

# DISCOVERY



## Electrical troubleshooting manual

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Elektrische diagnoseprocedure—handboek

Manuel de dépannage électrique

Handbuch zur Fehlersuche bei elektrischen Bauteilen

Manuale per l'individuazione dei guasti elettrici

Manual de localización de averías eléctricas

Manual de diagnóstico de averías eléctricas



## DISCOVERY



## 1997 Model

### Contents

<i><b>Section Title</b></i>	
i	Introduction
A1	Multipoint Fuel Injection (MFI-V8)
A2	Multipoint Fuel Injection (MFI-T16)
A4	300Tdi
A5	300Tdi Glow Plug Control
B1	Starting and Charging
B5	Cruise Control
C1	Ignition and Shift Interlock
D1	Anti-Lock Brake System
D3	Data Link Connector
E1	Instruments
E2	Warnings and Indicators
E5	Horns
E6	Radio (except Japan)
E7	Radio (Japan)
F1	Front Wipe/Wash
F3	Rear Wipe/Wash
F6	Heated Front Screen
F8	Heated Rear Screen and Mirror Demisters
G1	Electrochromic Rear View Mirror
G4	Multi-Function Unit (MFU)
H1	Headlamps (except Japan)
H2	Headlamps (Japan)
H3	Headlamp Levelling
H4	Side Lamps
H5	Stop Lamps
H6	Direction Indicator Lamps
H7	Reversing Lamps
H9	Fog Guard Lamps
J1	Interior Lamps
J2	Cigar Lighter/Clock
K1	Blower Controls
K2	Compressor Controls
K5	Cooling Fans
L1	Power Windows
L4	Sunroof
L6	Central Locking (except Japan)
L7	Central Locking (Japan)
M1	Power Seats
M2	Heated Seats
M3	Power mirrors
P1	Trailer Auxiliary Socket
T1	Theft Alarm System
Y1	Power Distribution
Y2	Fuse Details
Y5	Ground Distribution
Z4	Component Location Table
Z5	Component Location Views
Z6	Connector Views
Z8	Harness Routing
Z9	Index

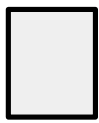
Published by Land Rover

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Publication Part No LRL0077ENG (4th Edition)

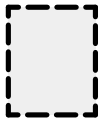


**CIRCUIT DIAGRAMS**

- Circuit diagrams are arranged so that current flow is from the top of the diagram (current source) to the bottom of the diagram (ground).
- Only those components that work together in the circuit are shown. If only part of a component is used in the circuit, then only that part of the component is shown.
- Remember:



Entire component



Part of a component

**TERMINAL NUMBER****DESIGNATION**

50	Battery voltage: Ignition Switch in position III
30	Battery voltage: supplied constantly
15	Battery voltage: Ignition Switch in position II or III
R	Battery voltage: Ignition Switch in positions I, II
31	Ground

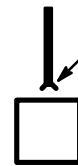
See Introduction (i) for additional circuit diagram symbols.

**DIAGNOSIS**

- If the diagram is accompanied by text:
  - Read the Circuit Operation before proceeding with the electrical diagnosis.
  - Read the Troubleshooting Hints before performing the System Diagnosis.
  - Tests follow the System Diagnosis
  - When performing the System Diagnosis, be certain that all components disconnected in previous steps are reconnected unless otherwise directed.



Component is disconnected.  
Backprobe harness connector



Component is connected.  
Backprobe harness connector



Component is disconnected.  
Probe component



Component is disconnected.  
Probe harness connector



Probe in-line connector

## INTRODUCTION

This manual is intended for use by trained Land Rover technicians as an aid to diagnosing electrical concerns.

This manual is organized into sections. Most sections contain circuit diagrams. Each section has a unique alpha–numeric code that will normally remain the same from year to year. For example, the Headlights circuit is in Section H1, with the first page of the section numbered H1–1. The following pages of this section will be numbered H1–2, H1–3, H1–4, etc. The manual does not contain any information concerning removal, refit or overhaul of electrical components or harnesses. These details are contained in the Workshop Manual. The following information forms the basis of the troubleshooting routines:

- Circuit Diagrams
- System Diagnosis Flow Charts
- Component Location Table
- Component Locations Views

Additional information, such as Circuit Operation, is also contained in the manual to aid in your understanding of how the different circuits operate.

## DESCRIPTION OF MANUAL

### Circuit Operation and Diagram

The Circuit Operation information at the beginning of the section will give you an overview of how the circuit works.

The Circuit Diagrams should always be your starting point in using this Electrical Troubleshooting Manual. The diagram shows the electrical current paths when a circuit is operating properly. It is essential to understand how a circuit should work before trying to figure out why it doesn't. Diagrams are shown with the Ignition Switch in the OFF position and other switches in the OFF or 'at rest' position.

Notes are provided after certain switches to clarify switch positions. Abbreviations found in the notes are explained in the Abbreviation Table found in the SYMBOLS section of this chapter.

Circuit Diagrams (schematics) break the entire electrical system into individual circuits. Electrical components that work together are shown together.

Each diagram is arranged so current flows from positive, at the top of the page, to ground, at the

bottom of the page. The 'power' labels at the top of a fuse show when the Battery, Main Light Switch, or Ignition Switch supplies power to that fuse.

Wires that connect to another circuit are shown with an arrowhead pointing in the direction of current flow. The name of the circuit that shares the wiring is provided for reference.

Wire Colour charts are no longer provided on each circuit page. One chart is provided in the SYMBOLS section of this chapter.

'See Fuse Details' means there are more connections to other circuits that are not shown. All such shared circuits are shown on the Fuse Details diagrams. 'See Ground Distribution' means there are more shared ground circuits which are shown on the Ground Distribution diagrams.

No attempt is made on the diagrams to represent components and wiring as they physically appear on the car. For example, a long length of wire is treated no differently in a diagram from one which is only a few centimetres long. The number of cavities for each connector is listed in the Component Location Table rather than illustrated. Similarly, switches and other components are shown as simply as possible, showing function only.

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**Power Distribution**

The Power Distribution diagrams are found in Section Y1. These diagrams show how voltage is supplied from the positive Battery terminal to the various circuits in the vehicle.

The individual Circuit Diagrams begin with a fuse or the Ignition Switch. Power Distribution shows the wiring from the Battery to the Fuse Boxes, the Ignition Switch, the Main Lighting Switch, and any circuit fuses not located in a Fuse Box.

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**Fuse Details**

The Fuse Details diagrams are found in Section Y2. These diagrams show all the wiring between each fuse in the Fuse Boxes and the components connected to the output of the fuse. The Fuse Details diagrams are extremely helpful in locating a short circuit that causes a fuse to blow. These diagrams also aid in troubleshooting an inoperative circuit by showing a second circuit using the same fuse. If the second circuit works, then the fuse and certain wires of the inoperative circuit are good.

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**Ground Distribution**

The Ground Distribution diagrams are found in Section Y5. These diagrams show which components share each ground point. This information can often be a timesaver when troubleshooting a poor ground.

For example, if the Fuel Pump does not run, you may suspect an open in its circuit to ground. However, if the Number Plate Lamps work, and they share the same ground point as the Fuel Pump, you know that the ground and the wire up to the common splice are good. You have learned this just by inspecting the diagram and knowing the vehicle's symptoms.

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**Connector Views**

Connector Views are provided in section Z6. All connectors with 2 terminals or more will be shown. Pin-out tables with the appropriate wire colours will also be shown.

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**Component Location Table**

A Component Location Table can be found in Section Z4. Except for the location of obvious components like the Left Headlight, the table lists the location of every component, connector and ground point depicted in the Circuit Diagrams. The table also gives references to Component Location Views located in Section Z5 and cross references to Workshop Manual remove and refit procedure sections. The number of cavities in each connector and the connector colour are also listed. Wires may not be used in all connector cavities.

## TROUBLESHOOTING TECHNIQUE

The following five–step troubleshooting procedure is recommended.

### 1. Verify the Problem

Check the operation of the circuit to be sure you understand the problem. Do not begin disassembly or testing until you have narrowed down the possible causes.

### 2. Analyze the Circuit Diagram (schematic)

Analyze the diagram. Check circuits that share the wiring with the problem circuit. The names of shared circuits are often given on each Circuit Diagram to aid troubleshooting. Shared power and ground circuits can be found in the Power and Ground Distribution sections. Try to operate the shared circuits. If these circuits work, then the shared wiring is OK. The cause must be within the wiring used only by the problem circuit. If several circuits fail at the same time, chances are the power (fuse) or ground circuit is faulty.

### 3. Find the Cause

- Narrow down the possible causes.
- Before you replace a component, check power, signal, and ground wires at the component harness connector.

### 4. Repair the Problem

Once the specific problem is identified, make the repair. Be sure to use the correct tools and safe procedures.

### 5. Check the Repair

Check the operation of the repaired circuit in all modes to make sure you fixed the entire problem. If the problem was a blown fuse, be sure to test all of the circuits on that fuse. Make sure no new problems are present.

multimeter. Never use a test light on circuits that contain solid state devices. Damage to the device may result.

On circuits without solid state devices, a test light may be used to check for voltage. A test light is made up of a 12 volt bulb with a pair of leads attached. After grounding one lead, touch the other lead to various points along the circuit where voltage should be present. The bulb will come on if the voltage at the point being tested is greater than 5 volts.

## TEST EQUIPMENT

Where applicable, Land Rover– recommended testers should be used.

### Voltmeter and Test Light

Use a voltmeter or test light to check for voltage. While a test light shows whether or not voltage is present, a voltmeter indicates how much voltage there is.

**CAUTION:** A number of circuits include solid state devices. Voltages in these circuits should be tested only with a 10 megohm or higher impedance digital

### Self-powered Test Light and Ohmmeter

Use a self-powered test light or ohmmeter to check for continuity. The ohmmeter shows how much resistance there is between two points along a circuit. Low resistance means good continuity.

**CAUTION:** Never use a self-powered test light on circuits that contain solid state devices. Damage to these devices may result.

Diodes and solid state devices in a circuit can make an ohmmeter give a false reading. To find out if a component is affecting a measurement, take one reading, reverse the leads, and take a second reading. If the readings differ, the component is affecting the measurement.

Circuits that contain solid state devices should only be tested with a 10 megohm or higher impedance digital multimeter.

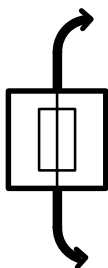
A self-powered test light consists of a light bulb, battery and two leads. If the leads are touched together, the bulb will go on.

A self-powered test light is only used on an unpowered circuit. First, disconnect the battery or remove the fuse that feeds the circuit you are working on. Select two points along the circuit through which there should be continuity. Connect one lead of the self-powered test light to each point. If there is continuity, the test light's circuit will be completed and the bulb will go on.

### Fused Jumper Wire

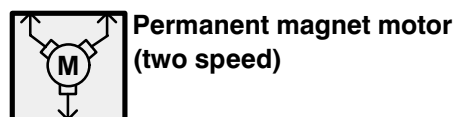
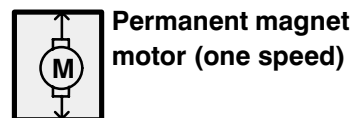
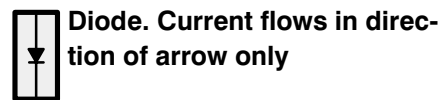
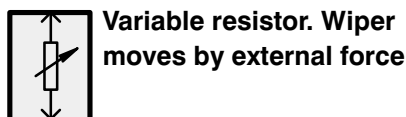
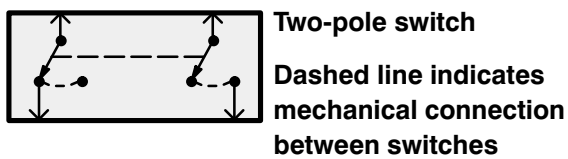
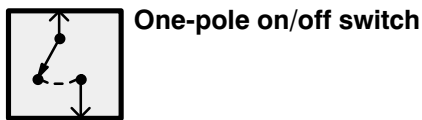
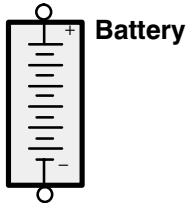
Use a fused jumper wire to bypass an open circuit. A fuse jumper wire is made up of an in-line fuse holder connected to a set of test leads. Never use a jumper wire across any load. This direct battery short will blow the fuse.

The following symbol represents a fused jumper:

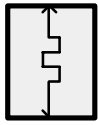


**SYMBOLS**

The abbreviations and symbols explained here are used throughout the manual; it is necessary to know what they mean in order to use the diagrams effectively.



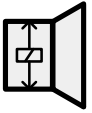




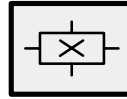
Heating Element



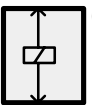
Antenna



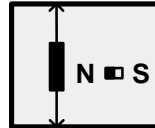
Loudspeaker or horn



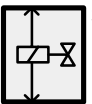
Hall Effect Sensor



Coil



Hall Effect Sensor

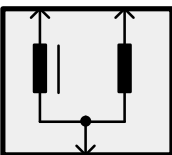


Solenoid

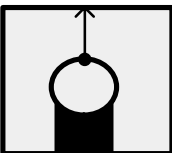


Relay

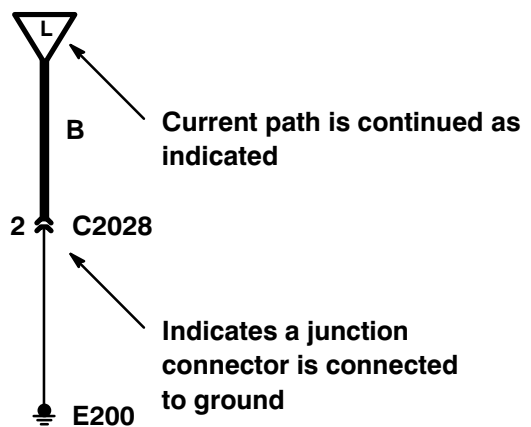
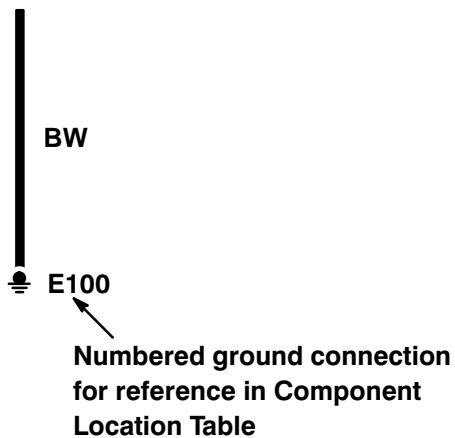
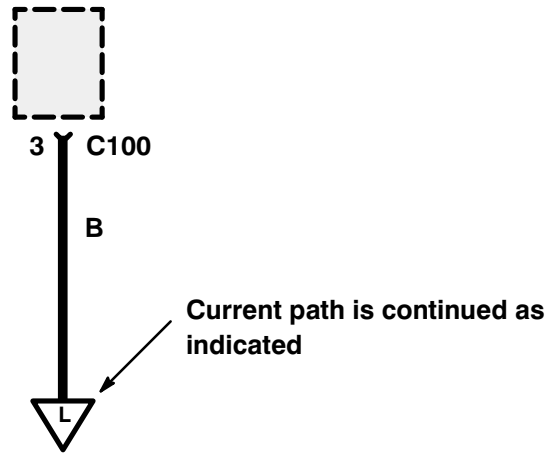
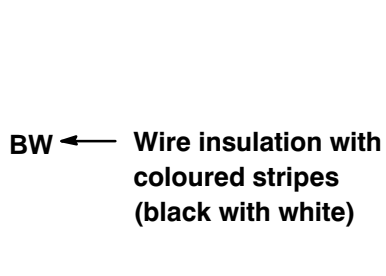
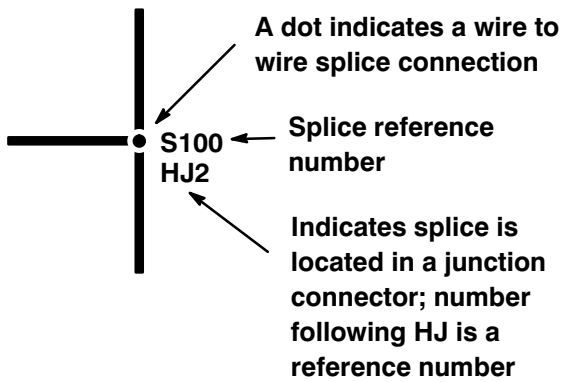
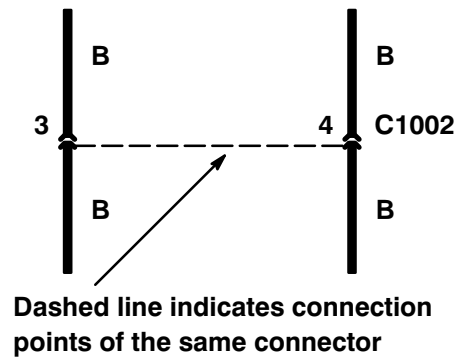
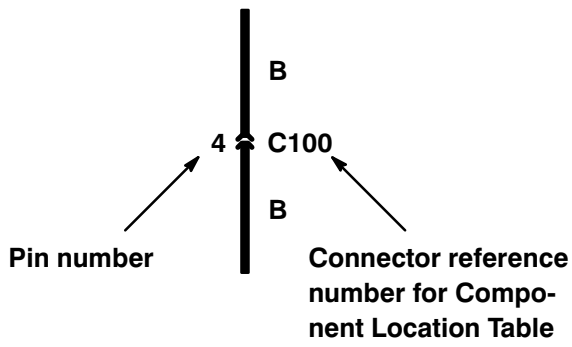
Switch is drawn into the closed position when current flows through coil

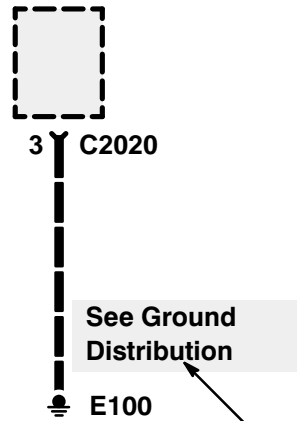
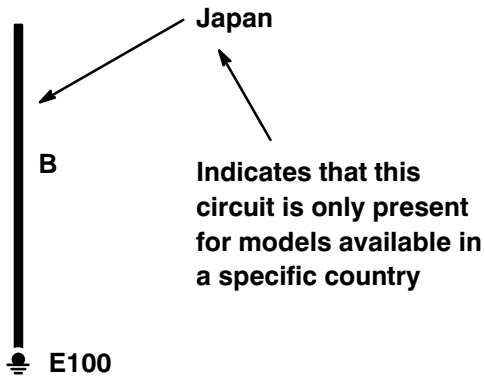
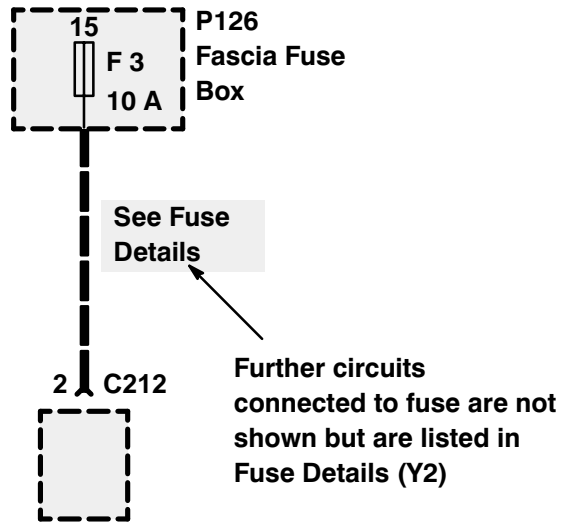
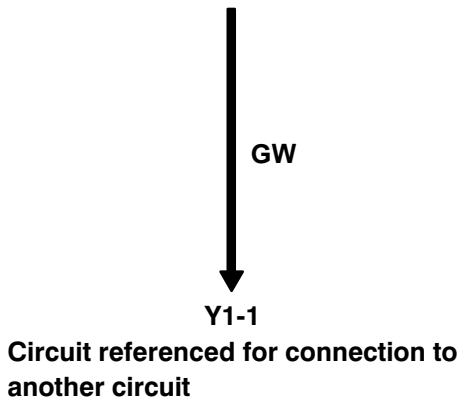


Ignition Coil

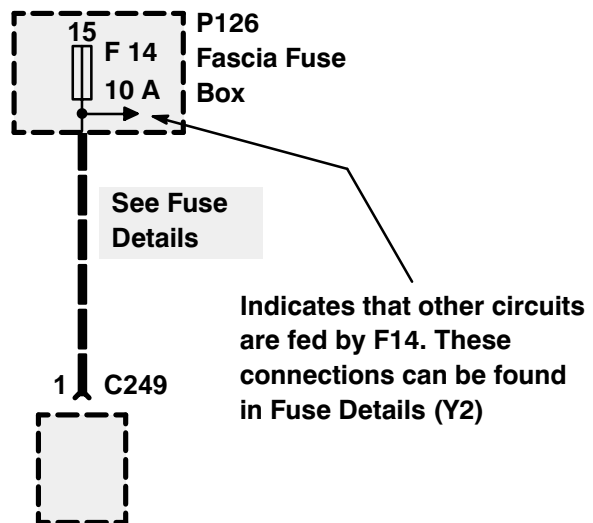
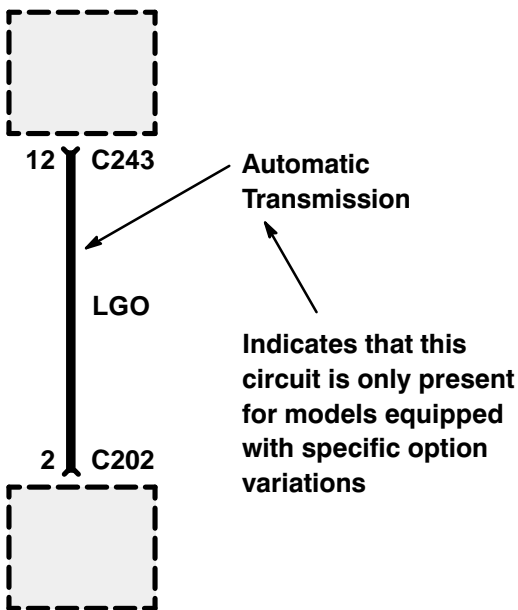


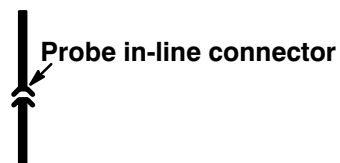
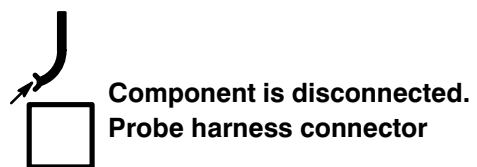
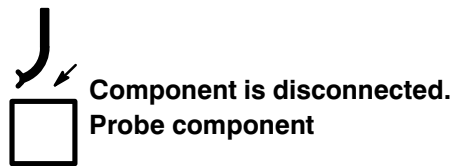
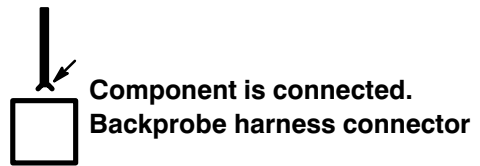
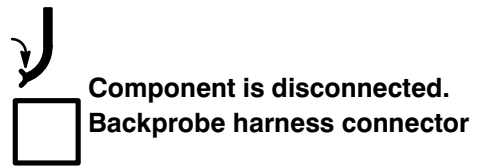
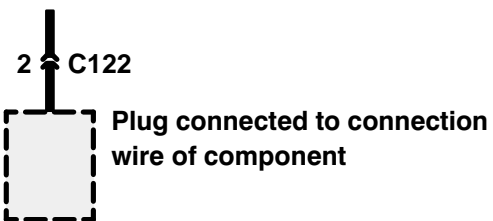
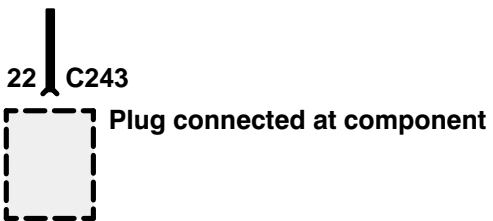
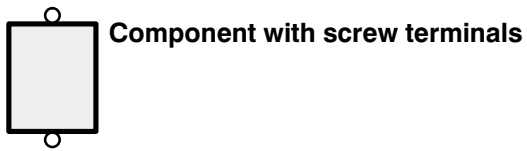
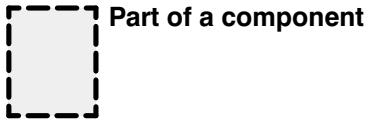
Steering Column  
Horn Brush/  
Slip Ring

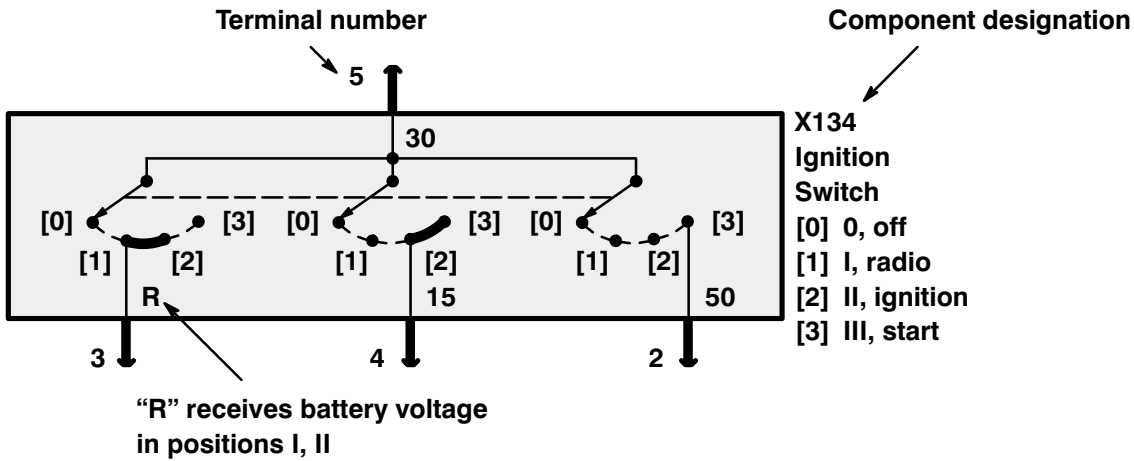




Further circuits connected at ground are not shown but are listed under Ground Distribution







Terminal number	Designation	Terminal number	Designation
50	Battery voltage: Ignition Switch in position III	X	Switched battery voltage through the ignition load relay or accessory relay; ignition switch is in position I or II.
30	Battery voltage: supplied constantly	49	Flasher unit input
15	Battery voltage: Ignition Switch in position II or III	49a	Flasher unit output
R	Battery voltage: Ignition Switch in positions I, II	50	Start
31	Ground	56	Headlamp
		56a	High beam
		56b	Low beam
		56d	Headlamp flash
		58	Side lamps
		85	End of relay coil
		86	Start of relay coil
		87	Relay contact
		87a	Relay contact

**Definition of Vehicle Component Codes**

All components are identified by a letter followed by an arbitrary number assigned to the component. The letter assigned to the component indicates the type of component.

<b>B</b>	<b>Bulbs, Heated Screens, Mirror Demisters, Cigar Lighters, and Heated Washer Jets</b>
<b>K</b>	<b>Relays, Solenoids, Speakers, and Resistors</b>
<b>M</b>	<b>Motors</b>
<b>P</b>	<b>Fuse Boxes and Fusible Links</b>
<b>X</b>	<b>Switches and Sensors</b>
<b>Z</b>	<b>Electronic Control Units, Modules, Shields, Diodes, and Capacitors</b>

**Wire Colours**

All wires are identified by letters which indicate a certain colour. Wire colour and size will only be shown once if it does not change throughout the circuit. The following chart explains the wire colour abbreviations.

**Wire Colour Chart**

<b>B - Black</b>	<b>P - Purple</b>
<b>G - Green</b>	<b>R - Red</b>
<b>K - Pink</b>	<b>S - Grey</b>
<b>L - Light</b>	<b>U - Blue</b>
<b>N - Brown</b>	<b>W - White</b>
<b>O - Orange</b>	<b>Y - Yellow</b>

**Previous and Next Arrows**

A schematic page which follows another schematic page of the same chapter will have an arrow in the upper left hand corner. There is no arrow on the first schematic page of a chapter. Schematic pages which are followed by another schematic page will have an arrow in the lower right hand corner. If the page is the last page of the chapter, there will be a square instead of an arrow.

**Page Qualifiers**

Schematic pages which are specific to certain model, option or country variations will have a small "Qualifier" after the Previous Arrow in the upper left-hand corner. For example, a section might contain pages specific to petrol engines and some pages specific to diesel engines. "Petrol" will be shown in the upper left hand corner of petrol specific pages, and "Diesel" will be shown in the upper left hand corner of diesel specific pages.

**Circuit Qualifiers**

Certain abbreviations are used throughout the Electrical Troubleshooting Manual as circuit qualifiers. The following list explains all abbreviations used as qualifiers in the Circuit Diagrams.

<b>ABS</b>	<b>Anti-Lock Braking System</b>
<b>LHD</b>	<b>Lefthand Drive</b>
<b>RHD</b>	<b>Righthand Drive</b>
<b>LWB</b>	<b>Long Wheel Base</b>
<b>SWB</b>	<b>Short Wheel Base</b>
<b>NAS</b>	<b>North American Countries</b>
<b>MFI-V8</b>	<b>Multiport Fuel Injection (MFI-V8)</b>
<b>MFI-T16</b>	<b>Multiport Fuel Injection (MFI-T16)</b>
<b>300 Tdi</b>	<b>Tdi Diesel</b>
<b>300 Tdi with EGR</b>	<b>Tdi Diesel with Exhaust Gas Recirculation (EGR)</b>
<b>300 Tdi without EGR</b>	<b>Tdi Diesel without Exhaust Gas Recirculation (EGR)</b>
<b>300 Tdi with EDC</b>	<b>Tdi Diesel with Electronic Diesel Control (EDC)</b>
<b>300 Tdi without EDC</b>	<b>Tdi Diesel without Electronic Diesel Control (EDC) (applies to Tdi Diesels with and without EGR)</b>
<b>SFI-V8</b>	<b>Sequential Multiport Fuel Injection (SFI-V8)</b>
<b>A/C</b>	<b>Air Conditioning</b>
<b>BBUS</b>	<b>Battery Backed Up Alarm Sounder (Z272)</b>

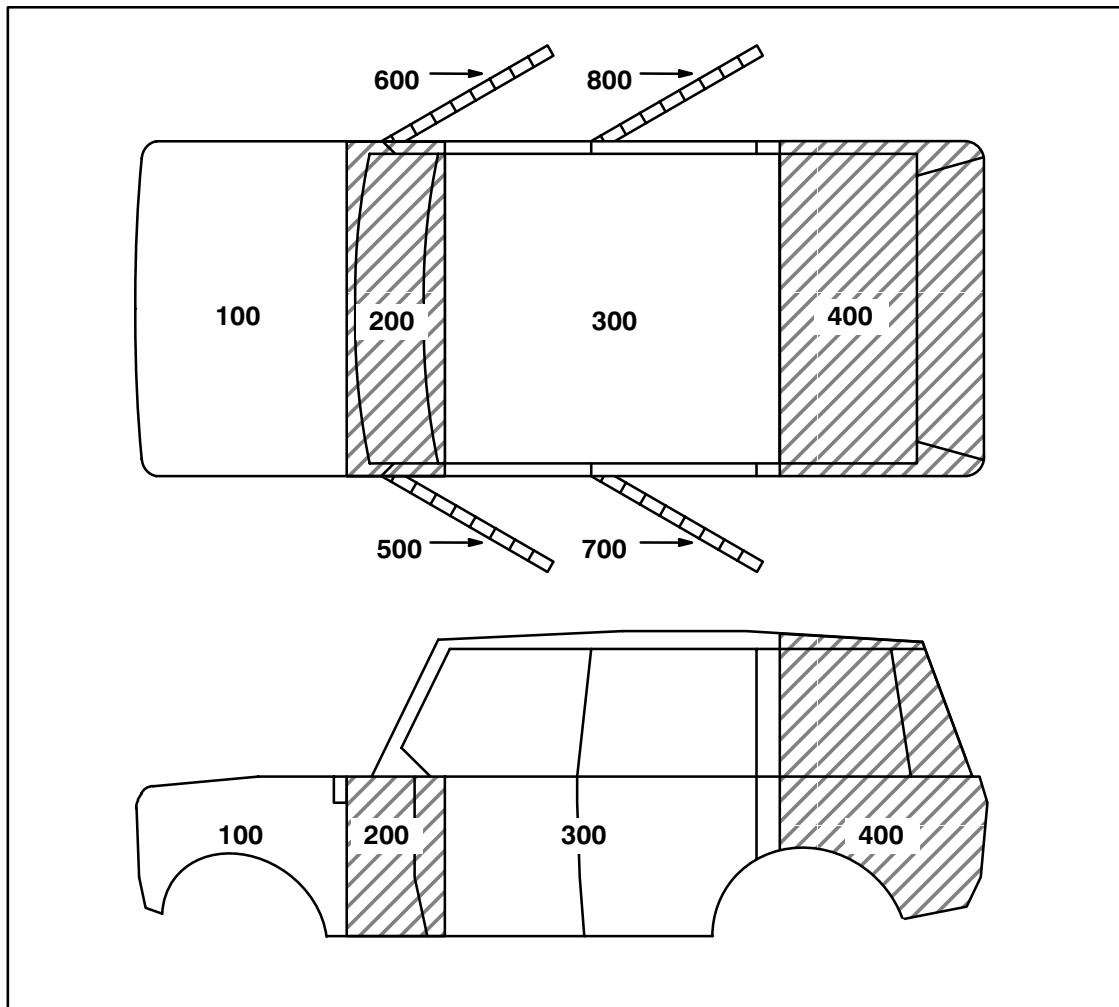
**Switch Positions**

Certain abbreviations are used throughout the Electrical Troubleshooting Manual as Switch Position notes. The following list explains all abbreviations used as Switch Position notes in the Circuit Diagrams.

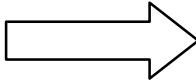
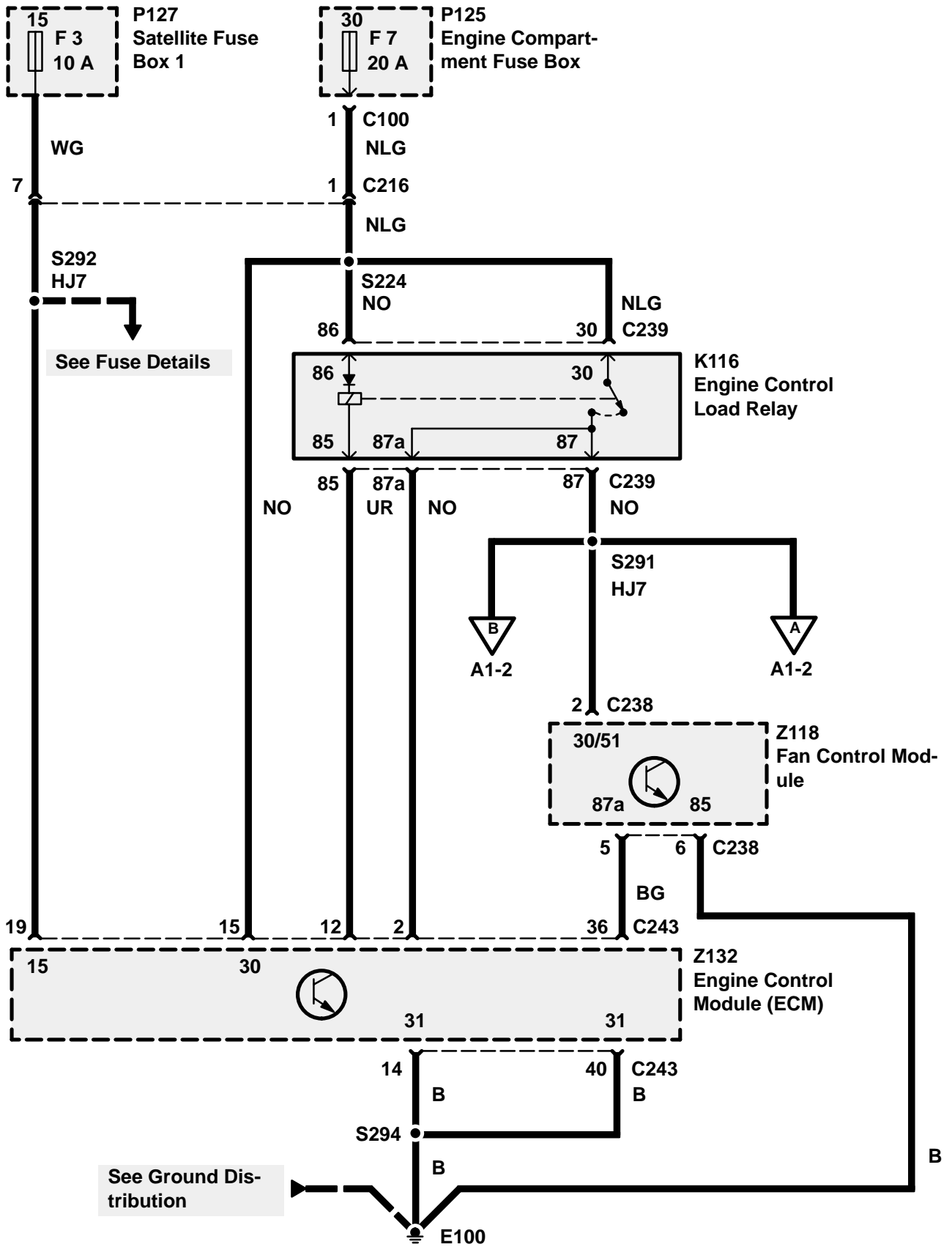
<b>&lt; 100°</b>	<b>Less than 100°</b>
<b>&gt; 100°</b>	<b>More than 100°</b>

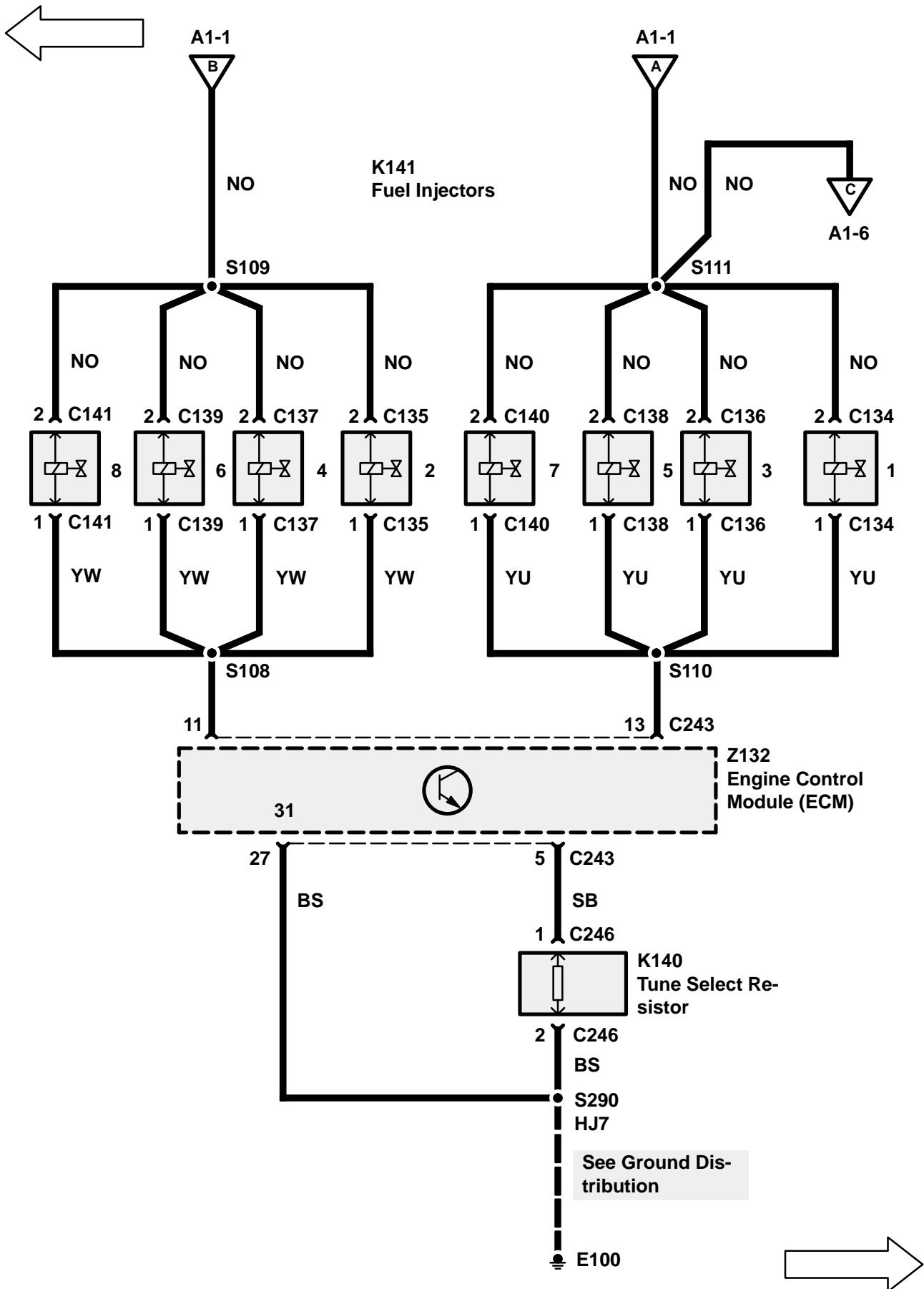
Connectors, Grounds, and Splices are identified by a letter followed by a number. Connectors are identified by C, grounds by E, and splices by S. Some splices are contained in junction connectors. These splices are identified by the prefix "HJ" below the splice's reference number. The number assigned to the connector, ground, or splice corresponds to its location in the vehicle.

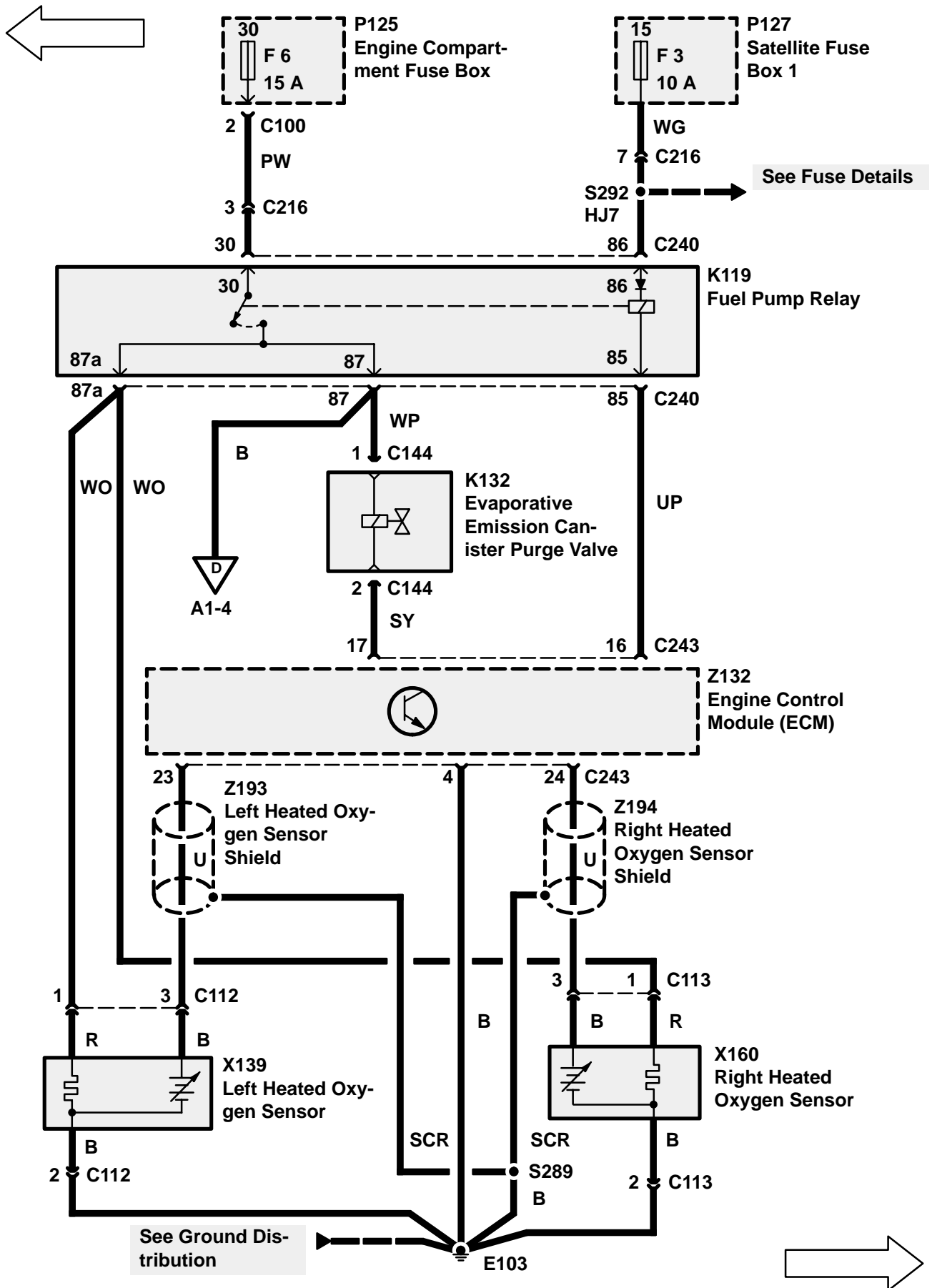
#### Connector, Ground, and Splice Identification by Location

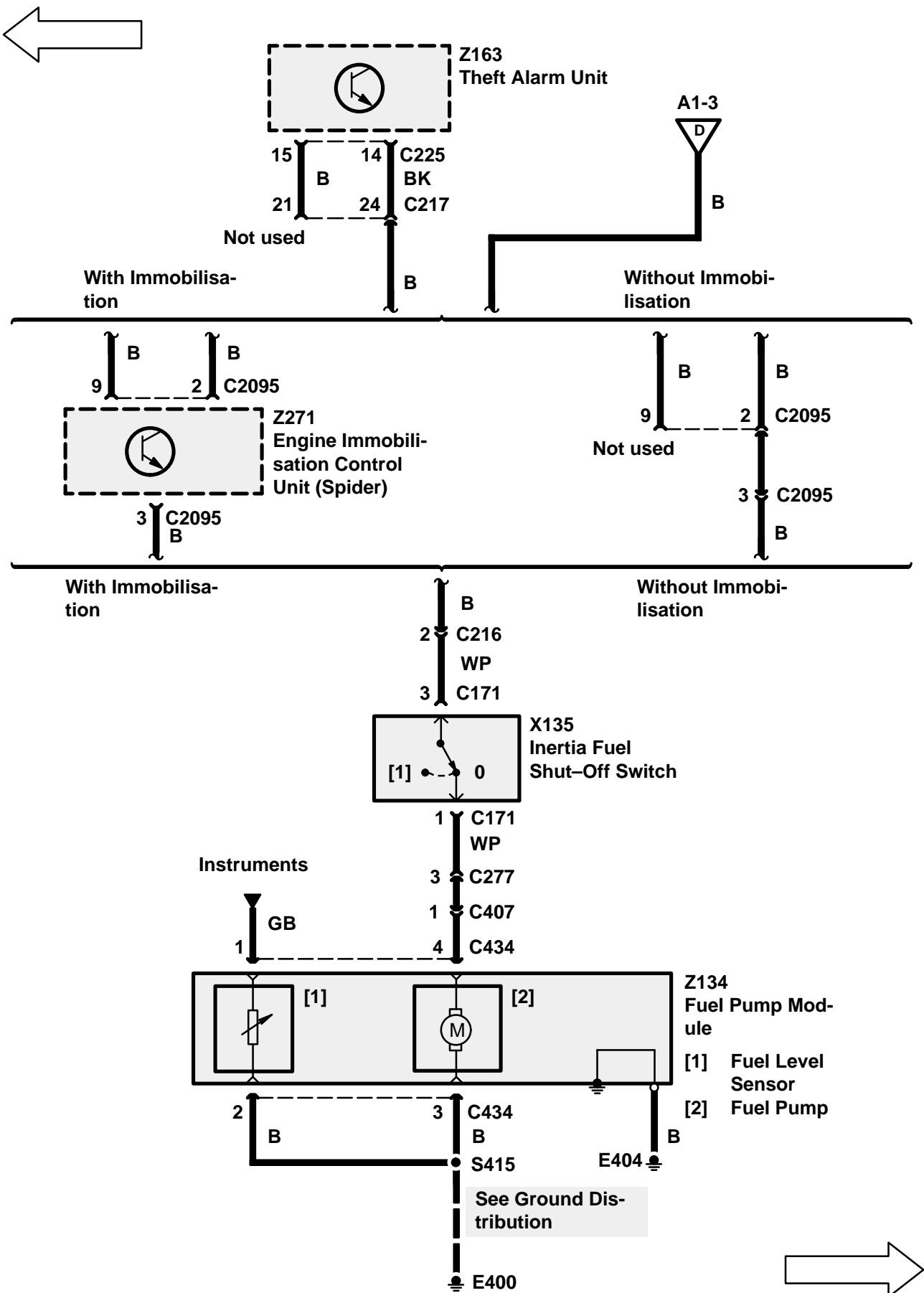


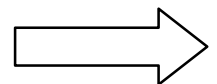
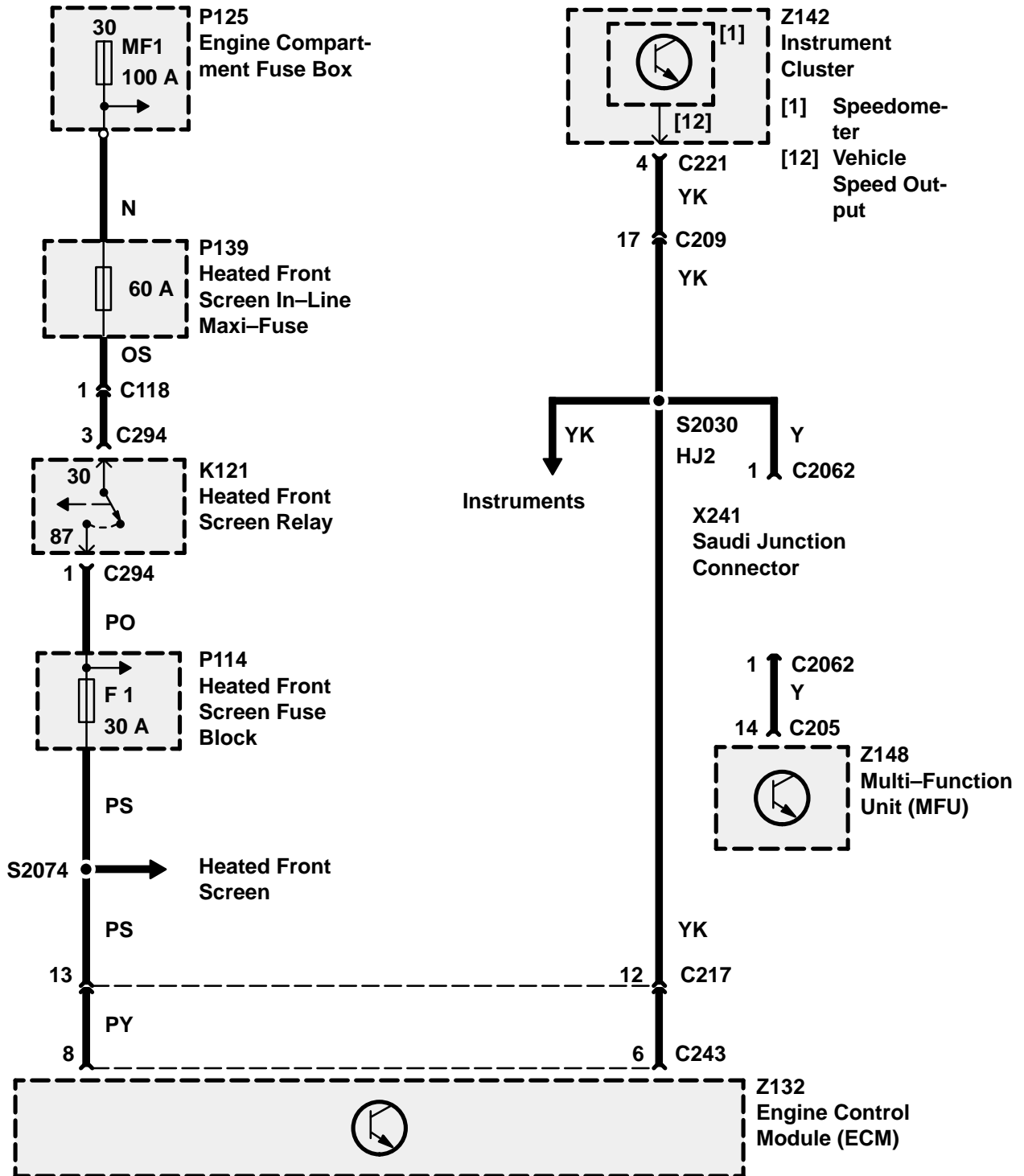
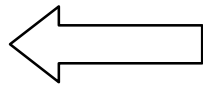


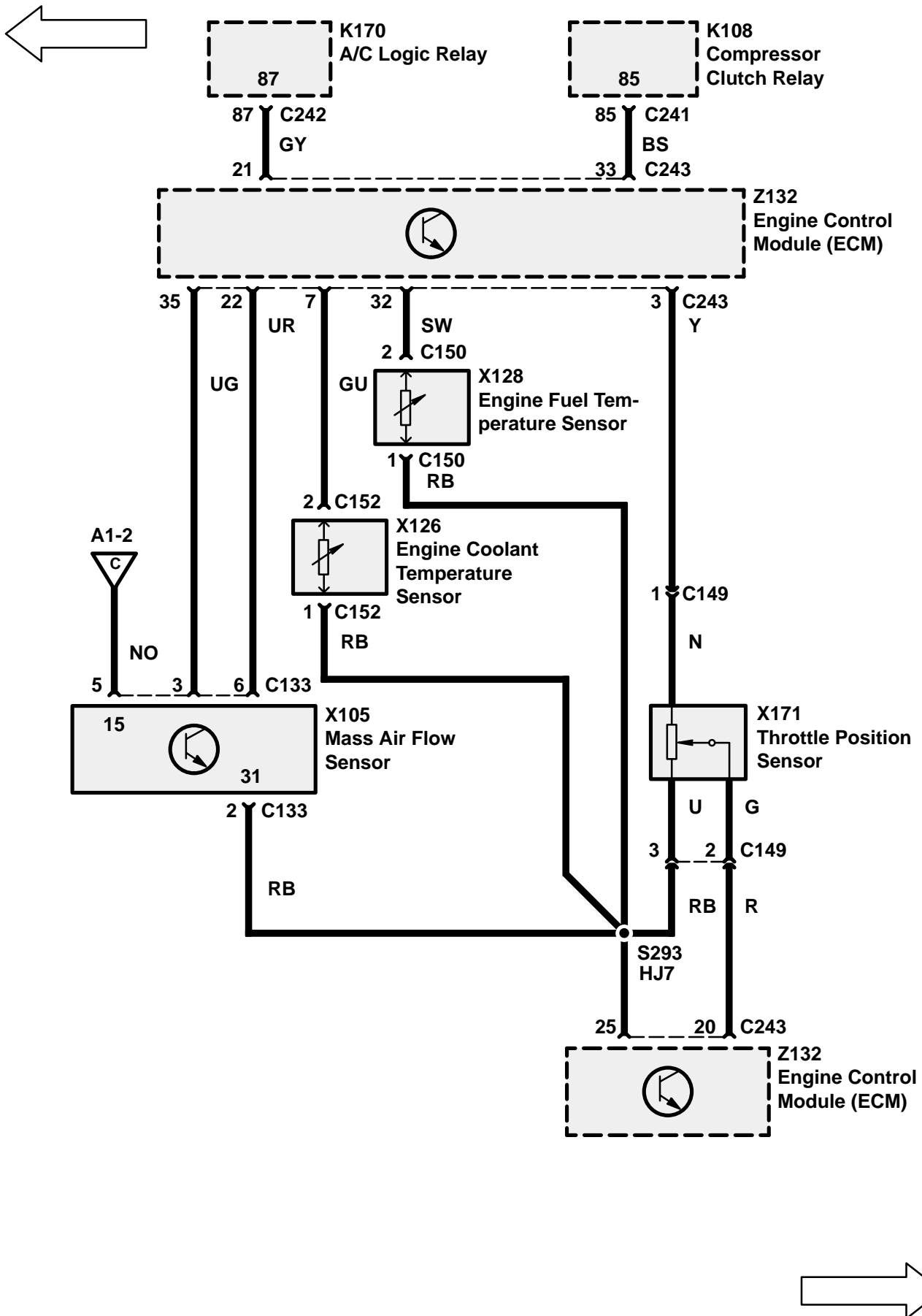


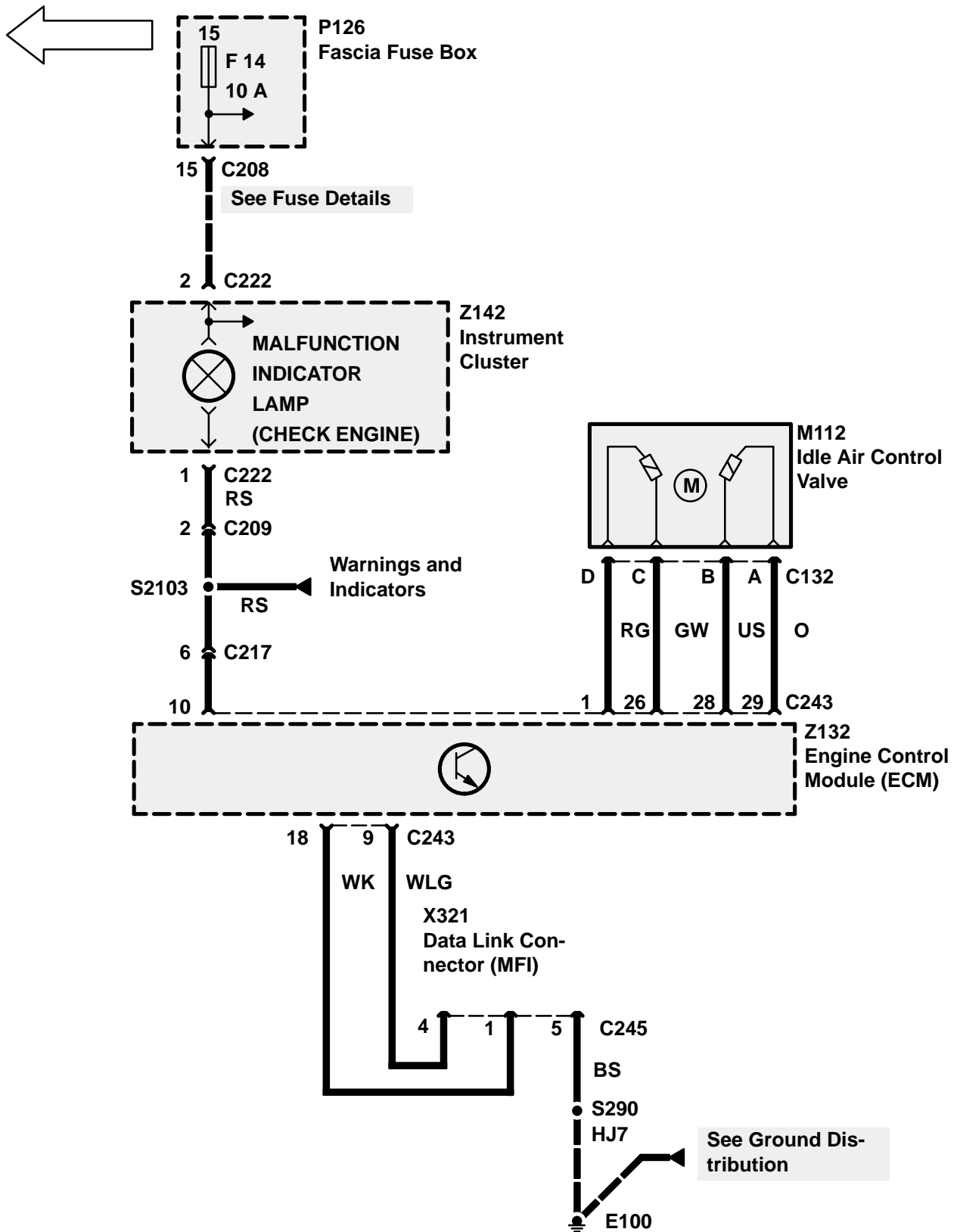


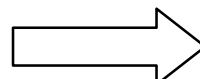
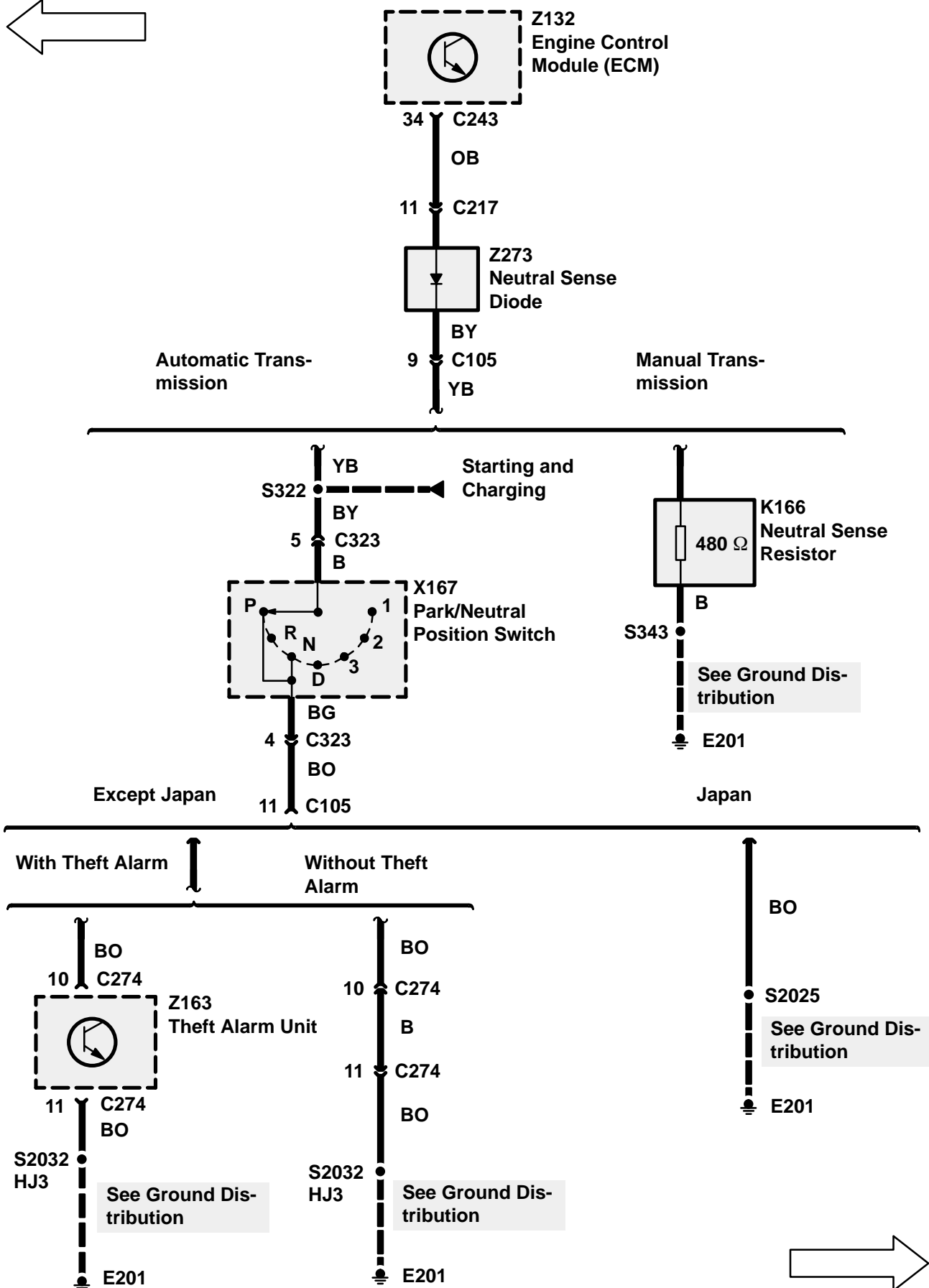
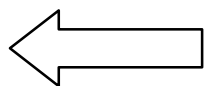




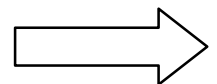
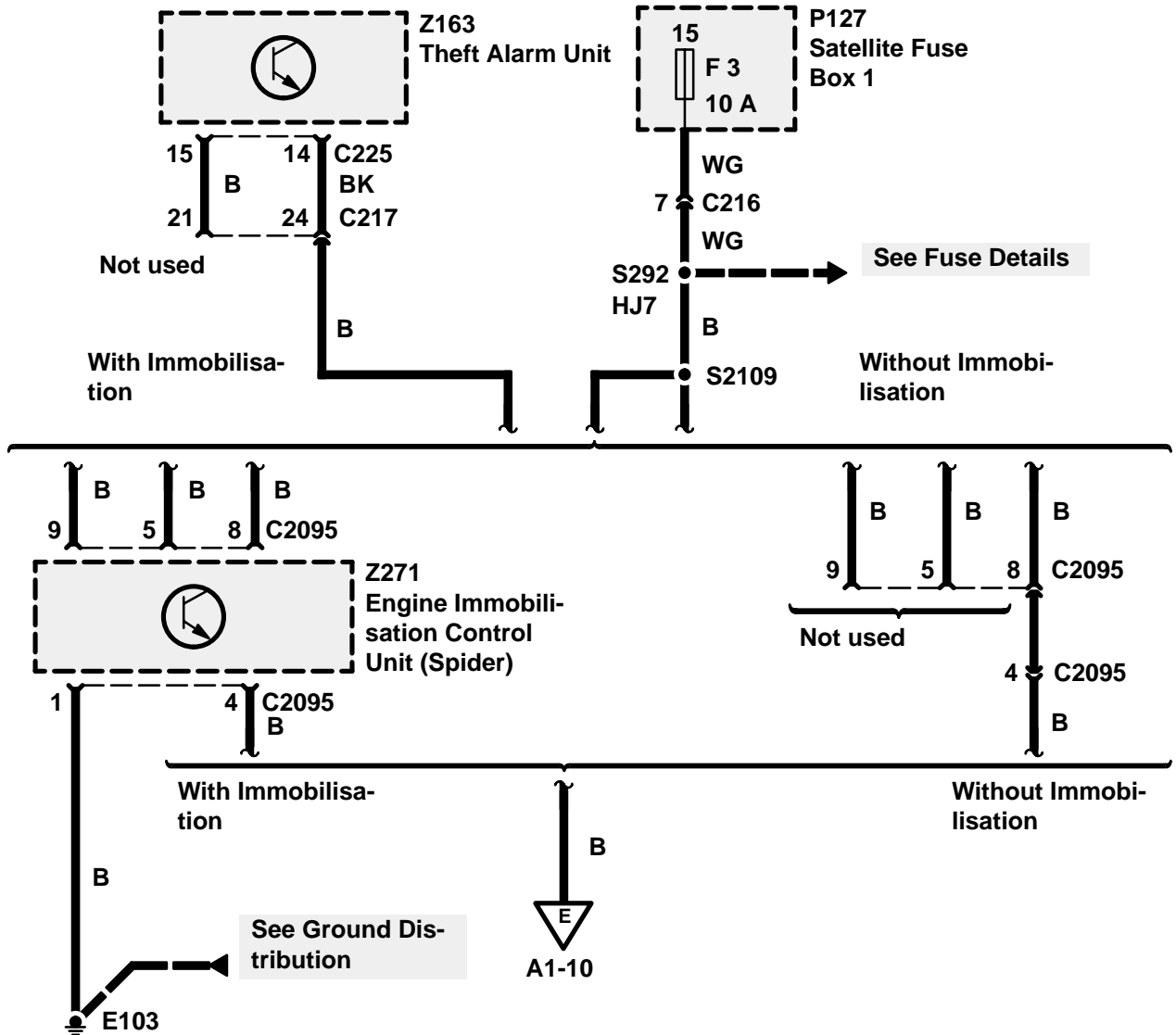
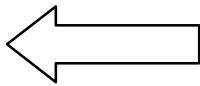


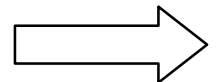
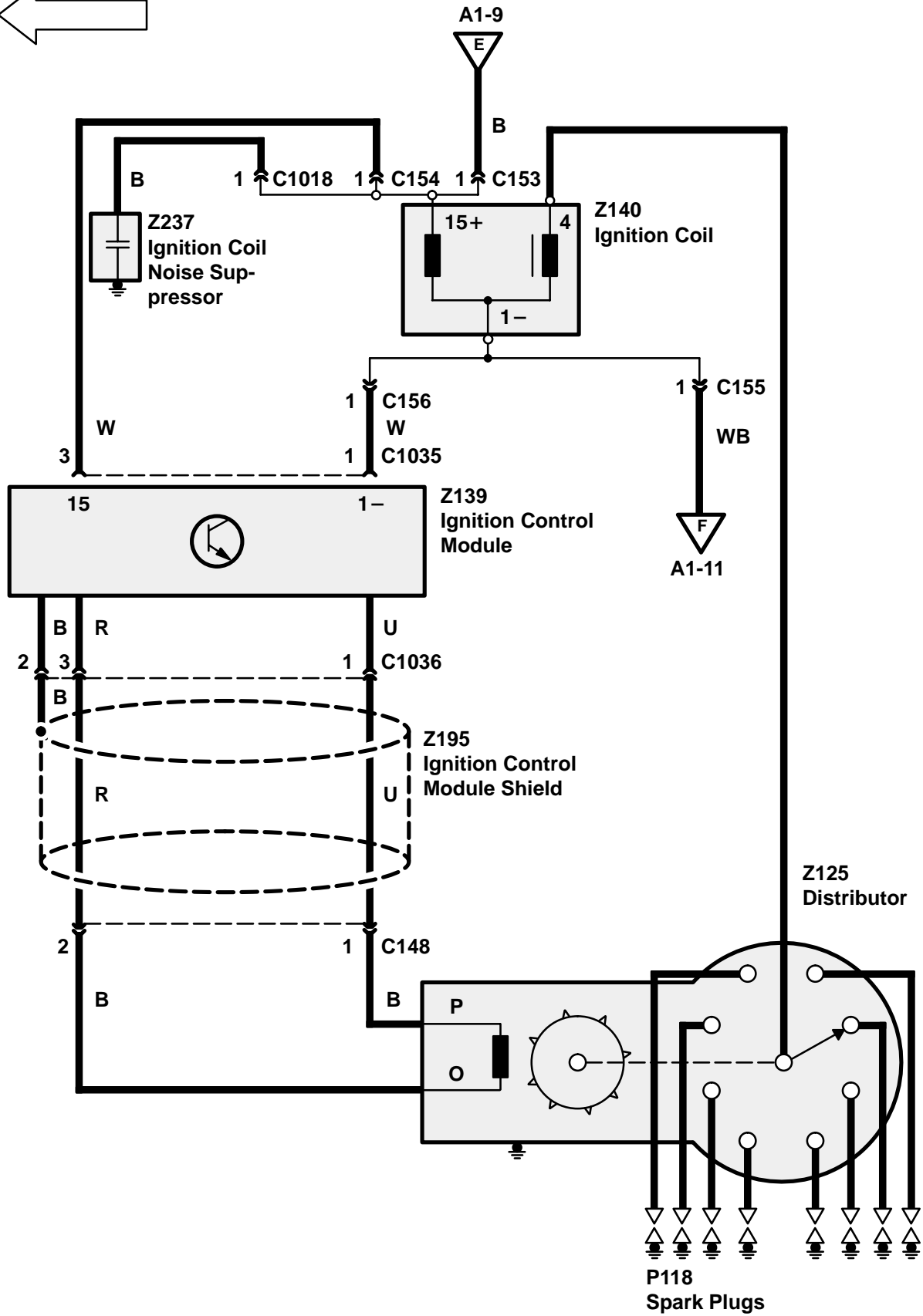
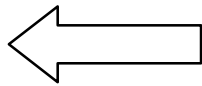


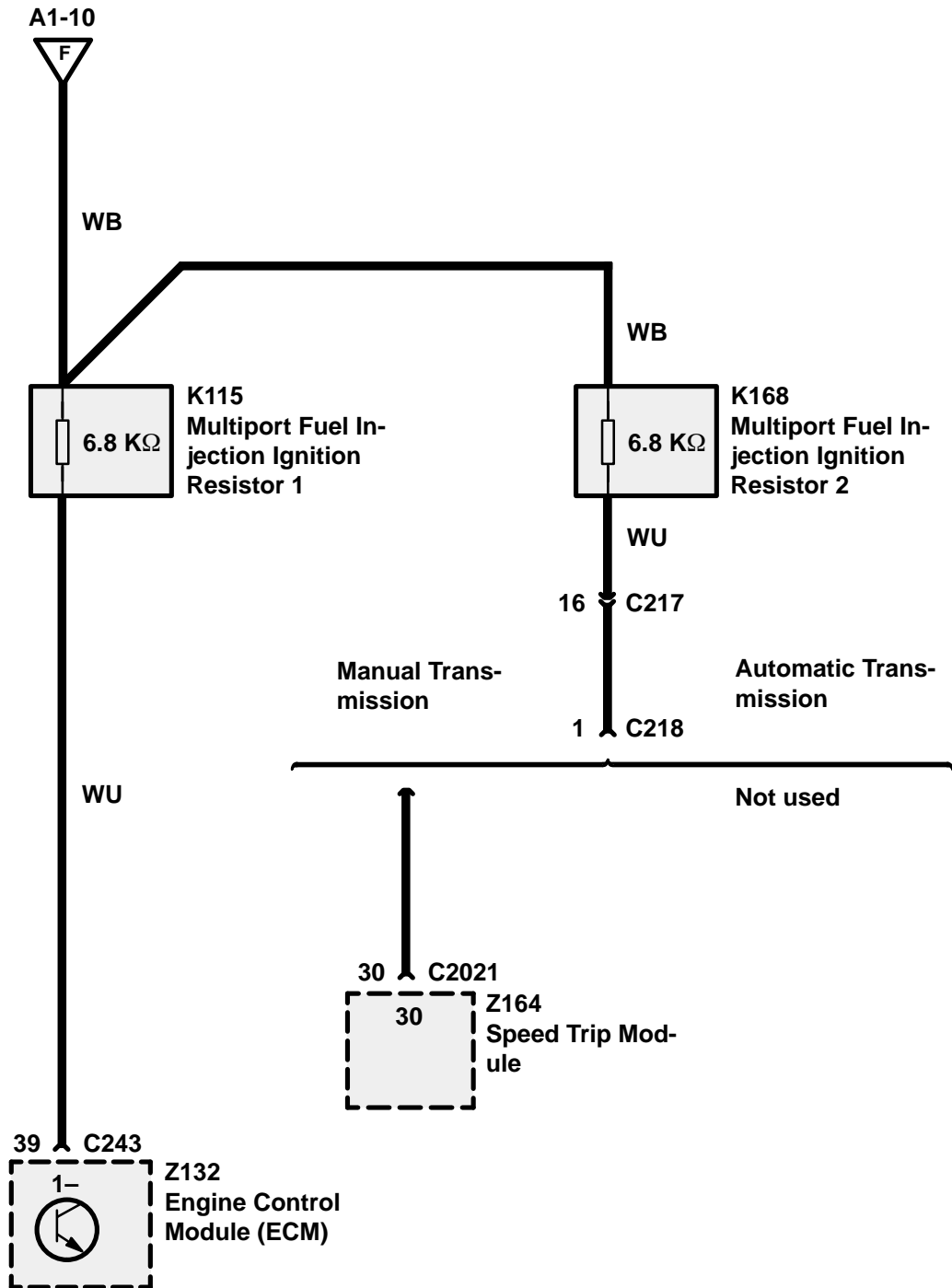
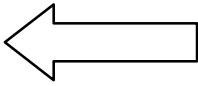


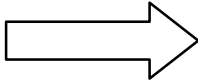
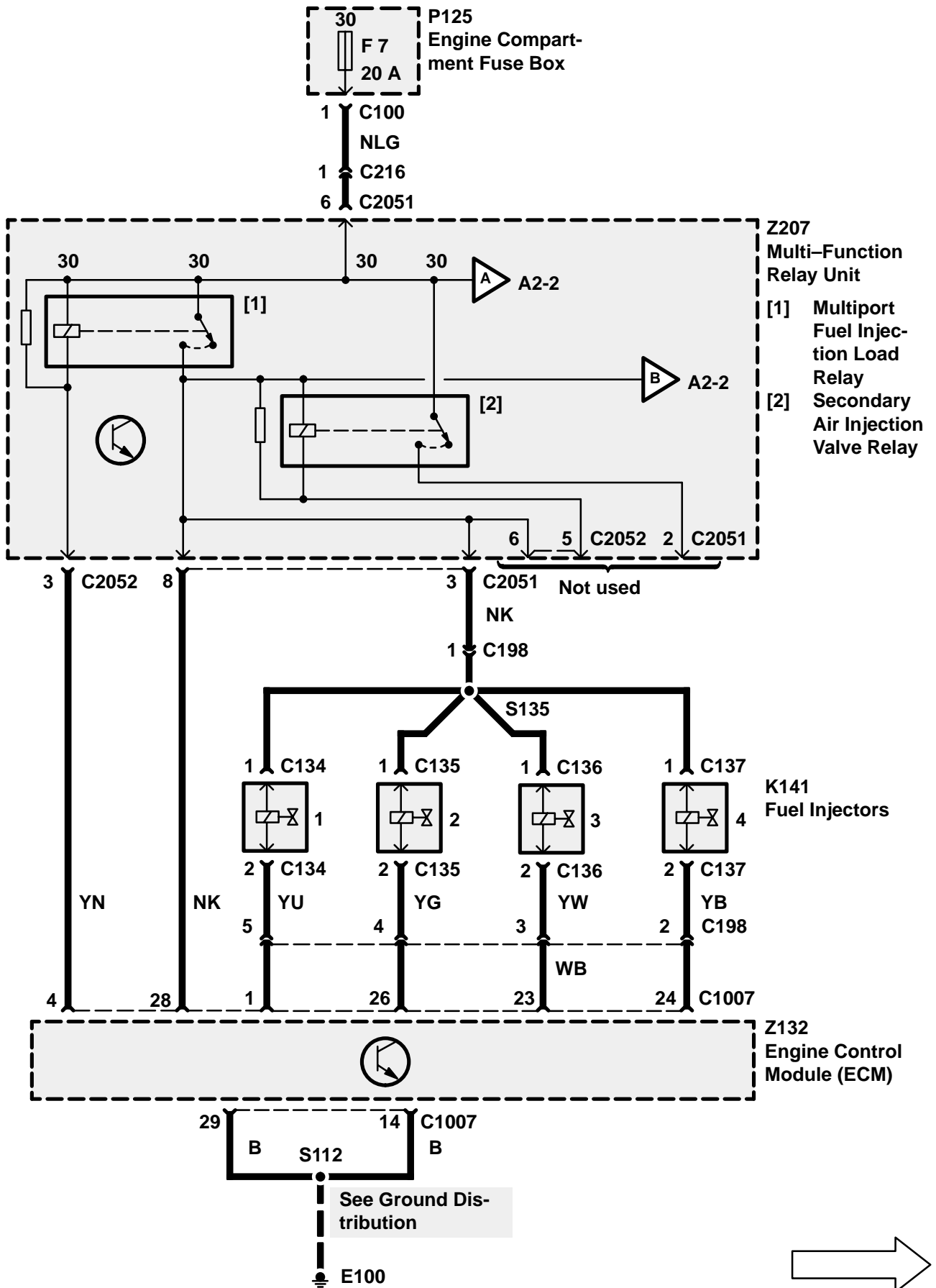


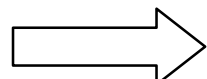
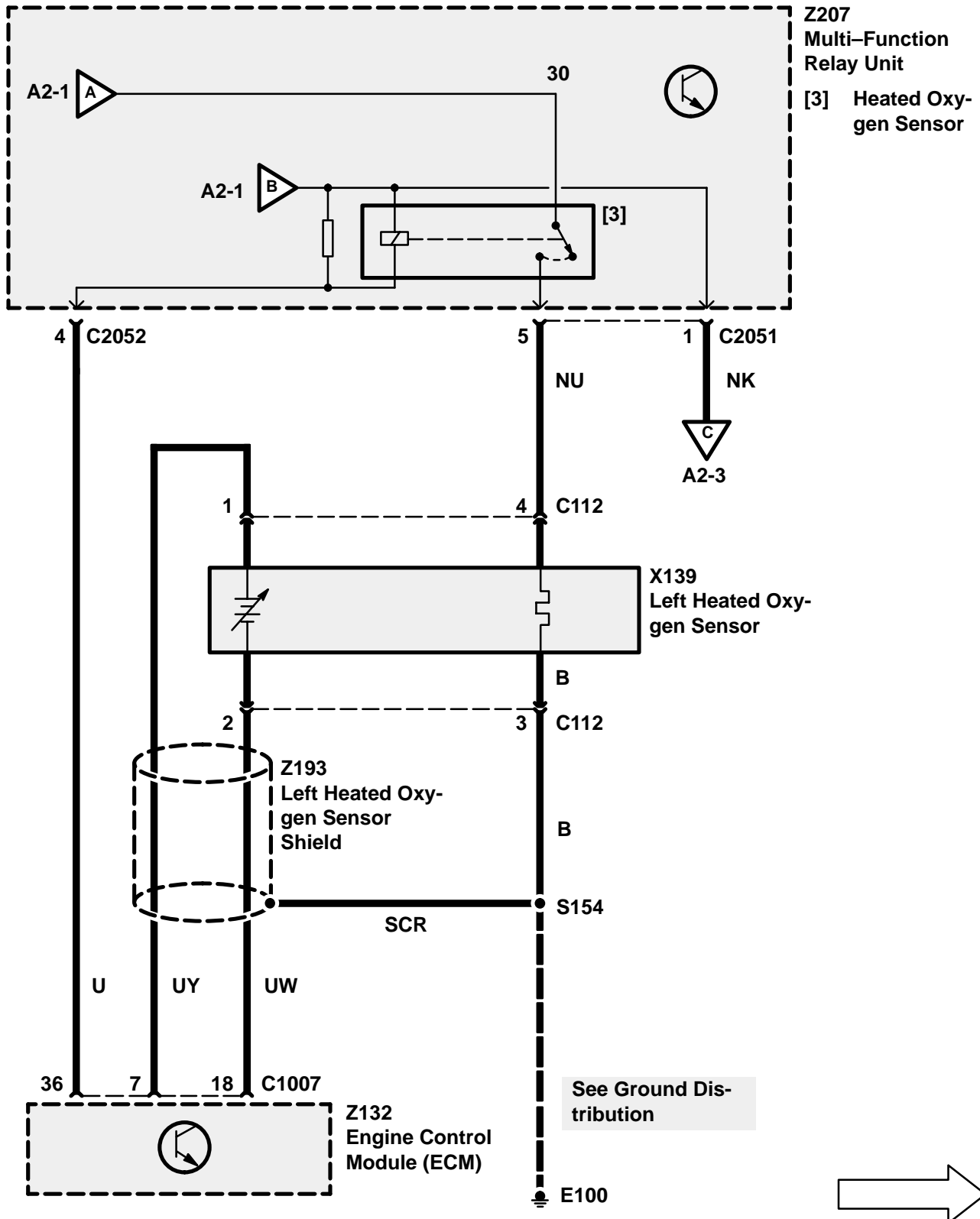
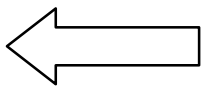


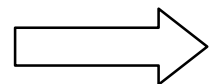
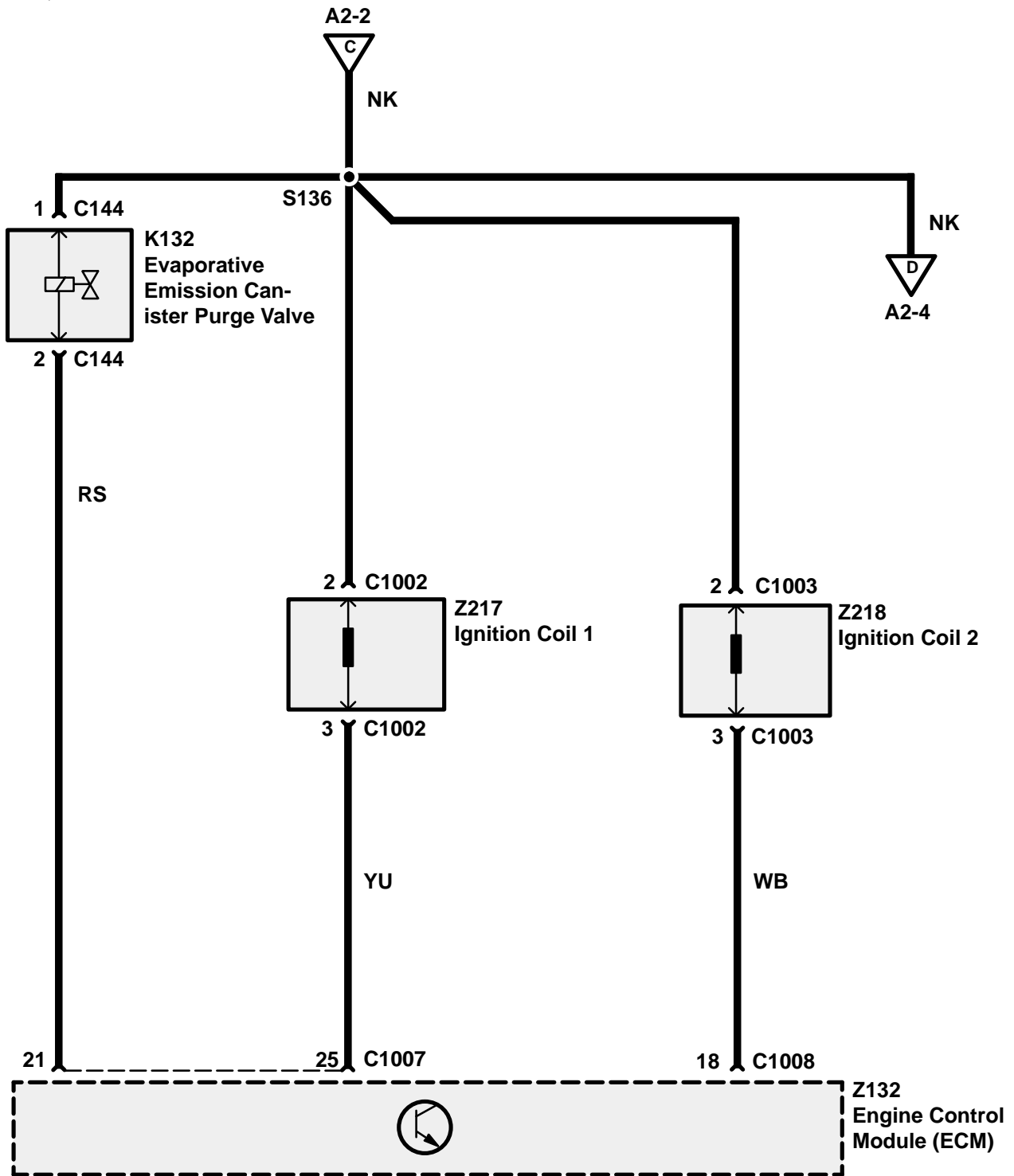
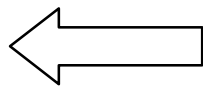


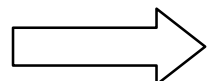
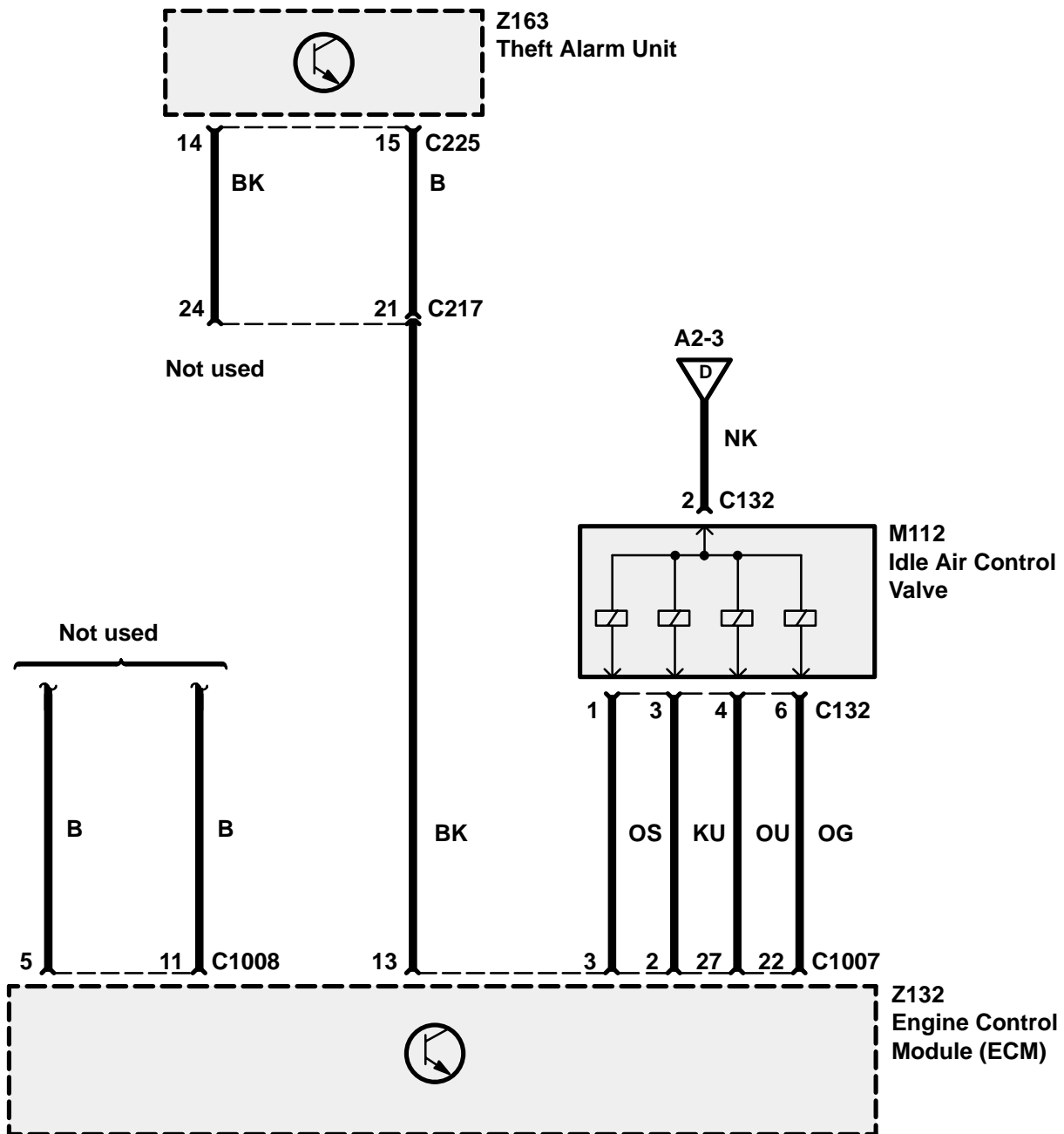
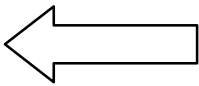


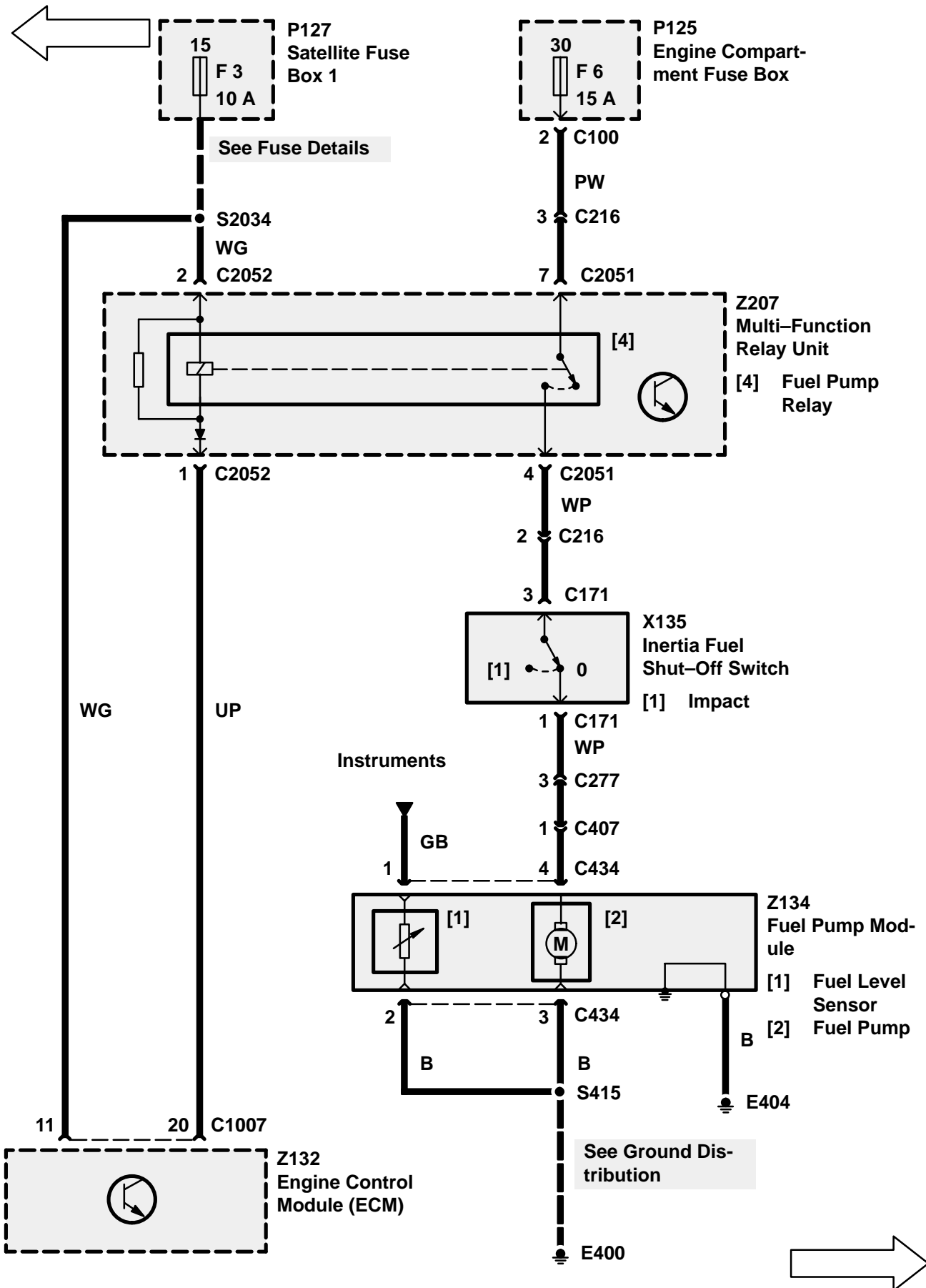




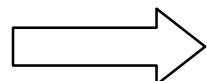
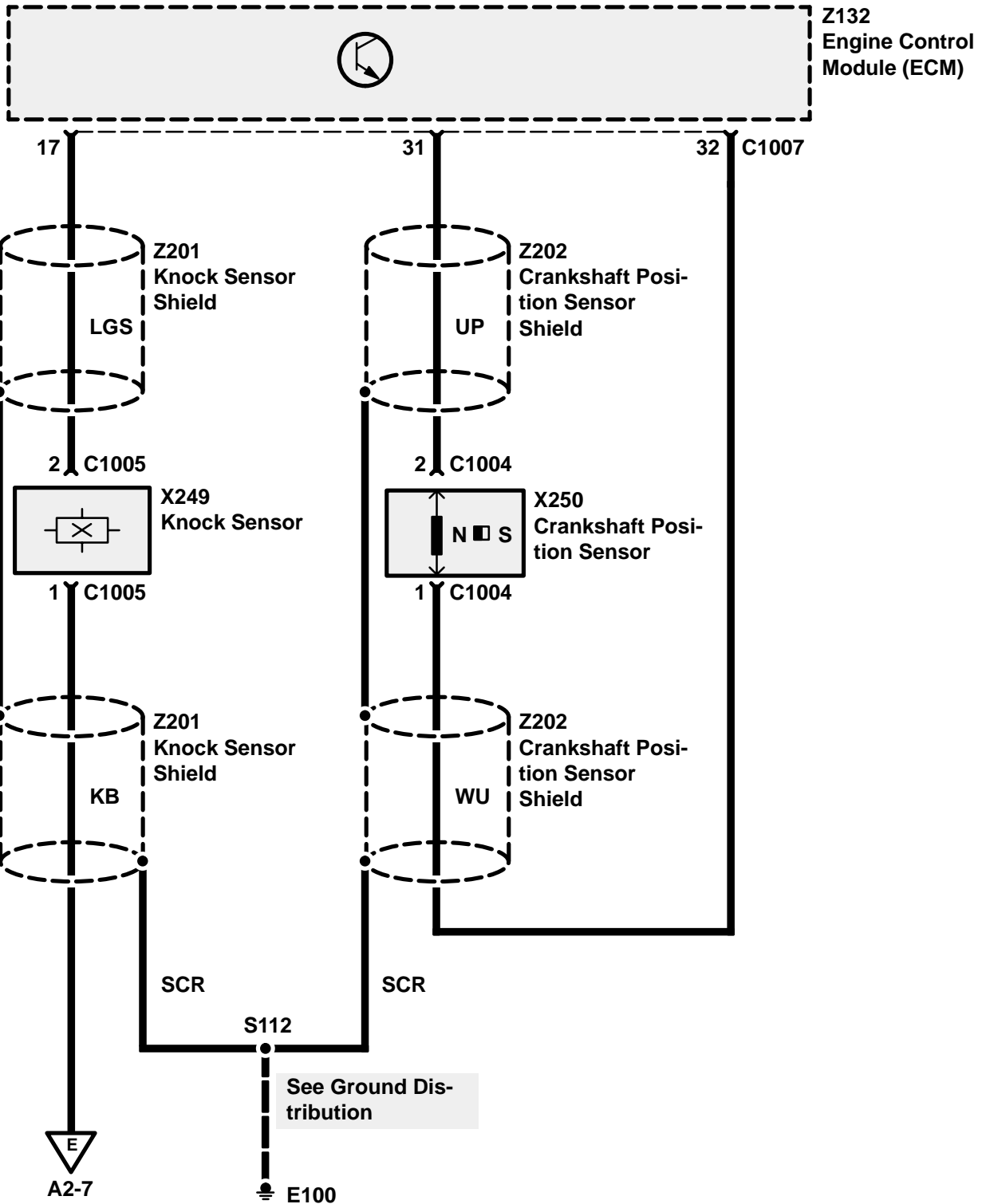
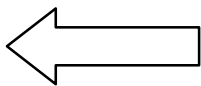


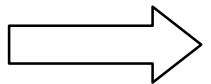
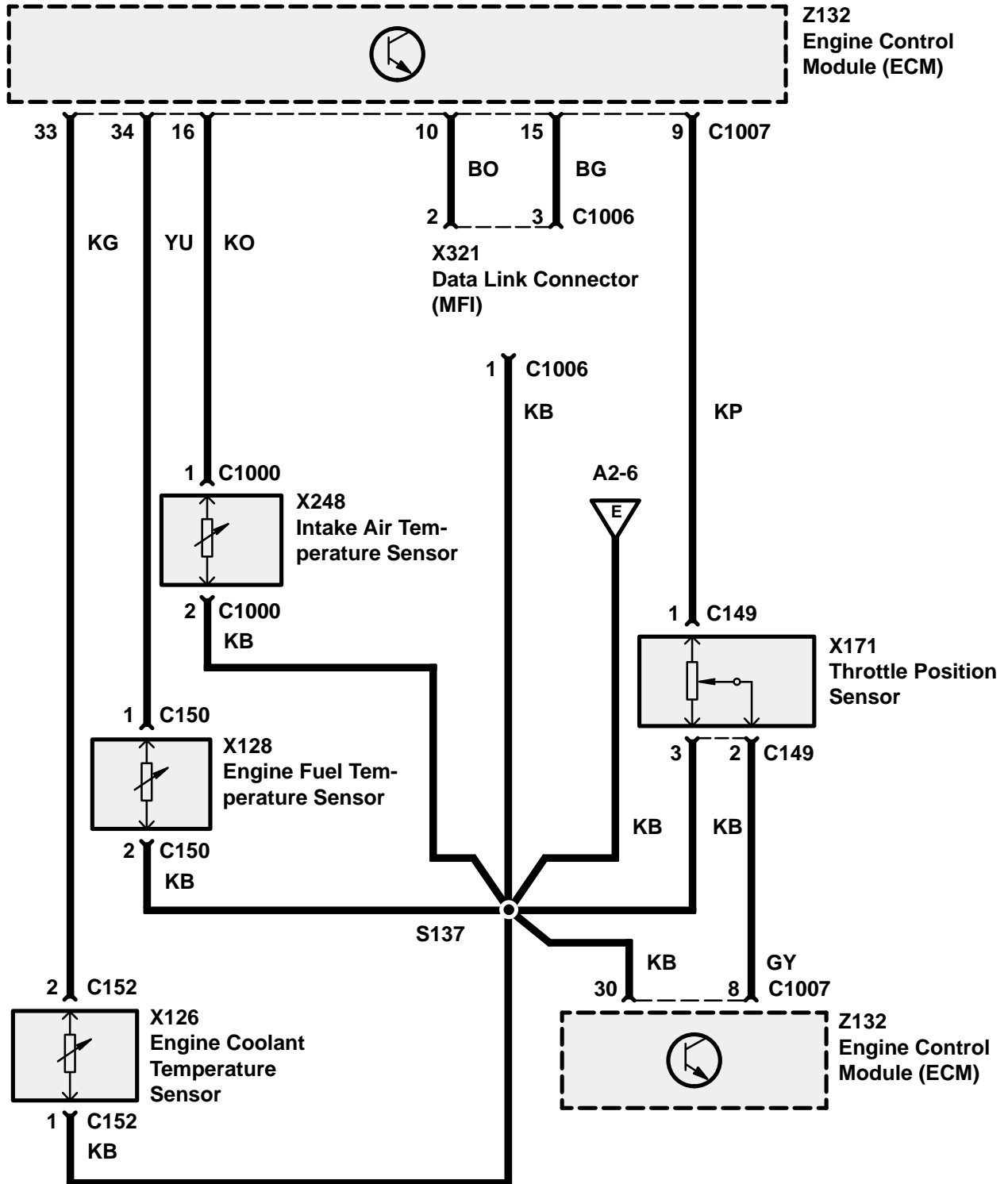
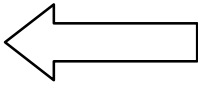


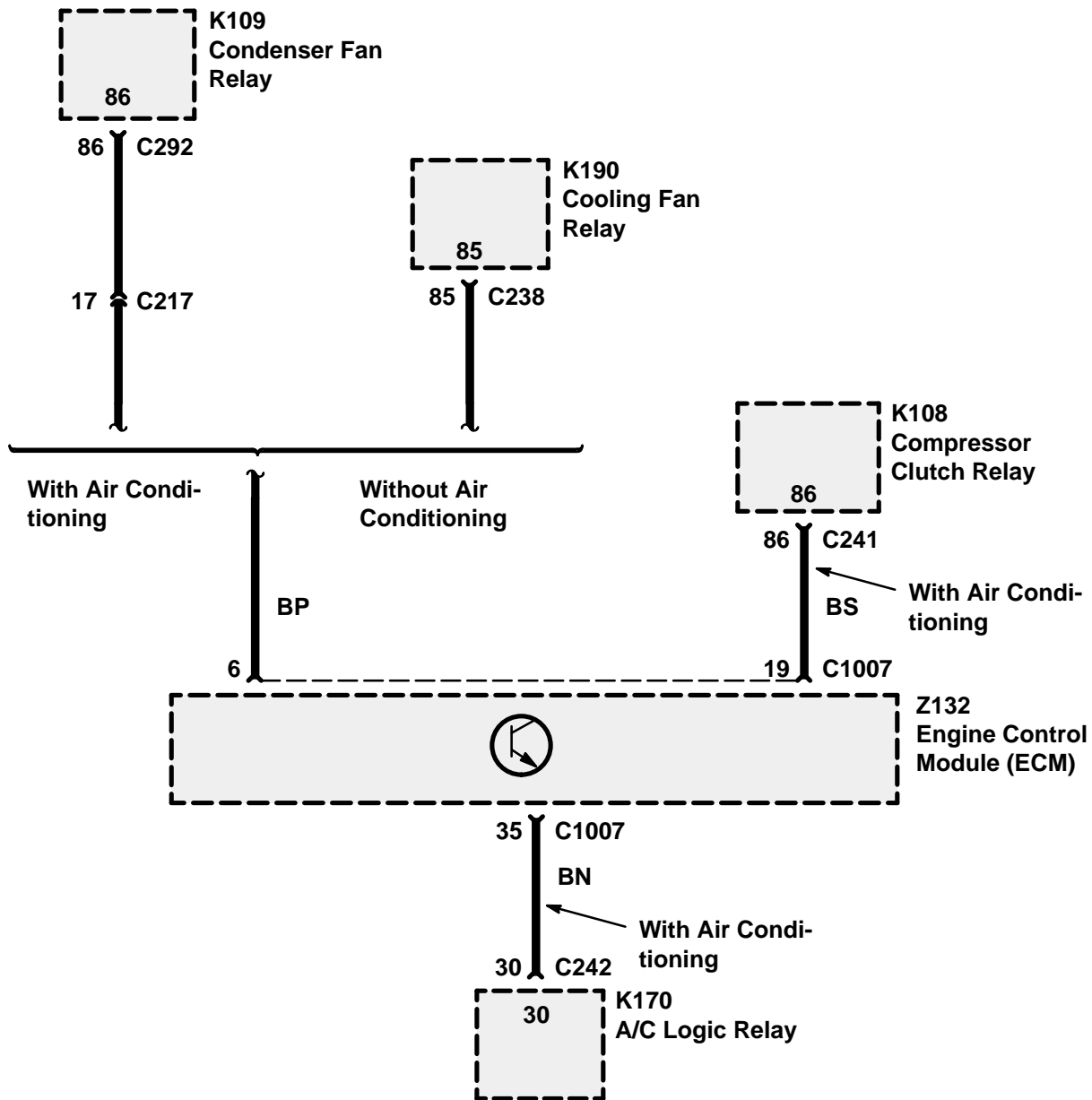
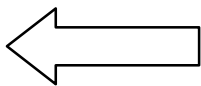




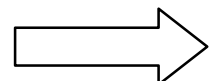
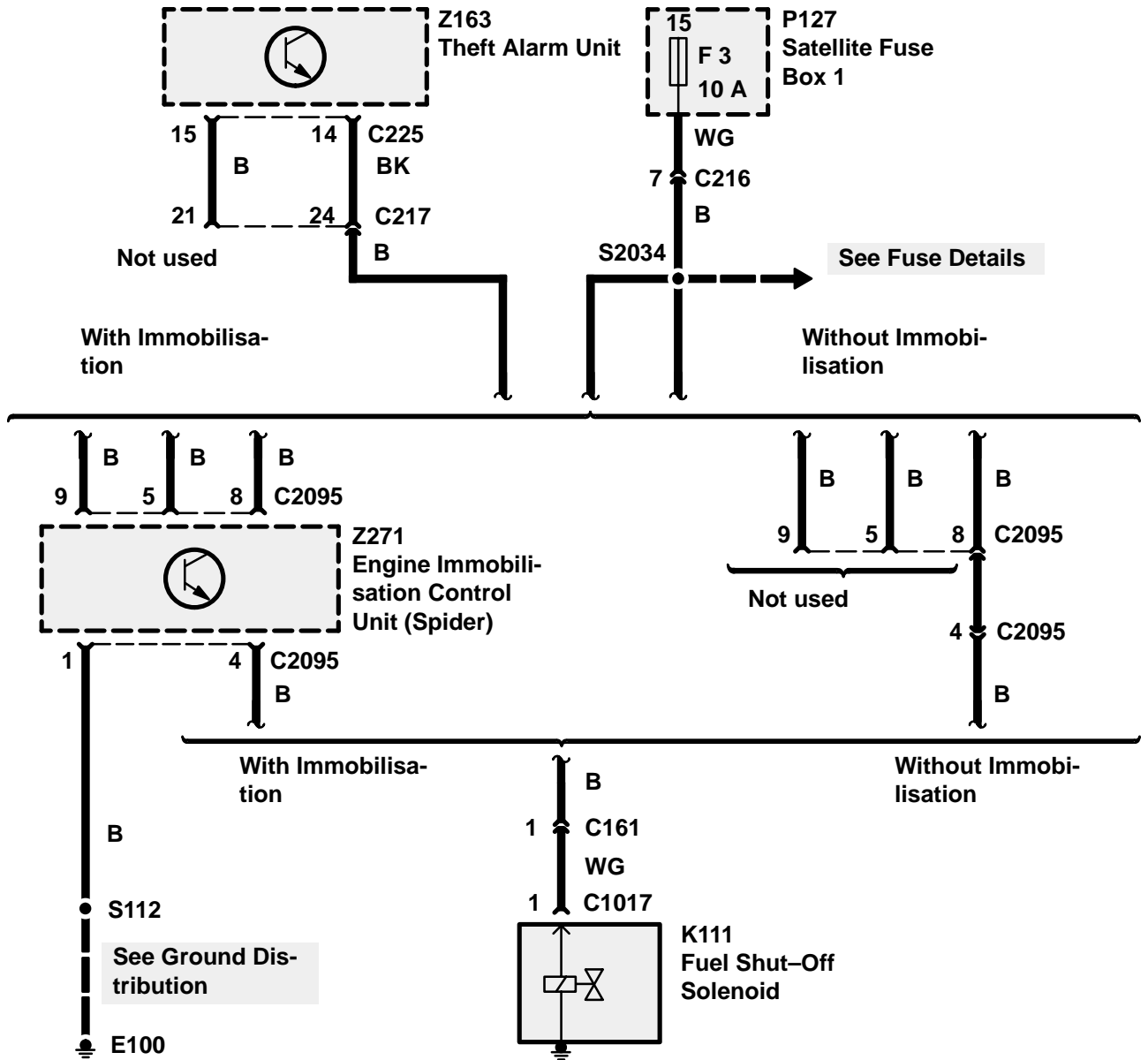


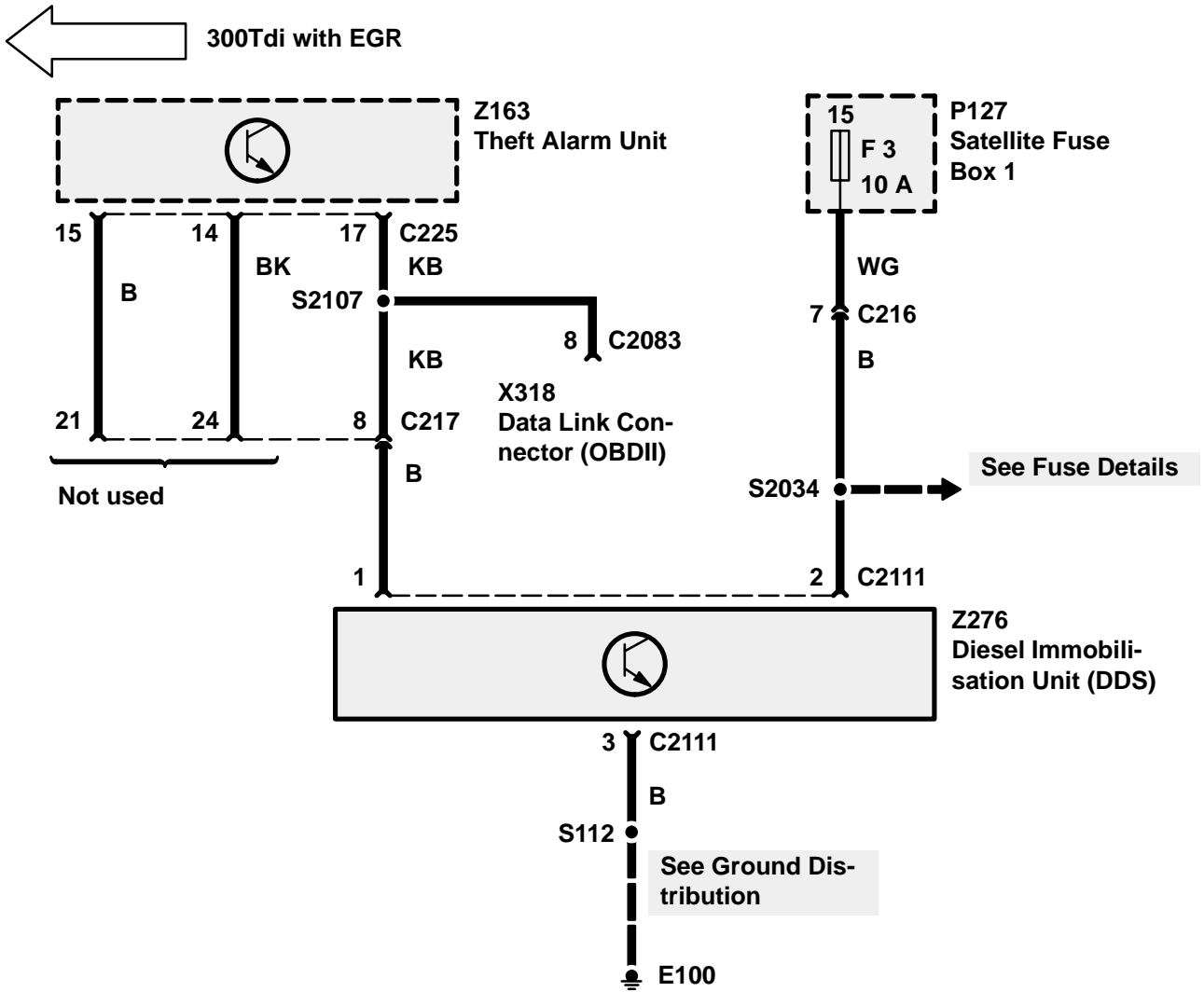


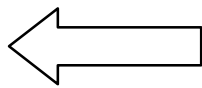




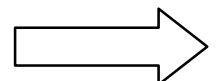
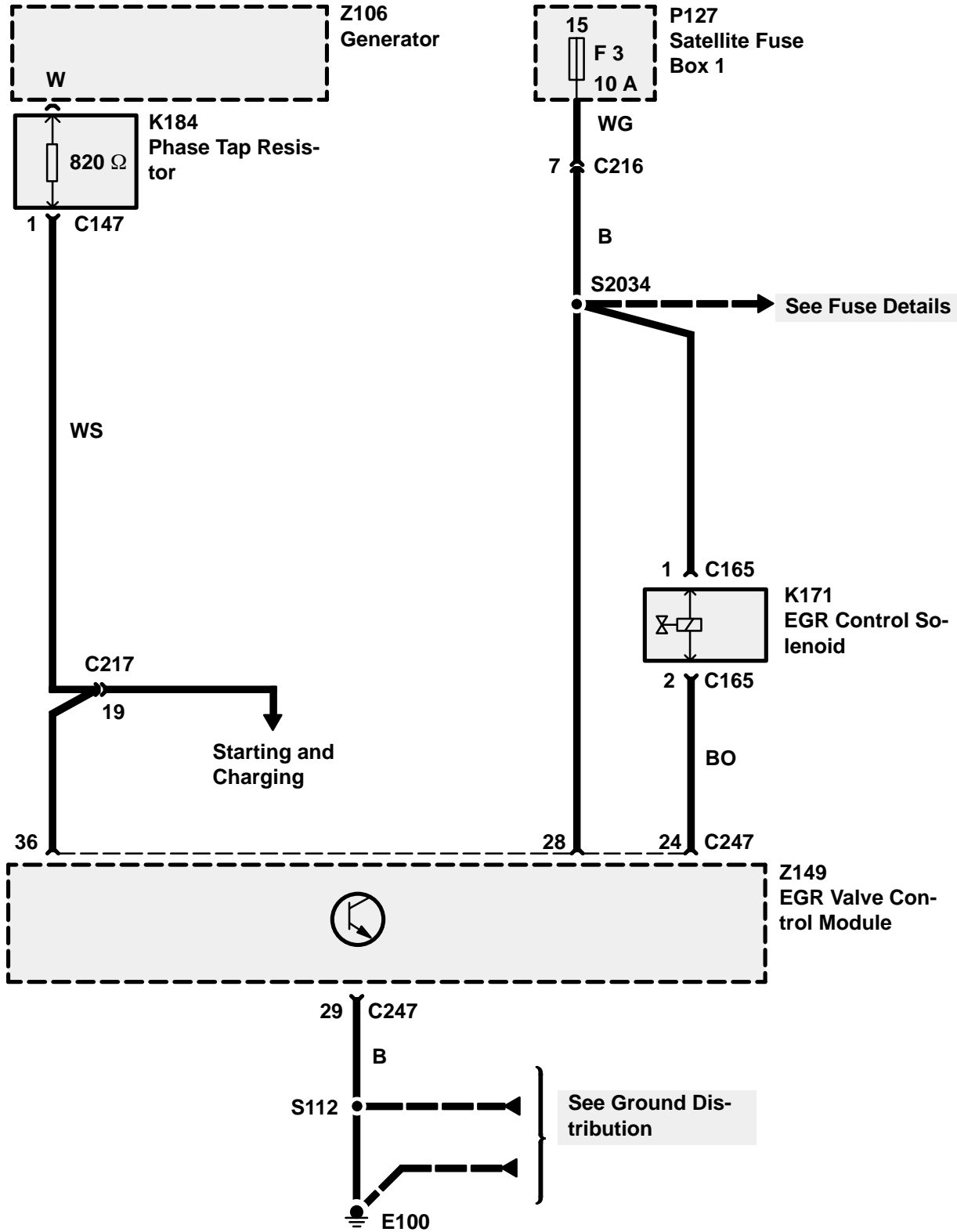
300Tdi without EGR

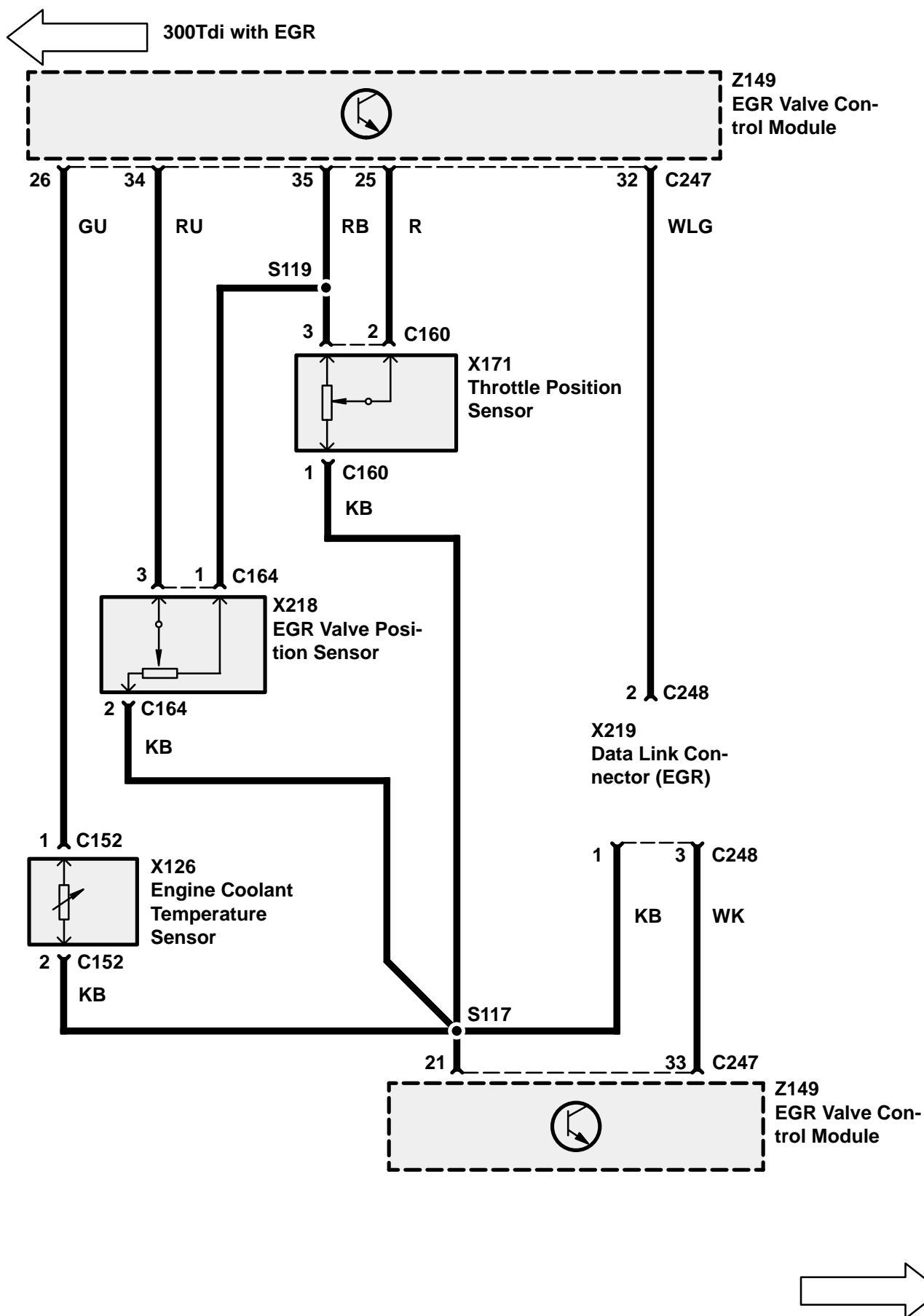


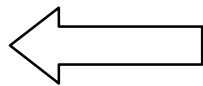




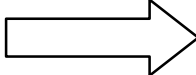
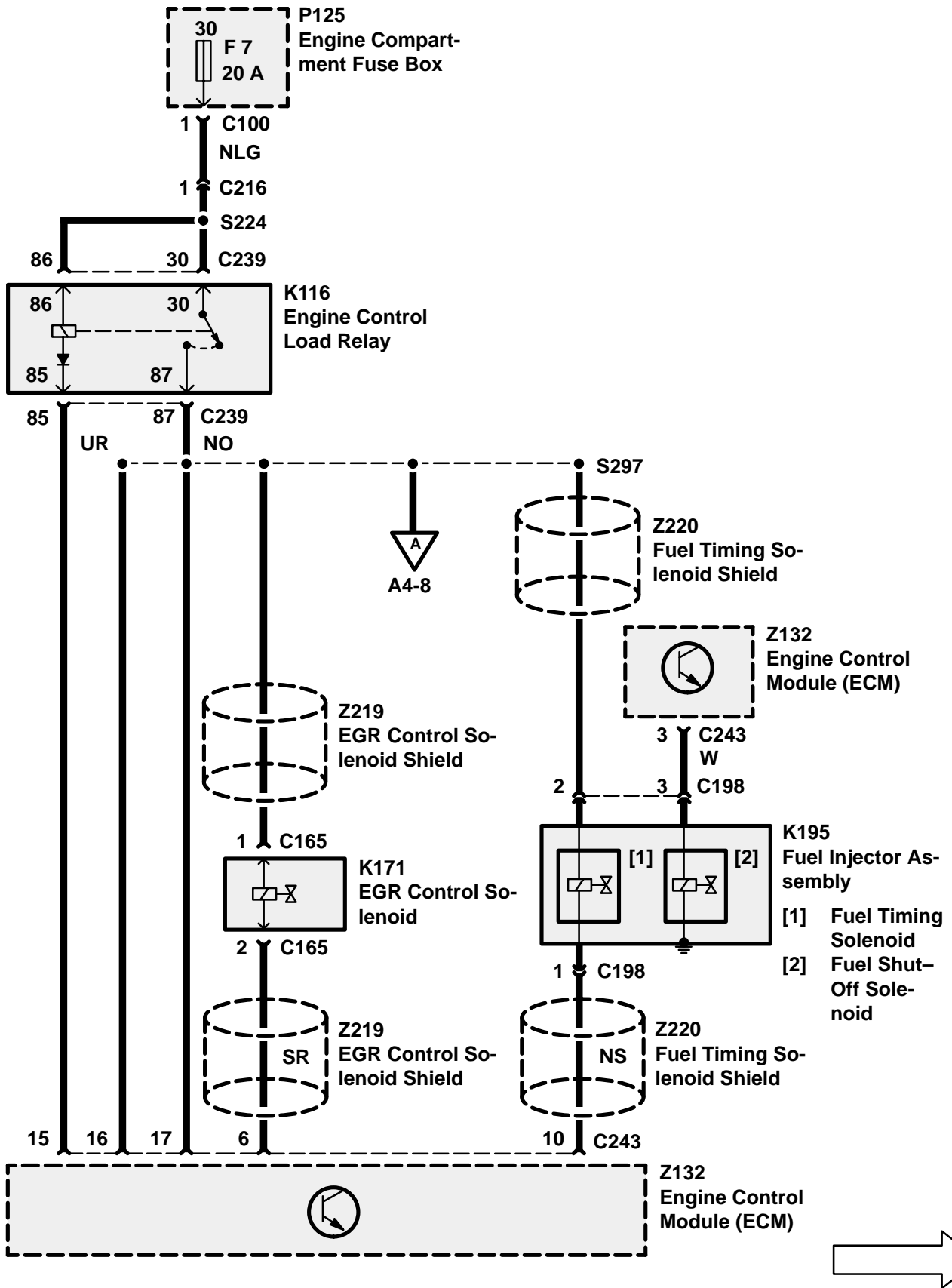
300Tdi with EGR



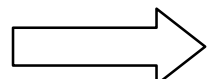
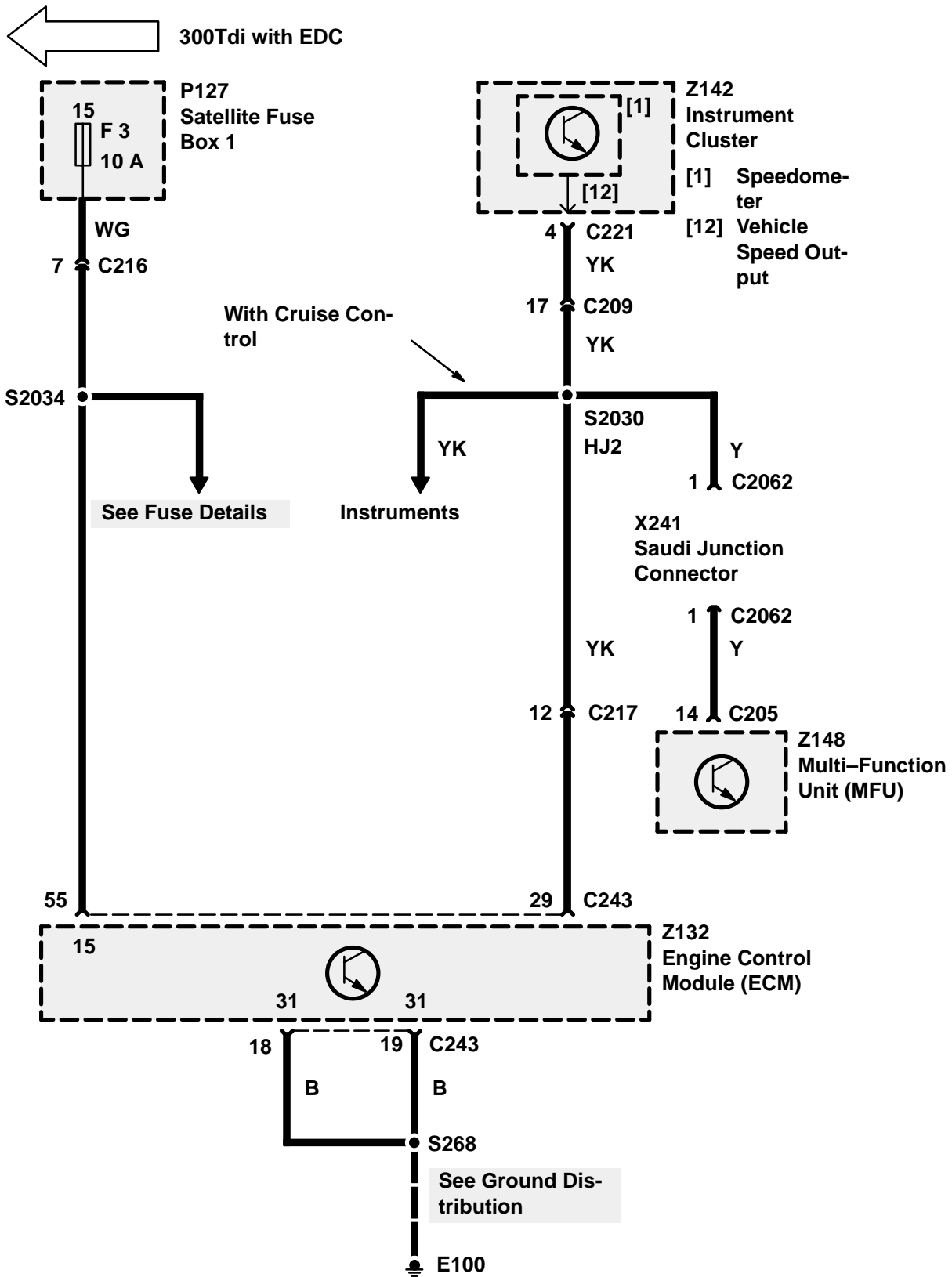


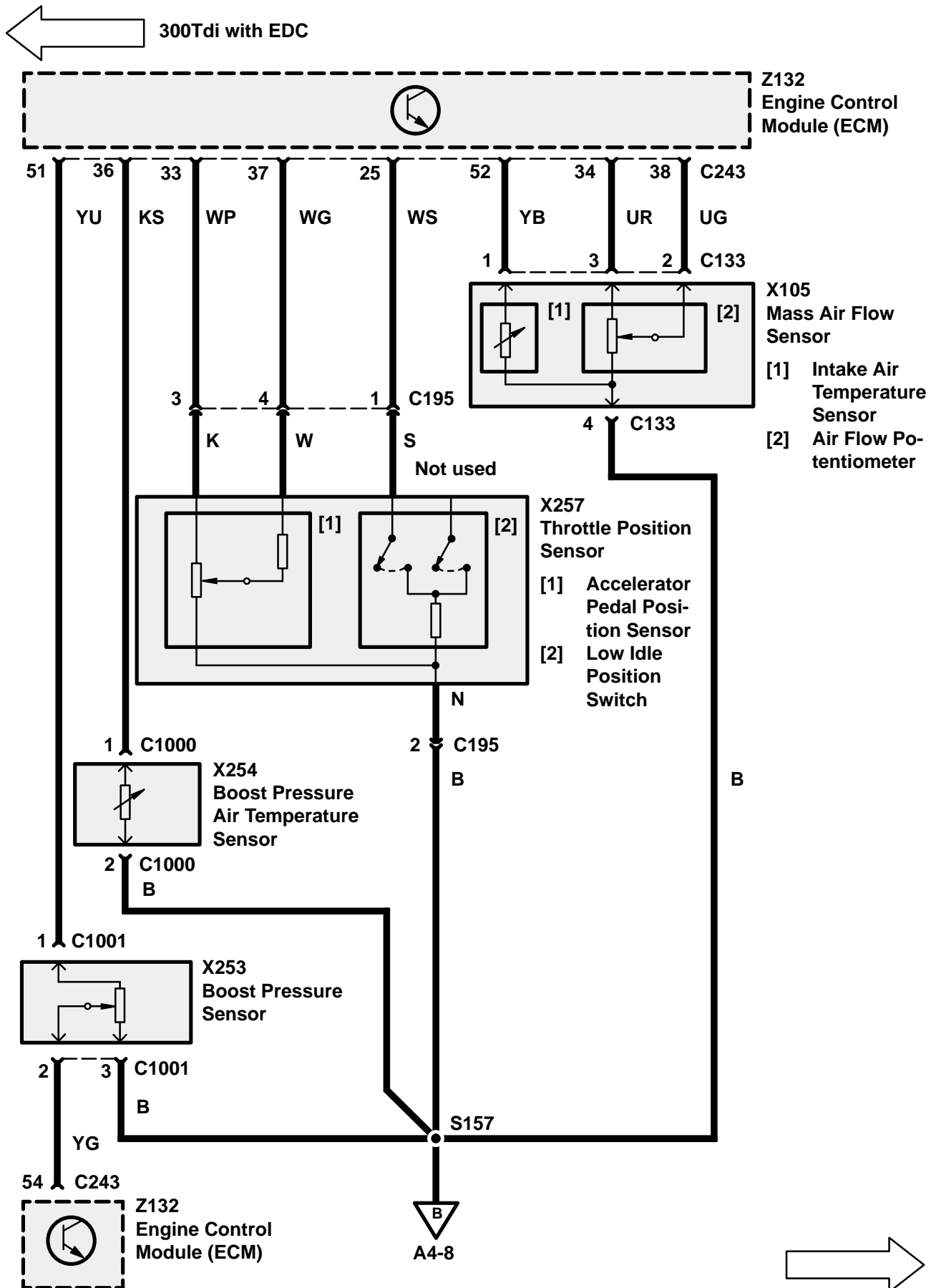


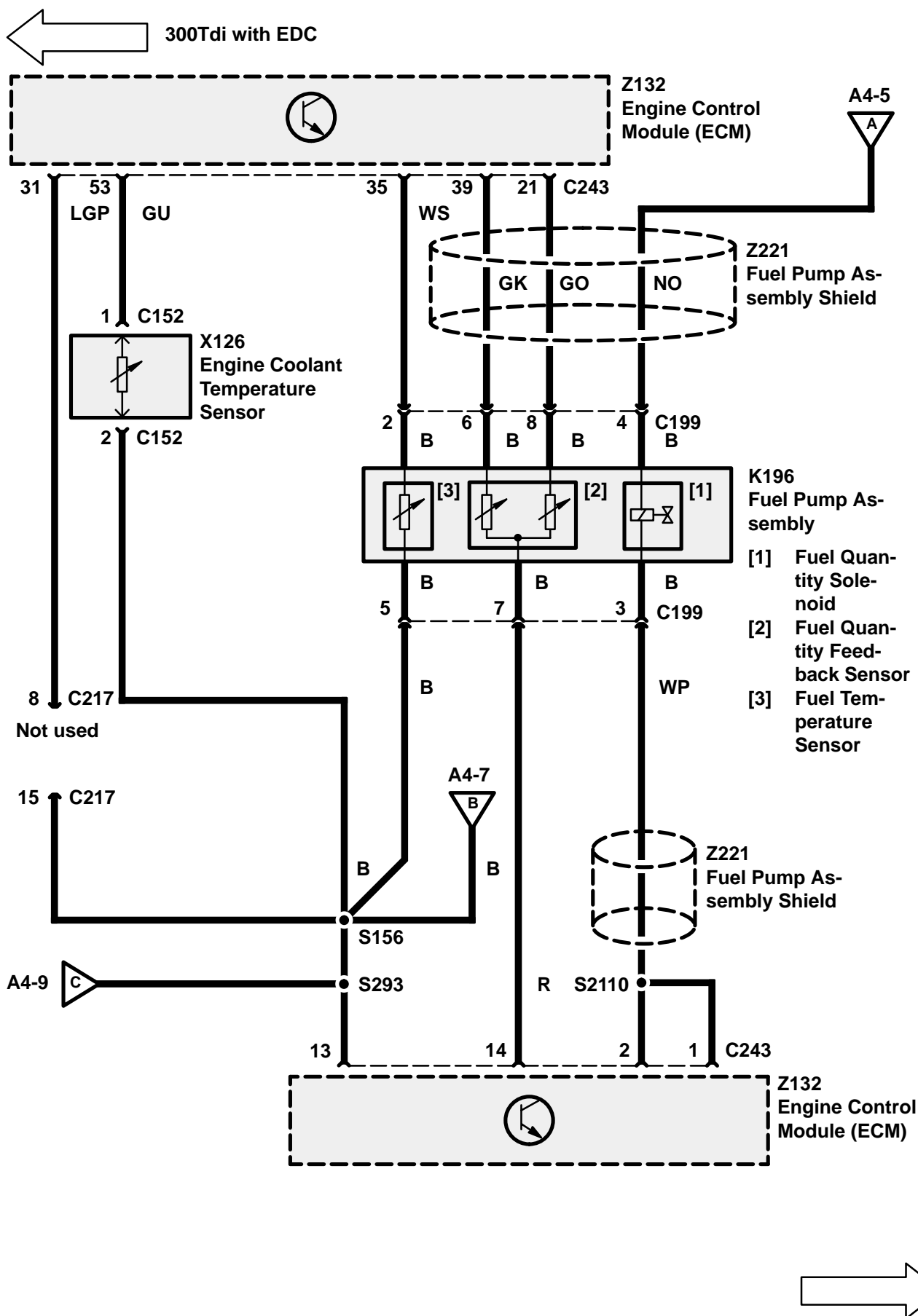
300Tdi with EDC

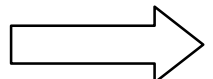
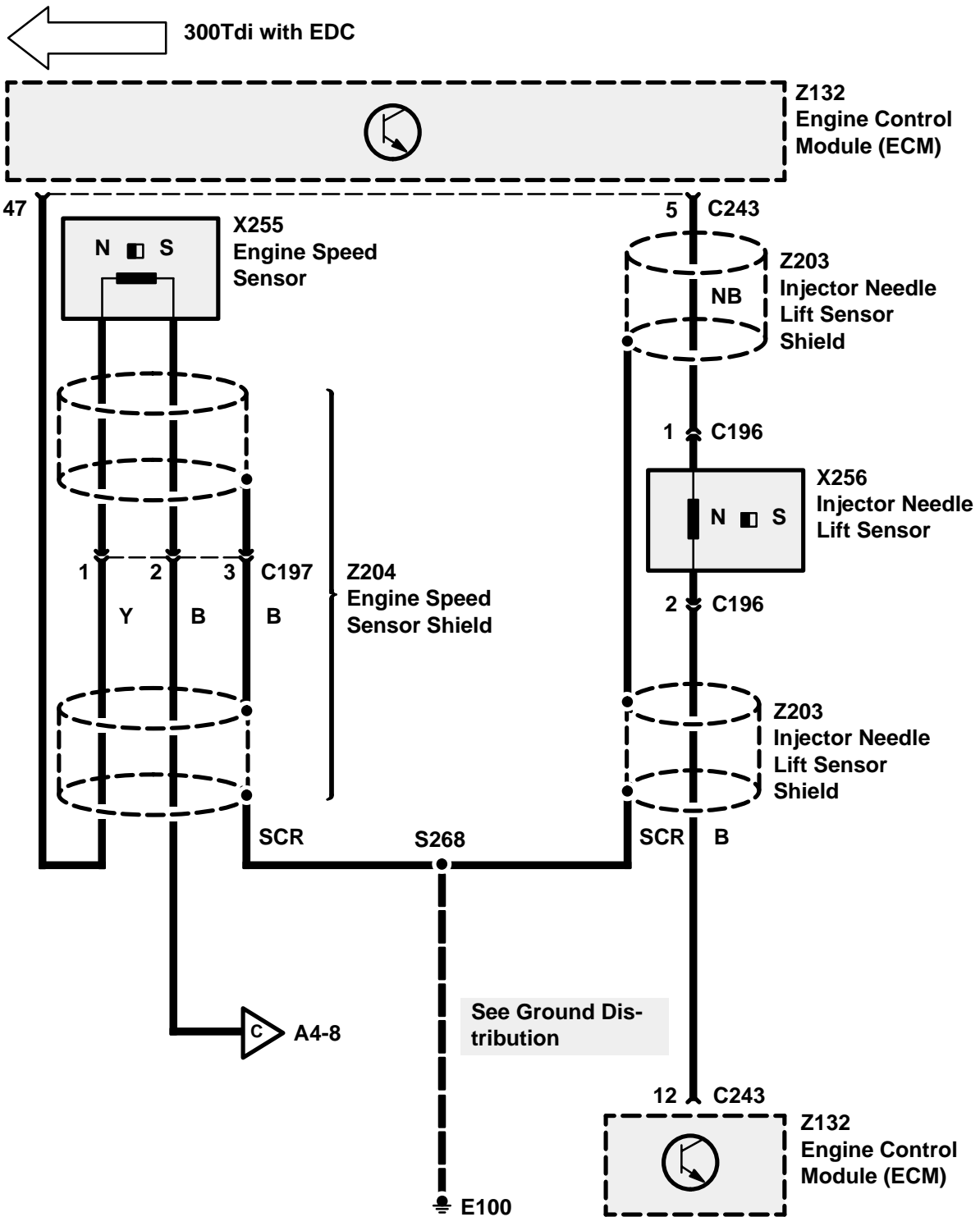


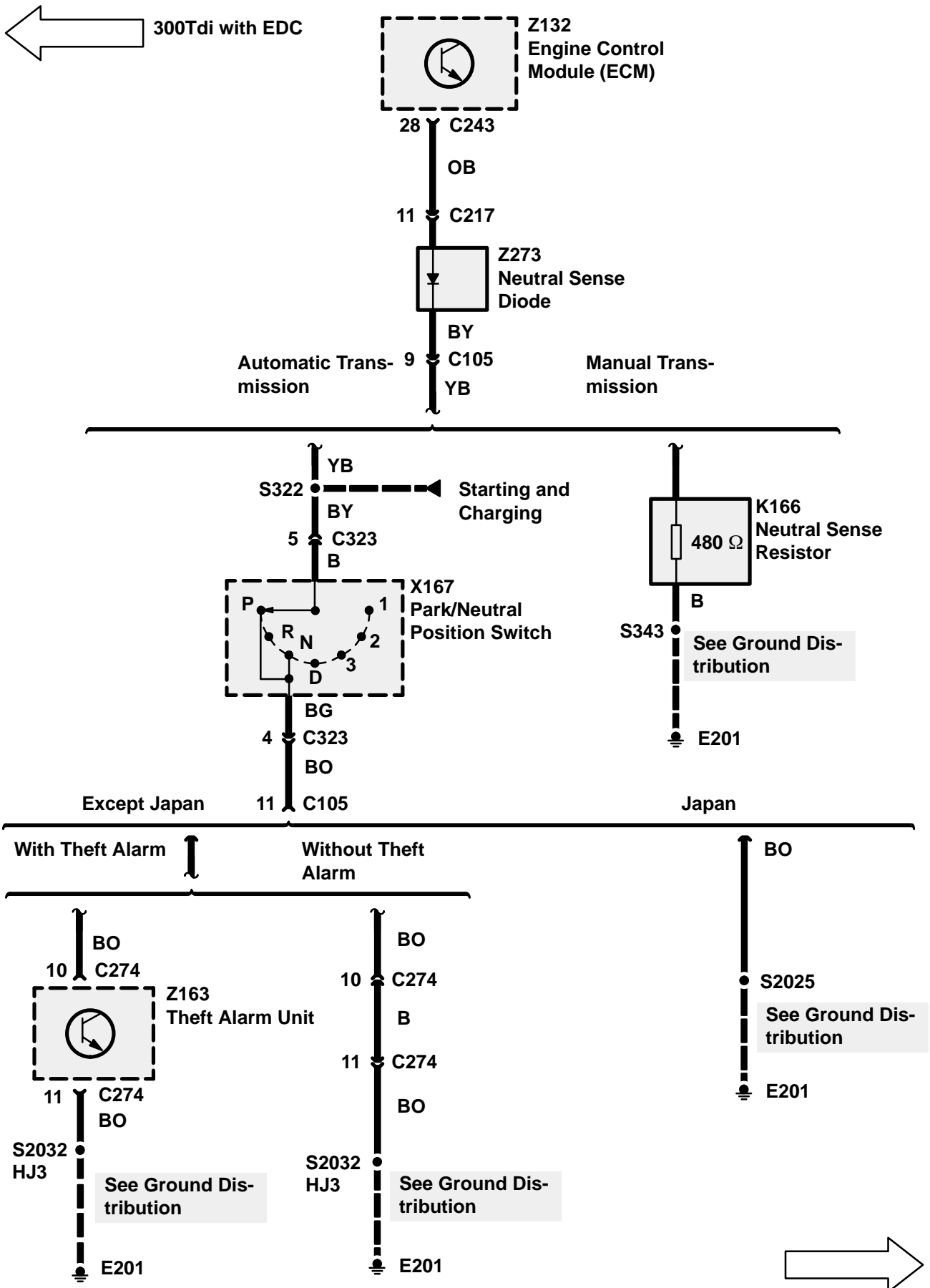


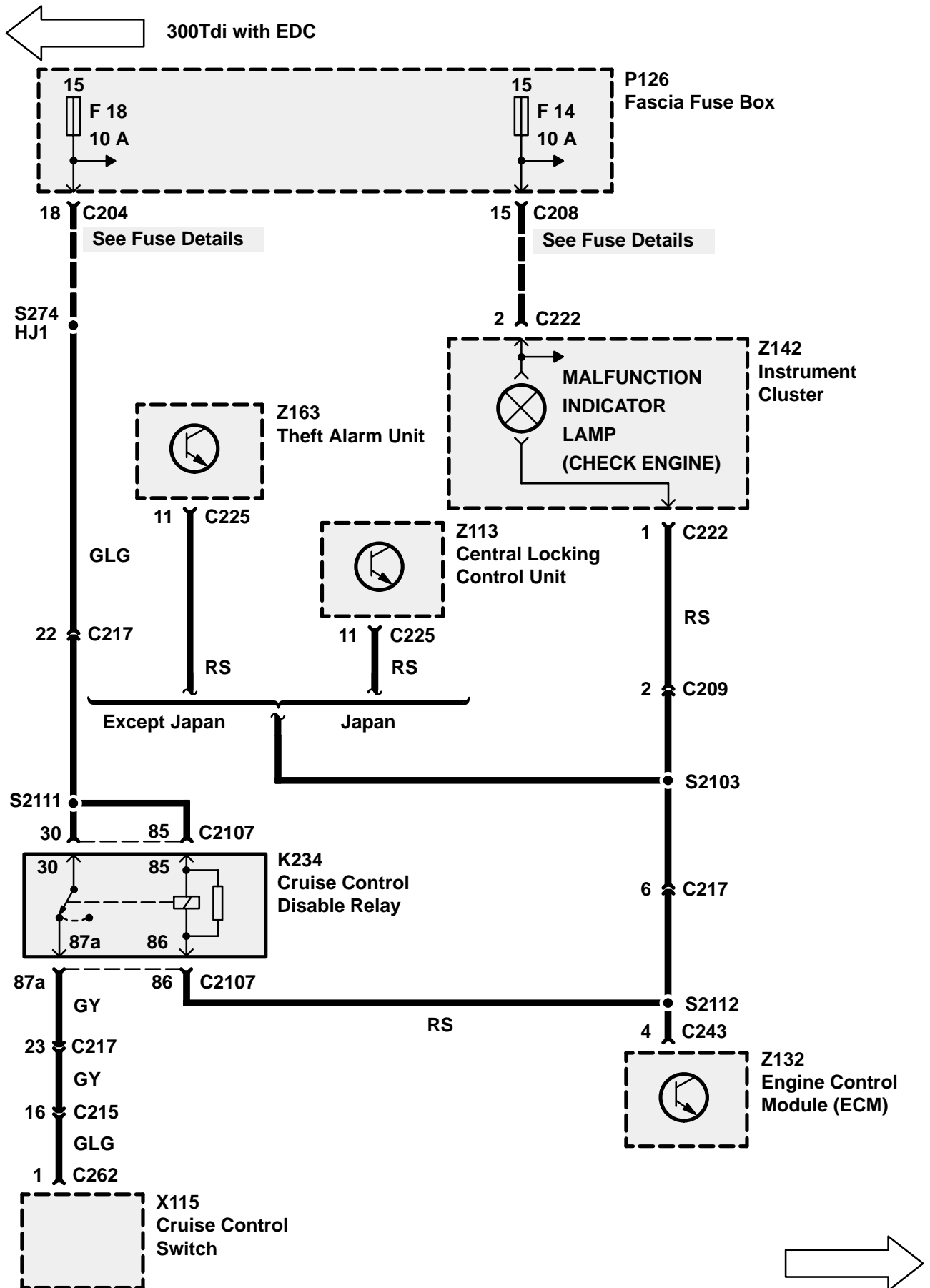


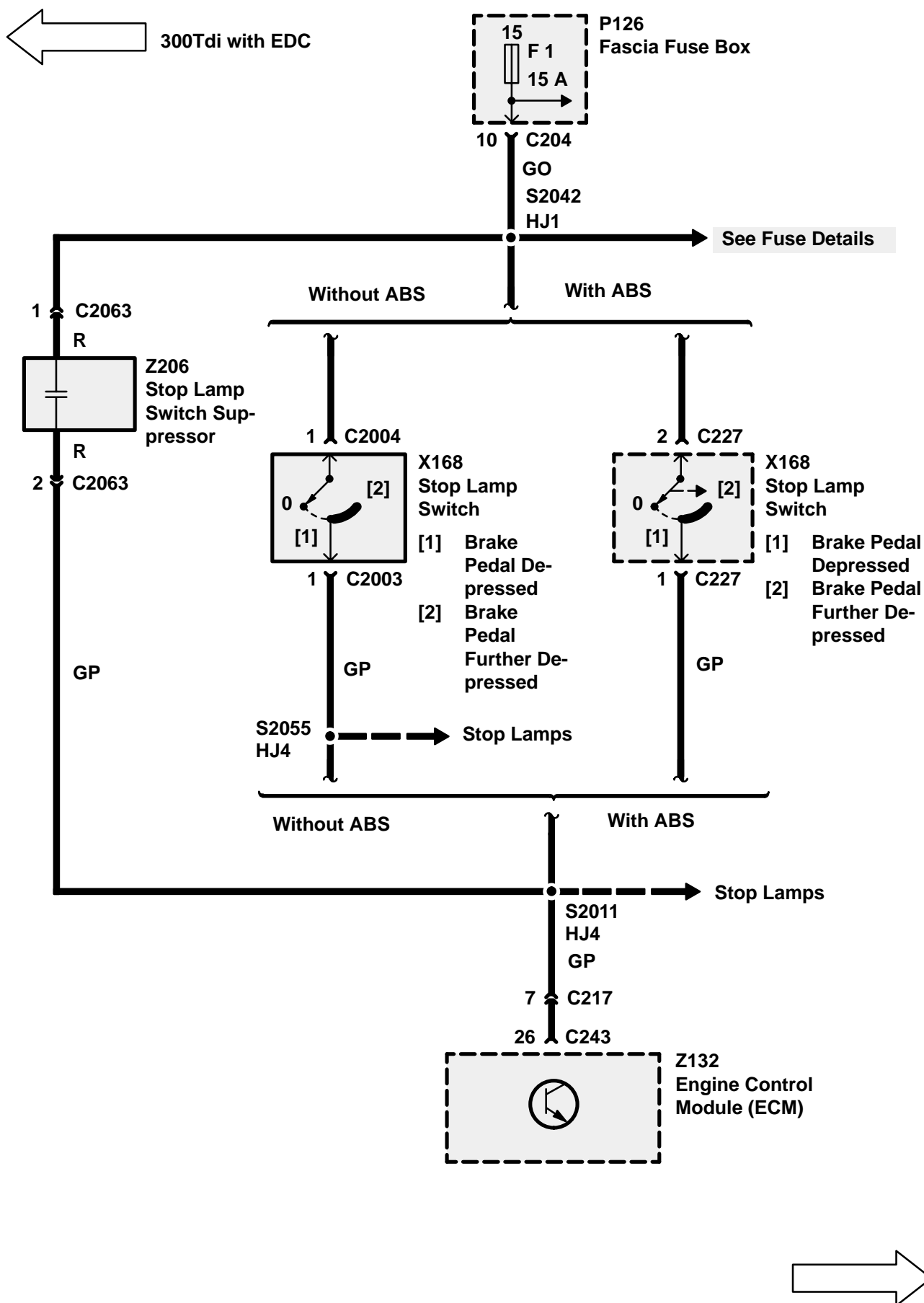


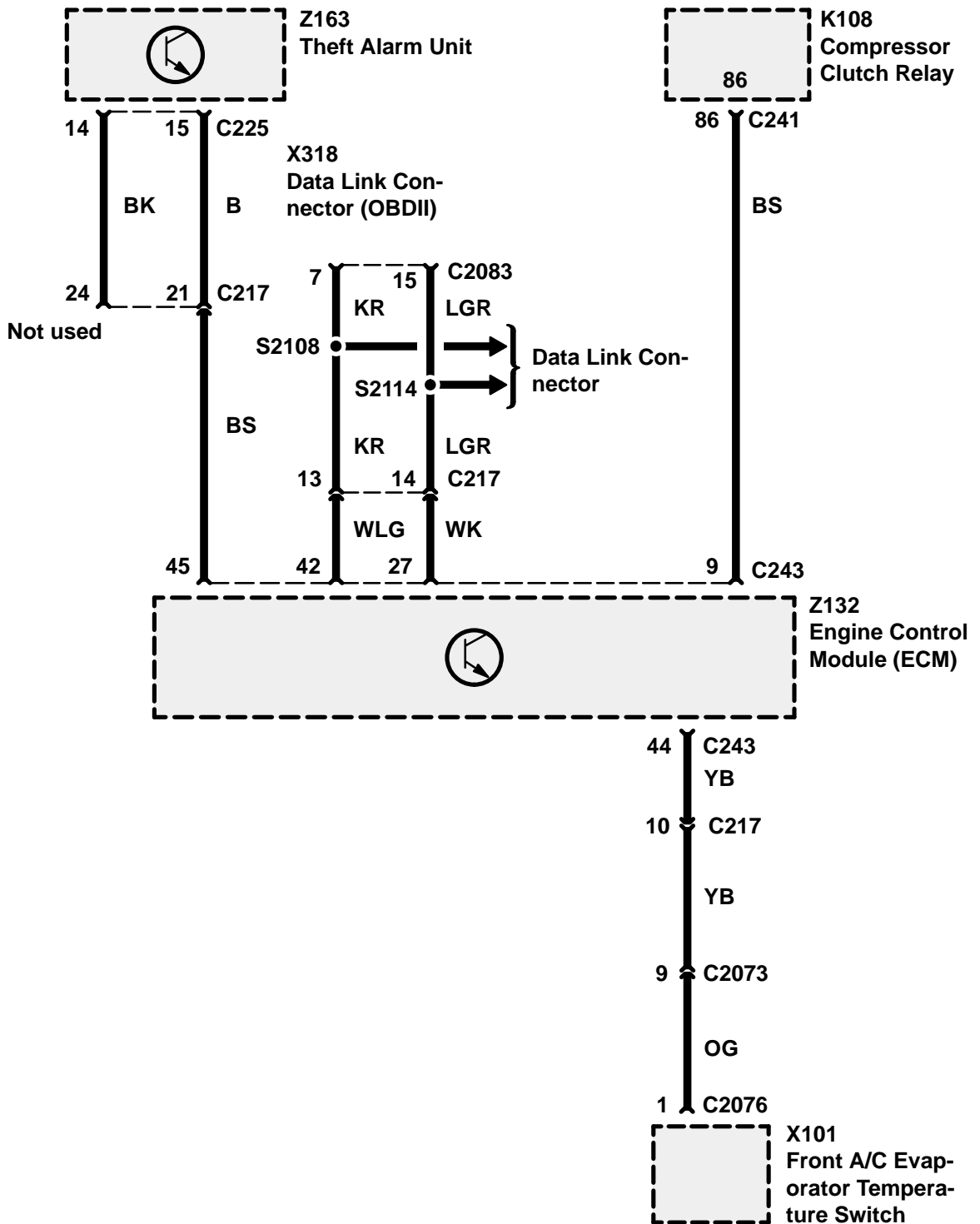




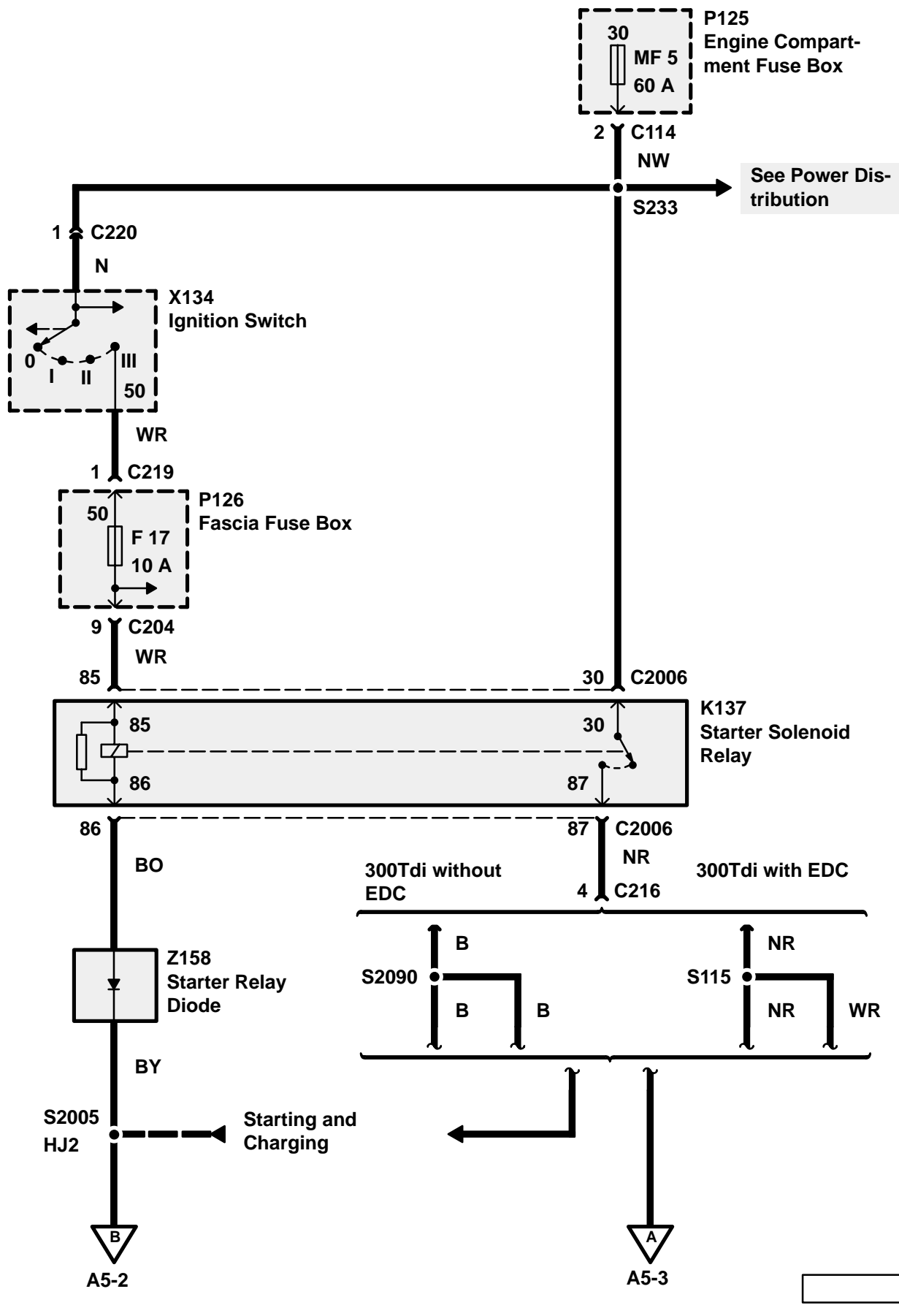


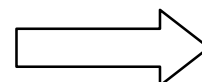
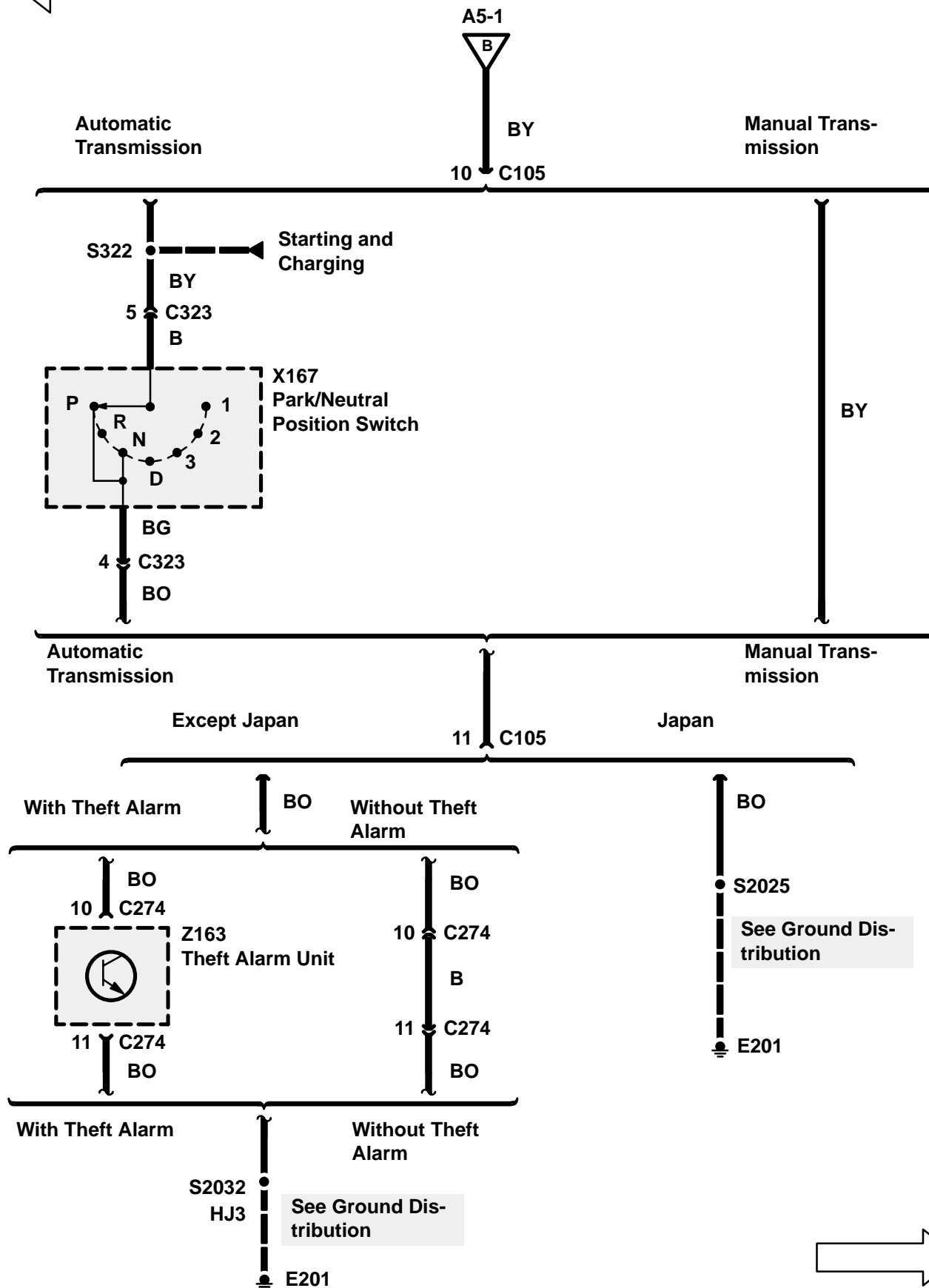
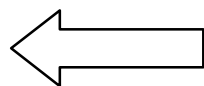


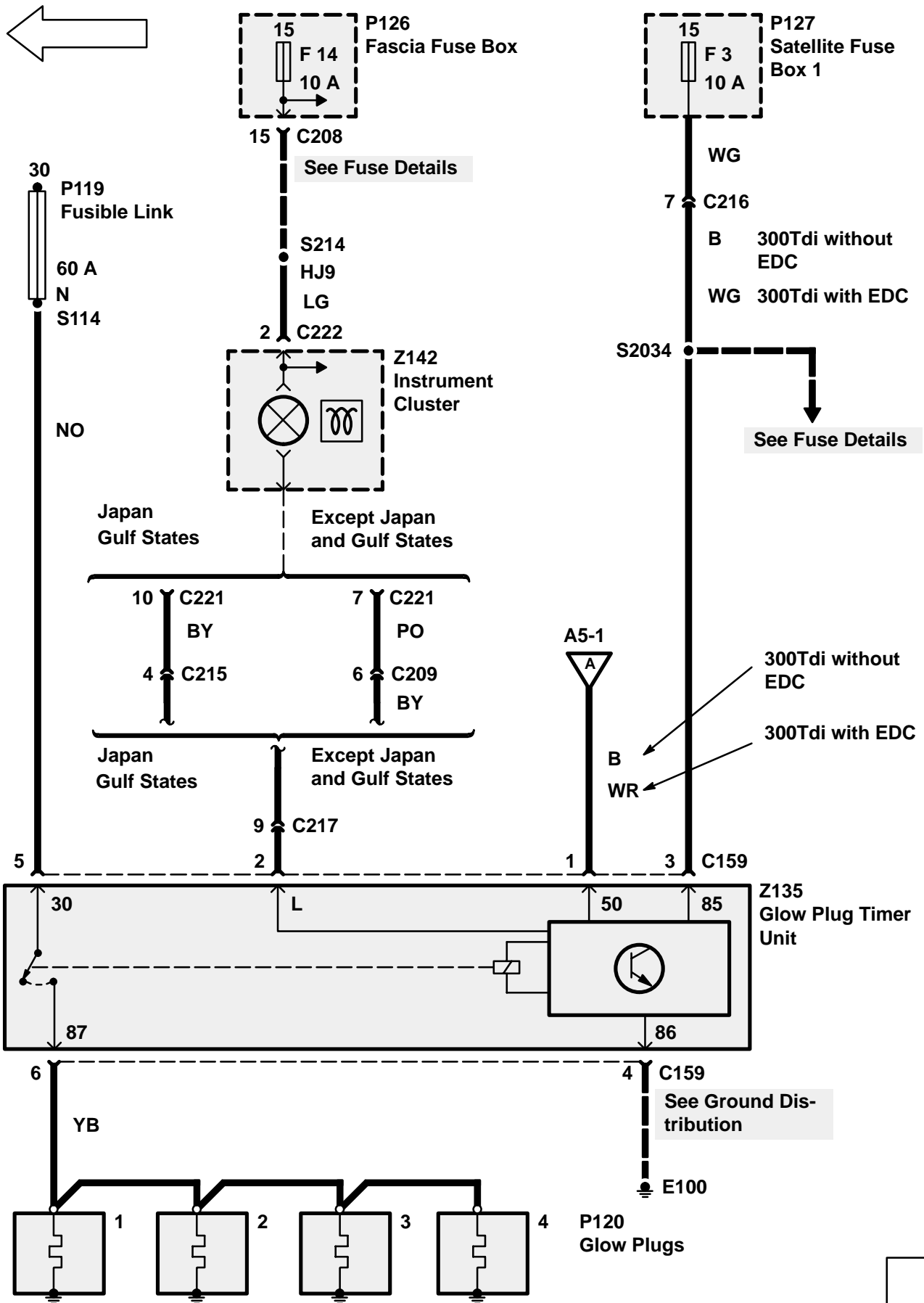












## CIRCUIT OPERATION

### Starting System (MFI–V8) (300 Tdi without EGR)

For vehicles equipped with Theft Alarm without Engine Immobilisation:

Putting the Ignition Switch (X134) in position III applies battery voltage to the Starter Solenoid Relay's (K137) terminal 85. With the vehicle in Park or Neutral (Automatic only) and the Theft Alarm de-activated, the Starter Solenoid Relay (K137) energises. Battery voltage is then applied directly to the Starter Solenoid (K136) and the Starter (M134) via the Engine Immobilisation Control Unit (Spider) (Z271) shorting plug.

On manual transmission vehicles, the Theft Alarm Unit (Z163) provides a ground circuit to the Starter Solenoid Relay's (K137) 86 terminal.

On automatic transmission vehicles, the Theft Alarm Unit (Z163) provides a ground circuit to the Starter Solenoid Relay's (K137) 86 terminal via the Park/Neutral Position Switch (X167).

If the theft alarm is activated, the Theft Alarm Unit (Z163) will interrupt the Starter Solenoid Relay's (K137) ground path. The Starter Solenoid Relay (K137) will remain de-energised and prevent starting the engine.

For vehicles equipped with Theft Alarm and Engine Immobilisation:

Putting the Ignition Switch (X134) in position III applies battery voltage to the Starter Solenoid Relay's (K137) terminal 85. With the vehicle in Park or Neutral (Automatic only) and the Theft Alarm de-activated, the Starter Solenoid Relay (K137) energises. Battery voltage is then applied to the Engine Immobilisation Control Unit (Spider) (Z271). If the Theft Alarm is activated, the Engine Immobilisation Control Unit (Spider) (Z271) will interrupt the battery supply to the Starter Solenoid (K136) and the Starter (M134).

On manual transmission vehicles, the Theft Alarm Unit (Z163) provides a ground circuit to the Starter Solenoid Relay's (K137) 86 terminal.

On automatic transmission vehicles, the Theft Alarm Unit (Z163) provides a ground circuit to the Starter Solenoid Relay's (K137) 86 terminal via the Park/Neutral Position Switch (X167).

If the theft alarm is activated, the Theft Alarm Unit (Z163) will interrupt the Starter Solenoid Relay's (K137) ground path. The Starter Solenoid Relay (K137) will remain de-energised and prevent starting the engine.

For vehicles not equipped with Theft Alarm and Engine Immobilisation:

Putting the Ignition Switch (X134) in position III applies battery voltage to the Starter Solenoid Relay's (K137) terminal 85. With the vehicle in Park or Neutral (Automatic only), the Starter Solenoid Relay (K137) energises. Battery voltage is then applied directly to the Starter Solenoid (K136) and the Starter (M134) via the Engine Immobilisation Control Unit (Spider) (Z271) shorting plug.

For vehicles not equipped with Theft Alarm, a black wire is used to short pins 10 and 11 of C274.

On Japan and manual transmission vehicles, a ground path is provided directly to the Starter Solenoid Relay's (K137) 86 terminal.

On automatic transmission vehicles, a ground path is provided to the Starter Solenoid Relay's (K137) 86 terminal via the Park/Neutral Position Switch (X167).

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**Starting System (MFI–T16) (300 Tdi with EGR)  
(300 Tdi with EDC)**

Putting the Ignition Switch (X134) in position III applies battery voltage to the Starter Solenoid Relay's (K137) terminal 85. With the vehicle in Park or Neutral (Automatic only) and/or the Theft Alarm de-activated, the Starter Solenoid Relay (K137) energises. Battery voltage is then applied directly to the Starter Solenoid (K136) and the Starter (M134).

On manual transmission vehicles equipped with a theft alarm, the Theft Alarm Unit (Z163) provides a ground circuit to the Starter Solenoid Relay's (K137) 86 terminal.

On automatic transmission vehicles equipped with a theft alarm, the Theft Alarm Unit (Z163) provides a ground circuit to the Starter Solenoid Relay's (K137) 86 terminal via the Park/Neutral Position Switch (X167).

If the theft alarm is activated, the Theft Alarm Unit (Z163) will interrupt the Starter Solenoid Relay's (K137) ground path. The Starter Solenoid Relay (K137) will remain de-energised and prevent starting the engine.

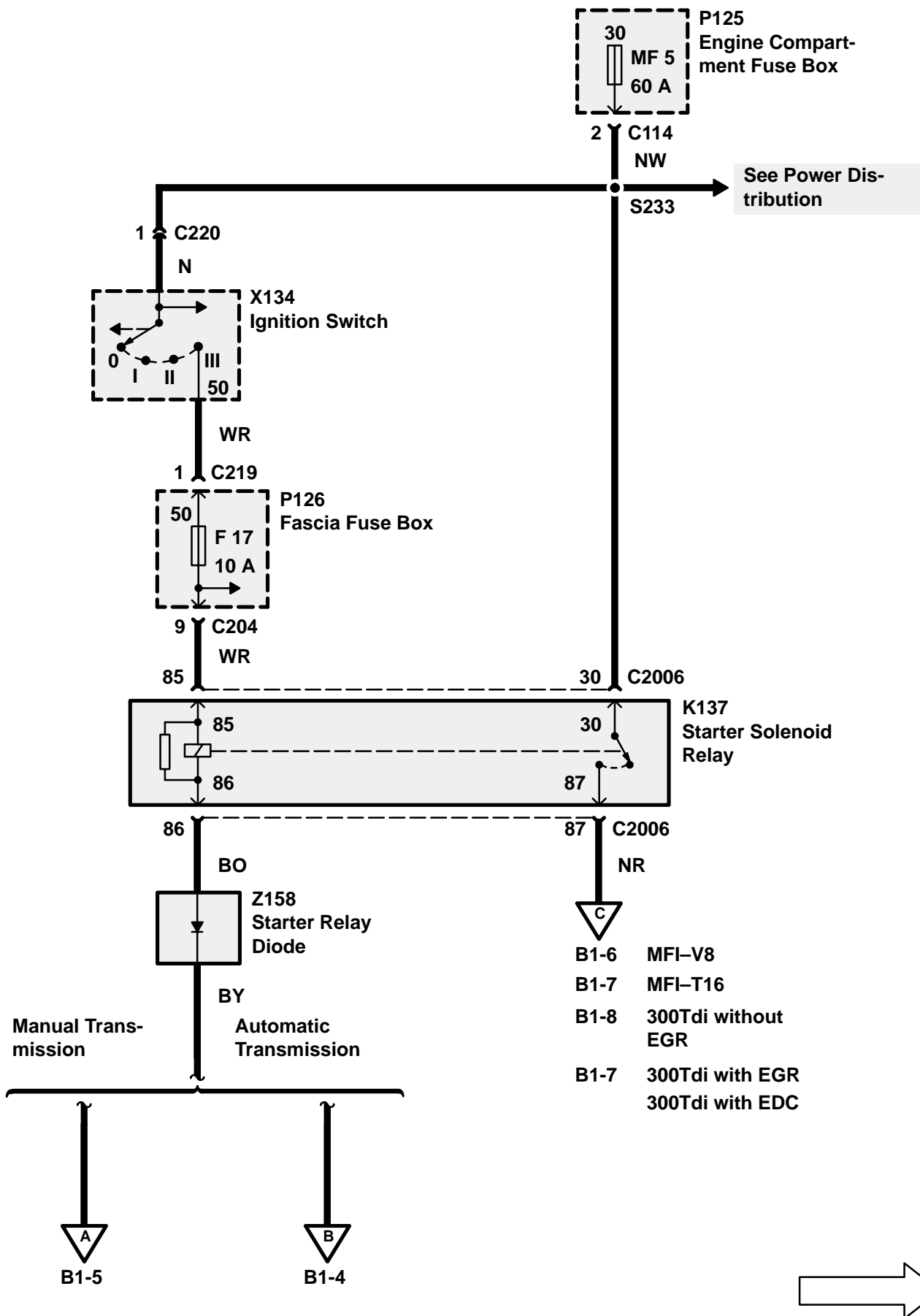
For vehicles not equipped with Theft Alarm, a black wire is used to short pins 10 and 11 of C274.

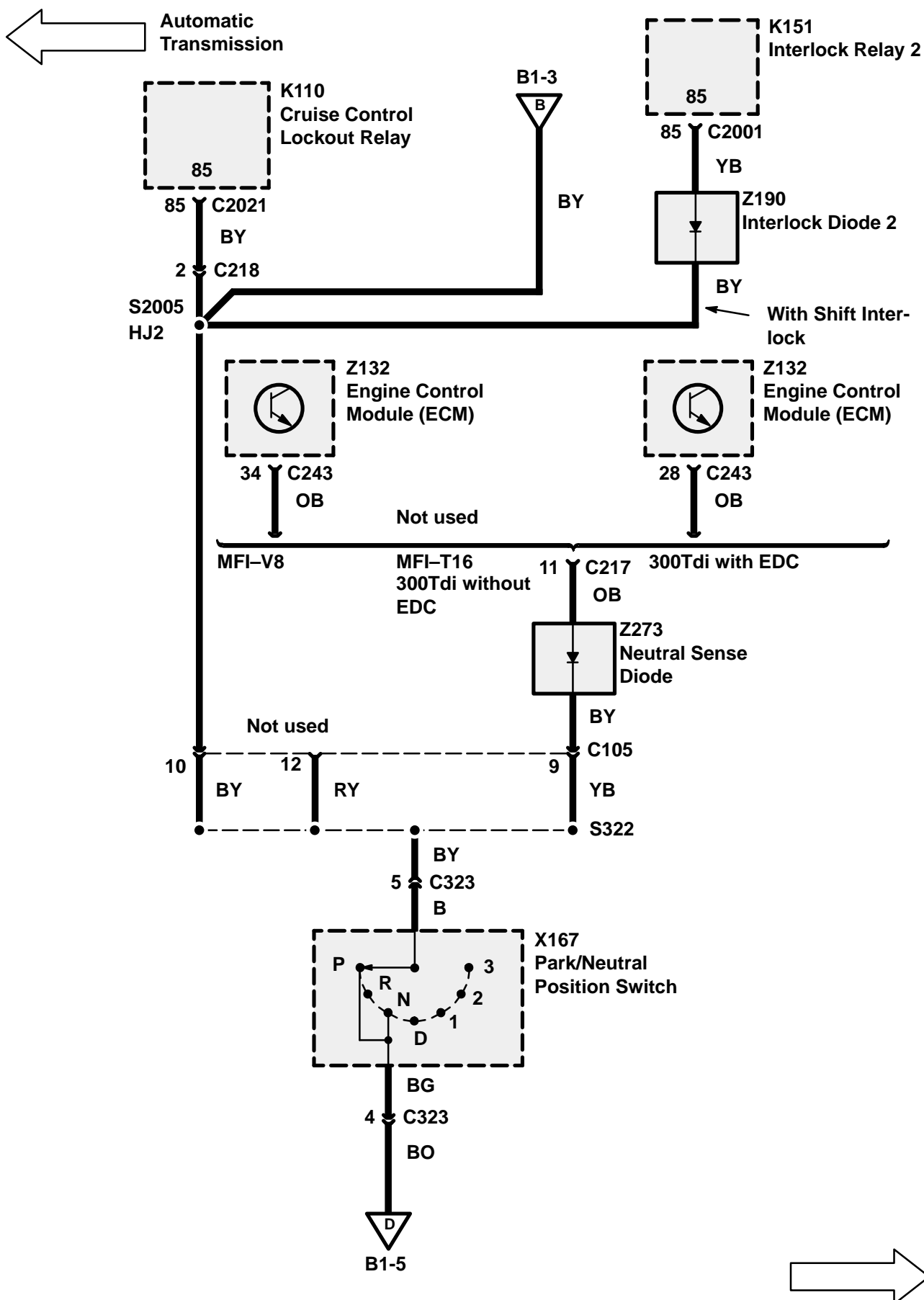
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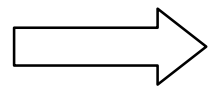
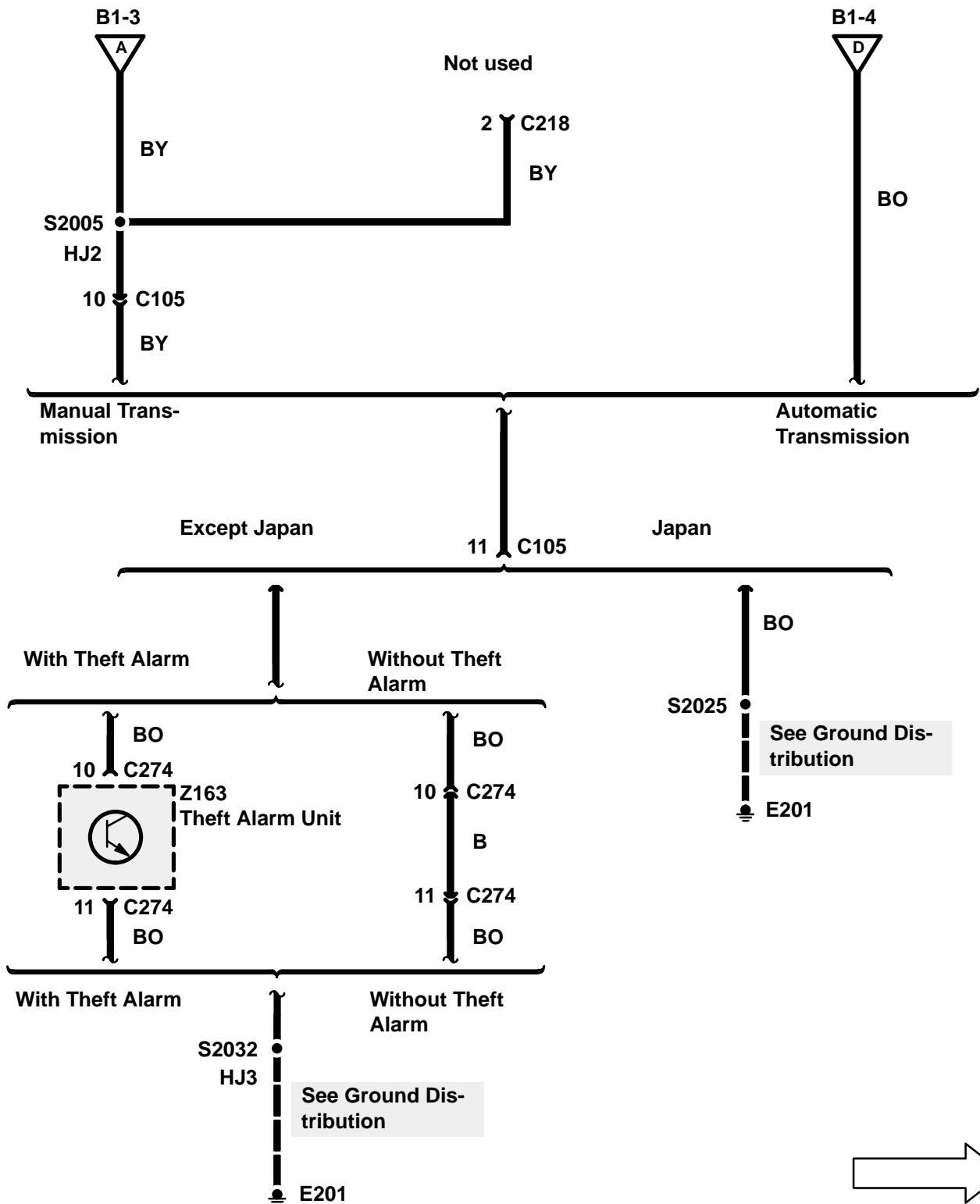
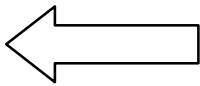
**Charging System**

When the Ignition Switch (X134) is in position II, battery voltage is applied to the charging system fault light. When the Generator (Z106) is being turned by the engine, its stator windings are excited by voltage applied to the Generator (Z106) via the charging system fault light. The Generator (Z106) begins to produce electricity in order to charge the vehicle Battery (P104). If the Generator (Z106) fails to produce power, the Generator (Z106) grounds the fault light control wire, causing the charging system fault light to glow.

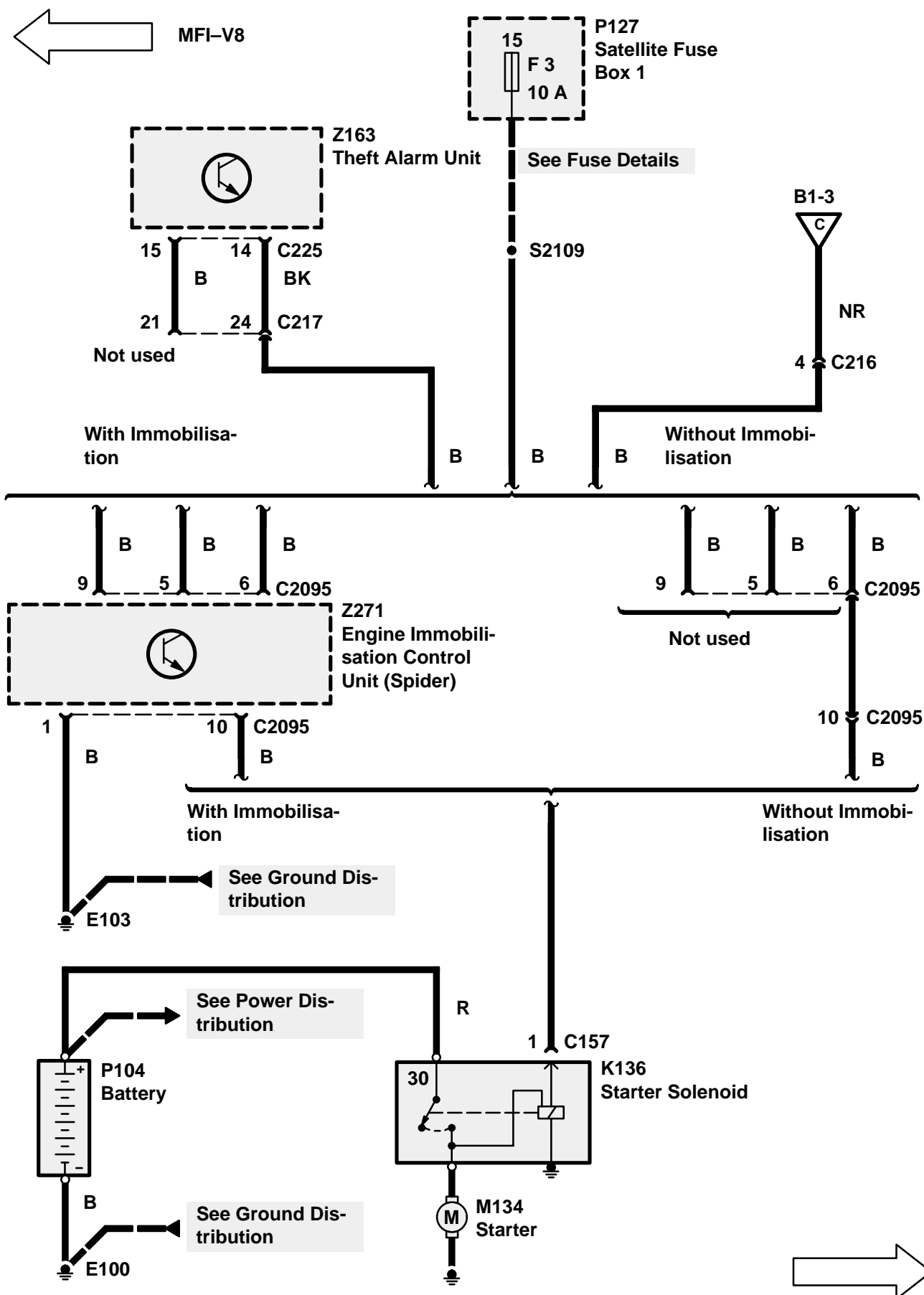
The tachometer displays engine speed in rpm. Voltage pulses are taken from the Generator (Z106) and are generated when the engine drive belt turns the Generator pulley. The tachometer responds to the frequency of the voltage pulses, which increases proportionally to that of the engine speed.

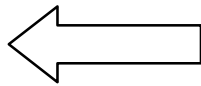




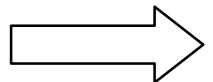
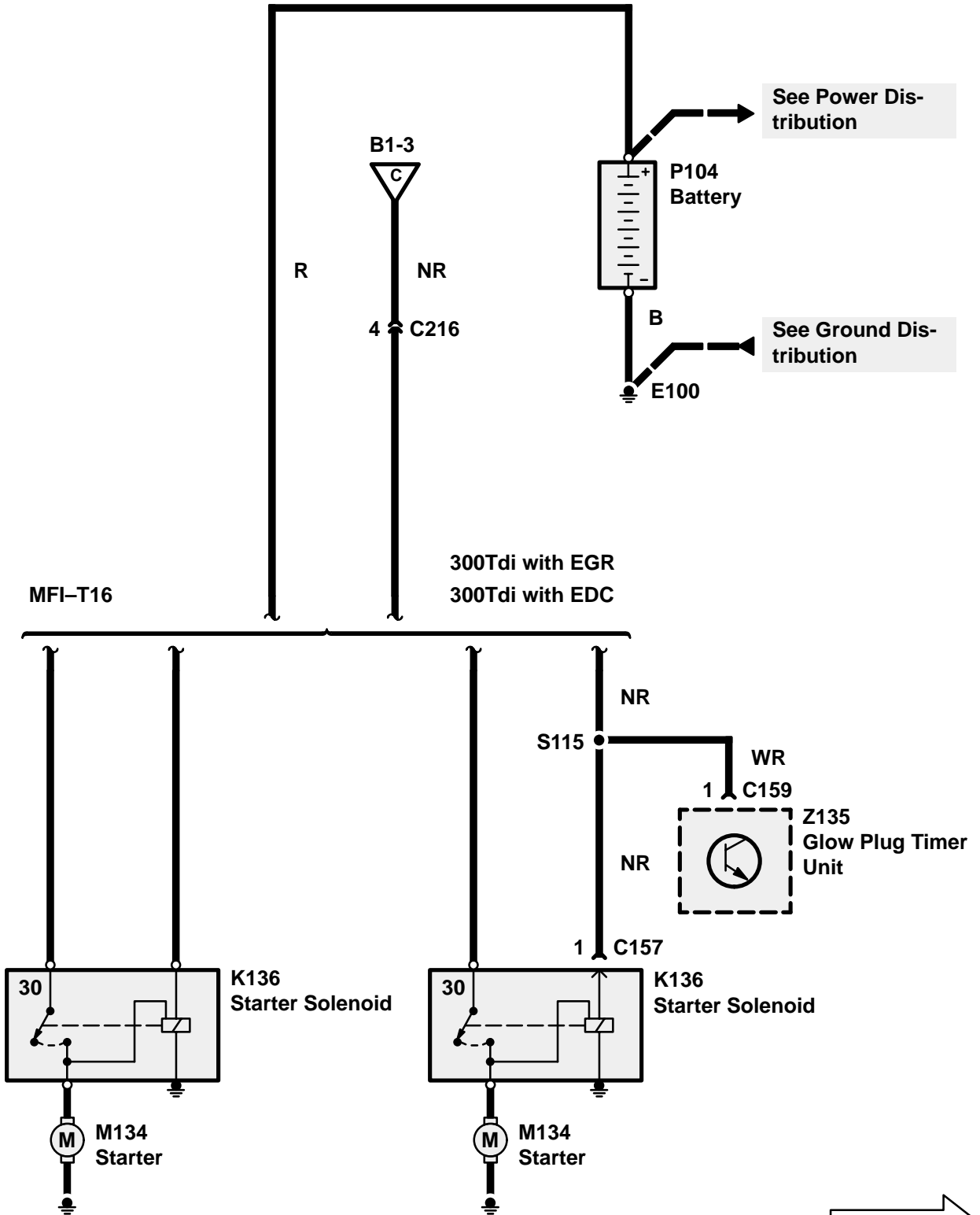


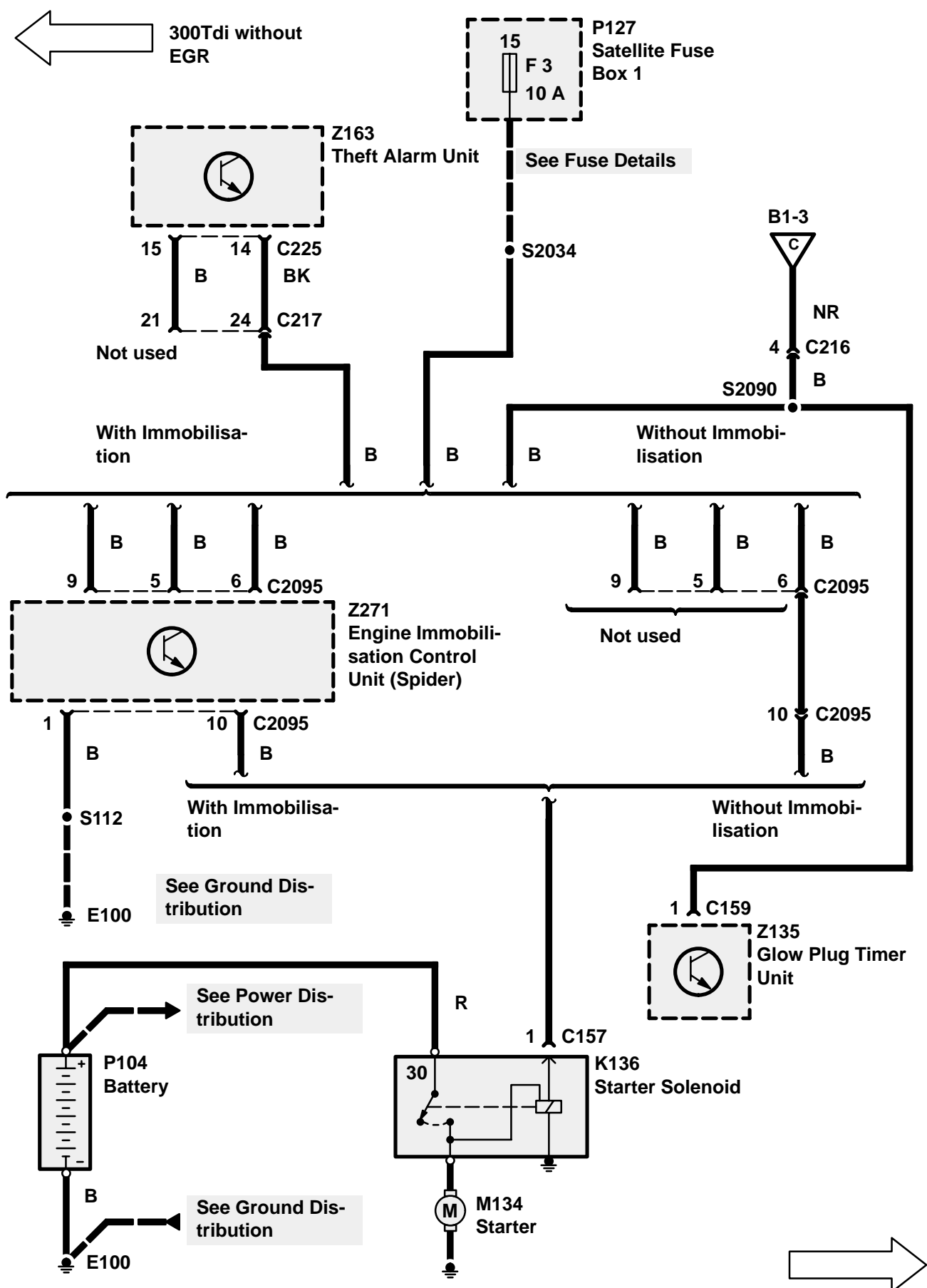




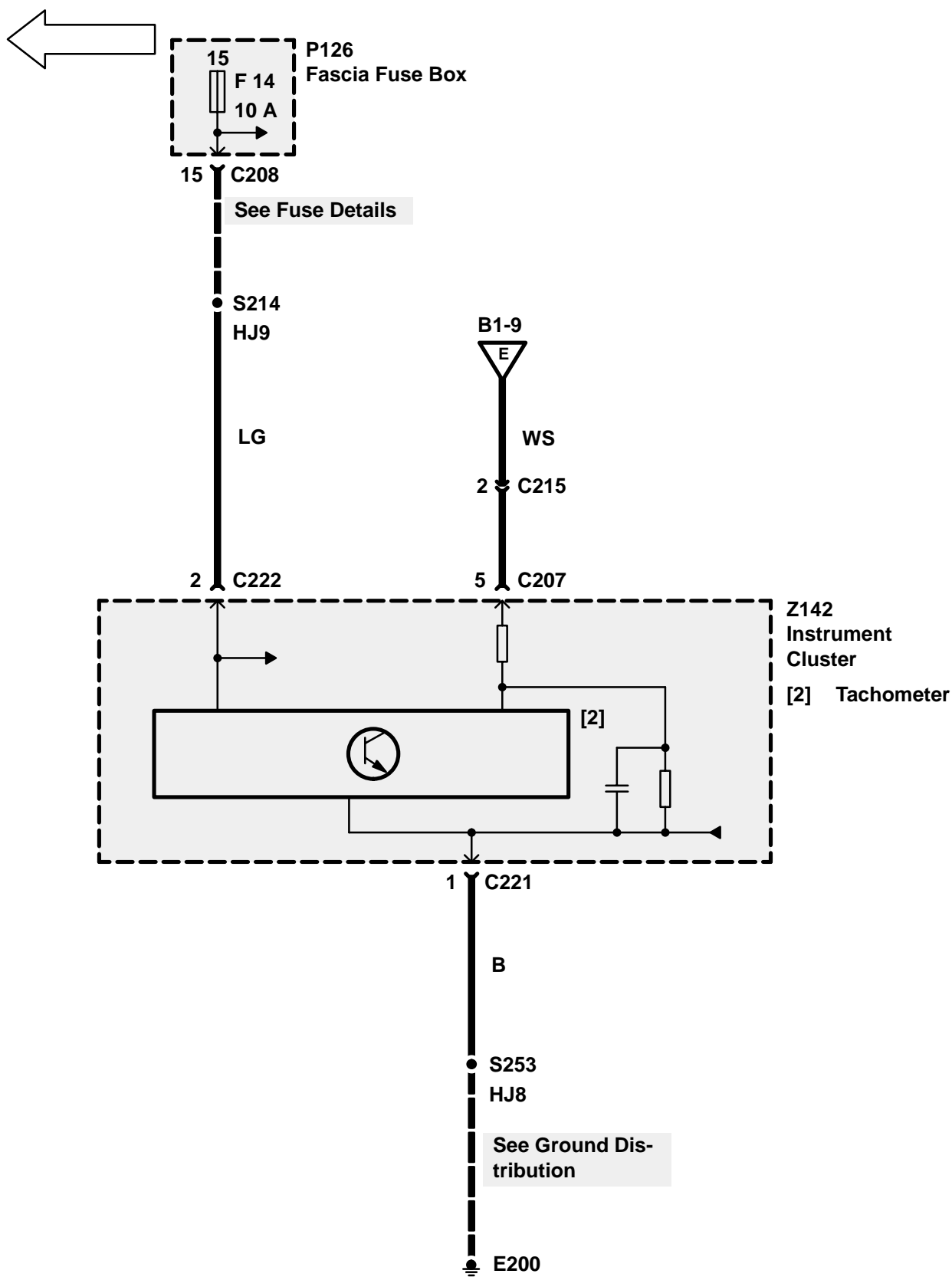


MFI-T16  
300Tdi with EGR  
300Tdi with EDC









## CIRCUIT OPERATION

### Cruise Control Switch (MFI–V8) (MFI–T16) (300 Tdi without EDC)

With the Cruise Control Switch (X115) on, voltage from Fuse F18 is applied to the Cruise Control ECU (Z121), Cruise Control Lockout Relay (K110) (Automatic), Speed Trip Module (Z164) (Manual), and the Steering Wheel Cruise Switches (X266) through the WY wire, Rotary Coupler (Z104) and PB wire. The Cruise Control ECU (Z121) is grounded at terminal 8 through the B wire to E201.

### Cruise Control Switch (300 Tdi with EDC)

With the Ignition Switch (X134) in position II, battery voltage is applied to the Cruise Control Switch (X115) through the closed switch contacts of the Cruise Control Disable Relay (K234). The Engine Control Module (ECM) (Z132) applies ground to the coil of the Cruise Control Disable Relay (K234) if an engine fault is detected. The relay energises, opening the switch contacts. The battery supply to the Cruise Control Switch (X115) is interrupted, disabling the Cruise Control System.

With the Cruise Control Switch (X115) on, voltage from Fuse F18 is applied to the Cruise Control ECU (Z121), Cruise Control Lockout Relay (K110) (Automatic), Speed Trip Module (Z164) (Manual), and the Steering Wheel Cruise Switches (X266) through the WY wire, Rotary Coupler (Z104) and PB wire. The Cruise Control ECU (Z121) is grounded at terminal 8 through the B wire to E201.

### Cruise Control Vacuum Pump (M103)

With the Cruise Control Switch (X115) on, voltage is applied to the Cruise Control Vacuum Pump (M103) through the WU wire. When a cruise speed is set, the Cruise Control ECU (Z121) applies ground through the BR wire to operate the pump motor and applies ground through the BY wire to close the normally open solenoid valve in the pump. The pump applies vacuum to the actuator.

### SET/ACCEL

To set a cruise speed, the Cruise Control Switch (X115) must be on and vehicle speed must exceed 28 mph (45 km/h). When the SET/ACCEL Switch is depressed under these conditions, voltage from Fuse F18 is applied to terminal 3 of the Cruise Control ECU (Z121) through the closed Cruise

Control Switch (X115) and Steering Wheel Cruise Switches (X266), causing the vacuum pump to operate. When the SET/ACCEL Switch is released, voltage is removed from terminal 3, signalling the ECU to set the speed.

### RES/DECEL

When the RES/DECEL Switch is depressed, voltage is applied to terminal 4 of the Cruise Control ECU (Z121). This voltage signals the ECU to disengage the system and the vehicle slows down. When the switch is depressed a second time, voltage is again applied to the ECU and the vehicle returns to the previously set speed.

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**Speed Input**

Terminal 11 of the Cruise Control ECU (Z121) monitors the Vehicle Speed output signal from the Instrument Cluster (Z142) through the YK wire. This signal is a pulsing voltage, and its frequency changes with vehicle speed.

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**System Disable**

The Cruise Control System can be disabled in one of four ways:

6. The Cruise Control Switch (X115) is put in the 0 position, removing power from the Cruise Control ECU (Z121) and vacuum pump and erasing the set speed memory.
7. The RES/DECEL Switch is depressed, signalling the Cruise Control ECU (Z121) to disengage the system.
8. The brake pedal is depressed and a vacuum valve in the Brake Switch Vent Valve opens (X112). This vents vacuum to the actuator valve and releases the throttle.
9. The Voltage applied to Cruise Control ECU (Z121) terminal 9 is interrupted, causing the Cruise Control ECU (Z121) to turn off the vacuum pump and de-energise the vacuum solenoid valve. This voltage path is interrupted when the brake pedal is depressed, the Clutch Pedal is depressed, or the vehicle is in Park or Neutral. With the brake pedal depressed, the Brake Switch Vent Valve (X112) moves to 1 and the circuit is interrupted. With the vehicle in Park or Neutral, the Park/Neutral Position Switch (X167) energises the Cruise Control Lockout Relay (K110) by grounding the relay's coil. The relay then opens its contacts, interrupting the circuit. With the clutch pedal depressed, the Clutch Switch (X200) moves to 1 and the circuit is interrupted.

NOTE: For 300 Tdi vehicles equipped with an EDC Diesel engine, the Cruise Control System can also be disabled by the Engine Control Module (ECM) (Z132) when an engine fault has been detected.

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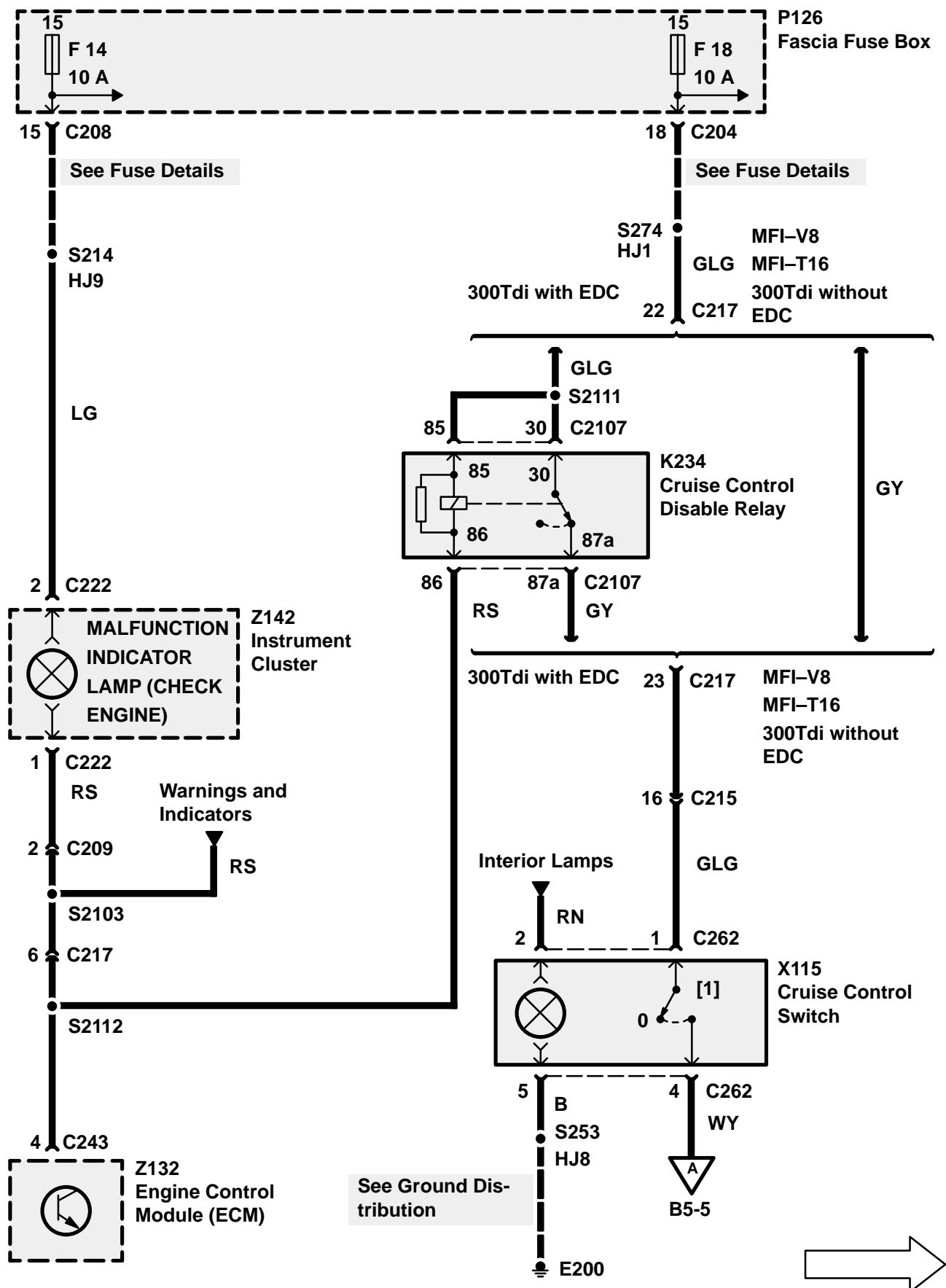
### Road Test

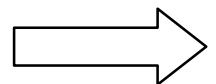
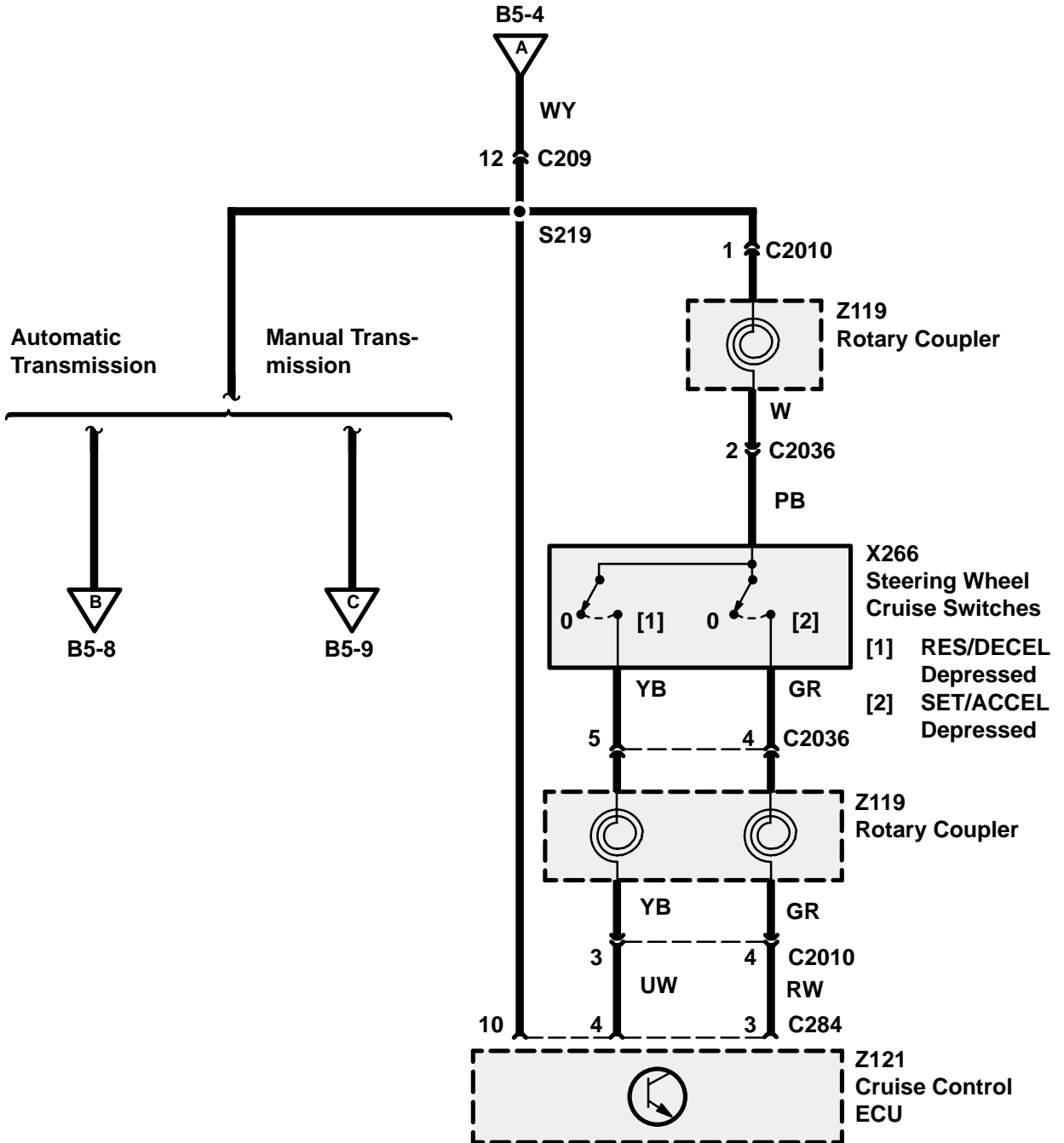
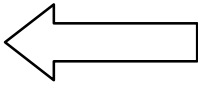
CAUTION: DO NOT ENGAGE CRUISE CONTROL WHEN VEHICLE IS BEING USED IN LOW TRANSFER GEARS

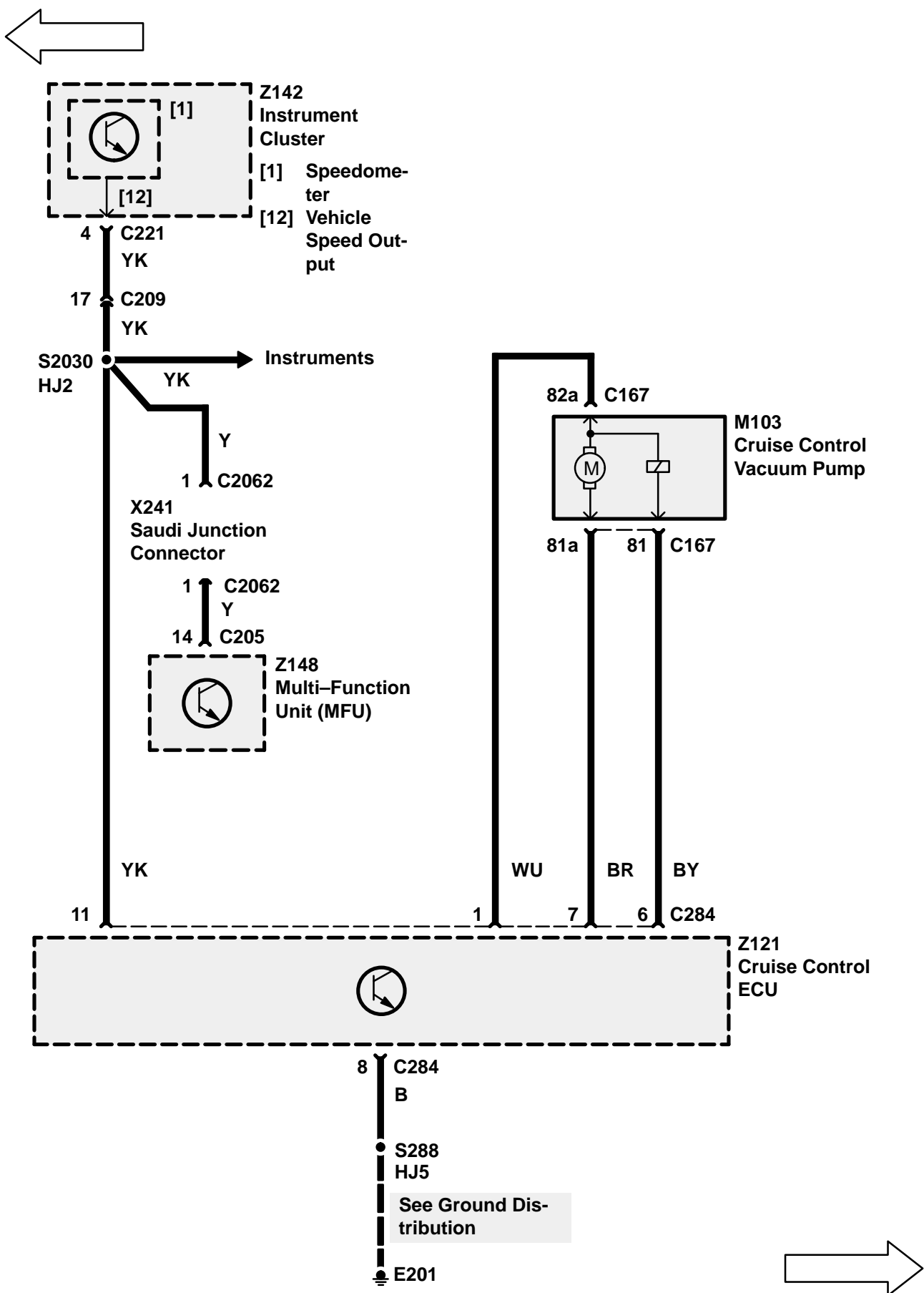
WARNING: The use of cruise control is not recommended on winding, snow covered or slippery roads, or in heavy traffic conditions where a constant speed cannot be maintained.

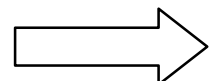
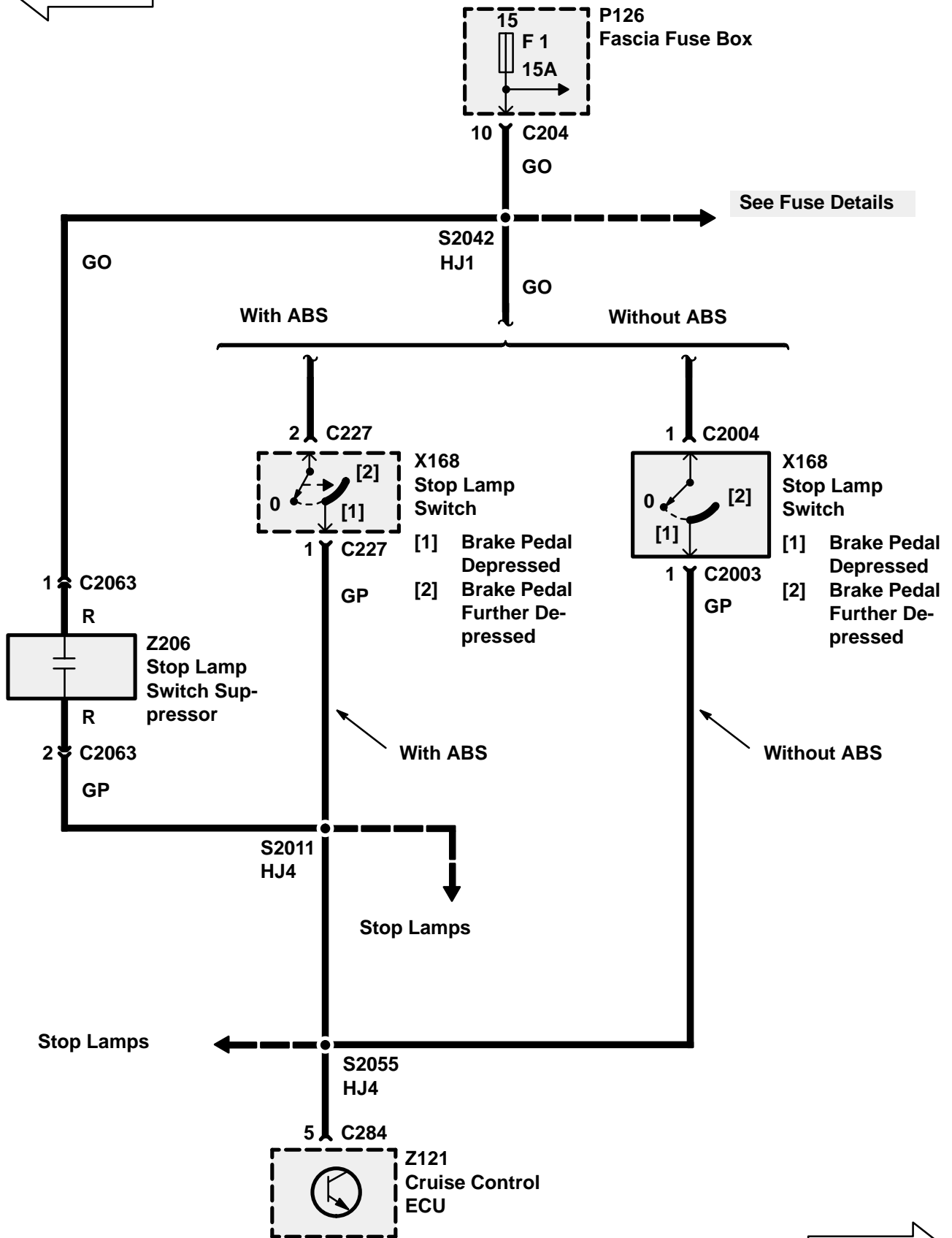
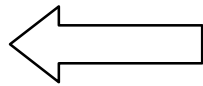
1. Start the engine and depress the Cruise Control Switch (X115) to activate the Cruise Control System. Accelerate to approximately 30 mph (50 km/h) and press the SET/ACCEL Switch. Immediately release the switch and remove foot from the accelerator pedal. The vehicle should maintain the speed at which the SET/ACCEL Switch was pressed.
2. Press the SET/ACCEL Switch and hold at that position. The vehicle should accelerate smoothly until the switch is released. The vehicle should now maintain the new speed at which the SET/ACCEL Switch was released.
3. Press the RES/DECEL Switch while the vehicle is in the cruise control mode. The cruise control should disengage. Slow to approximately 35 mph (55 km/h) and press the RES/DECEL Switch. Immediately release the switch and remove foot from the accelerator. The vehicle should smoothly accelerate to the previously set speed. Increase speed using the accelerator pedal. Releasing the pedal should return the vehicle to the previously set speed.
4. Depressing the brake pedal should immediately disengage the Cruise Control System and return the vehicle to driver's control at accelerator pedal. Press the RES/DECEL Switch and the vehicle should accelerate to the previously set speed without operation of the accelerator pedal.
5. Press the RES/DECEL Switch and allow the vehicle to decelerate to below 26 mph (42 km/h). Press the RES/DECEL Switch and the Cruise Control System should remain disengaged.
6. Press the SET/ACCEL Switch below 28 mph (45 km/h) and the Cruise Control System should remain disengaged. Accelerate the vehicle above 28 mph (45 km/h), press the RES/DECEL Switch and remove foot from the accelerator pedal. The vehicle should smoothly adjust to the previously memorized speed.
7. Pressing the Cruise Control Switch (X115) should immediately disengage the Cruise Control System and erase the previously set speed from ECU memory.

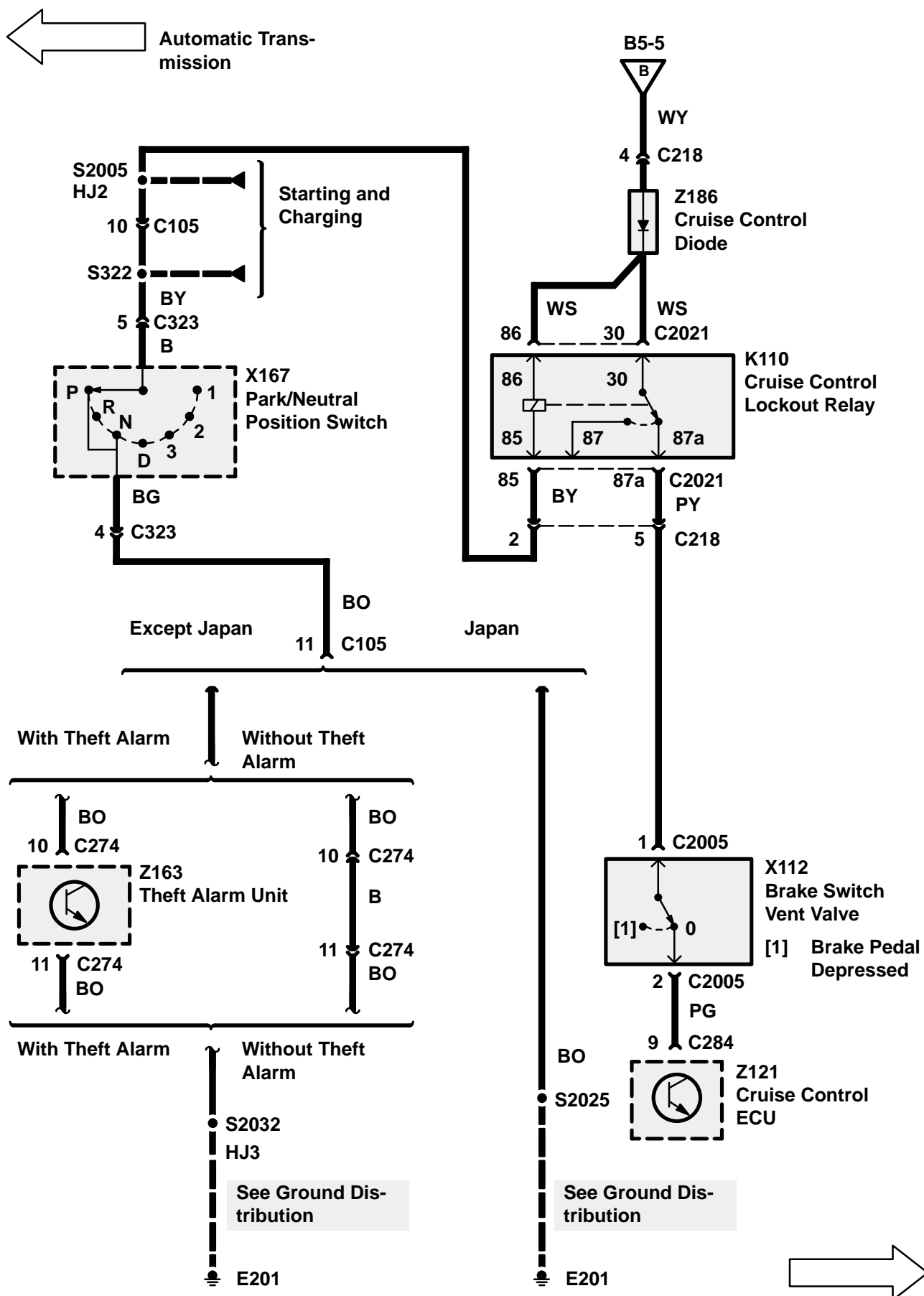


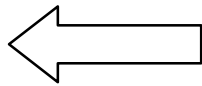




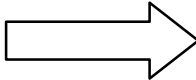
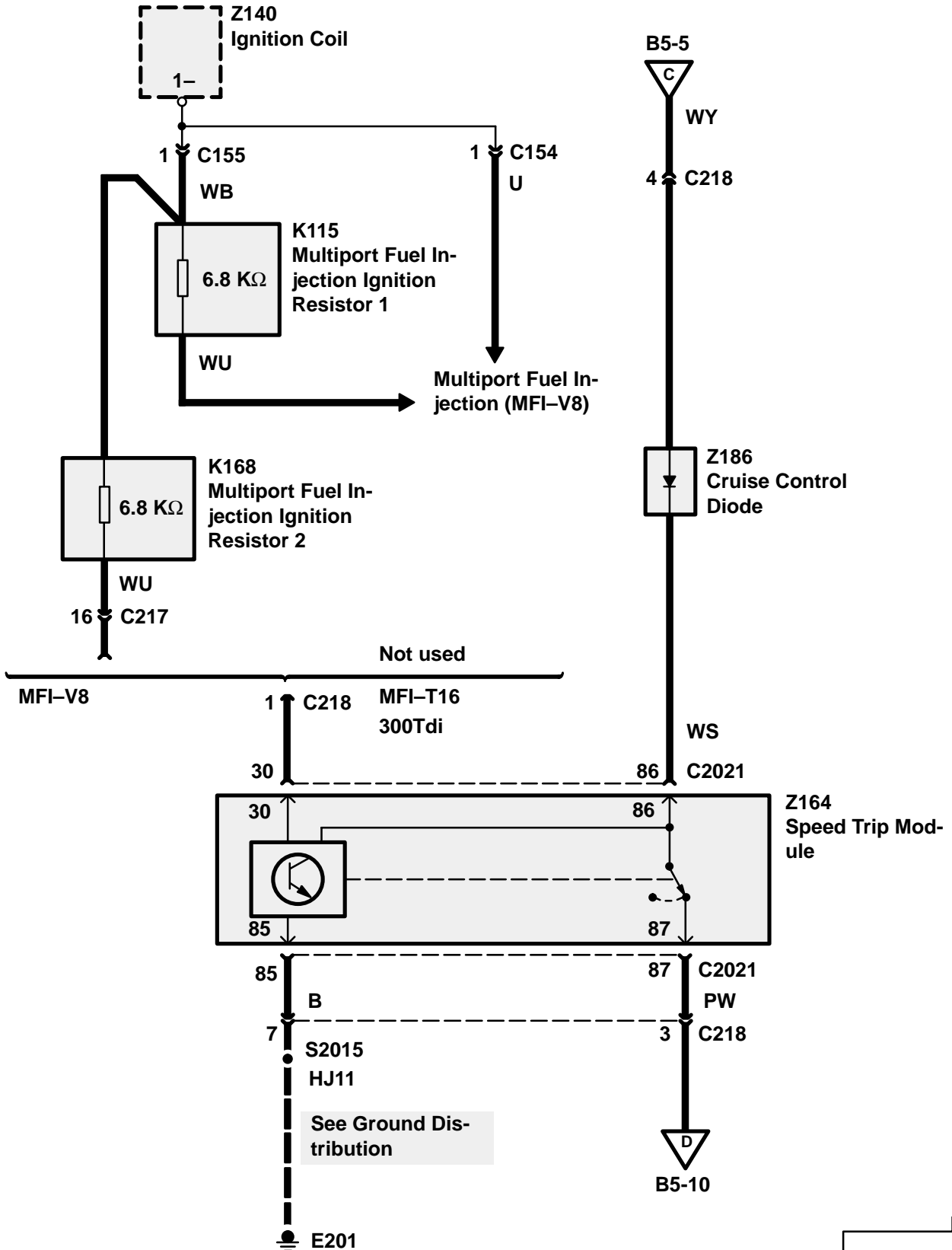


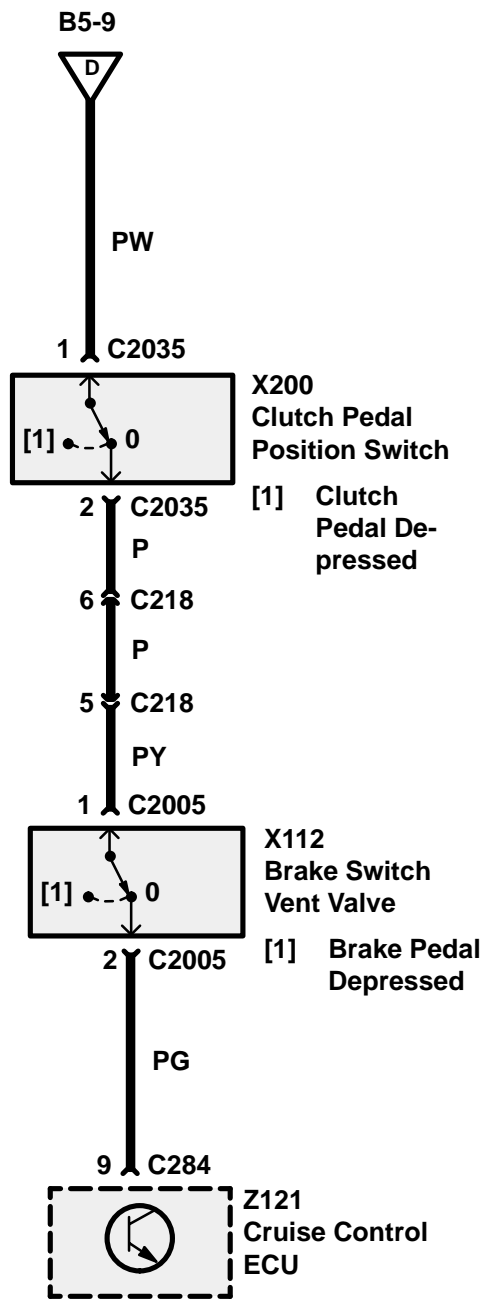






Manual Transmission





## CIRCUIT OPERATION

### Selector Interlock

When the gear selector is in the park position, the solenoid inside the Transmission Range Selector Switch (Z110) is de-energised and prevents the selector from being moved into another gear. To free the selector, the Ignition Switch (X134) must be in position II and the brake pedal must be depressed. When this occurs, voltage from Fuse F1 is applied to the Transmission Range Selector through the closed Stop Lamp Switch (X168). The solenoid inside the Transmission Range Selector Switch is grounded at E201 through the selector switch, the KS wire and the B wire. The solenoid now energises, freeing the selector.

### Ignition Key Interlock

On vehicles equipped with the interlock safety feature, the vehicle must be in park and the transfer case in high or low gear before the key can be removed from the ignition. If the gear selector or transfer gear is out of gear, the key must be cycled before removal.

If the vehicle is not in park, voltage from Fuse F12 is applied to the Key Barrel Switch (X230) through the closed contacts of the Transmission Range Selector Switch (Z110). When the ignition switch is placed in the 0 position, the Key Barrel Switch (X230) closes to energise the solenoid and prevent key removal.

If the key is in the ignition and the transfer box is in the neutral position, Interlock Relay 1 (K153) is de-energised since the relay coil is not grounded by the Transfer Box Position Switch (X175). When the relay is de-energised, voltage is applied to the Key Barrel Switch (X230) through the relay's switch contacts and the Key-In Switch (X229) causing the solenoid to energise and prevent key removal.

If the Transfer Box is in the "H" or "L" position, the Interlock Relay 1 (K153) is energised, since the relay coil is grounded by the Transfer Box Position Switch (X175). When the relay is energised, voltage to the Key Barrel Switch (X230) is interrupted. If the vehicle is in Park, the Transmission Range Selector Switch (Z110) contacts are open. When the switch contacts are open, voltage to the Key Barrel Switch (X230) is also interrupted. The Ignition Key Lock Solenoid (K191) is then disabled, allowing removal of the key.

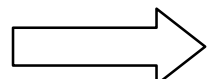
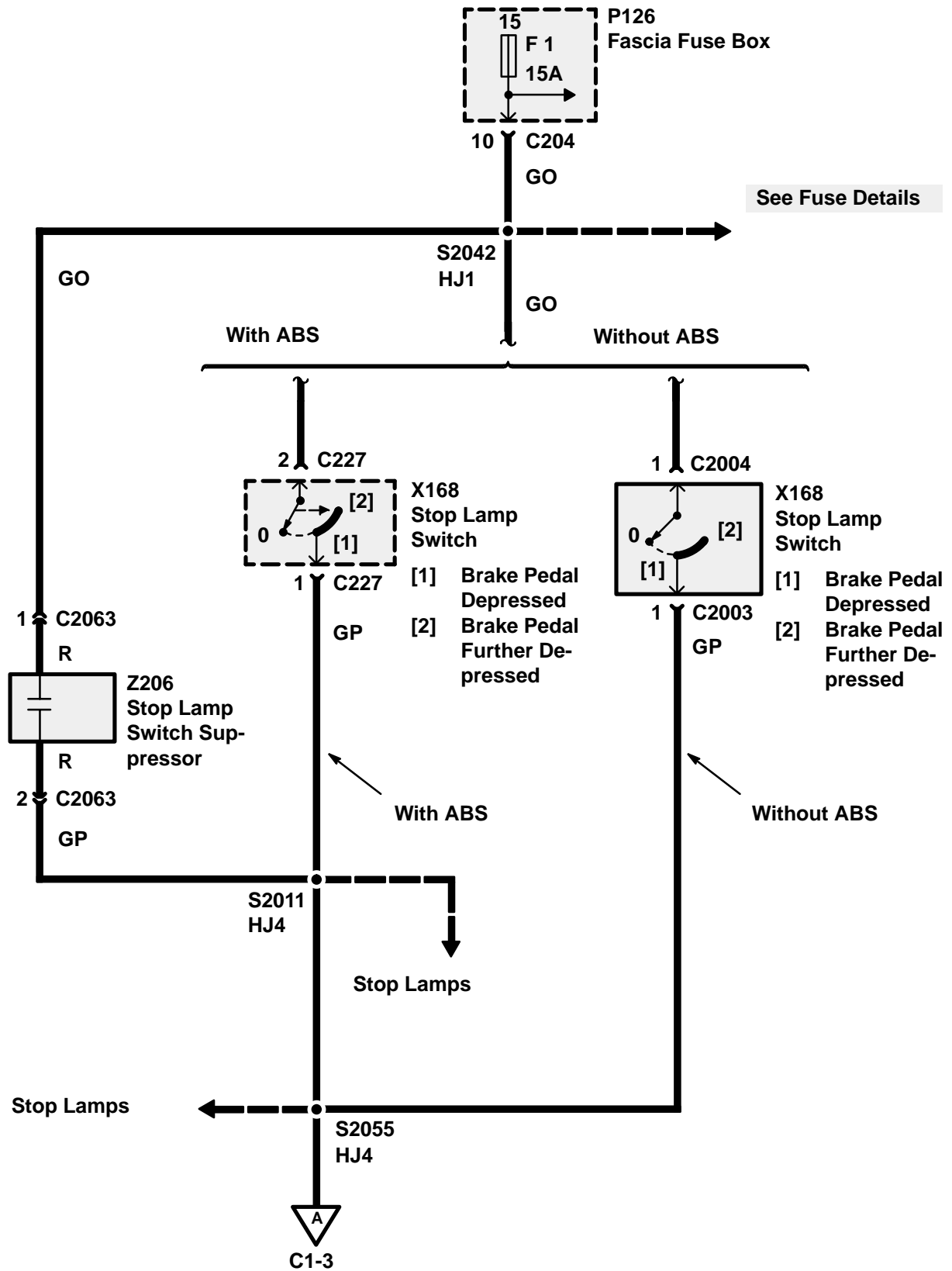
### Transfer Box Interlock

The Transfer Box Interlock safety feature is designed to prevent the transfer case shifter from being shifted out of "H" or "L" unless the vehicle's gear selector is in the neutral position.

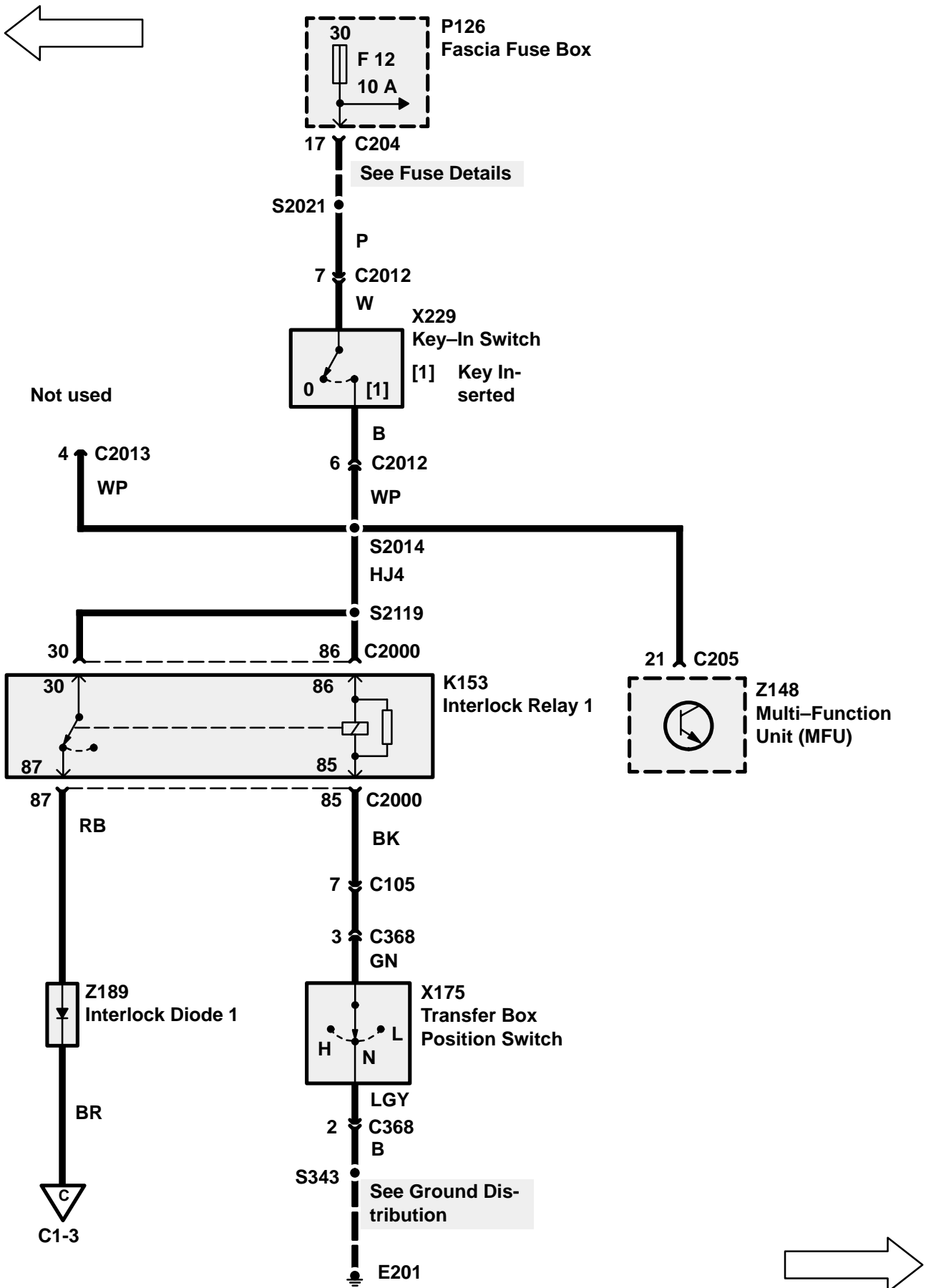
When the gear selector is placed in the neutral position, voltage is applied to the Interlock Relay 2's coil through the Transmission Range Selector Switch (Z110). The relay's coil is grounded through the Park/Neutral Position Switch (X167).

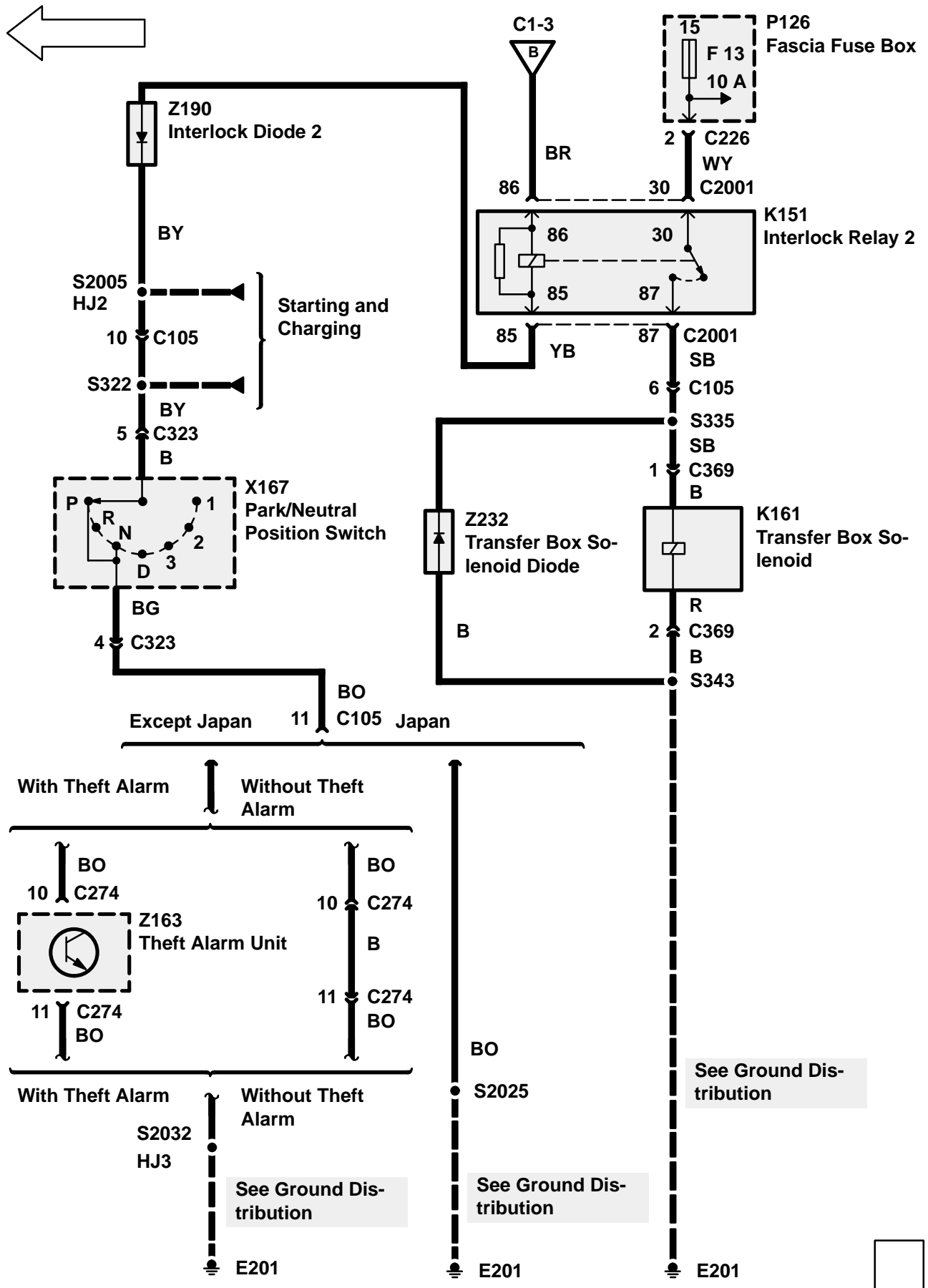
Interlock Relay 2 now energises and applies voltage from Fuse F13 to the Transfer Box Solenoid (K161). When the Transfer Box Solenoid (K161) is energised, the transfer box shifter can be operated.

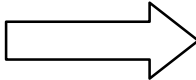
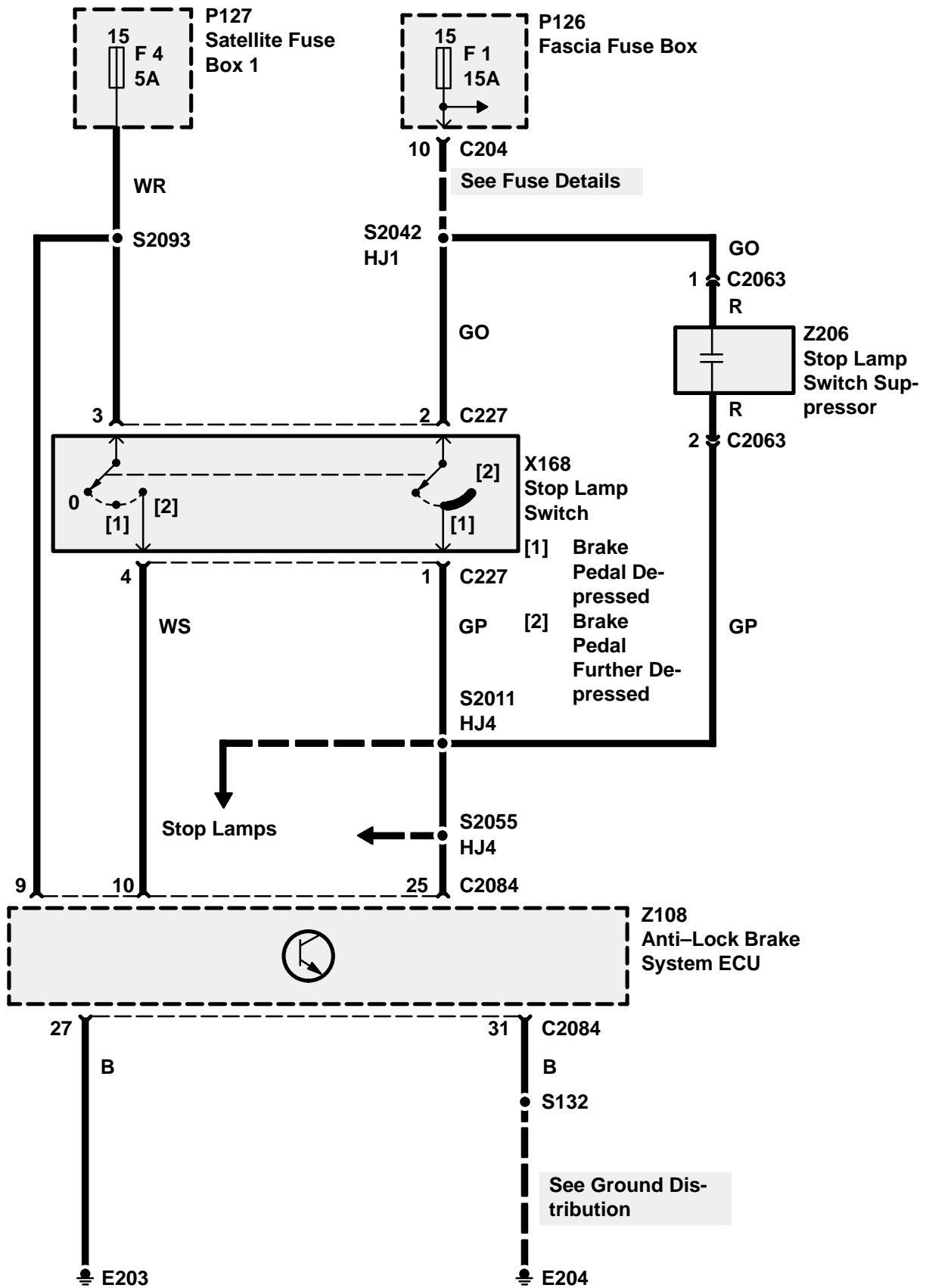


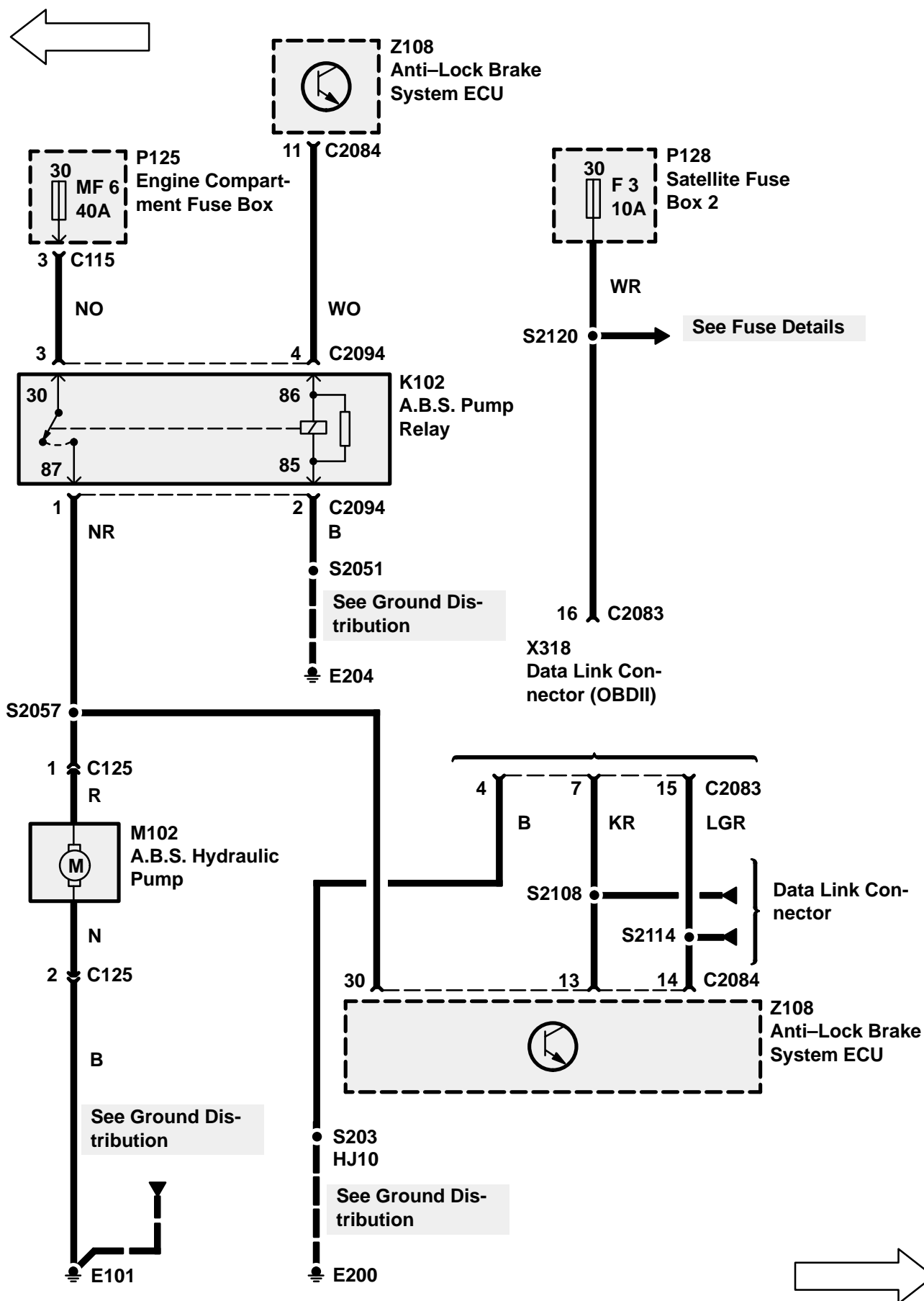




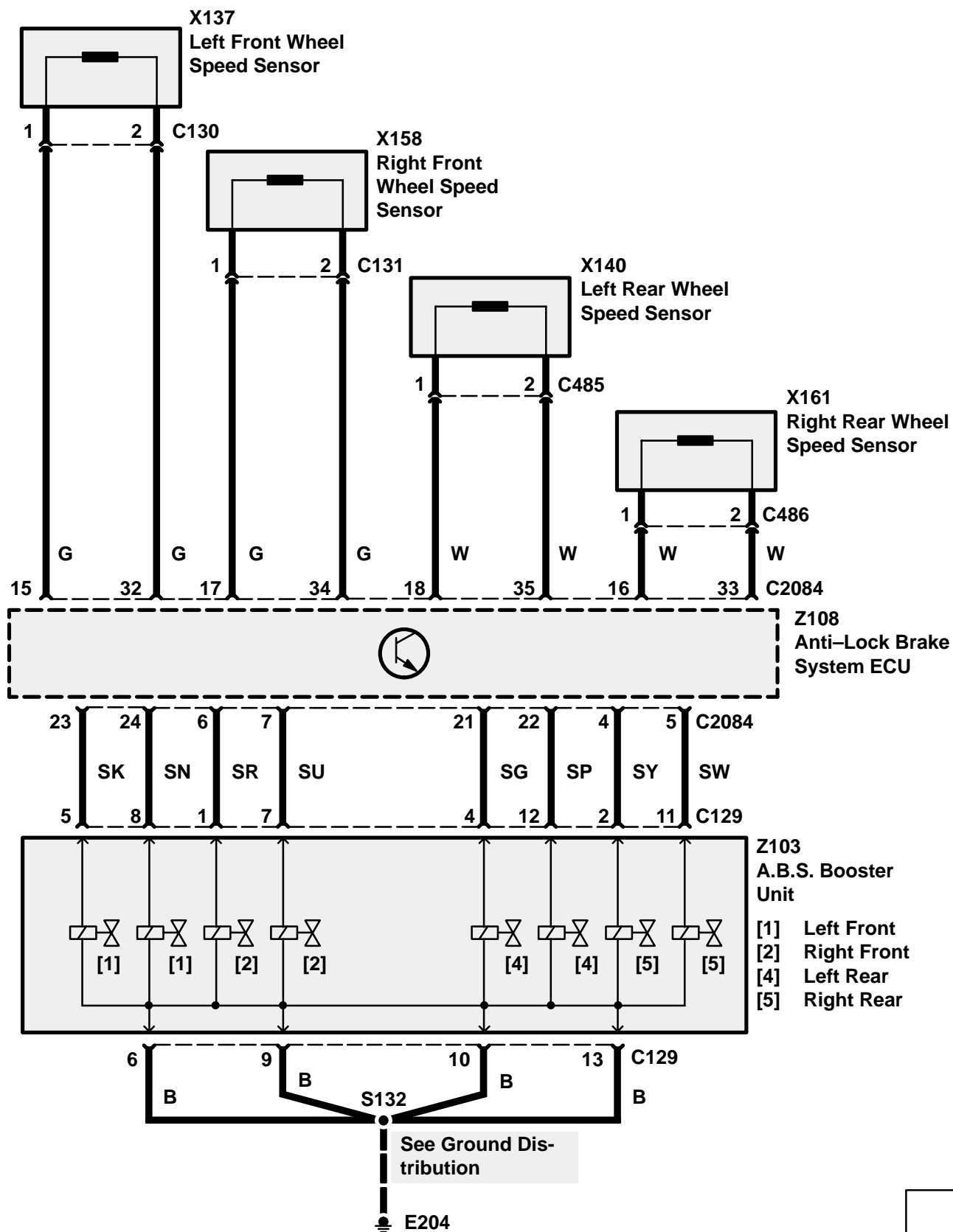
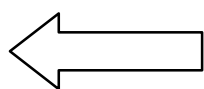




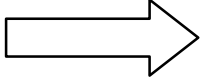
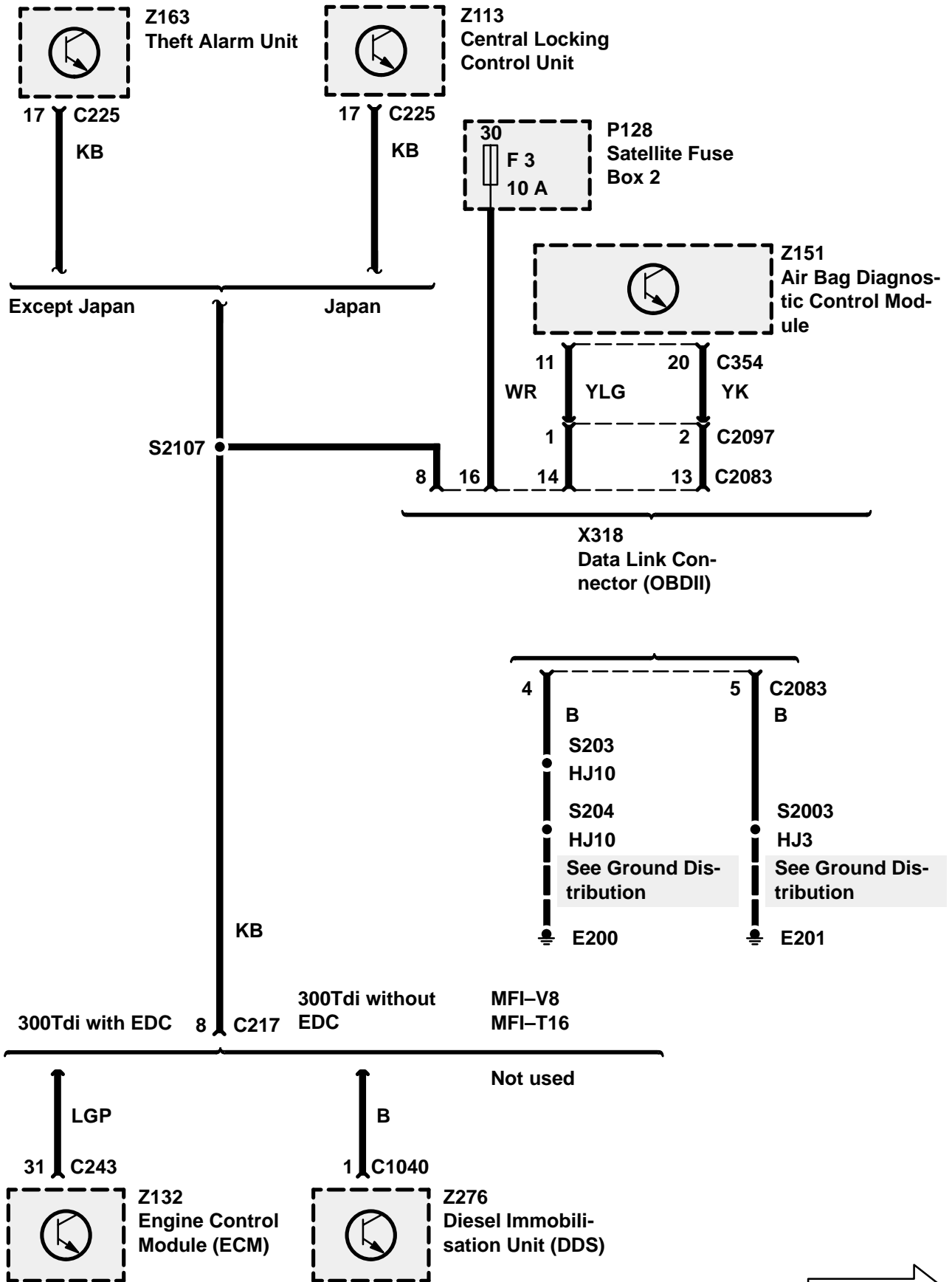


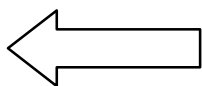




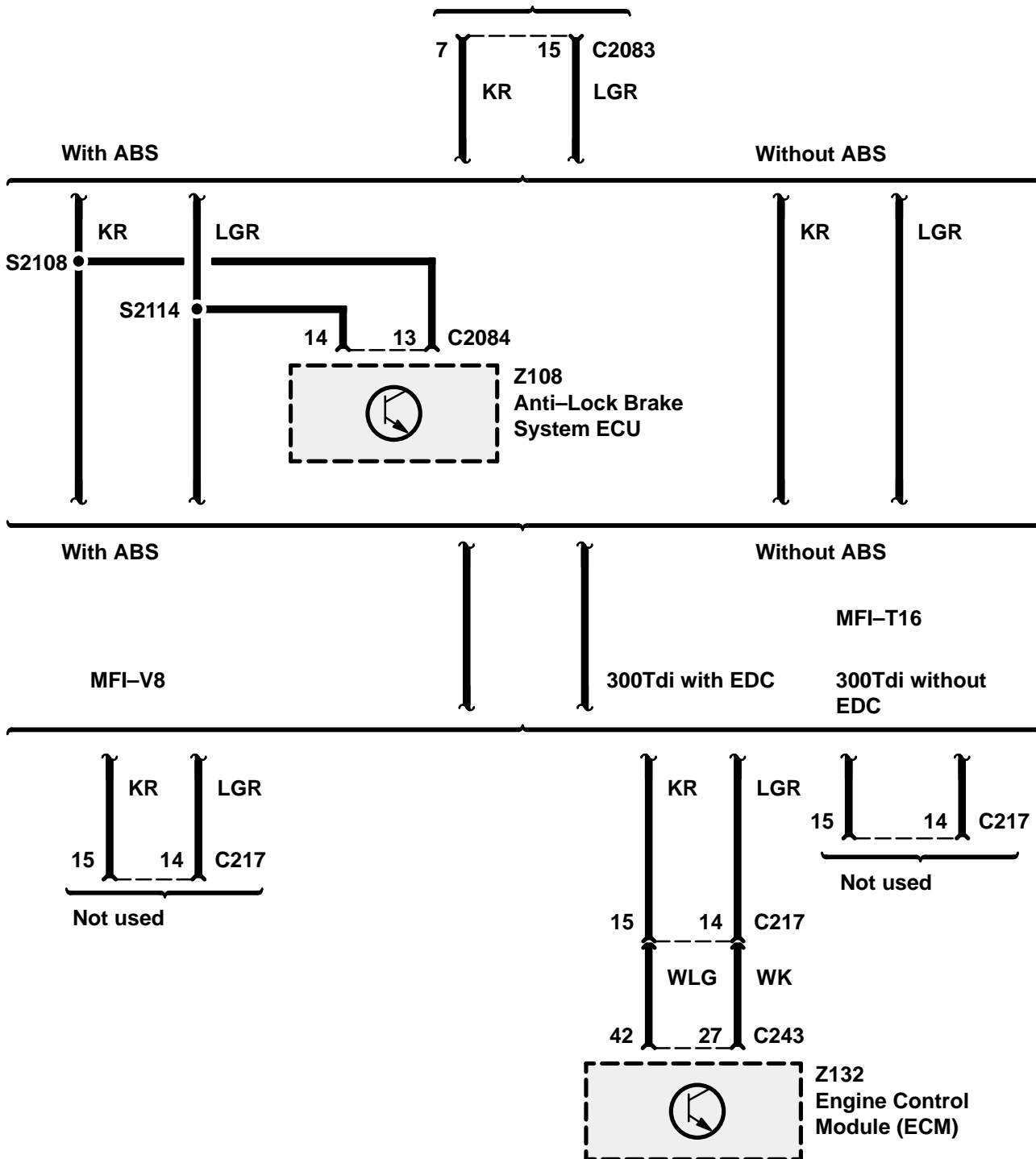








X318  
Data Link Con-  
nector (OBDII)



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## CIRCUIT OPERATION

### Speedometer

The Vehicle Speed Sensor (X190) sends a signal to the speedometer in the form of voltage pulses. The pulses are filtered by a Vehicle Speed Sensor Buffer inside the speedometer. The voltage alternates between battery voltage and 0 volts 6 times per wheel revolution. The speed sensor signal is also sent to the Cruise Control ECU (Z121), Multifunction Unit (MFU) (Z148) (Persian Gulf States), and the Engine Control Module (Z132).

### Tachometer

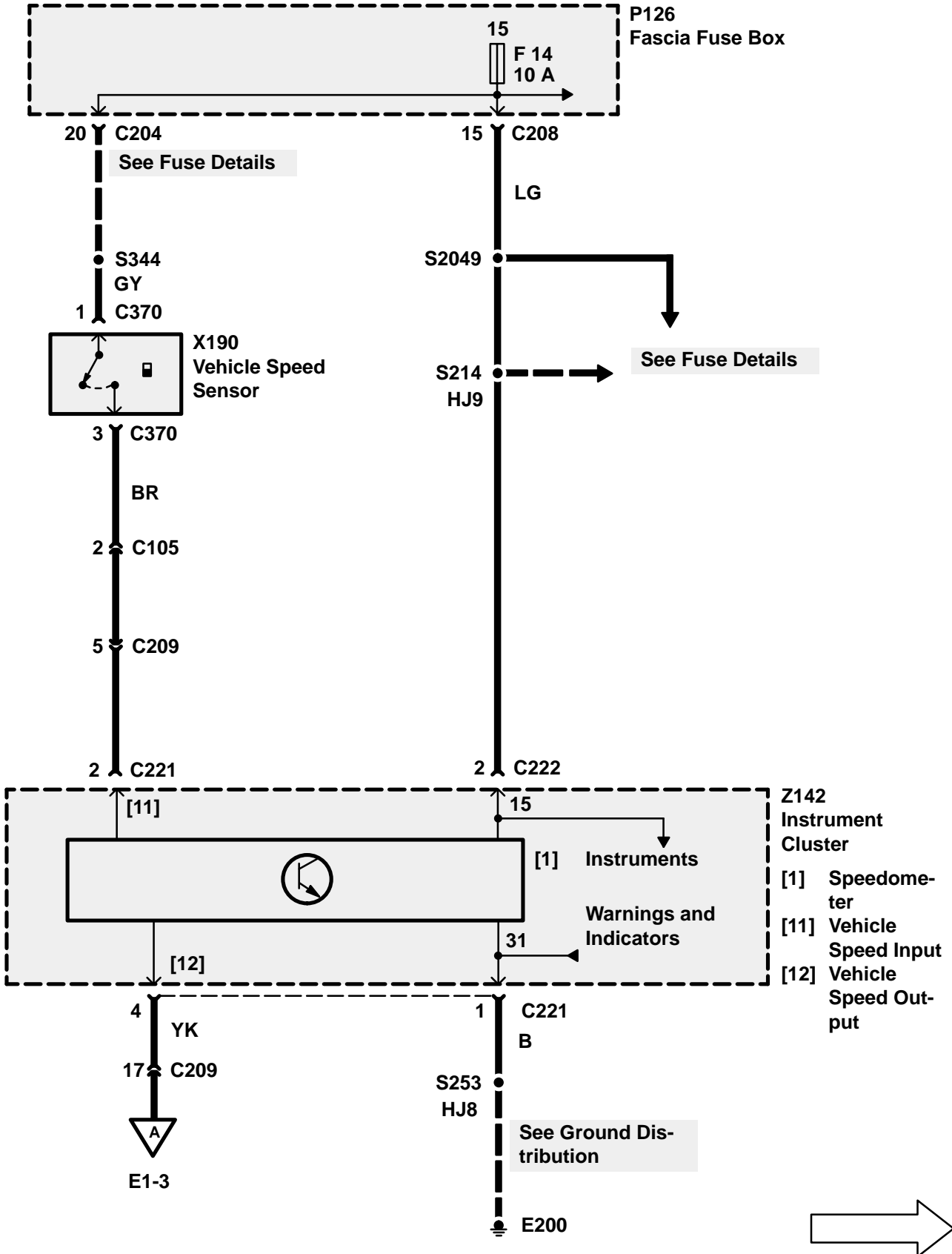
The tachometer displays engine speed in rpm. Voltage pulses are taken from the Generator (Z106) and are generated when the engine drive belt turns the Generator pulley. The tachometer responds to the frequency of the voltage pulses, which increases proportionally to that of the engine speed.

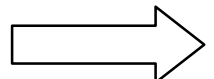
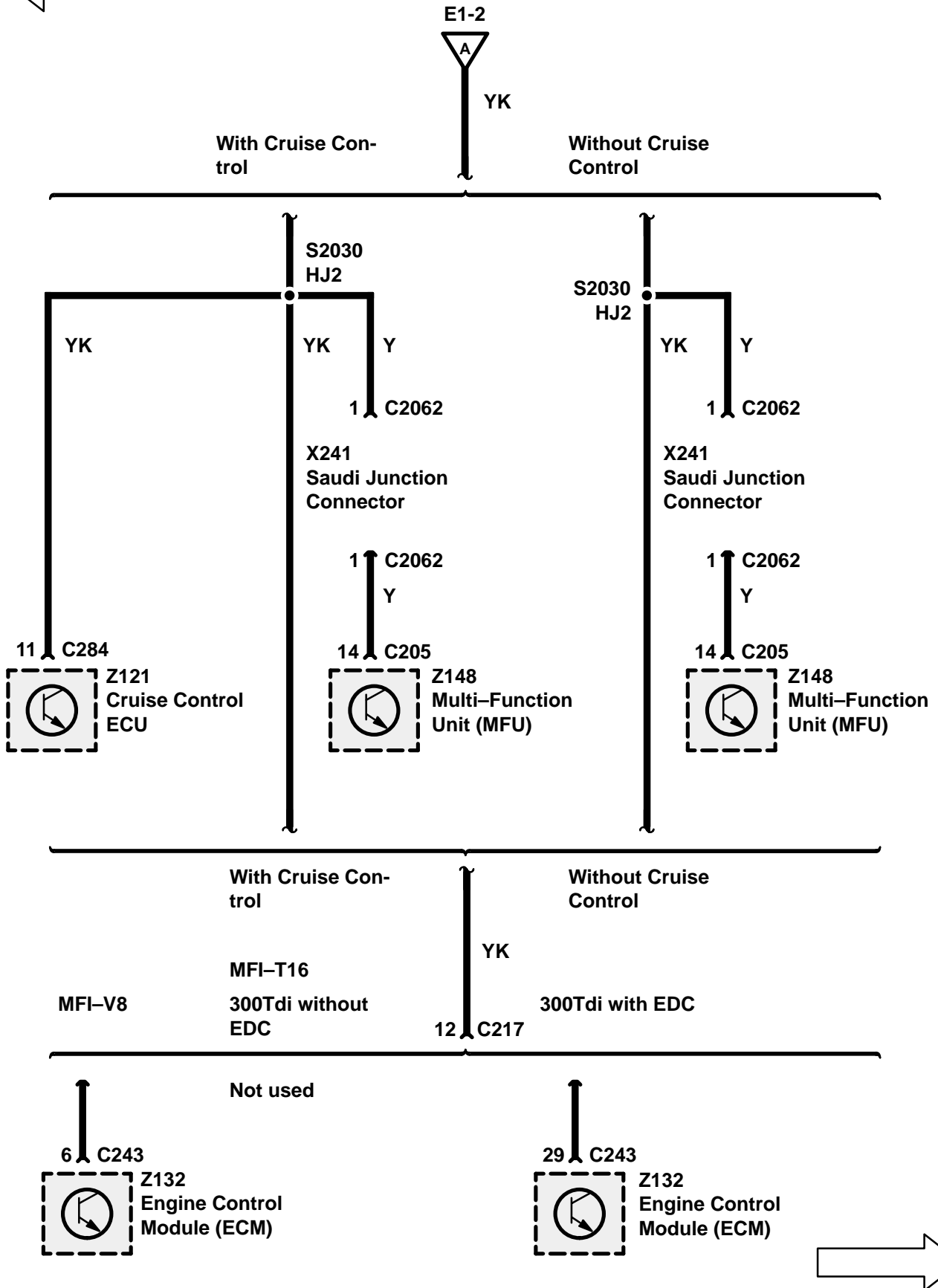
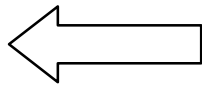
### Engine Coolant Temperature Gauge

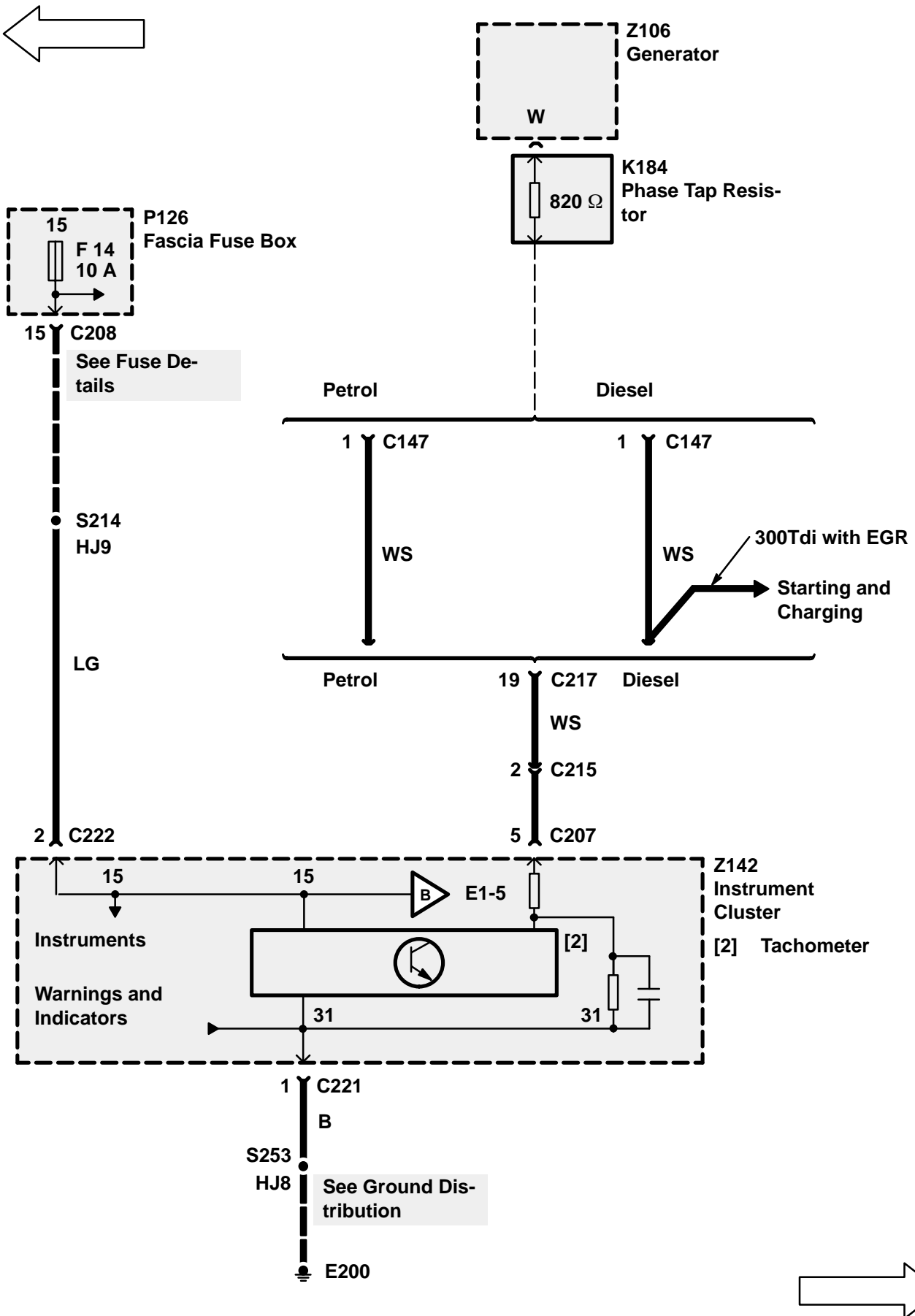
The Engine Coolant Temperature Gauge Sensor (X114) has approximately 136 ohms resistance when the coolant temperature is low. As coolant temperature increases, the resistance of the sensor decreases. This varying resistance causes the current through the sensor to change and the gauge to register the temperature. When the coolant is hot, the resistance of the sensor is approximately 17 ohms.

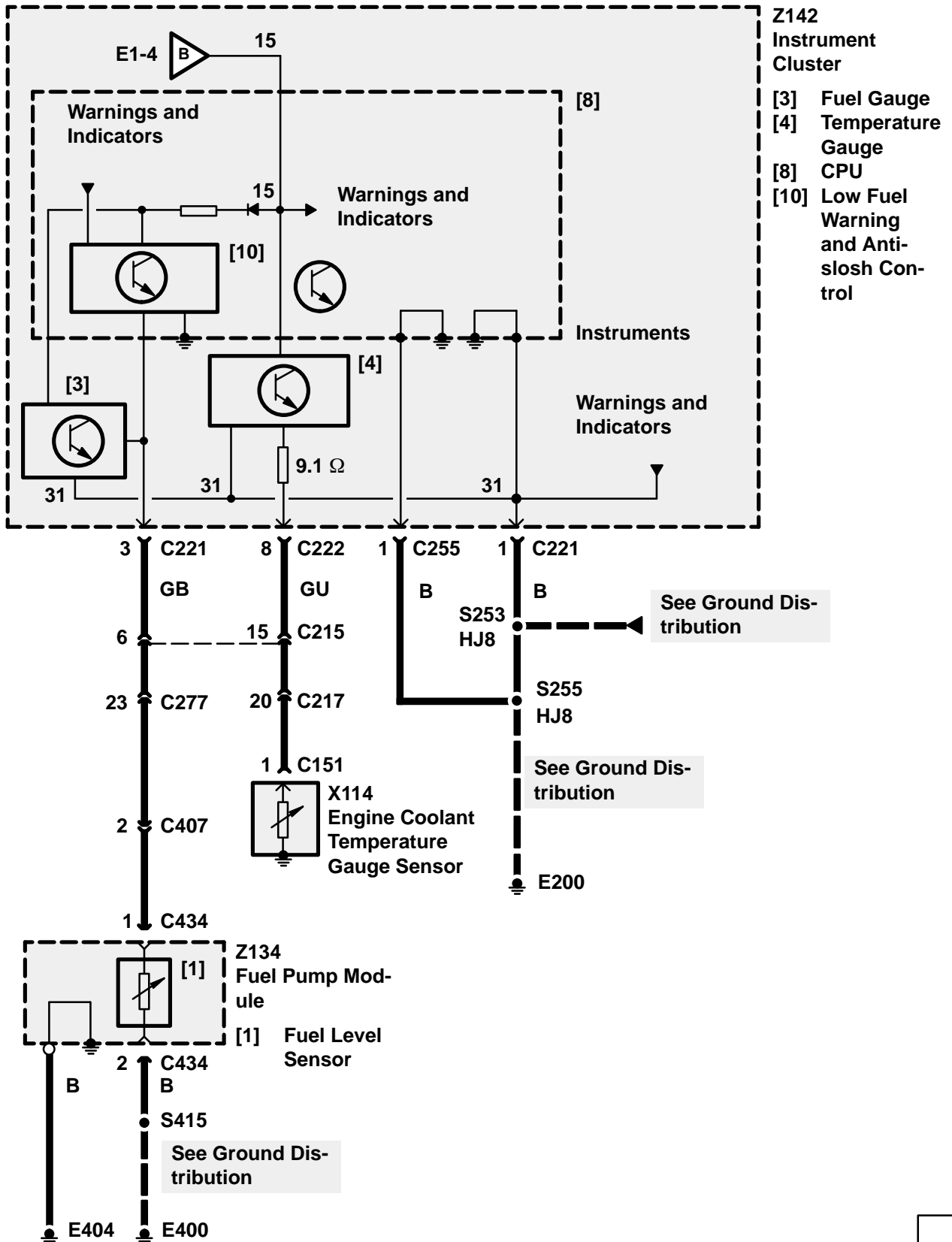
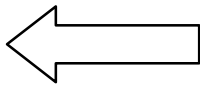
### Fuel Gauge

When the fuel tank level is low, the resistance of the fuel gauge sender is approximately 245 ohms. As the fuel level increases, the resistance of the sender decreases, causing the gauge to register the change. When the fuel tank is full, the resistance of the sender is approximately 19 ohms. When the fuel gauge sender's resistance falls below approximately 25 ohms (6 liters/1.5 US gallons), the fuel warning light will illuminate to warn the driver.









## CIRCUIT OPERATION

### Hazard Indicator

If the Hazard Switch (X220) is depressed, a pulsing voltage is applied to the Hazard Indicator which is permanently grounded by ground E200.

### Direction Indicator

If the Direction Indicator Switch (X116) is turned on, a pulsing voltage is applied from the Flasher Unit (Z128) to the Direction Indicator which is permanently grounded by ground E200.

### Trailer Indicator

With the Direction Indicator Switch (X116) turned on, the Flasher Unit (Z128) also applies a pulsing voltage to the Trailer Indicator which is permanently grounded by ground E200.

### Main Beam Indicator

With the Headlamps turned on by the Main Lighting Switch (X145), battery voltage is applied to the Main Beam Indicator which is also permanently grounded by ground E200.

## MFI-V8 and 300Tdi with EDC

### Malfunction Indicator Lamp (Check Engine)

The Malfunction Indicator Lamp (Check Engine) is grounded by the Engine Control Module (ECM) (Z132) when a diagnostic trouble code is set.

## Diesel

### Glow Plug Indicator

The Glow Plug Indicator is grounded by the Glow Plug Timer Unit (Z135) to indicate that the Glow Plugs have been activated.

### Fasten Seat Belt Indicator

#### (Japan and Gulf States Vehicles Only)

The Fasten Seat Belt Indicator receives battery voltage with the Ignition Switch (X134) in position II. The indicator is grounded through the Multi-Function Unit (MFU) (Z148) and the Driver's Seat Buckle Switch (X120). If the Driver's Seat Belt is buckled, the Driver's Seat Belt Buckle Switch opens and the Indicator turns off.

### Oil Pressure Warning Light

The oil pressure warning light receives battery voltage with the Ignition Switch (X134) in position II. If the engine oil pressure is very low, the Oil Pressure Switch (X149) will apply ground to the warning light.

### Differential Lock Indicator

The Differential Lock Indicator receives battery voltage with the Ignition Switch (X134) in position II. It is grounded by the Differential Lock Switch (X238) when the Differential is locked.

### Brake Warning Light

The brake warning light receives battery voltage with the Ignition Switch (X134) in position II. It is grounded by the Brake Fluid Level Switch (X111) when the brake fluid level is low. It may also be grounded when the Handbrake Switch (X191) is closed. On Australian vehicles the brake warning light is grounded by a 3 second timer as a bulb check.



### ABS Warning Light

The ABS warning light receives battery voltage with the Ignition Switch (X134) in position II. It is grounded by the Anti-Lock Brake System ECU (Z108) or the ABS Warning Relay (K103) in the event of an ABS problem.

### Catalyst Warning Indicator (Japan Vehicles Only)

In case of a catalyst overheat, the catalyst overheat sensors send a signal to the Catalyst Warning ECU (Z274) which then provides battery voltage to the Catalyst Warning Relay (K172). The relay is energised and provides ground to the Catalyst Warning Indicator. The Catalyst Warning Indicator is also grounded by a 3 second timer as a bulb check.

NOTE: All Catalyst Warning Indicator circuitry is provided for Gulf States vehicles, but the bulb is not fitted.

### Engine Immobilised Warning Lamp (EIWL)

#### (Except Japan and Gulf States Vehicles Only)

The EIWL receives battery voltage with the Ignition Switch (X134) in position II. It is grounded by the Theft Alarm Unit (Z163) to indicate the following conditions:

- Flashing = Immobilised
- Continuous = Immobilised (Cirrus Fail)

### Theft Alarm LED

#### (Except Japan and Gulf States Vehicles Only)

The Theft Alarm LED receives battery voltage at all times. It is grounded by the Theft Alarm Unit (Z163) to indicate the following conditions:

- Slow Flash = Immobilised or Immobilised and armed
- Rapid Flash = Perimetrically and Volumetrically armed
- Intermittent Rapid Flash = Perimetrically armed
- No Flash for 10 Seconds = Mislock
- Continuous = Driver's door open (or ignition on) and Immobilised

### Transmission/Transfer Box Oil Temperature

#### Warning Light

The transmission/transfer box oil temperature warning light is grounded by the Automatic Transmission Oil Temperature Switch (X108) when the temperature of the transmission fluid exceeds 130°C (266°F). The warning light is also grounded by the Transfer Box Oil Temperature Switch (X174) when the temperature of the transfer box fluid exceeds 145°C (266°F). On Australian vehicles the warning light is grounded by a 3 second timer as a bulb check.

### Low Fuel Warning Indicator

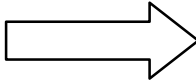
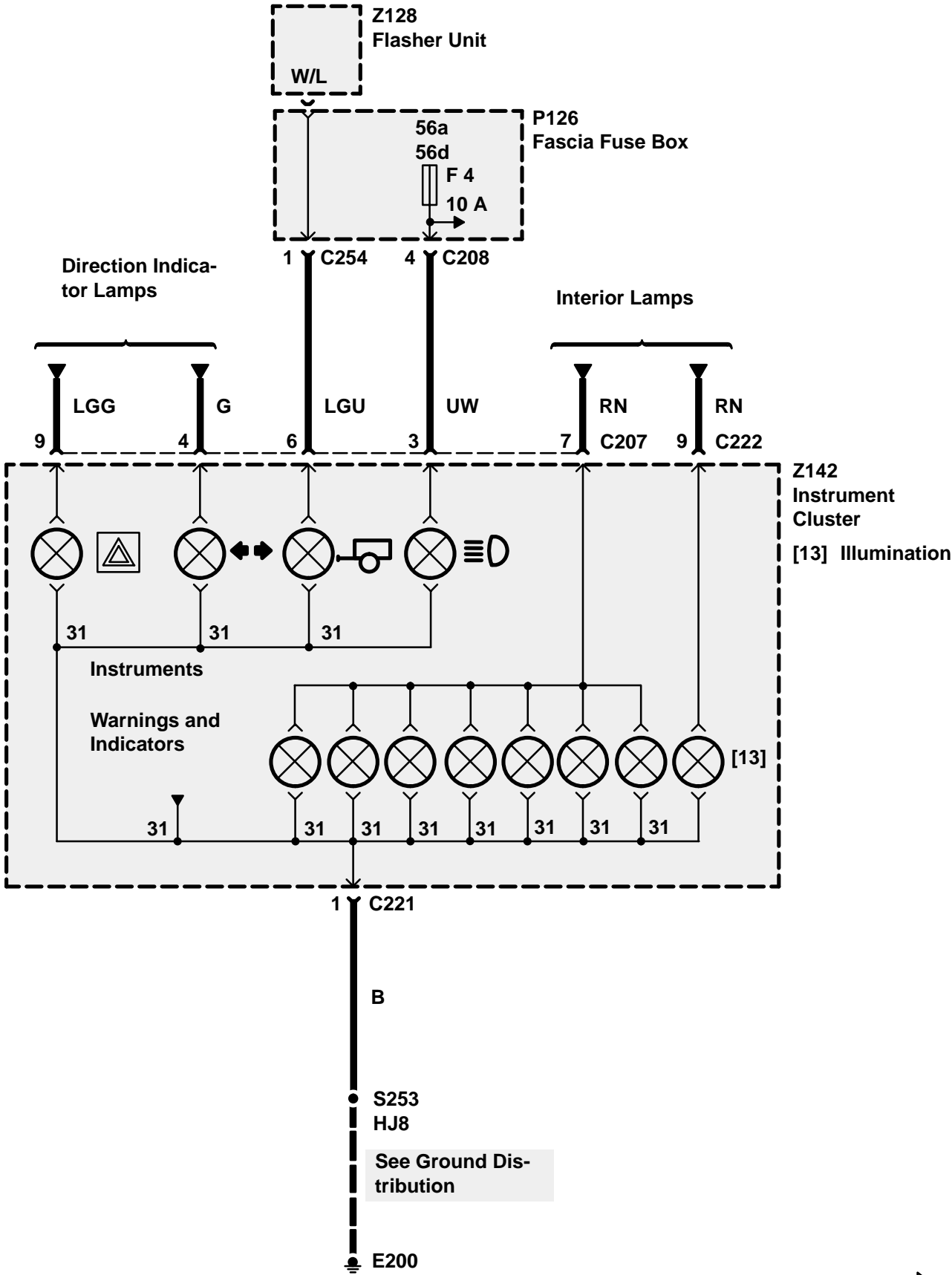
When the fuel gauge sender's resistance falls below approximately 25 Ohms (6 liters/1.5 US gallons), the Low Fuel Warning Indicator will illuminate to warn the driver.

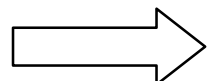
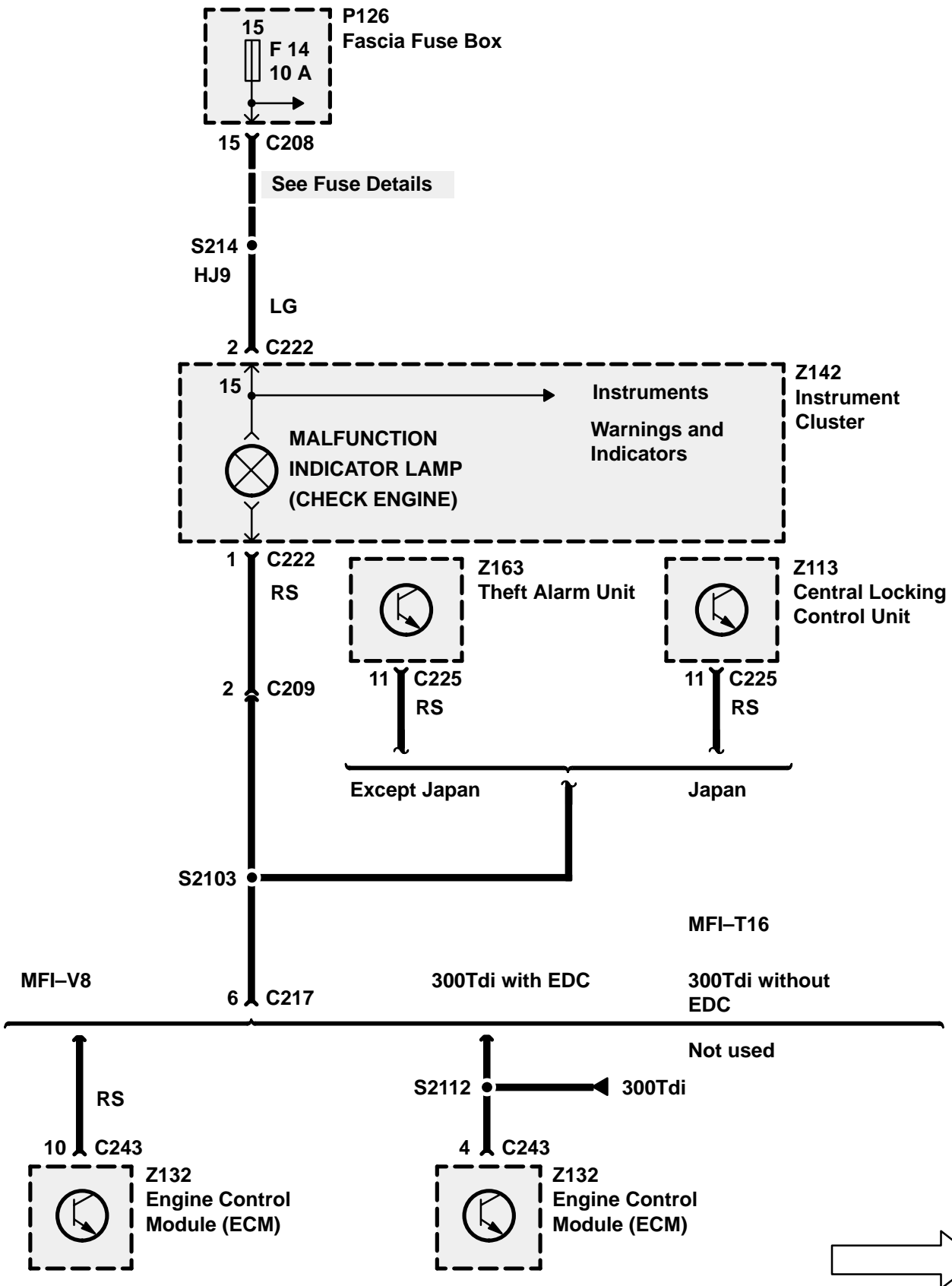
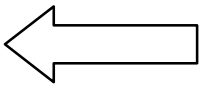
### Charge Warning Light

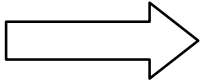
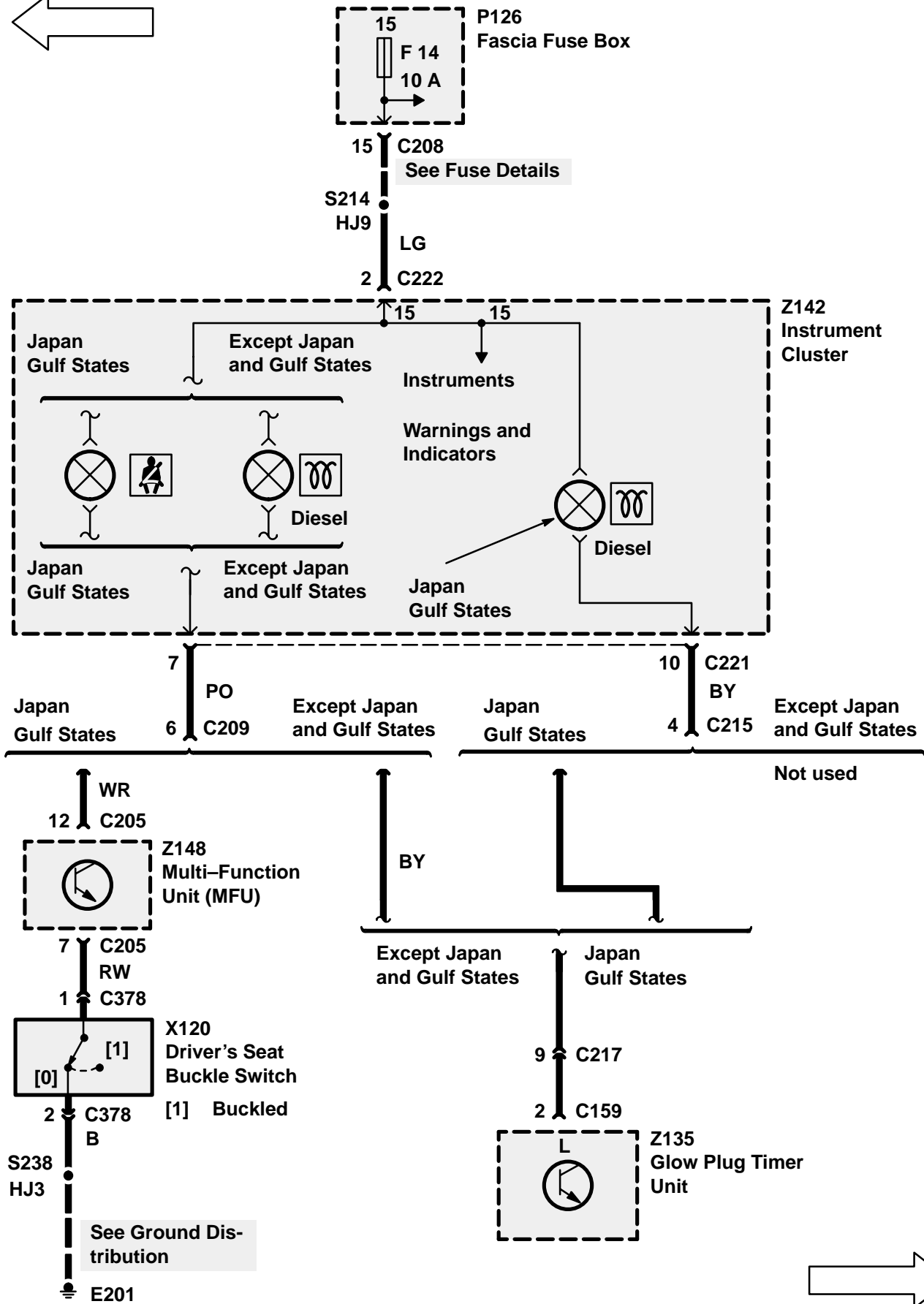
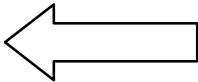
The charge warning light receives battery voltage with the Ignition Switch (X134) in position II. This warning light is grounded by the Generator (Z106) if the Generator is not producing normal power output or the Generator stops turning.

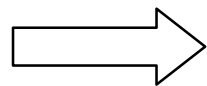
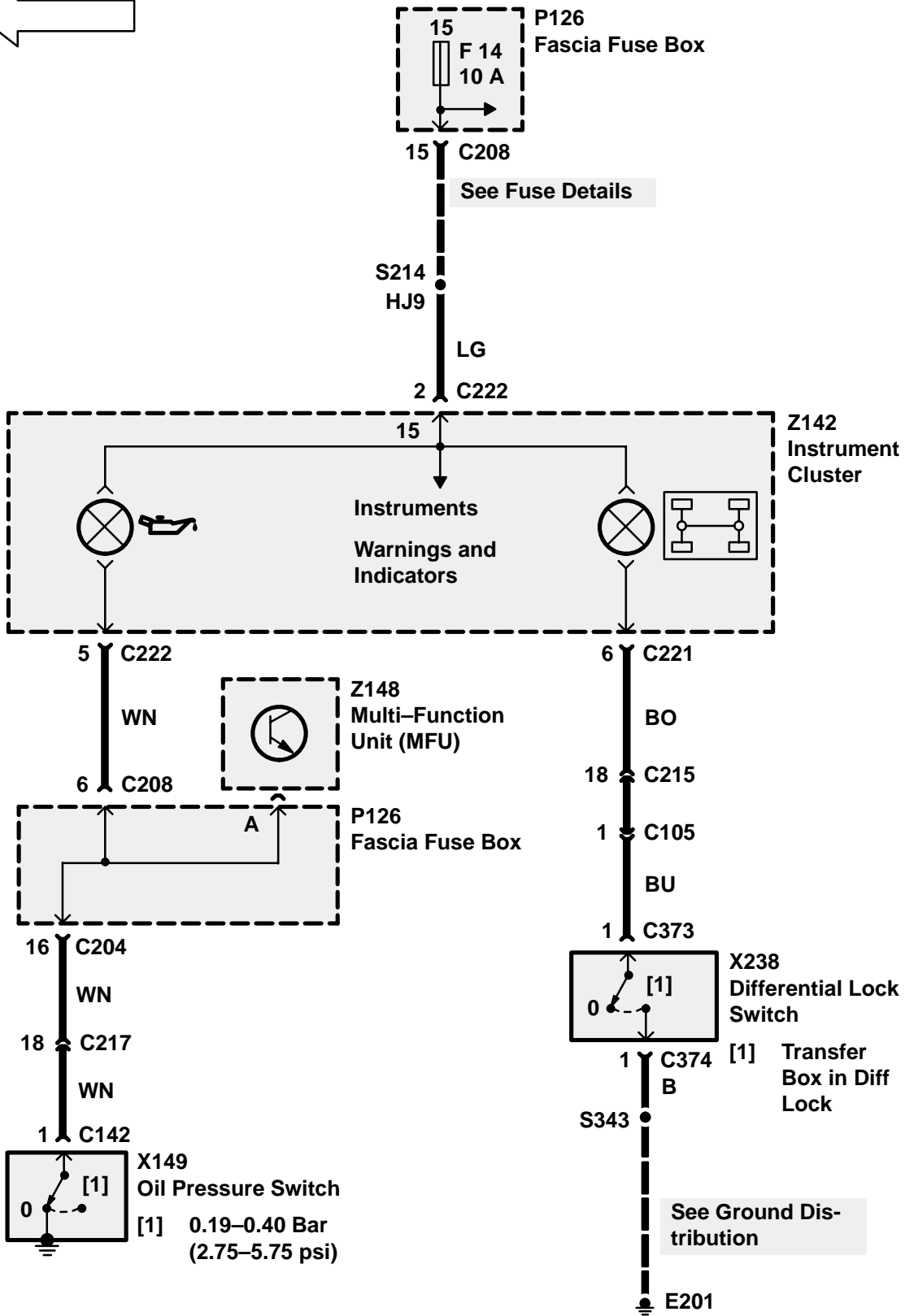
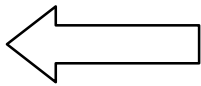
### SRS Indicators

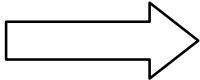
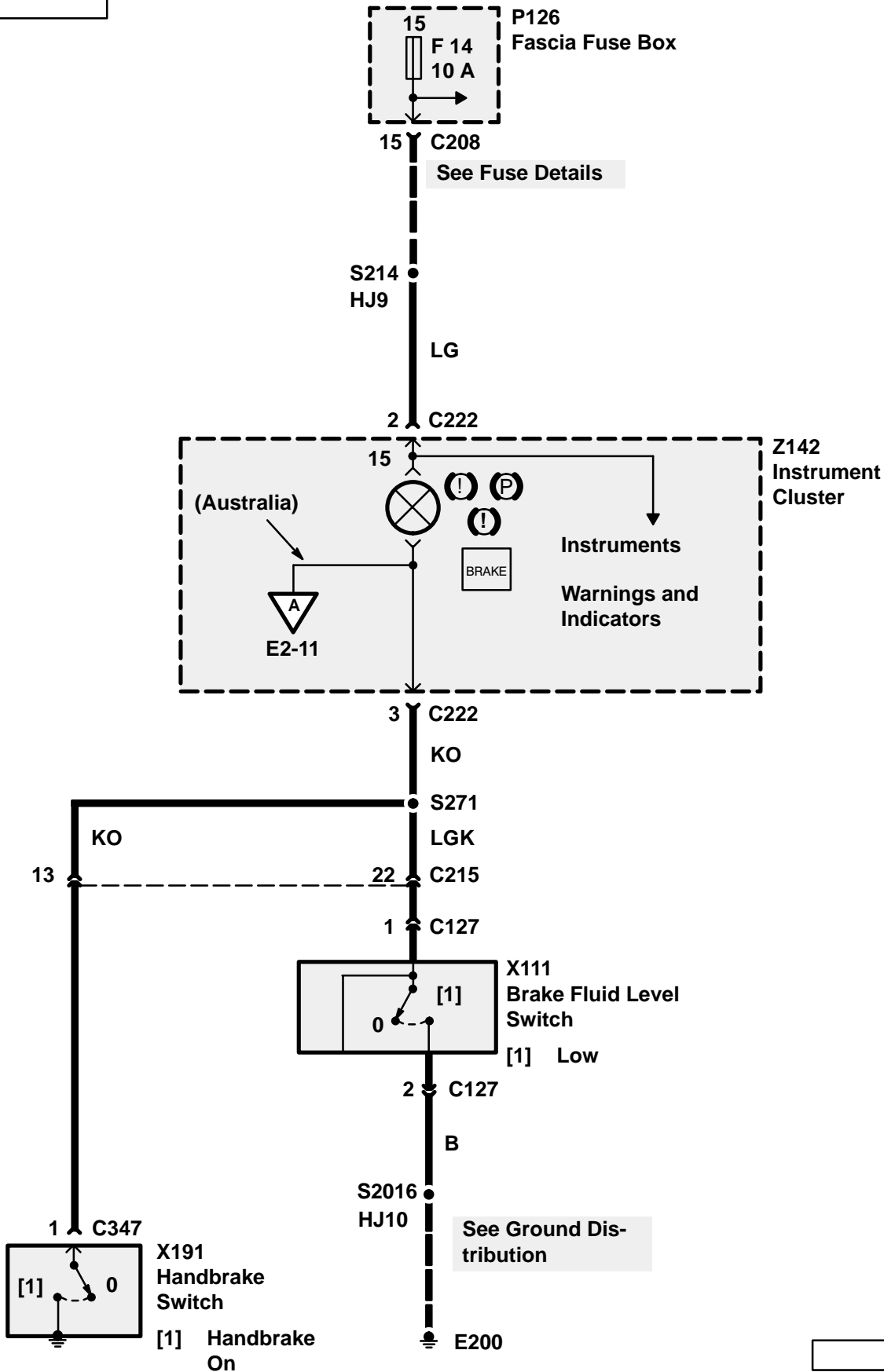
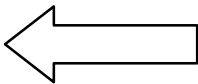
The SRS Indicators are controlled by the Air Bag Diagnostic Control Module (Z151) and the SRS Indicator Control Circuit of the Instrument Cluster (Z142) to indicate SRS System faults.

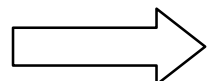
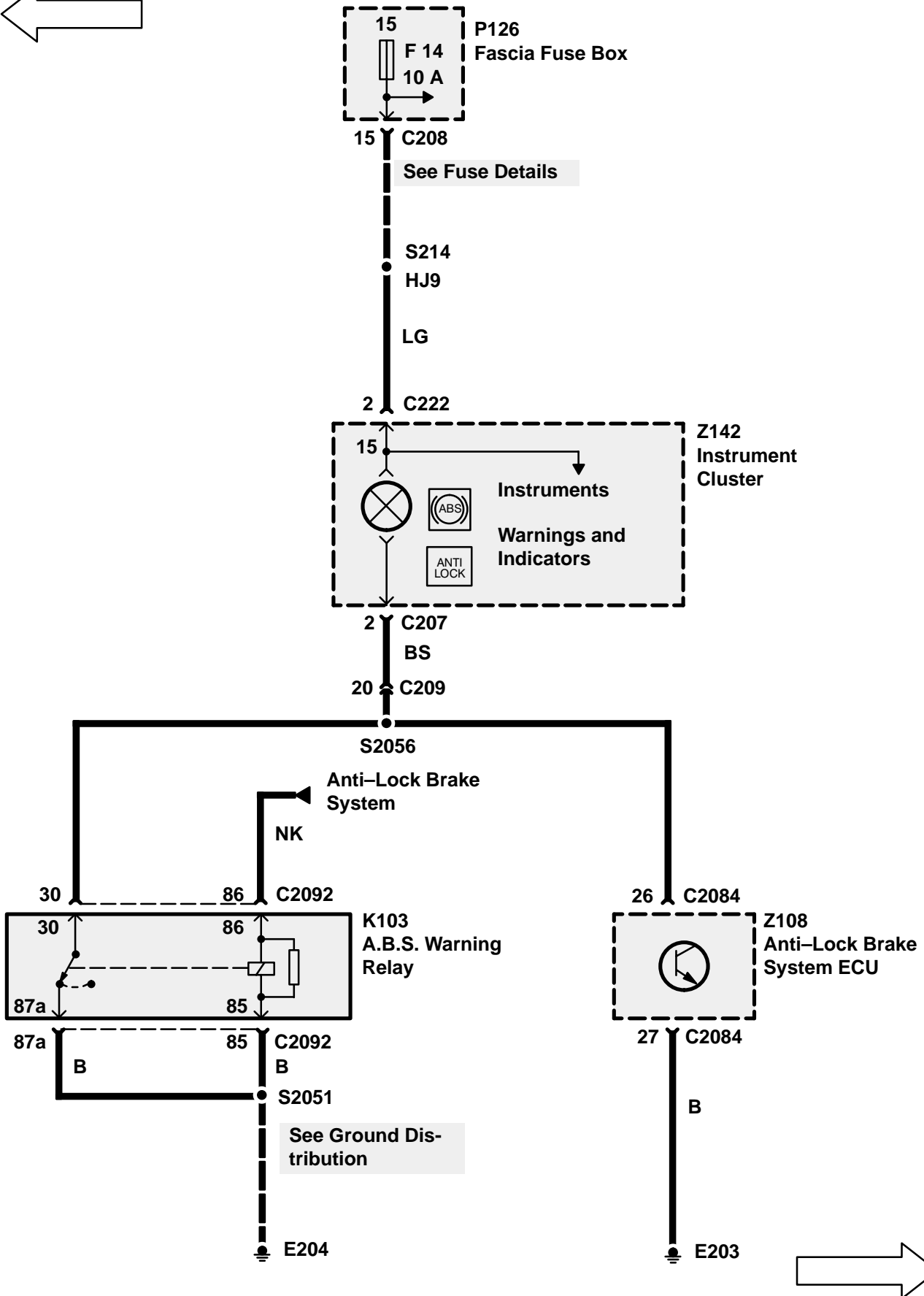
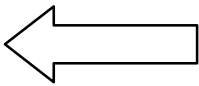


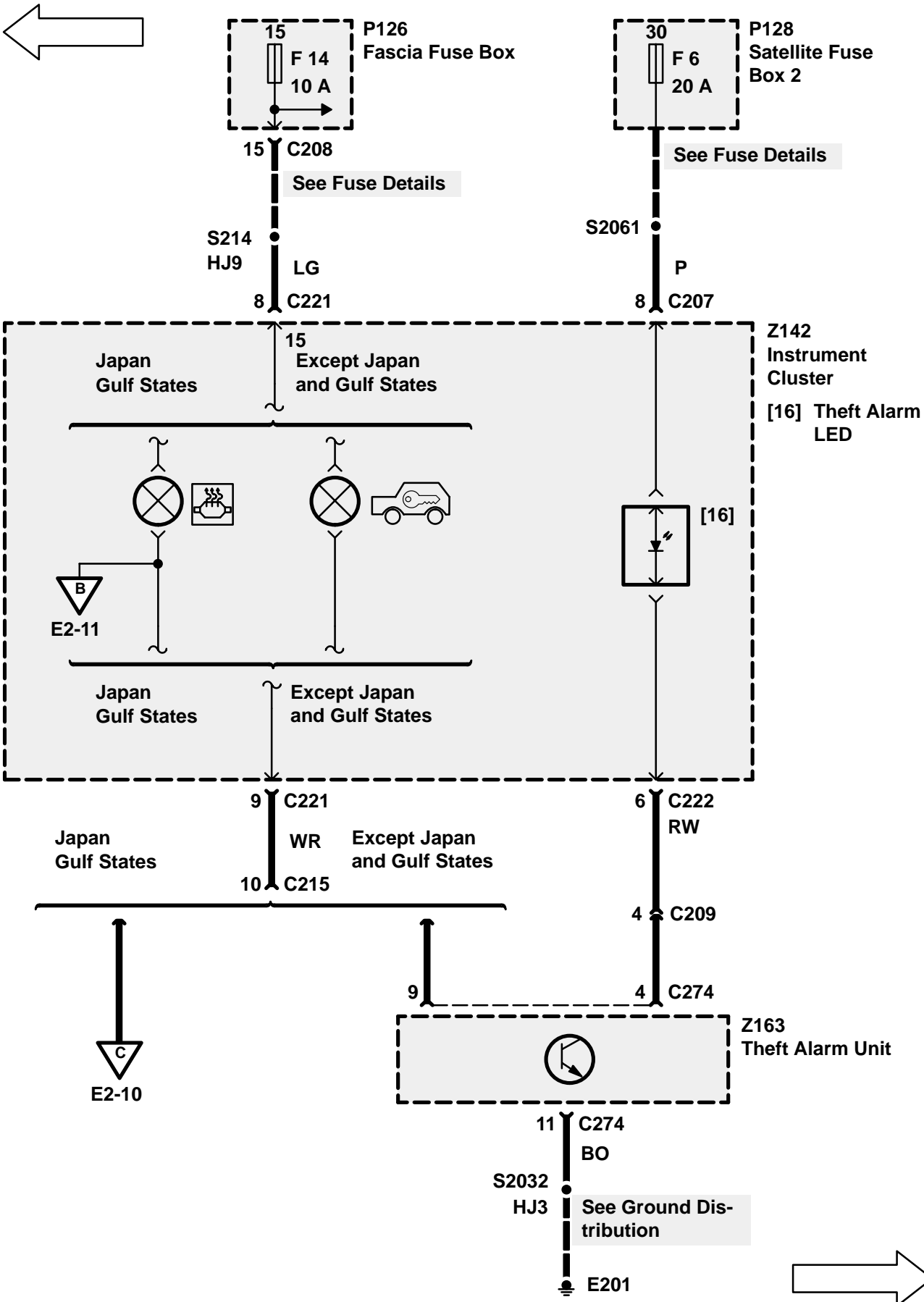




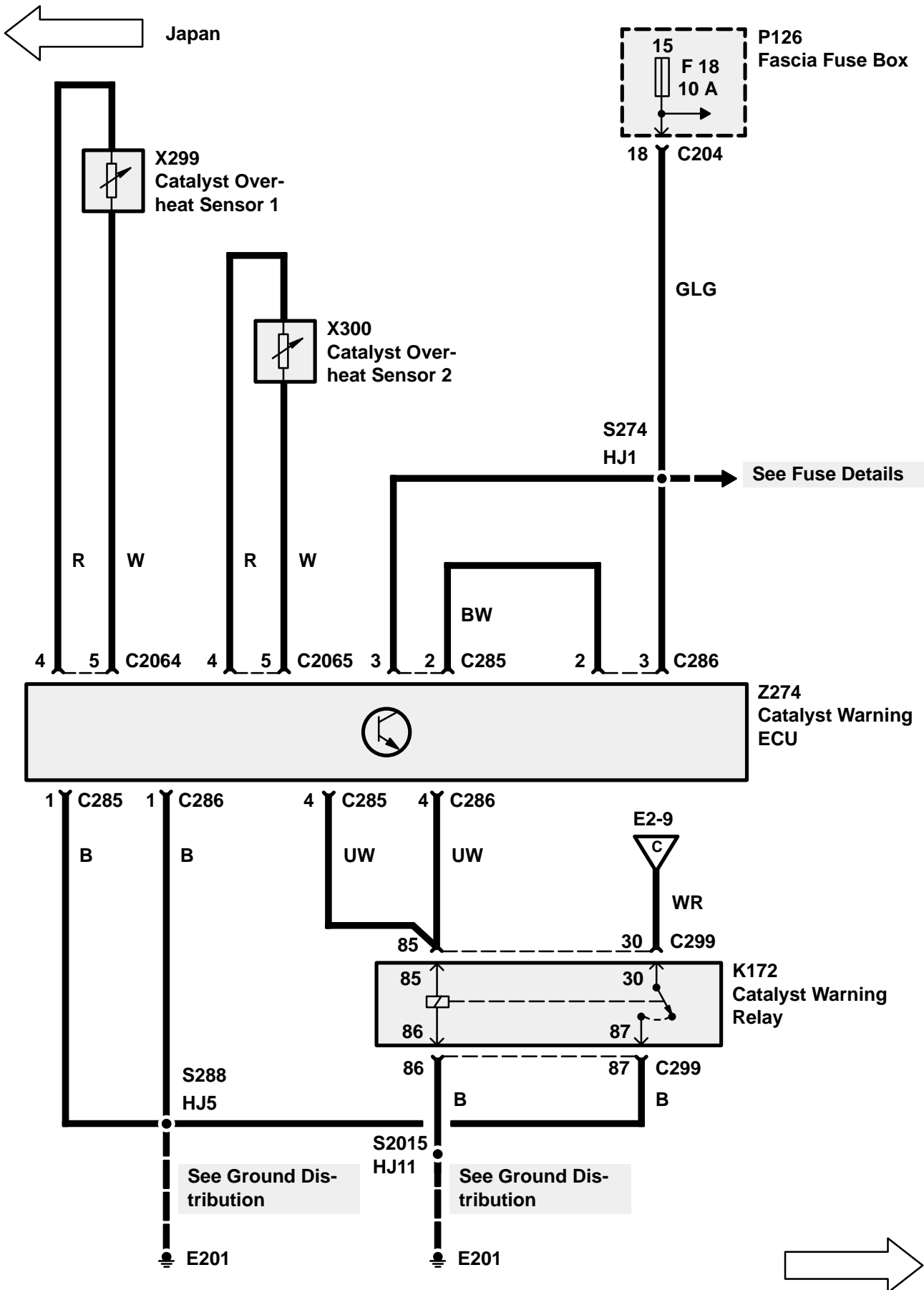


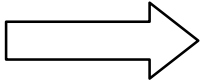
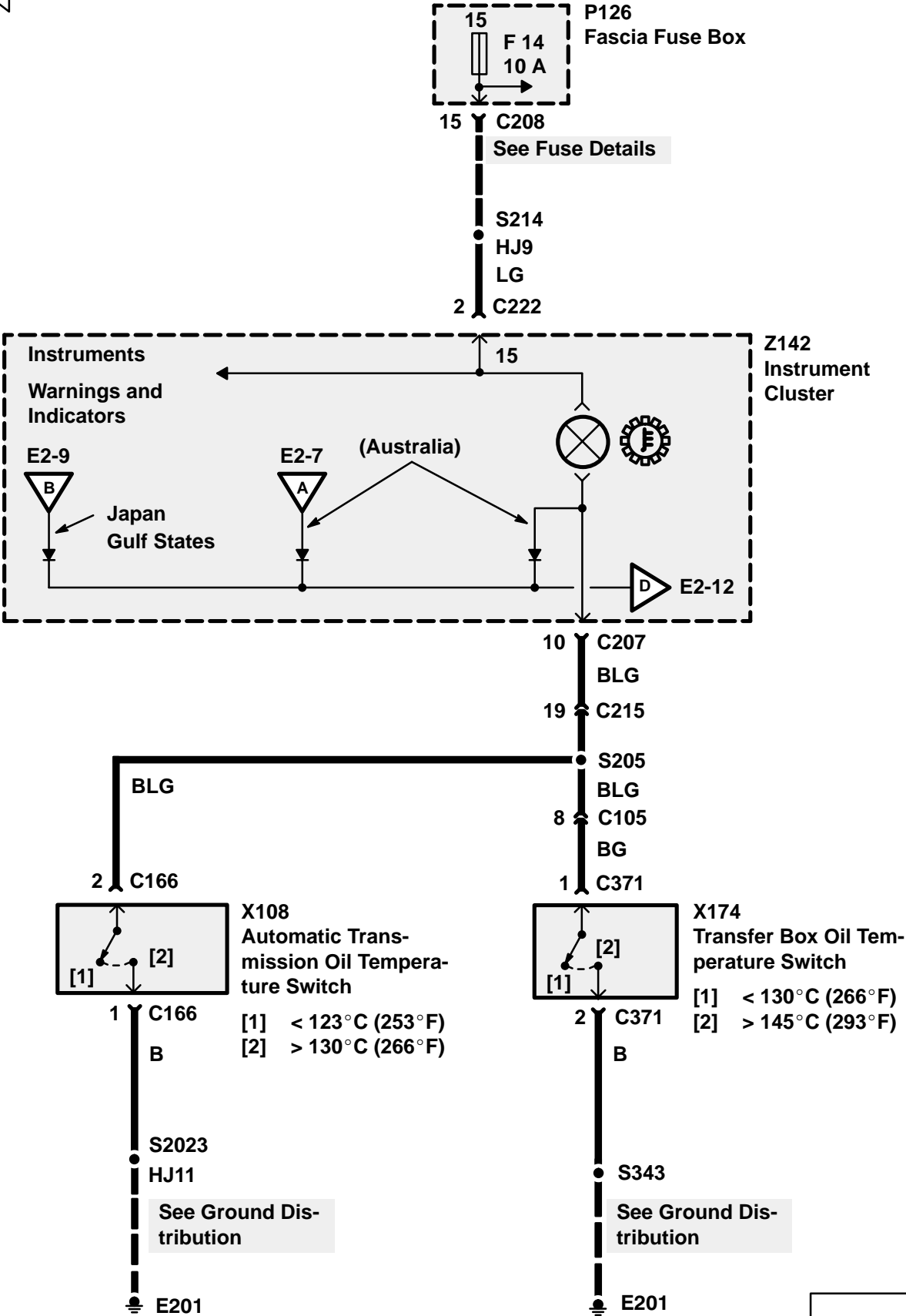
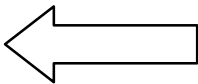


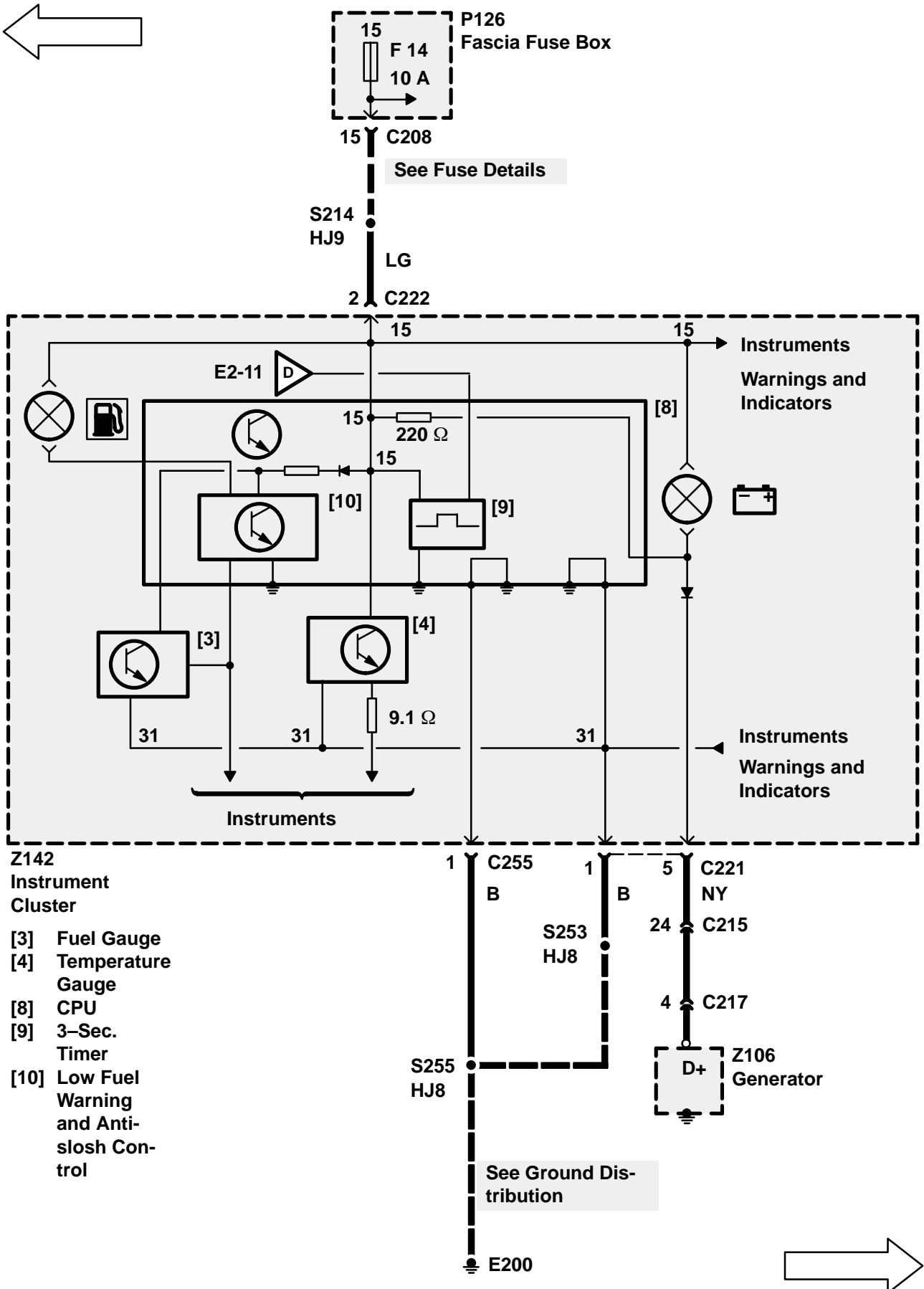


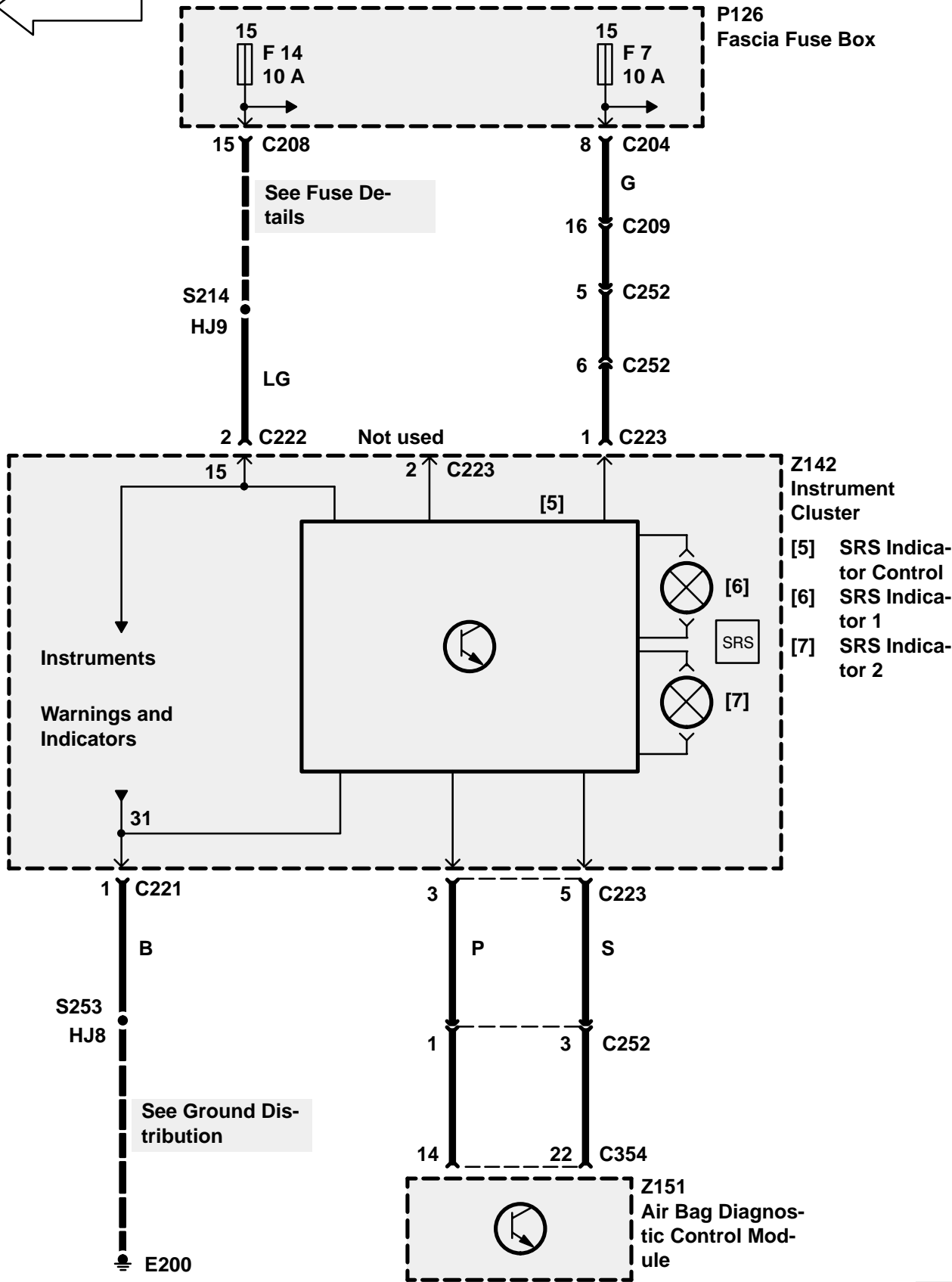
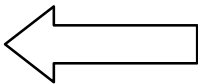


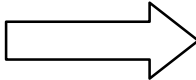
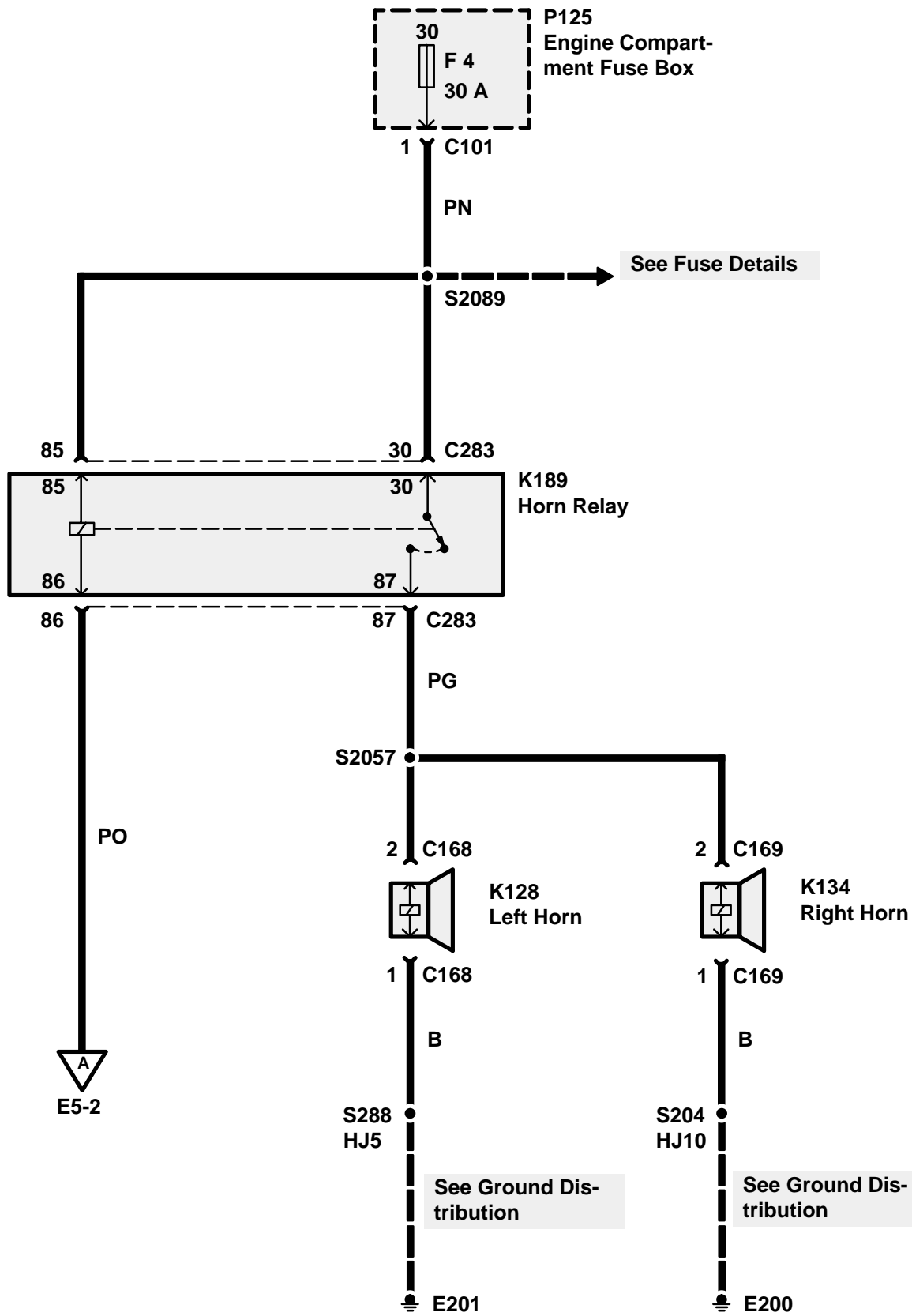


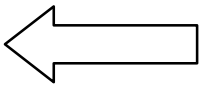






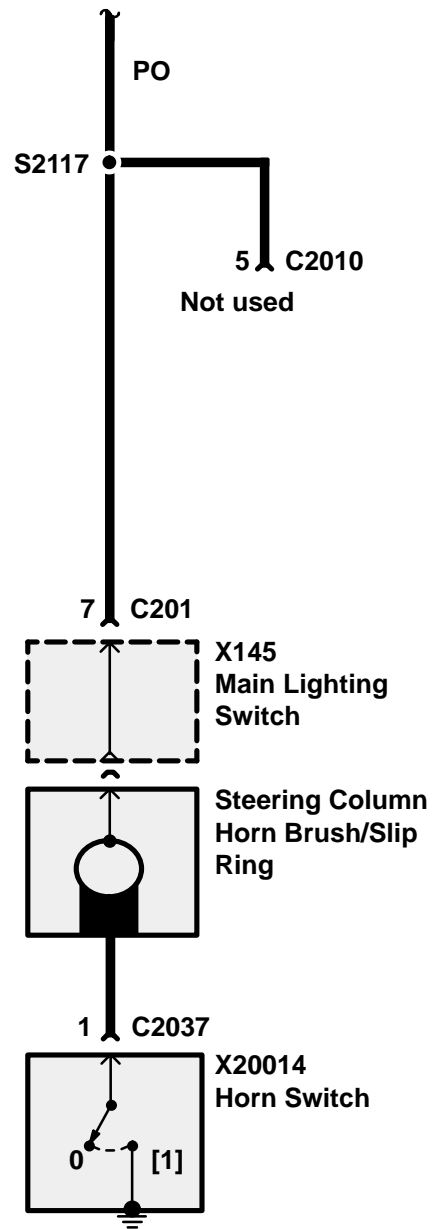
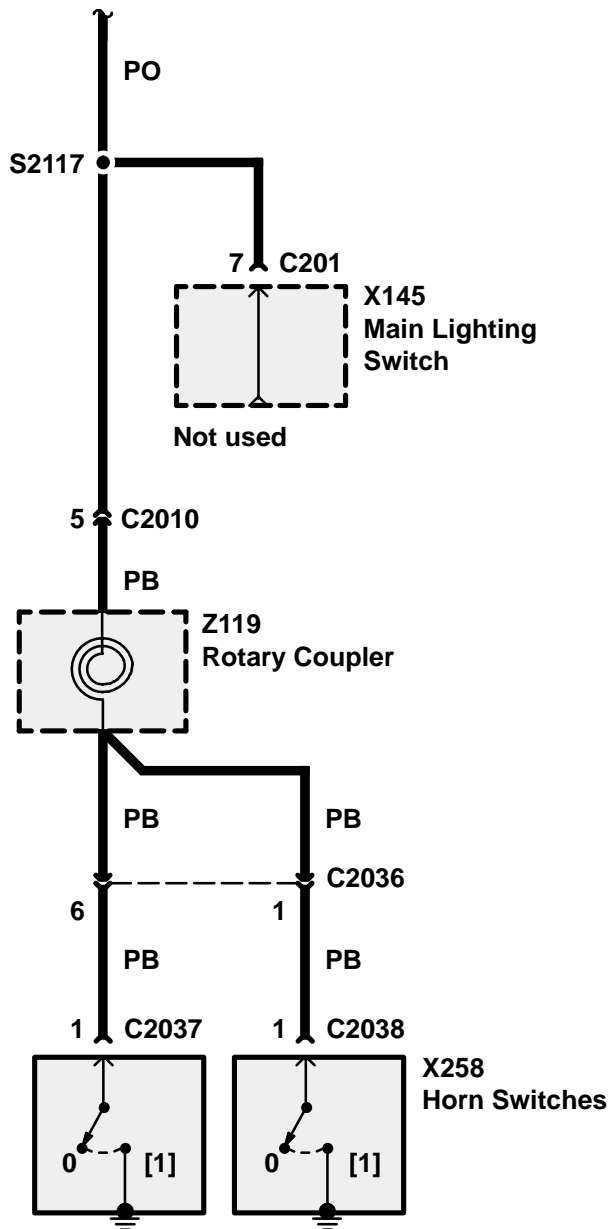






With Cruise Control

Without Cruise Control



## CIRCUIT OPERATION

The audio system consists of a new head unit, and for mid/high-range, a subwoofer and subwoofer amplifier. For mid- and high-range, the system is also equipped with a radio waveband switch and a tune switch, a volume up and a volume down switch which are located on the fascia next to the instrument cluster.

The control head is equipped with an anti-theft feature which makes the unit inoperative once battery power is removed. A security code must be entered to restore power to the unit. On every level the system is equipped with two rear and two front speakers. Optional front tweeters are available for high line radio.

Battery voltage is provided to the control head at all times through the P wire. In addition to monitoring the anti-theft feature, this input keeps the preset station memory alive. Whenever battery power to the unit is lost, the anti-theft code must be entered and the preset stations must be reprogrammed.

When the Radio (Z111) and the ignition are turned on, the voltage signal through the LGO wire and the control head 'wakes up' the unit. The Radio (Z111) plays, the VF display comes on, and the control unit buttons illuminate. The VF display is dimmed when the headlights or park lights are turned on. When the lights are on, voltage from fuse F8 of the Fascia Fusebox (P126) is applied to the Radio (Z111) terminal 6, connector 230 signalling the Radio (Z111) to dim the display.

### Side Screen Antenna

The antenna is now printed into the rear side screen on four door models. For America and Japan the element is fitted in both rear side screens, known as diversity antenna system. Other markets have a single element in the right hand side screen only. Diversity reception means that if vehicle movement results in a loss of signal due to reflections from buildings (known as multipath distortion), the radio will switch to the antenna receiving the strongest signal. This results in less interference and better stereo performance.

### Antenna Amplifier

New antenna amplifiers are located behind the headlining above the side screen antenna(s). Right

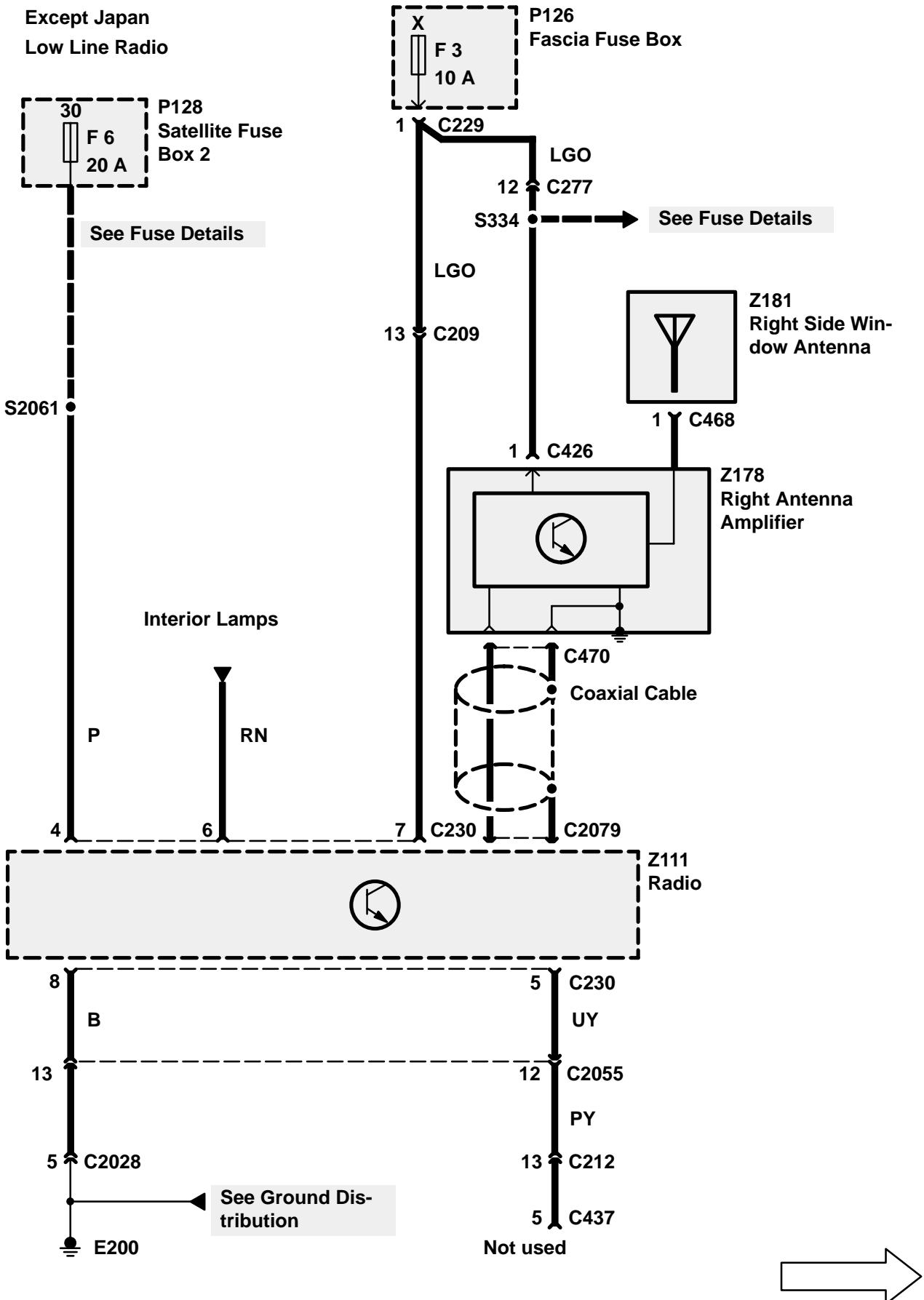
hand side fitment is an FM + AM amplifier, left hand side, diversity, is an FM only amplifier.

### Subwoofer

The subwoofer unit is located in the right hand side of the luggage compartment. It amplifies frequencies between 20 and 150 Hz to give an enhanced bass sound.

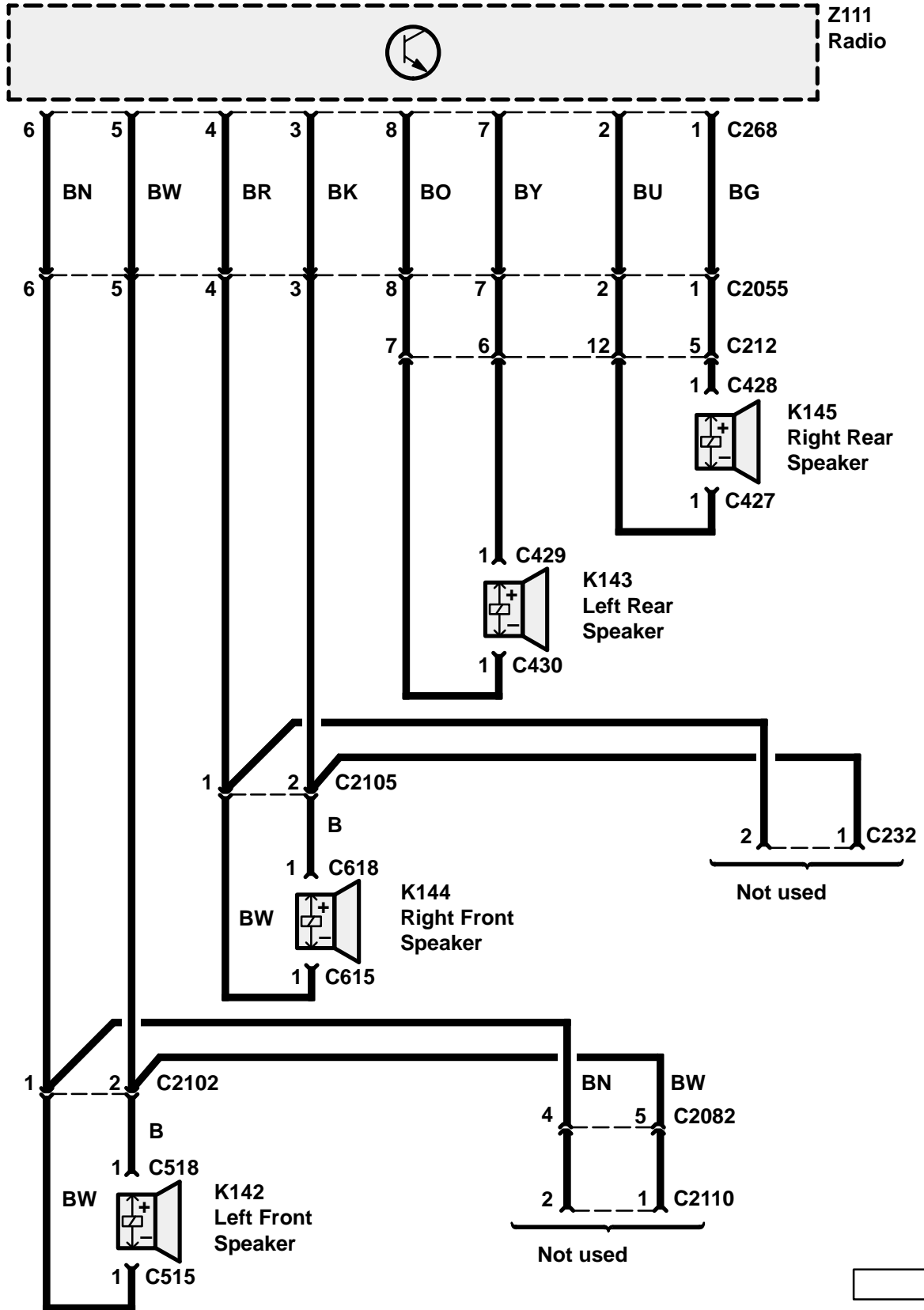
### Subwoofer Amplifier

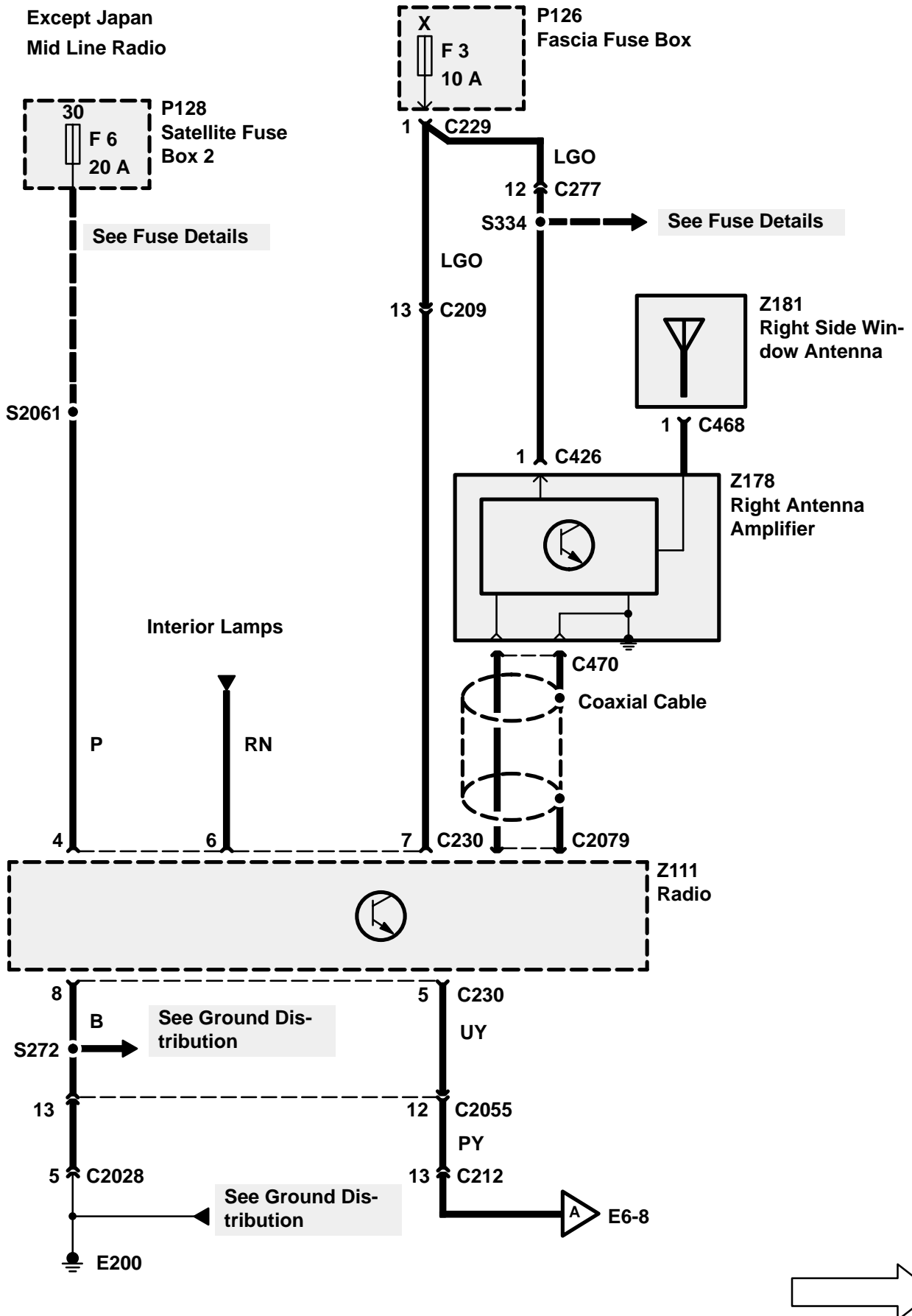
The amplifier is fitted on top of the subwoofer unit.



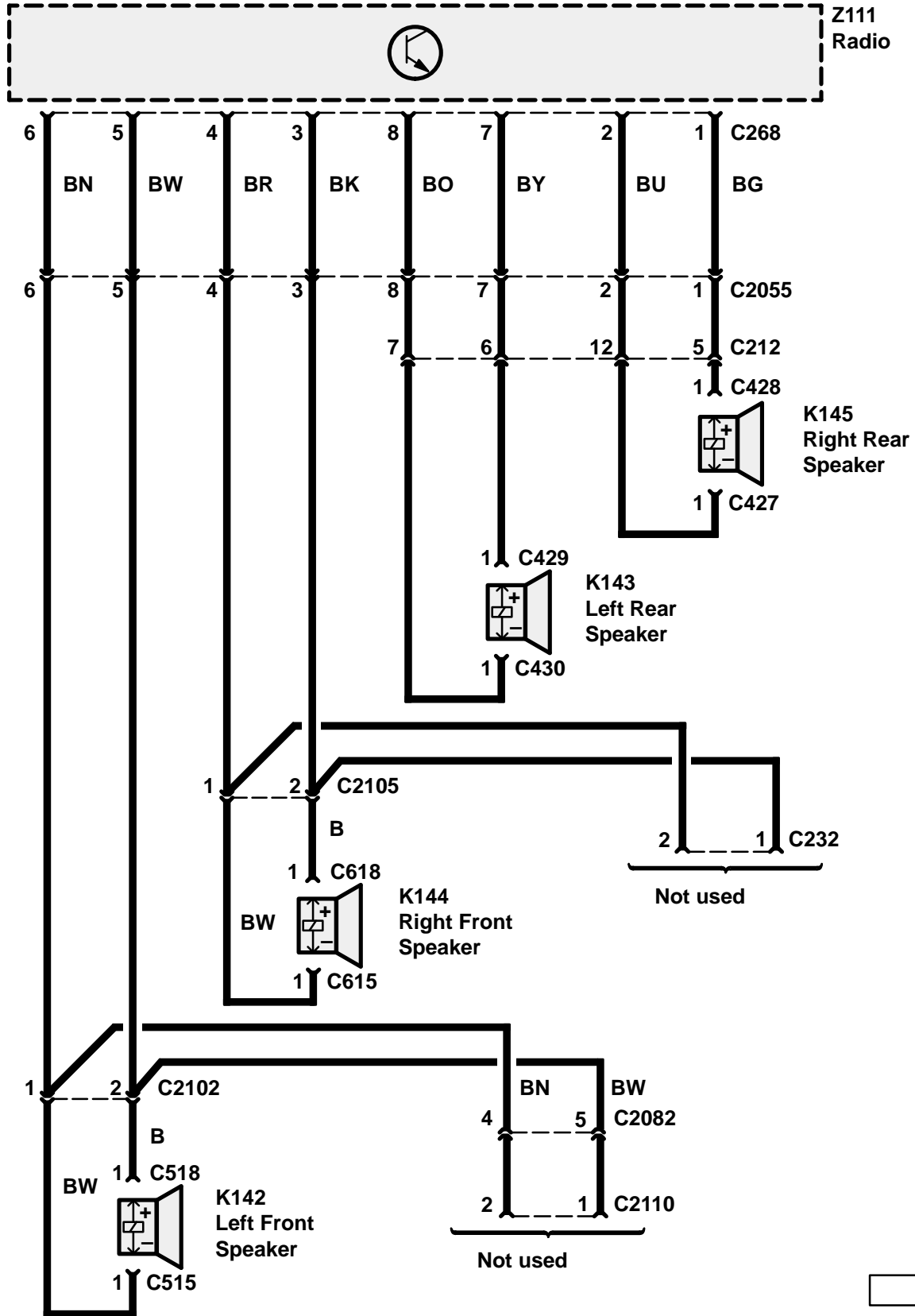


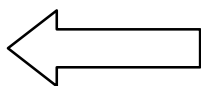
← Except Japan  
Low Line Radio



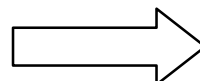
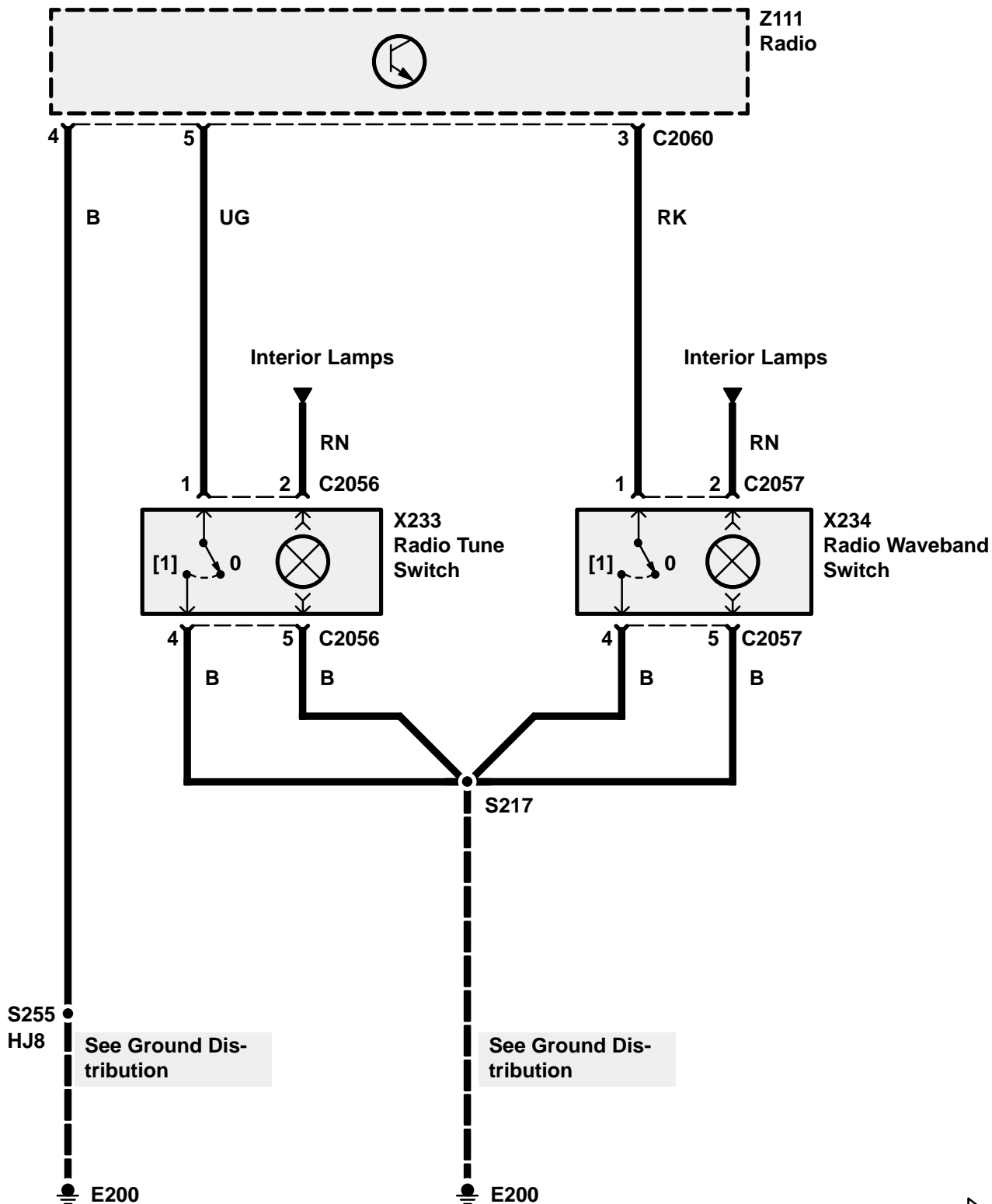


← Except Japan  
Mid Line Radio

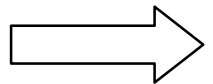
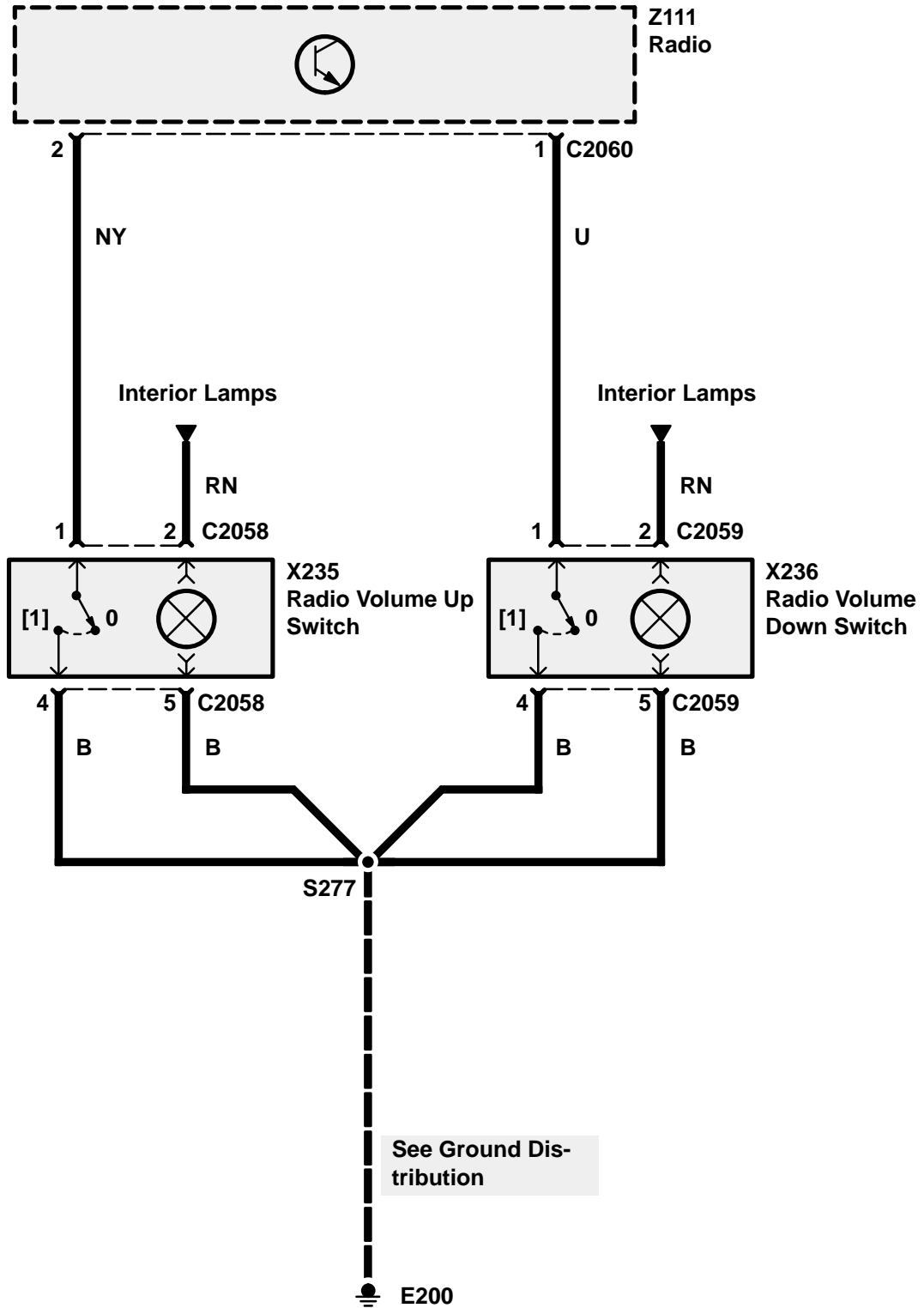




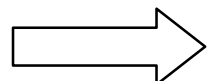
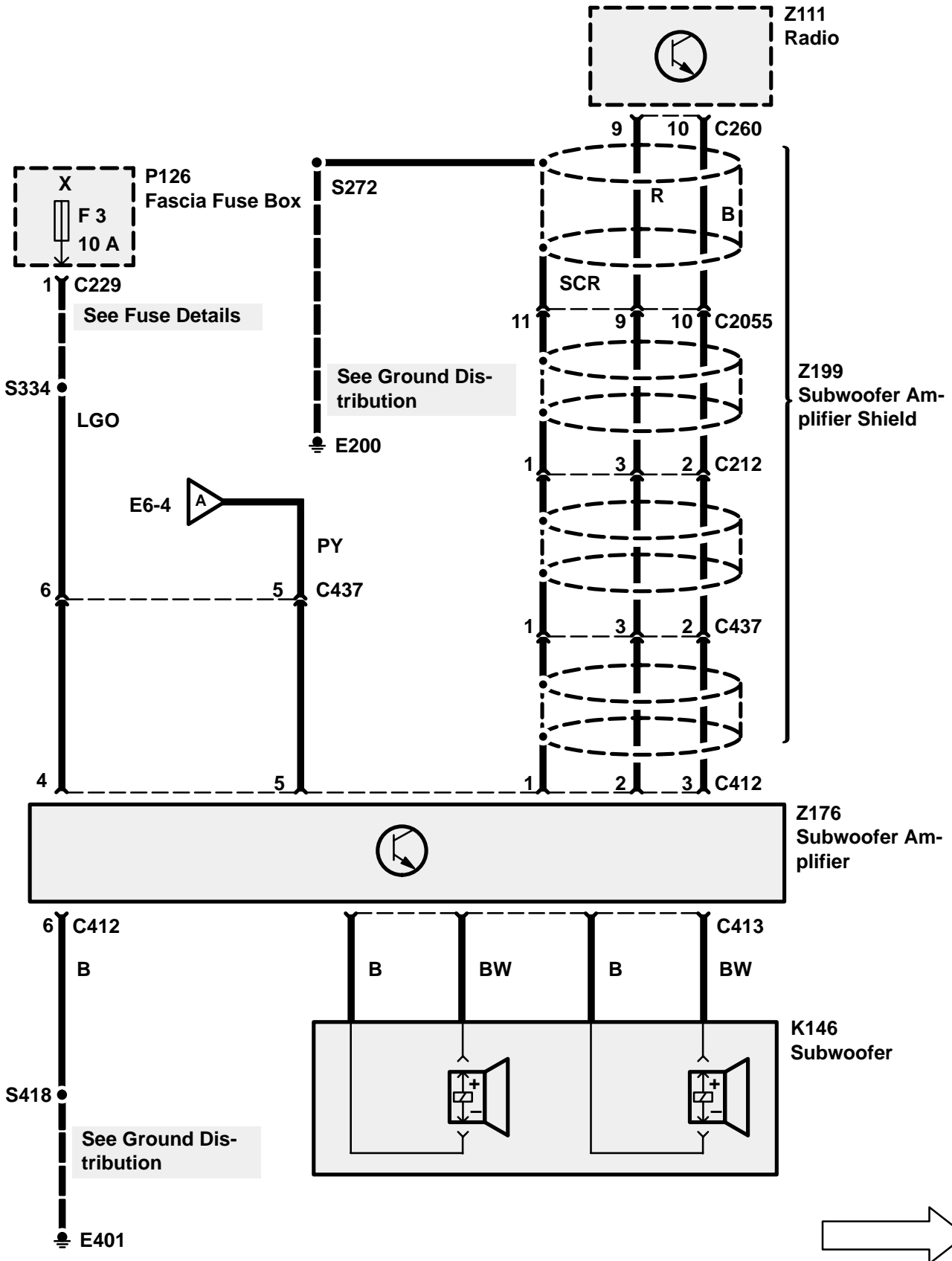
Except Japan  
Mid Line Radio

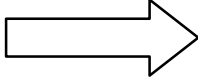
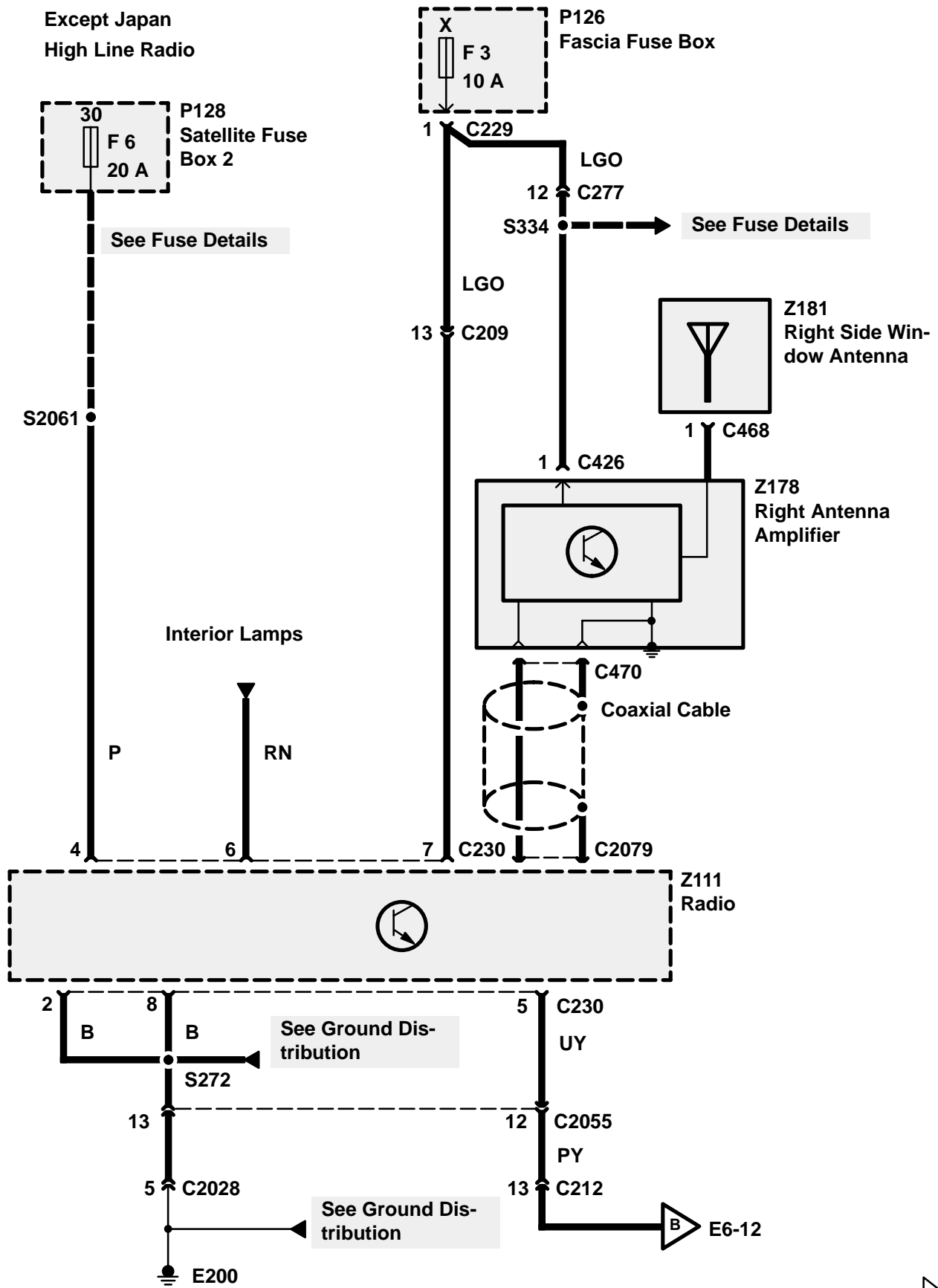


← Except Japan  
Mid Line Radio

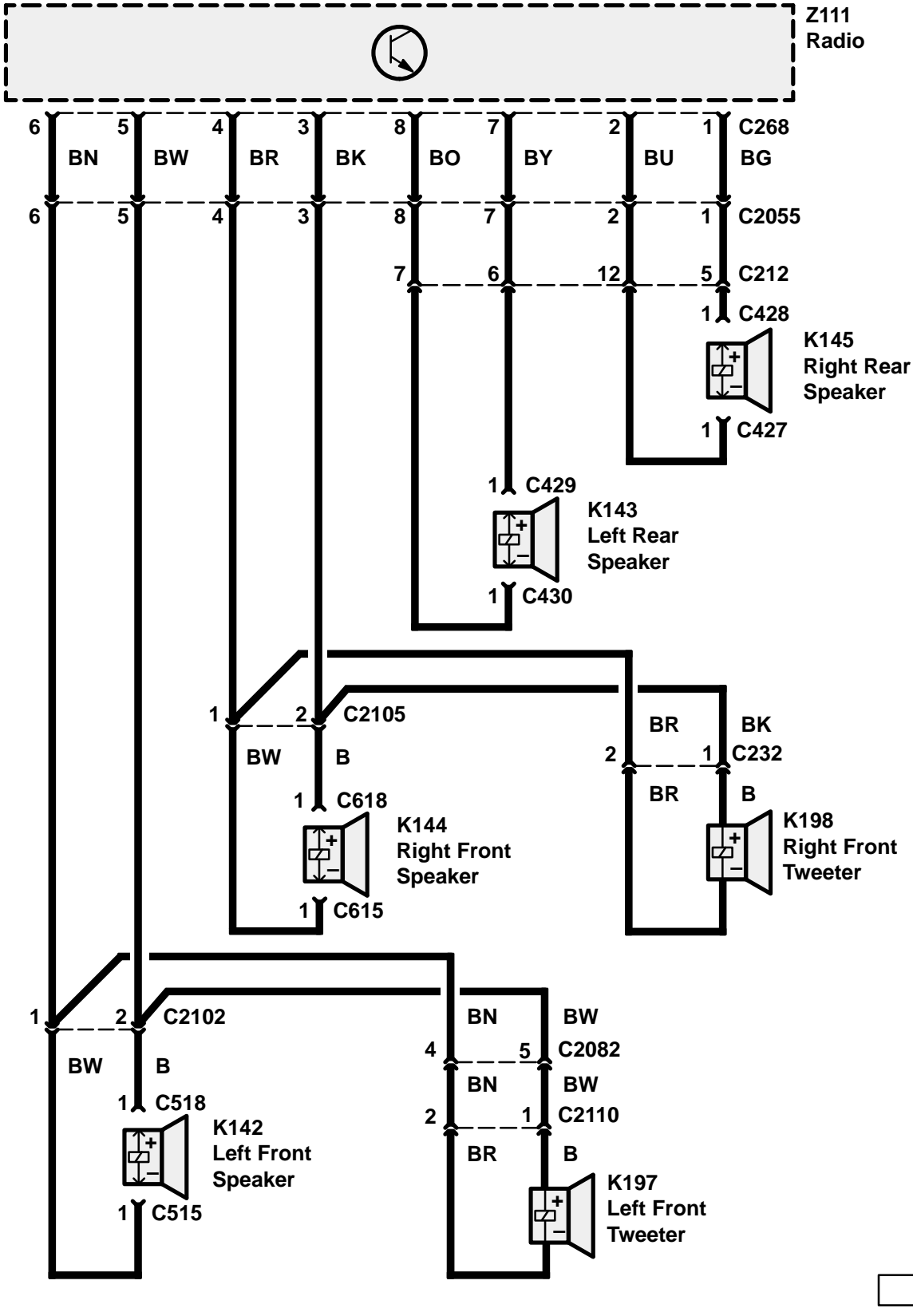


← Except Japan  
Mid Line Radio

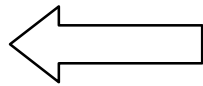




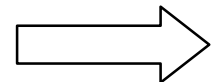
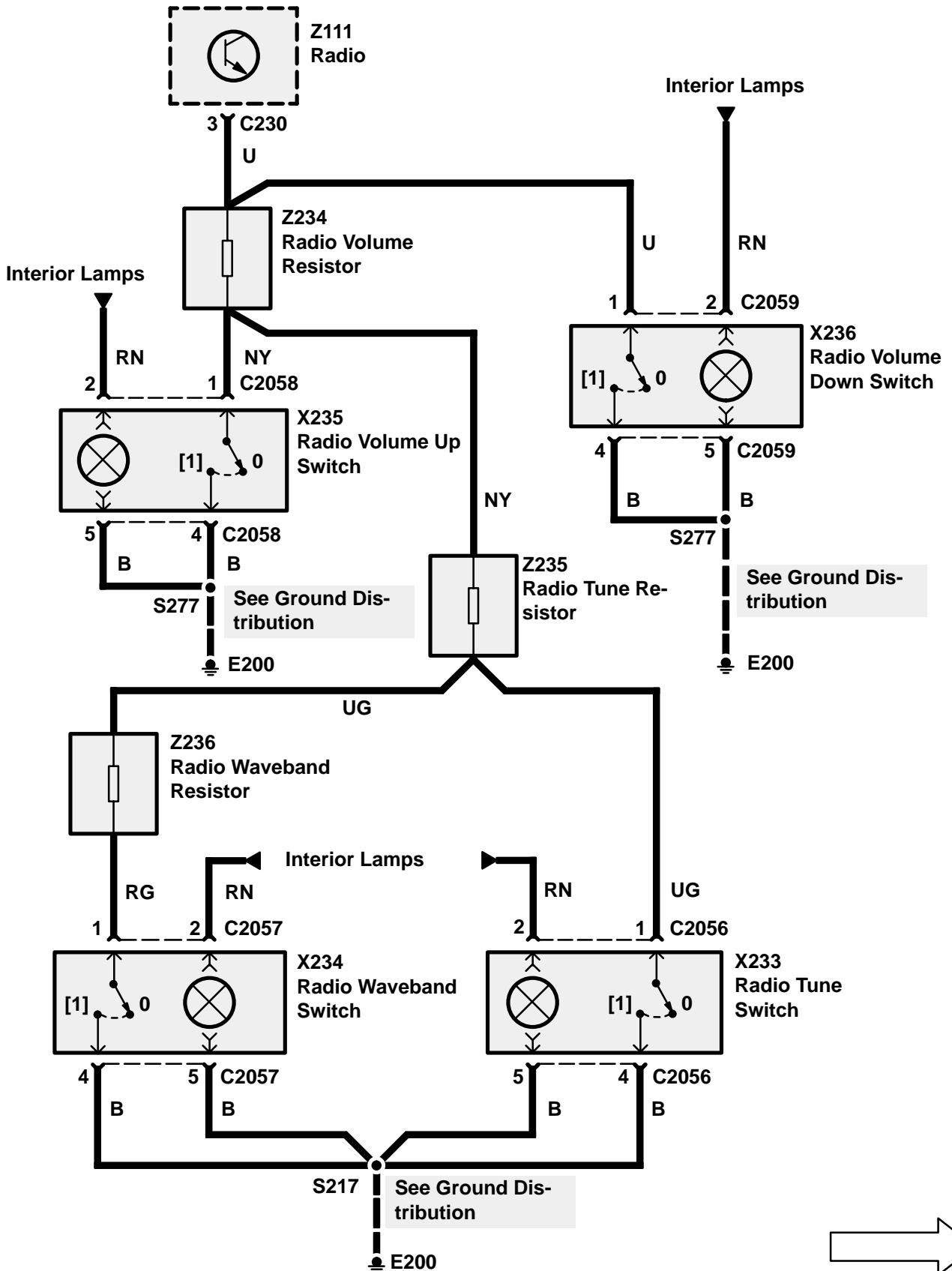
← Except Japan  
High Line Radio

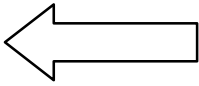




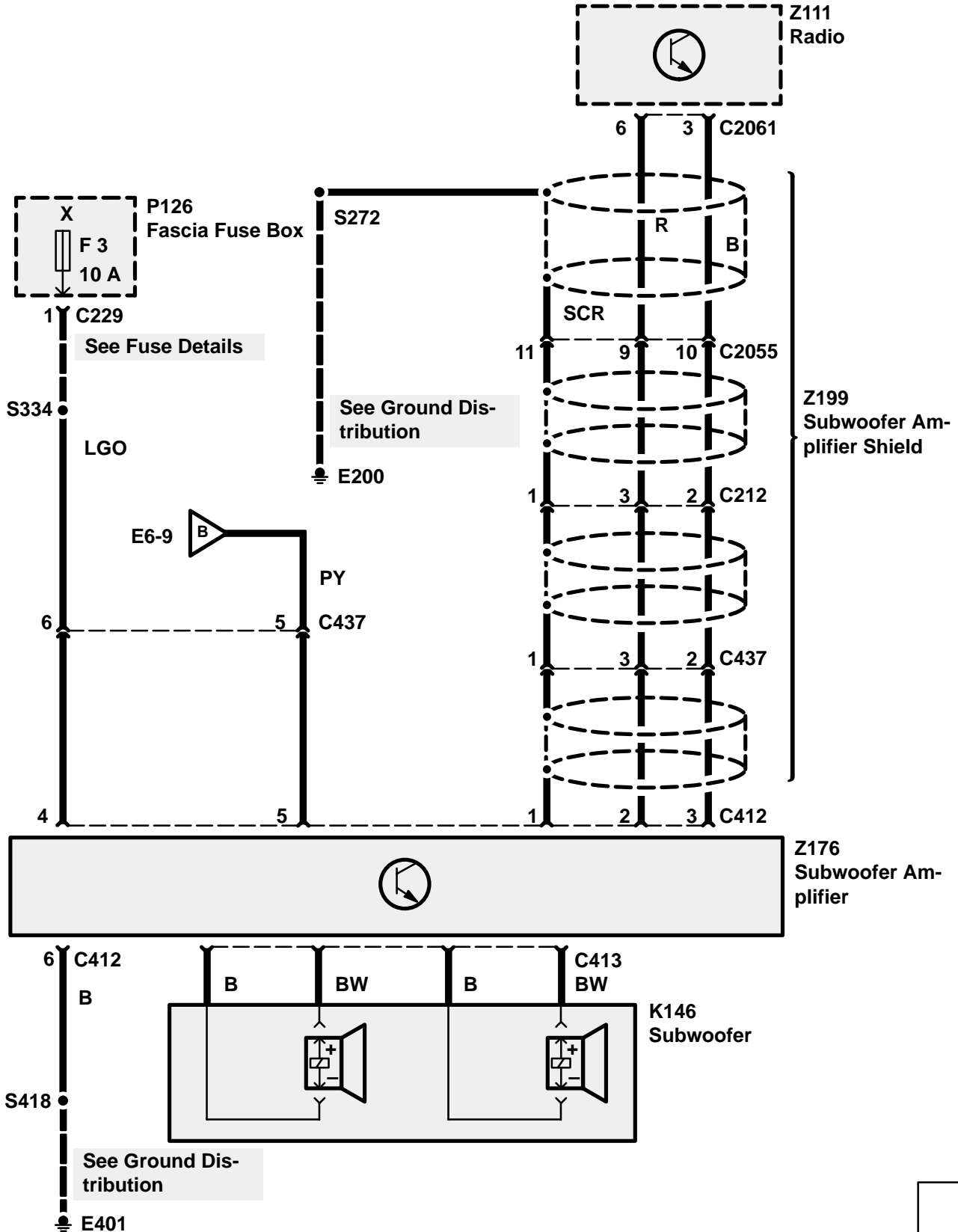


Except Japan  
High Line Radio





Except Japan  
High Line Radio



## CIRCUIT OPERATION

The audio system consists of a new head unit connected to a Radio Tune Switch, a waveband switch, a volume up and a volume down switch which are located on the fascia next to the Instrument Cluster. The system is also equipped with an amplifier, a subwoofer, a subwoofer amplifier and a CD changer which is connected to the Radio with a DIN cable. The amplifier is connected to power via a Power Amplifier Relay which is energised with ignition on.

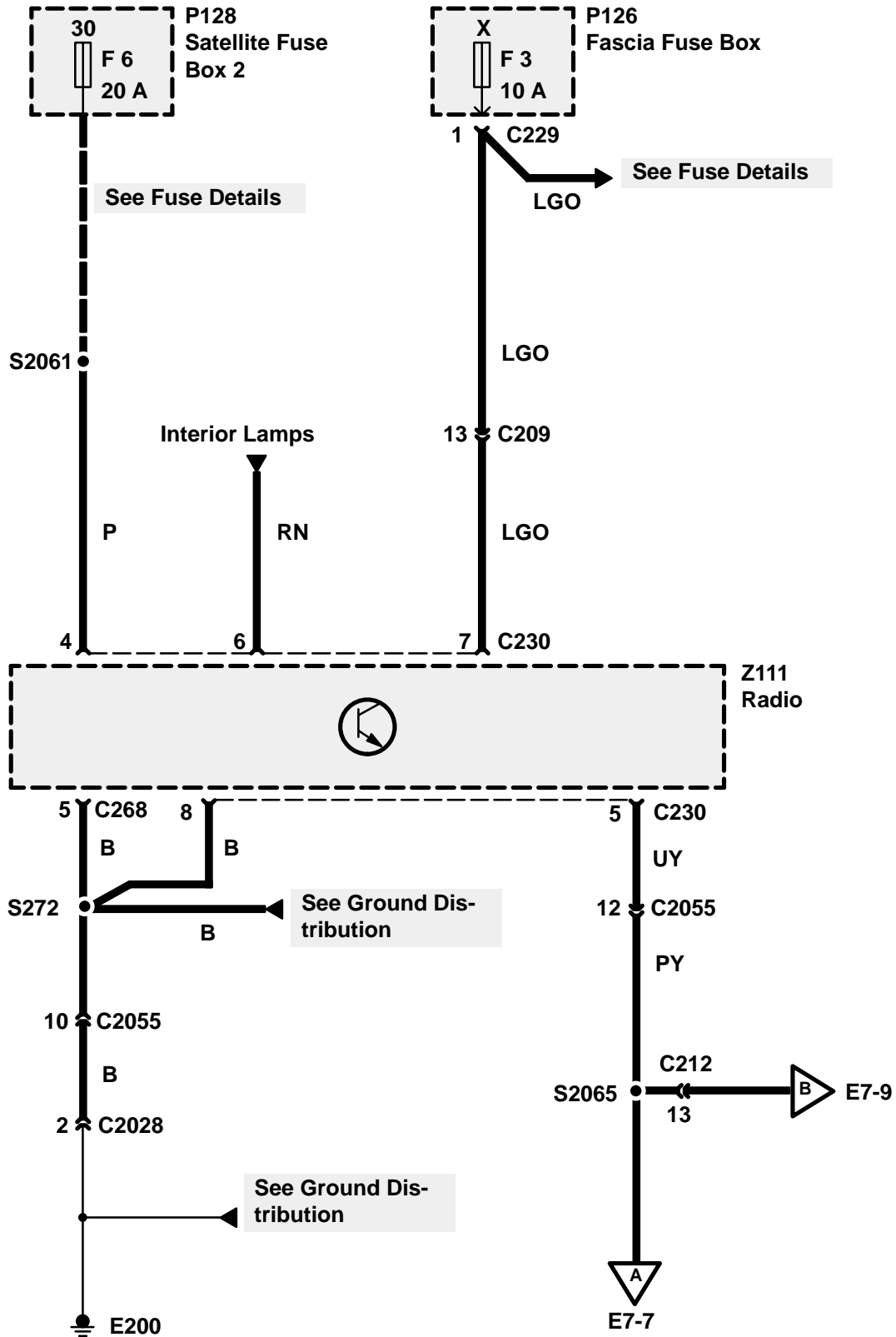
The control head is equipped with an anti-theft feature which makes the unit inoperative once battery power is removed. A security code must be entered to restore power to the unit. The system is equipped with two rear and four front speakers.

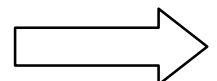
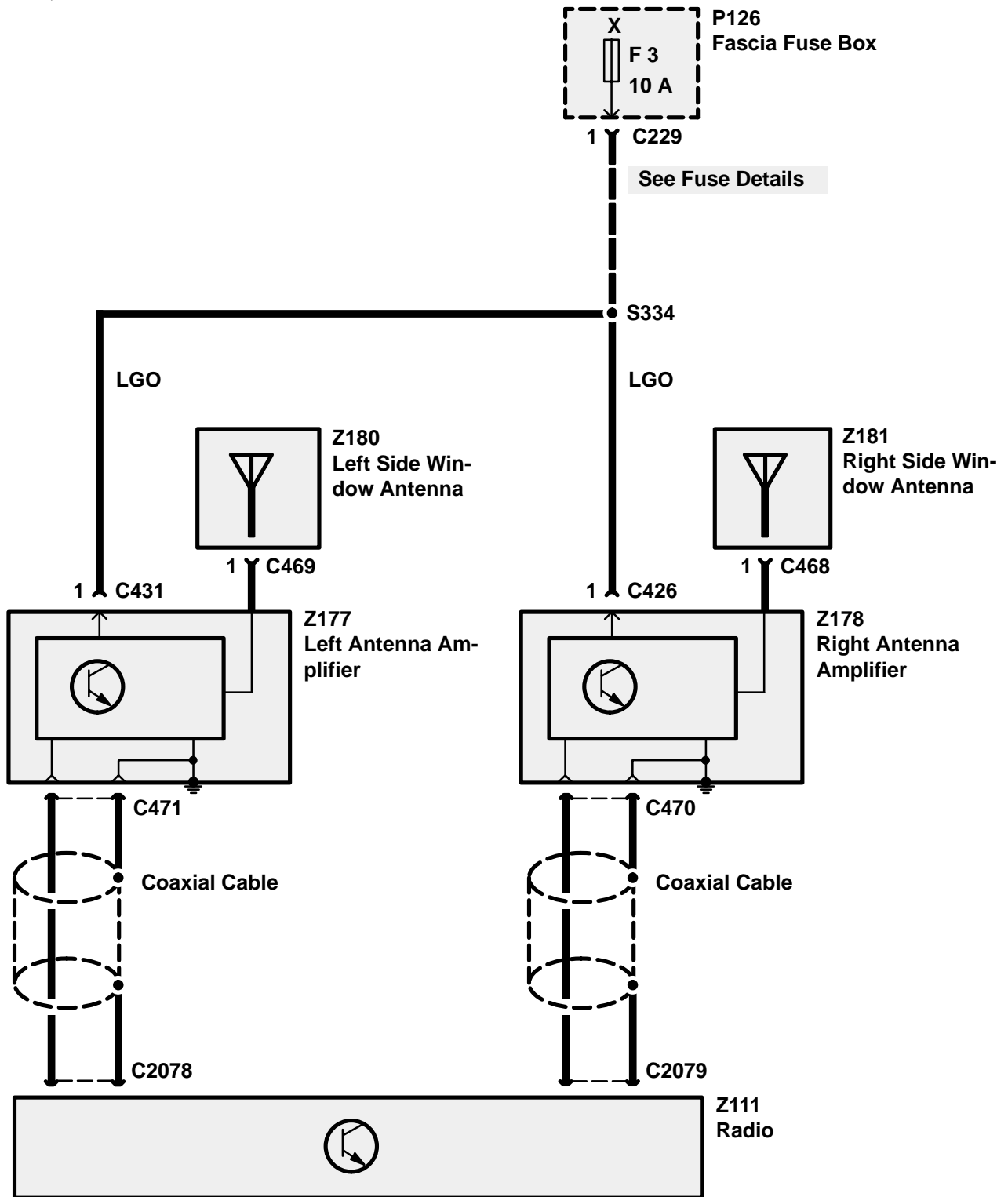
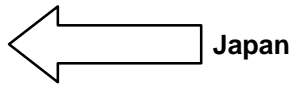
Battery voltage is provided to the control head at all times through the P wire. In addition to monitoring the anti-theft feature, this input keeps the preset station memory alive. Whenever battery power to the unit is lost, the anti-theft code must be entered and the preset stations reprogrammed.

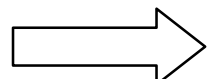
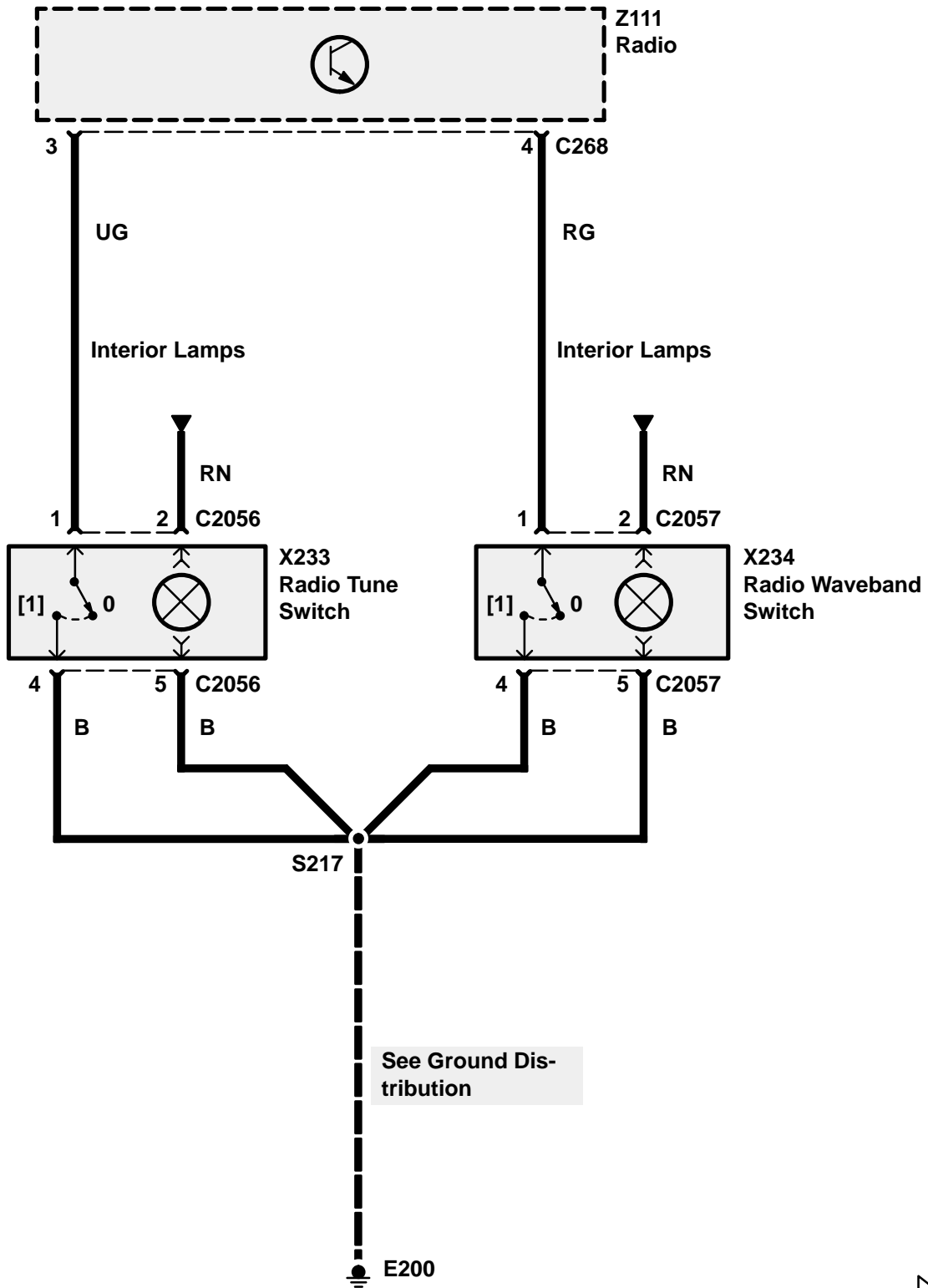
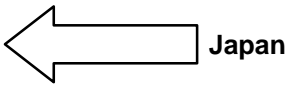
When the Radio (Z111) and the ignition are turned on, the voltage signal through the LGO wire and the control head 'wakes up' the unit. The Radio (Z111) plays, the VF display comes on, and the control unit buttons illuminate. The VF display is dimmed when the headlights or park lights are turned on. When the lights are on, voltage from fuse F8 of the Fascia Fusebox (P126) is applied to the Radio (Z111) terminal 6, Connector 230 signalling the Radio (Z111) to dim the display.

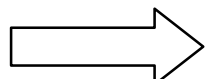
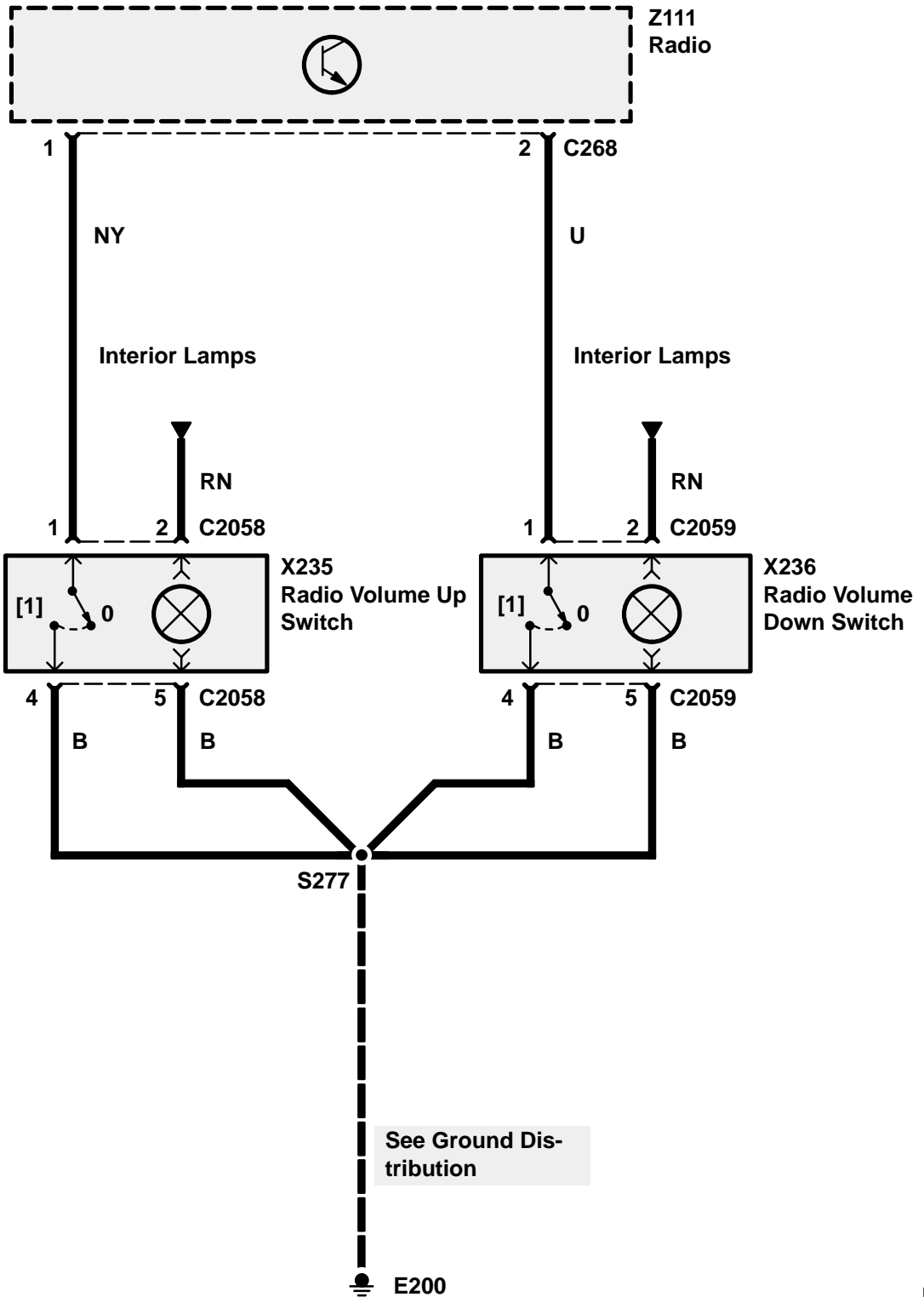
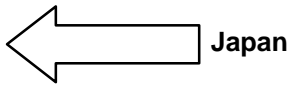
Radio (Z111) signals are received via a coaxial cable from the side screens and Antenna Amplifiers. The amplifier filters and boosts the signal from the rear side screens.

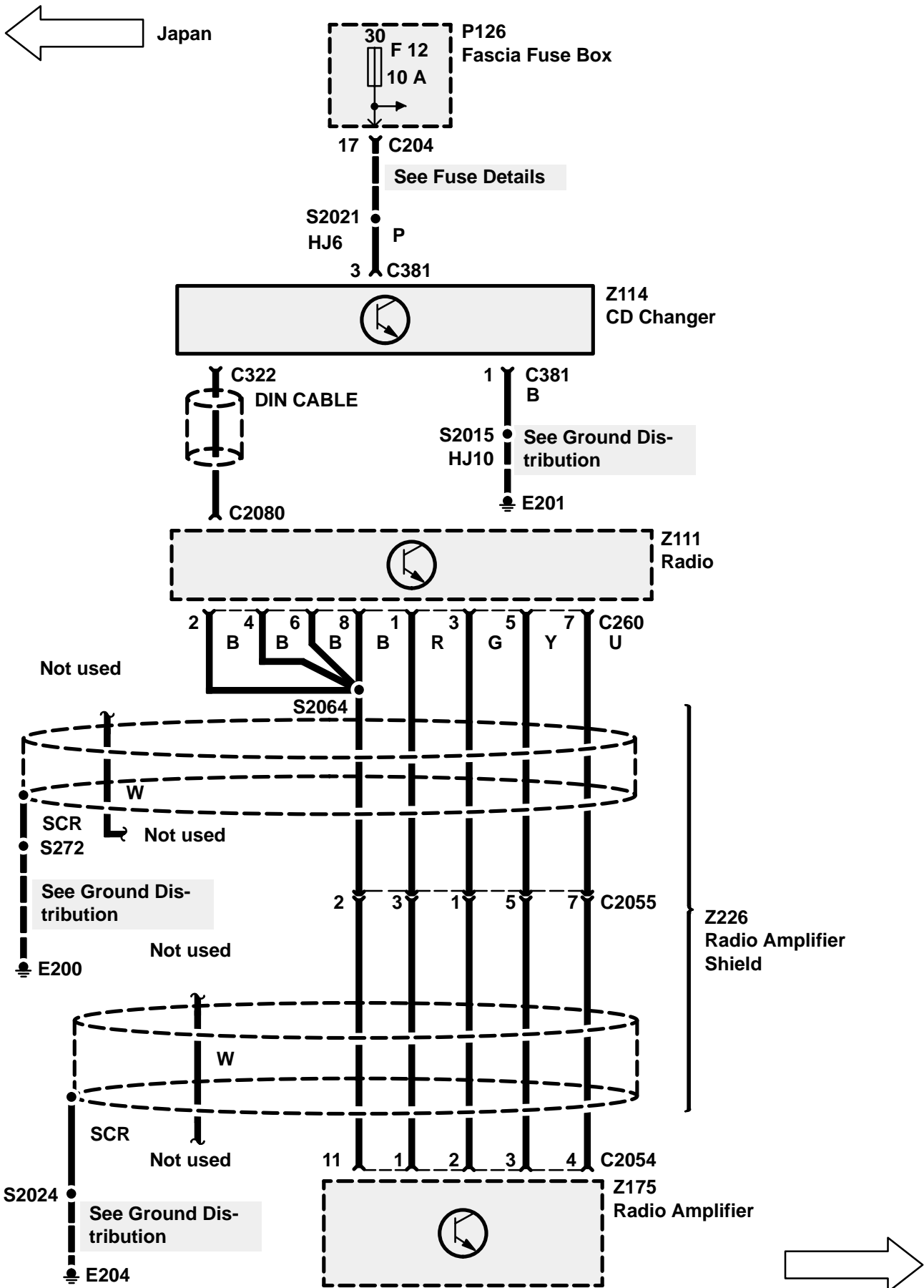
Japan



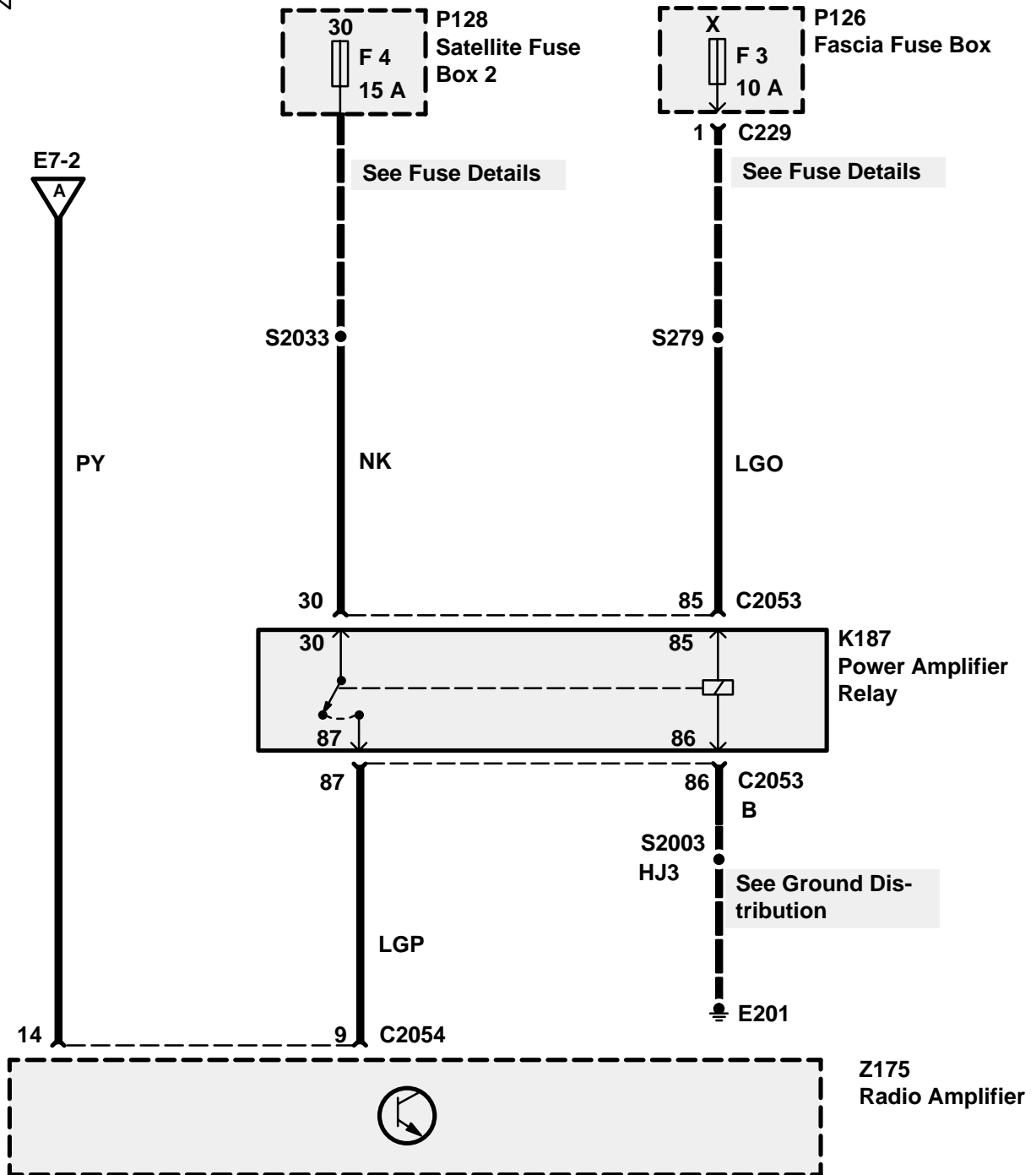
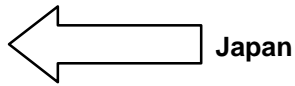


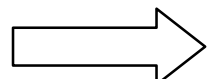
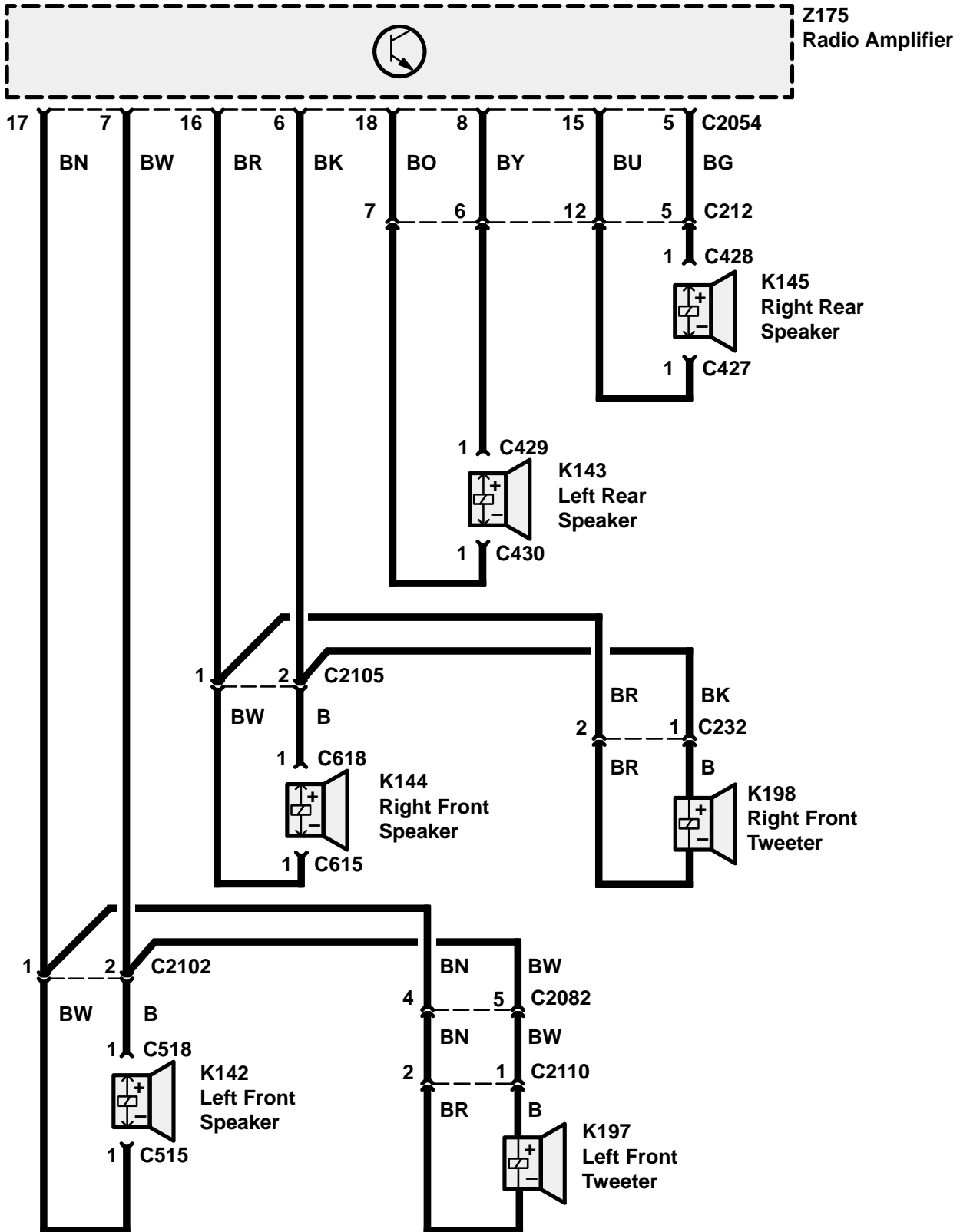
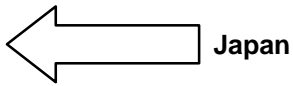


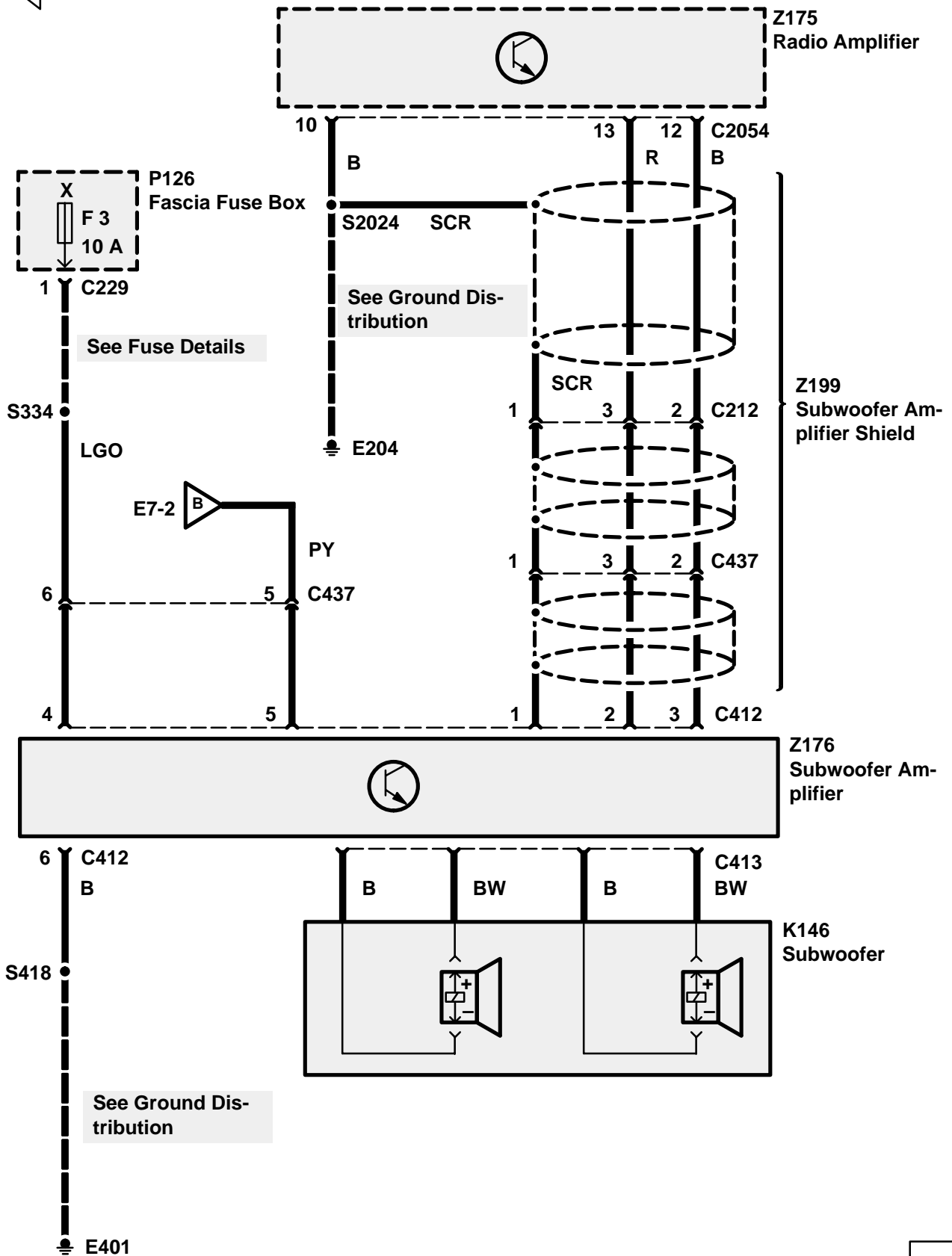
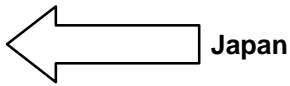


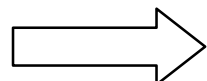
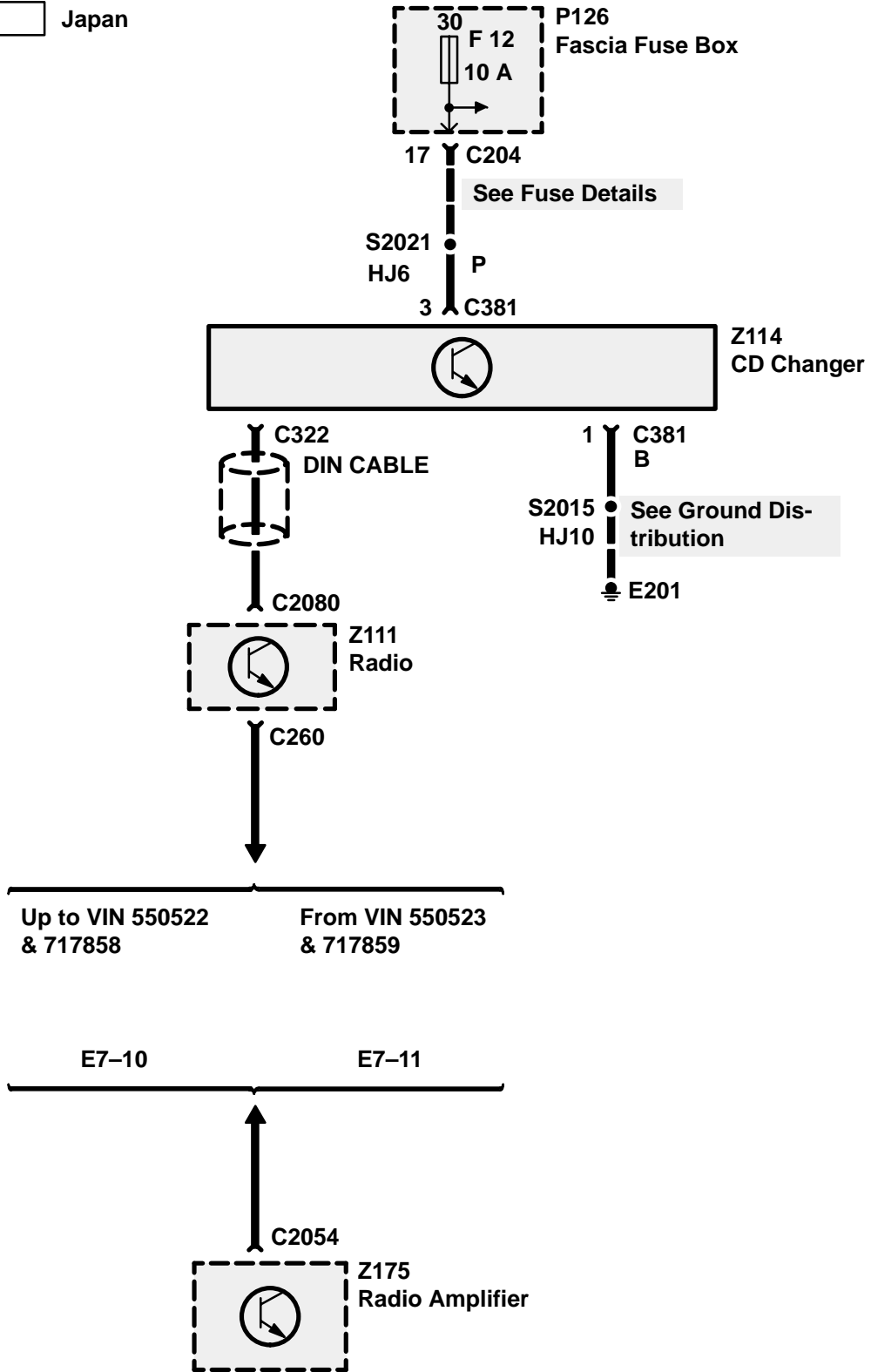
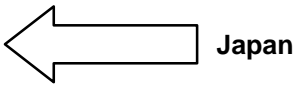


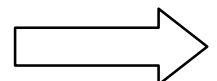
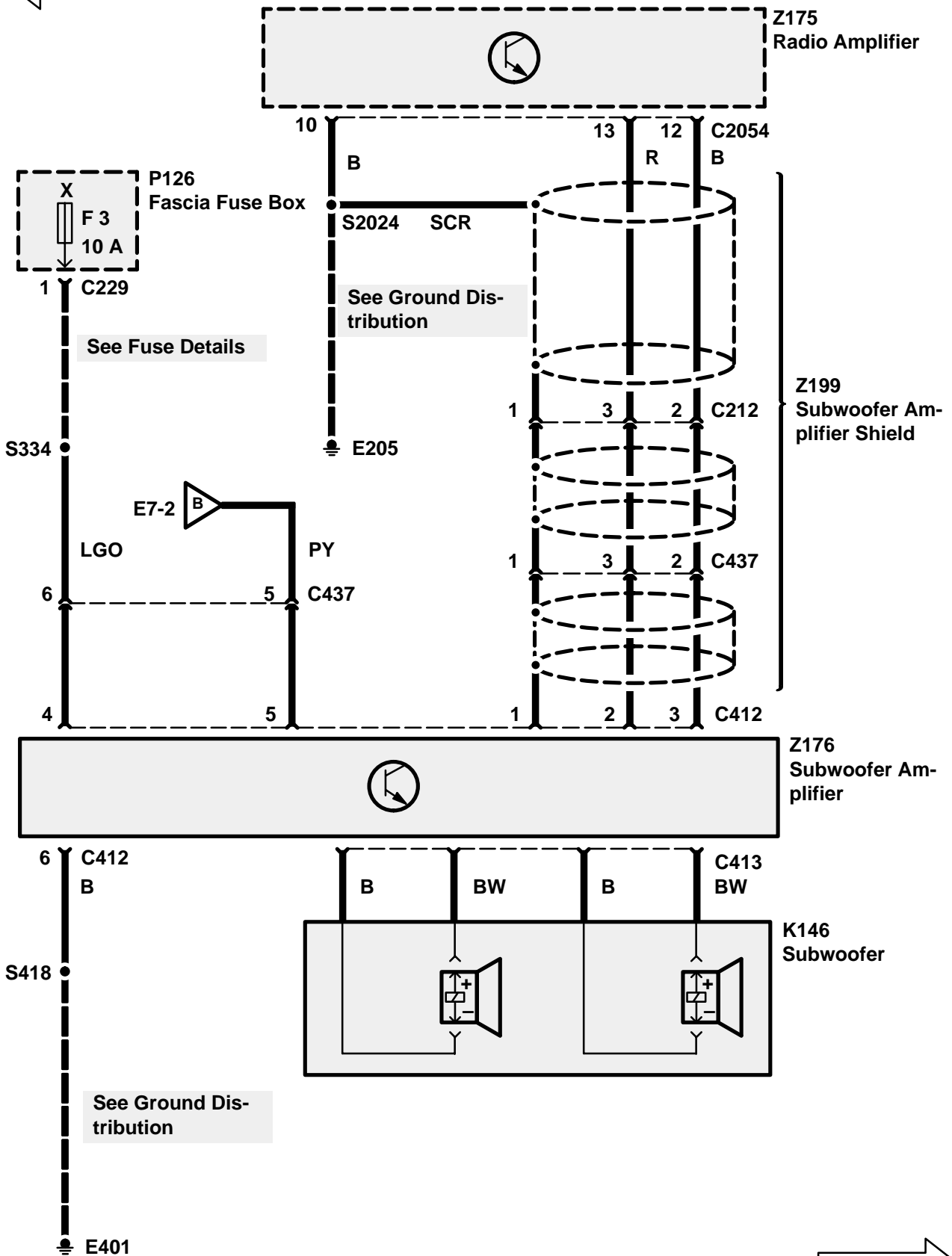
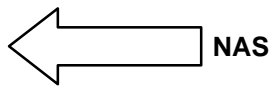


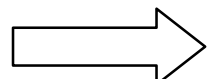
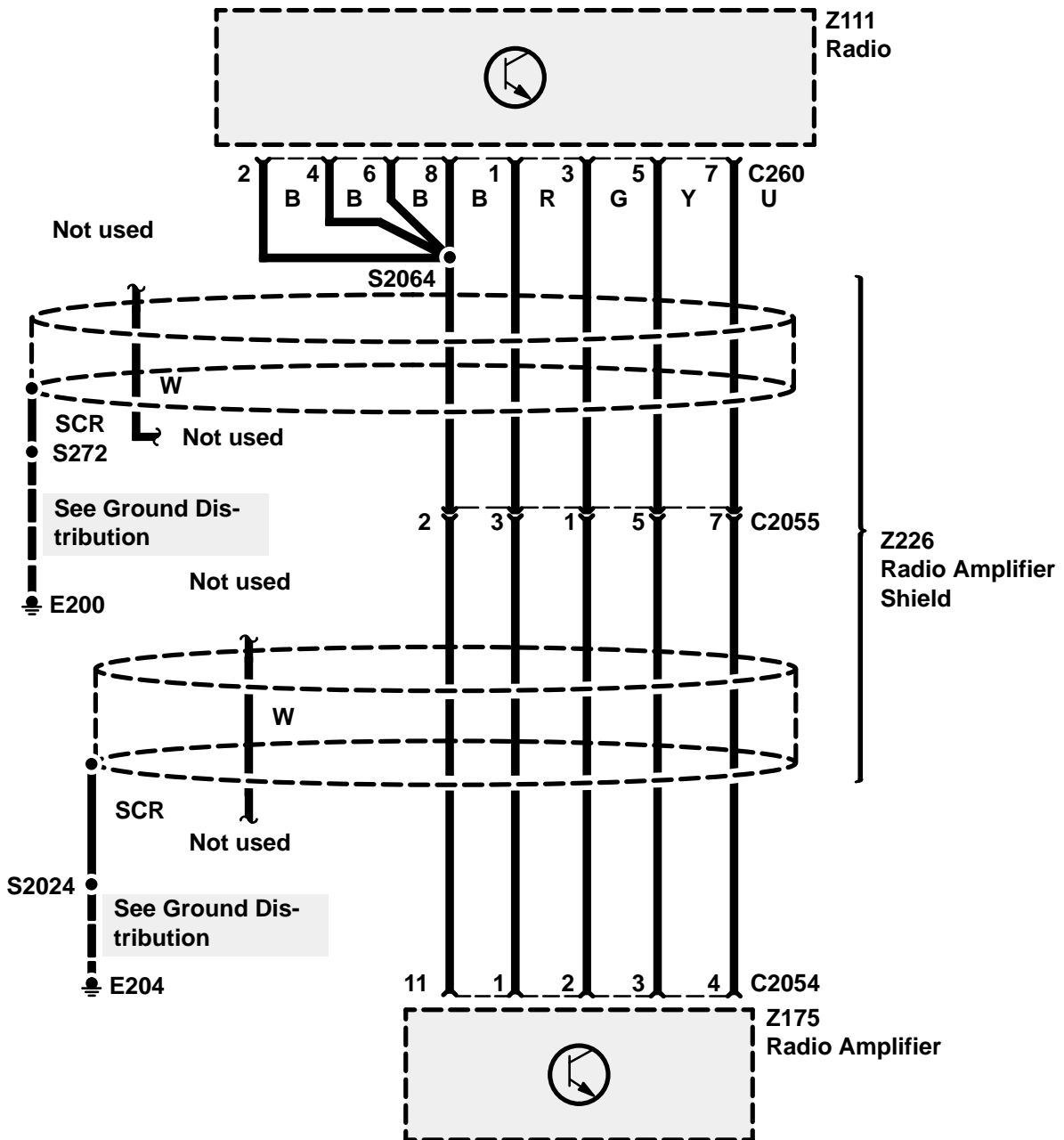
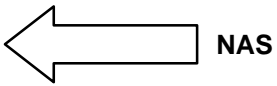


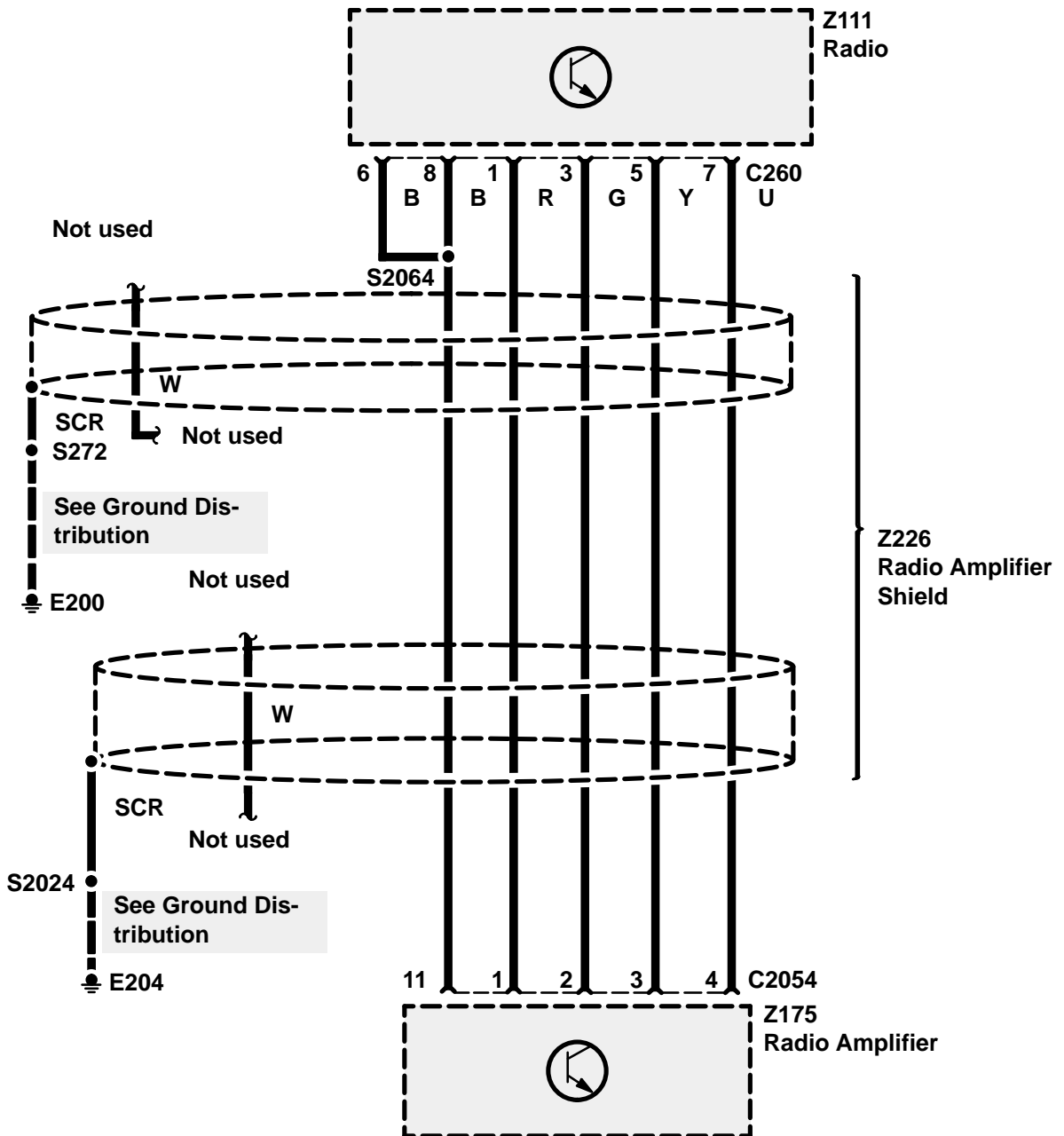
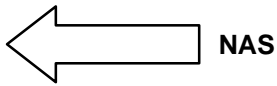


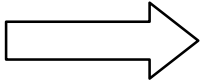
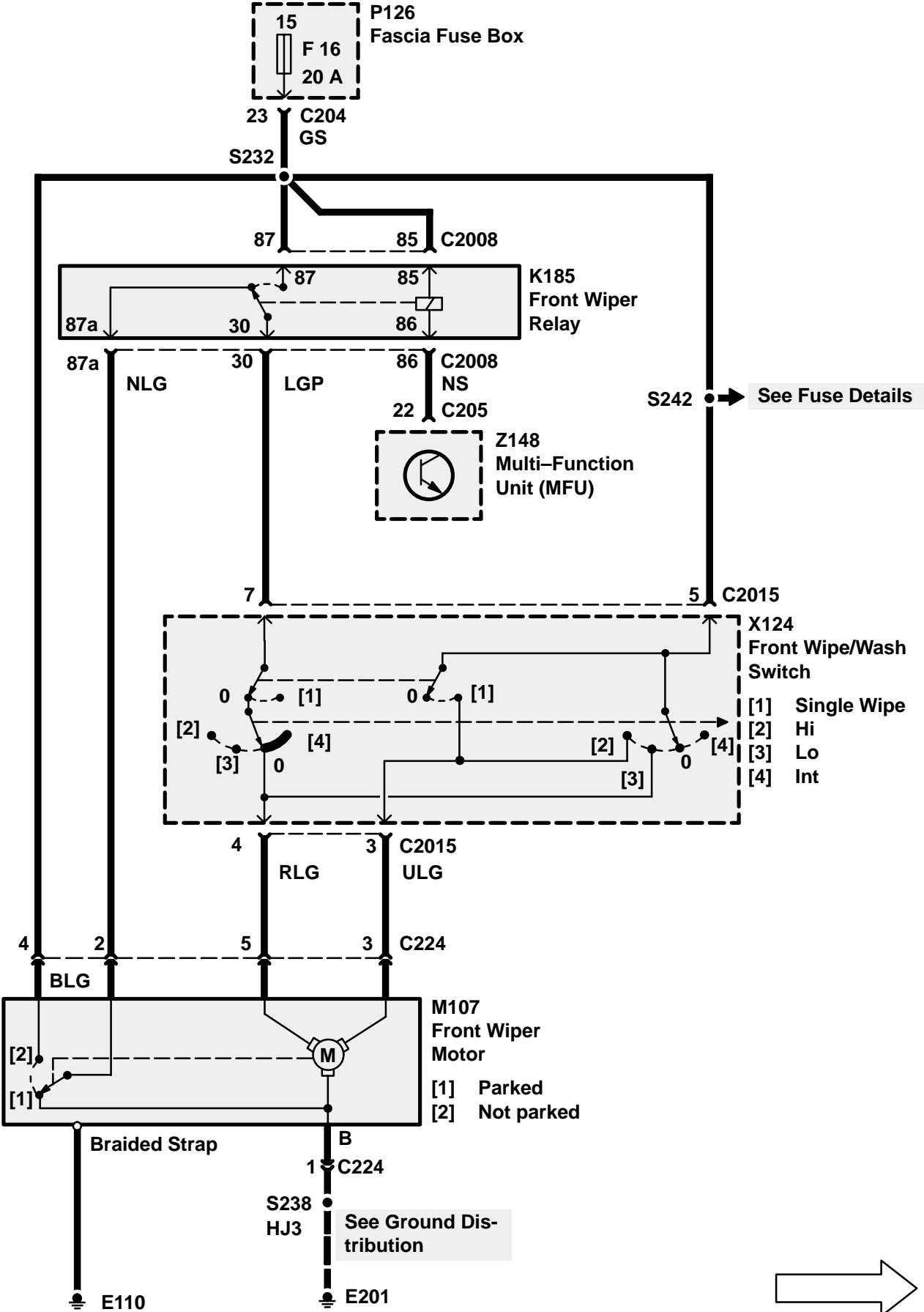




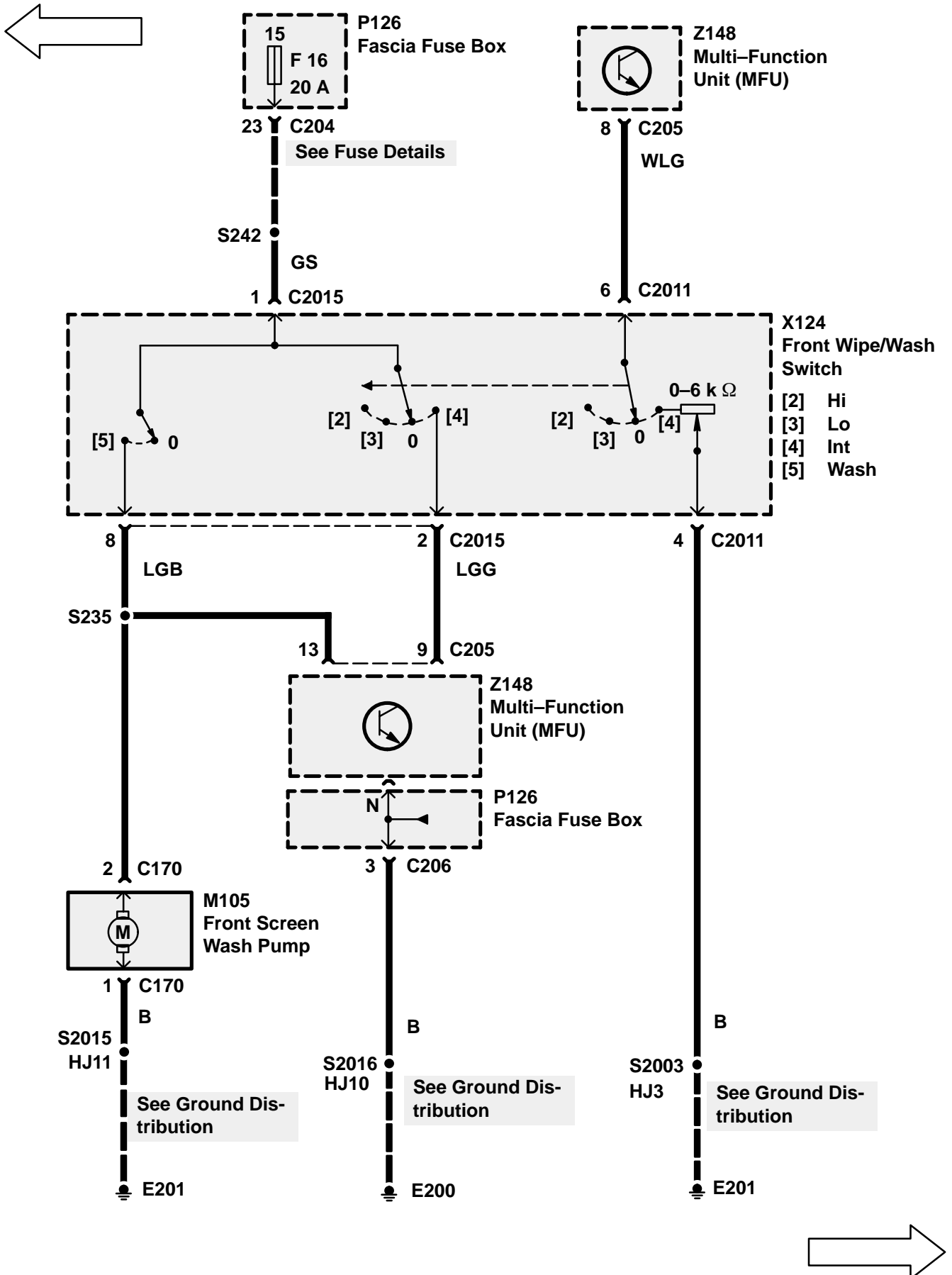


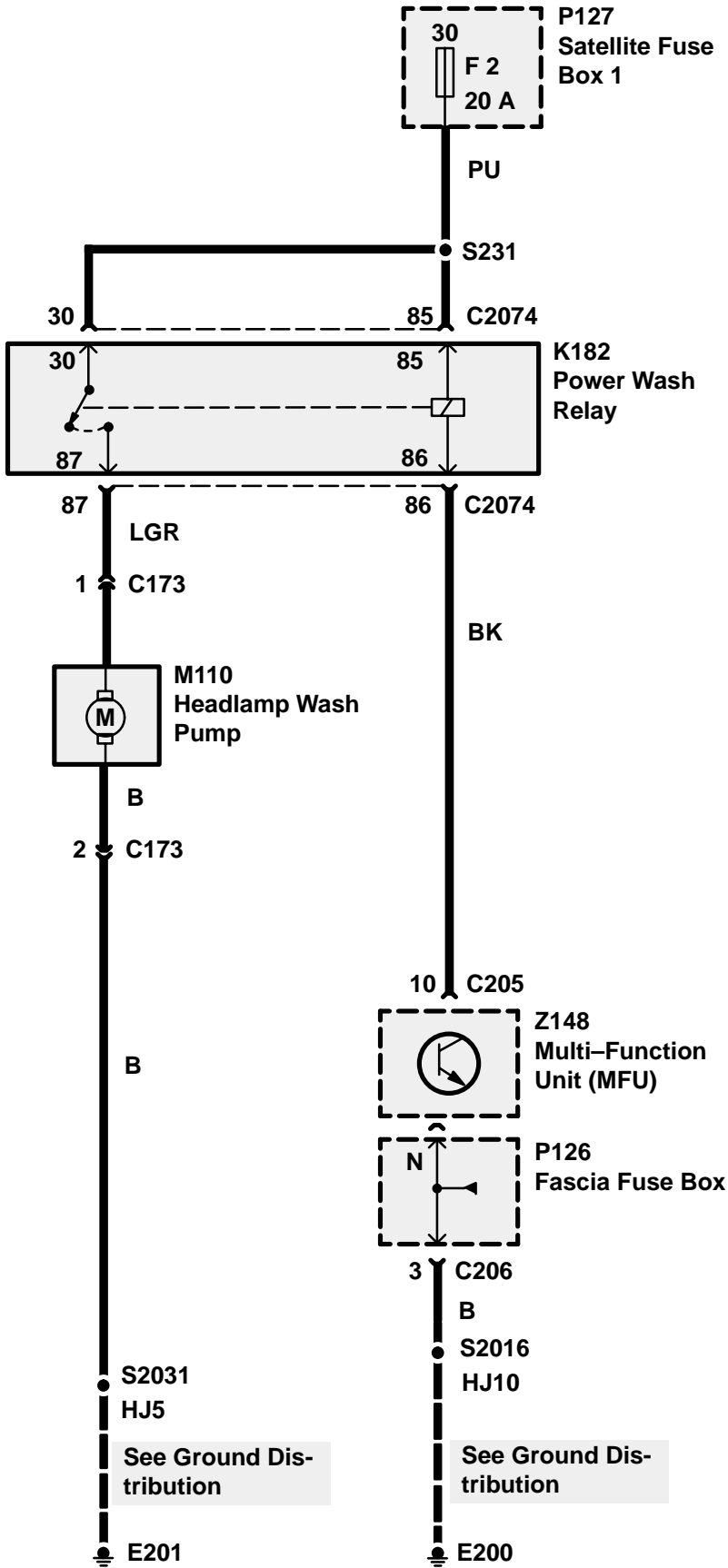
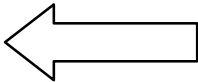












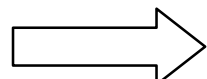
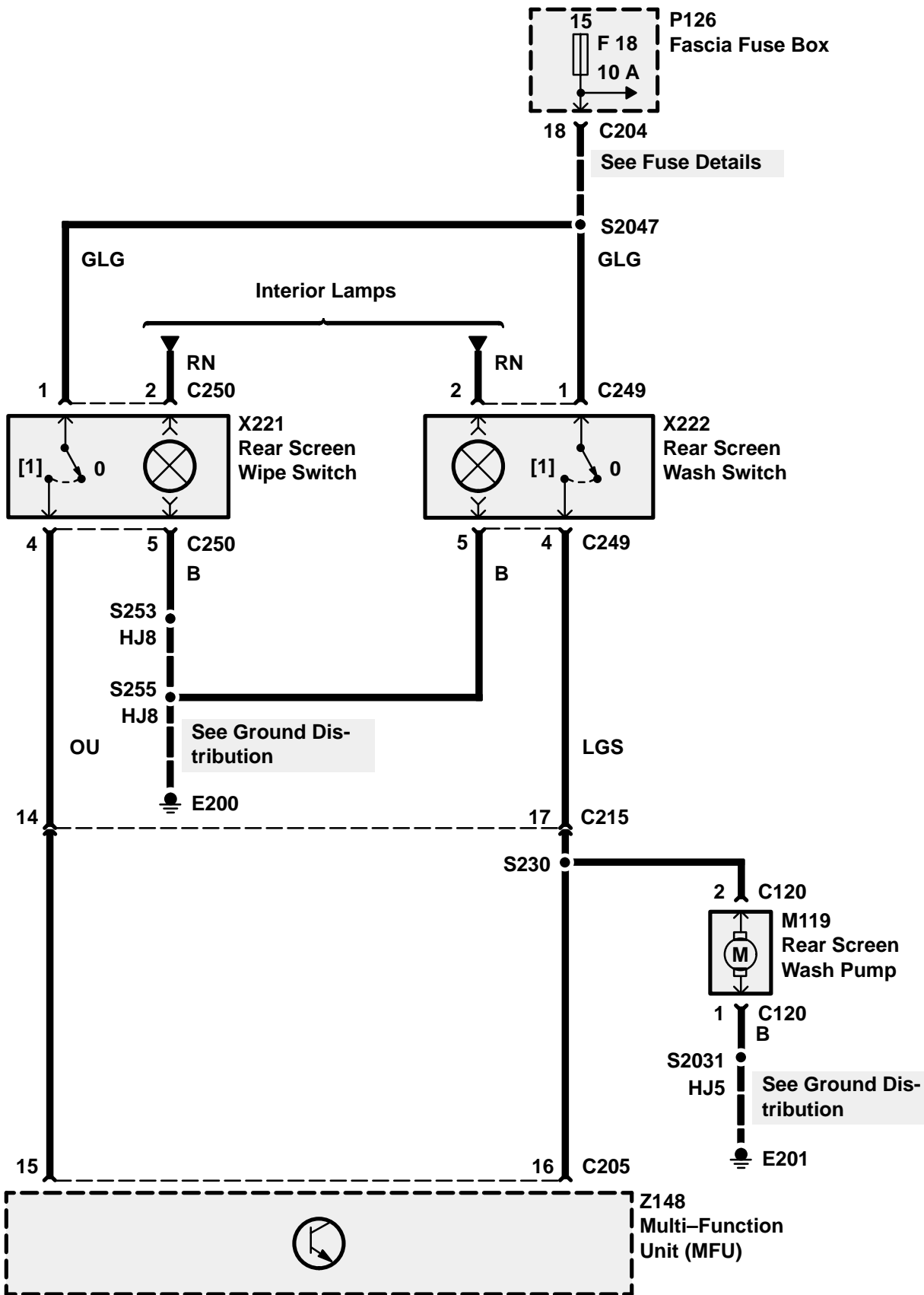
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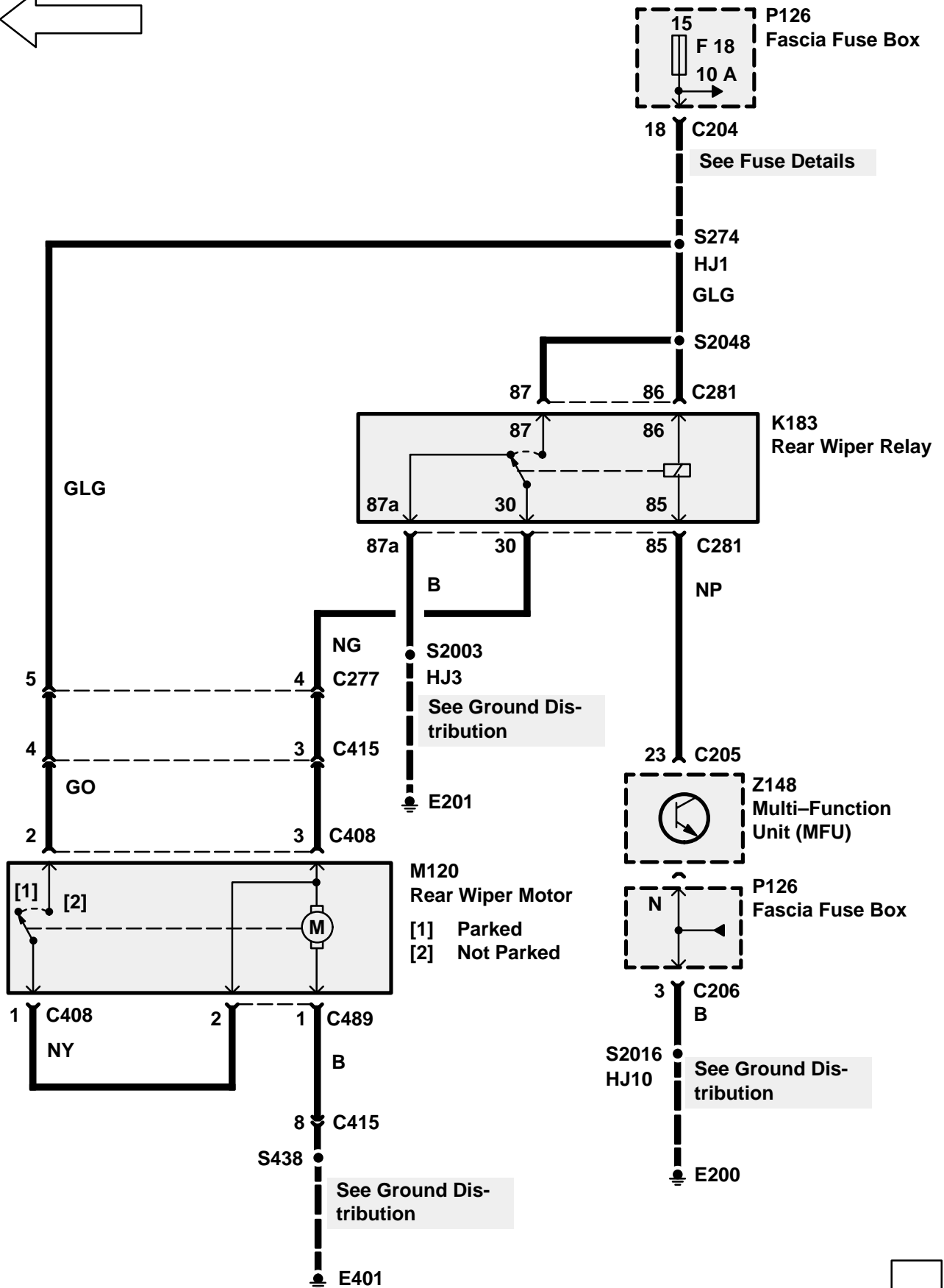
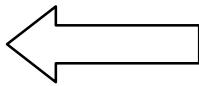
**CIRCUIT OPERATION****Washer**

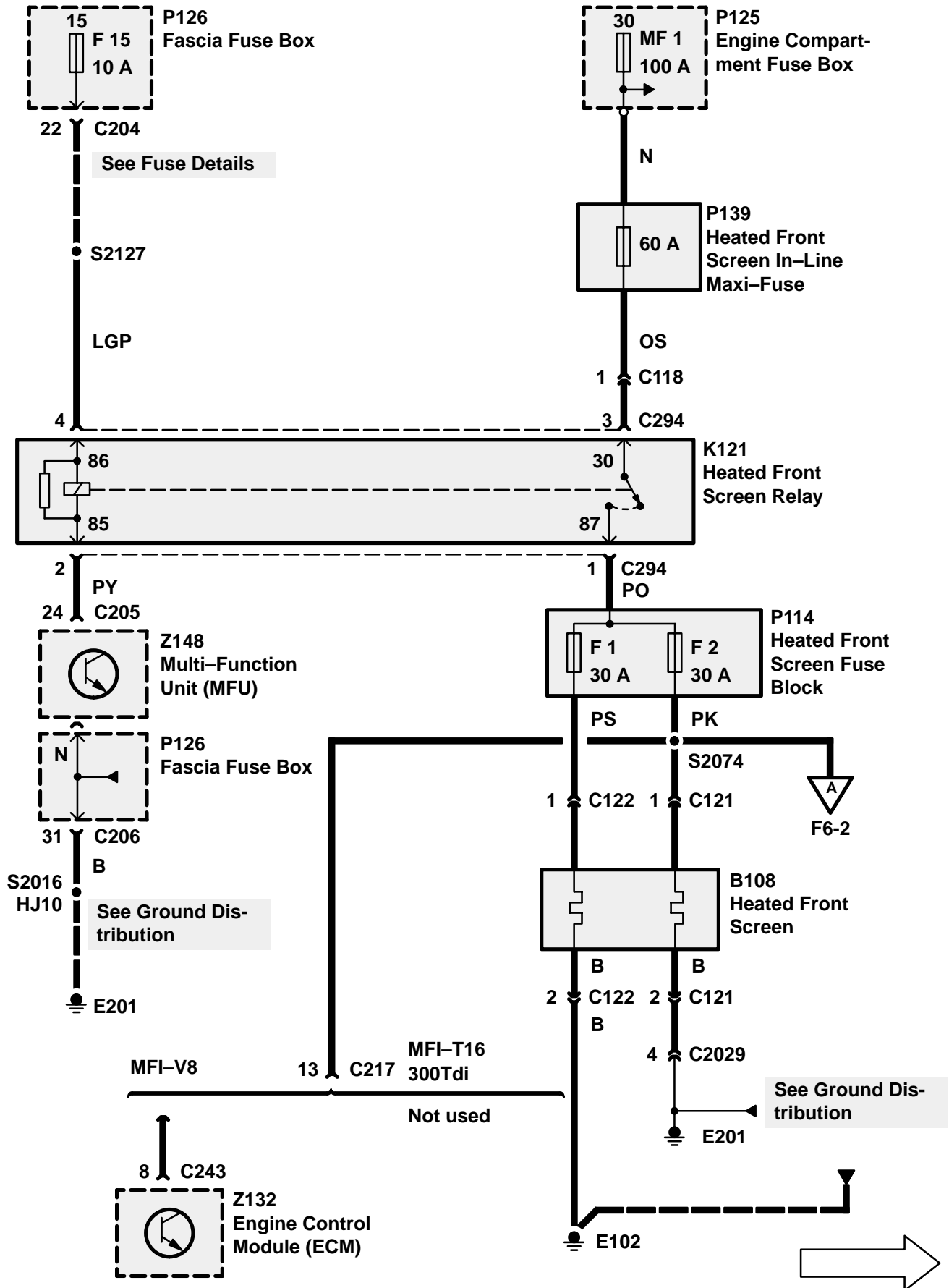
The Rear Screen Wash Pump (M119) motor is grounded at all times. The motor runs when battery voltage is applied to the motor through the Rear Screen Wash Switch (X222) when the switch is switched to the WASH position.

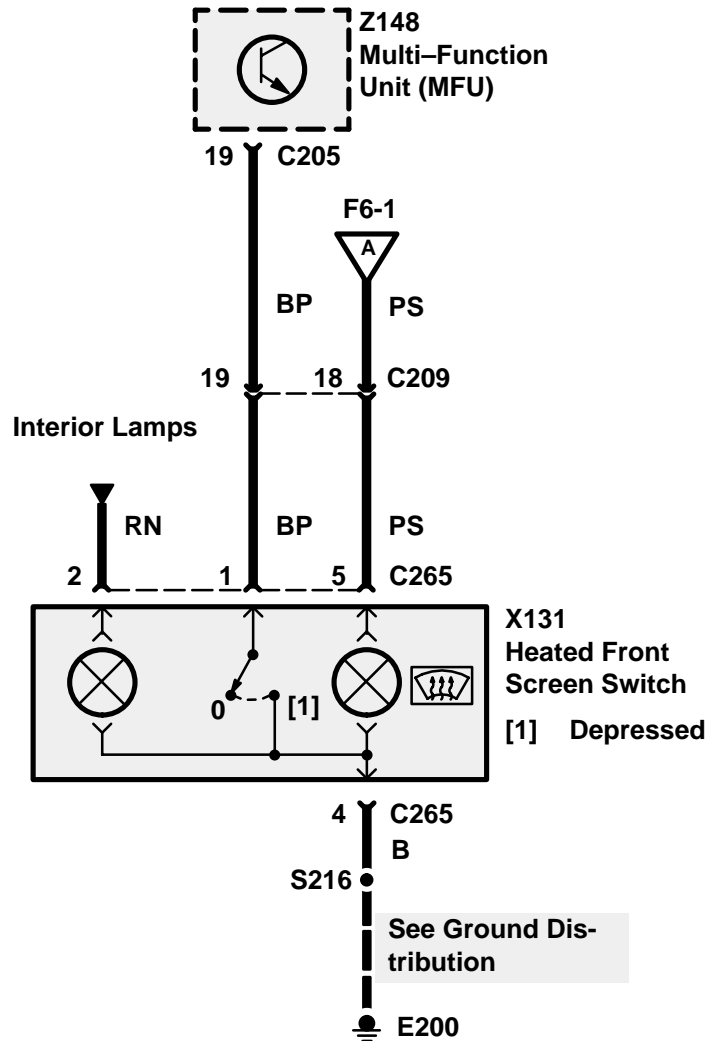
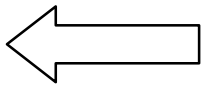
**Wiper**

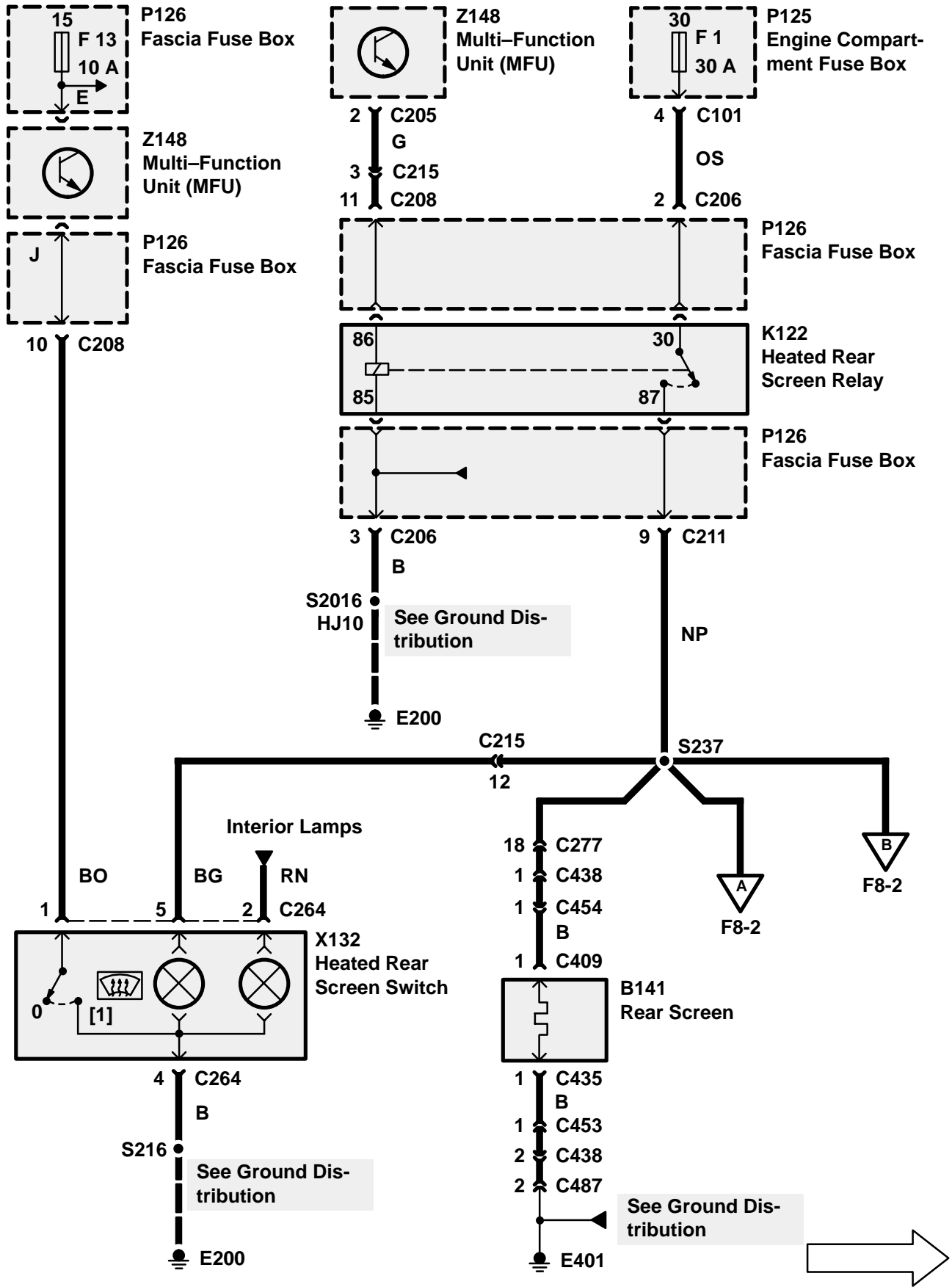
When the Rear Wipe Switch (X221) is pulled to the WIPE position, the Multifunction Unit (MFU) (Z148) applies ground to the Rear Wipe Relay (K183). Battery voltage is then applied to the Rear Wiper Motor (M120) from Fuse F18.



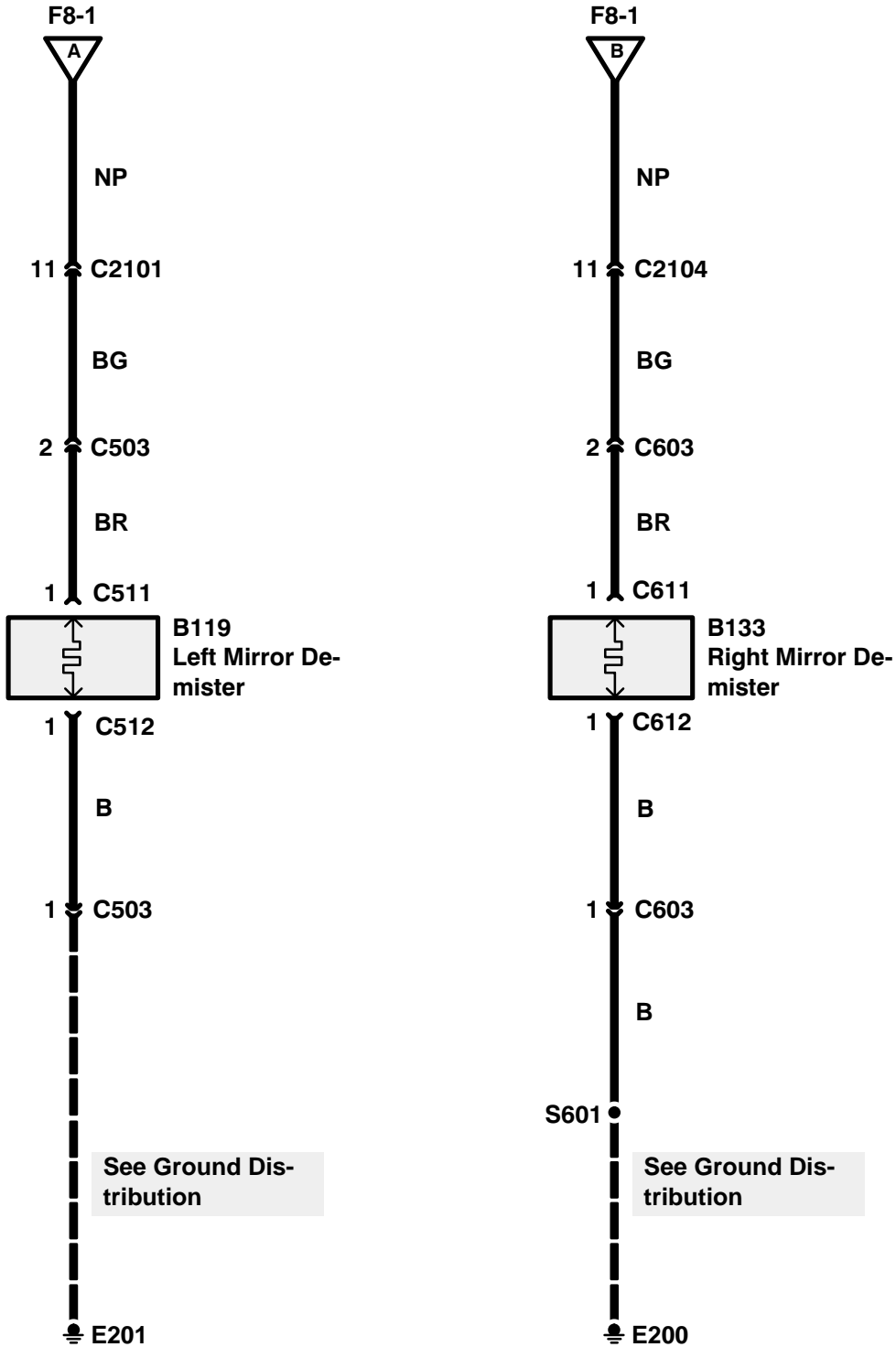
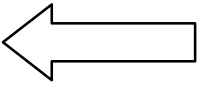


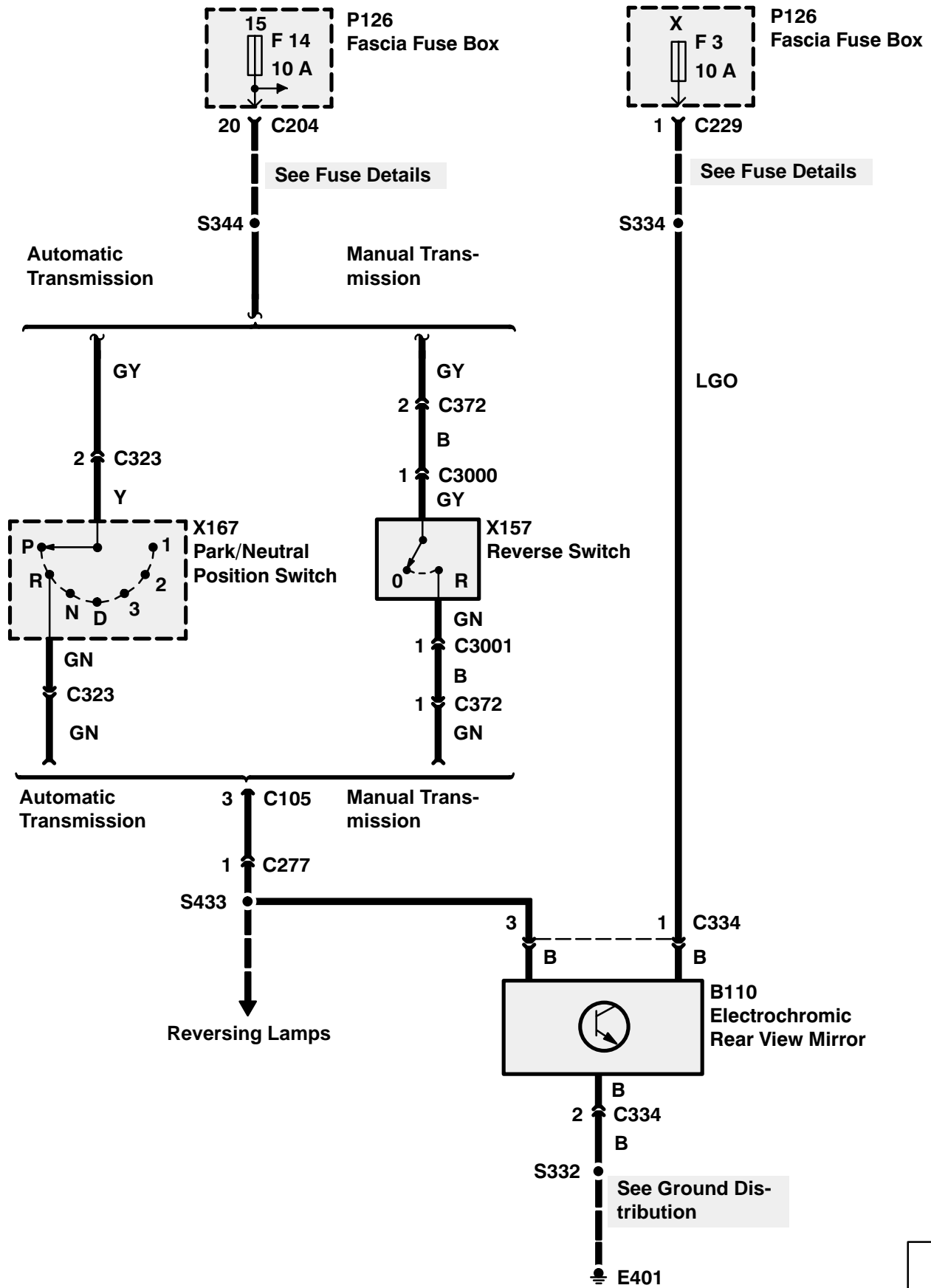












## CIRCUIT OPERATION

### Multi-Function Unit (MFU)

The multi-function unit (MFU) is mounted on the rear of the passenger compartment fusebox and has an input to operation of the following:

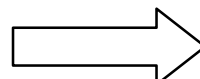
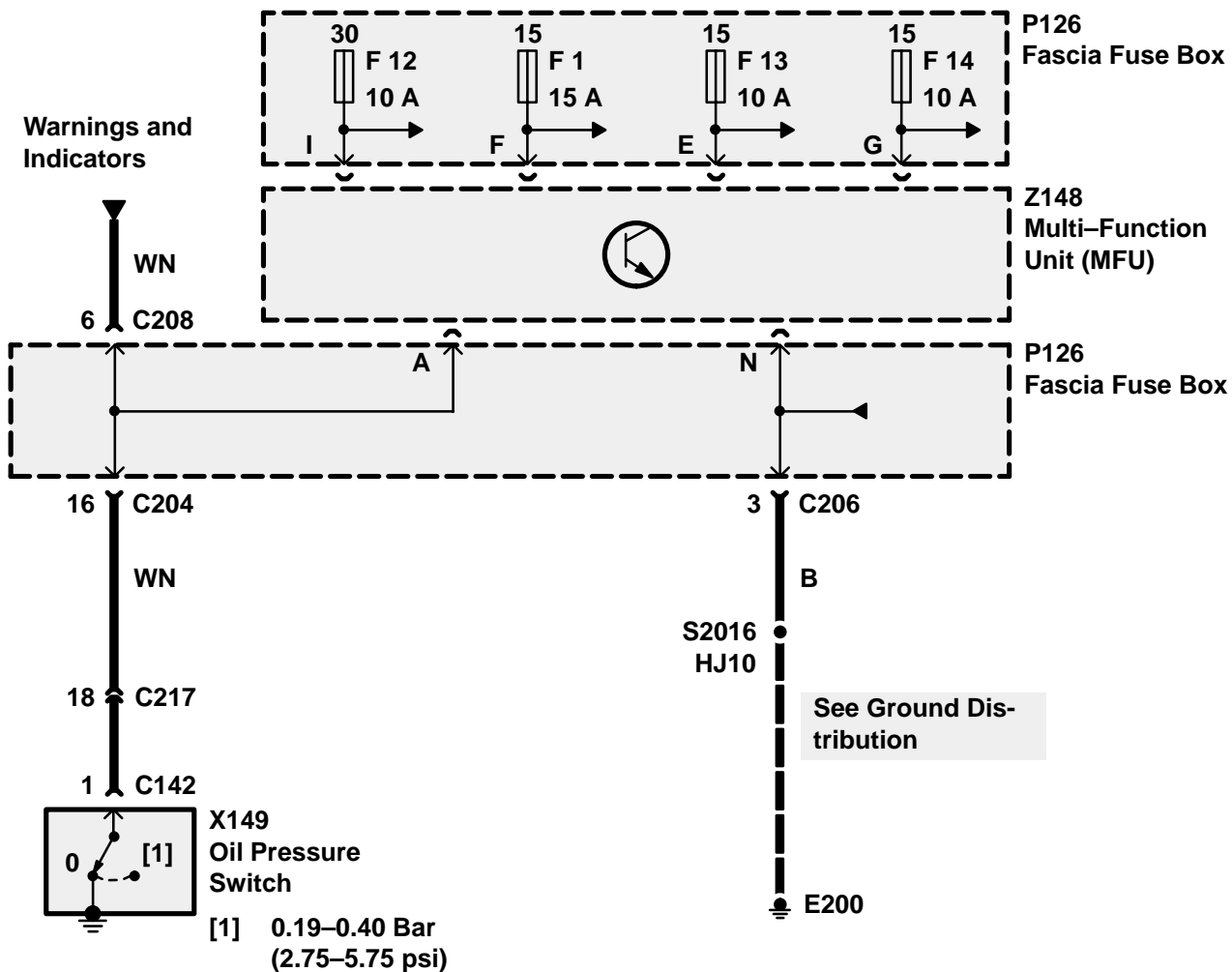
- Heated rear screen
- Heated front screen
- Courtesy lights
- Side and headlights
- Rear fog guard lamps
- Headlamp power wash
- Front wipers
- Rear wash/wipe

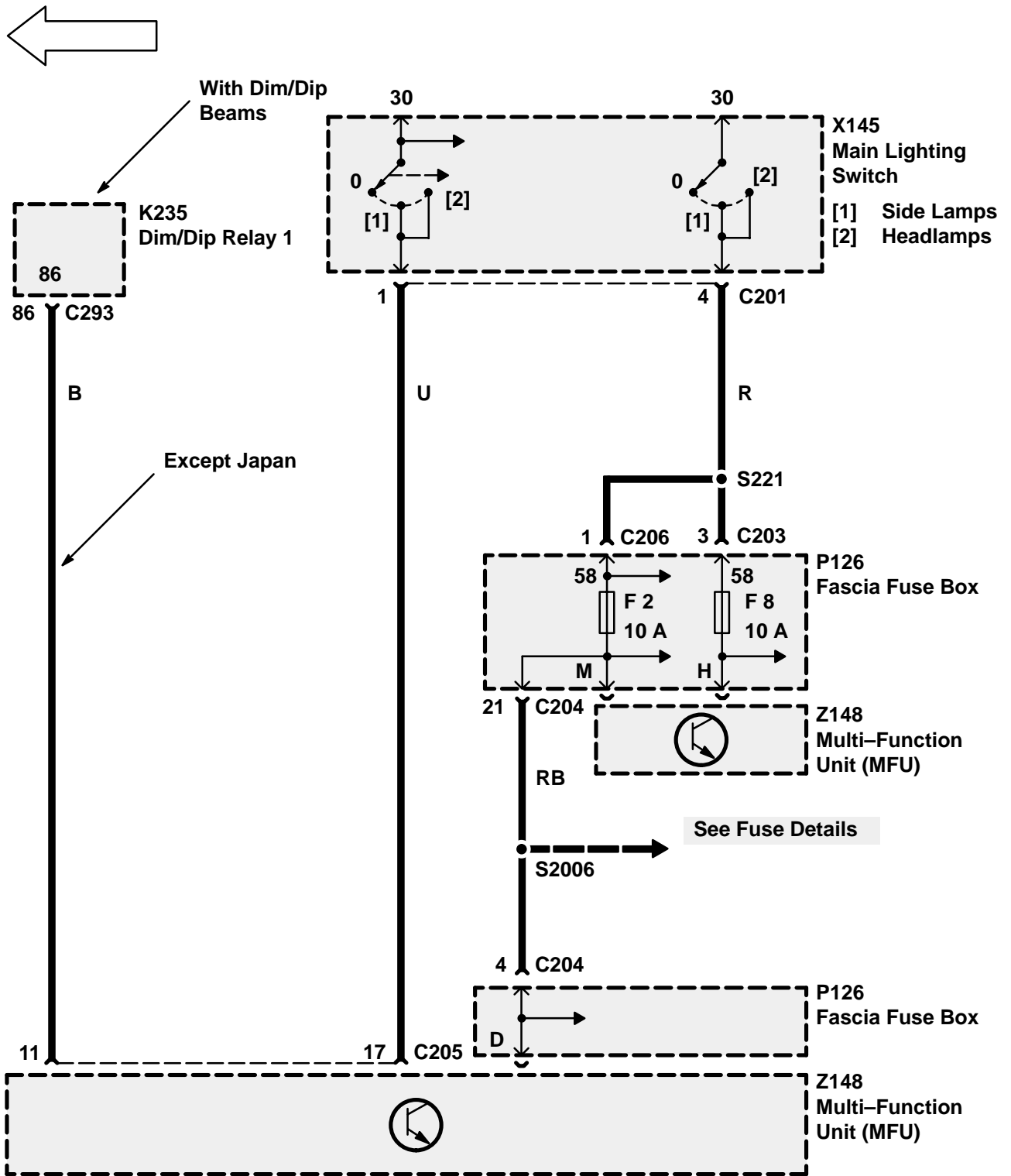
### Diagnostic Procedure

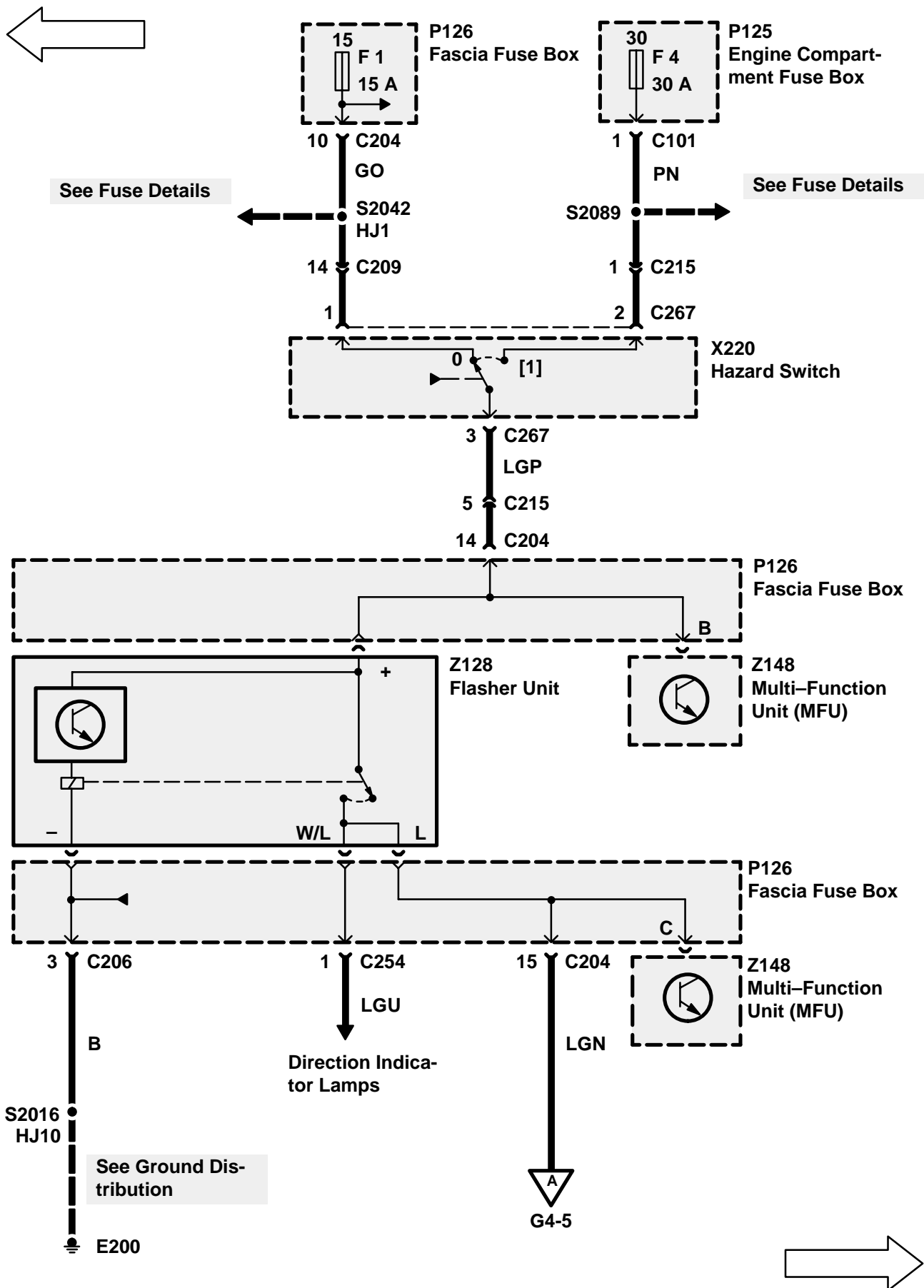
1. Close all doors and the tailgate.

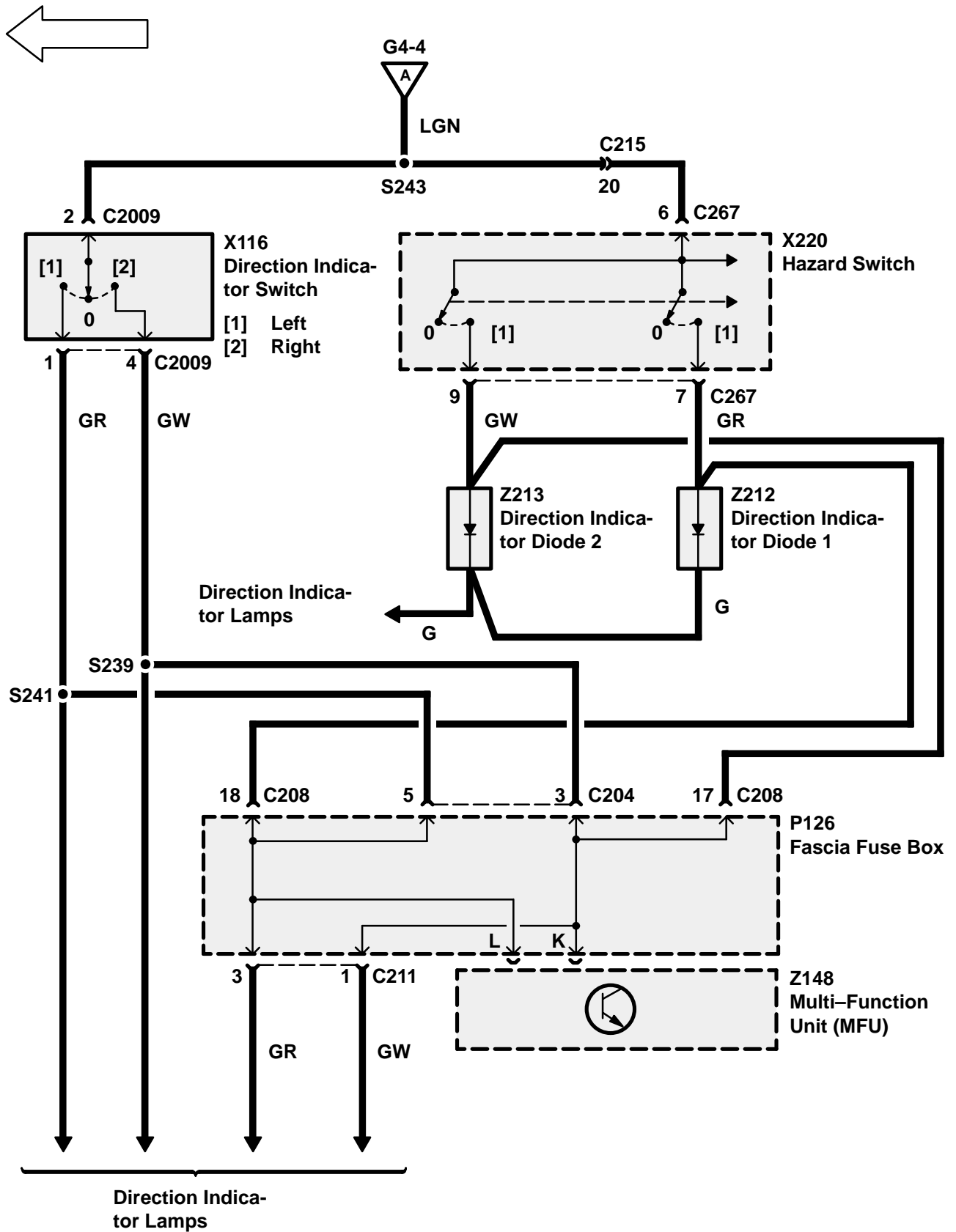
**NOTE: If the oil pressure switch goes open circuit (engine is started) during the following procedure, the MFU will exit the diagnostic mode immediately.**

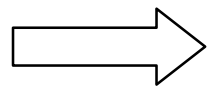
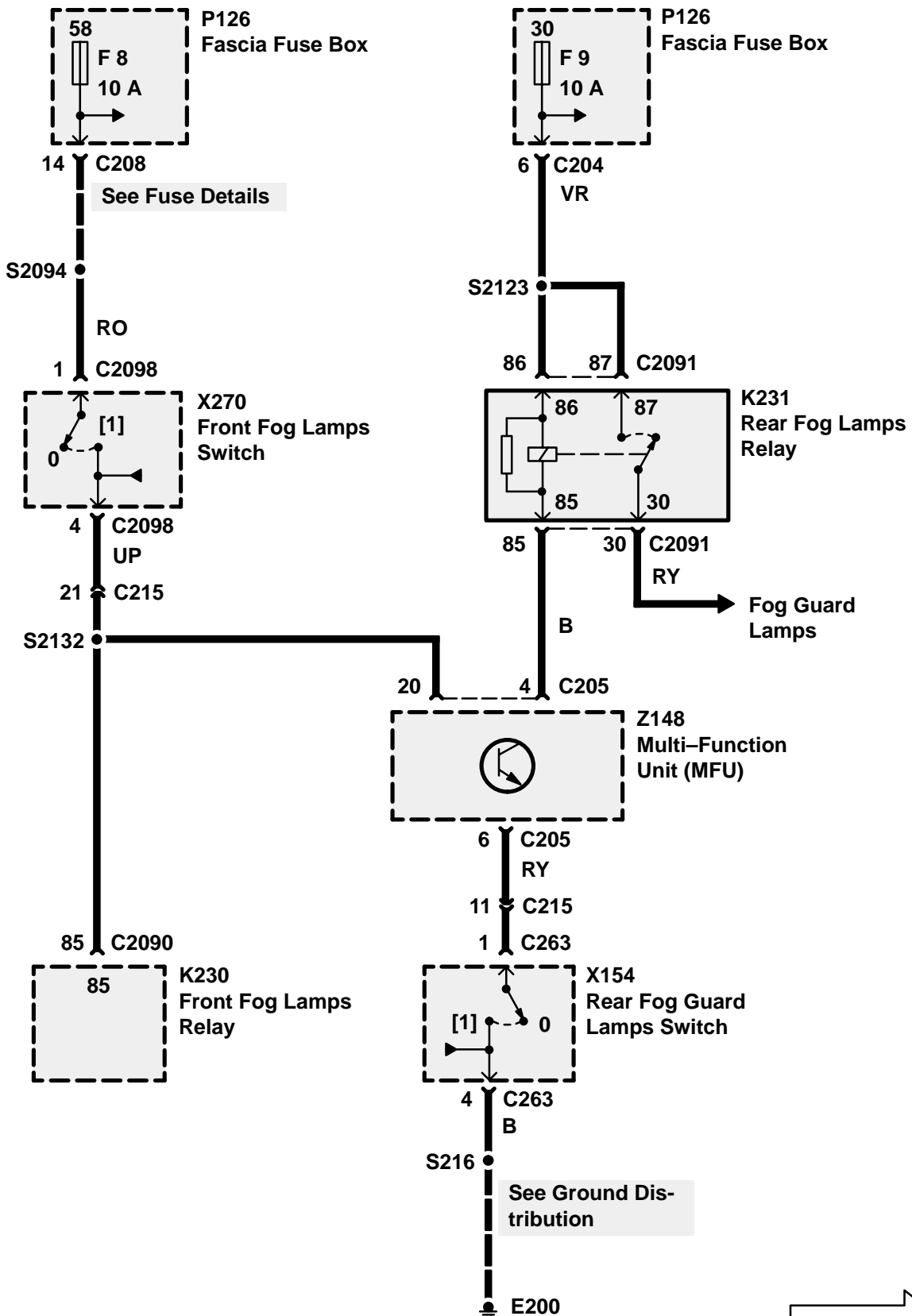
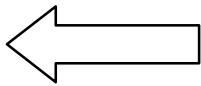
2. Press and hold the heated rear screen switch and switch on the ignition.
3. Release the heated rear screen switch within 2 seconds and the MFU will beep to indicate that it's in diagnostic mode 1.
4. Press the heated rear screen switch; the MFU will beep twice. In turn, operate each of the following switches, heated front screen, rear fog guard lamps, side lights, headlights, front wiper, and rear wiper. The MFU will beep twice each time a switch is operated.
5. Pressing the heated rear screen again will cause the MFU to enter diagnostic mode 2.
6. The MFU will provide outputs to the following in order given below:
  - Heated rear screen relay energised for 2 seconds
  - Heated front screen energised for 2 seconds
  - Courtesy lights energised for 2 seconds
  - Dim dip relay energised for 2 seconds
  - Rear fog guard lamp energised for 2 seconds
  - Headlamp power wash energised for half a second
  - Front wiper energised for half a second
  - Rear wipe/wash energised for half a second
7. The MFU will then exit the diagnostic mode.



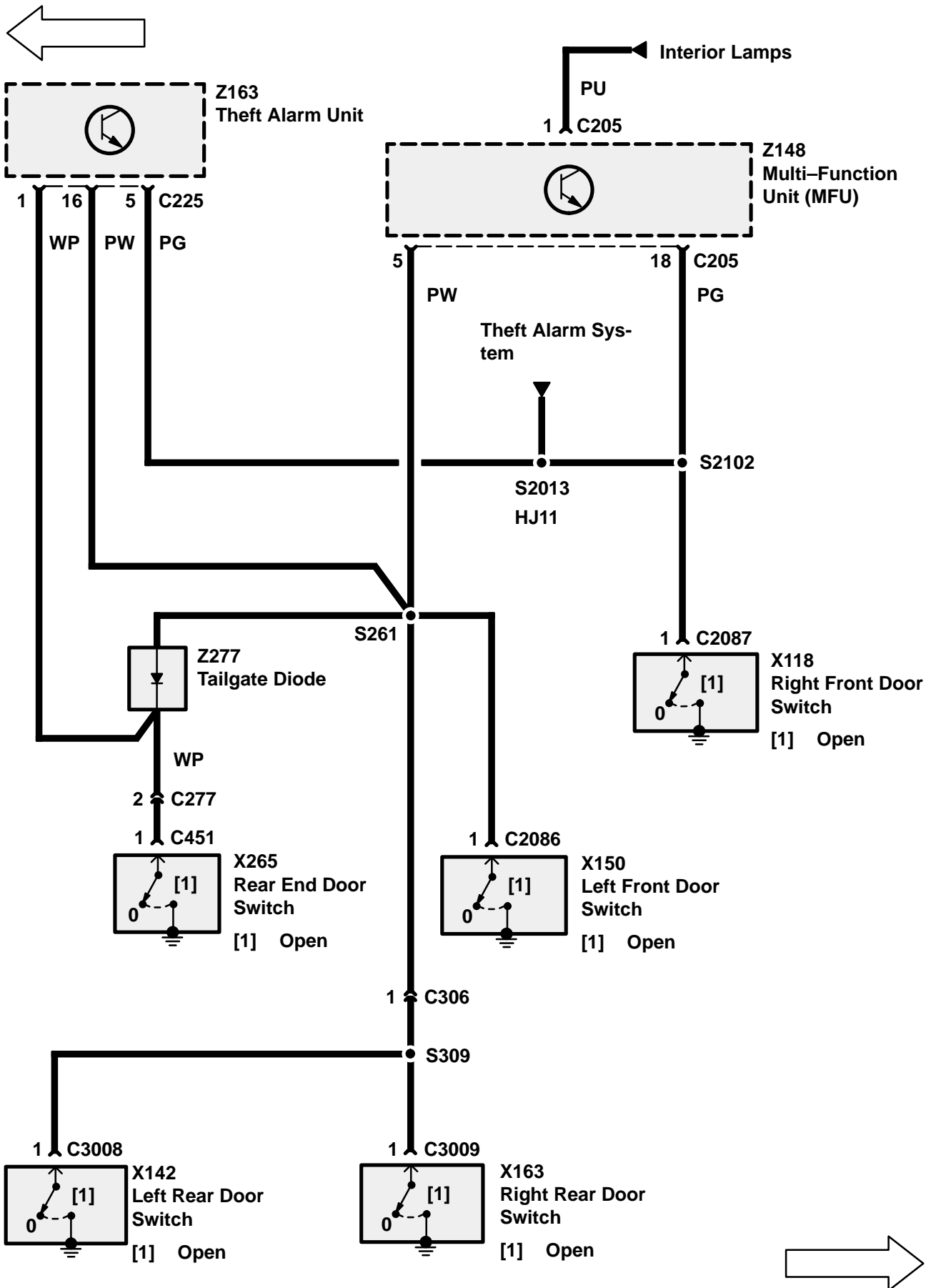


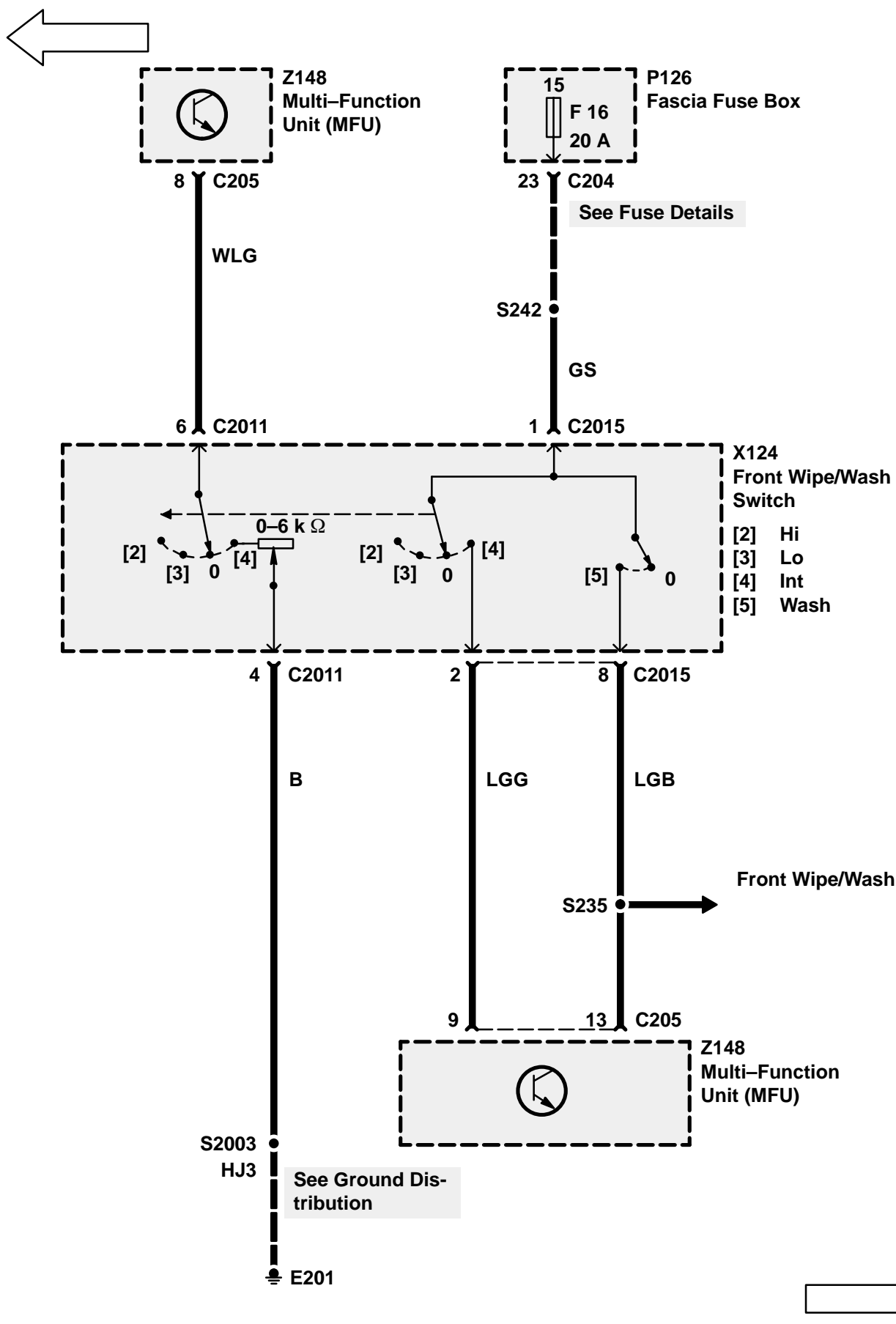


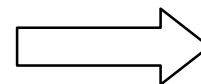
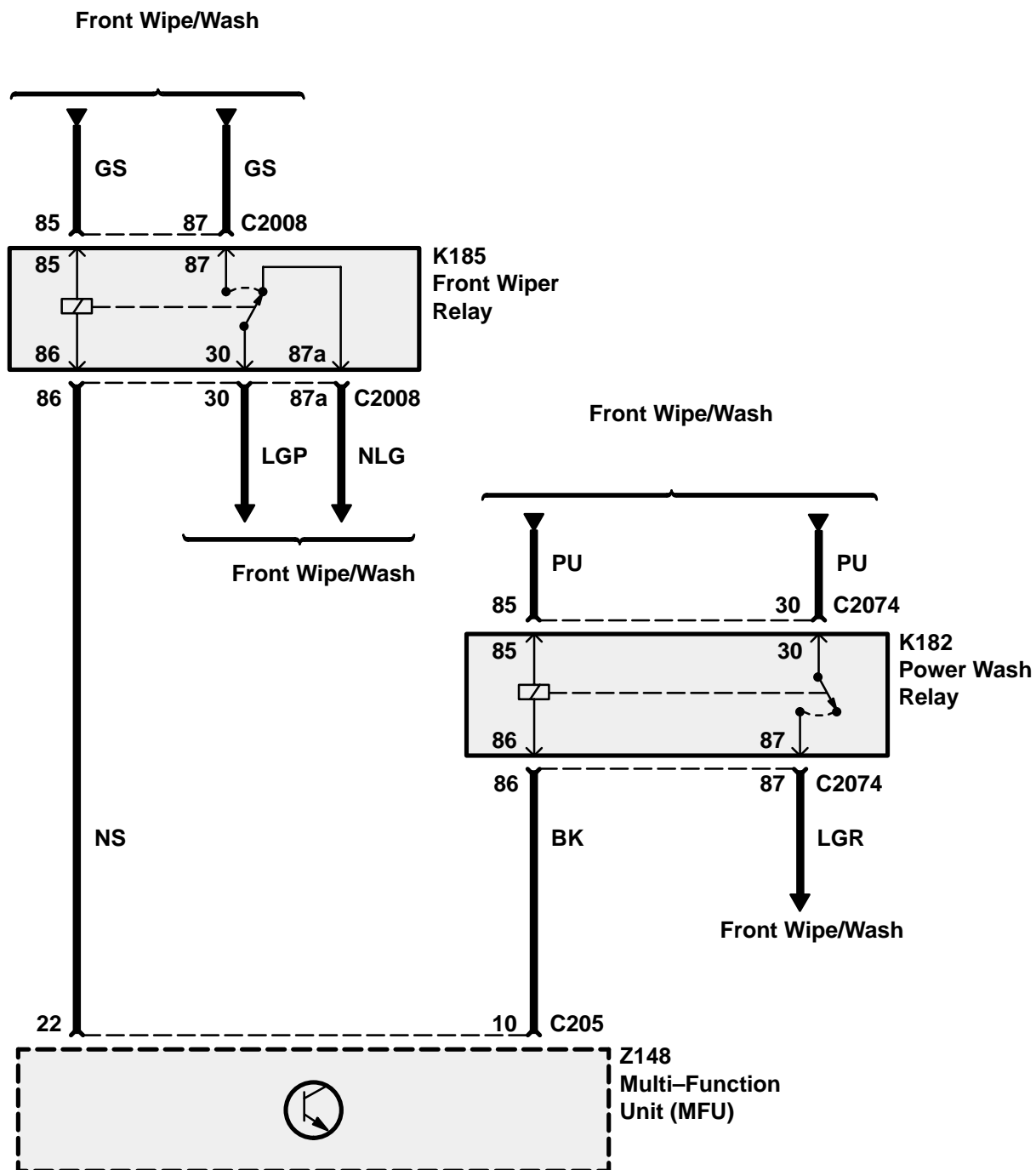
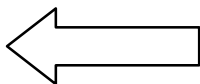


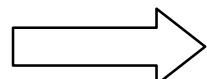
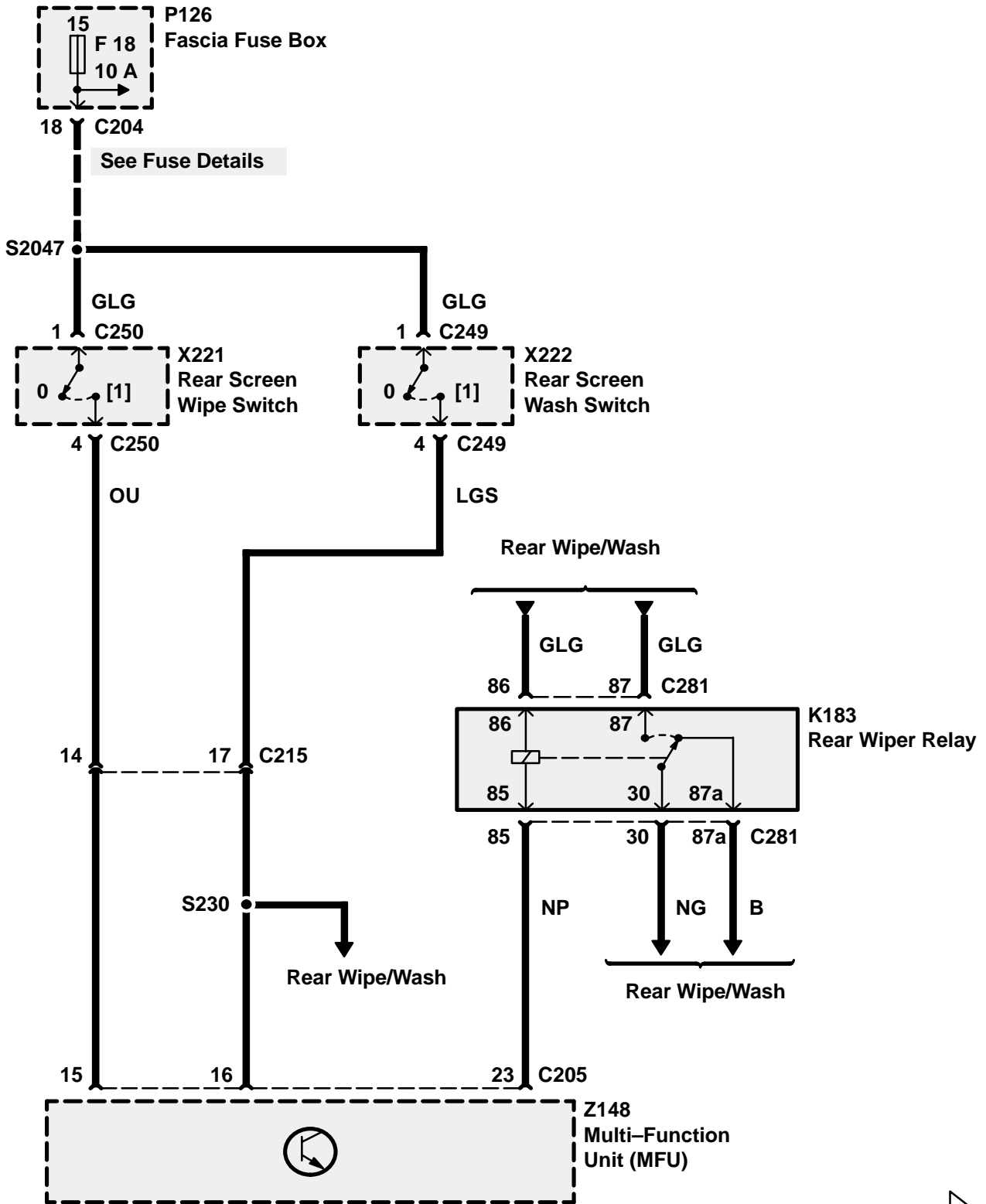
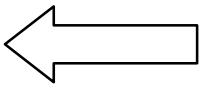


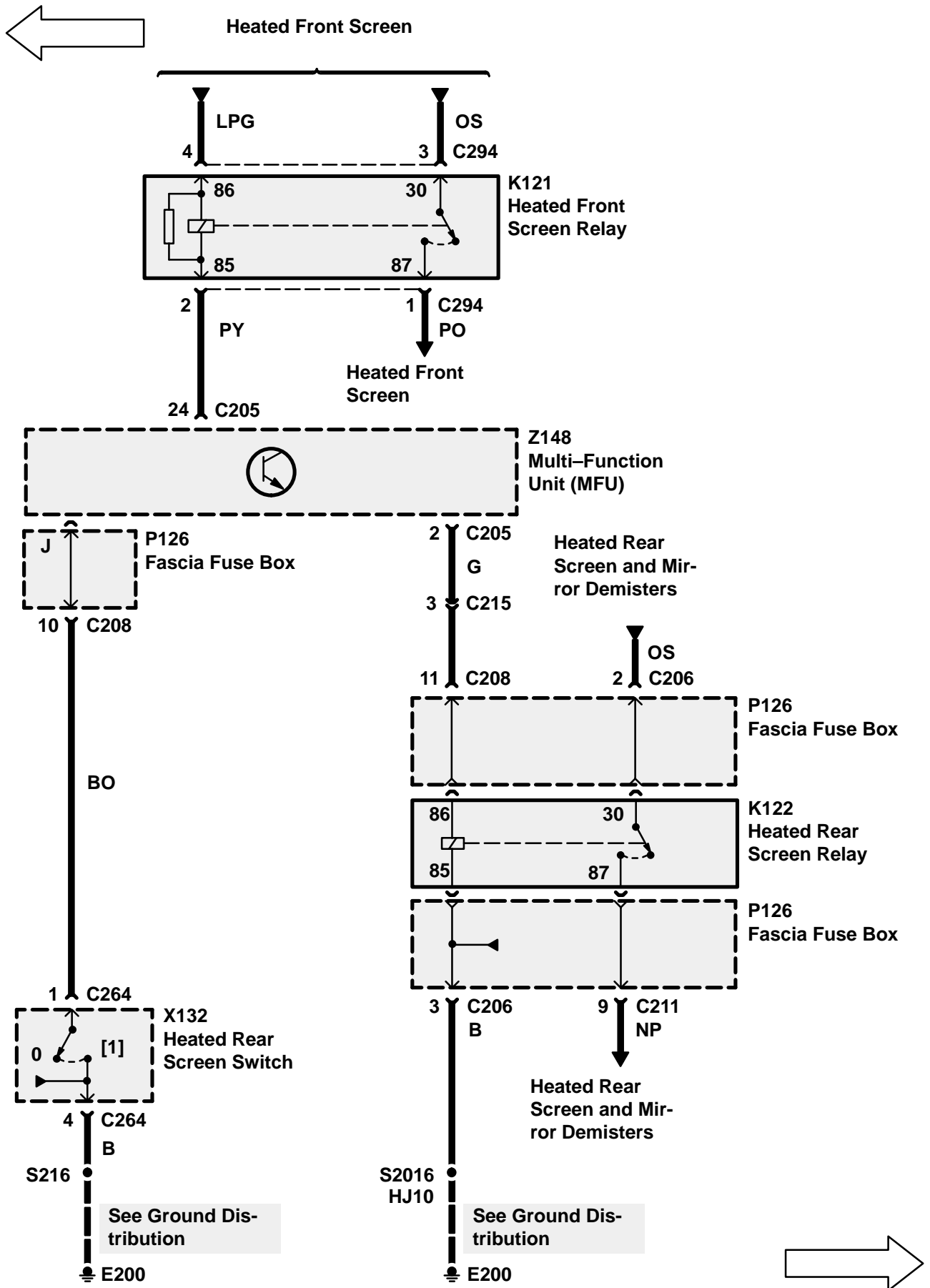


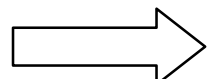
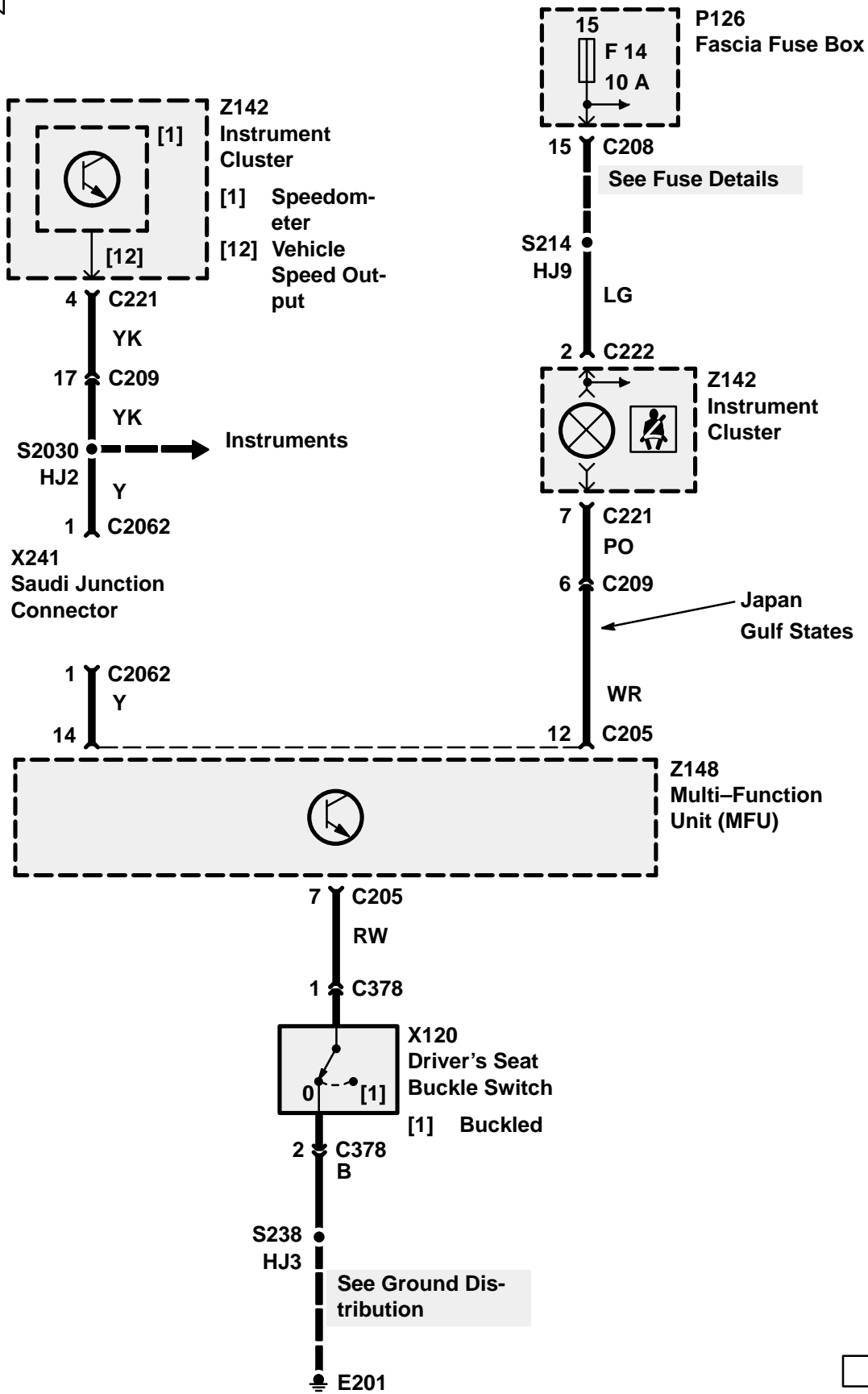
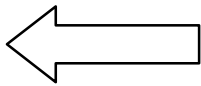


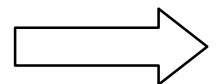
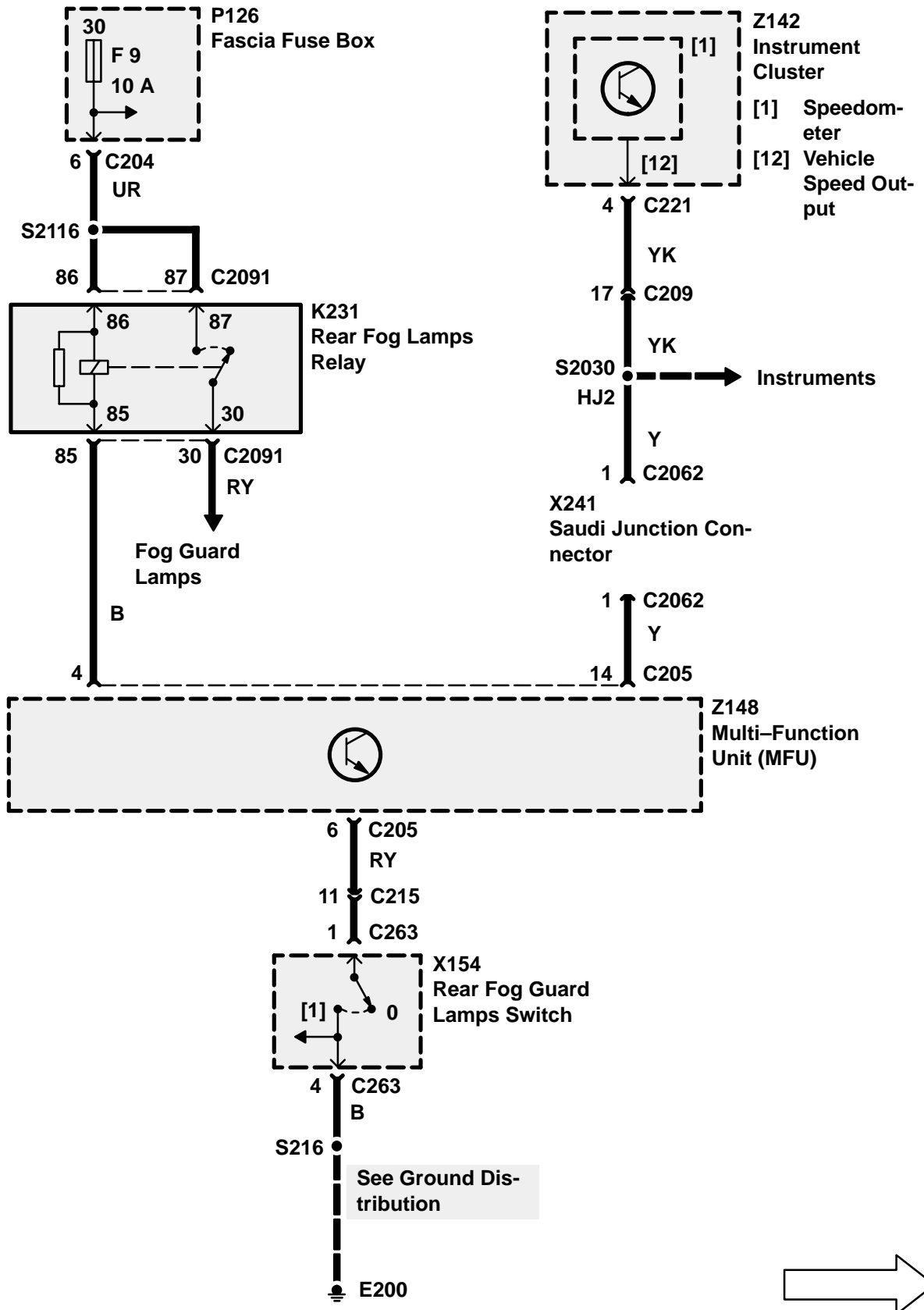
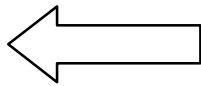


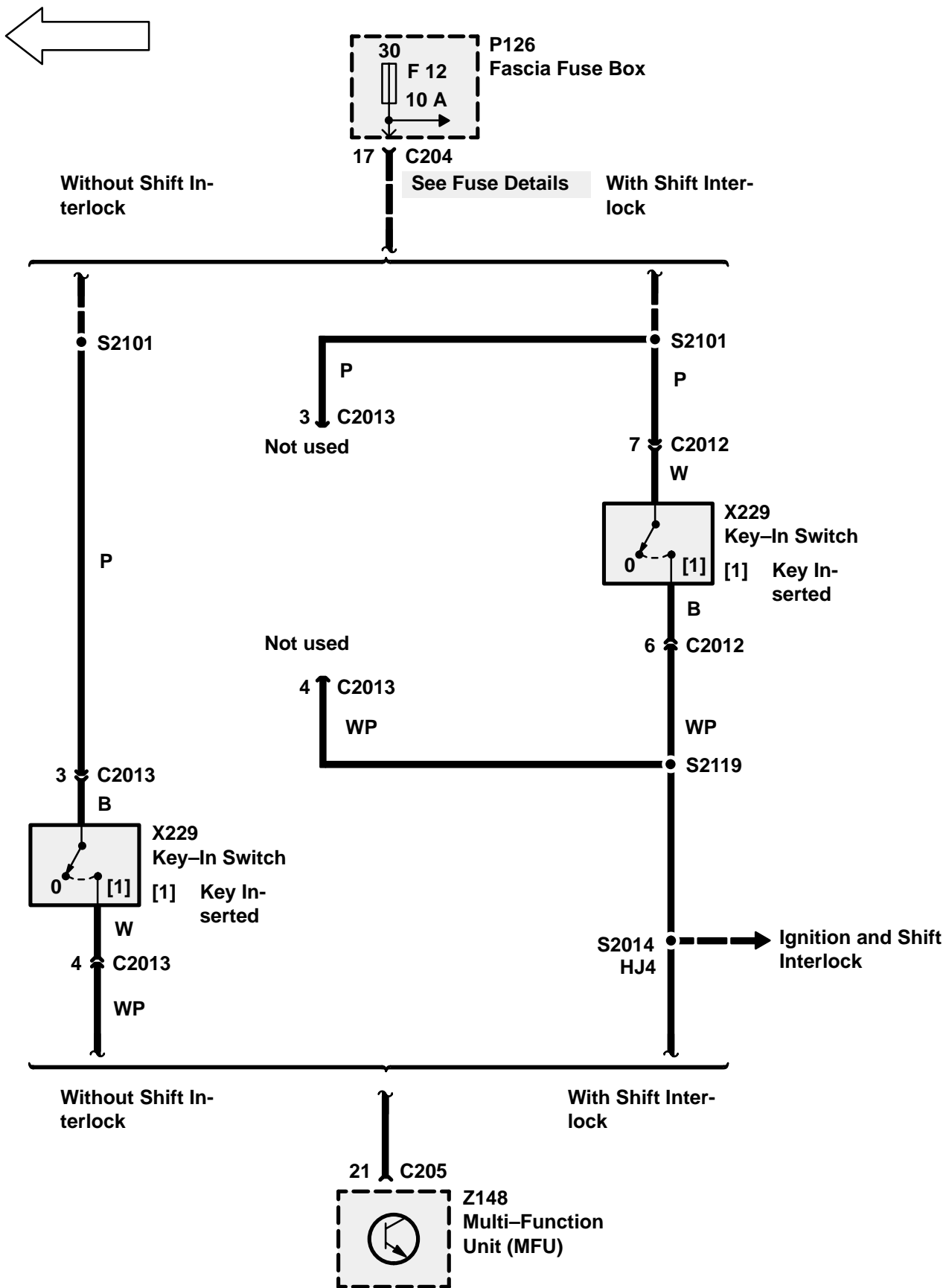




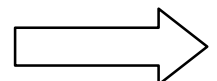
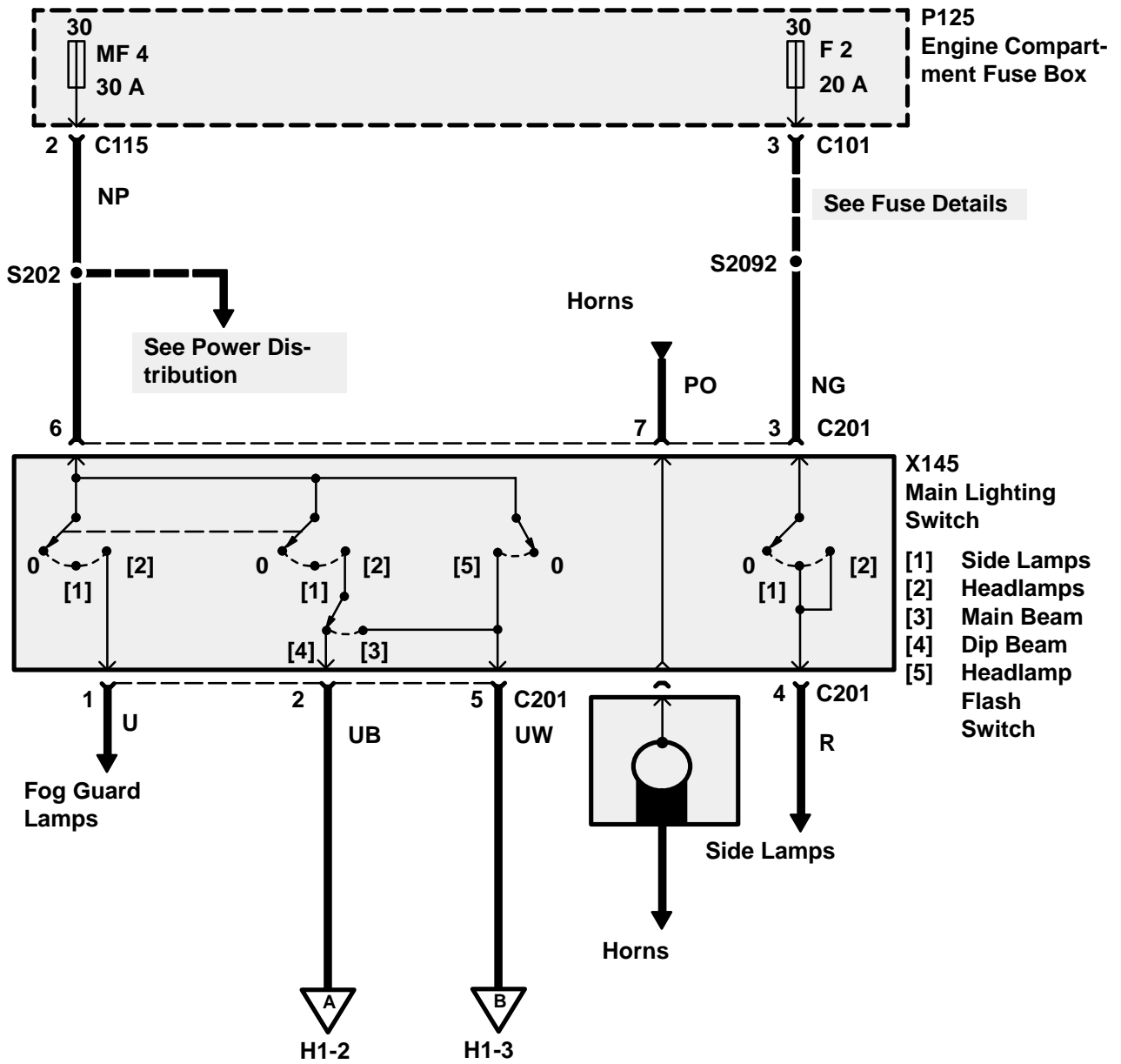


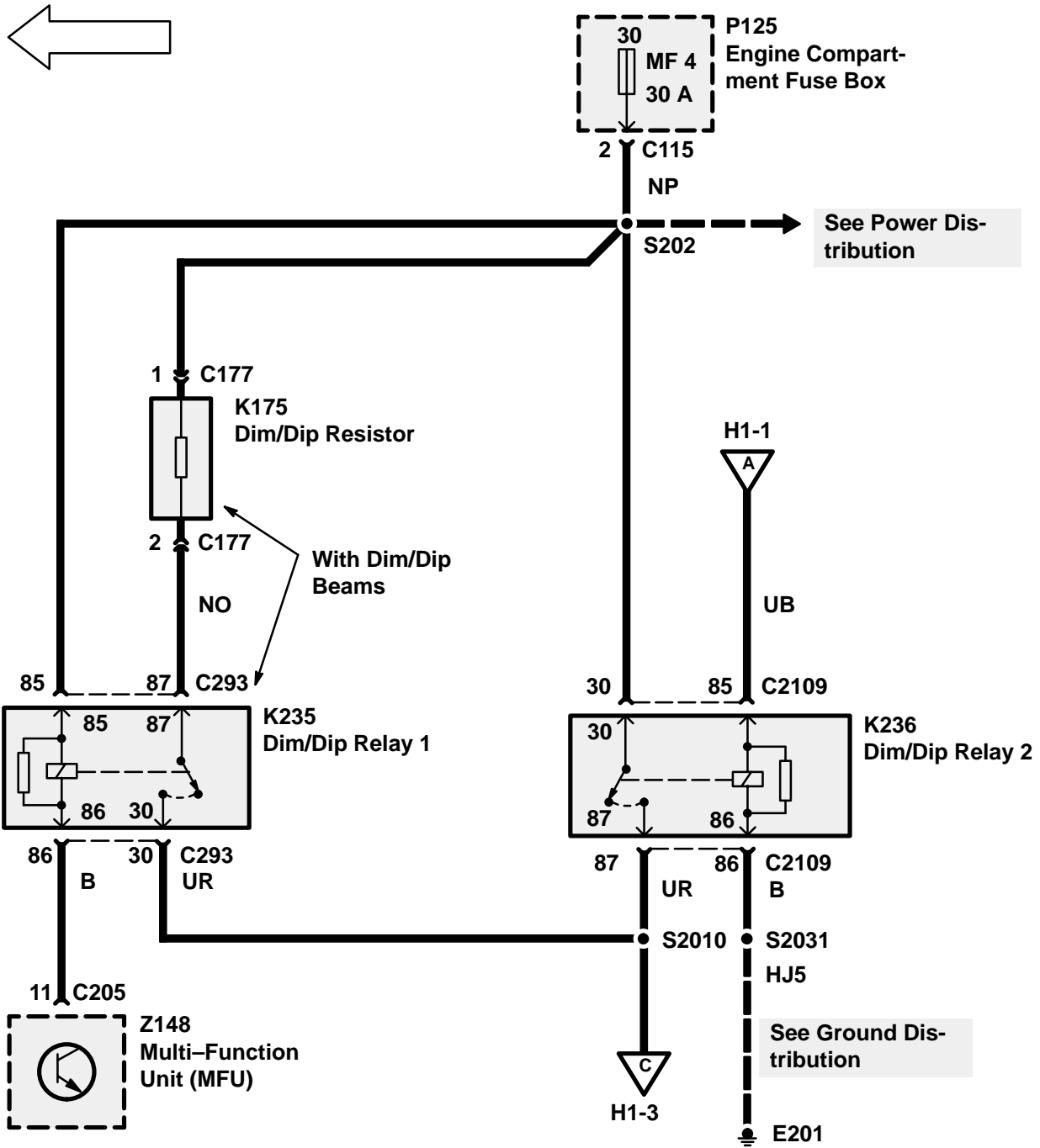


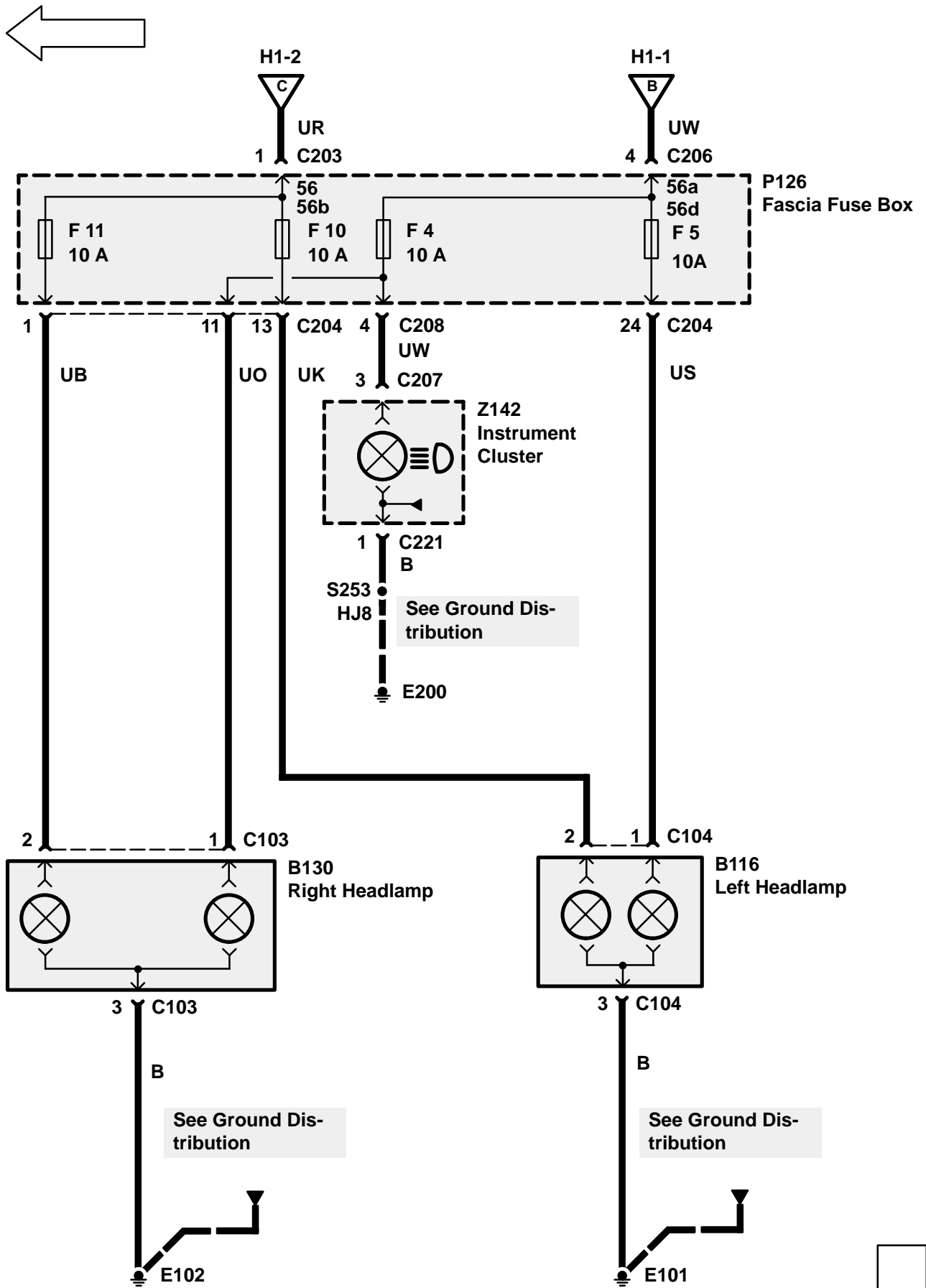


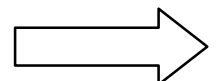
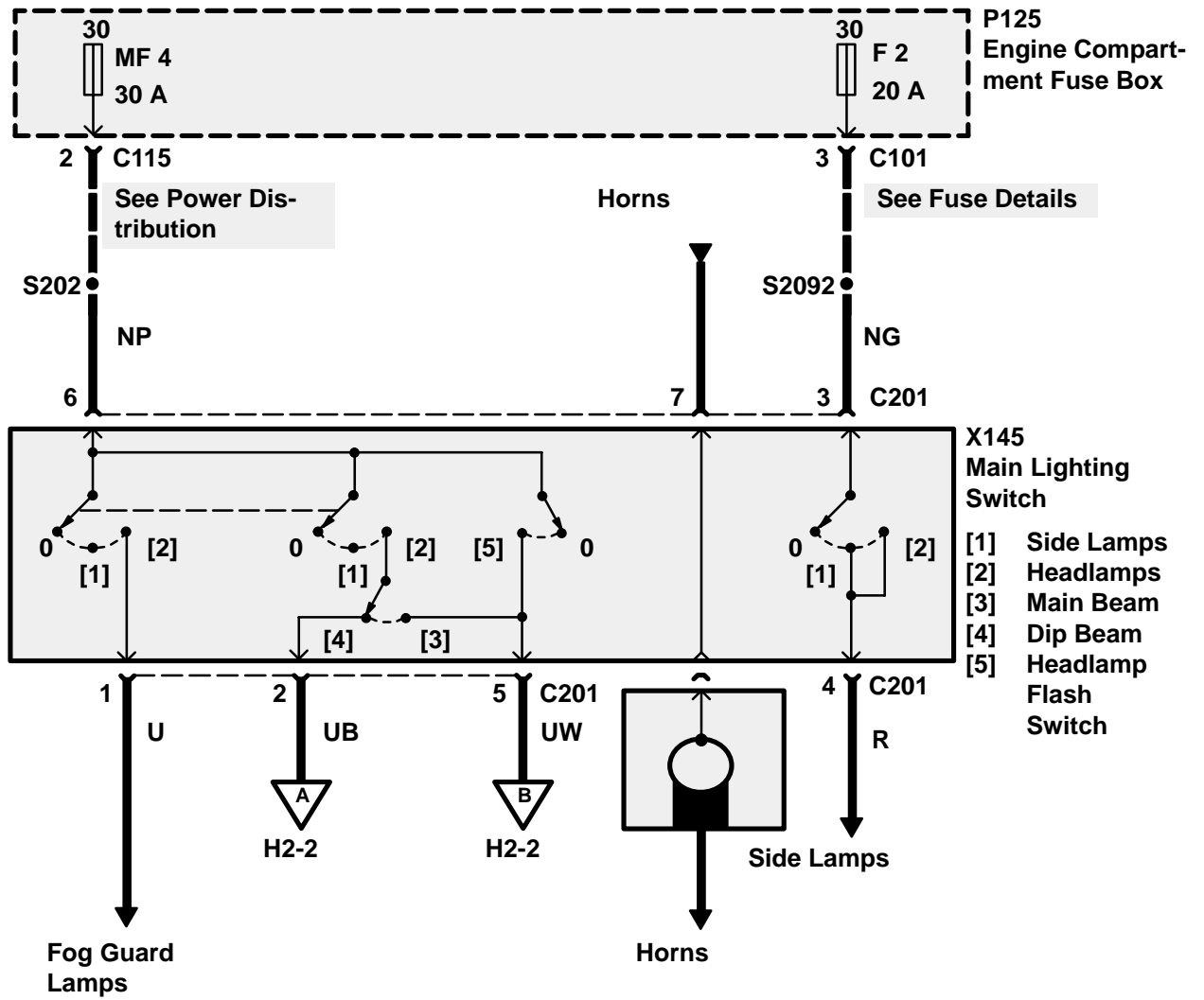


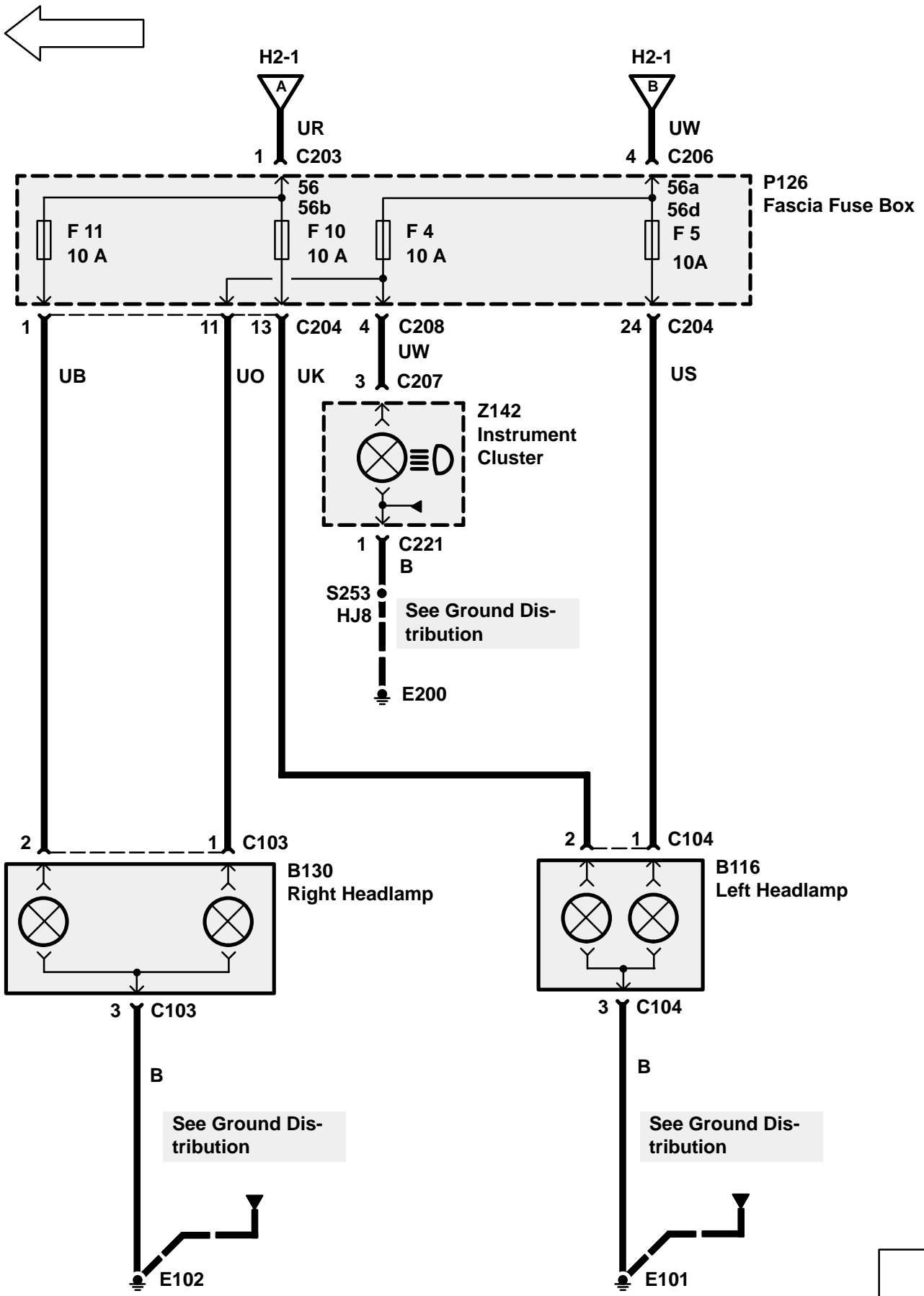


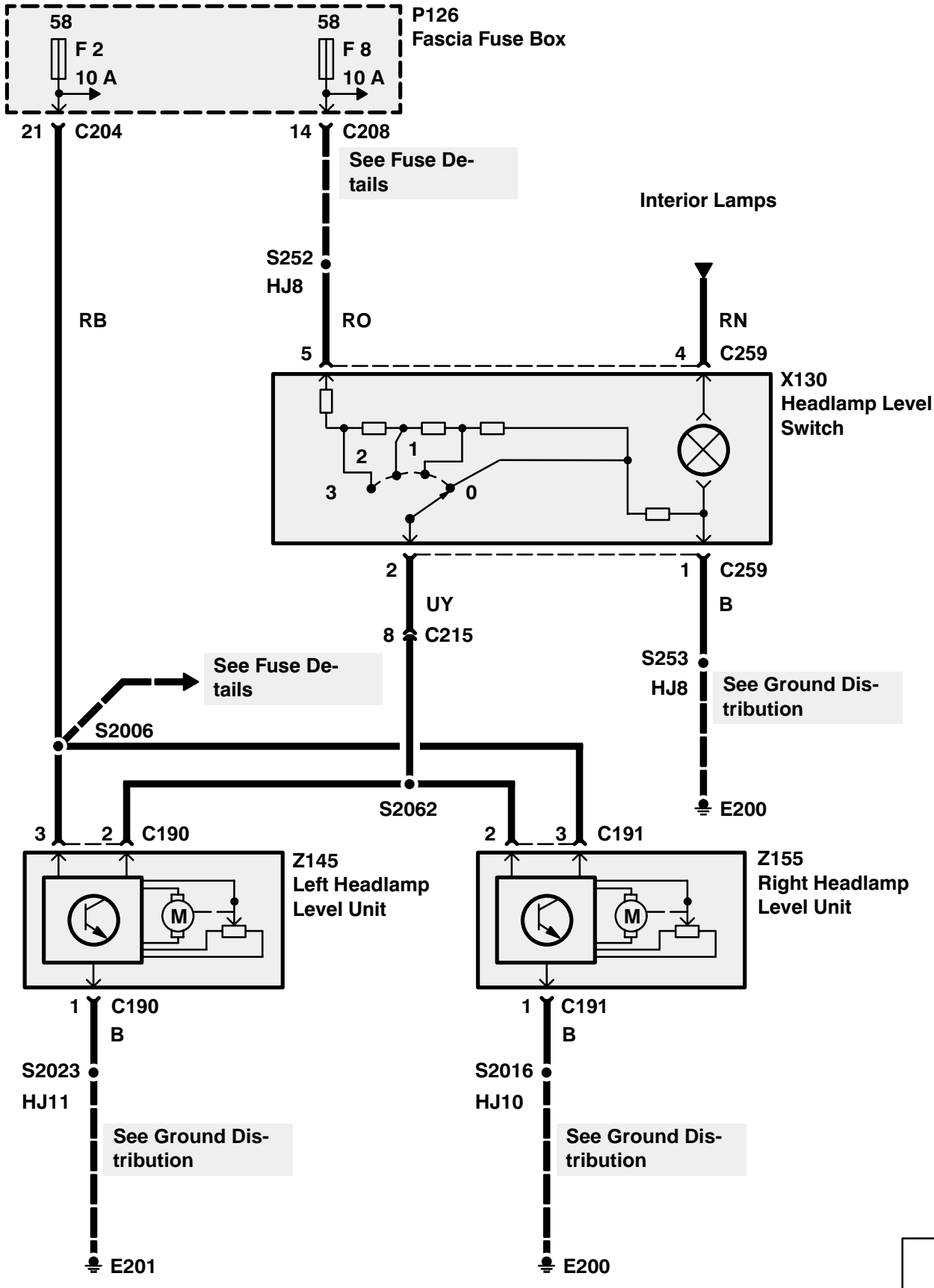


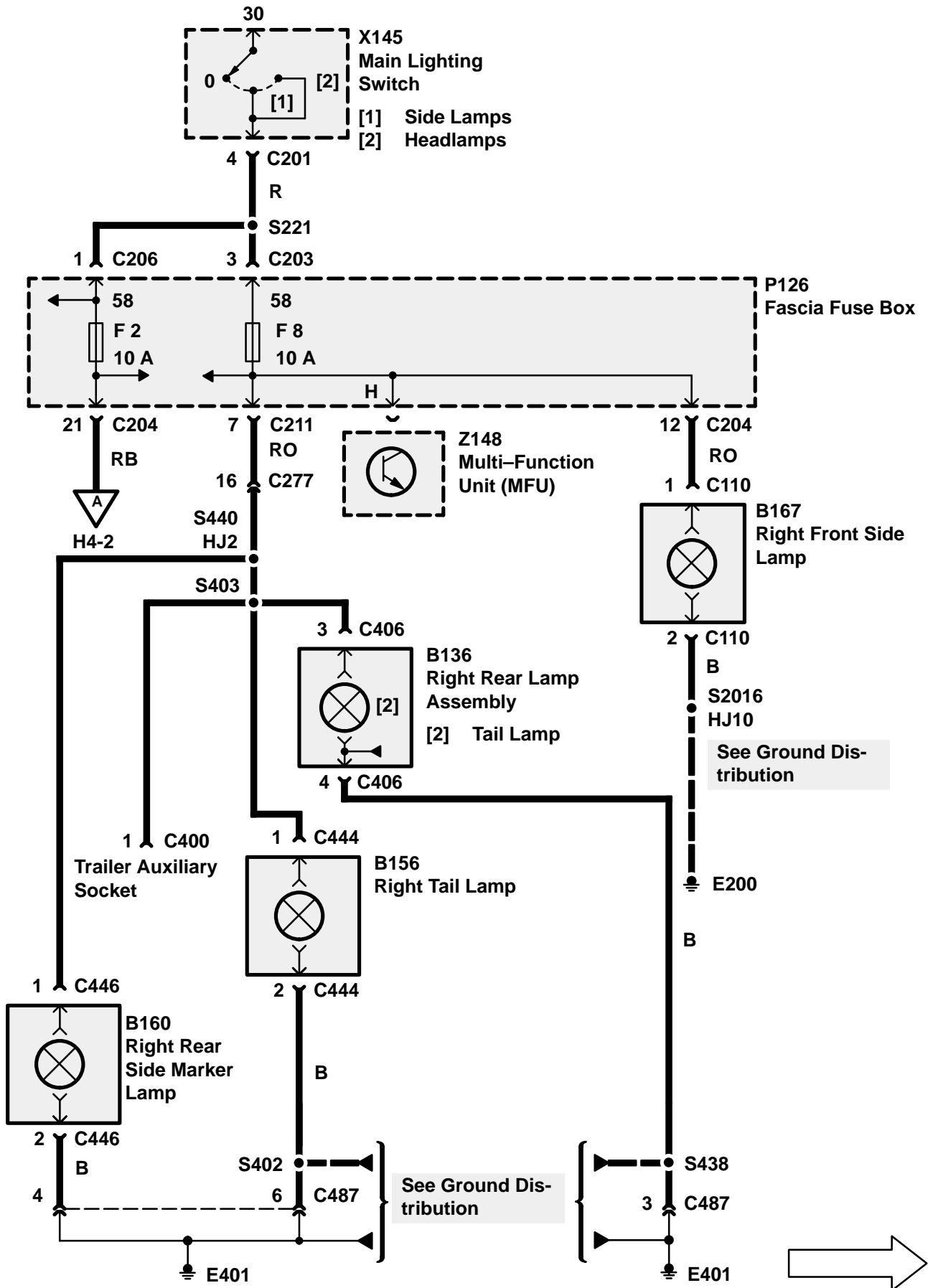


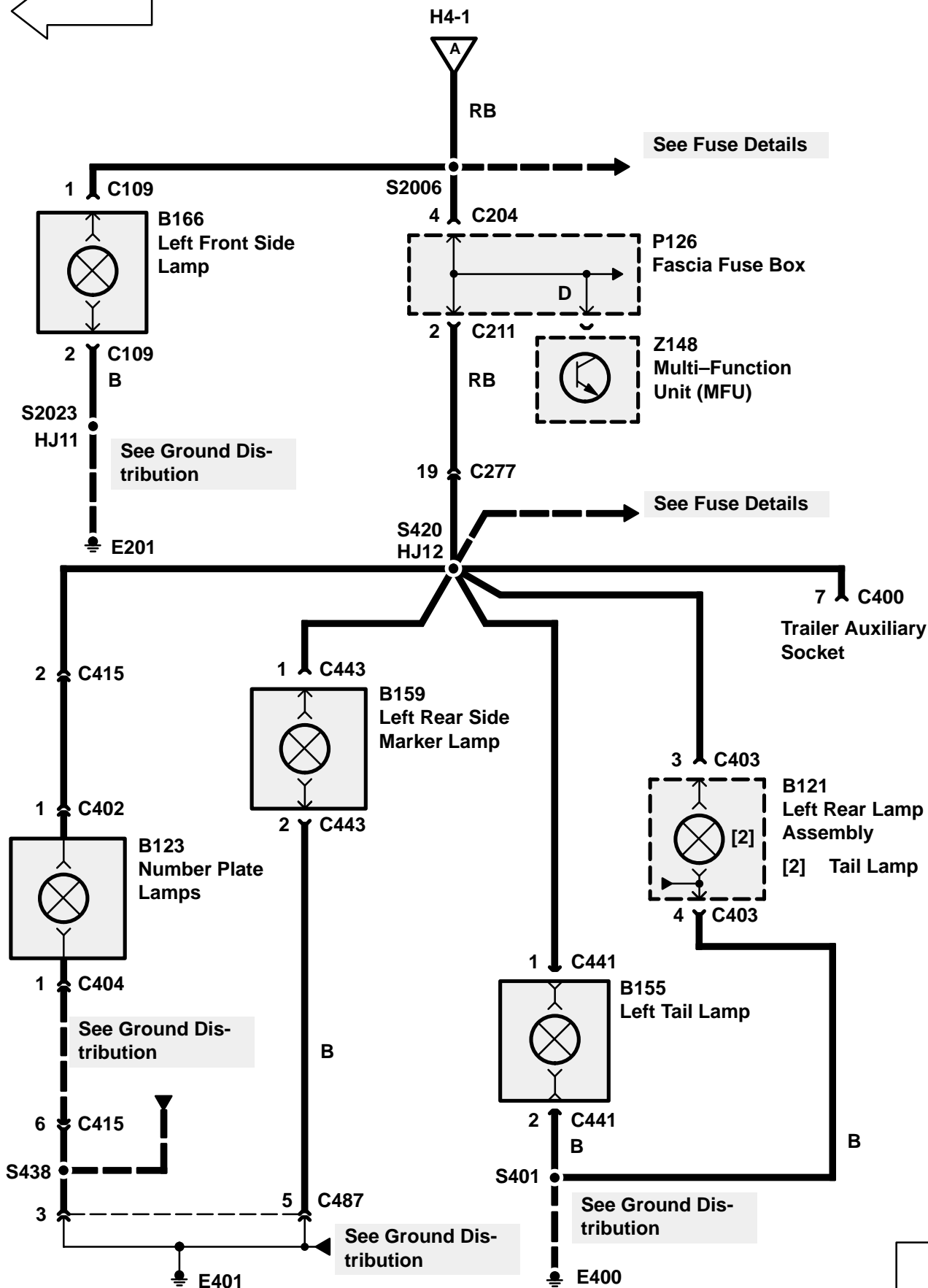
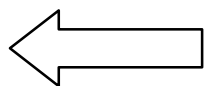




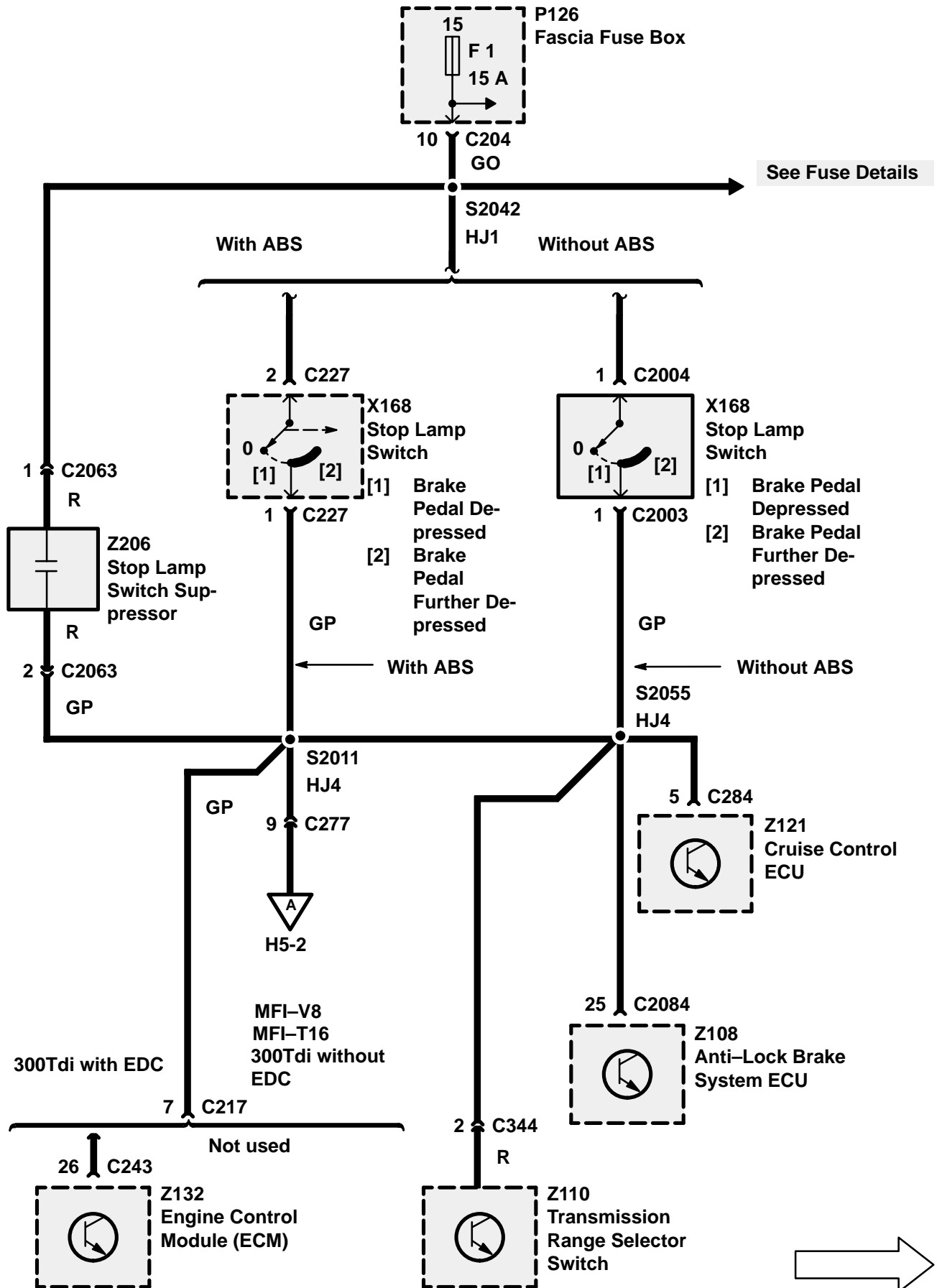


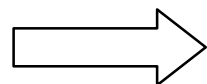
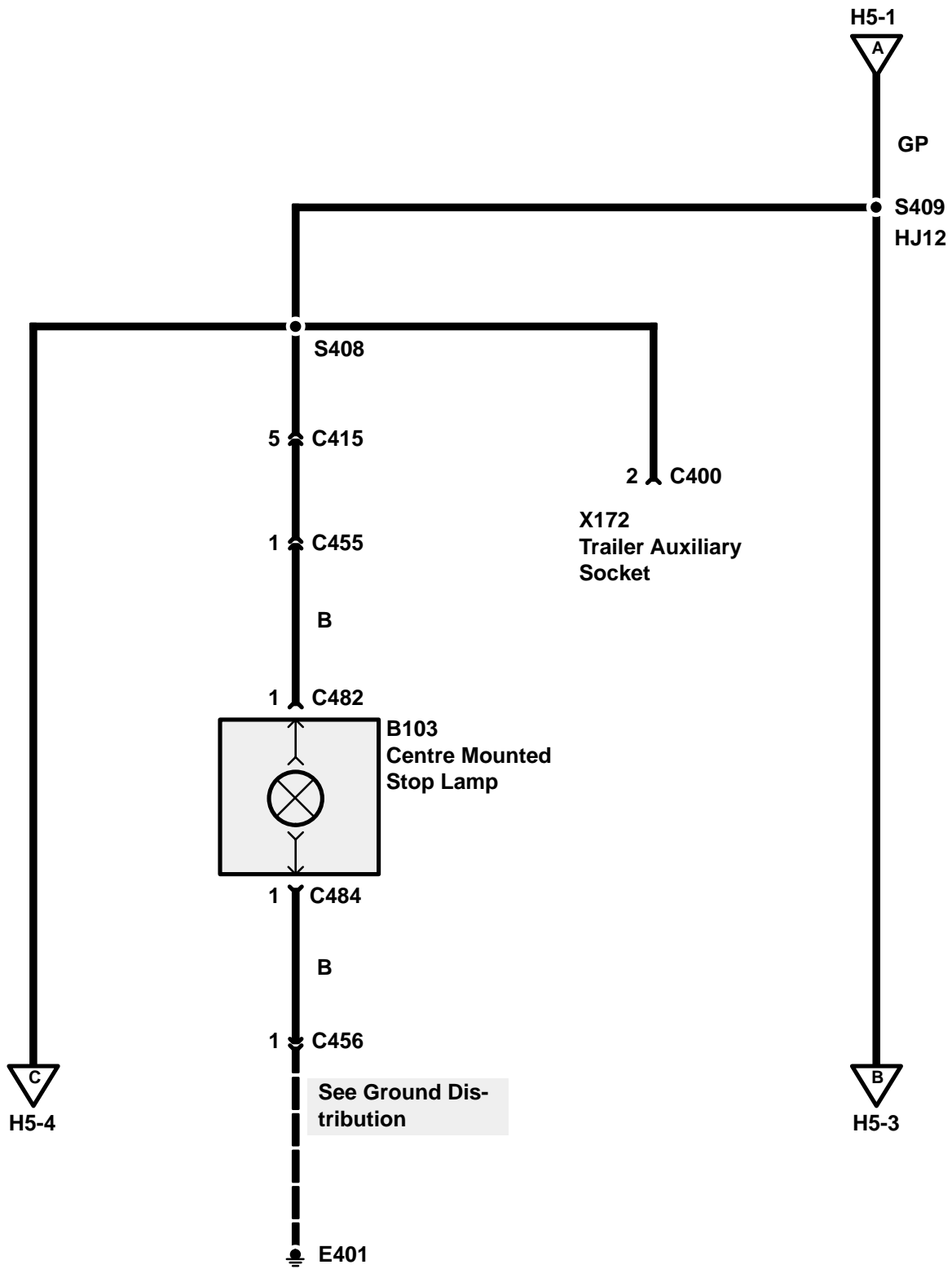
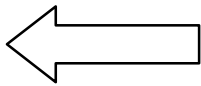


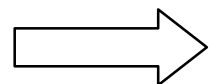
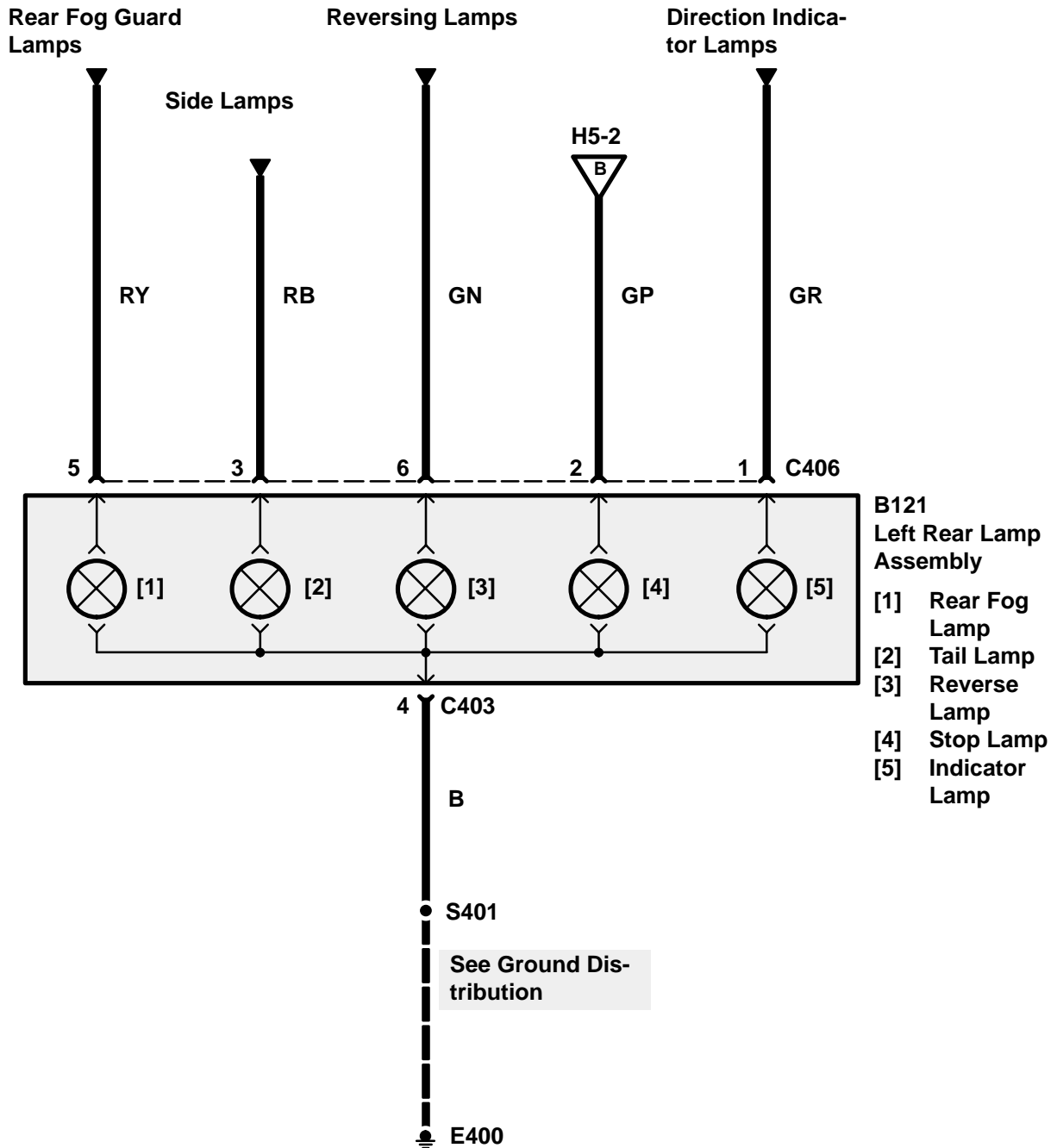
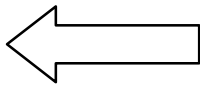


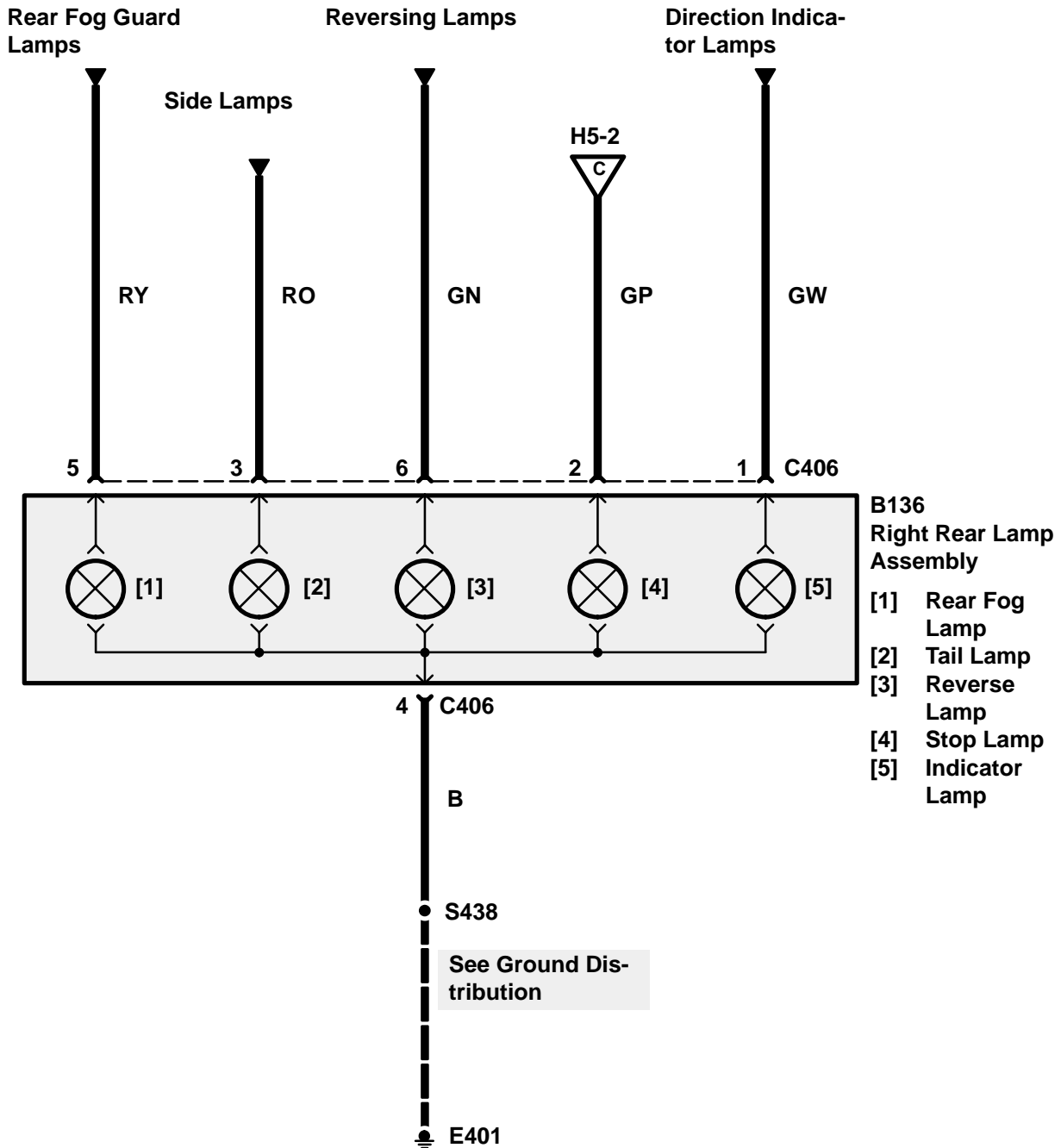
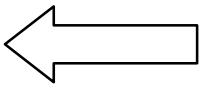


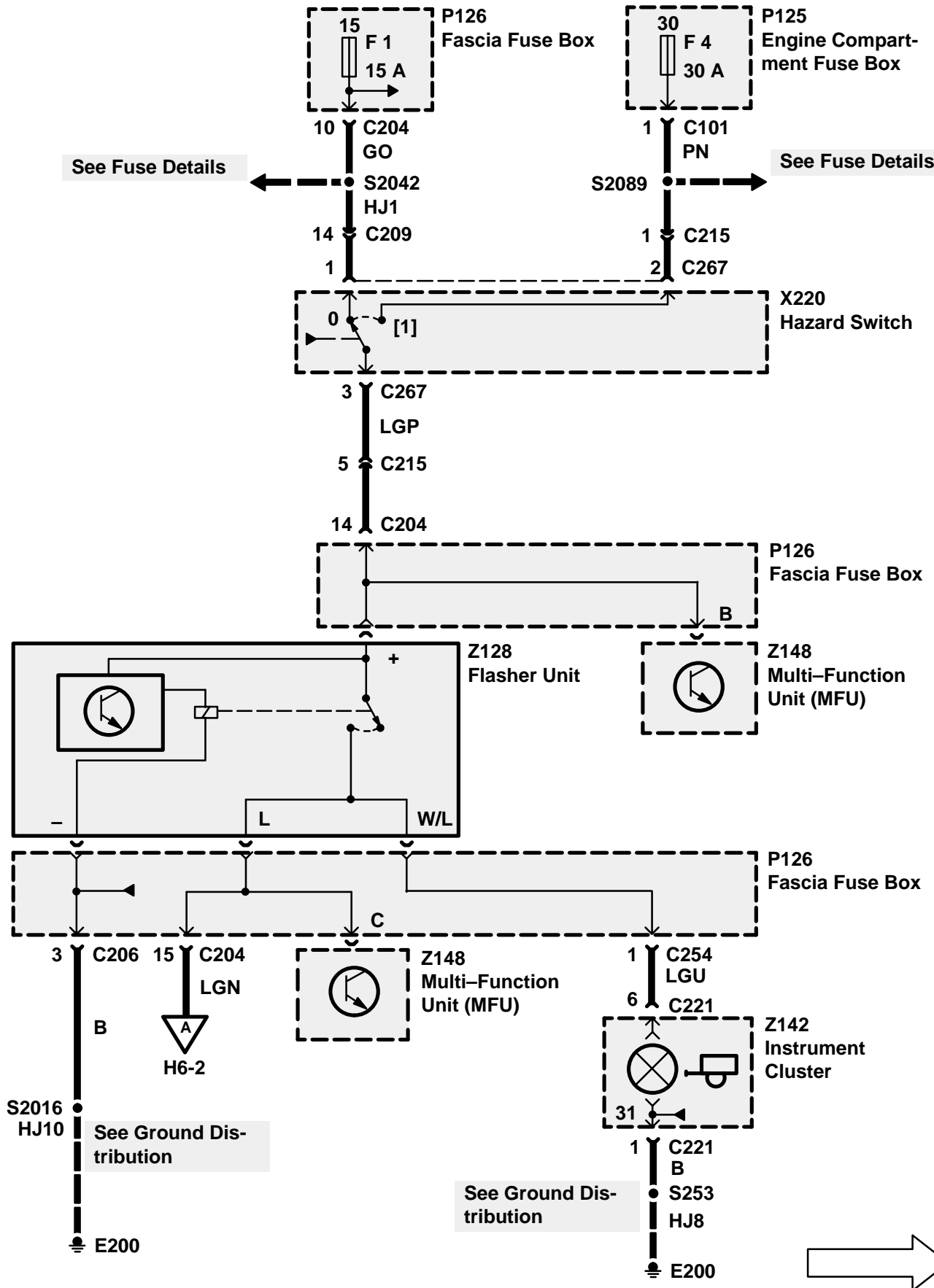


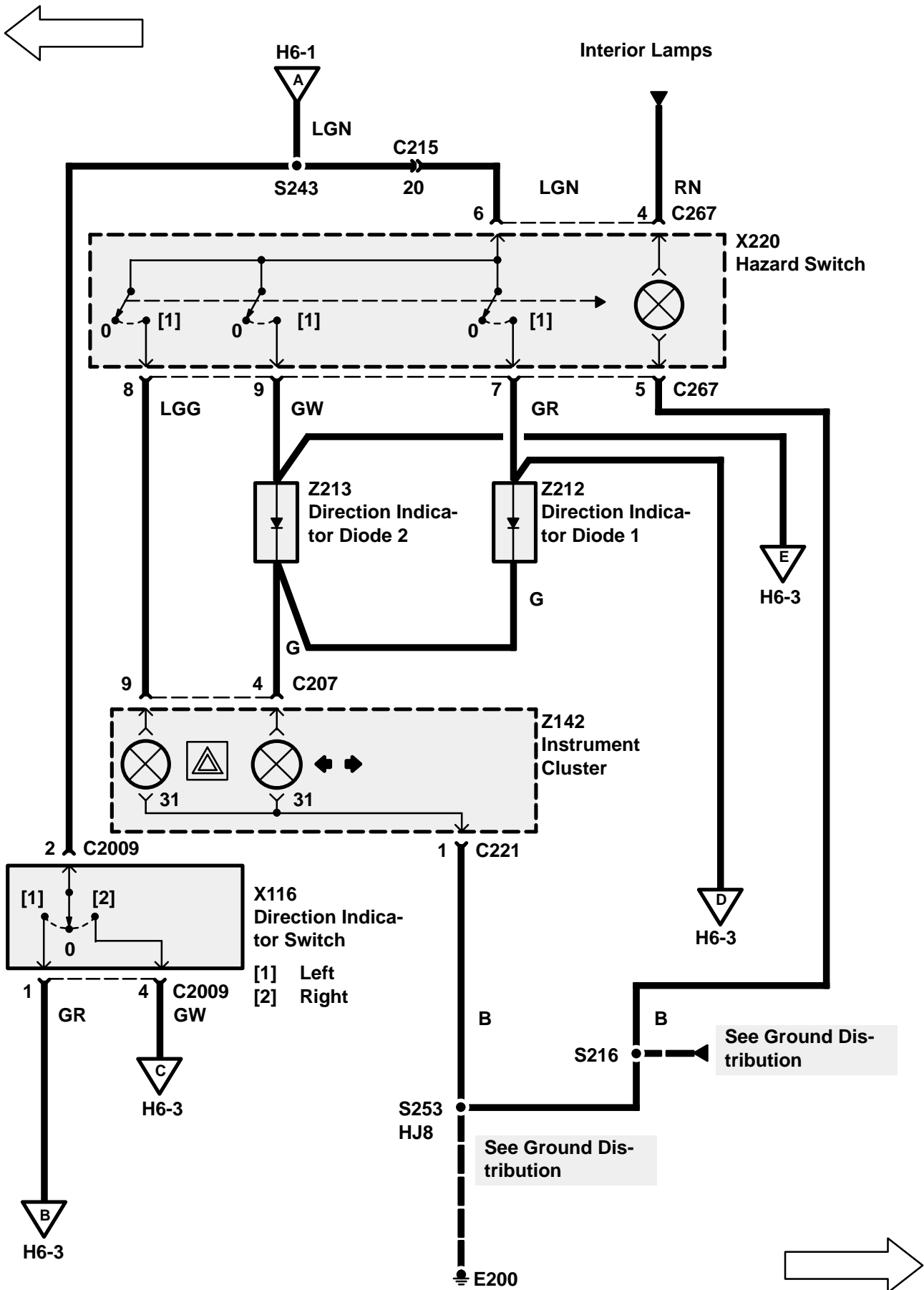


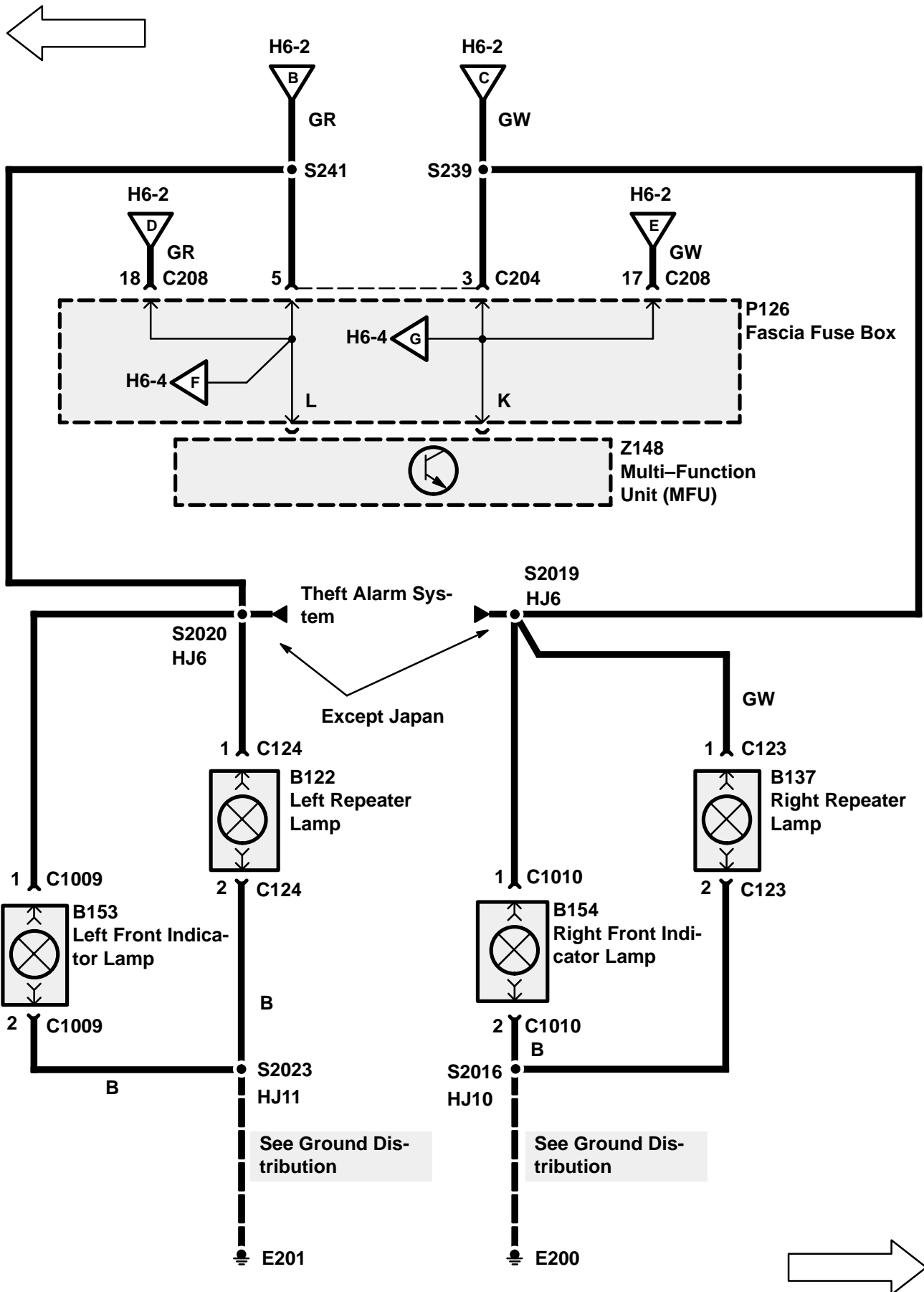


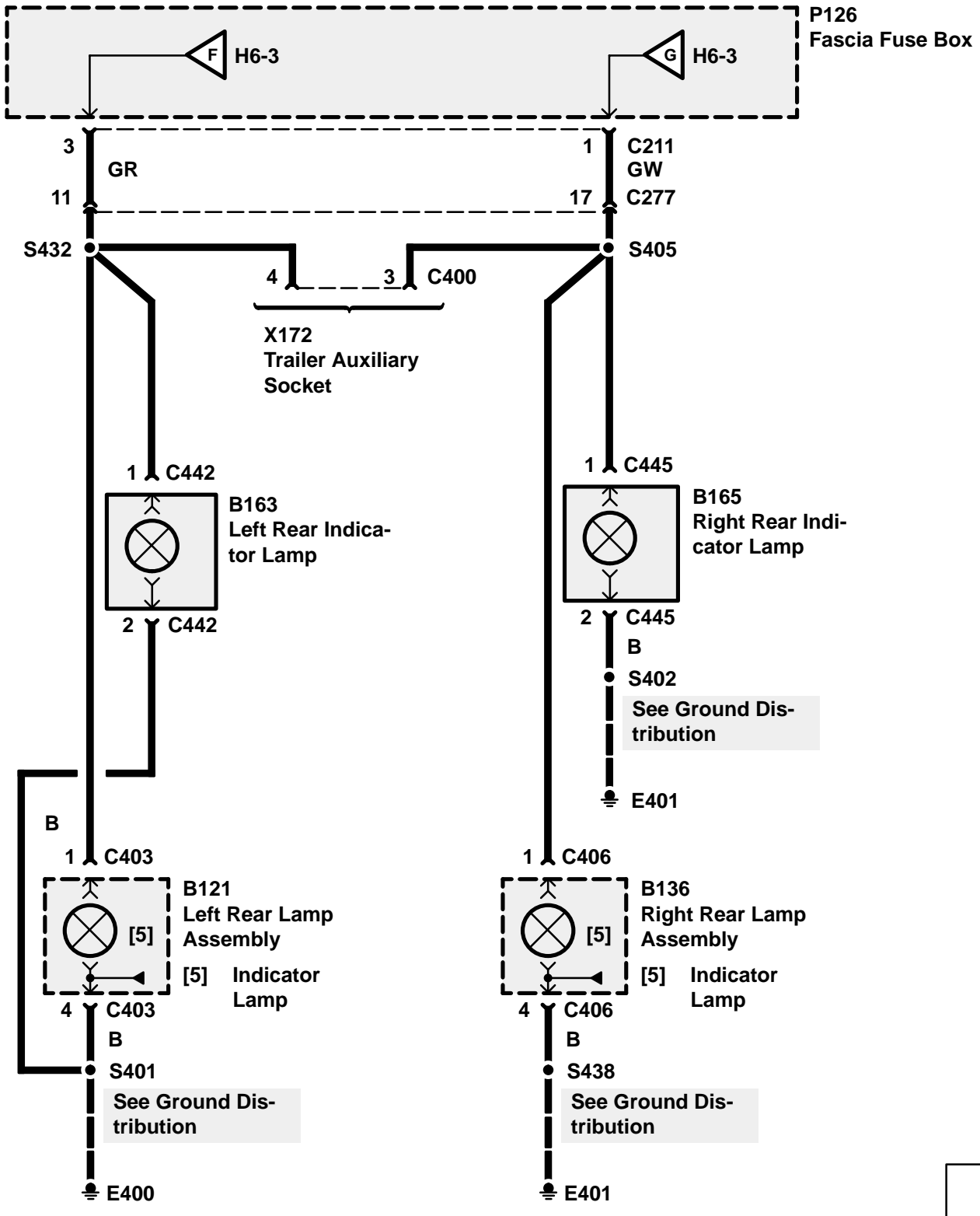
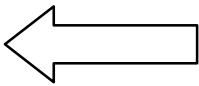




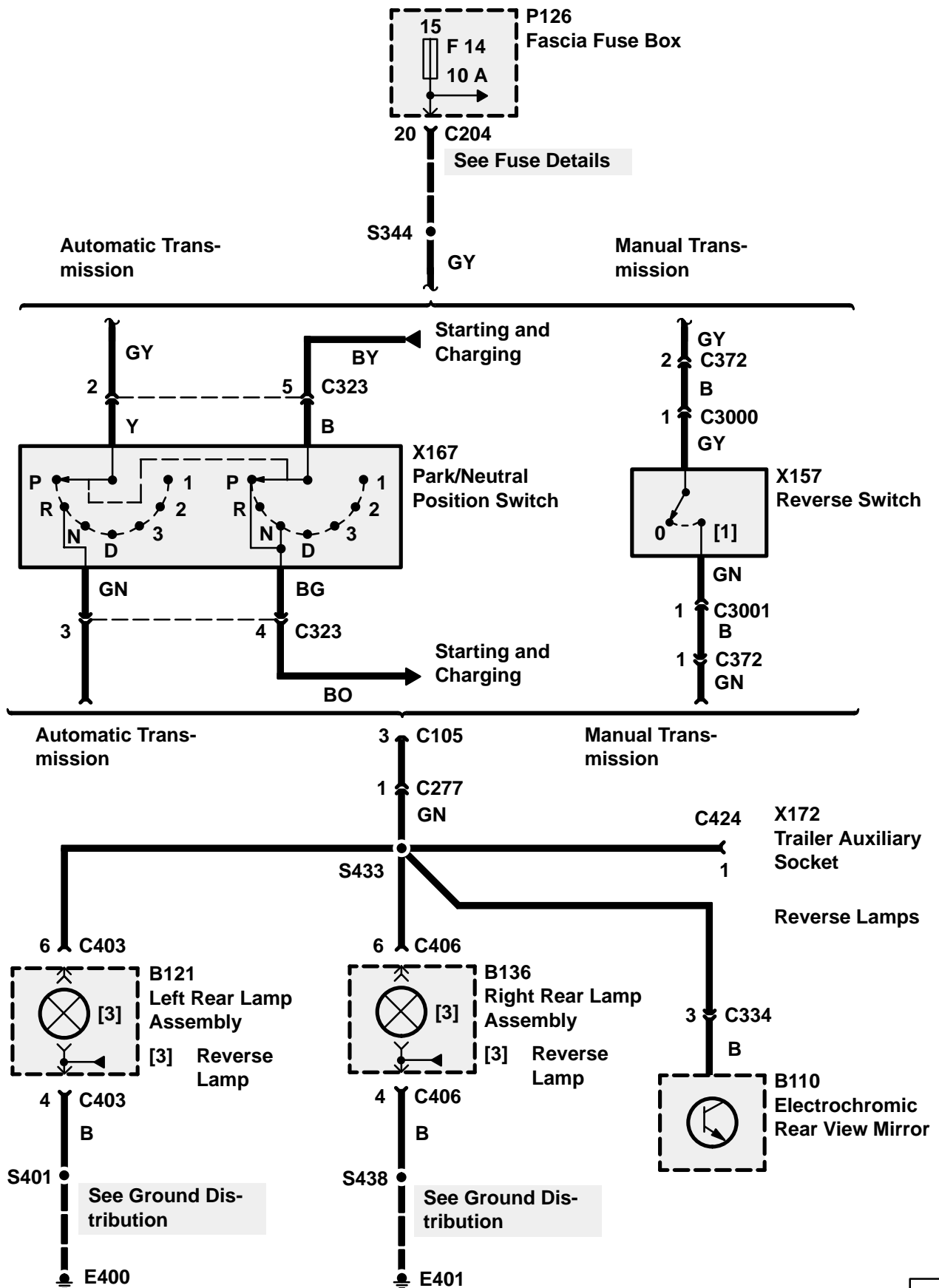


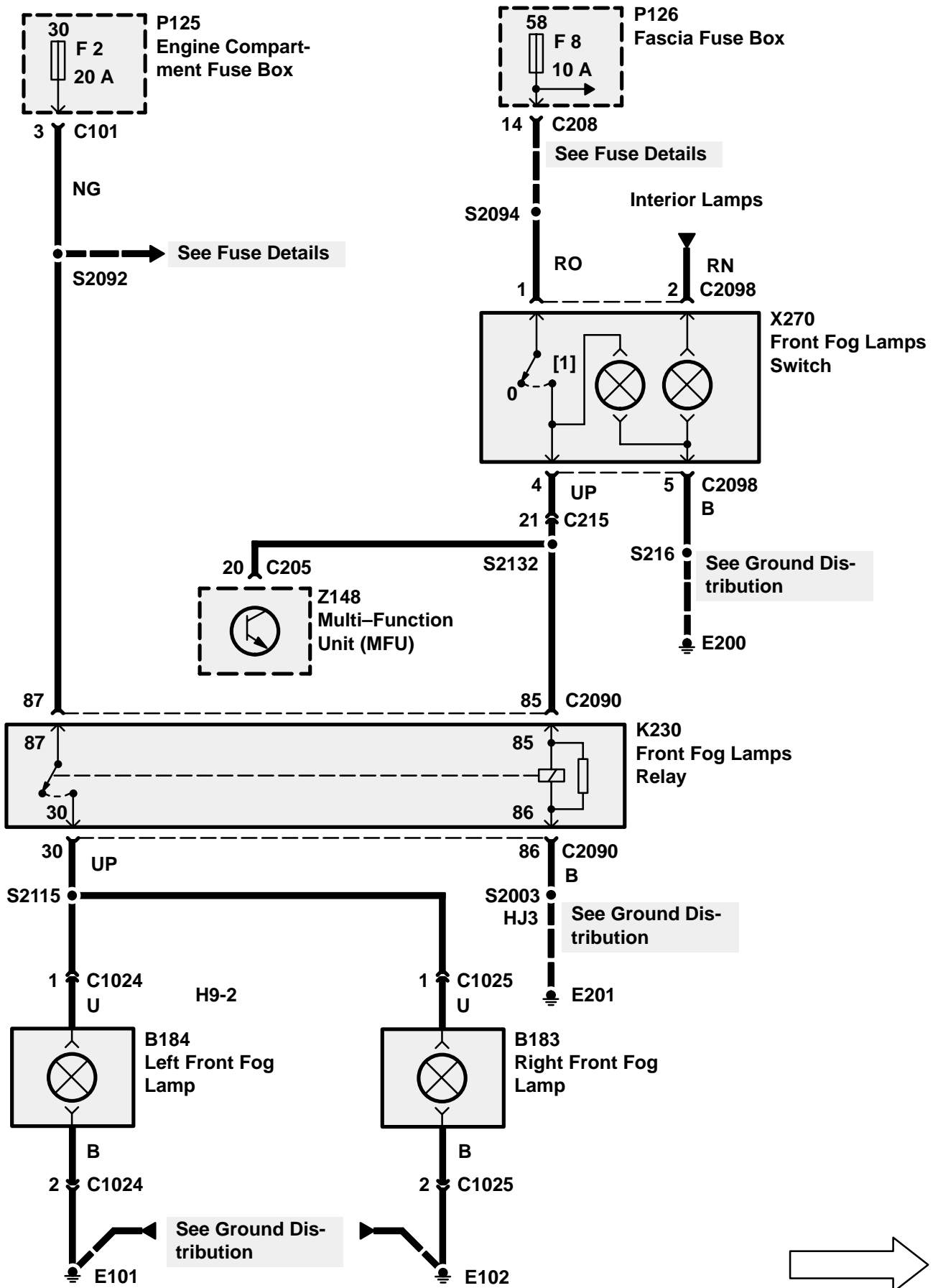


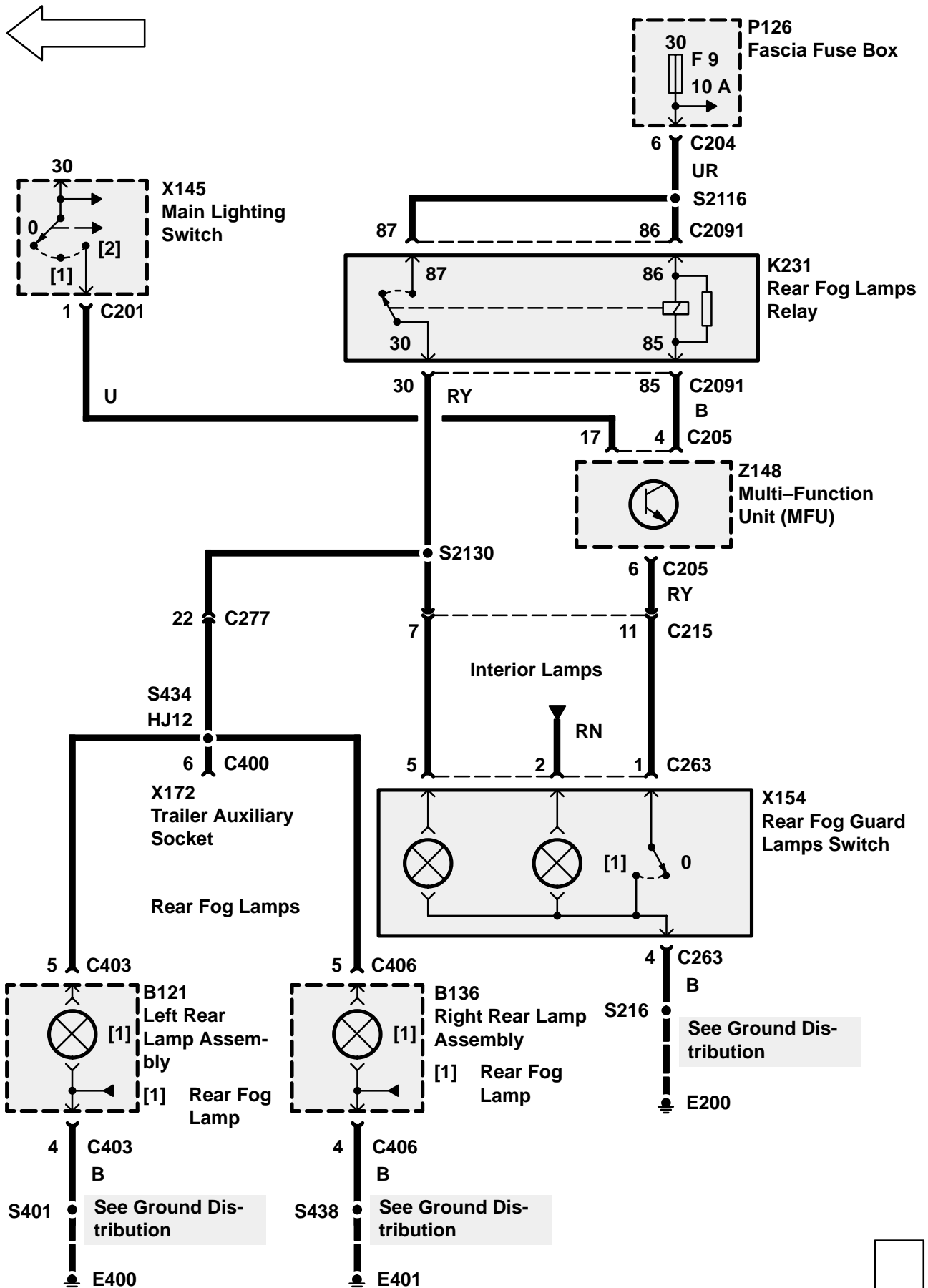


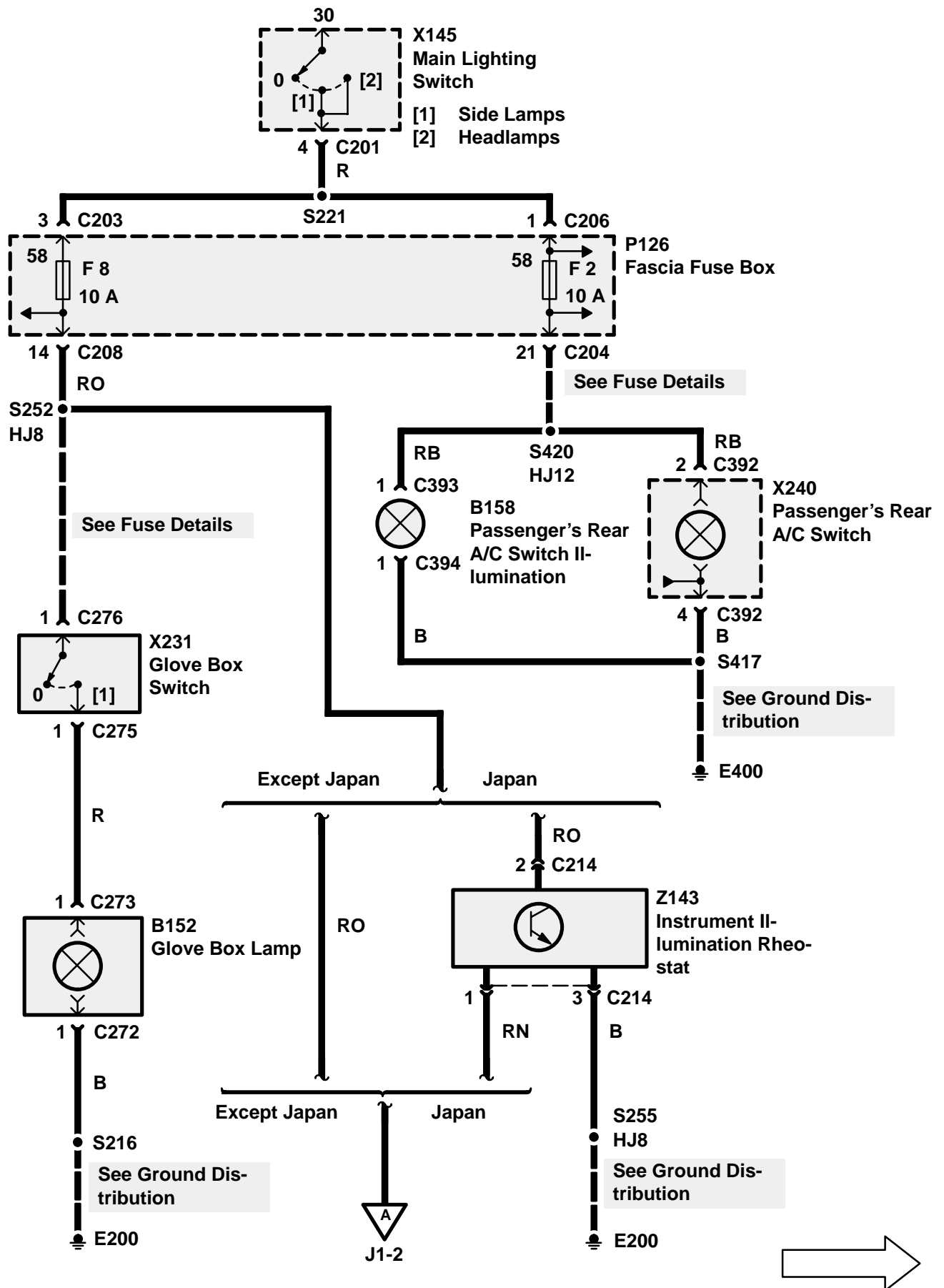


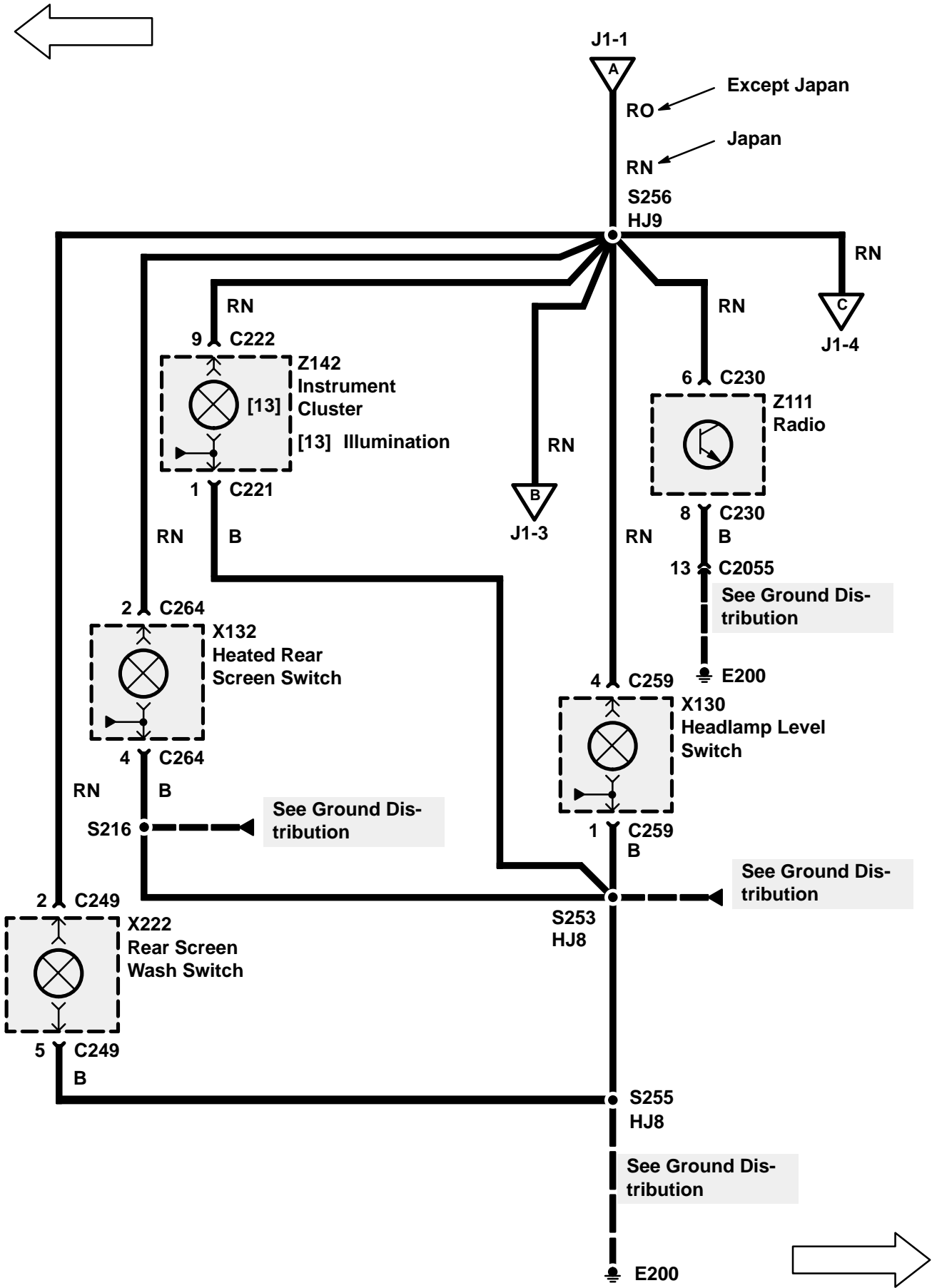


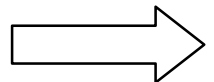
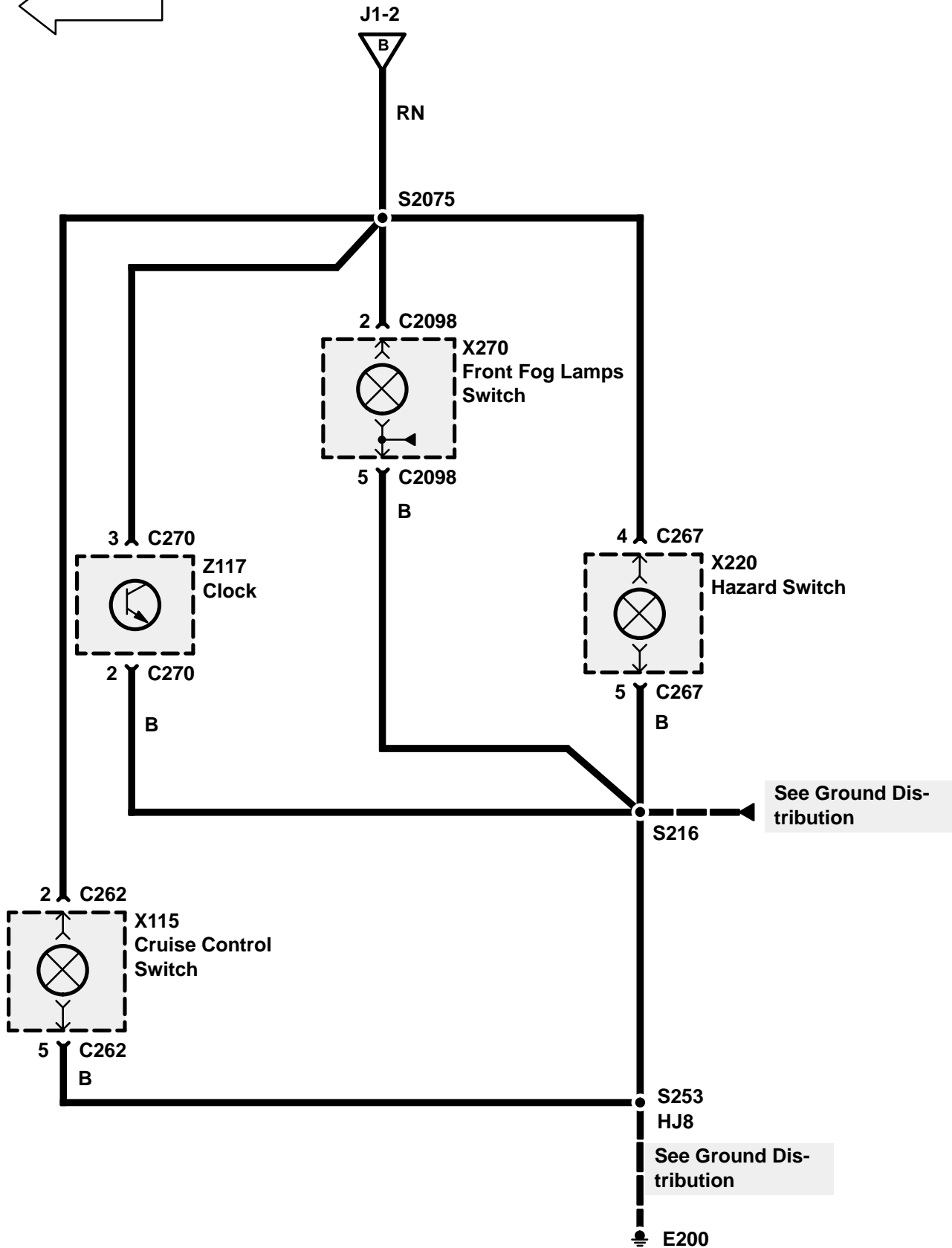
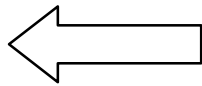


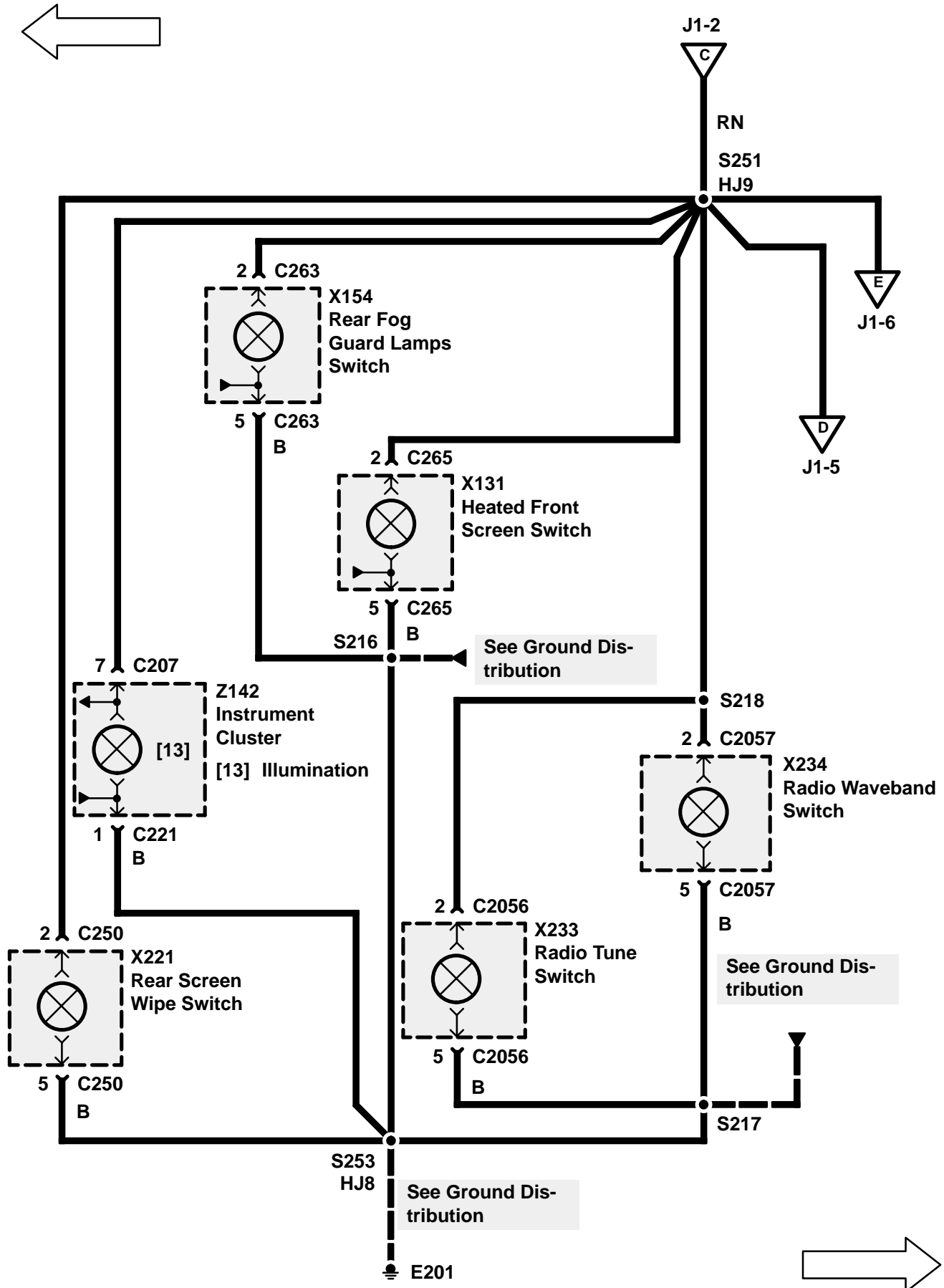


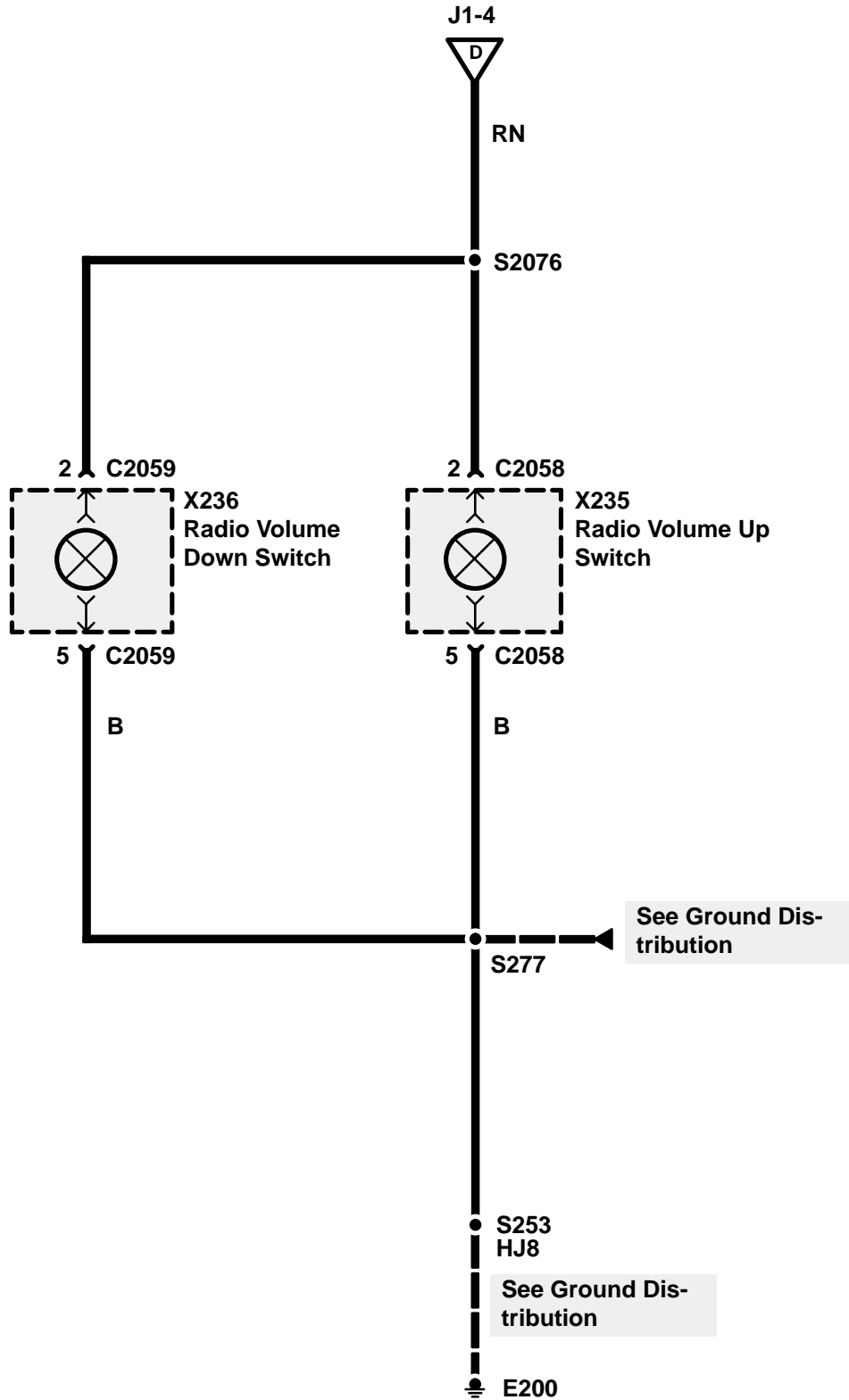
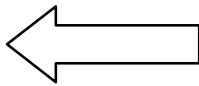






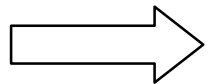




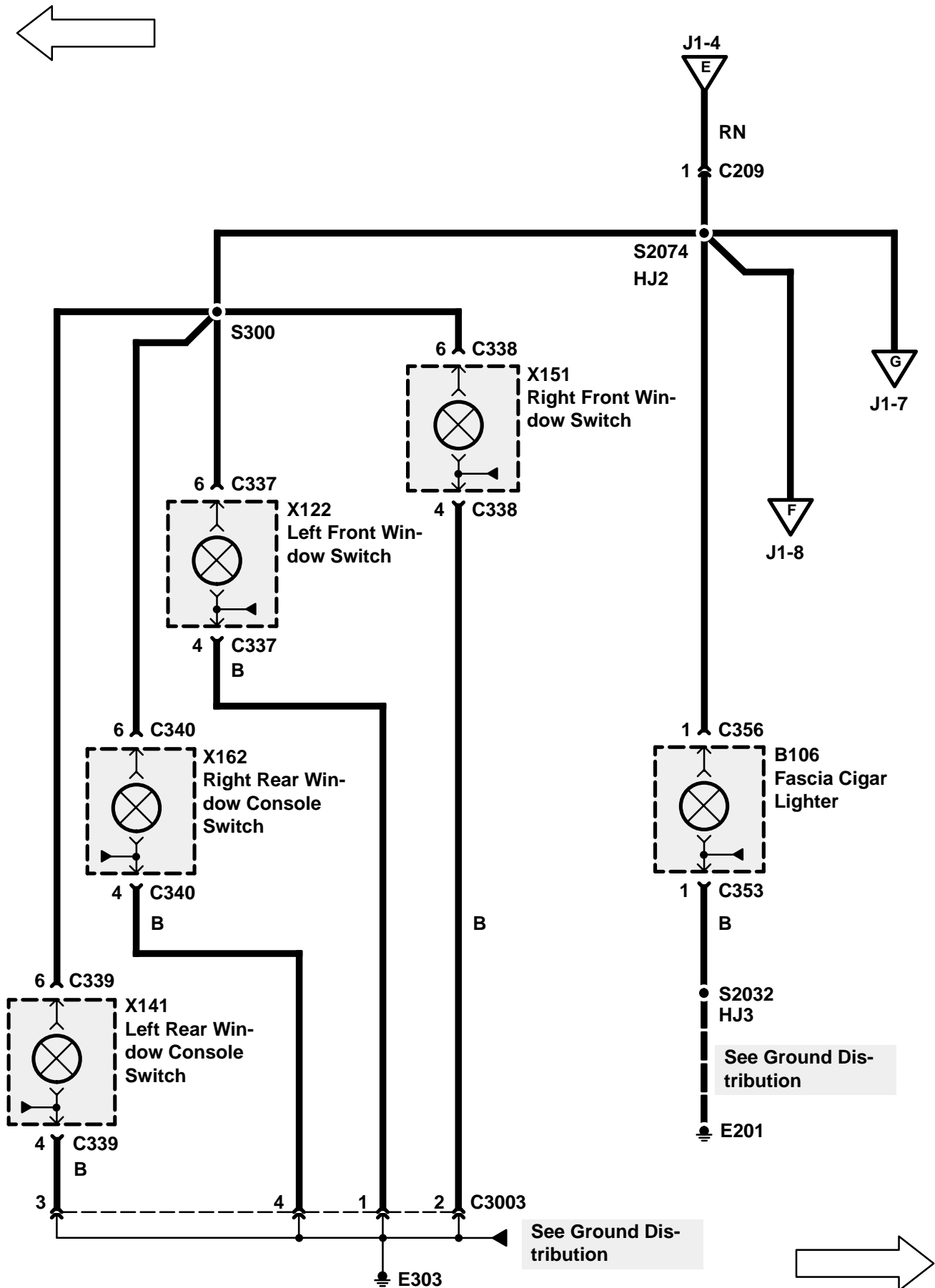


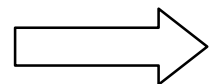
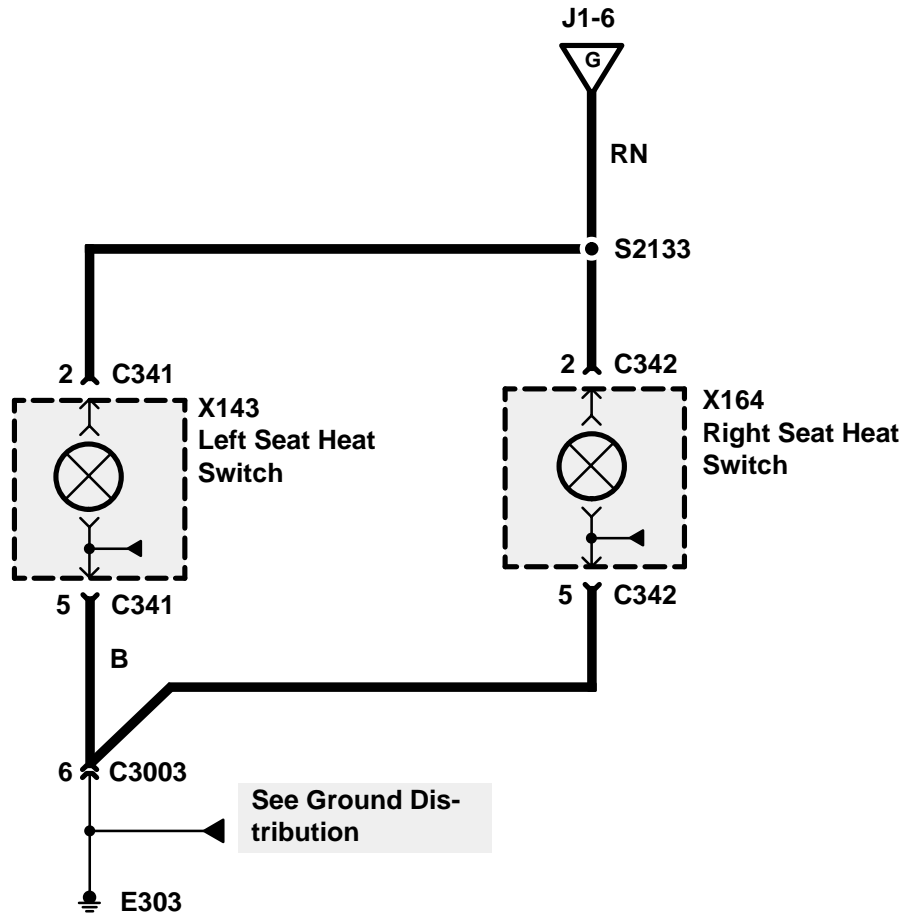
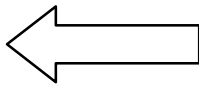
See Ground Dis-  
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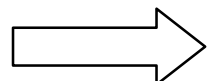
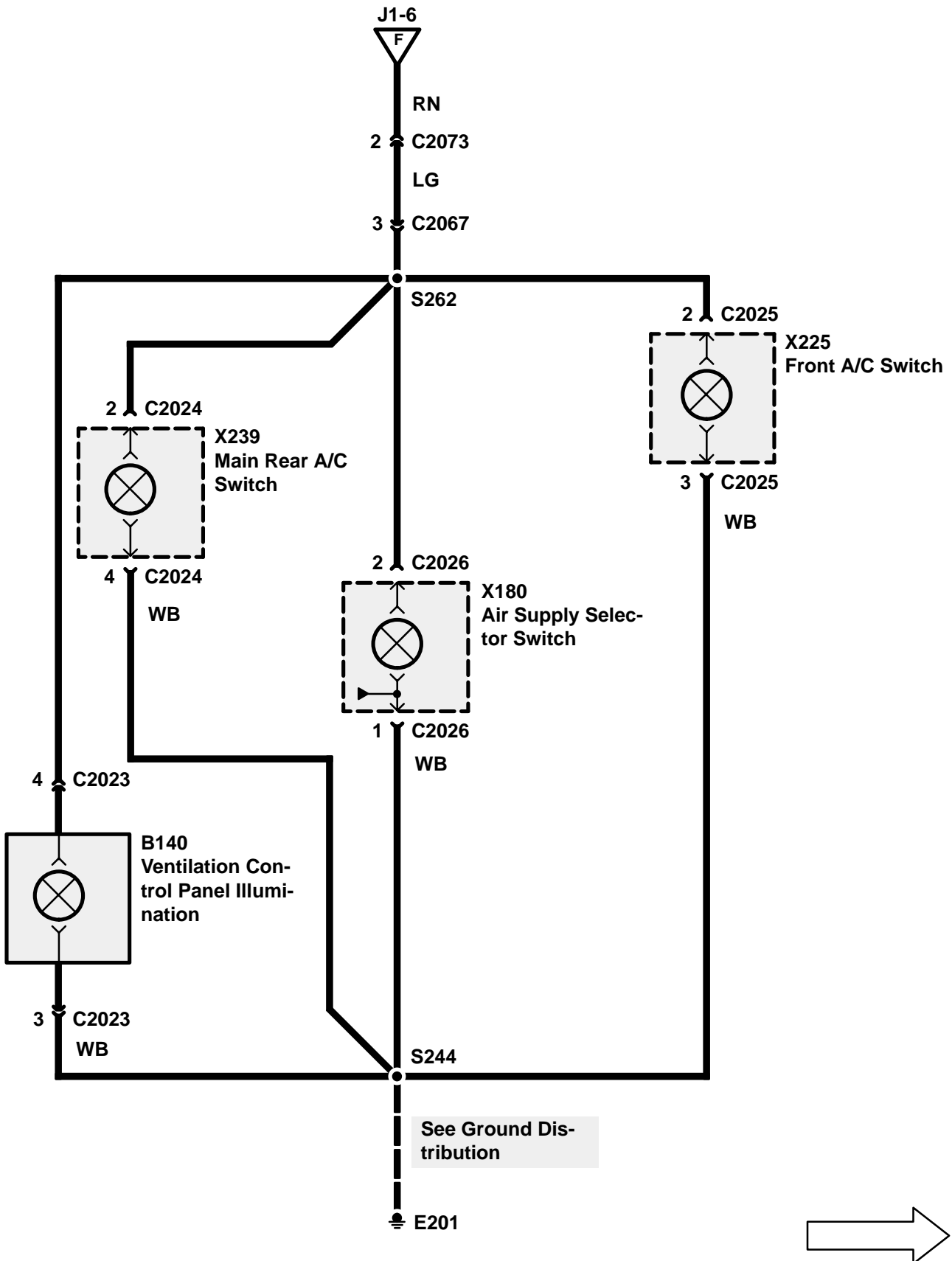
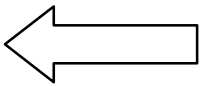
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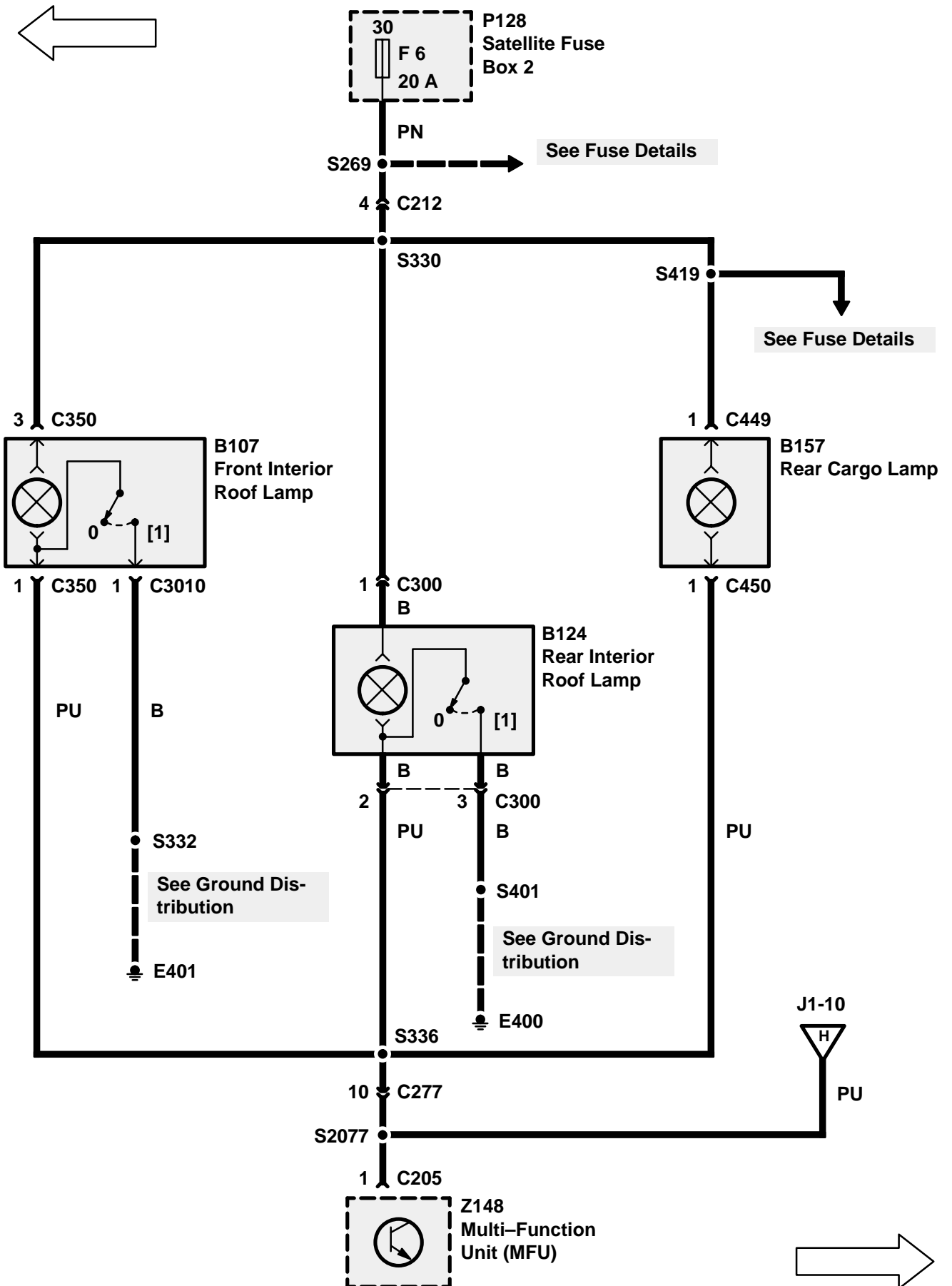


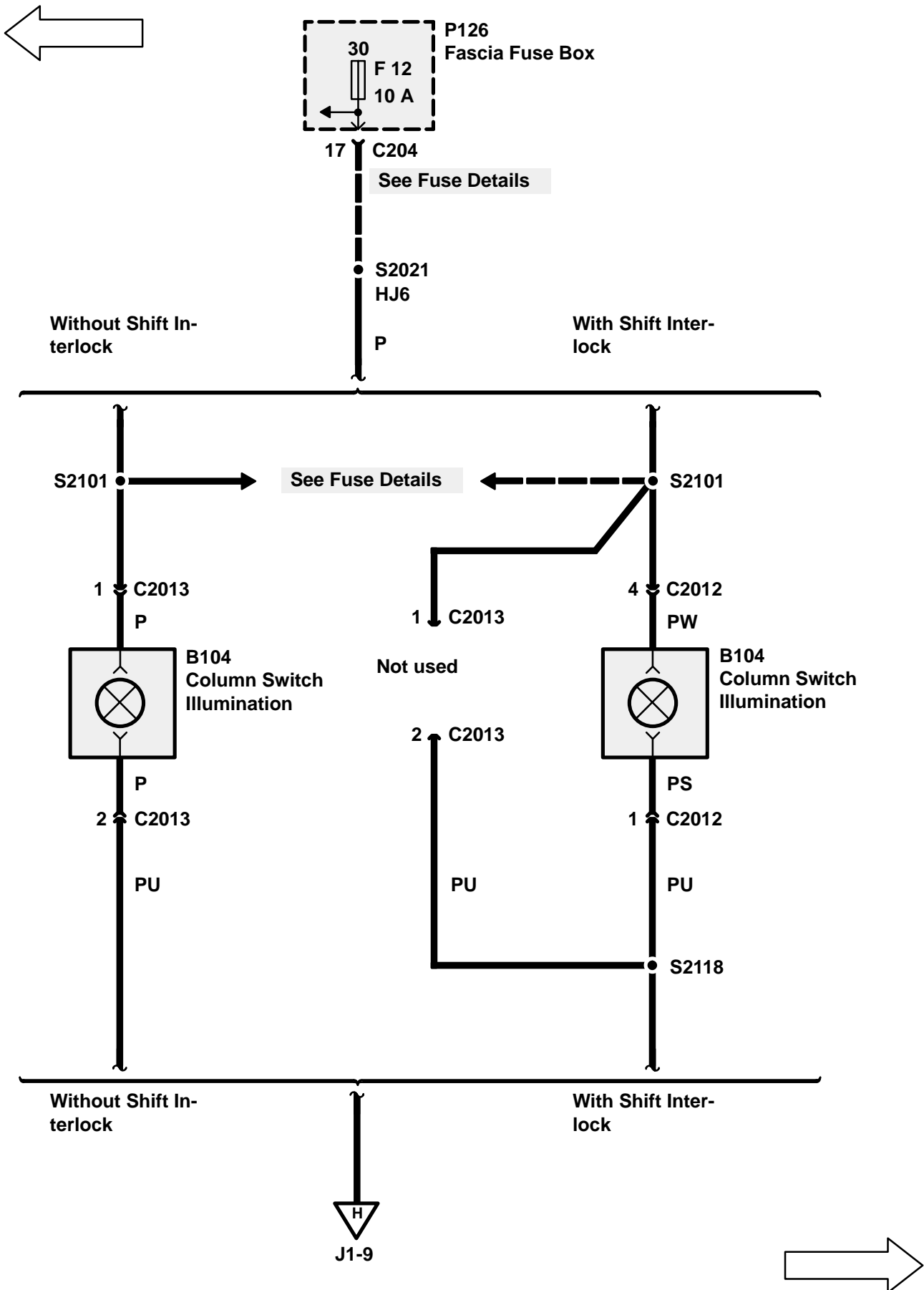


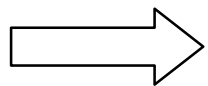
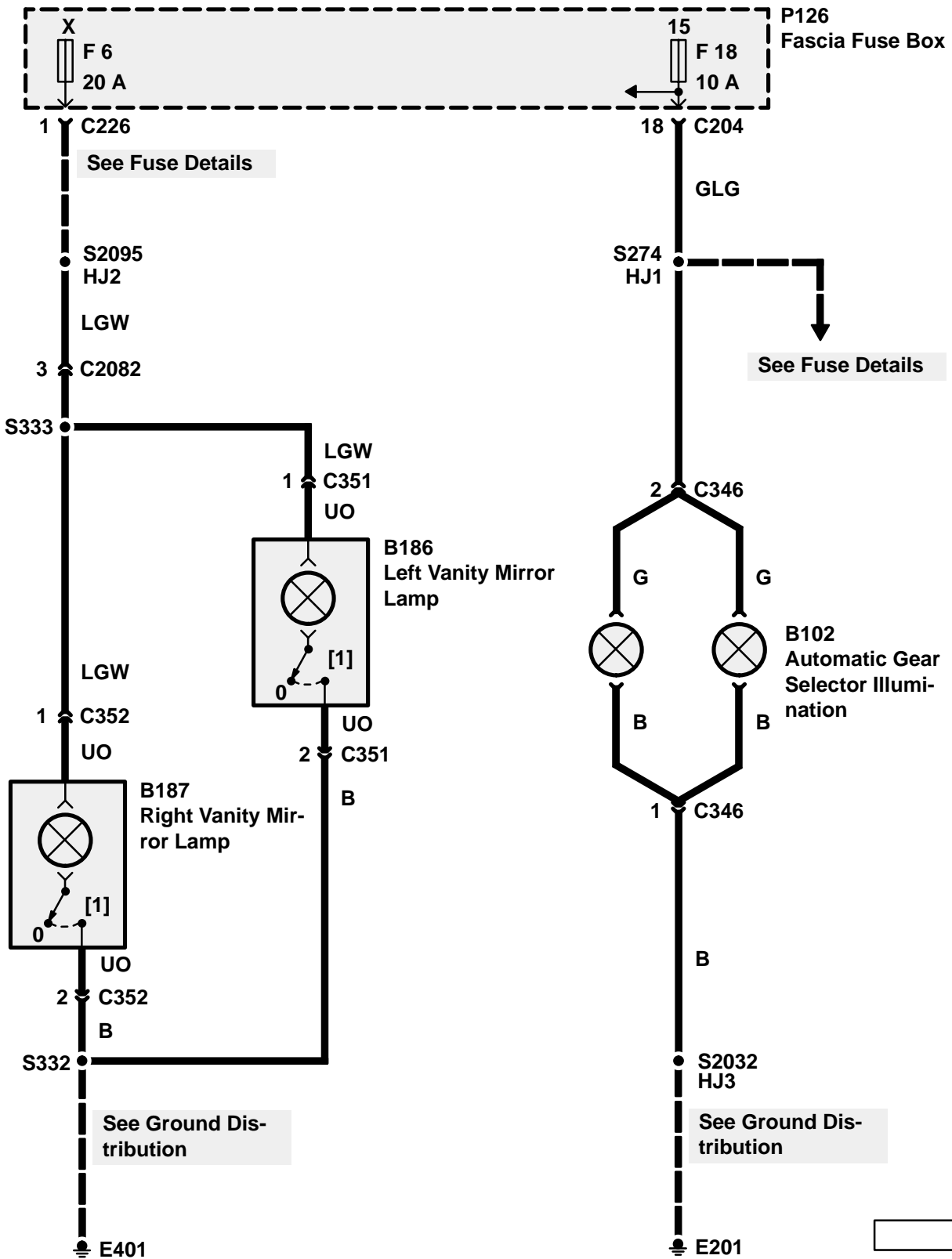
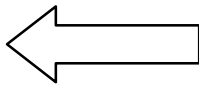


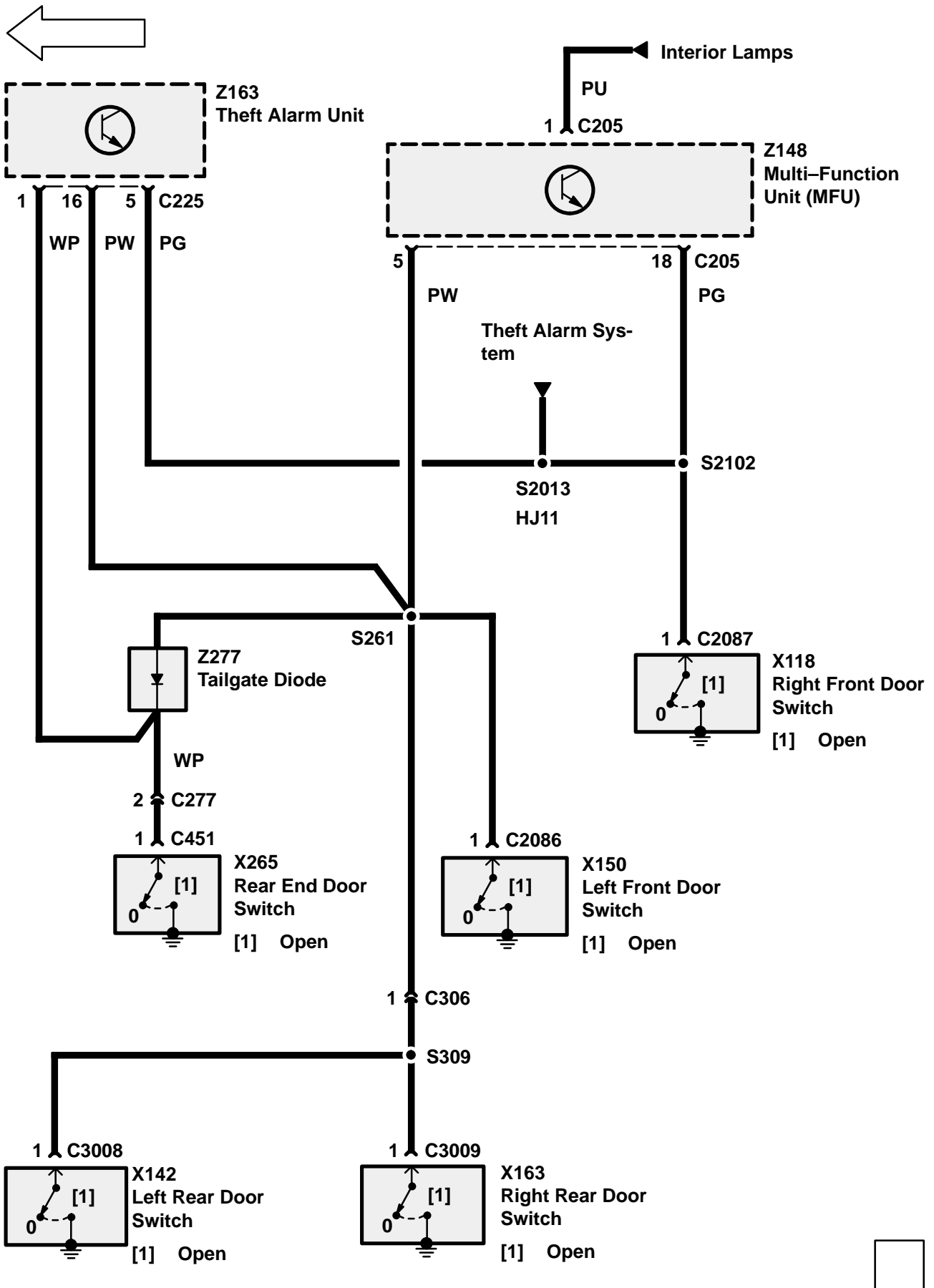


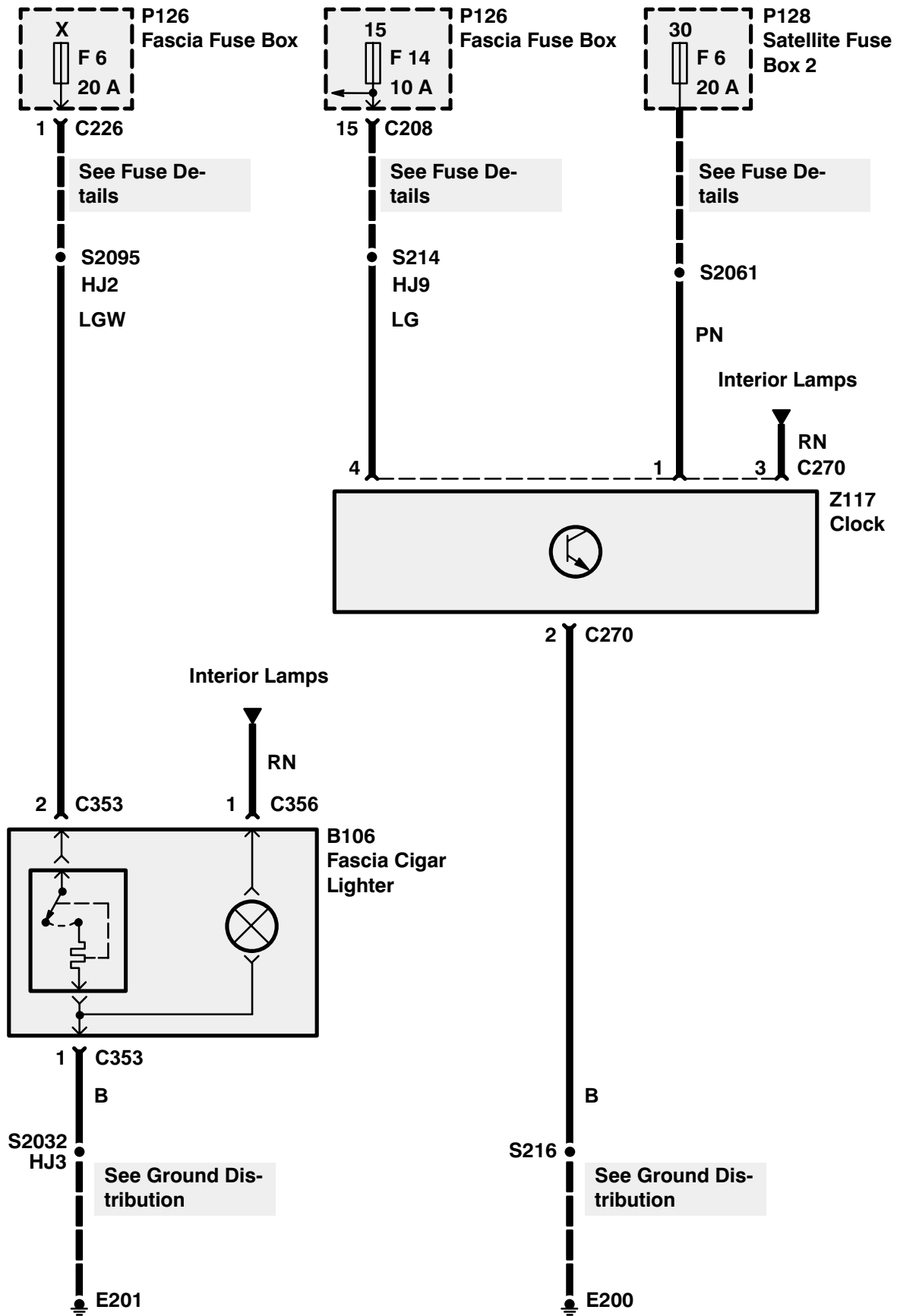














## CIRCUIT OPERATION

### Front Blower

With the Ignition Switch (X134) in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Front Blower Motor Relay (K192).

When the Front Fan Speed Switch (X247) is turned to position I, ground is applied to terminal 85 of the Front Blower Motor Relay (K192). The relay is energised, applying battery voltage to terminal 2 of the Front Blower Motor (M101). Ground is applied to the Front Blower Motor (M101) through all three resistors of the Front Blower Resistor Unit (Z214). The Front Blower Motor (M101) then runs at low speed. When the Front Fan Speed Switch (X247) is turned to position II, the Front Blower Motor Relay (K192) remains energised. Battery voltage is still applied to terminal 2 of the Front Blower Motor (M101). Ground is now applied to the Front Blower Motor (M101) through two resistors of the Front Blower Resistor Unit (Z214) and the Front Fan Speed Switch (X247). The motor then runs at the low-medium speed. When the Front Fan Speed Switch (X247) is turned to position III, the Front Blower Motor Relay (K192) remains energised. Ground is now applied to the Front Blower Motor (M101) through one resistor of the Front Blower Resistor Unit (Z214) and the Front Fan Speed Switch (X247). The motor then runs at the medium-high speed. When the Front Fan Speed Switch (X247) is turned to position IV, the Front Blower Motor Relay (K192) remains energised. Ground is now applied directly to the Front Blower Motor (M101) through the Front Fan Speed Switch (X247). The motor then runs at high speed.

### Fresh Air Mode

With the Ignition Switch (X134) in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Air Recirculation Solenoid In-Line Fuse (P138) and Air Recirculation Solenoid (K123). When the Air Supply Selector Switch is moved to the Fresh Air position, ground is applied to the Air Recirculation Solenoid (K123). The solenoid now opens the fresh air intake flap allowing fresh air to enter the vehicle cabin. When the fresh air intake flap has been fully opened, the microswitch inside the Air Recirculation Solenoid (K123) moves to the Fresh Air position interrupting the ground supply. The solenoid now stops and remains in the Fresh Air position.

### Recirculated Air Mode

With the Ignition Switch (X134) in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Air Recirculation Solenoid In-Line Fuse (P138) and Air Recirculation Solenoid (K123). When the Air Supply Selector Switch is moved to Recirculate Air position, ground is applied to the Air Recirculation Solenoid (K123). The solenoid now closes the fresh air intake flap allowing only the air inside the vehicle cabin to circulate. When the fresh air intake flap has been fully closed, the microswitch inside the Air Recirculation Solenoid (K123) moves to the Recirculate Air position interrupting the ground supply. The solenoid now stops and remains in the Recirculate Air position.

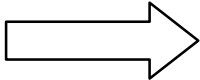
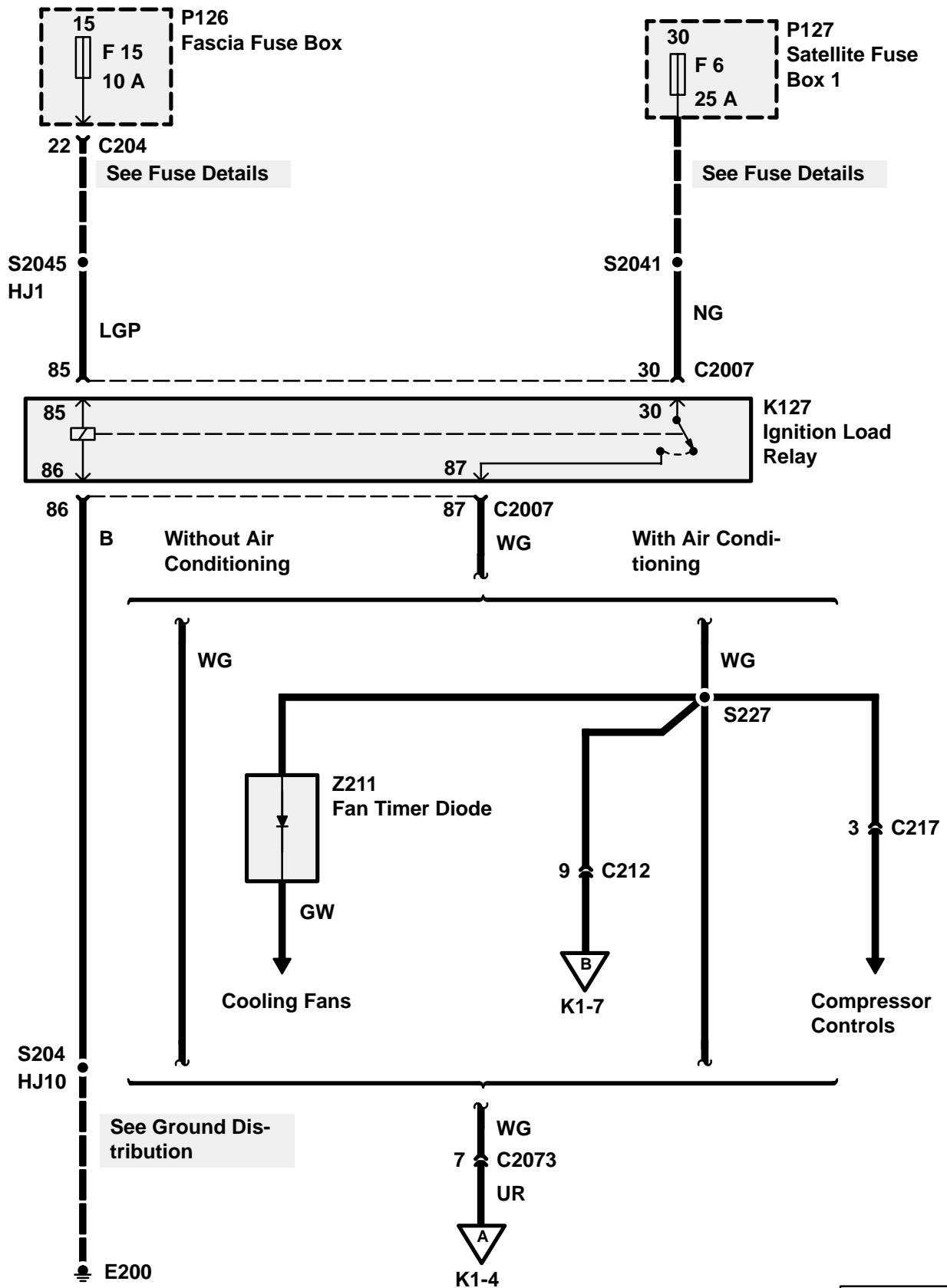
### **Rear Blower**

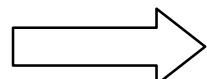
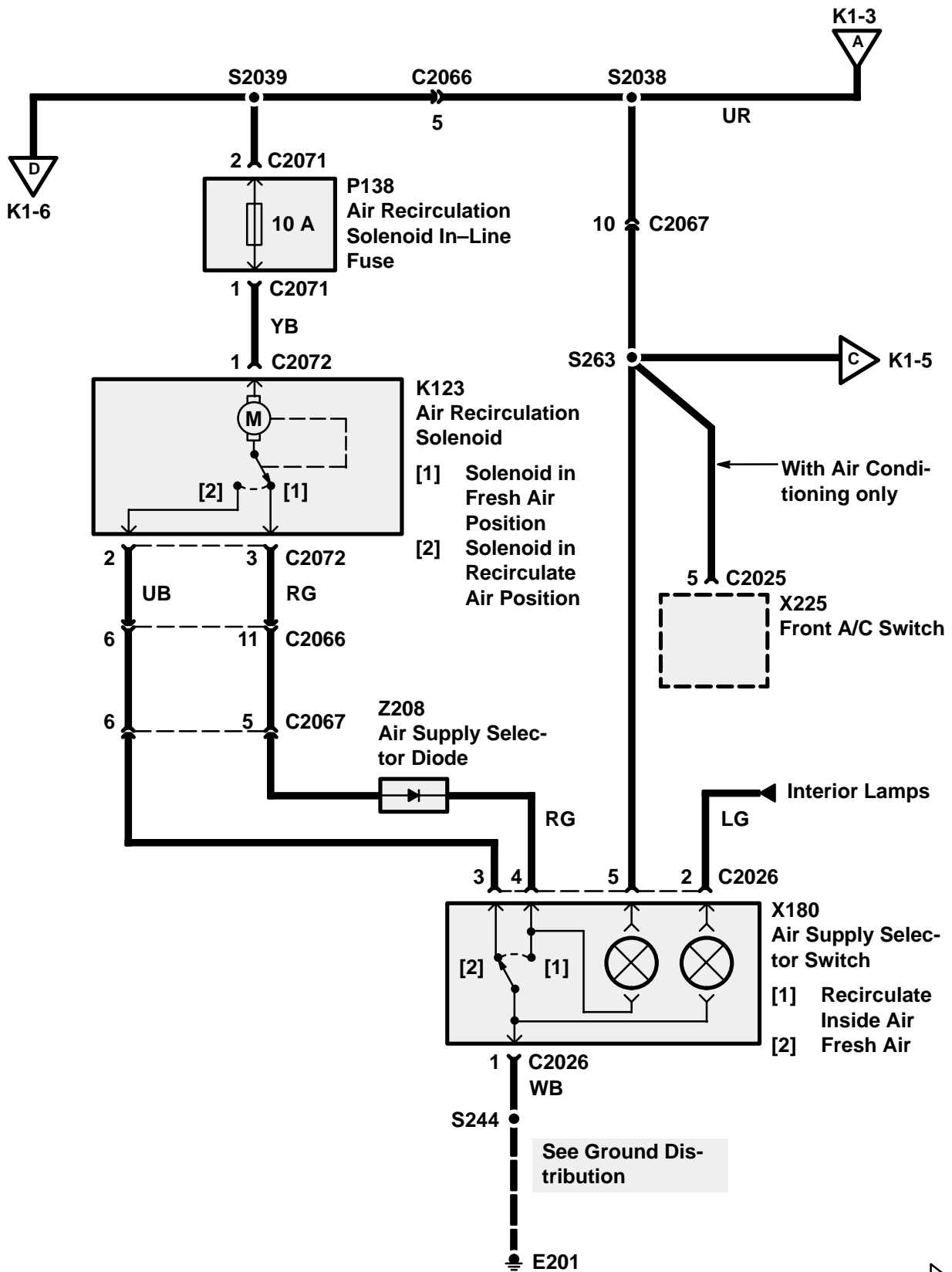
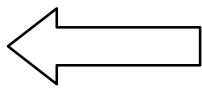
With the Ignition Switch (X134) in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Rear Blower Motor Relay (K193), the Rear A/C Fan Speed Relay (K205) and the Rear A/C Control Relay (K194).

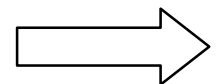
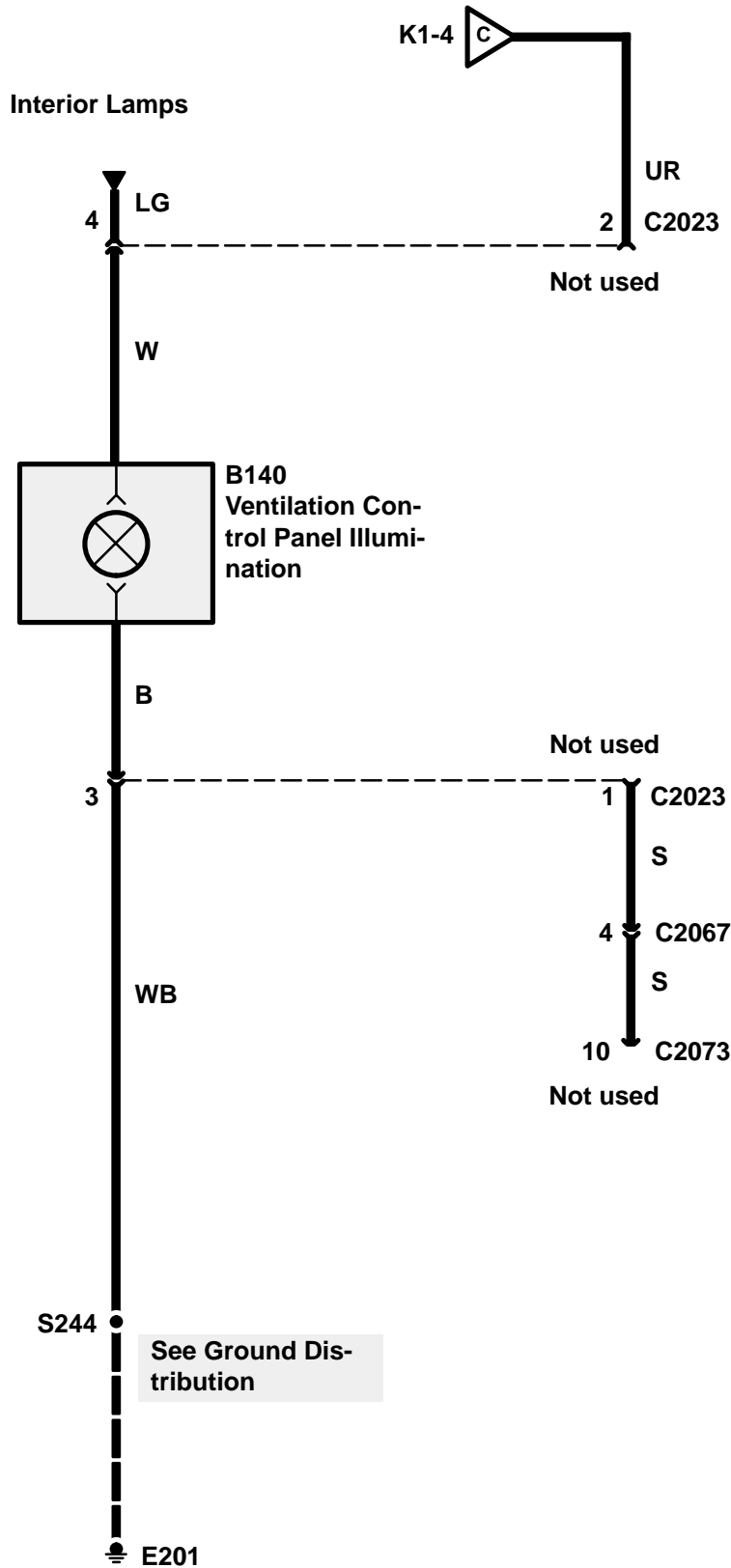
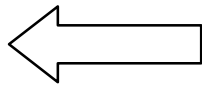
When the Rear A/C System is turned on, the Rear A/C Switch Amplifier provides ground to the Rear A/C Control Relay (K194). The relay is energised, applying ground to the Rear A/C Fan Speed Relay (K205). The Rear A/C Fan Speed Relay (K205) then energises. When the Passenger's Rear Fan Speed Switch (X246) is turned to position I, ground is applied to terminal 85 of the Rear Blower Motor Relay (K193) through the closed switch contacts of the Rear A/C Fan Speed Relay (K205). The Rear Blower Motor Relay (K193) energises, applying battery voltage to terminal 1 of the Rear Blower Motor (M145).

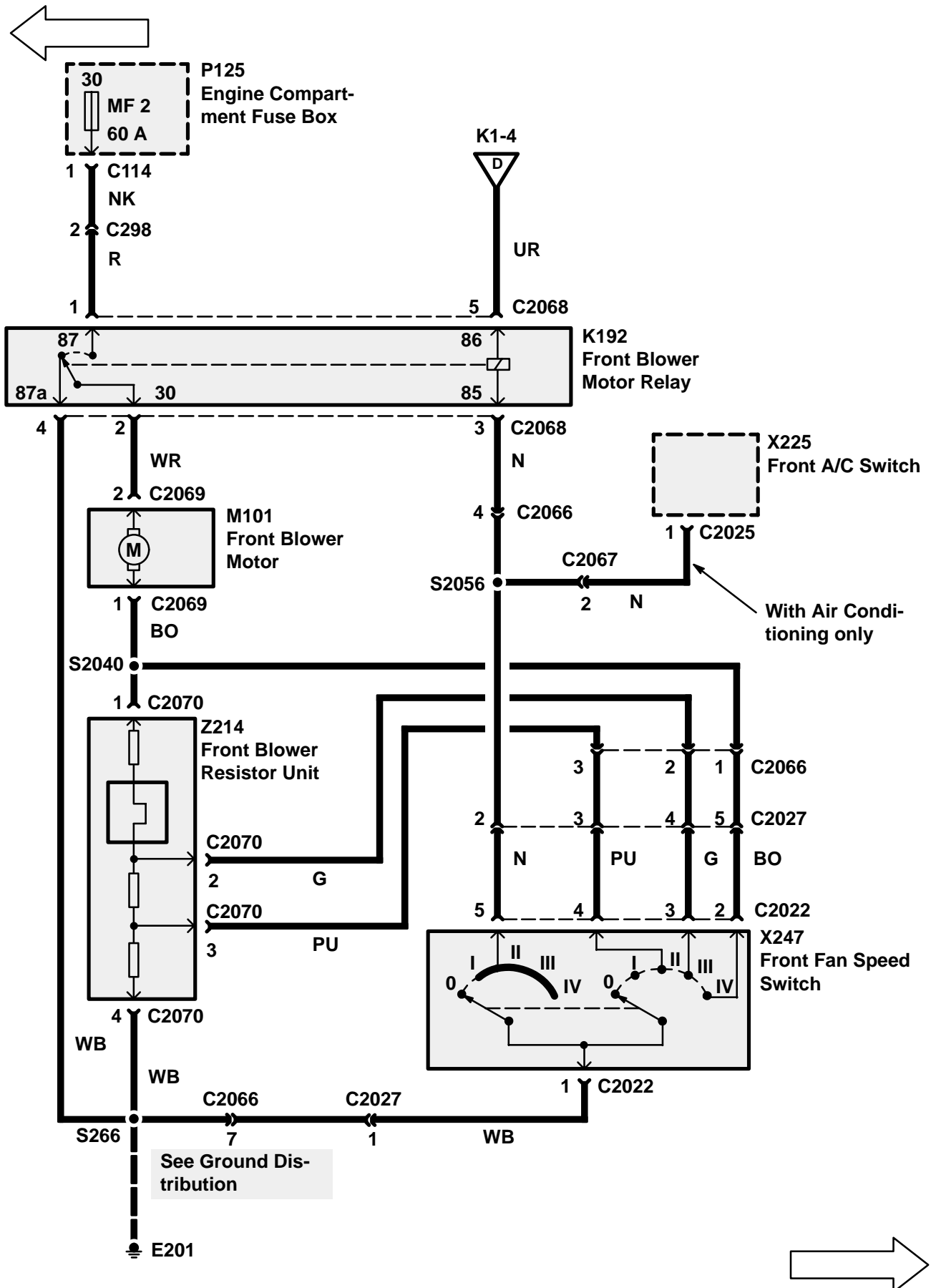
Ground is applied to the Rear Blower Motor (M145) through all three resistors of the Rear Blower Resistor Unit (Z215). The Rear Blower Motor (M145) then runs at low speed. When the Passenger's Rear Fan Speed Switch (X246) is turned to position II, the Rear Blower Motor Relay (K193) remains energised. Battery voltage is still applied to terminal 1 of the Rear Blower Motor (M145). Ground is now applied to the Rear Blower Motor (M145) through two resistors of the Rear Blower Motor Resistor Unit (Z215) and the Passenger's Rear Fan Speed Switch (X246). The motor then runs at the low-medium speed. When the Passenger's Rear Fan Speed Switch (X246) is turned to position III, the Rear Blower Motor Relay (K193) remains energised. Ground is now applied to the Rear Blower Motor (M145) through one resistor of the Rear Blower Motor Resistor Unit (Z215) and the Passenger's Rear Fan Speed Switch (X246).

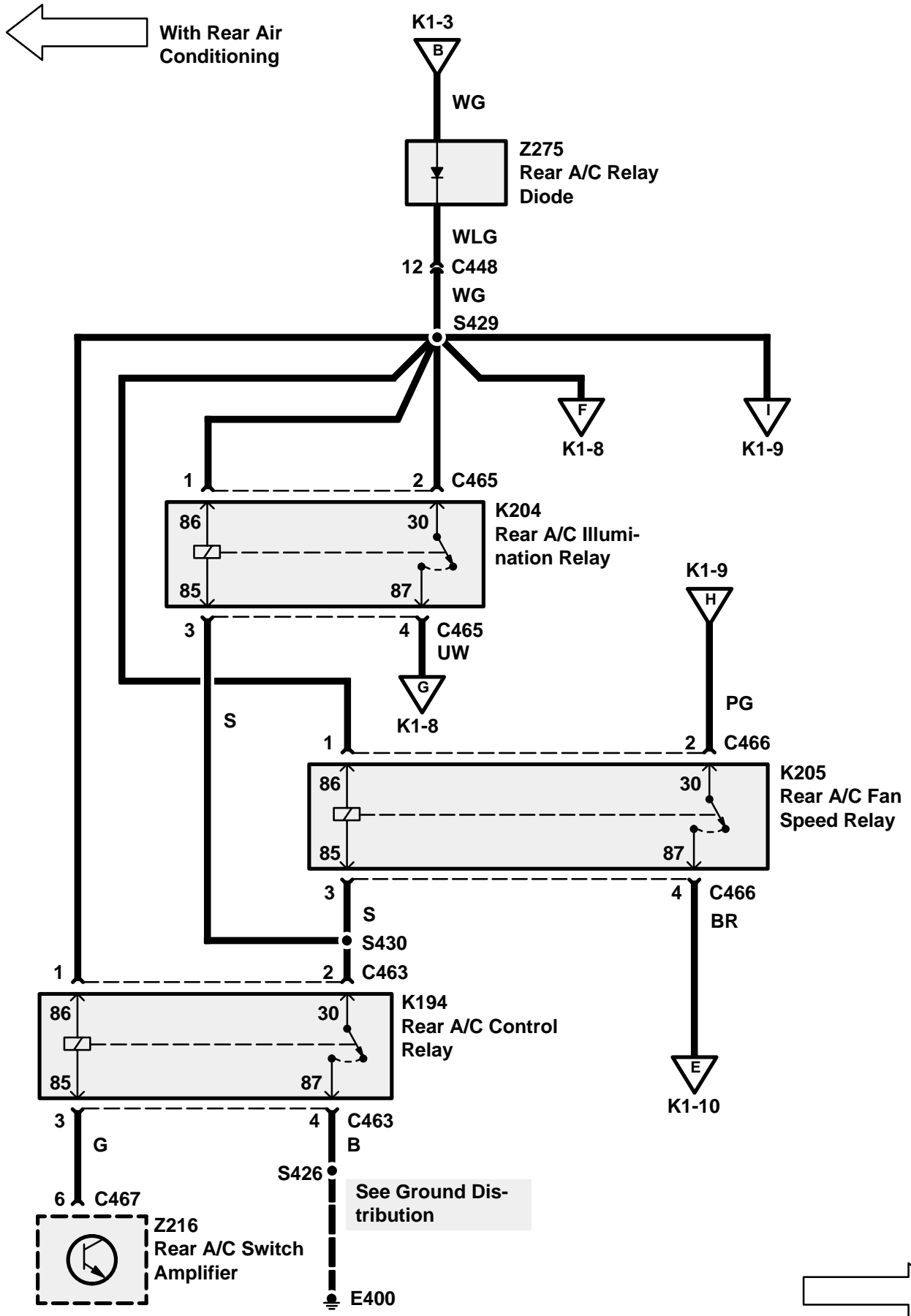
The motor then runs at medium-high speed. When the Passenger's Rear Fan Speed Switch (X246) is turned to position IV, the Rear Blower Motor Relay (K193) remains energised. Ground is now applied directly to the Rear Blower Motor (M145) through the Passenger's Rear Fan Speed Switch (X246). The motor then runs at high speed.

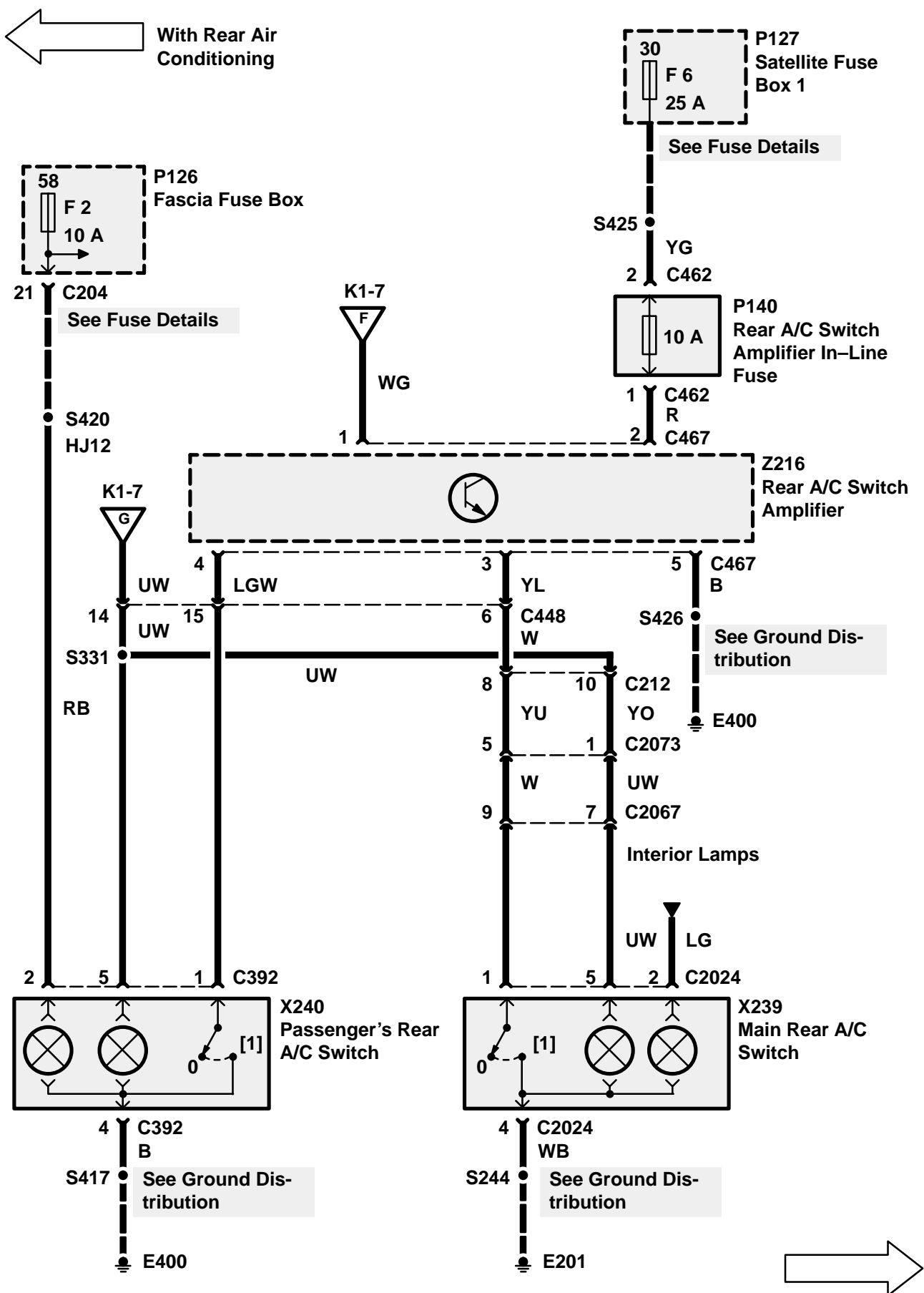






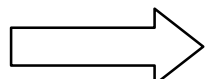
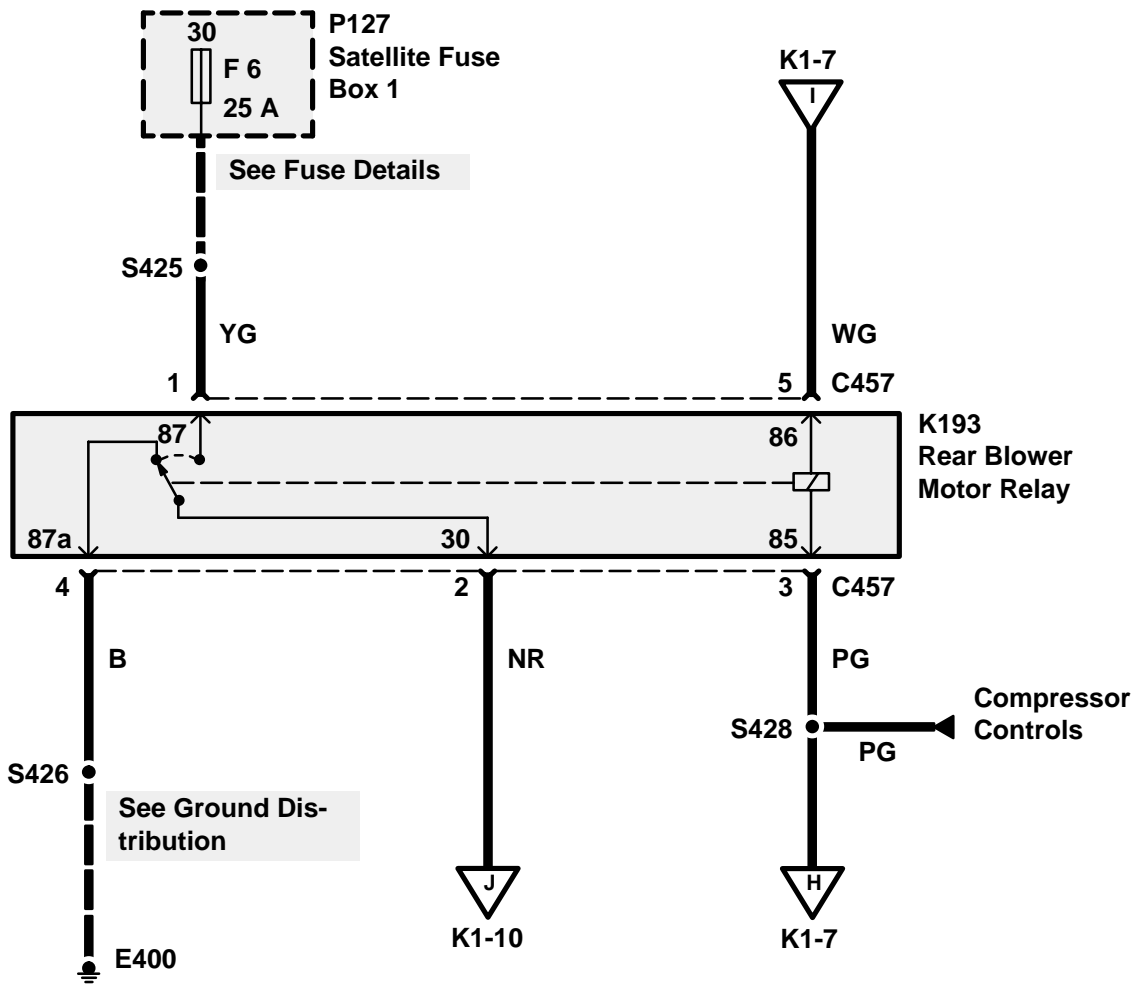




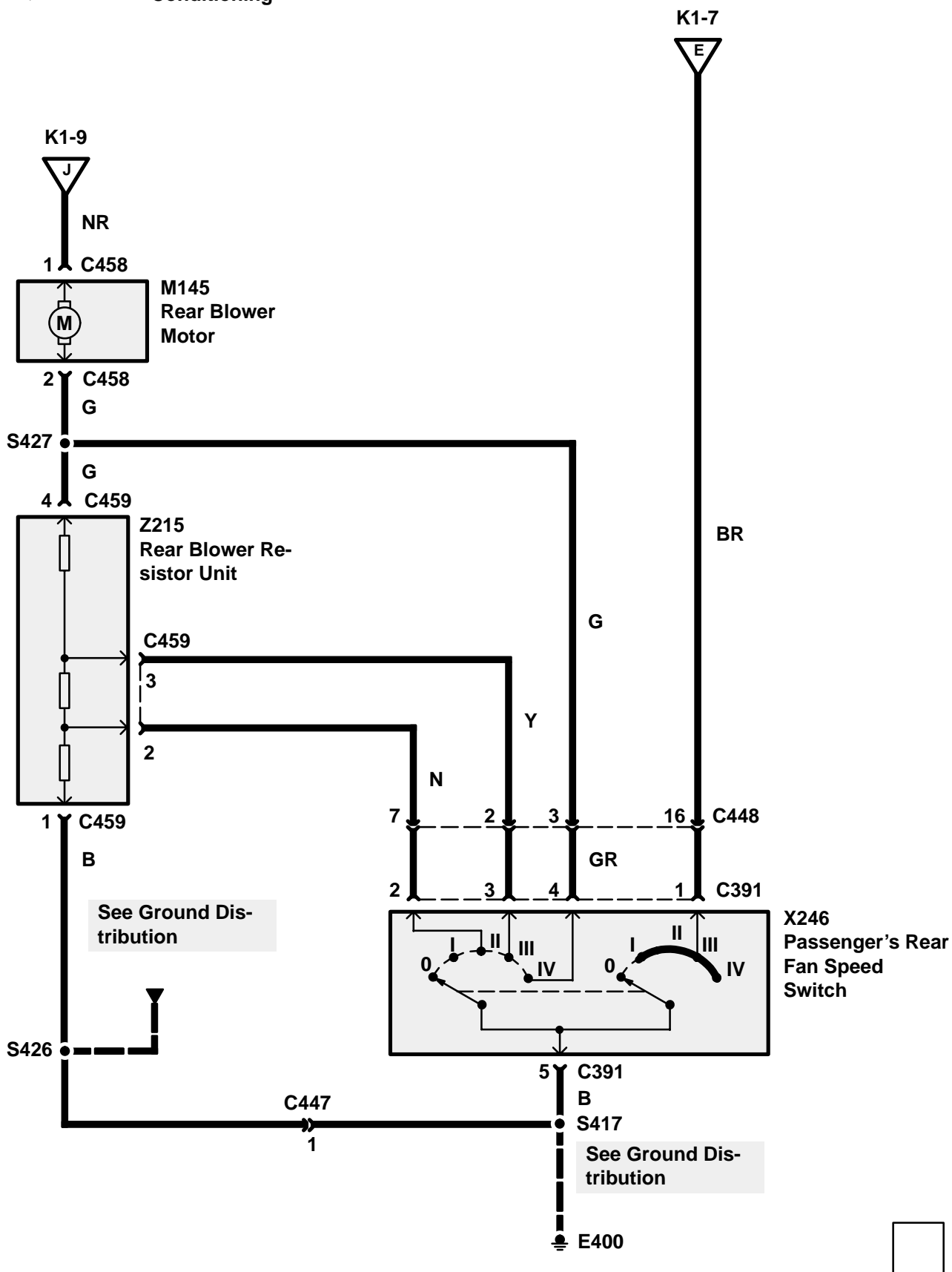




← With Rear Air Conditioning



← With Rear Air Conditioning



## CIRCUIT OPERATION

### Compressor Control (MFI-V8)

With the Ignition Switch (X134) in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Compressor Clutch Relay (K108) and the A/C Logic Relay (K170). When the Front Fan Speed Switch (X247) is turned to positions I, II, III, or IV and the Front A/C Switch (X225) is turned on, ground is provided to terminal 86 of the A/C Logic Relay (K170) through the closed contacts of the A/C Dual Pressure Switch (X102) and the Front A/C Evaporator Temperature Switch (X101).

The relay is energised, applying battery voltage to the Engine Control Module (ECM) (Z132), which signals the ECM that compressor operation has been requested. The ECM then provides ground to the coil of the Compressor Clutch Relay (K108). The relay is energised, applying battery voltage to the Compressor Clutch (K107). Compressor Clutch operation is now controlled by the status of the A/C Dual Pressure Switch (X102) and the Front A/C Evaporator Temperature Switch (X101).

The Front A/C Evaporator Temperature Switch (X101) is fitted in the airflow out of the front evaporator to sense the temperature of the exterior fins. Should ice begin to form due to low temperature, the switch will open. The A/C Dual Pressure Switch (X102) monitors refrigerant pressure in the high pressure line. Should pressure become too high or too low, the switch will open. When one or both of these switches open, the ground supply to terminal 86 of the A/C Logic Relay (K170) will be interrupted. The relay de-energises, removing battery voltage from the Engine Control Module (ECM) (Z132), which signals the ECM that compressor operation should be turned off. The ECM removes the ground supply to the coil of the Compressor Clutch Relay (K108). The relay then de-energises, removing battery voltage from the Compressor Clutch (K107), thereby disengaging the Compressor.

### Compressor Control (MFI-T16)

With the Ignition Switch (X134) in position II, battery voltage is applied to the Compressor Clutch Relay (K108) and the A/C Logic Relay (K170). When the Front Fan Speed Switch (X247) is turned to positions I, II, III, or IV and the Front A/C Switch (X225) is turned on, ground is provided to terminal 85 of the A/C Logic Relay (K170) through the closed

contacts of the A/C Dual Pressure Switch (X102) and the Front A/C Evaporator Temperature Switch (X101).

The relay is energised, applying ground to terminal 35 of the Engine Control Module (ECM) (Z132), which signals the ECM that compressor operation has been requested. The ECM then provides ground to the terminal 86 of the Compressor Clutch Relay (K108). The relay is energised, applying battery voltage to the Compressor Clutch (K107).

Compressor Clutch operation is now controlled by the status of the A/C Dual Pressure Switch (X102) and the Front A/C Evaporator Temperature Switch (X101).

The Front A/C Evaporator Temperature Switch (X101) is fitted in the airflow out of the front evaporator to sense the temperature of the exterior fins. Should ice begin to form due to low temperature, the switch will open. The A/C Dual Pressure Switch (X102) monitors refrigerant pressure in the high pressure line. Should pressure become too high or too low, the switch will open. When one or both of these switches open, the ground supply to terminal 85 of the A/C Logic Relay (K170) will be interrupted. The relay de-energises, removing the ground supply from terminal 35 of the Engine Control Module (ECM) (Z132), which signals the ECM that compressor operation should be turned off. The ECM removes the ground supply to terminal 86 of the Compressor Clutch Relay (K108). The relay then de-energises, removing battery voltage from the Compressor Clutch (K107), thereby disengaging the Compressor.

### Compressor Control (NAS) (SFI-V8)

With the Ignition Switch (X134) in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Compressor Clutch Relay (K108). When the Front Fan Speed Switch (X247) is turned to positions I, II, III, or IV and the Front A/C Switch (X225) is turned on, ground is provided to terminal 28 of the Engine Control Module (ECM) (Z132) through the closed contacts of the A/C Dual Pressure Switch (X102) and the Front A/C Evaporator Temperature Switch (X101). The signal informs the ECM that compressor operation has been requested. The ECM then provides ground to the coil of the Compressor Clutch Relay (K108). The relay is energised, applying battery voltage to the Compressor Clutch (K107). Compressor Clutch operation is now controlled by the status of the A/C Dual Pressure Switch (X102) and the Front A/C Evaporator Temperature Switch (X101).

The Front A/C Evaporator Temperature Switch (X101) is fitted in the airflow out of the front evaporator to sense the temperature of the exterior fins. Should ice begin to form due to low temperature, the switch will open. The A/C Dual Pressure Switch (X102) monitors refrigerant pressure in the high pressure line. Should pressure become too high or too low, the switch will open. When one or both of these switches open, the ground supply to terminal 28 of the ECM will be interrupted. This signal informs the ECM that compressor operation should be turned off. The ECM removes the ground supply to the coil of the Compressor Clutch Relay (K108). The relay then de-energises, removing battery voltage from the Compressor Clutch (K107), thereby disengaging the Compressor.

#### **Compressor Control (300Tdi without EDC)**

With the Ignition Switch (X134) in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Compressor Clutch Relay (K108).

When the Front Fan Speed Switch (X247) is turned to positions I, II, III, or IV and the Front A/C Switch (X225) is turned on, ground is provided to terminal 86 of the Compressor Clutch Relay (K108) through the closed contacts of the A/C Dual Pressure Switch (X102), the Front A/C Evaporator Temperature Switch (X101), and the Compressor Clutch Cut-out Switch (X259).

The relay is energised, applying battery voltage to the Compressor Clutch (K107). Compressor Clutch operation is now controlled by the status of the A/C Dual Pressure Switch (X102), the Front A/C Evaporator Temperature Switch (X101), and the Compressor Clutch Cut-out Switch (X259).

The Front A/C Evaporator Temperature Switch (X101) is fitted in the airflow out of the front evaporator to sense the temperature of the exterior fins. Should ice begin to form due to low temperature, the switch will open. The A/C Dual Pressure Switch (X102) monitors refrigerant pressure in the high pressure line. Should pressure become too high or too low the switch will open. When one or more of these switches open, the ground supply to terminal 86 of the Compressor Clutch Relay (K108) will be interrupted. The relay de-energises, removing battery voltage from the Compressor Clutch (K107), thereby disengaging the Compressor.

#### **Compressor Control (300Tdi with EDC)**

With the Ignition Switch (X134) in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Compressor Clutch Relay (K108). When the Front Fan Speed Switch (X247) is turned to positions I, II, III, or IV and the Front A/C Switch (X225) is turned on, ground is provided to terminal 44 of the Engine Control Module (ECM) (Z132) through the closed contacts of the A/C Dual Pressure Switch (X102) and the Front A/C Evaporator Temperature Switch (X101). The signal informs the ECM that compressor operation has been requested. The ECM then provides ground to the coil of the Compressor Clutch Relay (K108). The relay is energised, applying battery voltage to the Compressor Clutch (K107). Compressor Clutch operation is now controlled by the status of the A/C Dual Pressure Switch (X102) and the Front A/C Evaporator Temperature Switch (X101).

The Front A/C Evaporator Temperature Switch (X101) is fitted in the airflow out of the front evaporator to sense the temperature of the exterior fins. Should ice begin to form due to low temperature, the switch will open. The A/C Dual Pressure Switch (X102) monitors refrigerant pressure in the high pressure line. Should pressure become too high or too low, the switch will open. When one or both of these switches open, the ground supply to terminal 44 of the ECM will be interrupted. This signal informs the ECM that compressor operation should be turned off. The ECM removes the ground supply to the coil of the Compressor Clutch Relay (K108). The relay then de-energises, removing battery voltage from the Compressor Clutch (K107), thereby disengaging the Compressor.

#### **Rear A/C Refrigerant Control Valve**

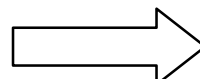
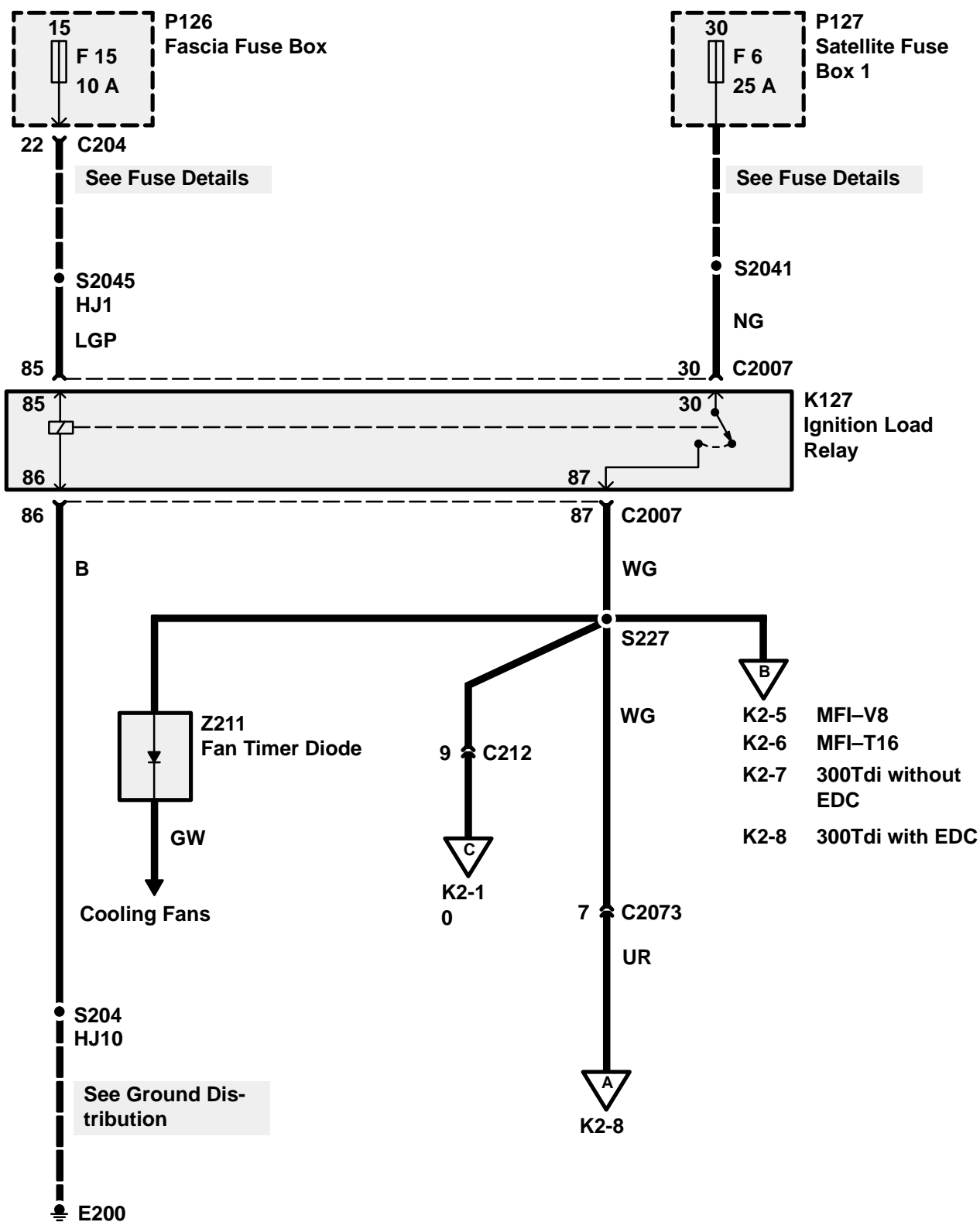
When front A/C has been selected and the Compressor Clutch (K107) is engaged, the Compressor Clutch Relay (K108) is energised and voltage is applied on the BG wires to the Rear A/C Refrigerant Control Valve (K207). When rear A/C is selected a ground signal is applied to the Rear A/C Switch Amplifier (Z216). The Rear A/C Switch Amplifier (Z216) then applies a ground signal to energise the Rear A/C Control Relay (K194) and the Rear A/C Fan Speed Relay (K205). When the Passenger's Rear Fan Speed Switch (X246) is in any position other than Off,

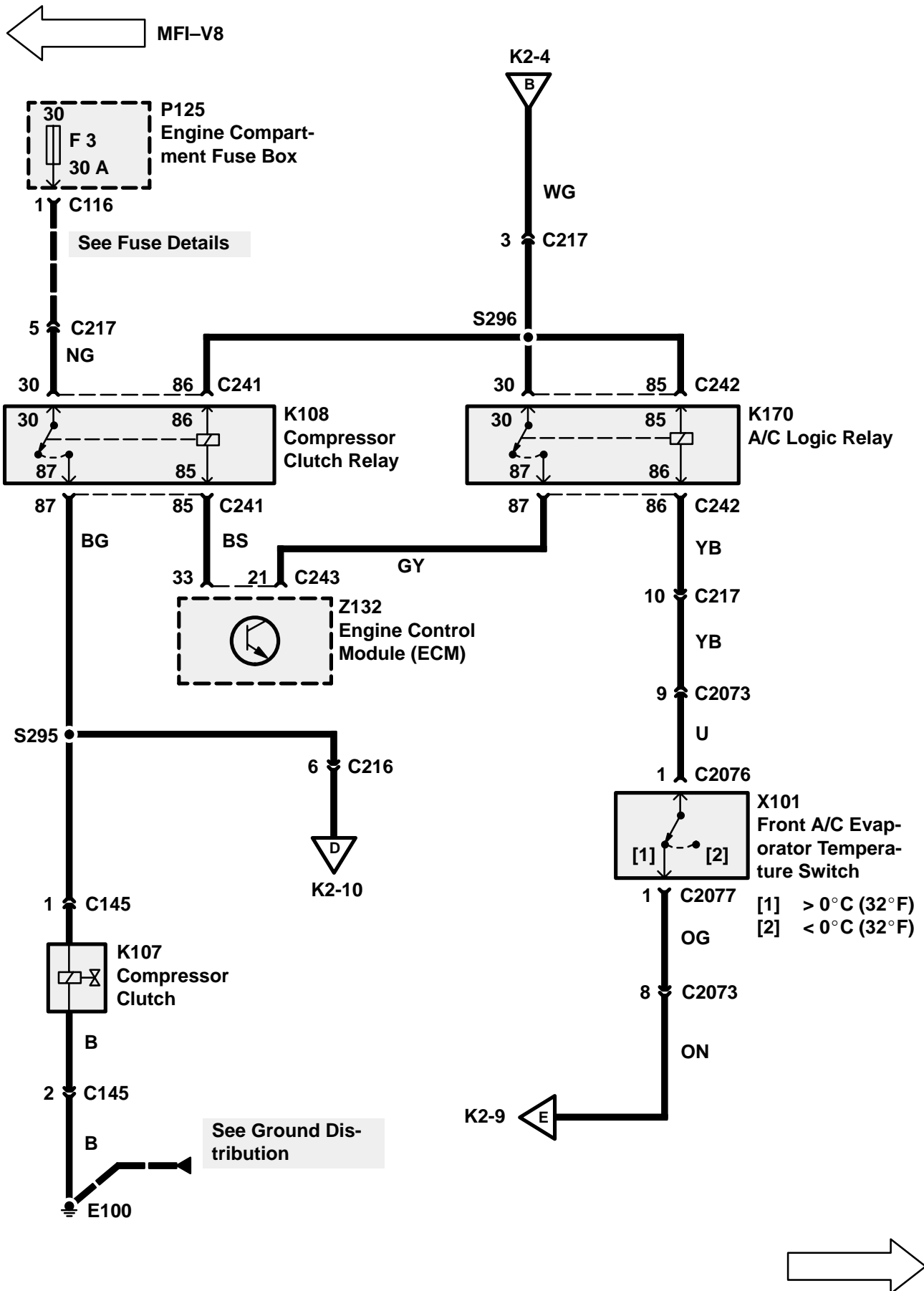
ground is applied to the Rear A/C Refrigerant Control Valve (K207) through the closed contacts of the Passenger's Rear Fan Speed Switch (X246), BR wire, closed contacts of the Rear A/C Fan Speed Relay (K205), PG wire, UB wire, Rear A/C Refrigerant Control Valve Diode (Z228), P wire, closed contacts of the Rear A/C Evaporator Temperature Switch (X260), and the RG wire.

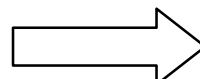
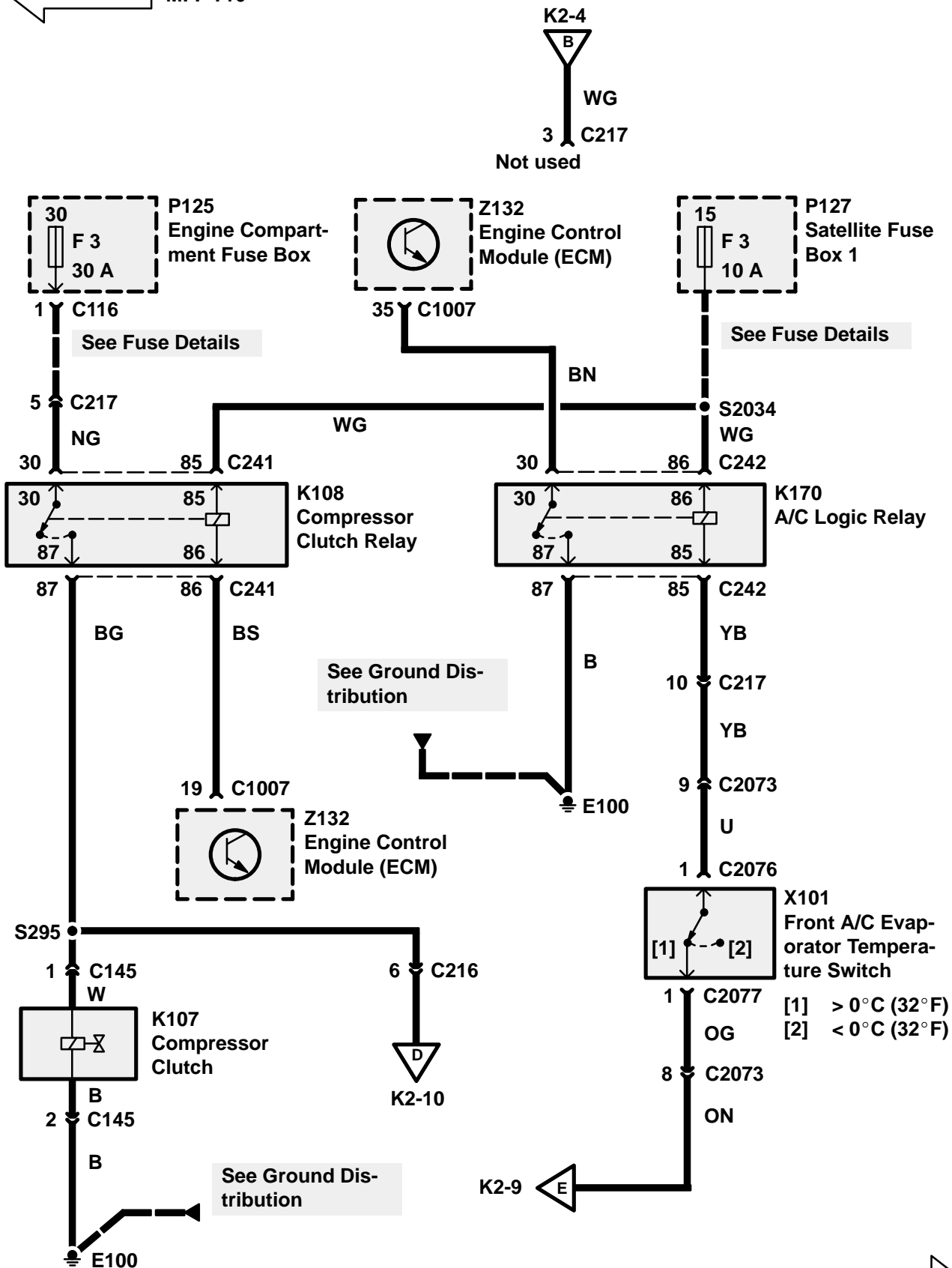
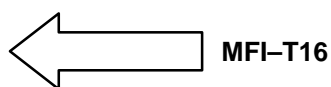
The Rear A/C Evaporator Temperature Switch (X260) senses the temperature of the exterior fins. Should ice begin to form due to low temperature, the switch will open and the ground supply to the Rear A/C Refrigerant Control Valve (K207) will then be interrupted. The valve de-energises and refrigerant flow is interrupted.

The Rear A/C Refrigerant Control Valve (K207) will also be de-energised if one or more of the following conditions occurs:

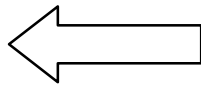
1. The Front A/C Switch (X225) has been turned OFF.
2. The Front Fan Speed Switch (X247) has been turned OFF.
3. The Rear A/C switches have been turned OFF.
4. The Passenger's Rear Fan Speed Switch (X246) has been turned OFF.
5. The ECM determines that compressor clutch operation is no longer required.
6. Compressor Clutch (K107) operation has been disabled by the A/C Dual Pressure Switch (X102) or the Front A/C Evaporator Temperature Switch (X101).
7. Compressor Clutch (K107) operation has been disabled by the Compressor Clutch Cut-Out Switch (X259) (300Tdi Without EDC Only).



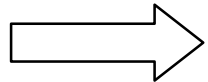
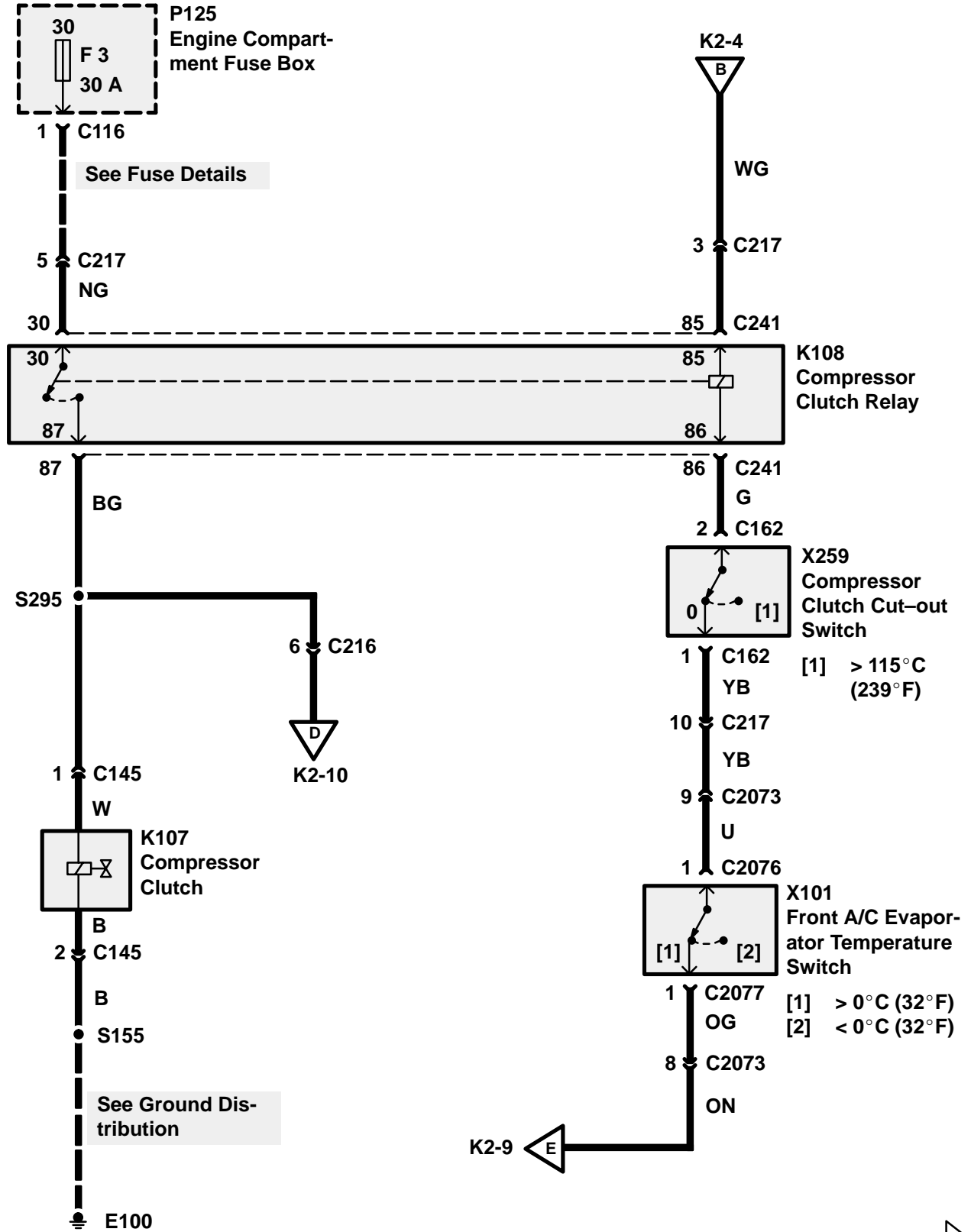


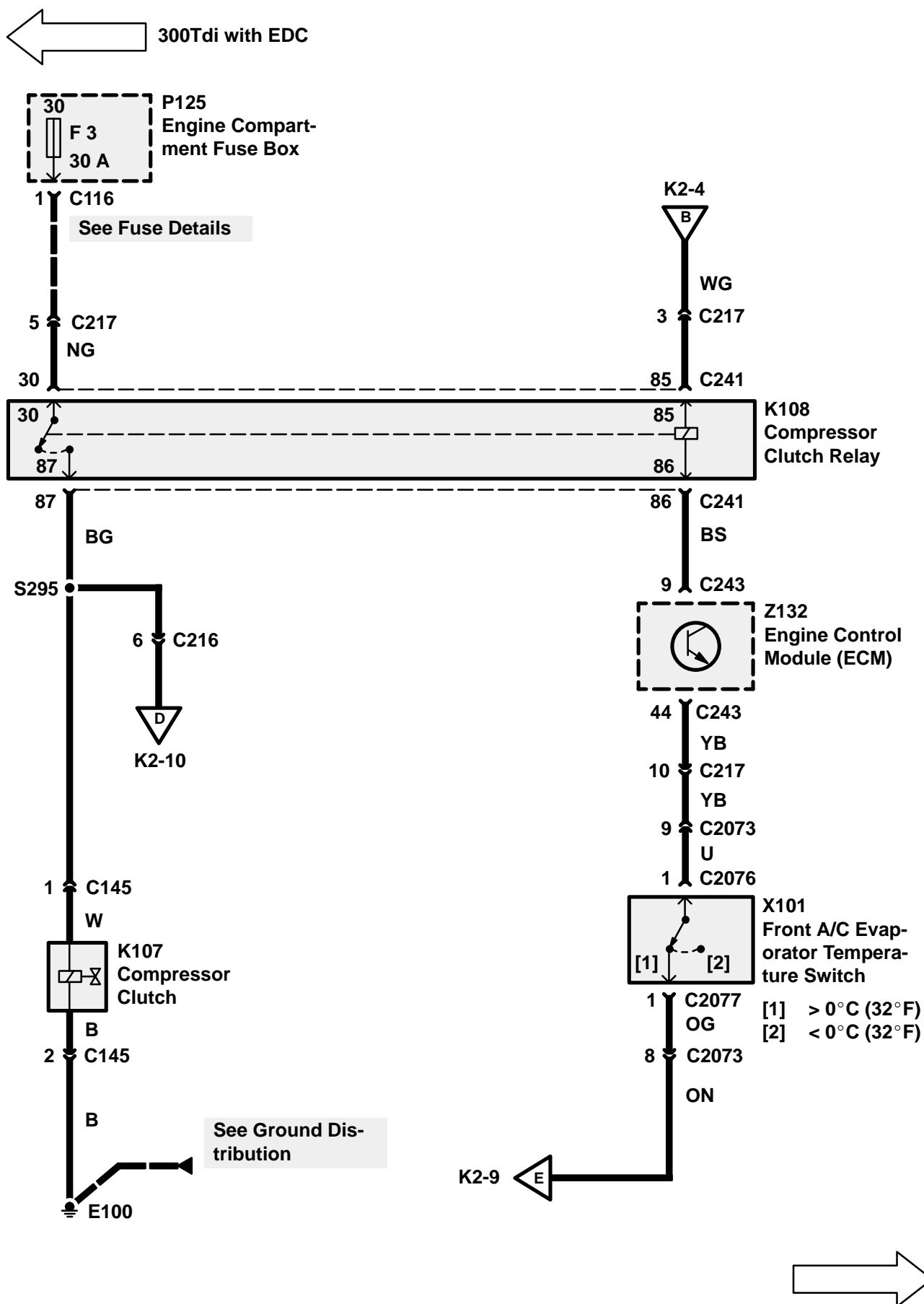


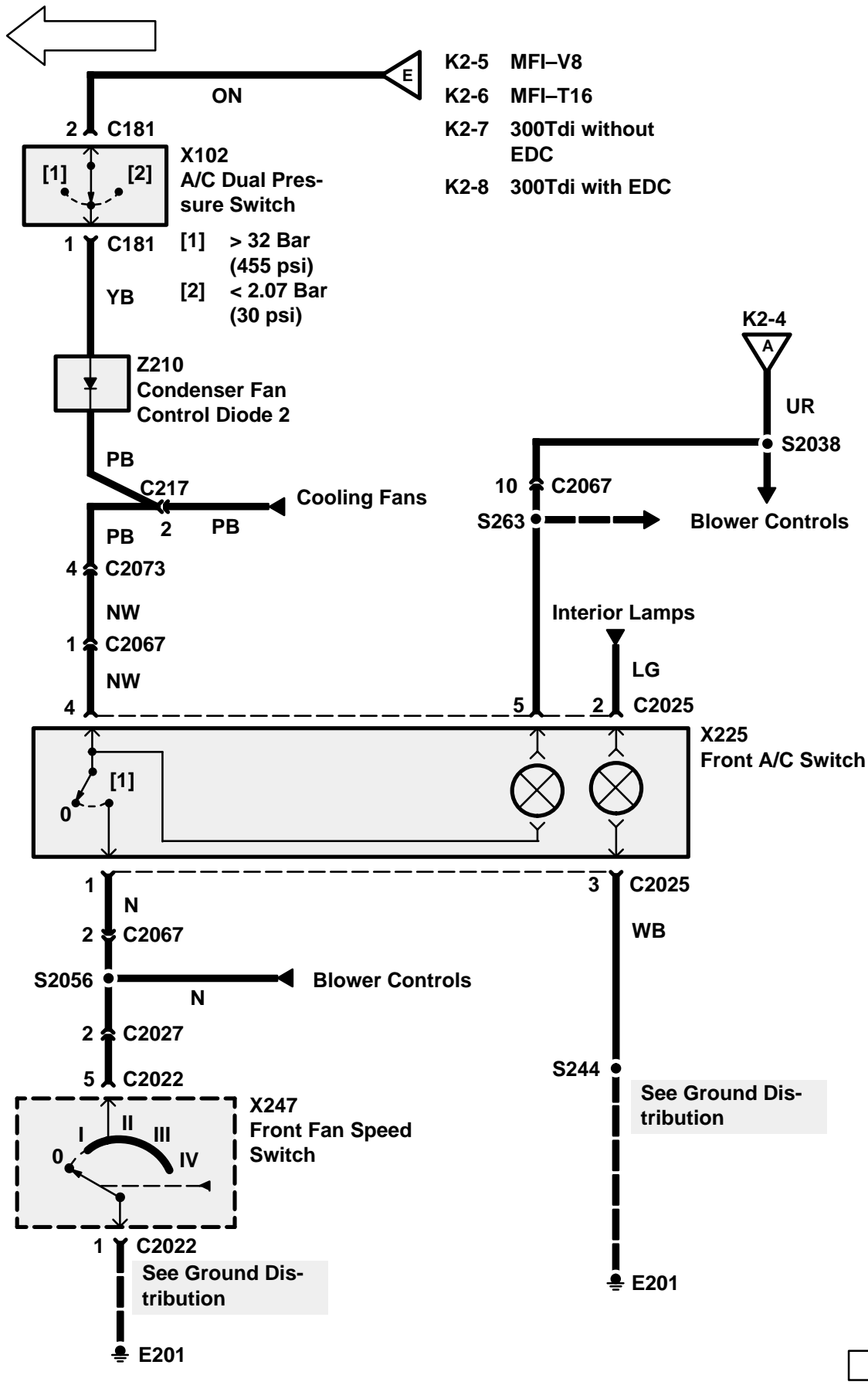


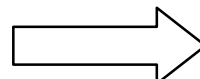
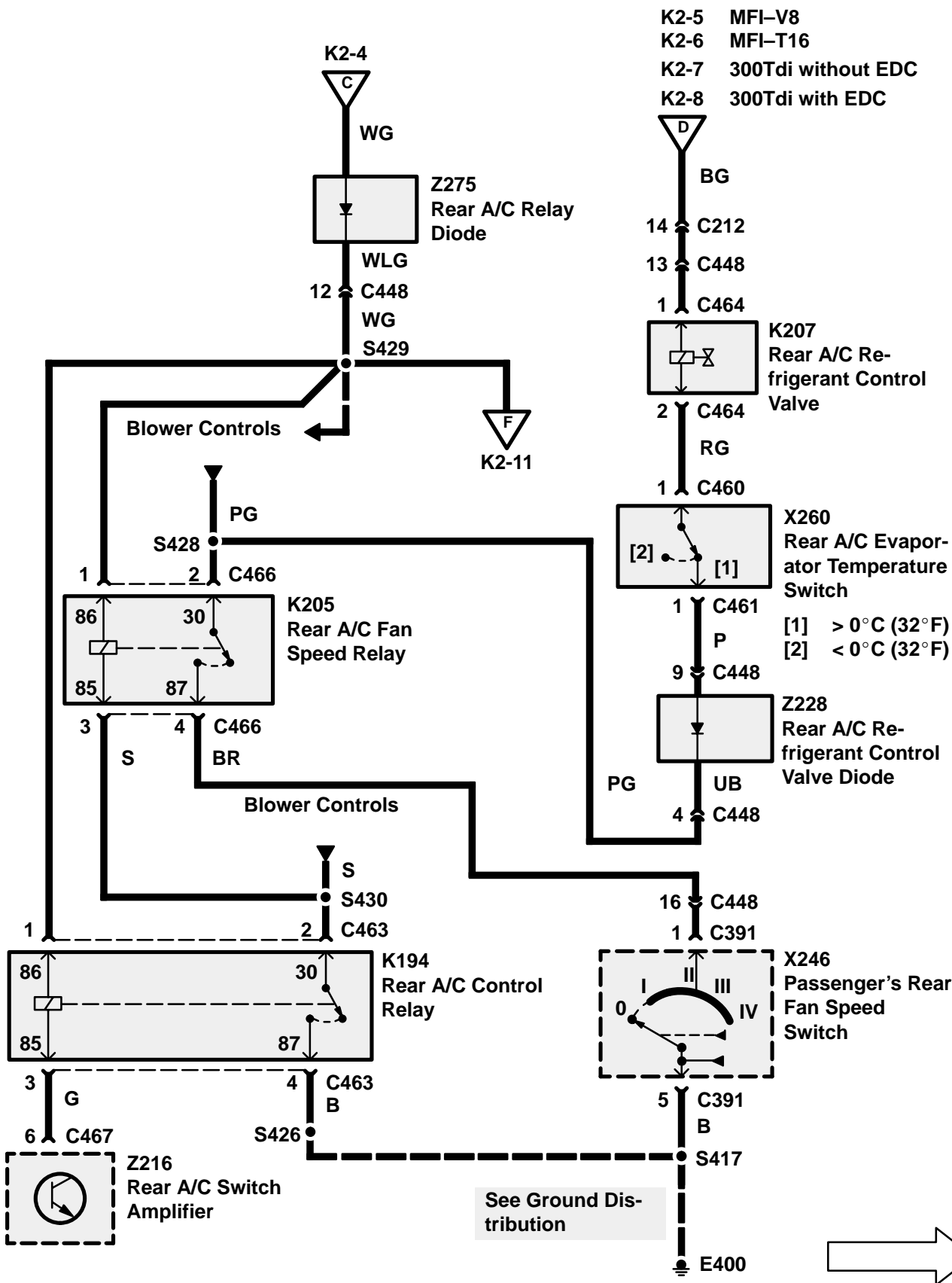


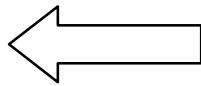
300Tdi without EDC



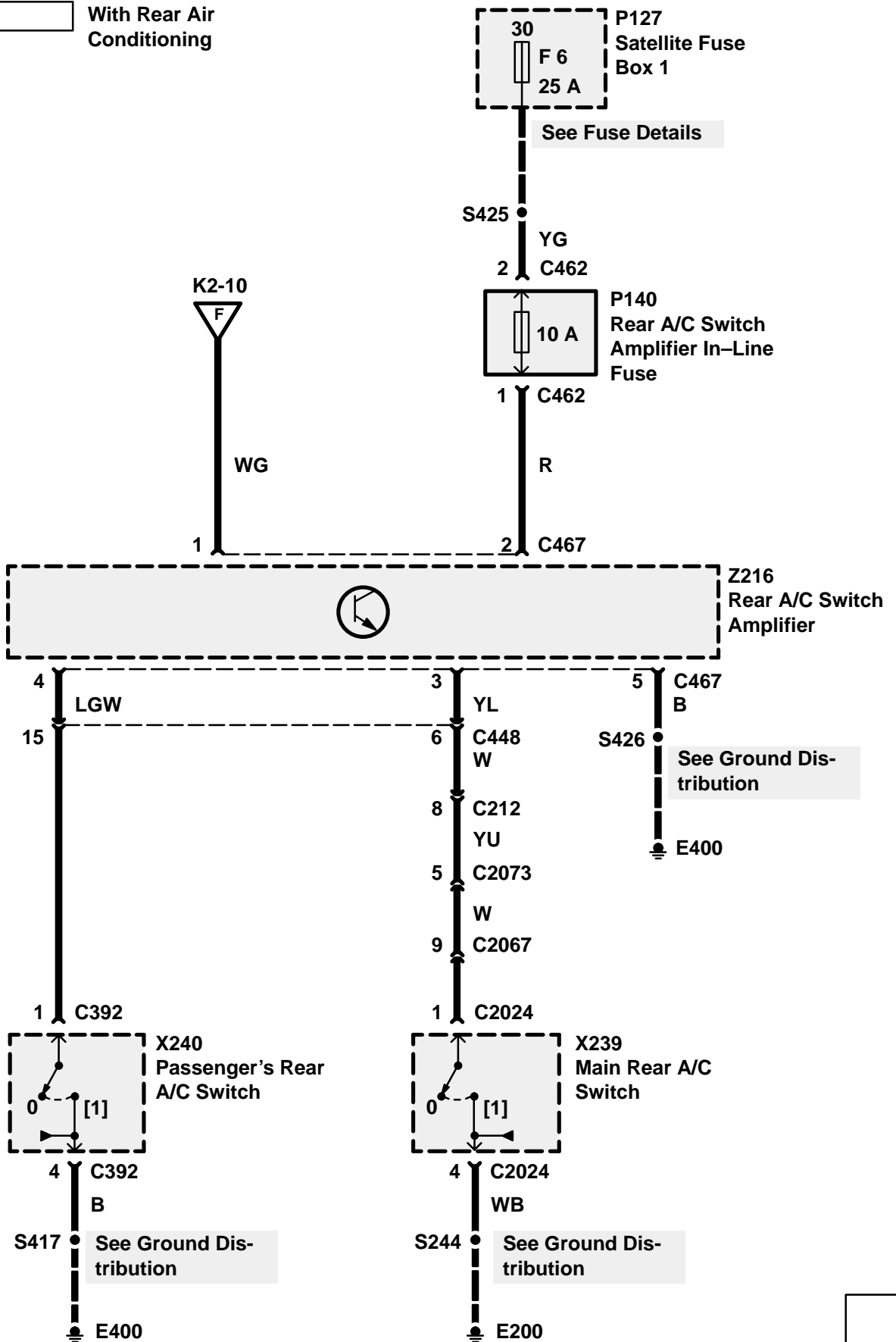








With Rear Air Conditioning



## CIRCUIT OPERATION

### Condenser Fan Operation (MFI-V8)

The Condenser Fans Motors (M113, M121) on vehicles equipped with MFI-V8 engines operate when any of the following conditions occur:

8. Coolant temperature exceeds 100°C (212°F).
9. The air conditioning system is operating.
10. The Engine Control Module (ECM) (Z132) determines that fuel temperature exceeds 70°C and coolant temperature exceeds 110°C after engine shutdown. When this occurs, the fans are turned on for approximately 10 minutes after the engine is shut off.

### Operation with High Coolant Temperature (MFI-V8)

When the Ignition Switch (X134) is in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Condenser Fan Relay (K109) and the Fan Control Module (Z118). If the coolant temperature exceeds 100°C (212°F), the Condenser Fan Coolant Temperature Switch (X113) closes and energises the Condenser Fan Relay (K109) by applying ground to the relay's coil. When the relay is energised, voltage from fuse F3 is applied to the Condenser Fan Motors (M113, M121) through the relay's contacts.

### Fan Operation with A/C (MFI-V8)

With the Ignition Switch (X134) in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Condenser Fan Relay (K109). When the Front A/C Switch (X225) is turned on and the Front Fan Speed Switch (X247) is turned to positions I, II, III, or IV, ground is applied to terminal 86 of the Condenser Fan Relay. The relay energises, applying battery voltage from fuse F3 to the Condenser Fan Motors (M113, M121).

### Operation with the Engine Off (MFI-V8)

The Engine Control Module (Z132) monitors fuel temperature and coolant temperature through sensors. When the ECM determines that fuel temperature is above 70°C and coolant temperature exceeds 110°C after engine shutdown, the ECM will command fan operation for approximately 10

minutes. The ECM turns on the fans by momentarily grounding the Fan Control Module (Z118) through the BG wire. When the timer unit is grounded, it starts a solid state timer and begins to apply ground from its terminal 9 to the Condenser Fan Relay (K109) through the BP wire. With the Condenser Fan Relay energised, voltage from fuse F3 is applied to the Condenser Fan Motors (M113, M121) through the relay contacts.

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**Cooling Fan and Condenser Fan Operation****(MFI–T16)**

The Cooling Fan 1 (M141) or Cooling Fans (M141, M142) and Condenser Fan Motors (M113, M121) on vehicles equipped with MFI–T16 engines operate when any of the following conditions occur:

1. The A/C system is operating.
2. The Engine Control Module (ECM) determines that Cooling Fan and/or Condenser Fan Motor operation is required.

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**Cooling Fan Operation without A/C (MFI–T16)**

With the Ignition Switch (X134) in position II, battery voltage is applied to the Cooling Fan Relay (K190) from fuse F3 of the Satellite Fuse Box 1 (P127). When Cooling Fan Operation is required, the Engine Control Module (ECM) (Z132) grounds terminal 85 of the Cooling Fan Relay (K190). The relay energises, applying battery voltage from fuse F3 of the Engine Compartment Fuse Box (P125) to the Cooling Fan Motor 1 (M141). When Cooling Fan Operation is no longer required, the ECM removes the ground supply to the Cooling Fan Relay (K190). The Relay de–energises, removing the voltage supply to the Cooling Fan Motor 1 (M141).

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**Cooling Fan and Condenser Fan Operation with A/C (MFI–T16)**

With the Ignition Switch (X134) in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Condenser Fan Relay (K109). When Cooling Fan and Condenser Fan operation is required, the Engine Control Module (ECM) (Z132) grounds terminal 85 of the Condenser Fan Relay (K109). The relay energises, applying battery voltage from fuse F3 of the Engine Compartment Fuse Box (P125) to the Cooling Fan Motors (M141, 142) and the Condenser Fan Motors (M113, M121). When Cooling Fan and Condenser Fan operation is no longer required, the ECM removes the ground supply to the Condenser Fan Relay (K109). The relay de–energises, removing the voltage supply to the Cooling Fans (M141, M142) and the Condenser Fan Motors (M113, M121).

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### Condenser Fan Operation (300Tdi)

The Condenser Fan Motors (M113, M121) on vehicles equipped with diesel engines operate when any one of the following conditions occur:

1. Coolant temperature exceeds 100°C (212°F).
2. The A/C is operating.

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### Condenser Fan with High Coolant Temperature Operation (300Tdi)

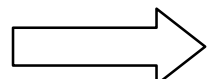
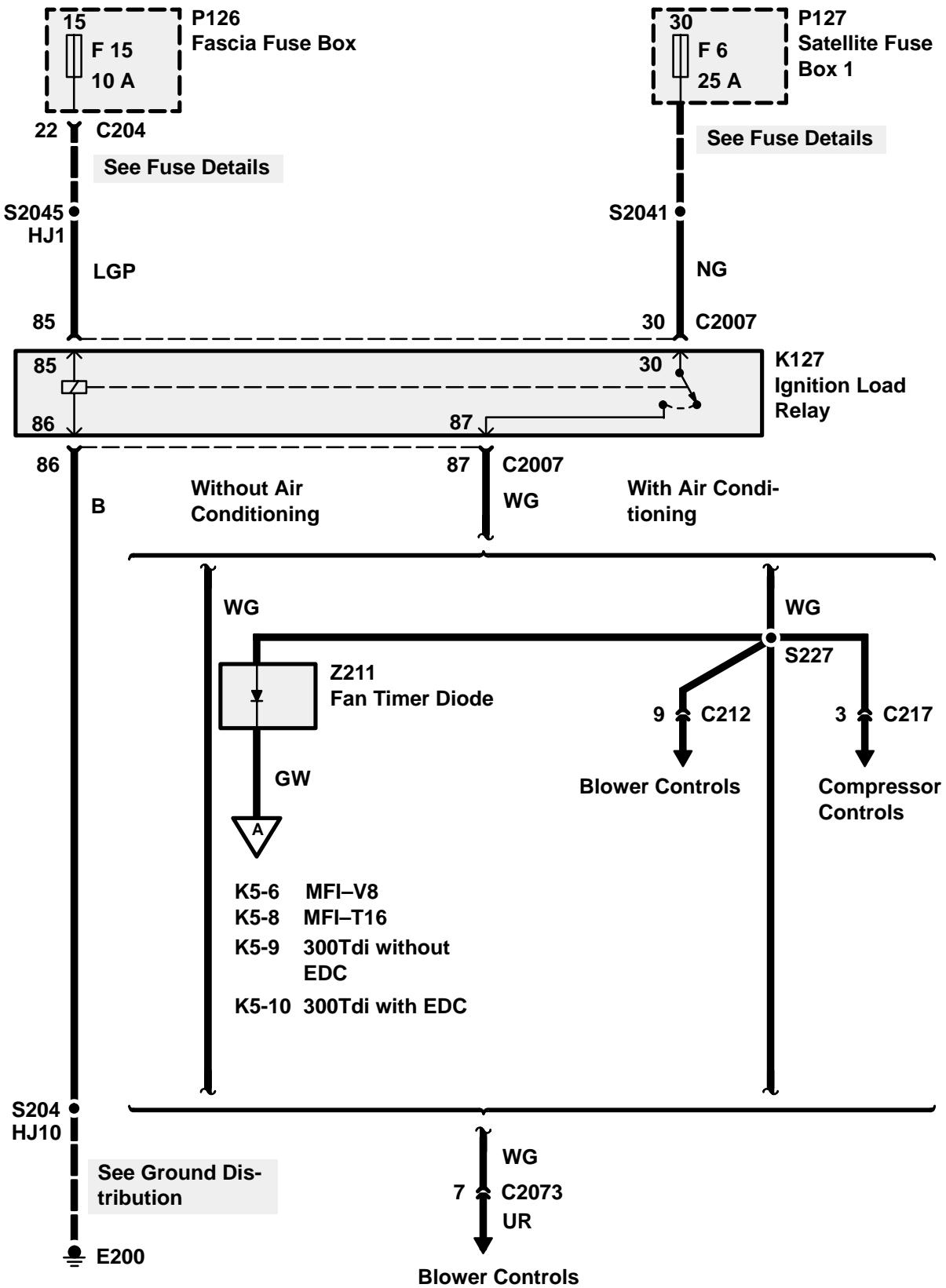
When the Ignition Switch (X134) is in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Condenser Fan Relay (K109). If the coolant temperature exceeds 100°C (212°F), the Condenser Fan Coolant Temperature Switch (X113) closes and energises the Condenser Fan Relay (K109) by applying ground to the relay's coil. When the relay is energised, voltage from fuse F3 is applied to the Condenser Fan Motors (M113, M121) through the relay's contacts.

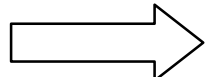
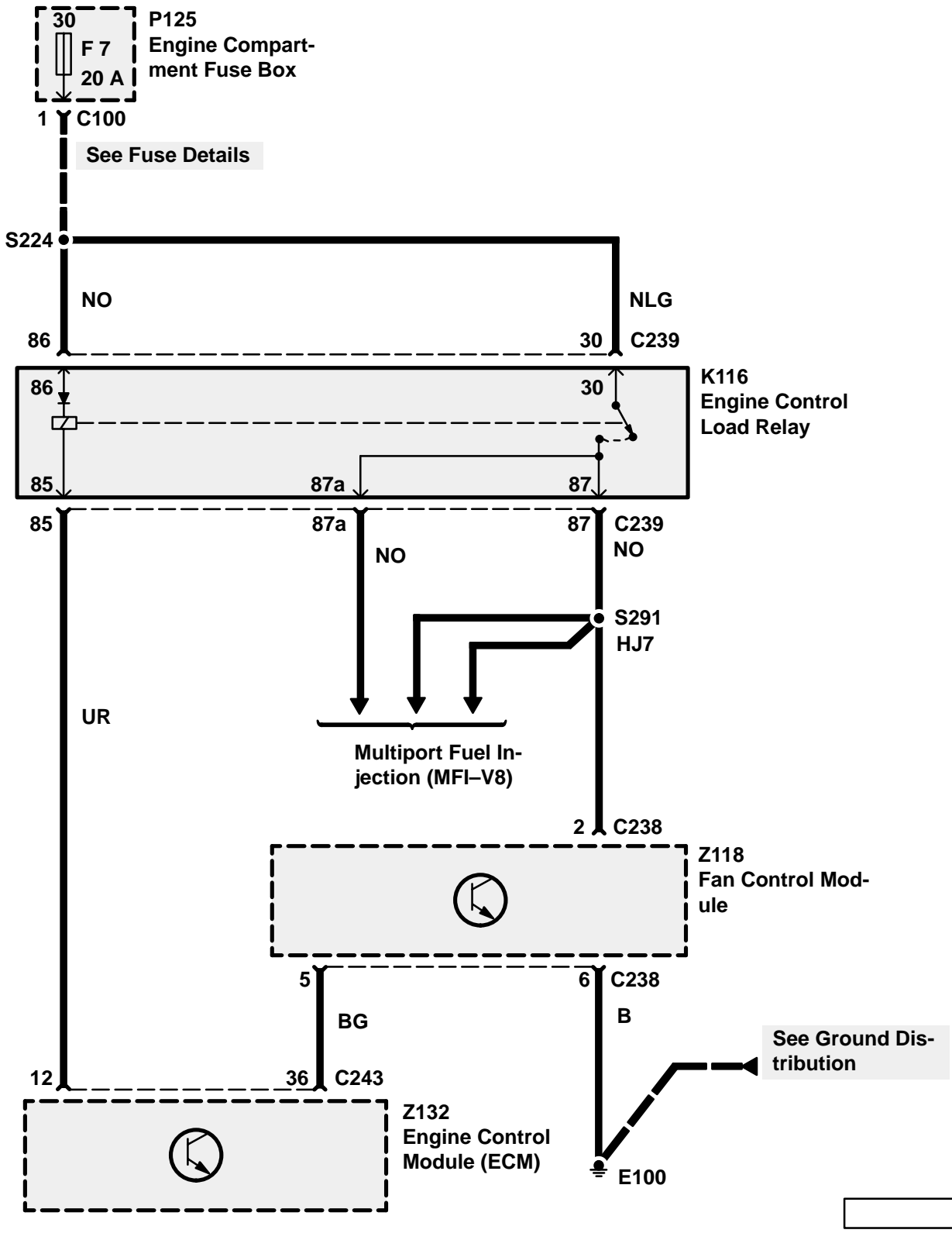
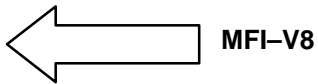
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### Fan Operation with A/C (300Tdi)

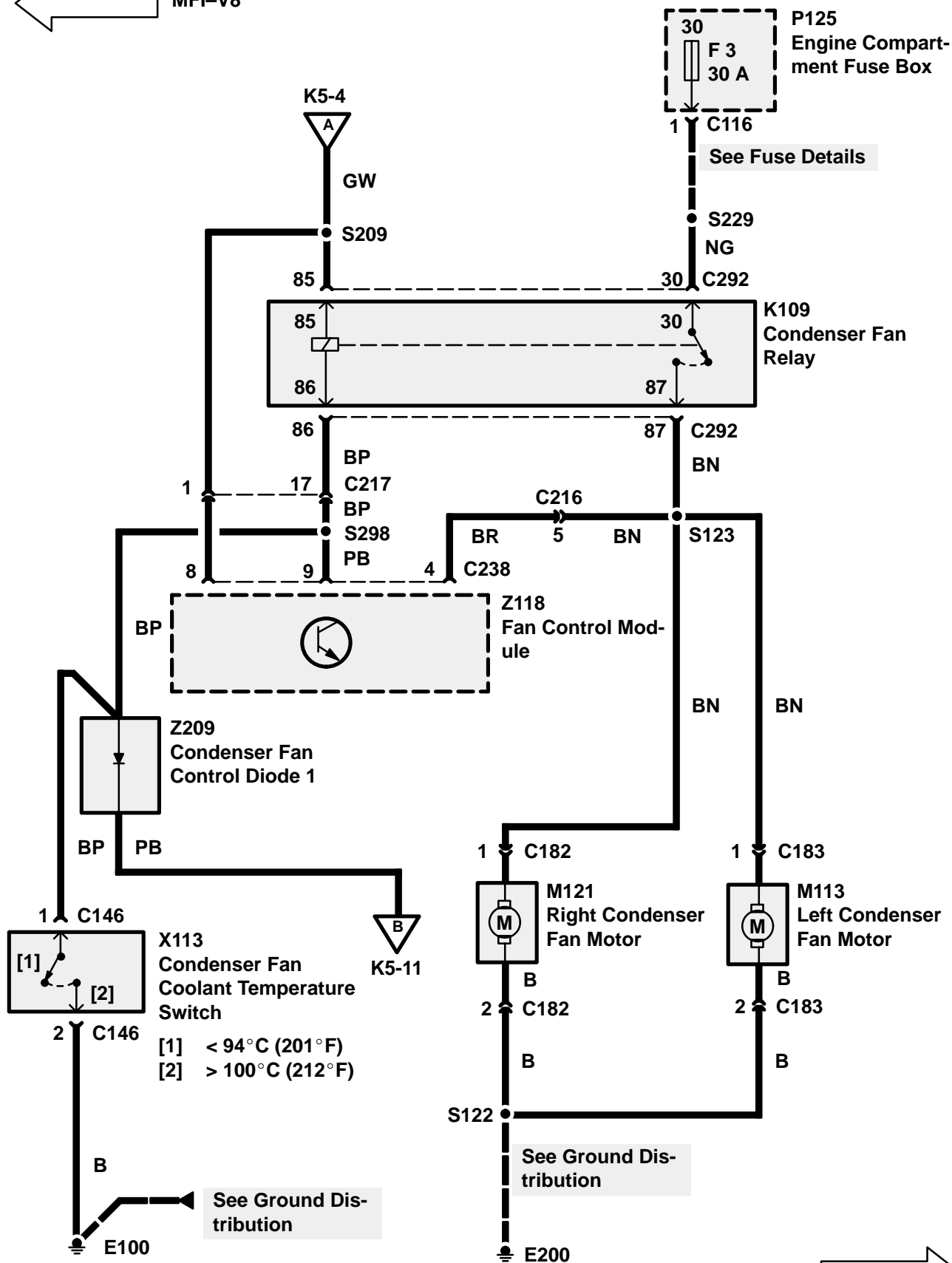
With the Ignition Switch (X134) in position II, battery voltage is applied to the Ignition Load Relay (K127). The relay is energised, applying battery voltage to the Condenser Fan Relay (K109) when the Front A/C Switch (X225) is turned on and the Front Fan Speed Switch (X247) is turned to positions I, II, III, or IV and grounding terminal 86 of the Condenser Fan Relay (K109). The relay energises, applying battery voltage from fuse F3 to the Condenser Fan Motors (M113, M121).





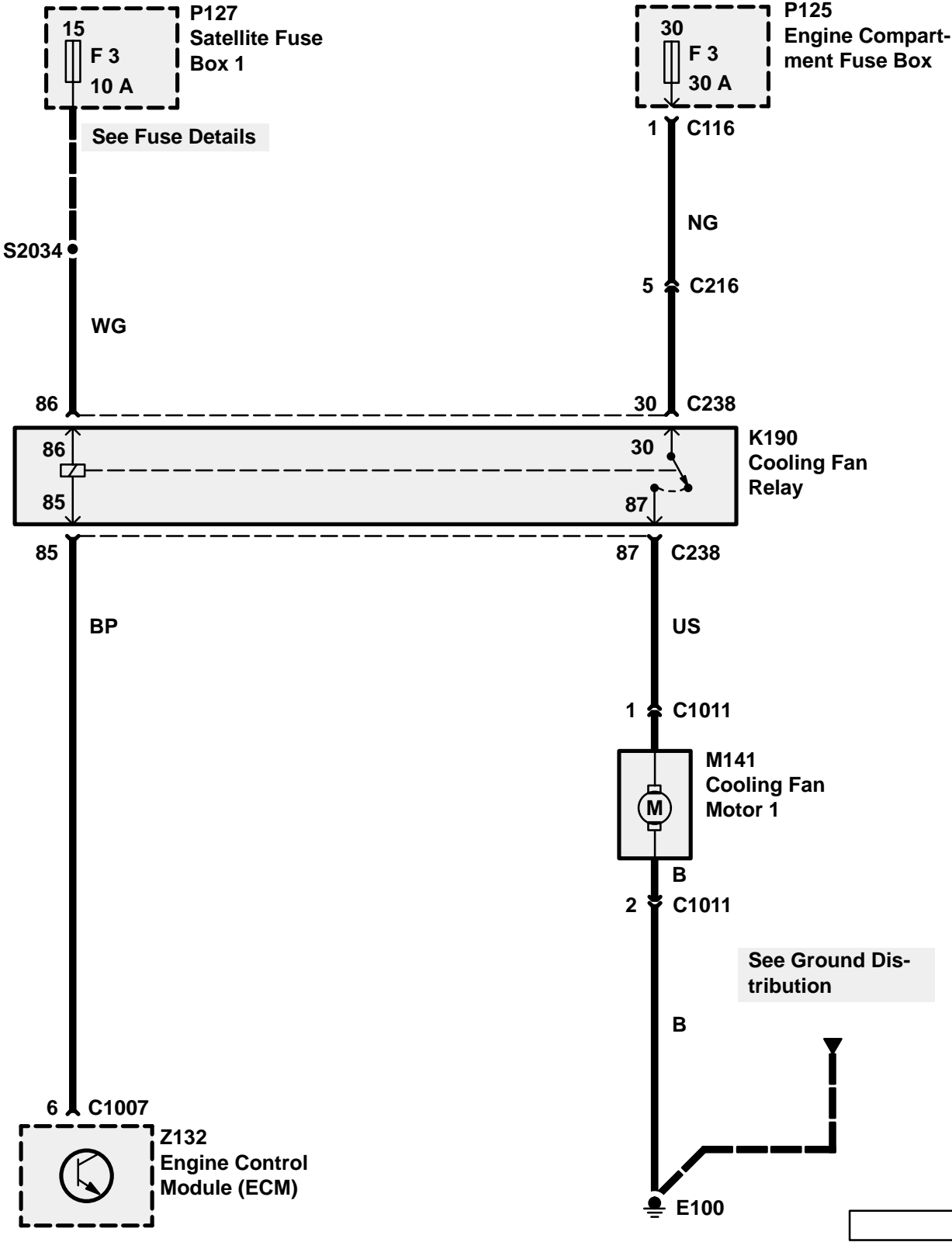


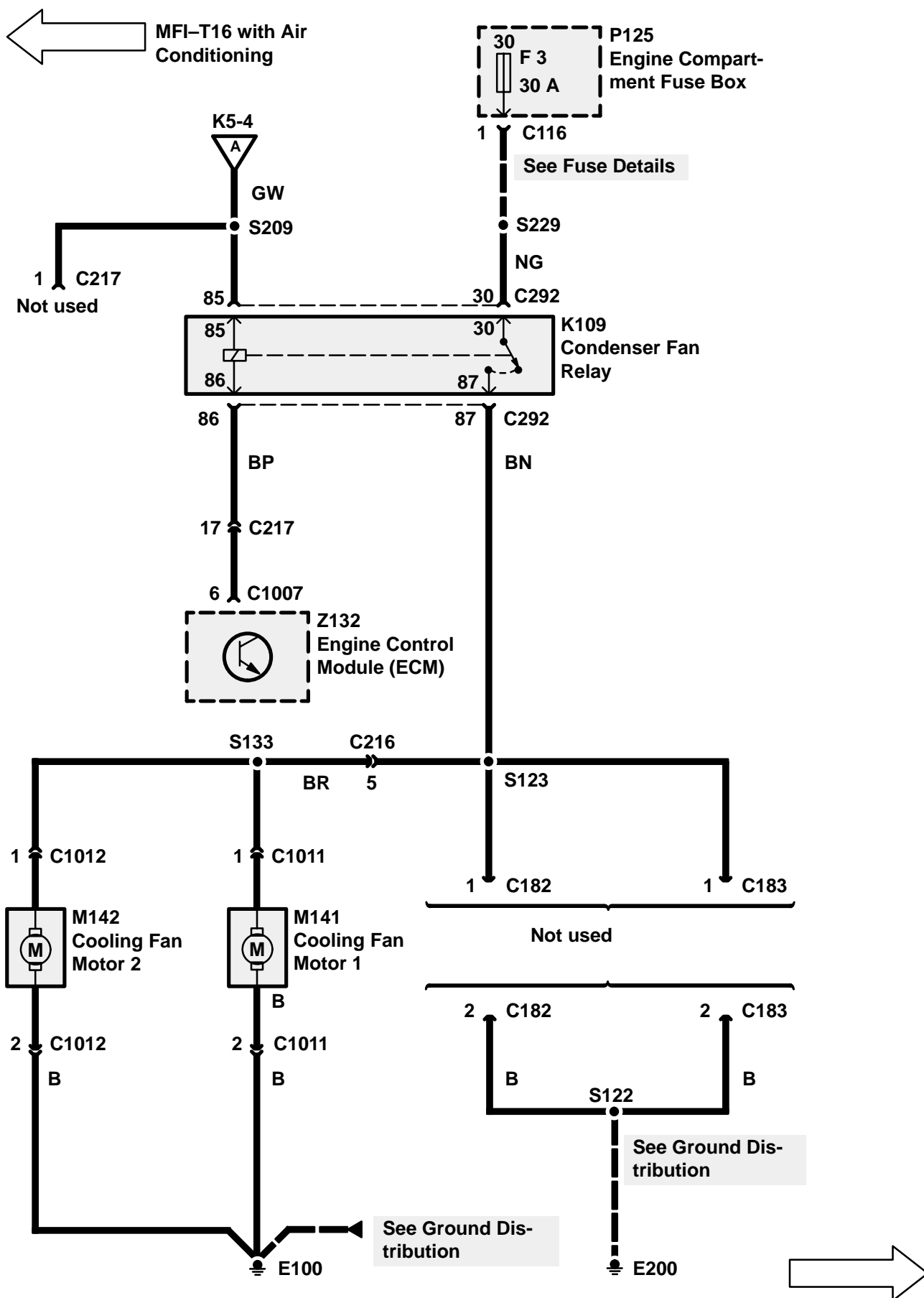
← MFI-V8

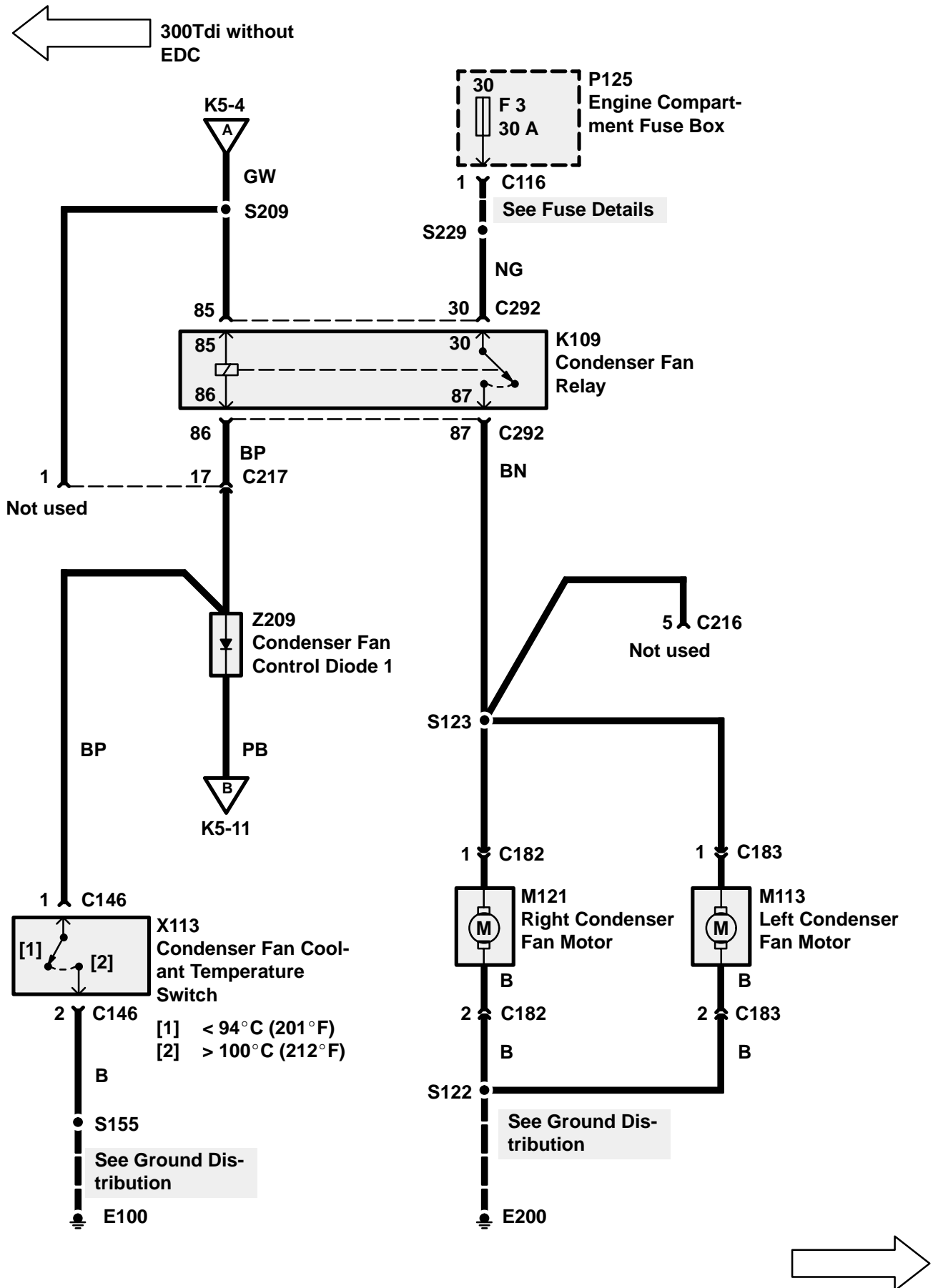


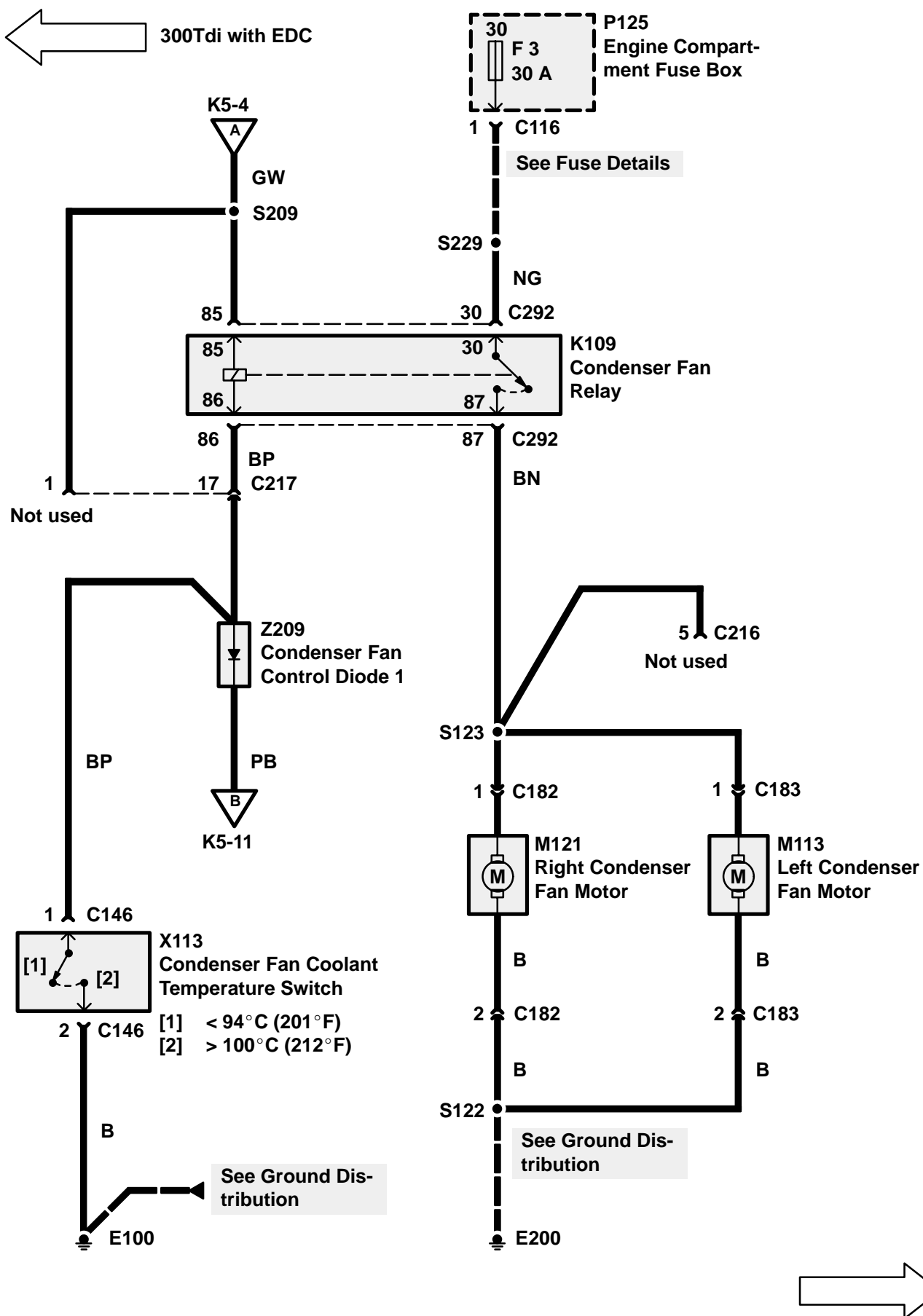
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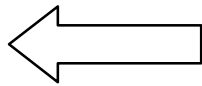
← MFI-T16 without Air Conditioning



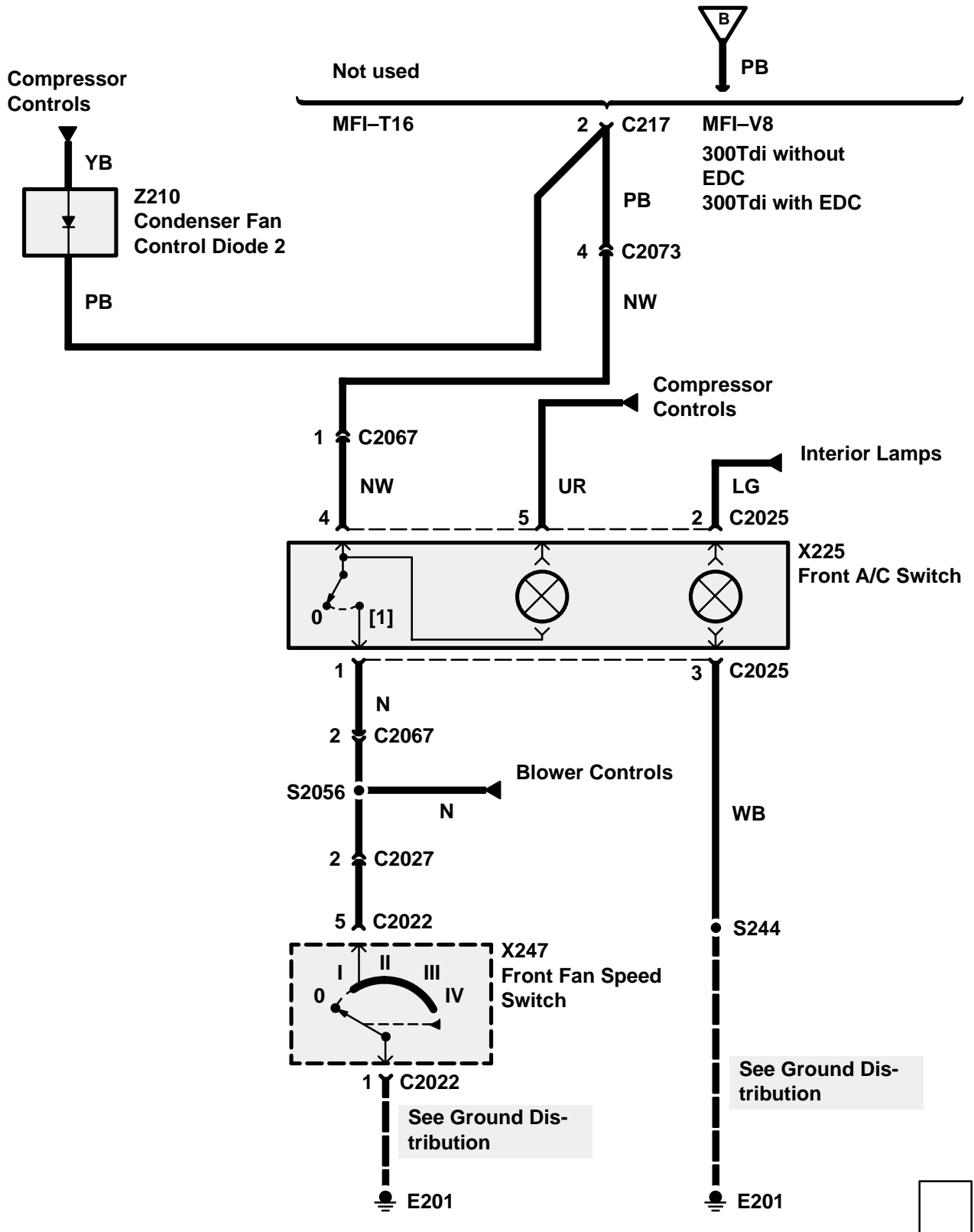








- K5-6 MFI-V8
- K5-9 300Tdi without EDC
- K5-10 300Tdi with EDC





## CIRCUIT OPERATION

Voltage for window lift and sunroof operation is provided to the Window Lift ECU (Z147) from fuses F1 and F2. The Window Lift ECU is grounded through the B wire at ground E201.

### Timeout Feature

Fuse F15 applies voltage to the Window Lift ECU terminal 3 when the ignition switch is on. When the ignition switch is turned off, the absence of voltage at terminal 3 signals the Window Lift ECU to start the timeout feature. When the timeout feature is activated, the Window Lift ECU will allow window and sunroof operation for an additional 45 seconds.

The timeout feature will be cancelled if the driver's door is opened and then closed. The Window Lift ECU monitors the door's position at terminal 9.

### Front Window Operation

When a Front Window Switch is operated, the switch grounds one of four Window Lift ECU input terminals. This signals the Window Lift ECU to apply voltage and ground to the respective window motor. If the front window switch is held in the down position for more than 1/2 second, the express down feature is activated. The Window Lift ECU will operate the window motor until it is completely lowered.

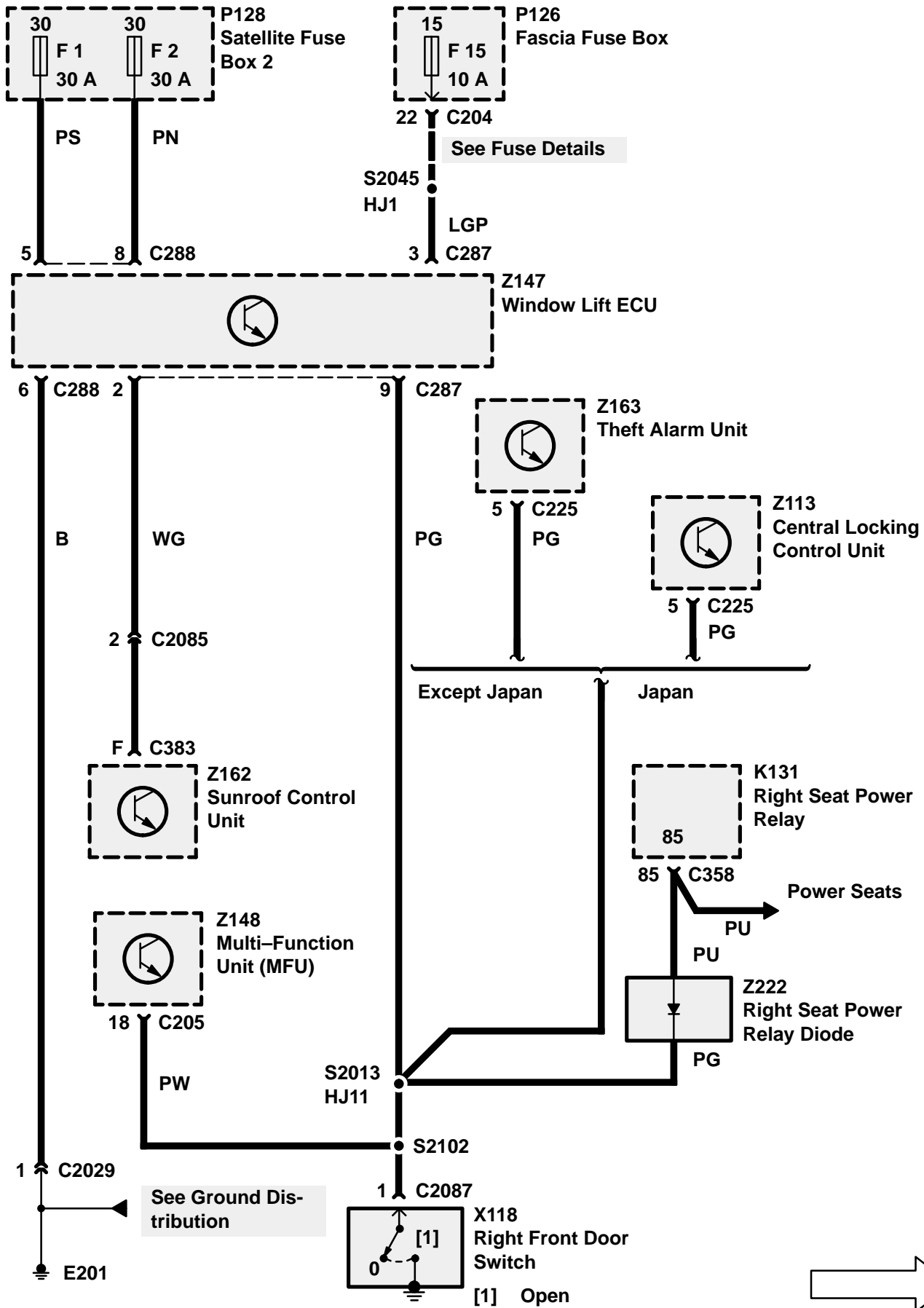
### Rear Window

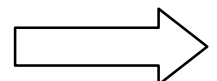
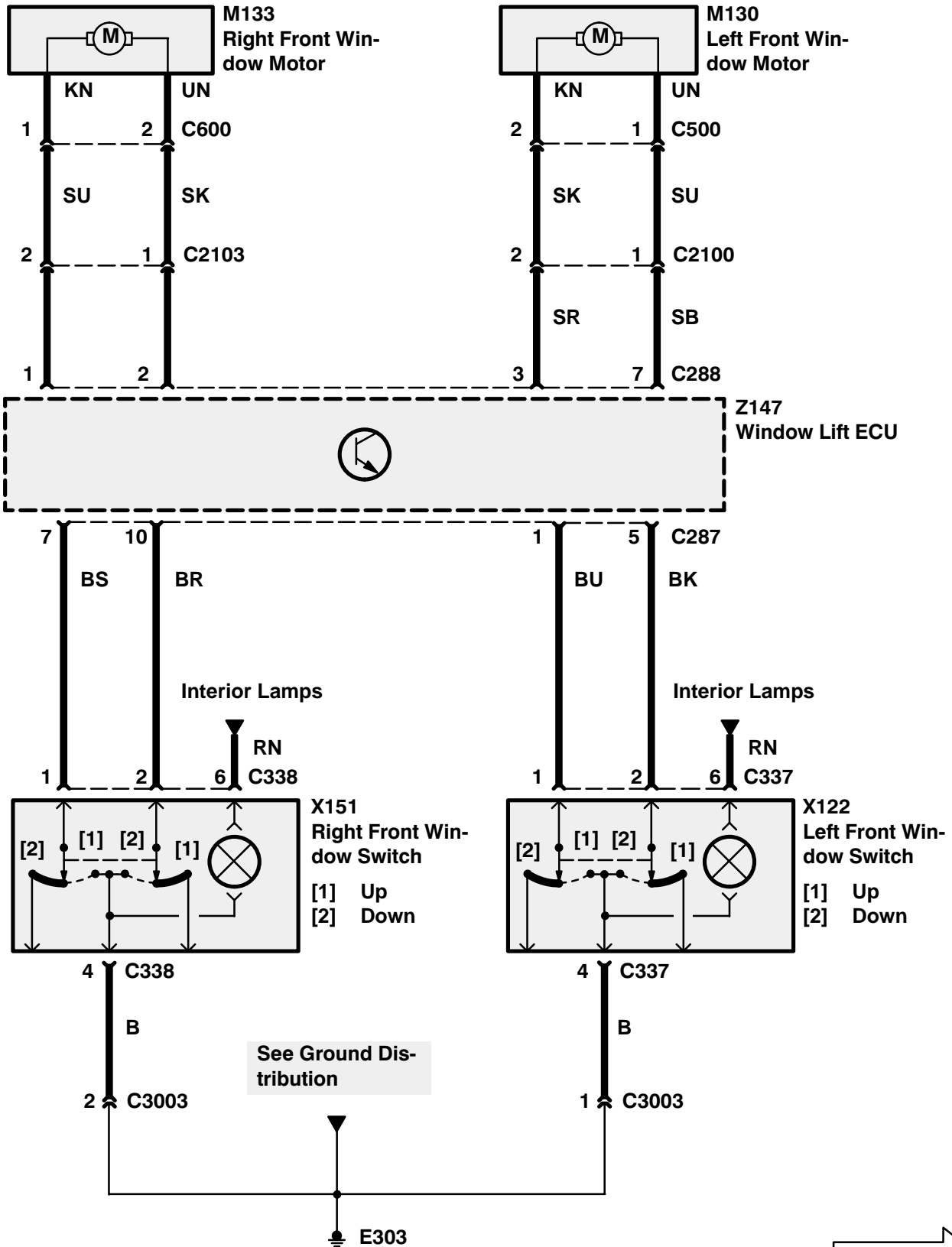
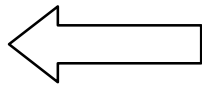
The Window Lift ECU terminal 4 supplies voltage to the Rear Window Console and door switches for rear window operation.

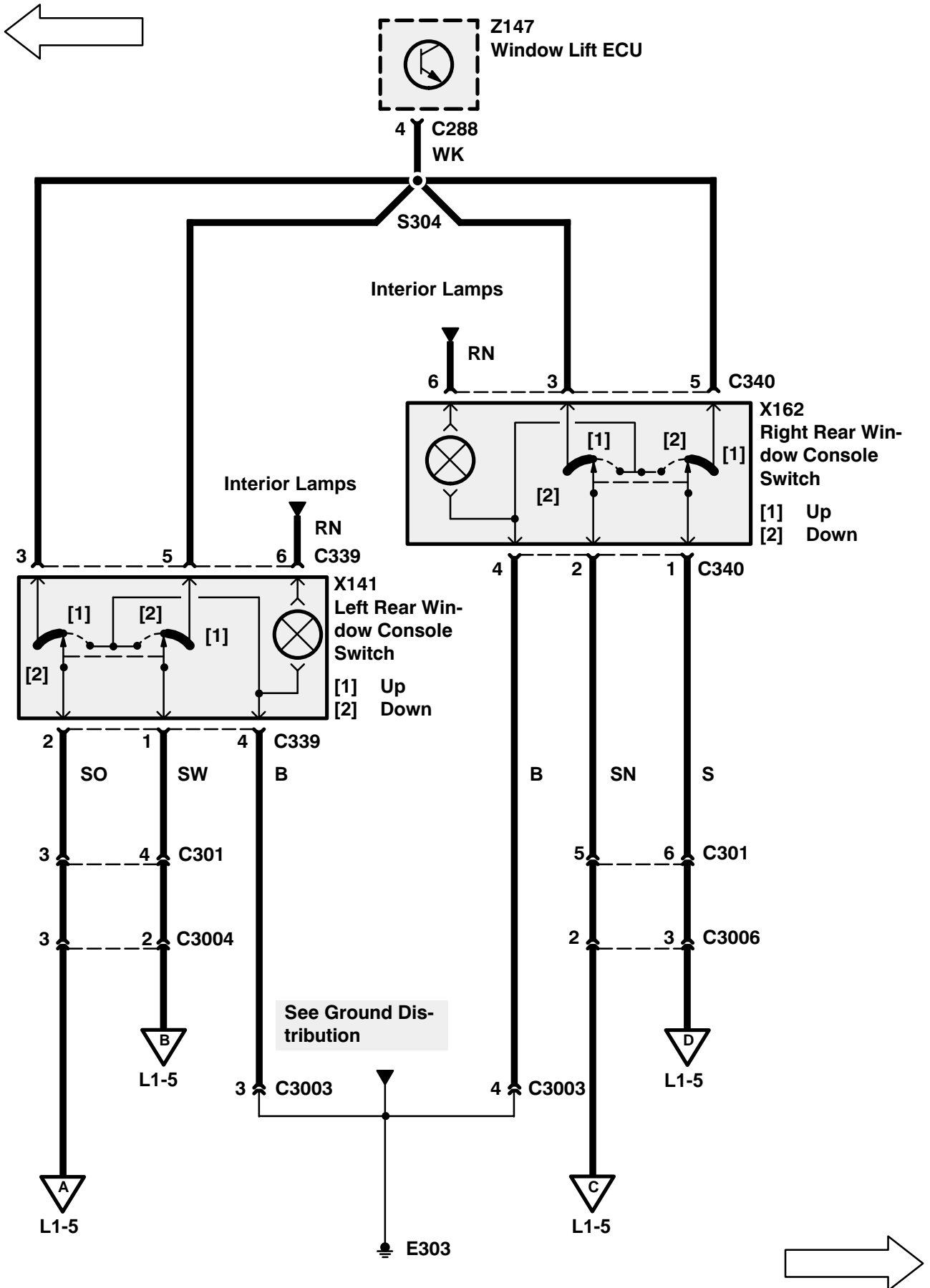
When a window console switch is in the 'DOWN' position, voltage is applied to the window motor through the 'up' switch contacts. The window motors operate because they are grounded through the 'down' contacts of the window console switch. When a switch is in the 'UP' position, the polarity applied to the window motor is reversed, causing the motor to run in the opposite direction and the window to close.

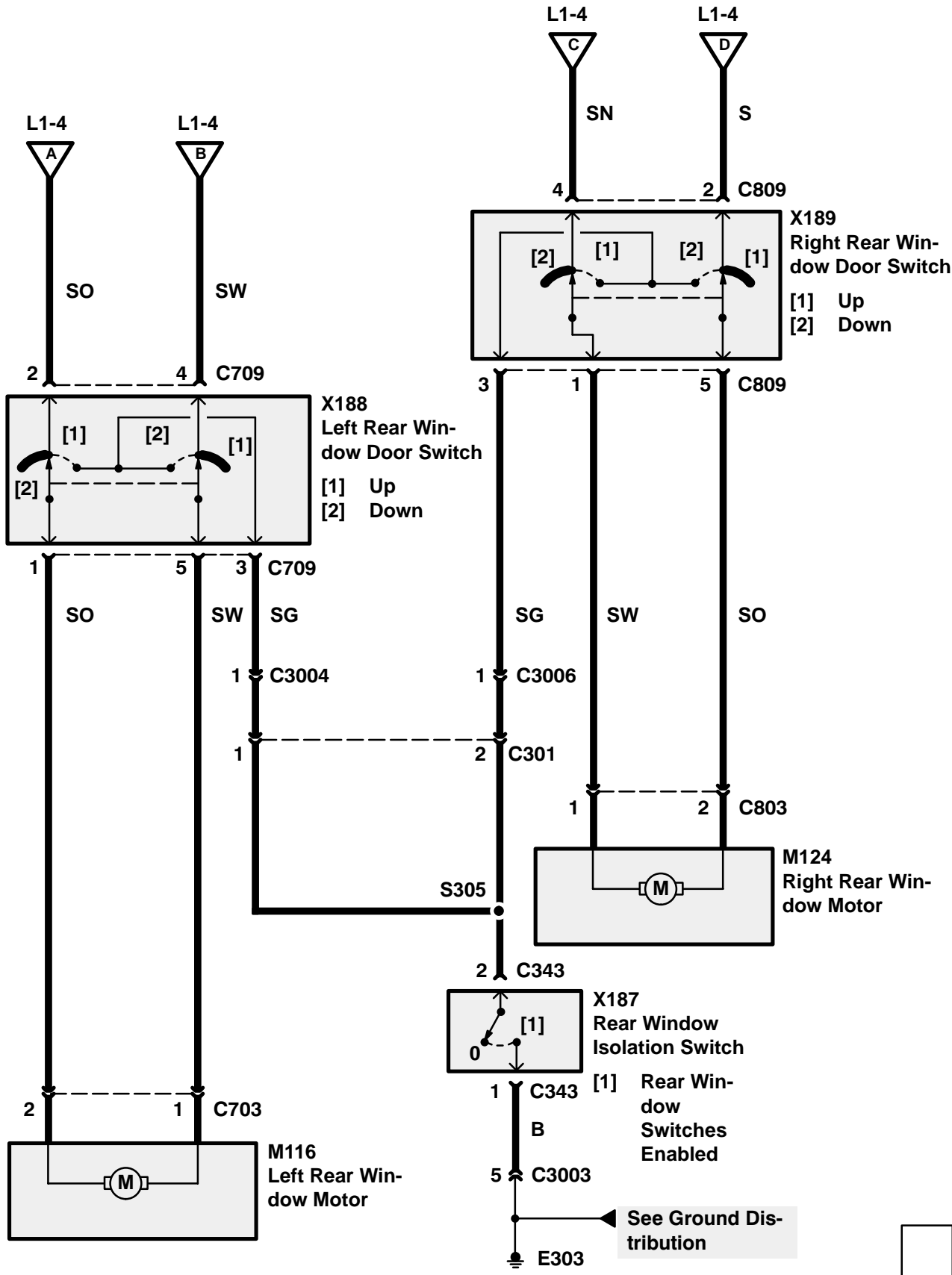
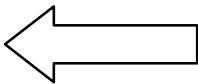
### Rear Window Isolation Switch (X187)

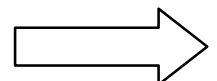
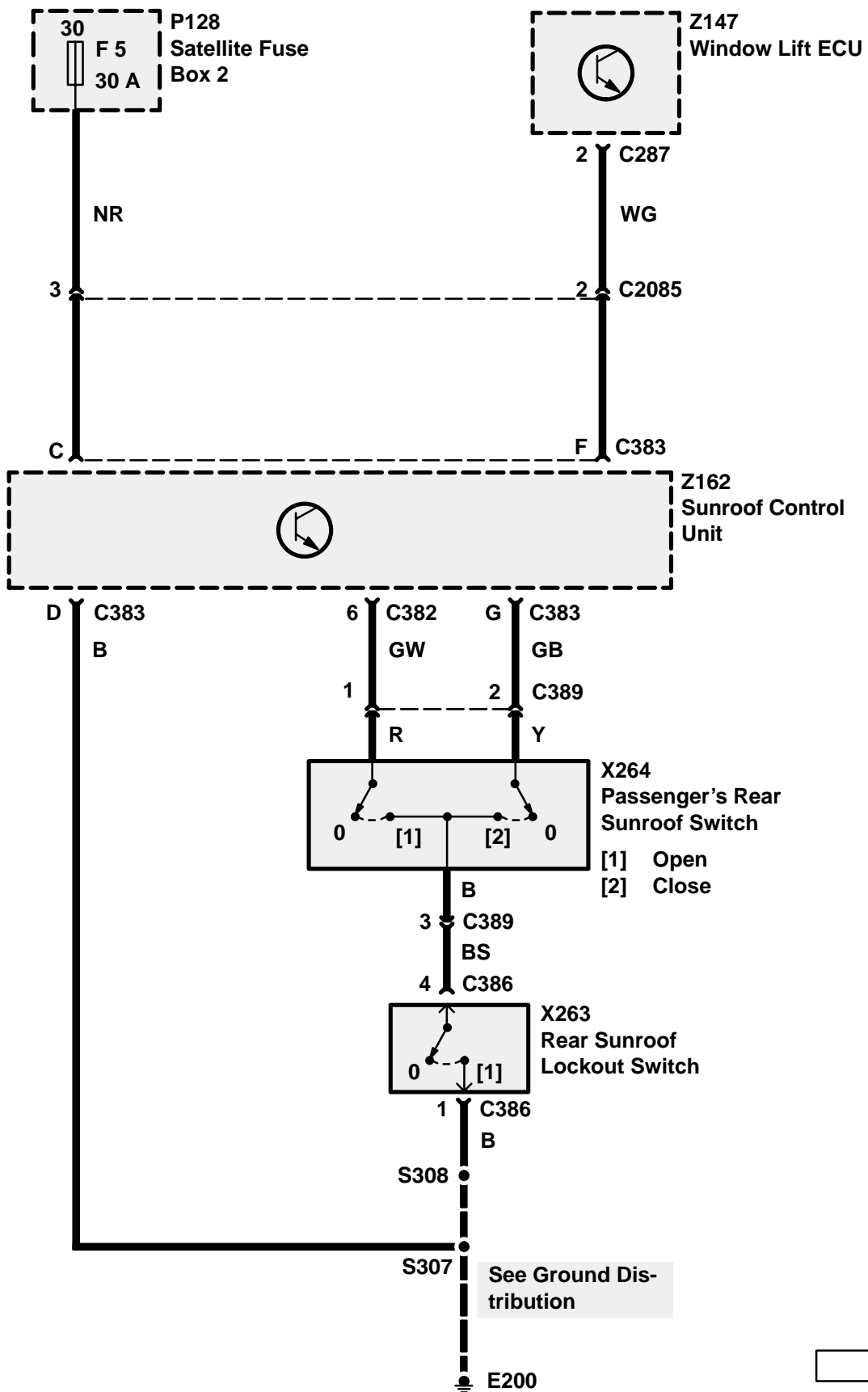
The Rear Window Isolation Switch (X187) is placed in series with the ground supply to the Rear Window Door Switches (X188, X189). If the isolation switch is opened, the ground supply is interrupted, preventing rear window operation using the rear door switches.

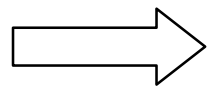
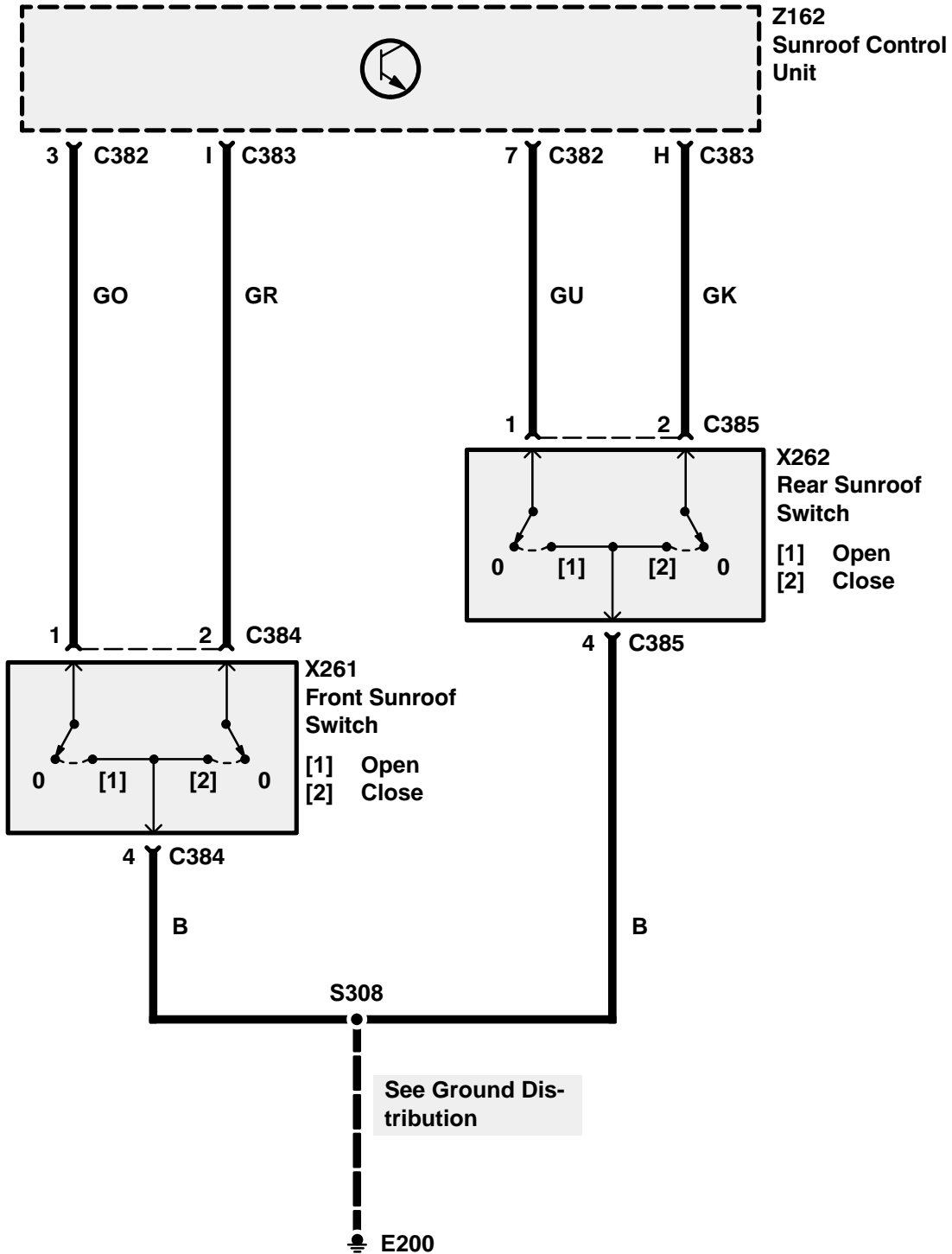
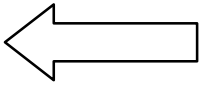


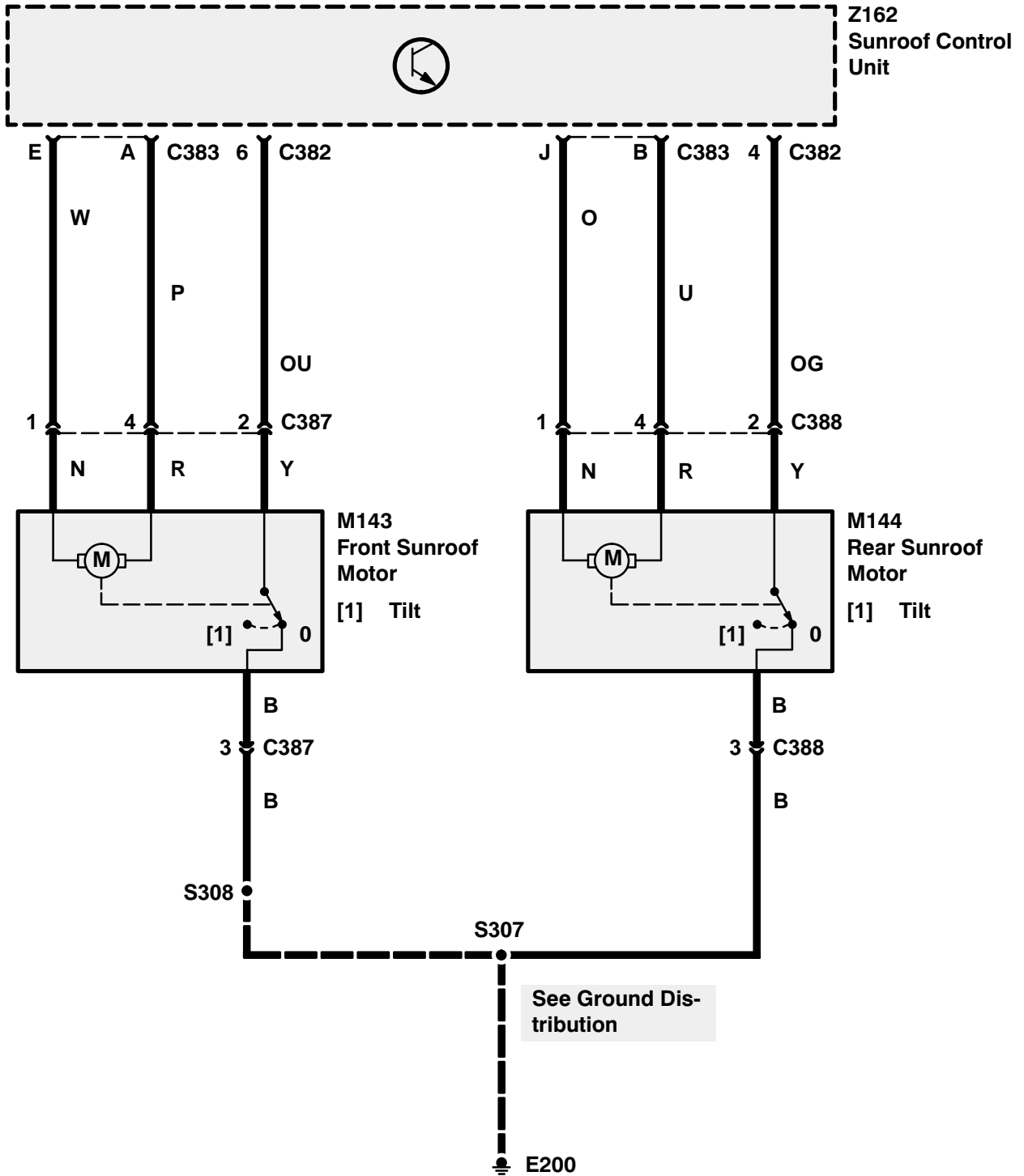
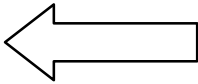














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## CIRCUIT OPERATION

The locking functions on models with the Theft Alarm System are controlled by the Theft Alarm Unit (Z163). Refer to the Theft Alarm System (T1). The locking functions on models without the Theft Alarm System are controlled by the Right Front Door Lock Actuator (M122).

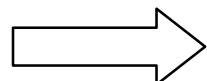
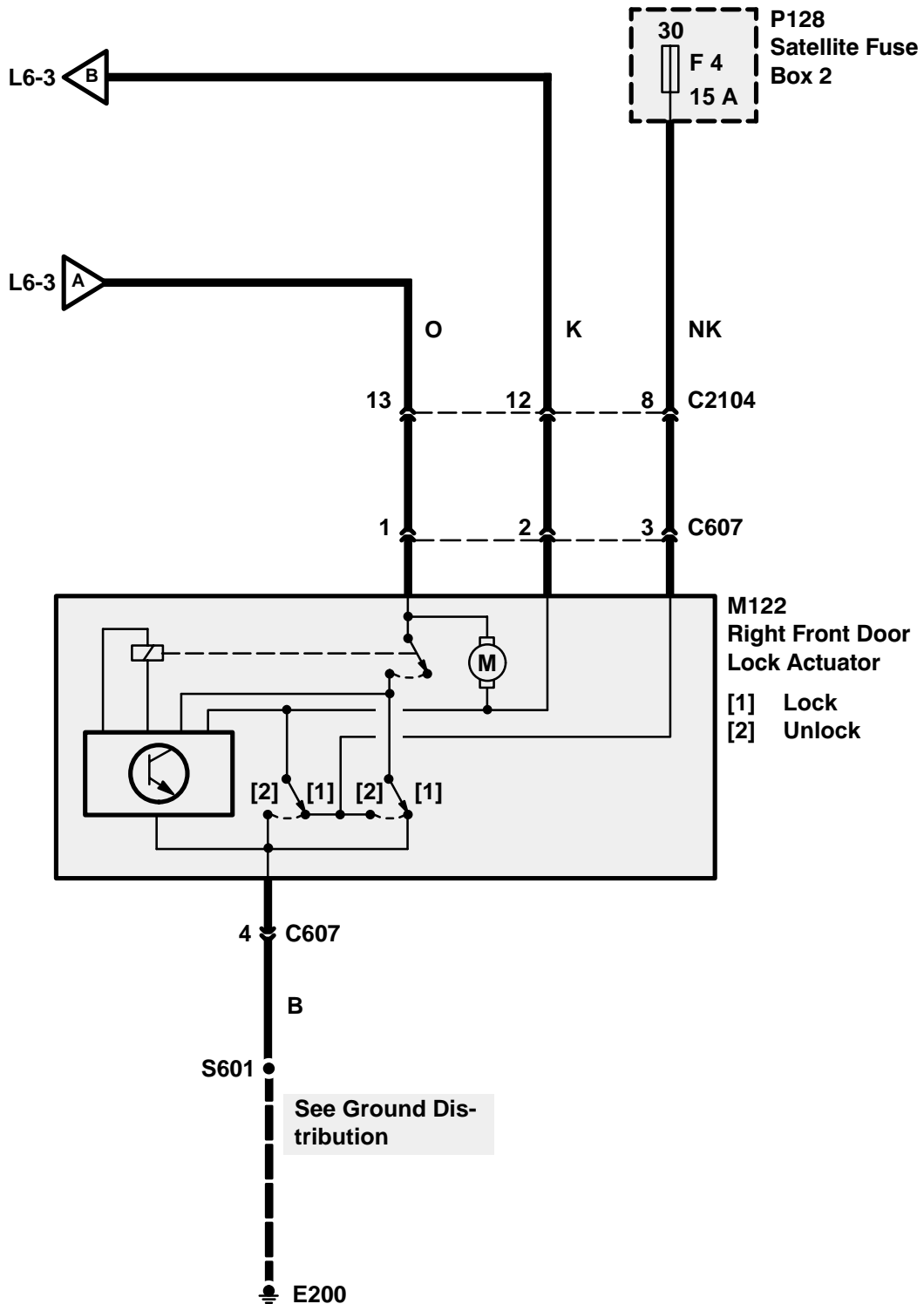
The four doors and the tailgate are locked or unlocked using the right front exterior key or the interior door sill knob. The rear doors can be independently locked or unlocked from the inside by using the appropriate door sill knob. These can be overridden when the lock controls in the right front door are used. The left front door and the rear doors may be locked or unlocked in isolation from the outside using the key or from the inside using the door sill knob.

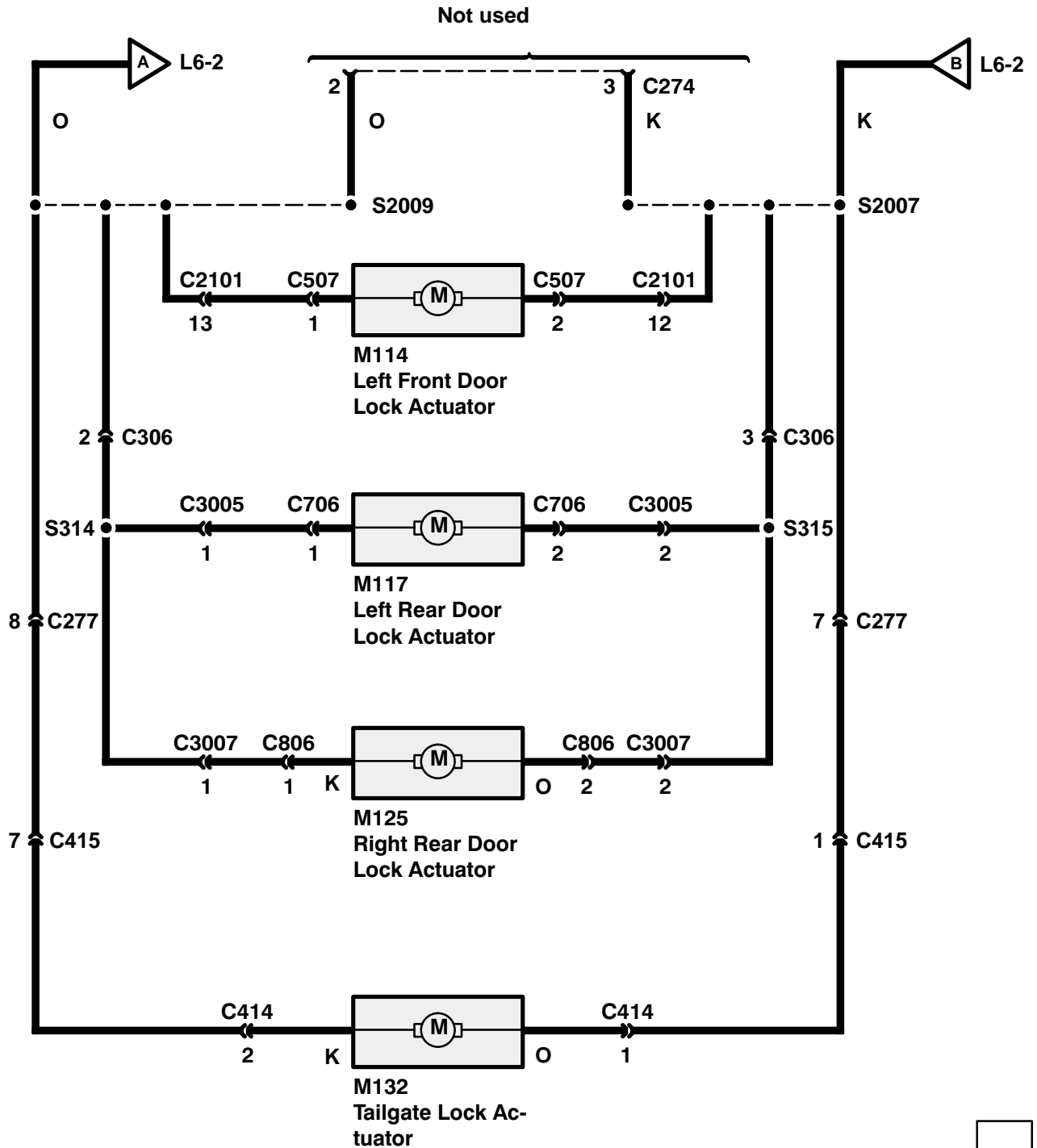
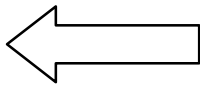
### Lock

When the doors are locked by the right front exterior key or the interior door sill knob, the internal microswitches in the Right Front Door Lock Actuator (M122) move to the "Lock" position. Voltage from fuse F4 is applied to the lock actuators through the K wires. The lock actuators are grounded at E200 through the microswitch contacts and the O wires. The doors and the tailgate now lock. The solid state load sensor/timer ensures that the motors operate only for the time required to lock or unlock the doors and the tailgate.

### Unlock

When the doors are unlocked by the right front exterior key or the interior door sill knob, the internal microswitches in the Right Front Door Lock Actuator (M122) move to the "Unlock" position. Voltage from Fuse F4 is applied to the lock actuators through the O wires. The lock actuators are grounded at E200 through the microswitch contacts and the K wires. Since the polarity of the voltage is now reversed, the doors and the tailgate unlock.





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## CIRCUIT OPERATION

Fuses F1 and F5 of the Satellite Fuse Box 1 (P127) and F4 of the engine compartment Fuse Box (P125) supply voltage to the Central Locking Control Unit (Z113). The control unit is grounded at terminals 10 and 11 of C274 to ground E201.

### Central Locking Control Unit (Z113)

Central locking is controlled by the Central Locking Control Unit (Z113) and may be operated by the key, sill button(s) or handset. The system works on the driver's door only.

NOTE: The central door locking system will shut down for a period of approximately 15 seconds if the Central Locking Control Unit (Z113) determines that the lock actuators could be overheating.

### Inputs

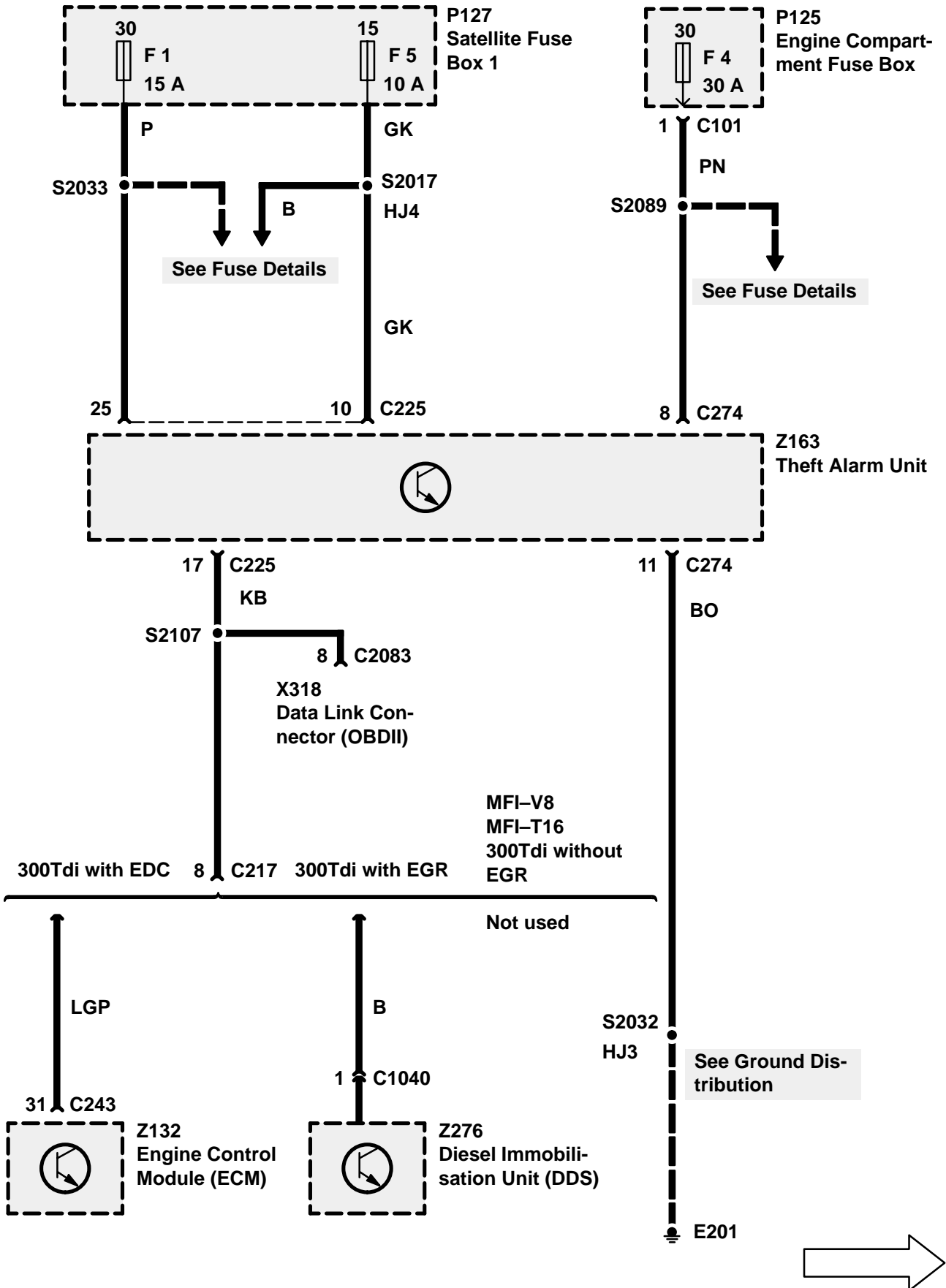
The Central Locking Control Unit (Z113) monitors the position of the front door locks through an input switch which is part of the right Front Door Lock Actuator (M122). When the control unit sees the input switch change position, the control unit responds by locking or unlocking the doors and the tailgate.

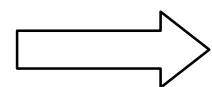
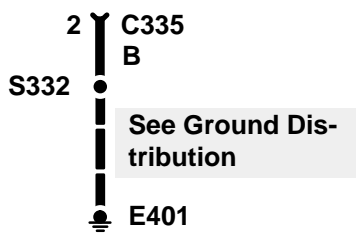
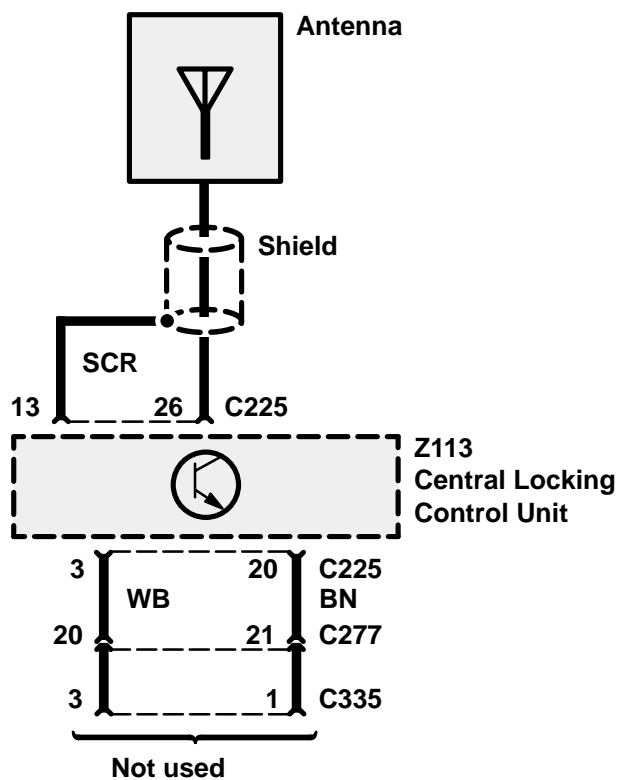
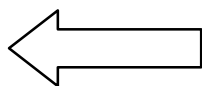
### Lock

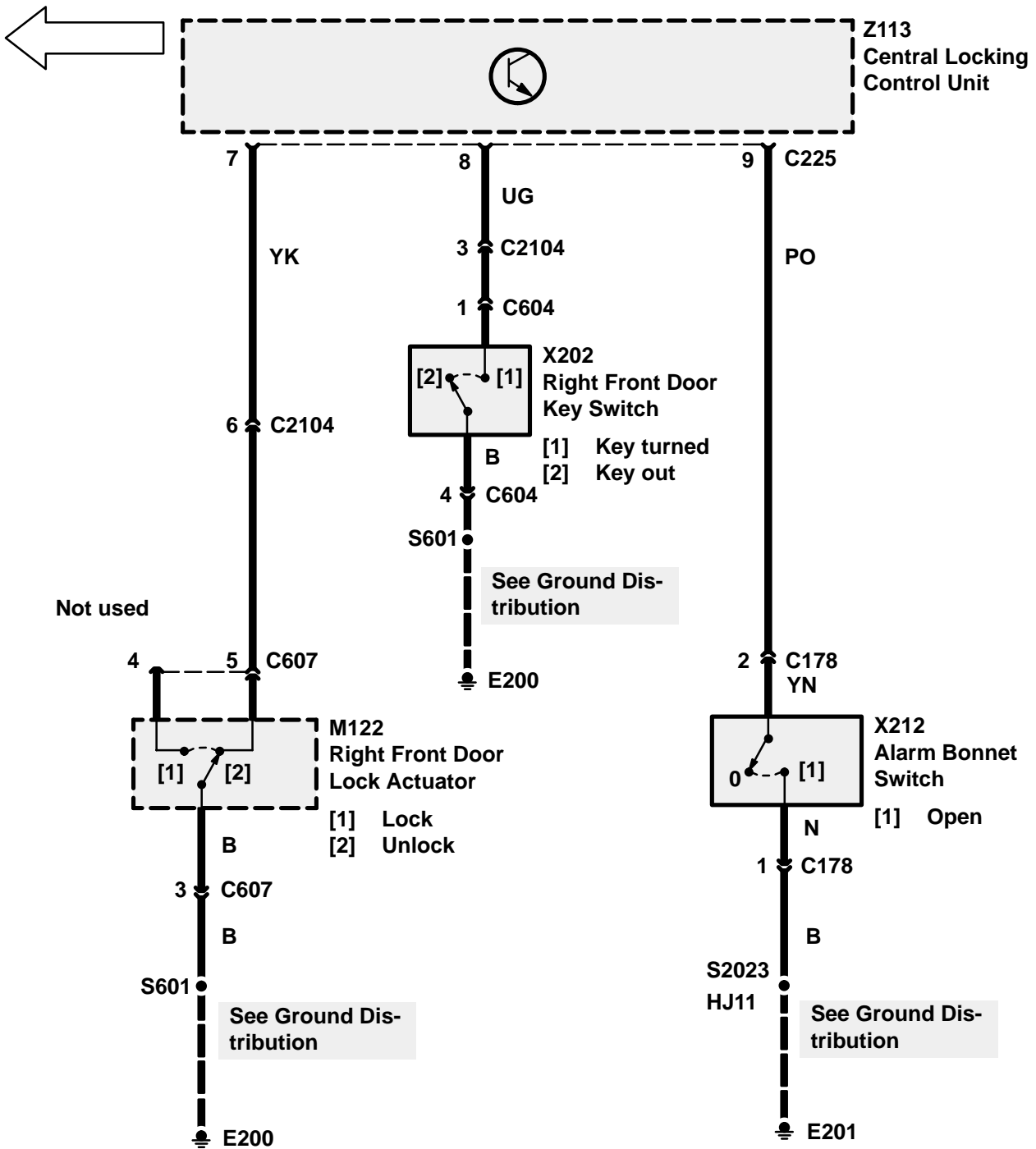
The Central Locking Control Unit (Z113) locks the doors and the tailgate by momentarily applying battery voltage to the actuators through the K wire. The lock actuators are grounded by the Central Locking Control Unit (Z113) through the O wire. The actuators now move to the locked position.

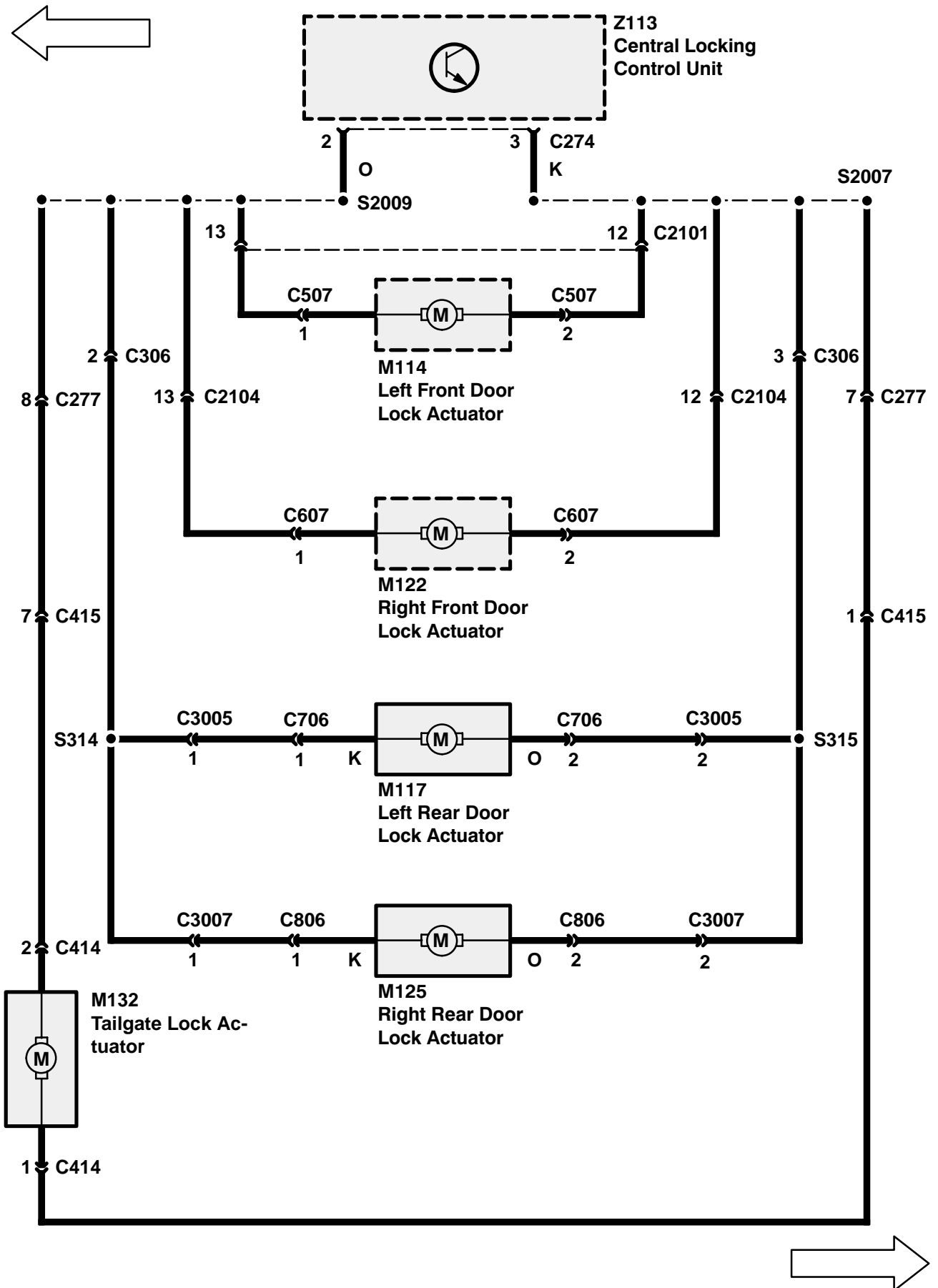
### Unlock

To unlock the doors and the tailgate the Central Locking Control Unit (Z113) momentarily applies battery voltage to the actuators through the O wire. The actuators are grounded by the Central Locking Control Unit (Z113) through the K wire. The lock actuators now unlock.

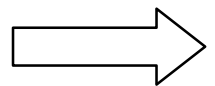
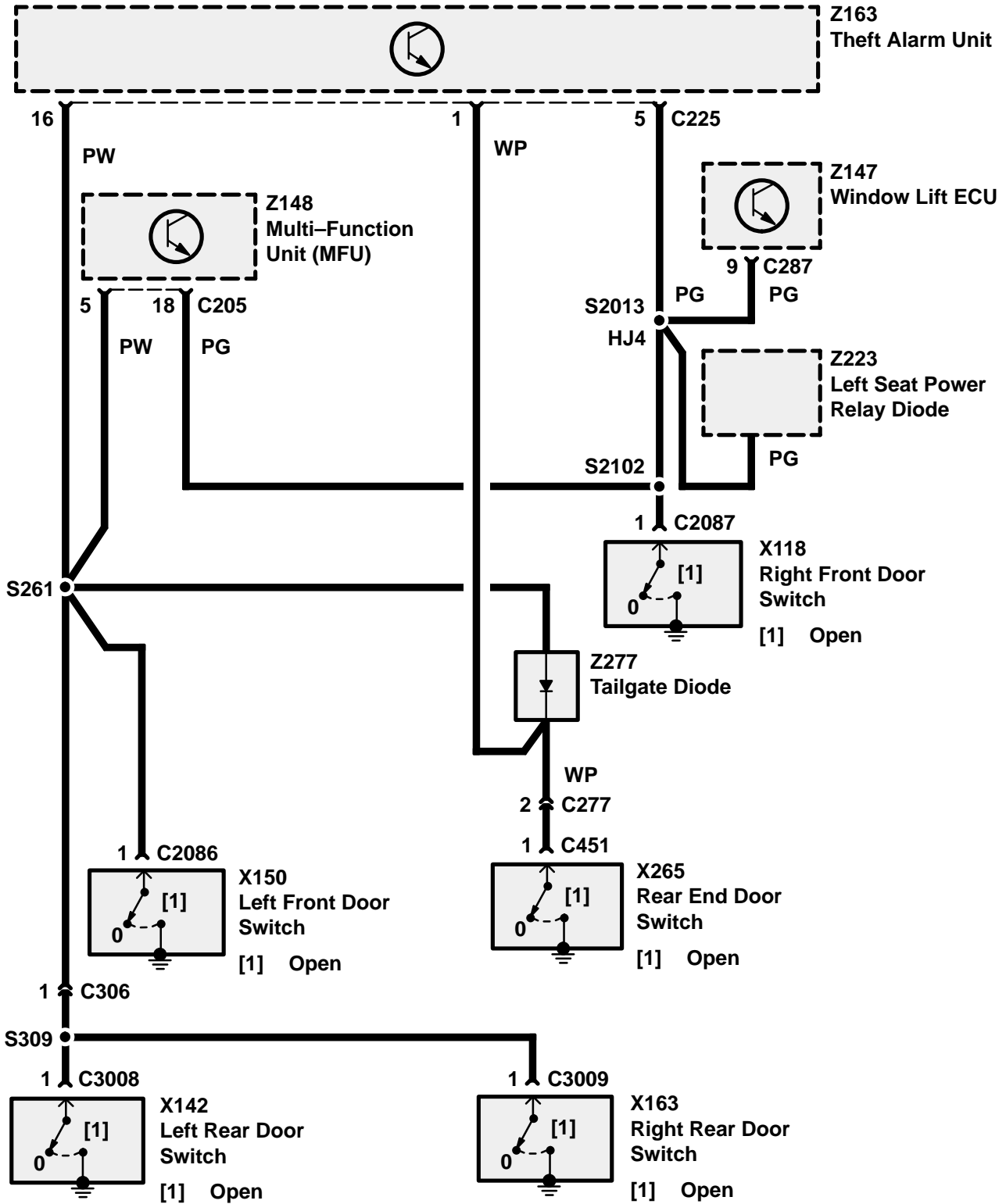
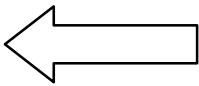


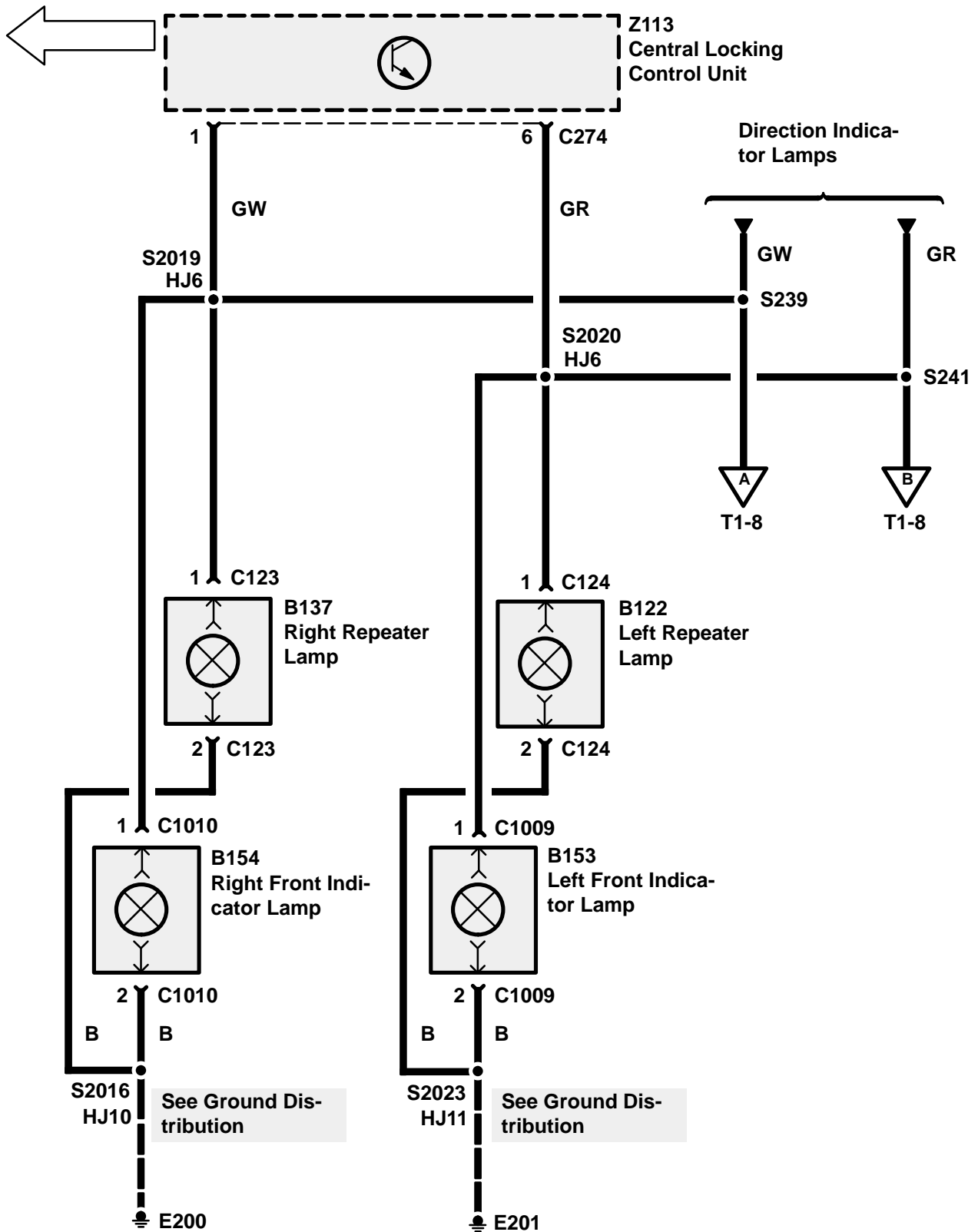


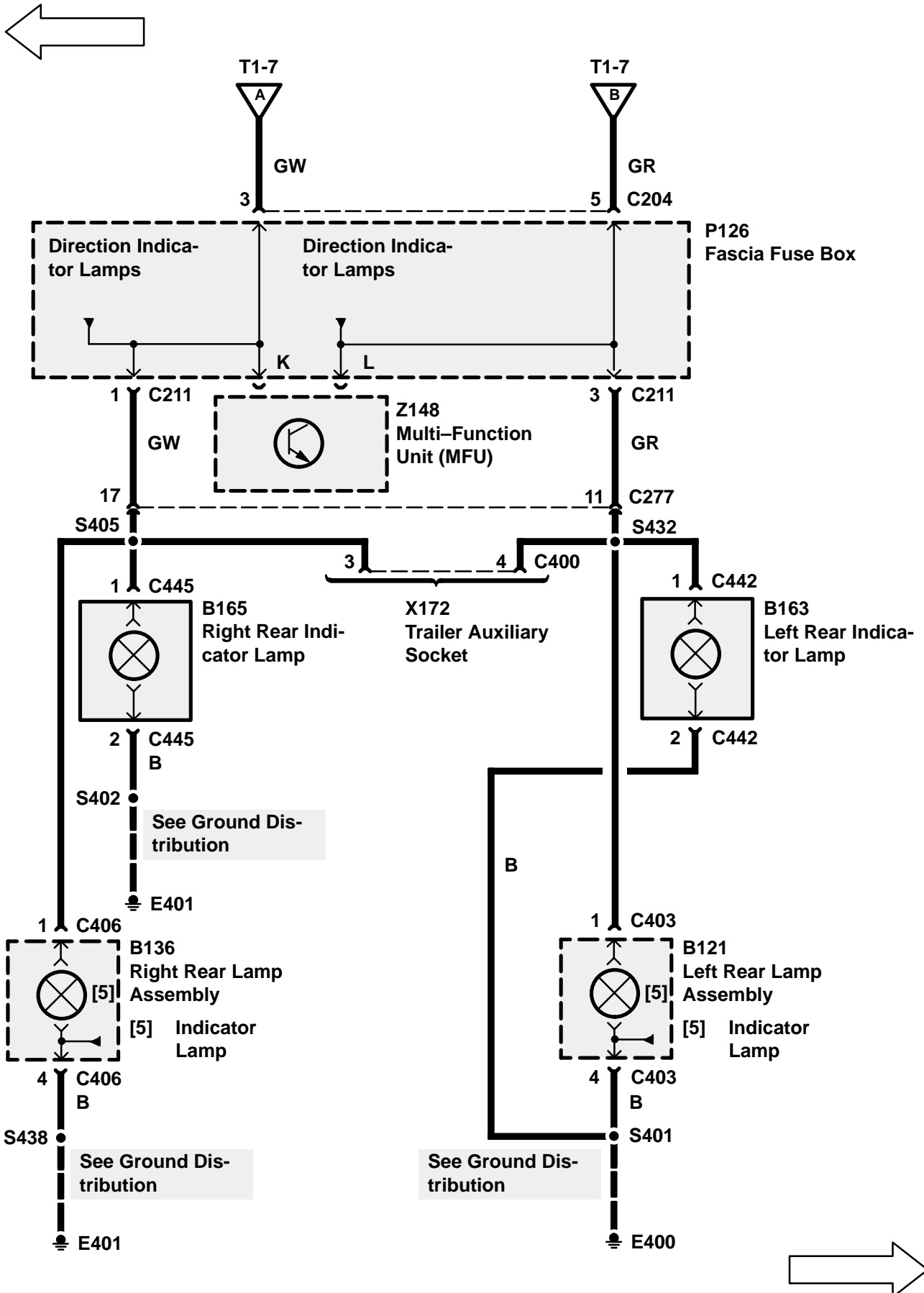


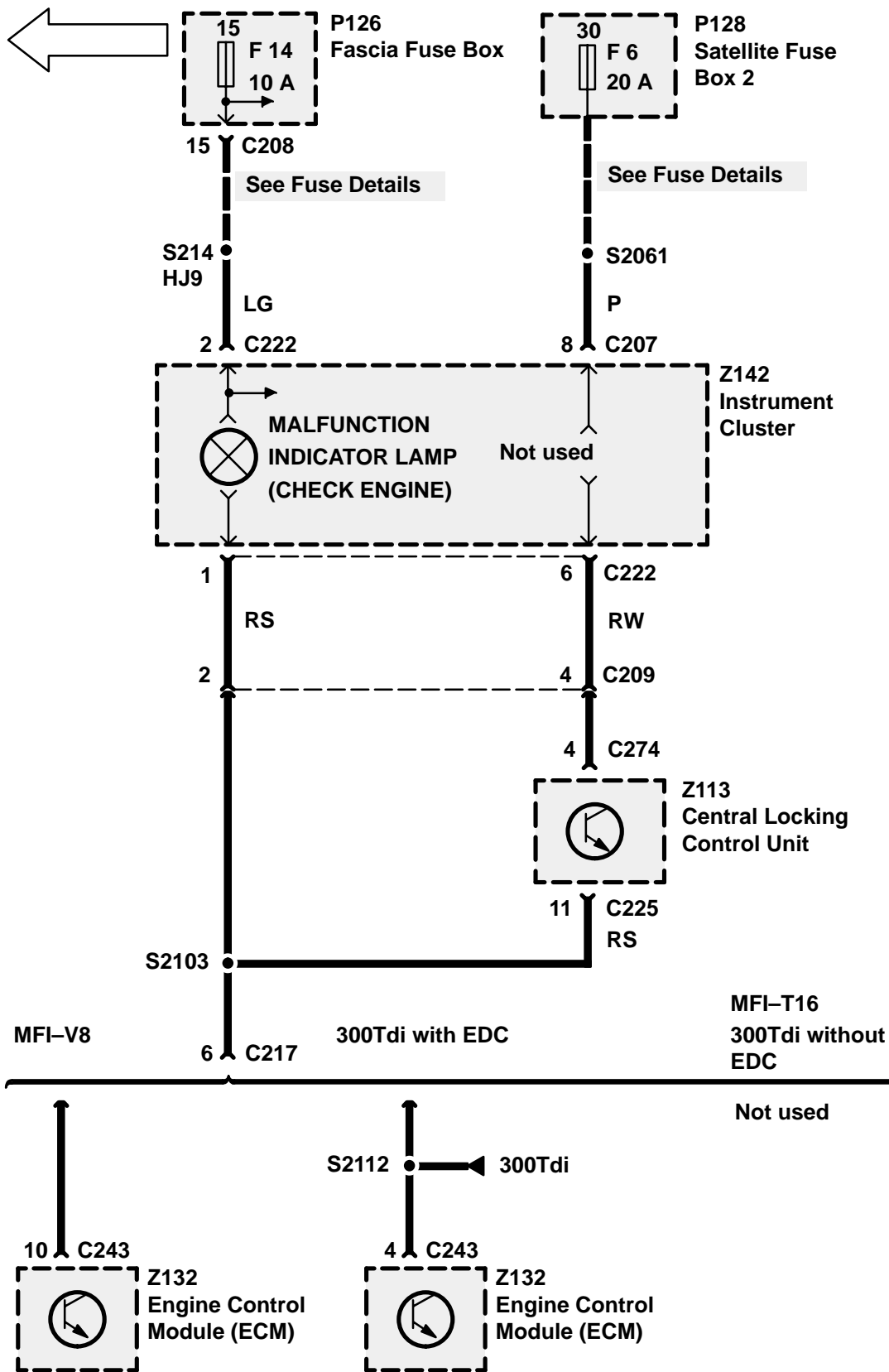


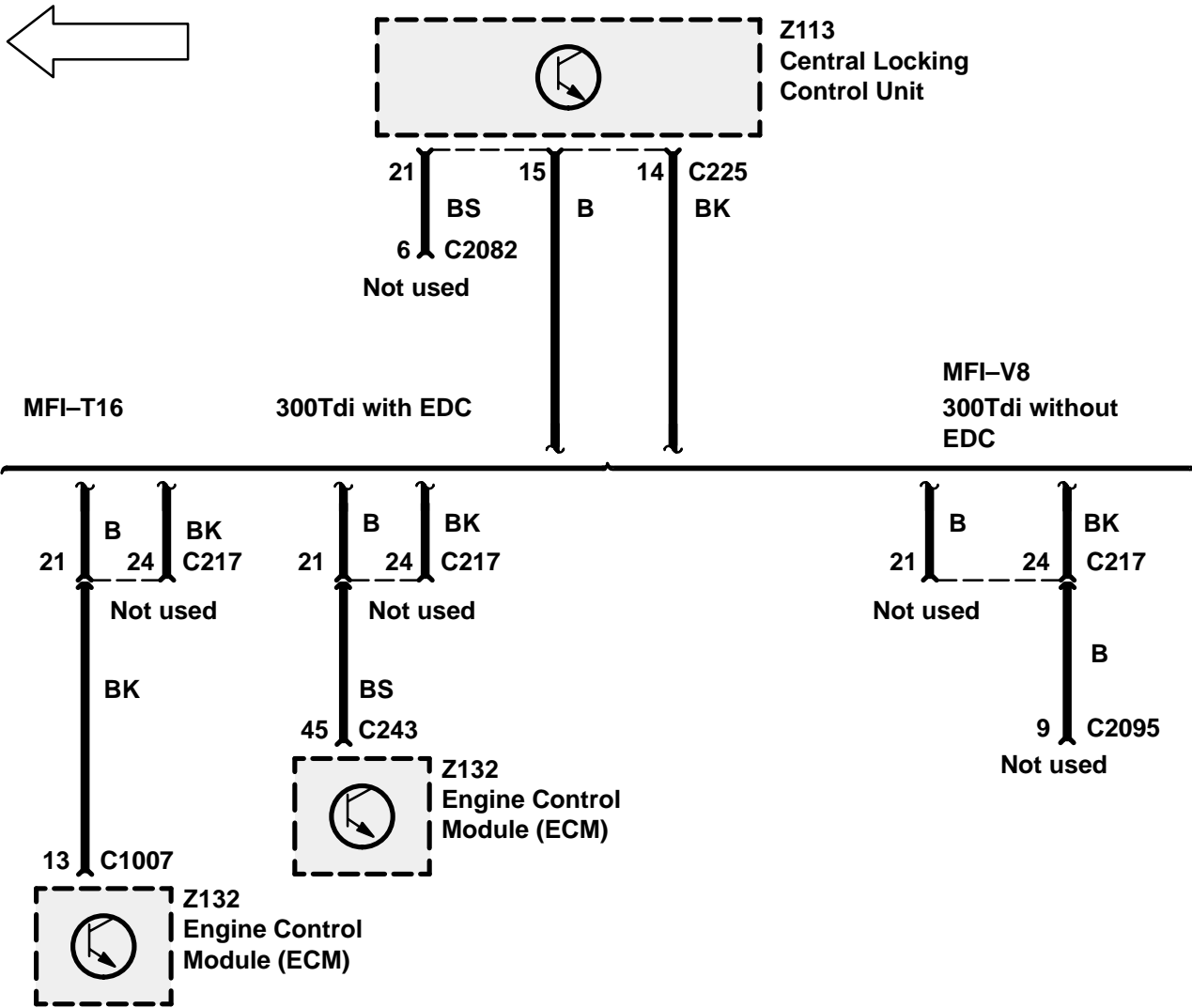












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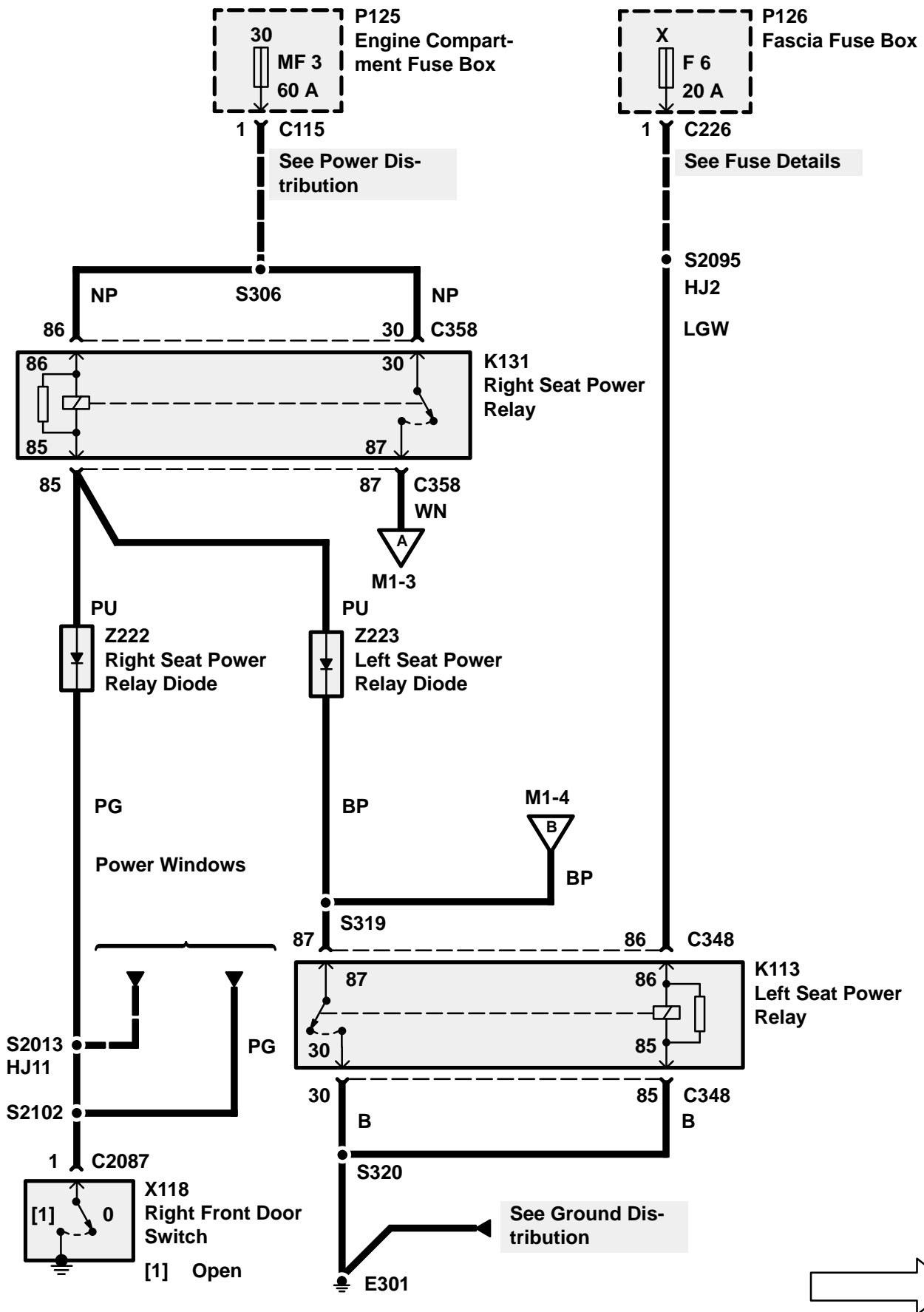
## CIRCUIT OPERATION

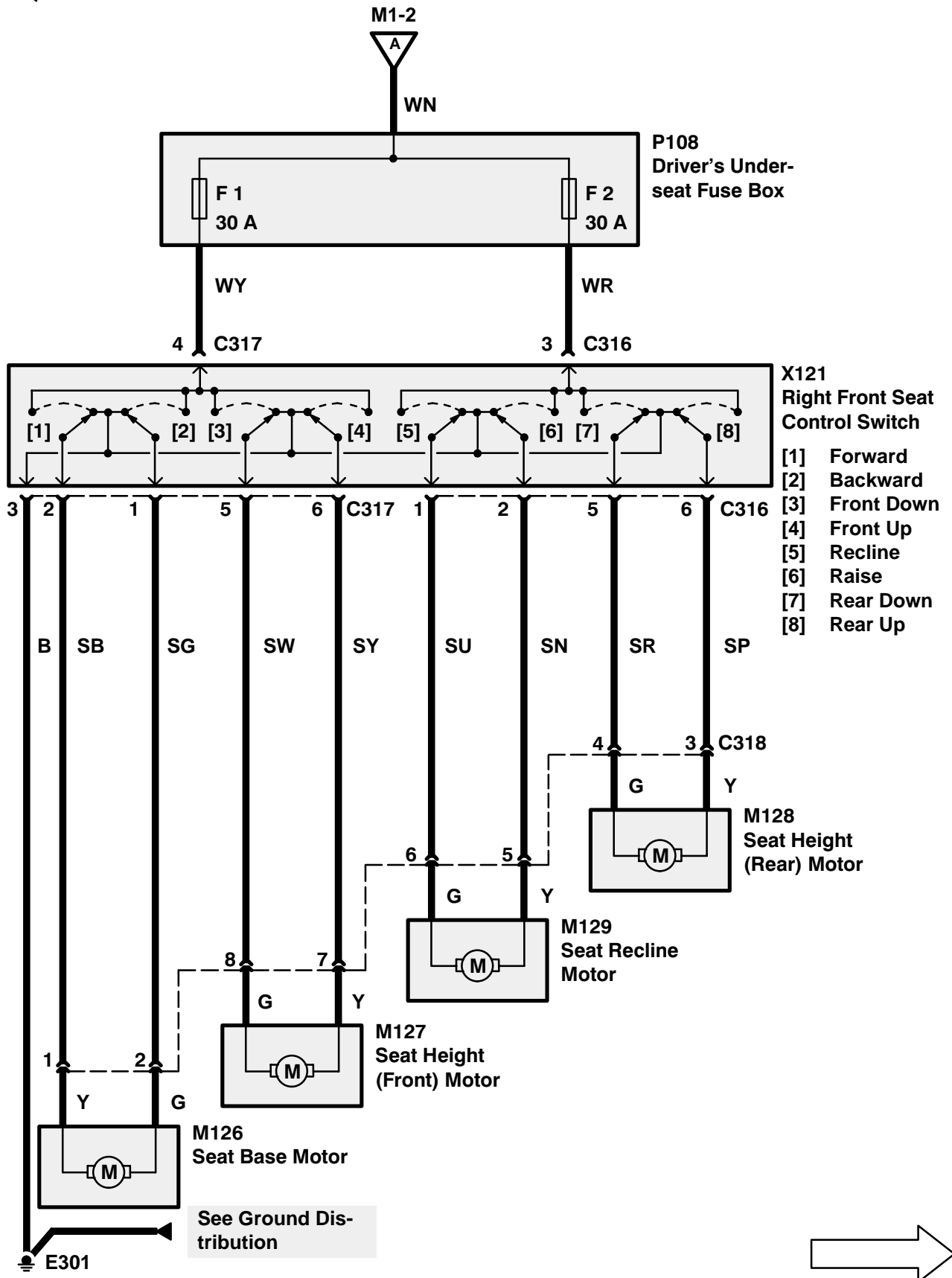
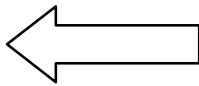
### Driver Seat

When the Ignition Switch (X134) is in position I or II, or the right front door is open, the Right Seat Power Relay (K131) is energised. Battery voltage is then applied to the Right Front Seat Control Switch (X121) through the closed relay contacts and the Driver's Underseat Fuse Box (P108). Ground is applied to the Right Front Seat Control Switch (X121) at all times. The Right Front Seat Control Switch (X121) controls 4 seat control motors via 8 switches. When each switch is moved to operate its corresponding motor, one seat switch applies ground while the other applies battery voltage to the respective seat motor. The motor turns to adjust the seat in the requested direction.

### Passenger Seat

Battery voltage is applied to the Left Front Seat Control Switch (X152) at all times. When the Ignition Switch (X134) is in position I or II, the Left Seat Power Relay (K113) is energised, applying ground to the Left Front Seat Control Switch (X152). The Left Front Seat Control Switch (X152) controls 4 seat control motors via 8 switches. When each switch is moved to operate its corresponding motor, one seat switch applies ground while the other applies battery voltage to the respective seat motor. The motor turns to adjust the seat in the requested direction.

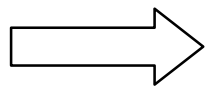




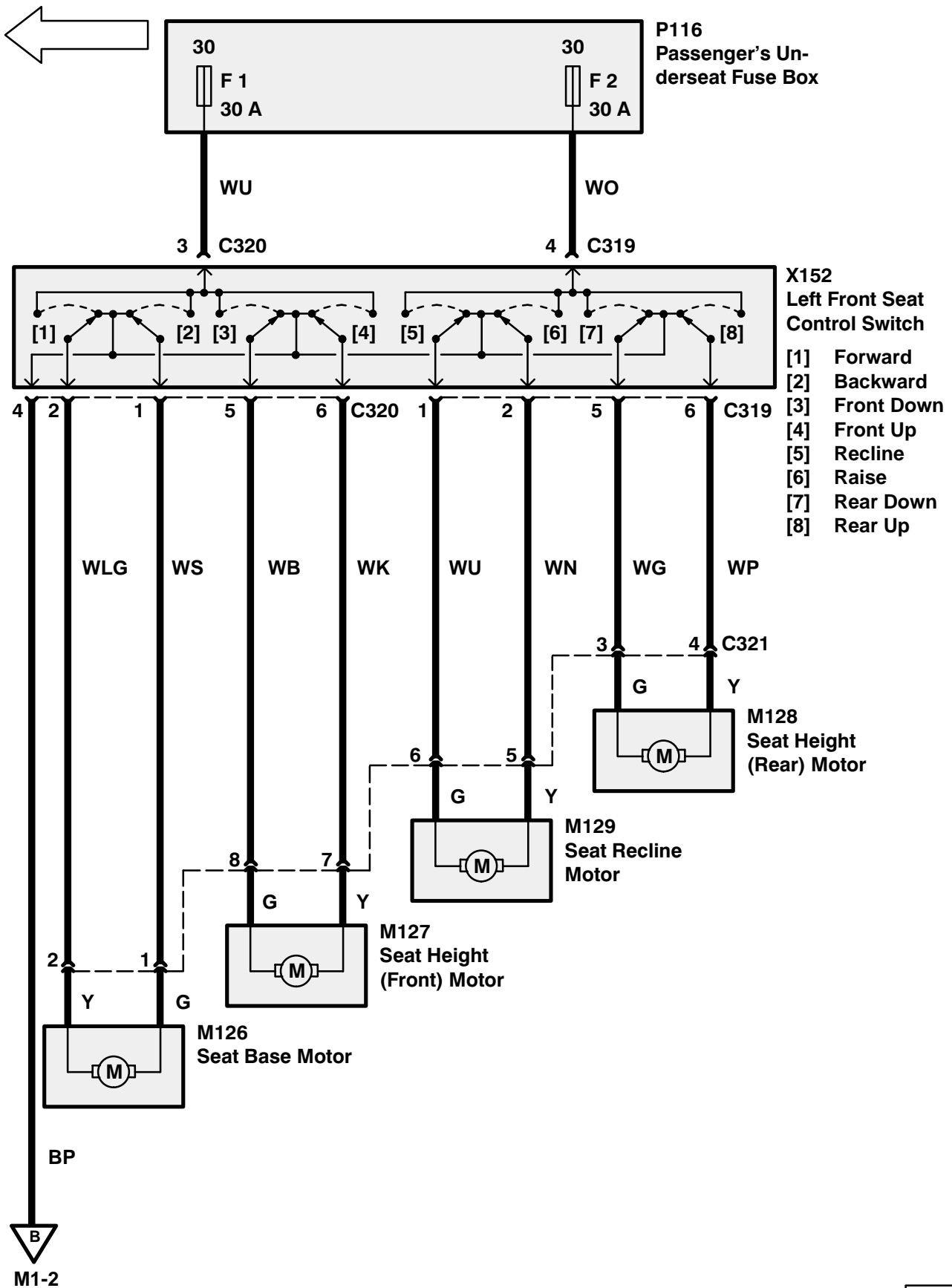
X121  
Right Front Seat  
Control Switch

- [1] Forward
- [2] Backward
- [3] Front Down
- [4] Front Up
- [5] Recline
- [6] Raise
- [7] Rear Down
- [8] Rear Up

See Ground Dis-  
tribution







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## CIRCUIT OPERATION

When the Ignition Switch (X134) is in position II, voltage is supplied to the power mirrors circuit by fuse F18.

### Left/Right Movement

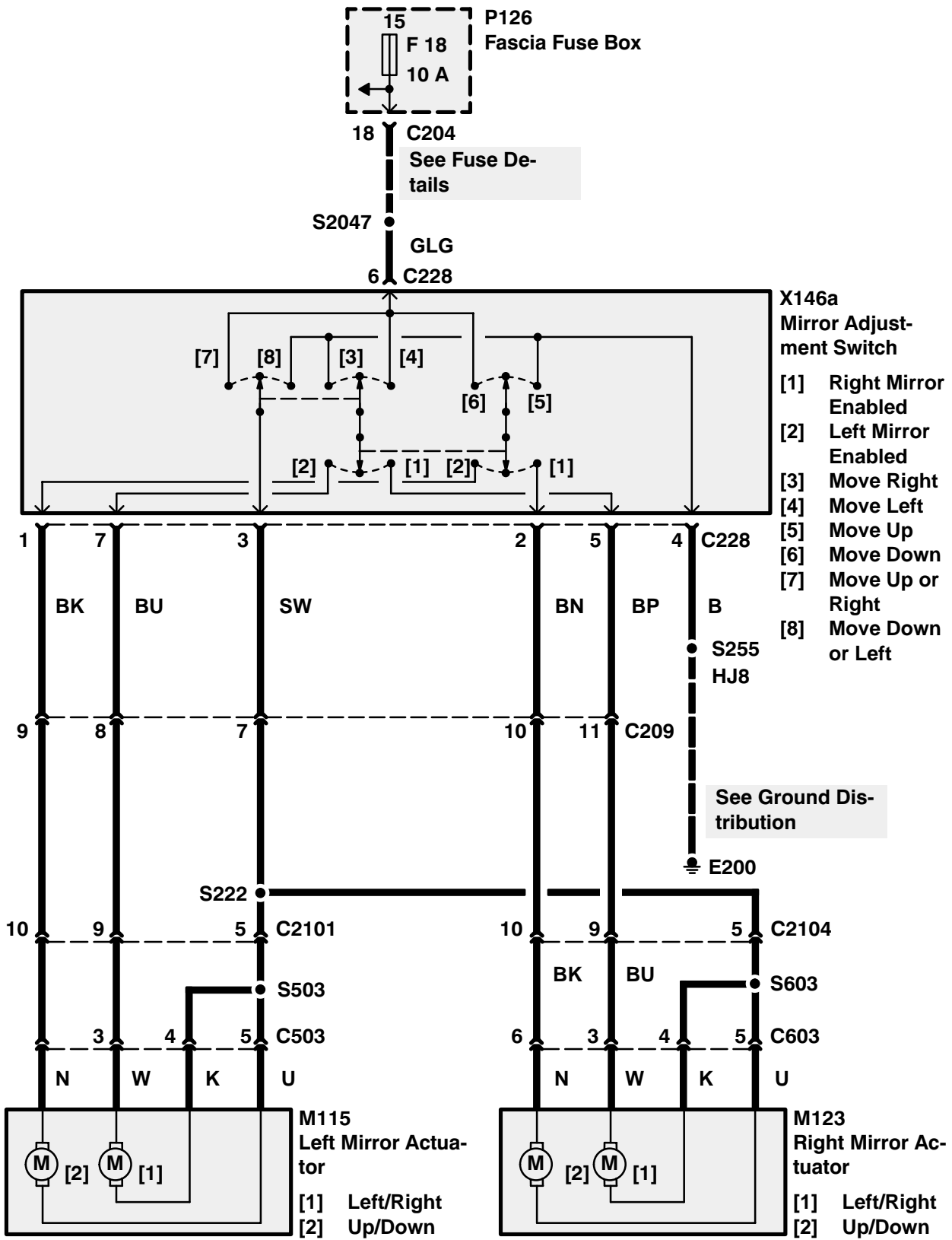
When a selected mirror is moved to the left by the Mirror Adjustment Switch (X146), the internal contacts move to the "Move Down or Left" and the "Move Left" positions. The Left/Right Motor of the selected actuator is grounded at E200 through the SW wires and the switch contacts. Voltage is applied to the Left/Right Motor through the BP, BU wires. The mirror now moves left.

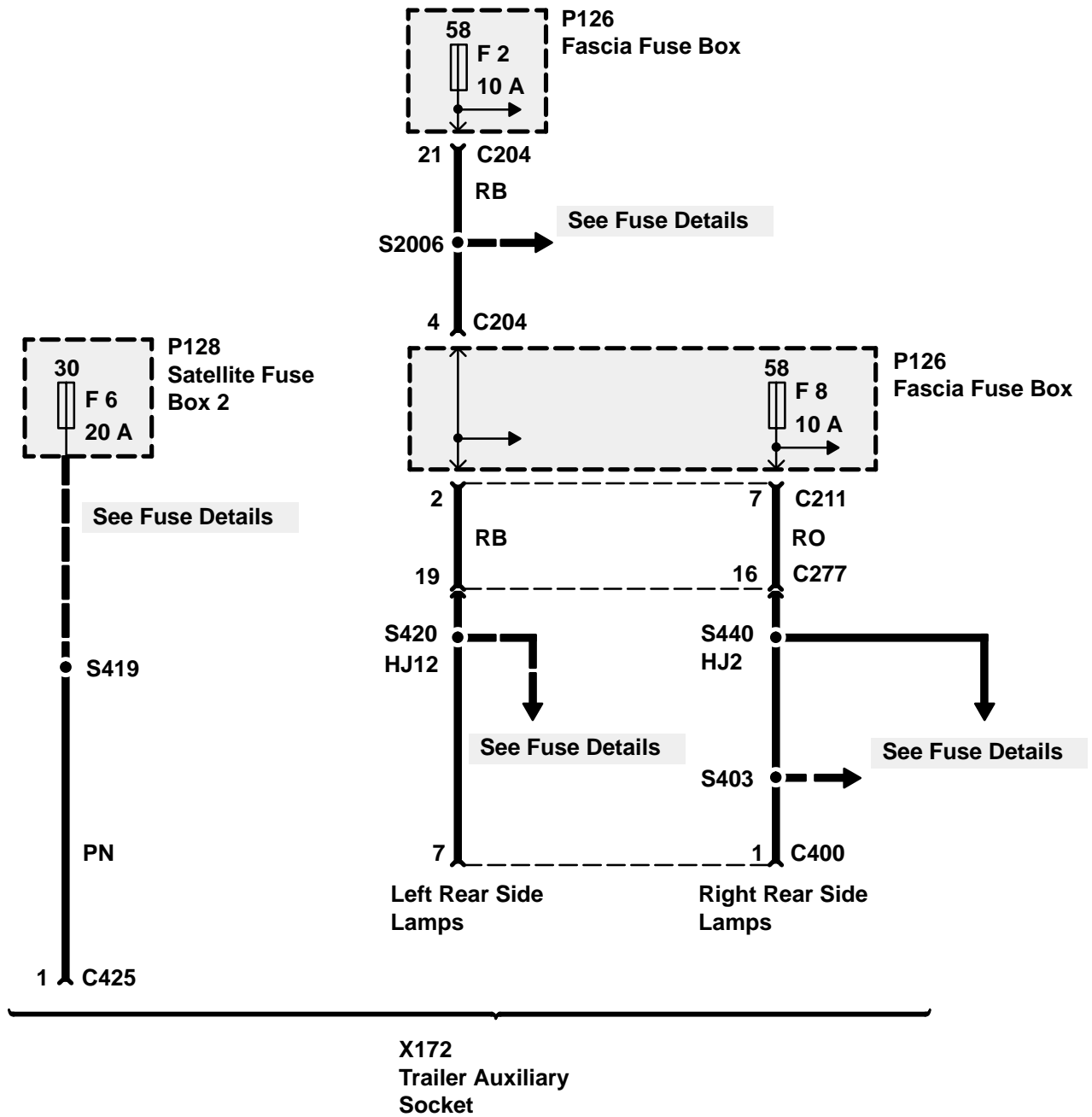
When a selected mirror is moved to the right by the Mirror Adjustment Switch (X146), the internal contacts move to the "Move Up or Right" and the "Move Right" positions. The Left/Right Motor of the selected actuator is grounded at E200 through the BU, BP wires and the switch contacts. Voltage is applied to the Left/Right Motor through the SW wires. Since the polarity of the voltage to the motor has been reversed, the mirror now moves right.

### Up/Down Movement

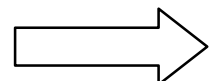
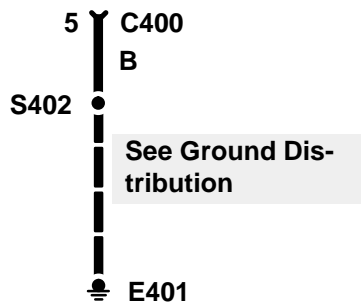
When a selected mirror is moved down by the Mirror Adjustment Switch (X146), the internal contacts move to the "Move Down or Left" and the "Move Down" positions. The Up/Down Motor of the selected actuator is grounded at E200 through the SW wires and the switch contacts. Voltage is applied to the Up/Down Motor through the BK, BN wires. The mirror now moves down.

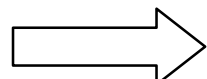
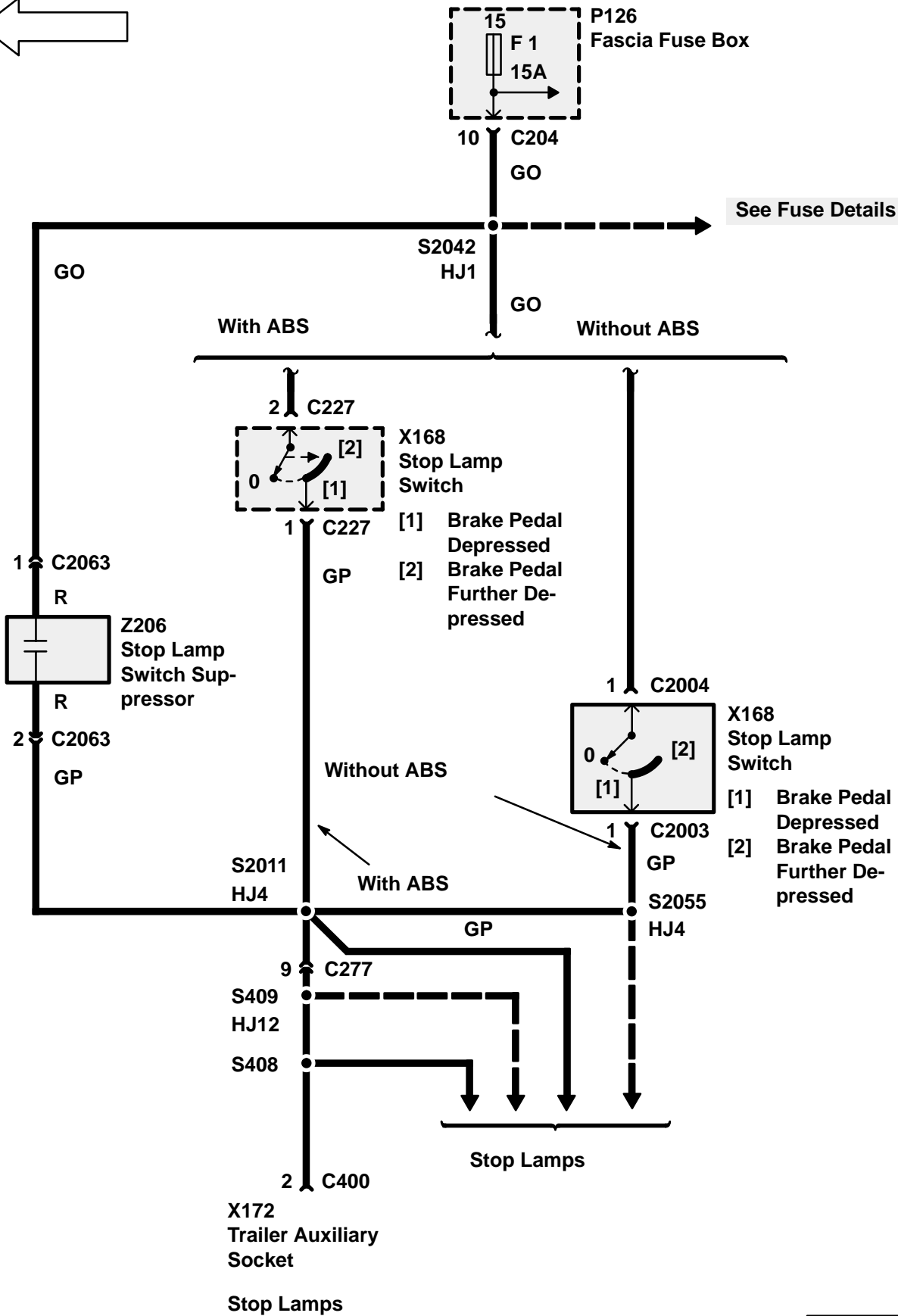
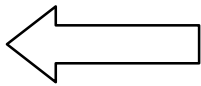
When a selected mirror is moved up by the Mirror Adjustment Switch (X146), the internal contacts move to the "Move Up or Right" and the "Move Up" positions. The Up/Down Motor of the selected actuator is grounded at E200 through the BN, BK wires and the switch contacts. Voltage is applied to the Up/Down Motor through the SW wires. Since the polarity of the voltage to the motor has been reversed, the mirror now moves up.

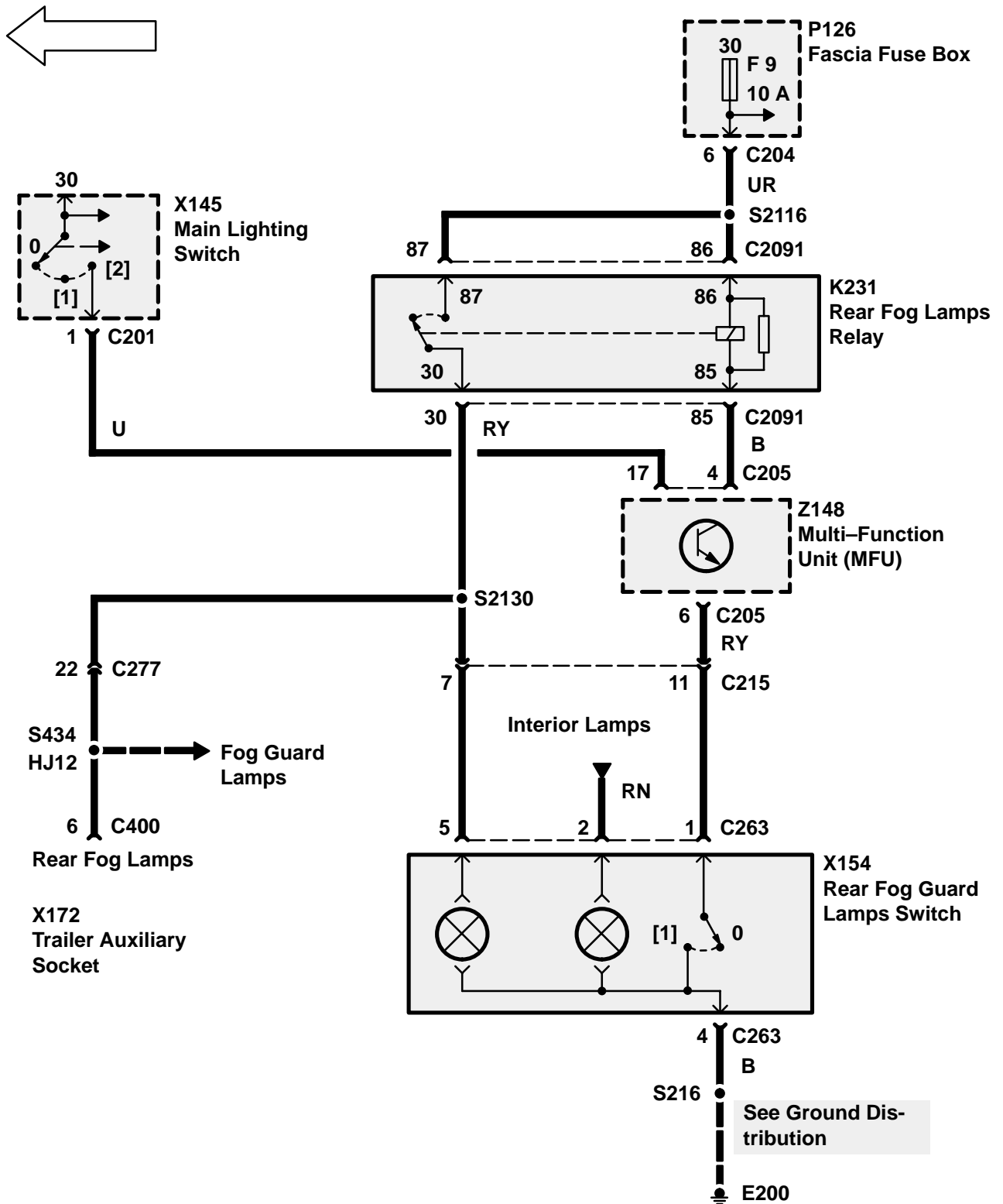


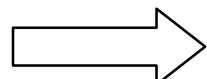
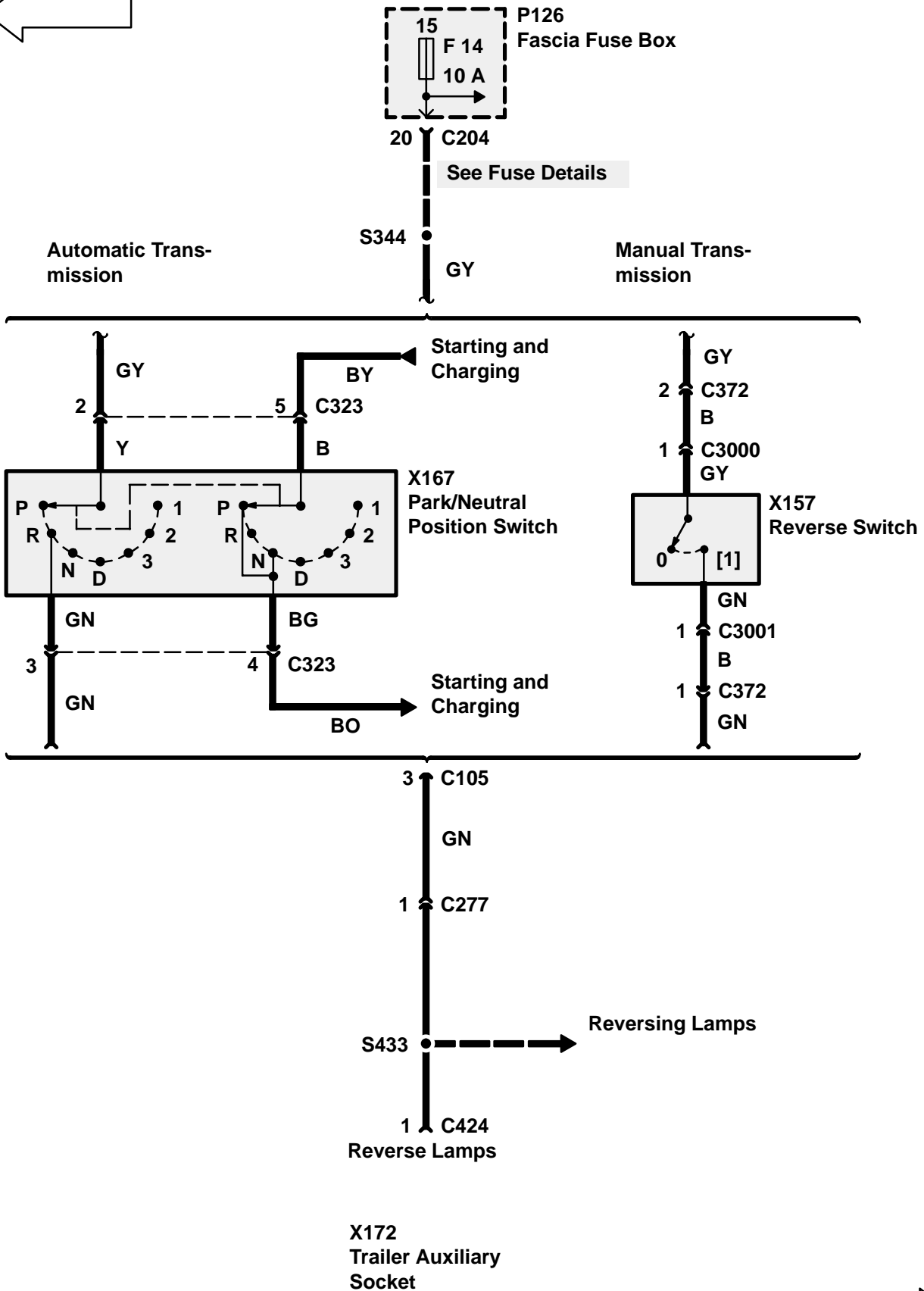
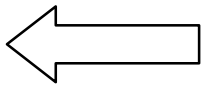


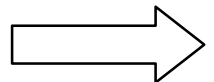
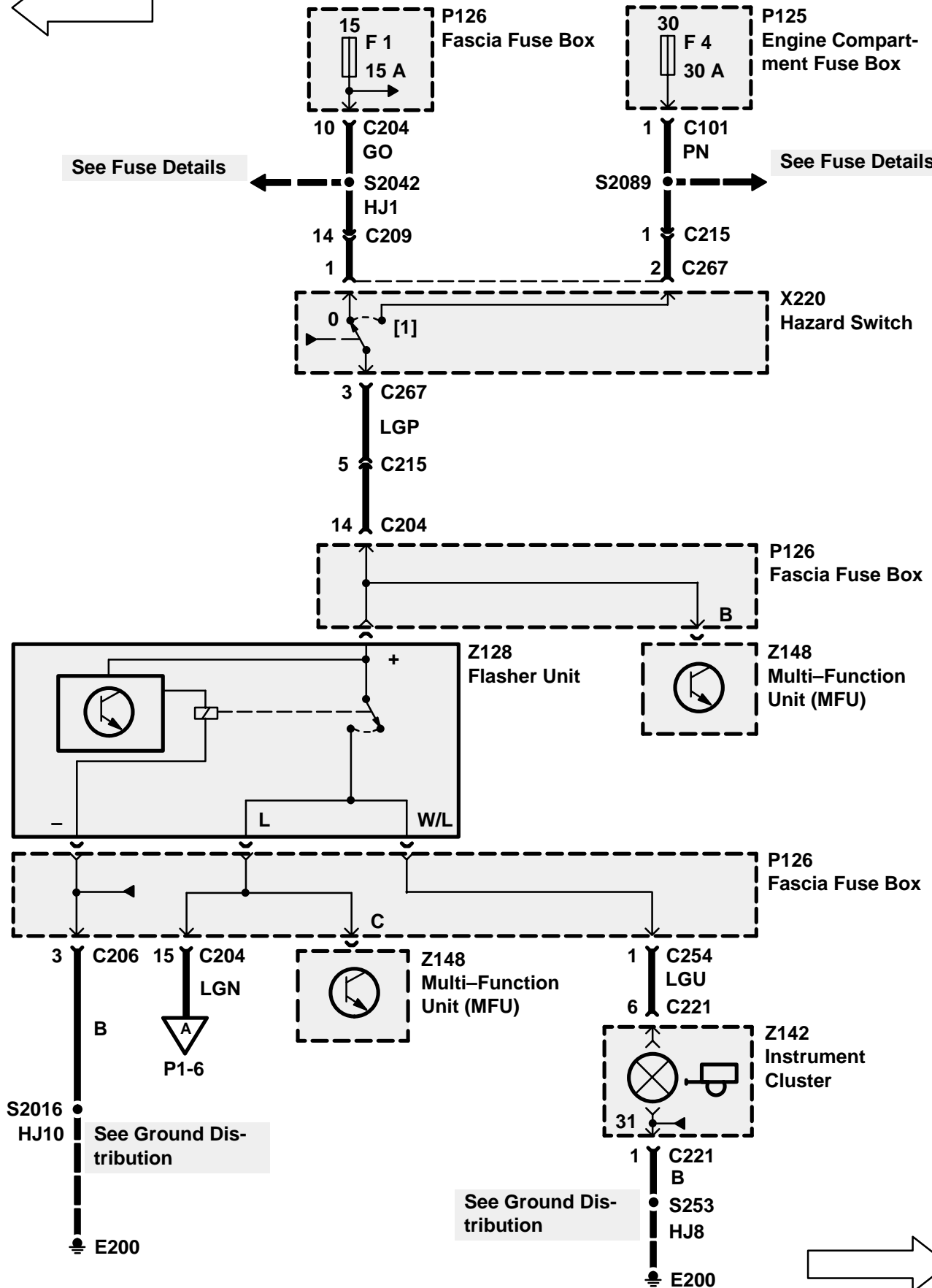
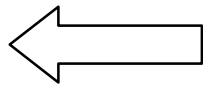
X172  
Trailer Auxiliary  
Socket



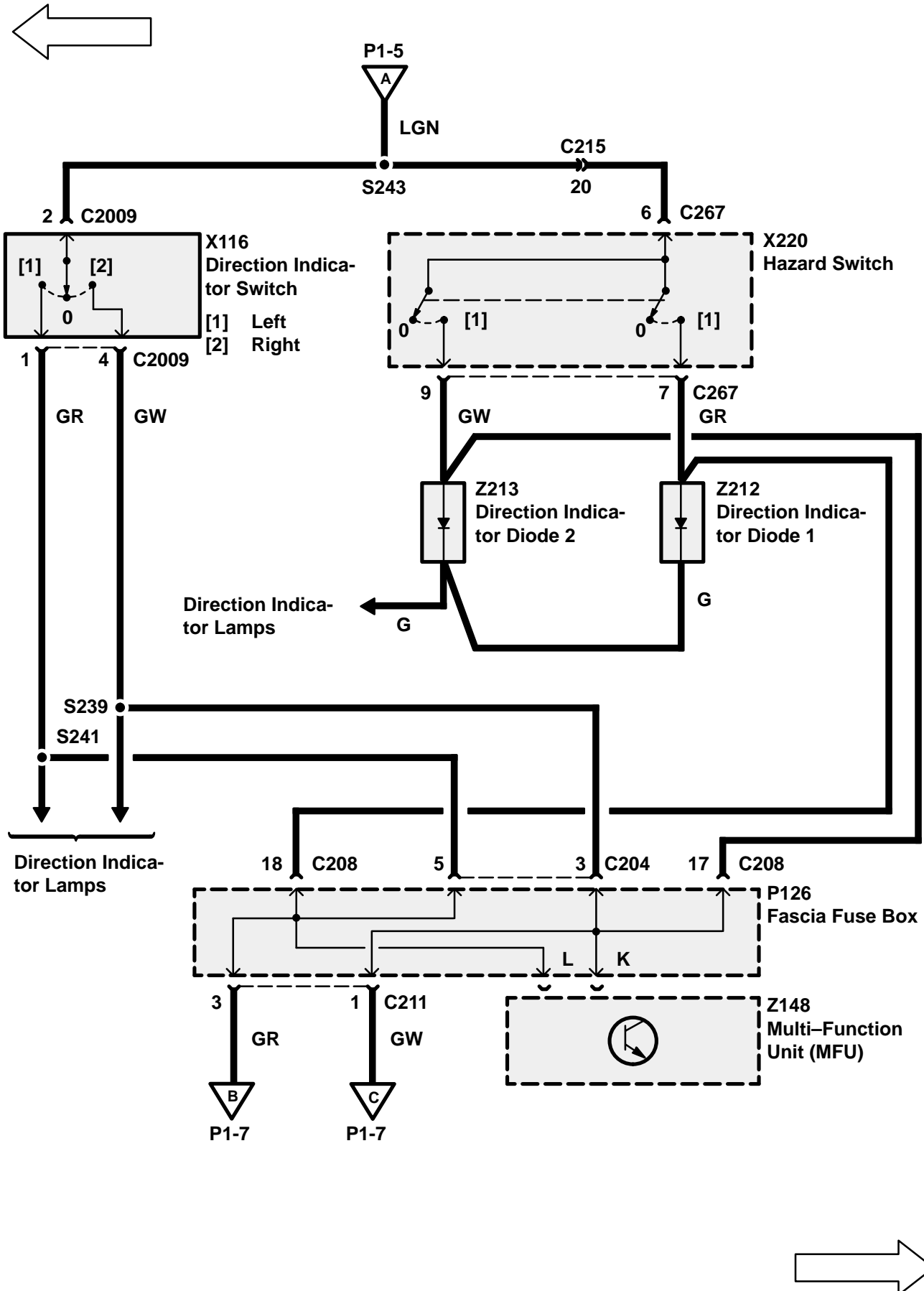


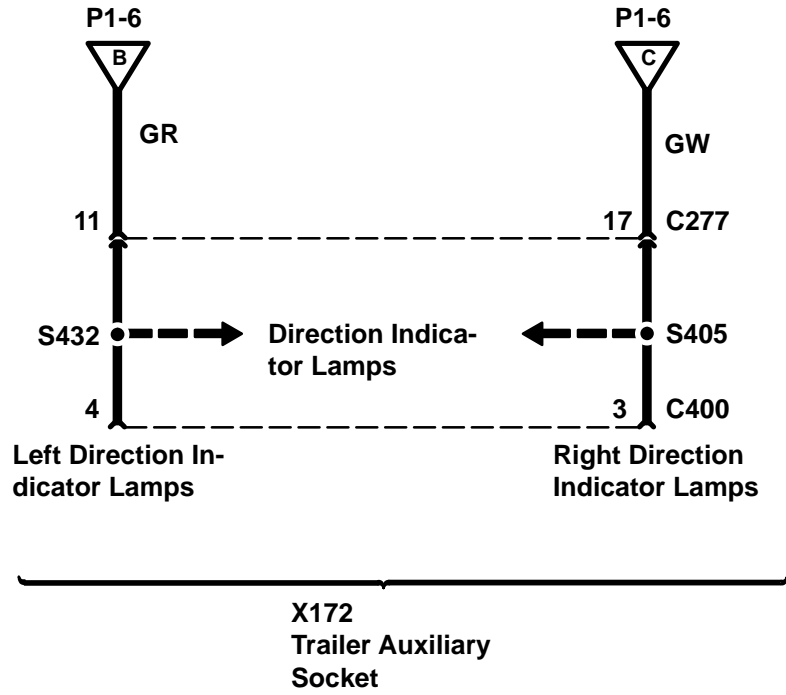
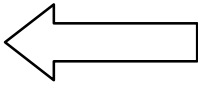












## CIRCUIT OPERATION

For 1996 models a vehicle alarm system is available as original equipment. Three different functions are integrated into the Theft Alarm System:

3. The main function of the system is to offer easy-to-use remote locking and unlocking of the vehicle (Central Locking).
4. Anti-Theft System function.
5. Engine Immobilisation function.

NOTE: The Theft Alarm ECU (Z163) is fully programmable to meet different market requirements; therefore some of the features listed will vary dependent on vehicle model or territory.

## ALARM COMPONENTS

1. Theft Alarm Unit (Z163)
2. Handset Transmitter
3. Passive Immobilisation Coil (Z270) (Not on all vehicles!)
4. Alarm Sensor (X213) (Not on all vehicles!)
5. Lock Actuators (M114, M122, M117, M125, M132)
6. Alarm Bonnet Switch (X212) (Not on all vehicles!)
7. Right Front Door Key Switch (X202)
8. Door Switches (X150, X118, X142, X163)
9. Rear End Door Switch (X265)
10. Direction Indicator Lamps (Hazard Lamps)
11. Battery Backed Up Alarm Sounder (Z272) (Not on all vehicles!)
12. Alarm Sounder (Z171) and Sounder Relay (K160) (Not on all vehicles!)
13. Theft Alarm LED and Engine Immobilised Warning Lamp (EIWL) (Included in the Instrument Cluster (Z142))
14. Engine Immobilisation Control Unit (Z171)  
MFI-V8 and 300 Tdi without EDC Engines only  
(Not on all vehicles!)

## Central Locking FUNCTION

Central Locking is controlled by the Theft Alarm Unit (Z163) and may be locked by using the driver's door key, sill button(s) or handset. The vehicle may be unlocked by using the handset or EKA code.

NOTE: The central door locking system will shut down for a period of approximately 15 seconds if the Theft Alarm Unit (Z163) determines that the Lock Actuators could be overheating.

## ANTI-Theft System Function

The alarm system offers the following forms of protection:

- Perimetric protection against unauthorised opening of all doors, tailgate, and bonnet.
- Engine crank inhibit against unauthorised engine crank.
- Electronic engine immobilisation against unauthorised engine start.
- Volumetric protection against intrusion into the passenger compartment.

NOTE: Perimetric protection is also triggered by the driver's door sill switch being lifted and the ignition switch being turned on.

### Perimetric Protection

The system is perimetrically armed whenever the vehicle is manually central door locked using the driver's door key. A lock request from the handset will volumetrically arm the theft alarm.

### Volumetric Protection

Using the handset transmitter will turn On and Off volumetric protection. In volumetric mode all doors, tailgate, and bonnet are protected against unauthorised entry, and the Ignition Switch is protected from being switched on. In addition, the vehicle interior is protected using the Alarm Sensor (X213).

### Theft Alarm Disarming

#### (Perimetric and Volumetric Modes)

The theft alarm can only be disarmed with the handset (or EKA code).

NOTE: The theft alarm system cannot be disarmed using the driver's door key.

### Partially Armed Mode

The system will enter the "partially armed" mode whenever one of the following conditions is valid during theft alarm arming:

- movement takes place inside the vehicle within 15 seconds of the lock signal being received
- a door, tailgate, or bonnet is open.

The engine will be immobilised and cranking is inhibited. The alarm will sound if ignition is turned to start position. The alarm will protect the following:

- If any of the doors caused partial arming, then opening the tailgate or bonnet will sound the alarm.
- If the tailgate caused partial arming, then the opening of any doors or the bonnet will sound the alarm.
- If the bonnet caused partial arming, then the opening of any doors or tailgate will sound the alarm. Volumetric protection is also armed.
- If two of the above cause partial arming, then the third is still protected.

If the doors, tailgate or bonnet is subsequently closed, after a 5 second delay, the system will fully arm.

### Engine Cranking

It is only possible to crank the engine when ignition is ON and alarm disabled.

### Alarm Sounder

When an intrusion is detected, the Alarm Sounder (Z171) will sound and the hazard lamps flash (where territorial regulations allow) for 30 seconds. The alarm must be retriggered before the Alarm Sounder will sound again.

Two different types of Alarm Sounders are available:

1. Normal Alarm Klaxon (Alarm Sounder (Z171))
2. Battery Backed Up Alarm Sounder (Z272)

The Battery Backed Up Alarm Sounder (Z272) is an alarm sounder which contains its own internal battery. When the Ignition is on, the internal battery is charged via an Ignition feed. If either the connector is removed or the wires to it are cut, then the sounder will sound for 3 minutes.

To disconnect the Battery Backed Up Alarm Sounder (Z272):

- Turn Ignition On (Pos. II)
- Turn Ignition Off
- Disconnect within 15 seconds

To silence if triggered:

- Connect
- Disarm Alarm
- Turn Ignition On (Pos. II)

### **Inertia Switch**

An inertia switch is incorporated in the Theft Alarm Unit (Z163). If ignition is on and the vehicle receives an impact sufficient to activate the inertia switch, the unit will signal to unlock central locking actuators and flash hazard lights. Central locking will remain disabled for a period of 0 to 5 minutes. To reset, turn ignition off and then on after the time period has elapsed.

### **Alarm Sensor (X213)**

The sensor operates by emitting an air pressure carrier wave and receiving the wave back. Any disturbance within the vehicle which disturbs the wave will be detected, triggering the alarm. When the volumetric sensor is activated, it monitors movement within the vehicle for 15 seconds before detecting and responding to intrusions. If the sensor detects movement within the vehicle, it delays arming until a 15 seconds quiet period has elapsed. If continuous movement is detected, the alarm will not arm volumetrically.

## **ENGINE IMMOBILISATION FUNCTION**

### **(Not on all vehicles!)**

The engine will be immobilised whenever the theft alarm is armed or the Theft Alarm Unit (Z163) enters the Passive Immobilisation mode (regardless of whether or not the theft alarm is armed). There are two methods of Engine Immobilisation featured:

1. Electronic Engine Immobilisation (used on MFI-T16 and 300 Tdi with EDC engines)
2. Remote "Smart Spider" Immobilisation (used on MFI-V8 and 300 Tdi without EDC engines)

The vehicle may only be mobilised by using the handset or entering the correct EKA code.

### **Electronic Engine Immobilisation**

#### **(MFI-T16) (300 Tdi with EDC)**

The electronic engine immobilisation is controlled jointly by the engine management system's Electronic Control Module (ECM) (Z132) and the Theft Alarm Unit (Z163).

When the Theft Alarm Unit (Z163) immobilises the vehicle, it sends a signal to the ECM. The ECM then immobilises the engine management system until a mobilise signal is received from the Theft Alarm Unit (Z163).

### **Remote "Smart Spider" Immobilisation**

#### **(MFI-V8) (300 Tdi without EGR)**

The Remote "Smart Spider" Immobilisation is controlled jointly by the Engine Immobilisation Control Unit (Spider) (Z271) and the Theft Alarm Unit (Z163). When the Theft Alarm Unit (Z163) immobilises the vehicle, it sends a signal to the Engine Immobilisation Control Unit (Spider) (Z271). The "Spider" then interrupts the starter circuit, fuel pump circuit, and ignition coil circuit for MFI-V8 engines, or the starter circuit and the fuel pump shutoff solenoid circuit for 300 Tdi without EGR engines. These circuits will remain interrupted until the "Spider" receives a mobilise signal from the Theft Alarm Unit (Z163).

### **Diesel Fuel Shut-off Immobilisation (DDS)**

#### **(300 Tdi with EGR)**

Diesel Fuel Shut-off Immobilisation is controlled jointly by the Diesel Immobilisation Unit (DDS) (Z276) and the Theft Alarm Unit (Z163). When the Theft Alarm Unit (Z163) immobilises the vehicle, it sends a signal to the Diesel Immobilisation Unit (DDS) (Z276). The Diesel Immobilisation Unit (DDS) (Z276) then interrupts its internal fuel shut-off solenoid circuit. This circuit will remain interrupted until the Diesel Immobilisation Unit (DDS) (Z276) receives a mobilise signal from the Theft Alarm Unit (Z163).

### Passive Immobilisation

The following conditions will passively immobilise the vehicle:

- 30 seconds after ignition has been turned off and the driver's door has been opened
- 5 minutes after ignition has been turned off
- 5 minutes after disarming the theft alarm

The vehicle can be mobilised by any of the following methods:

- Turn the ignition on (The handset must be functioning properly and within close proximity to the key!)
- Press unlock button on the handset (4 times if out of synch)
- Press lock button on the handset (4 times if out of synch)
- Enter EKA code

NOTE: The vehicle will remain immobilised by attempting to turn the Ignition on with the handset detached from the key ring (or with an improperly functioning handset).

### Passive Immobilisation Coil (Z270)

A magnetic field is generated by the passive Immobilisation Coil (Z270) contained in the steering column. This field excites a receiving coil in the handset causing it to transmit a mobilisation signal to the Theft Alarm Unit (Z163). If the Theft Alarm Unit (Z163) does not receive this signal from the handset, the vehicle will remain immobilised.

### Vehicle Status Indication

Vehicle status is indicated by up to four devices:

1. Hazard lamps
2. Theft Alarm LED (Contained in the Instrument Cluster (Z142))
3. Engine Immobilised Warning Lamp (EIWL) (Contained in the Instrument Cluster (Z142))
4. Alarm Sounder

#### Hazard Lamps

When the vehicle arms in either mode, the hazard lamps will flash up to three times when the alarm is armed and one time when disarmed.

#### Theft Alarm LED

- Slow Flash: Immobilised or immobilised and armed
- Rapid Flash: Volumetrically armed

- Intermittent Rapid Flash: Perimetrically armed
- No Flash for 10 Seconds: Mislock
- Continuous: Driver's door open (or ignition on) and immobilised

NOTE: The Theft Alarm LED may also be used to indicate other conditions.

Engine Immobilised Warning Lamp (EIWL) (Not on all vehicles!)

- Flashing: Immobilised
- Continuous: Immobilised (Cirrus Fail) or an attempt has been made to start the vehicle without the handset attached to the key ring (or handset battery needs to be replaced).

### Handset Transmitter Resynchronisation

The Theft Alarm Unit (Z163) will remain synchronised with the handset unless:

- The handset's batteries have been removed
- The vehicle's battery has been disconnected

NOTE: All handsets must be resynchronised when the vehicle's battery has been disconnected.

To resynchronise a handset the vehicle must be in an unlocked and disarmed state. Resynchronisation consists of 4 presses of either the lock or unlock button.

### Handset Low Battery Warning

When the handset batteries are low, the Theft Alarm Unit (Z163) will enter the "low battery mode". The Theft Alarm LED will flash to indicate "low battery mode", and the hazard lamps will not flash when the alarm is disarmed.

### Interior Lamps

The Theft Alarm Unit may be configured to perform full interior Lamp delay and soft-fade functionalities.

### Power Up Mode

The alarm system always remembers the state it was left in when power was removed. If the alarm powers up in an alarmed state, it will enter a special "power up mode".

### Emergency Key Access (EKA)

EKA is used to disarm the theft alarm and mobilise the vehicle in the event of a handset failure. This is possible through a series of locks and unlocks with the key in the driver's door lock cylinder. With the vehicle locked and the alarm armed, turn the key the required number of times according to the following sequence:

1. To enter the first digit, turn the key the required number of times to the unlock position.
2. To enter the second digit, turn the key the required number of times to the lock position.
3. To enter the third digit, turn the key the required number of times to the unlock position.
4. To enter the fourth digit, turn the key the required number of times to the lock position.

5. Turn the key to the unlock position to unlock the doors, disarm the alarm, and mobilise the vehicle.

NOTE: The key must be fully turned to the rest and lock/unlock position each time.

If the wrong EKA code has been entered, an audible warning will be heard. After 3 wrong attempts, you must wait 30 minutes. To clear a partially entered code, simply hold the key in the lock position for at least 5 seconds.

### BUILT IN TEST PROCEDURE

The handset should be detached from the key ring to allow perimetric testing. The system will automatically switch to volumetric testing if the handset is in close proximity to the Ignition Switch (X134). The built in test procedure is accessed as follows:

1. Starting conditions: ignition off, doors unlocked, alarm disarmed, bonnet switch depressed.
2. Carry out instructions 3 to 7 within 5 seconds.
3. Release bonnet switch.
4. Switch ignition on.
5. Open driver's door.
6. Switch ignition off.
7. Switch ignition on.

If alarm is correctly accessed, the alarm sounder will sound. The following checks can then be made:

#### Perimetric Testing

1. Open and close driver's door or tailgate – Theft Alarm LED and Hazard lamps will flash.
2. Depress bonnet switch – Theft Alarm LED and Hazard lamps will flash.
3. Pull the driver's door sill button up – Theft alarm LED and Hazard lamps will flash.
4. Turn driver's door key lock cylinder – Theft Alarm LED and Hazard lamps will flash.

#### Volumetric Testing

1. Press the unlock button on the handset or move the handset close to the Ignition Switch (X134) to disable perimetric testing and enable volumetric testing.
2. Any movement within the vehicle will be detected by the Alarm Sensor (X213) and indicated by flashing the Theft Alarm LED and hazard lamps.
3. Turn off ignition to end test procedure.

### HANDSET INITIALISATION

The Theft Alarm Unit (Z163) must be programmed whenever handsets are replaced. The serial communications line is used to activate the "learn mode" of the Theft Alarm Unit (Z163). Then the handset(s) to be initialised must be made to transmit their coded data to the Theft Alarm Unit (Z163).

NOTE: All handset(s) must be programmed during the same learn mode period. It is not possible to simply add a handset to the Theft Alarm Unit (Z163) which has been programmed to other handsets.

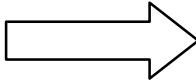
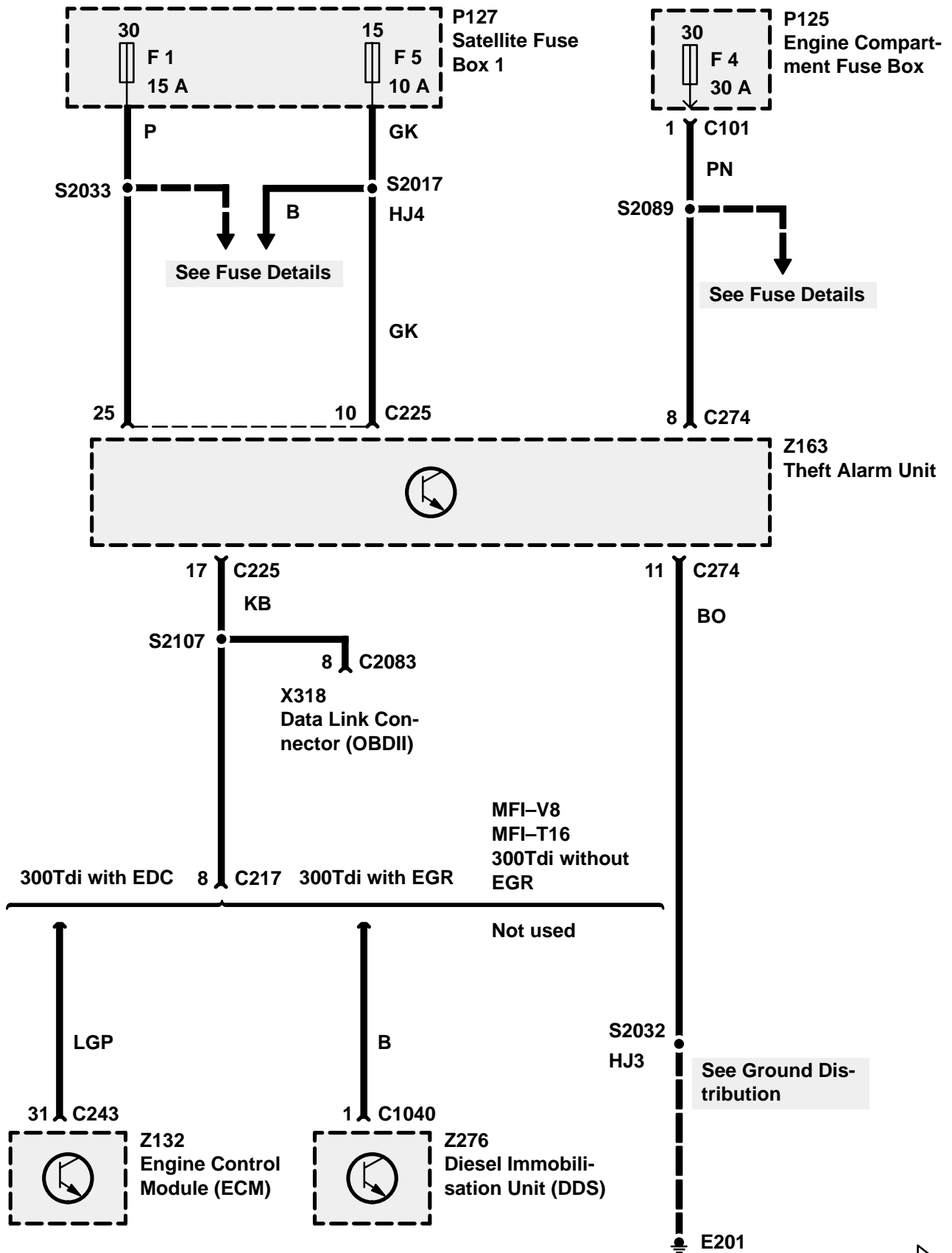
When the "learn mode" of the Theft Alarm Unit (Z163) has been accessed, handsets can be programmed using the following procedure:

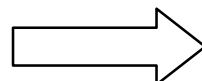
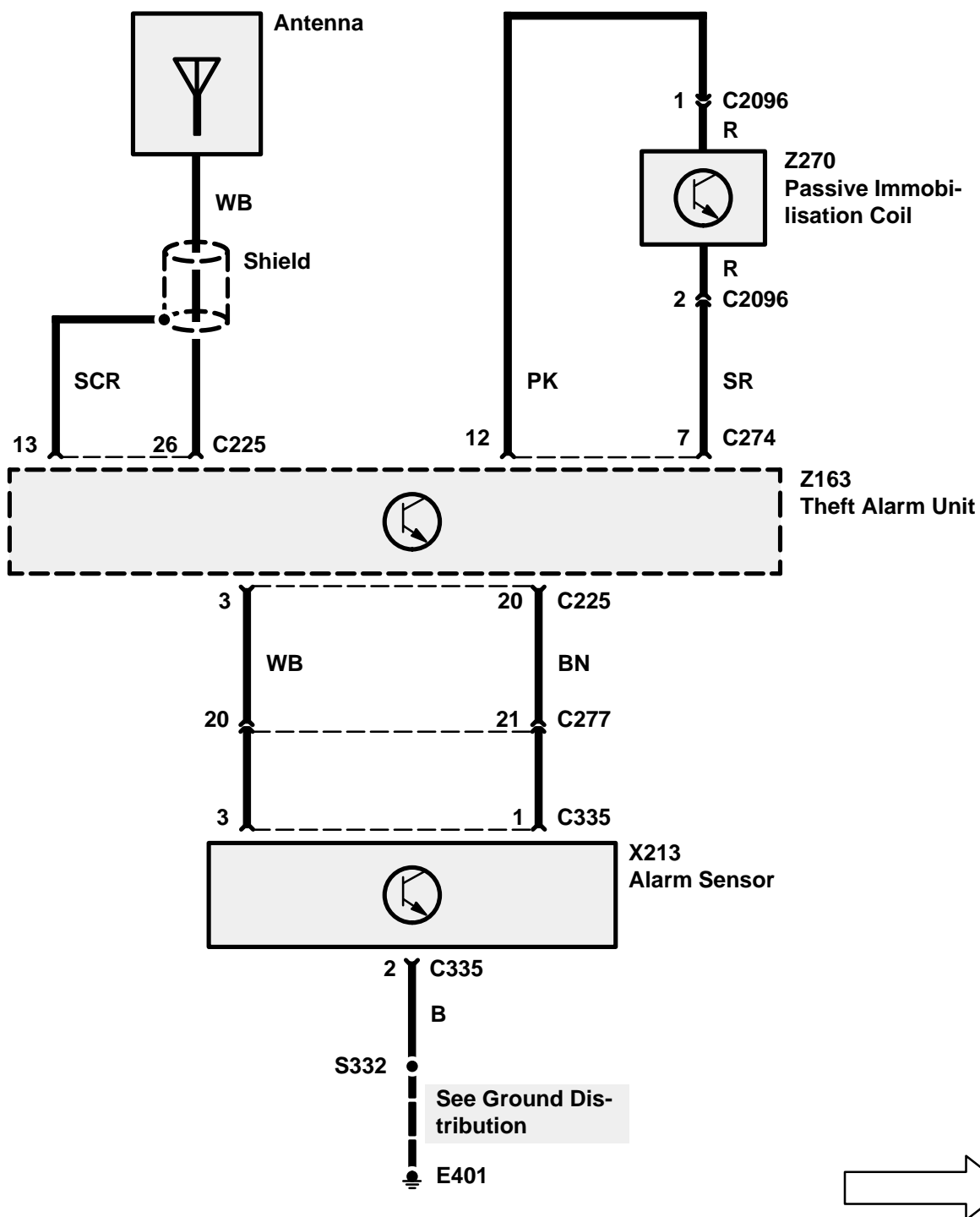
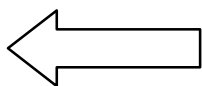
1. Starting conditions: Theft Alarm disarmed and vehicle mobilised.
2. Press the handset's Unlock button a minimum of 8 times.
3. If the handset has been correctly programmed, the horn will briefly sound and the hazard lamps will flash once.
4. The next handset, up to a maximum of 4, can now be programmed using the same procedure.

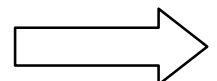
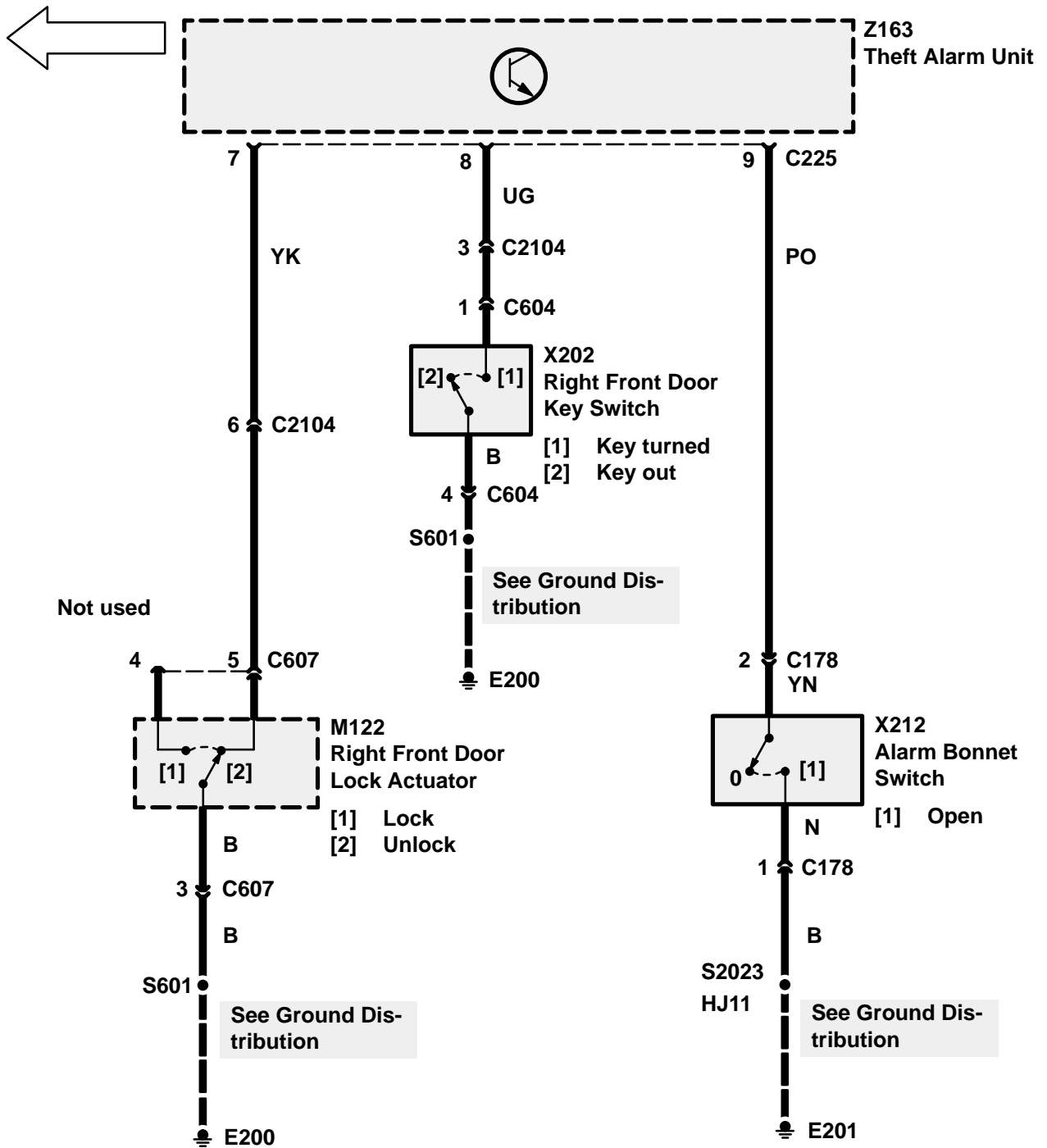
NOTE: It is very important that each handset be programmed separately. If the Theft Alarm Unit (Z163) receives key presses from two handsets, then neither handset will be programmed.

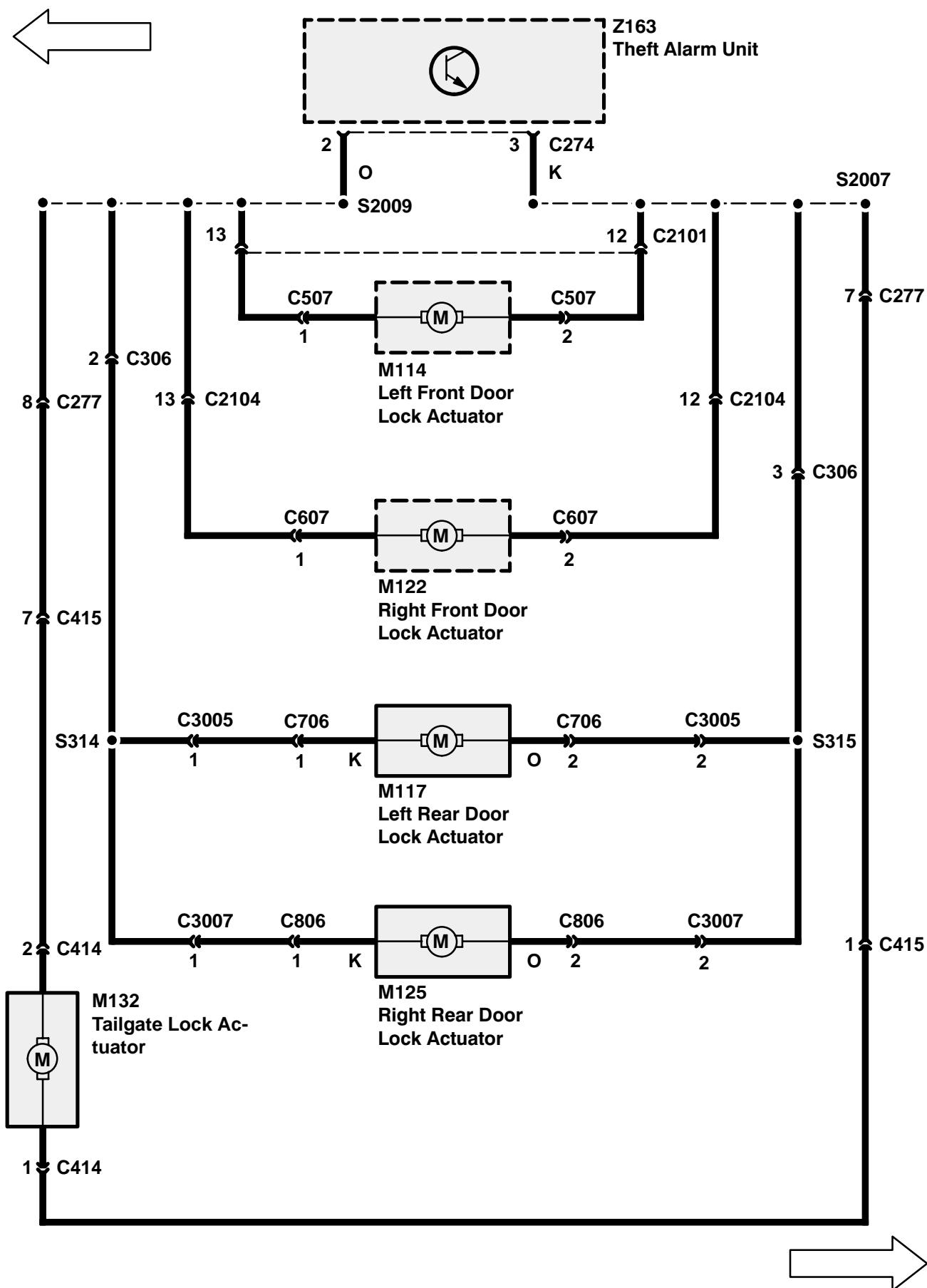
The "learn mode" is terminated using the serial communications line. If the Theft Alarm Unit (Z163) would not accept reprogramming, the original handset(s) will still function.

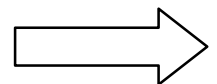
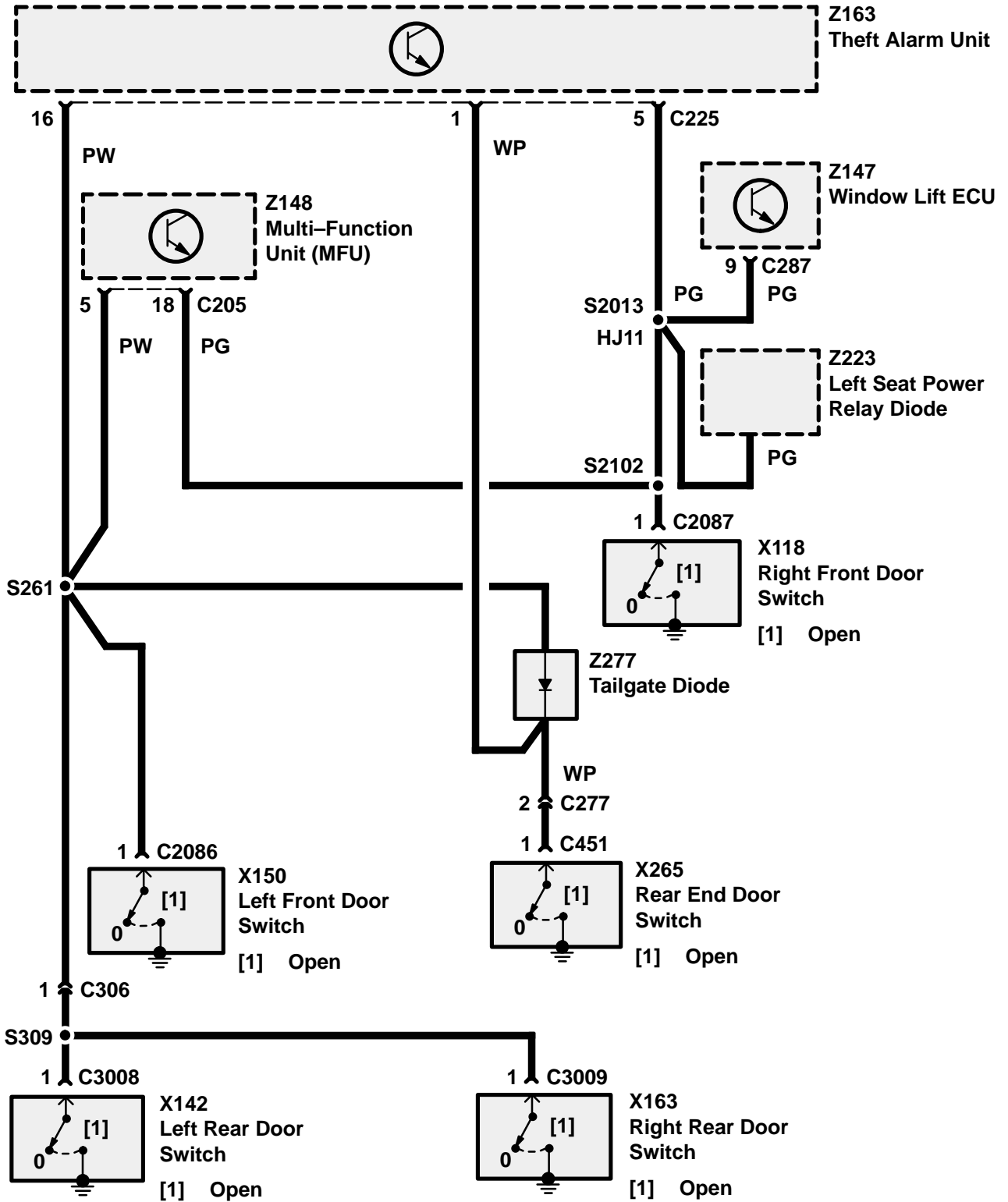
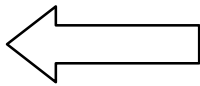


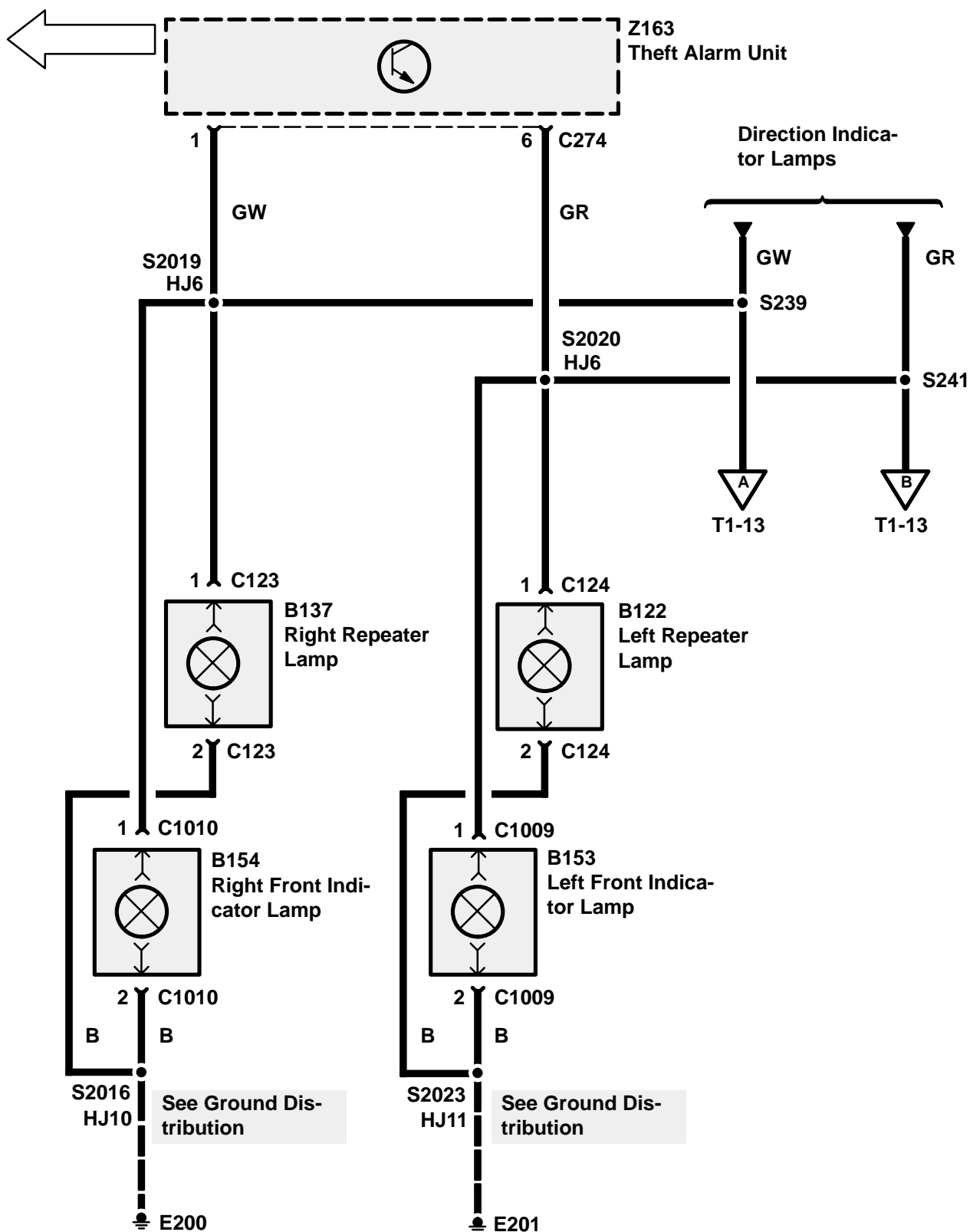


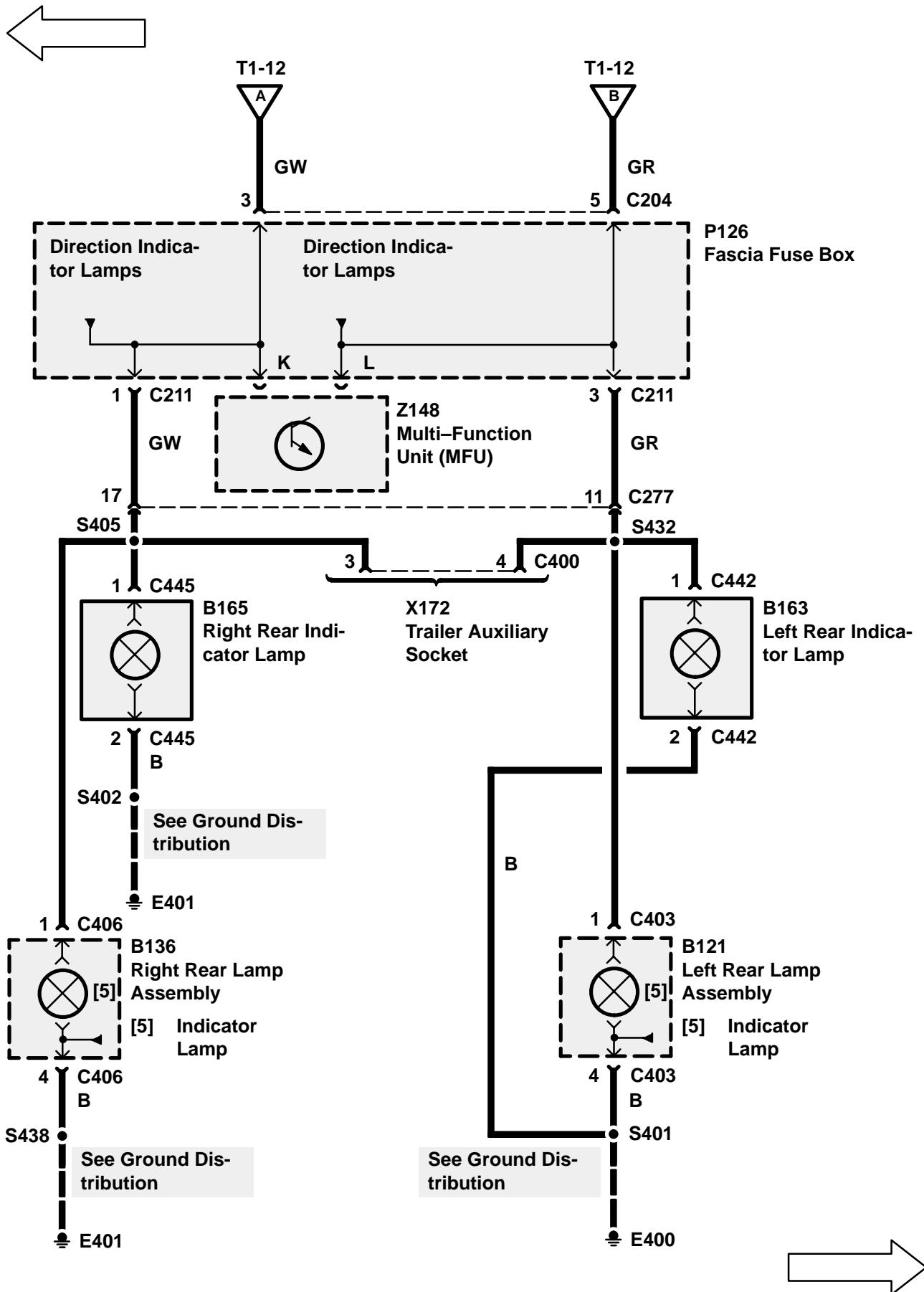


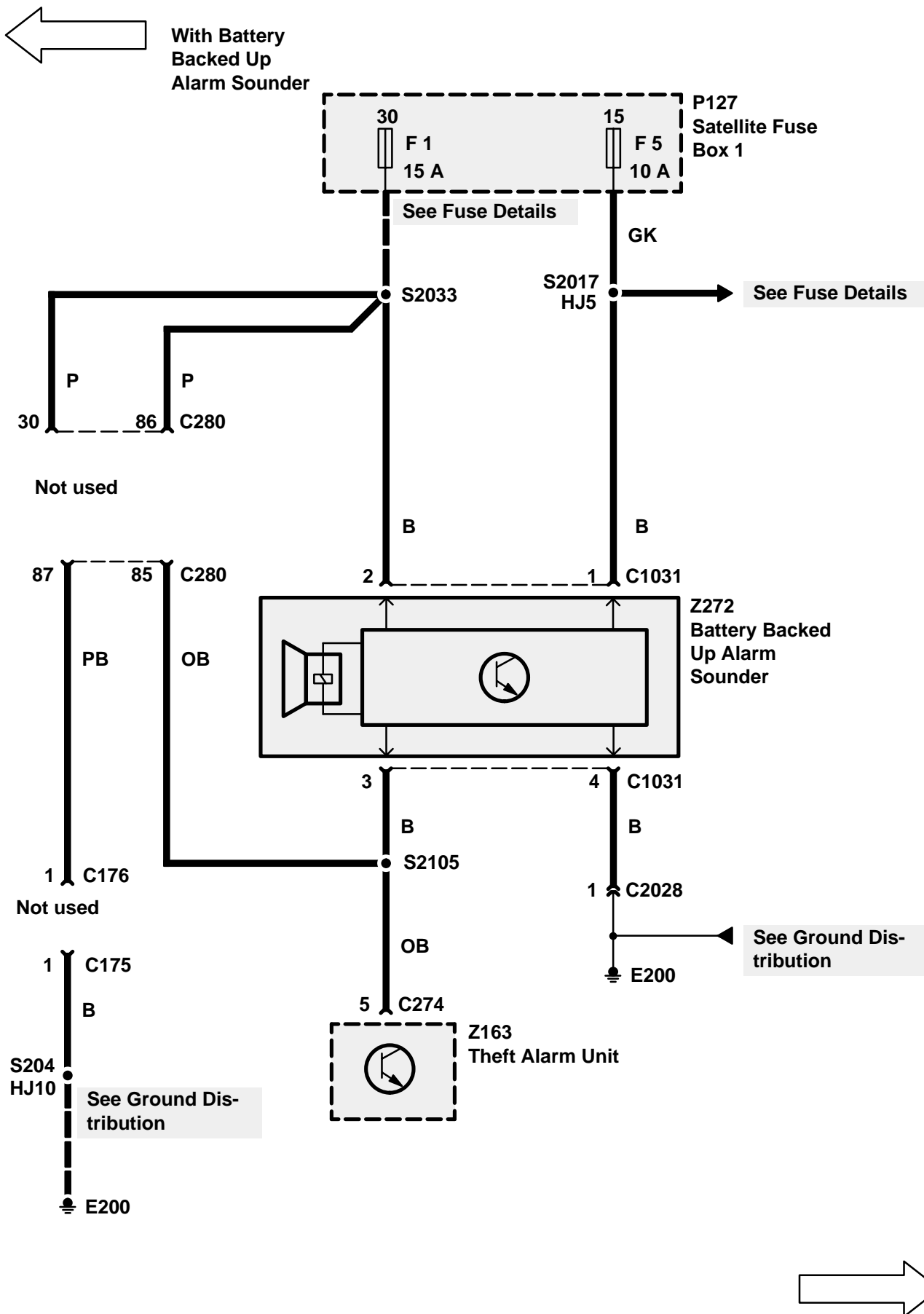




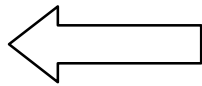




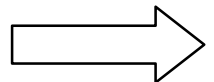
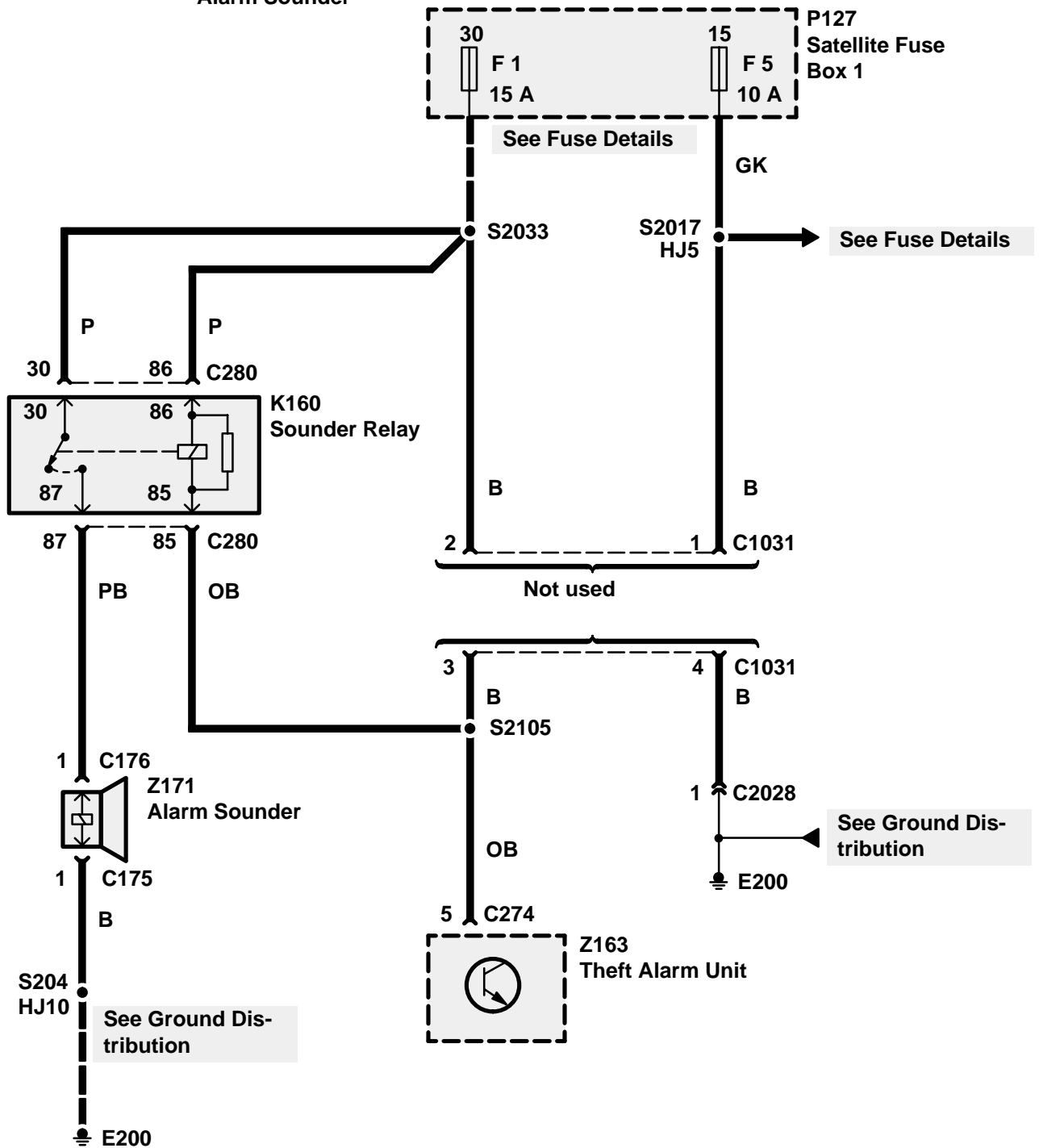


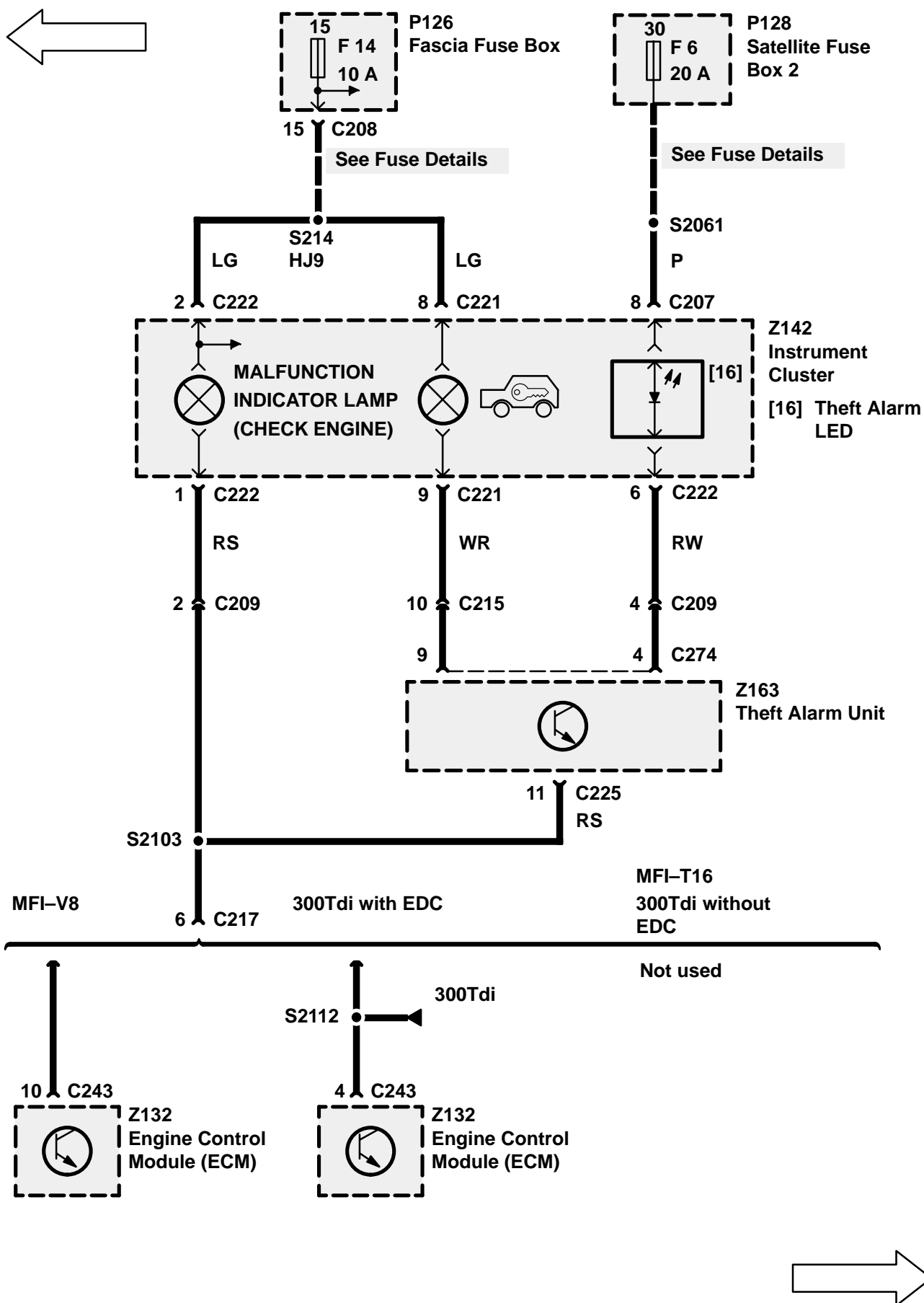




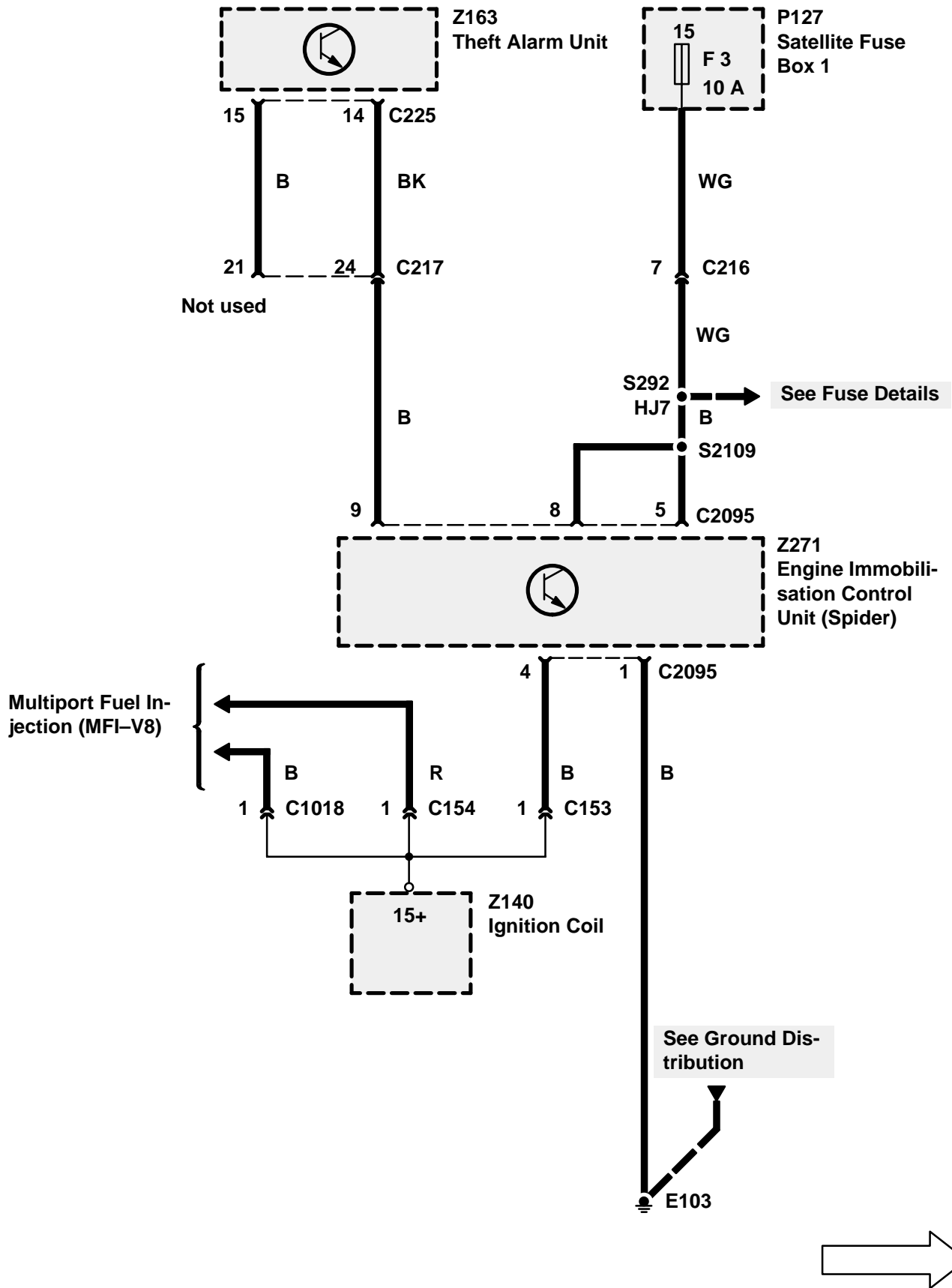


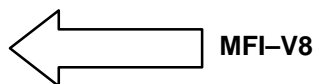
Without Battery Backed Up Alarm Sounder



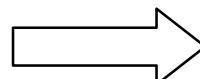
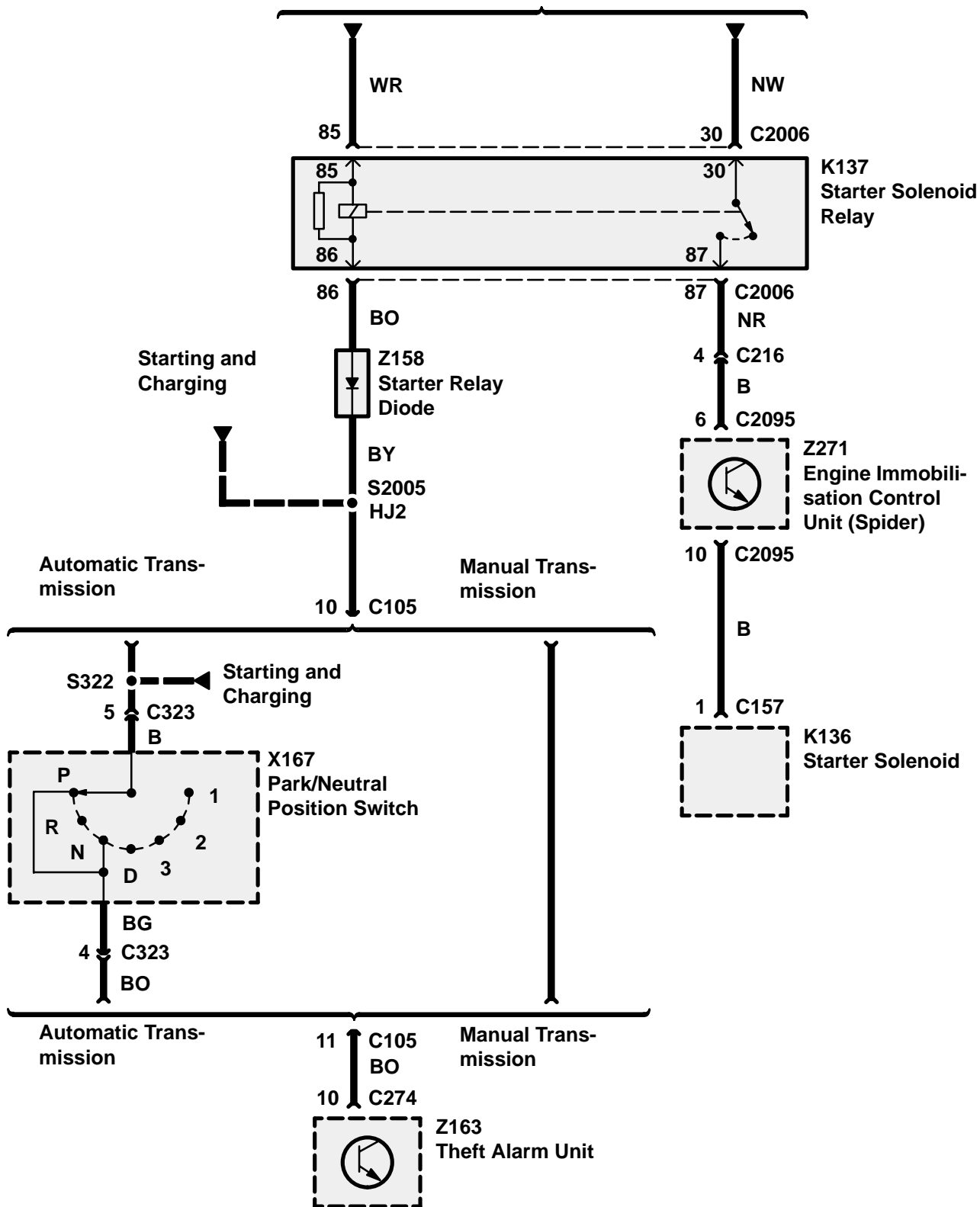


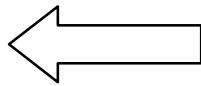
MFI-V8 ←





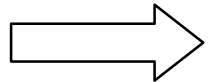
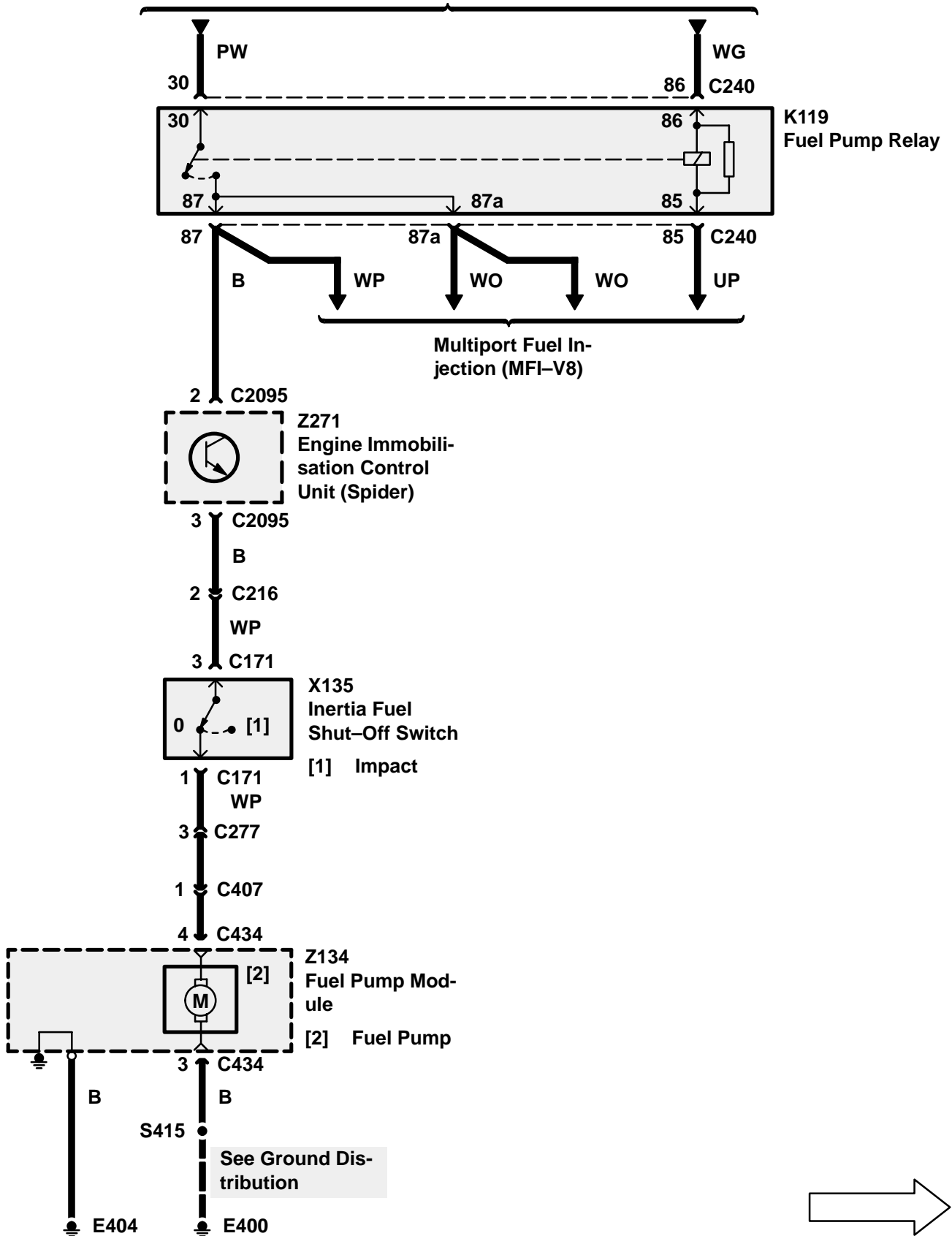
Starting and Charging

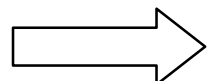
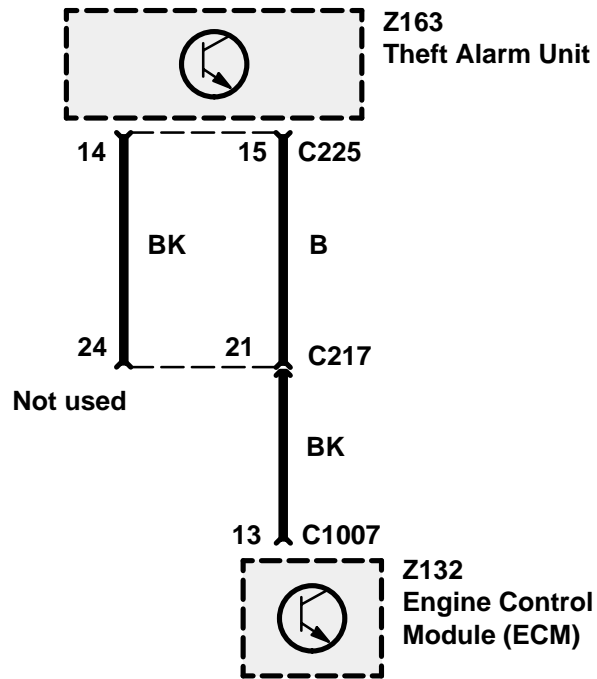
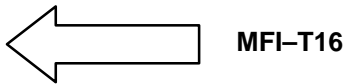


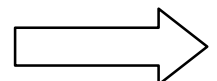
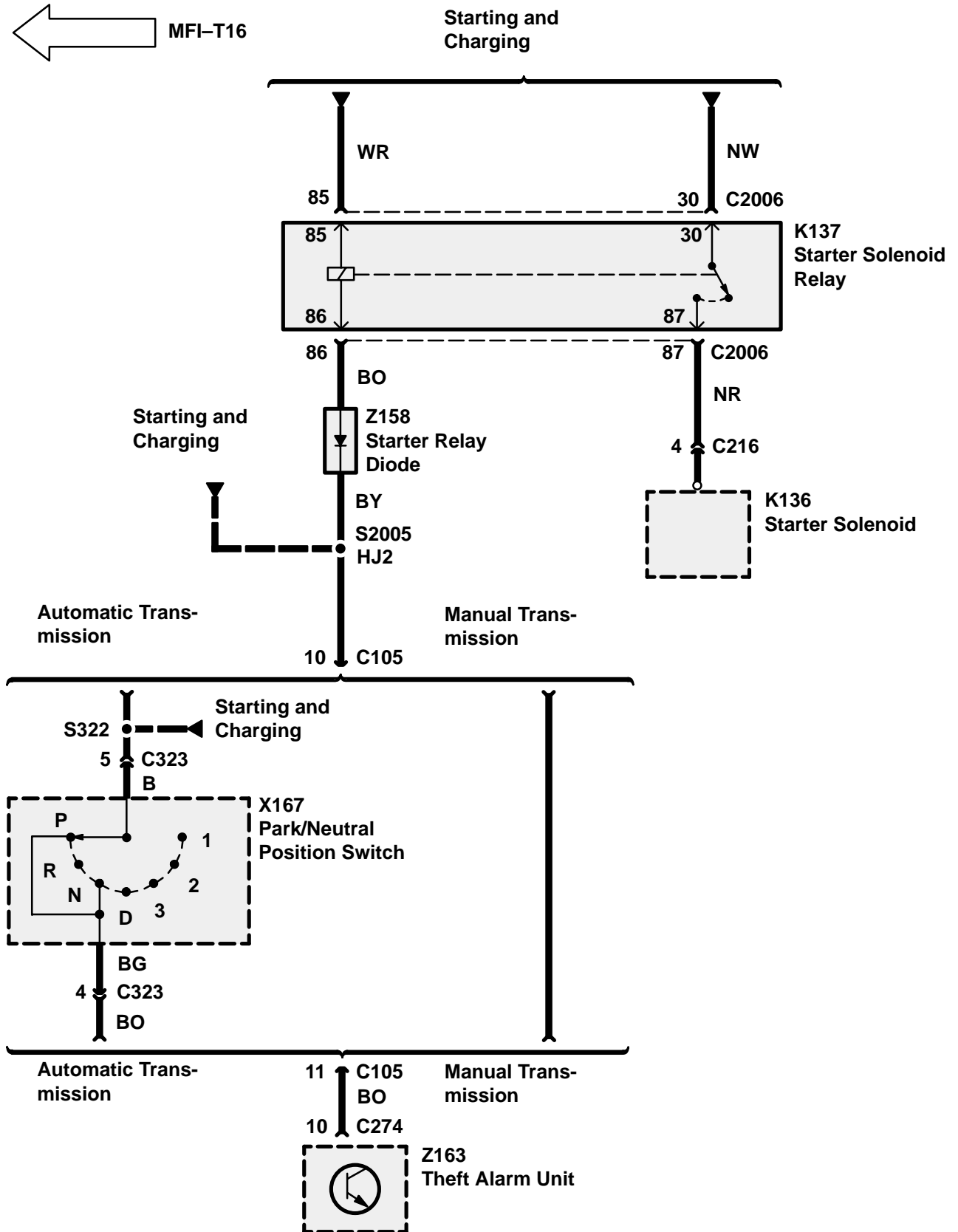
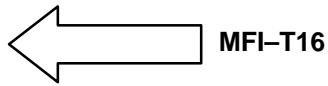


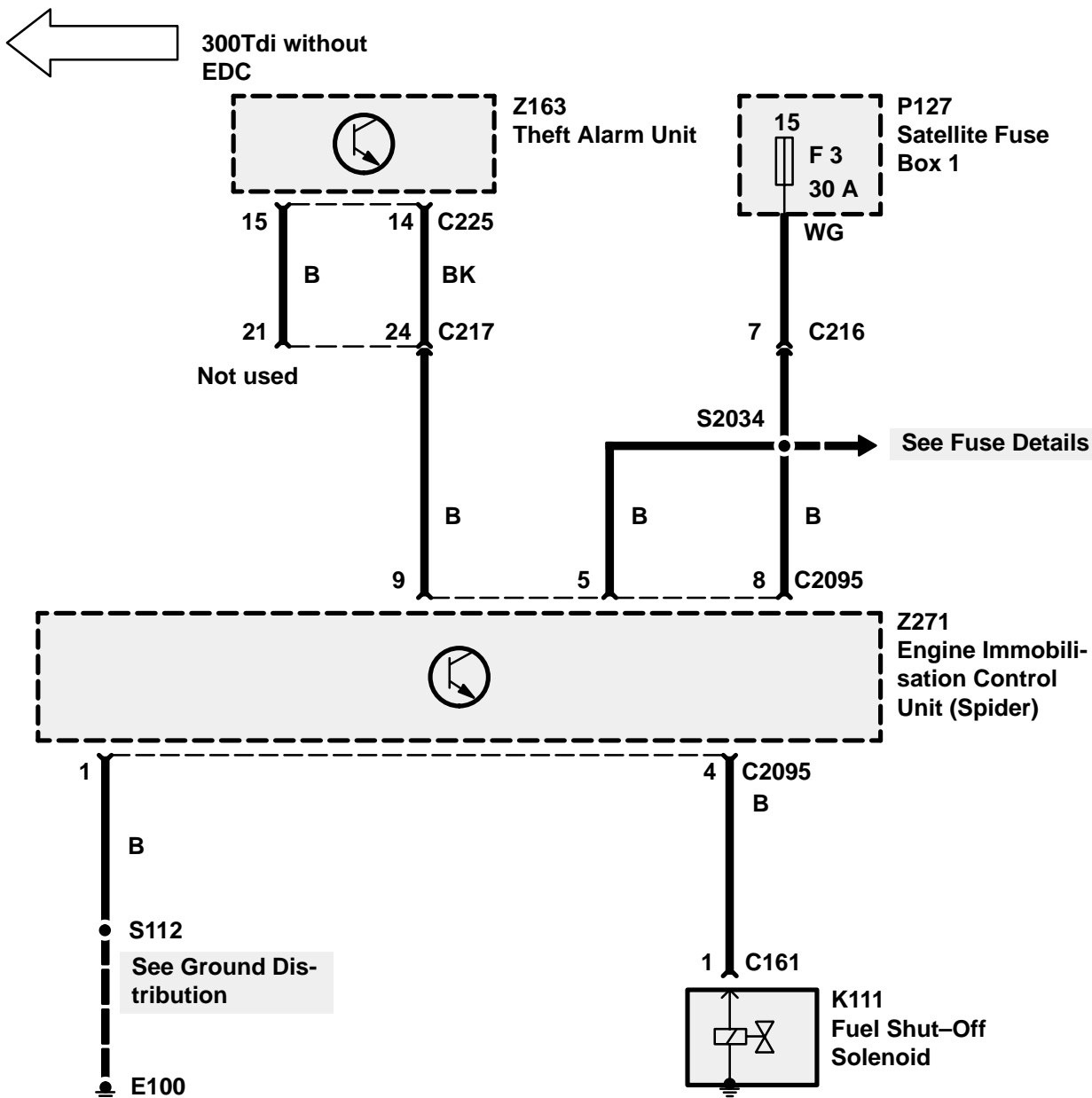
MFI-V8

Multiport Fuel In-  
jection (MFI-V8)

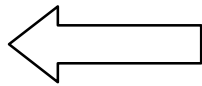






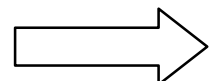
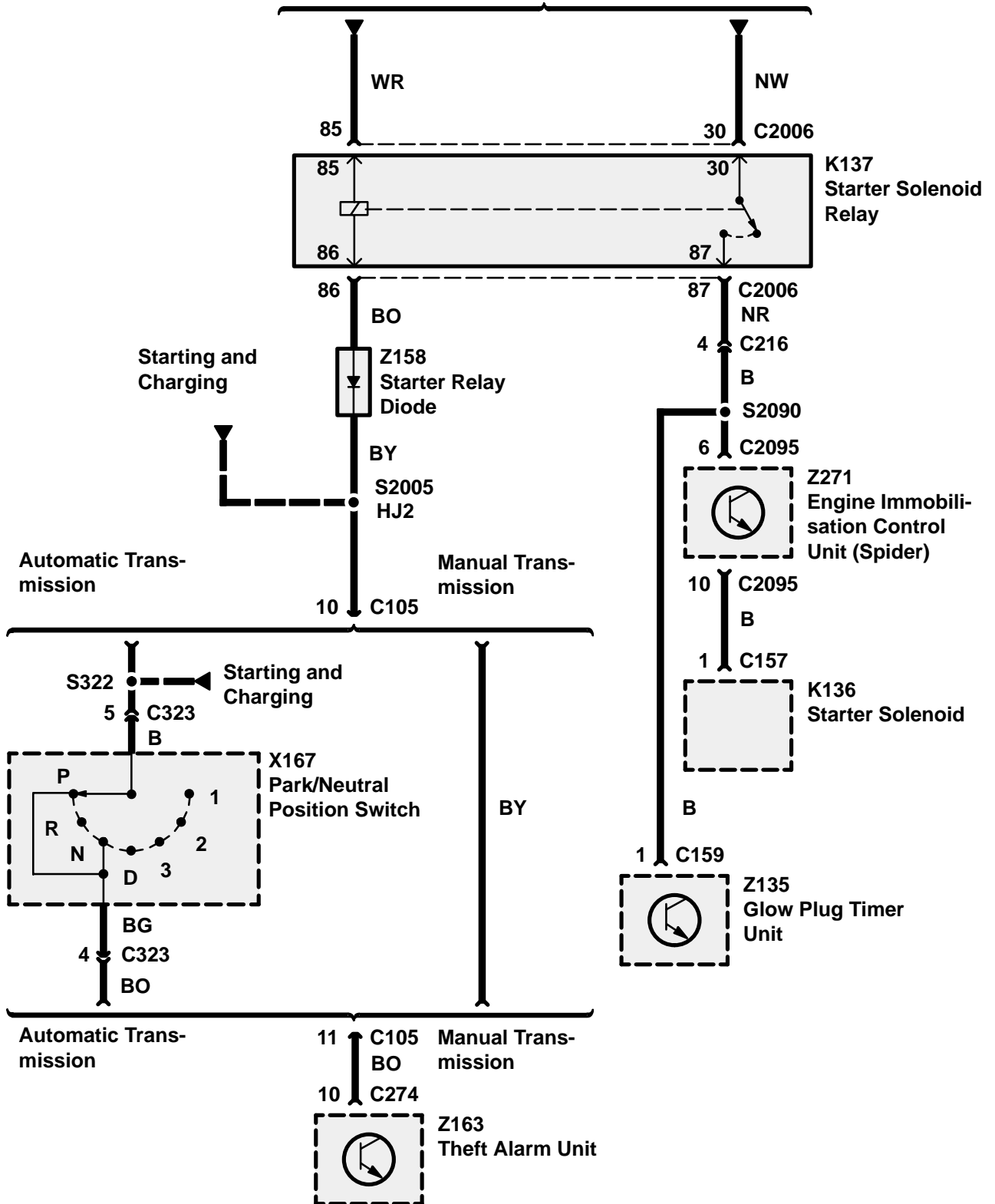


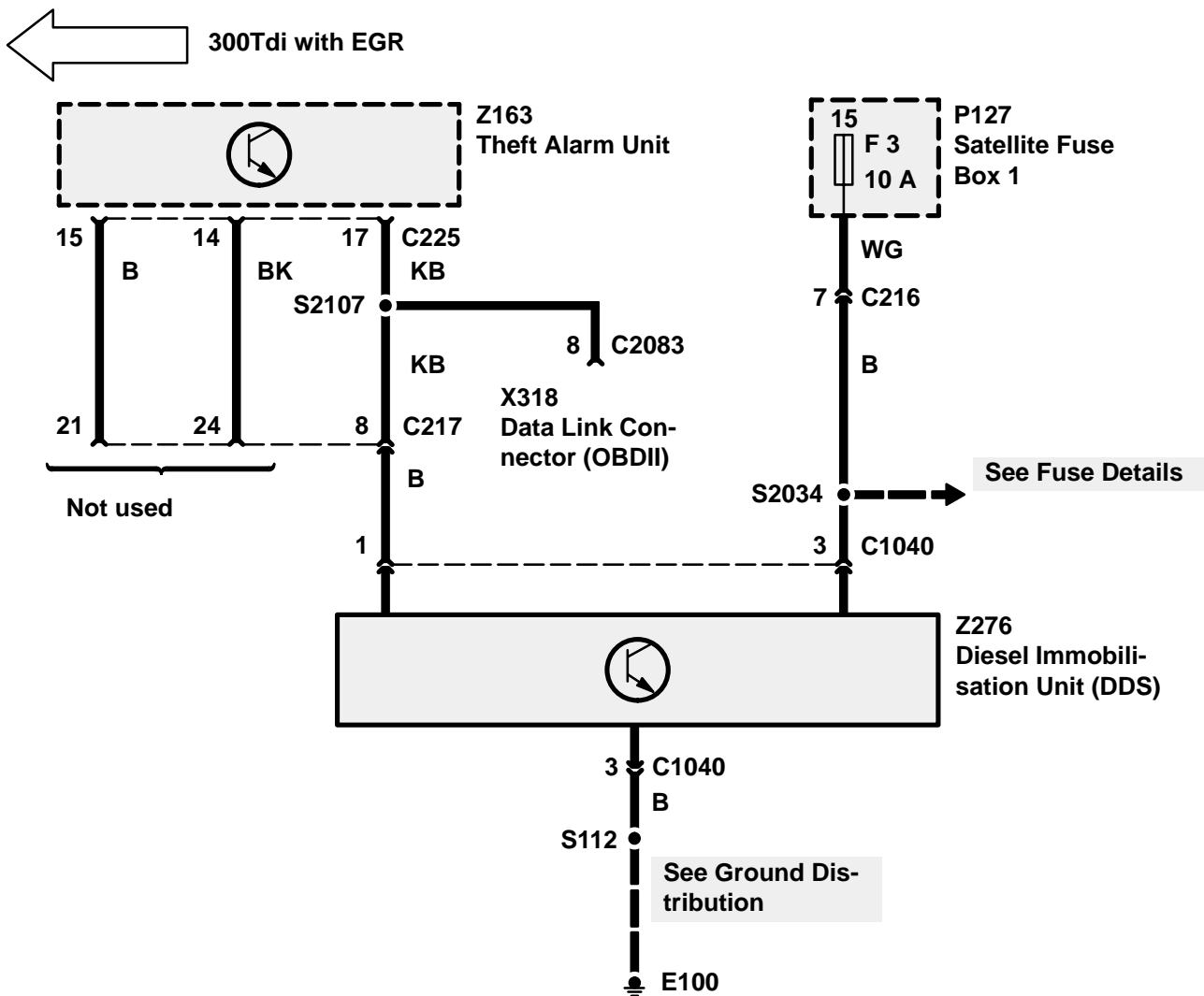


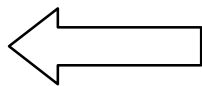


300Tdi without EDC

Starting and Charging

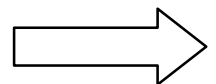
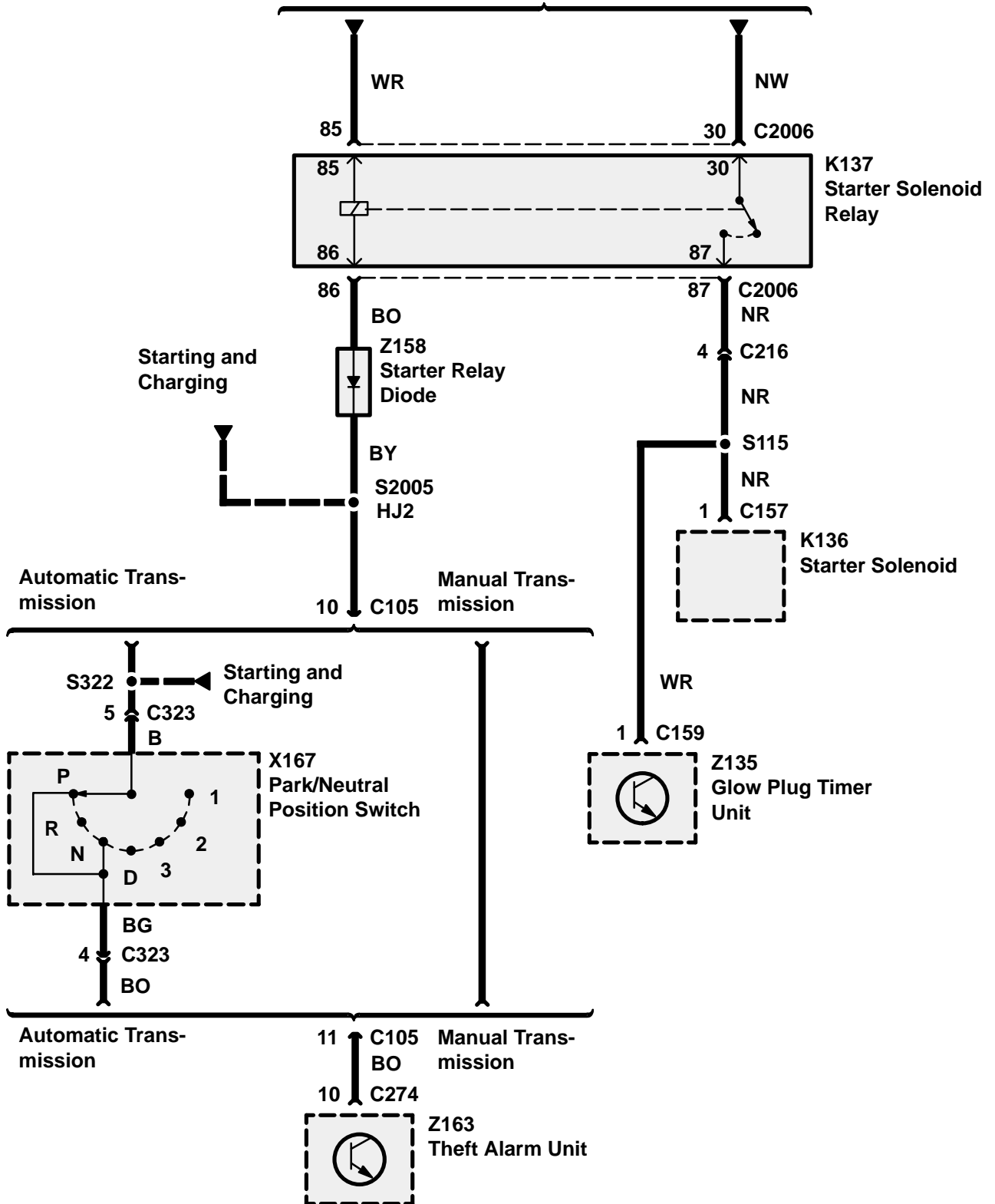


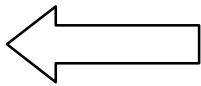
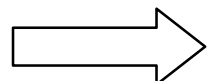
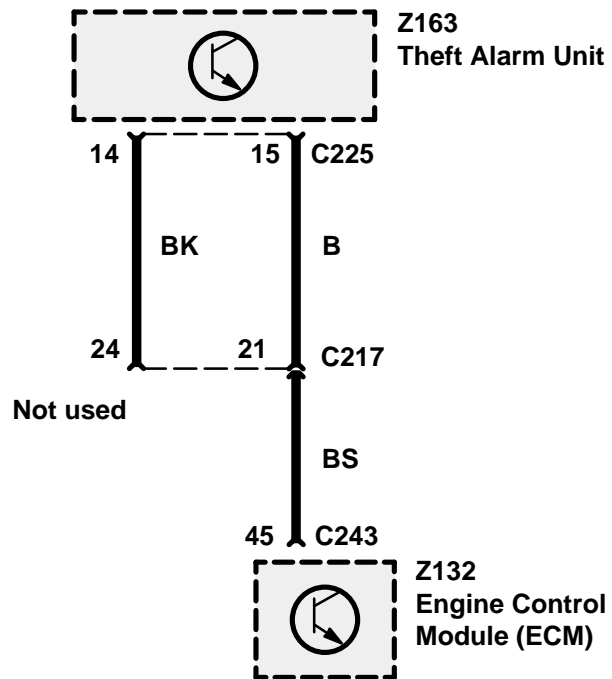


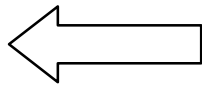


300Tdi with EGR

Starting and Charging

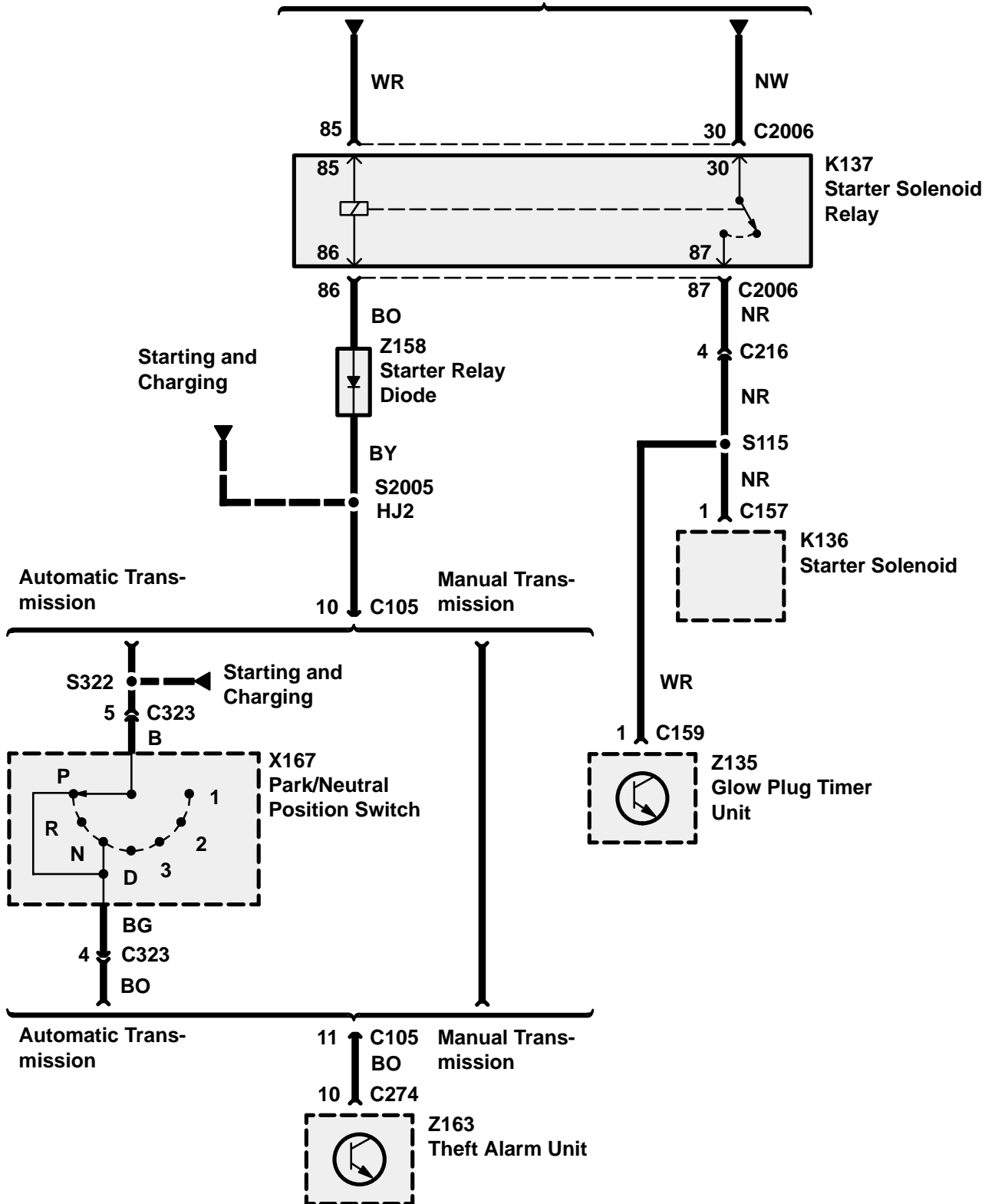


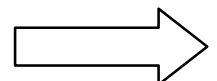
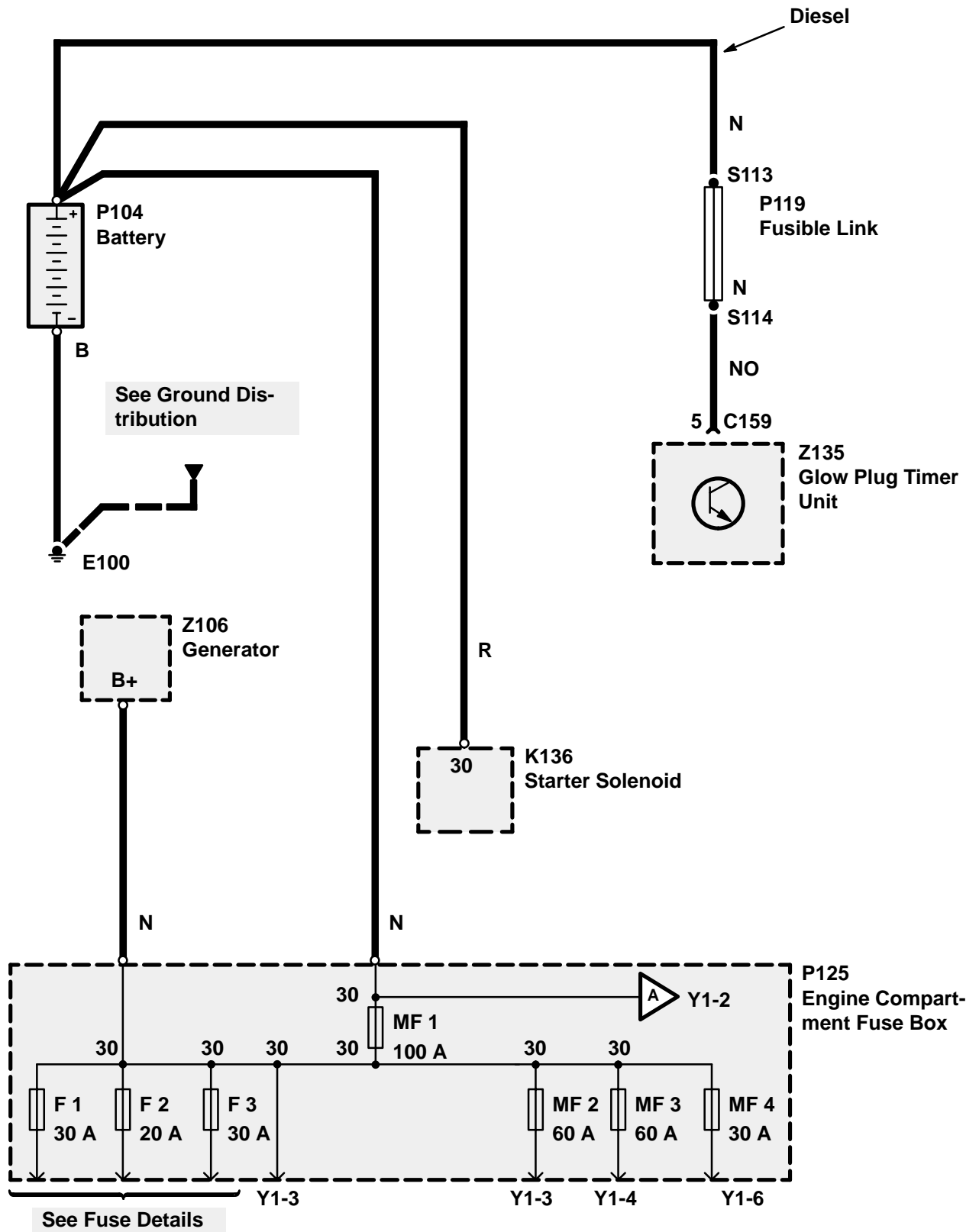
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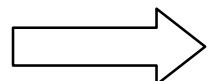
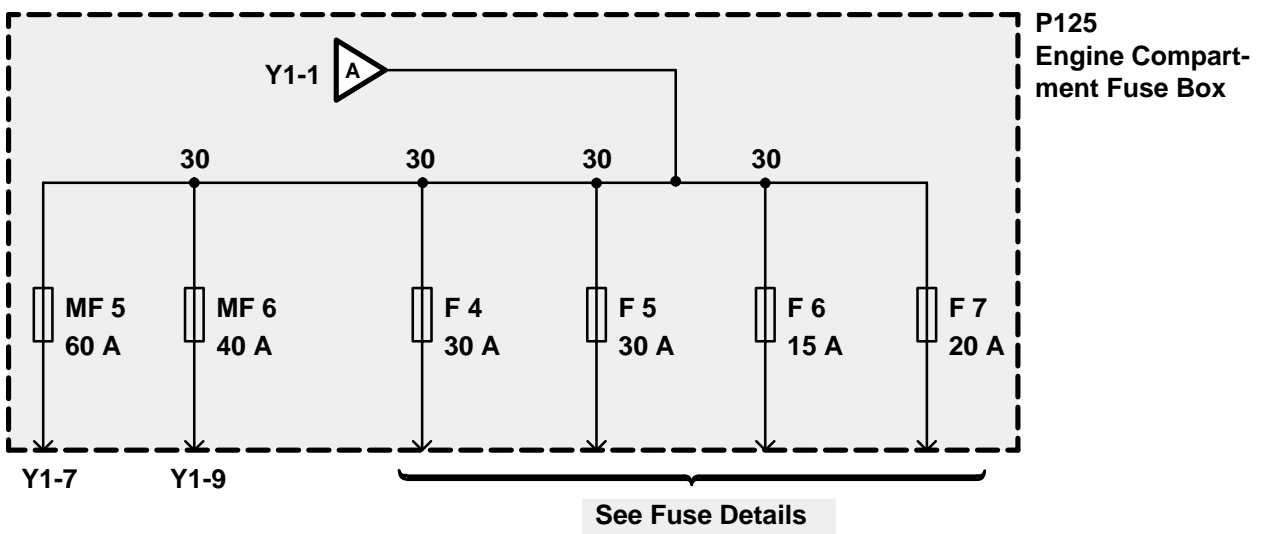
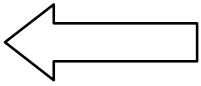


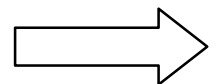
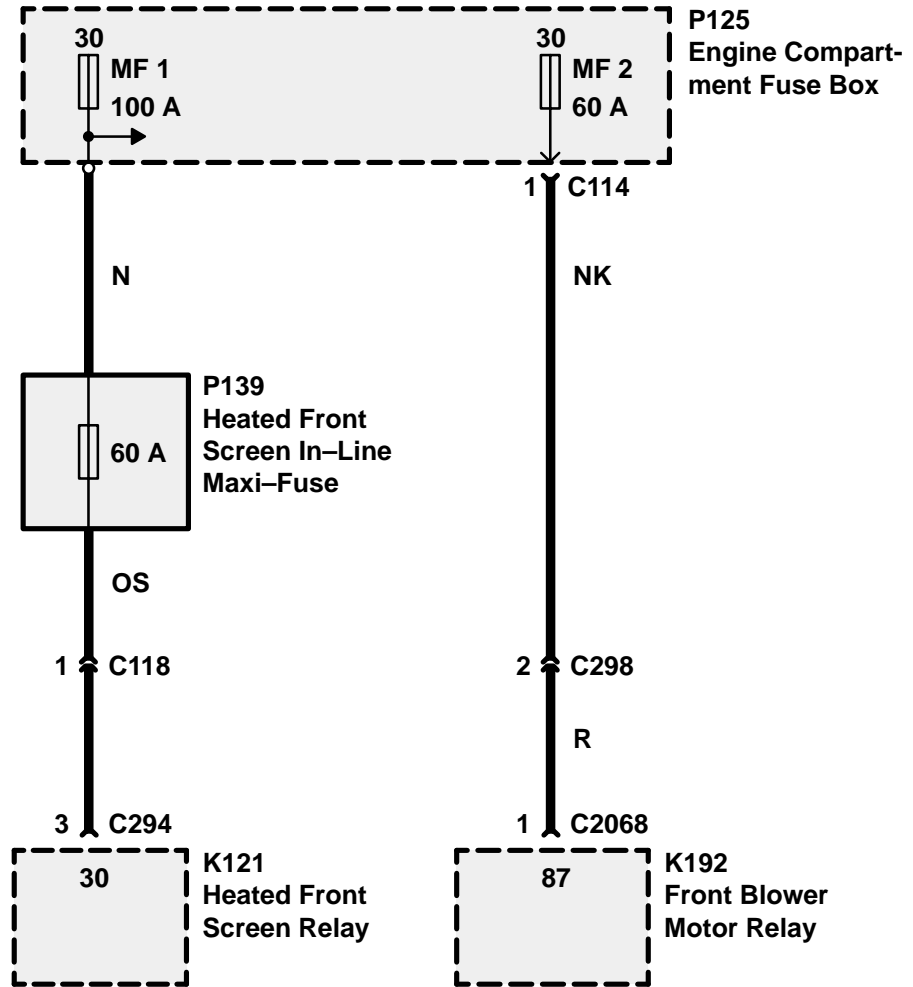
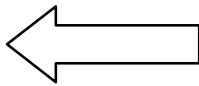
300Tdi with EDC

Starting and Charging

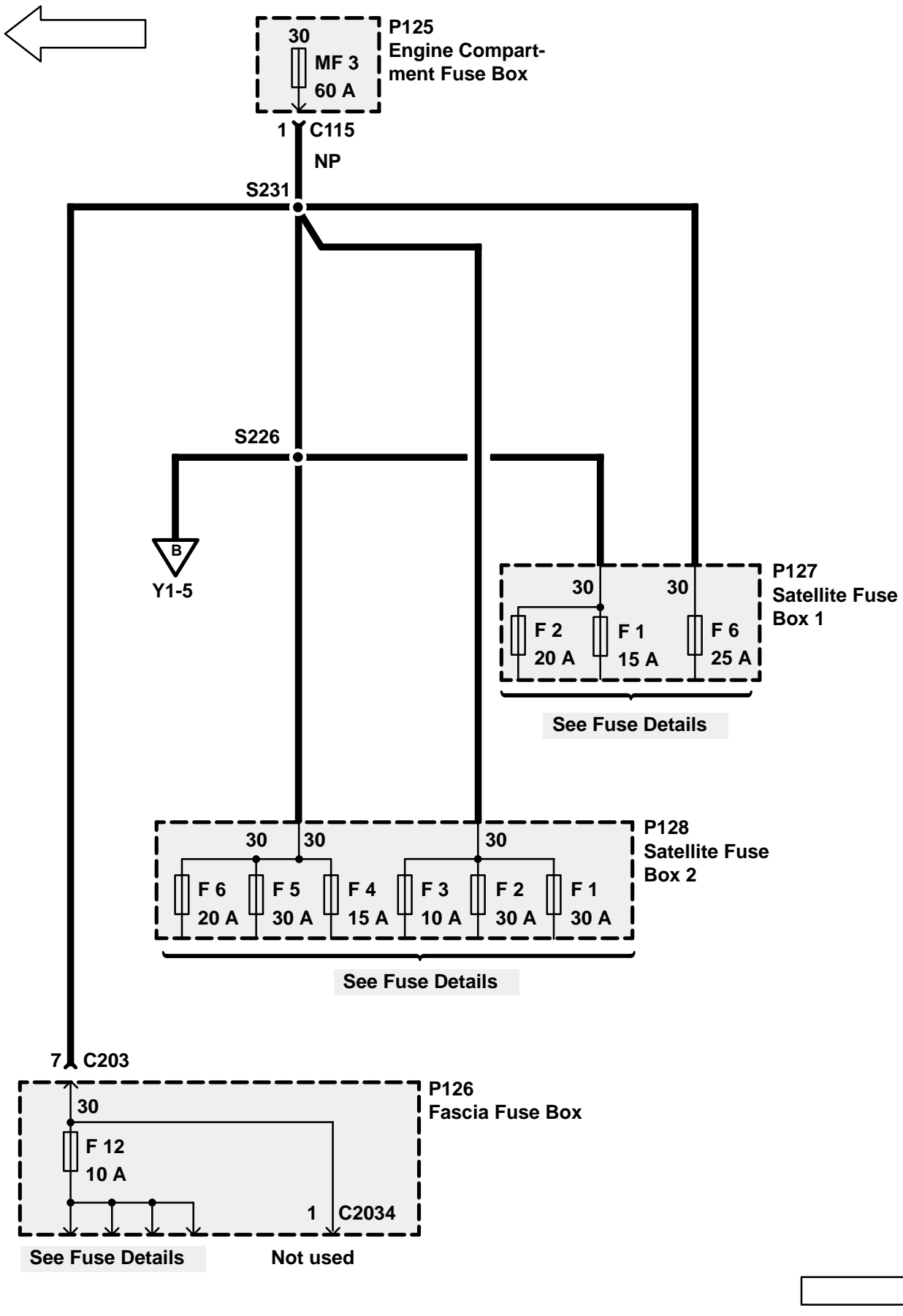


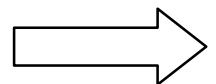
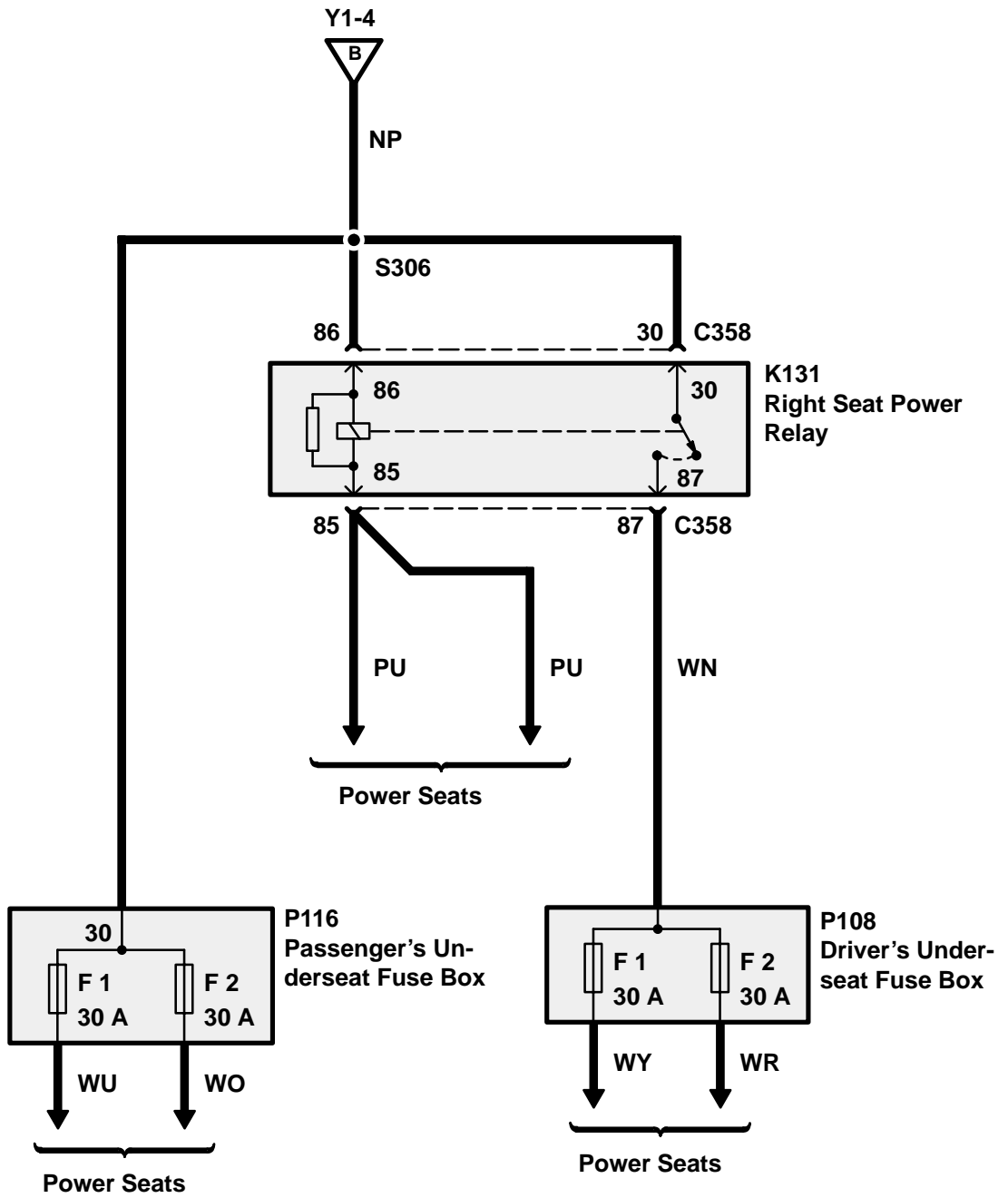
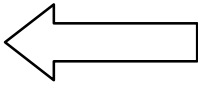


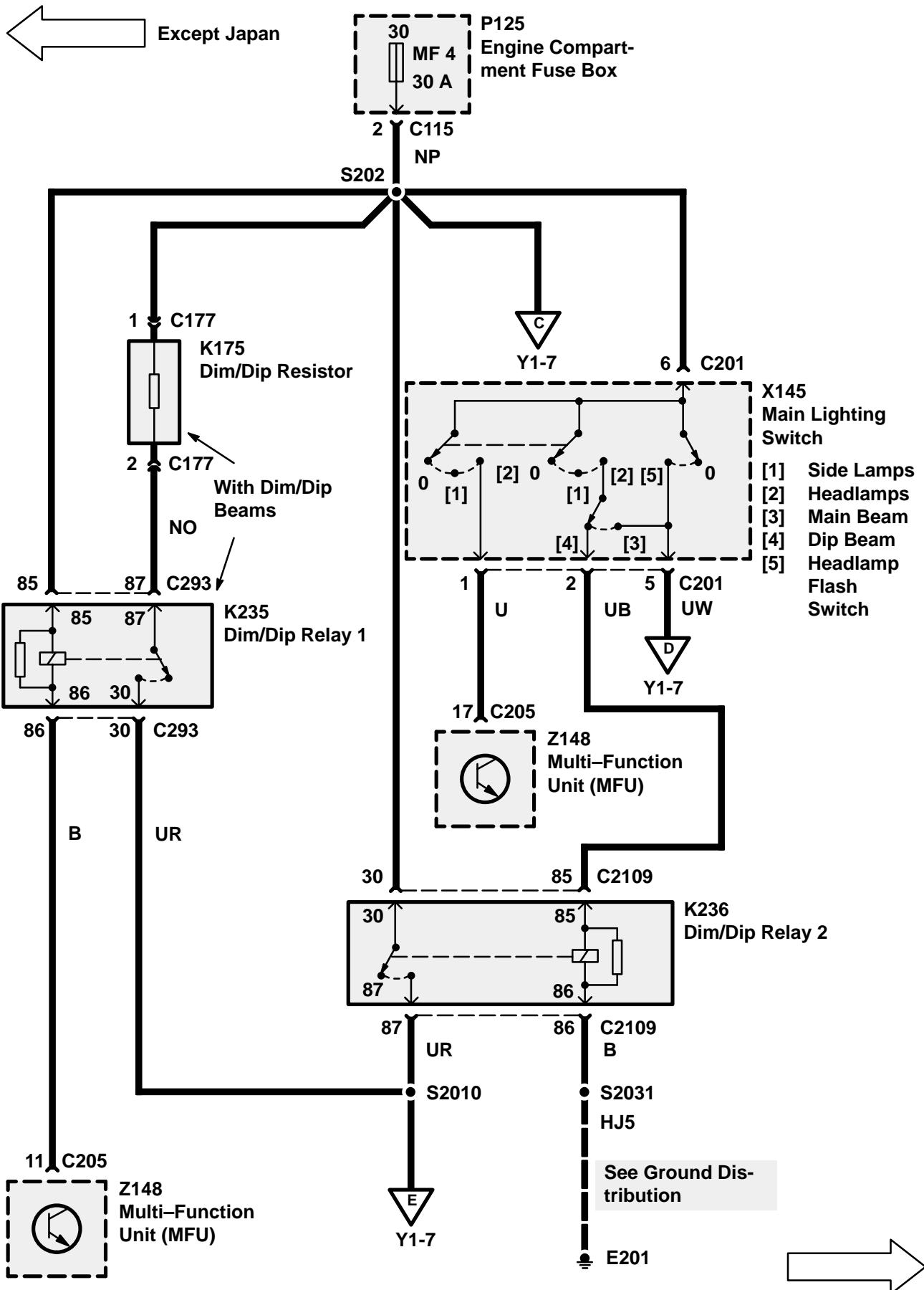


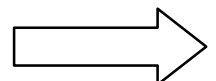
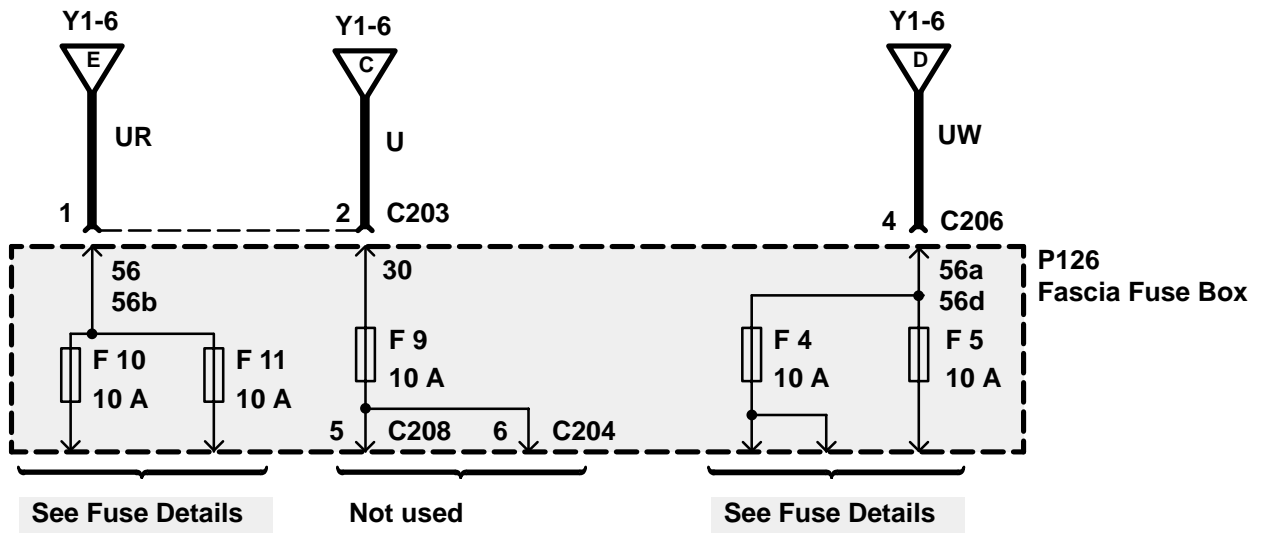
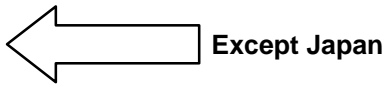


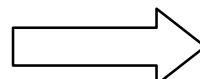
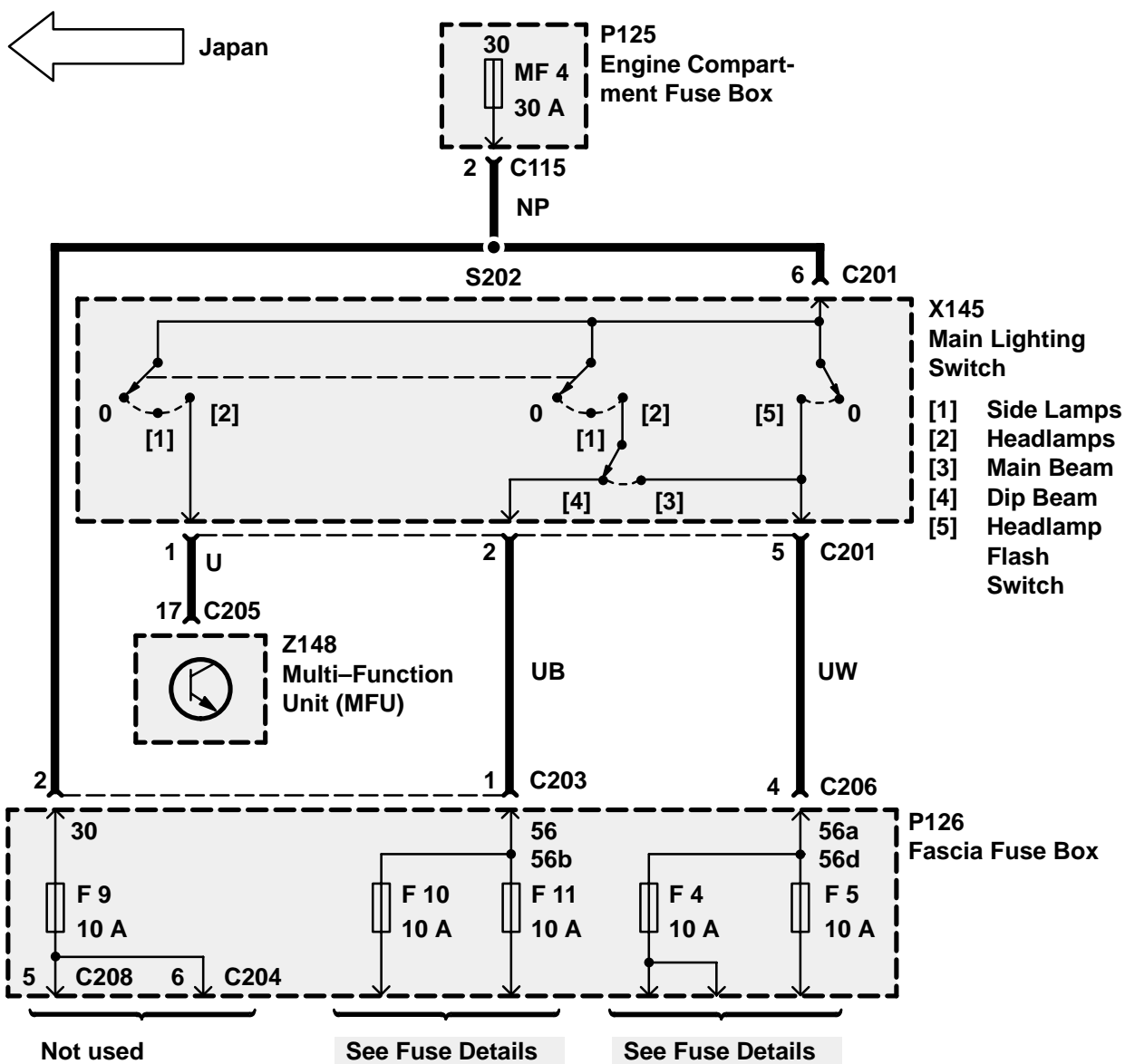


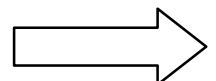
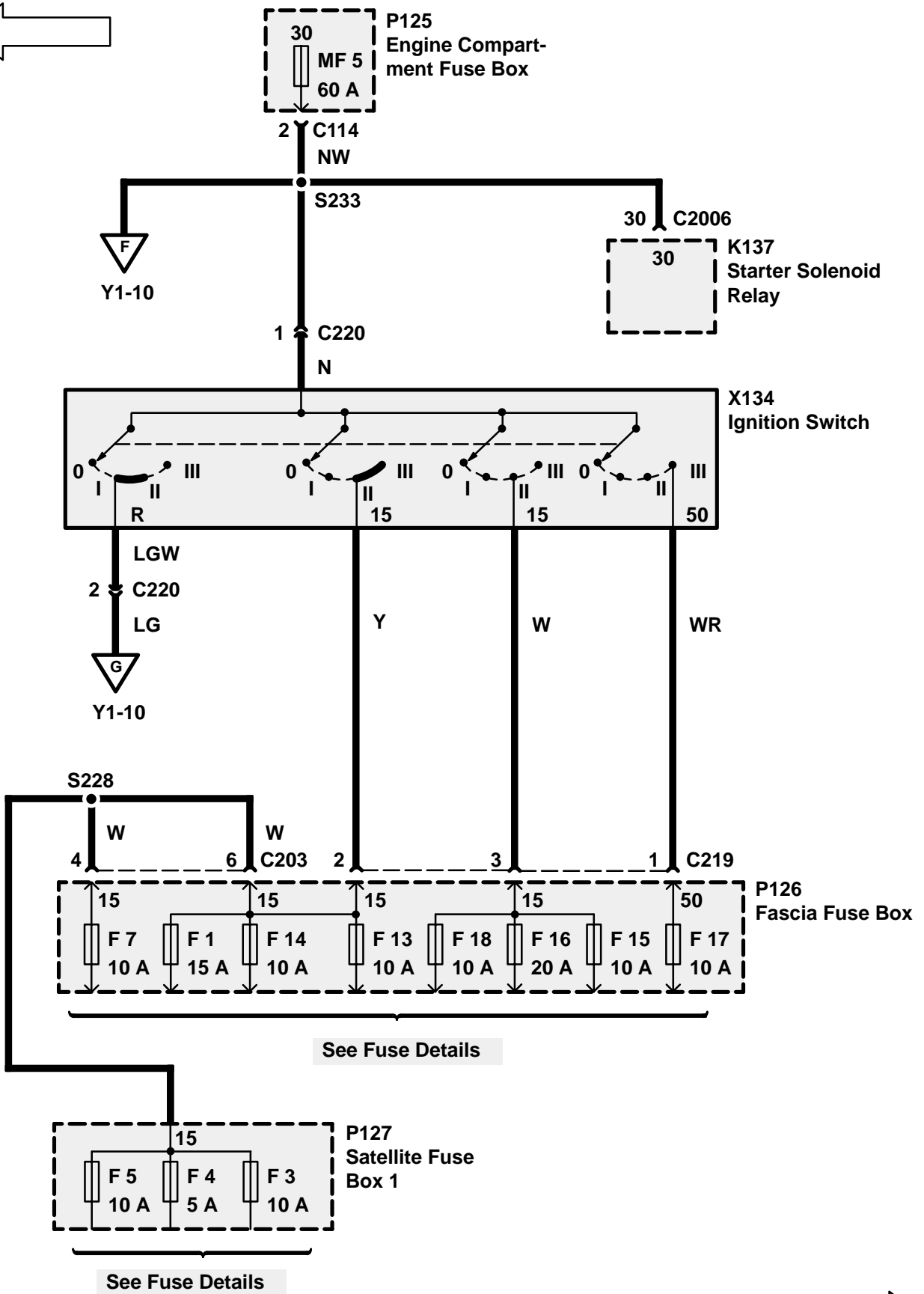
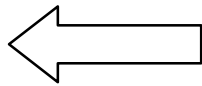


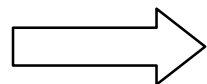
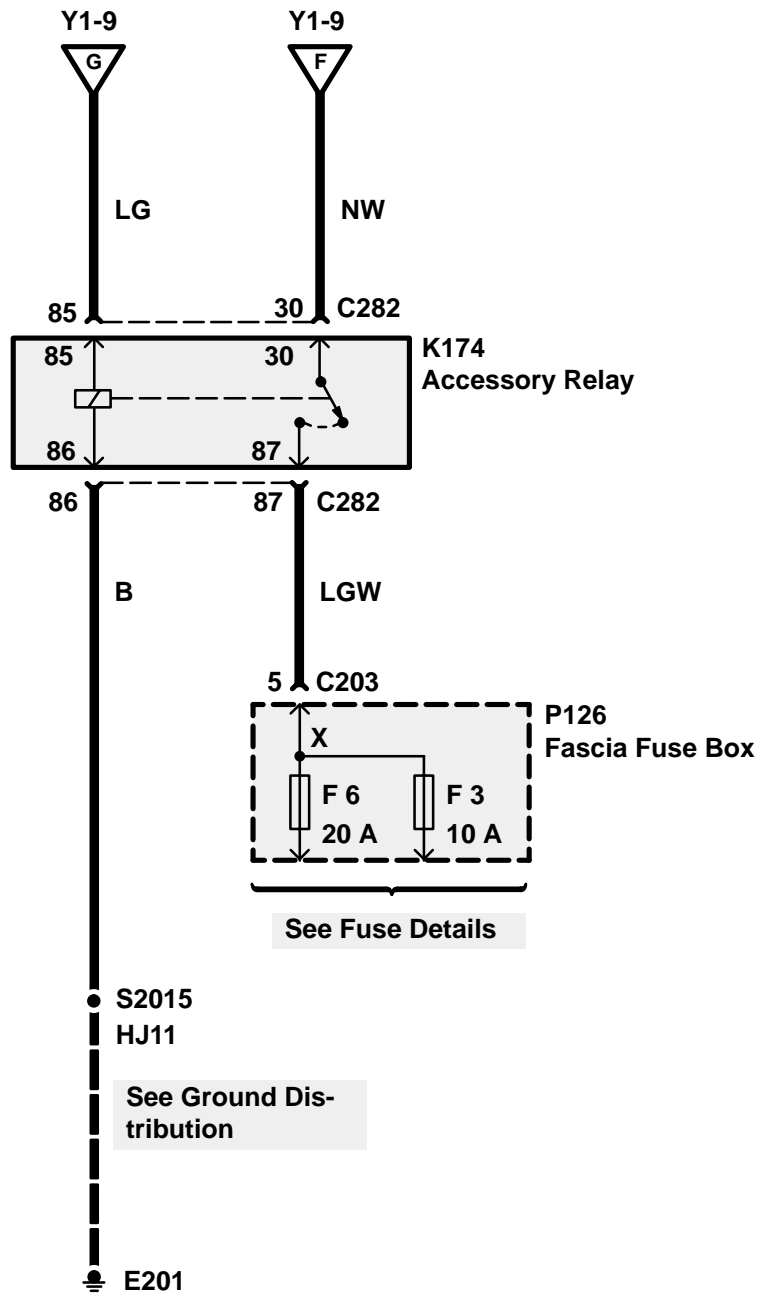
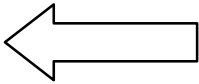


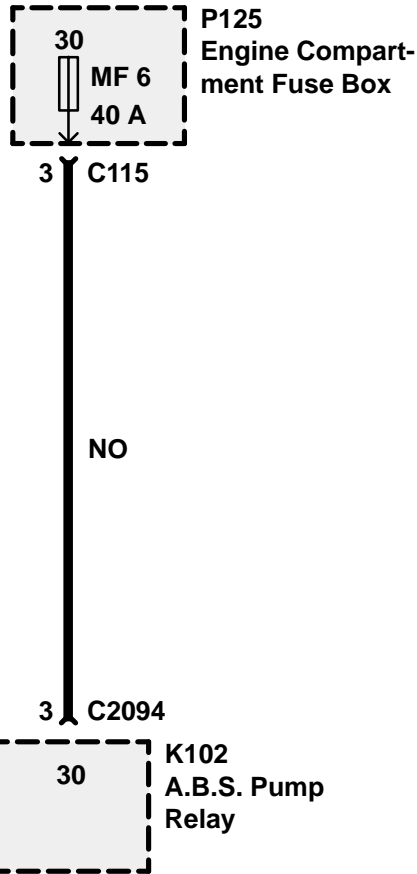




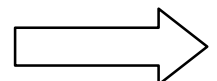
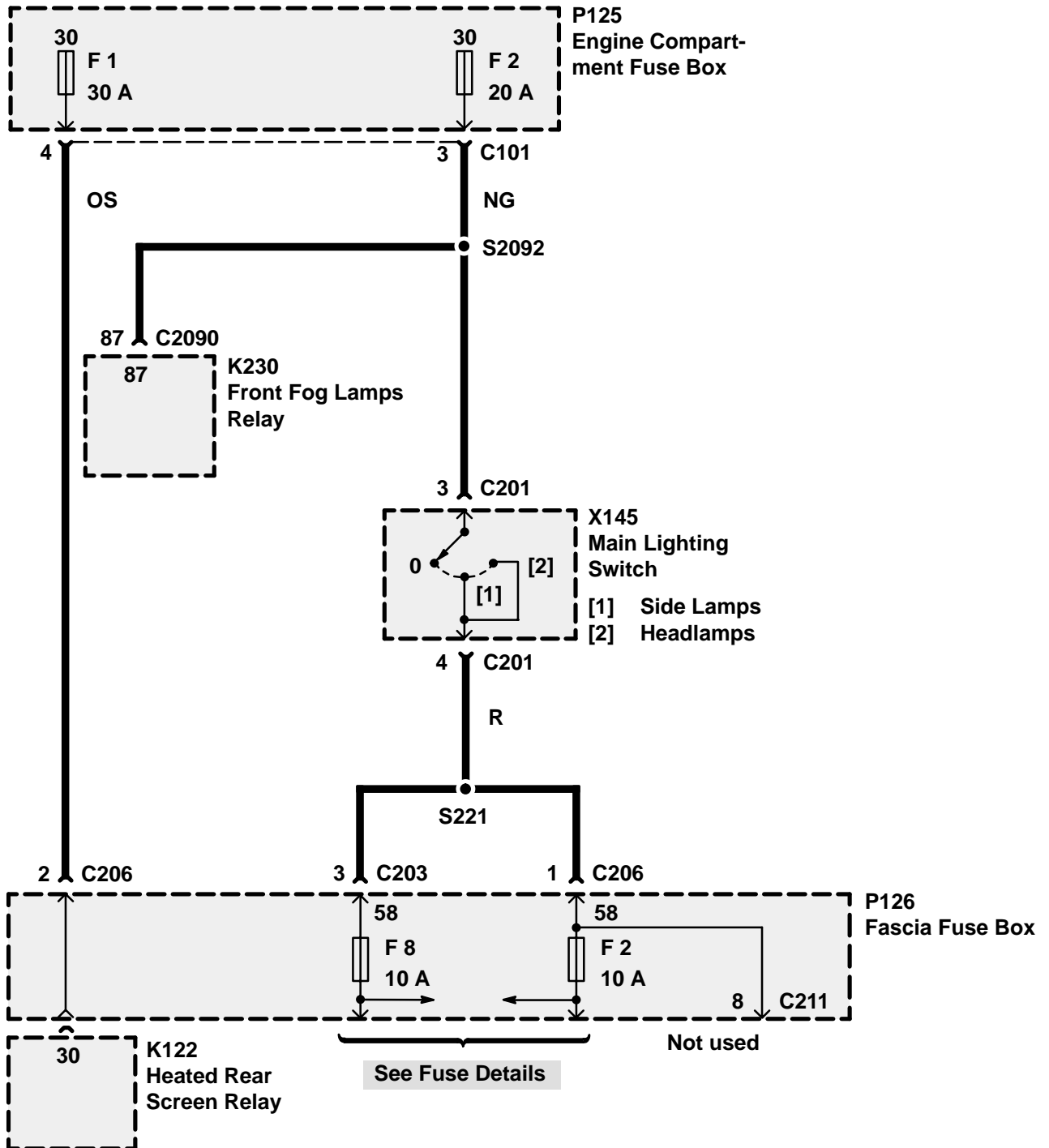


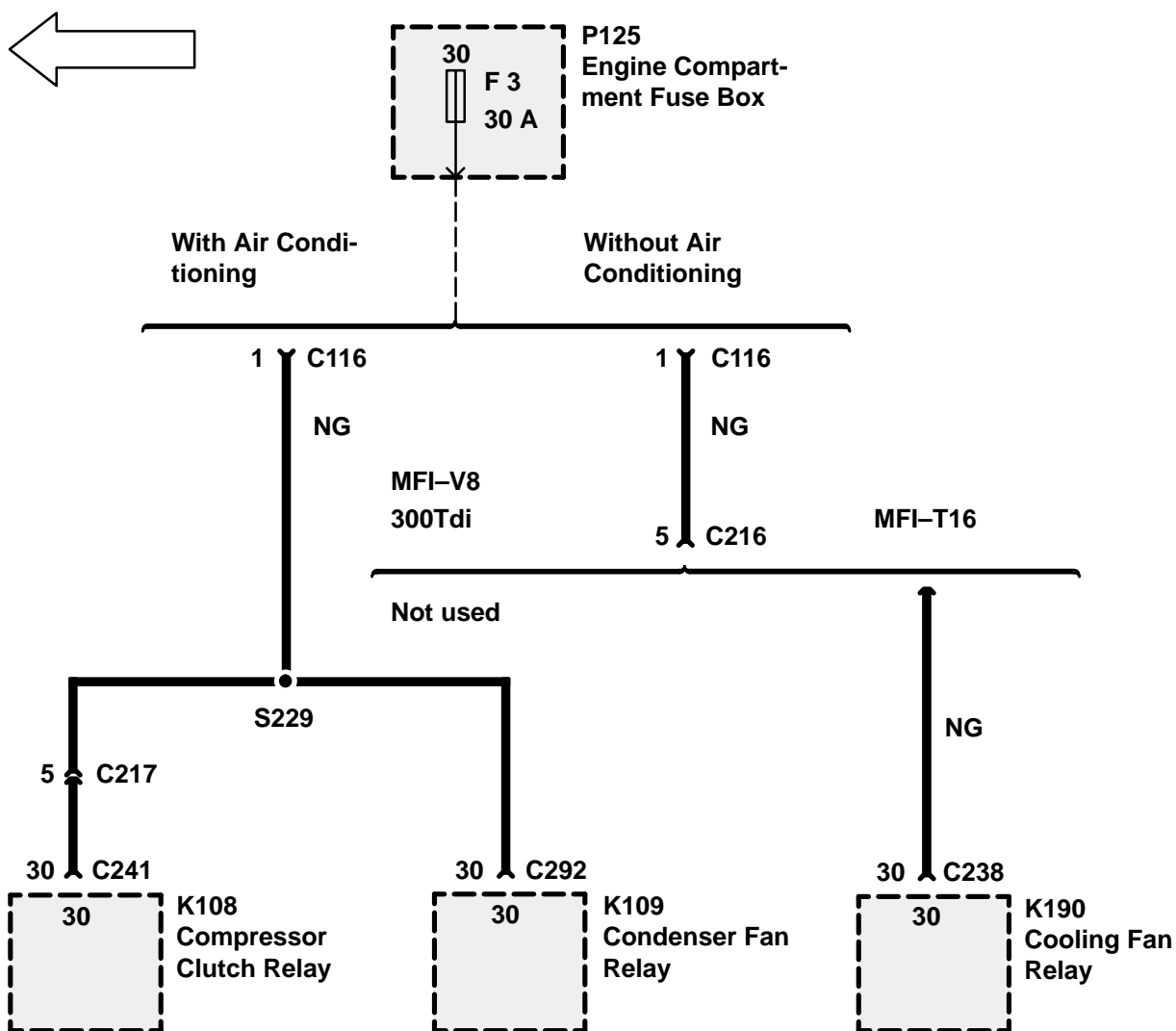


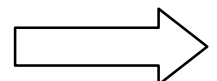
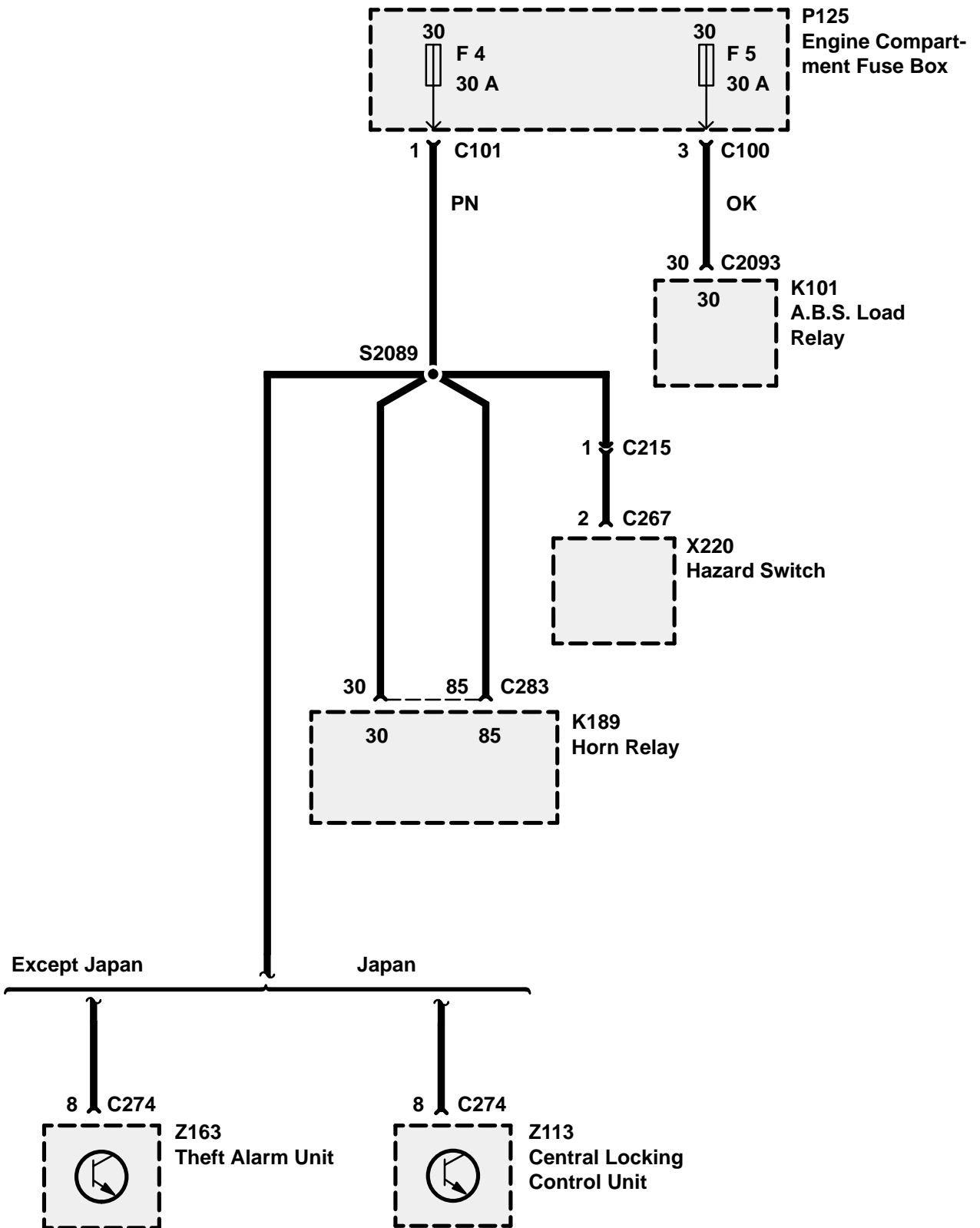
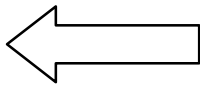


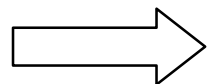
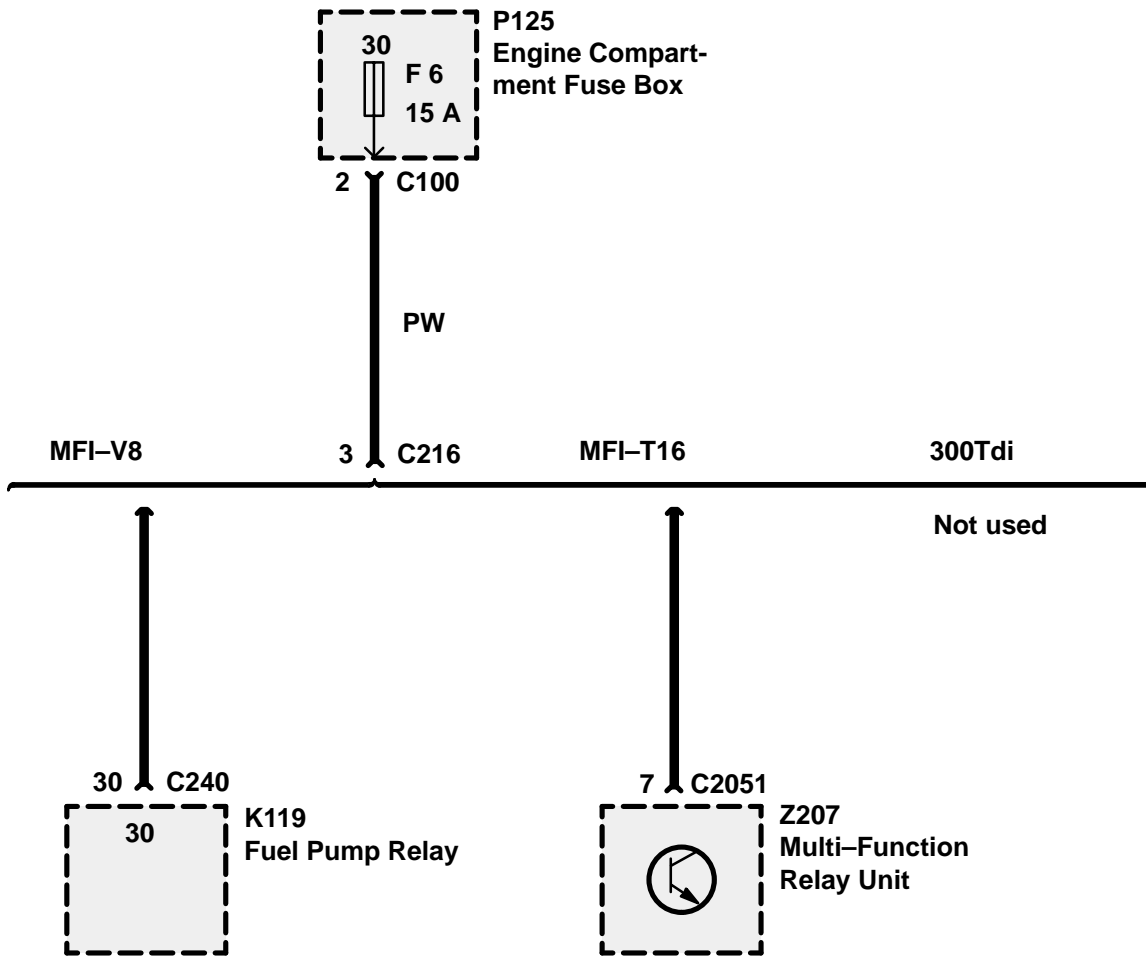
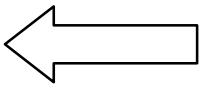


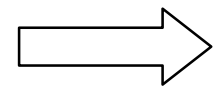
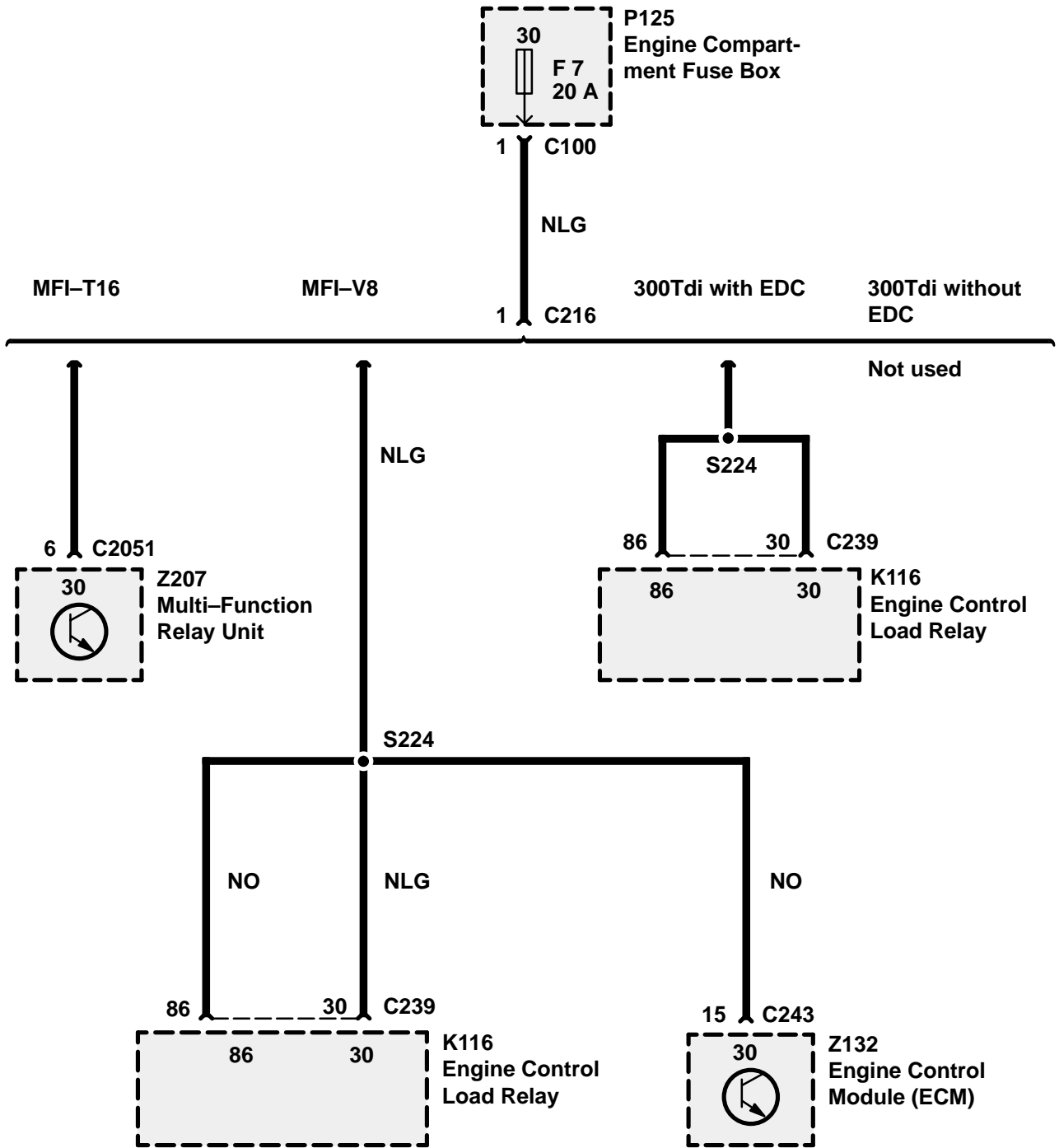
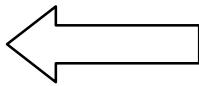


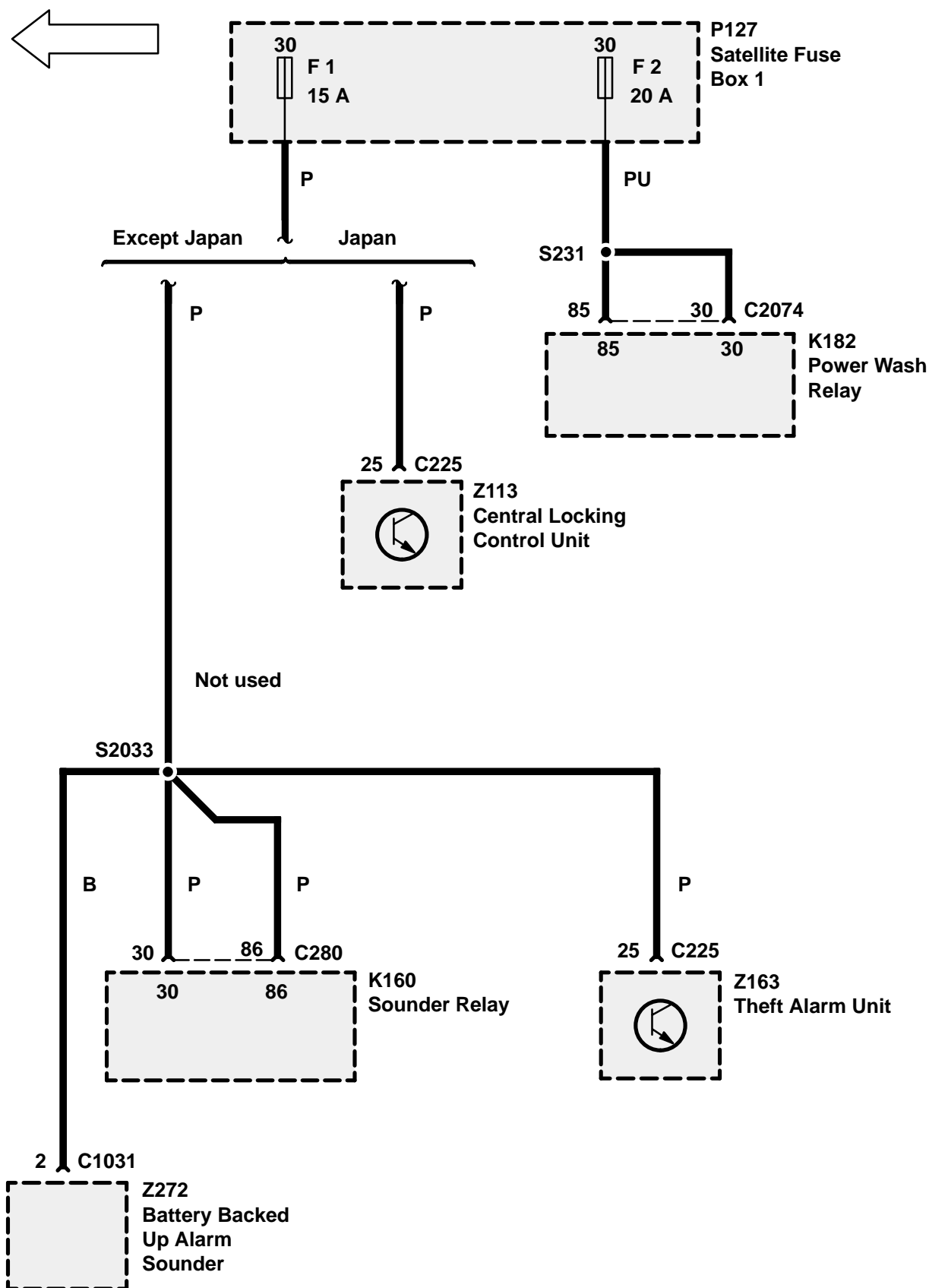


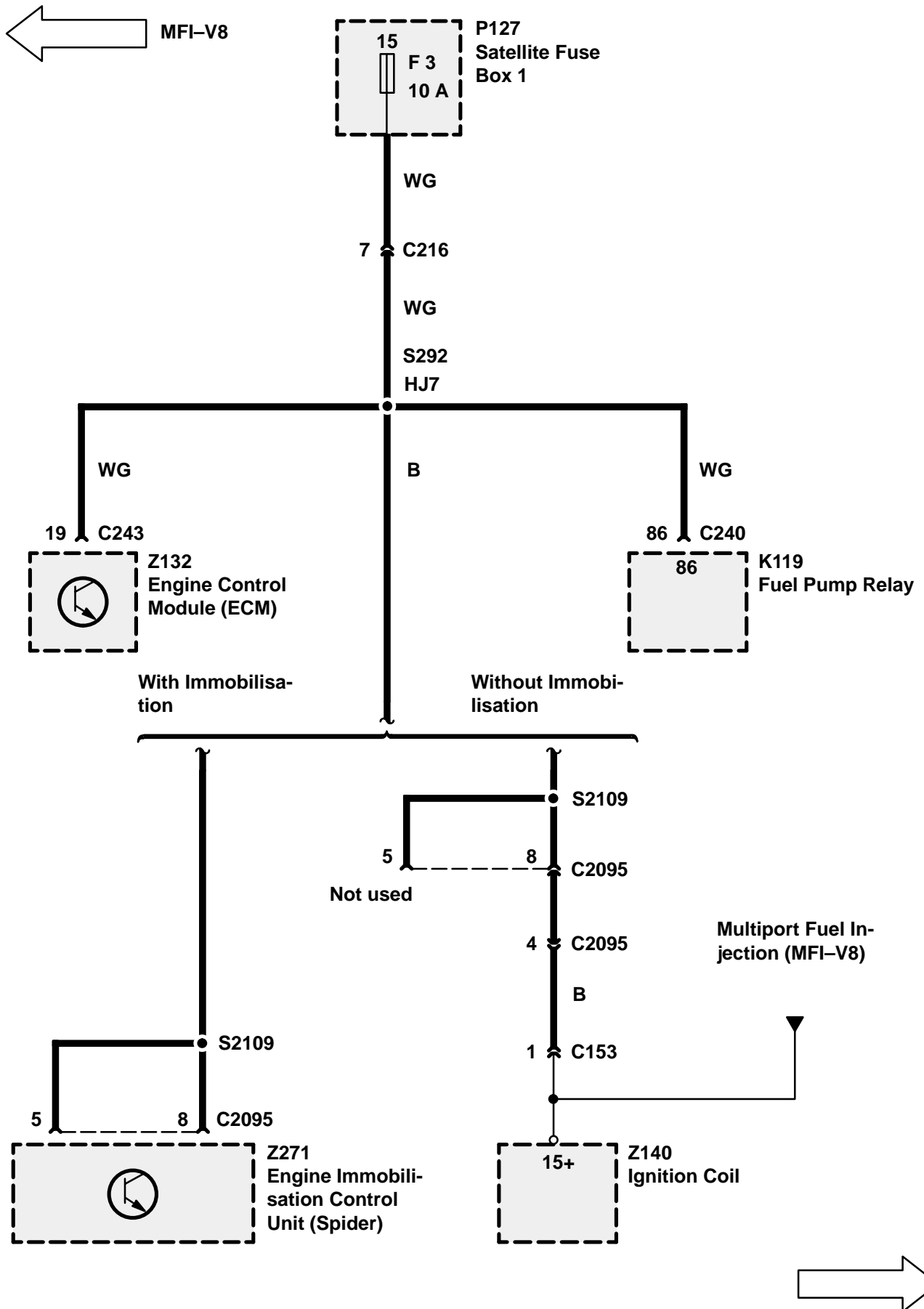


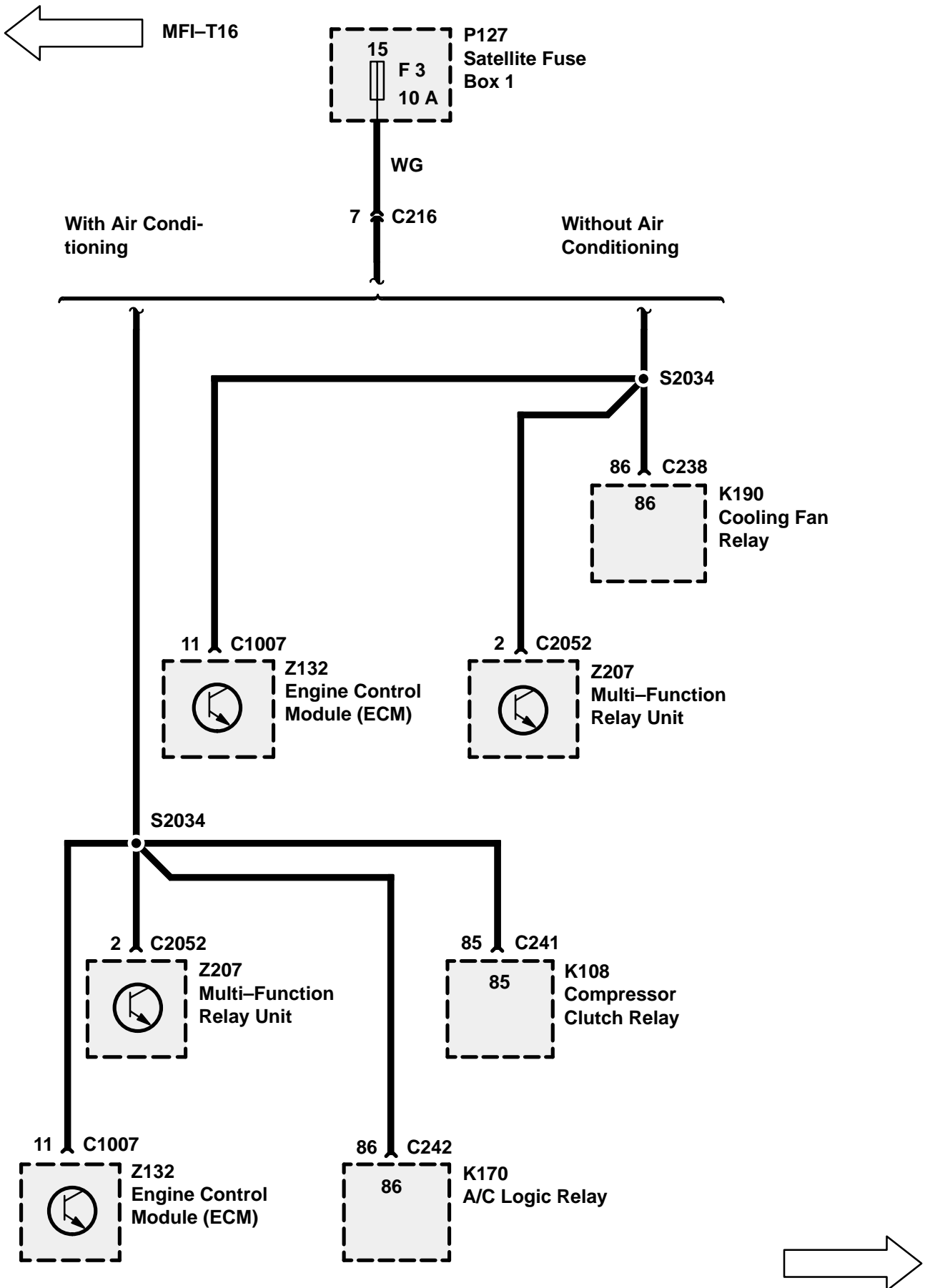




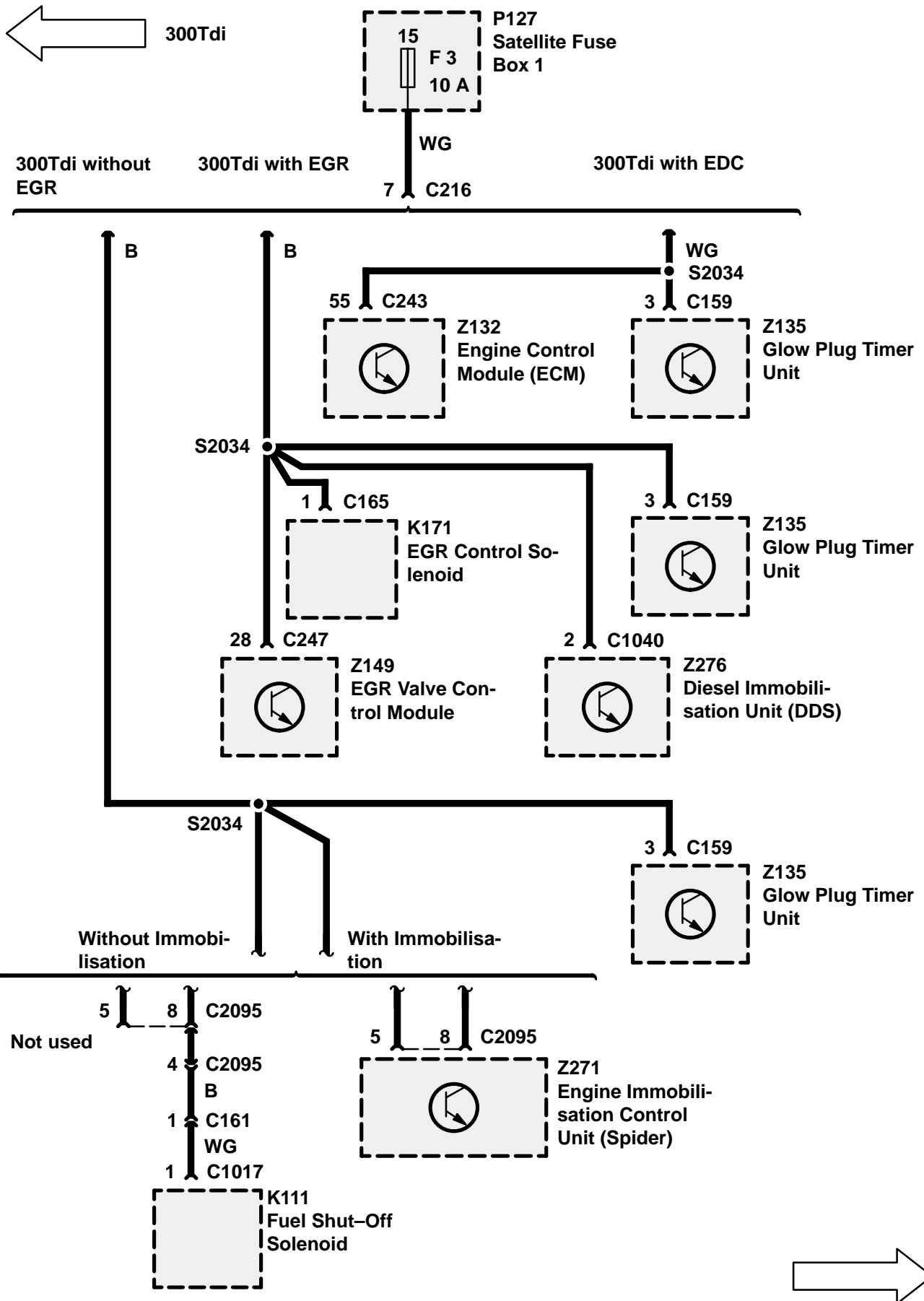


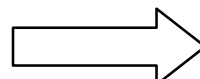
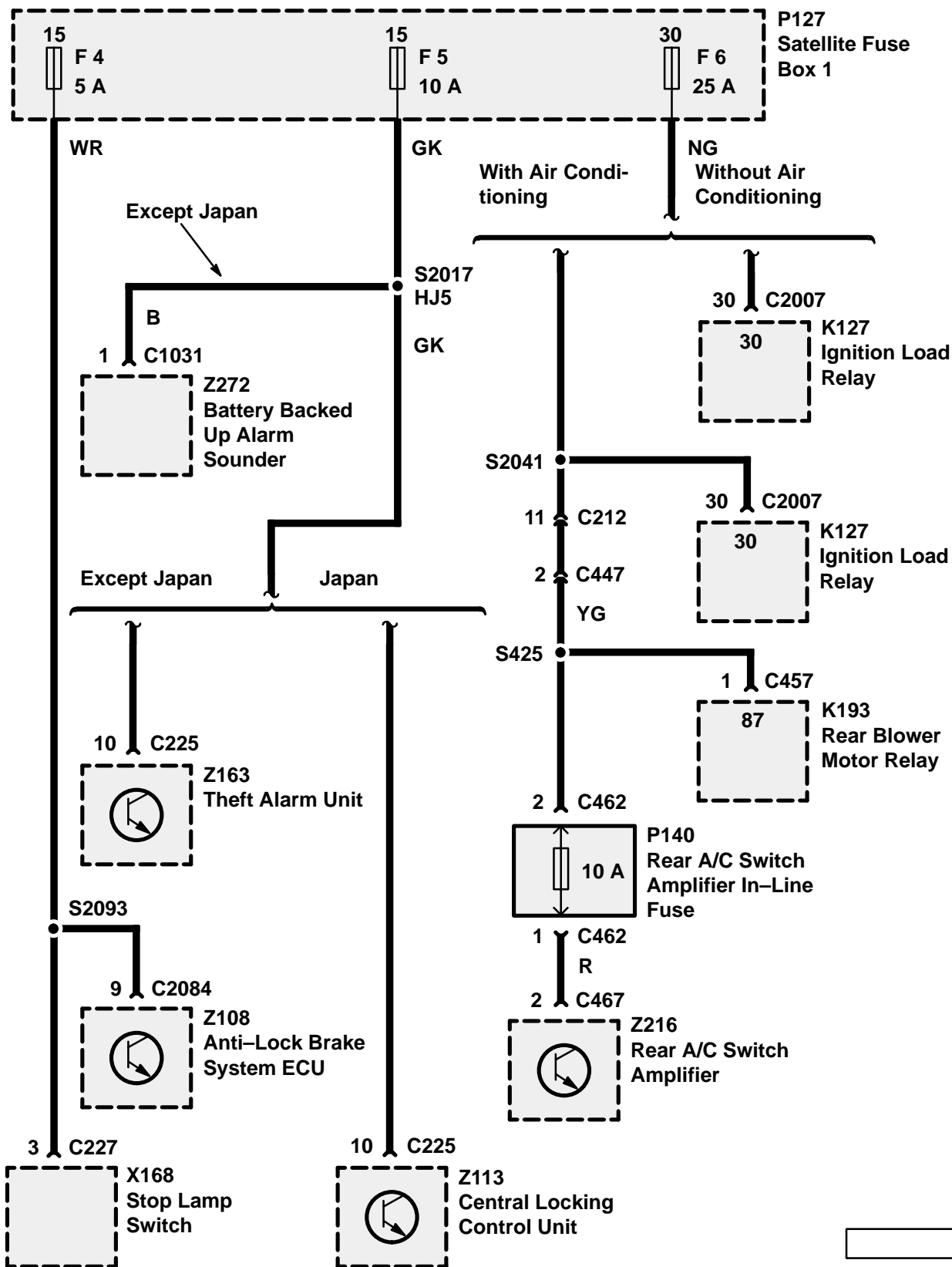
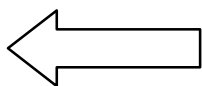


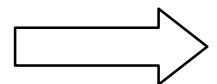
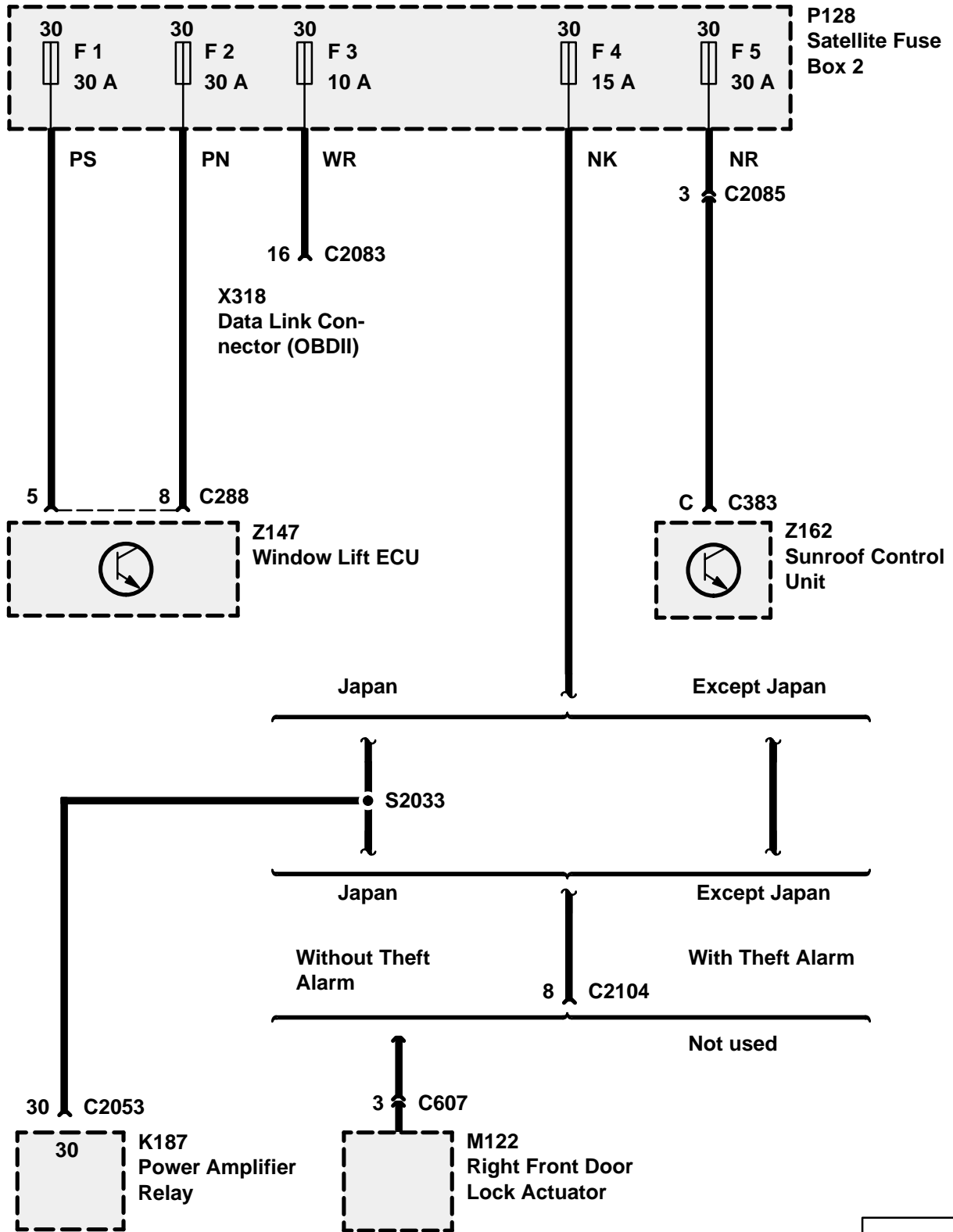
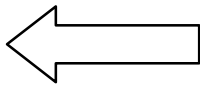


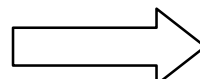
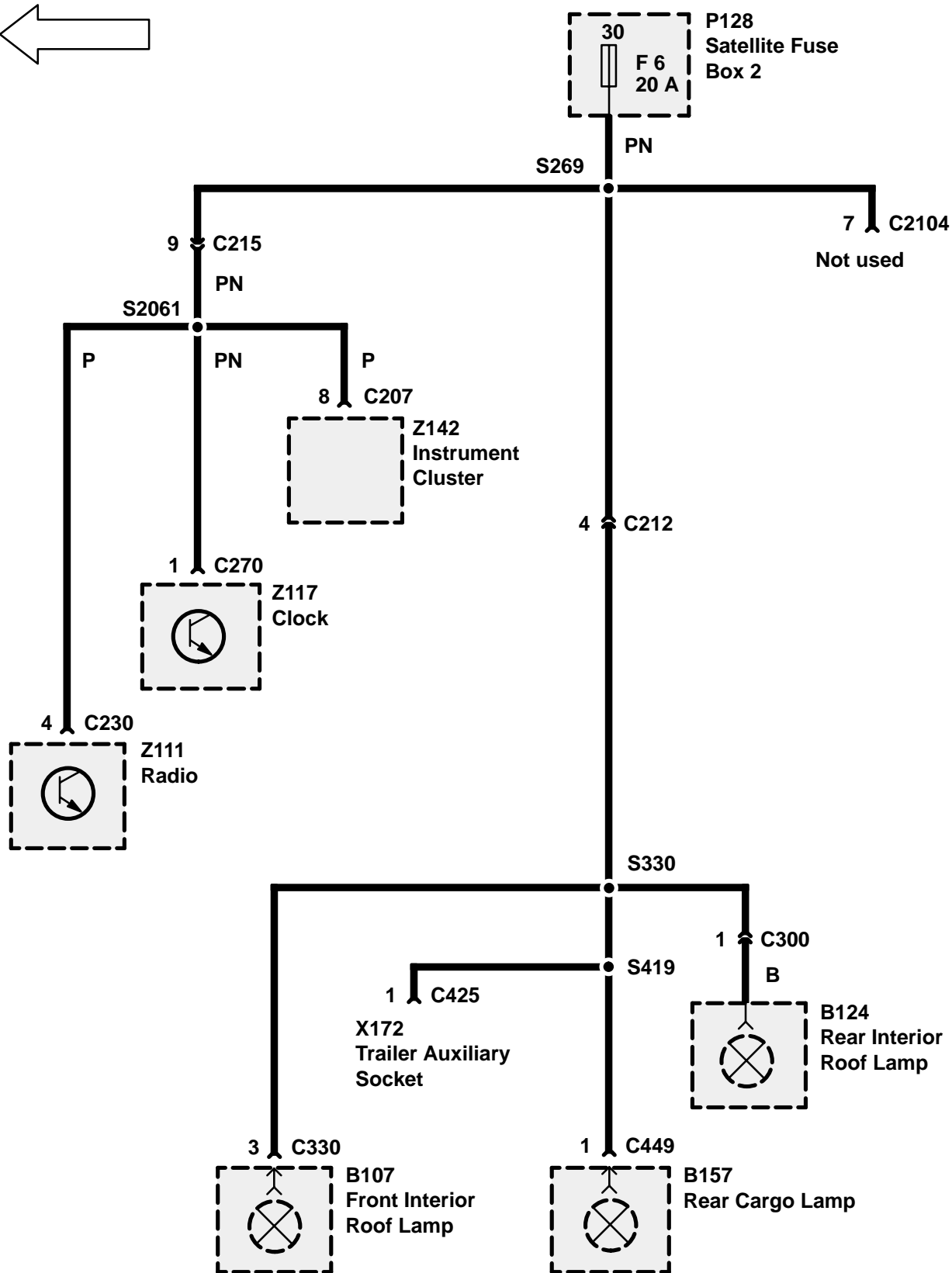
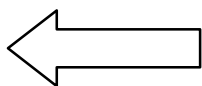


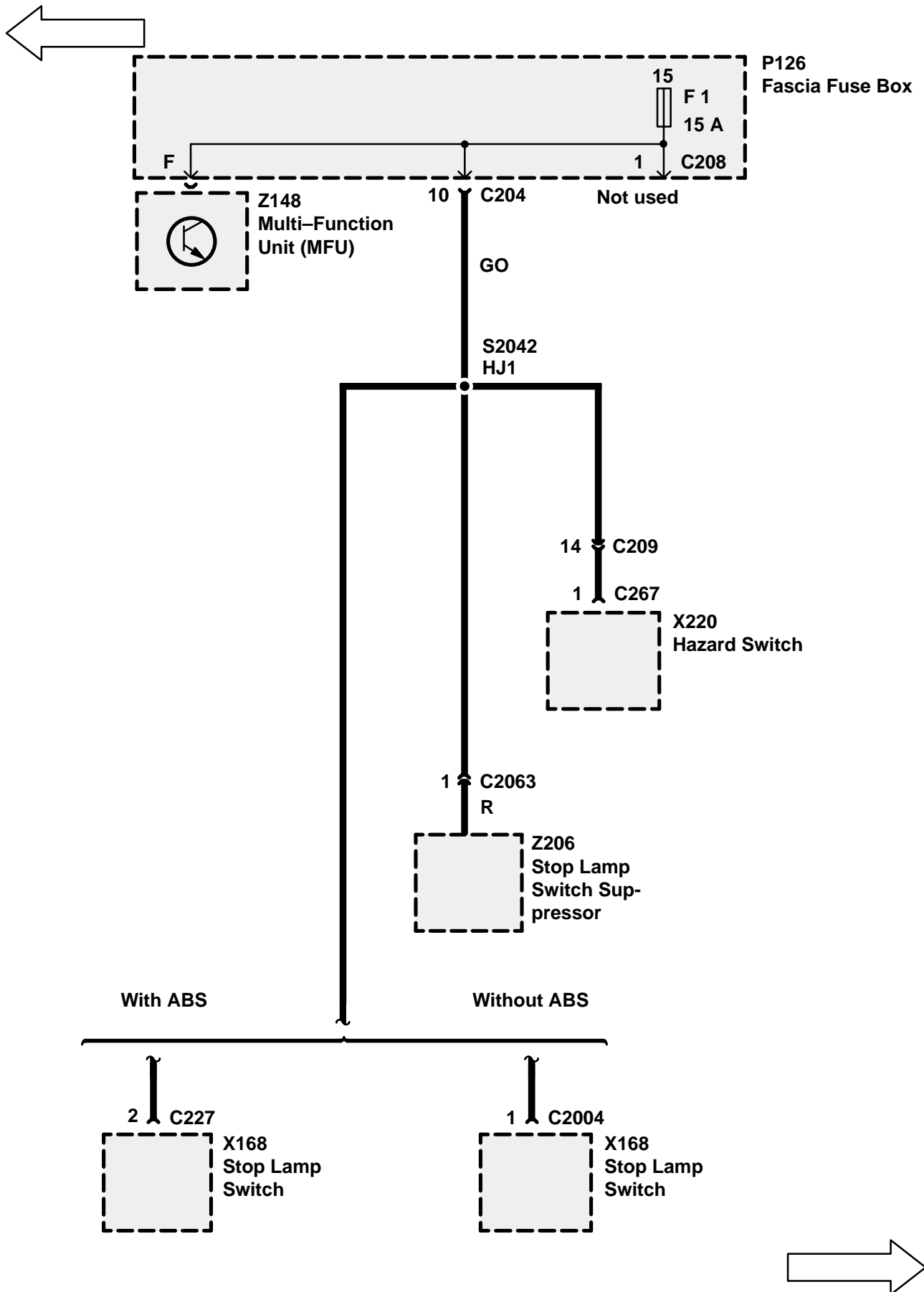


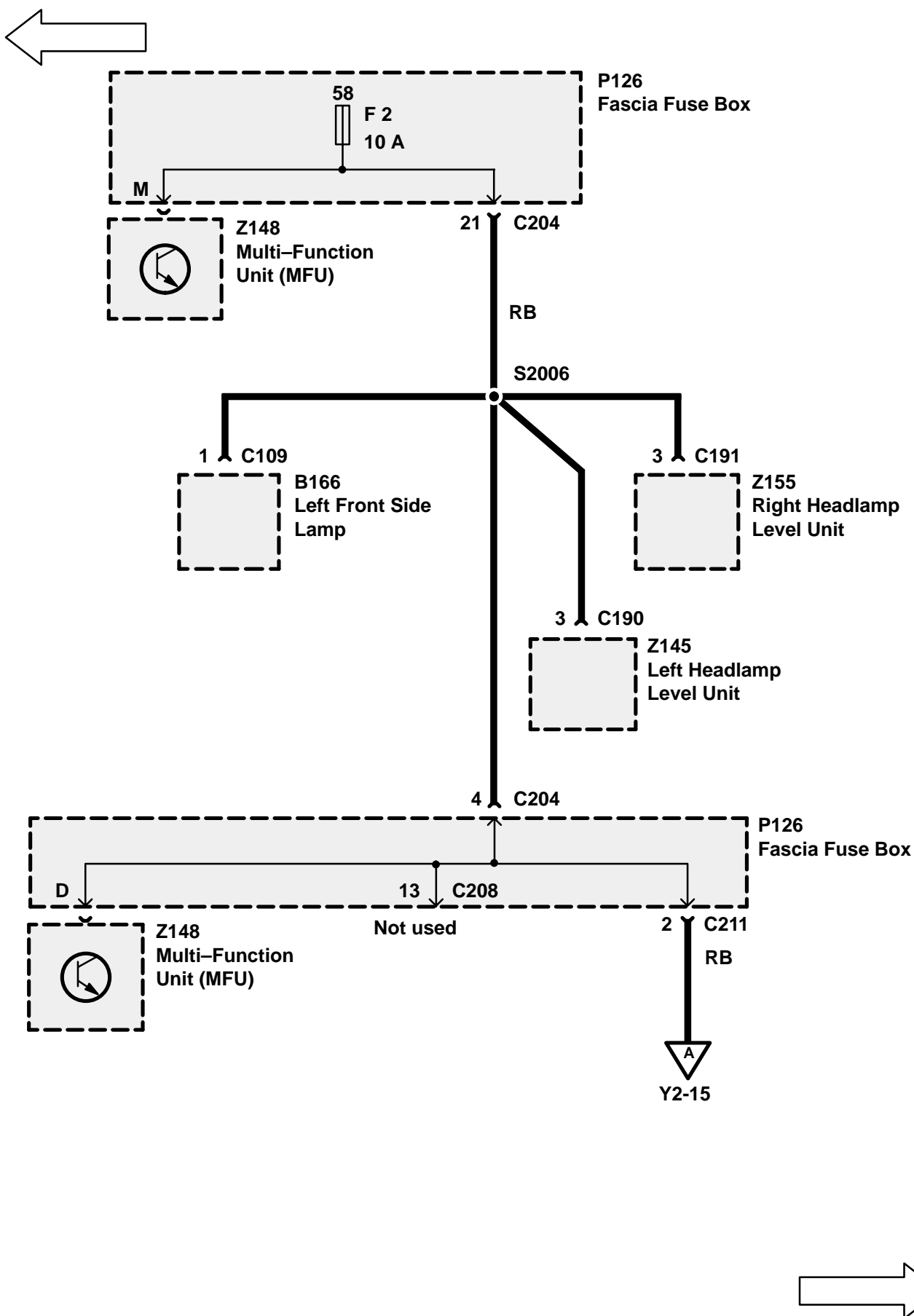


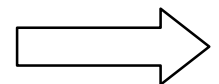
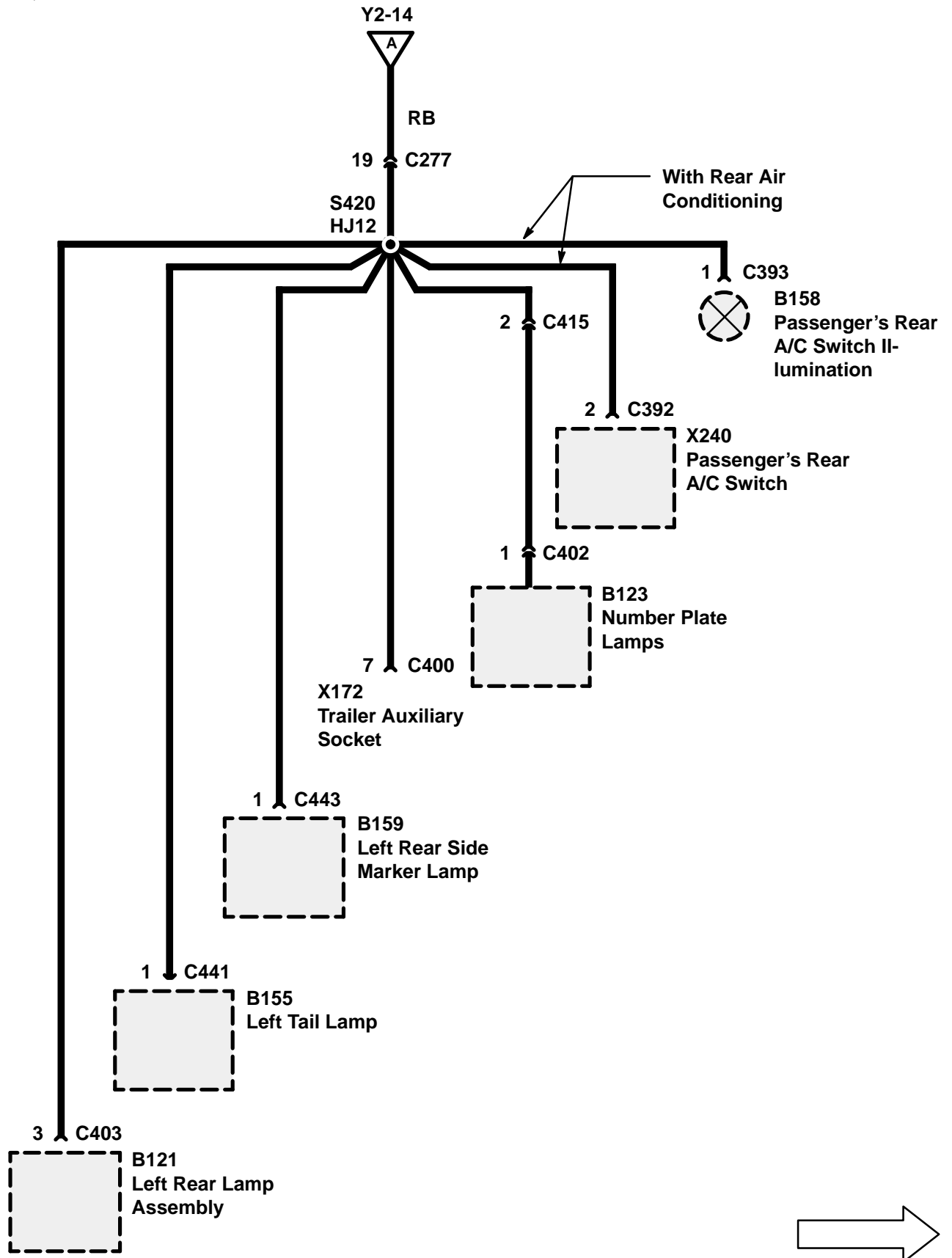
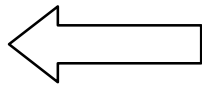


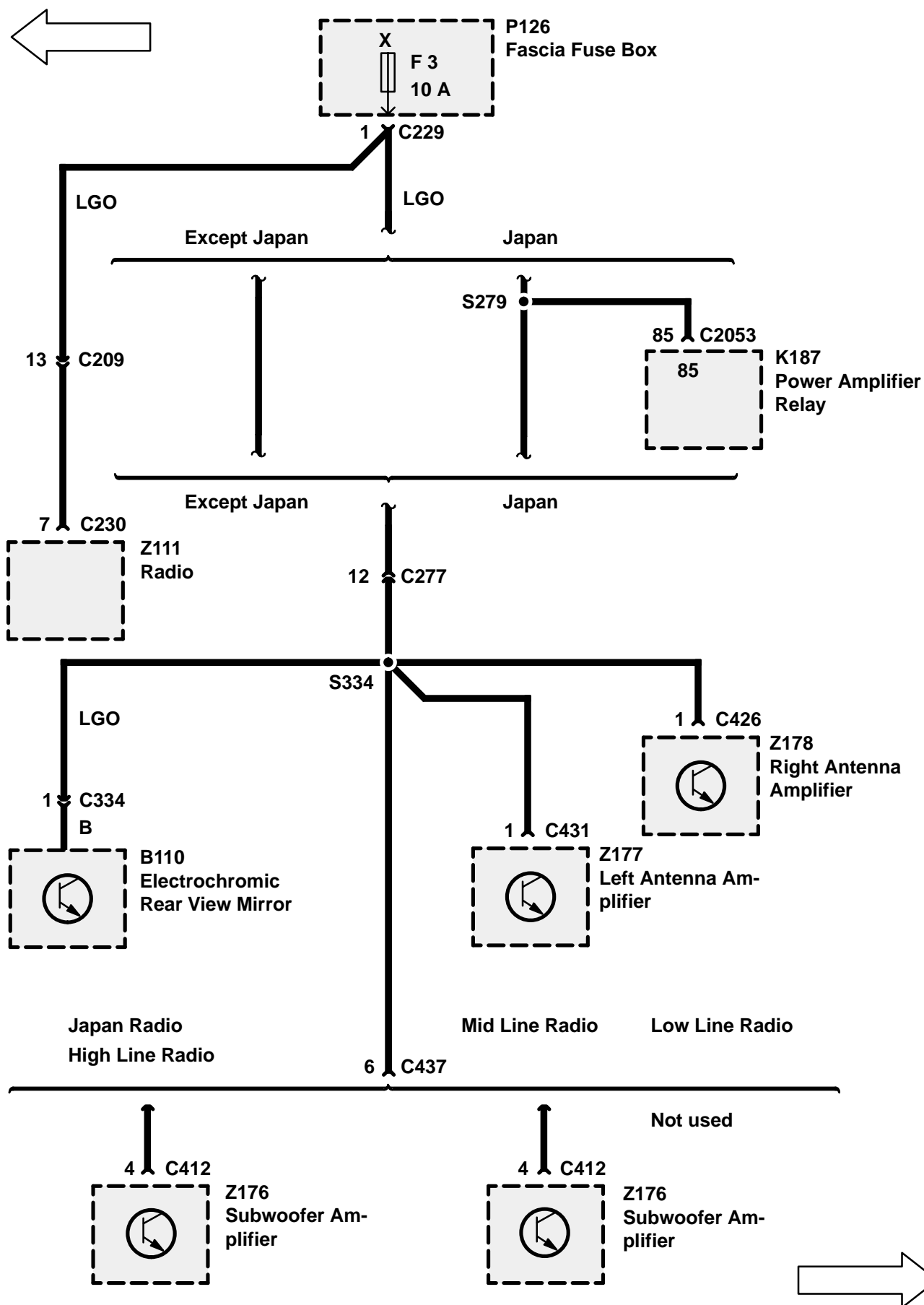




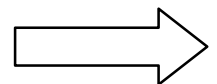
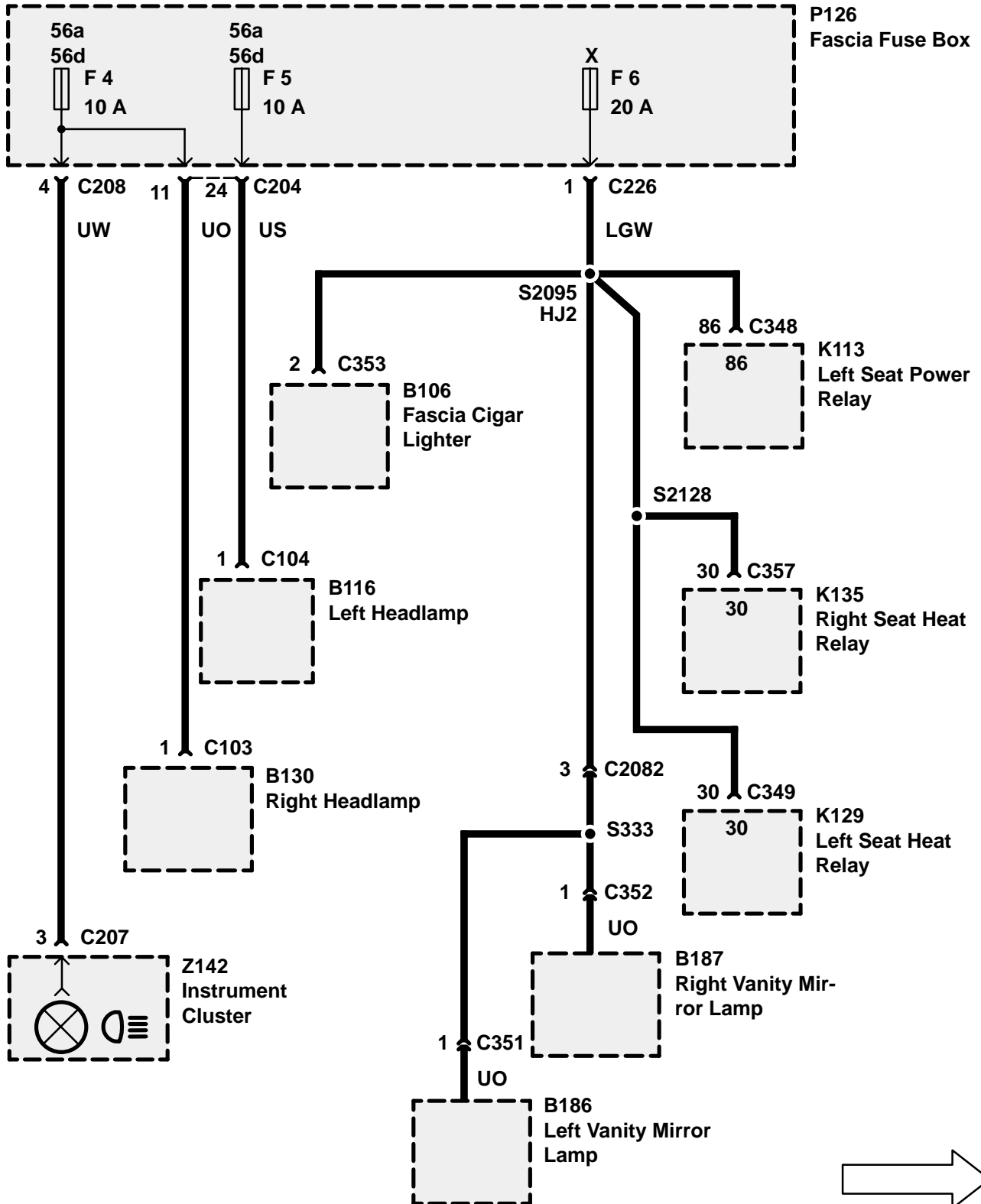
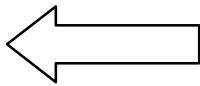


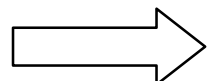
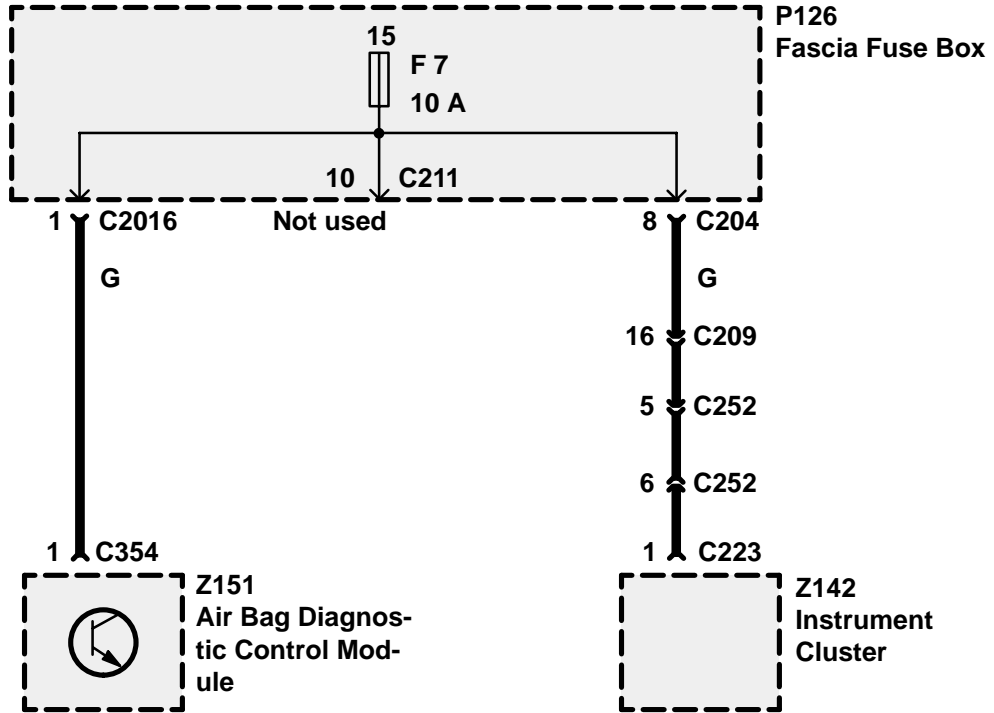
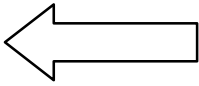


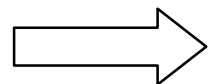
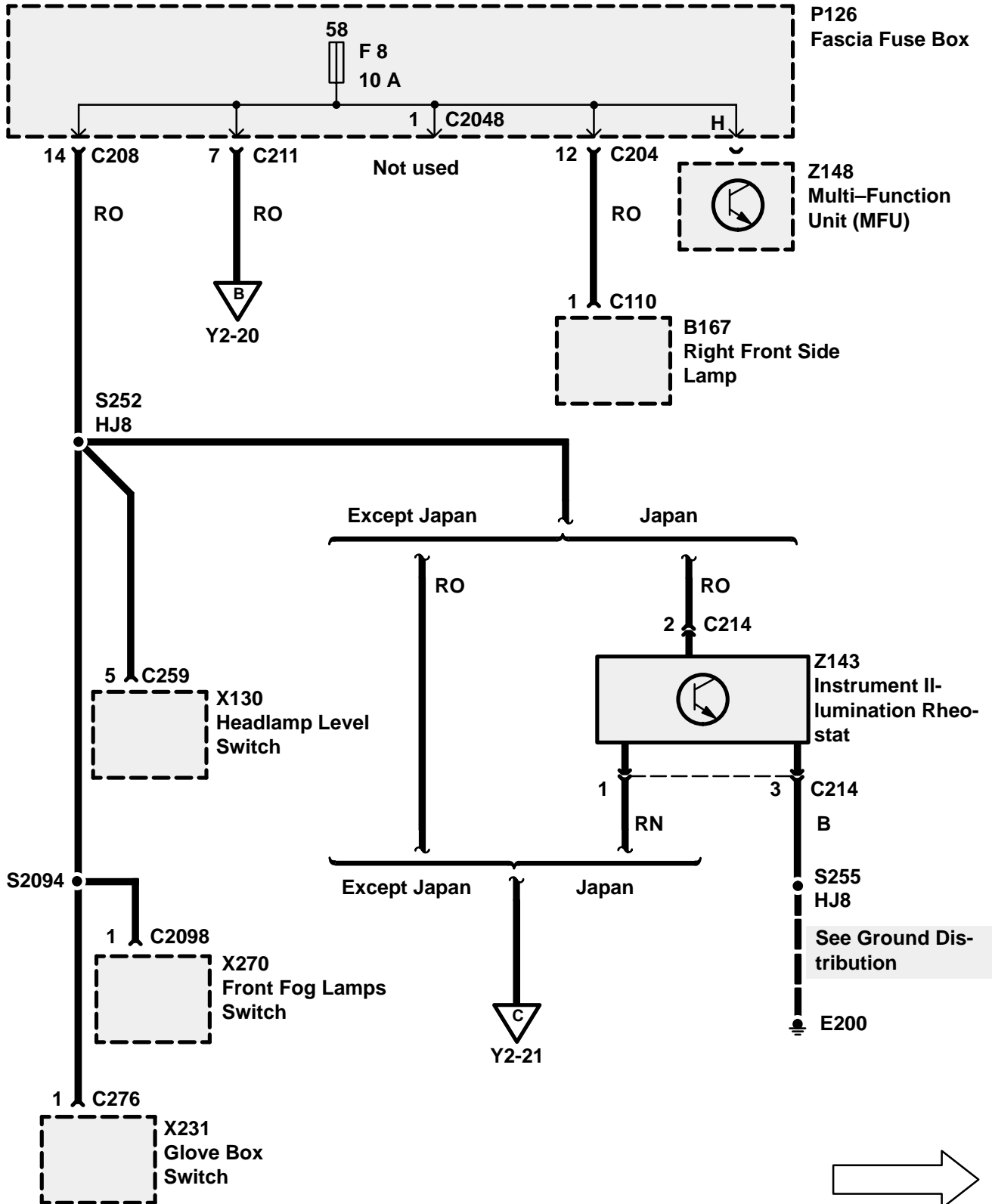
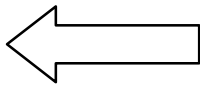


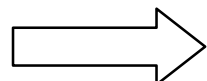
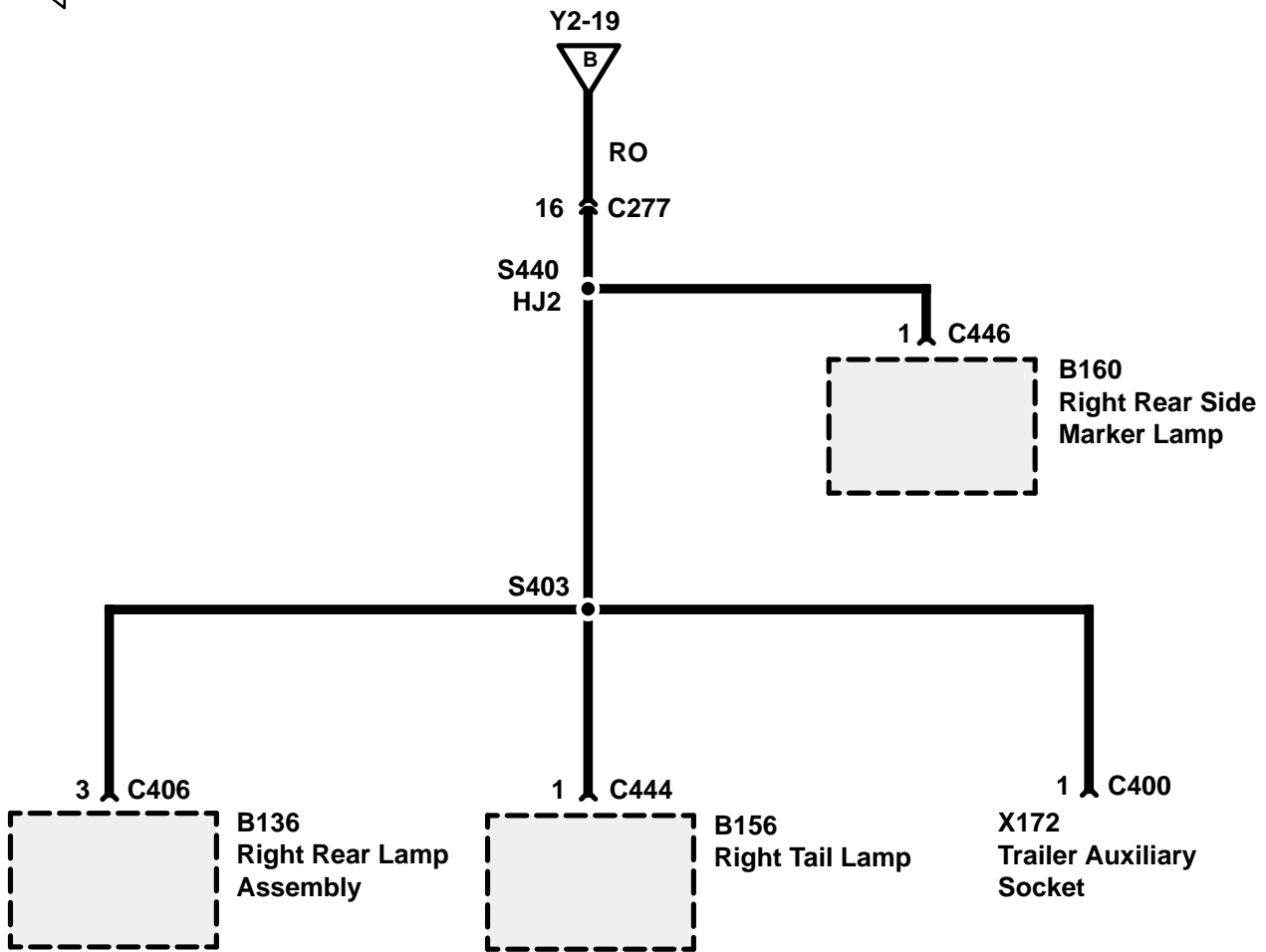
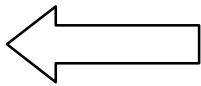


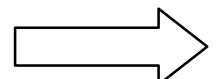
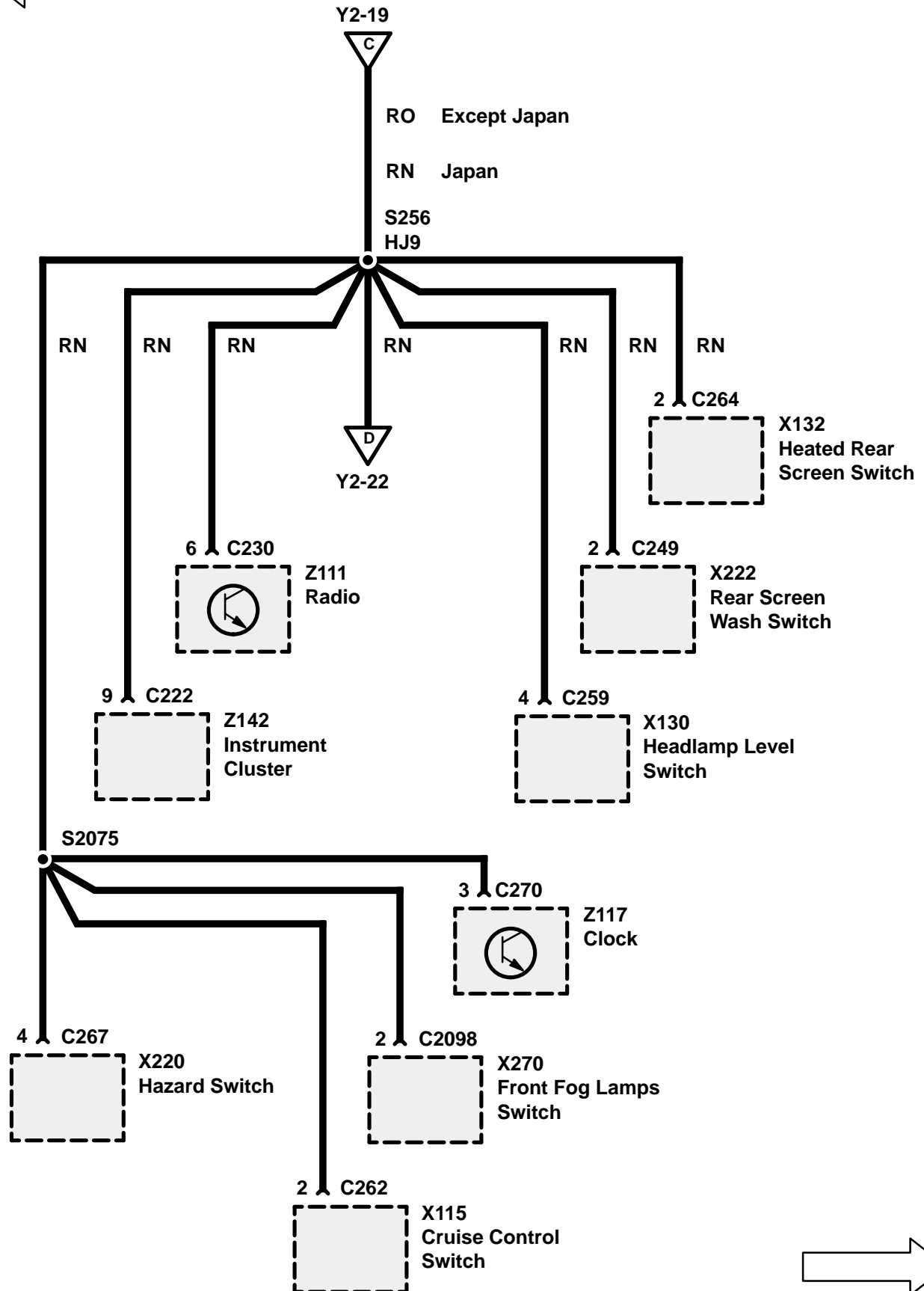
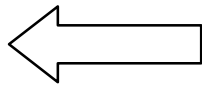


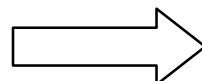
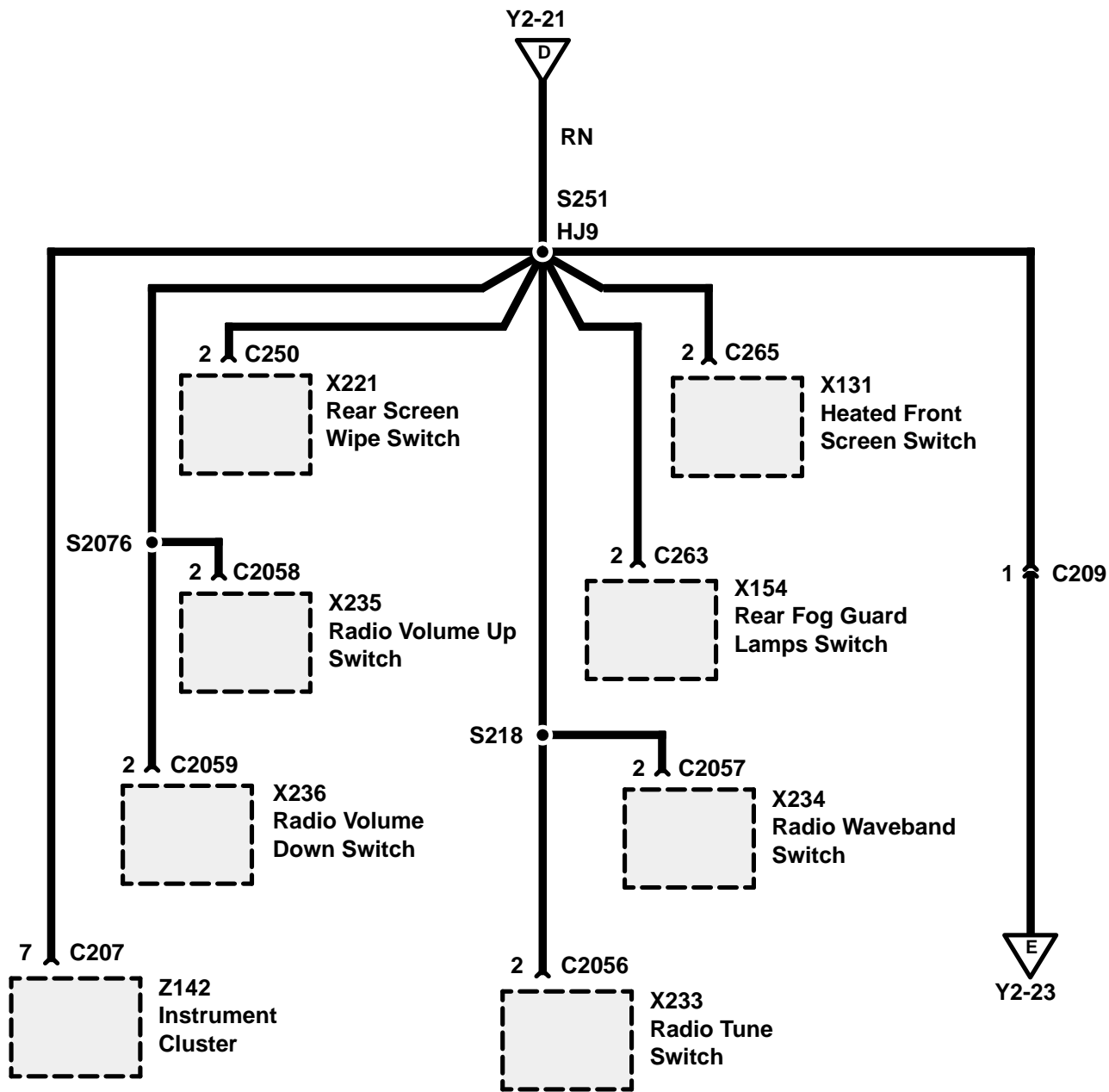
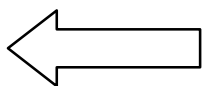


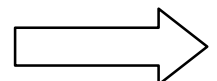
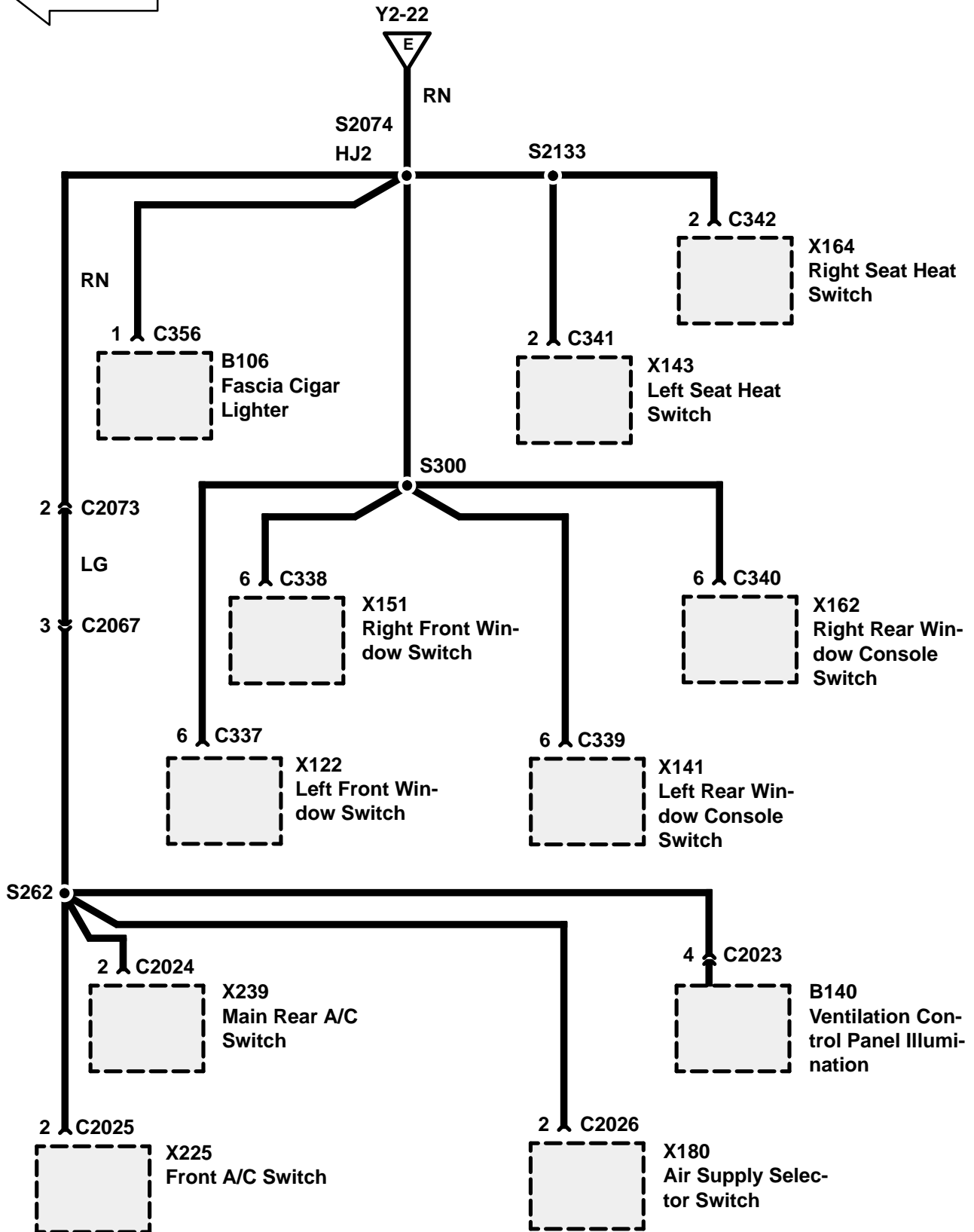
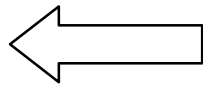


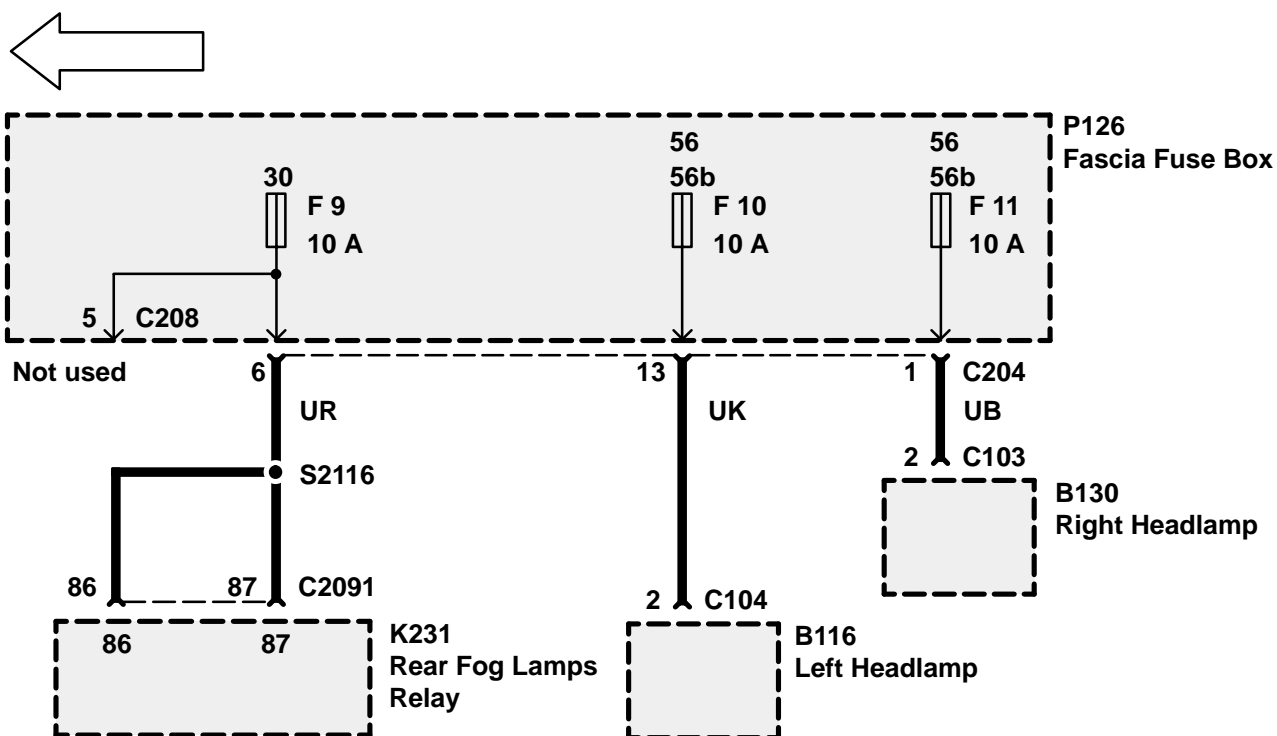




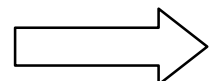
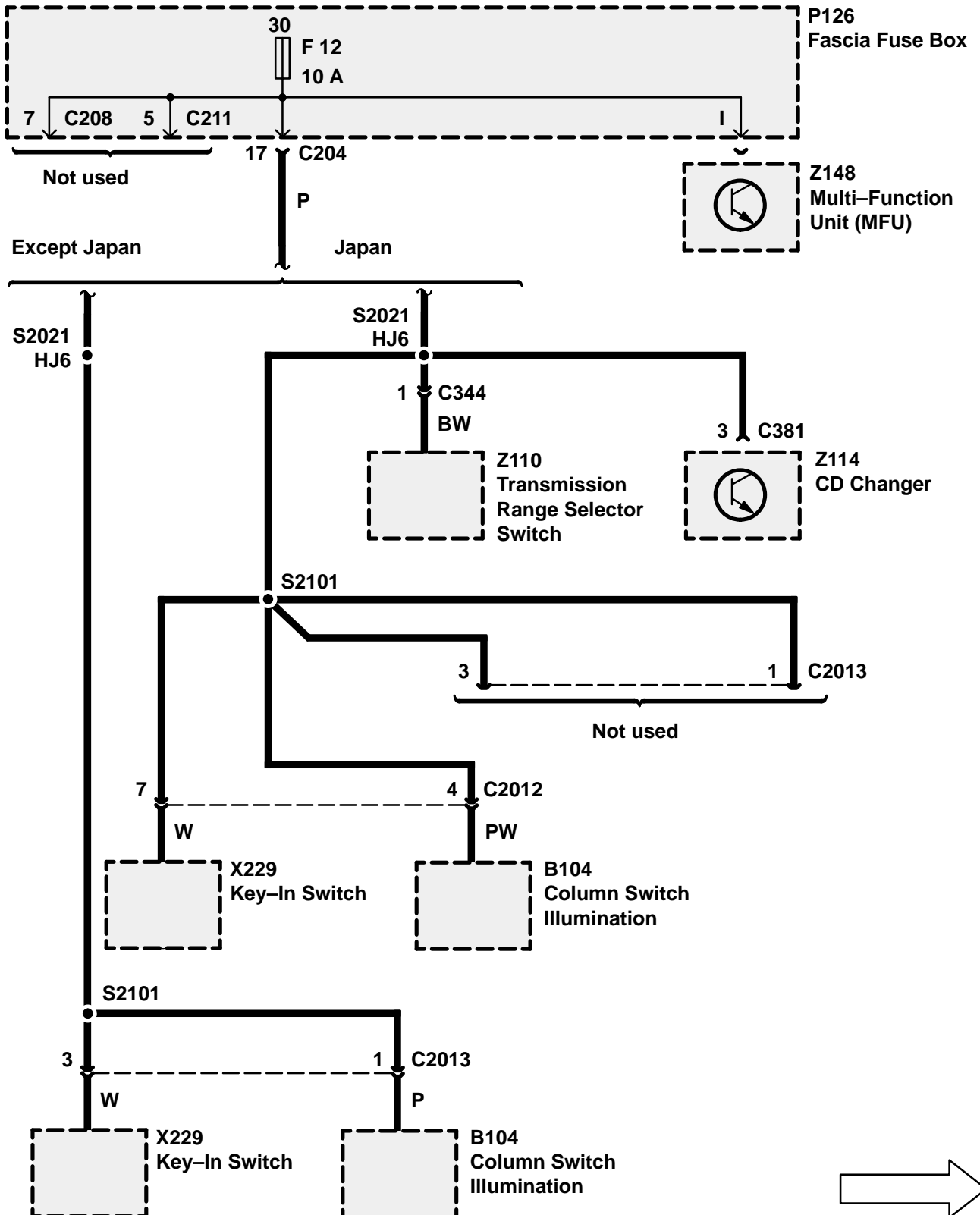
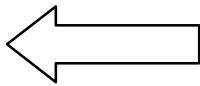


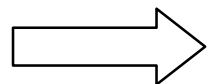
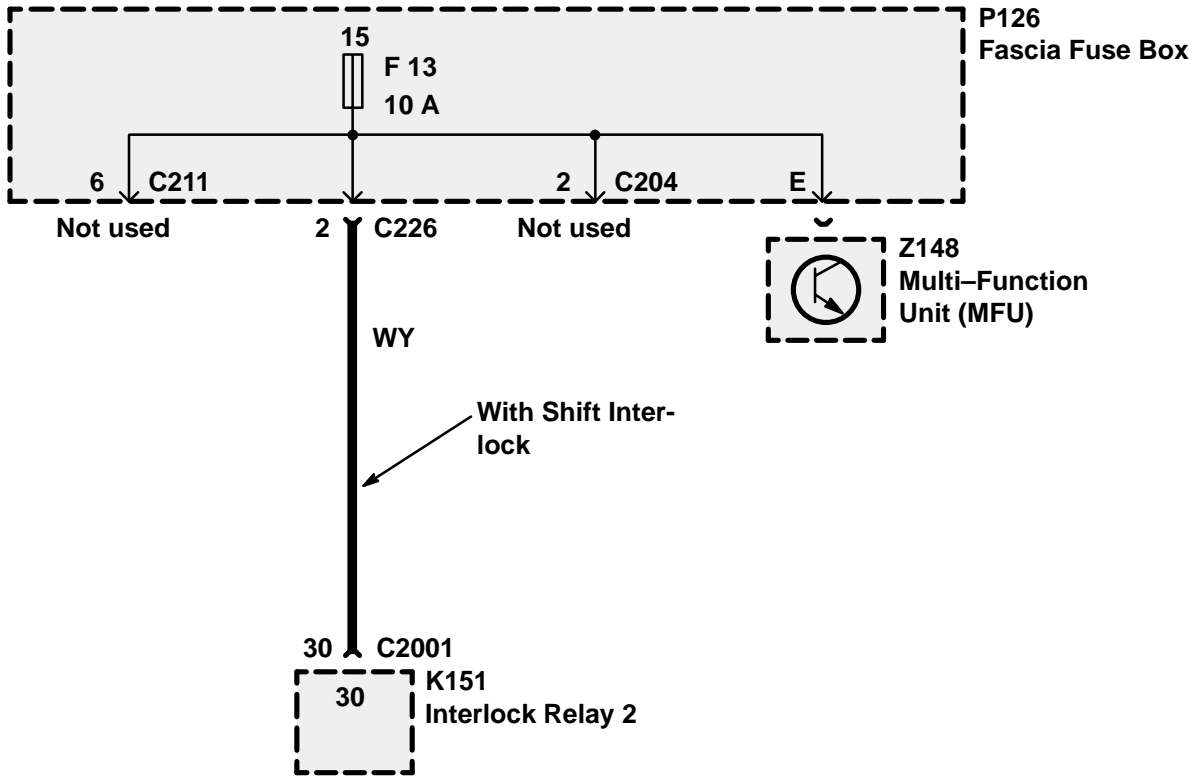
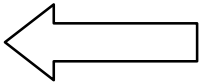


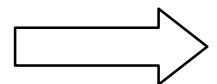
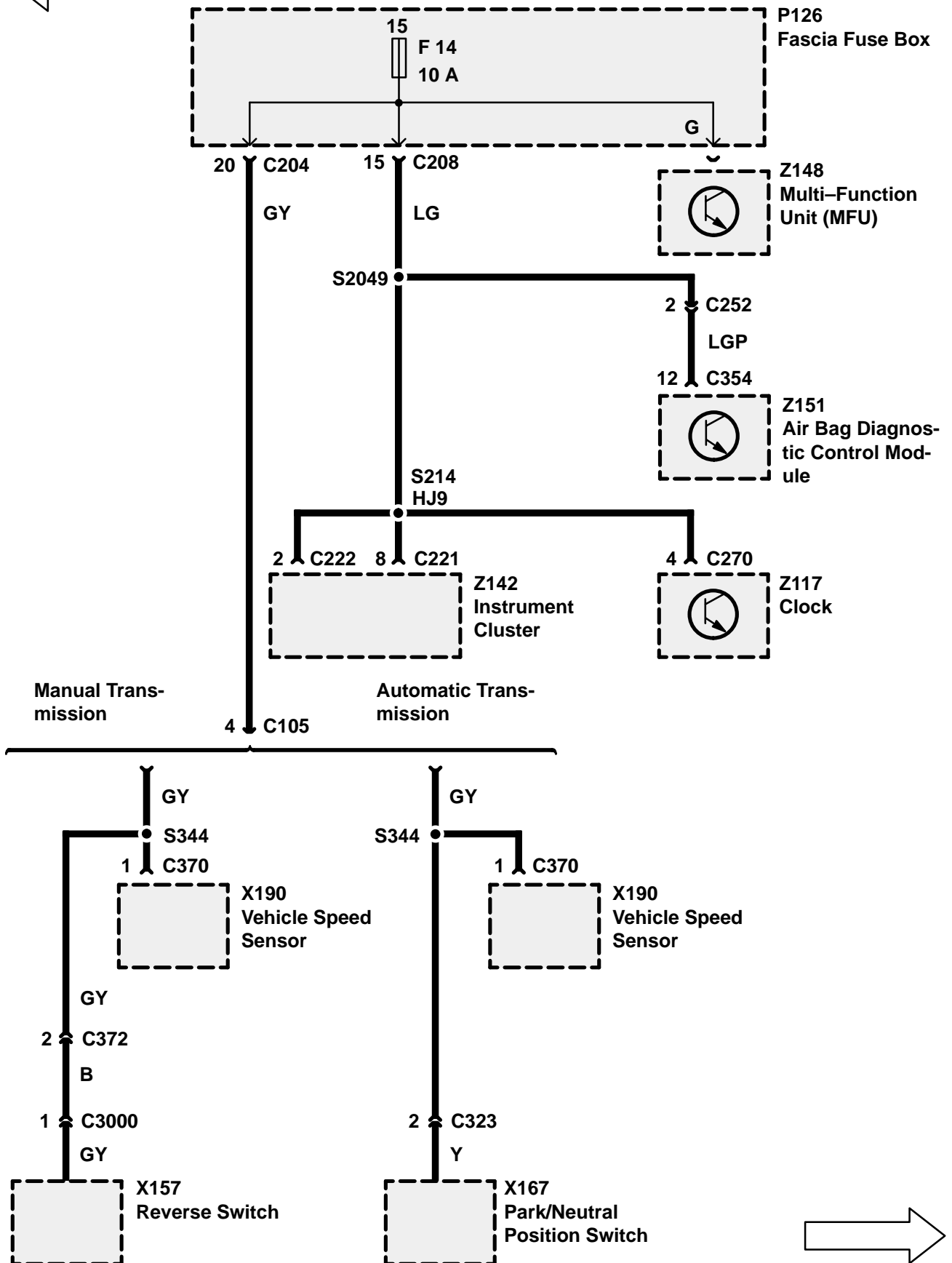
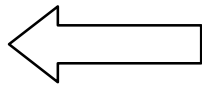


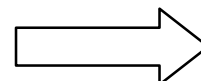
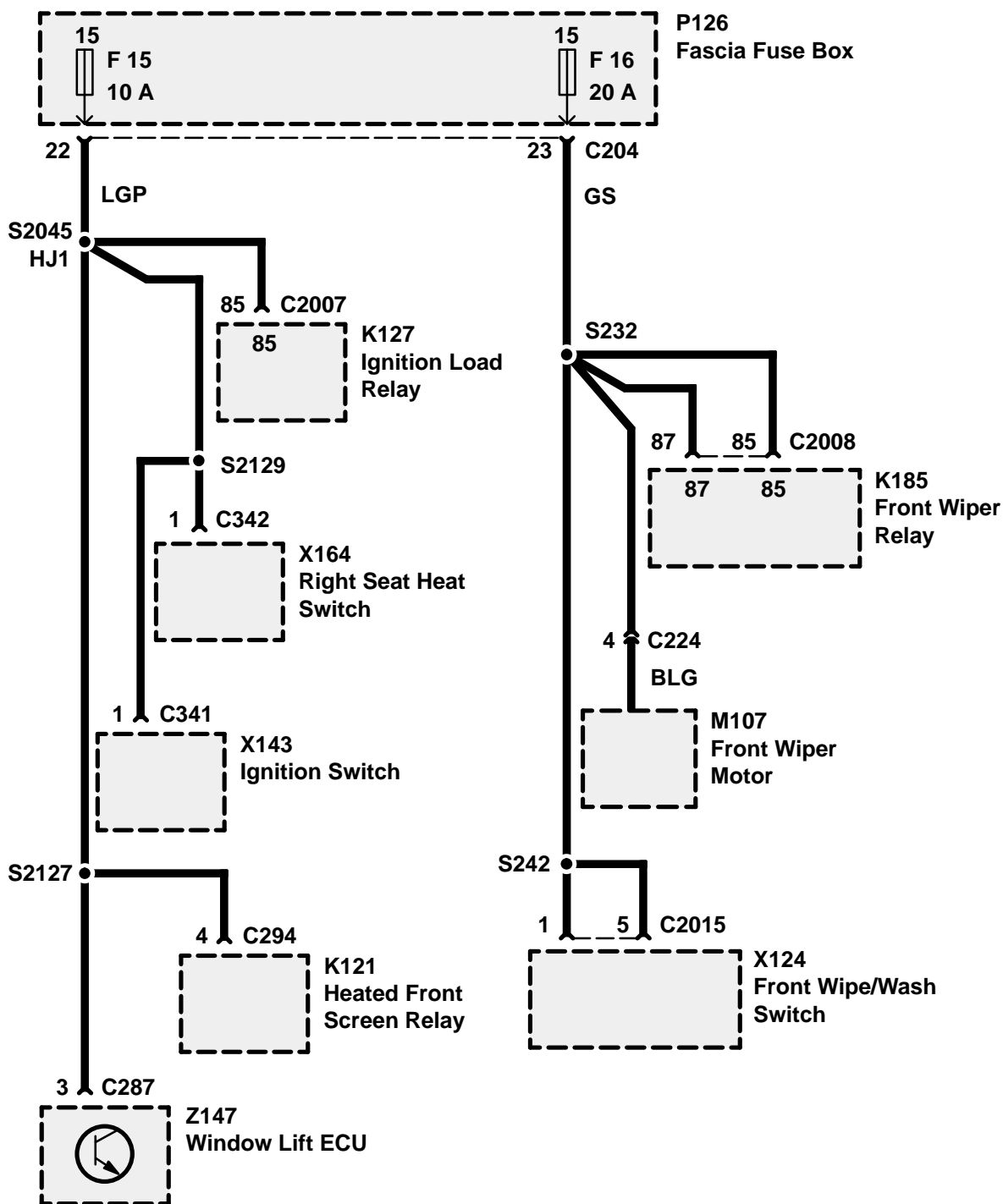
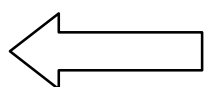


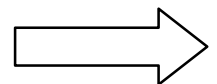
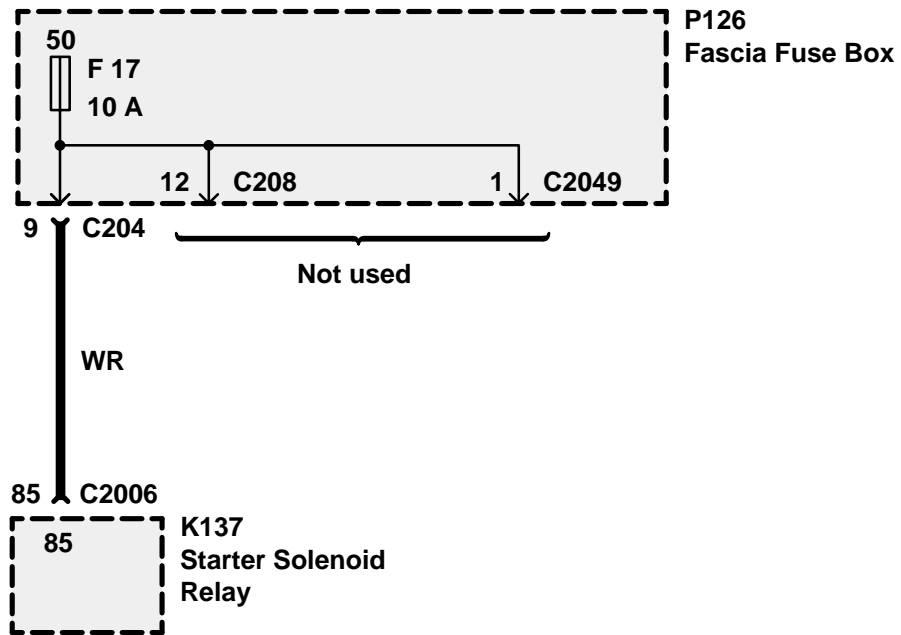
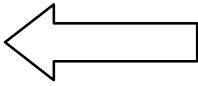


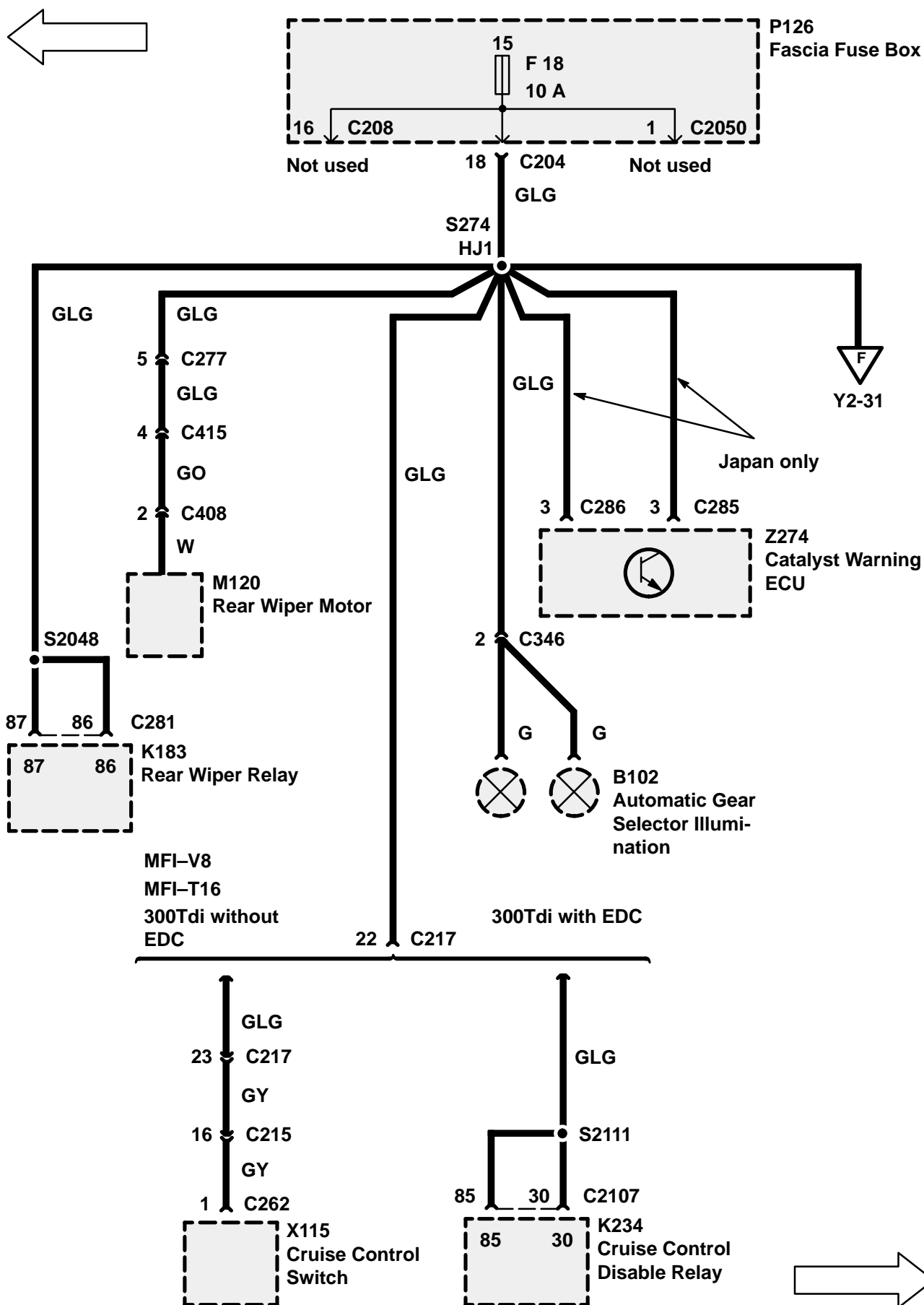


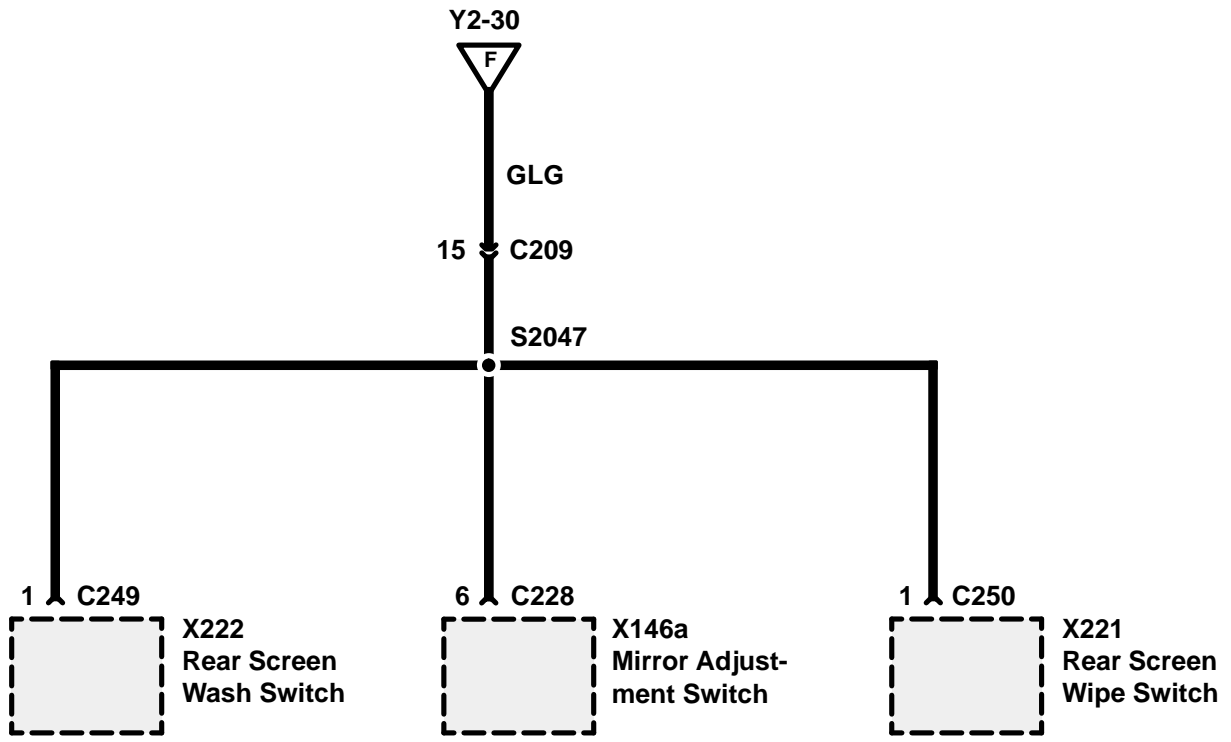
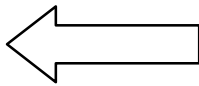








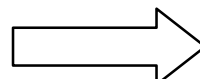
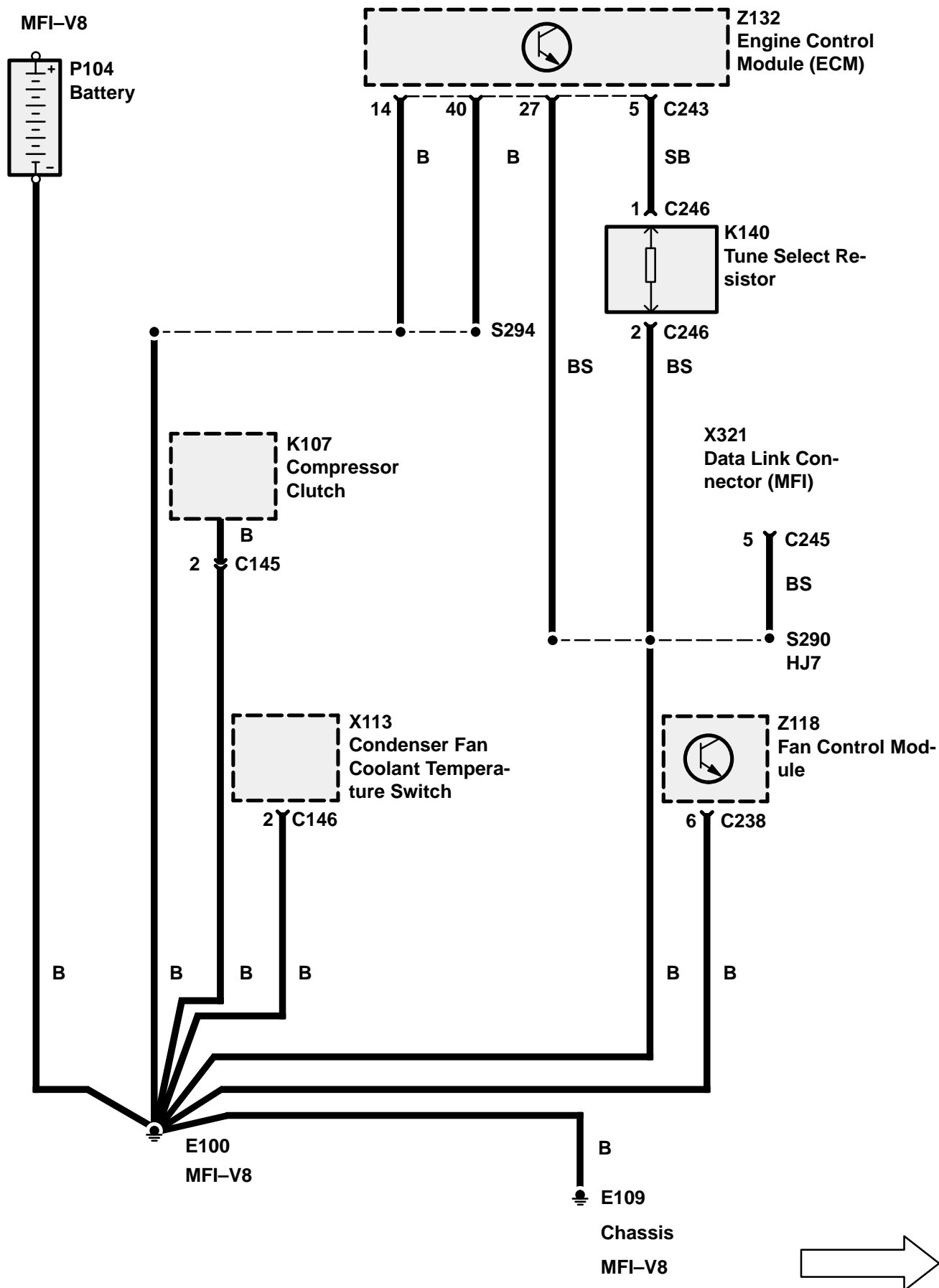


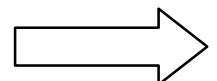
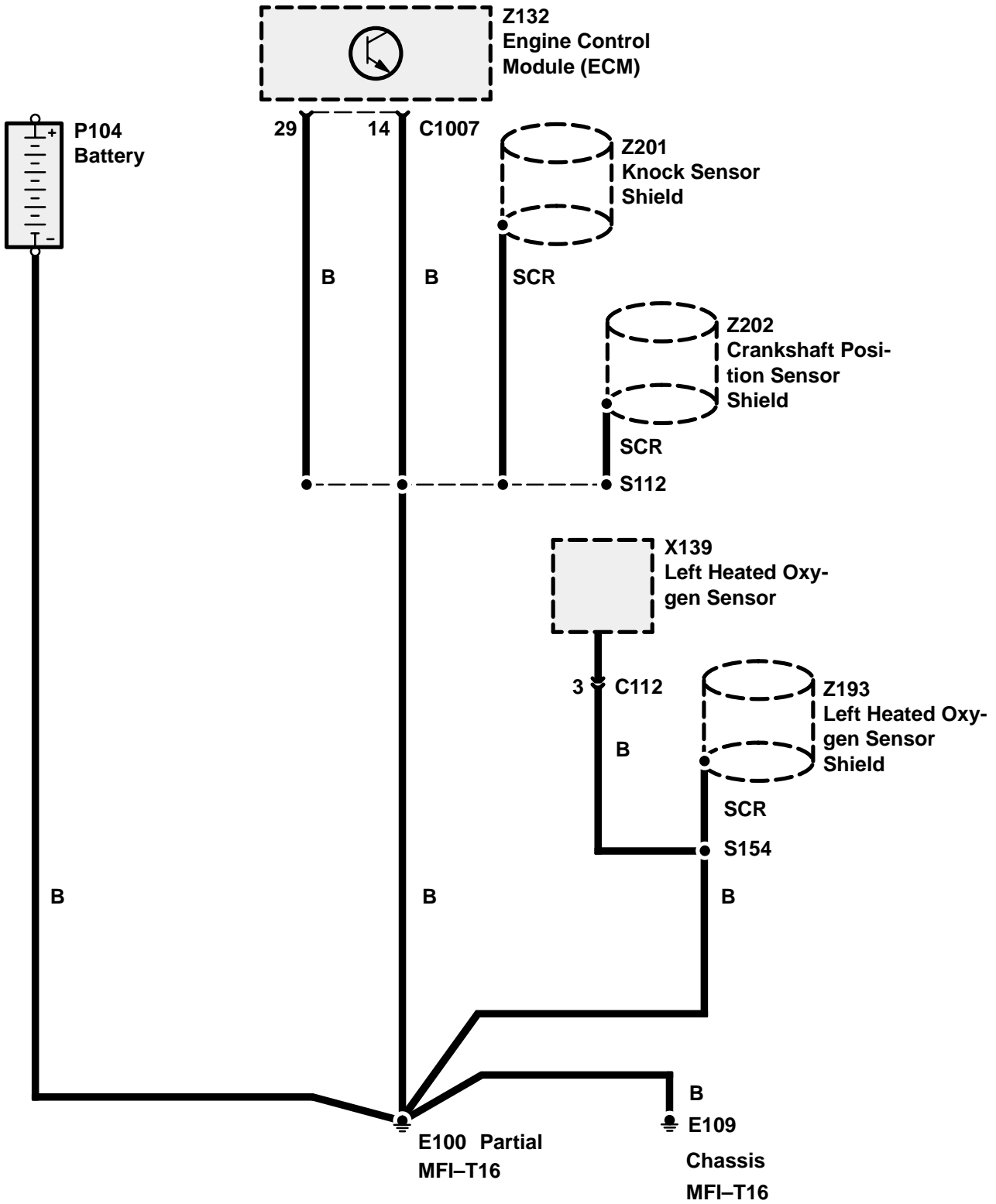
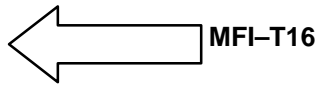


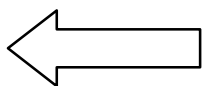
## GROUND AND SPLICE INDEX

<b>Ground</b>	<b>Page</b>	<b>Splice</b>	<b>Page</b>
E100 (MFI-V8) .....	Y5-2	S244 .....	Y5-29
E100 (MFI-T16) .....	Y5-3, 4	S253/HJ8 .....	Y5-14
E100 (300Tdi without EDC) .....	Y5-5	S255/HJ8 .....	Y5-15
E100 (300Tdi with EDC) .....	Y5-6	S266 .....	Y5-23
E101 .....	Y5-7	S268 .....	Y5-6
E103 (MFI-V8) .....	Y5-8	S272 (Japan) .....	Y5-10
E104 .....	Y5-9	S272 (Except Japan) .....	Y5-12
E105 .....	Y5-9	S277 .....	Y5-13
E106 .....	Y5-9	S288/HJ5 .....	Y5-26
E108 .....	Y5-9	S289 .....	Y5-8
E109 (MFI-V8) .....	Y5-2	S290/HJ7 .....	Y5-2
E109 (MFI-T16) .....	Y5-3	S294 .....	Y5-2
E109 (300Tdi without EDC) .....	Y5-5	S2003/HJ3 .....	Y5-28
E109 (300Tdi with EDC) .....	Y5-6	S2005/H52 .....	Y5-27
E110 .....	Y5-9	S2015/HJ11 .....	Y5-21
E200 .....	Y5-10-19	S2016/HJ10 .....	Y5-18
E201 .....	Y5-20-29	S2023/HJ11 .....	Y5-22
E203 .....	Y5-30	S2024 .....	Y5-31
E204 .....	Y5-30-31	S2025 .....	Y5-27
E301 .....	Y5-32	S2031/HJ5 .....	Y5-26
E303 .....	Y5-33	S2032/HJ3 .....	Y5-29
E400 .....	Y5-34, 35	S2051 .....	Y5-30
E401 .....	Y5-36, 37	S307 .....	Y5-11
E404 .....	Y5-34	S308 .....	Y5-12
		S320 .....	Y5-32
<b>Splice</b>	<b>Page</b>	S332 .....	Y5-36
S112 (MFI-T16) .....	Y5-3	S343 (Japan) .....	Y5-24
S112 (300Tdi without EDC) .....	Y5-5	S343 (Except Japan) .....	Y5-25
S122 .....	Y5-11	S401 .....	Y5-34
S132 .....	Y5-30	S402 .....	Y5-37
S154 .....	Y5-3	S415 .....	Y5-34
S155 .....	Y5-5	S417 .....	Y5-35
S203/HJ10 .....	Y5-19	S418 .....	Y5-37
S204/HJ10 .....	Y5-19	S426 .....	Y5-35
S216 .....	Y5-14	S438 .....	Y5-37
S217 .....	Y5-13	S501 .....	Y5-20
S238/HJ3 .....	Y5-29	S601 .....	Y5-17

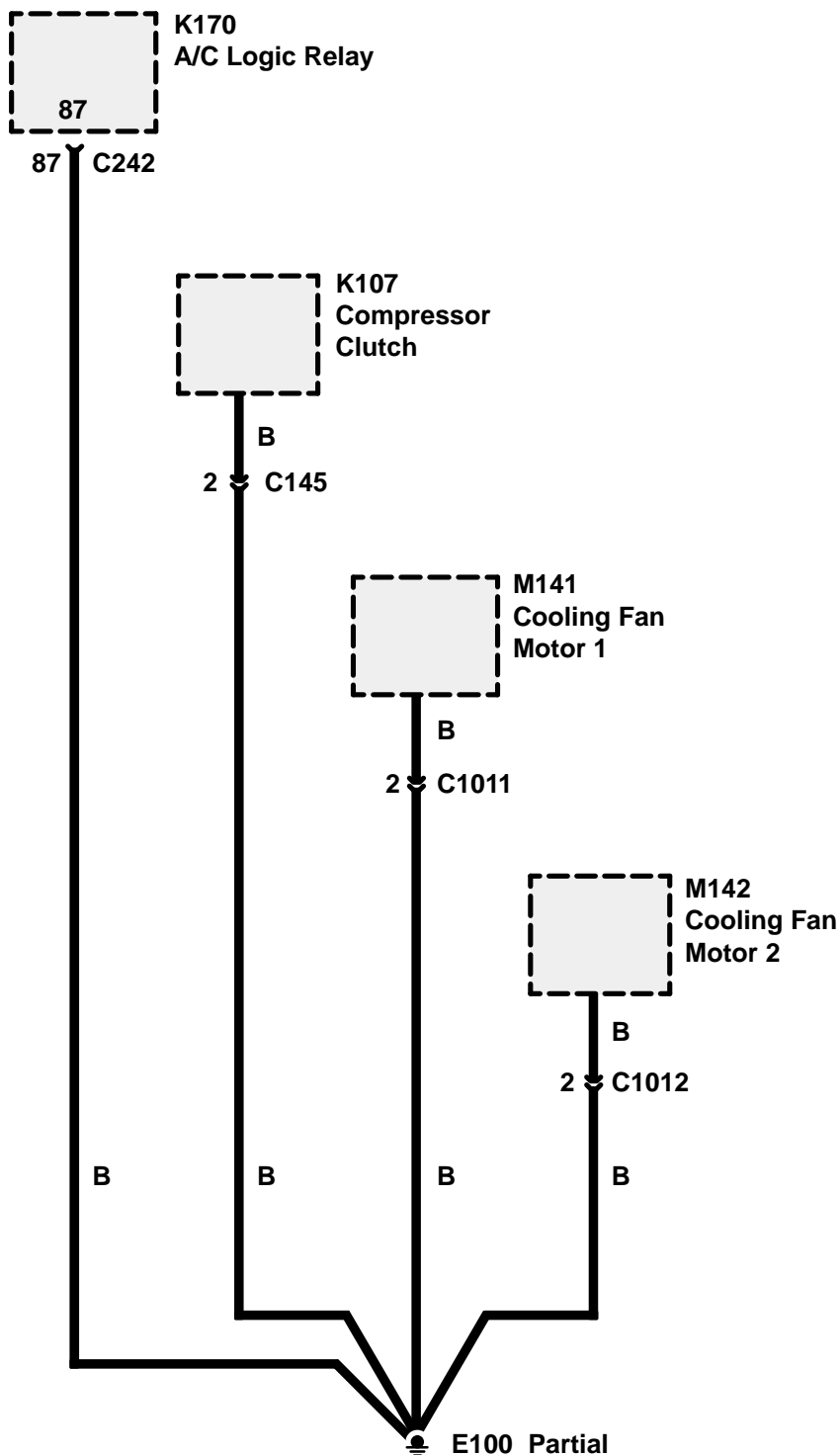




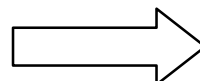


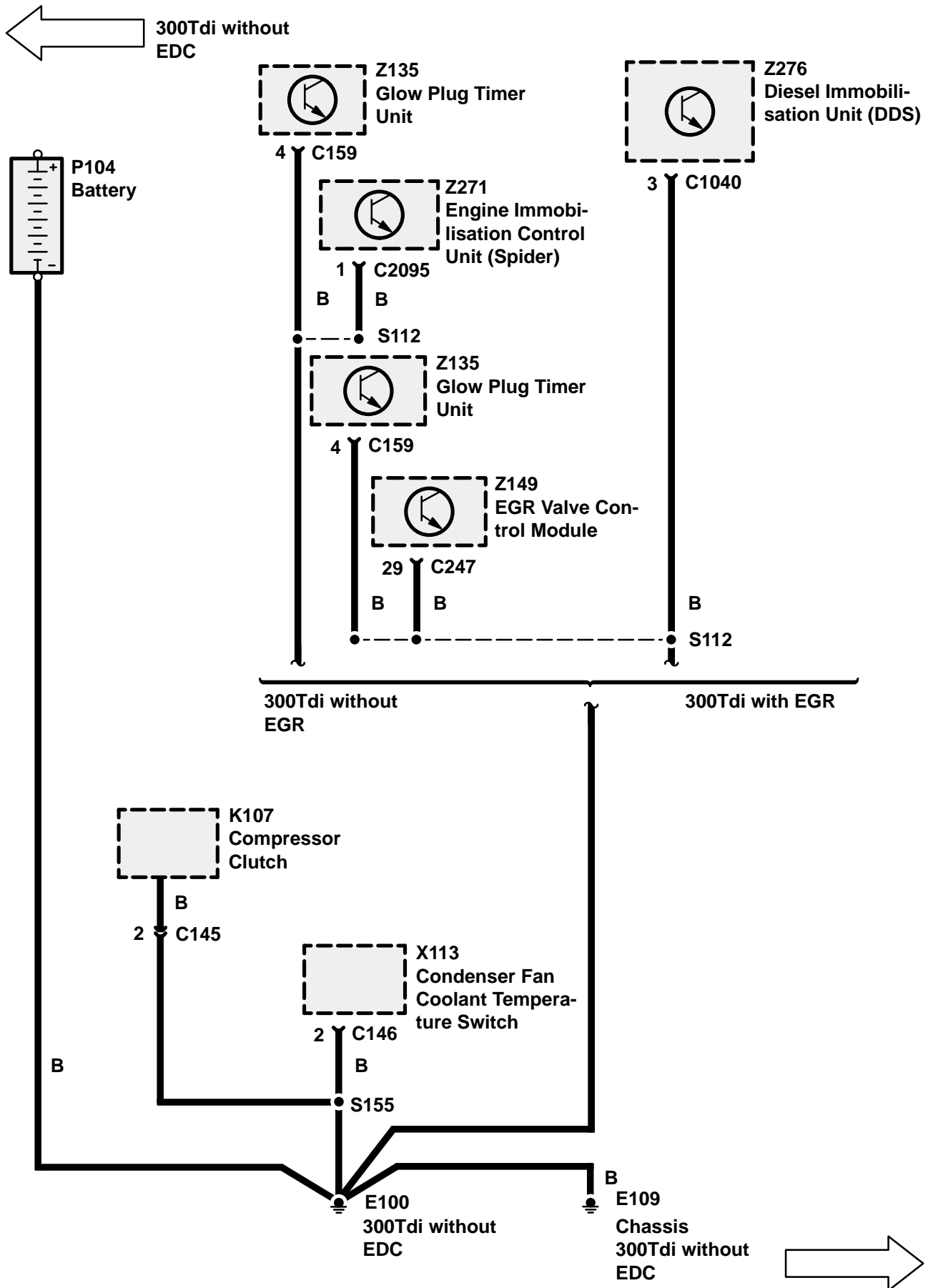


MFI-T16 with Air Conditioning

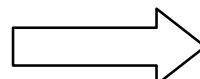
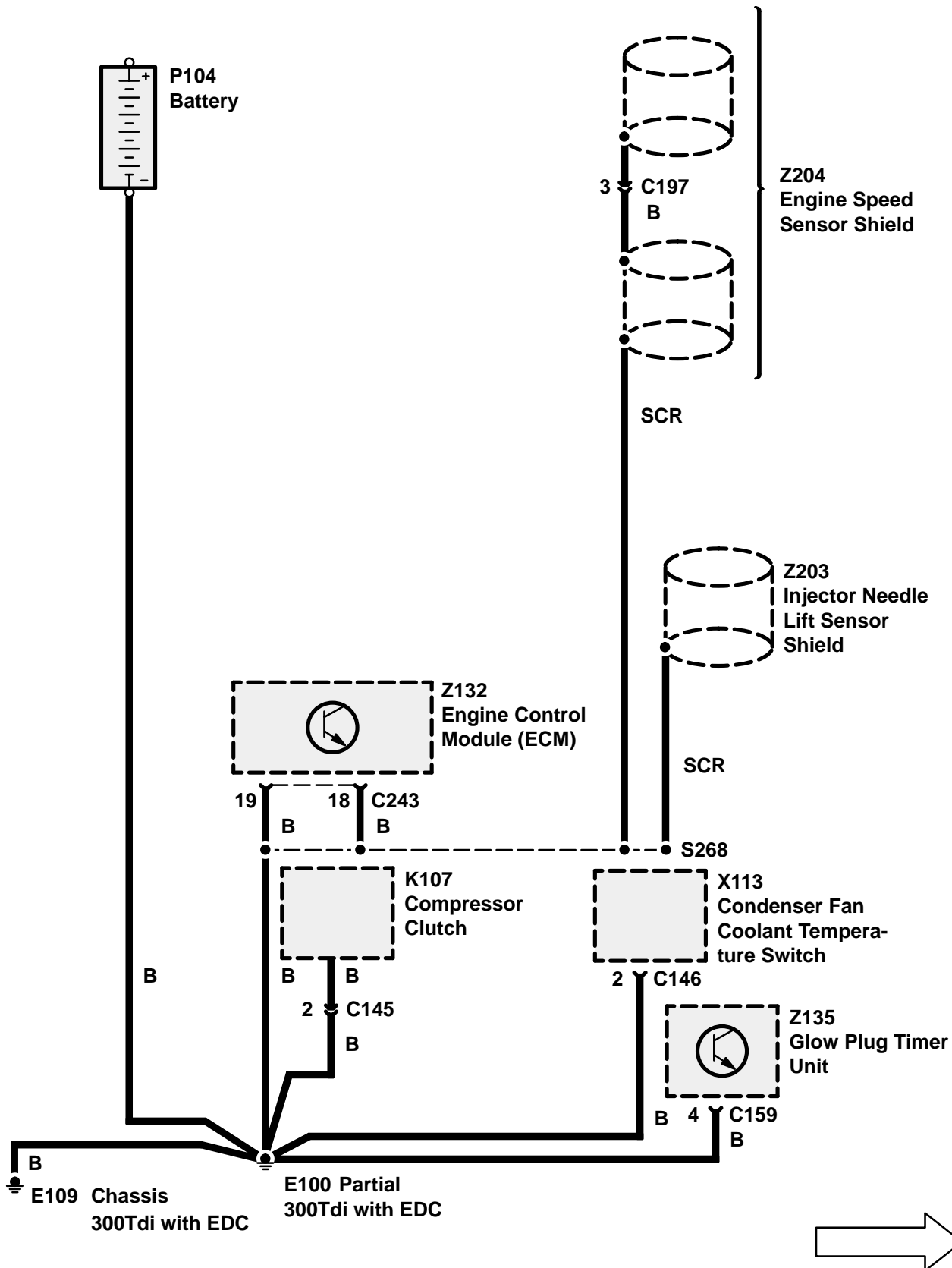


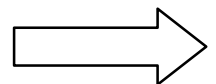
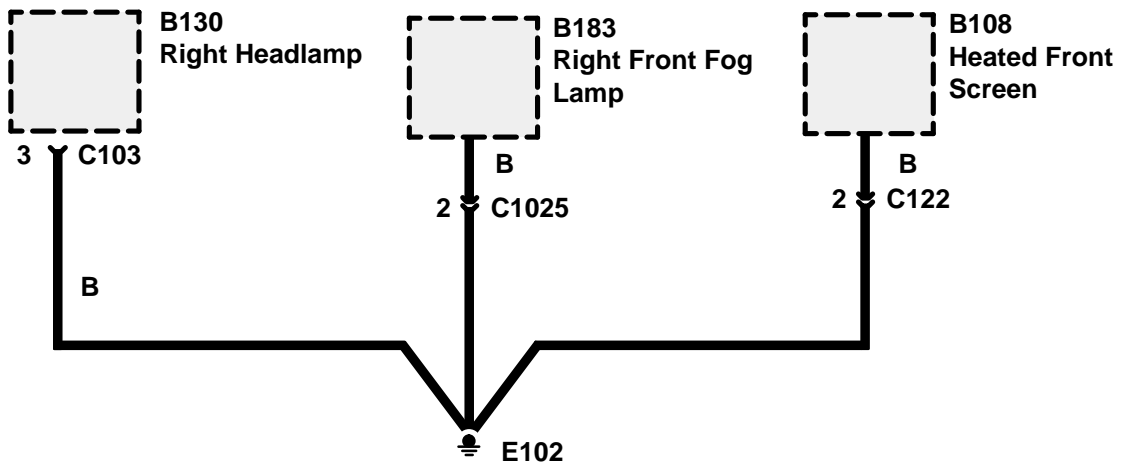
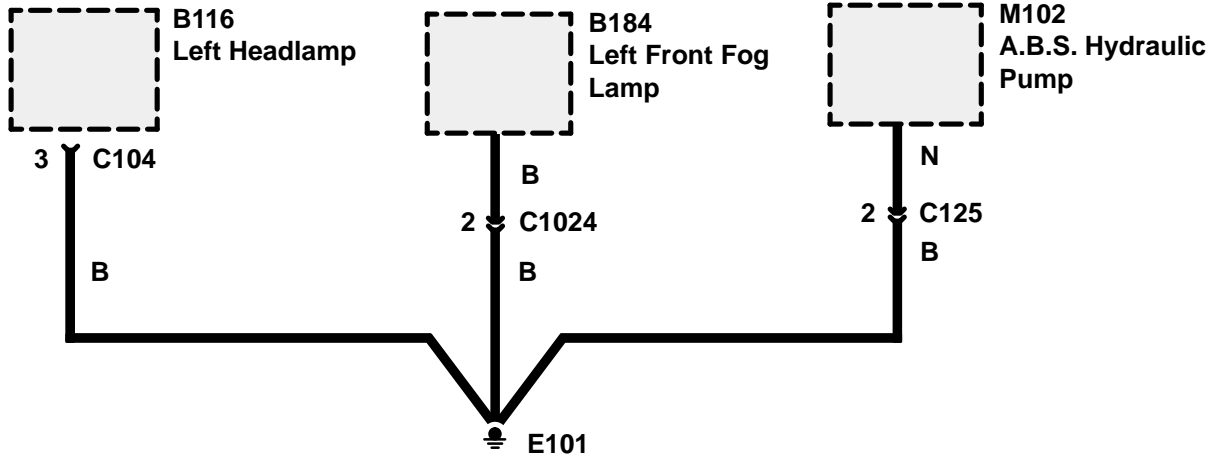
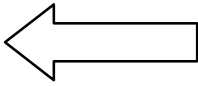
MFI-T16 with Air Conditioning

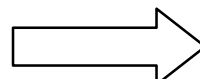
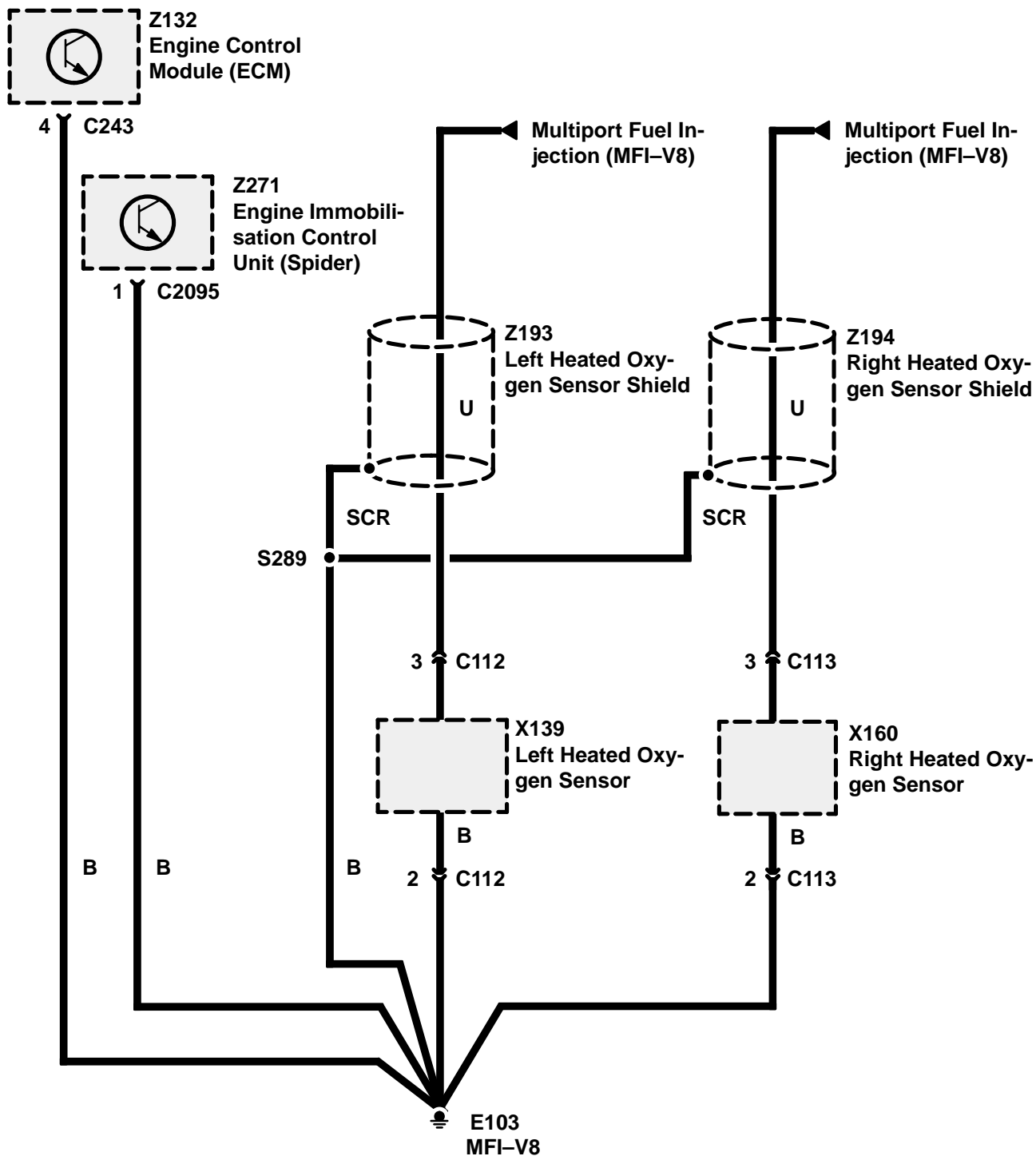
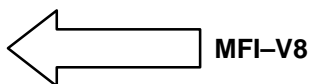


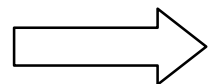
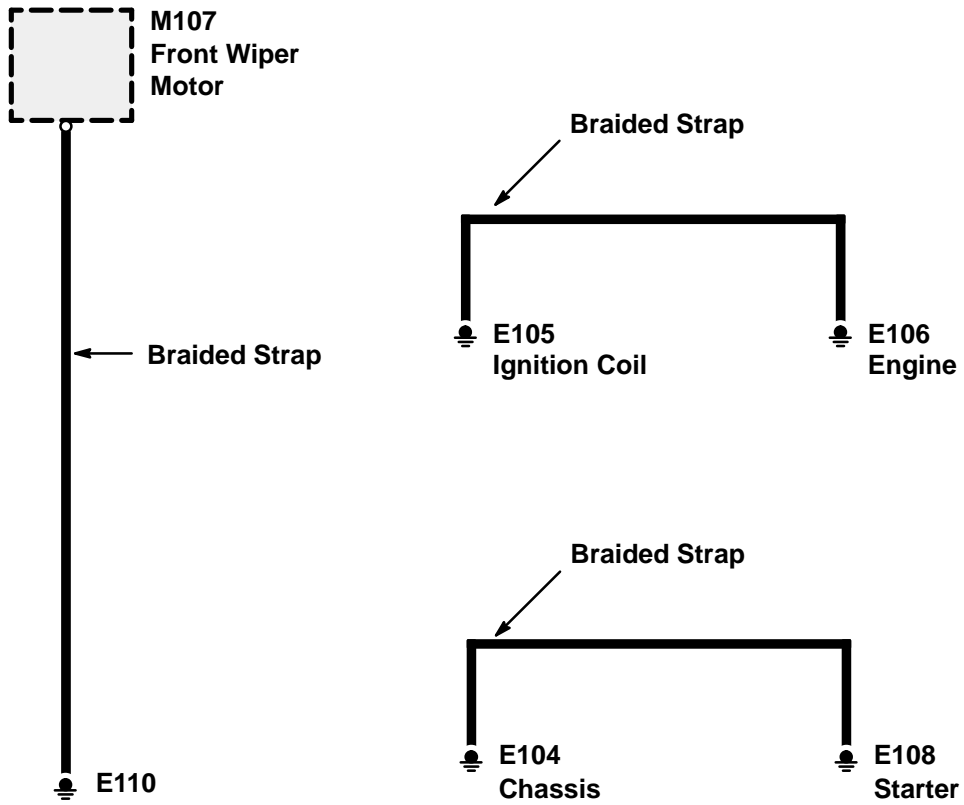
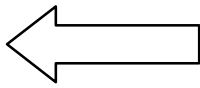


← 300Tdi with EDC

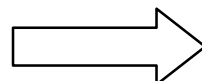
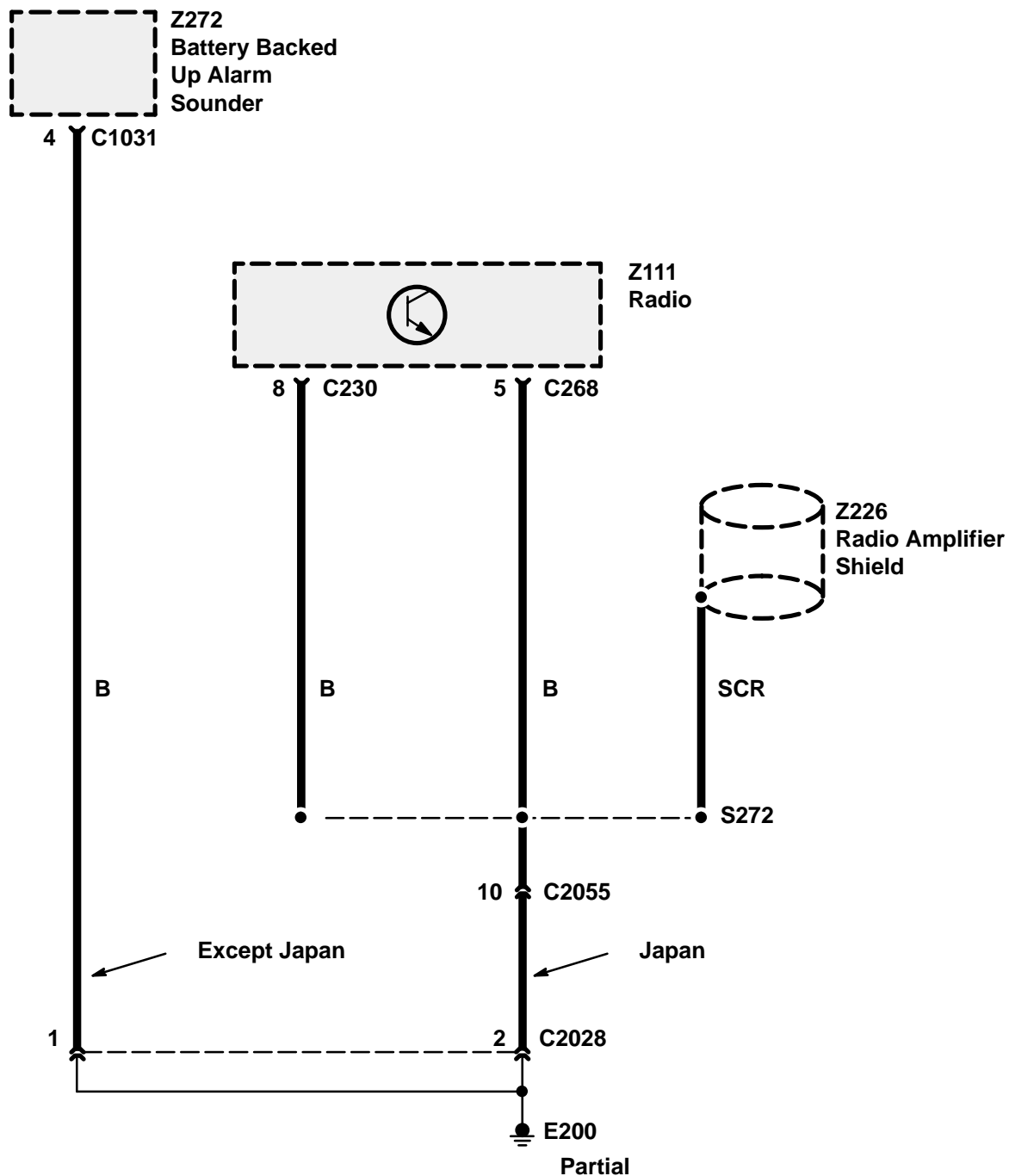
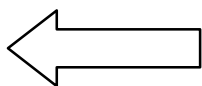


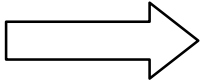
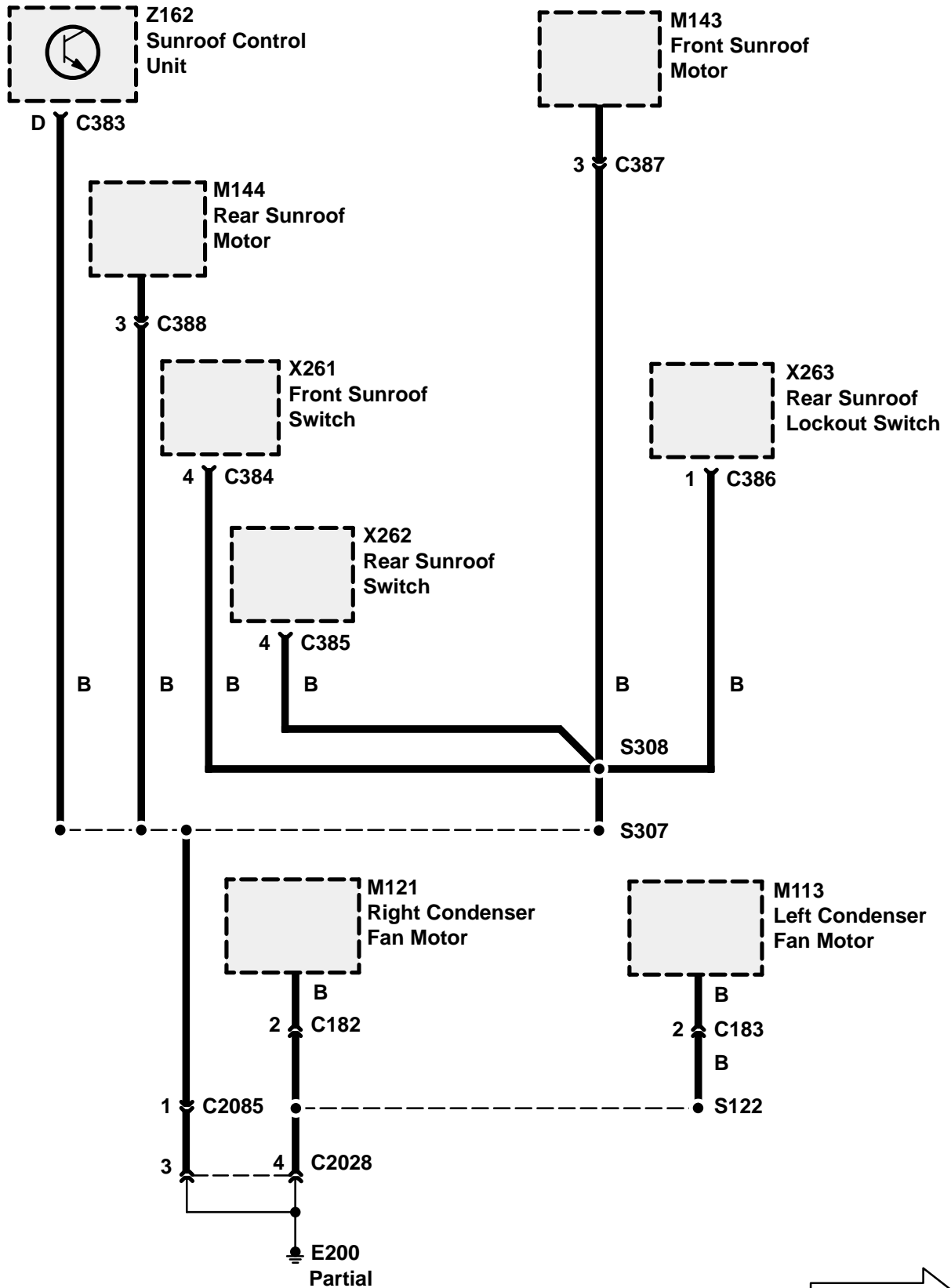
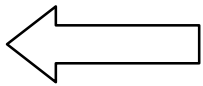


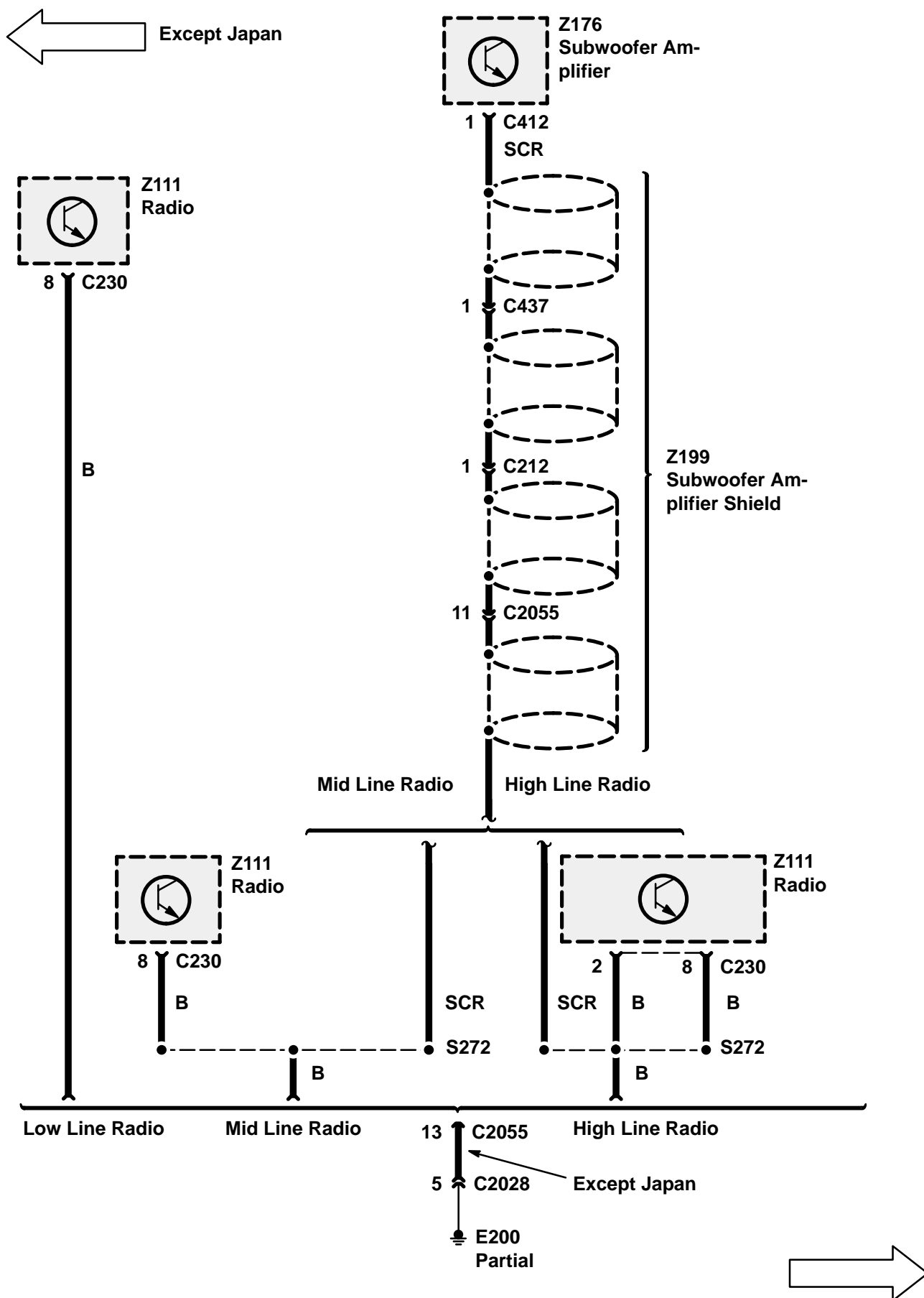


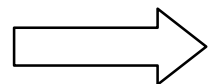
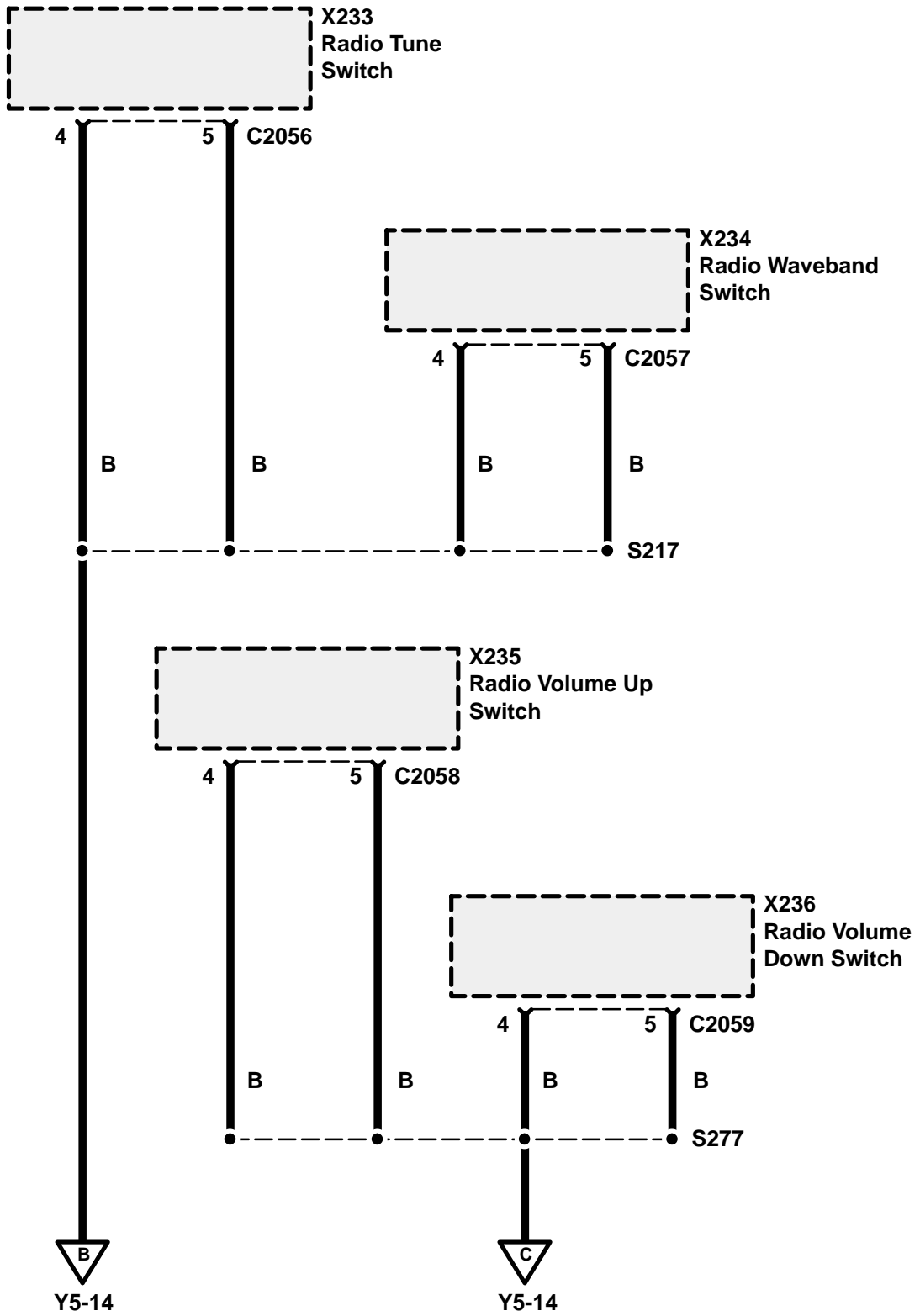


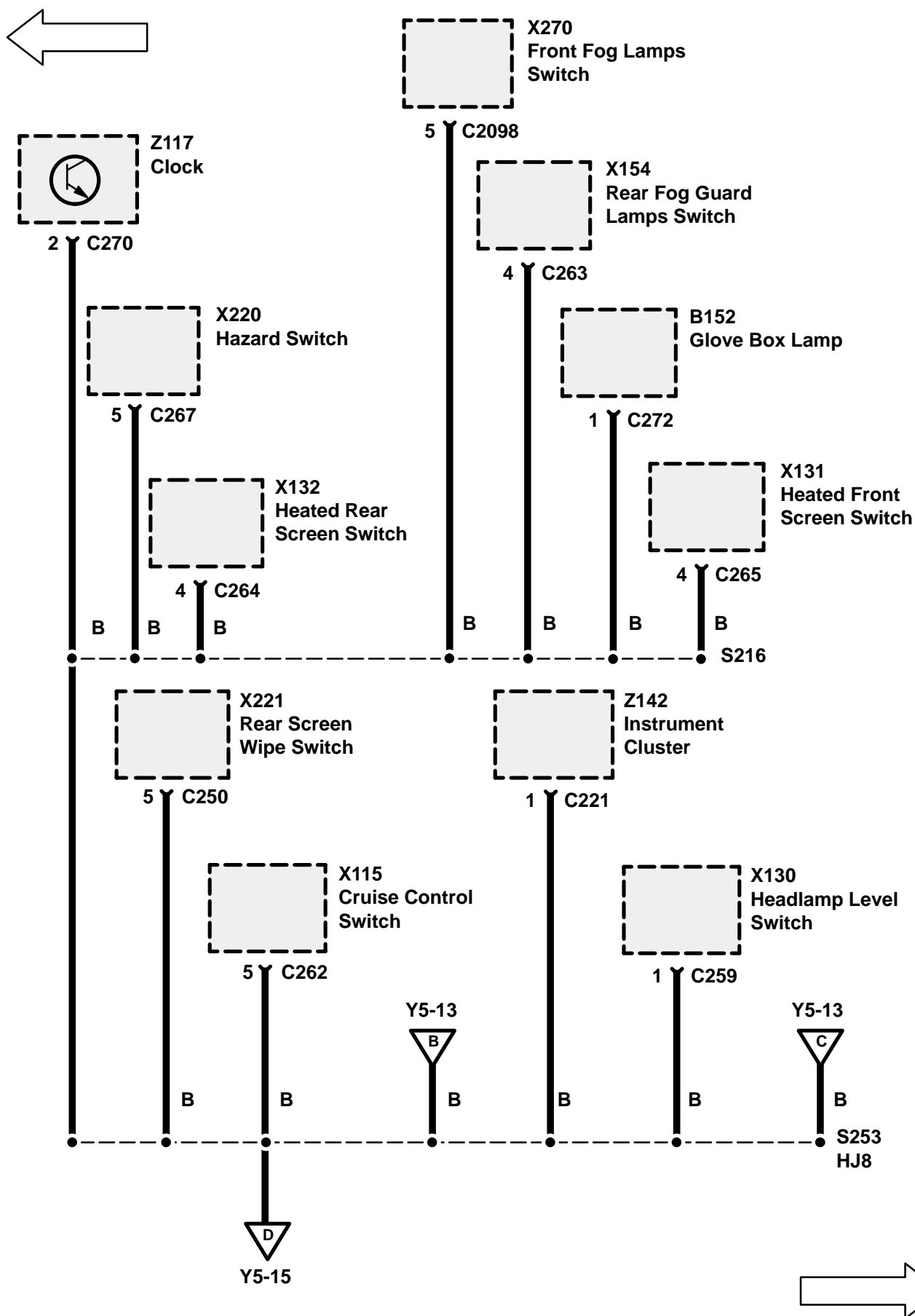


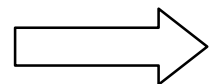
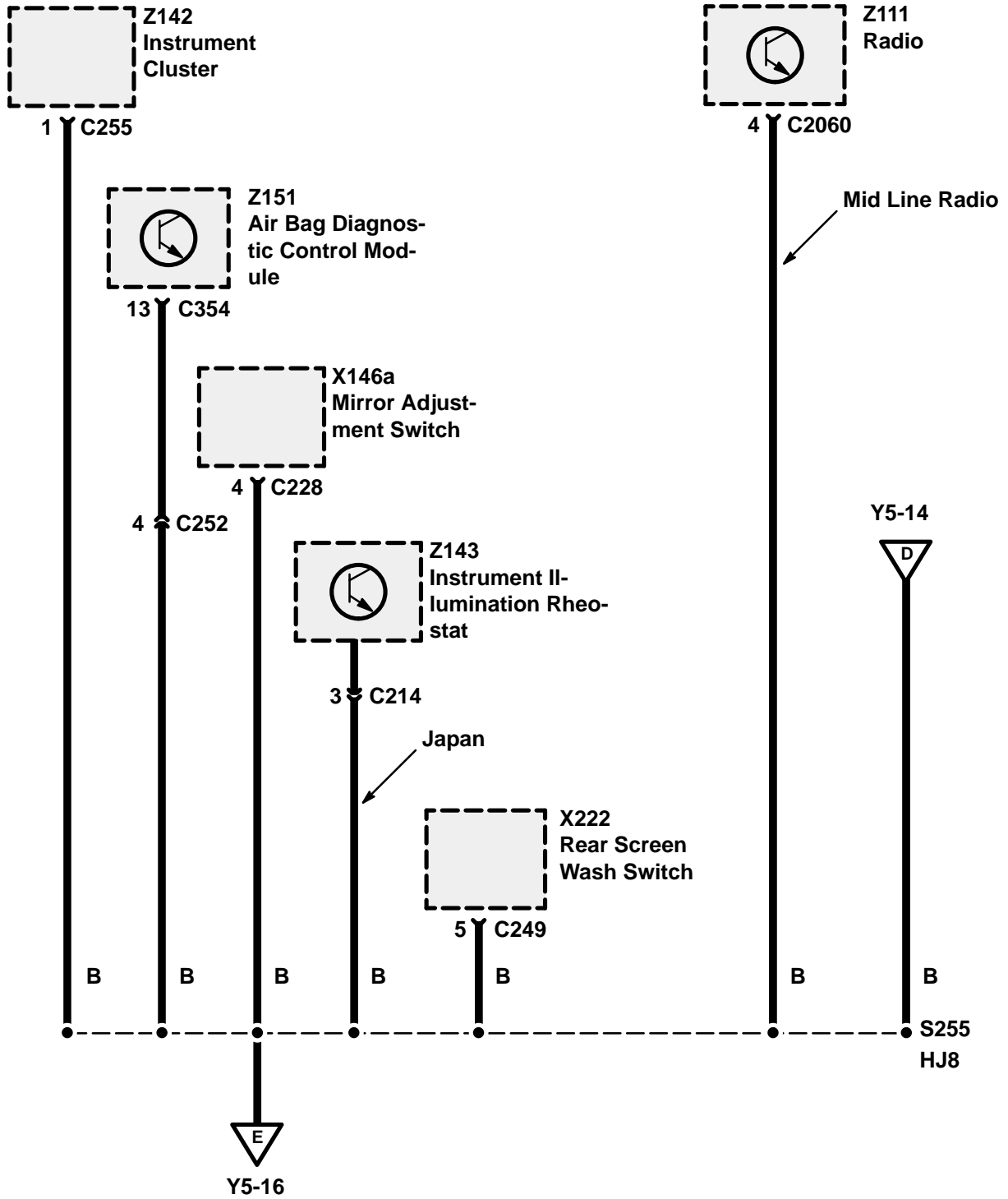
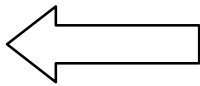


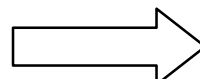
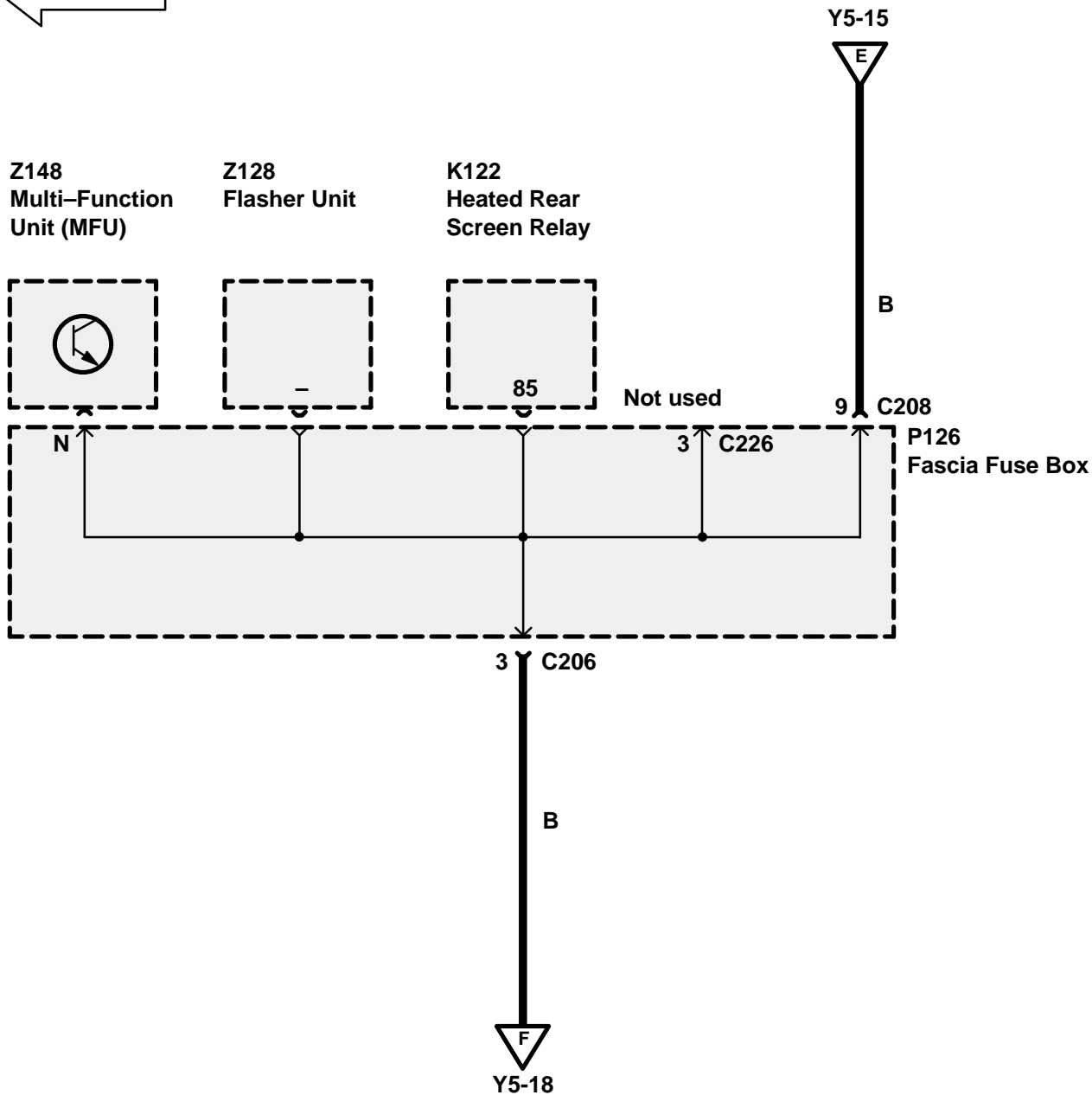
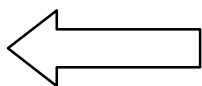


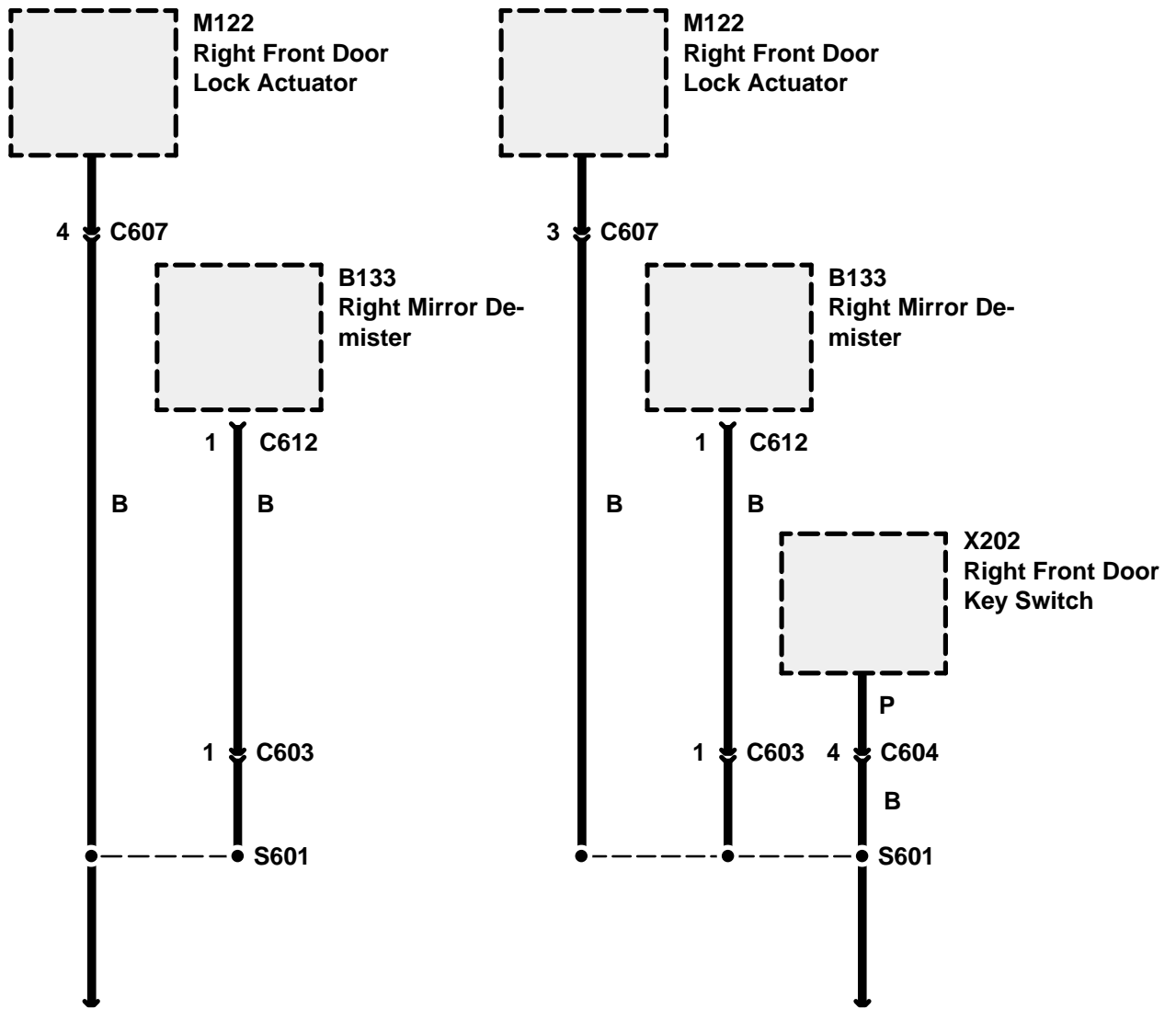
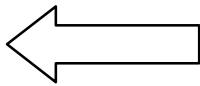




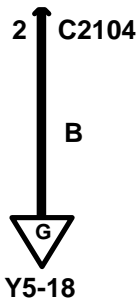




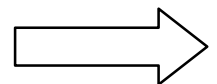




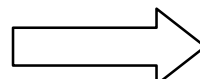
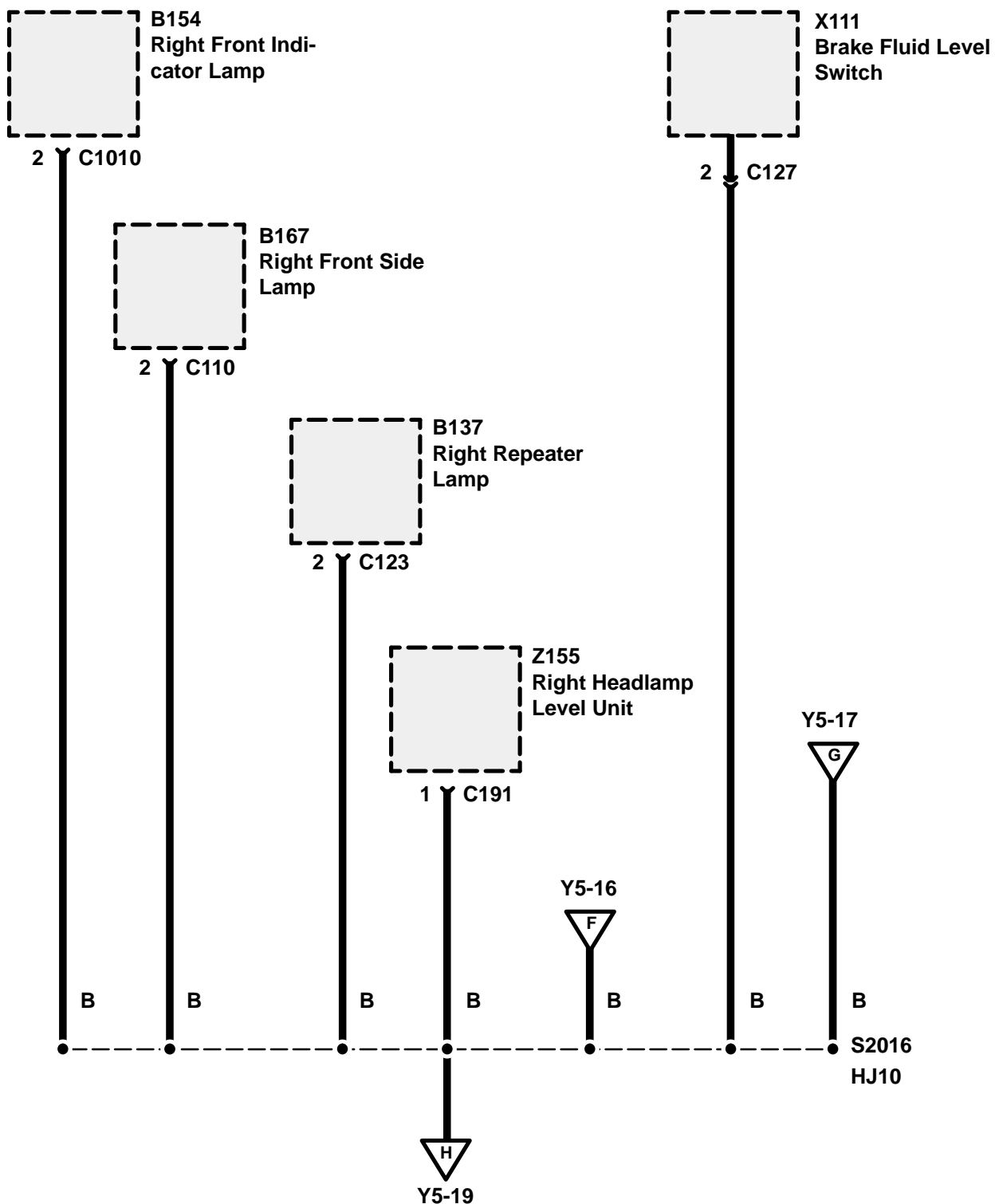
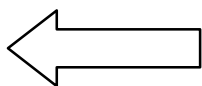
Except Japan without Theft Alarm

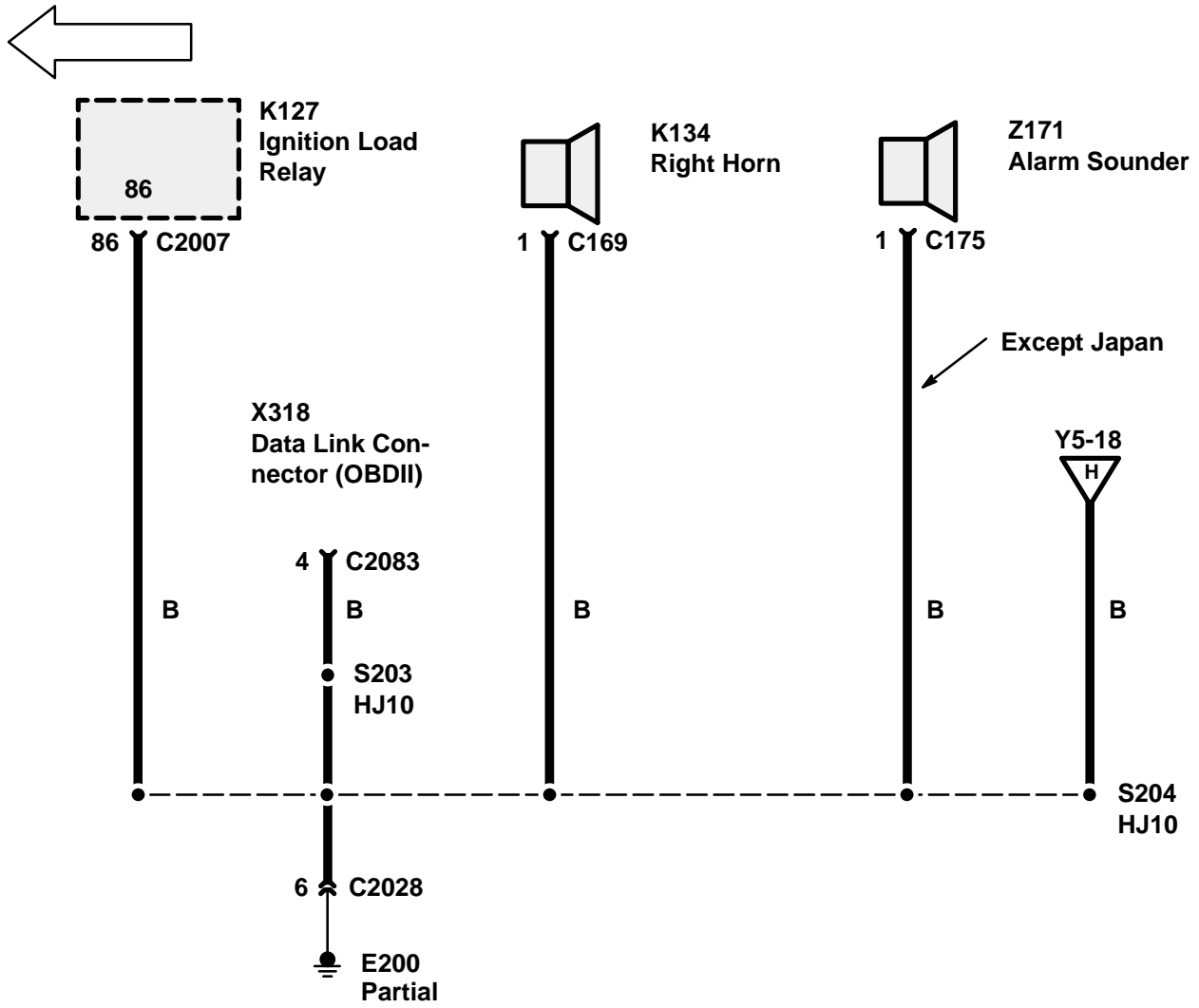


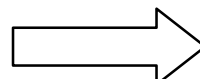
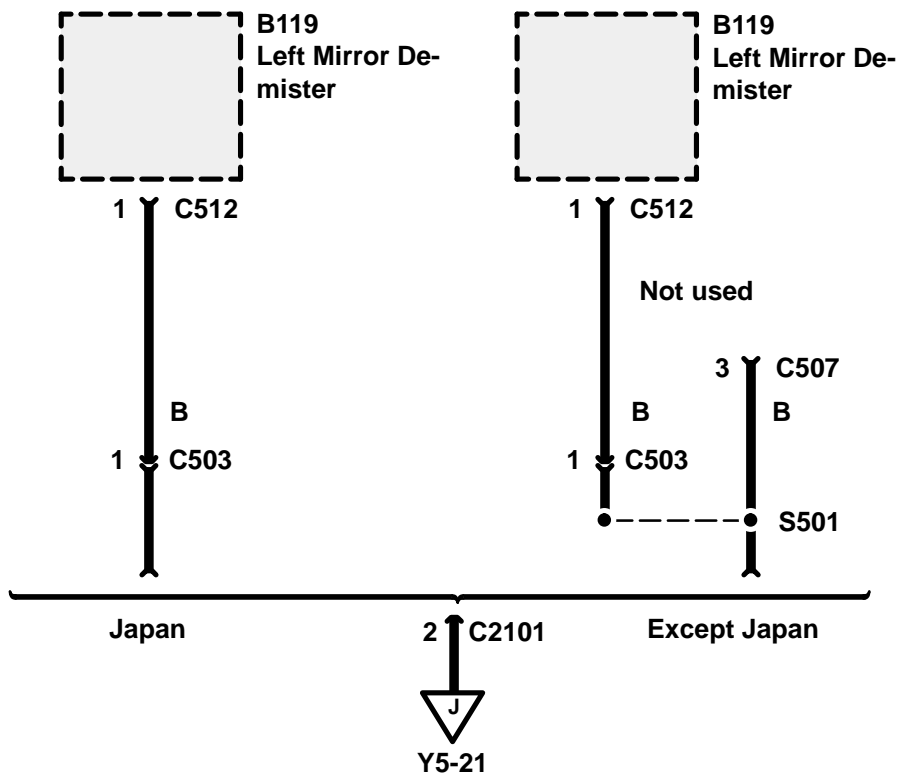
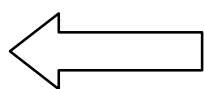
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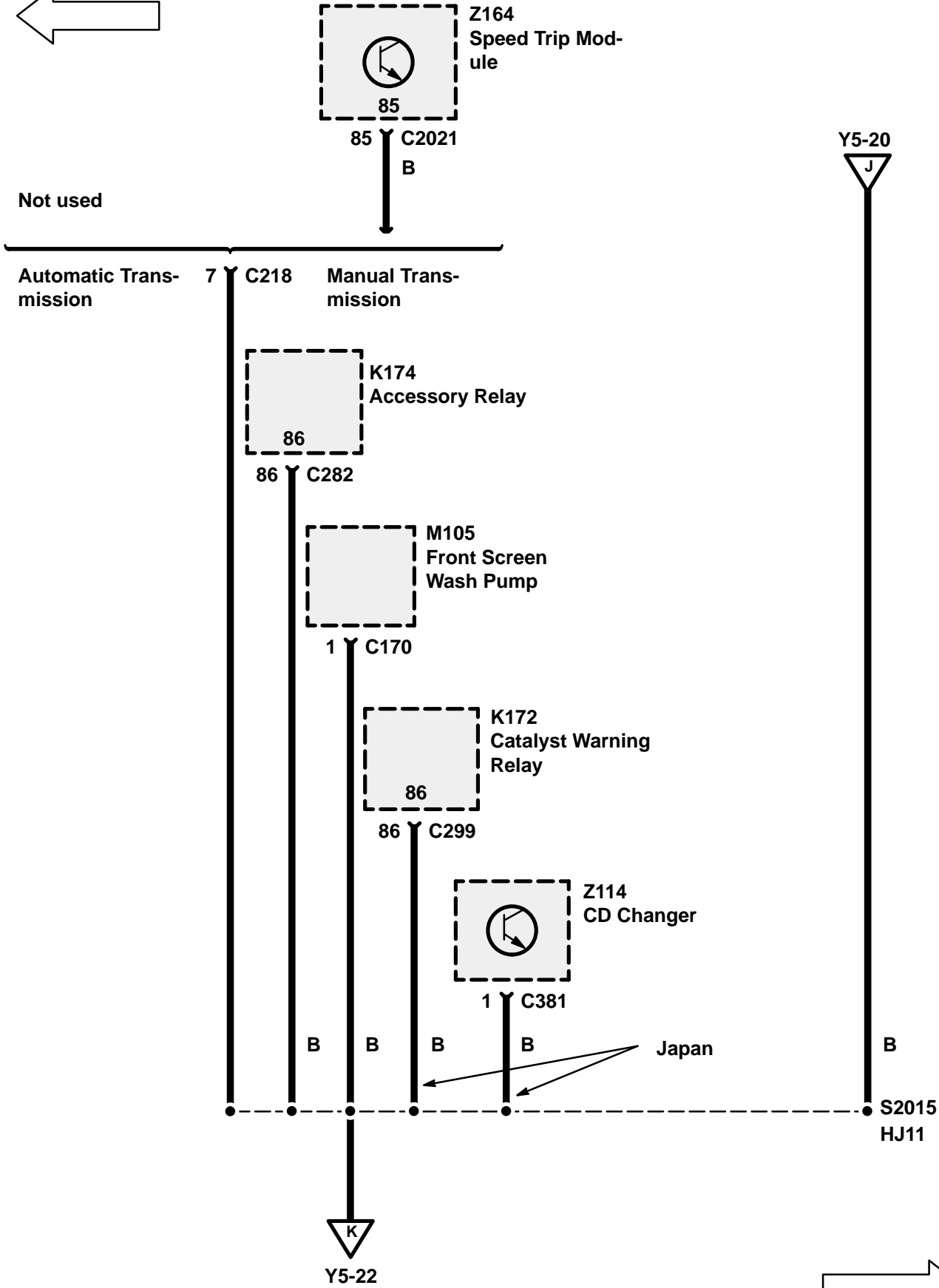
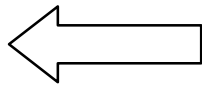












Not used

Automatic Trans-  
mission

Manual Trans-  
mission

Z164  
Speed Trip Mod-  
ule

85  
C2021

Y5-20  
J

K174  
Accessory Relay

86  
C282

M105  
Front Screen  
Wash Pump

1  
C170

K172  
Catalyst Warning  
Relay

86  
C299

Z114  
CD Changer

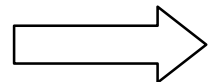
1  
C381

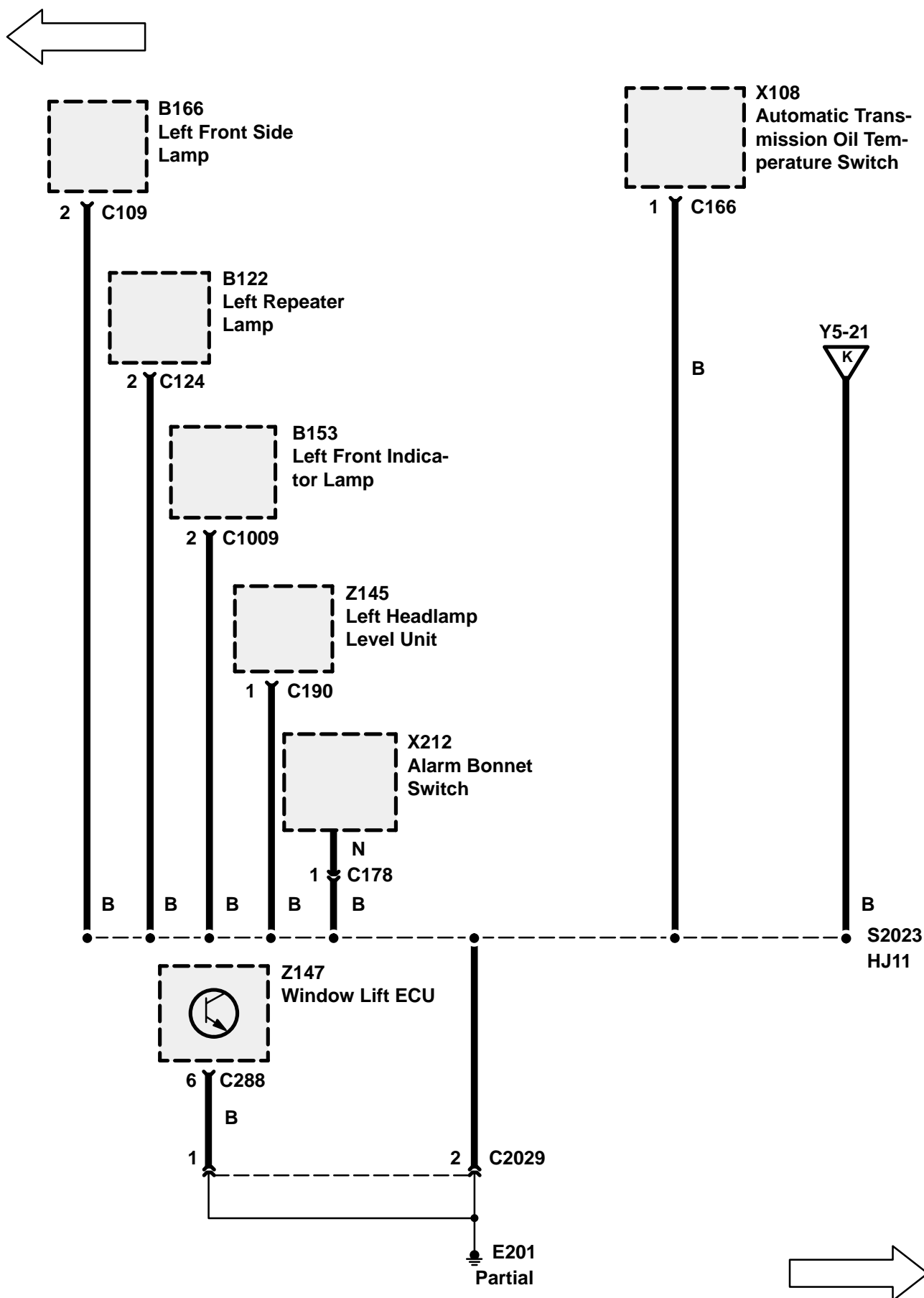
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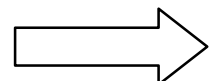
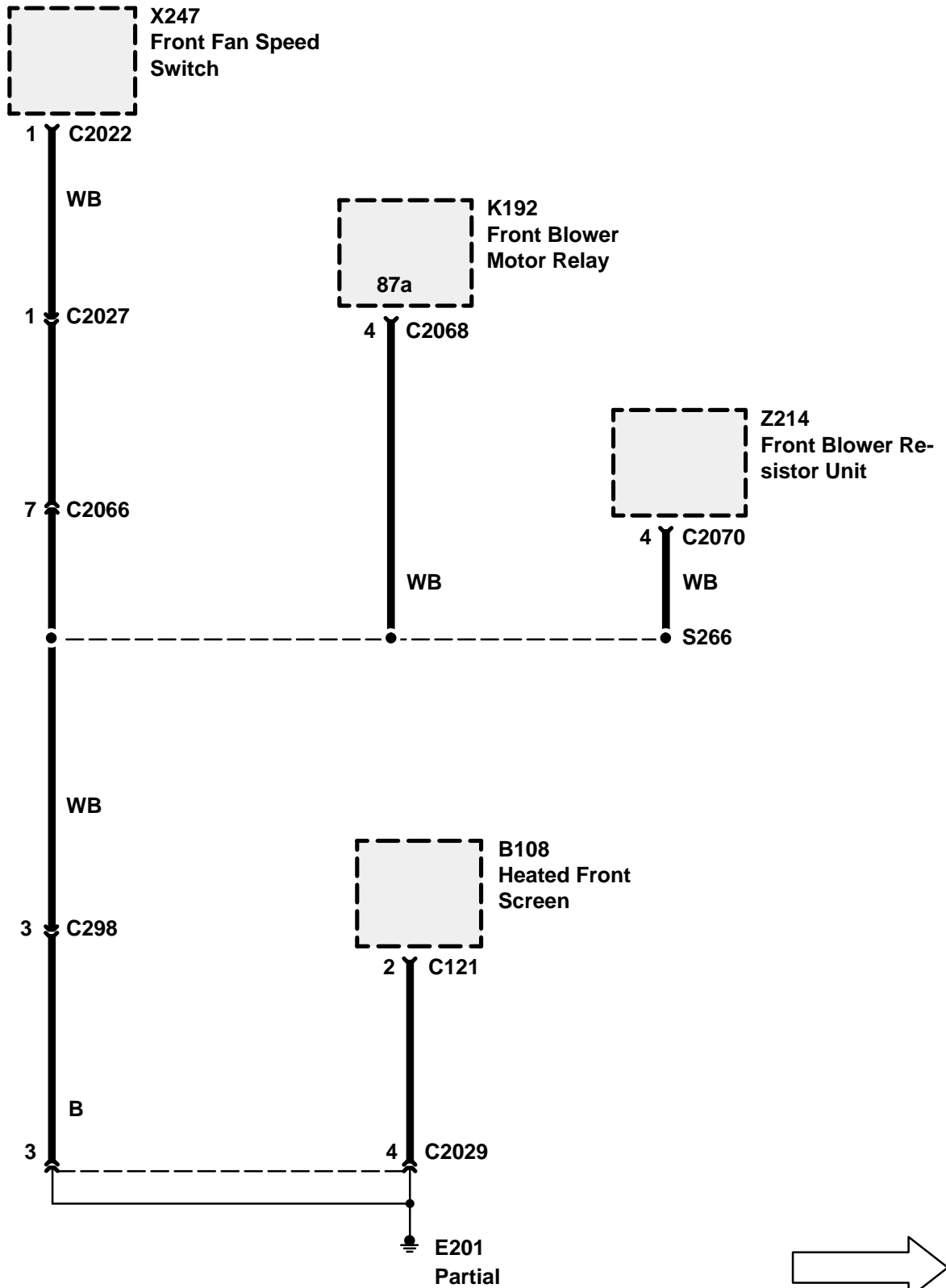
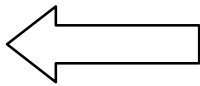
B

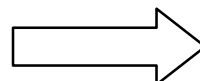
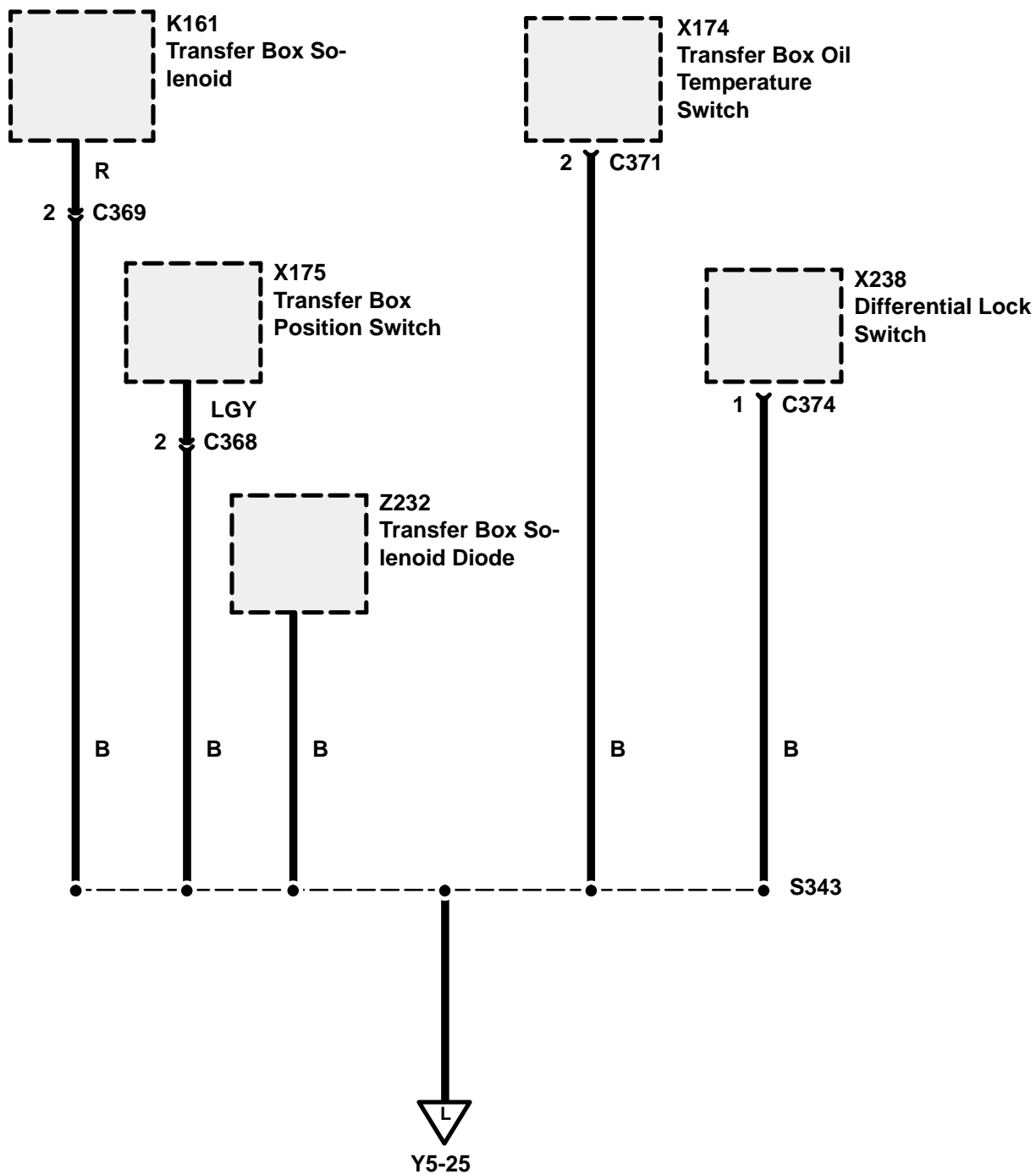
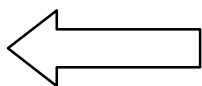
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HJ11

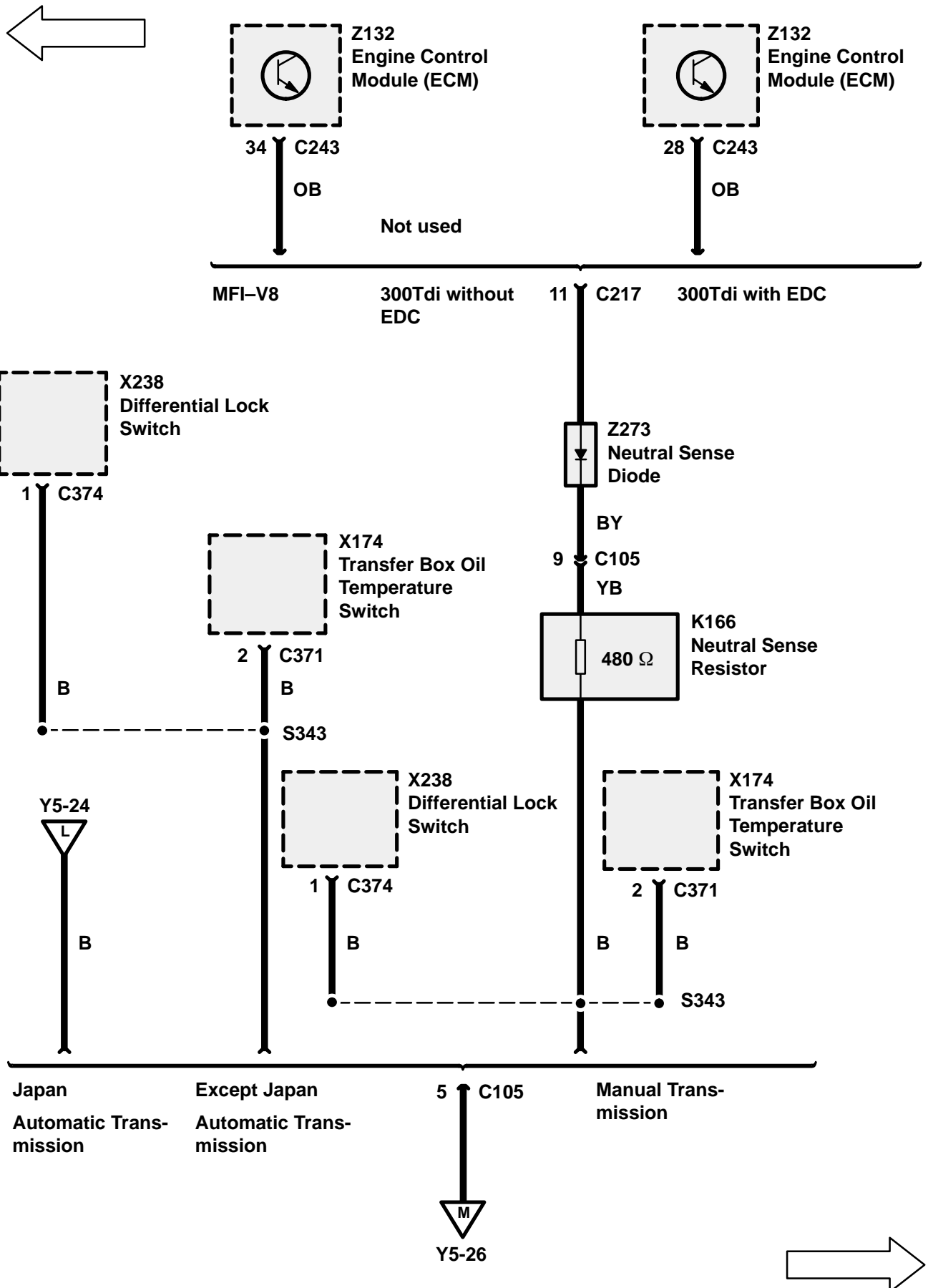
Y5-22  
K



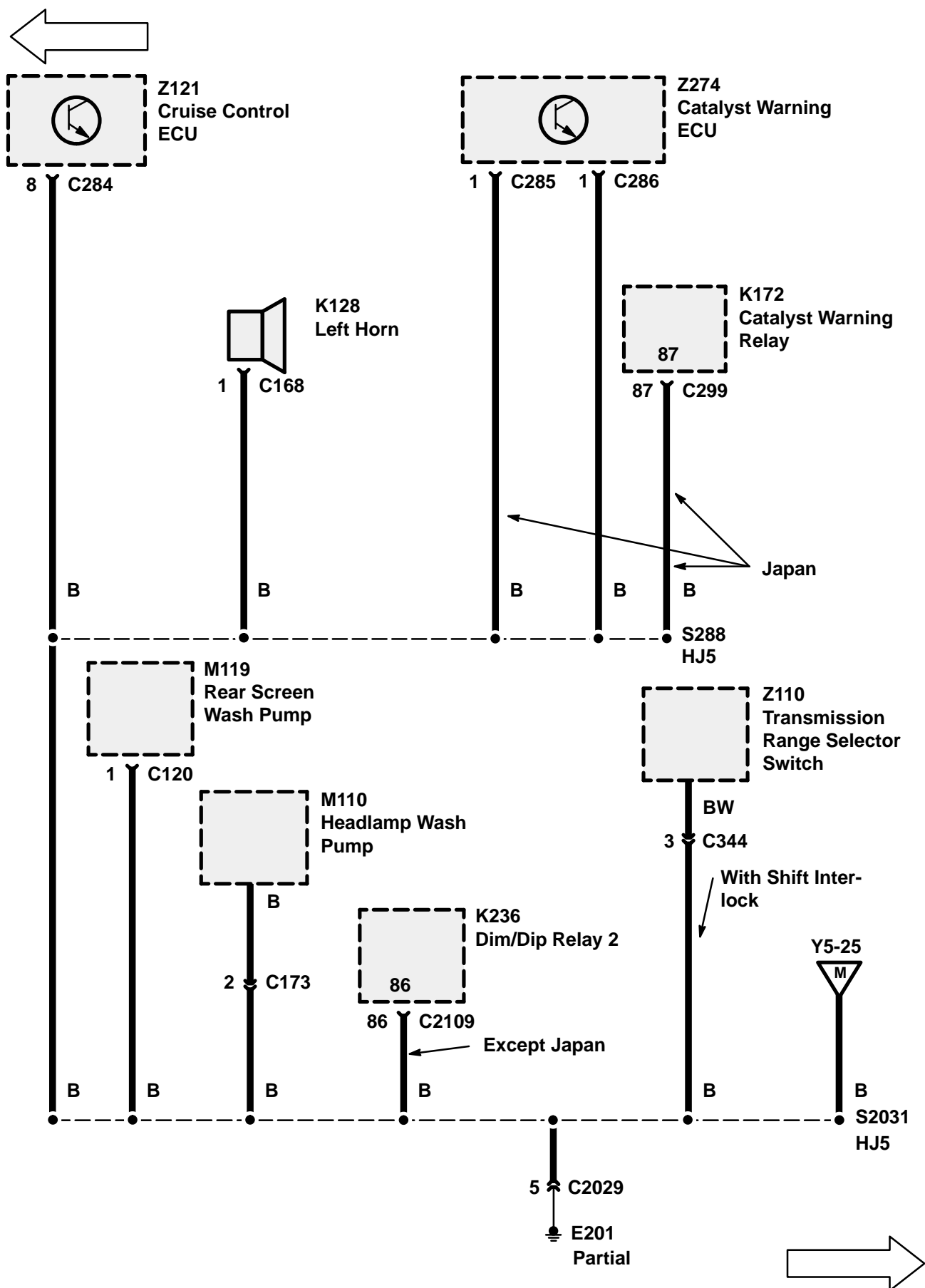


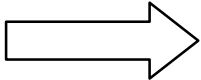
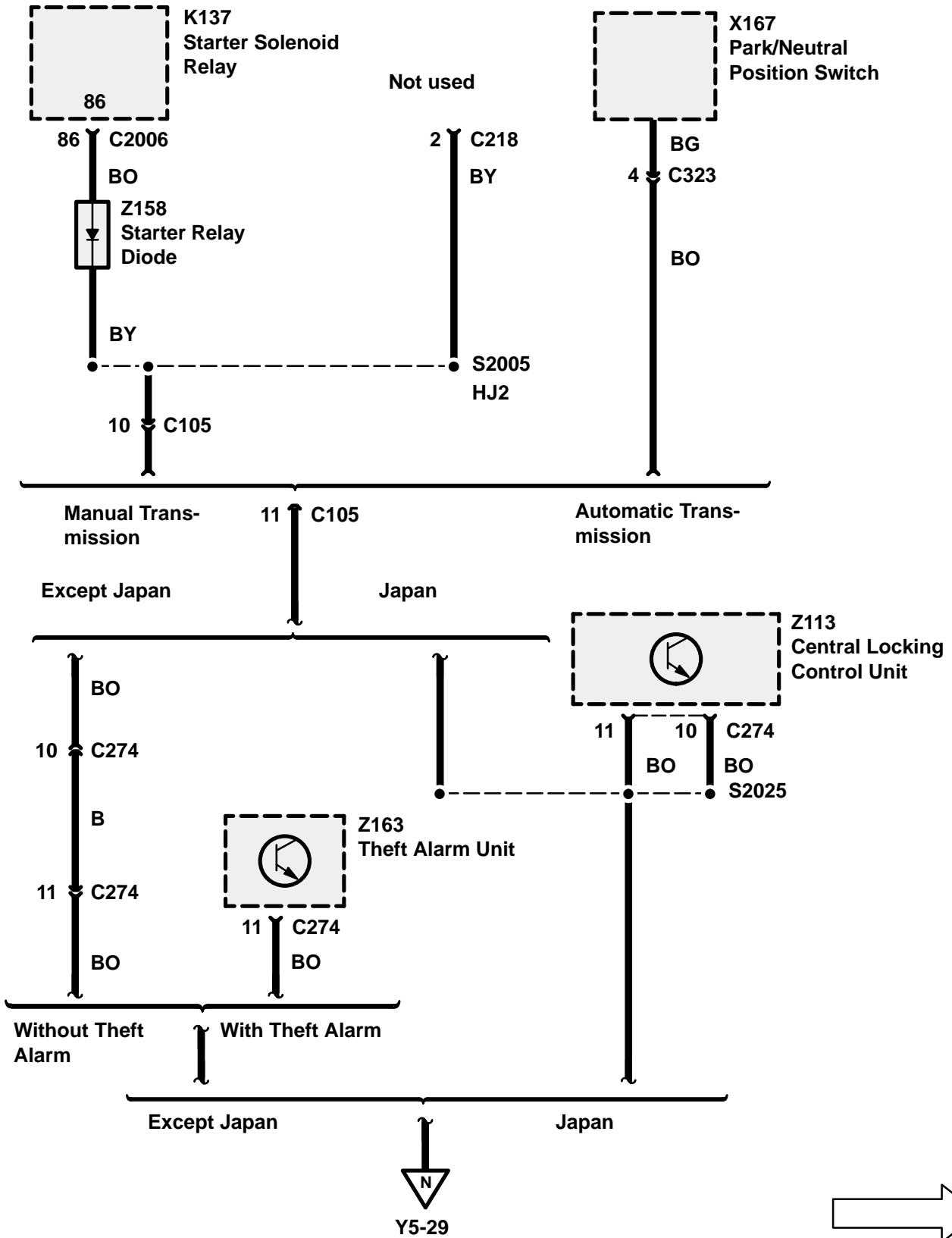
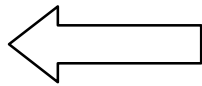


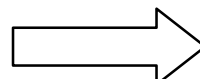
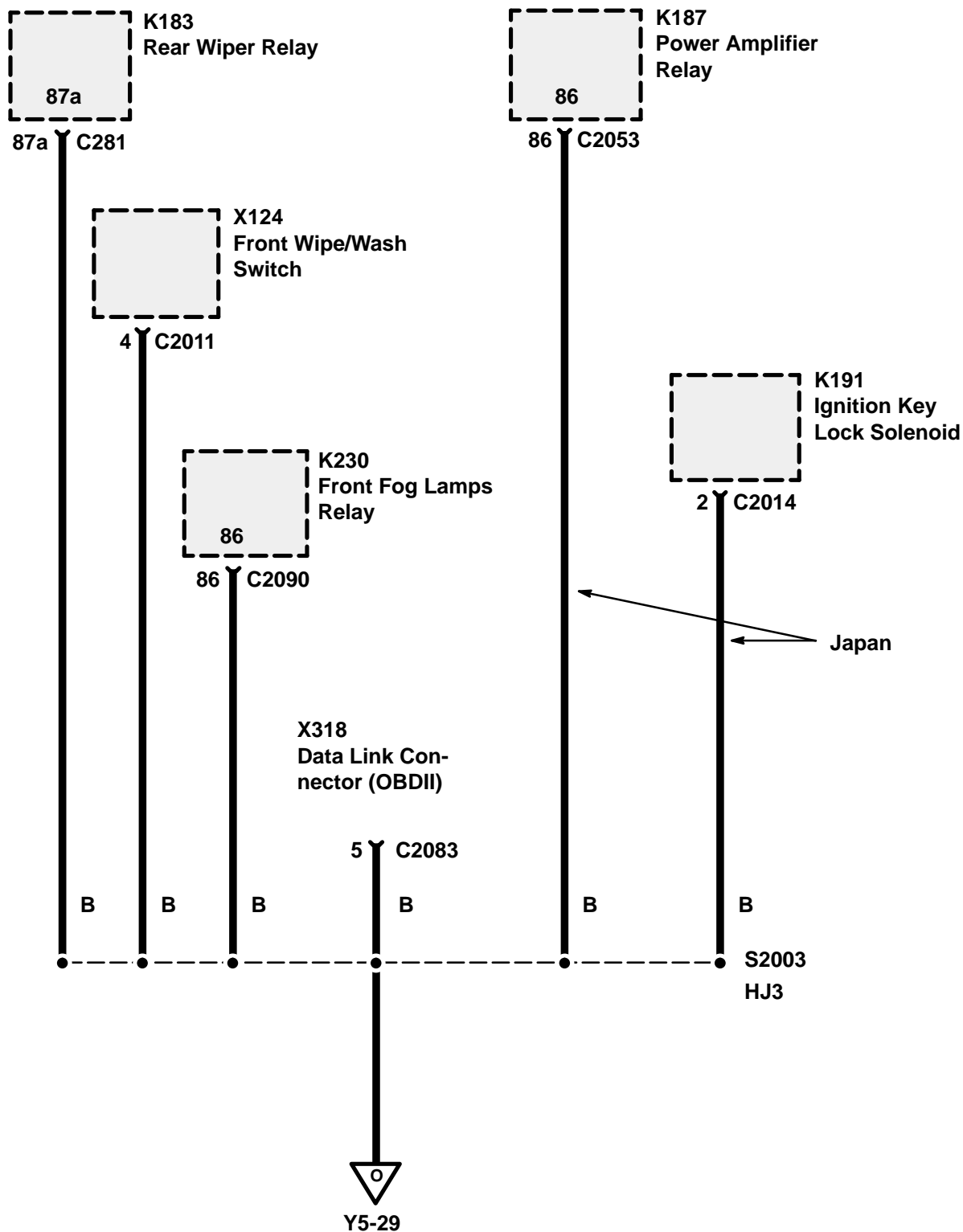
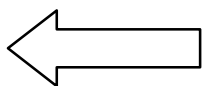


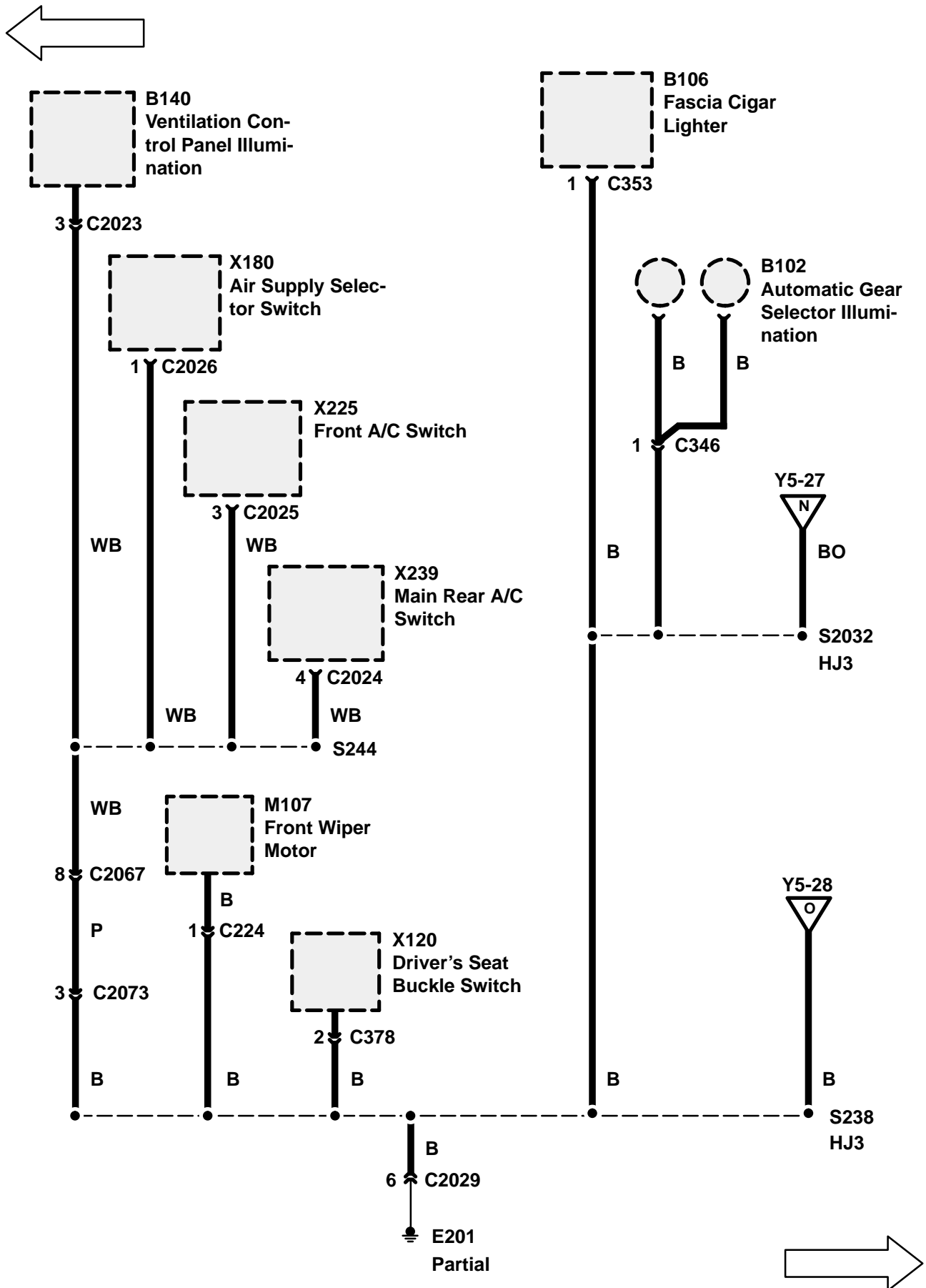


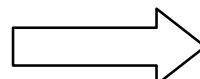
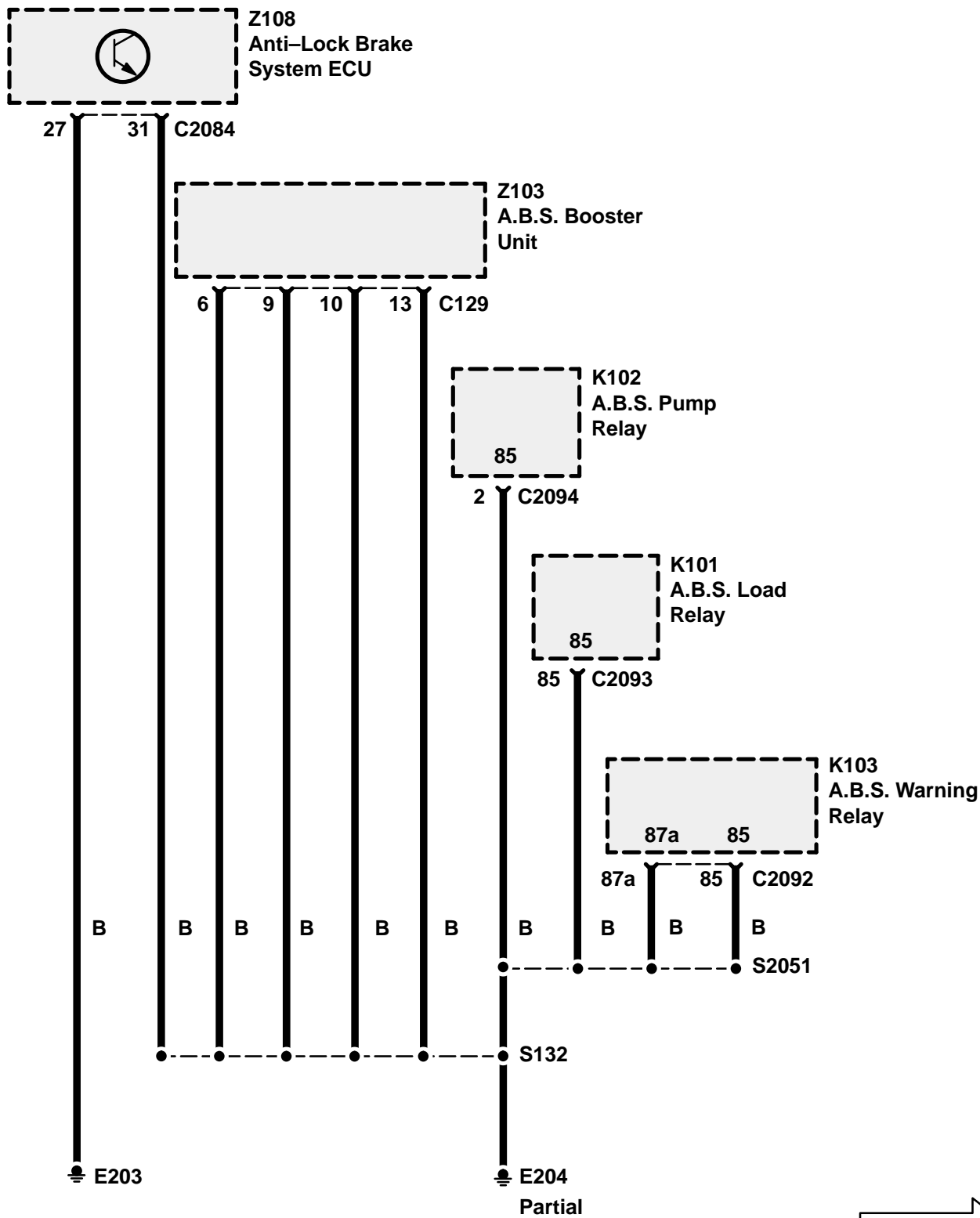
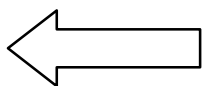


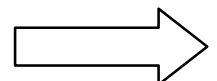
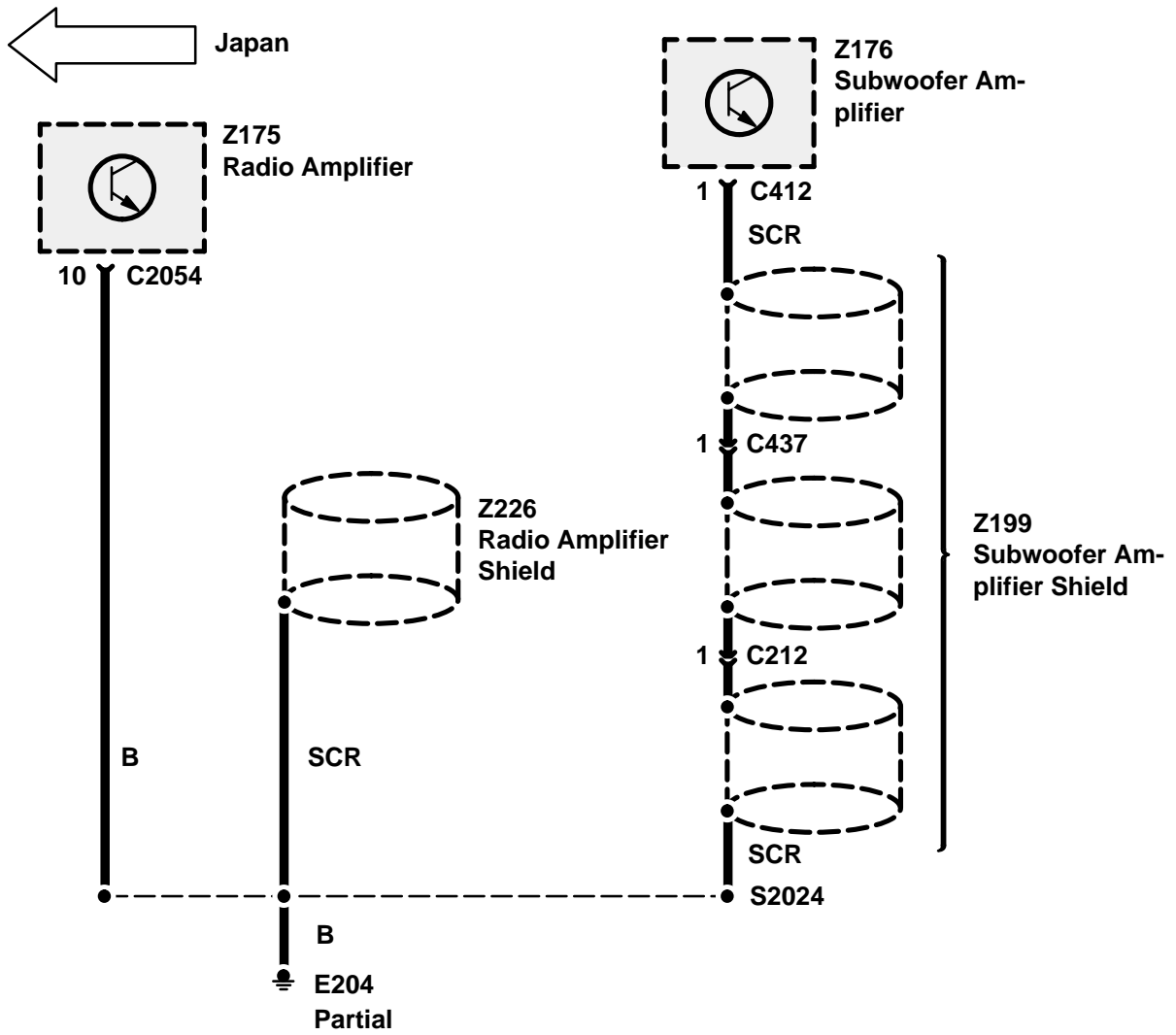


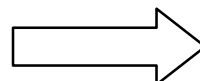
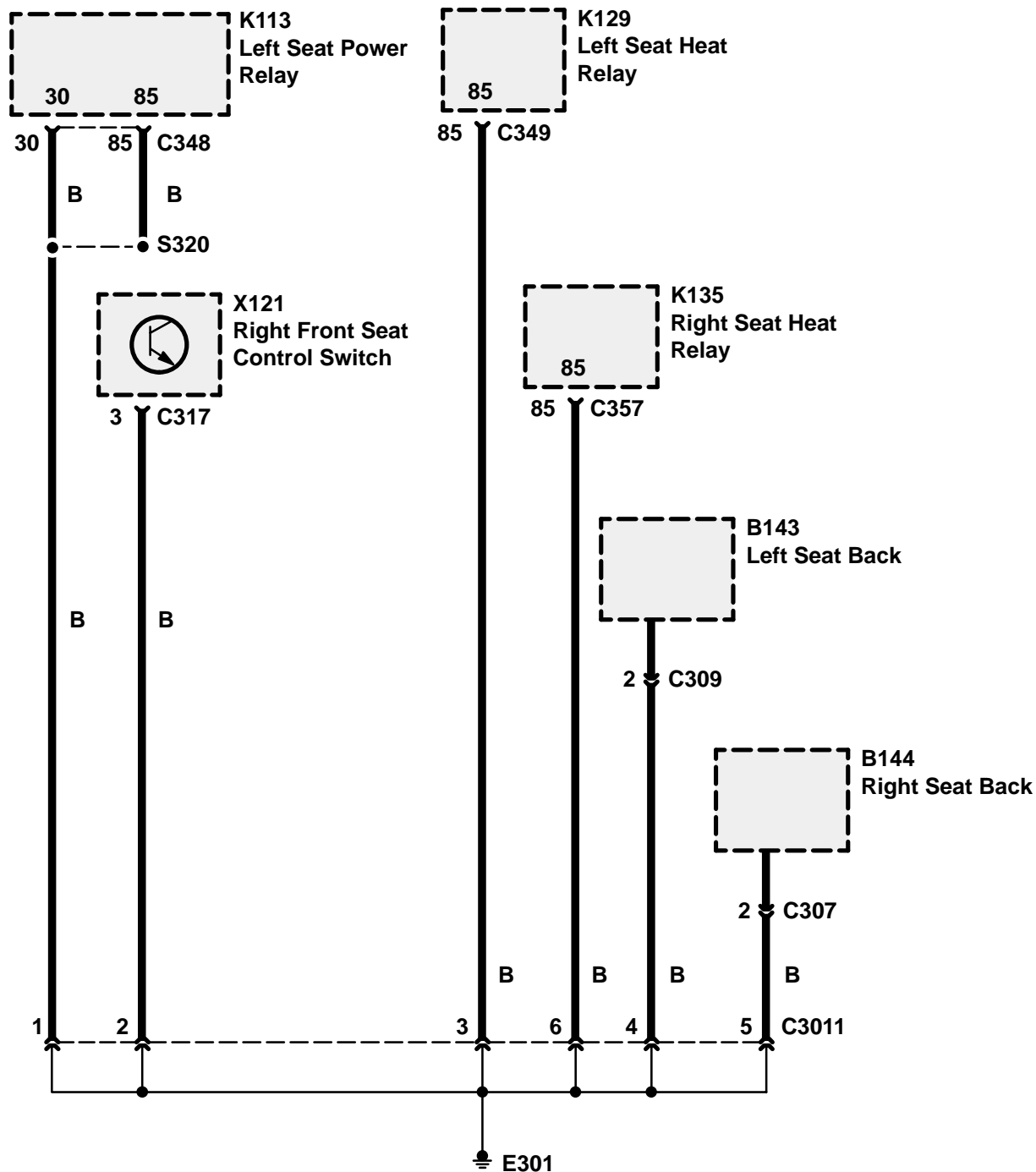
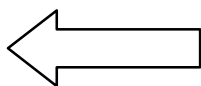


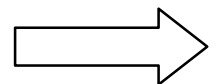
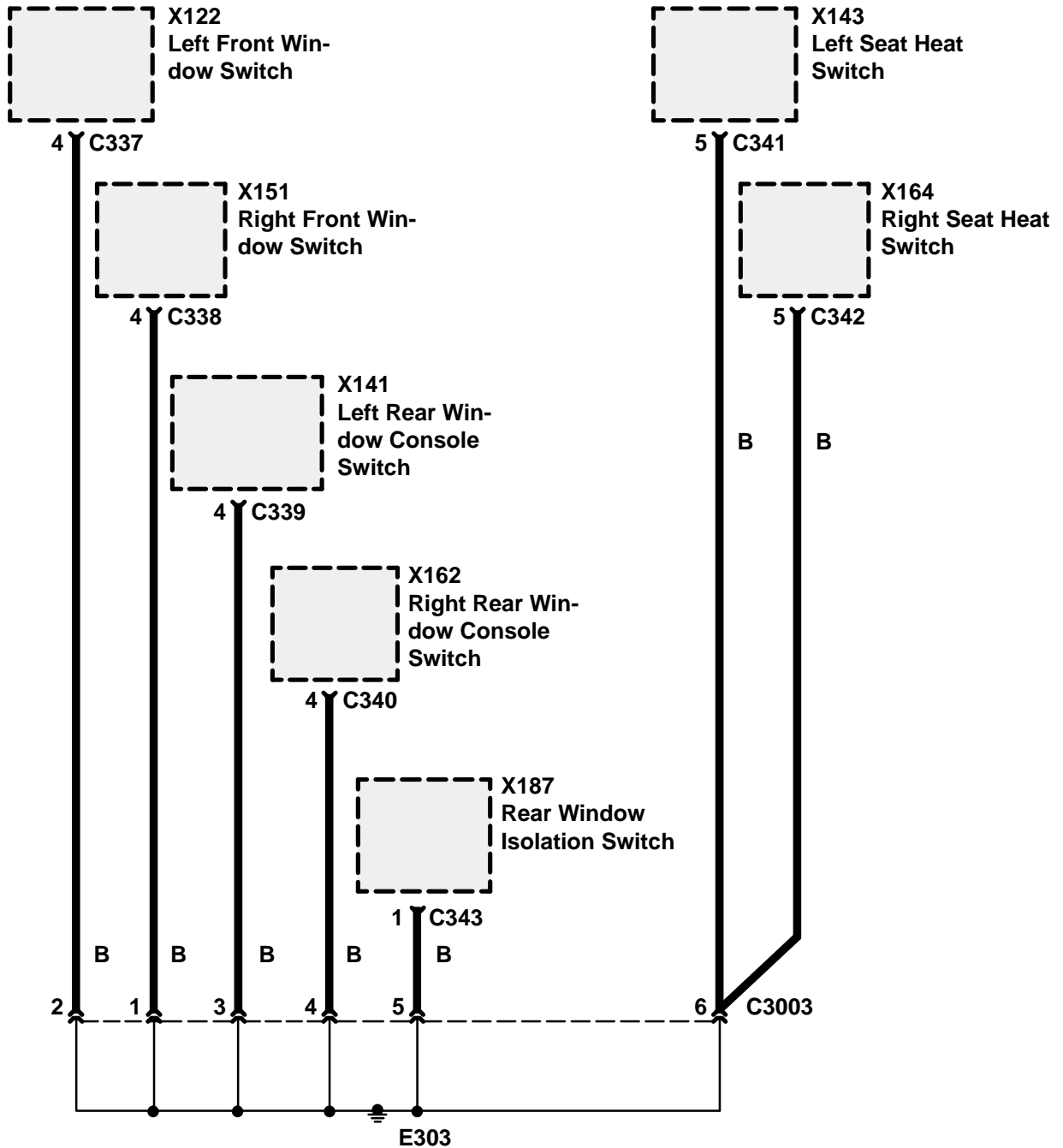
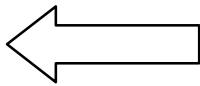




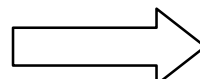
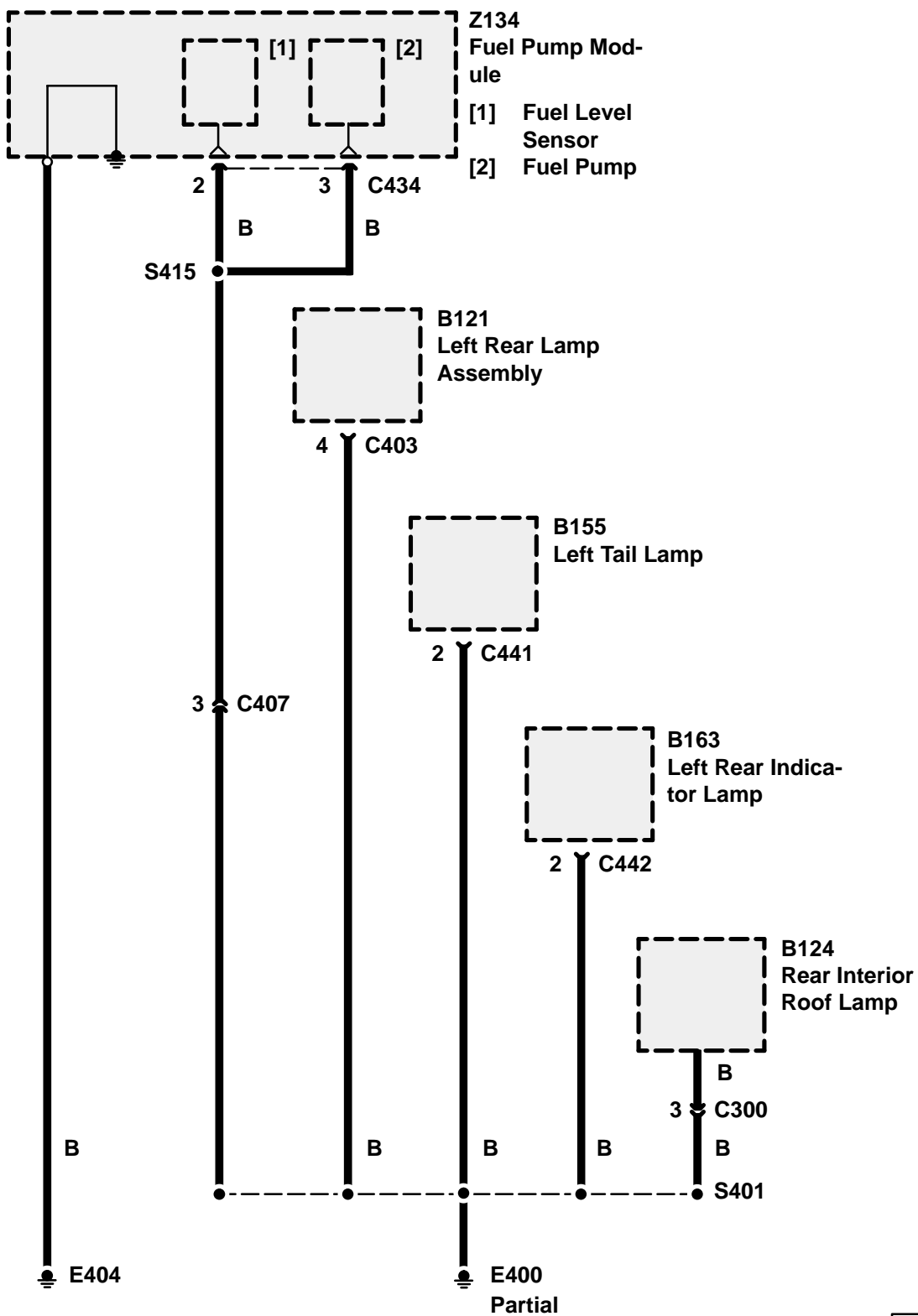
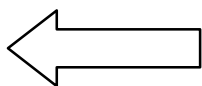


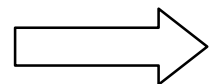
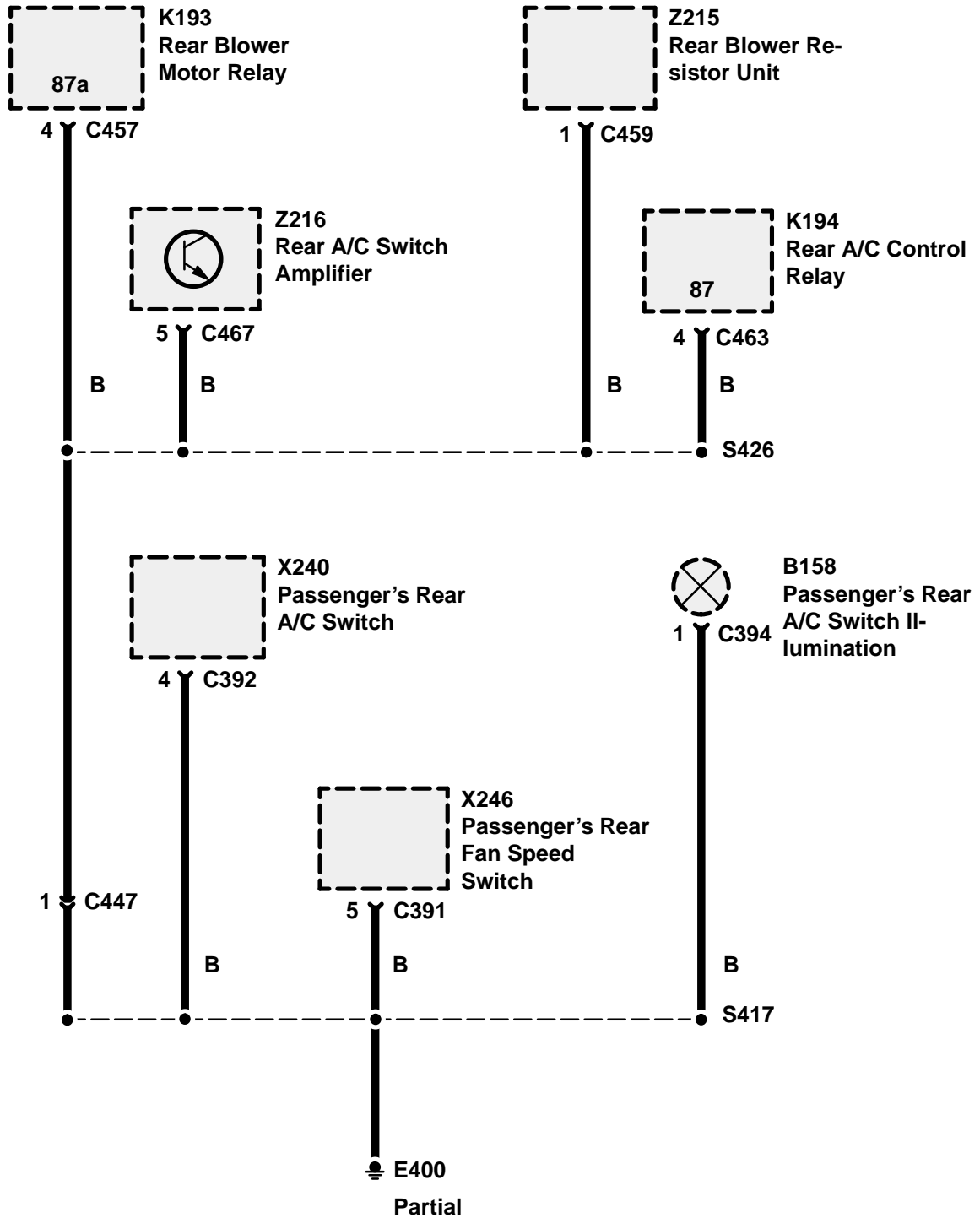


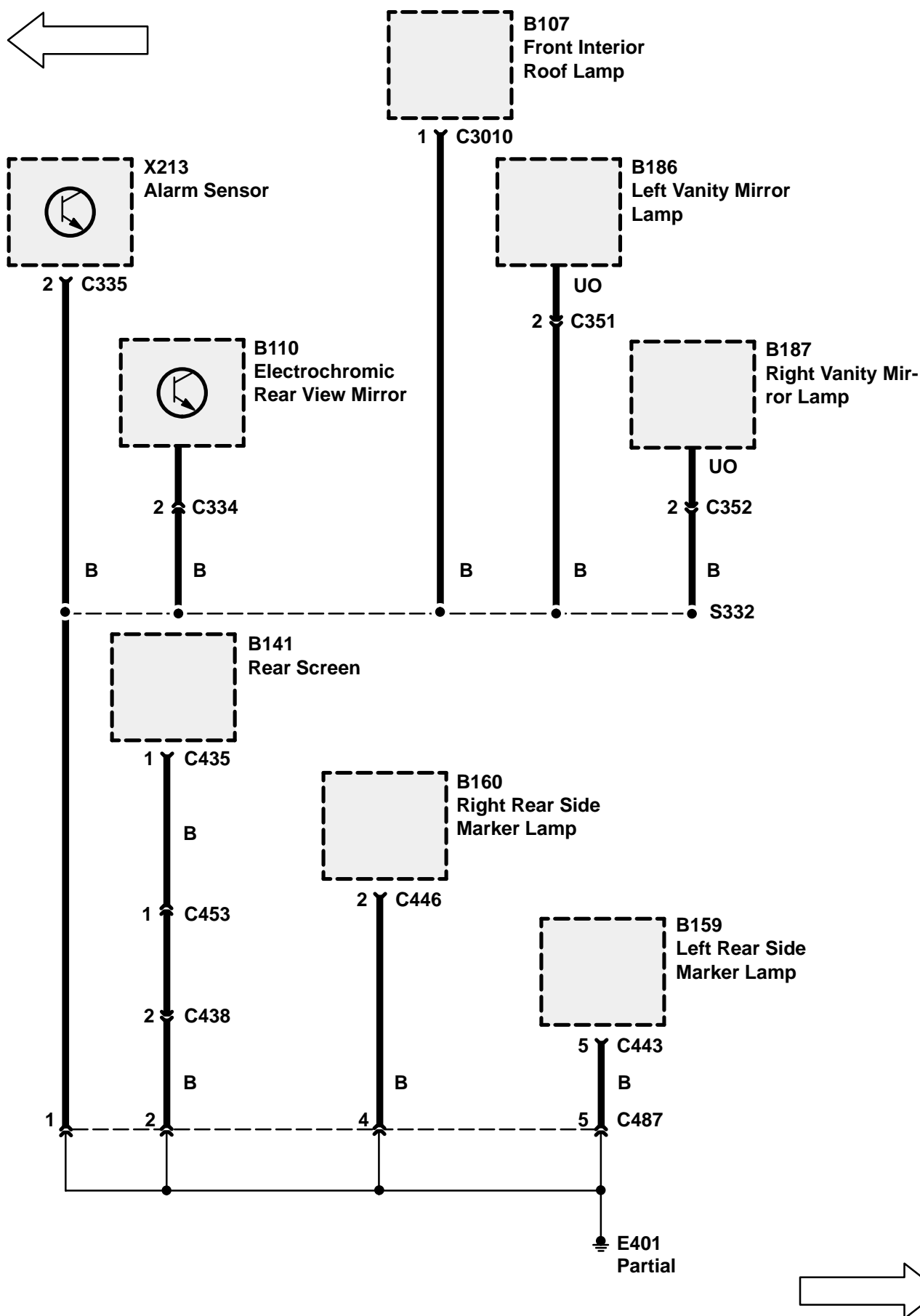


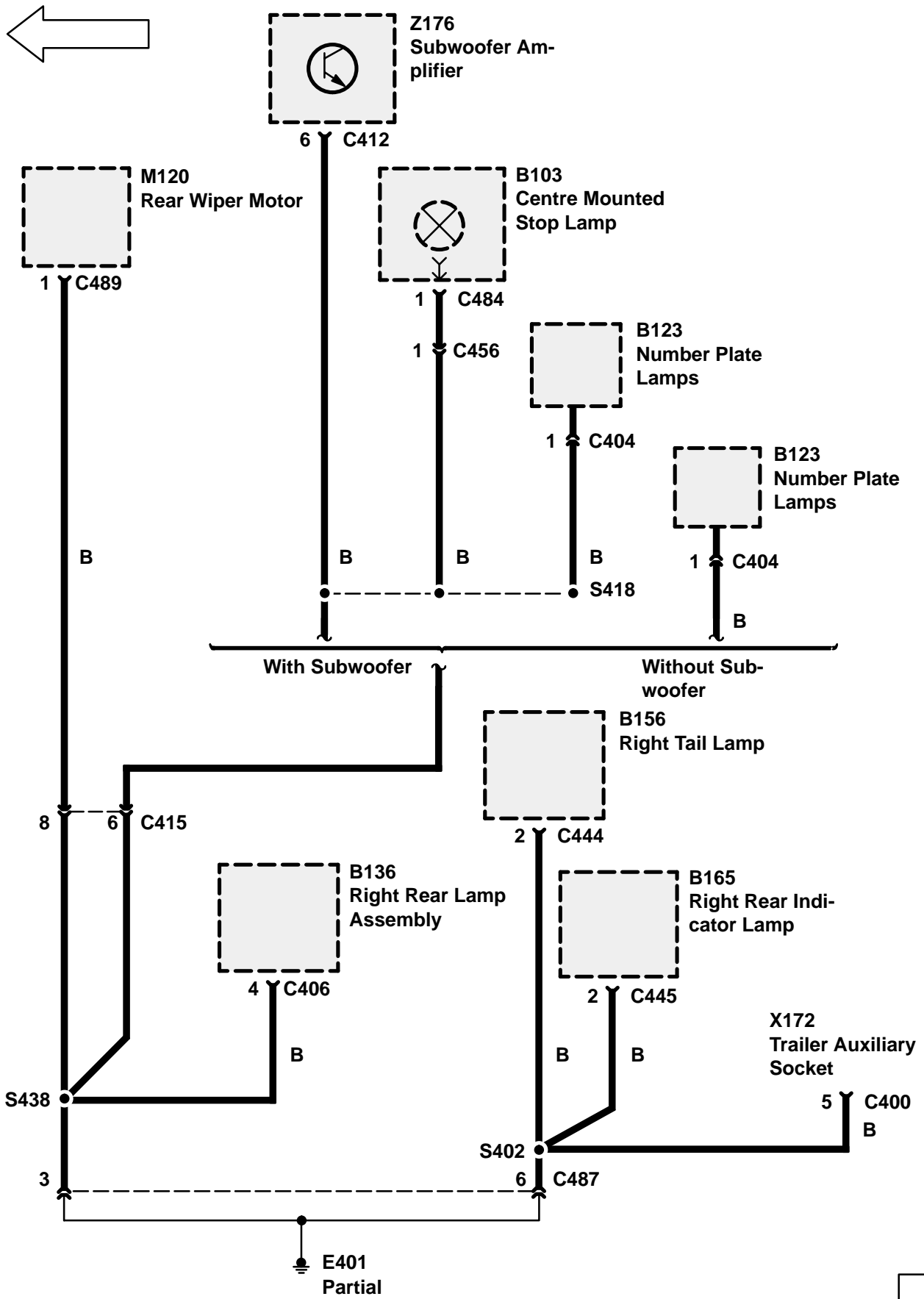












Component	Location	Manual	View
A/C Dual Pressure Switch (X102)	RH rear of engine compartment	82	77
A/C Logic Relay (K170)	behind RH footwell trim panel	82	175
A.B.S. Booster Unit (Z103)	LH rear of engine compartment	70	4
A.B.S. Hydraulic Pump (M102)	LH rear of engine compartment	70	4
A.B.S. Load Relay (K101) (Automatic Transmission)	behind LH side of fascia on bracket	70	105
A.B.S. Load Relay (K101) (Manual Transmission)	behind LH side of fascia on bracket	70	232
A.B.S. Pump Relay (K102) (Automatic Transmission)	behind LH side of fascia on bracket	70	106
A.B.S. Pump Relay (K102) (Manual Transmission)	behind LH side of fascia on bracket	70	233
A.B.S. Warning Relay (K103) (Automatic Transmission)	behind LH side of fascia on bracket	70	105
A.B.S. Warning Relay (K103) (Manual Transmission)	behind LH side of fascia on bracket	70	232
Accessory Relay (K174)	behind LH footwell trim panel	86	93
Air Bag Diagnostic Control Module (Z151)	beneath centre console	76	126
Air Recirculation Solenoid (K123)	behind LH side of fascia LH side of heater evaporator unit	82	100
Air Recirculation Solenoid In-Line Fuse (P138)	behind LH side of fascia	82	108
Air Supply Selector Diode (Z208)	Heater Switch Wire Harness near C2067	82	113
Air Supply Selector Switch (X180)	centre of fascia	82	121
Alarm Bonnet Switch (X212)	LH front of engine compartment	86	227
Alarm Sensor (X213)	top of LH B-post	86	241
Alarm Sounder (Z171) (300Tdi)	RH front of engine compartment	86	42
Alarm Sounder (Z171) (MFI-V8) (MFI-T16)	RH front of engine compartment	86	41
Anti-Lock Brake System ECU (Z108)	behind LH side of fascia on bracket	70	98
Automatic Transmission Oil Temperature Switch (X108)	lower LH front of engine compartment	86	25
Battery Backed Up Alarm Sounder (Z272)	RH front of engine compartment	86	47
Boost Pressure Air Temperature Sensor (X254)	top rear of engine	19	21
Boost Pressure Sensor (X253)	LH rear of engine compartment	19	11
Brake Fluid Level Switch (X111)	RH rear of engine compartment top of brake fluid reservoir	70	79
Brake Switch Vent Valve (X112)	behind RH side of fascia on brake pedal support	19	158
Catalyst Overheat Sensor 1 (X299)	beneath centre of vehicle	86	84

Component	Location	Manual	View
Catalyst Overheat Sensor 2 (X300)	beneath centre of vehicle	86	84
Catalyst Warning ECU (Z274)	behind LH side of fascia	86	
Catalyst Warning Relay (K172) (Japan)	behind LH side of fascia above glove box	86	236
CD Changer (Z114)	beneath RH front seat	86	195
Central Locking Control Unit (Z113)	behind LH side of fascia on bracket	86	102
Clock (Z117)	centre of fascia	86	115
Clutch Pedal Position Switch (X200)	behind RH side of fascia near steering column	86	157
Column Switch Illumination (B104)	top of steering column on Ignition Switch	86	151
Compressor Clutch (K107) (300Tdi with EDC)	RH side of engine on front of A/C compressor	82	57
Compressor Clutch (K107) (300Tdi without EDC)	RH side of engine on front of A/C compressor	82	56
Compressor Clutch (K107) (MFI-T16)	RH side of engine on front of A/C compressor	82	
Compressor Clutch (K107) (MFI-V8)	RH side of engine on front of A/C compressor	82	48
Compressor Clutch Cut-out Switch (X259)	RH front of engine	82	52
Compressor Clutch Relay (K108) (300Tdi with EDC)	behind RH footwell trim panel	82	177
Compressor Clutch Relay (K108) (MFI-V8) (MFI-T16) (300Tdi without EDC)	behind RH footwell trim panel	82	174
Condenser Fan Control Diode 1 (Z209)	Engine Wire Harness near C217	82	
Condenser Fan Control Diode 2 (Z210)	Main Wire Harness near C2035	82	137
Condenser Fan Coolant Temperature Switch (X113) (300Tdi with EDC)	RH front of engine on thermostat housing	82	51
Condenser Fan Coolant Temperature Switch (X113) (MFI-V8)	top centre front of engine	82	62
Condenser Fan Coolant Temperature Switch (X113) (300Tdi without EDC)	RH front of engine	82	53
Condenser Fan Relay (K109) (Automatic Transmission)	behind LH side of fascia on bracket	86	103
Condenser Fan Relay (K109) (Manual Transmission)	behind LH side of fascia on bracket	86	231
Cooling Fan Motor 1 (M141) (MFI-T16 with Air Conditioning)	front of engine compartment	82	
Cooling Fan Motor 1 (M141) (MFI-T16 without Air Conditioning)	front of engine compartment	82	32
Cooling Fan Motor 2 (M142)	front of engine compartment	82	

Component	Location	Manual	View
Cooling Fan Relay (K190) . . .	behind RH footwell trim panel . . . . .	82 . . . . .	171
Crankshaft Position Sensor (X250) . . . . .	lower RH rear of engine . . . . .	19 . . . . .	72
Cruise Control Diode (Z186) (Automatic Transmission) . . .	Cruise Control Wire Harness near C218 . . . . .	19 . . . . .	106
Cruise Control Diode (Z186) (Manual Transmission) . . . . .	Cruise Control Wire Harness near C218 . . . . .	19 . . . . .	233
Cruise Control Disable Relay (K234) . . . . .	behind RH footwell trim panel . . . . .	19 . . . . .	177
Cruise Control ECU (Z121) . .	behind LH side of fascia on bracket . . . . .	19 . . . . .	99
Cruise Control Lockout Relay (K110) . . . . .	behind LH side of fascia on bracket . . . . .	19 . . . . .	107
Cruise Control Switch (X115)	centre of fascia . . . . .	19 . . . . .	116
Cruise Control Vacuum Pump (M103) . . . . .	LH front corner of engine compartment . . . . .	19 . . . . .	22
Data Link Connector (EGR) (X219) (300Tdi with EGR) . . .	behind RH side of fascia . . . . .	19 . . . . .	172
Data Link Connector (MFI) (X321) (MFI-T16) . . . . .	RH rear corner of engine compartment . . . . .	19 . . . . .	75
Data Link Connector (MFI) (X321) (MFI-V8) . . . . .	behind RH side of fascia . . . . .	19 . . . . .	169
Data Link Connector (OBDII) (X318) . . . . .	behind RH side of fascia . . . . .	19 . . . . .	135
Diesel Immobilisation Unit (DDS) (Z276) . . . . .	RH side of engine . . . . .	19 . . . . .	67
Differential Lock Switch (X238) . . . . .	top RH side of transfer box . . . . .	86 . . . . .	90
Dim/Dip Relay 1 (K235) (Automatic Transmission) . . .	behind LH side of fascia on bracket . . . . .	86 . . . . .	104
Dim/Dip Relay 1 (K235) (Manual Transmission) . . . . .	behind LH side of fascia on bracket . . . . .	86 . . . . .	230
Dim/Dip Relay 2 (K236) . . . .	behind LH footwell trim panel . . . . .	86 . . . . .	94
Dim/Dip Resistor (K175) . . . .	LH rear of engine compartment . . . . .	86 . . . . .	3
Direction Indicator Diode 1 (Z212) . . . . .	behind instrument cluster . . . . .	86 . . . . .	156
Direction Indicator Diode 2 (Z213) . . . . .	behind instrument cluster . . . . .	86 . . . . .	155
Direction Indicator Switch (X116) . . . . .	top of steering column . . . . .	86 . . . . .	143
Distributor (Z125) (MFI-T16)	top rear of engine . . . . .	86	
Distributor (Z125) (MFI-V8) . .	top centre front of engine . . . . .	86 . . . . .	18
Driver's Seat Buckle Switch (X120) . . . . .	inside driver's seat belt buckle assembly . . . . .	86	
Driver's Underseat Fuse Box (P108) . . . . .	beneath LH front seat . . . . .	86 . . . . .	191
EGR Control Solenoid (K171)	LH front of engine compartment . . . . .	19 . . . . .	24
EGR Valve Control Module (Z149) . . . . .	behind RH side of fascia . . . . .	19 . . . . .	172
EGR Valve Position Sensor (X218) . . . . .	LH side of engine . . . . .	19 . . . . .	7

Component	Location	Manual	View
Electrochromic Rear View Mirror (B110)	front centre of roof	86	133
Engine Compartment Fuse Box (P125) (300Tdi)	RH front of engine compartment	86	42
Engine Compartment Fuse Box (P125) (MFI-V8) (MFI-T16)	RH front of engine compartment	86	41
Engine Control Load Relay (K116) (300Tdi with EDC)	behind RH footwell trim panel	19	176
Engine Control Load Relay (K116) (MFI-V8)	behind RH footwell trim panel	19	173
Engine Control Module (ECM) (Z132) (300Tdi with EDC)	behind RH side of fascia	19	176
Engine Control Module (ECM) (Z132) (MFI-T16)	RH rear corner of engine compartment	19	76
Engine Control Module (ECM) (Z132) (MFI-V8)	behind RH side of fascia	19	169
Engine Coolant Temperature Gauge Sensor (X114) (300Tdi with EDC)	RH front of engine on thermostat housing	86	51
Engine Coolant Temperature Gauge Sensor (X114) (300Tdi without EDC)	RH front of engine	86	52
Engine Coolant Temperature Gauge Sensor (X114) (MFI-T16)	top LH front of engine	86	15
Engine Coolant Temperature Gauge Sensor (X114) (MFI-V8)	top LH front of engine on intake manifold	86	13
Engine Coolant Temperature Sensor (X126) (300Tdi with EDC)	top centre of engine	19	21
Engine Coolant Temperature Sensor (X126) (300Tdi without EDC)	top centre of engine	19	20
Engine Coolant Temperature Sensor (X126) (MFI-T16)	top LH front of engine	19	15
Engine Coolant Temperature Sensor (X126) (MFI-V8)	top LH front of engine on intake manifold	19	13
Engine Fuel Temperature Sensor (X128) (MFI-T16)	top RH side of engine	19	50
Engine Fuel Temperature Sensor (X128) (MFI-V8)	top LH front of engine on fuel rail	19	13
Engine Immobilisation Control Unit (Spider) (Z271)	behind centre of fascia above heater evaporator unit	86	119
Engine Speed Sensor (X255)	RH rear of engine	19	69
Evaporative Emission Canister Purge Valve (K132) (MFI-T16)	RH rear of engine compartment	17	75
Evaporative Emission Canister Purge Valve (K132) (MFI-V8)	RH side of engine compartment	17	74



Component	Location	Manual	View
Fan Control Module (Z118) . .	behind RH footwell trim panel . . . . .	82 . . . . .	174
Fan Timer Diode (Z211) . . . . .	Main Wire Harness behind LH side of fascia near HJ11 . . . . .	82 . . . . .	110
Fascia Cigar Lighter (B106) . .	in front of centre console . . . . .	86 . . . . .	122
Fascia Fuse Box (P126) . . . . .	behind RH side of fascia . . . . .	86 . . . . .	160
Flasher Unit (Z128) . . . . .	behind RH side of fascia on Fascia Fuse Box . . . . .	86 . . . . .	161
Front A/C Evaporator Temperature Switch (X101) . .	LH side of heater evaporator unit . . . . .	82 . . . . .	114
Front A/C Switch (X225) . . . . .	centre of fascia . . . . .	82 . . . . .	120
Front Blower Motor (M101) . .	behind LH side of fascia LH side of heater evaporator unit . . . . .	82 . . . . .	109
Front Blower Motor Relay (K192) . . . . .	behind LH side of fascia LH side of heater evaporator unit . . . . .	82 . . . . .	108
Front Blower Resistor Unit (Z214) . . . . .	behind LH side of fascia LH side of heater evaporator unit . . . . .	80 . . . . .	113
Front Fan Speed Switch (X247) . . . . .	centre of fascia . . . . .	82 . . . . .	120
Front Fog Lamps Relay (K230) (Automatic Transmission) . . . . .	behind LH side of fascia on bracket . . . . .	86 . . . . .	104
Front Fog Lamps Relay (K230) (Manual Transmission) . . . . .	behind LH side of fascia on bracket . . . . .	86 . . . . .	230
Front Fog Lamps Switch (X270) . . . . .	centre of fascia . . . . .	86 . . . . .	116
Front Interior Roof Lamp (B107) . . . . .	front centre of roof . . . . .	86 . . . . .	131
Front Screen Wash Pump (M105) . . . . .	LH rear corner of engine compartment on wash fluid reservoir . . . . .	84 . . . . .	2
Front Sunroof Motor (M143) . .	front centre of roof . . . . .	76 . . . . .	134
Front Sunroof Switch (X261) . .	front centre of roof . . . . .	76 . . . . .	132
Front Wipe/Wash Switch (X124) . . . . .	top of steering column . . . . .	84 . . . . .	152
Front Wiper Motor (M107) . . . .	RH side of bulkhead . . . . .	84 . . . . .	80
Front Wiper Relay (K185) . . . .	behind RH footwell trim panel . . . . .	84 . . . . .	167
Fuel Injector Assembly (K195) . . . . .	RH side of engine . . . . .	19 . . . . .	60
Fuel Injectors (K141) (MFI-T16) . . . . .	top centre of engine . . . . .	19 . . . . .	19
Fuel Injectors (K141) (MFI-V8) . . . . .	top centre of engine . . . . .	19 . . . . .	12
Fuel Pump Assembly (K196) . .	RH side of engine . . . . .	19 . . . . .	59
Fuel Pump Module (Z134) . . . .	top of fuel tank . . . . .	86 . . . . .	221
Fuel Pump Relay (K119) . . . . .	behind RH footwell trim panel . . . . .	86 . . . . .	173
Fuel Shut-Off Solenoid (K111) . . . . .	RH side of engine on injector pump . . . . .	19 . . . . .	54
Fusible Link (P119) . . . . .	RH front of engine compartment behind battery . . . . .	86 . . . . .	42
Generator (Z106) (300Tdi) . .	lower LH side of engine . . . . .	86 . . . . .	17
Generator (Z106) (MFI-T16 with Air Conditioning) . . . . .	LH front of engine . . . . .	86	

Component	Location	Manual	View
Generator (Z106) (MFI-T16 without Air Conditioning) . . . .	RH side of engine . . . . .	86 . . . . .	65
Generator (Z106) (MFI-V8) . .	top centre front of engine . . . . .	86 . . . . .	63
Generator Suppression Capacitor (Z182) (300Tdi) . . .	lower LH side of engine on Generator . . . . .	86 . . . . .	17
Generator Suppression Capacitor (Z182) (MFI-T16 with Air Conditioning) . . . . .	LH front of engine on Generator . . . . .	86	
Generator Suppression Capacitor (Z182) (MFI-T16 without Air Conditioning) . . . .	RH side of engine on Generator . . . . .	86 . . . . .	65
Generator Suppression Capacitor (Z182) (MFI-V8) . .	top centre front of engine on Generator . . . . .	86 . . . . .	63
Glow Plug Timer Unit (Z135) .	RH side of engine compartment . . . . .	19 . . . . .	45
Glow Plugs (P120) . . . . .	RH side of engine . . . . .	19 . . . . .	58
Handbrake Switch (X191) . . .	beneath centre console on handbrake lever . . . . .	86 . . . . .	128
Hazard Switch (X220) . . . . .	centre of fascia . . . . .	86 . . . . .	115
Headlamp Level Switch (X130) . . . . .	top RH side of fascia right of steering column . . . . .	86	
Headlamp Wash Pump (M110) . . . . .	LH rear corner of engine compartment on wash fluid reservoir . . . . .	86 . . . . .	2
Heated Front Screen Fuse Block (P114) (Except Japan) .	behind LH side of fascia . . . . .	86 . . . . .	96
Heated Front Screen Fuse Block (P114) (Japan) . . . . .	behind LH side of fascia . . . . .	86 . . . . .	236
Heated Front Screen In-Line Maxi-Fuse (P119) . . . . .	RH side of engine compartment . . . . .	86 . . . . .	228
Heated Front Screen Relay (K121) (Except Japan) . . . . .	behind LH side of fascia . . . . .	86 . . . . .	96
Heated Front Screen Relay (K121) (Japan) . . . . .	behind LH side of fascia . . . . .	86 . . . . .	236
Heated Front Screen Switch (X131) . . . . .	centre of fascia . . . . .	86 . . . . .	238
Heated Rear Screen Relay (K122) . . . . .	behind RH side of fascia on Fascia Fuse Box . . . . .	86 . . . . .	161
Heated Rear Screen Switch (X132) . . . . .	top RH side of fascia near Instrument Cluster . . . . .	86 . . . . .	147
Horn Relay (K189) . . . . .	behind LH footwell trim panel . . . . .	86 . . . . .	93
Horn Switches (X258) . . . . .	in steering wheel . . . . .	86 . . . . .	142
Idle Air Control Valve (M112) (MFI-T16) . . . . .	RH front of engine . . . . .	19 . . . . .	49
Idle Air Control Valve (M112) (MFI-V8) . . . . .	top rear of engine . . . . .	19 . . . . .	64
Ignition Coil (Z140) (MFI-V8)	LH front of engine compartment . . . . .	86 . . . . .	29
Ignition Coil 1 (Z217) (MFI-T16) . . . . .	top rear of engine . . . . .	86	
Ignition Coil 2 (Z218) (MFI-T16) . . . . .	top rear of engine . . . . .	86	
Ignition Coil Noise Suppressor (Z237) . . . . .	LH front corner of engine compartment on Ignition Coil . . . . .	86 . . . . .	31

Component	Location	Manual	View
Ignition Control Module (Z139)	LH front of engine compartment near Ignition Coil	86	31
Ignition Key Lock Solenoid (K191)	top of steering column	86	146
Ignition Load Relay (K127)	behind RH footwell trim panel	86	168
Ignition Switch (X134)	top of steering column	86	144
Inertia Fuel Shut-Off Switch (X135)	LH rear corner of engine compartment	19	1
Injector Needle Lift Sensor (X256)	RH rear of engine	19	69
Instrument Cluster (Z142)	top RH side of fascia	86	154
Instrument Illumination Rheostat (Z143)	top RH side of fascia near Instrument Cluster	86	
Intake Air Temperature Sensor (X248)	RH rear of engine	19	
Interlock Diode 1 (Z189)	Main Wire Harness near Cruise Control ECU	86	
Interlock Diode 2 (Z190)	Main Wire Harness near Cruise Control ECU	86	
Interlock Relay 1 (K153)	behind LH side of fascia above glove box	86	237
Interlock Relay 2 (K151)	behind LH side of fascia above glove box	86	237
Key-Barrel Switch (X230)	top of steering column on Ignition Switch	86	145
Key-In Switch (X229) (With Shift Interlock)	top of steering column on Ignition Switch	86	145
Key-In Switch (X229) (Without Shift Interlock)	top of steering column on Ignition Switch	86	144
Knock Sensor (X249)	RH side of engine	19	50
Left Antenna Amplifier (Z177)	LH rear of roof behind trim panel	86	242
Left Condenser Fan Motor (M113)	behind front grille	86	34
Left Front Door Lock Actuator (M114)	in rear of LH front door	76	182
Left Front Door Switch (X150)	front of LH front door jamb	86	178
Left Front Indicator Lamp (B153)	LH front of vehicle	86	27
Left Front Seat Control Switch (X152)	LH side of centre console	86	129
Left Front Side Lamp (B166)	LH front of vehicle	86	37
Left Front Wheel Speed Sensor (X137)	behind LH front wheel	70	82
Left Front Window Motor (M130)	in front of LH front door	86	183
Left Front Window Switch (X122)	in rear of centre console	86	124
Left Headlamp (B116)	LH front of vehicle	86	36
Left Headlamp Level Unit (Z145)	behind LH headlamp	86	28
Left Heated Oxygen Sensor (X139) (MFI-T16)	lower LH side of engine compartment	19	9
Left Heated Oxygen Sensor (X139) (MFI-V8)	lower LH rear of engine compartment	19	81
Left Horn (K128)	behind LH side of front grille	86	33

Component	Location	Manual	View
Left Mirror Actuator (M115) ..	top front of LH front door .....	76 .....	181
Left Rear Door Lock Actuator (M117) .....	inside front of LH rear door .....	76 .....	187
Left Rear Door Switch (X142)	in lower part of LH B-post .....	86 .....	186
Left Rear Indicator Lamp (B163) .....	LH side of rear bumper .....	86 .....	222
Left Rear Lamp Assembly (B121) .....	LH rear of luggage compartment .....	86 .....	204
Left Rear Side Marker Lamp (B159) .....	LH side of rear bumper .....	86 .....	223
Left Rear Wheel Speed Sensor (X140) .....	behind LH rear wheel .....	70 .....	83
Left Rear Window Console Switch (X141) .....	in rear of centre console .....	86 .....	125
Left Rear Window Door Switch (X188) .....	inside front of LH rear door .....	86 .....	188
Left Rear Window Motor (M116) .....	inside front of LH rear door .....	86 .....	189
Left Repeater Lamp (B122) ..	LH front side of vehicle .....	86 .....	26
Left Seat Heat Relay (K129) ..	beneath LH front seat .....	86 .....	194
Left Seat Heat Switch (X143)	in rear of centre console .....	86 .....	239
Left Seat Power Relay (K113)	beneath LH front seat .....	86 .....	190
Left Seat Power Relay Diode (Z223) .....	beneath centre console .....	86	
Left Tail Lamp (B155) .....	LH side of rear bumper .....	86 .....	222
Left Vanity Mirror Lamp (B186) .....	LH front of roof .....	86 .....	180
Main Lighting Switch (X145) ..	top of steering column .....	86 .....	143
Main Rear A/C Switch (X239)	centre of fascia .....	82 .....	121
Mass Air Flow Sensor (X105) (300Tdi with EDC) .....	LH side of engine compartment on air intake assembly .....	19 .....	11
Mass Air Flow Sensor (X105) (MFI-V8) .....	LH side of engine compartment on air intake assembly .....	19 .....	10
Mirror Adjustment Switch (X146a) .....	top RH side of fascia right of steering column .....	86 .....	149
Multi-Function Relay Unit (Z207) .....	behind RH side of fascia .....	19 .....	170
Multi-Function Unit (MFU) (Z148) .....	behind RH side of fascia on Fascia Fuse Box .....	86 .....	163
Multipoint Fuel Injection Ignition Resistor 1 (K115) ....	LH front of engine compartment near Ignition Coil ..	86 .....	29
Multipoint Fuel Injection Ignition Resistor 2 (K168) ....	LH front of engine compartment near Ignition Coil ..	86 .....	29
Neutral Sense Diode (Z273) ..	Main Wire Harness behind LH side of fascia near HJ2 .....	86 .....	110
Neutral Sense Resistor (K166) .....	Gearbox Wire Harness near C105 .....	86	
Oil Pressure Switch (X149) (300Tdi with EDC) .....	lower RH side of engine .....	86 .....	59
Oil Pressure Switch (X149) (300Tdi with EGR) .....	lower RH side of engine .....	86 .....	55

<b>Component</b>	<b>Location</b>	<b>Manual</b>	<b>View</b>
Oil Pressure Switch (X149) (300Tdi without EGR) . . . . .	lower RH side of engine . . . . .	86 . . . . .	54
Oil Pressure Switch (X149) (MFI-T16) . . . . .	lower RH side of engine near oil filter . . . . .	86 . . . . .	40
Oil Pressure Switch (X149) (MFI-V8) . . . . .	lower RH side of engine near oil filter . . . . .	86 . . . . .	39
Park/Neutral Position Switch (X167) . . . . .	LH side of transmission . . . . .	86 . . . . .	85
Passenger's Rear A/C Switch (X240) . . . . .	centre of roof . . . . .	82 . . . . .	196
Passenger's Rear Fan Speed Switch (X246) . . . . .	centre of roof . . . . .	82 . . . . .	196
Passenger's Rear Sunroof Switch (X264) . . . . .	centre of roof . . . . .	76 . . . . .	198
Passenger's Underseat Fuse Box (P116) . . . . .	beneath LH front seat . . . . .	86 . . . . .	191
Passive Immobilisation Coil (Z270) . . . . .	top of steering column on Ignition Switch . . . . .	86 . . . . .	153
Phase Tap Resistor (K184) (300Tdi) . . . . .	lower LH side of engine on Generator . . . . .	86 . . . . .	17
Phase Tap Resistor (K184) (MFI-T16 with Air Conditioning) . . . . .	LH front of engine on Generator . . . . .	86	
Phase Tap Resistor (K184) (MFI-T16 without Air Conditioning) . . . . .	RH side of engine on Generator . . . . .	86 . . . . .	65
Phase Tap Resistor (K184) (MFI-V8) . . . . .	top centre front of engine on Generator . . . . .	86 . . . . .	63
Power Amplifier Relay (K187)	behind LH side of fascia above glove box . . . . .	86 . . . . .	237
Power Wash Relay (K182) (Automatic Transmission) . . . . .	behind LH side of fascia on bracket . . . . .	86 . . . . .	103
Power Wash Relay (K182) (Manual Transmission) . . . . .	behind LH side of fascia on bracket . . . . .	86 . . . . .	231
Radio (Z111) (High Line Radio) . . . . .	centre of fascia . . . . .	86 . . . . .	118
Radio (Z111) (Low Line Radio) (Mid Line Radio) . . . . .	centre of fascia . . . . .	86 . . . . .	117
Radio Amplifier (Z175) . . . . .	behind LH side of fascia . . . . .	86 . . . . .	235
Radio Tune Resistor (Z235) . . . . .	Fascia Wire Harness behind instrument cluster near Rear Screen Wipe Switch . . . . .	86 . . . . .	156
Radio Tune Switch (X233) . . . . .	top RH side of fascia near Instrument Cluster . . . . .	86 . . . . .	150
Radio Volume Down Switch (X236) . . . . .	top RH side of fascia near Instrument Cluster . . . . .	86 . . . . .	148
Radio Volume Resistor (Z234) . . . . .	Fascia Wire Harness behind instrument cluster near Heated Rear Screen Switch . . . . .	86 . . . . .	155
Radio Volume Up Switch (X235) . . . . .	top RH side of fascia near Instrument Cluster . . . . .	86 . . . . .	148
Radio Waveband Resistor (Z236) . . . . .	Fascia Wire Harness behind instrument cluster near Rear Screen Wipe Switch . . . . .	86 . . . . .	156
Radio Waveband Switch (X234) . . . . .	top RH side of fascia near Instrument Cluster . . . . .	86 . . . . .	150

Component	Location	Manual	View
Rear A/C Control Relay (K194)	LH side of luggage compartment on rear A/C evaporator	82	201
Rear A/C Evaporator Temperature Switch (X260)	LH side of luggage compartment on rear A/C evaporator	82	202
Rear A/C Fan Speed Relay (K205)	LH side of luggage compartment on rear A/C evaporator	82	203
Rear A/C Illumination Relay (K204)	LH side of luggage compartment on rear A/C evaporator	82	202
Rear A/C Refrigerant Control Valve (K207)	LH side of luggage compartment on rear A/C evaporator	82	236
Rear A/C Refrigerant Control Valve Diode (Z228)	LH rear of luggage compartment near C448	82	240
Rear A/C Relay Diode (Z275)	LH rear of luggage compartment near C448	82	205
Rear A/C Switch Amplifier (Z216)	LH side of luggage compartment on rear A/C evaporator	82	200
Rear A/C Switch Amplifier In-Line Fuse (P140)	LH rear of luggage compartment behind trim panel	82	204
Rear Blower Motor (M145)	LH side of luggage compartment on rear A/C evaporator	82	200
Rear Blower Motor Relay (K193)	LH side of luggage compartment on rear A/C evaporator	82	203
Rear Blower Resistor Unit (Z215)	LH side of luggage compartment on rear A/C evaporator	82	
Rear End Door Switch (X265)	in RH side of tailgate door jamb	86	211
Rear Fog Guard Lamps Switch (X154)	top RH side of fascia near Instrument Cluster	86	147
Rear Fog Lamps Relay (K231) (Automatic Transmission)	behind LH side of fascia on bracket	86	104
Rear Fog Lamps Relay (K231) (Manual Transmission)	behind LH side of fascia on bracket	86	230
Rear Interior Roof Lamp (B124)	centre of roof	86	197
Rear Screen Wash Pump (M119)	LH rear corner of engine compartment on wash fluid reservoir	86	2
Rear Screen Wash Switch (X222)	top RH side of fascia near Instrument Cluster	86	149
Rear Screen Wipe Switch (X221)	top RH side of fascia near Instrument Cluster	86	149
Rear Sunroof Lockout Switch (X263)	front centre of roof	76	133
Rear Sunroof Motor (M144)	centre of roof	76	199
Rear Sunroof Switch (X262)	front centre of roof	76	132
Rear Window Isolation Switch (X187)	in rear of centre console	86	125
Rear Wiper Motor (M120)	RH side of tailgate	84	213
Rear Wiper Relay (K183)	behind LH footwell trim panel	86	94
Reverse Switch (X157)	LH side of transmission	86	87
Right Antenna Amplifier (Z178)	RH rear of roof behind trim panel	86	242

<b>Component</b>	<b>Location</b>	<b>Manual</b>	<b>View</b>
Right Condenser Fan Motor (M121)	behind front grille	82	35
Right Front Door Key Switch (X202)	in top rear of RH front door at door handle	86	185
Right Front Door Lock Actuator (M122)	in rear of RH front door	76	184
Right Front Door Switch (X118)	front of RH front door jamb	86	178
Right Front Indicator Lamp (B154)	RH front of vehicle	86	27
Right Front Seat Control Switch (X121)	RH side of centre console	86	130
Right Front Side Lamp (B167)	RH front of vehicle	86	37
Right Front Wheel Speed Sensor (X158)	behind RH front wheel	70	82
Right Front Window Motor (M133)	in front of RH front door	86	183
Right Front Window Switch (X151)	in rear of centre console	86	124
Right Headlamp (B130)	RH front of vehicle	86	36
Right Headlamp Level Unit (Z155)	behind RH headlamp	86	28
Right Heated Oxygen Sensor (X160)	lower RH rear of engine compartment	19	73
Right Horn (K134)	behind RH side of front grille	86	33
Right Mirror Actuator (M123)	top front of RH front door	86	181
Right Rear Door Lock Actuator (M125)	inside front of RH rear door	76	187
Right Rear Door Switch (X163)	in lower part of RH B-post	86	186
Right Rear Indicator Lamp (B165)	RH side of rear bumper	86	224
Right Rear Lamp Assembly (B136)	RH rear of luggage compartment	86	209
Right Rear Side Marker Lamp (B160)	RH side of rear bumper	86	223
Right Rear Wheel Speed Sensor (X161)	behind RH rear wheel	70	83
Right Rear Window Console Switch (X162)	in rear of centre console	86	125
Right Rear Window Door Switch (X189)	inside front of RH rear door	86	188
Right Rear Window Motor (M124)	inside front of RH rear door	86	189
Right Repeater Lamp (B137)	RH front side of vehicle	86	26
Right Seat Heat Relay (K135)	beneath LH front seat	86	194
Right Seat Heat Switch (X164)	in rear of centre console	86	239
Right Seat Power Relay (K131)	beneath LH front seat	86	190

Component	Location	Manual	View
Right Seat Power Relay Diode (Z222)	beneath centre console	86	
Right Tail Lamp (B156)	RH side of rear bumper	86	224
Right Vanity Mirror Lamp (B187)	RH front of roof	86	180
Rotary Coupler (Z119)	top of steering column	76	144
Satellite Fuse Box 1 (P127)	behind RH side of fascia on Fascia Fuse Box	86	160
Satellite Fuse Box 2 (P128)	behind RH side of fascia on Fascia Fuse Box	86	160
Saudi Junction Connector (X241)	behind RH side of fascia near Fascia Fuse Box	86	165
Seat Base Motor (M126)	underside of respective front seat	86	193
Seat Height (Front) Motor (M127)	underside of respective front seat	86	192
Seat Height (Rear) Motor (M128)	underside of respective front seat	86	193
Seat Recline Motor (M129)	underside of respective front seat	86	192
Sounder Relay (K160)	behind LH footwell trim panel	86	94
Speed Trip Module (Z164) (Manual Transmission)	behind LH side of fascia on bracket	19	234
Starter (M134) (300Tdi with EDC)	lower LH side of engine	86	8
Starter (M134) (300Tdi without EDC)	lower LH side of engine	86	7
Starter (M134) (MFI-T16)	lower RH side of engine	86	71
Starter (M134) (MFI-V8)	lower RH side of engine	86	70
Starter Relay Diode (Z158)	Main Wire Harness near Starter Solenoid Relay	86	171
Starter Solenoid (K136) (300Tdi with EDC)	lower LH side of engine	86	8
Starter Solenoid (K136) (300Tdi without EDC)	lower LH side of engine	86	7
Starter Solenoid (K136) (MFI-T16)	lower RH side of engine	86	71
Starter Solenoid (K136) (MFI-V8)	lower RH side of engine	86	70
Starter Solenoid Relay (K137)	behind RH footwell trim panel	86	168
Steering Wheel Cruise Switches (X266)	in steering wheel	19	142
Stop Lamp Switch (X168)	behind RH side of fascia on brake pedal support	86	159
Stop Lamp Switch Suppressor (Z206)	behind RH side of fascia near steering column	86	159
Subwoofer (K146)	LH side of tailgate	86	216
Subwoofer Amplifier (Z176)	LH side of tailgate on Subwoofer	86	216
Sunroof Control Unit (Z162)	front centre of roof	76	134
Tailgate Diode (Z277)	behind LH side of fascia right of steering column	86	102
Tailgate Lock Actuator (M132)	LH side of tailgate	76	214
Theft Alarm Unit (Z163)	behind LH side of fascia on bracket	86	102
Throttle Position Sensor (X257) (300Tdi with EDC)	behind RH side of fascia	19	141



Component	Location	Manual	View
Throttle Position Sensor (X171) (300Tdi with EGR) . . .	RH side of engine on injector pump . . . . .	19 . . . . .	55
Throttle Position Sensor (X171) (MFI-T16) . . . . .	RH front of engine . . . . .	19 . . . . .	49
Throttle Position Sensor (X171) (MFI-V8) . . . . .	top LH front of engine . . . . .	19 . . . . .	14
Trailer Auxiliary Socket (X172) . . . . .	RH rear of luggage compartment behind trim panel .	86 . . . . .	225
Transfer Box Oil Temperature Switch (X174) . . . . .	LH side of transfer box . . . . .	86 . . . . .	88
Transfer Box Position Switch (X175) . . . . .	top RH side of transfer box . . . . .	86 . . . . .	91
Transfer Box Solenoid (K161)	top RH side of transfer box . . . . .	86 . . . . .	91
Transfer Box Solenoid Diode (Z232) . . . . .	Gearbox Wire Harness near Differential Lock Switch	86	
Transmission Range Selector Switch (Z110) . . . . .	beneath centre console near transmission range selector . . . . .	86 . . . . .	123
Tune Select Resistor (K140) .	behind RH side of fascia . . . . .	19 . . . . .	140
Vehicle Speed Sensor (X190)	LH side of transfer box . . . . .	86 . . . . .	89
Window Lift ECU (Z147) . . . .	behind LH side of fascia on bracket . . . . .	86 . . . . .	101
<b>Connector</b>	<b>Location</b>		<b>View</b>
C100 (3-W) . . . . .	RH front of engine compartment on Engine Compartment Fuse Box . . .		46
C101 (4-W) . . . . .	RH front of engine compartment on Engine Compartment Fuse Box . . .		46
C103 (3-B) . . . . .	RH front of engine compartment on Right Headlamp . . . . .		36
C104 (3-B) . . . . .	LH front of engine compartment on Left Headlamp . . . . .		36
C105 (13-B) . . . . .	LH rear corner of engine compartment . . . . .		1
C109 (2-B) . . . . .	LH front of engine compartment on Left Front Side Lamp . . . . .		37
C110 (2-B) . . . . .	RH front of engine compartment on Right Front Side Lamp . . . . .		37
C112 (3-W) (MFI-V8) . . . . .	LH rear corner of engine to Left Heated Oxygen Sensor . . . . .		81
C112 (4-B) (MFI-T16) . . . . .	lower LH side of engine to Left Heated Oxygen Sensor . . . . .		9
C113 (3-W) . . . . .	RH rear corner of engine to Right Heated Oxygen Sensor . . . . .		64
C114 (2-W) . . . . .	RH front of engine compartment on Engine Compartment Fuse Box . . .		46
C115 (3-W) . . . . .	RH front of engine compartment on Engine Compartment Fuse Box . . .		46
C116 (1-W) . . . . .	RH front of engine compartment on Engine Compartment Fuse Box . . .		46
C118 (1-W) . . . . .	RH front of engine compartment . . . . .		228
C120 (2-W) . . . . .	LH rear corner of engine compartment on Rear Screen Wash Pump . . . .		2
C121 (2-B) . . . . .	LH rear corner of engine compartment to Heated Front Screen . . . . .		226
C122 (2-B) . . . . .	RH rear corner of engine compartment to Heated Front Screen . . . . .		229
C123 (2-B) . . . . .	RH front side of vehicle on Right Repeater Lamp . . . . .		26
C124 (2-B) . . . . .	LH front side of vehicle on Left Repeater Lamp . . . . .		26
C125 (2-B) . . . . .	LH rear of engine compartment to A.B.S. Hydraulic Pump . . . . .		4
C127 (3-B) . . . . .	RH rear of engine compartment on Brake Fluid Level Switch . . . . .		79
C129 (13-B) . . . . .	LH rear of engine compartment on A.B.S. Booster Unit . . . . .		4
C130 (2-WB) . . . . .	LH rear of engine compartment to Left Front Wheel Speed Sensor . . . .		4
C131 (2-WB) . . . . .	RH side of engine compartment to Right Front Wheel Speed Sensor . . .		43
C132 (4-B) (MFI-V8) . . . . .	top rear of engine on Idle Air Control Valve . . . . .		64

Connector	Location	View
C132 (6-B) (MFI-T16)	RH front of engine on Idle Air Control Valve	49
C133 (5-B) (300Tdi with EDC)	LH side of engine compartment on Mass Air Flow Sensor	11
C133 (6-B) (MFI-V8)	LH side of engine compartment on Mass Air Flow Sensor	10
C134 (2-B) (MFI-V8)	top LH side of engine on Fuel Injectors	12
C134 (2-B) (MFI-T16)	top centre of engine on Fuel Injectors	19
C135 (2-B) (MFI-V8)	top RH side of engine on Fuel Injectors	61
C135 (2-B) (MFI-T16)	top centre of engine on Fuel Injectors	19
C136 (2-B) (MFI-V8)	top LH side of engine on Fuel Injectors	12
C136 (2-B) (MFI-T16)	top centre of engine on Fuel Injectors	19
C137 (2-B) (MFI-V8)	top RH side of engine on Fuel Injectors	61
C137 (2-B) (MFI-T16)	top centre of engine on Fuel Injectors	19
C138 (2-B) (MFI-V8)	top LH side of engine on Fuel Injectors	12
C139 (2-B) (MFI-V8)	top RH side of engine on Fuel Injectors	61
C140 (2-B) (MFI-V8)	top LH rear of engine on Fuel Injectors	5
C141 (2-B) (MFI-V8)	top RH side of engine on Fuel Injectors	64
C142 (2-N) (MFI-T16)	lower RH side of engine on Oil Pressure Switch	40
C144 (2-B) (MFI-V8)	RH side of engine compartment on Evaporative Emission Canister Purge Valve	74
C144 (2-B) (MFI-T16)	RH rear of engine compartment on Evaporative Emission Canister Purge Valve	75
C145 (2-W) (MFI-V8)	top RH side of engine to Compressor Clutch	48
C145 (2-W) (MFI-T16)	RH side of engine to Compressor Clutch	
C145 (2-W) (300Tdi with EDC)	RH side of engine to Compressor Clutch	57
C145 (2-W) (300Tdi without EDC)	RH side of engine to Compressor Clutch	56
C146 (2-B) (MFI-V8)	top centre front of engine on Condenser Fan Coolant Temperature Switch	62
C146 (2-B) (300Tdi with EDC)	RH front of engine on Condenser Fan Coolant Temperature Switch	51
C146 (2-B) (300Tdi without EDC)	RH front of engine on Condenser Fan Coolant Temperature Switch	53
C148 (2-B)	top centre front of engine to Distributor	18
C149 (3-B) (MFI-V8)	top LH front of engine to Throttle Position Sensor	14
C149 (3-B) (MFI-T16)	RH front of engine on Throttle Position Sensor	49
C150 (2-S) (MFI-V8)	top LH front of engine on Engine Fuel Temperature Sensor	13
C150 (2-S) (MFI-T16)	RH side of engine on Engine Fuel Temperature Sensor	50
C152 (2-N) (MFI-V8)	top LH front of engine on Engine Coolant Temperature Sensor	13
C152 (2-N) (MFI-T16)	top LH front of engine on Engine Coolant Temperature Sensor	15
C152 (2-N) (300Tdi with EDC)	top centre of engine on Engine Coolant Temperature Sensor	21
C152 (2-N) (300Tdi without EDC)	top centre of engine on Engine Coolant Temperature Sensor	20
C153 (1-B)	LH front of engine compartment on Ignition Coil	30
C154 (1-W)	LH front of engine compartment on Ignition Coil	30
C155 (1-B)	LH front of engine compartment on Ignition Coil	30
C156 (1-W)	LH front of engine compartment on Ignition Coil	30

Connector	Location	View
C159 (6-B)	RH side of engine compartment on Glow Plug Timer Unit	45
C160 (3-B)	RH side of engine to Throttle Position Sensor	66
C161 (1-W) (300Tdi without EGR)	RH side of engine to Fuel Shut-Off Solenoid	54
C162 (2-B)	RH front of engine on Compressor Clutch Cut-out Switch	52
C164 (3-B)	LH side of engine on EGR Valve Position Sensor	7
C165 (2-B) (300Tdi without EDC)	LH front of engine compartment on EGR Control Solenoid	24
C165 (2-S) (300Tdi with EDC)	LH front of engine compartment on EGR Control Solenoid	24
C166 (2-B)	lower LH front of engine compartment on Automatic Transmission Oil Temperature Switch	25
C167 (3-W)	LH front corner of engine compartment on Cruise Control Vacuum Pump	22
C168 (2-B)	behind LH side of front grille on Left Horn	33
C169 (2-B)	behind RH side of front grille on Right Horn	33
C170 (2-R)	LH rear corner of engine compartment on Front Screen Wash Pump	2
C171 (3-B)	LH rear corner of engine compartment on Inertia Fuel Shut-Off Switch	1
C173 (2-B)	LH rear corner of engine compartment on Headlamp Wash Pump	2
C177 (2-B)	LH rear of engine compartment to Dim/Dip Resistor	3
C178 (2-B)	LH side of engine compartment to Alarm Bonnet Switch	227
C181 (2-S)	RH rear of engine compartment on A/C Dual Pressure Switch	77
C182 (2-B)	behind front grille to Right Condenser Fan Motor	35
C183 (2-B)	behind front grille to Left Condenser Fan Motor	34
C190 (3-B)	behind LH headlamp on Left Headlamp Level Unit	28
C191 (3-B)	behind RH headlamp on Right Headlamp Level Unit	28
C195 (4-W)	RH rear of engine compartment	78
C196 (2-NU)	RH rear of engine to Injector Needle Lift Sensor	69
C197 (3-B)	RH rear of engine to Engine Speed Sensor	69
C198 (3-W) (300Tdi with EDC)	RH side of engine to Fuel Injector Assembly	60
C198 (6-B) (MFI-T16)	top rear of engine to Fuel Injectors	68
C199 (8-W)	RH side of engine to Fuel Pump Assembly	59
C1000 (2-G) (MFI-T16)	RH rear of engine on Intake Air Temperature Sensor	
C1000 (2-G) (300Tdi with EDC)	top rear of engine on Boost Pressure Air Temperature Sensor	21
C1001 (3-B)	LH rear of engine compartment on Boost Pressure Sensor	11
C1002 (3-B)	top rear of engine on Ignition Coil 1	
C1003 (3-B)	top rear of engine on Ignition Coil 2	
C1004 (2-U)	lower RH rear of engine to Crankshaft Position Sensor	72
C1005 (2-W)	RH side of engine on Knock Sensor	50
C1006 (3-W)	RH rear corner of engine compartment Data Link Connector (MFI)	75
C1007 (36-B)	RH rear corner of engine compartment on Engine Control Module (ECM)	76
C1008 (18-B)	RH rear corner of engine compartment on Engine Control Module (ECM)	76
C1009 (2-B)	LH front of vehicle on Left Front Indicator Lamp	27

Connector	Location	View
C1010 (2-B)	RH front of vehicle on Right Front Indicator Lamp	27
C1011 (2-W) (MFI-T16 with Air Conditioning)	front of engine compartment to Cooling Fan Motor 1	
C1011 (2-W) (MFI-T16 without Air Conditioning)	front of engine compartment to Cooling Fan Motor 1	32
C1012 (2-W)	front of engine compartment to Cooling Fan Motor 2	
C1018 (1-W)	LH front of engine compartment on Ignition Coil	30
C1024 (2-B)	LH front of engine compartment to Left Front Fog Lamp	36
C1025 (2-B)	RH front of engine compartment to Right Front Fog Lamp	36
C1031 (4-N)	RH front of engine compartment on Battery Backed Up Alarm Sounder	47
C1035 (3-B)	LH front of engine compartment on Ignition Control Module	31
C1036 (3-B)	LH front of engine compartment to Ignition Control Module	31
C1040 (3-B) (300Tdi with EGR)	RH side of engine to Diesel Immobilisation Unit (DDS)	67
C201 (7-W)	top of steering column on Main Lighting Switch	143
C203 (7-W)	behind RH side of fascia on Fascia Fuse Box	163
C204 (24-W)	behind RH side of fascia on Fascia Fuse Box	164
C205 (24-B)	behind RH side of fascia on Multi-Function Unit (MFU)	163
C206 (4-W)	behind RH side of fascia on Fascia Fuse Box	165
C207 (10-B)	on Instrument Cluster	154
C208 (18-W)	behind RH side of fascia on Fascia Fuse Box	162
C209 (20-R)	behind RH side of fascia left of steering column	136
C211 (10-W)	behind RH side of fascia on Fascia Fuse Box	164
C212 (14-W)	behind LH side of fascia	97
C214 (3-BU)	top RH side of fascia to Instrument Illumination Rheostat	
C215 (24-Y)	behind RH side of fascia left of steering column	136
C216 (7-N)	behind RH side of fascia right of heater evaporator unit	139
C217 (24-W)	behind RH side of fascia right of heater evaporator unit	139
C218 (8-W) (Automatic Transmission)	behind LH side of fascia on bracket	107
C218 (8-W) (Manual Transmission)	behind LH side of fascia on bracket	233
C219 (4-W)	behind RH side of fascia on Fascia Fuse Box	162
C220 (3-N)	behind RH side of fascia to Ignition Switch	158
C221 (10-W)	on Instrument Cluster	156
C222 (10-W)	on Instrument Cluster	154
C223 (5-U)	on Instrument Cluster	154
C224 (6-W)	behind RH side of fascia to Front Wiper Motor	138
C225 (26-S) (Japan)	behind LH side of fascia on Central Locking Control Unit	102
C225 (26-S) (Except Japan)	behind LH side of fascia on Theft Alarm Unit	102
C226 (3-W)	behind RH side of fascia on Fascia Fuse Box	165
C227 (4-B)	behind RH side of fascia on Stop Lamp Switch	159
C228 (8-B)	behind RH side of fascia on Mirror Adjustment Switch	149
C229 (1-W)	behind RH side of fascia on Fascia Fuse Box	163
C230 (8-S) (Low Line Radio) (Mid Line Radio)	centre of fascia on Radio	117

Connector	Location	View
C230 (8-S) (High Line Radio)	centre of fascia on Radio	118
C232 (2-S)	RH A-post to Right Front Tweeter	179
C238 (5-Y) (MFI-T16)	behind RH footwell trim panel on Cooling Fan Relay	171
C238 (9-B) (MFI-V8)	behind RH footwell trim panel on Fan Control Module	174
C239 (5-B) (MFI-V8)	behind RH footwell trim panel on Engine Control Load Relay	173
C239 (5-Y) (300Tdi with EDC)	behind RH footwell trim panel on Engine Control Load Relay	176
C240 (5-U)	behind RH footwell trim panel on Fuel Pump Relay	173
C241 (5-Y) (MFI-V8) (MFI-T16) (300Tdi without EDC)	behind RH footwell trim panel on Compressor Clutch Relay	174
C241 (5-Y) (300Tdi with EDC)	behind RH footwell trim panel on Compressor Clutch Relay	177
C242 (5-Y)	behind RH footwell trim panel on A/C Logic Relay	175
C243 (40-B) (MFI-V8)	behind RH side of fascia on Engine Control Module (ECM)	169
C243 (55-B) (300Tdi with EDC)	behind RH side of fascia on Engine Control Module (ECM)	176
C245 (5-W)	behind RH side of fascia Data Link Connector (MFI)	169
C246 (2-U)	behind RH side of fascia on Tune Select Resistor	140
C247 (16-B)	behind RH side of fascia on EGR Valve Control Module	172
C248 (3-W)	behind RH side of fascia Data Link Connector (EGR)	172
C249 (5-G)	top RH side of fascia on Rear Screen Wash Switch	149
C250 (5-W)	top RH side of fascia on Rear Screen Wipe Switch	149
C252 (6-R)	behind RH side of fascia near steering column	136
C254 (1-W)	behind RH side of fascia on Fascia Fuse Box	162
C255 (1-B)	on Instrument Cluster	154
C259 (6-W)	behind RH side of fascia on Headlamp Level Switch	161
C260 (10-R)	centre of fascia on Radio	117
C262 (5-U)	centre of fascia on Cruise Control Switch	116
C263 (5-B)	top RH side of fascia on Rear Fog Guard Lamps Switch	147
C264 (5-U)	top RH side of fascia on Heated Rear Screen Switch	147
C265 (5-B)	centre of fascia on Heated Front Screen Switch	238
C267 (10-W)	centre of fascia on Hazard Switch	115
C268 (8-N) (Low Line Radio) (Mid Line Radio)	centre of fascia on Radio	117
C268 (8-N) (High Line Radio)	centre of fascia on Radio	118
C270 (4-B)	centre of fascia on Clock	115
C274 (12-W) (Japan)	behind LH side of fascia on Central Locking Control Unit	102
C274 (12-W) (Except Japan)	behind LH side of fascia on Theft Alarm Unit	102
C277 (23-W)	behind LH side of fascia	97
C280 (5-W)	behind LH footwell trim panel on Sounder Relay	94
C281 (5-G)	behind LH footwell trim panel on Rear Wiper Relay	94
C282 (5-Y)	behind LH footwell trim panel on Accessory Relay	93
C283 (5-Y)	behind LH footwell trim panel on Horn Relay	93
C284 (15-B)	behind LH side of fascia on Cruise Control ECU	99
C285 (4-W)	behind LH side of fascia	95
C286 (4-W)	behind LH side of fascia	95

Connector	Location	View
C287 (10-W)	behind LH side of fascia on Window Lift ECU	101
C288 (8-W)	behind LH side of fascia on Window Lift ECU	101
C292 (5-Y) (Automatic Transmission)	behind LH side of fascia on Condenser Fan Relay	103
C292 (5-Y) (Manual Transmission)	behind LH side of fascia on Condenser Fan Relay	231
C293 (5-U) (Automatic Transmission)	behind LH side of fascia on Dim/Dip Relay 1	104
C293 (5-U) (Manual Transmission)	behind LH side of fascia on Dim/Dip Relay 1	230
C294 (4-W) (Except Japan)	behind LH side of fascia on Heated Front Screen Relay	96
C294 (4-W) (Japan)	behind LH side of fascia on Heated Front Screen Relay	236
C298 (3-W)	behind LH side of fascia	109
C299 (5-Y) (Except Japan)	behind LH side of fascia on Catalyst Warning Relay	
C299 (5-Y) (Japan)	behind LH side of fascia on Catalyst Warning Relay	236
C2000 (5-Y)	behind LH side of fascia on Interlock Relay 1	237
C2001 (5-Y)	behind LH side of fascia on Interlock Relay 2	237
C2005 (2-W)	behind RH side of fascia on Brake Switch Vent Valve	158
C2006 (5-Y)	behind RH footwell trim panel on Starter Solenoid Relay	168
C2007 (5-Y)	behind RH footwell trim panel on Ignition Load Relay	168
C2008 (5-G)	behind RH footwell trim panel on Front Wiper Relay	167
C2009 (4-W)	top of steering column on Direction Indicator Switch	143
C2010 (6-W)	top of steering column to Rotary Coupler	144
C2011 (6-W)	top of steering column on Front Wipe/Wash Switch	152
C2012 (8-W)	top of steering column	145
C2013 (4-B)	top of steering column	151
C2014 (2-B)	top of steering column on Ignition Key Lock Solenoid	146
C2015 (8-W)	top of steering column on Front Wipe/Wash Switch	152
C2016 (1-W)	behind RH side of fascia on Fascia Fuse Box	162
C2021 (5-B) (Manual Transmission)	behind LH side of fascia on Speed Trip Module	234
C2021 (5-G) (Automatic Transmission)	behind LH side of fascia on Cruise Control Lockout Relay	107
C2022 (5-W)	behind heater and A/C control panel on Front Fan Speed Switch	120
C2023 (4-W)	behind heater and A/C control panel	120
C2024 (5-U)	behind heater and A/C control panel on Main Rear A/C Switch	121
C2025 (5-W)	behind heater and A/C control panel on Front A/C Switch	120
C2026 (5-B)	behind heater and A/C control panel on Air Supply Selector Switch	121
C2027 (5-W)	behind LH side of fascia LH side of heater evaporator unit	112
C2028 (6-W)	behind RH footwell trim panel on E200	167
C2029 (6-W)	behind LH footwell trim panel on E201	92
C2035 (2-W)	behind RH side of fascia on Clutch Pedal Position Switch	157
C2036 (7-BW)	in steering wheel to Rotary Coupler	142
C2051 (8-B)	behind RH side of fascia on Multi-Function Relay Unit	170
C2052 (6-B)	behind RH side of fascia on Multi-Function Relay Unit	170
C2053 (5-Y)	behind LH side of fascia on Power Amplifier Relay	237
C2054 (18-W)	behind LH side of fascia on Radio Amplifier	235

Connector	Location	View
C2055 (13-W)	behind RH side of fascia left of steering column	136
C2056 (5-B)	top RH side of fascia on Radio Tune Switch	150
C2057 (5-U)	top RH side of fascia on Radio Waveband Switch	150
C2058 (5-W)	top RH side of fascia on Radio Volume Up Switch	148
C2059 (5-G)	top RH side of fascia on Radio Volume Down Switch	148
C2060 (5-W)	centre of fascia to Radio	117
C2061 (7-B)	centre of fascia on Radio	118
C2062 (1-B)	behind RH side of fascia Saudi Junction Connector	165
C2063 (2-B)	behind RH side of fascia to Stop Lamp Switch Suppressor	159
C2064 (2-W)	behind LH side of fascia	
C2065 (2-W)	behind LH side of fascia on Catalyst Warning ECU	
C2066 (8-W)	behind LH side of fascia LH side of heater evaporator unit	111
C2067 (10-W)	behind LH side of fascia LH side of heater evaporator unit	112
C2068 (5-W)	behind LH side of fascia on Front Blower Motor Relay	108
C2069 (2-B)	behind LH side of fascia on Front Blower Motor	109
C2070 (4-B)	behind LH side of fascia on Front Blower Resistor Unit	113
C2071 (2-B)	behind LH side of fascia on Air Recirculation Solenoid In-Line Fuse	108
C2072 (4-Y)	behind LH side of fascia on Air Recirculation Solenoid	100
C2073 (10-W)	behind RH side of fascia right of heater evaporator unit	139
C2074 (5-Y) (Automatic Transmission)	behind LH side of fascia on Power Wash Relay	103
C2074 (5-Y) (Manual Transmission)	behind LH side of fascia on Power Wash Relay	231
C2079 (2-B)	centre of fascia on Radio	117
C2080 (-B)	centre of fascia on Radio	118
C2082 (6-W)	behind LH side of fascia	97
C2083 (16-S)	behind RH side of fascia Data Link Connector (OBDII)	135
C2084 (35-B)	behind LH side of fascia on Anti-Lock Brake System ECU	98
C2085 (3-W)	behind RH footwell trim panel	171
C2090 (5-Y) (Automatic Transmission)	behind LH side of fascia on Front Fog Lamps Relay	104
C2090 (5-Y) (Manual Transmission)	behind LH side of fascia on Front Fog Lamps Relay	230
C2091 (5-G) (Automatic Transmission)	behind LH side of fascia on Rear Fog Lamps Relay	104
C2091 (5-G) (Manual Transmission)	behind LH side of fascia on Rear Fog Lamps Relay	230
C2092 (5-G) (Automatic Transmission)	behind LH side of fascia on A.B.S. Warning Relay	105
C2092 (5-G) (Manual Transmission)	behind LH side of fascia on A.B.S. Warning Relay	232
C2093 (5-Y) (Automatic Transmission)	behind LH side of fascia on A.B.S. Load Relay	105
C2093 (5-Y) (Manual Transmission)	behind LH side of fascia on A.B.S. Load Relay	232
C2094 (4-B) (Automatic Transmission)	behind LH side of fascia on A.B.S. Pump Relay	106

Connector	Location	View
C2094 (4-B) (Manual Transmission)	behind LH side of fascia on A.B.S. Pump Relay	233
C2095 (9-B) (With Immobilisation)	behind centre of fascia on Engine Immobilisation Control Unit (Spider)	119
C2095 (9-B) (Without Immobilisation)	behind centre of fascia above heater evaporator unit	119
C2096 (2-B)	top of steering column to Passive Immobilisation Coil	153
C2097 (4-W)	behind RH side of fascia near steering column	137
C2098 (5-G)	centre of fascia on Front Fog Lamps Switch	116
C2100 (2-W)	behind LH footwell trim panel	92
C2101 (13-W)	behind LH footwell trim panel	92
C2102 (2-W)	behind LH footwell trim panel	92
C2103 (2-W)	behind RH footwell trim panel	166
C2104 (13-W)	behind RH footwell trim panel	166
C2105 (2-W)	behind RH footwell trim panel	166
C2107 (5-W)	behind RH footwell trim panel on Cruise Control Disable Relay	177
C2109 (5-Y)	behind LH footwell trim panel on Dim/Dip Relay 2	94
C2110 (2-S)	LH A-post to Left Front Tweeter	179
C300 (4-B)	centre of roof to Rear Interior Roof Lamp	197
C301 (6-W)	beneath centre console	127
C306 (3-W)	beneath centre console	127
C307 (2-BW)	beneath RH front seat	244
C309 (2-BW)	beneath LH front seat	244
C316 (6-B)	RH side of centre console on Right Front Seat Control Switch	130
C317 (6-B)	RH side of centre console on Right Front Seat Control Switch	130
C318 (9-R)	beneath RH front seat	195
C319 (6-B)	LH side of centre console on Left Front Seat Control Switch	129
C320 (6-B)	LH side of centre console on Left Front Seat Control Switch	129
C321 (9-U)	beneath LH front seat	190
C323 (5-B)	LH side of transmission to Park/Neutral Position Switch	85
C334 (3-B)	front centre of roof to Electrochromic Rear View Mirror	133
C335 (4-B)	top of LH B-post on Alarm Sensor	241
C337 (7-W)	in rear of centre console on Left Front Window Switch	124
C338 (7-G)	in rear of centre console on Right Front Window Switch	124
C339 (7-Y)	in rear of centre console on Left Rear Window Console Switch	125
C340 (7-R)	in rear of centre console on Right Rear Window Console Switch	125
C341 (5-W)	in rear of centre console on Left Seat Heat Switch	239
C342 (5-G)	in rear of centre console on Right Seat Heat Switch	239
C343 (7-N)	in rear of centre console on Rear Window Isolation Switch	125
C344 (6-B)	beneath centre console to Transmission Range Selector Switch	123
C346 (2-U)	beneath centre console to Automatic Gear Selector Illumination	123
C348 (5-Y)	beneath LH front seat on Left Seat Power Relay	190
C349 (5-W)	beneath LH front seat on Left Seat Heat Relay	194
C350 (3-W)	front centre of roof on Front Interior Roof Lamp	131
C351 (2-B)	RH front of roof to Right Vanity Mirror Lamp	180
C352 (2-B)	LH front of roof to Left Vanity Mirror Lamp	180



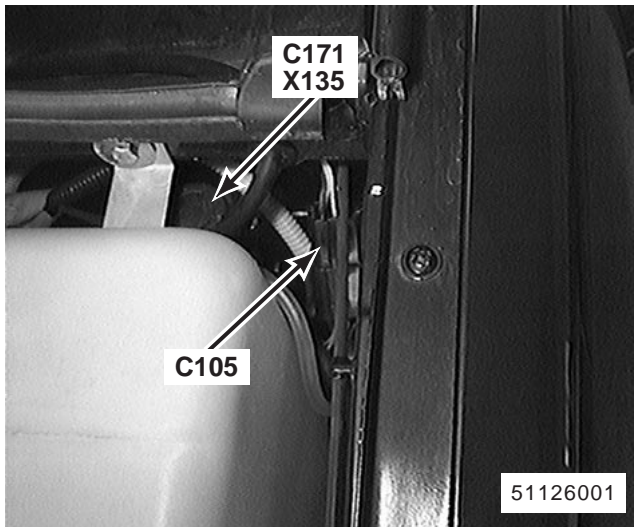
Connector	Location	View
C353 (2-W)	beneath centre console on Fascia Cigar Lighter	122
C354 (29-R)	beneath centre console on Air Bag Diagnostic Control Module	126
C356 (1-B)	beneath centre console on Fascia Cigar Lighter	122
C357 (5-W)	beneath LH front seat on Right Seat Heat Relay	194
C358 (5-Y)	beneath LH front seat on Right Seat Power Relay	190
C368 (3-B)	top RH side of transfer box to Transfer Box Position Switch	91
C369 (2-B)	top RH side of transfer box to Transfer Box Solenoid	91
C370 (3-B)	LH side of transfer box on Vehicle Speed Sensor	89
C371 (2-B)	LH side of transfer box on Transfer Box Oil Temperature Switch	88
C372 (2-B)	on top of transmission	86
C378 (2-B)	beneath RH front seat to Driver's Seat Buckle Switch	240
C381 (3-W)	beneath RH front seat on CD Changer	195
C382 (8-W)	front centre of roof on Sunroof Control Unit	134
C383 (10-W)	front centre of roof on Sunroof Control Unit	134
C384 (7-G)	front centre of roof on Front Sunroof Switch	132
C385 (7-W)	front centre of roof on Rear Sunroof Switch	132
C386 (5-S)	front centre of roof on Rear Sunroof Lockout Switch	133
C387 (4-W)	front centre of roof to Front Sunroof Motor	134
C388 (4-W)	centre of roof to Rear Sunroof Motor	199
C389 (3-W)	centre of roof on Passenger's Rear Sunroof Switch	198
C391 (5-W)	centre of roof on Passenger's Rear Fan Speed Switch	196
C392 (5-U)	centre of roof on Passenger's Rear A/C Switch	196
C398 (2-W)	underside of LH front seat	243
C399 (5-W)	underside of LH front seat	243
C3000 (1-B)	on top of transmission to Reverse Switch	86
C3001 (1-B)	on top of transmission to Reverse Switch	86
C3003 (6-W)	beneath centre console on E303	128
C3004 (3-W)	in lower part of LH B-post	186
C3005 (2-W)	in lower part of LH B-post	186
C3006 (3-W)	in lower part of RH B-post	186
C3007 (2-W)	in lower part of RH B-post	186
C3011 (6-W)	beneath LH front seat on E301	191
C400 (7-B)	RH rear of luggage compartment Trailer Auxiliary Socket	225
C402 (1-B)	LH side of tailgate to Number Plate Lamps	215
C403 (6-W)	LH rear of luggage compartment on Left Rear Lamp Assembly	204
C404 (1-B)	LH side of tailgate to Number Plate Lamps	215
C406 (6-W)	RH rear of luggage compartment on Right Rear Lamp Assembly	209
C407 (6-B)	beneath LH rear of vehicle	217
C408 (3-B)	RH side of tailgate on Rear Wiper Motor	213
C412 (6-W)	LH side of tailgate on Subwoofer Amplifier	216
C413 (4-W)	LH side of tailgate on Subwoofer Amplifier	216
C414 (2-W)	LH side of tailgate to Tailgate Lock Actuator	214
C415 (8-W)	in RH side of tailgate door jamb	211
C424 (1-B)	RH rear of luggage compartment Trailer Auxiliary Socket	210
C425 (1-B)	RH rear of luggage compartment Trailer Auxiliary Socket	210

Connector	Location	View
C426 (1-B)	RH rear of roof behind trim panel on Right Antenna Amplifier	242
C431 (1-B)	LH rear of roof behind trim panel on Left Antenna Amplifier	242
C434 (4-B)	top of fuel tank to Fuel Pump Module	221
C437 (6-W)	in RH side of tailgate door jamb	211
C438 (2-W)	in RH side of tailgate door jamb	211
C441 (2-R)	behind LH side of rear bumper on Left Tail Lamp	222
C442 (2-B)	behind LH side of rear bumper on Left Rear Indicator Lamp	222
C443 (2-B)	behind LH side of rear bumper on Left Rear Side Marker Lamp	223
C444 (2-R)	behind RH side of rear bumper on Right Tail Lamp	224
C445 (2-B)	behind RH side of rear bumper on Right Rear Indicator Lamp	224
C446 (2-B)	behind RH side of rear bumper on Right Rear Side Marker Lamp	223
C447 (2-W)	LH rear of luggage compartment	205
C448 (16-W)	LH rear of luggage compartment	205
C453 (1-B)	LH side of tailgate	215
C454 (1-B)	RH side of tailgate to Rear Screen	212
C455 (1-B)	RH side of tailgate	212
C456 (1-B)	LH side of tailgate	215
C457 (5-W)	LH side of luggage compartment on Rear Blower Motor Relay	203
C458 (2-B)	LH side of luggage compartment on Rear Blower Motor	200
C459 (4-B)	LH side of luggage compartment on Rear Blower Resistor Unit	
C462 (2-B)	LH rear of luggage compartment on Rear A/C Switch Amplifier In-Line Fuse	204
C463 (4-W)	LH side of luggage compartment on Rear A/C Control Relay	201
C464 (2-S)	LH side of luggage compartment on Rear A/C Refrigerant Control Valve	236
C465 (4-W)	LH side of luggage compartment on Rear A/C Illumination Relay	202
C466 (4-W)	LH side of luggage compartment on Rear A/C Fan Speed Relay	203
C467 (6-W)	LH side of luggage compartment on Rear A/C Switch Amplifier	200
C470 (2-)	RH rear of roof behind trim panel on Right Antenna Amplifier	242
C471 (2-)	LH rear of roof behind trim panel on Left Antenna Amplifier	242
C485 (2-W)	beneath RH rear of vehicle to Left Rear Wheel Speed Sensor	219
C486 (2-W)	beneath LH rear of vehicle to Right Rear Wheel Speed Sensor	218
C487 (6-W)	RH rear of luggage compartment on E401	208
C489 (2-)	RH side of tailgate on Rear Wiper Motor	213
C500 (2-B)	in front of LH front door to Left Front Window Motor	183
C503 (6-W)	top front of LH front door to Left Mirror Actuator	181
C507 (2-W) (Except Japan) (Without Theft Alarm)	in rear of LH front door to Left Front Door Lock Actuator	182
C507 (4-W) (Japan)	in rear of LH front door to Left Front Door Lock Actuator	182
C507 (6-W) (Except Japan) (With Theft Alarm)	in rear of LH front door to Left Front Door Lock Actuator	182
C600 (2-B)	in front of RH front door to Right Front Window Motor	183
C603 (6-W)	top front of RH front door to Right Mirror Actuator	181
C604 (4-W)	in top rear of RH front door to Right Front Door Key Switch	185
C607 (4-W) (Japan)	in rear of RH front door to Right Front Door Lock Actuator	184
C607 (4-W) (Except Japan) (Without Theft Alarm)	in rear of RH front door to Right Front Door Lock Actuator	184

Connector	Location	View
C607 (6-W) (Except Japan) (With Theft Alarm) .....	in rear of RH front door to Right Front Door Lock Actuator .....	184
C703 (2-B) .....	inside front of LH rear door to Left Rear Window Motor .....	189
C706 (2-W) .....	inside front of LH rear door to Left Rear Door Lock Actuator .....	187
C709 (5-W) .....	inside front of LH rear door on Left Rear Window Door Switch .....	188
C803 (2-B) .....	inside front of RH rear door to Right Rear Window Motor .....	189
C806 (2-W) .....	inside front of RH rear door to Right Rear Door Lock Actuator .....	187
C809 (5-W) .....	inside front of RH rear door on Right Rear Window Door Switch .....	188

Ground	Location	View
E100 (MFI-V8) (MFI-T16) ..	RH front of engine compartment behind battery .....	41
E100 (300Tdi) .....	RH front of engine compartment behind battery .....	42
E101 (MFI-V8) (MFI-T16) ..	LH front of engine compartment on fender well .....	23
E101 (300Tdi) .....	LH front of engine compartment on fender well .....	24
E102 (MFI-V8) (MFI-T16) ..	RH rear of engine compartment .....	43
E102 (300Tdi) .....	RH rear of engine compartment .....	44
E103 (MFI-V8) .....	LH rear corner of engine below valve cover .....	6
E104 .....	lower LH rear of engine compartment on frame rail	
E105 .....	LH front of engine compartment on Ignition Coil .....	29
E106 .....	lower LH side of engine .....	16
E108 .....	near Starter	
E109 .....	lower RH side of engine compartment on frame rail .....	38
E110 .....	RH side of bulkhead .....	80
E200 .....	behind RH footwell trim panel .....	167
E201 .....	behind LH footwell trim panel .....	92
E203 .....	behind LH side of fascia .....	235
E204 .....	behind LH footwell trim panel .....	92
E301 .....	beneath LH front seat .....	191
E303 .....	beneath centre console .....	128
E400 .....	LH rear of luggage compartment .....	206
E401 .....	RH rear of luggage compartment .....	208
E404 .....	beneath RH rear of vehicle near fuel filler pipe .....	220

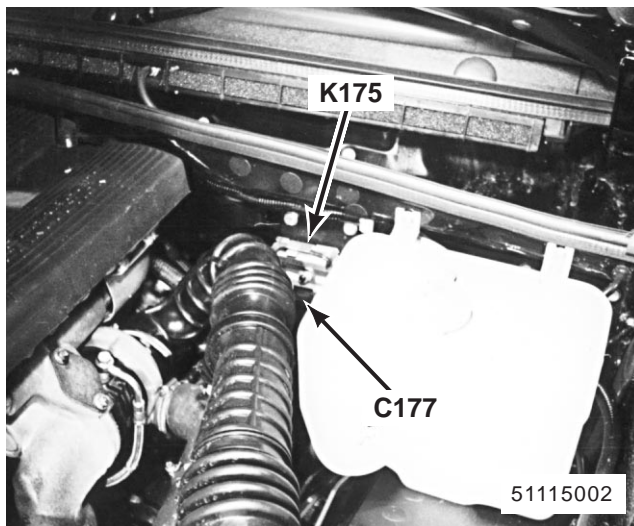
Splice	Location	View
HJ1 (20-S) .....	behind RH side of fascia near C2035 .....	158
HJ2 (20-U) .....	behind LH side of fascia .....	110
HJ3 (20-S) .....	behind LH side of fascia .....	111
HJ4 (20-S) .....	behind LH side of fascia .....	111
HJ5 (20-S) .....	behind LH side of fascia .....	110
HJ6 (20-G) .....	behind LH side of fascia .....	111
HJ7 (20-U) .....	behind RH side of fascia near Engine Control Module (ECM) .....	140
HJ8 (20-S) .....	behind instrument cluster .....	156
HJ9 (20-S) .....	behind instrument cluster .....	155
HJ10 (20-S) .....	behind RH footwell trim panel .....	166
HJ11 (20-S) .....	behind LH side of fascia .....	110
HJ12 (20-G) .....	LH rear corner of roof behind trim panel .....	207



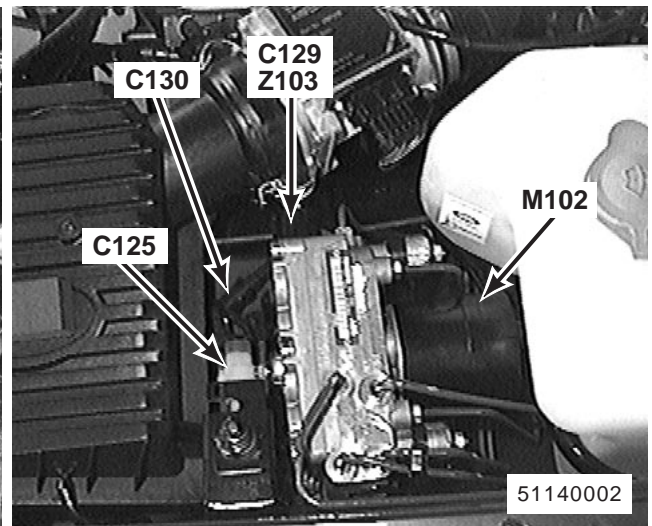
1. LH rear corner of engine compartment  
 X135 Inertia Fuel Shut-Off Switch  
 C105 (13-B)  
 C171 (3-B)



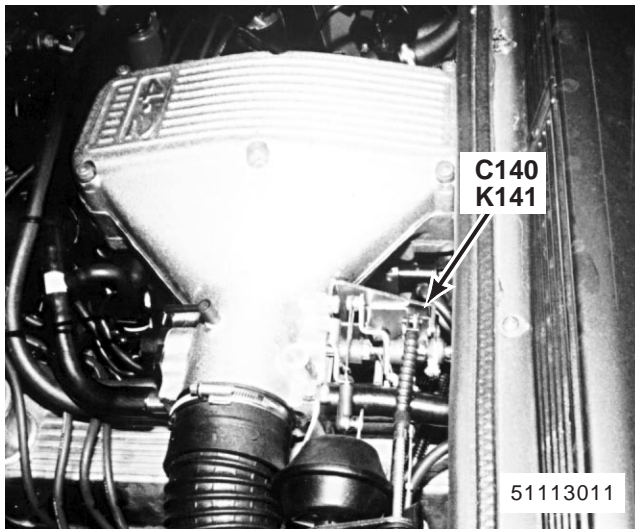
2. LH rear corner of engine compartment  
 M105 Front Screen Wash Pump  
 M110 Headlamp Wash Pump  
 M119 Rear Screen Wash Pump  
 C120 (2-W)  
 C170 (2-R)  
 C173 (2-B)



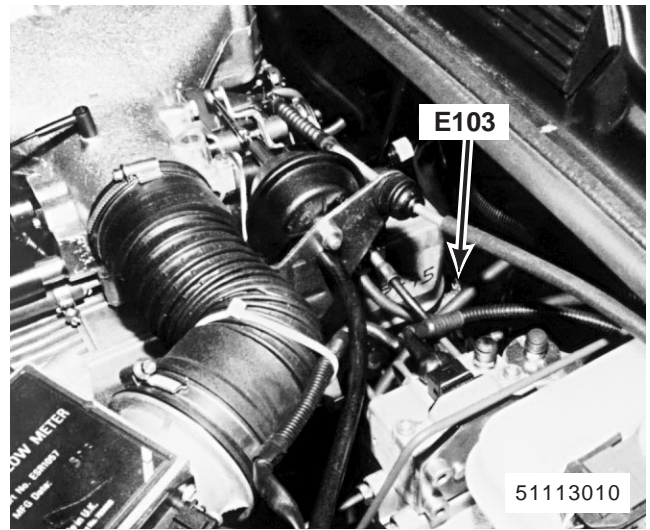
3. LH rear of engine compartment  
 K175 Dim/Dip Resistor  
 C177 (2-B)



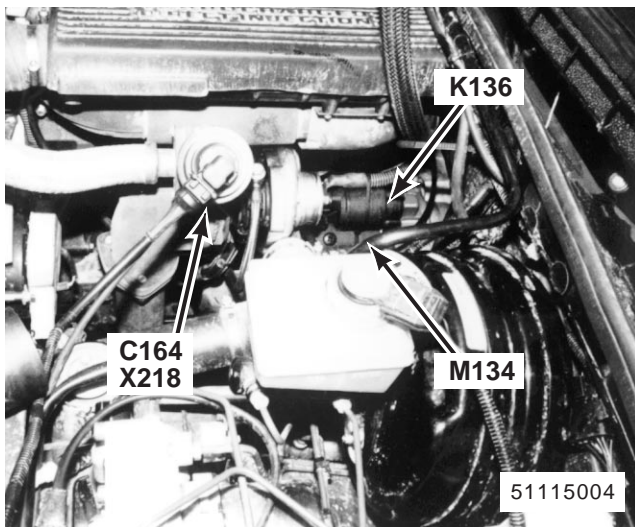
4. LH rear of engine compartment  
 M102 A.B.S. Hydraulic Pump  
 Z103 A.B.S. Booster Unit  
 C125 (2-B)  
 C129 (13-B)  
 C130 (2-WB)



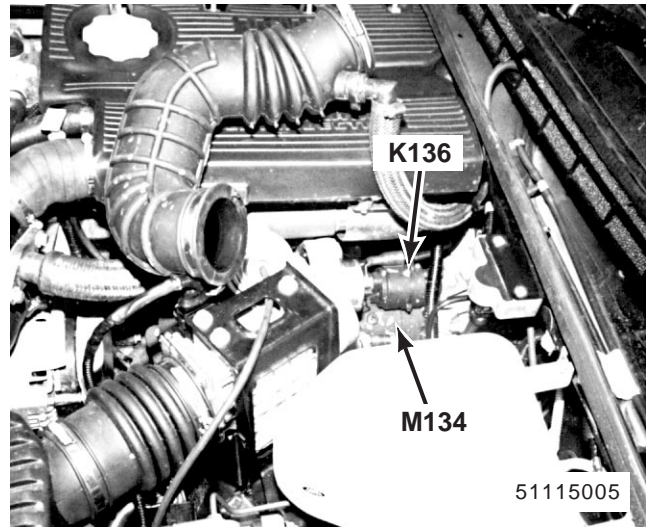
5. LH rear of engine (MFI-V8)  
K141 Fuel Injectors  
C140 (2-B)



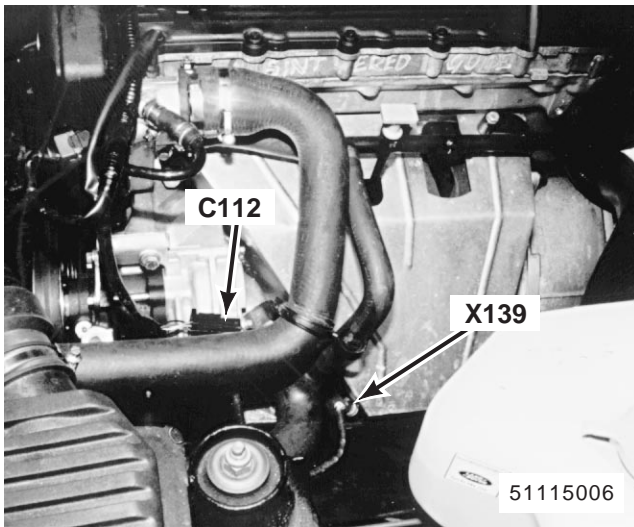
6. LH rear of engine (MFI-V8)  
E103



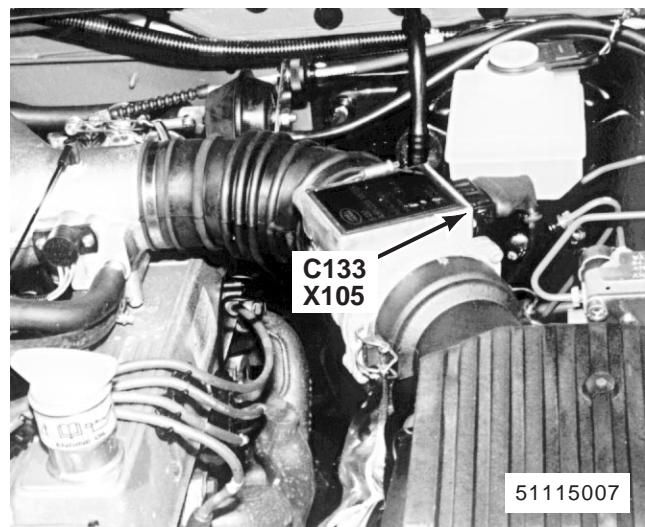
7. lower LH side of engine (300Tdi without EDC)  
K136 Starter Solenoid  
M134 Starter  
X218 EGR Valve Position Sensor  
C164 (3-B)



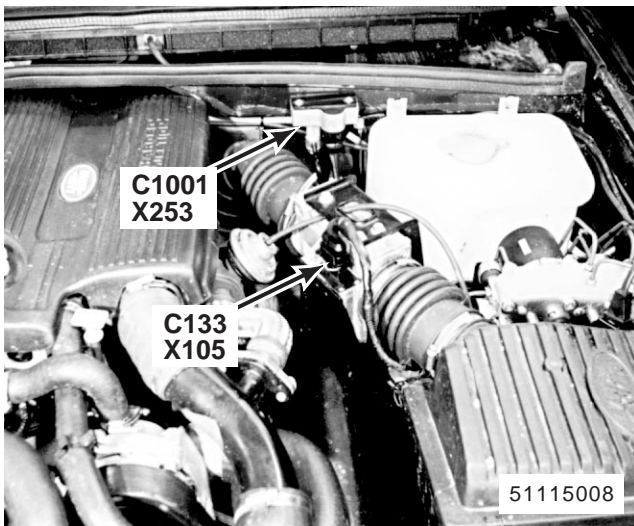
8. lower LH side of engine (300Tdi with EDC)  
K136 Starter Solenoid  
M134 Starter



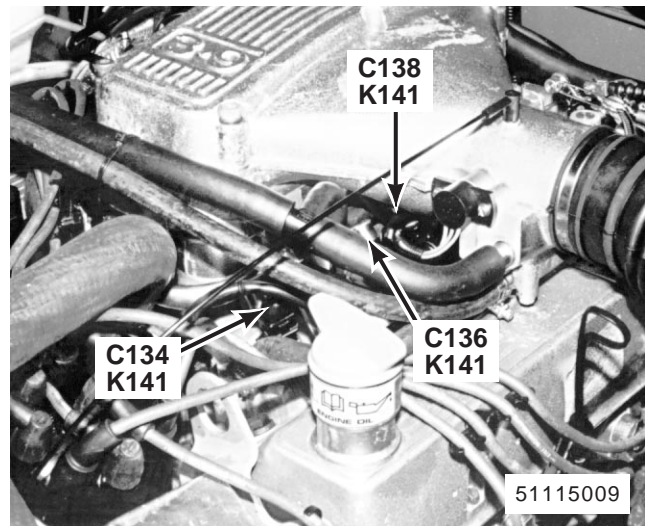
9. lower LH side of engine (MFI-T16)  
X139 Left Heated Oxygen Sensor  
C112 (4-B)



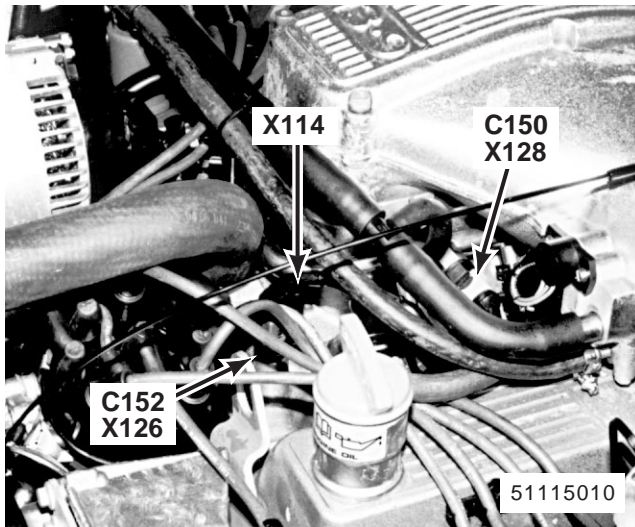
10. LH side of engine compartment (MFI-V8)  
X105 Mass Air Flow Sensor  
C133 (6-B)



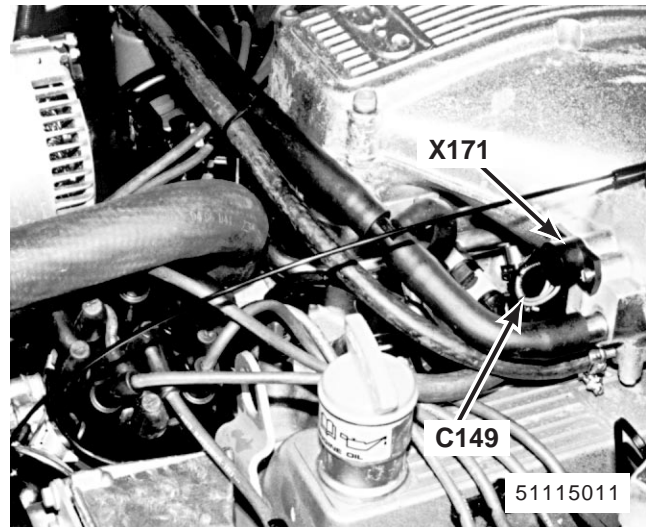
11. (LH side of engine compartment) (300Tdi with EDC)  
X105 Mass Air Flow Sensor  
X253 Boost Pressure Sensor  
C133 (5-B)  
C1001 (3-B)



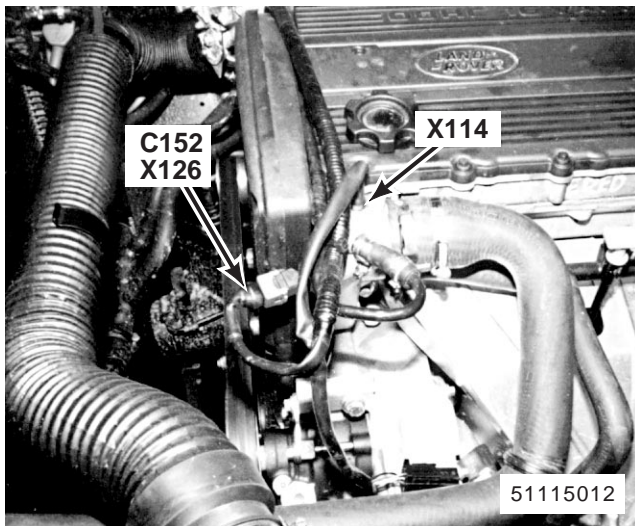
12. top LH side of engine (MFI-V8)  
K141 Fuel Injectors  
C134 (2-B)  
C136 (2-B)  
C138 (2-B)



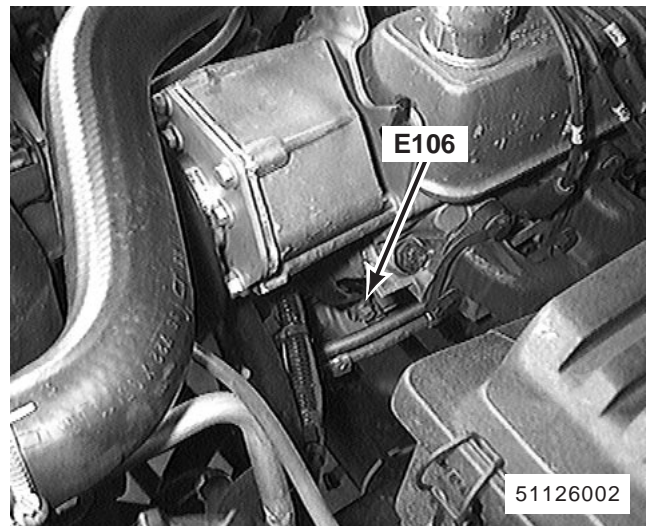
13. top LH front of engine (MFI-V8)  
 X114 Engine Coolant Temperature Gauge Sensor  
 X126 Engine Coolant Temperature Sensor  
 X128 Engine Fuel Temperature Sensor  
 C150 (2-S)  
 C152 (2-N)



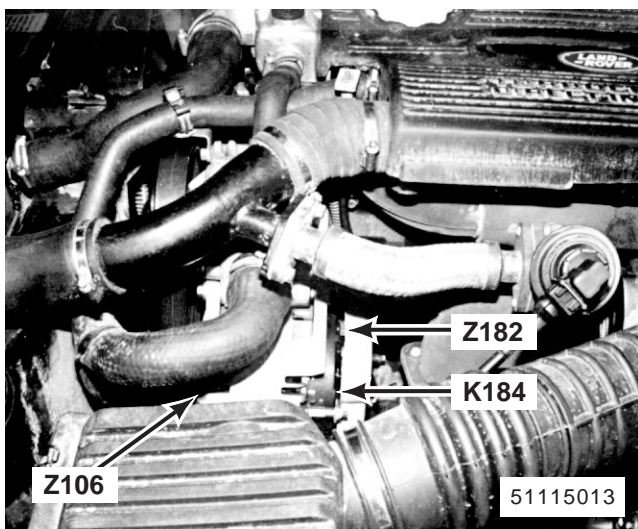
14. top LH front of engine (MFI-V8)  
 X171 Throttle Position Sensor  
 C149 (3-B)



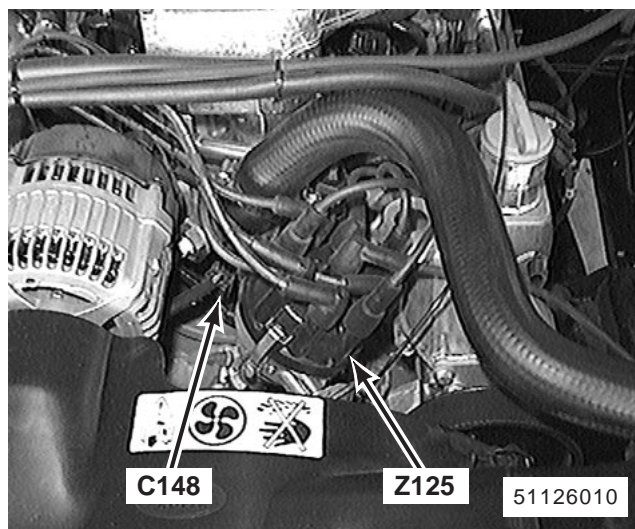
15. top LH front of engine (MFI-T16)  
 X114 Engine Coolant Temperature Gauge Sensor  
 X126 Engine Coolant Temperature Sensor  
 C152 (2-N)



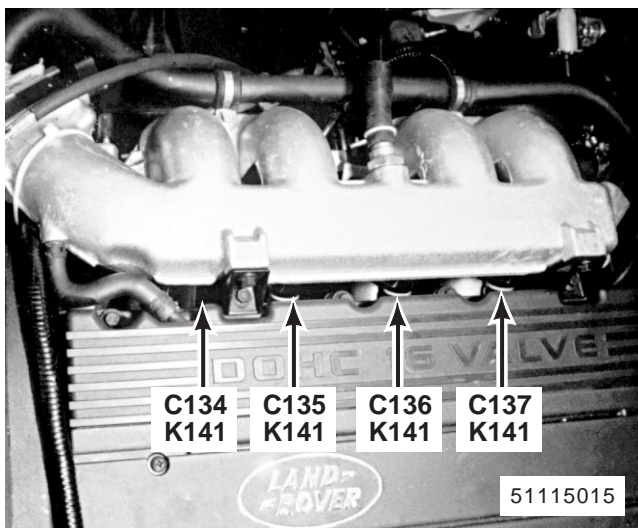
16. LH front of engine (MFI-V8)  
 E106



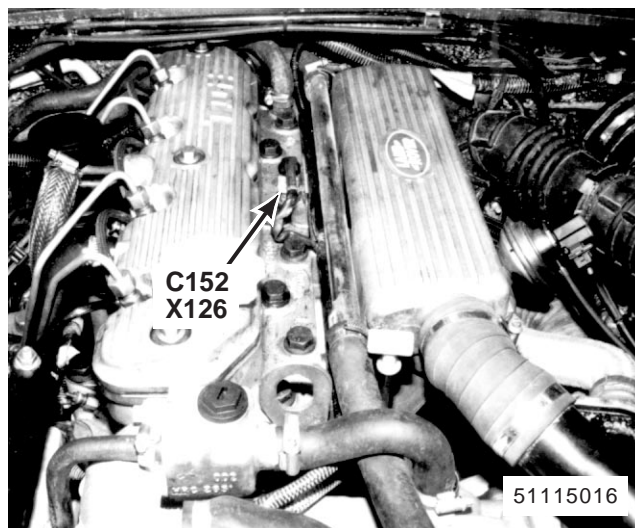
17. lower LH side of engine (300Tdi)  
 K184 Phase Tap Resistor  
 Z106 Generator  
 Z182 Generator Suppression Capacitor



18. top centre front of engine (MFI-V8)  
 Z125 Distributor  
 C148 (2-B)

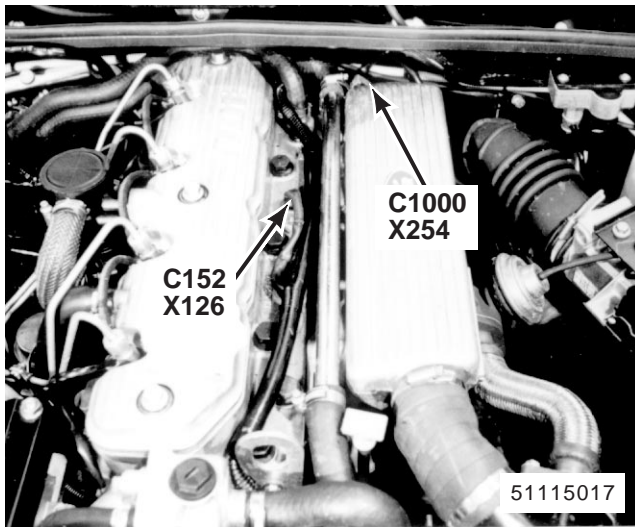


19. top centre front of engine (MFI-T16)  
 K141 Fuel Injectors  
 C134 (2-B)  
 C135 (2-B)  
 C136 (2-B)  
 C137 (2-B)

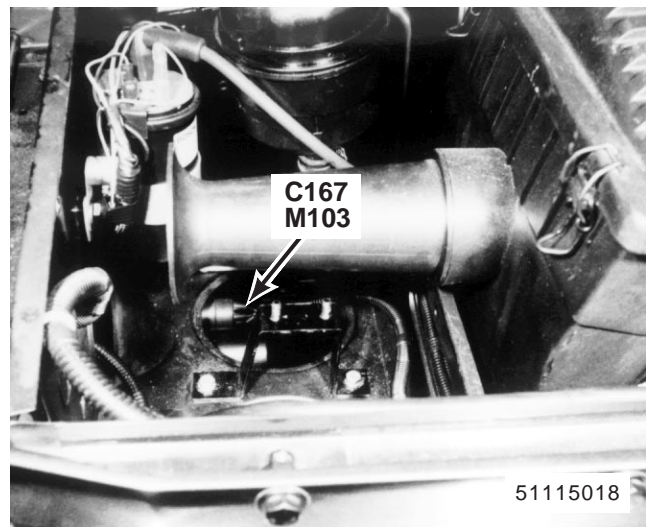


20. top centre front of engine (300Tdi without EDC)  
 X126 Engine Coolant Temperature Sensor  
 C152 (2-N)

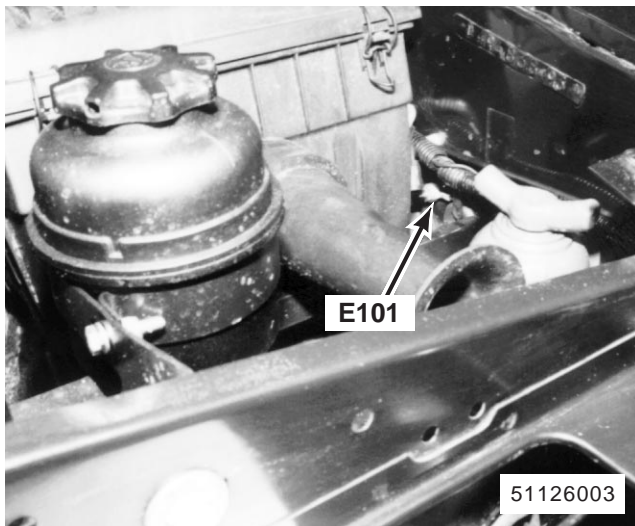




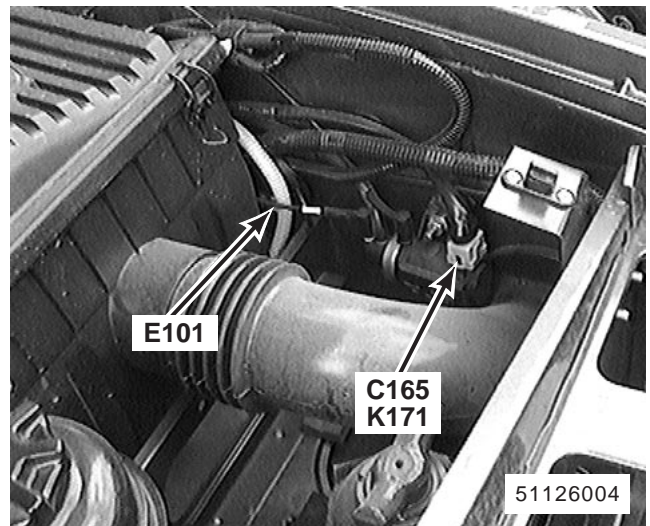
21. top centre front of engine (300Tdi with EDC)  
 X126 Engine Coolant Temperature Sensor  
 X254 Boost Pressure Air Temperature Sensor  
 C152 (2-N)  
 C1000 (2-G)



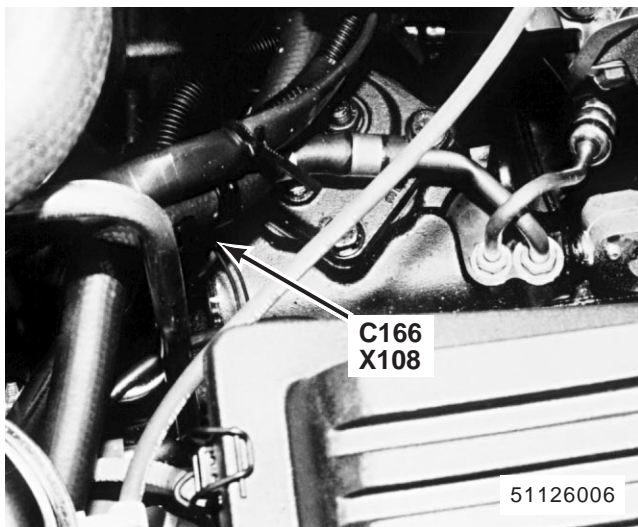
22. LH front corner of engine compartment (MFI-V8 shown; others similar)  
 M103 Cruise Control Vacuum Pump  
 C167 (3-W)



23. LH front of engine compartment (MFI-V8) (MFI-T16)  
 E101



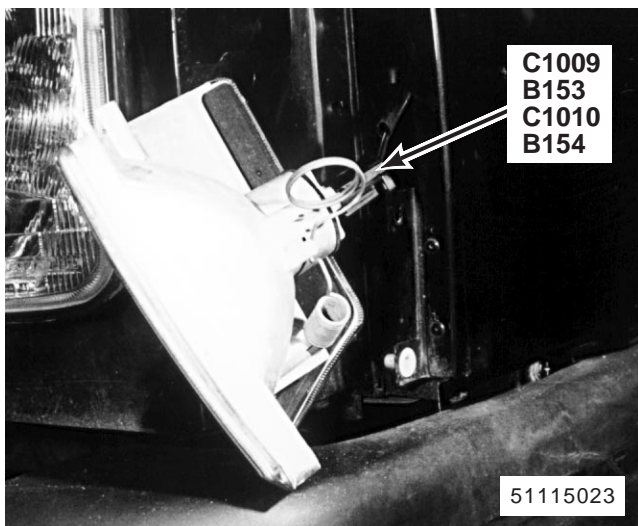
24. LH front of engine compartment (300Tdi)  
 K171 EGR Control Solenoid  
 C165 (2-B) (300Tdi without EDC)  
 C165 (2-S) (300Tdi with EDC)  
 E101



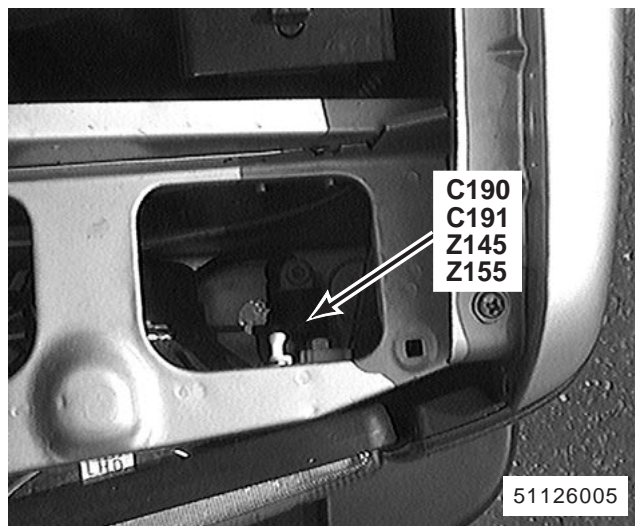
25. lower LH front of engine compartment (MFI-V8 shown; others similar)  
 X108 Automatic Transmission Oil Temperature Switch  
 C166 (2-B)



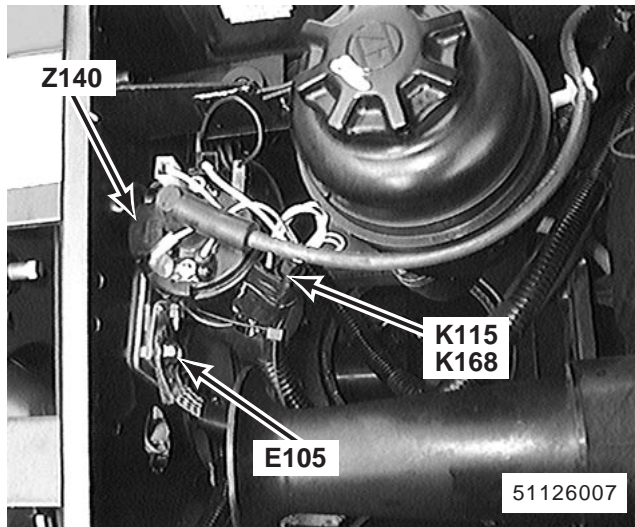
26. LH front side of vehicle (RH similar)  
 B122 Left Repeater Lamp  
 B137 Right Repeater Lamp  
 C123 (2-B) (Right)  
 C124 (2-B) (Left)



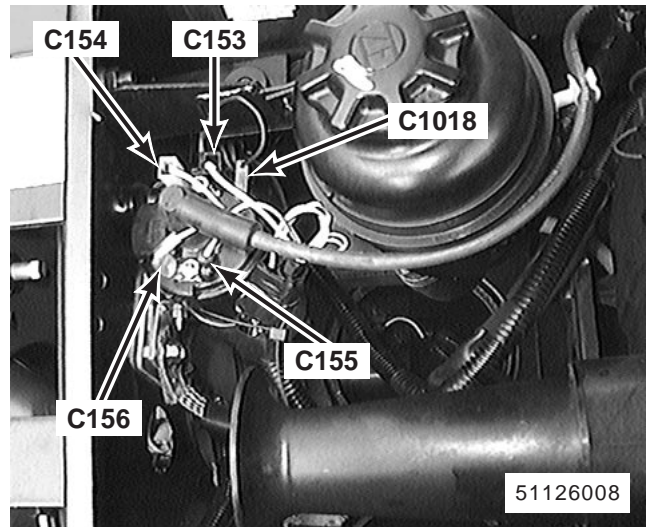
27. LH front of vehicle (RH similar)  
 B153 Left Front Indicator Lamp  
 B154 Right Front Indicator Lamp  
 C1009 (2-B) (Left)  
 C1010 (2-B) (Right)



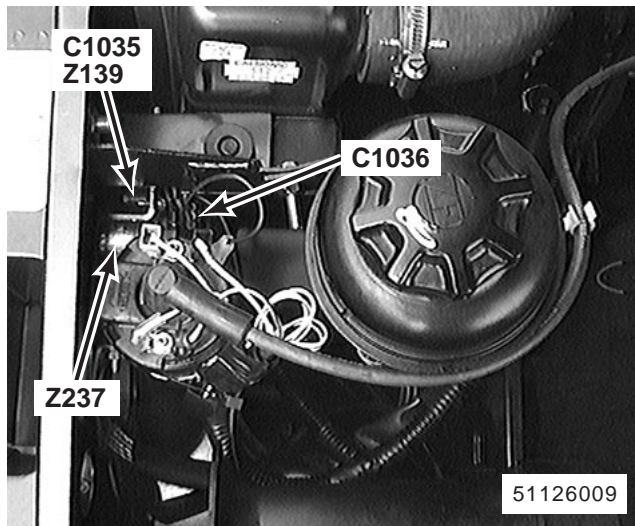
28. LH front of engine compartment (RH similar)  
 Z145 Left Headlamp Level Unit  
 Z155 Right Headlamp Level Unit  
 C190 (3-B) (Left)  
 C191 (3-B) (Right)



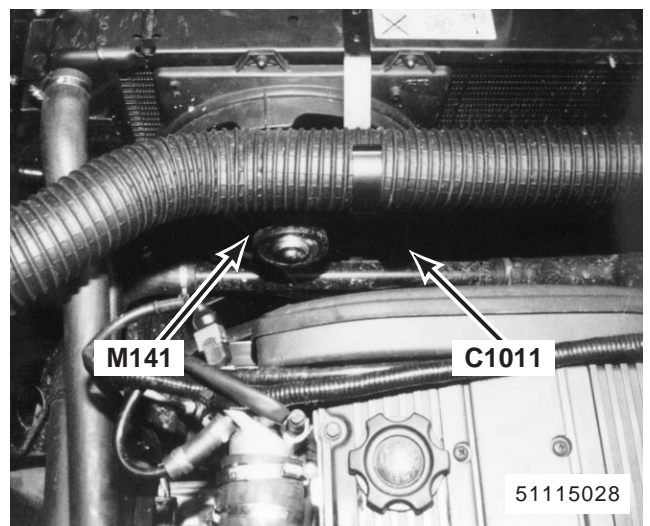
29. LH front of engine compartment (MFI-V8)  
 K115 Multiport Fuel Injection Ignition Resistor 1  
 K168 Multiport Fuel Injection Ignition Resistor 2  
 Z140 Ignition Coil  
 E105



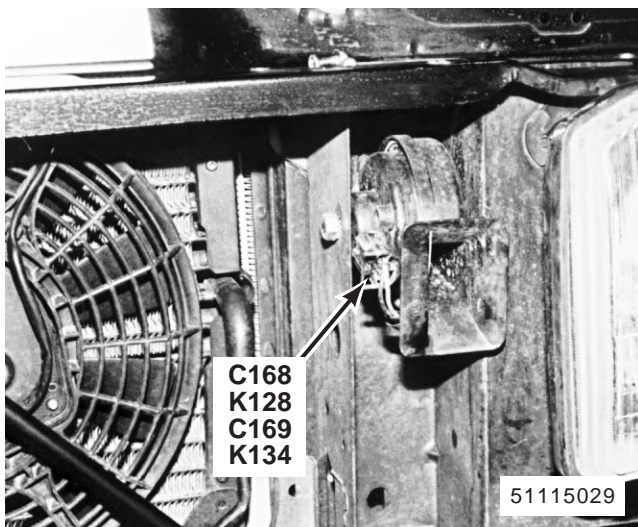
30. LH front of engine compartment (MFI-V8)  
 C153 (1-B)  
 C154 (1-W)  
 C155 (1-B)  
 C156 (1-W)  
 C1018 (1-W)



31. LH front of engine compartment (MFI-V8)  
 Z139 Ignition Control Module  
 Z237 Ignition Coil Noise Suppressor  
 C1035 (3-B)  
 C1036 (3-B)



32. front of engine compartment (MFI-T16 without Air Conditioning)  
 M141 Cooling Fan Motor 1  
 C1011 (2-W)



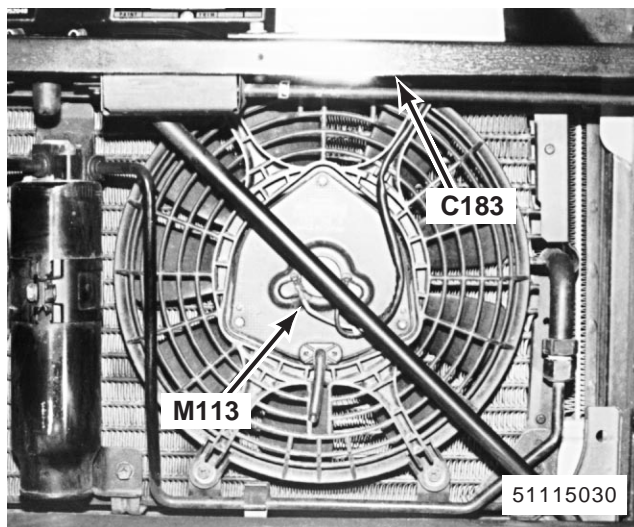
33. LH front of vehicle (RH similar)

K128 Left Horn

K134 Right Horn

C168 (2-B) (Left)

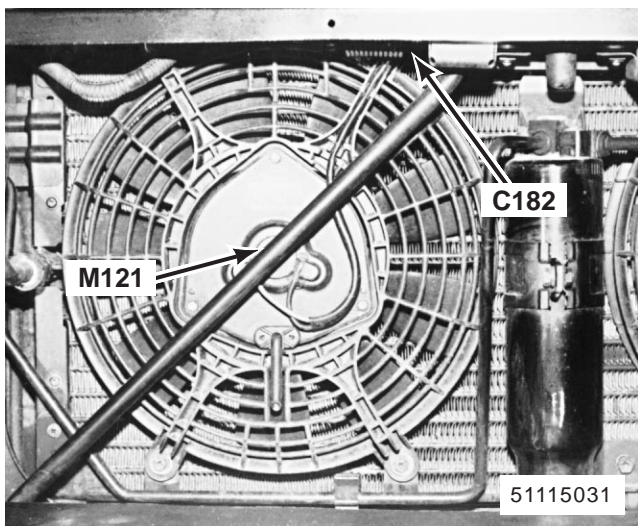
C169 (2-B) (Right)



34. behind front grille

M113 Left Condenser Fan Motor

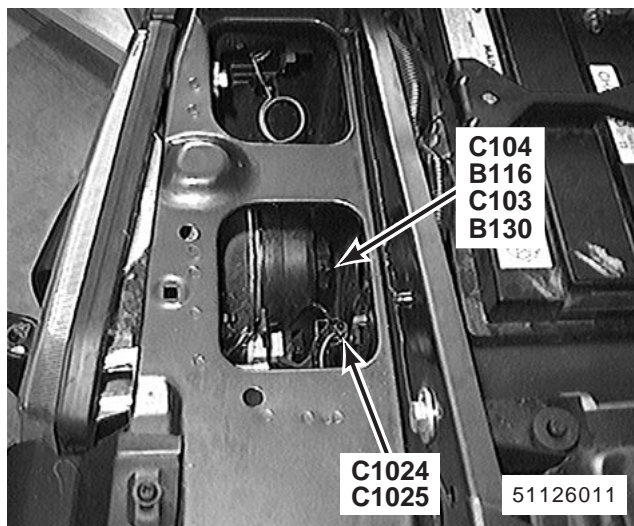
C183 (2-B)



35. behind front grille

M121 Right Condenser Fan Motor

C182 (2-B)



36. RH front of vehicle (LH similar)

B116 Left Headlamp

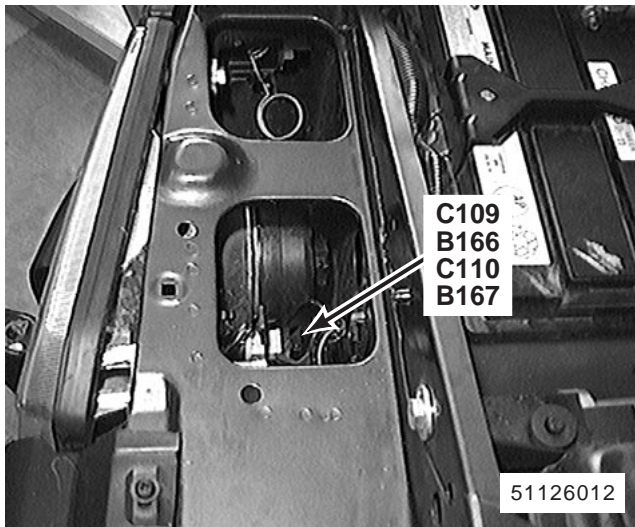
B130 Right Headlamp

C103 (3-B) (Right)

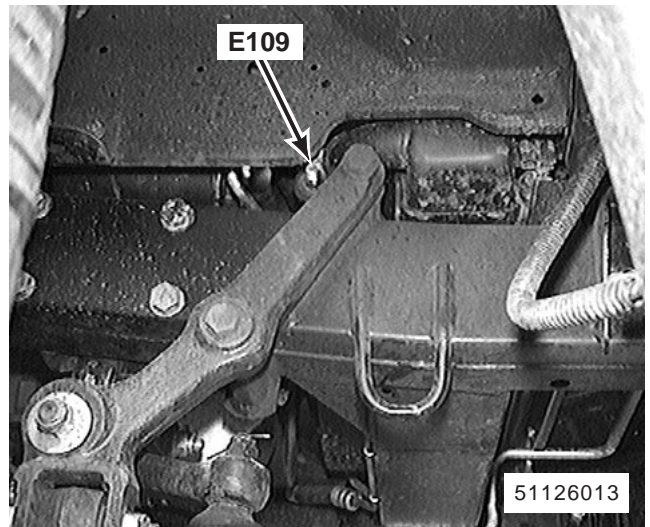
C104 (3-B) (Left)

C1024 (2-B) (Left)

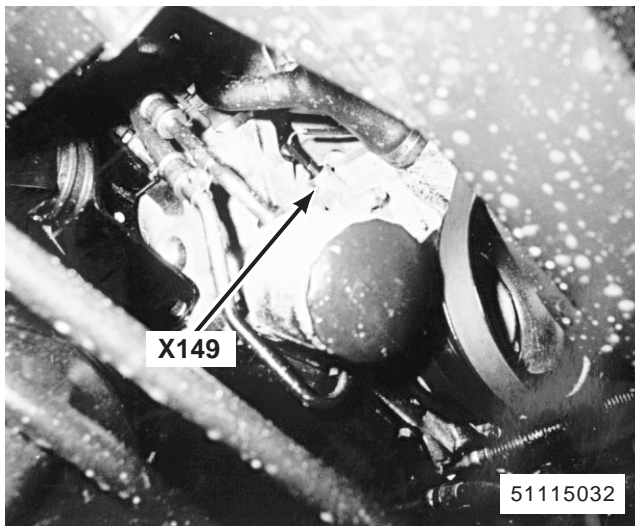
C1025 (2-B) (Right)



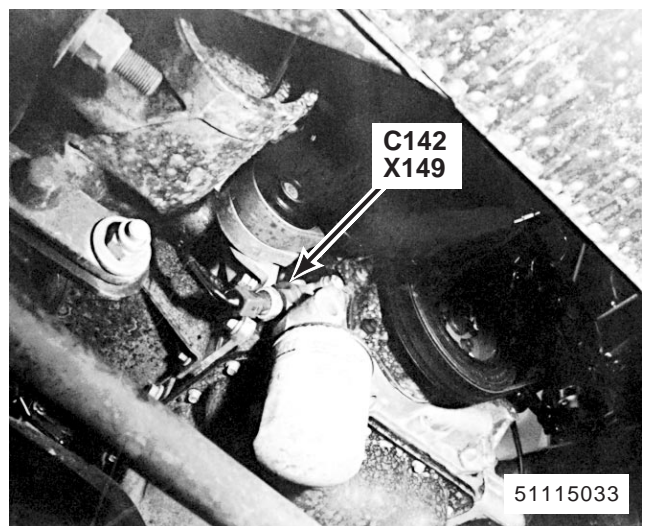
37. RH front of vehicle (LH similar)  
 B166 Left Front Side Lamp  
 B167 Right Front Side Lamp  
 C109 (2-B) (Left)  
 C110 (2-B) (Right)



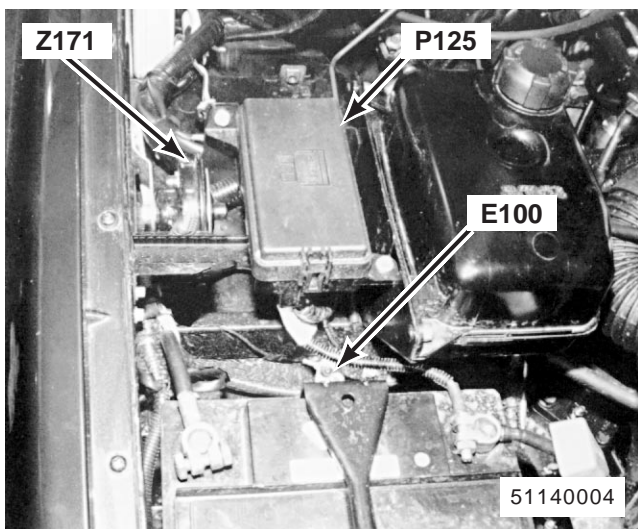
38. lower RH front of engine compartment behind  
 RH front wheel  
 E109



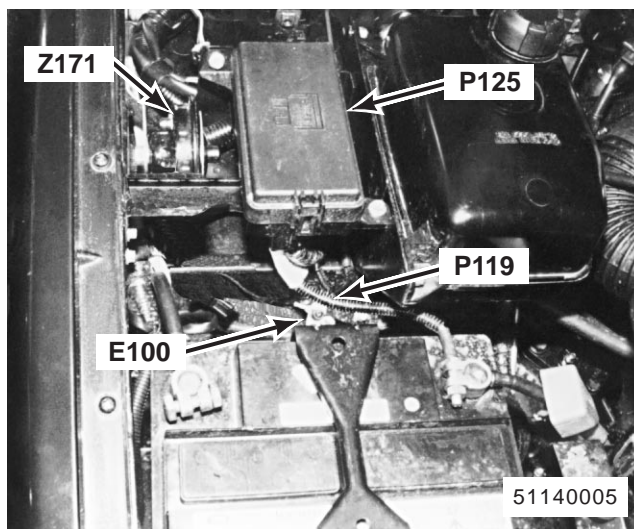
39. lower RH side of engine (MFI-V8)  
 X149 Oil Pressure Switch



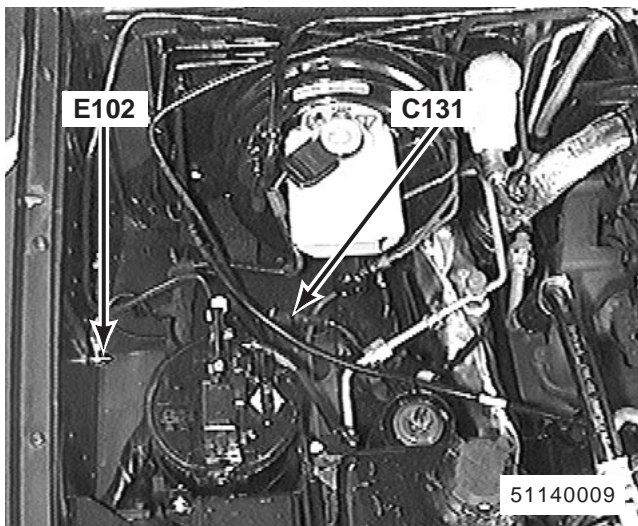
40. lower RH side of engine (MFI-T16)  
 X149 Oil Pressure Switch  
 C142 (2-N)



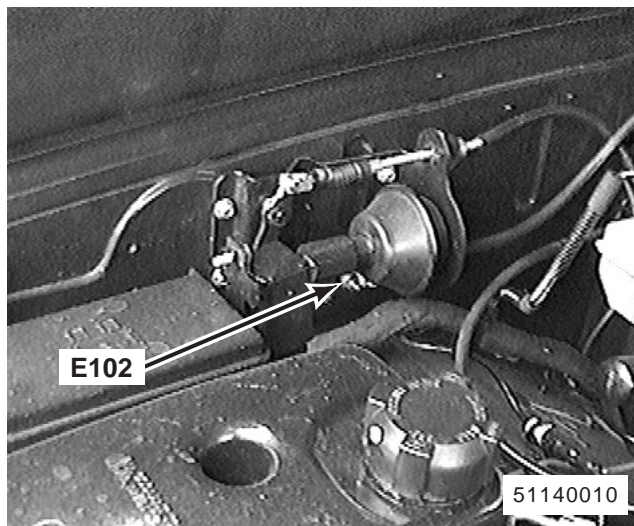
41. RH front of engine compartment (MFI-V8)  
(MFI-T16)  
P125 Engine Compartment Fuse Box  
Z171 Alarm Sounder  
E100



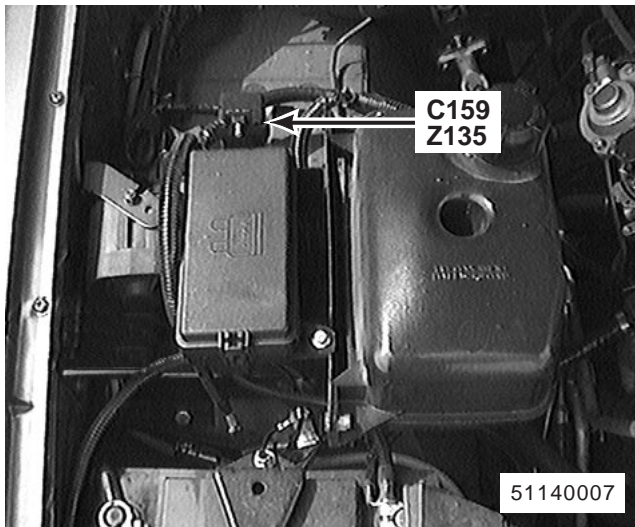
42. RH front of engine compartment (300Tdi)  
P119 Fusible Link  
P125 Engine Compartment Fuse Box  
Z171 Alarm Sounder  
E100



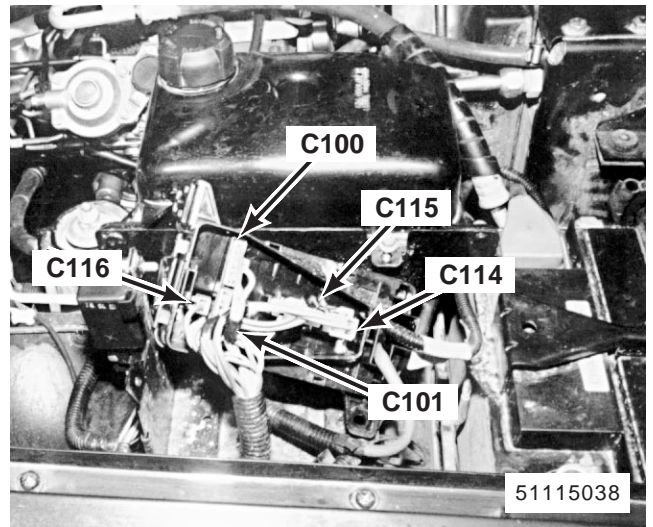
43. RH rear of engine compartment (MFI-V8  
shown; others similar)  
C131 (2-WB)  
E102



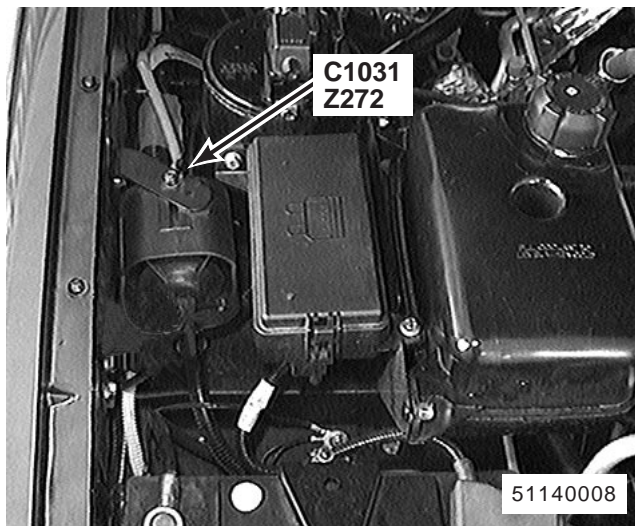
44. RH rear of engine compartment (300Tdi)  
E102



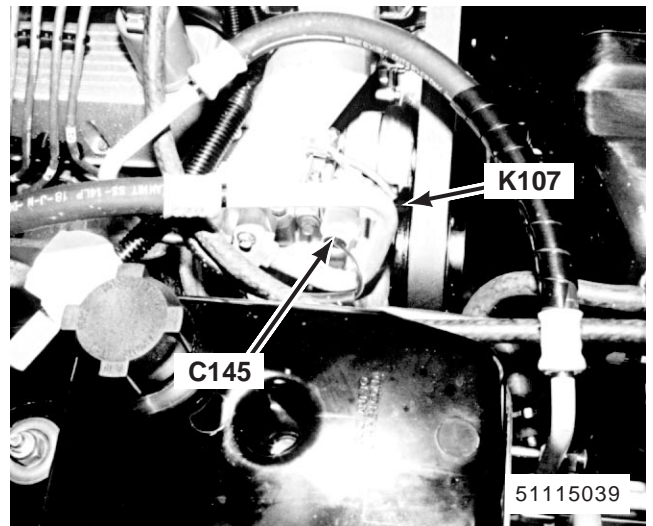
45. RH front of engine compartment (300Tdi)  
Z135 Glow Plug Timer Unit  
C159 (6-B)



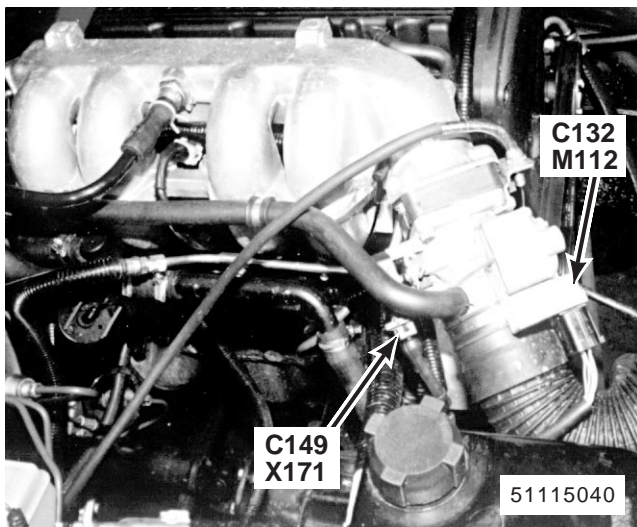
46. RH front of engine compartment  
C100 (3-W)  
C101 (4-W)  
C114 (2-W)  
C115 (3-W)  
C116 (1-W)



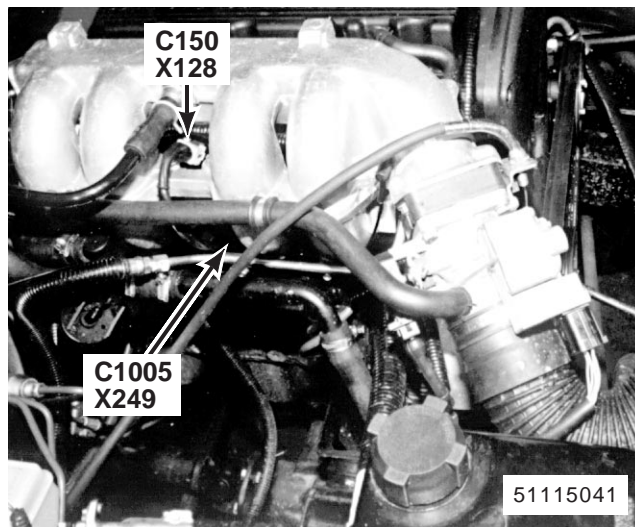
47. RH side of engine compartment  
Z272 Battery Backed Up Alarm Sounder  
C1031 (4-N)



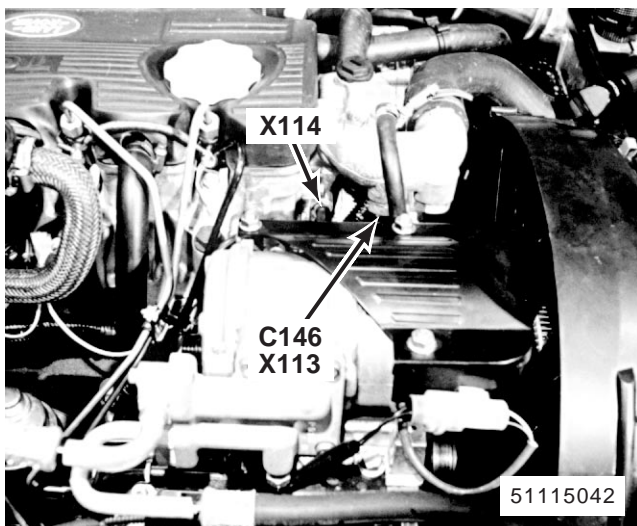
48. RH side of engine (MFI-V8)  
K107 Compressor Clutch  
C145 (2-W)



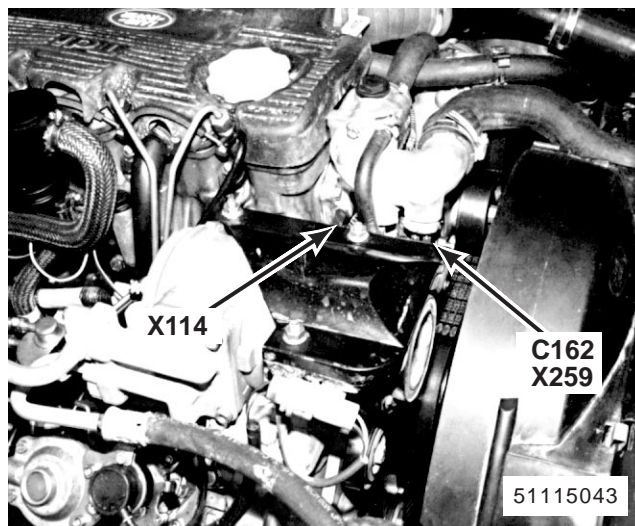
49. RH front of engine (MFI-T16)  
 M112 Idle Air Control Valve  
 X171 Throttle Position Sensor  
 C132 (6-B)  
 C149 (3-B)



50. RH side of engine (MFI-T16)  
 X128 Engine Fuel Temperature Sensor  
 X249 Knock Sensor  
 C150 (2-S)  
 C1005 (2-W)

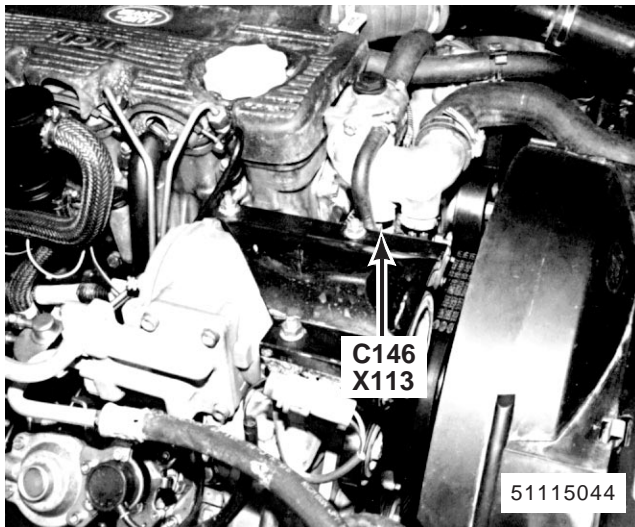


51. RH front of engine (300Tdi with EDC)  
 X113 Condenser Fan Coolant Temperature Switch  
 X114 Engine Coolant Temperature Gauge Sensor  
 C146 (2-B)

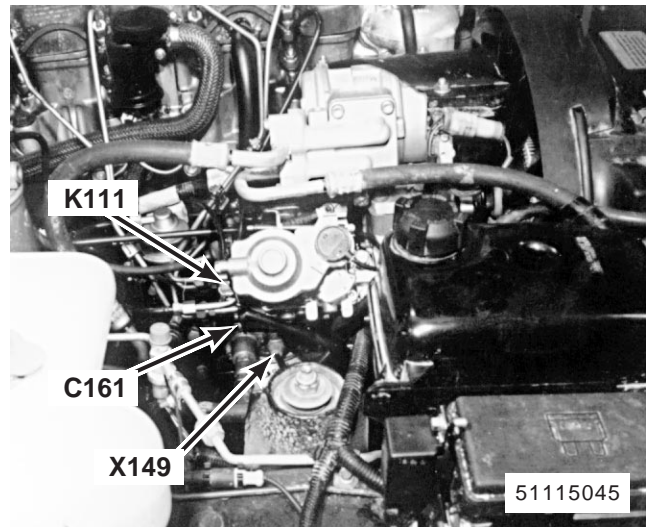


52. RH front of engine (300Tdi without EDC)  
 X114 Engine Coolant Temperature Gauge Sensor  
 X259 Compressor Clutch Cut-out Switch  
 C162 (2-B)

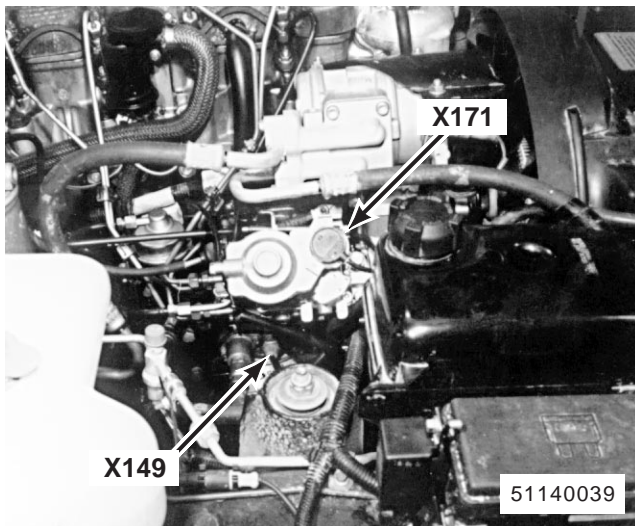




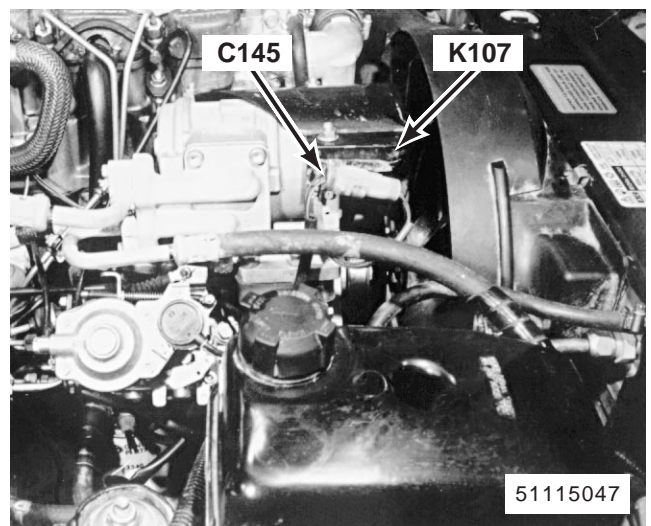
53. RH front of engine (300Tdi without EDC)  
 X113 Condenser Fan Coolant Temperature Switch  
 C146 (2-B)



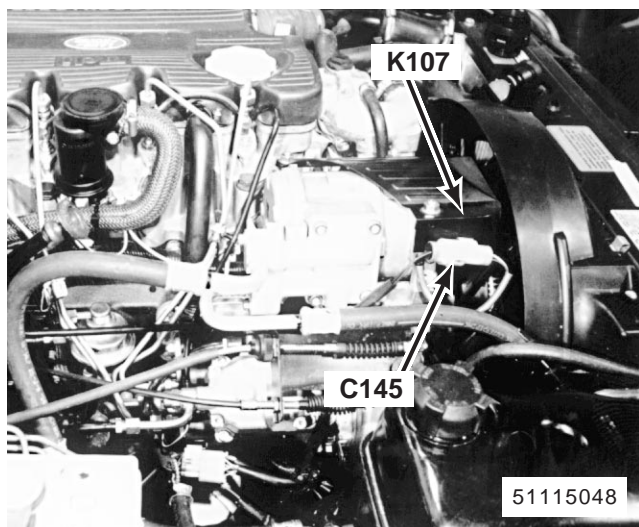
54. RH side of engine (300Tdi without EGR)  
 K111 Fuel Shut-Off Solenoid  
 X149 Oil Pressure Switch  
 C161 (1-W)



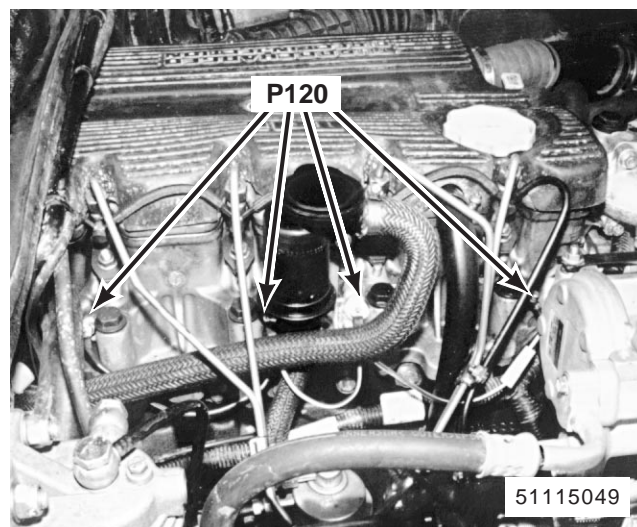
55. RH side of engine (300Tdi with EGR)  
 X149 Oil Pressure Switch  
 X171 Throttle Position Sensor



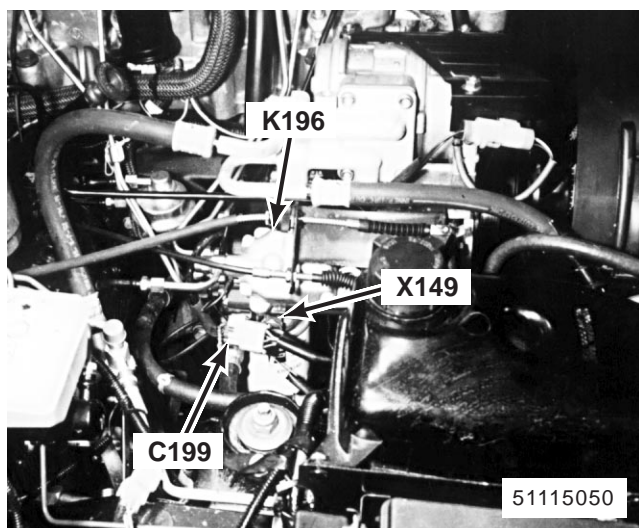
56. RH side of engine (300Tdi without EDC)  
 K107 Compressor Clutch  
 C145 (2-W)



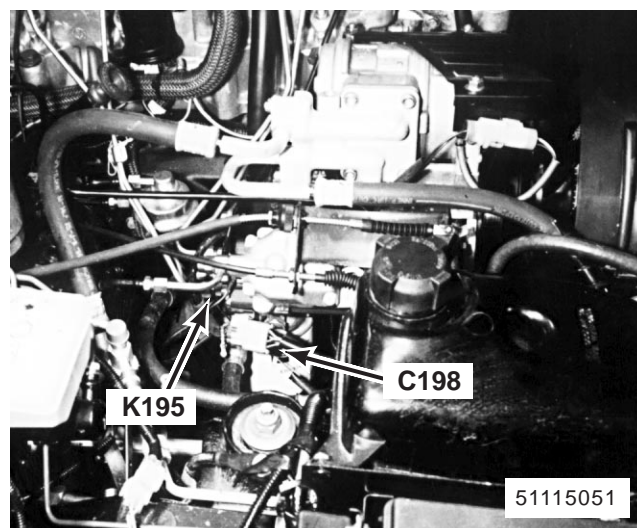
57. RH side of engine (300Tdi with EDC)  
K107 Compressor Clutch  
C145 (2-W)



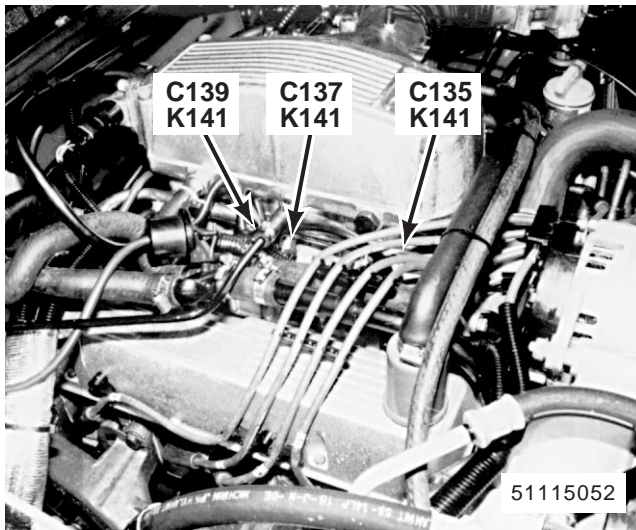
58. RH side of engine (300Tdi)  
P120 Glow Plugs



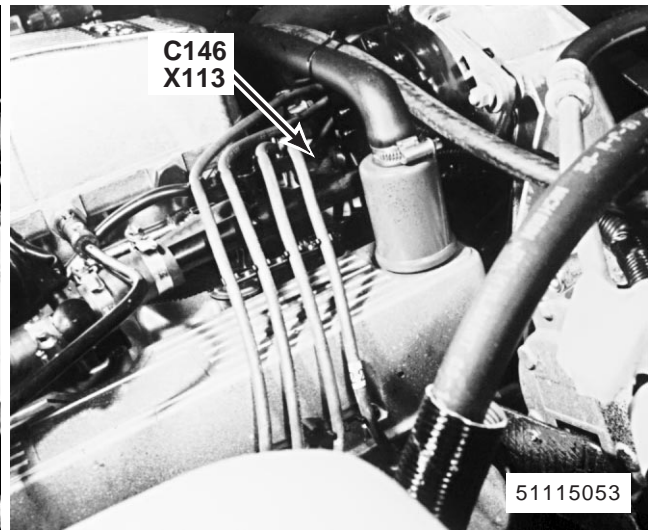
59. RH side of engine (300Tdi with EDC)  
K196 Fuel Pump Assembly  
X149 Oil Pressure Switch  
C199 (8-W)



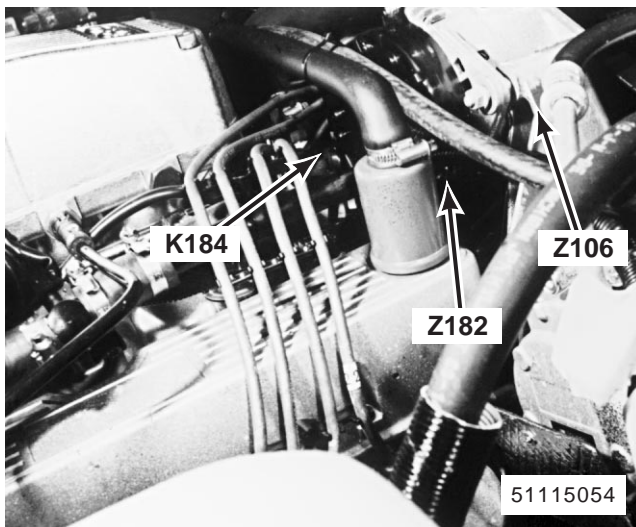
60. RH side of engine (300Tdi with EDC)  
K195 Fuel Injector Assembly  
C198 (3-W)



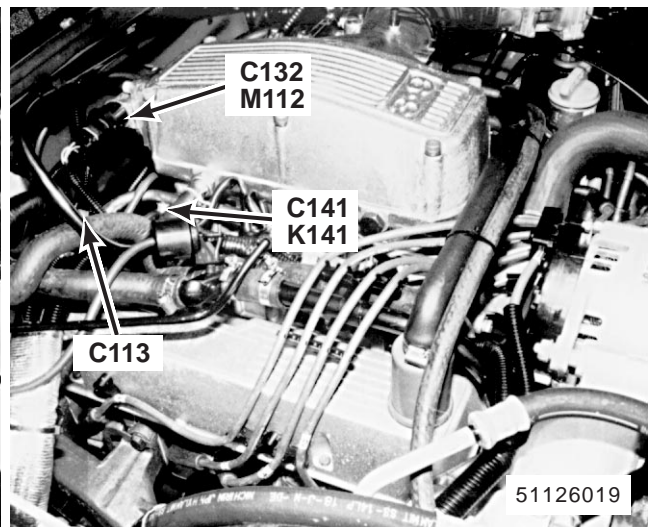
61. RH side of engine (MFI-V8)  
 K141 Fuel Injectors  
 C135 (2-B)  
 C137 (2-B)  
 C139 (2-B)



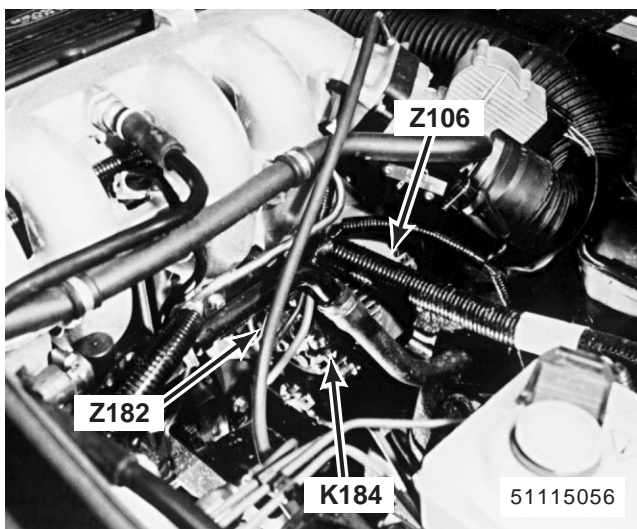
62. RH front of engine (MFI-V8)  
 X113 Condenser Fan Coolant Temperature Switch  
 C146 (2-B)



63. RH front of engine (MFI-V8)  
 K184 Phase Tap Resistor  
 Z106 Generator  
 Z182 Generator Suppression Capacitor



64. RH side of engine (MFI-V8)  
 K141 Fuel Injectors  
 M112 Idle Air Control Valve  
 C113 (3-W)  
 C132 (4-B)  
 C141 (2-B)

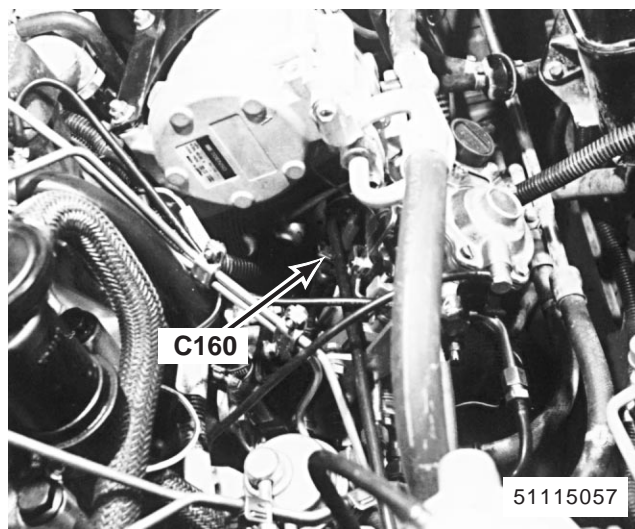


65. RH side of engine (MFI-T16 without Air Conditioning)

K184 Phase Tap Resistor

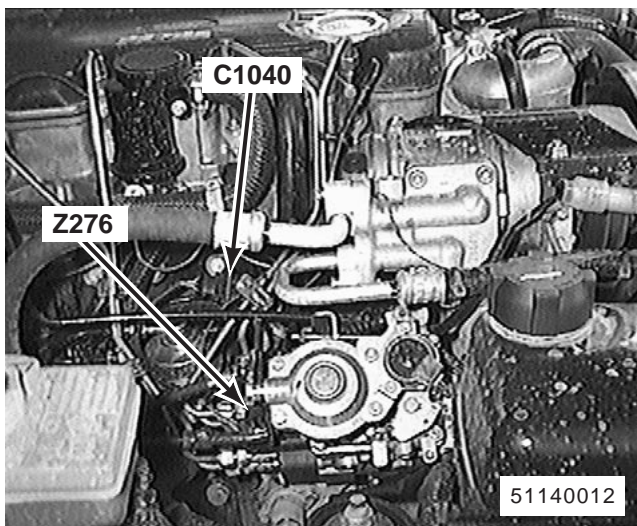
Z106 Generator

Z182 Generator Suppression Capacitor



66. RH side of engine (300Tdi with EGR)

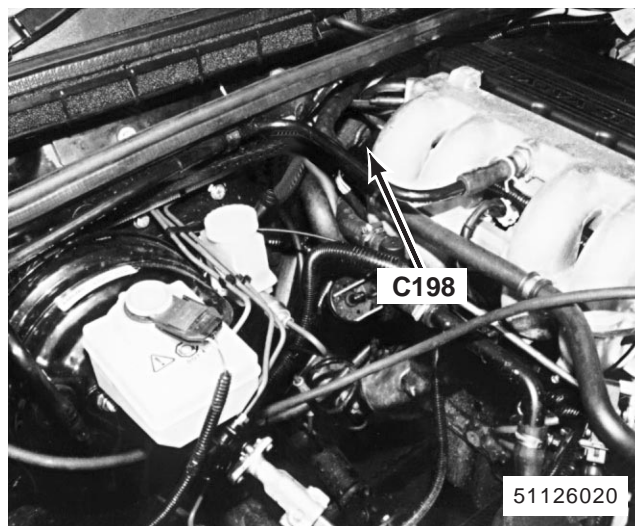
C160 (3-B)



67. RH side of engine (300Tdi with EGR)

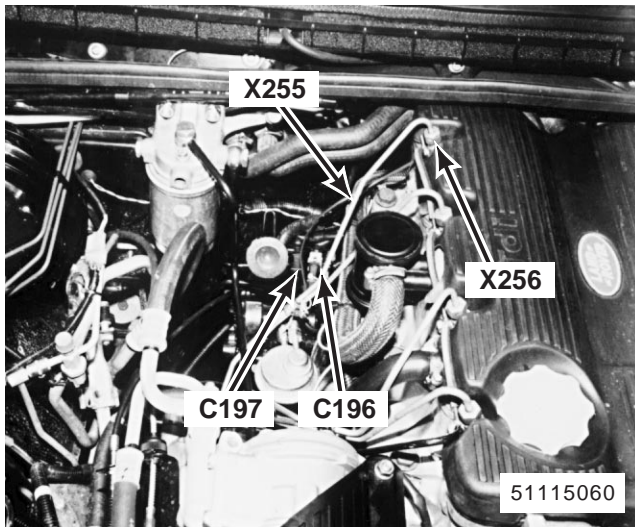
Z276 Diesel Immobilisation Unit (DDS)

C1040 (3-B)

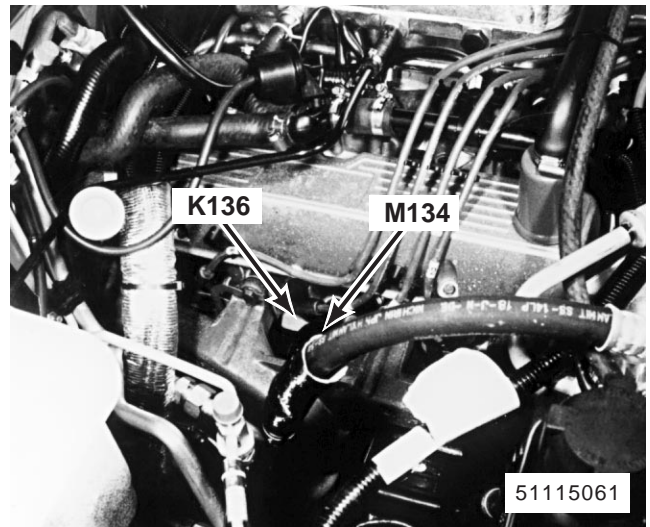


68. RH rear corner of engine compartment (MFI-T16)

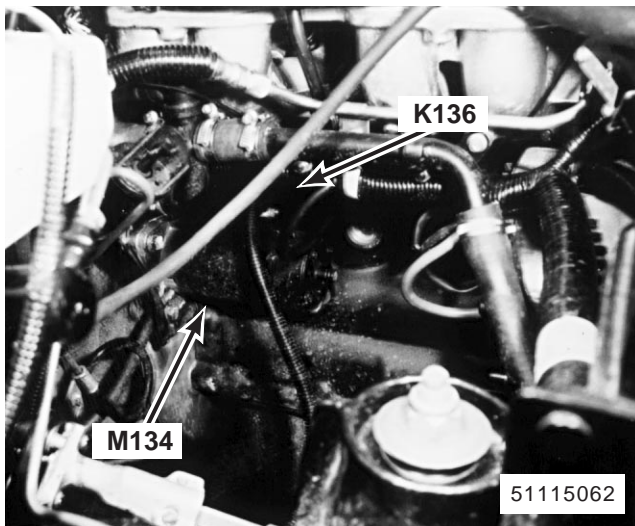
C198 (6-B)



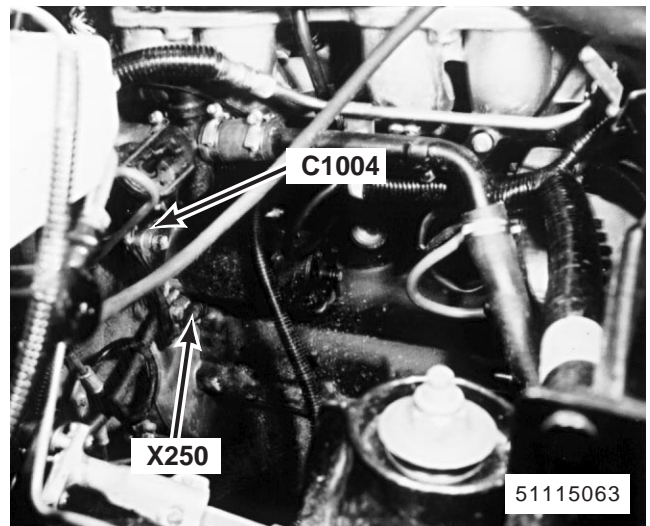
69. RH rear of engine (300Tdi with EDC)  
 X255 Engine Speed Sensor  
 X256 Injector Needle Lift Sensor  
 C196 (2-NU)  
 C197 (3-B)



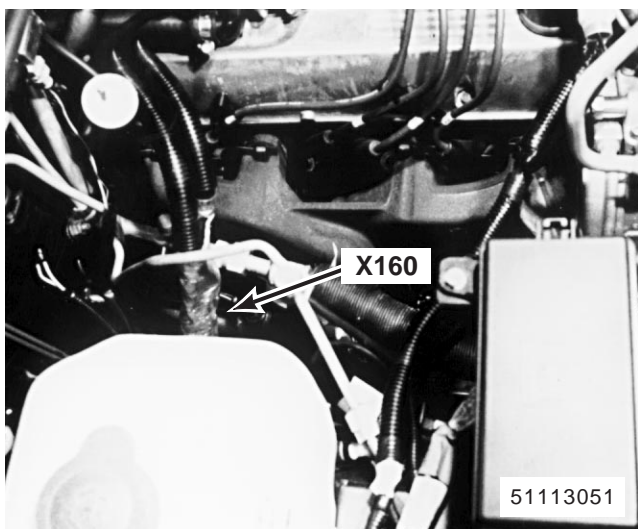
70. lower RH side of engine (MFI-V8)  
 K136 Starter Solenoid  
 M134 Starter



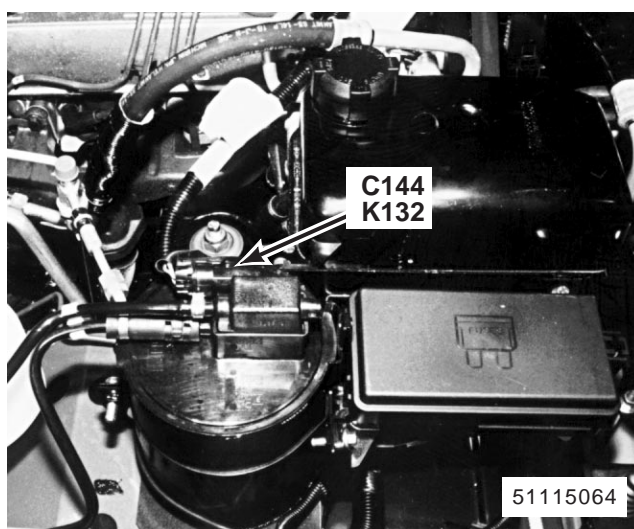
71. lower RH side of engine (MFI-T16)  
 K136 Starter Solenoid  
 M134 Starter



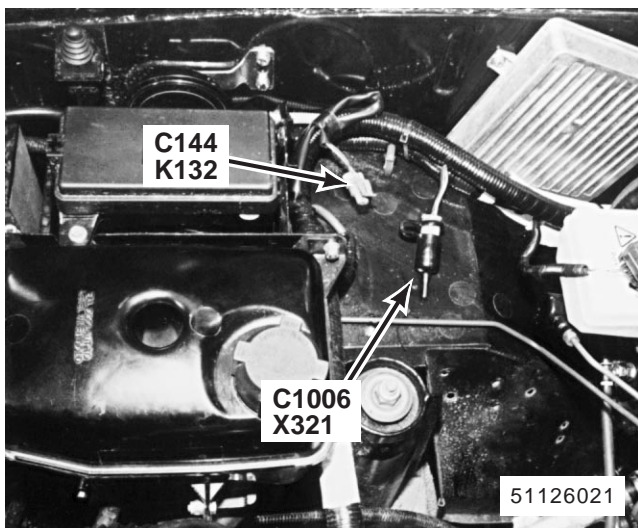
72. lower RH side of engine (MFI-T16)  
 X250 Crankshaft Position Sensor  
 C1004 (2-U)



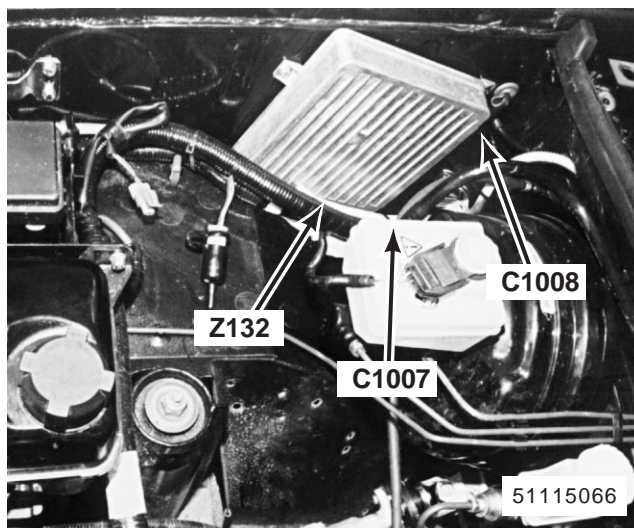
73. lower RH side of engine (MFI-V8)  
X160 Right Heated Oxygen Sensor



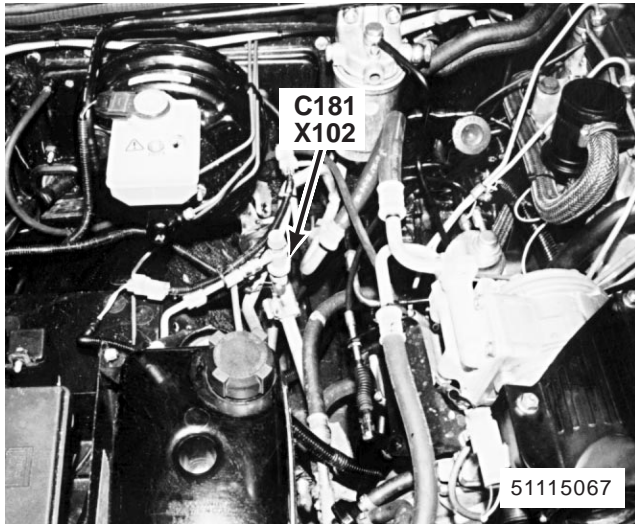
74. RH side of engine compartment (MFI-V8)  
K132 Evaporative Emission Canister Purge Valve  
C144 (2-B)



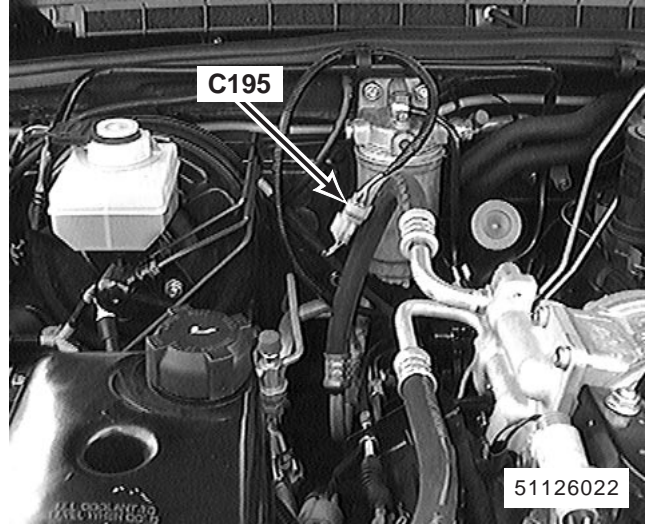
75. RH rear corner of engine compartment (MFI-T16)  
K132 Evaporative Emission Canister Purge Valve  
X321 Data Link Connector (MFI)  
C144 (2-B)  
C1006 (3-W)



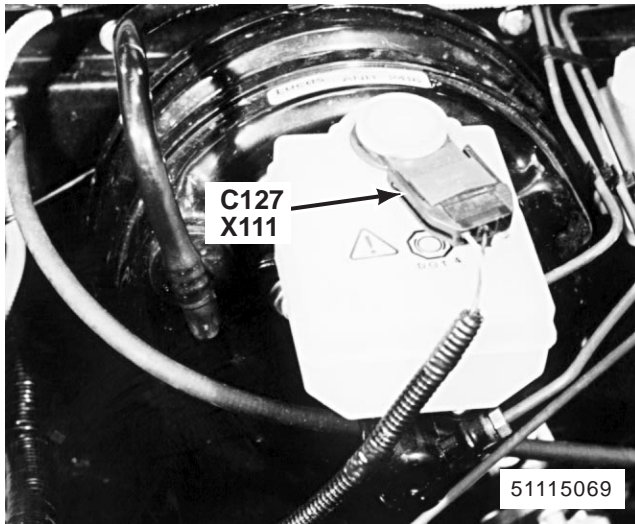
76. RH rear corner of engine compartment (MFI-T16)  
Z132 Engine Control Module (ECM)  
C1007 (36-B)  
C1008 (18-B)



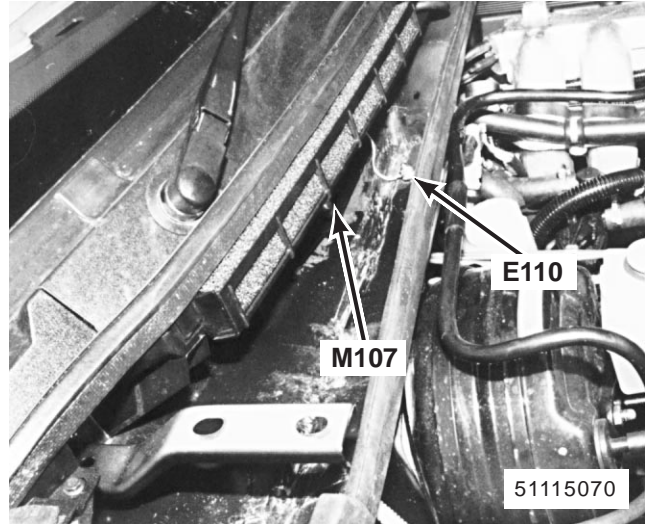
77. RH rear of engine compartment  
X102 A/C Dual Pressure Switch  
C181 (2-S)



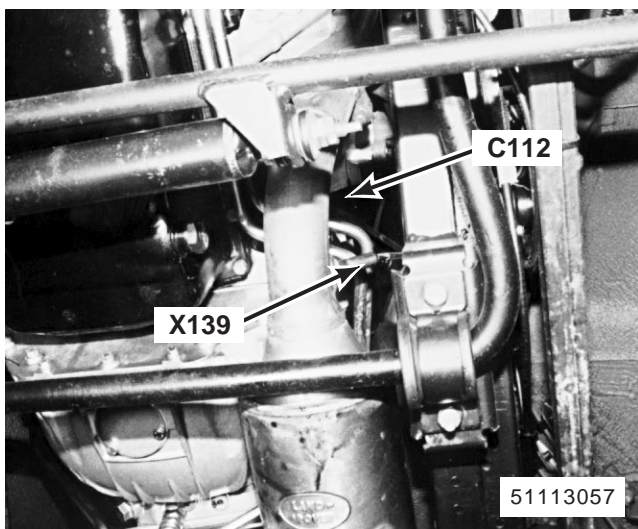
78. RH rear of engine compartment  
C195 (4-W)



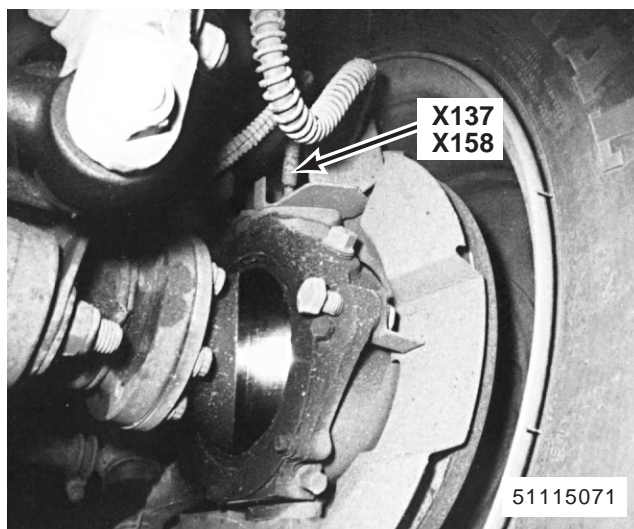
79. RH rear of engine compartment  
X111 Brake Fluid Level Switch  
C127 (3-B)



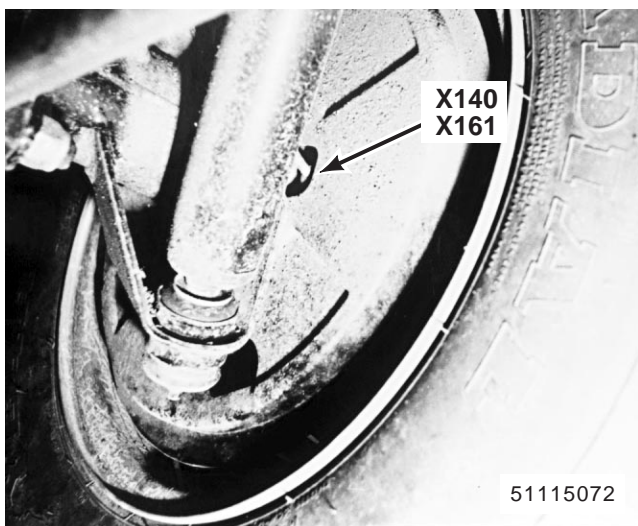
80. RH rear of engine compartment  
M107 Front Wiper Motor  
E110



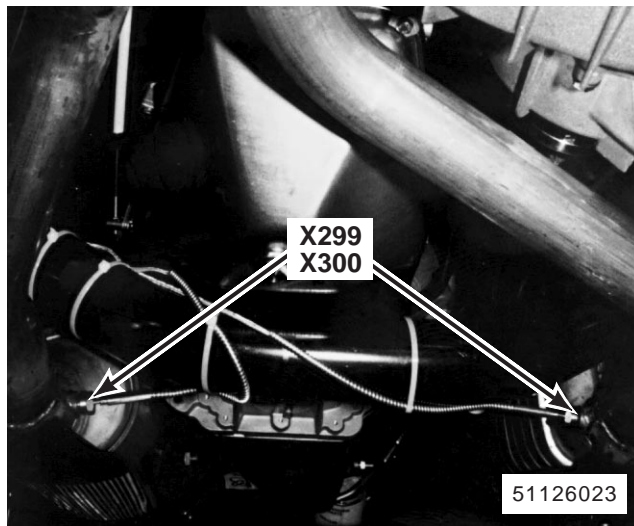
81. lower LH rear of engine compartment (MFI-V8)  
 X139 Left Heated Oxygen Sensor  
 C112 (3-W)



82. behind LH front wheel on handbrake lever (RH front wheel similar)  
 X137 Left Front Wheel Speed Sensor  
 X158 Right Front Wheel Speed Sensor

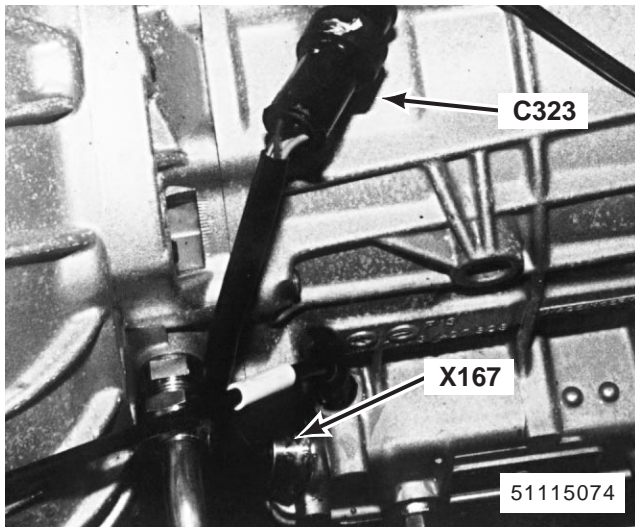


83. behind LH rear wheel (RH rear wheel similar)  
 X140 Left Rear Wheel Speed Sensor  
 X161 Right Rear Wheel Speed Sensor

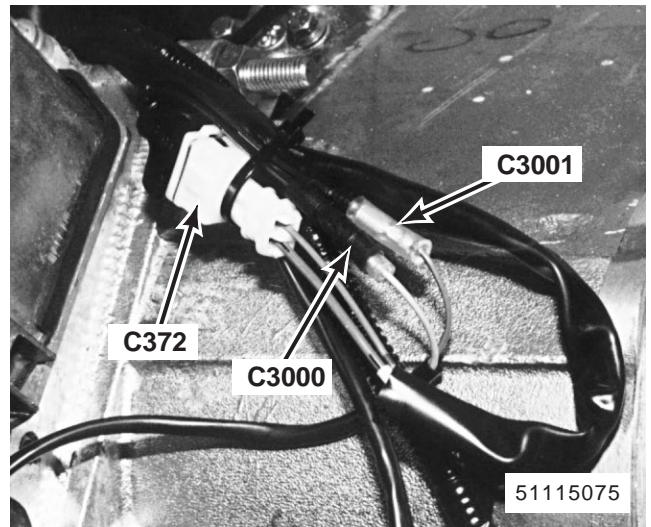


84. beneath centre of vehicle  
 X299 Catalyst Overheat Sensor 1  
 X300 Catalyst Overheat Sensor 2

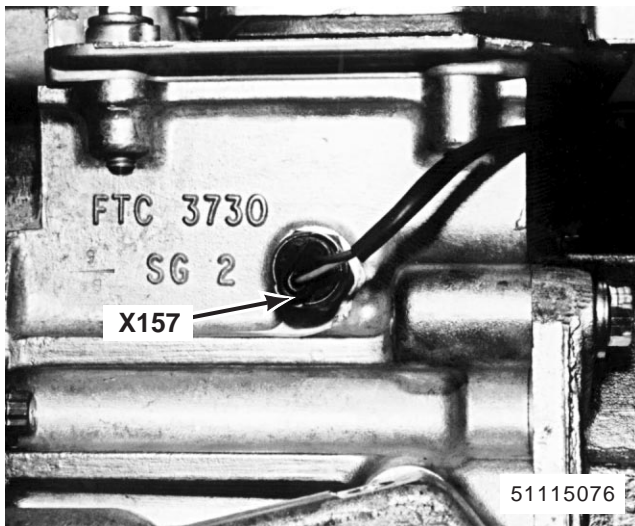




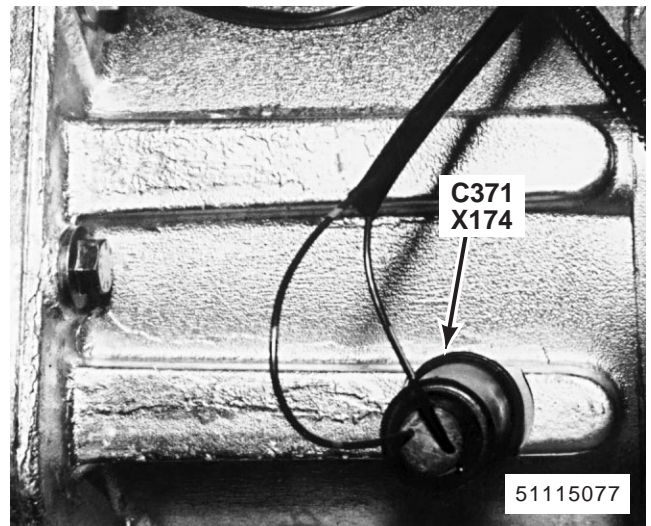
85. LH side of transmission  
X167 Park/Neutral Position Switch  
C323 (5-B)



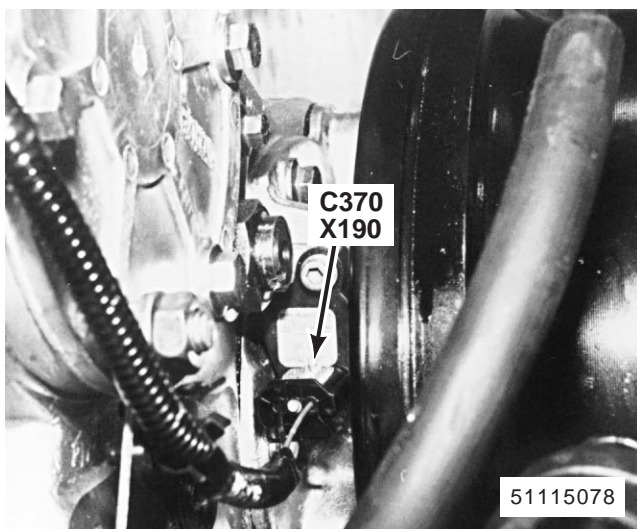
86. LH side of transmission  
C372 (2-B)  
C3000 (1-B)  
C3001 (1-B)



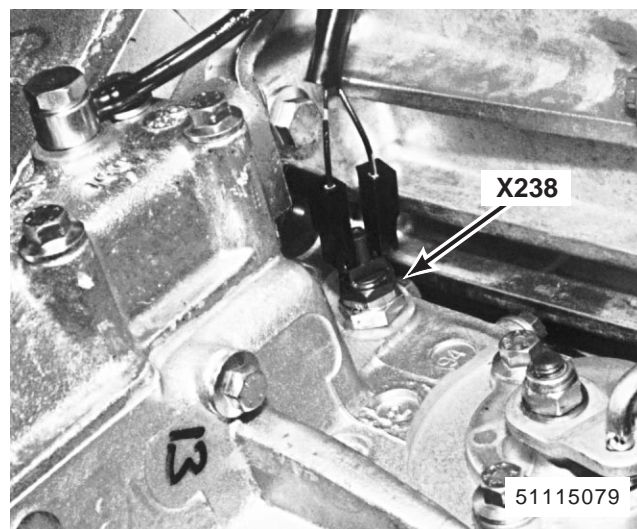
87. LH side of transmission  
X157 Reverse Switch



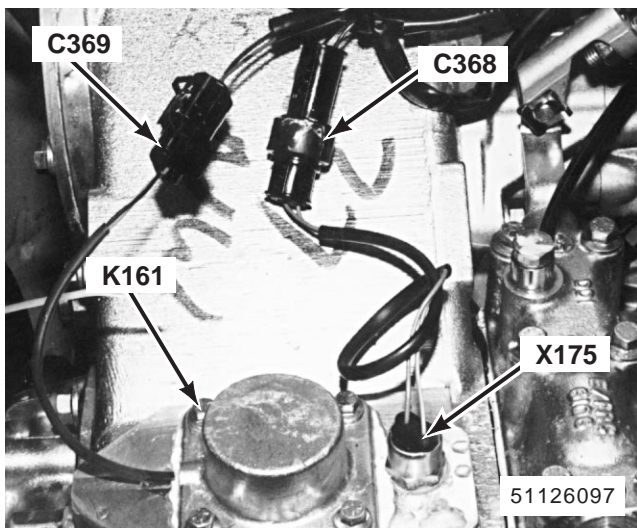
88. LH side of transfer box  
X174 Transfer Box Oil Temperature Switch  
C371 (2-B)



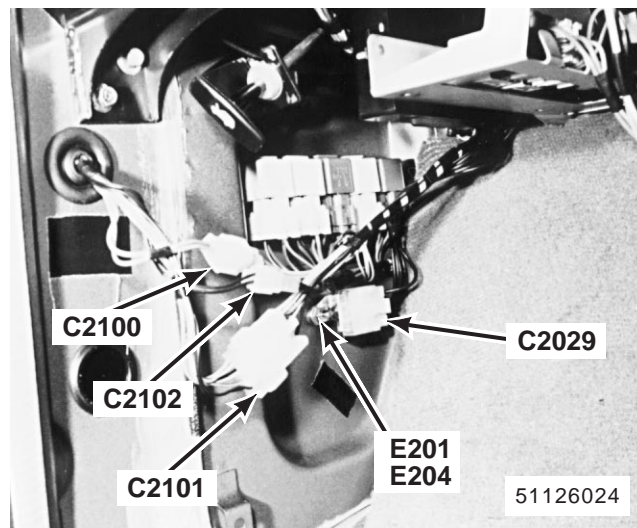
89. LH side of transfer box  
X190 Vehicle Speed Sensor  
C370 (3-B)



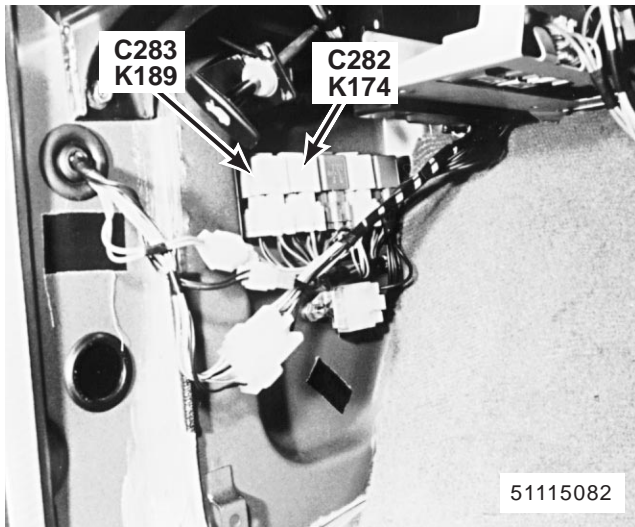
90. top RH side of transfer box  
X238 Differential Lock Switch



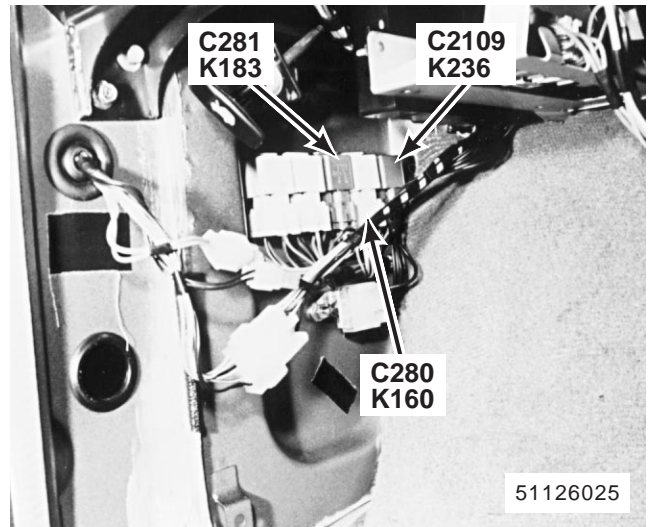
91. top RH side of transfer box  
K161 Transfer Box Solenoid  
X175 Transfer Box Position Switch  
C368 (3-B)  
C369 (2-B)



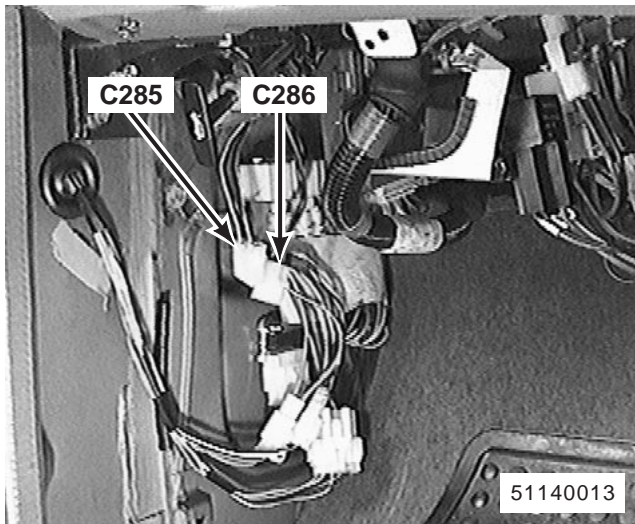
92. behind LH footwell trim panel  
C2029 (6-W)  
C2100 (2-W)  
C2101 (13-W)  
C2102 (2-W)  
E201  
E204



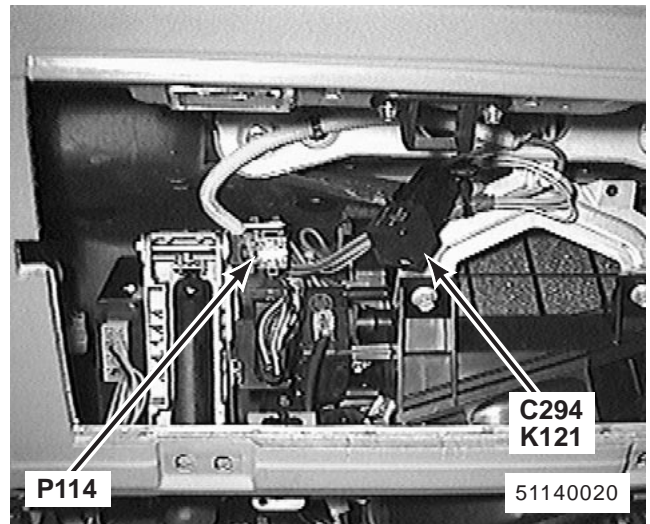
93. behind LH footwell trim panel  
 K174 Accessory Relay  
 K189 Horn Relay  
 C282 (5-Y)  
 C283 (5-Y)



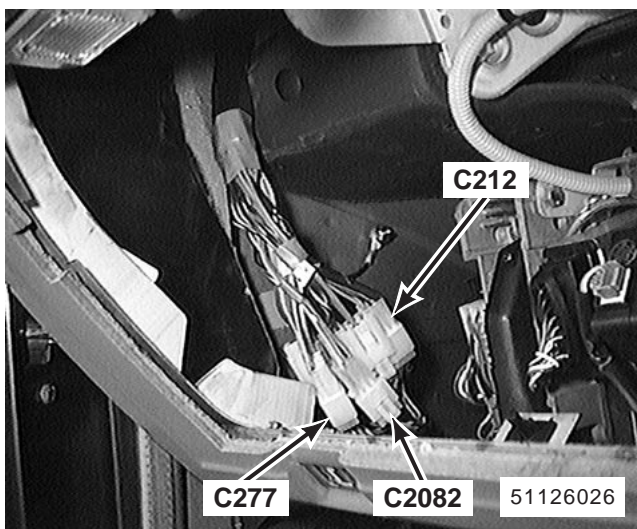
94. behind LH footwell trim panel  
 K160 Sounder Relay  
 K183 Rear Wiper Relay  
 K236 Dim/Dip Relay 2  
 C280 (5-W)  
 C281 (5-G)  
 C2109 (5-Y)



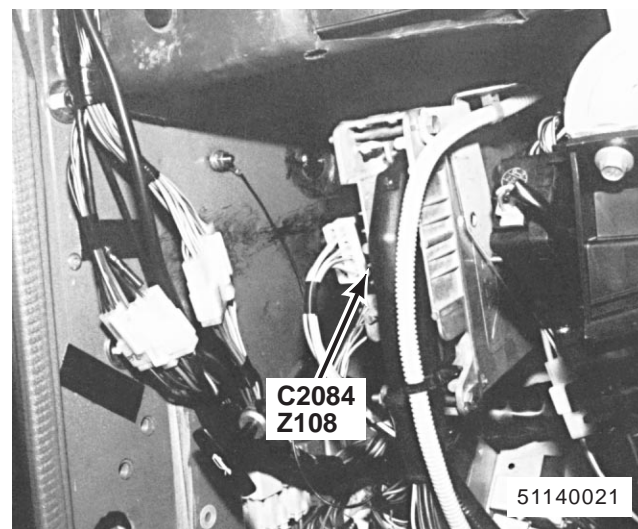
95. behind LH side of fascia  
 C285 (4-W)  
 C286 (4-W)



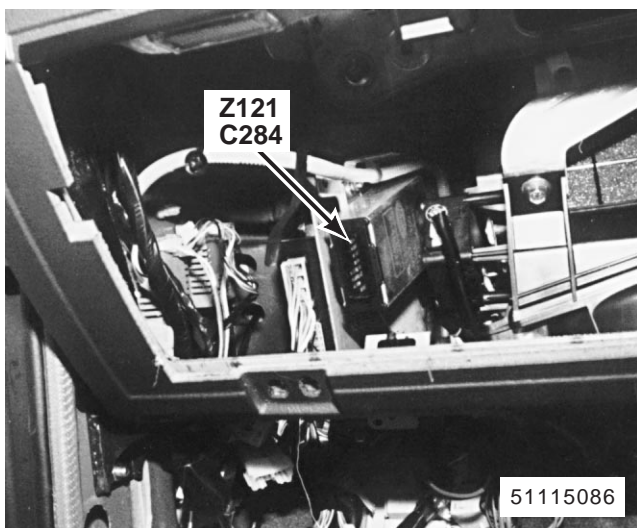
96. behind LH side of fascia  
 K121 Heated Front Screen Relay  
 P114 Heated Front Screen Fuse Block  
 C294 (4-W)



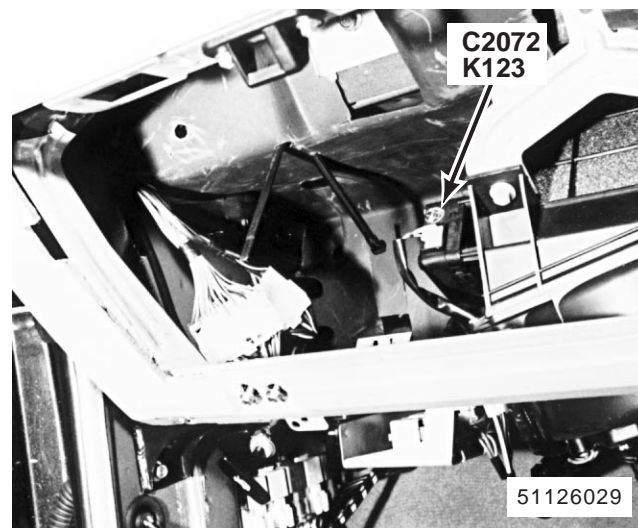
97. behind LH side of fascia  
 C212 (14-W)  
 C277 (23-W)  
 C2082 (6-W)



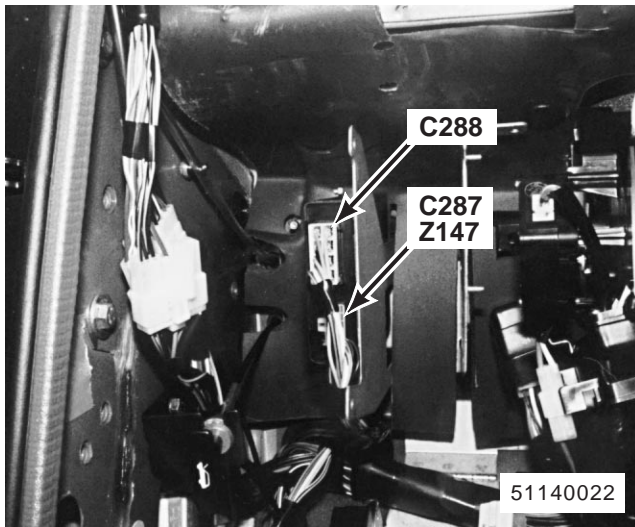
98. behind LH side of fascia  
 Z108 Anti-Lock Brake System ECU  
 C2084 (35-B)



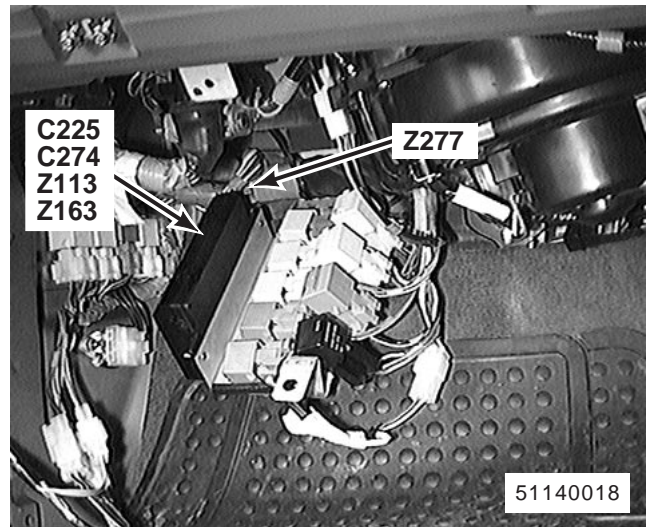
99. behind LH side of fascia  
 Z121 Cruise Control ECU  
 C284 (15-B)



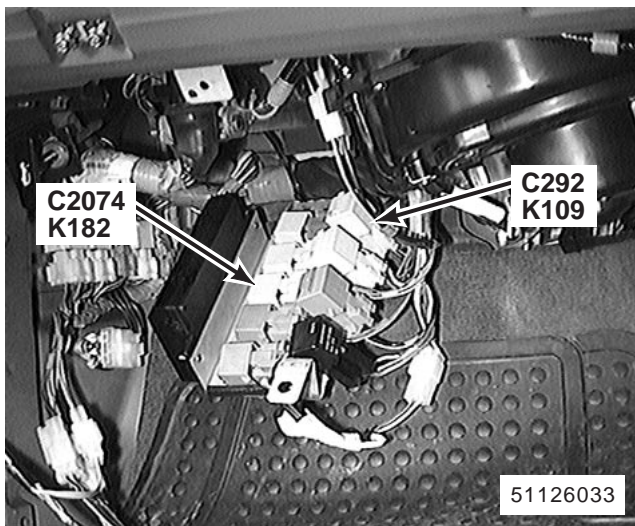
100. behind LH side of fascia  
 K123 Air Recirculation Solenoid  
 C2072 (4-Y)



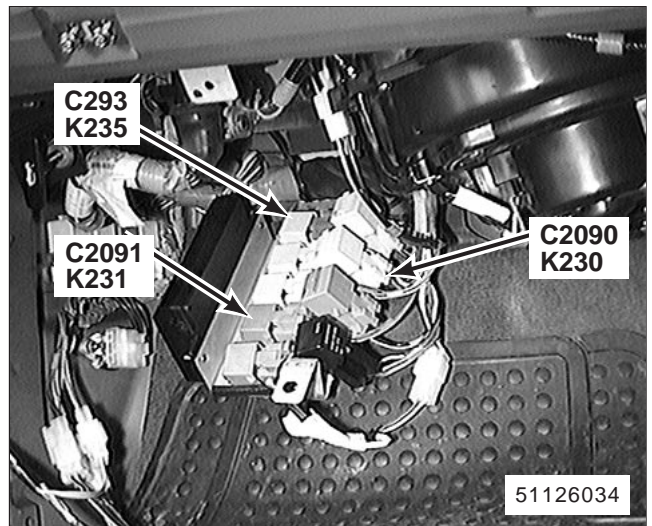
101. behind LH side of fascia  
 Z147 Window Lift ECU  
 C287 (10-W)  
 C288 (8-W)



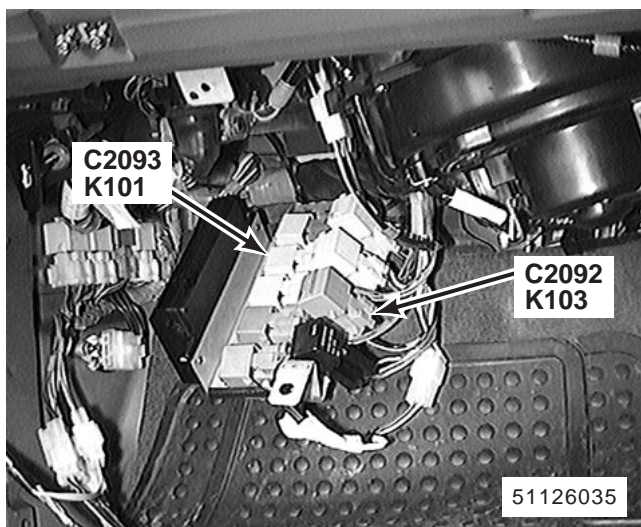
102. behind LH side of fascia  
 Z113 Central Locking Control Unit (Japan)  
 Z163 Theft Alarm Unit (Except Japan)  
 Z277 Tailgate Diode  
 C225 (26-S)  
 C274 (12-W)



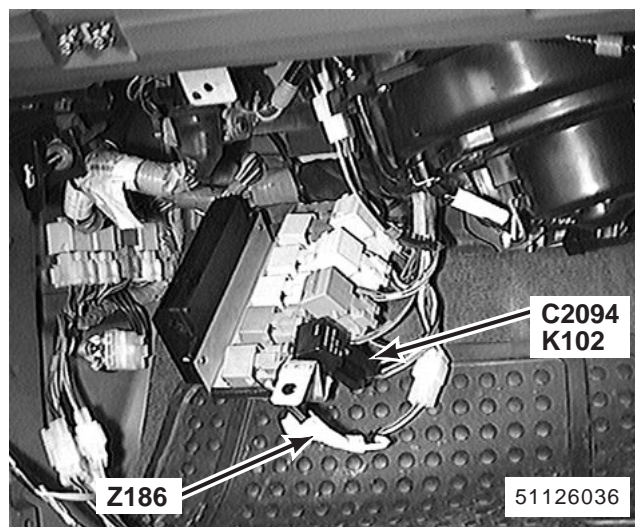
103. behind LH side of fascia (Automatic Transmission)  
 K109 Condenser Fan Relay  
 K182 Power Wash Relay  
 C292 (5-Y)  
 C2074 (5-Y)



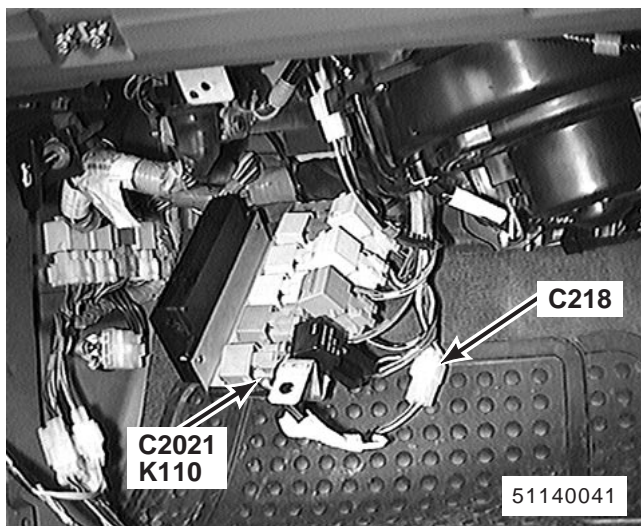
104. behind LH side of fascia (Automatic Transmission)  
 K230 Front Fog Lamps Relay  
 K231 Rear Fog Lamps Relay  
 K235 Dim/Dip Relay 1  
 C293 (5-U)  
 C2090 (5-Y)  
 C2091 (5-G)



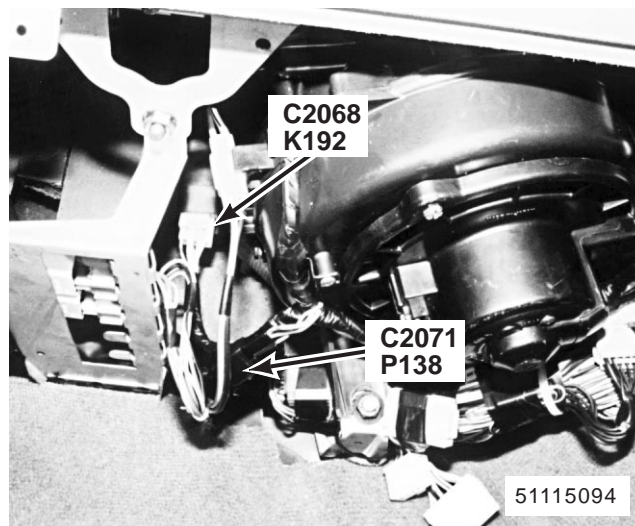
105. behind LH side of fascia (Automatic Transmission)  
 K101 A.B.S. Load Relay  
 K103 A.B.S. Warning Relay  
 C2092 (5-G)  
 C2093 (5-Y)



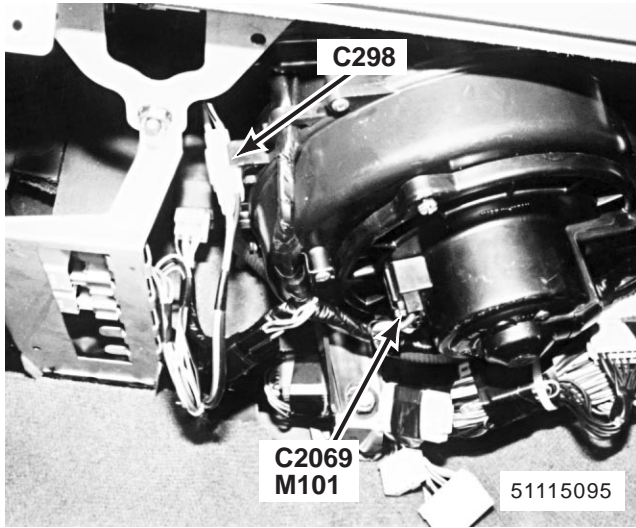
106. behind LH side of fascia (Automatic Transmission)  
 K102 A.B.S. Pump Relay  
 Z186 Cruise Control Diode  
 C2094 (4-B)



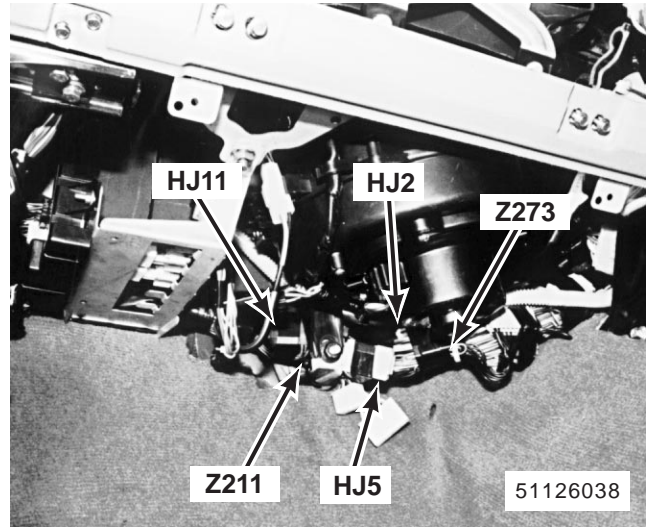
107. behind LH side of fascia (Automatic Transmission)  
 K110 Cruise Control Lockout Relay  
 C218 (8-W)  
 C2021 (5-G)



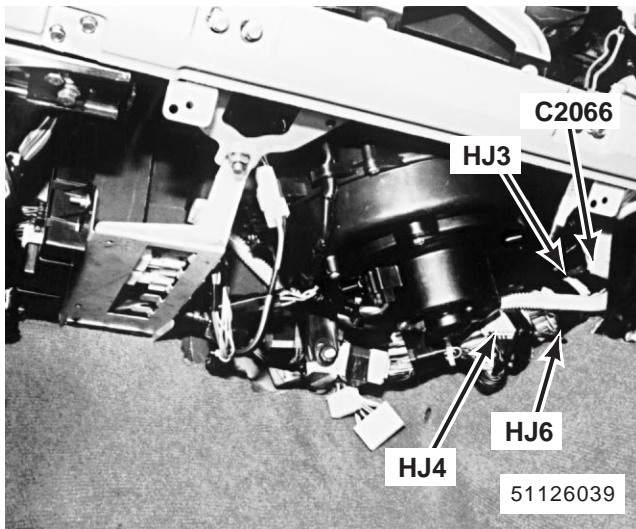
108. behind LH side of fascia  
 K192 Front Blower Motor Relay  
 P138 Air Recirculation Solenoid In-Line Fuse  
 C2068 (5-W)  
 C2071 (2-B)



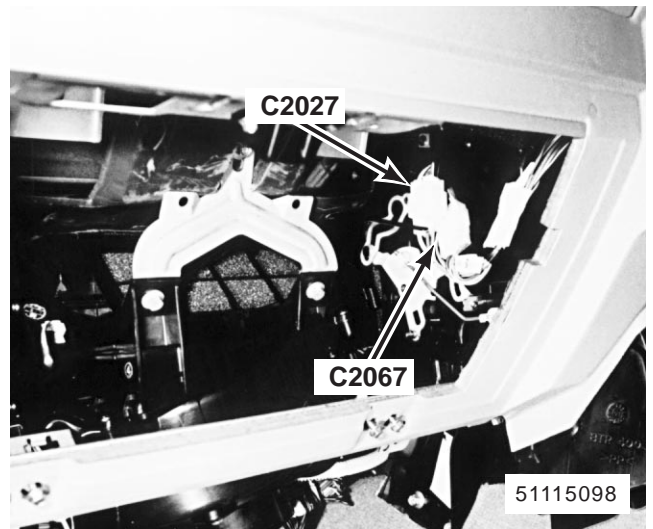
109. behind LH side of fascia  
 M101 Front Blower Motor  
 C298 (3-W)  
 C2069 (2-B)



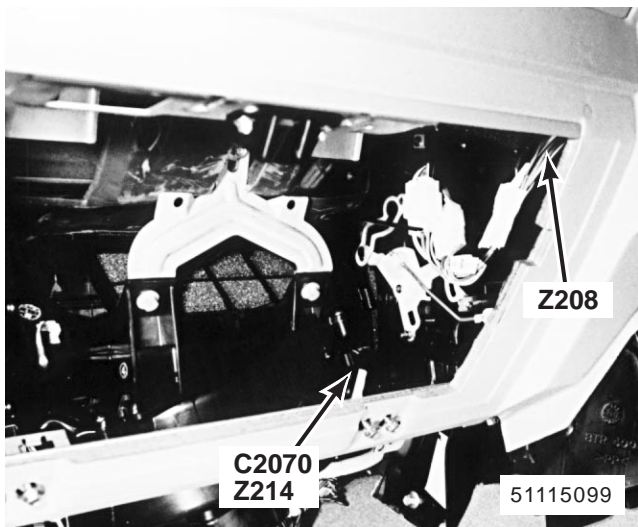
110. behind LH side of fascia  
 Z211 Fan Timer Diode  
 Z273 Neutral Sense Diode  
 HJ2 (20-U)  
 HJ5 (20-S)  
 HJ11 (20-S)



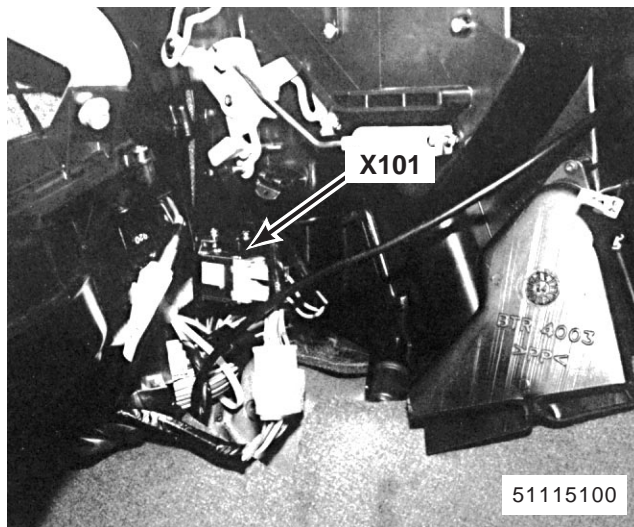
111. behind LH side of fascia  
 C2066 (8-W)  
 HJ3 (20-S)  
 HJ4 (20-S)  
 HJ6 (20-G)



112. behind LH side of fascia  
 C2027 (5-W)  
 C2067 (10-W)



113. behind LH side of fascia  
 Z208 Air Supply Selector Diode  
 Z214 Front Blower Resistor Unit  
 C2070 (4-B)



114. LH side of heater evaporator unit  
 X101 Front A/C Evaporator Temperature Switch

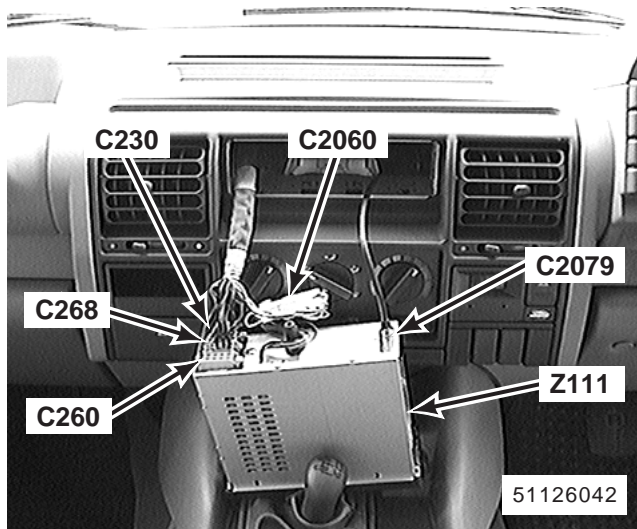


115. centre of fascia  
 X220 Hazard Switch  
 Z117 Clock  
 C267 (10-W)  
 C270 (4-B)



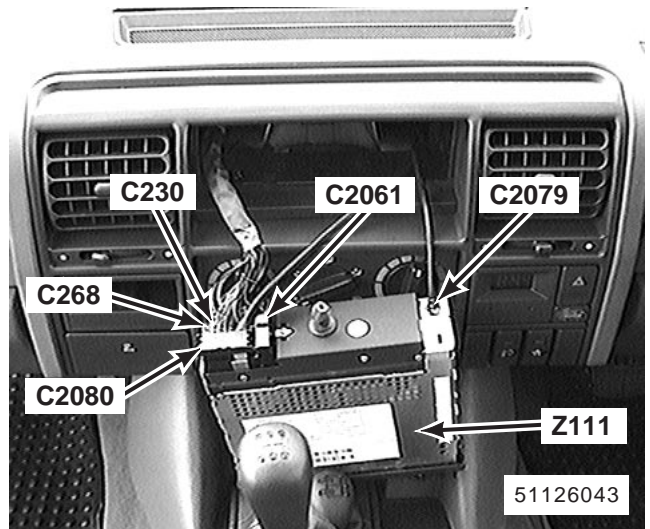
116. centre of fascia  
 X115 Cruise Control Switch  
 X270 Front Fog Lamps Switch  
 C262 (5-U)  
 C2098 (5-G)





117. centre of fascia (Low Line Radio) (Mid Line Radio)

- Z111 Radio
- C230 (8-S)
- C260 (10-R)
- C268 (8-N)
- C2060 (5-W)
- C2079 (2-B)



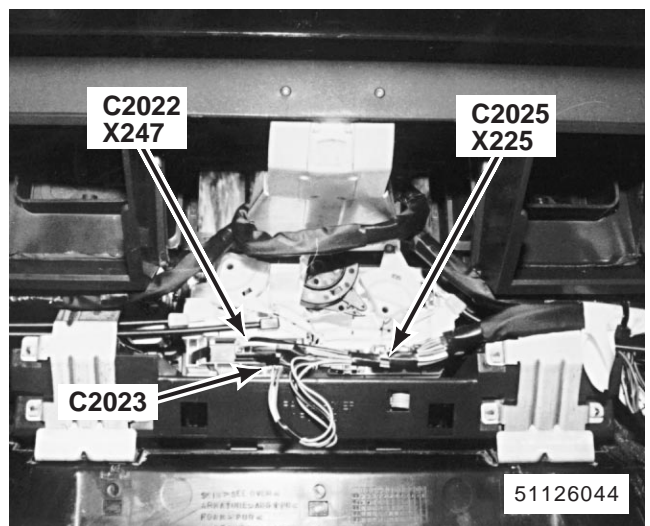
118. centre of fascia (High Line Radio)

- Z111 Radio
- C230 (8-S)
- C268 (8-N)
- C2061 (7-B)
- C2079 (2-B)
- C2080 DIN CABLE



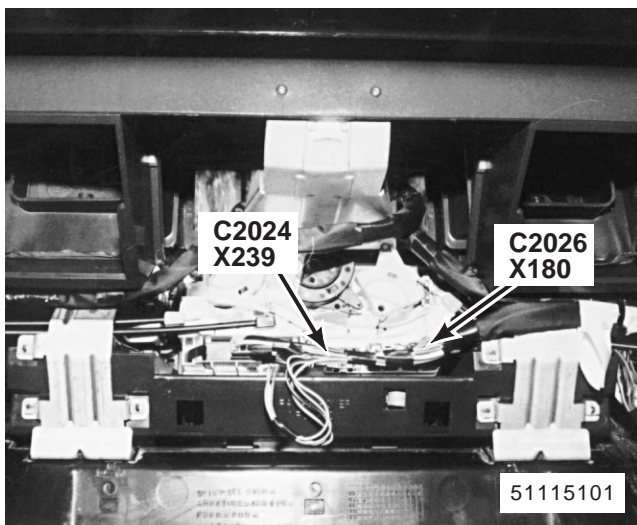
119. behind centre of fascia

- Z271 Engine Immobilisation Control Unit (Spider)
- C2095 (9-B)

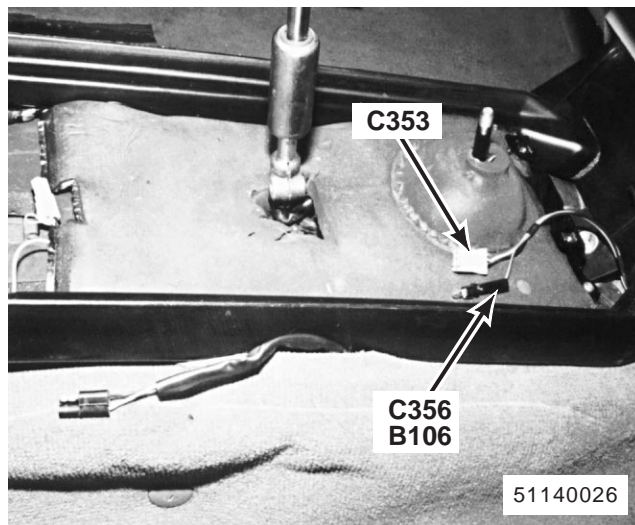


120. behind heater and A/C control panel

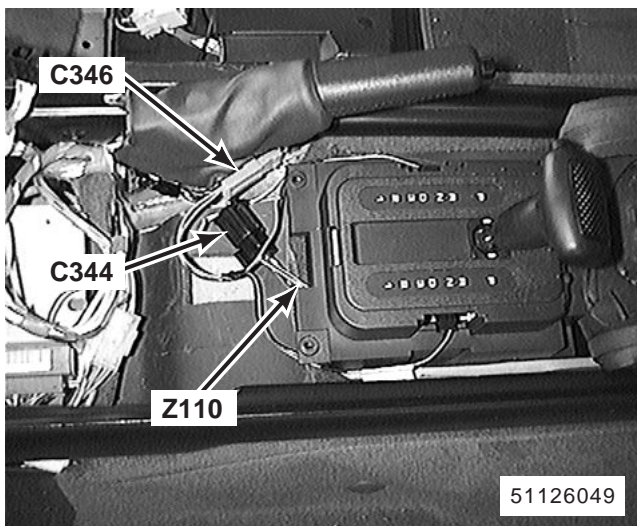
- X225 Front A/C Switch
- X247 Front Fan Speed Switch
- C2022 (5-W)
- C2023 (4-W)
- C2025 (5-W)



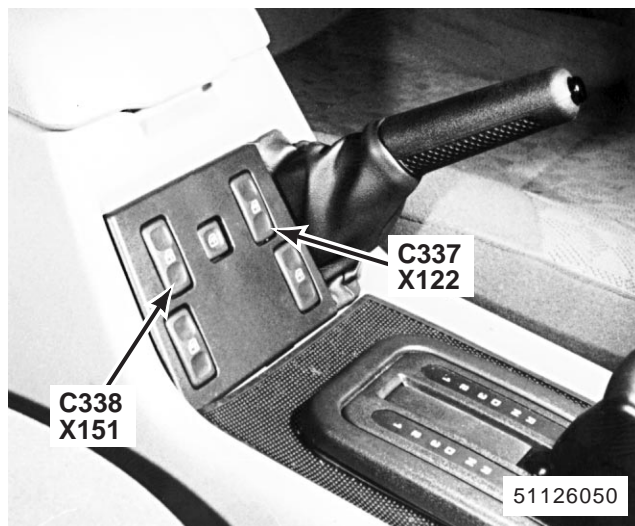
121. behind heater and A/C control panel  
 X180 Air Supply Selector Switch  
 X239 Main Rear A/C Switch  
 C2024 (5-U)  
 C2026 (5-B)



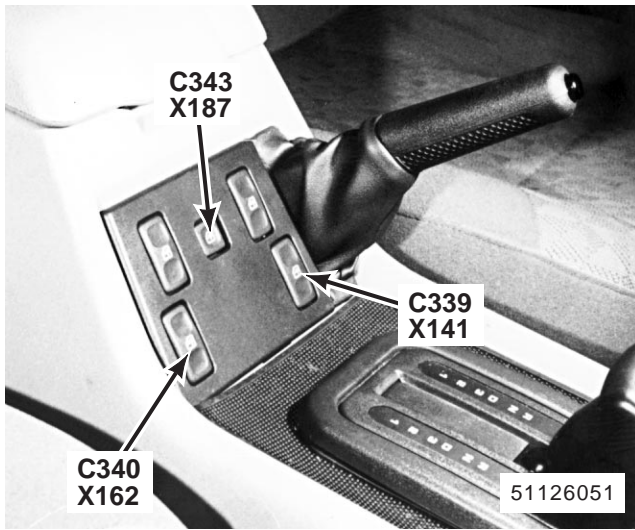
122. beneath centre console  
 B106 Fascia Cigar Lighter  
 C353 (2-W)  
 C356 (1-B)



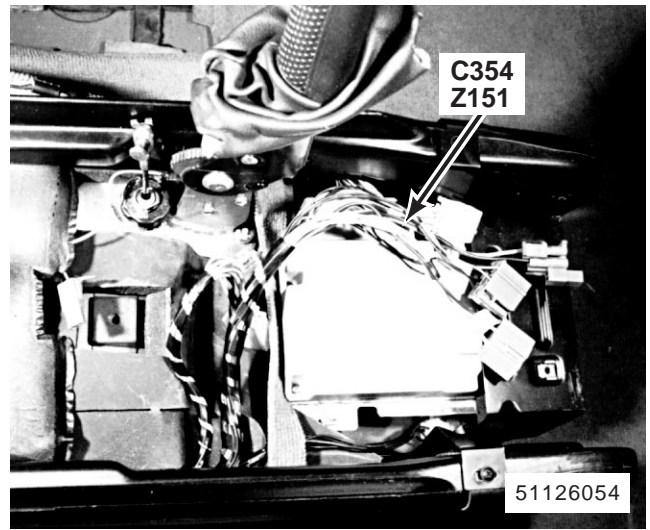
123. beneath centre console  
 Z110 Transmission Range Selector Switch  
 C344 (6-B)  
 C346 (2-U)



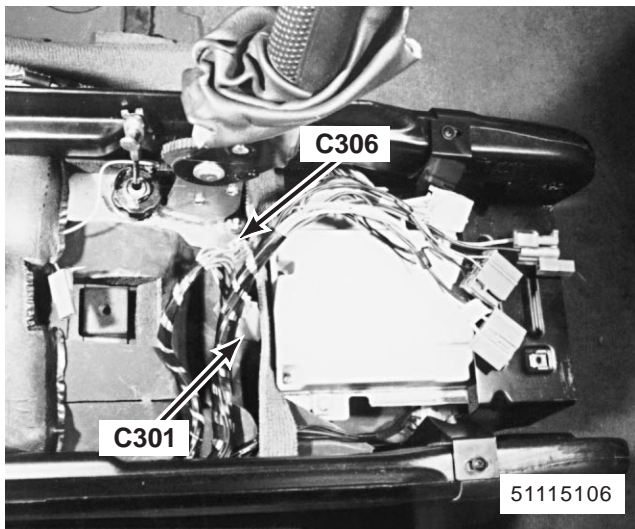
124. in rear of centre console  
 X122 Left Front Window Switch  
 X151 Right Front Window Switch  
 C337 (7-W)  
 C338 (7-G)



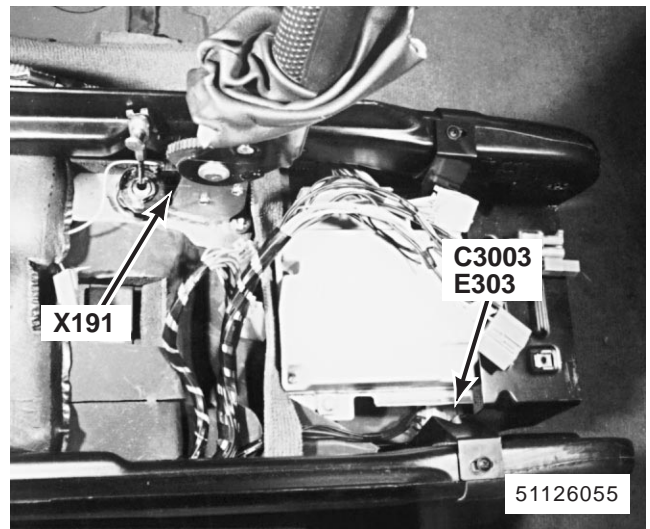
125. in rear of centre console  
 X141 Left Rear Window Console Switch  
 X162 Right Rear Window Console Switch  
 X187 Rear Window Isolation Switch  
 C339 (7-Y)  
 C340 (7-R)  
 C343 (7-N)



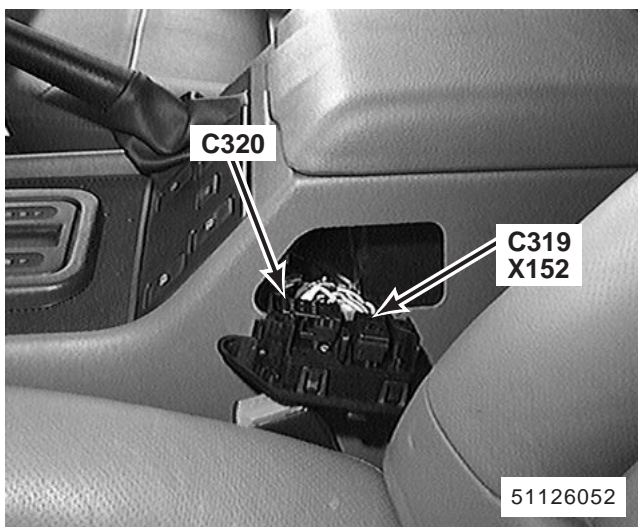
126. beneath centre console  
 Z151 Air Bag Diagnostic Control Module  
 C354 (29-R)



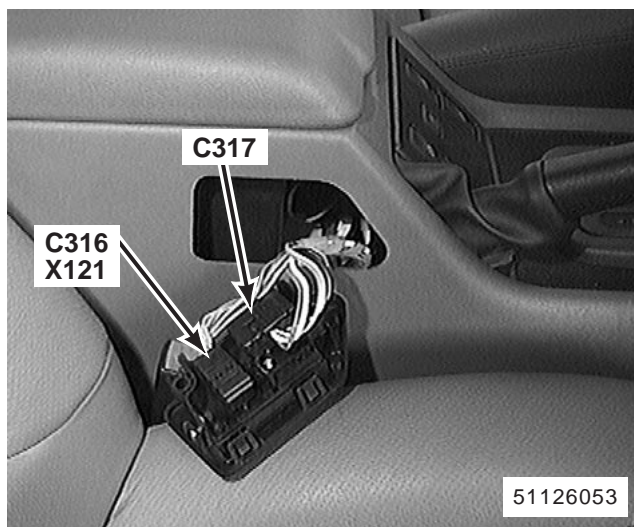
127. beneath centre console  
 C301 (6-W)  
 C306 (3-W)



128. beneath centre console  
 X191 Handbrake Switch  
 C3003 (6-W)  
 E303



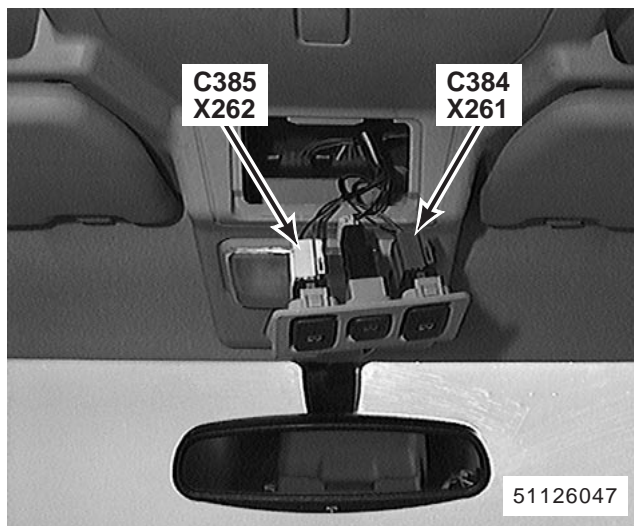
129. LH side of centre console  
 X152 Left Front Seat Control Switch  
 C319 (6-B)  
 C320 (6-B)



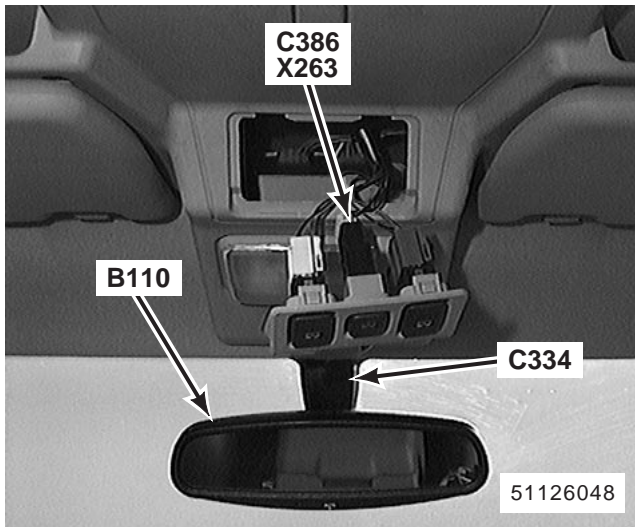
130. RH side of centre console  
 X121 Right Front Seat Control Switch  
 C316 (6-B)  
 C317 (6-B)



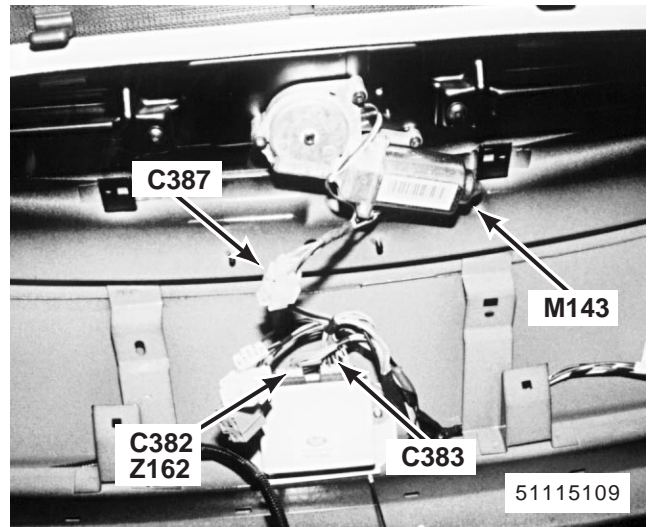
131. front centre of roof  
 B107 Front Interior Roof Lamp  
 C350 (3-W)



132. front centre of roof  
 X261 Front Sunroof Switch  
 X262 Rear Sunroof Switch  
 C384 (7-G)  
 C385 (7-W)



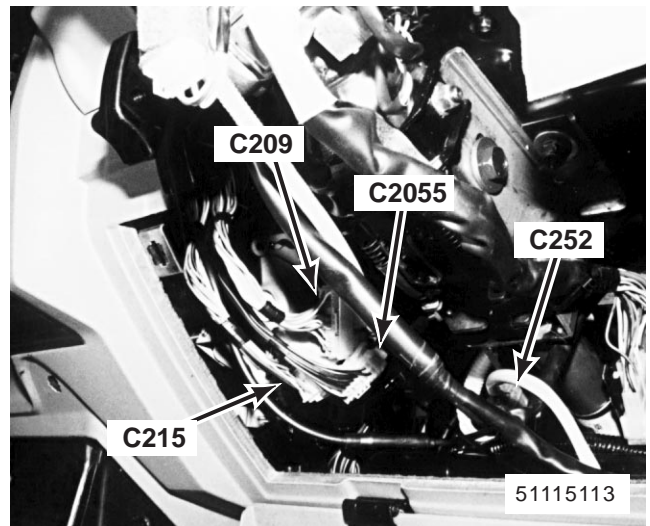
133. front centre of roof  
 B110 Electrochromic Rear View Mirror  
 X263 Rear Sunroof Lockout Switch  
 C334 (3-B)  
 C386 (5-S)



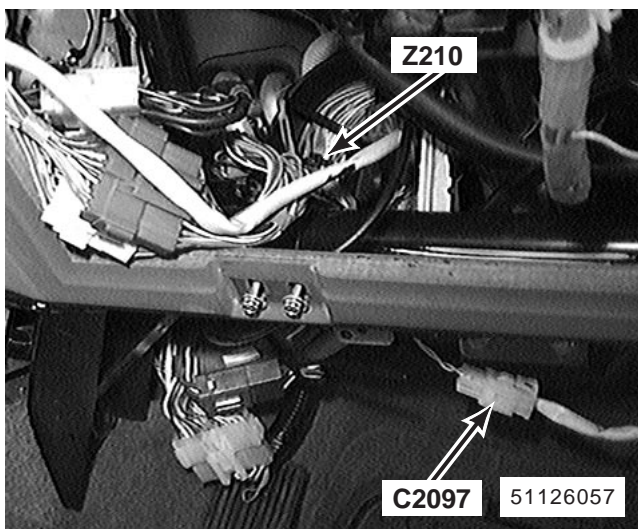
134. front centre of roof  
 Z162 Sunroof Control Unit  
 M143 Front Sunroof Motor  
 C382 (8-W)  
 C383 (10-W)  
 C387 (4-W)



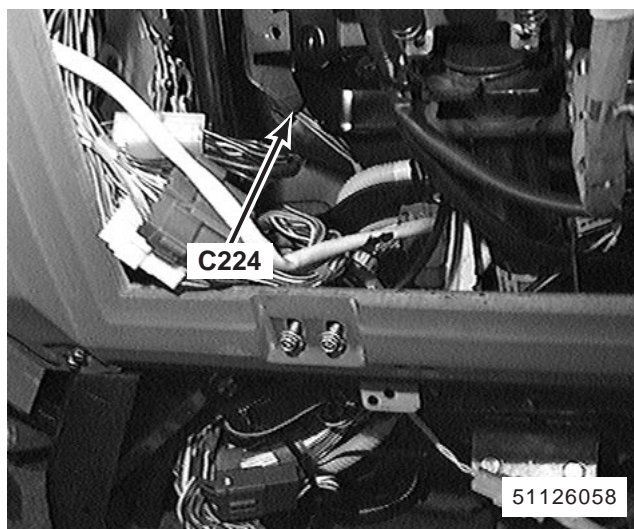
135. behind RH side of fascia left of steering column  
 X318 Data Link Connector (OBDII)  
 C2083 (16-S)



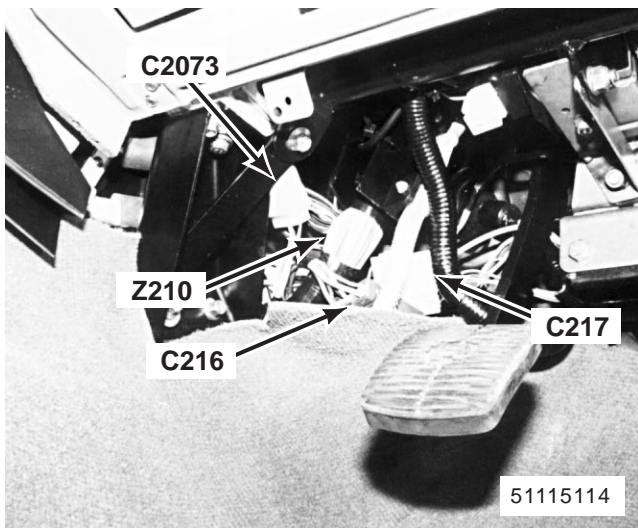
136. behind RH side of fascia left of steering column  
 C209 (20-R)  
 C215 (24-Y)  
 C252 (6-R)  
 C2055 (13-W)



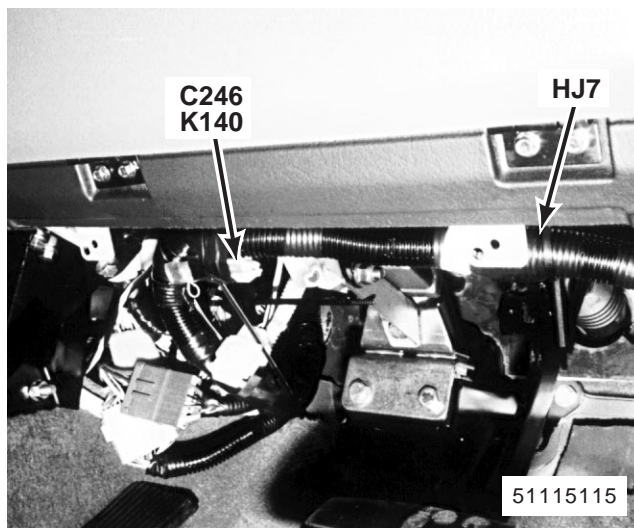
137. behind RH side of fascia left of steering column  
 Z210 Condenser Fan Control Diode 2  
 C2097 (4-W)



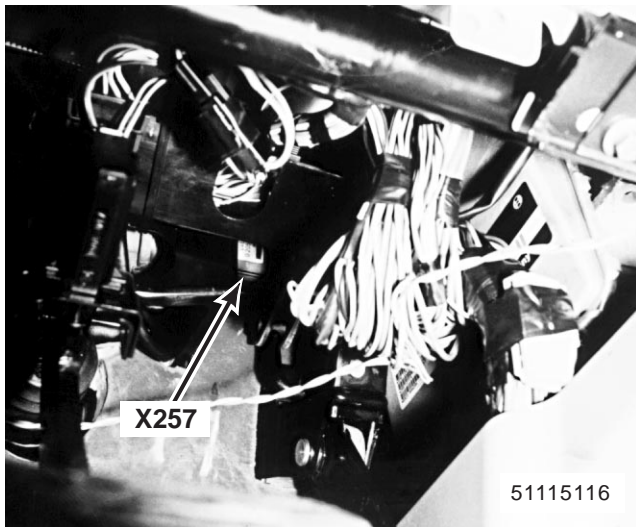
138. behind RH side of fascia left of steering column  
 C224 (6-W)



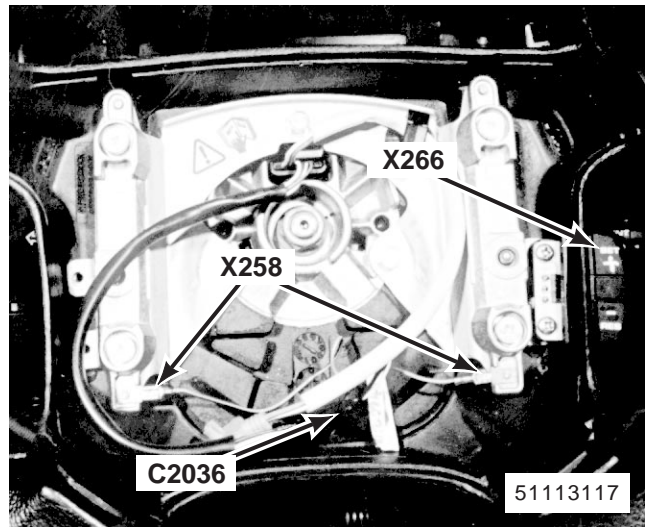
139. behind RH side of fascia right of heater evaporator unit  
 Z210 Condenser Fan Control Diode 2  
 C216 (7-N)  
 C217 (24-W)  
 C2073 (10-W)



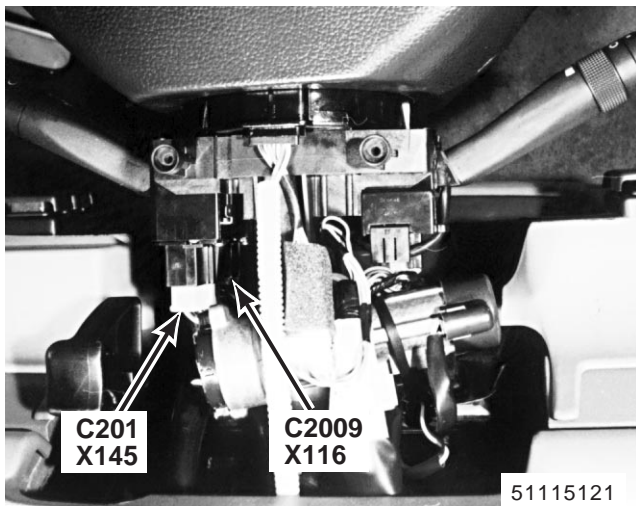
140. behind RH side of fascia  
 K140 Tune Select Resistor  
 C246 (2-U)  
 HJ7 (20-U)



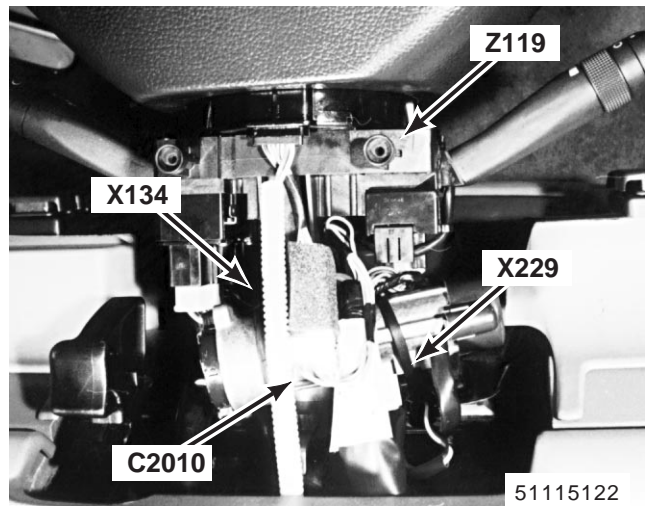
141. behind RH side of fascia right of steering column  
X257 Throttle Position Sensor



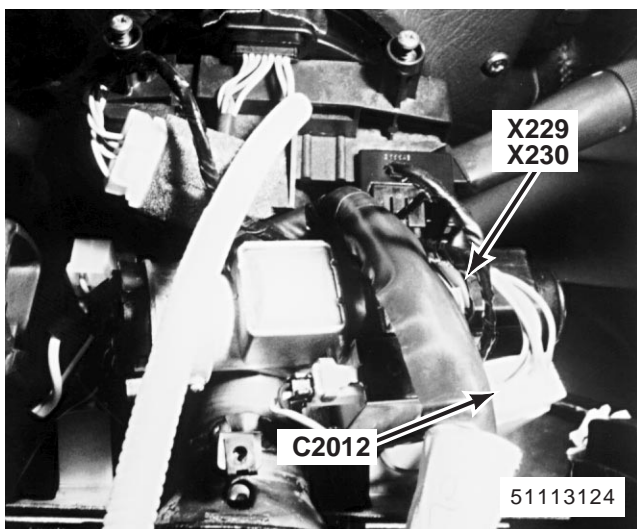
142. in steering wheel  
X258 Horn Switches  
X266 Steering Wheel Cruise Switches  
C2036 (7-BW)



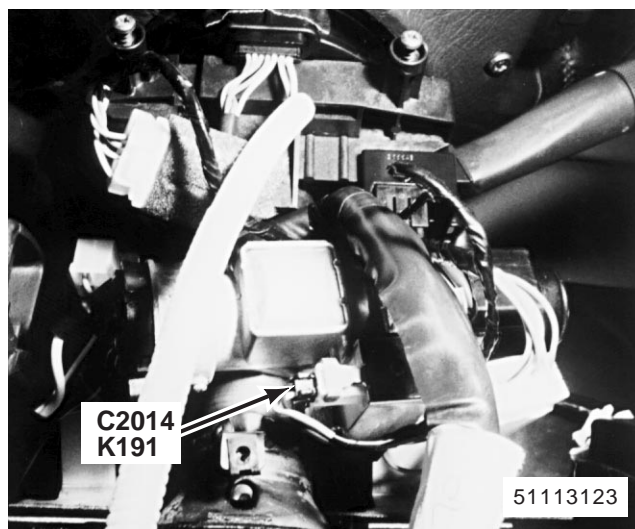
143. underside of steering column  
X116 Direction Indicator Switch  
X145 Main Lighting Switch  
C201 (7-W)  
C2009 (4-W)



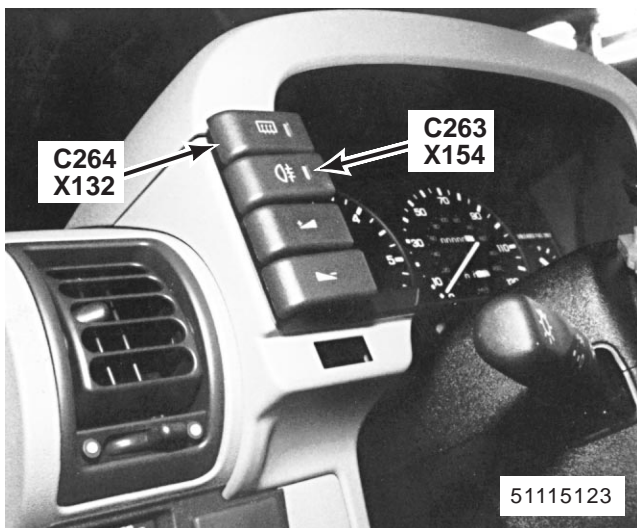
144. underside of steering column  
X134 Ignition Switch  
X229 Key-In Switch  
Z119 Rotary Coupler  
C2010 (6-W)



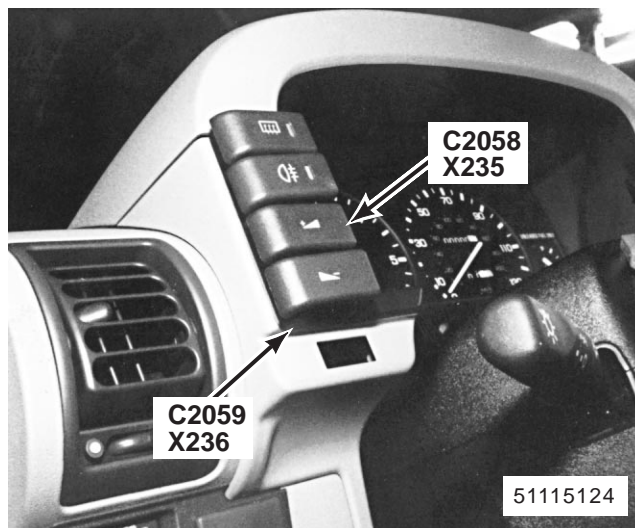
145. underside of steering column  
 X229 Key-In Switch  
 X230 Key-Barrel Switch  
 C2012 (8-W)



146. underside of steering column  
 K191 Ignition Key Lock Solenoid  
 C2014 (2-B)

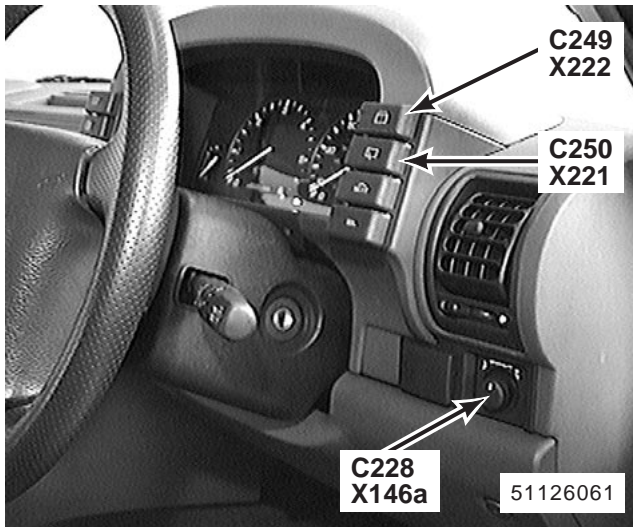


147. top RH side of fascia  
 X132 Heated Rear Screen Switch  
 X154 Rear Fog Guard Lamps Switch  
 C263 (5-B)  
 C264 (5-U)

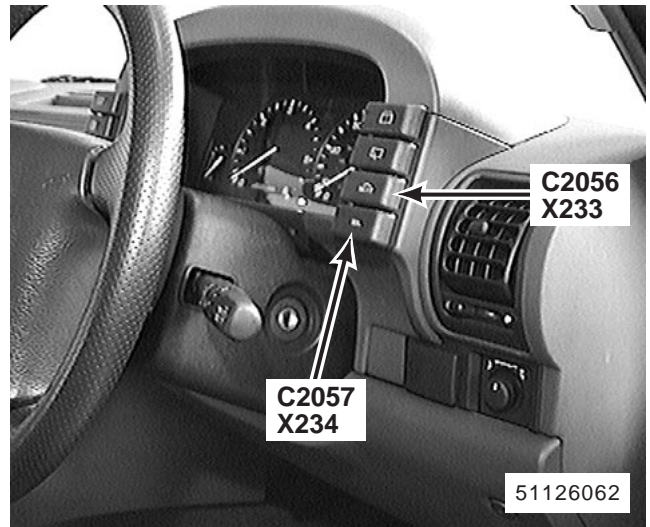


148. top RH side of fascia  
 X235 Radio Volume Up Switch  
 X236 Radio Volume Down Switch  
 C2058 (5-W)  
 C2059 (5-G)

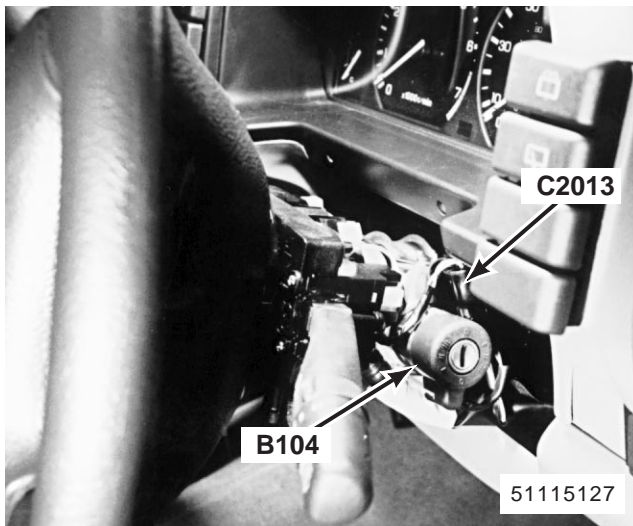




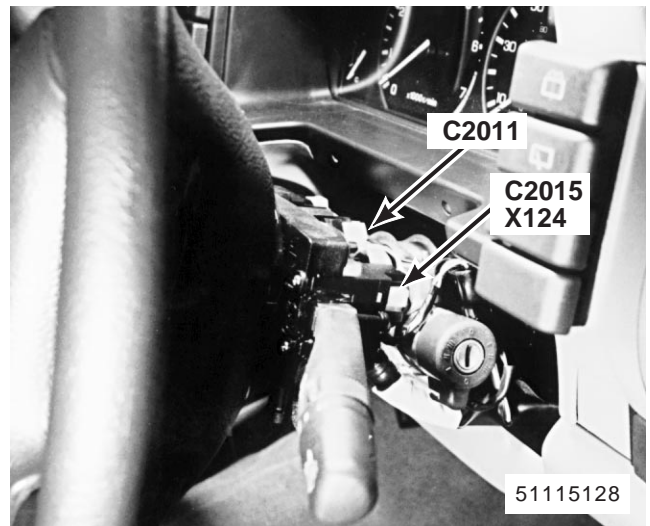
149. top RH side of fascia  
 X146a Mirror Adjustment Switch  
 X221 Rear Screen Wipe Switch  
 X222 Rear Screen Wash Switch  
 C228 (8-B)  
 C249 (5-G)  
 C250 (5-W)



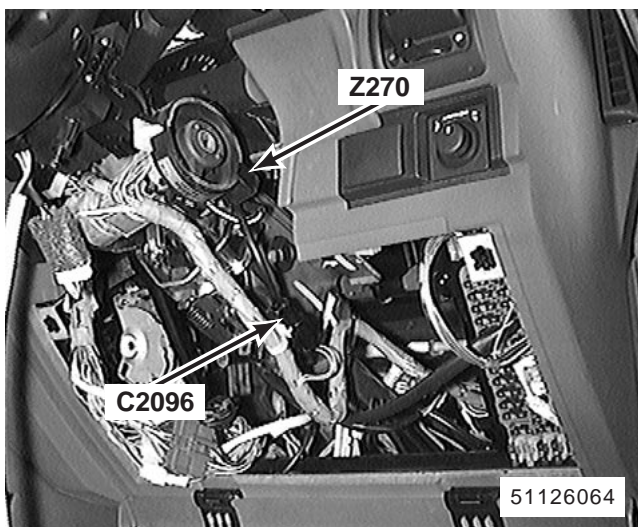
150. top RH side of fascia  
 X233 Radio Tune Switch  
 X234 Radio Waveband Switch  
 C2056 (5-B)  
 C2057 (5-U)



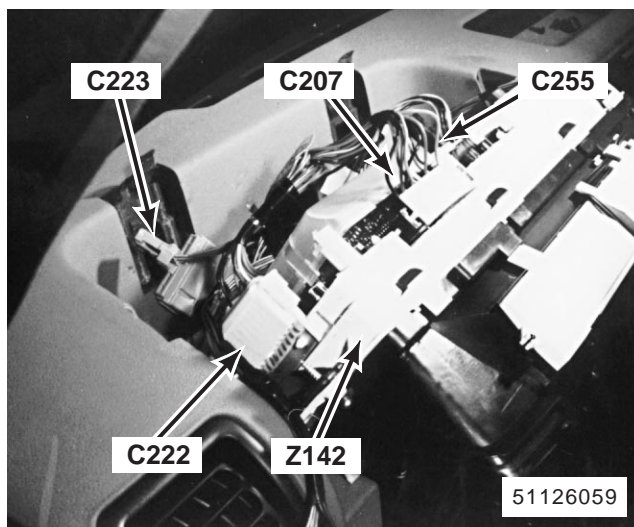
151. top of steering column  
 B104 Column Switch Illumination  
 C2013 (4-B)



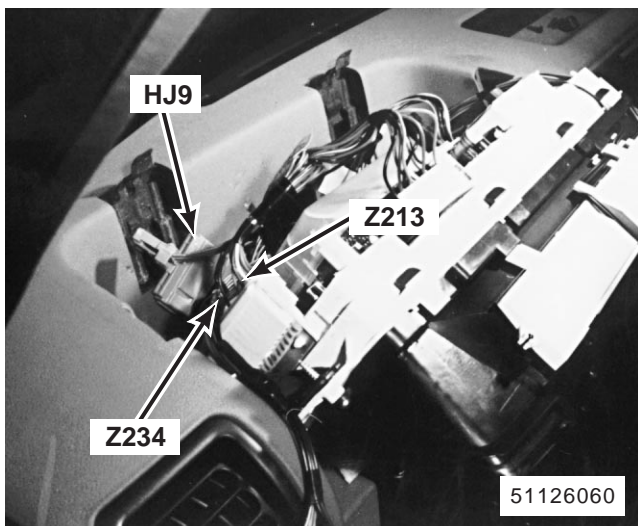
152. top of steering column  
 X124 Front Wipe/Wash Switch  
 C2011 (6-W)  
 C2015 (8-W)



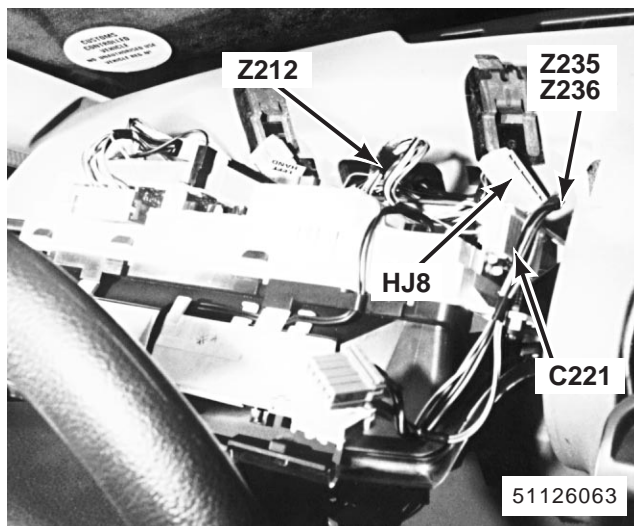
153. top of steering column  
 Z270 Passive Immobilisation Coil  
 C2096 (2-B)



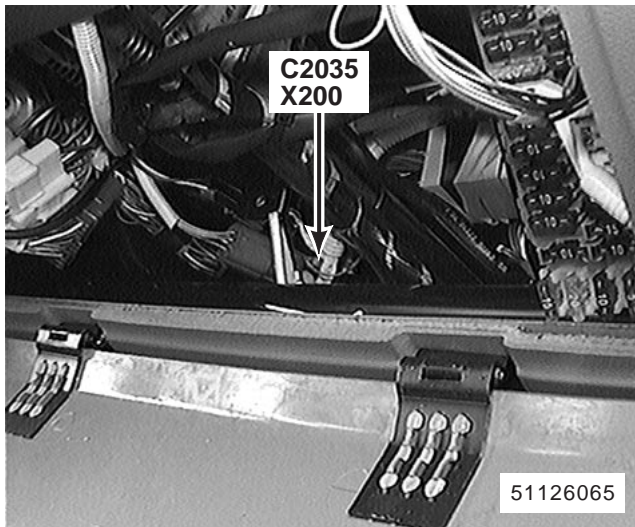
154. behind instrument cluster  
 Z142 Instrument Cluster  
 C207 (10-B)  
 C222 (10-W)  
 C223 (5-U)  
 C255 (1-B)



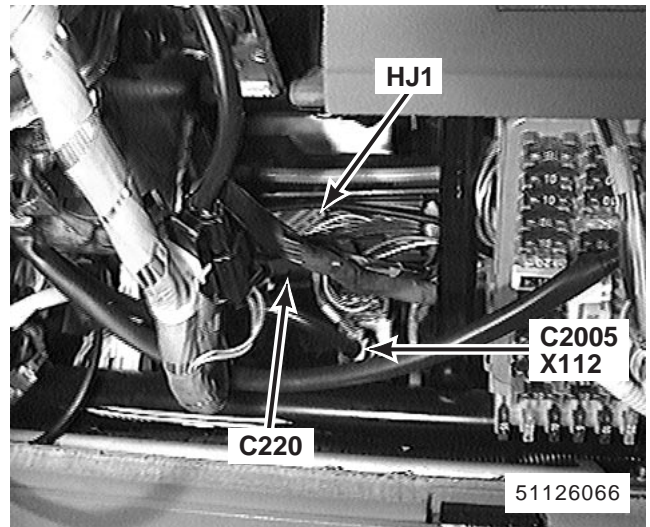
155. behind instrument cluster  
 Z213 Direction Indicator Diode 2  
 Z234 Radio Volume Resistor  
 HJ9 (20-S)



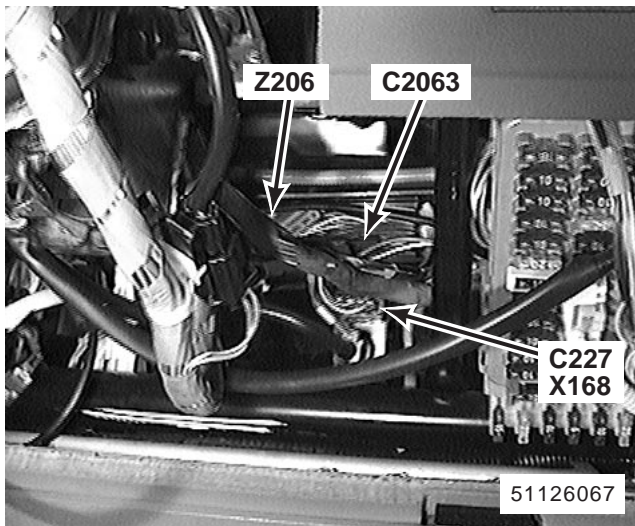
156. behind instrument cluster  
 Z212 Direction Indicator Diode 1  
 Z235 Radio Tune Resistor  
 Z236 Radio Waveband Resistor  
 C221 (10-W)  
 HJ8 (20-S)



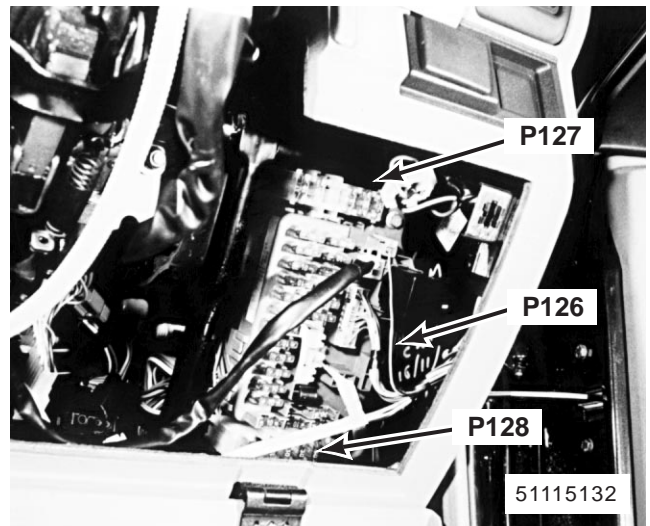
157. behind RH side of fascia  
X200 Clutch Pedal Position Switch  
C2035 (2-W)



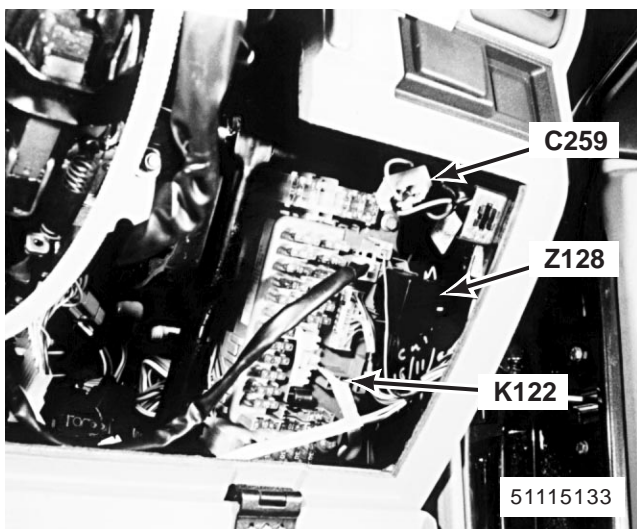
158. behind RH side of fascia  
X112 Brake Switch Vent Valve  
C220 (3-N)  
C2005 (2-W)  
HJ1 (20-S)



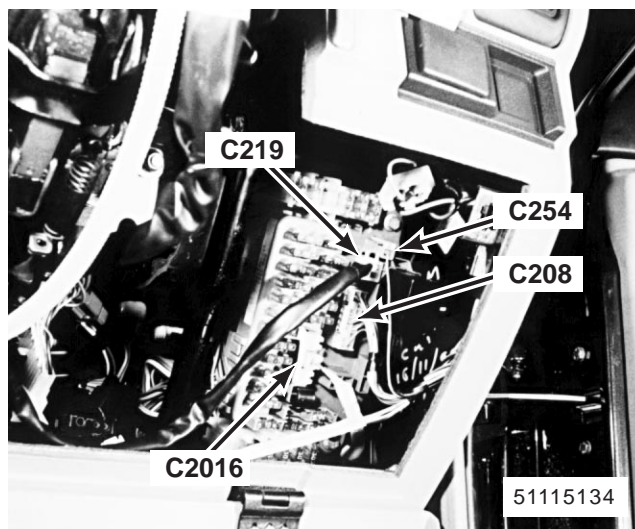
159. behind RH side of fascia  
X168 Stop Lamp Switch  
Z206 Stop Lamp Switch Suppressor  
C227 (4-B)  
C2063 (2-B)



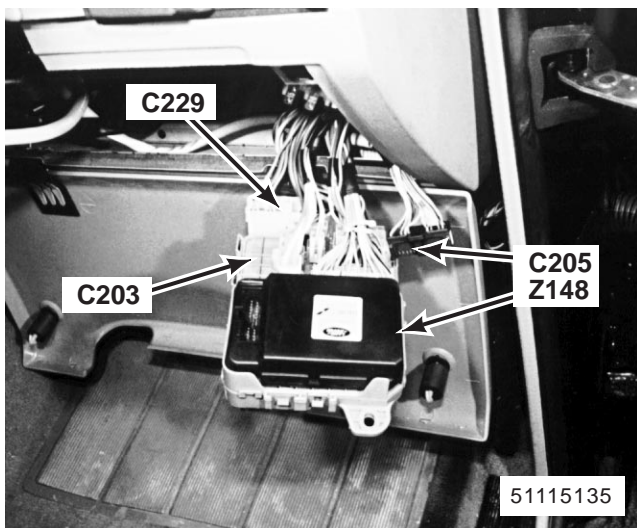
160. behind RH side of fascia right of steering column  
P126 Fascia Fuse Box  
P127 Satellite Fuse Box 1  
P128 Satellite Fuse Box 2



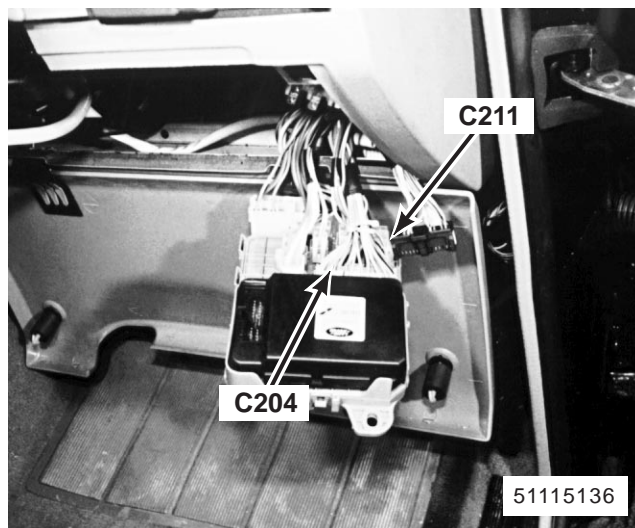
161. behind RH side of fascia right of steering column  
 K122 Heated Rear Screen Relay  
 Z128 Flasher Unit  
 C259 (6-W)



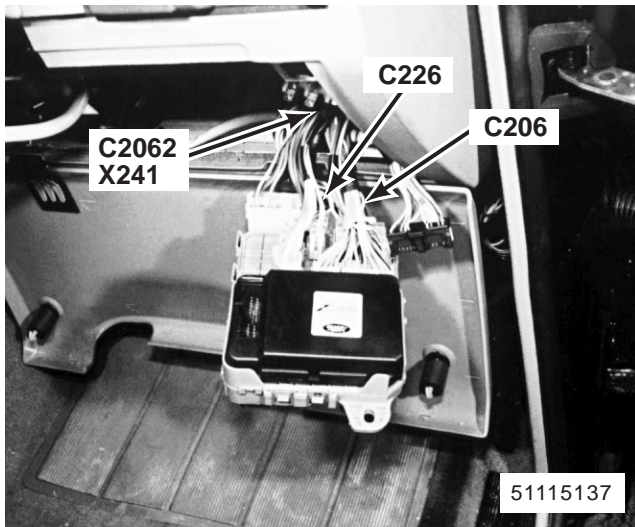
162. behind RH side of fascia right of steering column  
 C208 (18-W)  
 C219 (4-W)  
 C254 (1-W)  
 C2016 (1-W)



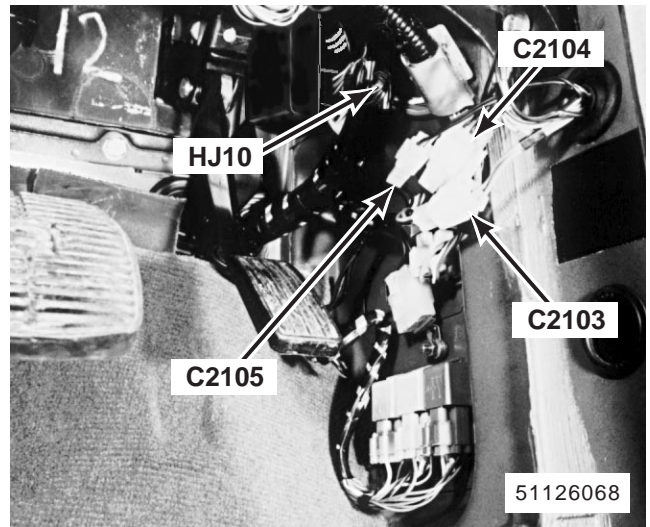
163. behind RH side of fascia rear of Fascia Fuse Box  
 Z148 Multi-Function Unit (MFU)  
 C203 (7-W)  
 C205 (24-B)  
 C229 (1-W)



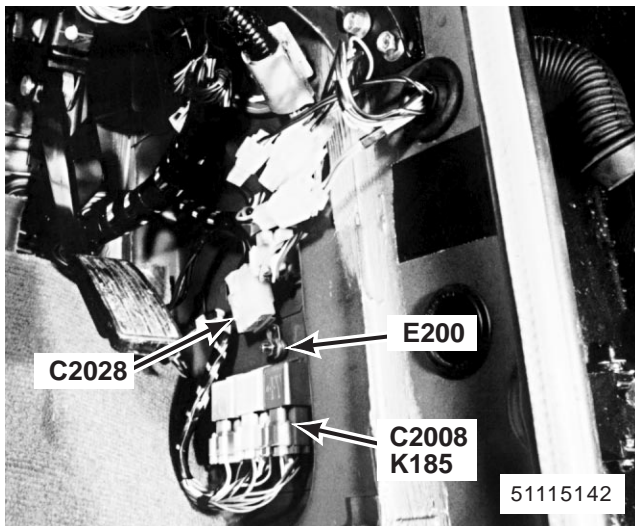
164. behind RH side of fascia rear of Fascia Fuse Box  
 C204 (24-W)  
 C211 (10-W)



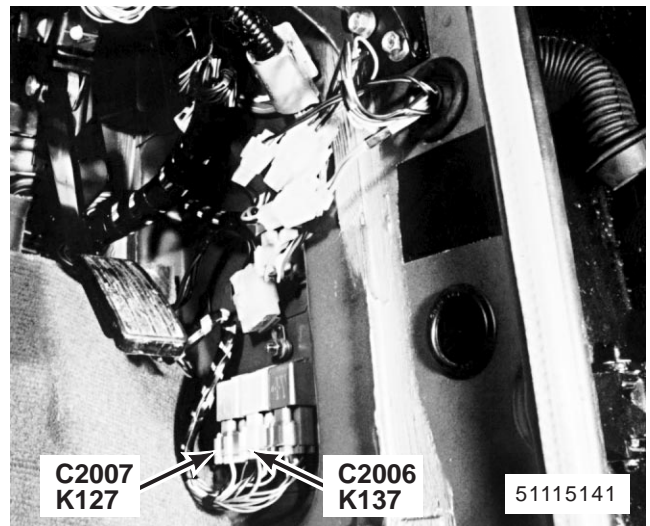
165. behind RH side of fascia rear of Fascia Fuse Box  
 X241 Saudi Junction Connector  
 C206 (4-W)  
 C226 (3-W)  
 C2062 (1-B)



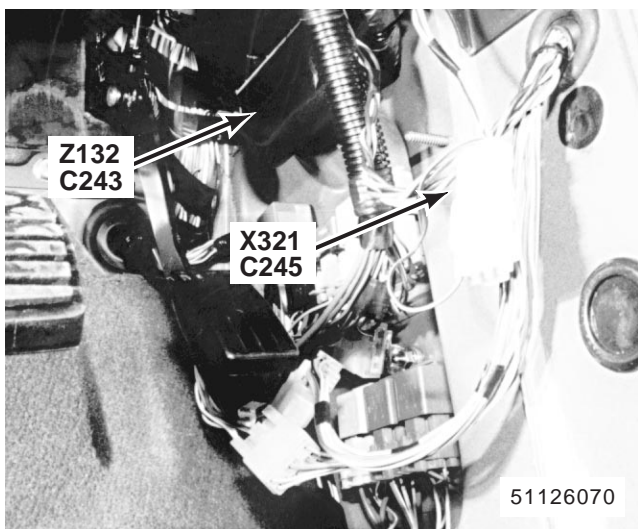
166. behind RH footwell trim panel  
 C2103 (2-W)  
 C2104 (13-W)  
 C2105 (2-W)  
 HJ10 (20-S)



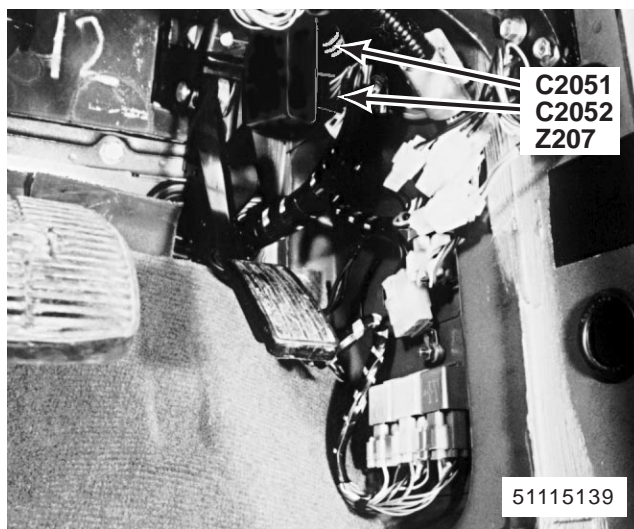
167. behind RH footwell trim panel  
 K185 Front Wiper Relay  
 C2008 (5-G)  
 C2028 (6-W)  
 E200



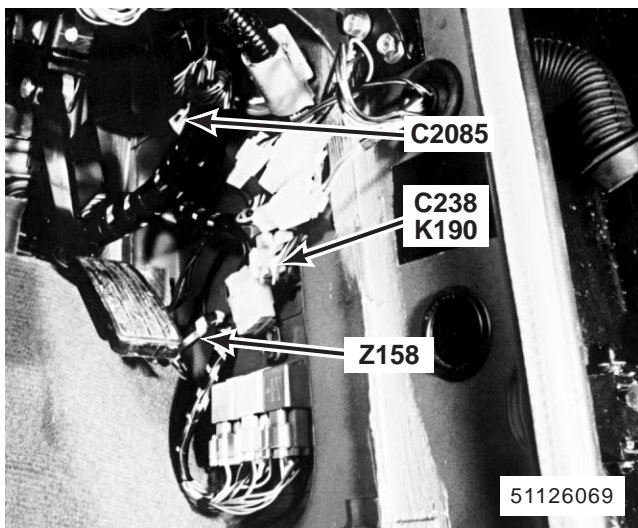
168. behind RH footwell trim panel  
 K127 Ignition Load Relay  
 K137 Starter Solenoid Relay  
 C2006 (5-Y)  
 C2007 (5-Y)



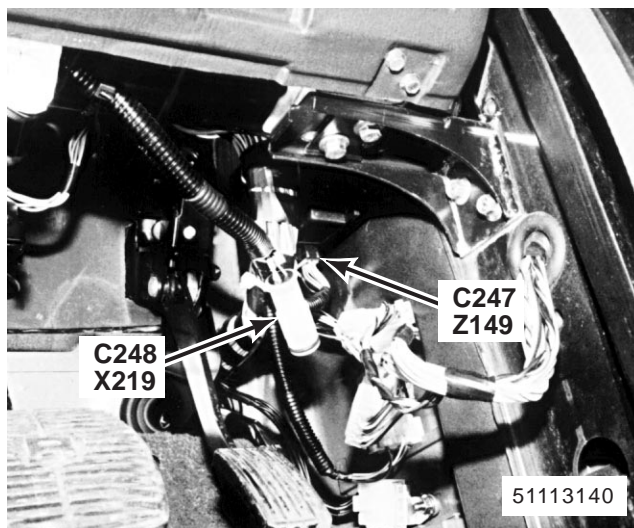
169. behind RH footwell trim panel (MFI-V8)  
 X321 Data Link Connector (MFI)  
 Z132 Engine Control Module (ECM)  
 C243 (40-B)  
 C245 (5-W)



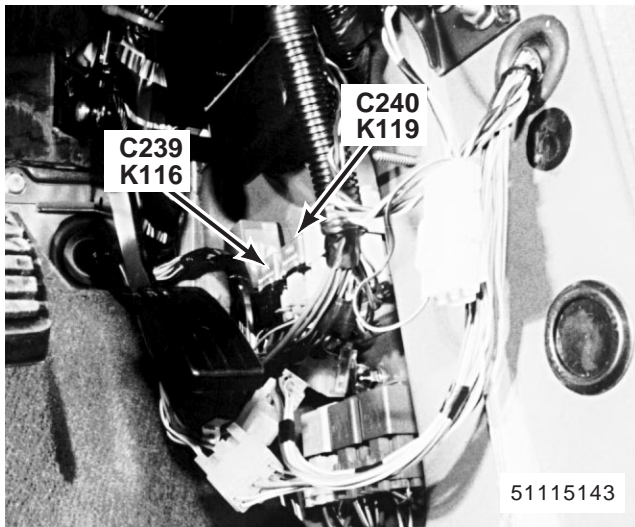
170. behind RH footwell trim panel (MFI-T16)  
 Z207 Multi-Function Relay Unit  
 C2051 (8-B)  
 C2052 (6-B)



171. behind RH footwell trim panel (MFI-T16)  
 K190 Cooling Fan Relay  
 Z158 Starter Relay Diode  
 C238 (5-Y)  
 C2085 (3-W)

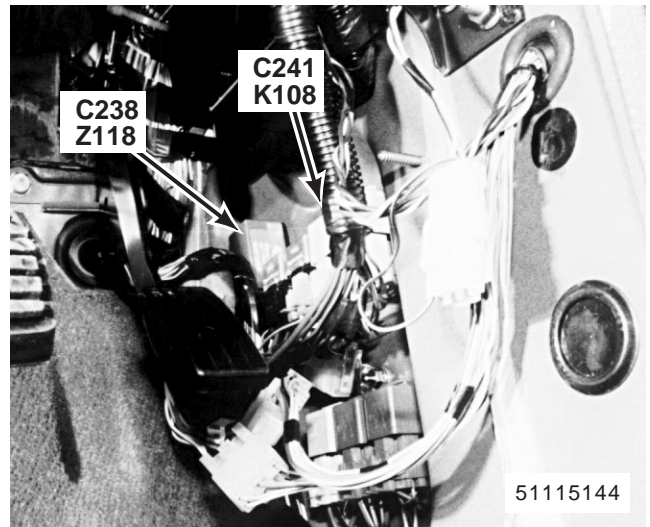


172. behind RH footwell trim panel (300Tdi without EDC)  
 X219 Data Link Connector (EGR)  
 Z149 EGR Valve Control Module  
 C247 (16-B)  
 C248 (3-W)



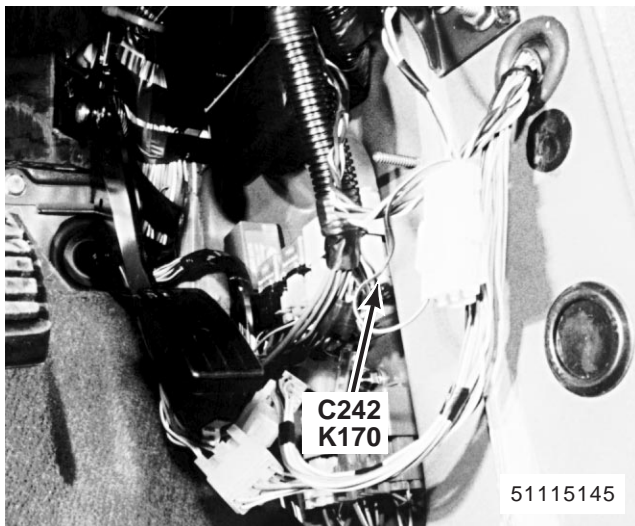
173. behind RH footwell trim panel (MFI-V8 shown; others similar)

- K116 Engine Control Load Relay
- K119 Fuel Pump Relay
- C239 (5-B)
- C240 (5-U)



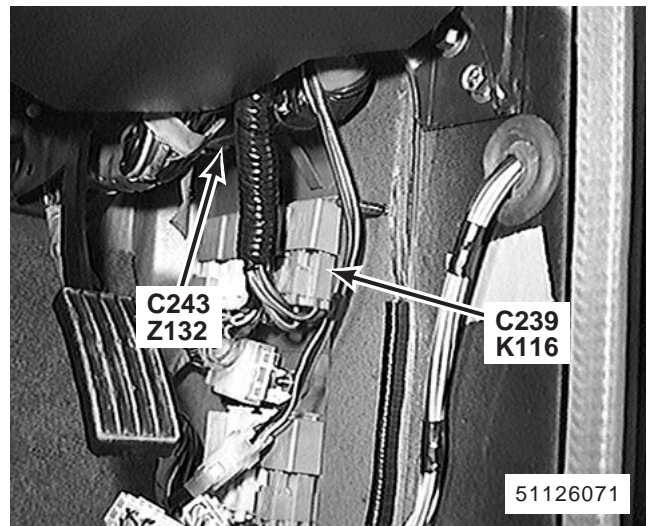
174. behind RH footwell trim panel (MFI-V8 shown; others similar)

- K108 Compressor Clutch Relay
- Z118 Fan Control Module
- C238 (9-B)
- C241 (5-Y)



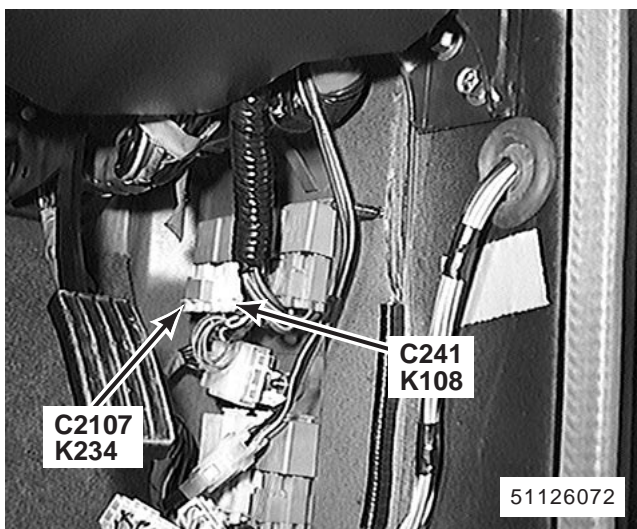
175. behind RH footwell trim panel (MFI-V8 shown; others similar)

- K170 A/C Logic Relay
- C242 (5-Y)

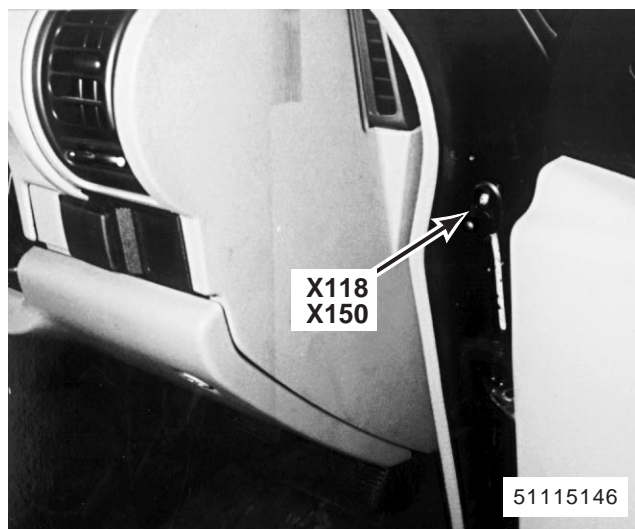


176. behind RH footwell trim panel (300Tdi with EDC)

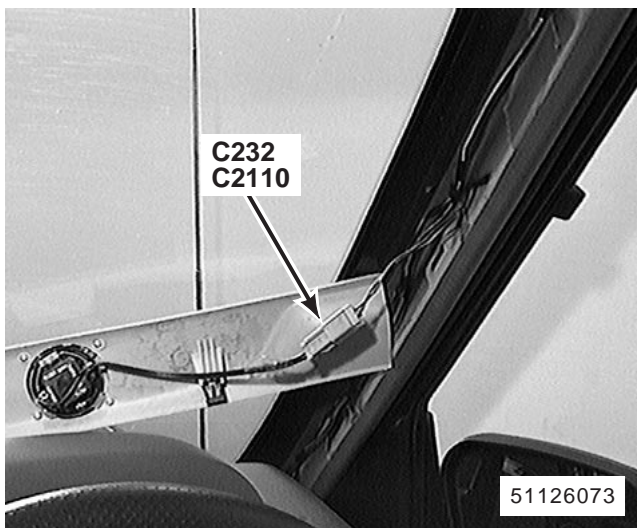
- K116 Engine Control Load Relay
- Z132 Engine Control Module (ECM)
- C239 (5-Y)
- C243 (55-B)



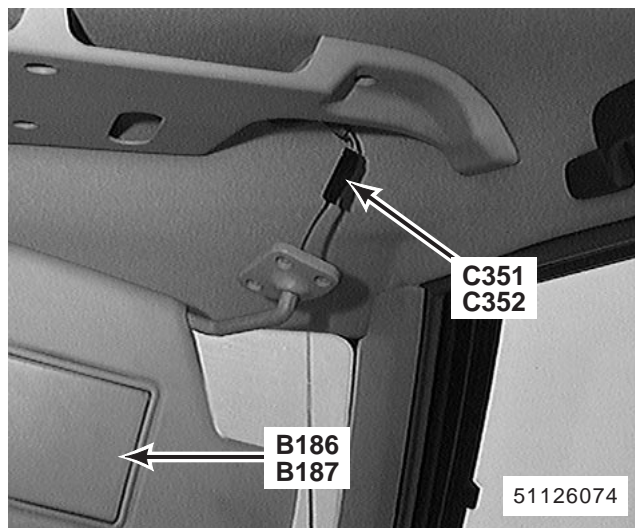
177. behind RH footwell trim panel (300Tdi with EDC)  
 K108 Compressor Clutch Relay  
 K234 Cruise Control Disable Relay  
 C241 (5-Y)  
 C2107 (5-W)



178. front of RH front door jamb (LH similar)  
 X118 Right Front Door Switch  
 X150 Left Front Door Switch

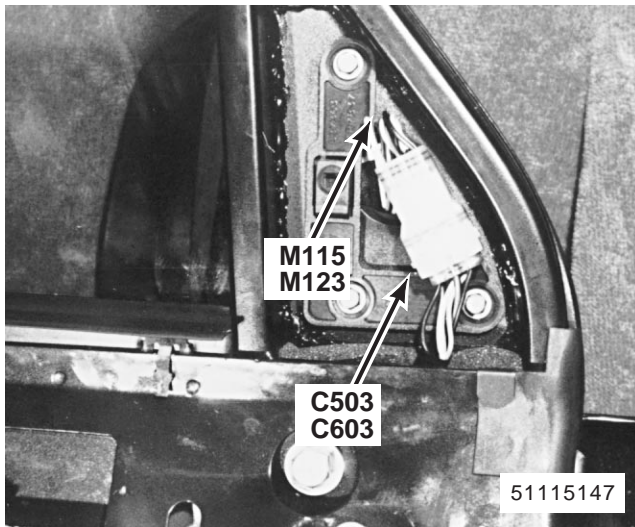


179. RH A-post (LH similar)  
 C232 (2-S) (Right)  
 C2110 (2-S) (Left)

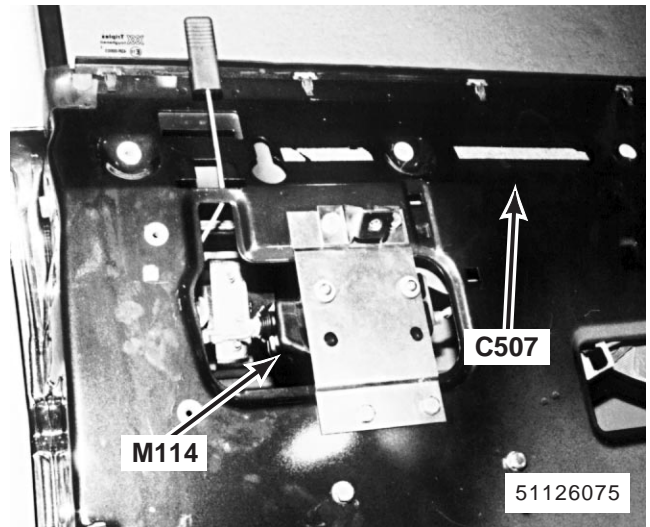


180. RH front of roof (LH similar)  
 B186 Left Vanity Mirror Lamp  
 B187 Right Vanity Mirror Lamp  
 C351 (2-B) (Right)  
 C352 (2-B) (Left)

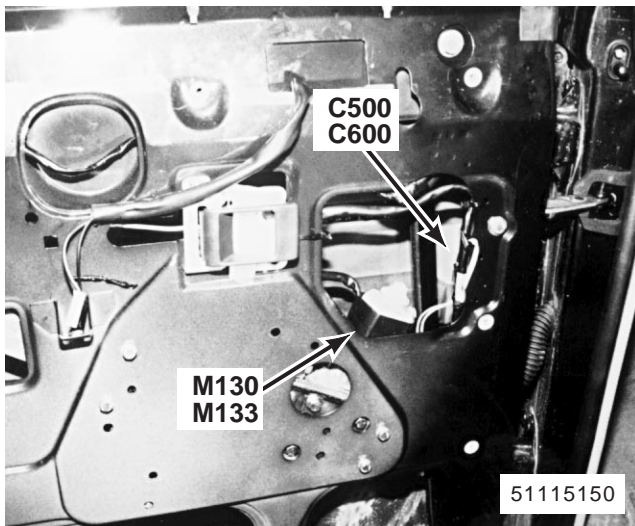




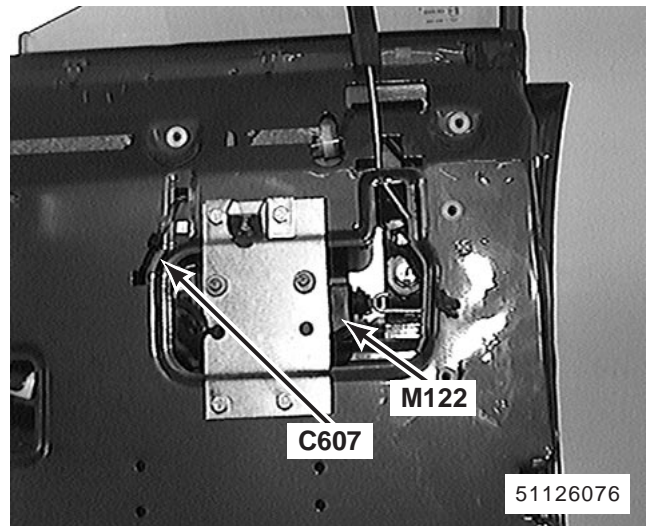
181. top front of LH front door (RH similar)  
 M115 Left Mirror Actuator  
 M123 Right Mirror Actuator  
 C503 (6-W) (Left)  
 C603 (6-W) (Right)



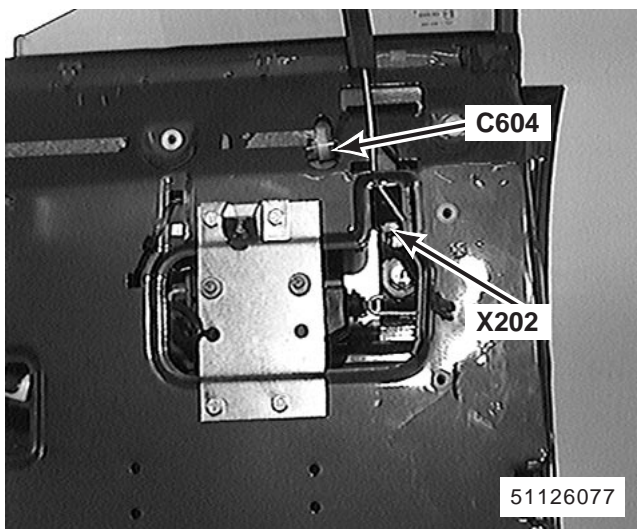
182. in rear of LH front door  
 M114 Left Front Door Lock Actuator  
 C507 (2-W) (Except Japan) (Without Theft Alarm)  
 C507 (4-W) (Japan)  
 C507 (6-W) (Except Japan) (With Theft Alarm)



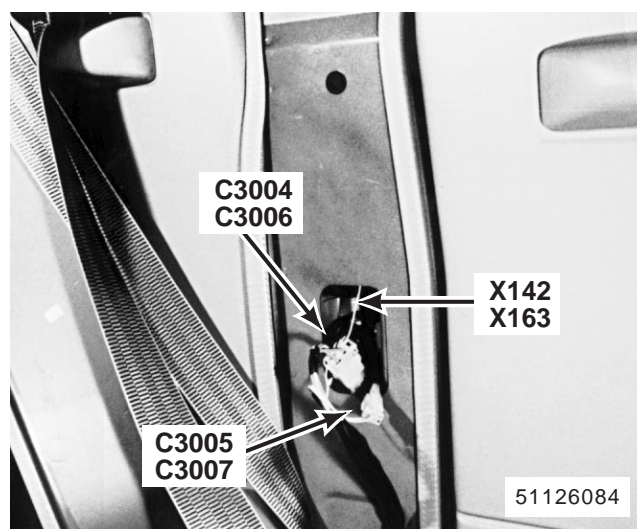
183. in front of LH front door (RH similar)  
 M130 Left Front Window Motor  
 M133 Right Front Window Motor  
 C500 (2-B) (Left)  
 C600 (2-B) (Right)



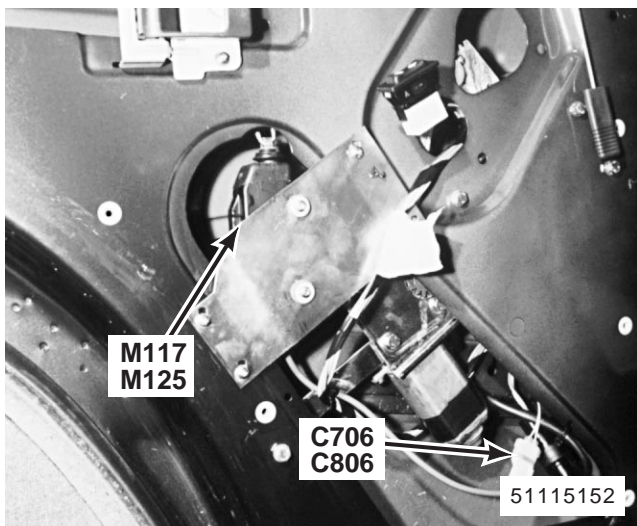
184. in rear of RH front door (LH similar)  
 M122 Right Front Door Lock Actuator  
 C607 (4-W) (Except Japan) (Without Theft Alarm) (Japan)  
 C607 (6-W) (Except Japan) (With Theft Alarm)



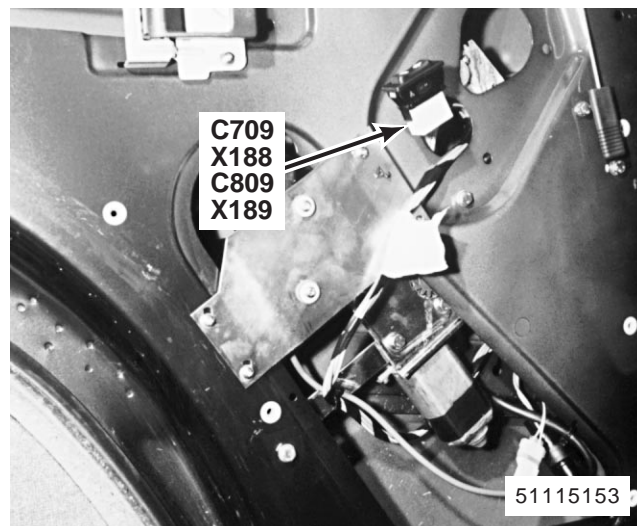
185. in rear of RH front door (LH similar)  
 X202 Right Front Door Key Switch  
 C604 (4-W)



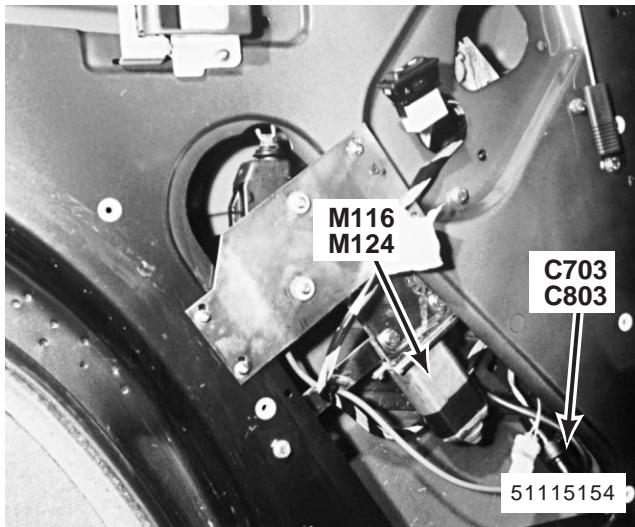
186. in lower part of LH B-post (RH similar)  
 X142 Left Rear Door Switch  
 X163 Right Rear Door Switch  
 C3004 (3-W) (Left)  
 C3005 (2-W) (Left)  
 C3006 (3-W) (Right)  
 C3007 (2-W) (Right)



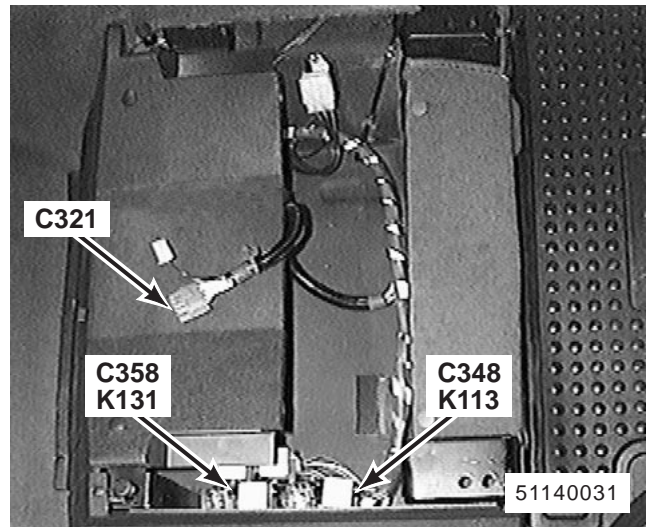
187. inside front of LH rear door (RH similar)  
 M117 Left Rear Door Lock Actuator  
 M125 Right Rear Door Lock Actuator  
 C706 (2-W) (Left)  
 C806 (2-W) (Right)



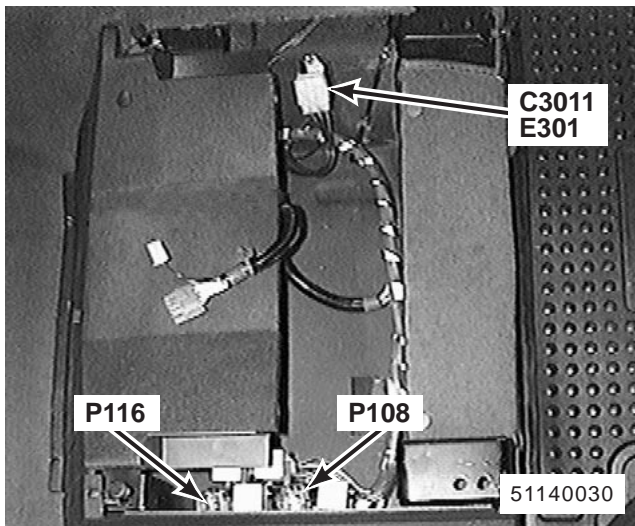
188. inside front of LH rear door (RH similar)  
 X188 Left Rear Window Door Switch  
 X189 Right Rear Window Door Switch  
 C709 (5-W) (Left)  
 C809 (5-W) (Right)



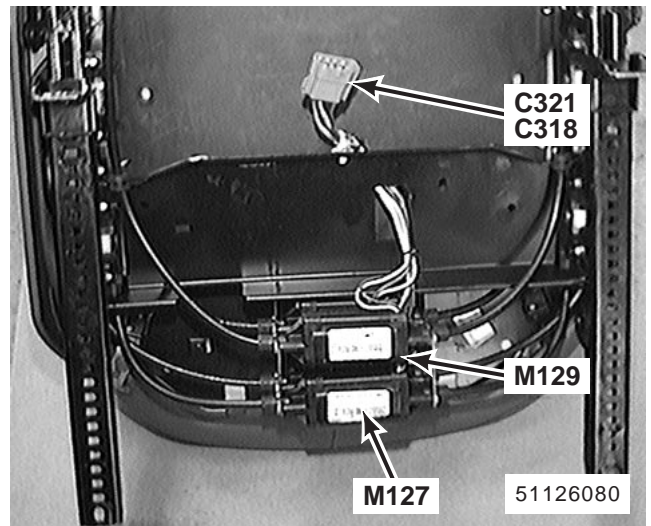
189. inside front of LH rear door (RH similar)  
 M116 Left Rear Window Motor  
 M124 Right Rear Window Motor  
 C703 (2-B) (Left)  
 C803 (2-B) (Right)



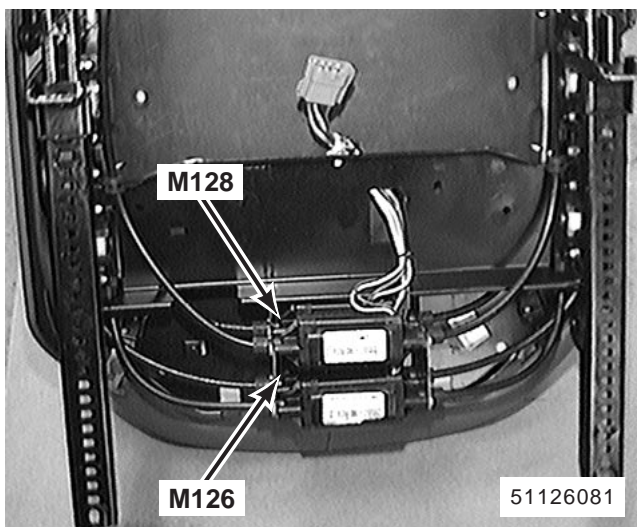
190. beneath LH front seat  
 K113 Left Seat Power Relay  
 K131 Right Seat Power Relay  
 C321 (9-U)  
 C348 (5-Y)  
 C358 (5-Y)



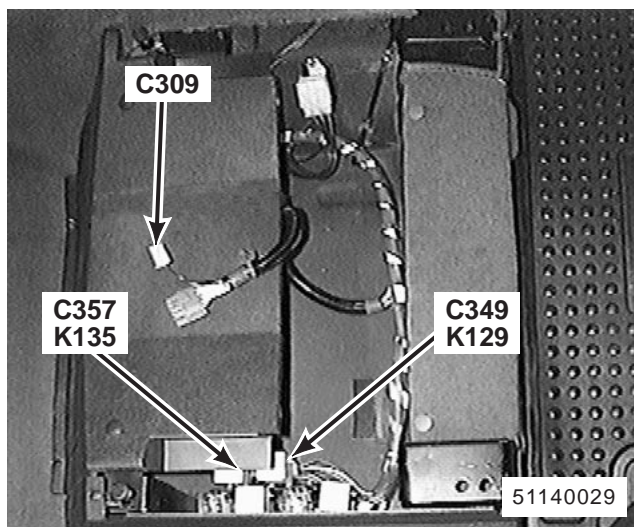
191. beneath LH front seat  
 P108 Driver's Underseat Fuse Box  
 P116 Passenger's Underseat Fuse Box  
 C3011 (6-W)  
 E301



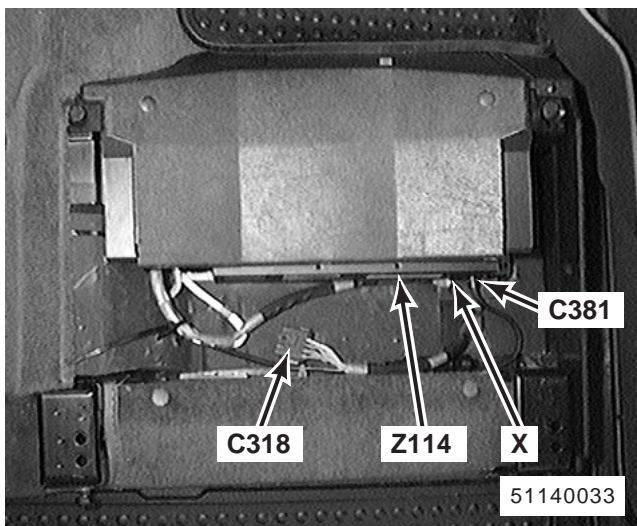
192. underside of LH front seat (RH similar)  
 M127 Seat Height (Front) Motor  
 M129 Seat Recline Motor  
 C318 (9-R) (Right)  
 C321 (9-U) (Left)



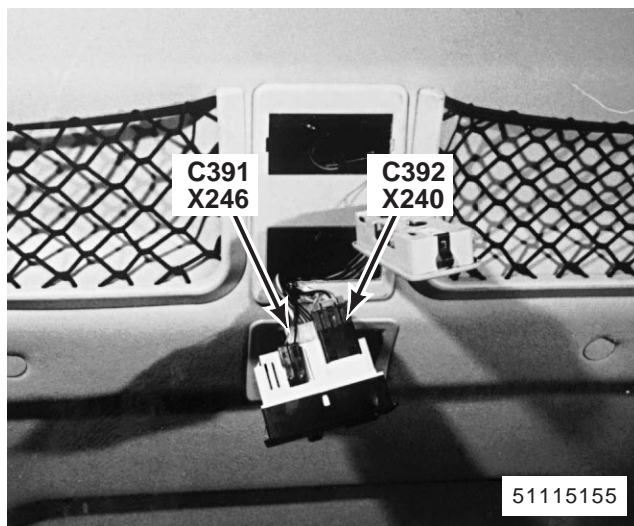
193. underside of LH front seat (RH similar)  
 M126 Seat Base Motor  
 M128 Seat Height (Rear) Motor



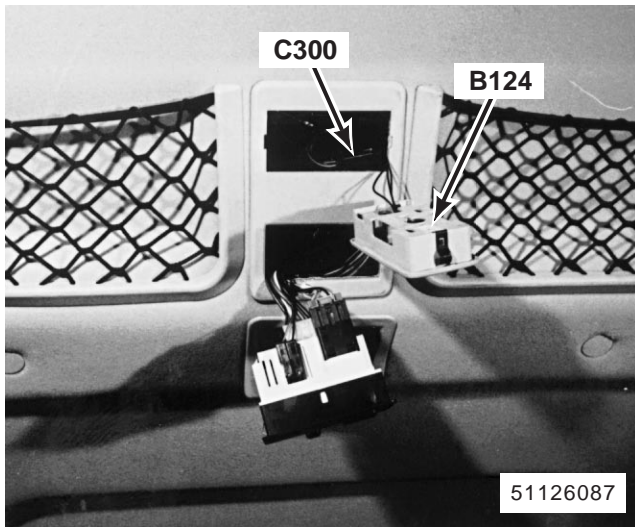
194. beneath LH front seat  
 K129 Left Seat Heat Relay  
 K135 Right Seat Heat Relay  
 C309 (2-BW)  
 C349 (5-W)  
 C357 (5-W)



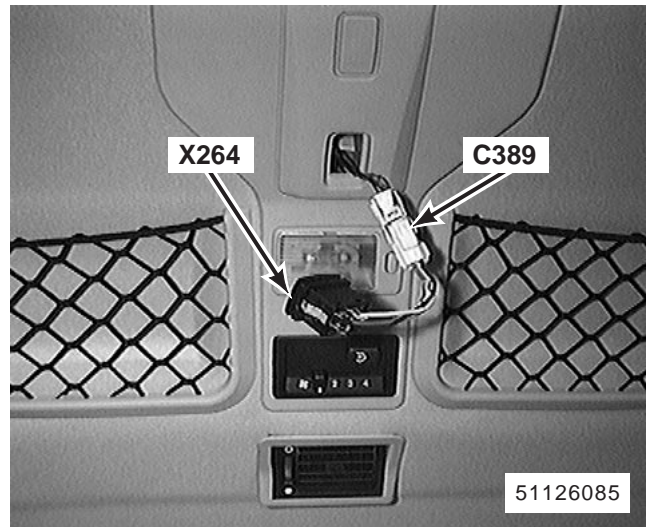
195. beneath RH front seat  
 X (DIN CABLE)  
 Z114 CD Changer  
 C318 (9-R)  
 C381 (3-W)



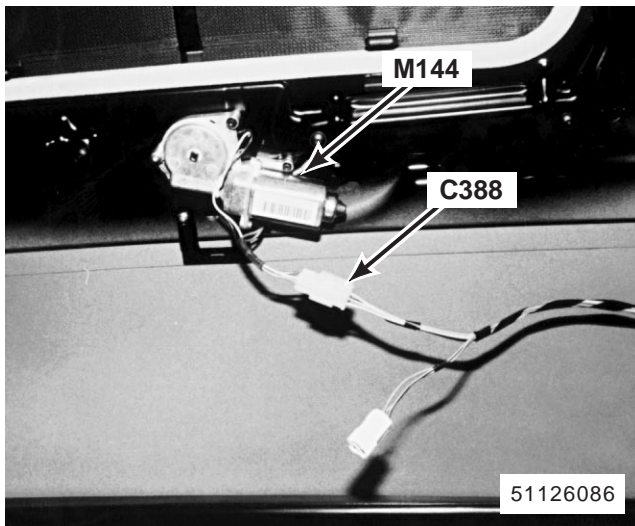
196. centre of roof  
 X240 Passenger's Rear A/C Switch  
 X246 Passenger's Rear Fan Speed Switch  
 C391 (5-W)  
 C392 (5-U)



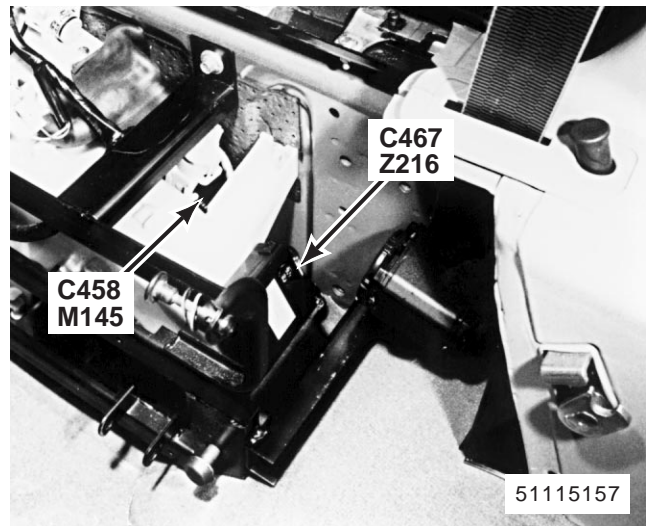
197. centre of roof  
 B124 Rear Interior Roof Lamp  
 C300 (4-B)



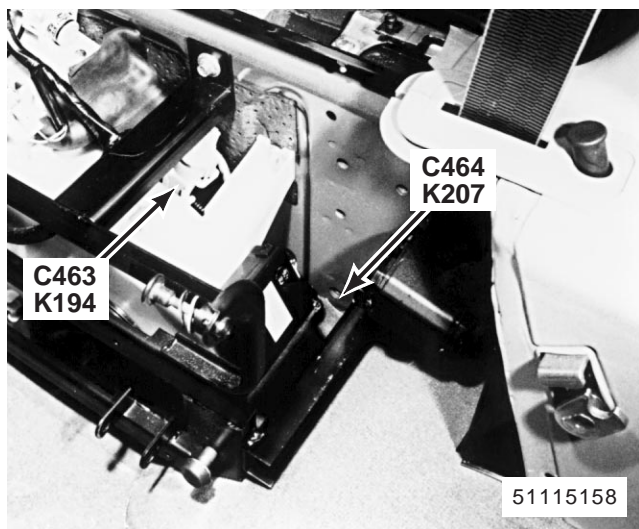
198. centre of roof  
 X264 Passenger's Rear Sunroof Switch  
 C389 (3-W)



199. centre of roof  
 M144 Rear Sunroof Motor  
 C388 (4-W)



200. LH side of luggage compartment behind trim panel  
 M145 Rear Blower Motor  
 Z216 Rear A/C Switch Amplifier  
 C458 (2-B)  
 C467 (6-W)



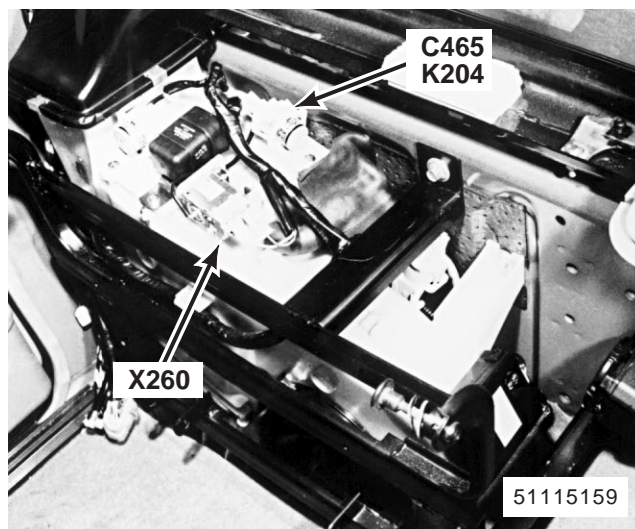
201. LH side of luggage compartment behind trim panel

K194 Rear A/C Control Relay

K207 Rear A/C Refrigerant Control Valve

C463 (4-W)

C464 (2-S)

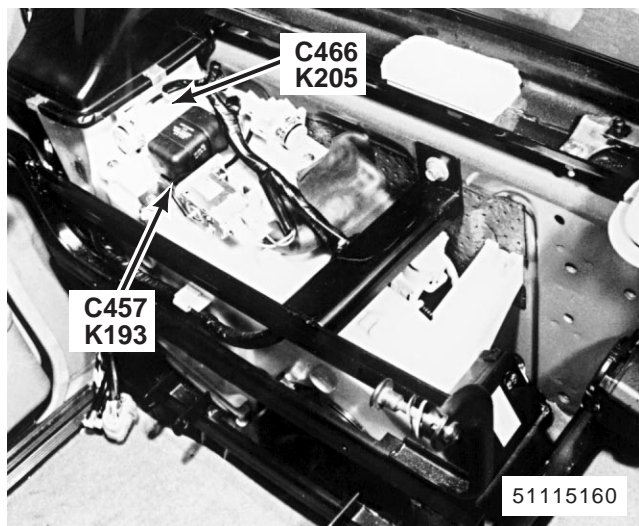


202. LH side of luggage compartment behind trim panel

X260 Rear A/C Evaporator Temperature Switch

K204 Rear A/C Illumination Relay

C465 (4-W)



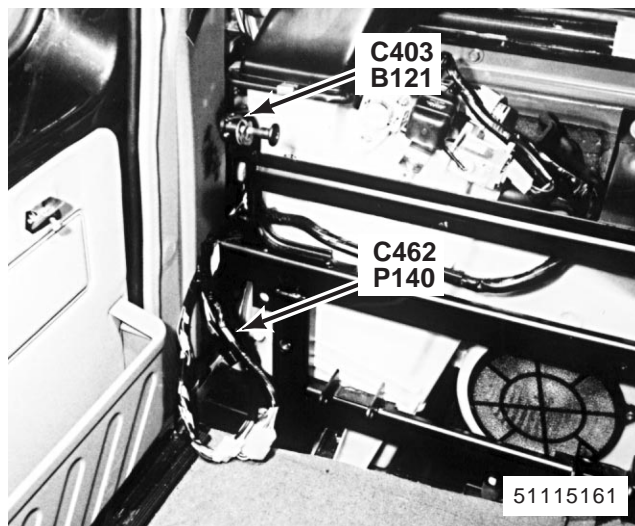
203. LH side of luggage compartment behind trim panel

K193 Rear Blower Motor Relay

K205 Rear A/C Fan Speed Relay

C457 (5-W)

C466 (4-W)



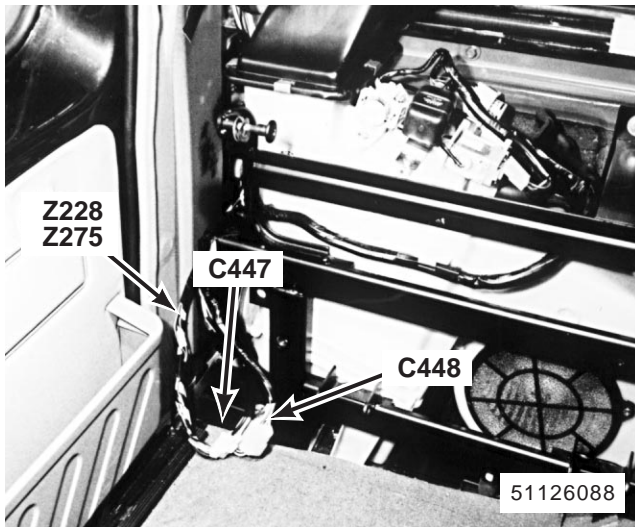
204. LH rear of luggage compartment behind trim panel

B121 Left Rear Lamp Assembly

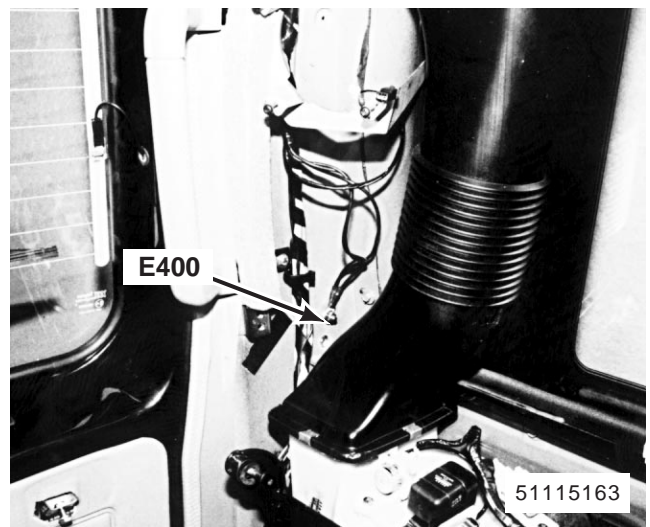
P140 Rear A/C Switch Amplifier In-Line Fuse

C403 (6-W)

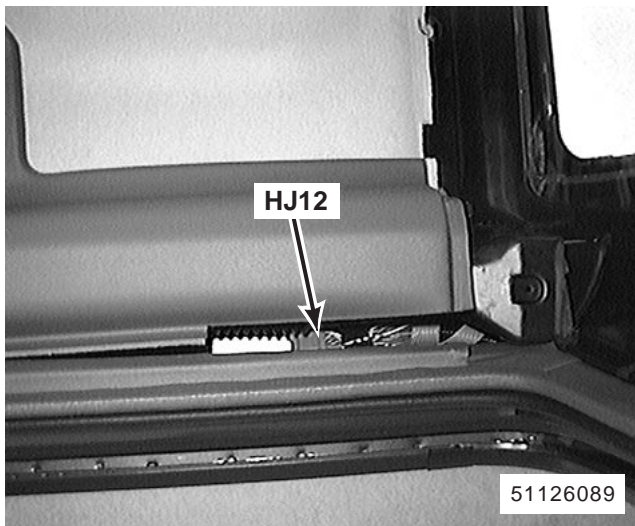
C462 (2-B)



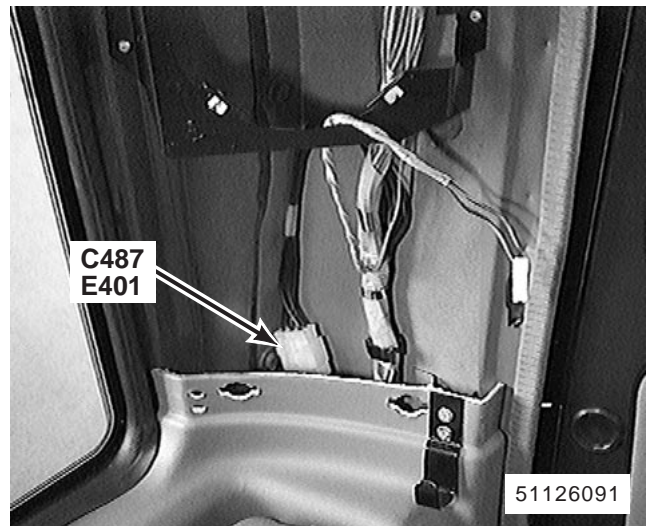
205. LH rear of luggage compartment behind trim panel  
 Z228 Rear A/C Refrigerant Control Valve Diode  
 Z275 Rear A/C Relay Diode  
 C447 (2-W)  
 C448 (16-W)



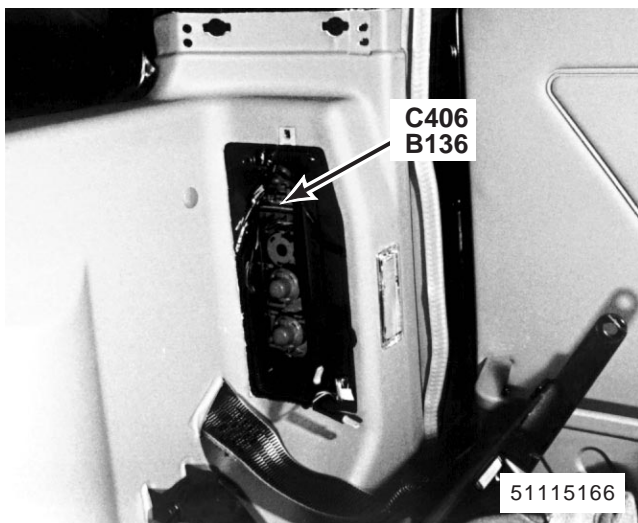
206. LH rear of luggage compartment behind trim panel  
 E400



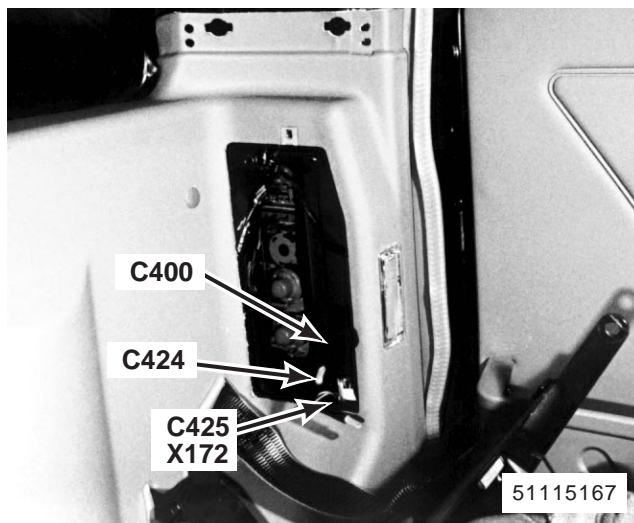
207. LH rear of roof behind trim panel  
 HJ12 (20-G)



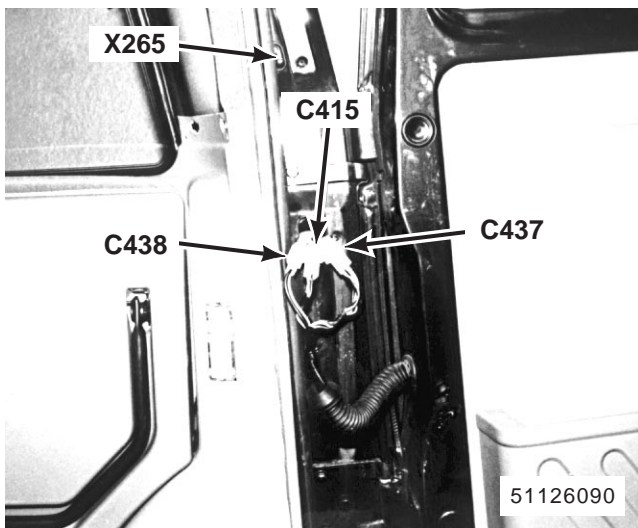
208. RH rear of luggage compartment behind trim panel  
 C487 (6-W)  
 E401



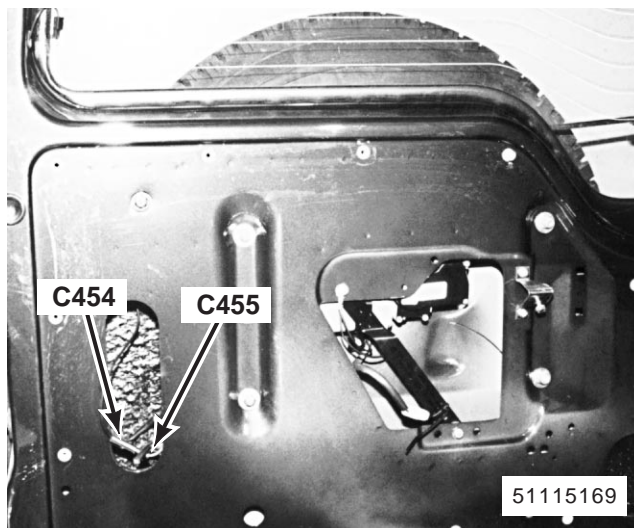
209. RH rear of luggage compartment behind trim panel  
 B136 Right Rear Lamp Assembly  
 C406 (6-W)



210. RH rear of luggage compartment behind trim panel  
 X172 Trailer Auxiliary Socket  
 C400 (7-B)  
 C424 (1-B)  
 C425 (1-B)

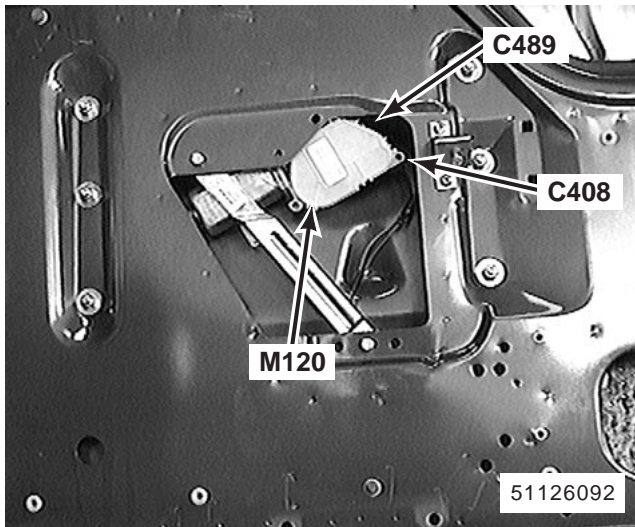


211. in RH side of tailgate door jamb  
 X265 Rear End Door Switch  
 C415 (8-W)  
 C437 (6-W)  
 C438 (2-W)

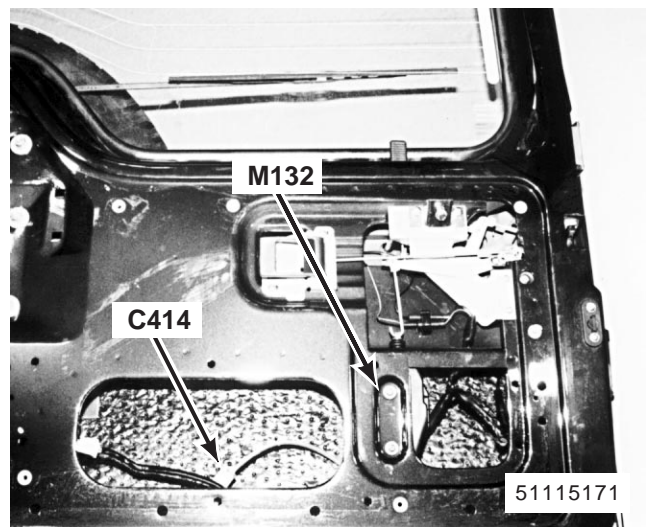


212. RH side of tailgate  
 C454 (1-B)  
 C455 (1-B)

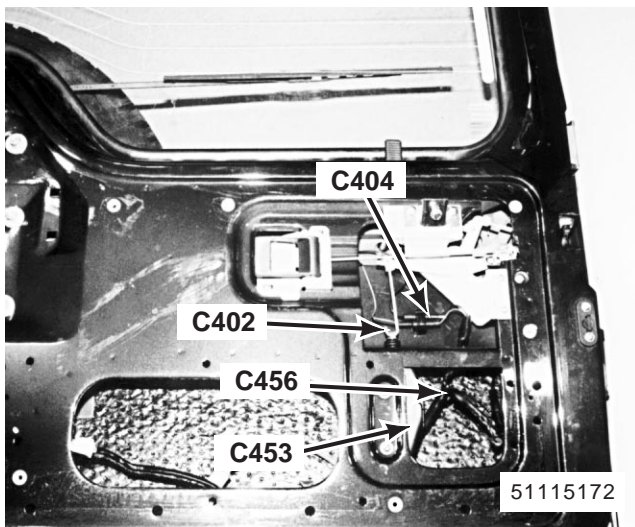




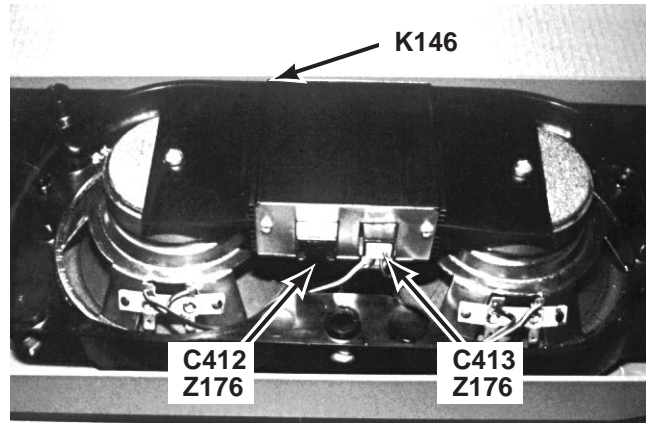
213. RH side of tailgate  
 M120 Rear Wiper Motor  
 C408 (3-B)  
 C489 (2- )



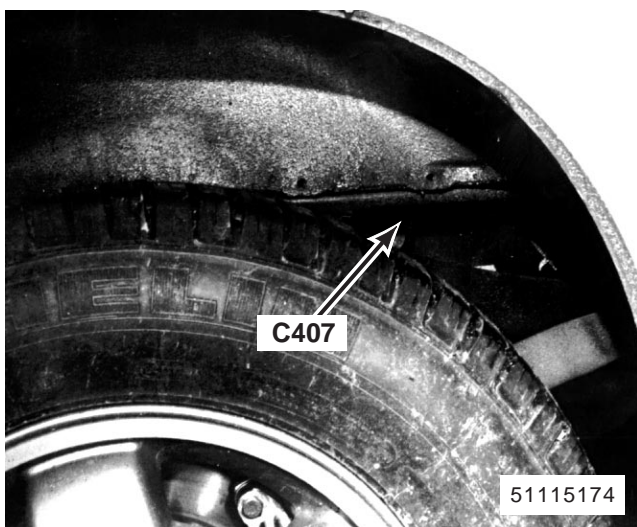
214. LH side of tailgate  
 M132 Tailgate Lock Actuator  
 C414 (2-W)



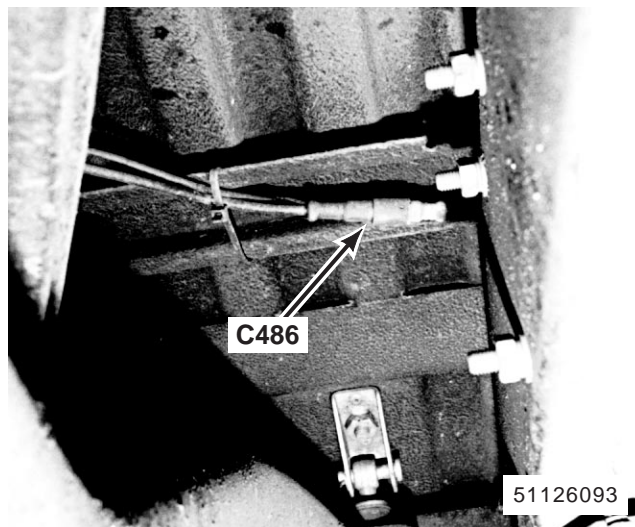
215. LH side of tailgate  
 C402 (1-B)  
 C404 (1-B)  
 C453 (1-B)  
 C456 (1-B)



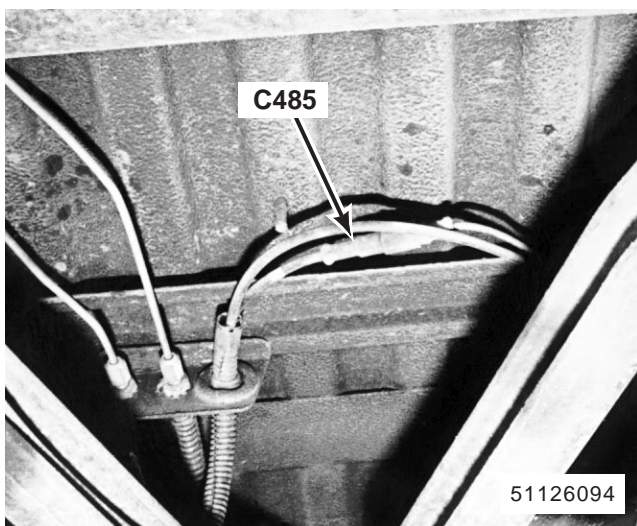
216. LH side of tailgate rear of Subwoofer  
 K146 Subwoofer  
 Z176 Subwoofer Amplifier  
 C412 (6-W)  
 C413 (4-W)



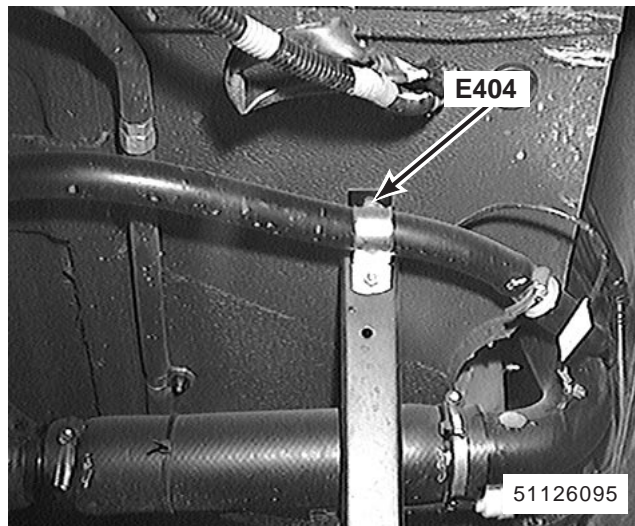
217. beneath LH rear of vehicle  
C407 (6-B)



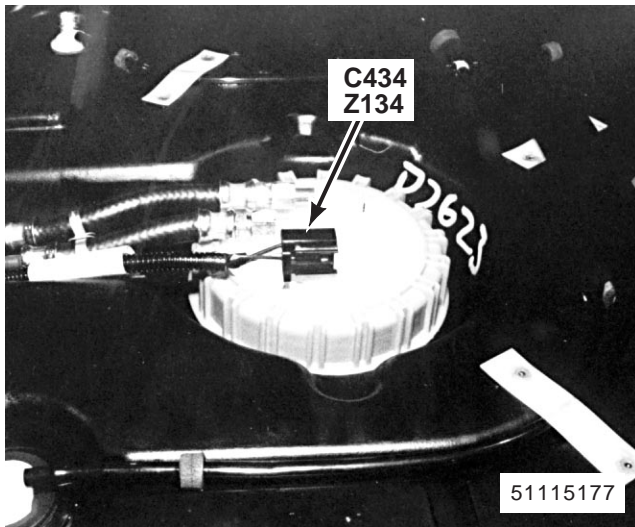
218. beneath LH rear of vehicle  
C486 (2-W)



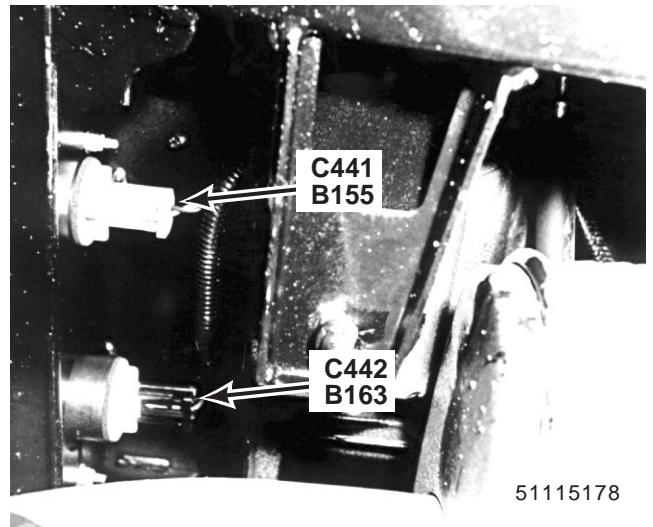
219. beneath RH rear of vehicle  
C485 (2-W)



220. beneath LH rear of vehicle  
E404



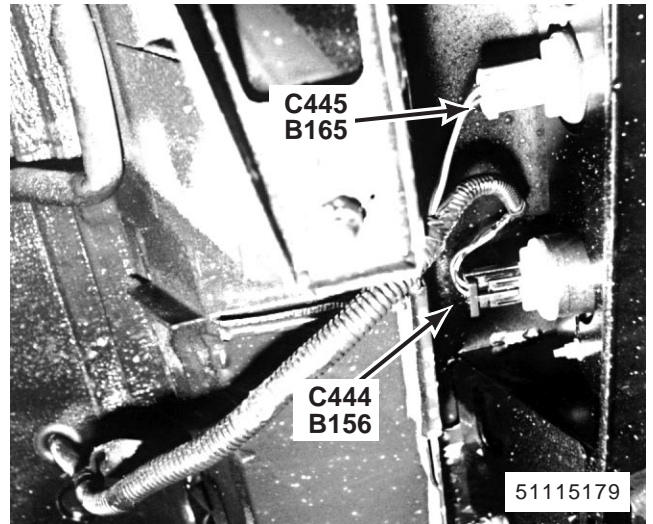
221. top of fuel tank  
Z134 Fuel Pump Module  
C434 (4-B)



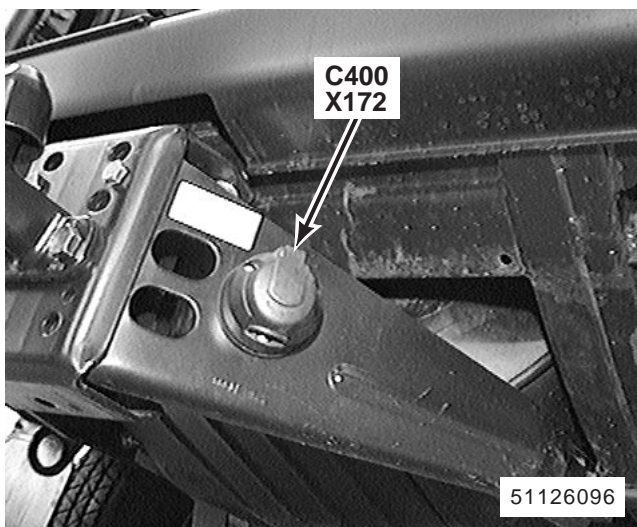
222. behind LH side of rear bumper  
B155 Left Tail Lamp  
B163 Left Rear Indicator Lamp  
C441 (2-R)  
C442 (2-B)



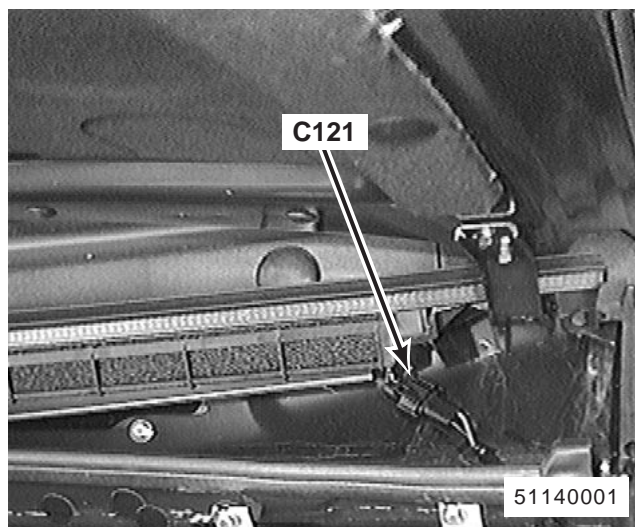
223. behind LH side of rear bumper (RH similar)  
B159 Left Rear Side Marker Lamp  
B160 Right Rear Side Marker Lamp  
C443 (2-B) (Left)  
C446 (2-B) (Right)



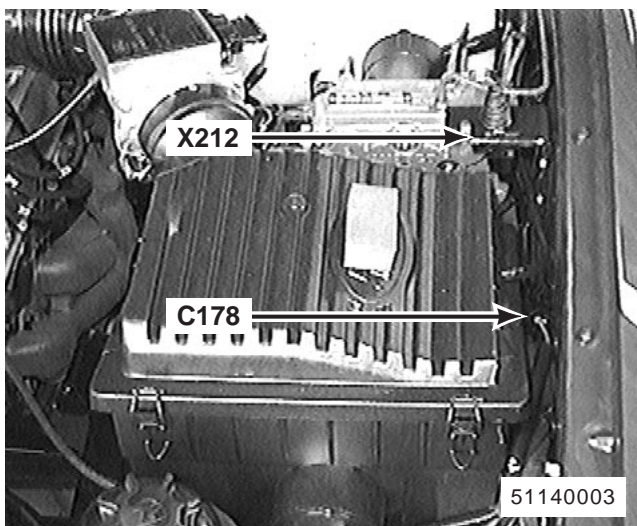
224. behind RH side of rear bumper  
B156 Right Tail Lamp  
B165 Right Rear Indicator Lamp  
C444 (2-R)  
C445 (2-B)



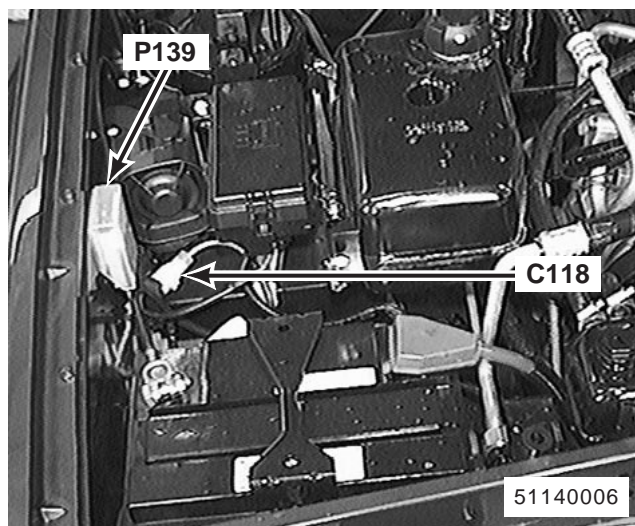
225. centre rear of vehicle  
 X172 Trailer Auxiliary Socket  
 C400 (7-B)



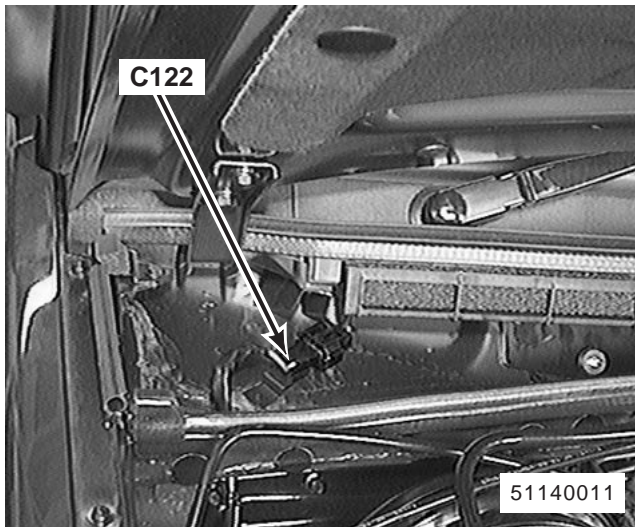
226. LH rear corner of engine compartment  
 C121 (2-B)



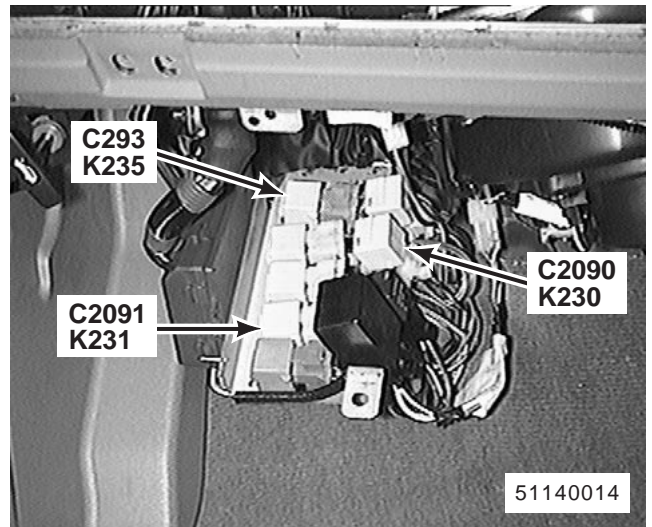
227. LH side of engine compartment  
 X212 Alarm Bonnet Switch  
 C178 (2-B)



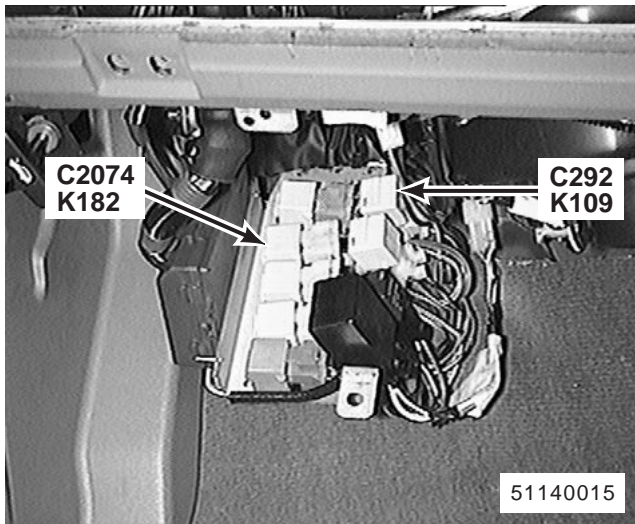
228. RH front of engine compartment  
 P139 Heated Front Screen In-Line Maxi-Fuse  
 C118 (1-W)



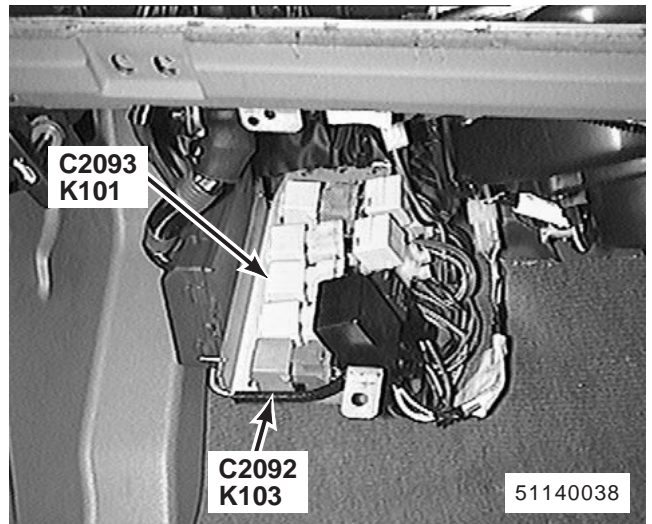
229. RH rear corner of engine compartment  
C122 (2-B)



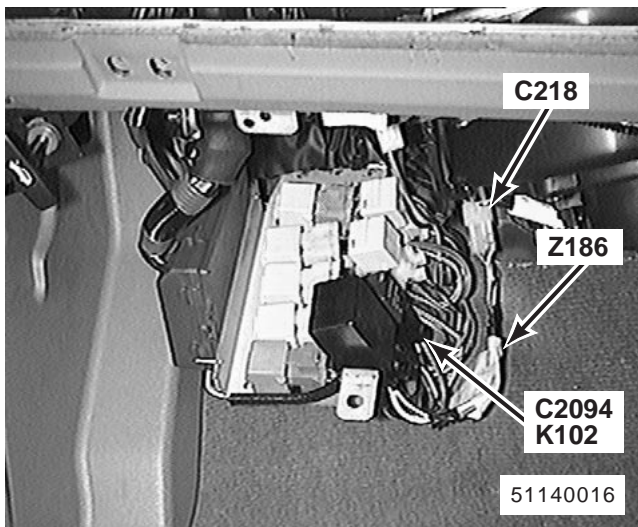
230. behind LH side of fascia (Manual Transmission)  
K230 Front Fog Lamps Relay  
K231 Rear Fog Lamps Relay  
K235 Dim/Dip Relay 1  
C293 (5-U)  
C2090 (5-Y)  
C2091 (5-G)



231. behind LH side of fascia (Manual Transmission)  
K109 Condenser Fan Relay  
K182 Power Wash Relay  
C292 (5-Y)  
C2074 (5-Y)



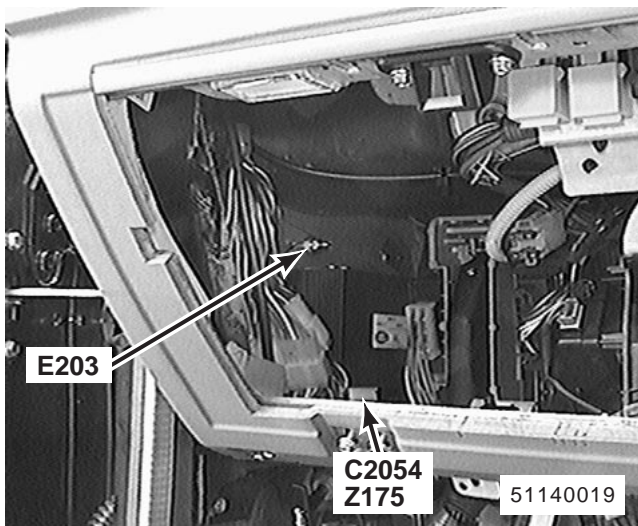
232. behind LH side of fascia (Manual Transmission)  
K101 A.B.S. Load Relay  
K103 A.B.S. Warning Relay  
C2092 (5-G)  
C2093 (5-Y)



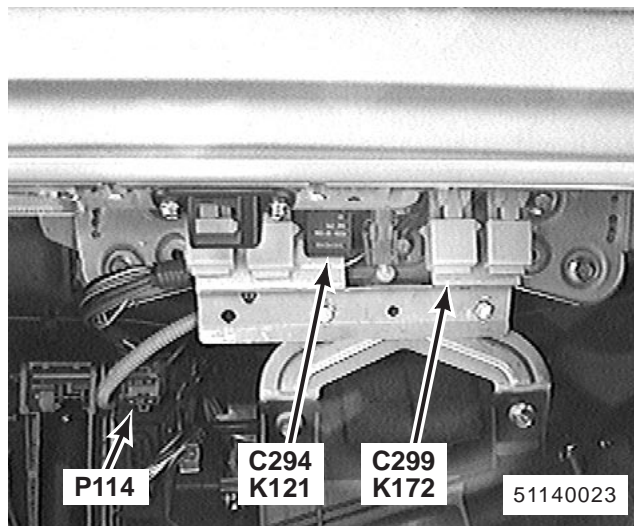
233. behind LH side of fascia (Manual Transmission)  
 K102 A.B.S. Pump Relay  
 Z186 Cruise Control Diode  
 C218 (8-W)  
 C2094 (4-B)



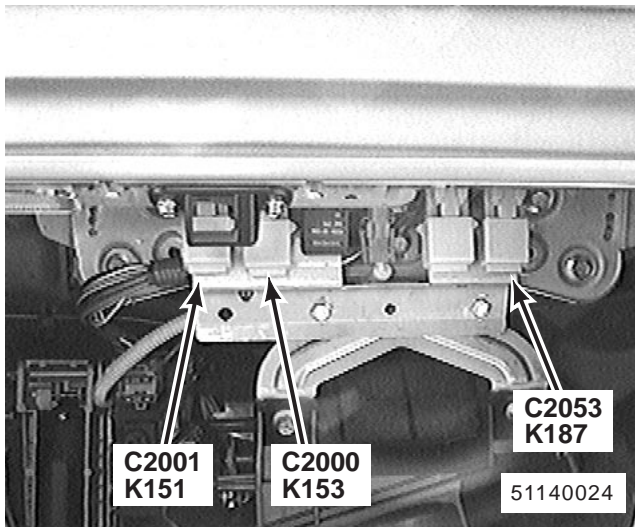
234. behind LH side of fascia (Manual Transmission)  
 Z164 Speed Trip Module  
 C2021 (5-B)



235. behind LH side of fascia  
 Z175 Radio Amplifier  
 C2054 (18-W)  
 E203



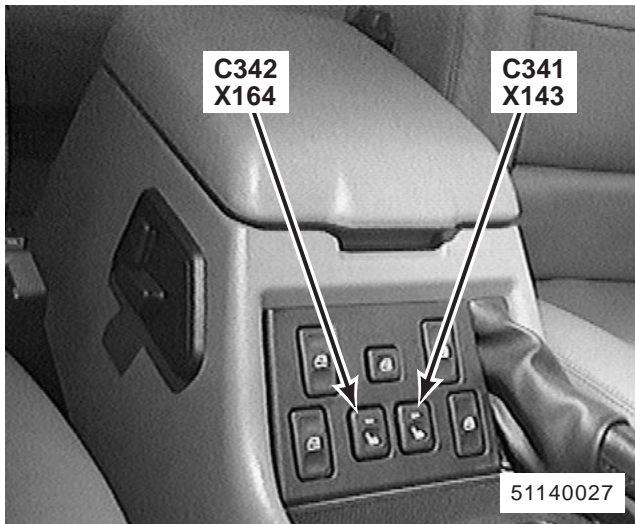
236. behind LH side of fascia (Japan)  
 K121 Heated Front Screen Relay  
 K172 Catalyst Warning Relay  
 P114 Heated Front Screen Fuse Block  
 C294 (4-W)  
 C299 (5-Y)



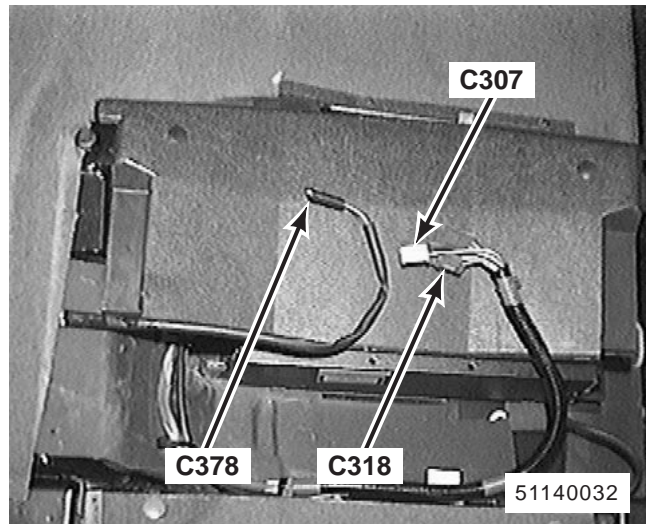
237. behind LH side of fascia  
 K151 Interlock Relay 2  
 K153 Interlock Relay 1  
 K187 Power Amplifier Relay  
 C2000 (5-Y)  
 C2001 (5-Y)  
 C2053 (5-Y)



238. centre of fascia  
 X131 Heated Front Screen Switch  
 C265 (5-B)



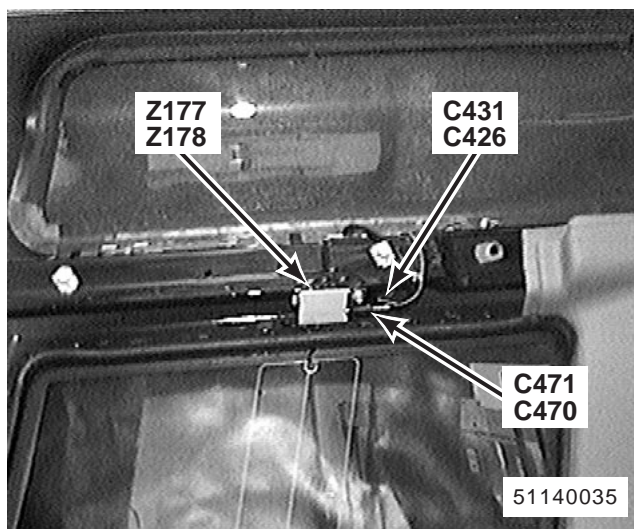
239. in rear of centre console  
 X143 Left Seat Heat Switch  
 X164 Right Seat Heat Switch  
 C341 (5-W)  
 C342 (5-G)



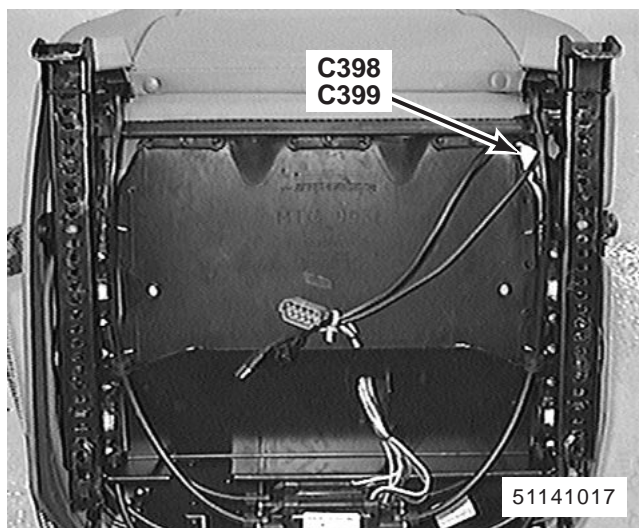
240. beneath RH front seat  
 C307 (2-BW)  
 C318 (9-R)  
 C378 (2-B)



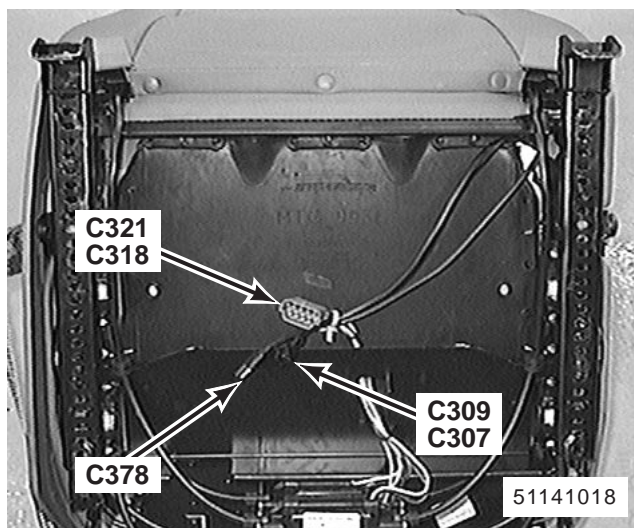
241. top of LH B-post  
X213 Alarm Sensor  
C335 (4-B)



242. LH rear of roof behind trim panel (RH similar)  
Z177 Left Antenna Amplifier  
Z178 Right Antenna Amplifier  
C426 (1-B) (Right)  
C431 (1-B) (Left)  
C470 (2-) (Right)  
C471 (2-) (Left)



243. underside of LH front seat (RH similar)  
C398 (2-W)  
C399 (2-W)

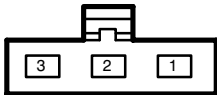


244. underside of LH front seat (RH similar)  
C307 (2-BW) (Right)  
C309 (2-BW) (Left)  
C318 (9-R) (Right)  
C321 (9-U) (Left)  
C378 (2-B) (Right)



R030036

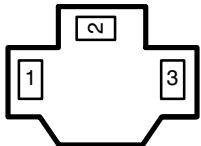
**C100**



1	NLG
2	PW
3	OK

R030005

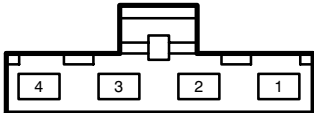
**C103**



1	UO
2	UB
3	B

R040031

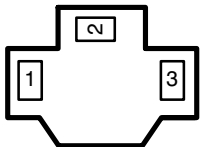
**C101**



1	PN	3	NG
2	-	4	OS

R030005

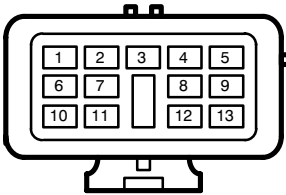
**C104**



1	US
2	UK
3	B

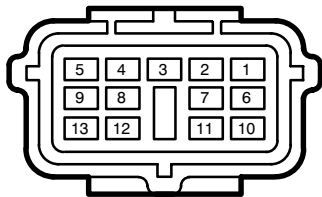
R130001

**C105**



1	BU	6	SB	11	BO/BY
2	BR	7	BK	12	RY
3	GN	8	BG	13	-
4	GY	9	YB		
5	B	10	BY		

R130002



1	BO	6	SB	11	BO
2	BR	7	BK	12	-
3	GN	8	BLG	13	-
4	GY	9	BY		
5	B	10	BY		

### C109

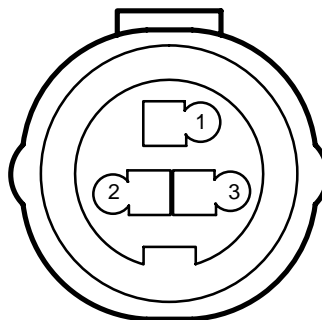
R020058



1	RB
2	B

### C113

R030039



1	WO
2	B
3	U

### C110

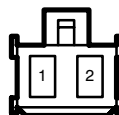
R020058



1	RO
2	B

### C114

R020065

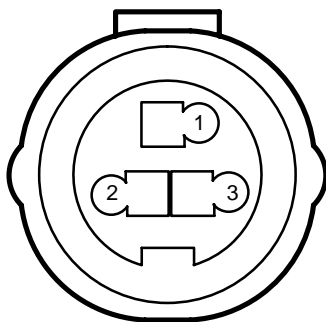


1	NK
2	NW

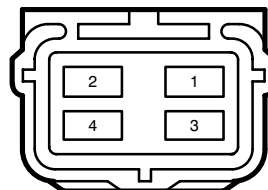
R030039

### C112

R040001



1	WO
2	B
3	U



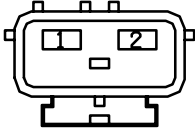
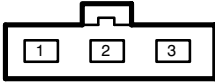
1	UY	3	B
2	UW	4	NU

R030035

afu3814

**C115**

**C122**



1	NP
2	NP
3	NO

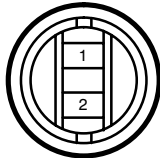
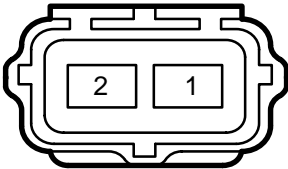
1	PK
2	B

R020037

R020061

**C120**

**C123**



1	B
2	LGS

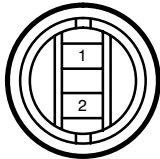
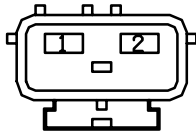
1	GW
2	B

afu3814

R020061

**C121**

**C124**

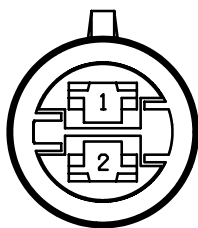


1	PS
2	B

1	GR
2	B

### C125

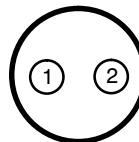
afu3727



1	NR
2	B

### C130

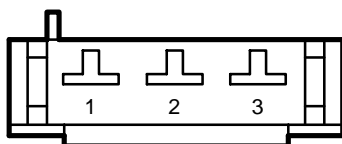
R020007



1	G
2	G

### C127

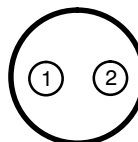
R030037



1	LGK
2	B
3	-

### C131

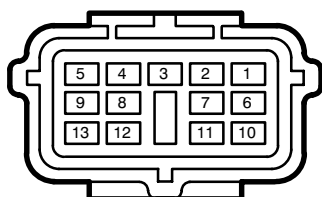
R020007



1	G
2	G

### C129

R130002

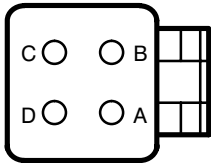


1	SR	6	B	11	SW
2	SY	7	SU	12	SP
3	-	8	SN	13	B
4	SG	9	B		
5	SK	10	B		

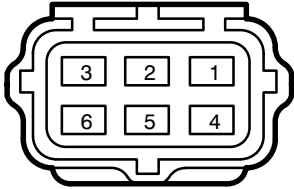
R040019

**C132**

R060016



A	O	C	GW
B	US	D	RG

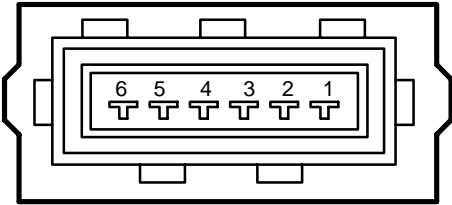


1	OS	4	OU
2	NK	5	-
3	KU	6	OG

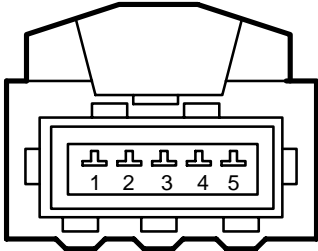
R060025

**C133**

R050023



1	-	4	-
2	RB	5	NO
3	UG	6	UR



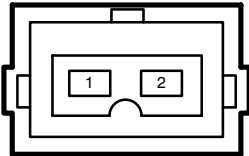
1	YB	4	B
2	UG	5	-
3	UR		

R020060

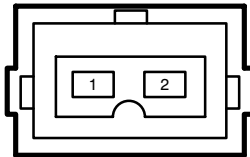
**C134**

R020060

**C135**

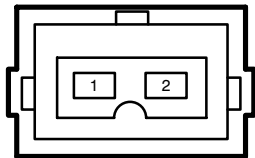


1	YU/NK
2	NO/YU



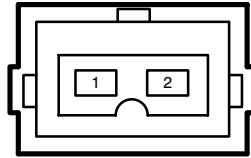
1	YW/NK
2	NO/YG

R020060

**C136**

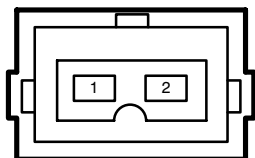
1	YU/NK
2	NO/YW

R020060

**C139**

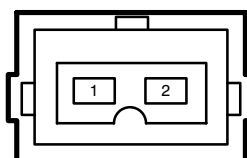
1	YW
2	NO

R020060

**C137**

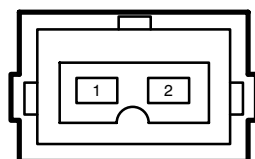
1	YW/NK
2	NO/YB

R020060

**C140**

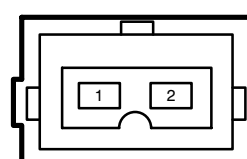
1	YU
2	NO

R020060

**C138**

1	YU
2	NO

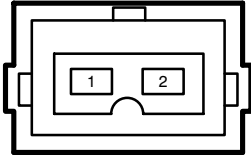
R020060

**C141**

1	YW
2	NO

R020060

**C142**



1	WN
2	-

R020058

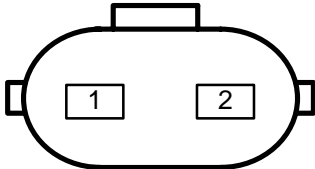
**C146**



1	BP
2	B

R020045

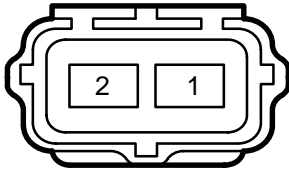
**C144**



1	WP/NK
2	SY/RS

R020037

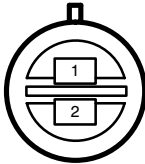
**C148**



1	U
2	R

R020063

**C145**

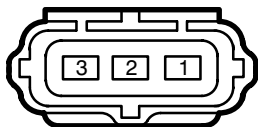


1	BG
2	B

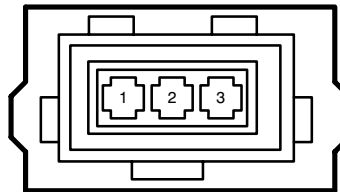
R030003

### C149

R030041



1	Y
2	R
3	RB

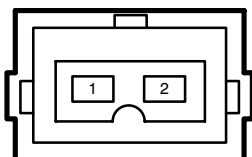


1	KP
2	GY
3	KB

R020060

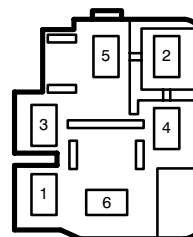
### C150

R060023



1	RB/YU
2	SW/KB

### C159

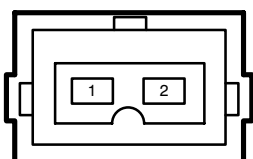


1	B/WR	4	B
2	BY	5	NO
3	B/WG	6	YB

R020060

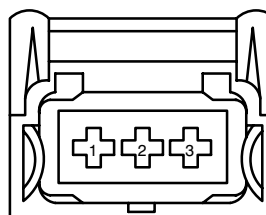
### C152

R030046



1	RB/GU/KB/GU
2	GU/KB/KG/B

### C160



1	KB
2	R
3	RB



**C162**

R020058



1	YB
2	G

**C166**

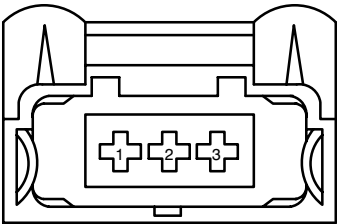
R020058



1	B
2	BLG

**C164**

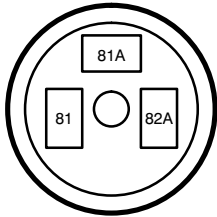
R030047



1	RB
2	KB
3	RU

**C167**

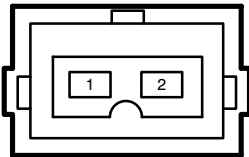
R030042



81	BY
81a	BR
82a	WU

**C165**

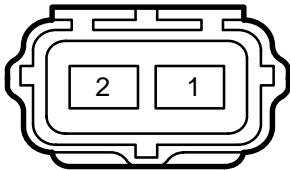
R020060



1	B/NO
2	BO/SR

**C168**

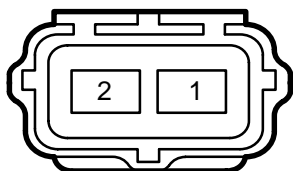
R020037



1	B
2	PG

**C169**

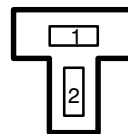
R020037



1	B
2	PG

**C173**

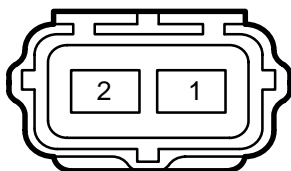
R020015



1	LGR
2	B

**C170**

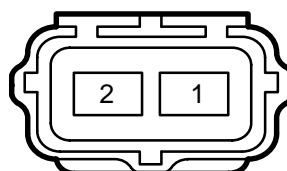
R020037



1	B
2	LGB

**C177**

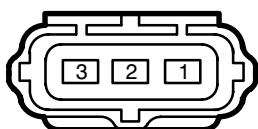
R020037



1	NP
2	NO

**C171**

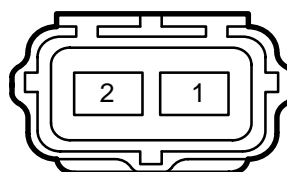
R030003



1	WP
2	-
3	WP

**C178**

R020037



1	B
2	PO

R020064

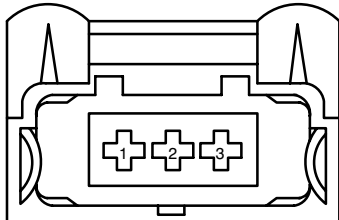
R030047

**C181**

**C190**



1	YB
2	ON



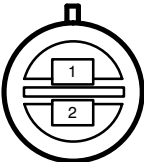
1	B
2	UY
3	RB

R020063

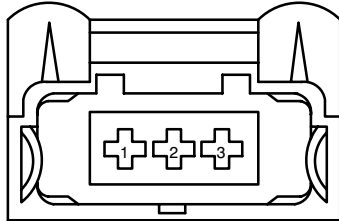
R030047

**C182**

**C191**



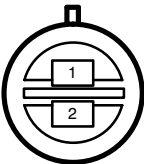
1	BN
2	B



1	B
2	UY
3	RB

R020063

**C183**

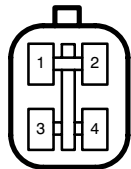


1	BN
2	B

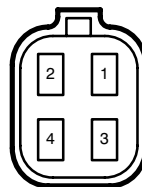
R040032

R040041

### C195



1	WS	3	WP
2	B	4	WG



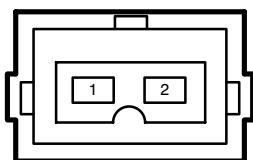
1	S	3	K
2	N	4	W

R020060

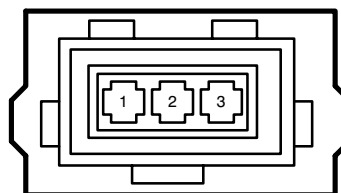
R030041

### C196

### C197



1	NB
2	B

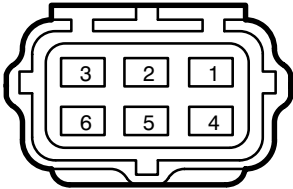


1	Y
2	B
3	B

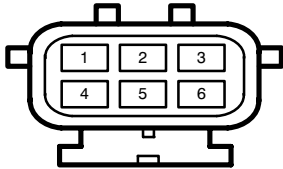
R060016

**C198**

R060017



1	NK	4	YG
2	YB	5	YU
3	WB	6	-



1	NK	4	YG
2	YB	5	YU
3	YW	6	-

ypc10181



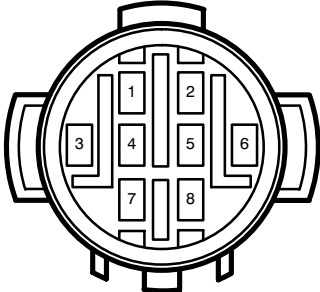
1	NS
2	NO
3	W

R080021

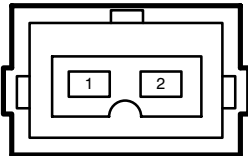
**C199**

R020060

**C1000**



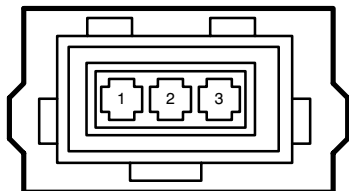
1	-	5	B
2	WS	6	GK
3	WP	7	R
4	NO	8	GO



1	KO/KS
2	KB/B

**C1001**

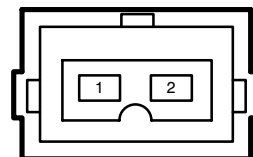
R030041



1	YU
2	YG
3	B

**C1004**

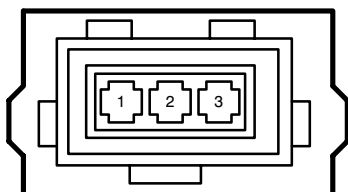
R020060



1	WU
2	UP

**C1002**

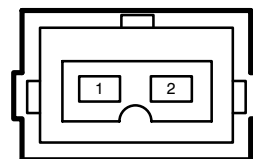
R030041



1	-
2	NK
3	YU

**C1005**

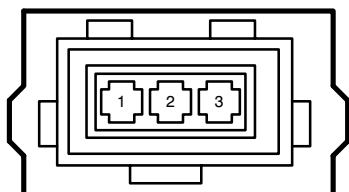
R020060



1	KB
2	LGS

**C1003**

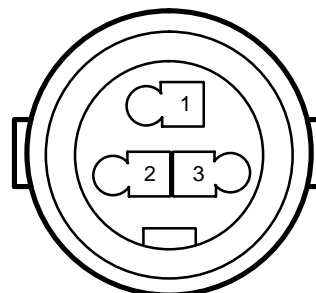
R030041



1	-
2	NK
3	WB

**C1006**

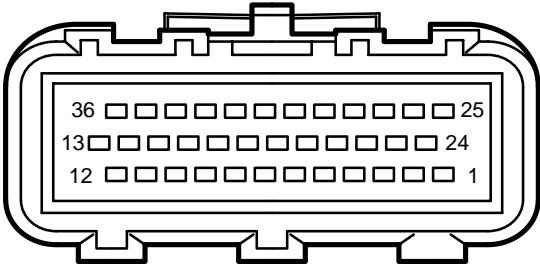
R030038



1	KB
2	BO
3	BG

R360002

**C1007**

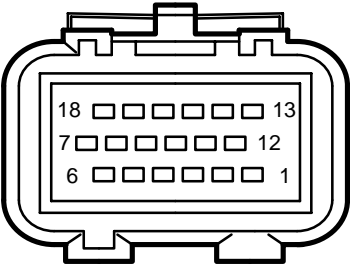


1	YU	7	UY	13	BK	19	BS	25	YU	31	UP
2	KU	8	GY	14	B	20	UP	26	YG	32	WU
3	OS	9	KP	15	BG	21	RS	27	OU	33	KG
4	YN	10	BO	16	KO	22	OG	28	NK	34	YU
5	-	11	WG	17	LGS	23	WB	29	B	35	BN
6	BP	12	-	18	UW	24	YB	30	KB	36	U

R180007

R020037

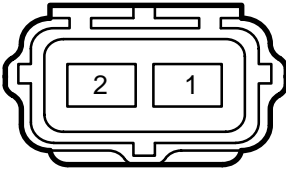
**C1008**



1	-	6	-	11	B	16	-
2	-	7	-	12	-	17	-
3	-	8	-	13	-	18	WB
4	-	9	-	14	-		
5	B	10	-	15	-		

R020037

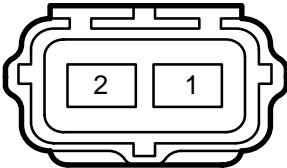
**C1010**



1	GW
2	B

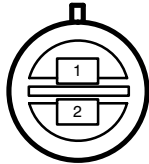
R020063

**C1009**



1	GR
2	B

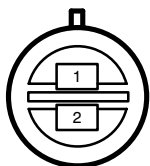
**C1011**



1	US/BR
2	B

**C1012**

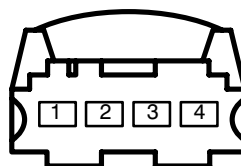
R020063



1	BR
2	B

**C1031**

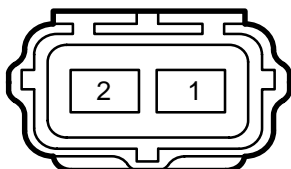
R040040



1	B	3	B
2	B	4	B

**C1024**

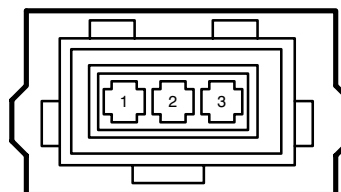
R020037



1	UP
2	B

**C1035**

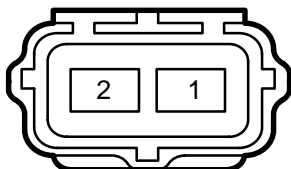
R030041



1	W
2	-
3	W

**C1025**

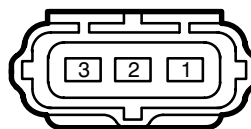
R020037



1	UP
2	B

**C1036**

R030003

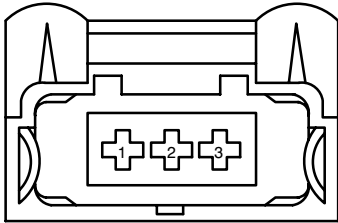


1	U
2	B
3	R



**C1040**

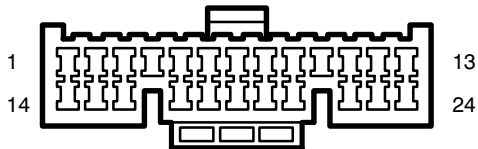
R030047



1	B
2	B
3	B

**C204**

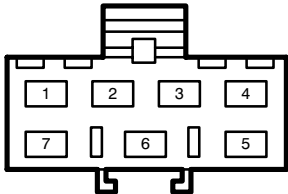
R240008



1	UB	7	-	13	UK	19	-
2	-	8	G	14	LGP	20	GY
3	GW	9	WR	15	LGN	21	RB
4	RB	10	GO	16	WN	22	LGP
5	GR	11	UO	17	P	23	GS
6	UR	12	RO	18	GLG	24	US

**C201**

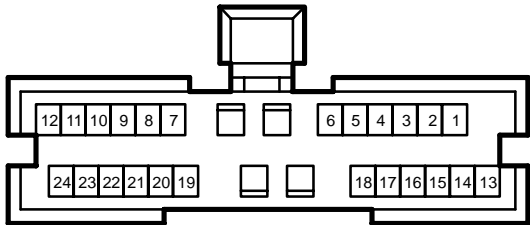
R070013



1	U	5	UW
2	UB/UR	6	NP
3	NG	7	PO
4	R		

**C205**

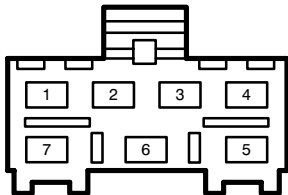
R240003



1	PU	7	RW	13	LGB	19	BP
2	G	8	WLG	14	Y	20	UP
3	-	9	LGG	15	OU	20	WP
4	B	10	BK	16	LGS	22	NS
5	PW	11	B	17	U	23	NP
6	RY	12	WR	18	PG	24	PY

**C203**

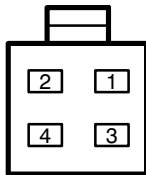
R070015



1	UR	5	LGW
2	NP	6	W
3	R	7	NP
4	W		

**C206**

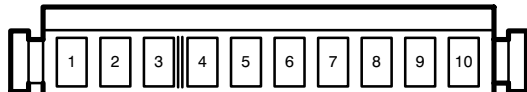
R040013



1	R	3	B
2	OS	4	UW

R100023

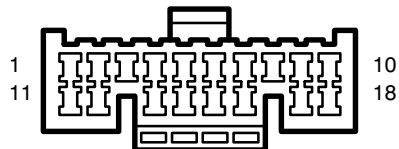
### C207



1	-	4	G	6	LGU	8	P
2	BS	5	WS	7	RN	9	LGG
3	UW					10	BLG

R180008

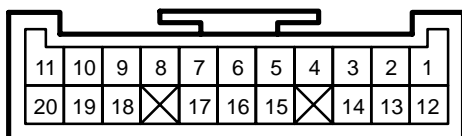
### C208



1	-	6	WN	11	G	16	-
2	-	7	-	12	-	17	GW
3	-	8	-	13	-	18	GR
4	UW	9	B	14	RO		
5	-	10	BO	15	LG		

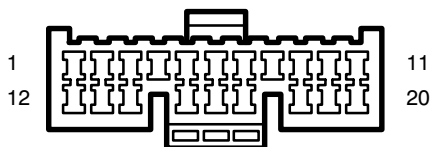
R200002

### C209



1	RN	6	BY/WR	11	BP	16	G
2	RS	7	SW	12	WY	17	YK
3	-	8	BU	13	LGO	18	PS
4	RW	9	BK	14	GO	19	BP
5	BR	10	BN	15	GLG	20	BS

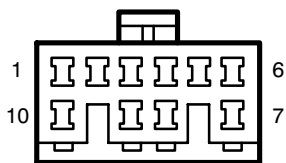
R200011



1	RN	6	PO	11	BP	16	G
2	RS	7	SW	12	WY	17	YK
3	UB	8	BU	13	LGO	18	PS
4	RW	9	BK	14	GO	19	PB
5	BR	10	BN	15	GLG	20	BS

R100020

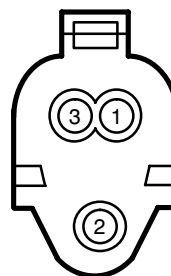
### C211



1	GW	4	-	6	-	8	-
2	RB	5	-	7	RO	9	NP
3	GR					10	-

R030026

### C214

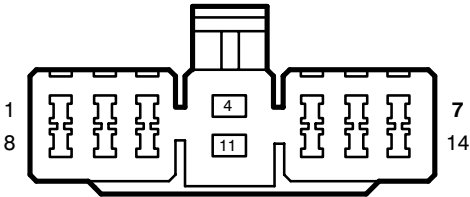


1	RN
2	RO
3	B

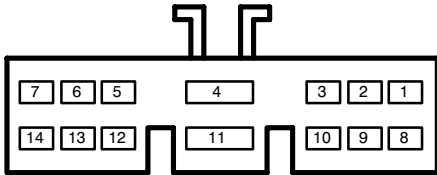
R140008

**C212**

R140009



1	SCR	6	BY	11	NG
2	B	7	BO	12	BU
3	R	8	YU	13	PY
4	PN	9	WG	14	BG
5	BG	10	YO		

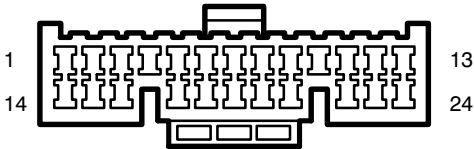


1	SCR	6	BY	11	NG
2	B	7	BO	12	BU
3	R	8	W	13	PY
4	PN	9	WG	14	BG
5	BG	10	UW		

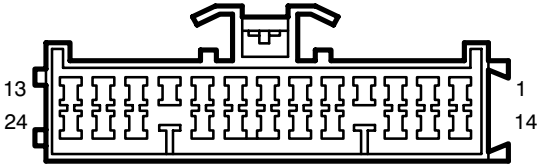
R240008

**C215**

R240007



1	PN	7	RY	13	KO	19	BLG
2	WS	8	UY	14	OU	20	LGN
3	G	9	PN	15	GU	21	UP
4	BY	10	WR	16	GY	22	LGK
5	LGP	11	RY	17	LGS	23	-
6	GB	12	BG	18	BO	24	NY

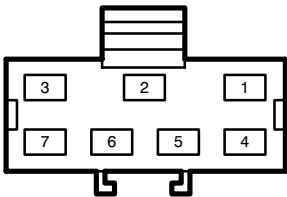


1	PN	7	RT	13	KO	19	BLG
2	WS	8	UY	14	OU	20	LGN
3	G	9	PN	15	GU	21	UP
4	BY	10	WR	16	GY	22	LGK
5	LGP	11	RY	17	LGS	23	-
6	GB	12	NP	18	BO	24	NY

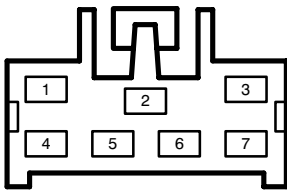
R070012

**C216**

R070014



1	NLG/-	5	BR/-NG
2	B/-WP	6	BG
3	PW/-	7	WG/B
4	B/NR		

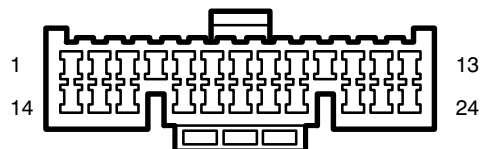
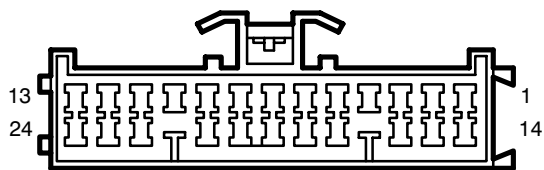


1	NLG	5	BN/NG
2	WP	6	BG
3	PW	7	WG
4	NR		

R240007

### C217

R240008



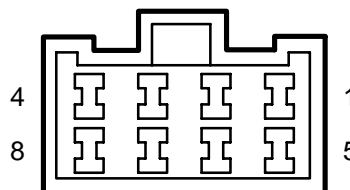
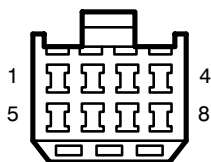
1	GW/-	7	-/GP	13	PY/-/WLG	19	WS
2	PB/-	8	-/B/LGP	14	-/WK	20	GU
3	WG/-	9	-/BY	15	-/B	21	-/BK/BS
4	NY	10	YB	16	WU/-	22	GLG
5	NG	11	OB/-	17	BP	23	GLG/GY
6	RS/-	12	YK/-	18	WN	24	B/-

1	GW	7	GP	13	KR/PS	19	WS
2	PB,PB	8	KB	14	LGR	20	GU
3	WG	9	BY	15	KR	21	B
4	NY	10	YB	16	WU	22	GLG
5	NG	11	OB	17	BP	23	GY
6	RS	12	YK	18	WN	24	BK

R080026

### C218

R080030



1	WU	5	PY
2	BY	6	P
3	PW	7	B
4	WY	8	-

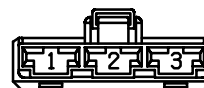
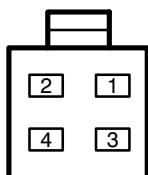
1	WU/-	5	P/PY
2	-/BY	6	P/-
3	PW/-	7	B/-
4	WY	8	-

R040013

### C219

ypc10428

### C220



1	-	3	W
2	Y	4	WR

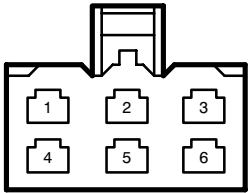
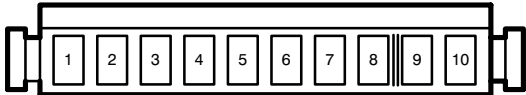
1	NW
2	LG
3	-

R100016

R060028

**C221**

**C224**



1	B	4	YK	6	BO	8	LG
2	BR	5	NY	7	PO	9	WR
3	GB					10	BY

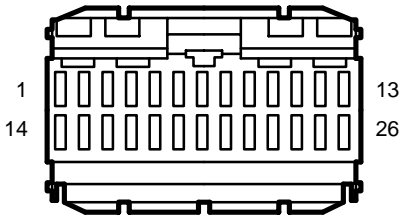
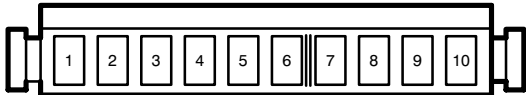
1	B	4	GS
2	NLG	5	RLG
3	ULG	6	-

R100022

R260001

**C222**

**C225**



1	RS	4	-	6	RW	8	GU
2	LG	5	WN	7	-	9	RN
3	KO					10	-

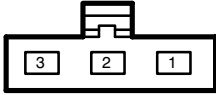
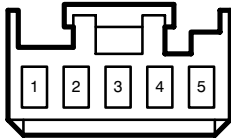
1	PW	8	UG	15	B	22	-
2	-	9	PO	16	PW	23	-
3	WB	10	GK	17	KB	24	-
4	-	11	RS	18	-	25	P
5	PG	12	-	19	-	26	WB
6	-	13	-	20	BN		
7	YK	14	BK	21	-		

R050025

R030036

**C223**

**C226**

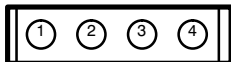


1	G	4	-
2	-	5	S
3	P		

1	LGW
2	WY
3	-

R040038

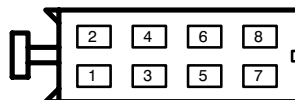
### C227



1	GP	3	WR
2	GO	4	WS

R080025

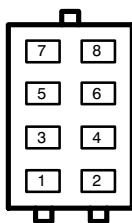
### C230



1	-	5	UY
2	B	6	RN
3	U	7	LG0
4	P	8	B

R080022

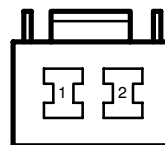
### C228



1	BK	5	BP
2	BN	6	GLG
3	SW	7	BU
4	B	8	-

R020066

### C232

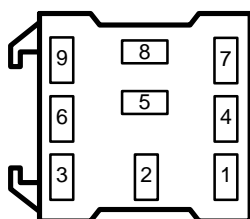


1	BK
2	BR

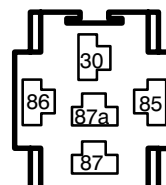
R090002

### C238

R050001



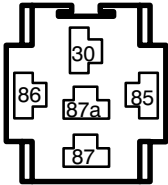
1	-	4	BR	7	-
2	NO	5	BG	8	GW
3	-	6	B	9	PB



30	NG	87	US
85	BP	87a	-
86	WG		

R050001

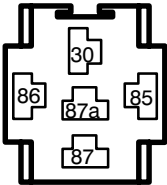
**C239**



30	NLG	87	NO
85	UR	87a	NO/-
86	NO/NLG		

R050001

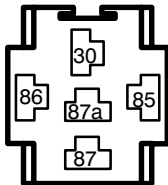
**C241**



30	NG	87	BG
85	BS/WG	87a	-/BG
86	WG/G/BS		

R050001

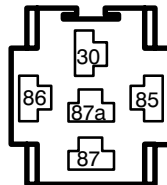
**C240**



30	PW	87	B,WP
85	UP	87a	WO,WO
86	WG		

R050001

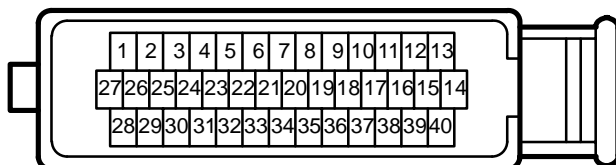
**C242**



30	WG/BN/NG/YG	87	GY/B/BG/WG
85	WG/YB	87a	-
86	YB/WG/G		

R400001

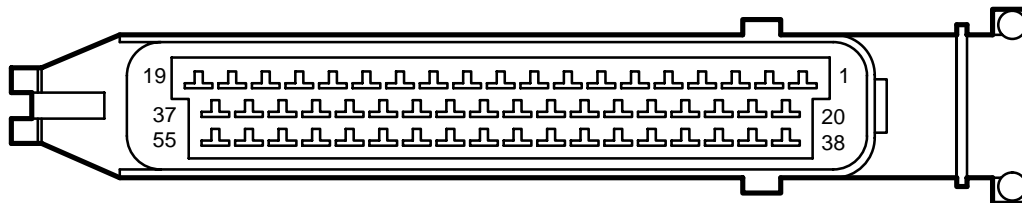
### C243



1	RG	7	GU	13	YU	19	WG	25	RB	31	-	37	-
2	NO	8	PY	14	B	20	R	26	GW	32	SW	38	-
3	Y	9	WLG	15	NO	21	GY	27	BS	33	BS	39	WU
4	B	10	RS	16	UP	22	UR	28	US	34	OB	40	B
5	SB	11	YW	17	SY	23	U	29	O	35	UG		
6	YK	12	UR	18	WK	24	U	30	-	36	BG		

R550002

### C243

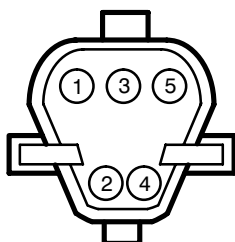


1	WP	8	-	15	UR	22	-	29	YK	36	KS	43	-	50	-
2	WP	9	BS	16	NO	23	-	30	-	37	WG	44	YB	51	YU
3	W	10	NS	17	NO	24	-	31	LGP	38	UG	45	BS	52	YB
4	RS	11	-	18	B	25	WS	32	-	39	GK	46	-	53	GU
5	NB	12	B	19	B	26	GP	33	WP	40	-	47	Y	54	YG
6	SR	13	B	20	-	27	WK	34	UR	41	-	48	-	55	WG
7	-	14	R	21	GO	28	OB	35	WS	42	WLG	49	-		

R050013

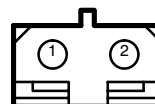
R020069

### C245



1	WK	4	WLG
2	-	5	BS
3	-		

### C246

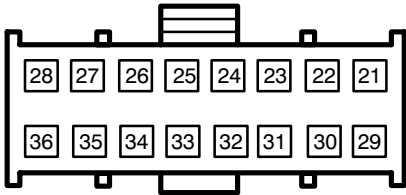


1	BS
2	SB



R160003

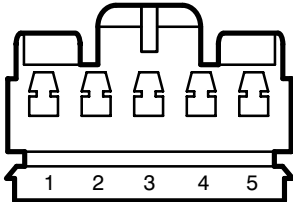
**C247**



21	KB	25	R	29	B	33	WK
22	-	26	GU	30	-	34	RU
23	-	27	-	31	-	35	RB
24	BO	28	B	32	WLG	36	WS

R050024

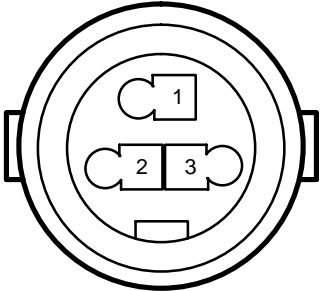
**C249**



1	GLG	4	LGS
2	RN	5	B
3	-		

R030038

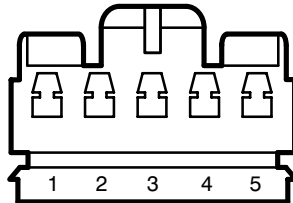
**C248**



1	KB
2	WLG
3	WK

R050024

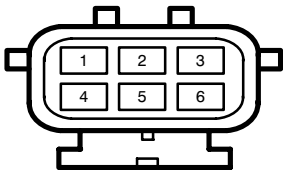
**C250**



1	GLG	4	OU
2	RN	5	B
3	-		

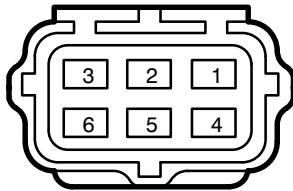
R060017

**C252**



1	P	4	B
2	LGP	5	G
3	S	6	G

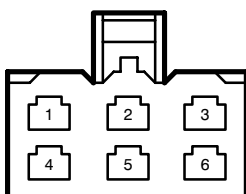
R060016



1	P	4	B
2	LG	5	G
3	S	6	G

R060028

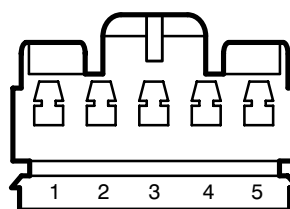
**C259**



1	B	4	RN
2	UY	5	RO
3	-	6	-

R050024

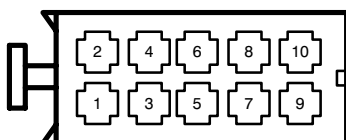
**C263**



1	RY	4	B
2	RN	5	RY
3	-		

R100015

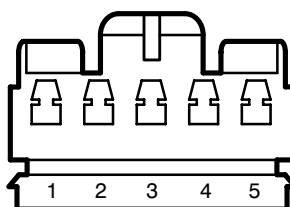
**C260**



1	R	4	-/B	6	B	8	B
2	-/B	5	Y	7	U	9	R
3	G			10	B		

R050024

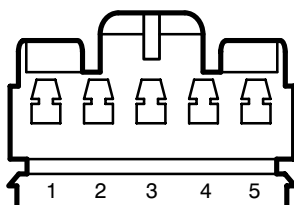
**C264**



1	BO	4	B
2	RN	5	BG
3	-		

R050024

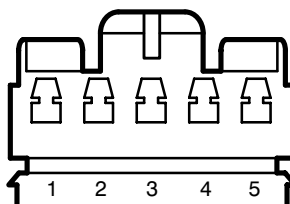
**C262**



1	GY	4	WY
2	RN	5	B
3	-		

R050024

**C265**



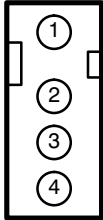
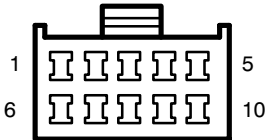
1	BP	4	B
2	RN	5	PS
3	-		

R100017

R040008

**C267**

**C270**



1	GO	4	RN	6	LGN	8	LGG
2	PN	5	B	7	GR	9	GW
3	LGP					10	-

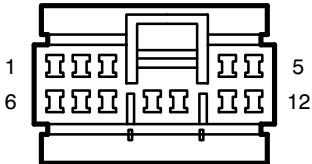
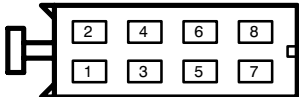
1	PN	3	RN
2	B	4	LG

R080025

R120005

**C268**

**C274**

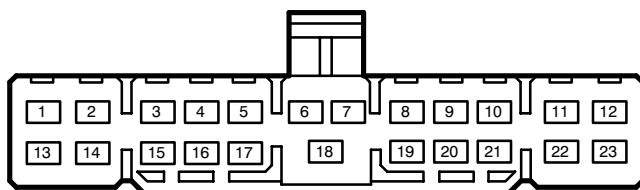


1	NY/BG	5	B/BW
2	U/BU	6	BN
3	UG/BK	7	BY
4	RG/BR	8	BO

1	GW	5	OB	9	WR
2	O	6	GR	10	BO
3	K	7	SR	11	BO
4	RW	8	PN	12	PK

R230004

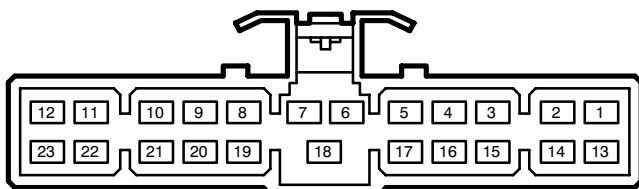
### C277



1	GN	7	K	13	-	19	RB
2	WP	8	O	14	-	20	WB
3	WP	9	GP	15	-	21	BN
4	NG	10	PU	16	RO	22	RY
5	GLG	11	GR	17	GW	23	GB
6	-	12	LGO	18	NP		

R230003

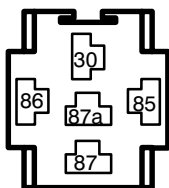
### C277



1	GN	7	K	13	-	19	RB
2	PW	8	O	14	-	20	WB
3	WP	9	GP	15	-	21	BN
4	NG	10	PU	16	RO	22	RY
5	GLG	11	GR	17	GW	23	GB
6	-	12	LGO	18	NP		

R050001

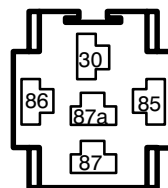
### C280



30	P	86	P
85	OB	87	PB
87a	-		

R050001

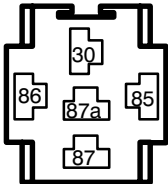
### C281



30	NG	86	GLG
85	NP	87	GLG
87a	B		

R050001

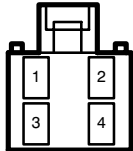
**C282**



30	NW	86	B
85	LG	87	LGW
87a	-		

R040036

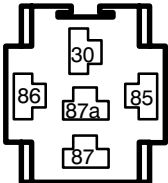
**C285**



1	B	3	GLG
2	BW	4	UW

R050001

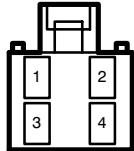
**C283**



30	PN	86	PO
85	PN	87	PG
87a	-		

R040036

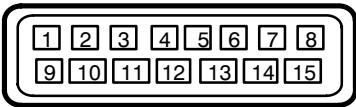
**C286**



1	B	3	GLG
2	BW	4	UW

R150001

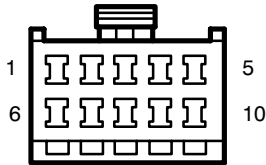
**C284**



1	WU	6	BY	11	YK
2	-	7	BR	12	-
3	RW	8	B	13	-
4	UW	9	PG	14	-
5	GP	10	WY	15	-

R100021

**C287**

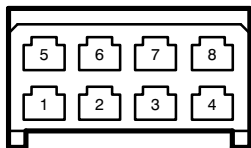


1	BU	4	-	6	-	8	-
2	WG	5	BK	7	BS	9	PG
3	LGP					10	BR

### C288

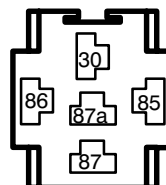
R080027

R050001



1	SU	5	PS
2	SK	6	B
3	SR	7	SB
4	WK	8	PN

### C293

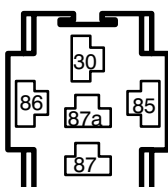


30	UR	86	B
85	NP	87	NO
87a	-		

### C292

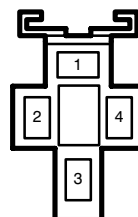
R050001

R040033



30	NG	86	BP
85	GW	87	BN
87a	-		

### C294

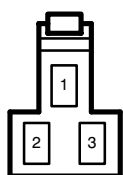


1	PO	3	OS
2	PT	4	LGP

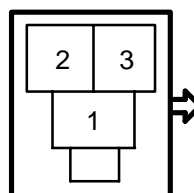
R030043

### C298

R030004



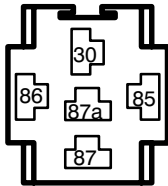
1	-
2	NK
3	B



1	-
2	R
3	WB

R050001

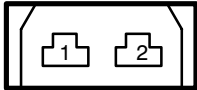
**C299**



30	WR	86	B
85	UW,UW	87	B
87a	-		

R020032

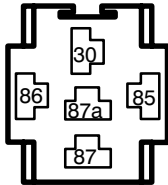
**C2005**



1	PY
2	PG

R050001

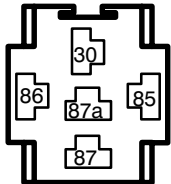
**C2000**



30	WP	86	WP
85	BK	87	RB
87a	-		

R050001

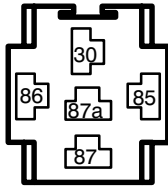
**C2006**



30	NW	86	BO
85	WR	87	NR
87a	-		

R050001

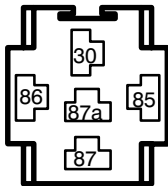
**C2001**



30	WY	86	BR
85	YB	87	SB
87a	-		

R050001

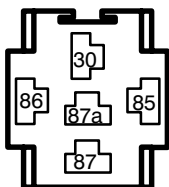
**C2007**



30	NG	86	B
85	LGP	87	WG
87a	-		

### C2008

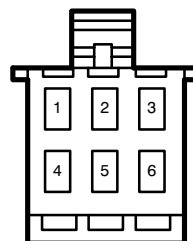
R050001



30	LGP	86	NS
85	GS	87	GS
87a	NLG		

### C2011

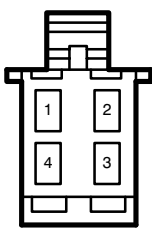
R060029



1	-	4	B
2	-	5	-
3	-	6	WLG

### C2009

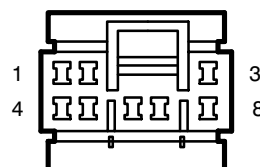
R040037



1	GR	3	-
2	LGN	4	GW

### C2012

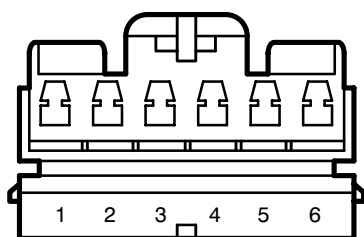
R080023



1	-	5	BR
2	-	6	WP
3	OW	7	P
4	P	8	PU

### C2010

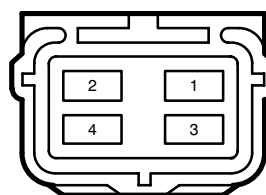
R060030



1	WY	4	RW
2	-	5	PO
3	UW	6	-

### C2013

R040001

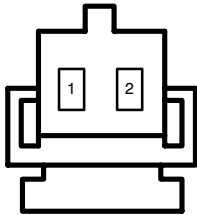


1	P	3	P
2	PU	4	WP



R020057

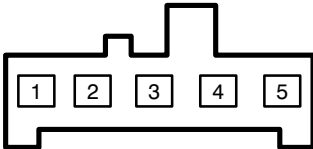
**C2014**



1	OW
2	B

R050006

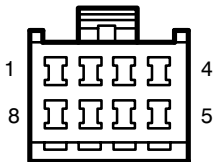
**C2022**



1	WB	4	PU
2	BO	5	N
3	G		

R080024

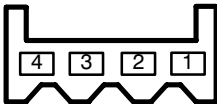
**C2015**



1	GS	5	GS
2	LGG	6	-
3	ULG	7	LGP
4	RLG	8	LGB

R040004

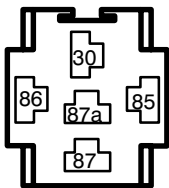
**C2023**



1	S	3	WB
2	UR	4	LG

R050001

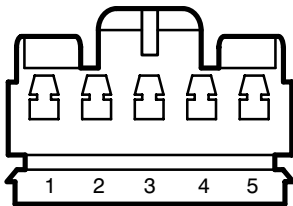
**C2021**



30	WS/WU	86	WS
85	BY/B	87	-/PW
87a	PY/-		

R050024

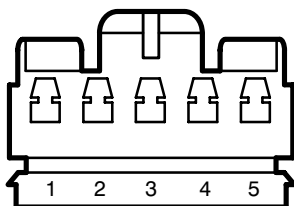
**C2024**



1	W	4	WB
2	LG	5	UW
3	-		

R050024

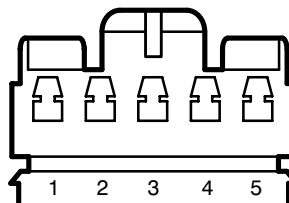
### C2025



1	N	4	NW
2	LG	5	UR
3	WB		

R050024

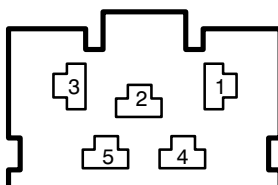
### C2026



1	WB	4	RG
2	LG	5	UR
3	UB		

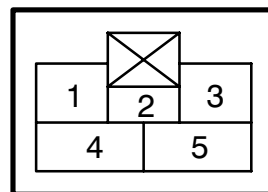
R050003

### C2027



1	WB	4	G
2	N	5	BO
3	PU		

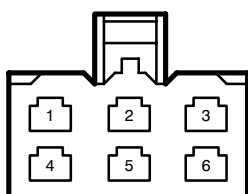
R050027



1	WB	4	G
2	N	5	BO
3	PU		

R060028

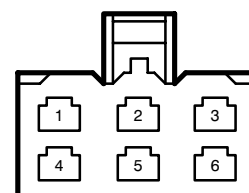
### C2028



1	B	4	B
2	B	5	B
3	B	6	B

R060028

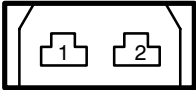
### C2029



1	B	4	B
2	B	5	B
3	B	6	B

**C2035**

R020032

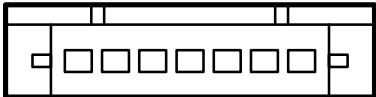


1	PW
2	P

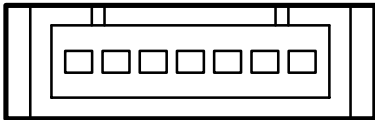
R070001

**C2036**

R070016



1	PB	5	YB
2	W	6	PB
3	R	7	PB
4	GR		



1 2 3 4 5 6 7

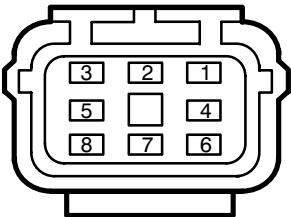
1	PB	5	YB
2	PB	6	PB
3	-	7	-
4	GR		

R080019

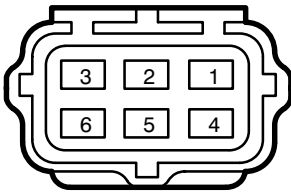
**C2051**

**C2052**

R060016



1	NK	5	NU
2	-	6	NLG
3	NK	7	PW
4	WP	8	NK

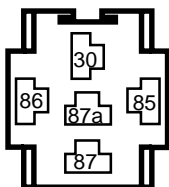


1	UP	4	U
2	WG	5	-
3	YN	6	-

R050001

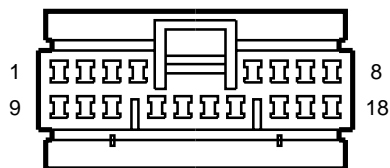
R180006

### C2053



30	NK	86	B
85	LGO	87	LGP
87a	-		

### C2054

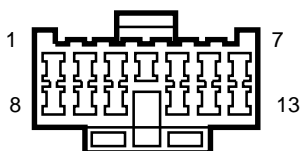


1	R	6	BK	11	B	16	BR
2	G	7	BW	12	B	17	BN
3	Y	8	BY	13	R	18	BO
4	U	9	LGP	14	PY		
5	BG	10	B	15	BU		

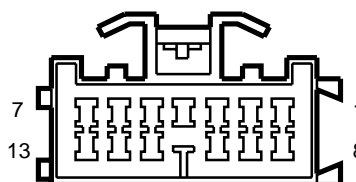
R130009

R130010

### C2055



1	-/G/GB	6	BN	11	SCR
2	-/B/BU	7	-/U/BY	12	UY
3	-/R/BK	8	BO	13	B
4	BR	9	R		
5	-/Y/YB	10	B		

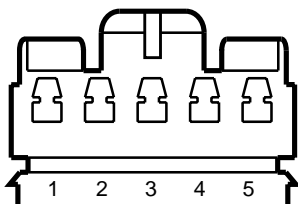


1	-/G/BG	6	BN	11	SCR
2	-/B/BU	7	-/U/BY	12	PY
3	-/R/BK	8	BO	13	B
4	BR	9	R		
5	-/Y/BW	10	B		

R050024

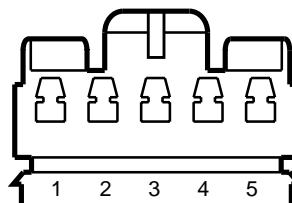
R050024

### C2056



1	UG	4	B
2	RN	5	B
3	-		

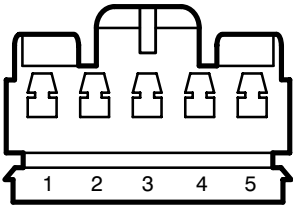
### C2057



1	RG/RK	4	B
2	RN	5	B
3	-		

R050024

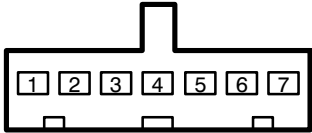
**C2058**



1	NY	4	B
2	RN	5	B
3	-		

R070002

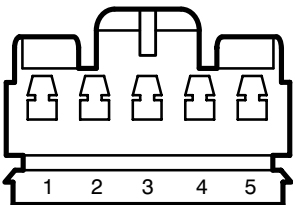
**C2061**



1	-	5	-
2	-	6	R
3	B	7	-
4	-		

R050024

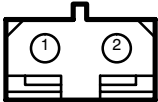
**C2059**



1	U	4	B
2	RN	5	B
3	-		

R020069

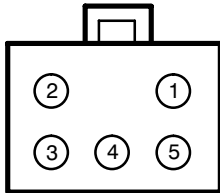
**C2063**



1	GO
2	GP

R050019

**C2060**

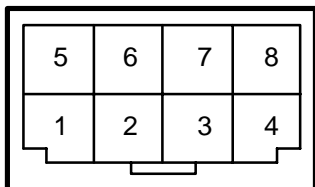


1	U	4	B
2	NY	5	UG
3	RK		

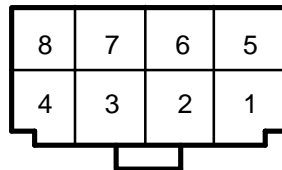
R080001

### C2066

R080002



1	BO	5	UR
2	G	6	UB
3	PU	7	WB
4	N	8	RG

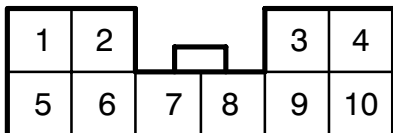


1	BO	5	UR
2	G	6	UB
3	PU	7	WB
4	N	8	RG

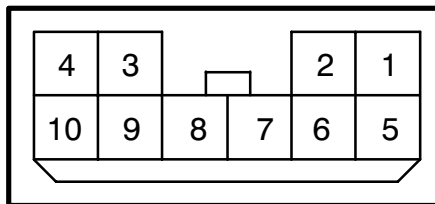
R100003

### C2067

R100001



1	NW	4	S	6	UB	8	WB
2	N	5	RG	7	UW	9	W
3	LG					10	UR

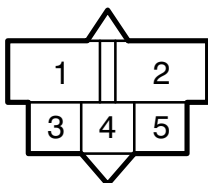


1	NW	4	S	6	UB	8	WB
2	N	5	RG	7	UW	9	W
3	LG					10	UR

R050016

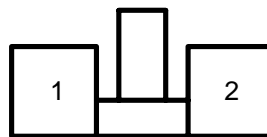
### C2068

R020049



1	R	4	WB
2	WR	5	UR
3	N		

### C2069



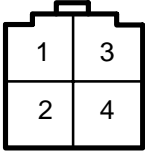
1	BO
2	WR

R040022

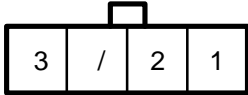
R030015

**C2070**

**C2072**



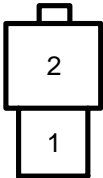
1	BO	3	PU
2	G	4	WB



1	YB
2	UB
3	RG

R020046

**C2071**

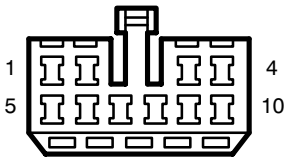


1	YB
2	UR

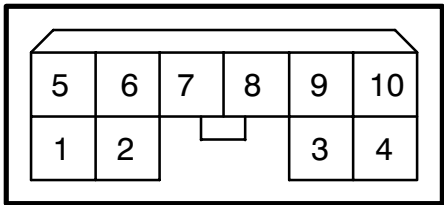
R100019

R100001

**C2073**



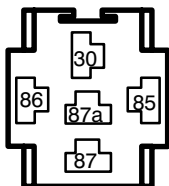
1	YO	4	PB	6	-	8	ON
2	RN	5	YU	7	WG	9	YB
3	B					10	-



1	UW	4	NW	6	-	8	L
2	LG	5	W	7	UR	9	OG
3	P					10	S

### C2074

R050001

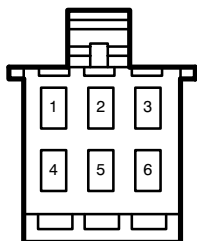


30	PU	86	BK
85	PU	87	LGR
87a	-		

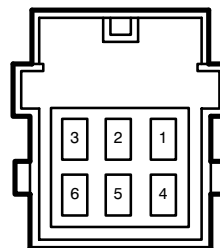
R060029

### C2082

R060027



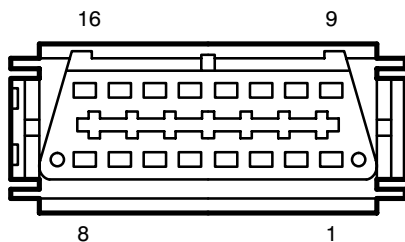
1	-	4	BN
2	-	5	BW
3	LGW	6	-



1	R	4	BN
2	GK	5	BW
3	LGW	6	B

### C2083

R160006

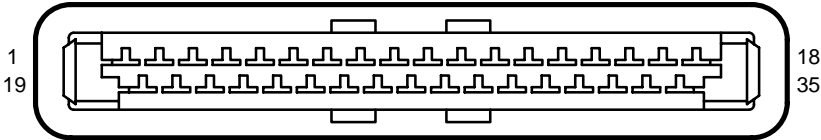


1	-	5	B	9	-	13	YK
2	-	6	-	10	-	14	YLG
3	-	7	KR	11	-	15	LGR
4	B	8	KB	12	-	16	WR



R350003

**C2084**

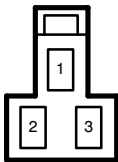


1	NK	6	SR	11	WO	16	W	21	SG	26	BS	31	B
2	-	7	SU	12	-	17	G	22	SP	27	B	32	G
3	-	8	BG	13	KR	18	W	23	SK	28	-	33	W
4	SY	9	WR	14	LGR	19	NK	24	SN	29	-	34	G
5	SW	10	WS	15	G	20	-	25	GP	30	NR	35	W

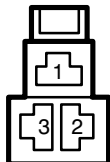
R030033

R030007

**C2085**



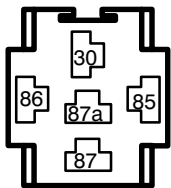
1	B
2	WG
3	NR



1	B
2	WG
3	NR

**C2090**

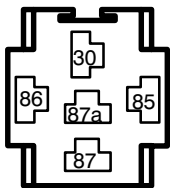
R050001



30	UP	86	B
85	UP	87	BN
87a	-		

**C2091**

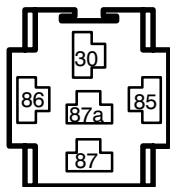
R050001



30	RY	86	UR
85	B	87	UR
87a	-		

**C2092**

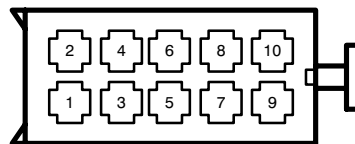
R050001



30	BS	87	-
86	NK	85	B
87a	B		

**C2095**

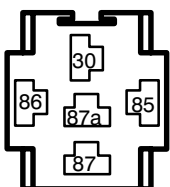
R100018



1	B	4	B	6	B	8	B
2	B/-	5	B	7	-	9	B
3	B/-					10	B

**C2093**

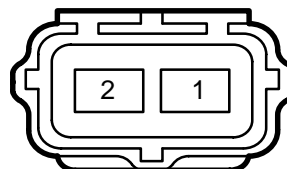
R050001



30	OK	86	BG
85	B	87	NK
87a	-		

**C2096**

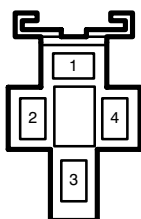
R020037



1	PK
2	SR

**C2094**

R040033

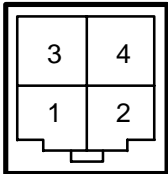
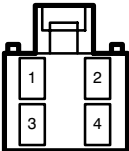


1	NR	3	NO
2	B	4	WO

R040036

**C2097**

R040021

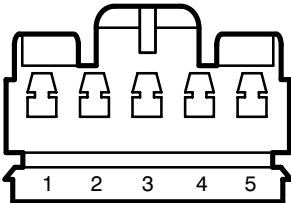


1	-	3	-
2	YK	4	-

1	-	3	-
2	YK	4	-

R050024

**C2098**

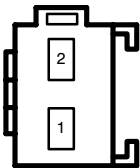


1	RO/UB	4	UP
2	RN	5	B
3	-		

R020067

**C2100**

R020021



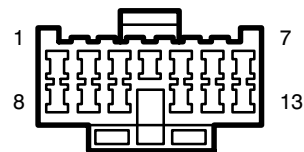
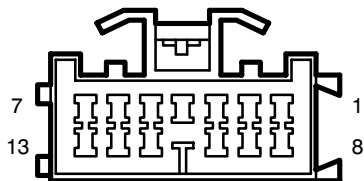
1	SR
2	SB

1	SU
2	SK

R130010

R130009

### C2101



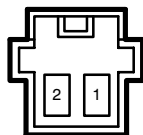
1	-	6	-	11	NP
2	B	7	-	12	K
3	-	8	-	13	O
4	-	9	BU		
5	SW	10	BK		

1	-	6	-	11	BG
2	B	7	-	12	K
3	-	8	-	13	O
4	-	9	BU		
5	SW	10	BK		

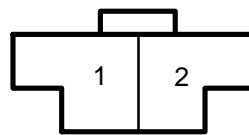
R020062

R020028.00

### C2102



1	BN, BN
2	BW, BW

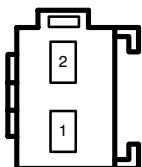


1	BW
2	B

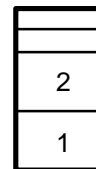
R020067

R020021

### C2103



1	SK
2	SU

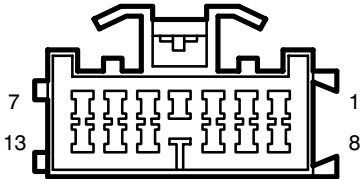


1	SK
2	SU

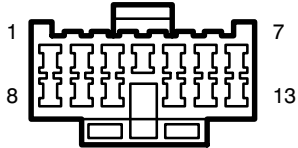
R130010

R130009

**C2104**



1	-	6	YK	11	NP
2	B	7	PN	12	K
3	UG	8	NK	13	O
4	-	9	BP		
5	SW	10	BN		

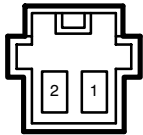


1	-	6	YK	11	BG
2	B	7	-	12	K
3	UG	8	NK	13	O
4	-	9	BU		
5	SW	10	BK		

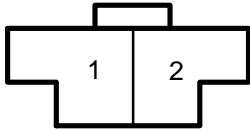
R020062

R020028.00

**C2105**



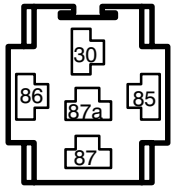
1	BR, BR
2	BK, BK



1	BW
2	B

**C2107**

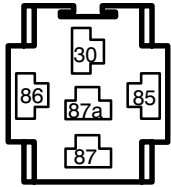
R050001



30	GLG	87	-
85	GLG	87a	GY
86	RS		

**C2109**

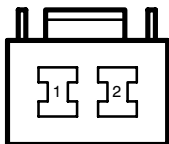
R050001



30	NP	86	B
85	UB	87	UR
87a	-		

### C2110

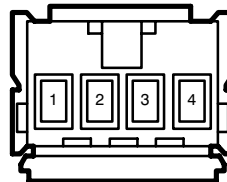
R020066



1	BW
2	BN

### C300

R040039

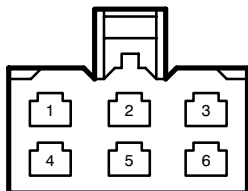


1	PN	3	B
2	PU	4	-

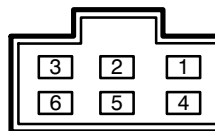
R060028

### C301

R060006



1	SG	4	SW
2	SG	5	SN
3	SO	6	S

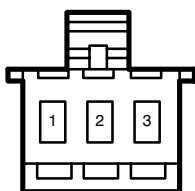


1	SG	4	SW
2	SG	5	SN
3	SO	6	S

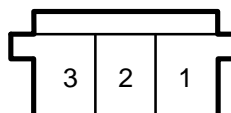
R030044

### C306

R030009



1	PW
2	O
3	K

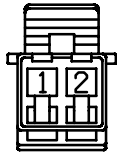


1	PW
2	O
3	K

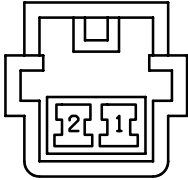
afu3573

ypc10019

**C307**



1	GR
2	B

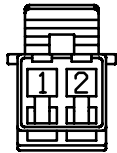


1	B
2	R

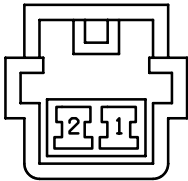
afu3573

ypc10019

**C309**



1	GR
2	B



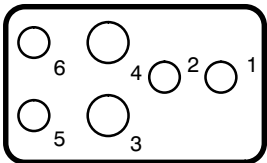
1	B
2	R

**C316**

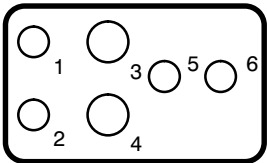
R060014

**C317**

R060015



1	SU	4	-
2	SN	5	SR
3	WR	6	SP

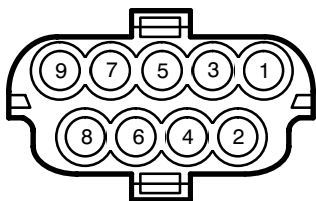


1	SG	4	WY
2	SB	5	SW
3	B	6	SY

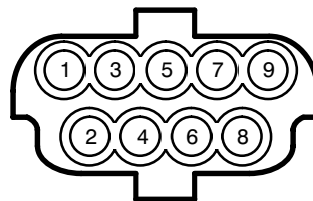
R090001

**C318**

R090004



1	SB	4	SR	7	SY
2	SG	5	SN	8	SW
3	SP	6	SU	9	-



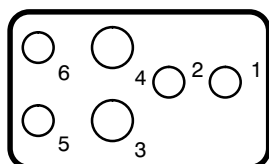
1	Y	4	G	7	Y
2	G	5	Y	8	G
3	Y	6	G	9	-

**C319**

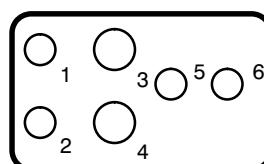
R060014

**C320**

R060015



1	WU	4	WO
2	WN	5	WG
3	-	6	WP

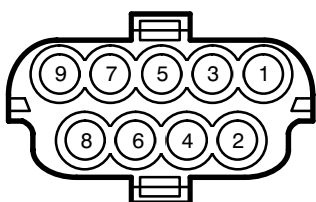


1	WS	4	BP
2	WLG	5	WB
3	WU	6	WK

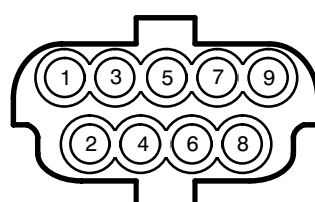
R090001

**C321**

R090004



1	WS	4	WP	7	WK
2	WLG	5	WN	8	WB
3	WG	6	WU	9	-



1	G	4	Y	7	Y
2	Y	5	Y	8	G
3	G	6	G	9	-

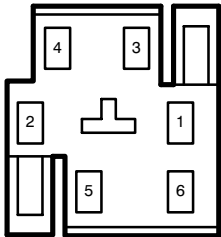
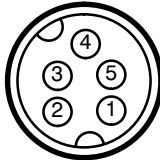


R050009

R060026

**C323**

**C337**



1	-	4	BO
2	GY	5	BY
3	GN		

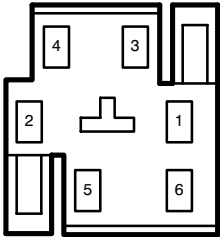
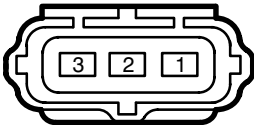
1	BU	4	B
2	BK	5	-
3	-	6	RN

R030003

R060026

**C334**

**C338**



1	LGO
2	B
3	GN

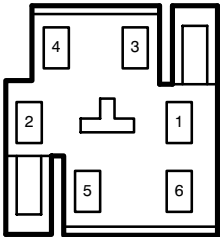
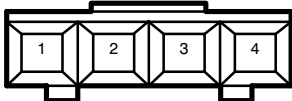
1	BS	4	B
2	BR	5	-
3	-	6	RN

R040034

R060026

**C335**

**C339**

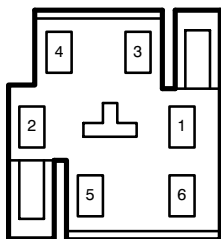


1	BN	3	WB
2	B	4	-

1	SW	4	B
2	SO	5	WK
3	WK	6	RN

R060026

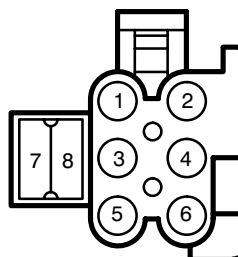
**C340**



1	S	4	B
2	SN	5	WK
3	WK	6	RN

R080029

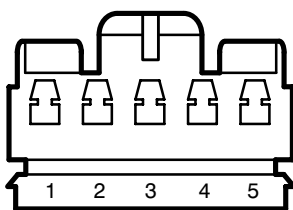
**C343**



1	B	5	-
2	SG	6	-
3	-	7	-
4	-	8	-

R050024

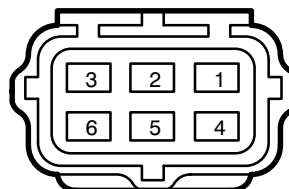
**C341**



1	LGP	4	UK
2	RN	5	B
3	-		

R060016

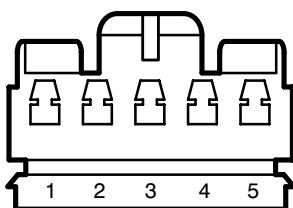
**C344**



1	P	4	BR
2	GP	5	KS
3	B	6	KS

R050024

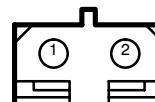
**C342**



1	LGP	4	US
2	RN	5	B
3	-		

R020069

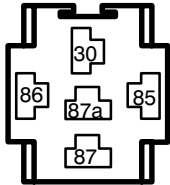
**C346**



1	B
2	GLG

**C348**

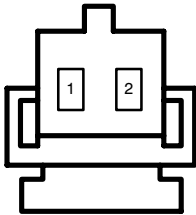
R050001



30	B	86	LGW
87	BP	85	B
87a	-		

**C351**

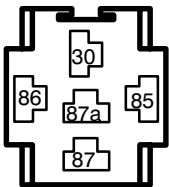
R020057



1	LGW
2	B

**C349**

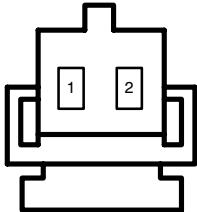
R050001



30	LGW	86	UK
85	B	87	GR
87a	-		

**C352**

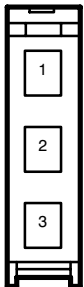
R020057



1	LGW
2	B

**C350**

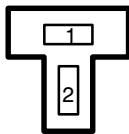
R030040



1	PU
2	-
3	PN

**C353**

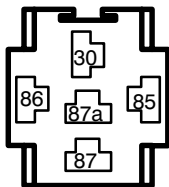
R020015



1	B
2	LGW

### C357

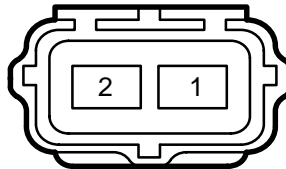
R050001



30	LGW	86	US
85	B	87	GR
87a	-		

### C369

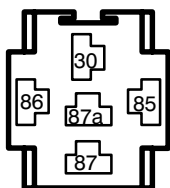
R020037



1	SB
2	B

### C358

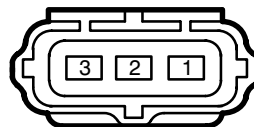
R050001



85	PU,PU	86	NP
87	WN	30	NP
87a	-		

### C370

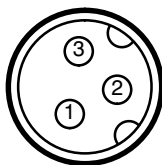
R030003



1	GY
2	-
3	BR

### C368

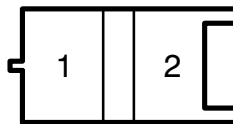
R030021



1	-
2	B
3	BK

### C371

R020003



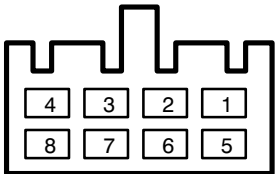
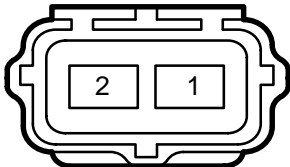
1	BG
2	B

R020037

R080008

**C372**

**C382**



1	GN
2	GY

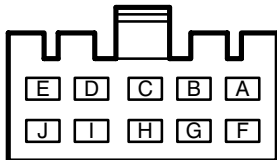
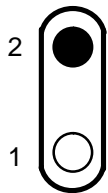
1	-	5	-
2	-	6	GW
3	GO	7	GU
4	OG	8	OU

R020005

R100006

**C378**

**C383**



1	RW
2	B

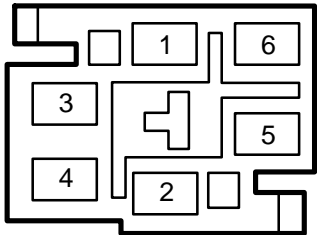
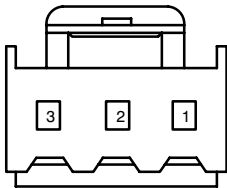
A	P	D	B	F	WG	H	GK
B	U	E	W	G	GB	I	GR
C	NR					J	O

R030048

R070008

**C381**

**C384**



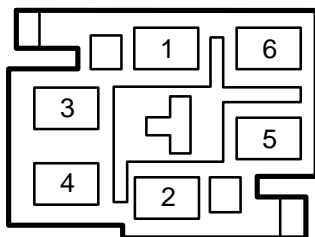
1	B
2	-
3	P

1	GO	5	-
2	GR	6	-
3		7	-
4	B		

**C385**

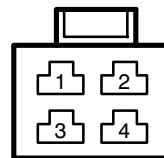
R070008

R040018



1	GU	5	-
2	GK	6	-
3	-	7	-
4	B		

**C388**

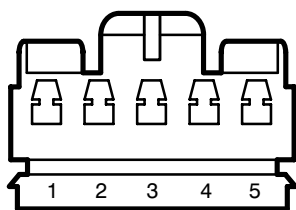


1	O	3	B
2	OG	4	U

**C386**

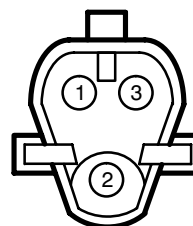
R050024

R030027



1	B	4	BS
2	-	5	-
3	-		

**C389**

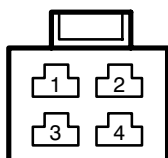


1	GW
2	GB
3	BS

**C387**

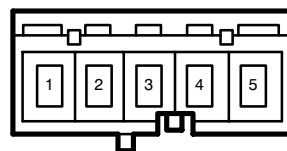
R040018

R050026



1	W	3	B
2	OU	4	P

**C391**



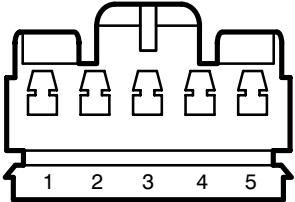
1	BR	4	GR
2	N	5	B
3	Y		

R050024

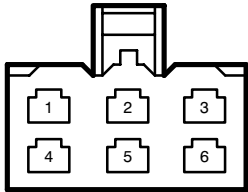
R060028

**C392**

**C3003**



1	LGW	4	B
2	RB	5	UW
3	-		

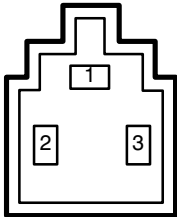


1	B	4	B
2	B	5	B
3	B	6	B,B

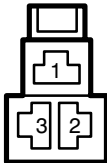
R030006

R030007

**C3004**



1	SG
2	SW
3	SO

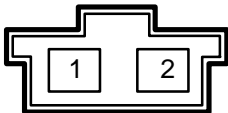


1	SG
2	SW
3	SO

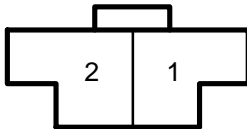
R020012

R020028.01

**C3005**



1	O
2	K

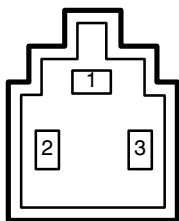


1	O
2	K

R030006

R030007

**C3006**



1	SG
2	SN
3	S

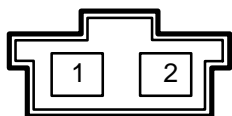


1	SG
2	SN
3	S

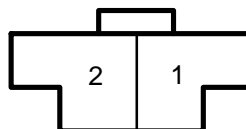
R020012

R020028.01

**C3007**



1	O
2	K



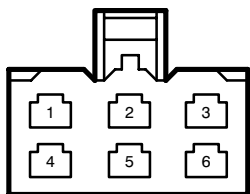
1	O
2	K

R060028

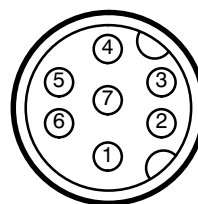
R070003

**C3011**

**C400**



1	B	4	B
2	B	5	B
3	B	6	B

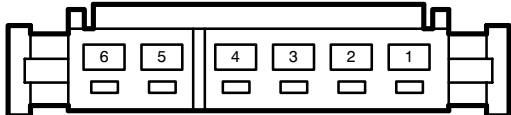


1	RO	5	B
2	GP	6	RY
3	GW	7	RB
4	GR		



R060024

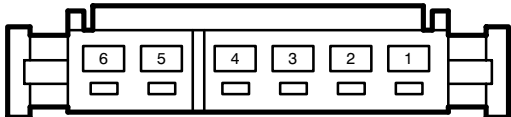
**C403**



1	GR	4	B
2	GP	5	RY
3	RB	6	GN

R060024

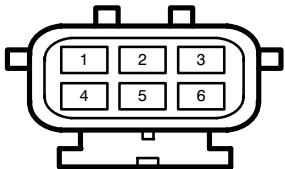
**C406**



1	GW	4	B
2	GP	5	RY
3	RO	6	GN

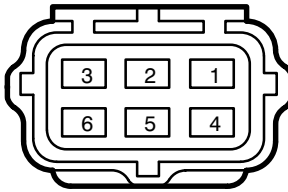
R060017

**C407**



1	WP	4	-
2	GB	5	-
3	B	6	-

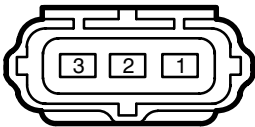
R060016



1	WP	4	R
2	GB	5	GK
3	B	6	B

R030003

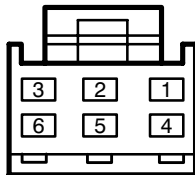
**C408**



1	NY
2	GO
3	NG

R060012

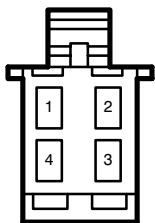
**C412**



1	SCR	4	LGO
2	R	5	PY
3	B	6	B

R040037

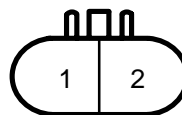
**C413**



1	BW	3	BW
2	B	4	B

R020031

**C414**

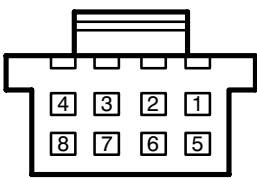


1	K
2	O

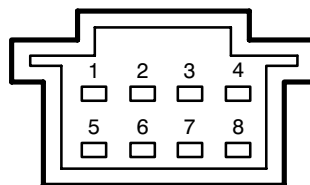
R080014

**C415**

R080013



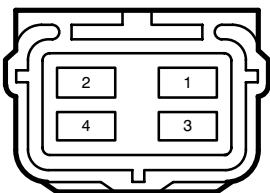
1	K	5	GP
2	RB	6	B
3	NG	7	O
4	GLG	8	B



1	K	5	GP
2	RB	6	B
3	NG	7	O
4	GO	8	B

R040001

**C434**

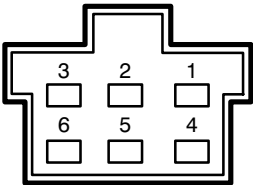


1	GB	3	B
2	B	4	WP

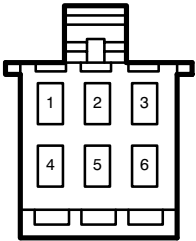
R060031

**C437**

R060029



1	SCR	4	-
2	B	5	PY
3	R	6	LGO

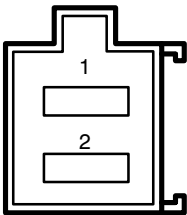


1	SCR	4	-
2	B	5	PY
3	R	6	LGO

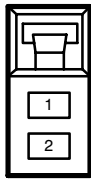
R020041

**C438**

R020056



1	NP
2	B



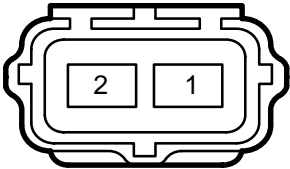
1	NP
2	B

R020037

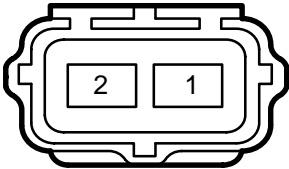
**C441**

R020037

**C442**



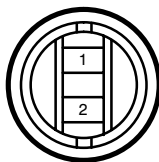
1	RB
2	B



1	GR
2	B

**C443**

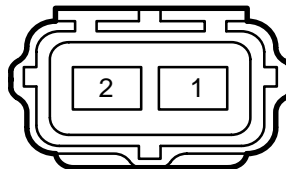
R020061



1	RB
2	B

**C445**

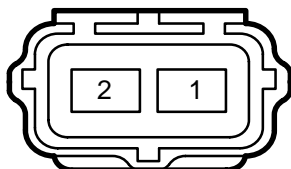
R020037



1	GW
2	B

**C444**

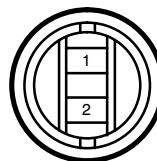
R020037



1	RO
2	B

**C446**

R020061

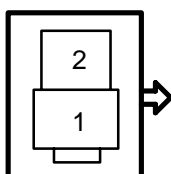


1	RO
2	B

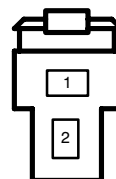
**C447**

R020050

R020059



1	B
2	YG

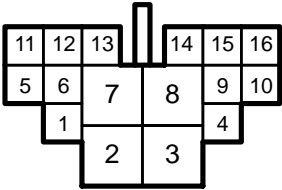


1	B
2	NG

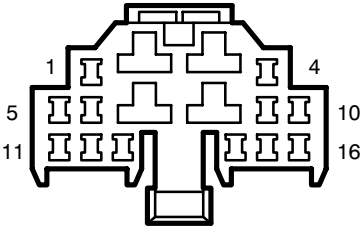
R160001

**C448**

R160007



1	-	5	-	9	P	13	BG
2	Y	6	YL	10	-	14	UW
3	G	7	N	11	-	15	LGW
4	UB	8	-	12	WLG	16	BR

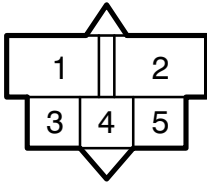


1	-	5	-	9	P	13	BG
2	Y	6	W	10	-	14	UW
3	GR	7	N	11	-	15	LGW
4	UB	8	-	12	WLG	16	BR

R050016

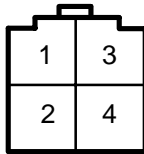
**C457**

R040022



1	YG	4	B
2	NR	5	WG
3	PG		

**C459**

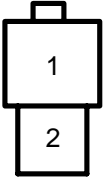


1	B	3	Y
2	N	4	G

R020047

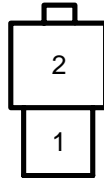
**C458**

R020046



1	NR
2	G

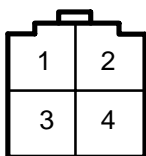
**C462**



1	R
2	YG

**C463**

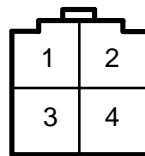
R040023



1	WG	3	G
2	S	4	B

**C466**

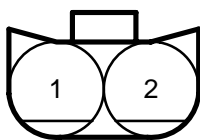
R040023



1	WG	3	S
2	PG	4	BR

**C464**

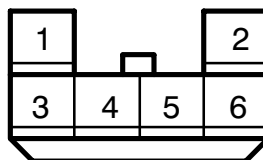
R020048



1	BG
2	RG

**C467**

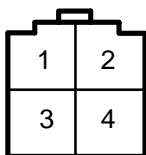
R060020



1	WG	4	LGW
2	R	5	B
3	YL	6	G

**C465**

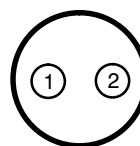
R040023



1	WG	3	S
2	WG	4	UW

**C485**

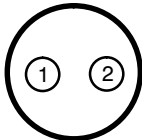
R020007



1	W
2	W

**C486**

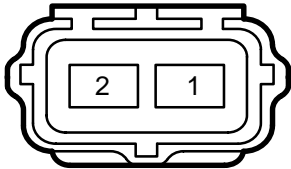
R020007



1	W
2	W

**C500**

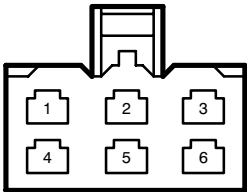
R020037



1	SU
2	SK

**C487**

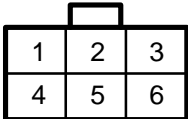
R060028



1	B	4	B
2	B	5	B
3	B	6	B

**C503**

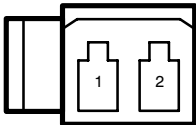
R060008



1	B	4	SW
2	BG	5	SW
3	BU	6	BK

**C489**

R020071

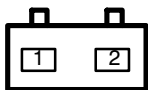


1	B
2	NY

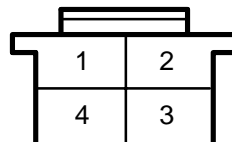
R020053

### C507

R040011



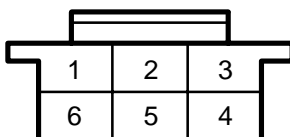
1	O
2	K



1	O	3	NK
2	K	4	B

### C507

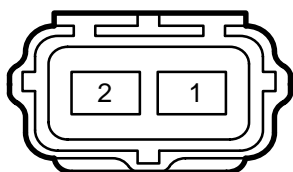
R060009



1	O	4	-
2	K	5	YK
3	B	6	-

### C600

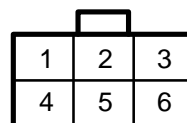
R020037



1	SU
2	SK

### C603

R060008

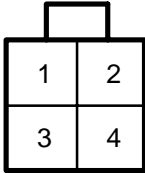


1	B	4	SW
2	BG	5	SW
3	BU	6	BK



R040016

**C604**

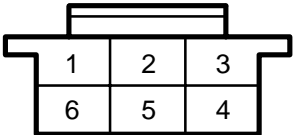


1	UG	3	-
2	-	4	B

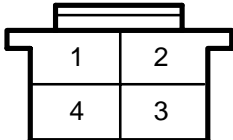
R060009

**C607**

R040011



1	O	4	-
2	K	5	YK
3	B	6	-

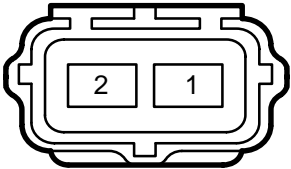


1	O	3	NK
2	K	4	B

R020037

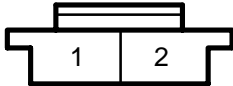
**C703**

R020029



1	SW
2	SO

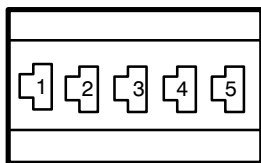
**C706**



1	O
2	K

### C709

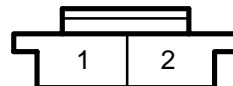
R050008



1	SO	4	SW
2	SO	5	SW
3	SG		

### C806

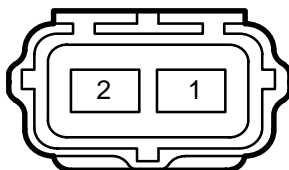
R020029



1	O
2	K

### C803

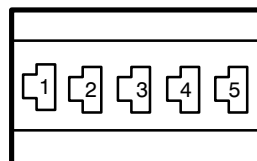
R020037



1	SW
2	SO

### C809

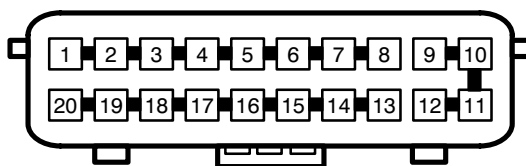
R050008



1	SW	4	SN
2	S	5	SO
3	SG		

### HJ1

R200001



### S2042

1	GO
2	GO
3	GO
4	GO
5	GO
6	-
7	-
8	-

### S2045

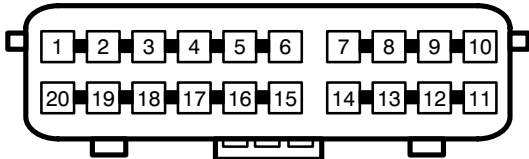
9	LGP
10	LGP
11	LGP
12	LGP

### S274

13	GLG
14	GLG
15	GLG
16	GLG
17	GLG
18	GLG
19	GLG
20	GLG

R200008

**HJ2**



**S2074**

1	RN
2	RN
3	RN
4	RN
5	RN
6	-

**S2005**

7	BY
8	BY
9	BY
10	BY

**S2030**

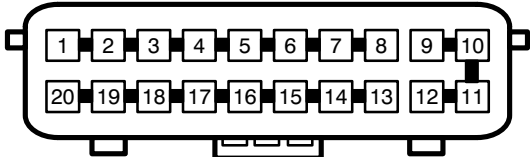
11	YK
12	Y
13	YK
14	YK

**S2095**

15	LGW
16	LGW
17	LGW
18	LGW
19	LGW
20	-

R200001

**HJ3**



**S238**

1	B
2	-
3	B
4	B
5	B
6	-
7	B
8	B

**S2032**

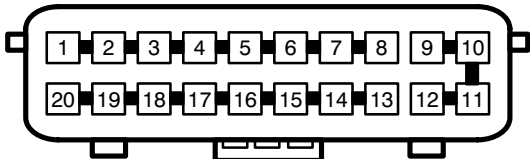
9	B
10	BO
11	B
12	B

**S2003**

13	B
14	-
15	B
16	B
17	B
18	B
19	B
20	B

R200001

**HJ4**



**S2055**

1	GP
2	-
3	GP
4	GP
5	GP
6	GP
7	GP
8	GP

**S2014**

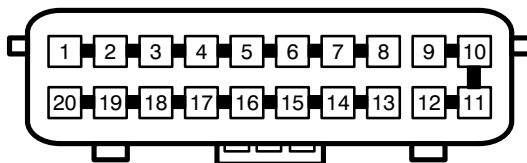
9	WP
10	WP
11	WP
12	WP

**S2011**

13	-
14	GP
15	GP
16	GP
17	GP
18	GP
19	GP
20	GP

### HJ5

R200001



#### S2031

1	B
2	B
3	B
4	B
5	B
6	B
7	B
8	-

#### S2017

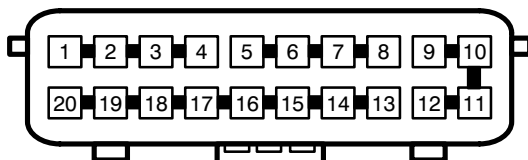
9	-
10	B
11	GK
12	GK

#### S288

13	B
14	B
15	B
16	B
17	-
18	B
19	-
20	B

### HJ6

R200009



#### S2019

1	GW
2	GW
3	GW
4	GW

#### S2020

5	GR
6	GR
7	GR
8	GR

#### S2018

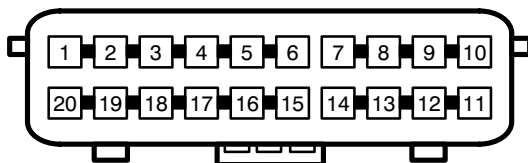
9	BR
10	BR
11	BR
12	BR

#### S2021

13	P
14	P
15	P
16	P
17	P
18	-
19	-
20	-

### HJ7

R200008



#### S290

1	BS
2	B
3	BS
4	-
5	-
6	BS

#### S291

7	NO
8	NO
9	NO
10	NO

#### S292

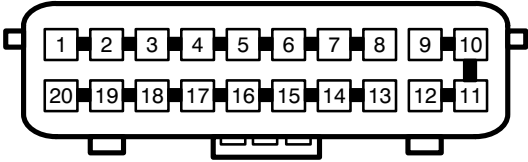
11	WG
12	B
13	WG
14	WG

#### S293

15	RB
16	RB
17	RB
18	RB
19	RB
20	-

R200001

HJ8



S253

1	B
2	B
3	B
4	B
5	B
6	B
7	B
8	B

S252

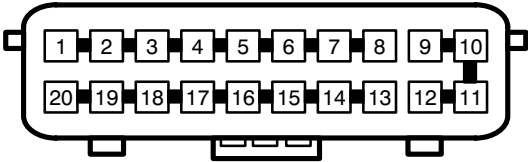
9	RO/RO
10	RO
11	RO
12	RO

S255

13	B
14	B
15	B
16	B
17	B
18	B
19	B
20	B

R200001

HJ9



S256

1	RO/RN
2	RN
3	RN
4	RN
5	RN
6	RN
7	RN
8	RN

S214

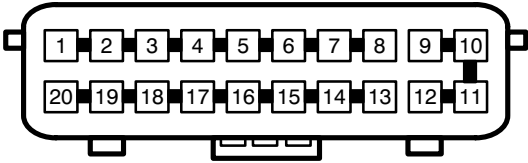
9	LG
10	LG
11	LG
12	LG

S251

13	RN
14	RN
15	RN
16	RN
17	RN
18	RN
19	RN
20	RN

R200001

HJ10



S204

1	B
2	-
3	-
4	B
5	B
6	B
7	B
8	B

S203

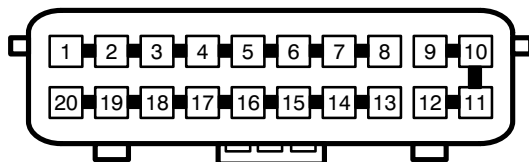
9	B
10	B
11	-
12	-

S2016

13	B
14	B
15	B
16	B
17	B
18	B
19	B
20	B

R200001

**HJ11**



**S2023**

1	B
2	B
3	B
4	B
5	B
6	B
7	B
8	B

**S2013**

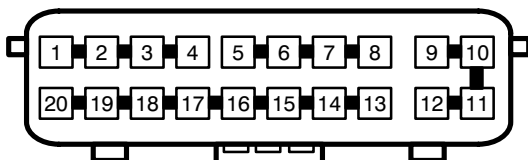
9	PG
10	PG
11	PG
12	PG

**S2015**

13	B
14	B
15	B
16	B
17	-
18	B
19	B
20	B

R200009

**HJ12**



**S434**

1	RY
2	RY
3	RY
4	RY

**S440**

5	RO
6	RO
7	-
8	RO

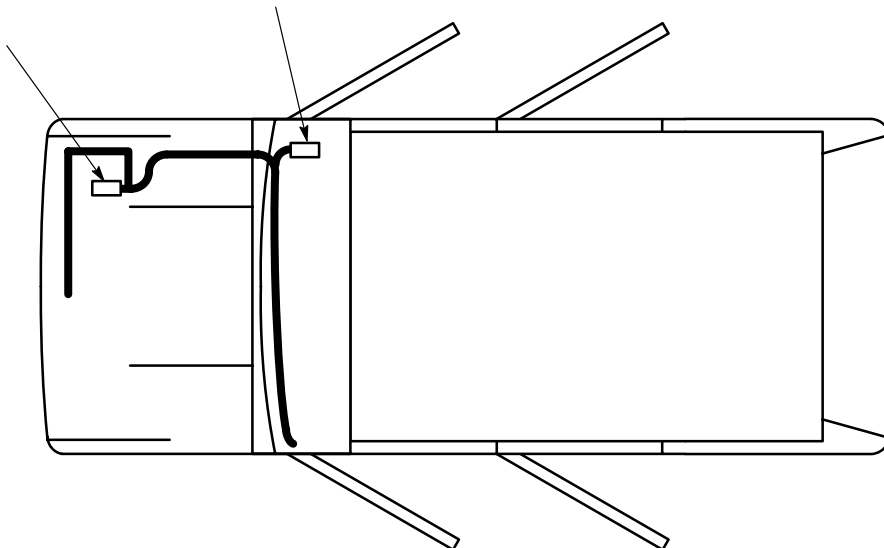
**S409**

9	GP
10	GP
11	GP
12	-

**S420**

13	RB
14	RB
15	RB
16	RB
17	RB
18	RB
19	RB
20	RB

- P126  
Fascia Fuse Box
- P127  
Satellite Fuse  
Box 1
- P125  
Engine Compart-  
ment Fuse Box
- P128  
Satellite Fuse  
Box 2



**MAIN HARNESS (PARTIAL)**

