



Electrical Troubleshooting manual

Elektrische diagnoseprocedure-handboek

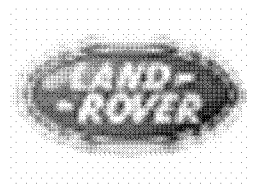
Manuel de dépannage électrique

**Handbuch zur fehlersuche bei
elektrischen Bauteilen**

**Manuale per l'individuazione
dei guasti elettrici**

Manual de localizacion de averías eléctricas

Manual de diagnóstico de averias eléctricas



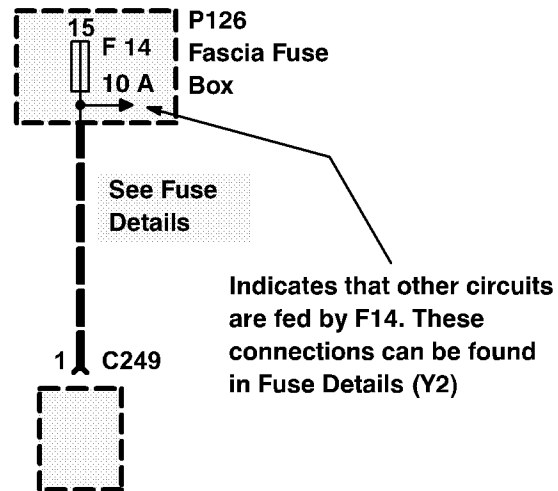
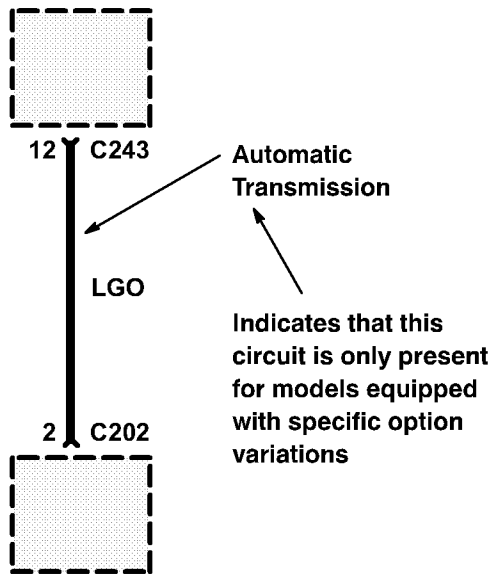
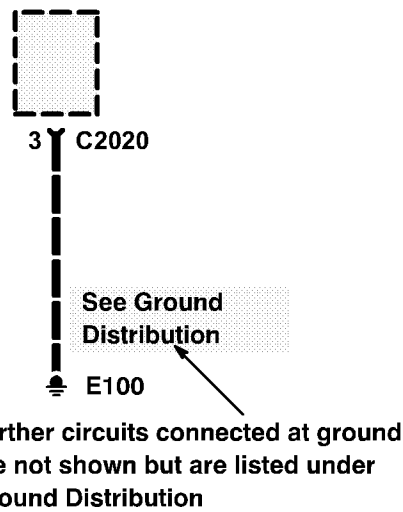
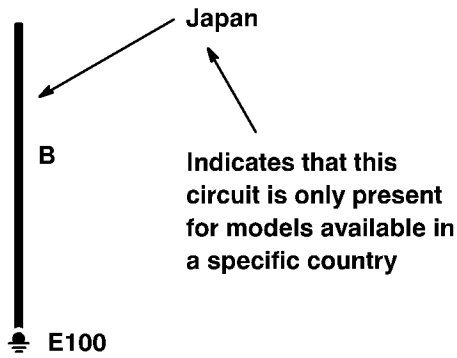
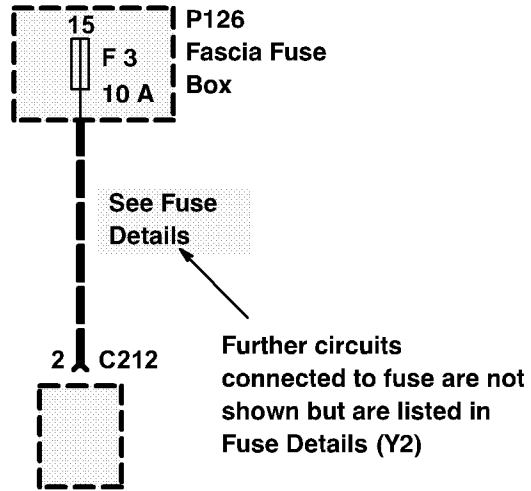
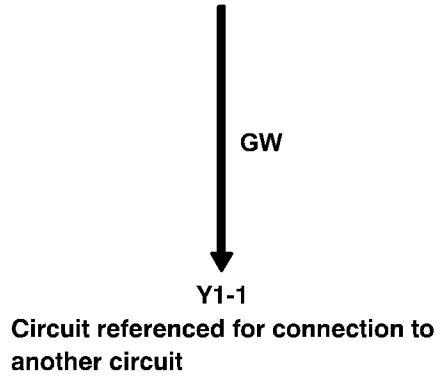
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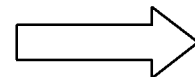
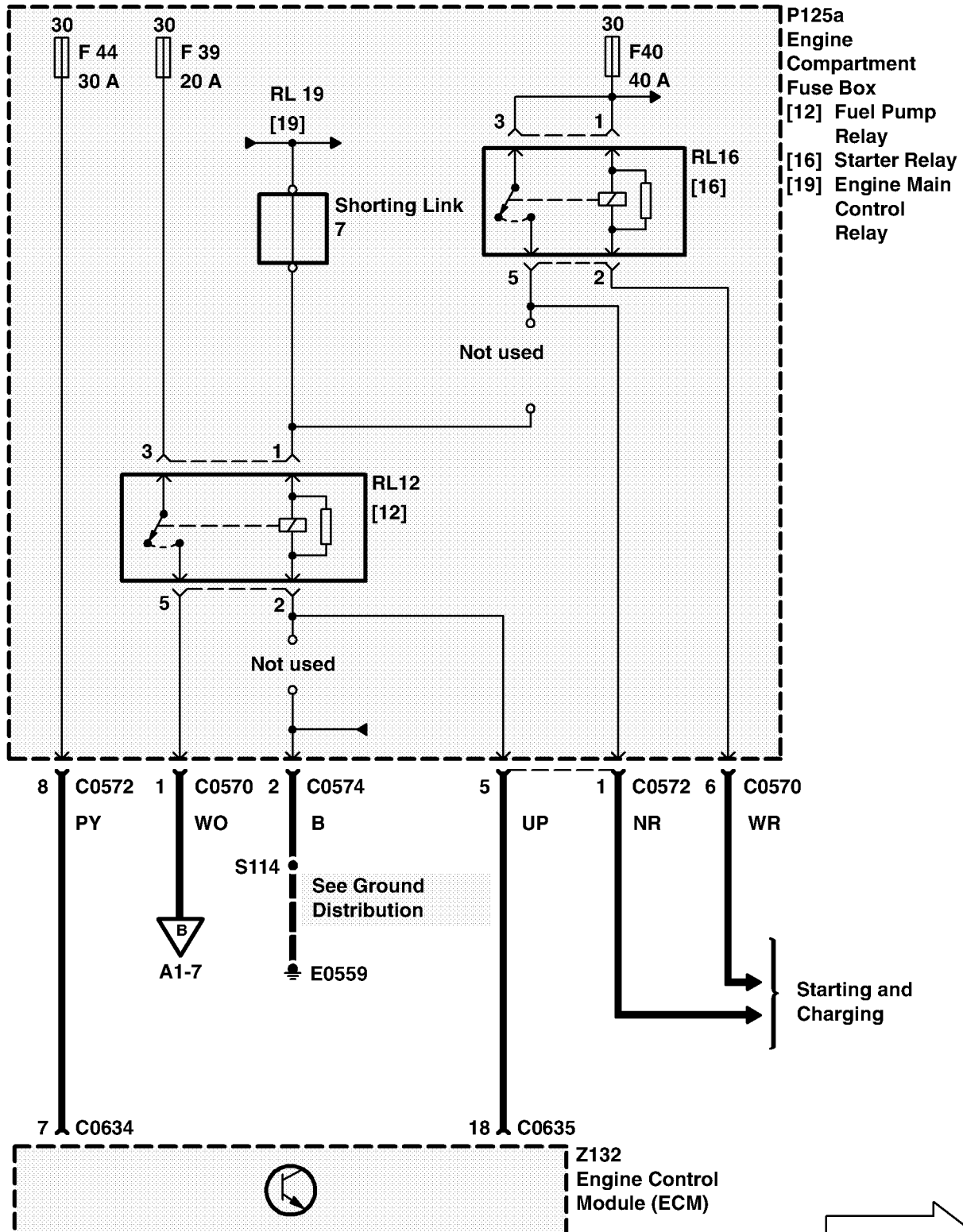
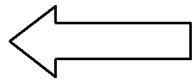
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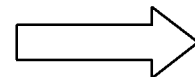
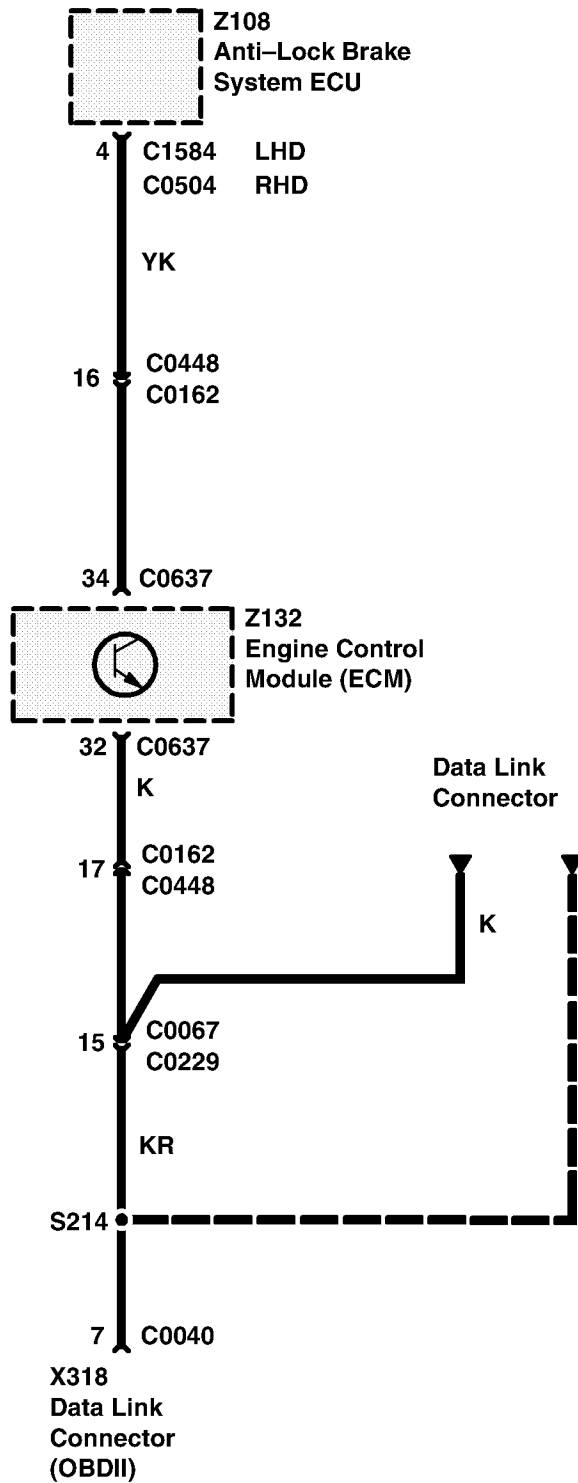


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Main Relay

Located in the ECM (Z132) box, this relay supplies the power feed to the ECM (Z132). It is controlled via the Ignition Switch (X274) in position II.

Glow Plug Relay (Z135)

The Glow Plug Relay (Z135) takes a feed directly from the battery and, on initialisation via the ECM (Z132), supplies current to each of the six glow plugs (one per cylinder) to aid cold starting. The glow time is controlled via the ECM (Z132) which also monitors the relay and illuminates the glow plug indicator lamp for the duration of the glow time. This relay is relatively large and is located with the main relay next to the ECM (Z132).

Starter Motor Relay

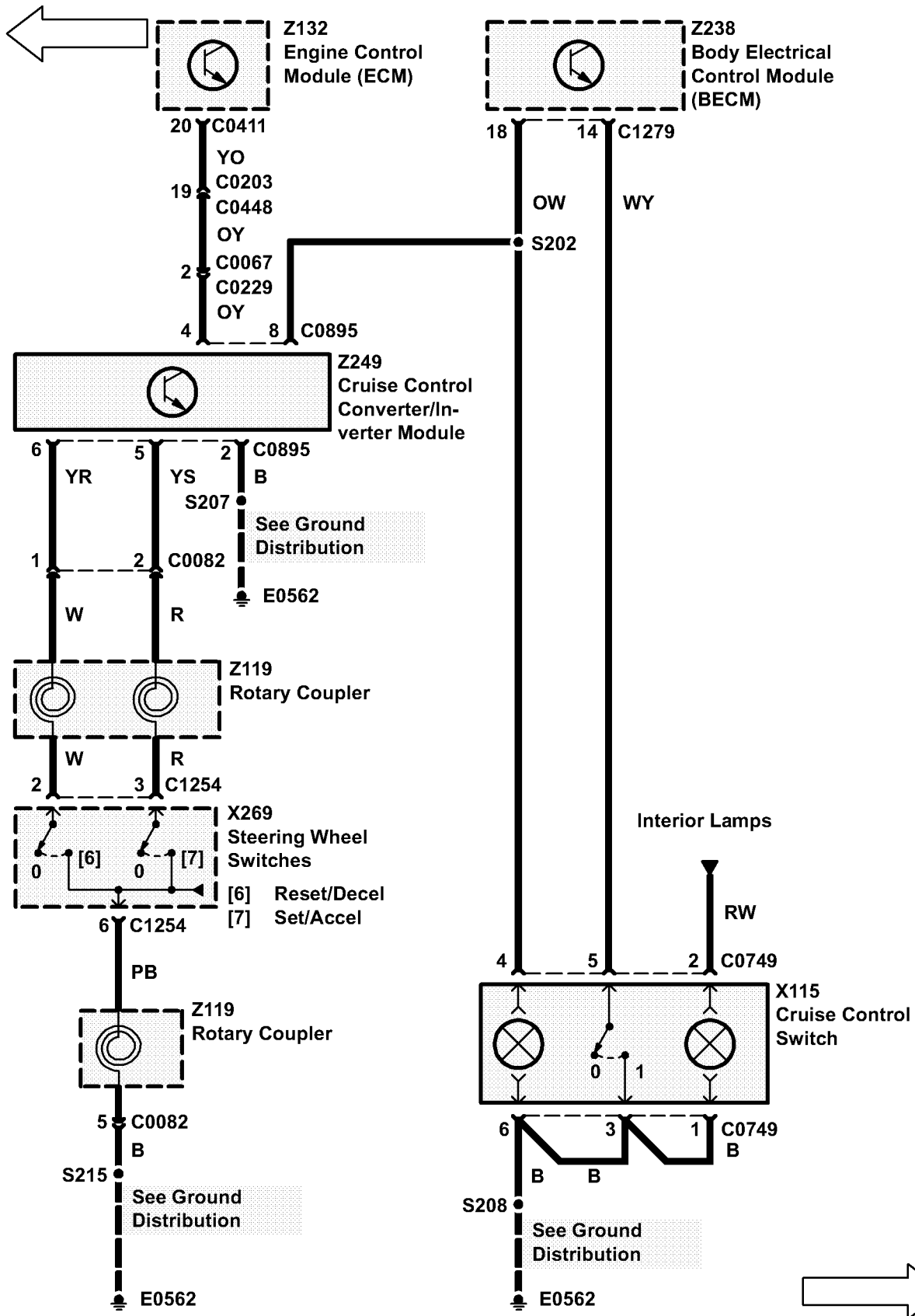
This relay is also ignition key controlled, activated with the key in the ignition III position only. Releasing the key after cranking cuts supply to the relay and switches off the starter motor.

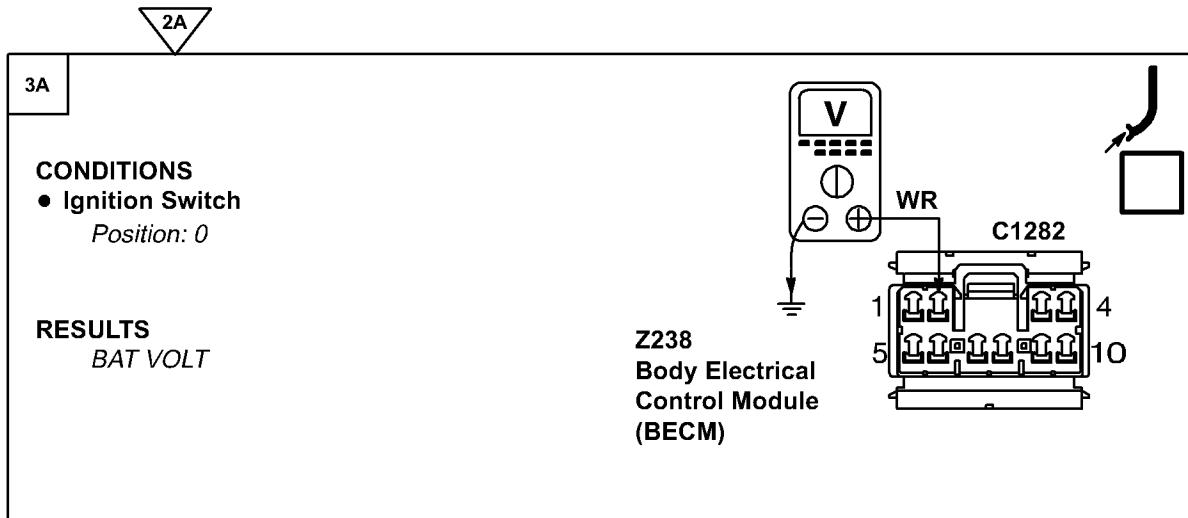
Fuel Pump Relay

The fuel pump relay is pulled in when the starter motor is activated, the earth path provided by the alternator output. When the engine is running, the starter motor is deactivated, supplying an earth path while the generator supplies a feed i.e. a polarity reversal.

ECM (Z132)

If the ECM (Z132) itself is not working, the entire engine management system will cease to operate, i.e. no fuel, tacho reading, etc.





PROBLEM CAUSE
- WR Wire

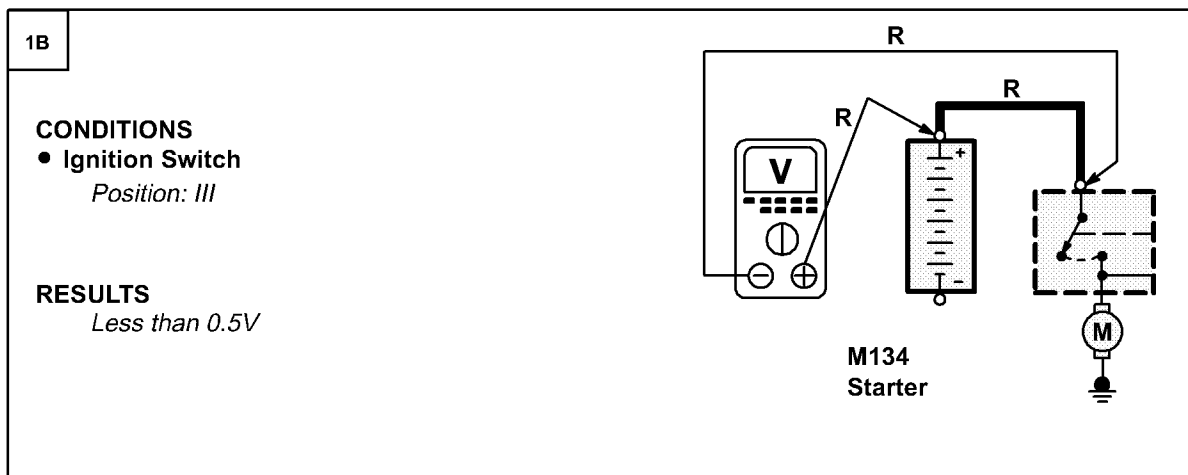


PROBLEM CAUSE
- Body Electrical Control
Module (BECM)

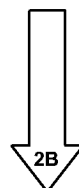
- Ignition Switch

- WR Wire
- B Wire

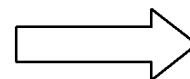
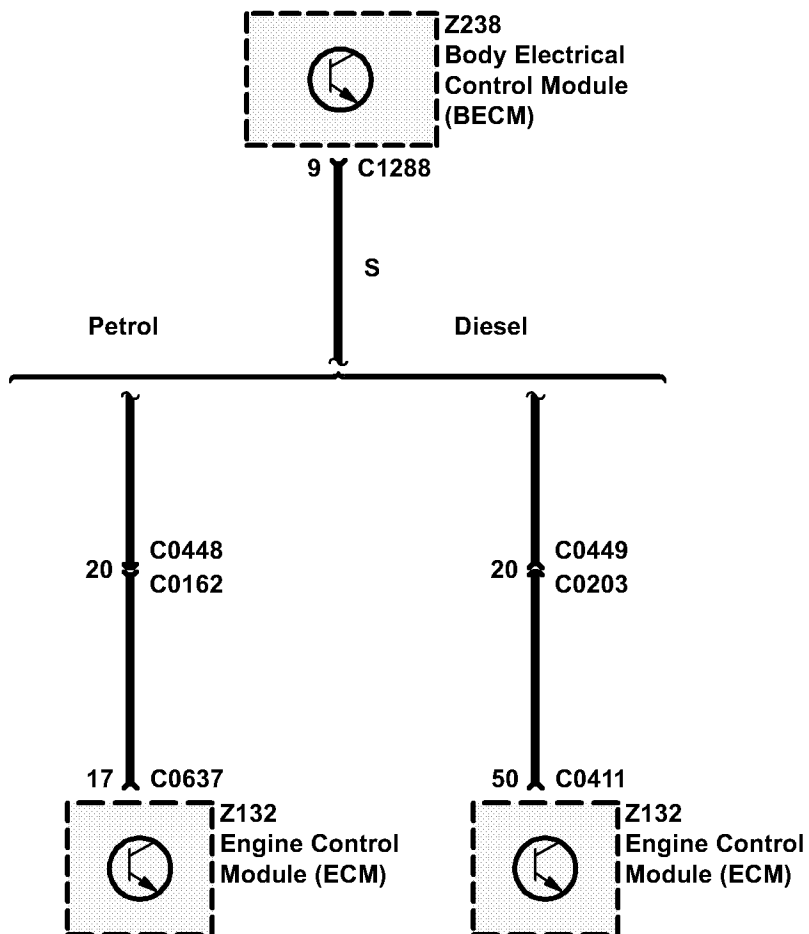
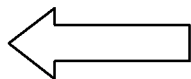
Test B



PROBLEM CAUSE
- R Wire
- Battery Terminal
Connection
- Starter Solenoid
(K136) terminal
connection




B5 CRUISE CONTROL (PETROL)



2D

3D

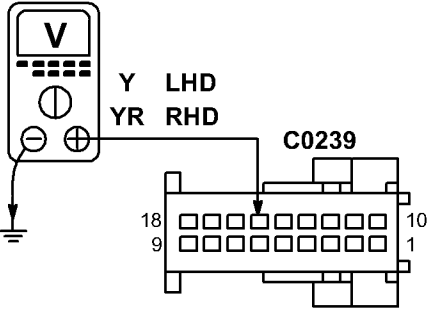


CONDITIONS

- Ignition Switch
Position: II
- Turn a drive wheel by hand

RESULTS

- = 5V with ignition position II
- = 2.5V approx. with wheels turning



**Z121
Cruise Control ECU**




PROBLEM CAUSE

- Y, YR Wire
- Body Electrical Control Module (BECM)



4D



CONDITIONS

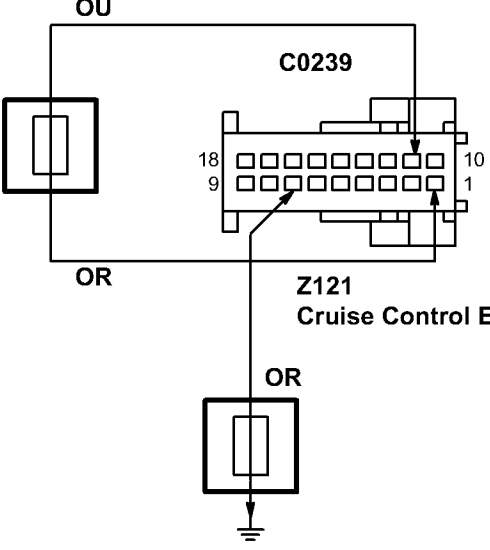
- Ignition Switch
Position: II
- Cruise Control Switch

On
- Transfer Gearbox
Hi Range
- Gear Selector
Forward Gear
- Brake Pedal
Released

RESULTS

- Cruise Control Vacuum Pump

Operates



**Z121
Cruise Control ECU**

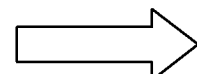
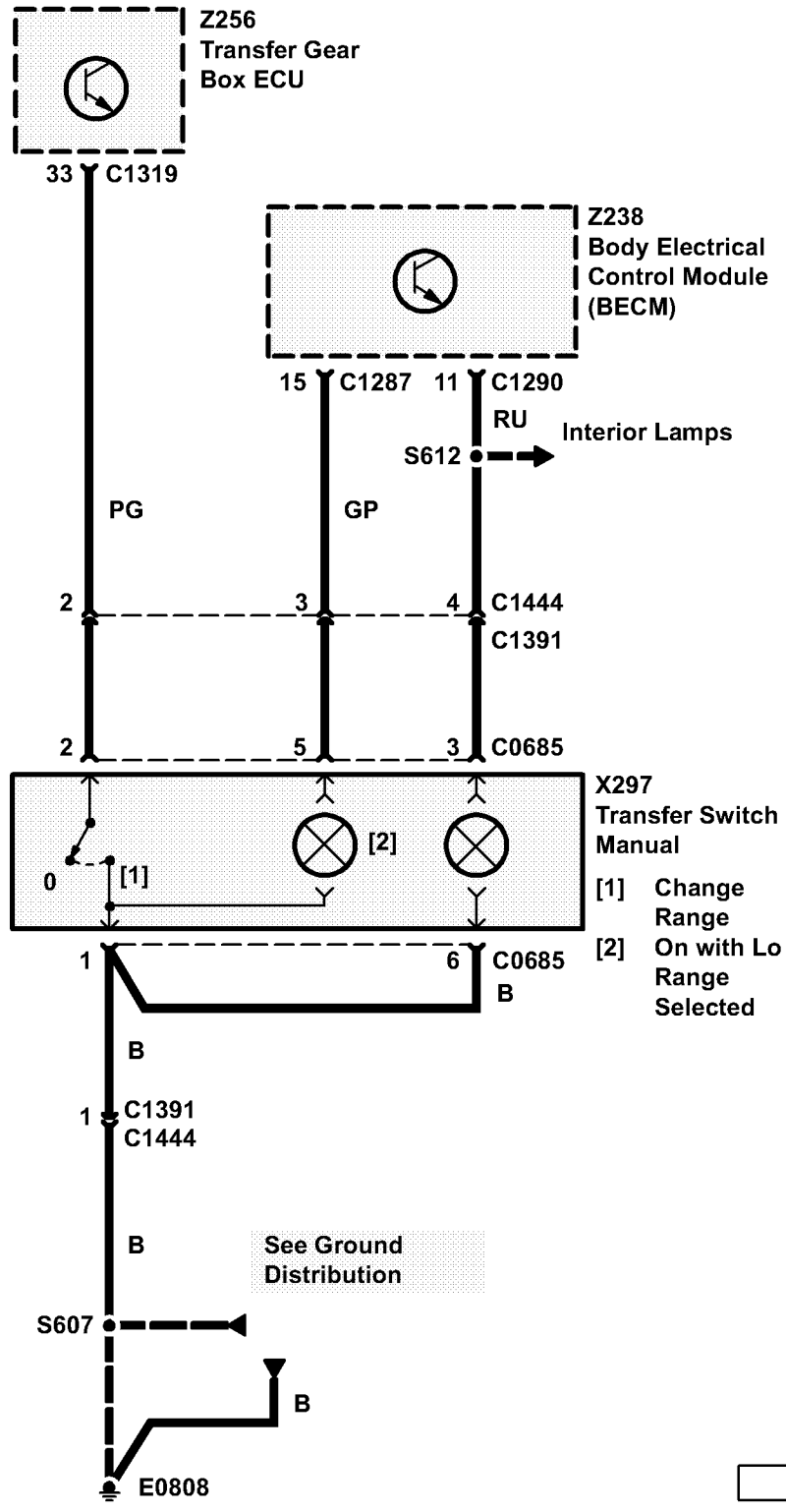


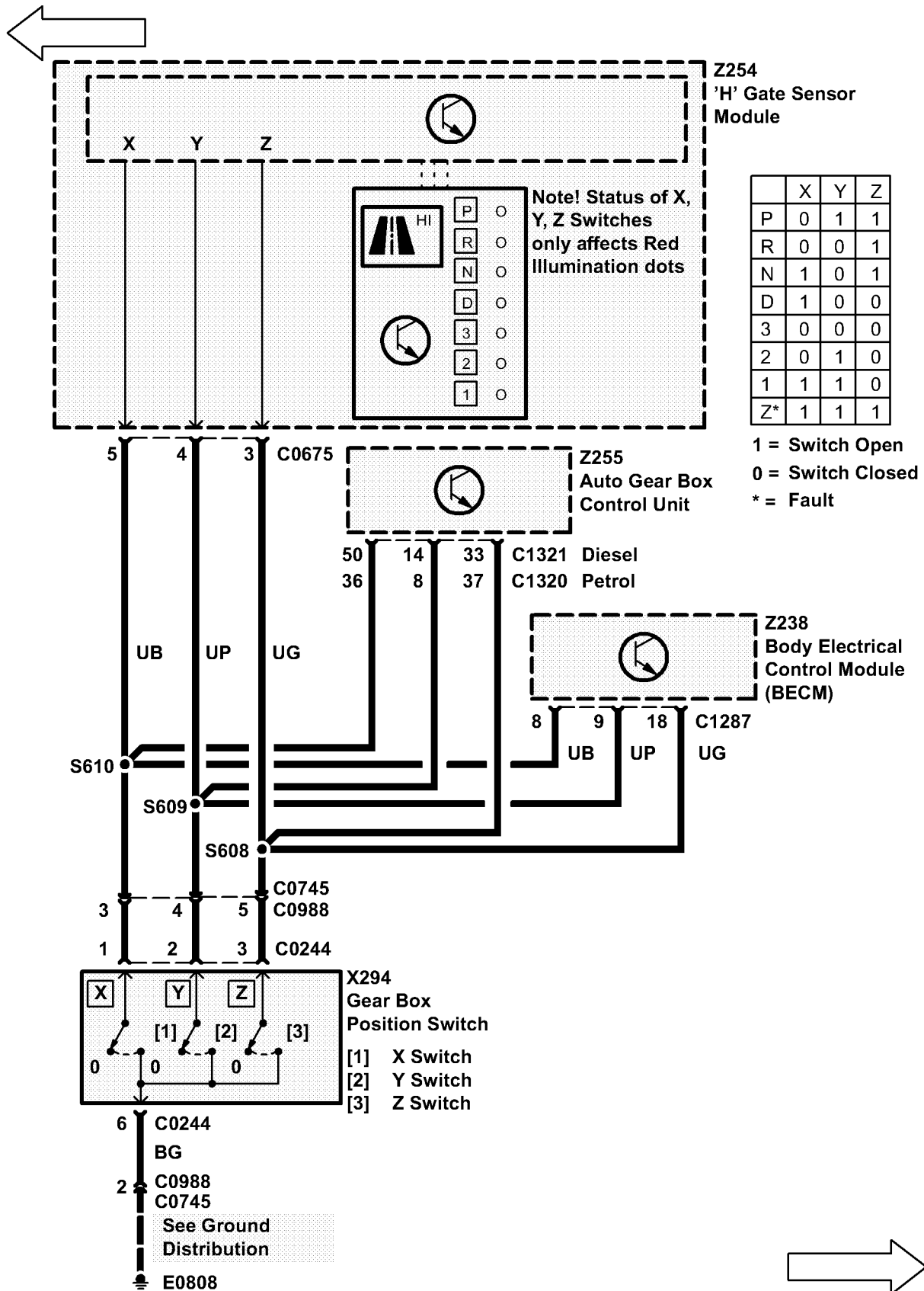
PROBLEM CAUSE

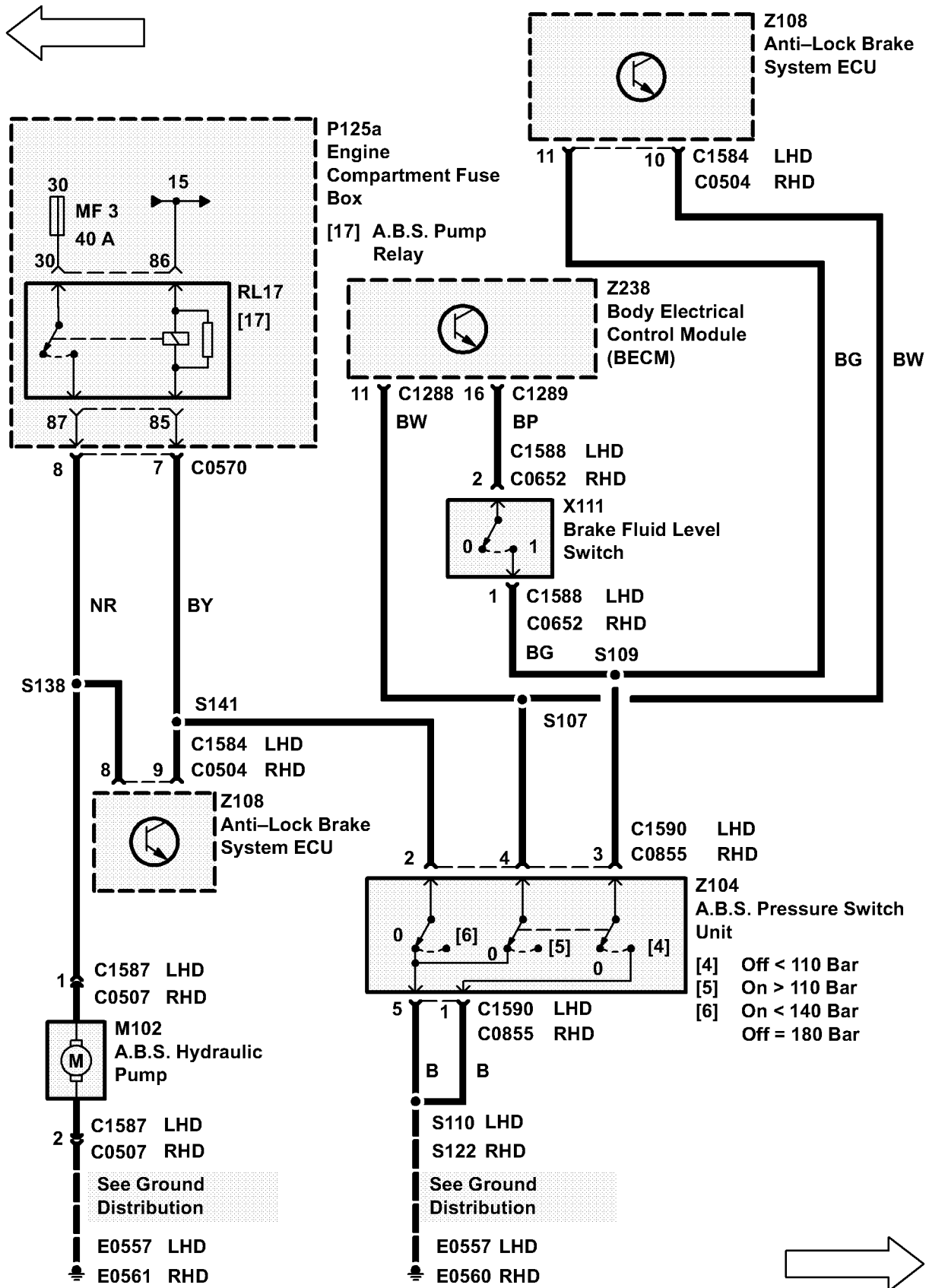
- OU, OR Wire
- Cruise Control Vacuum Pump

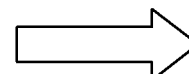
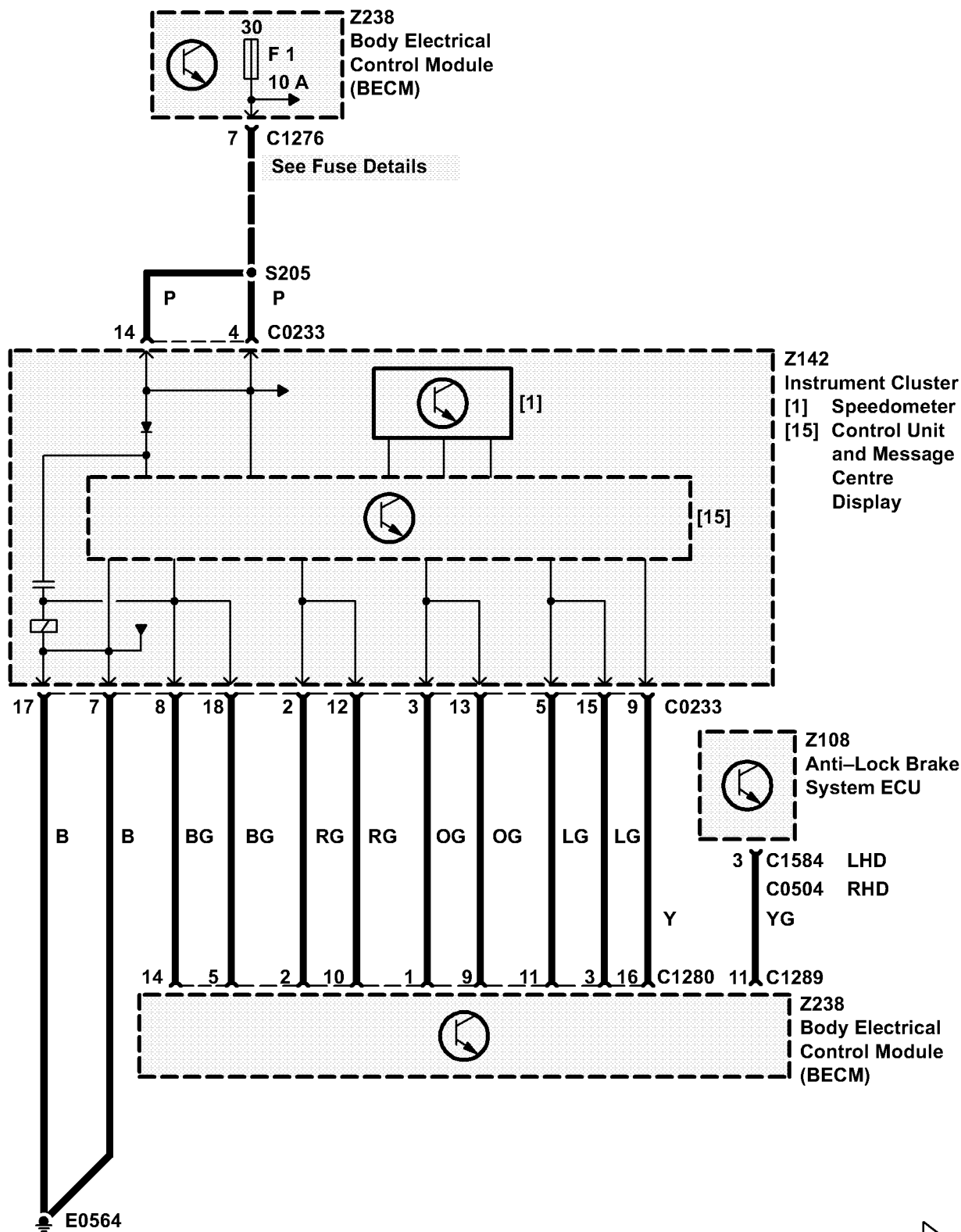


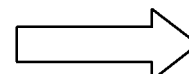
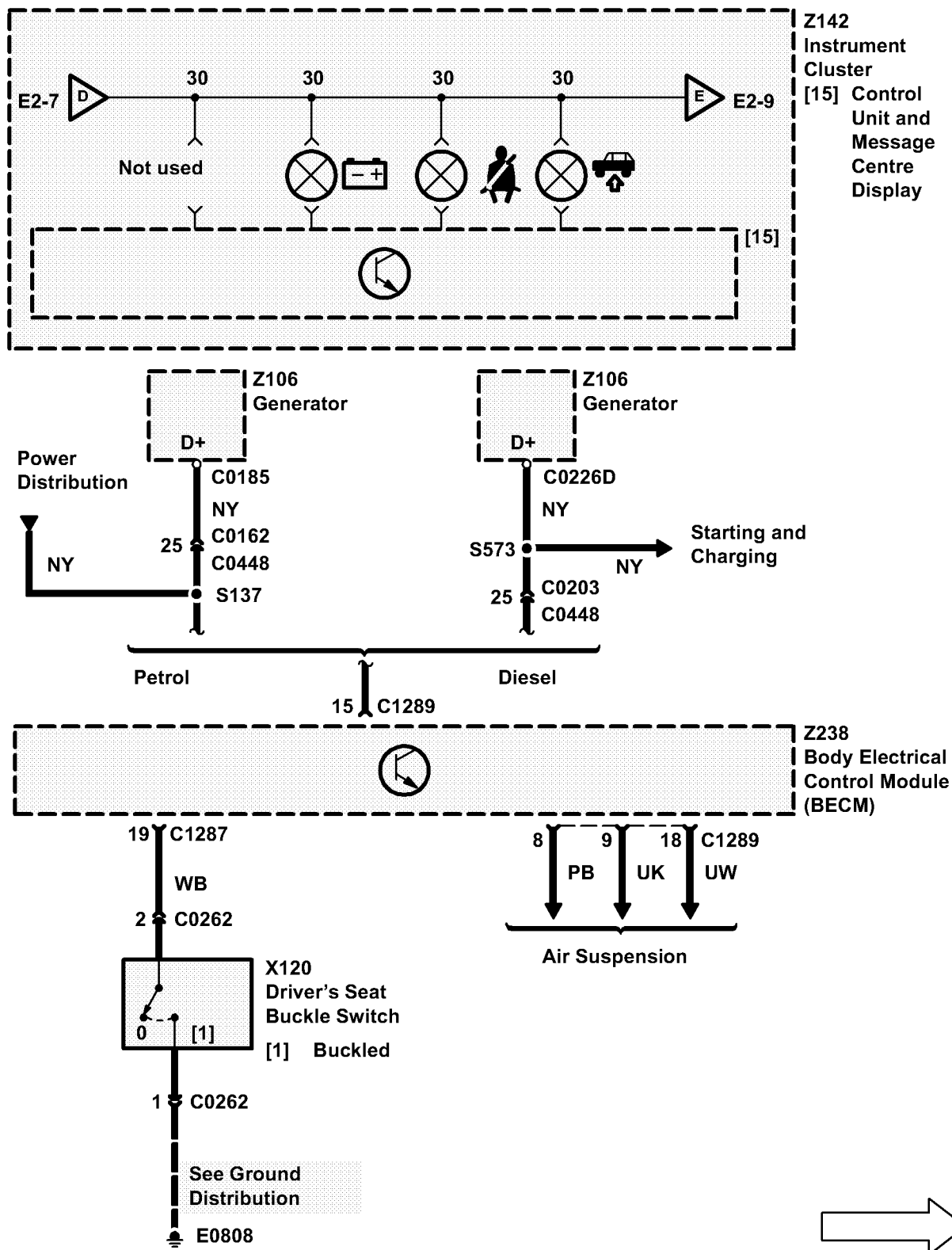
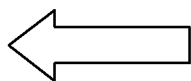
← Manual Transmission

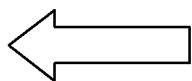








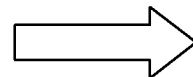
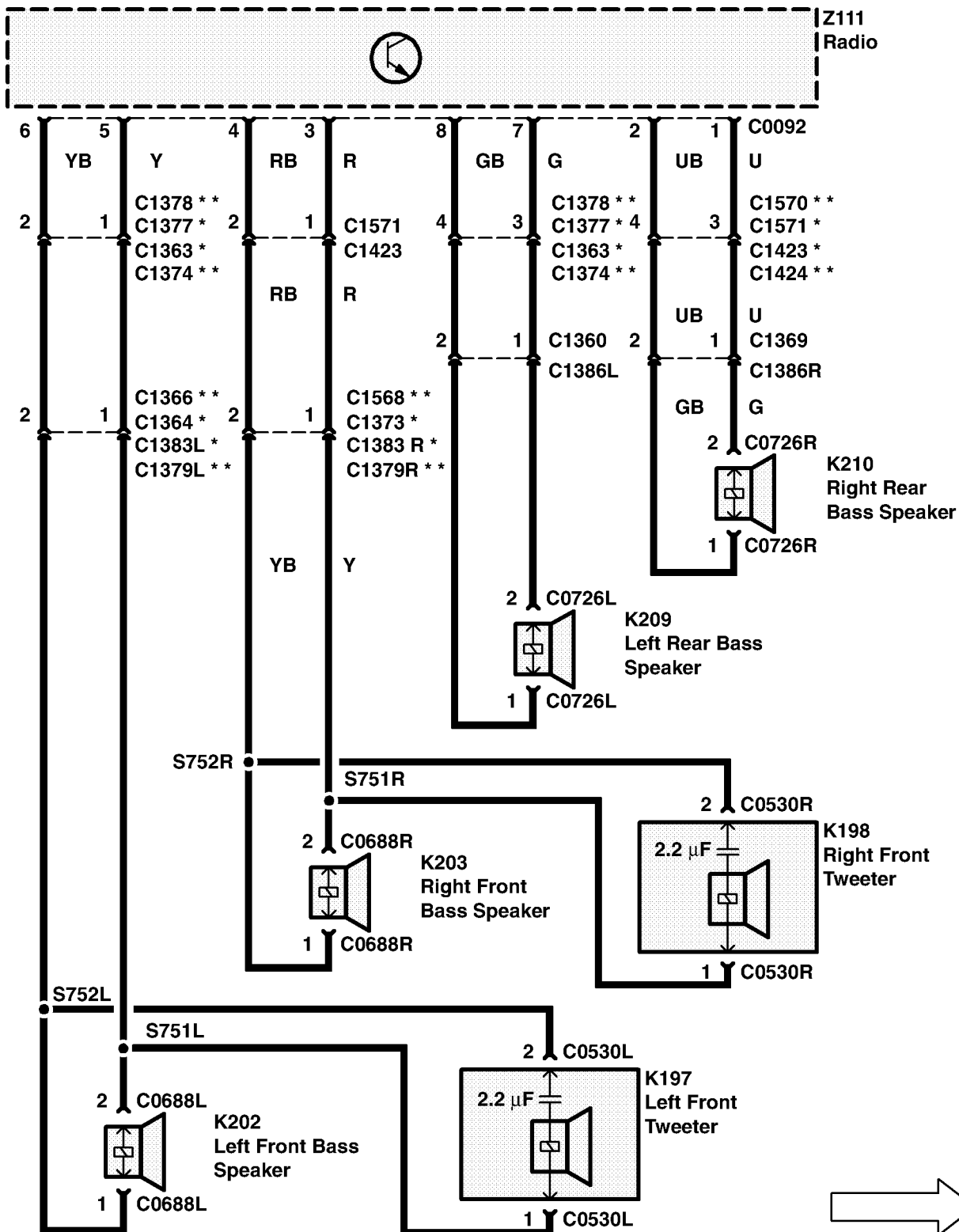




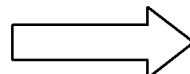
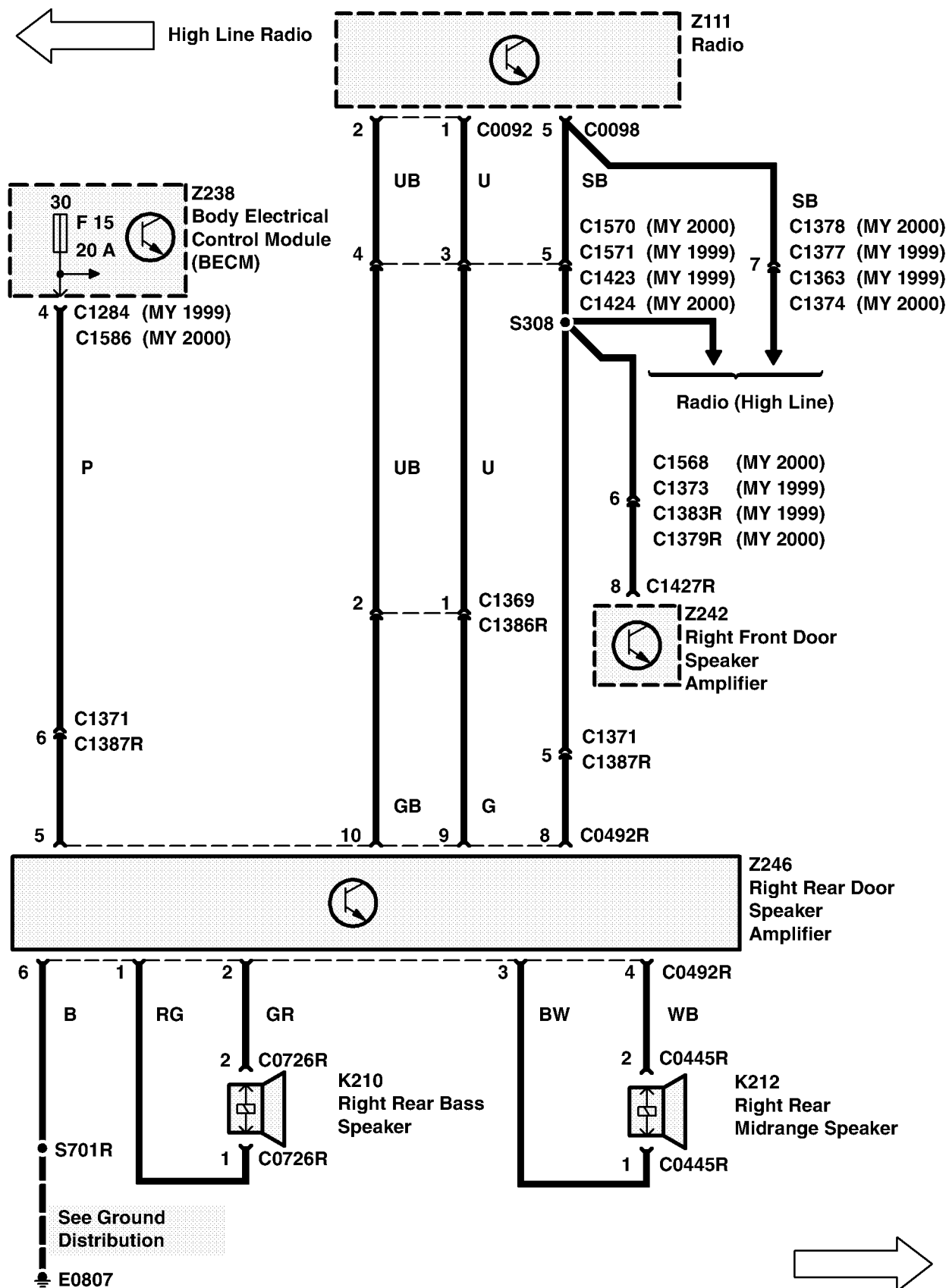
Low Line Radio

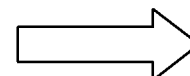
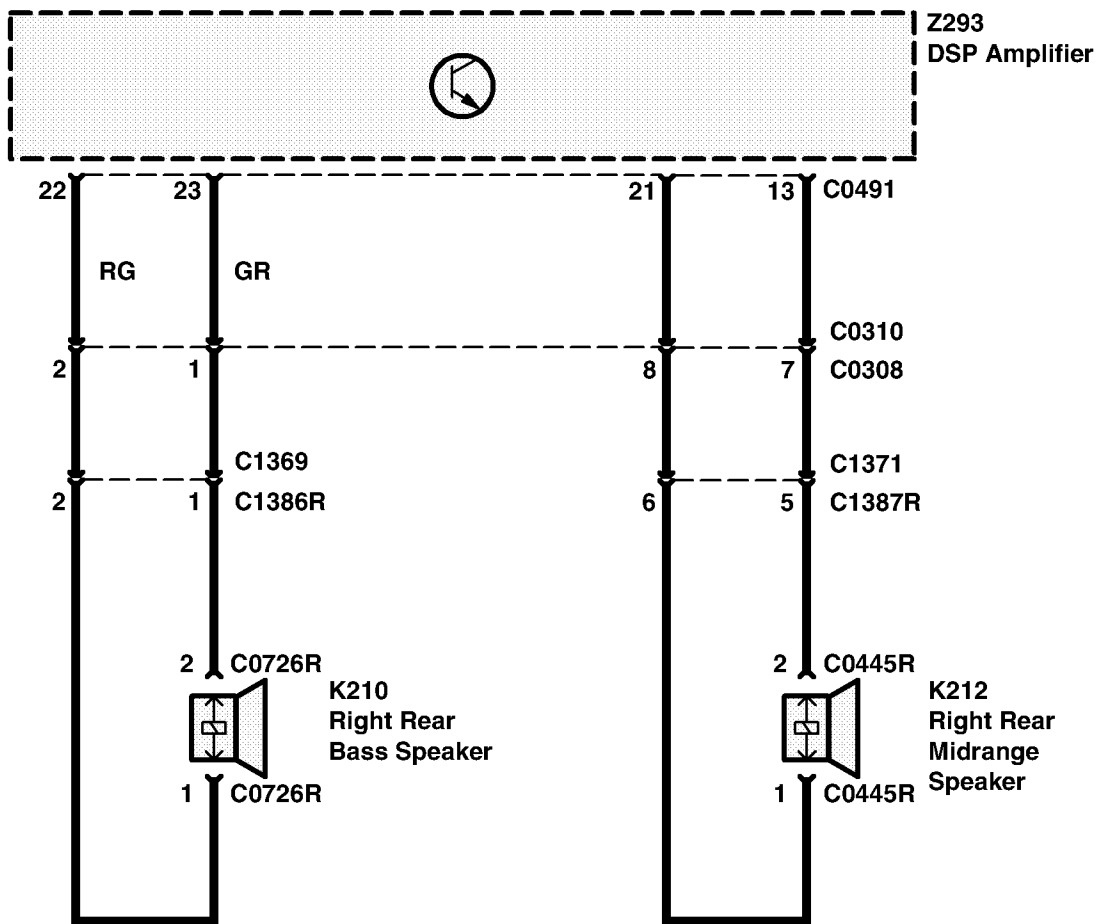
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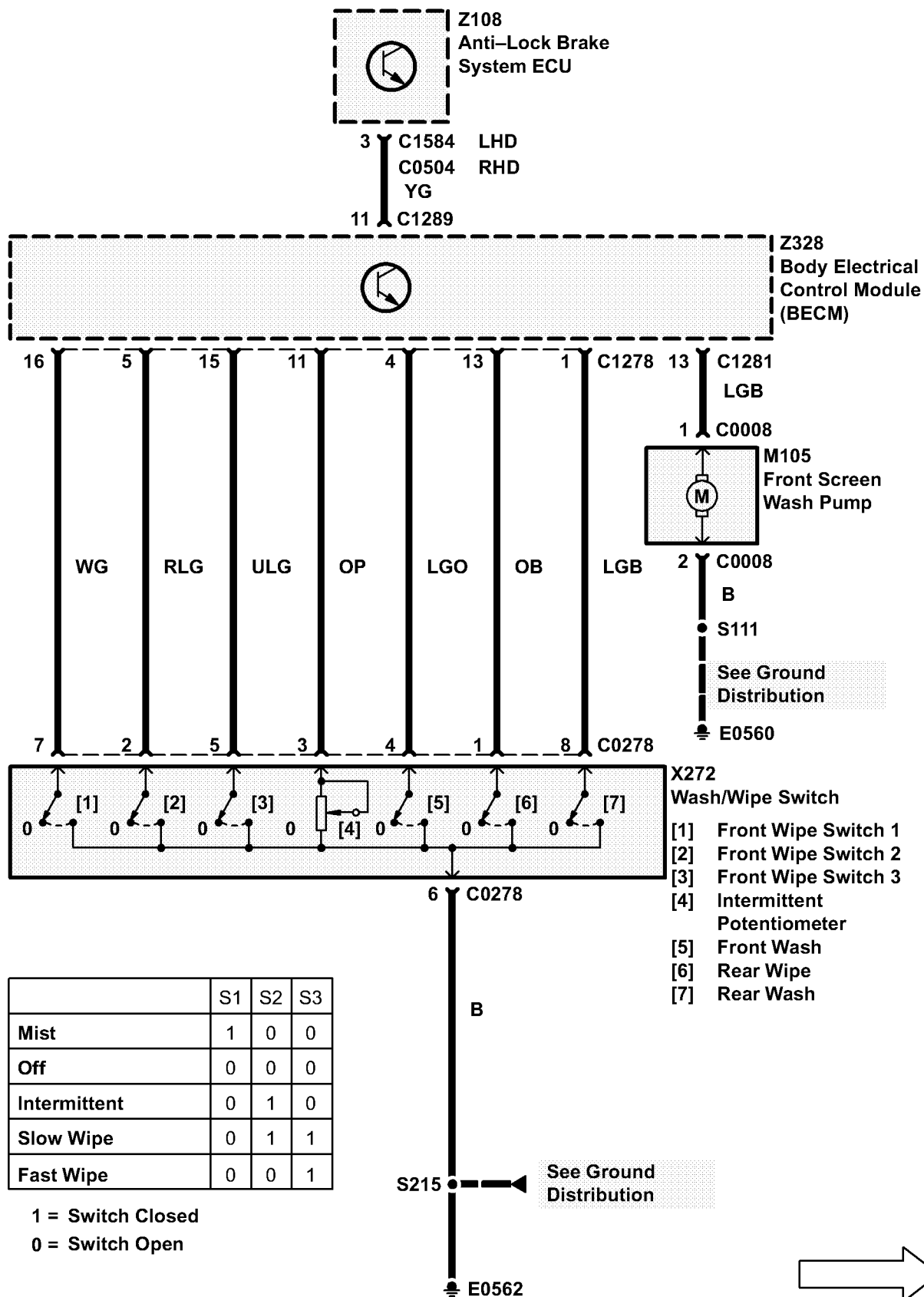
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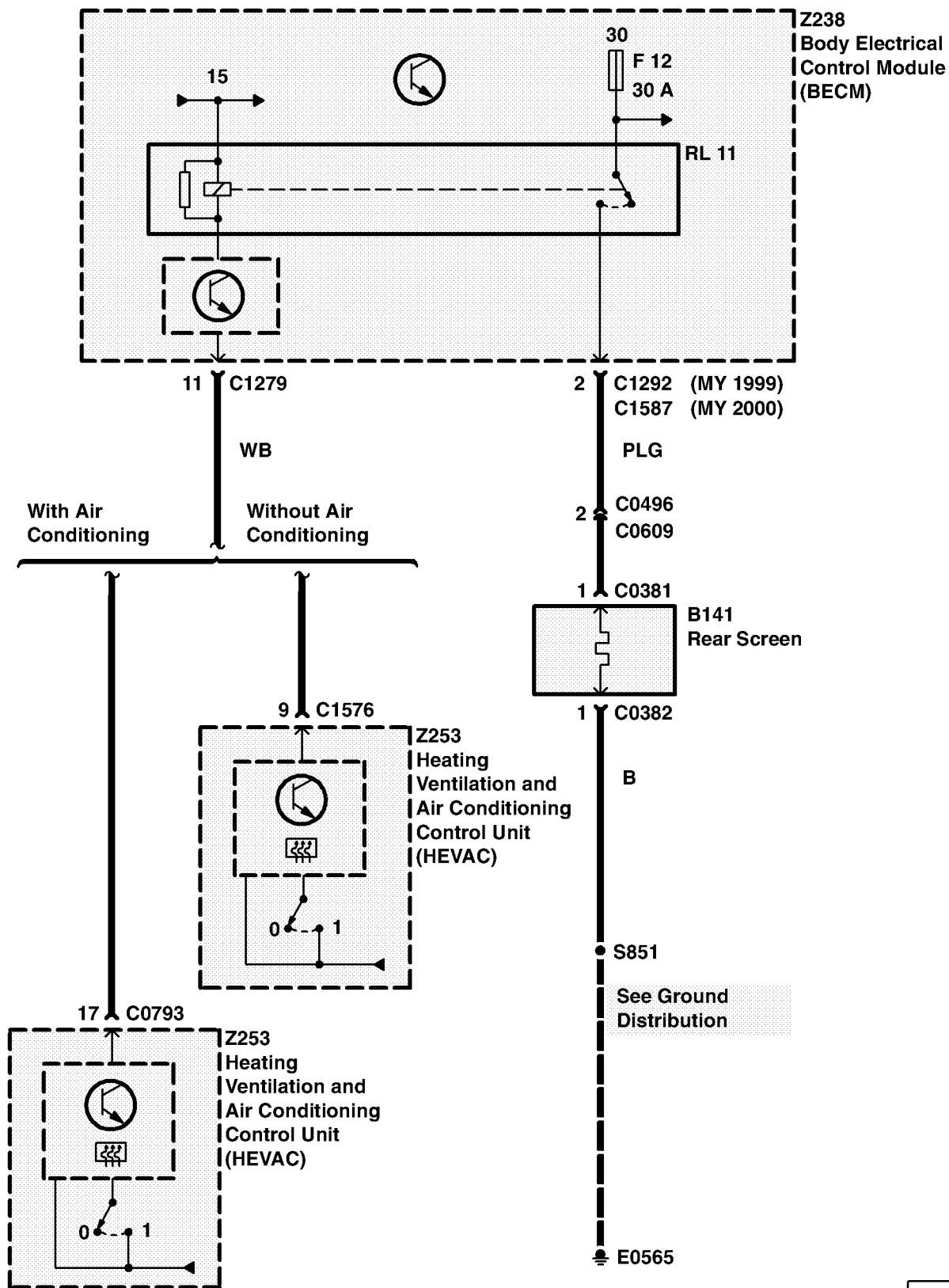


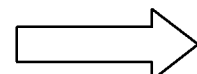
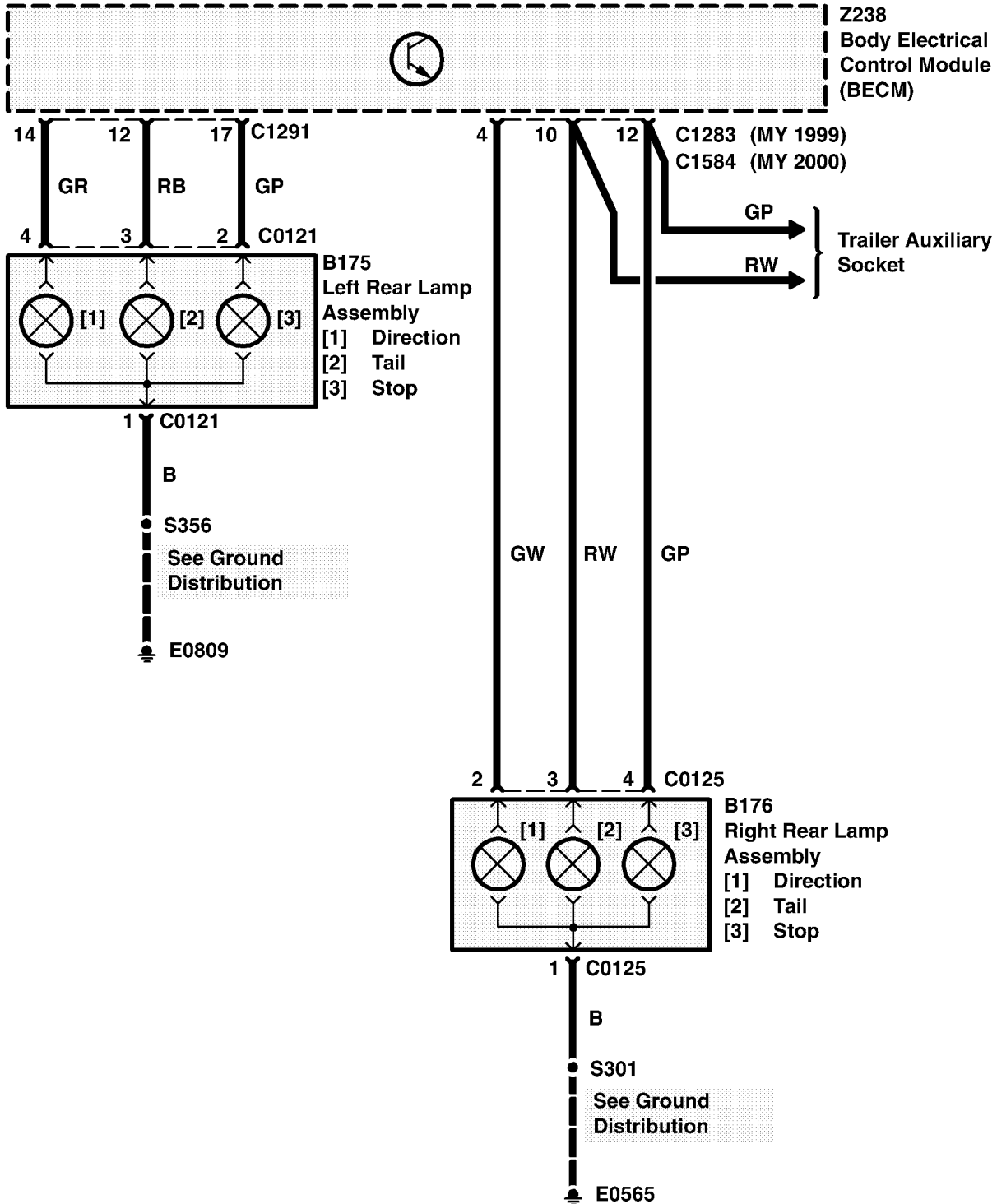
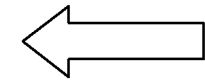
E6 RADIO (HIGH LINE)

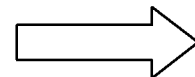
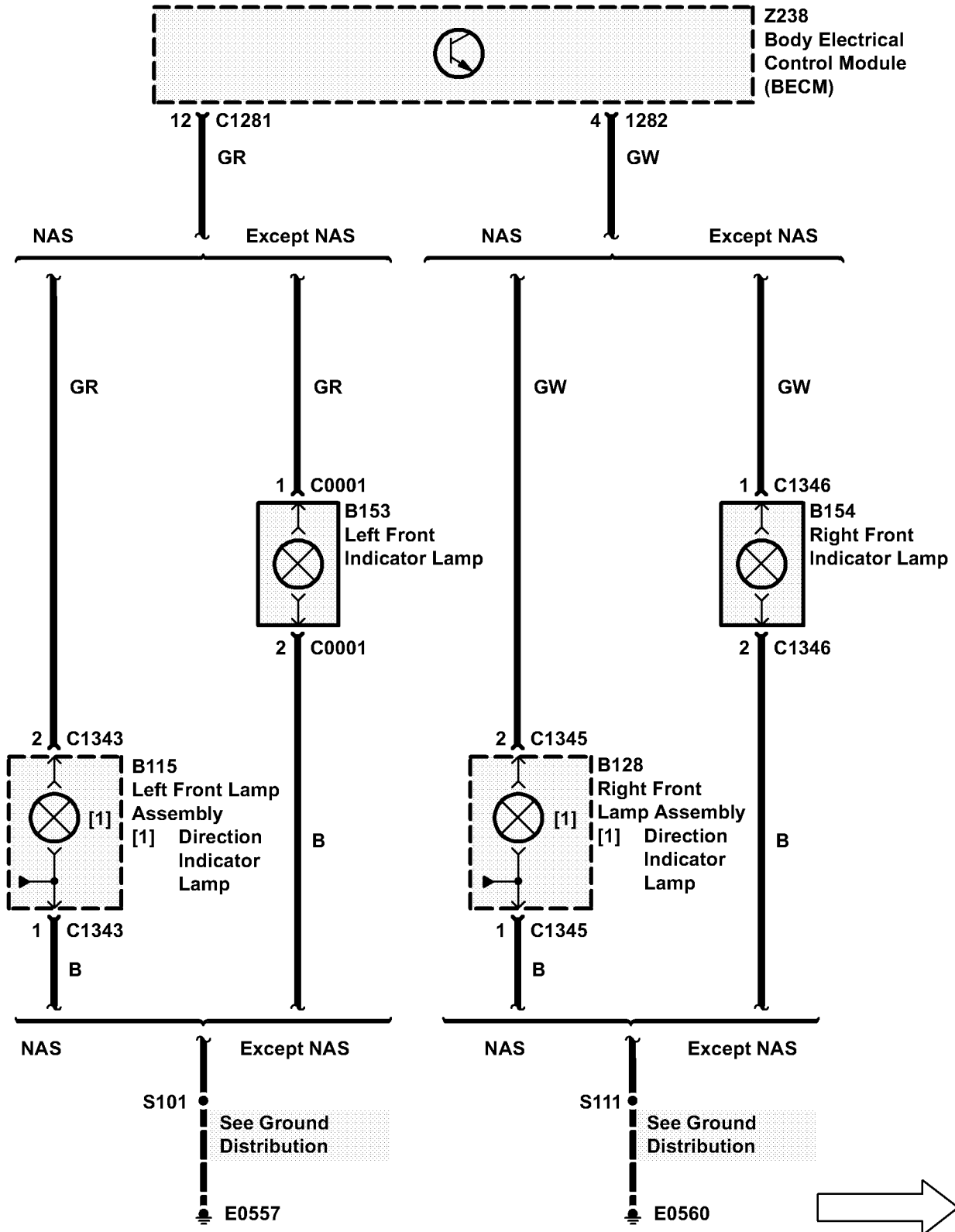
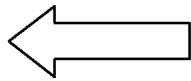


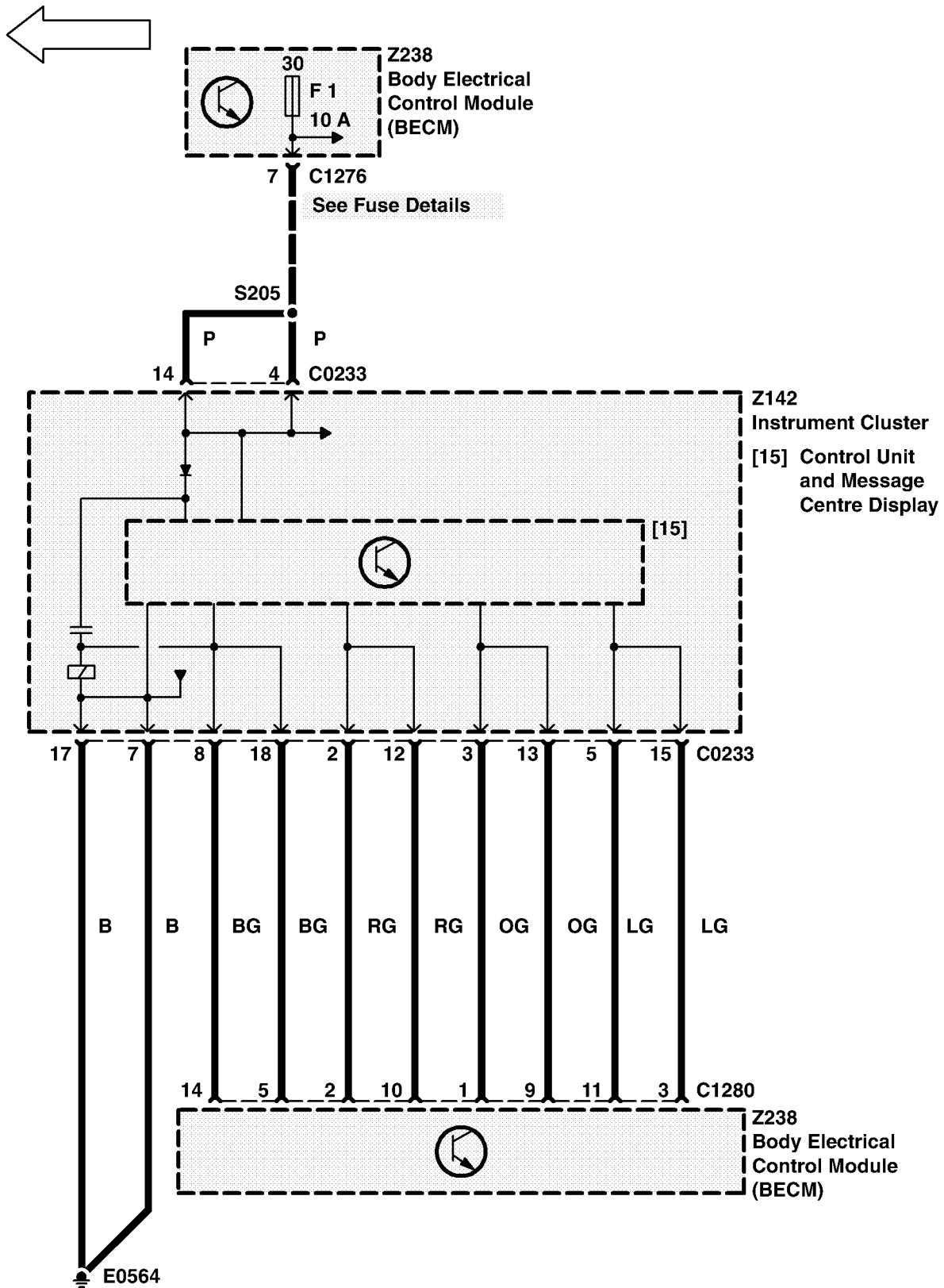


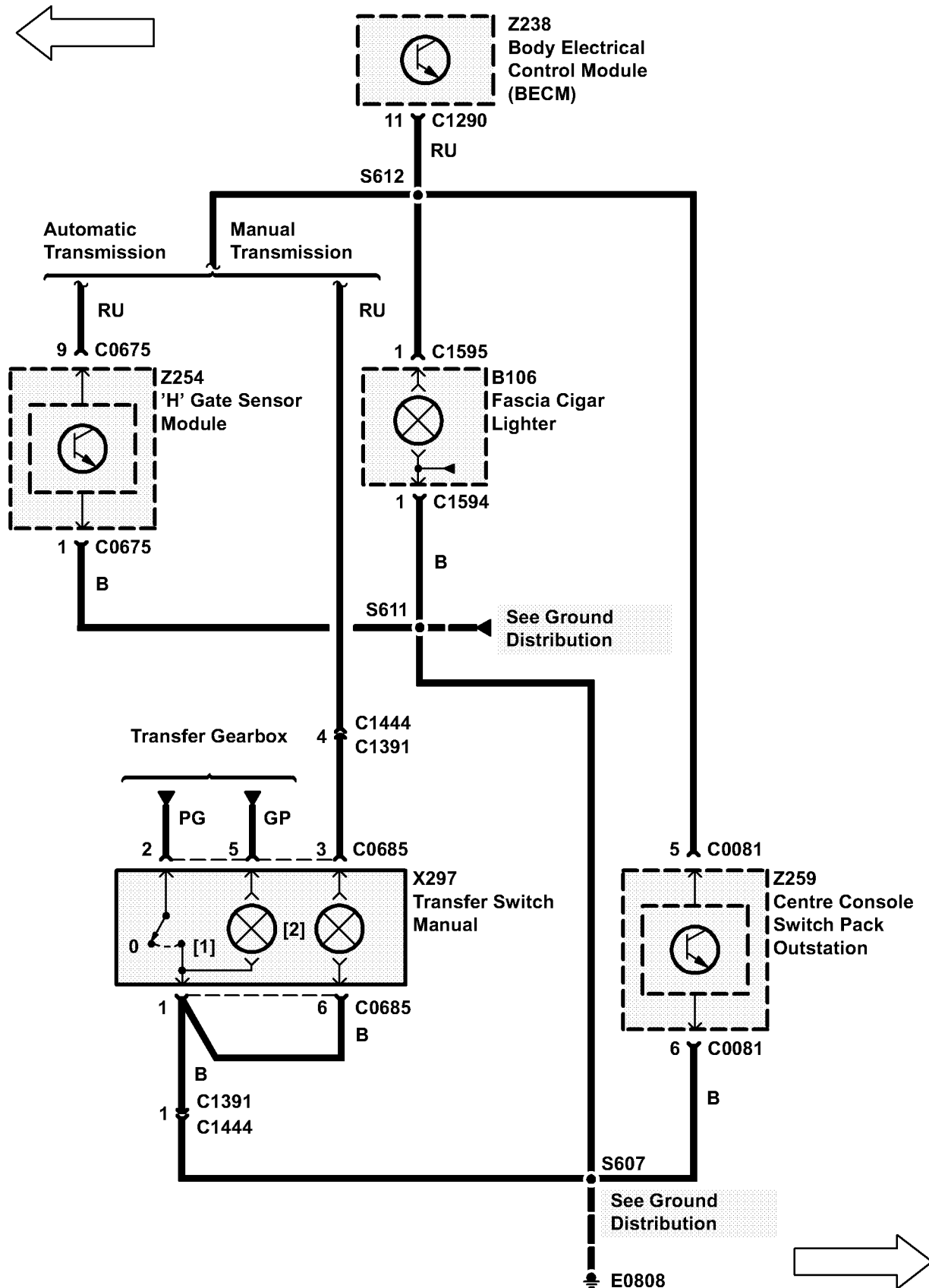


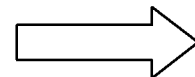
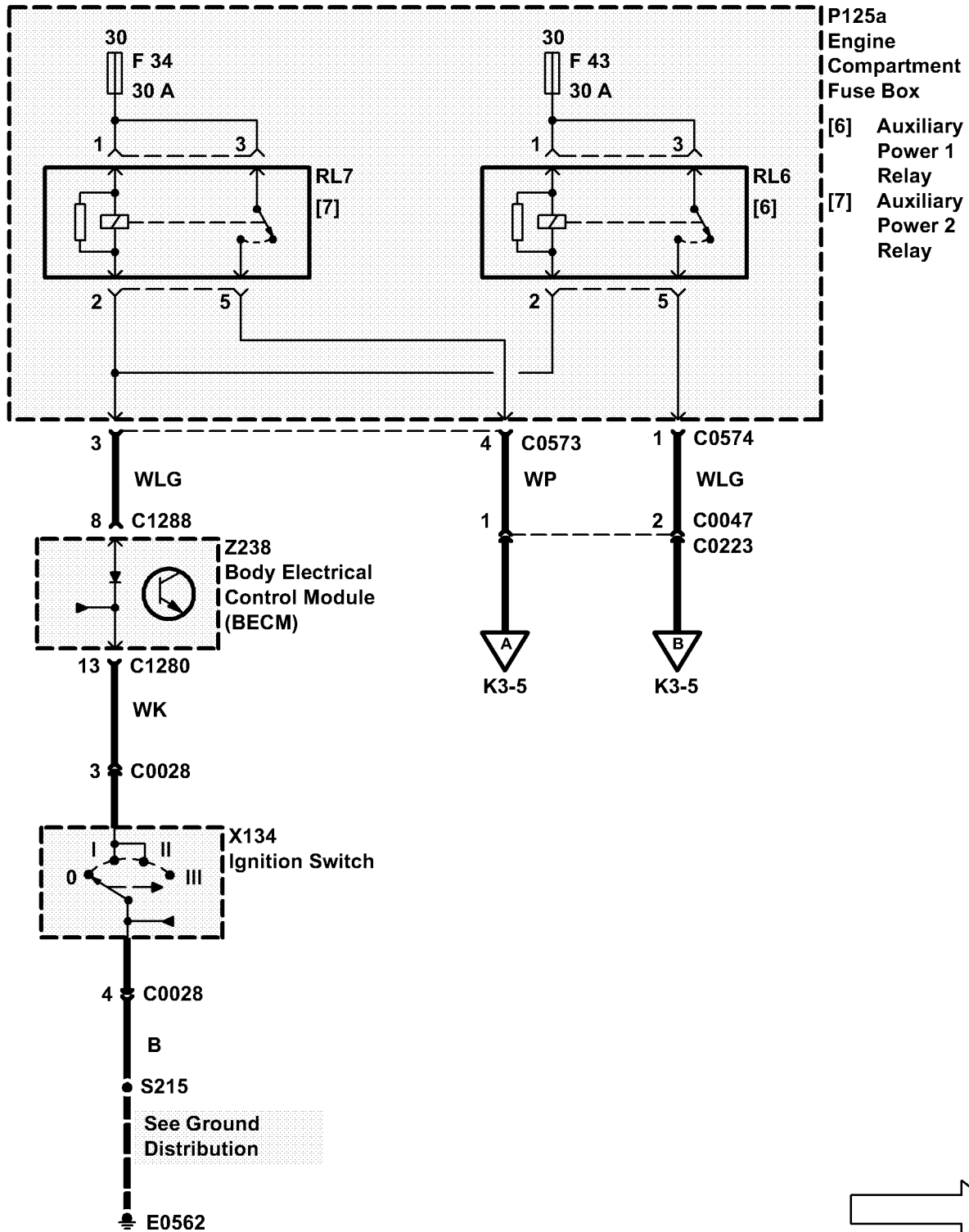
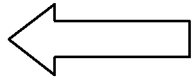


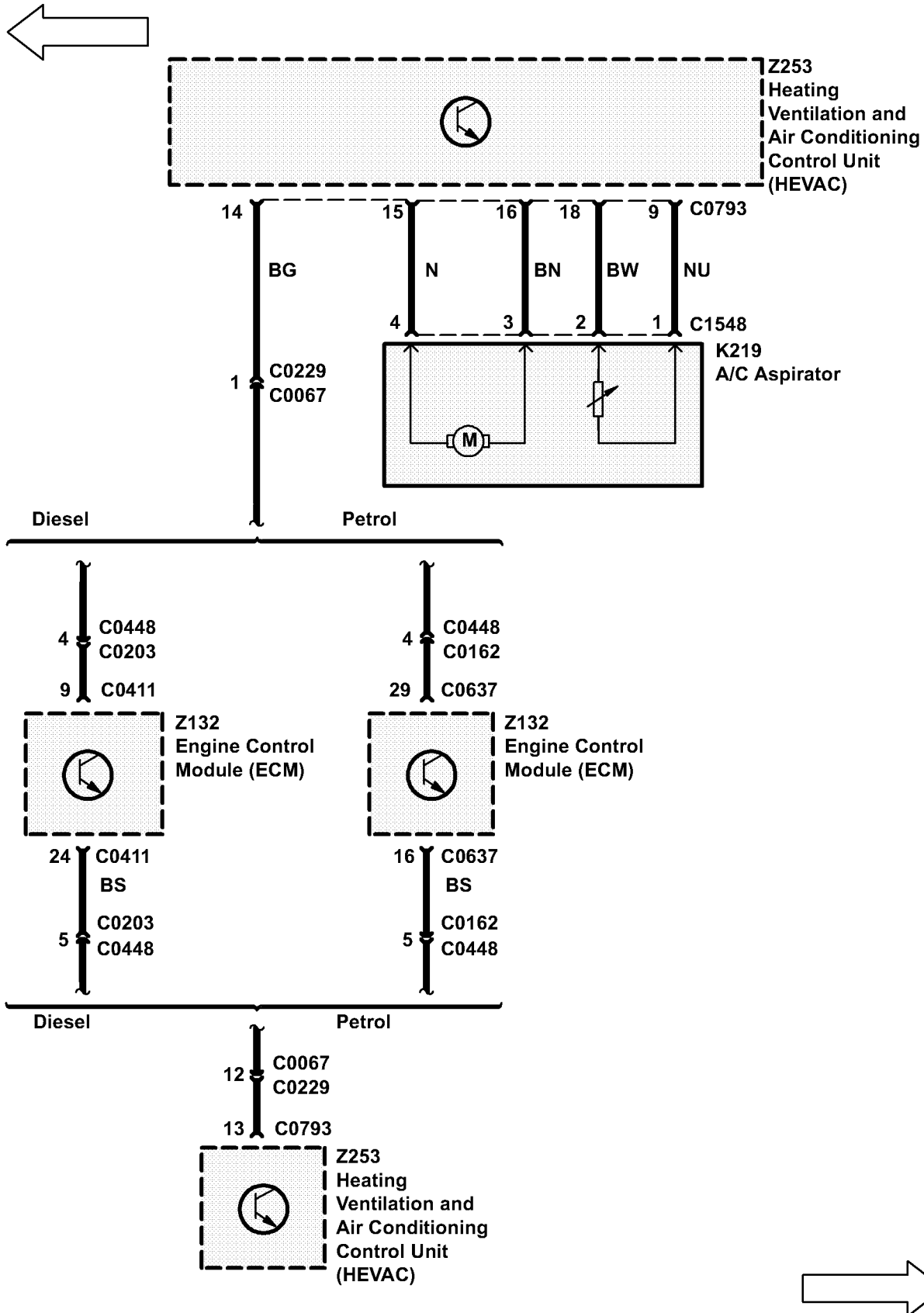


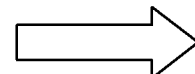
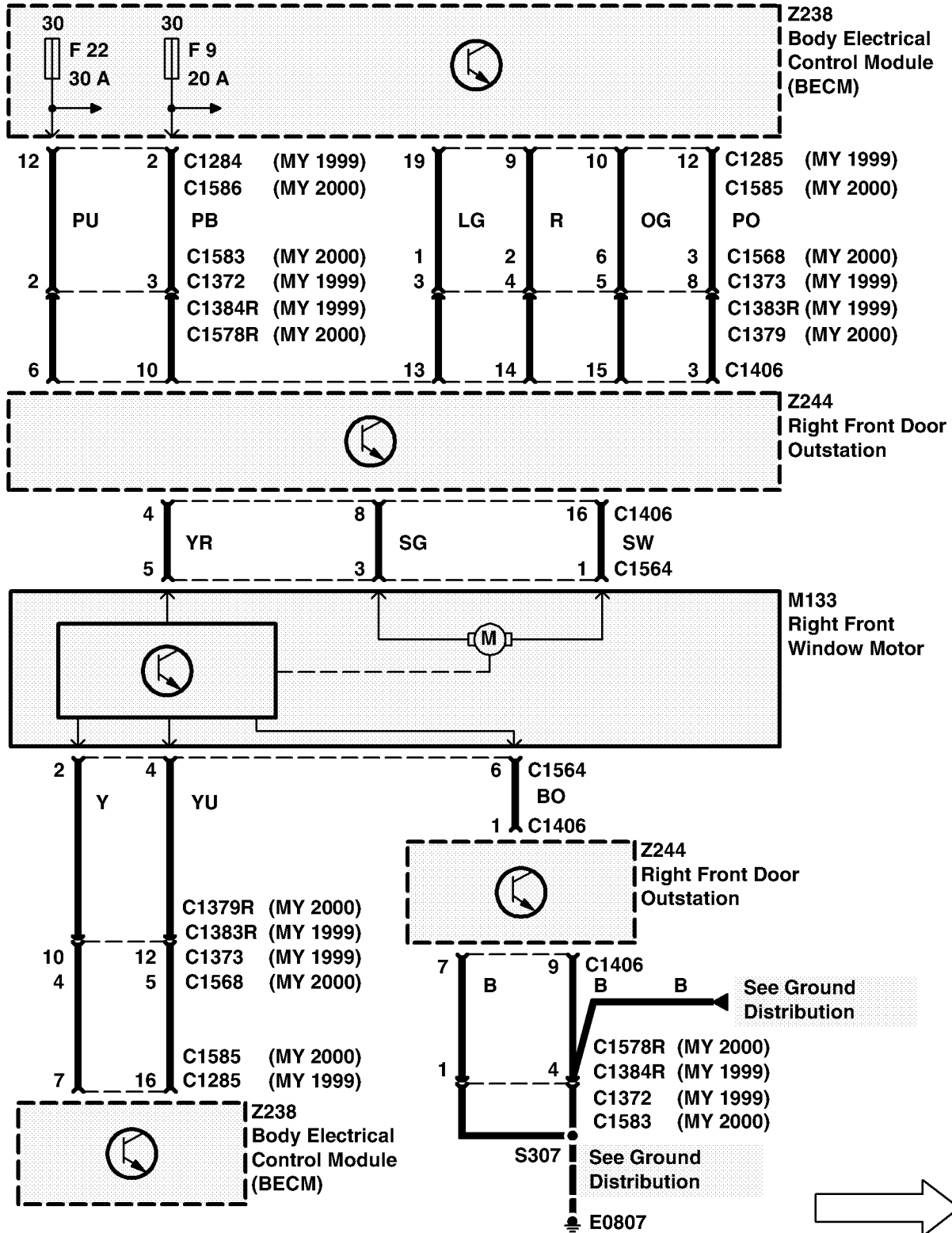
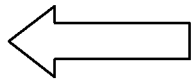


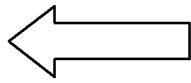




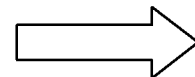
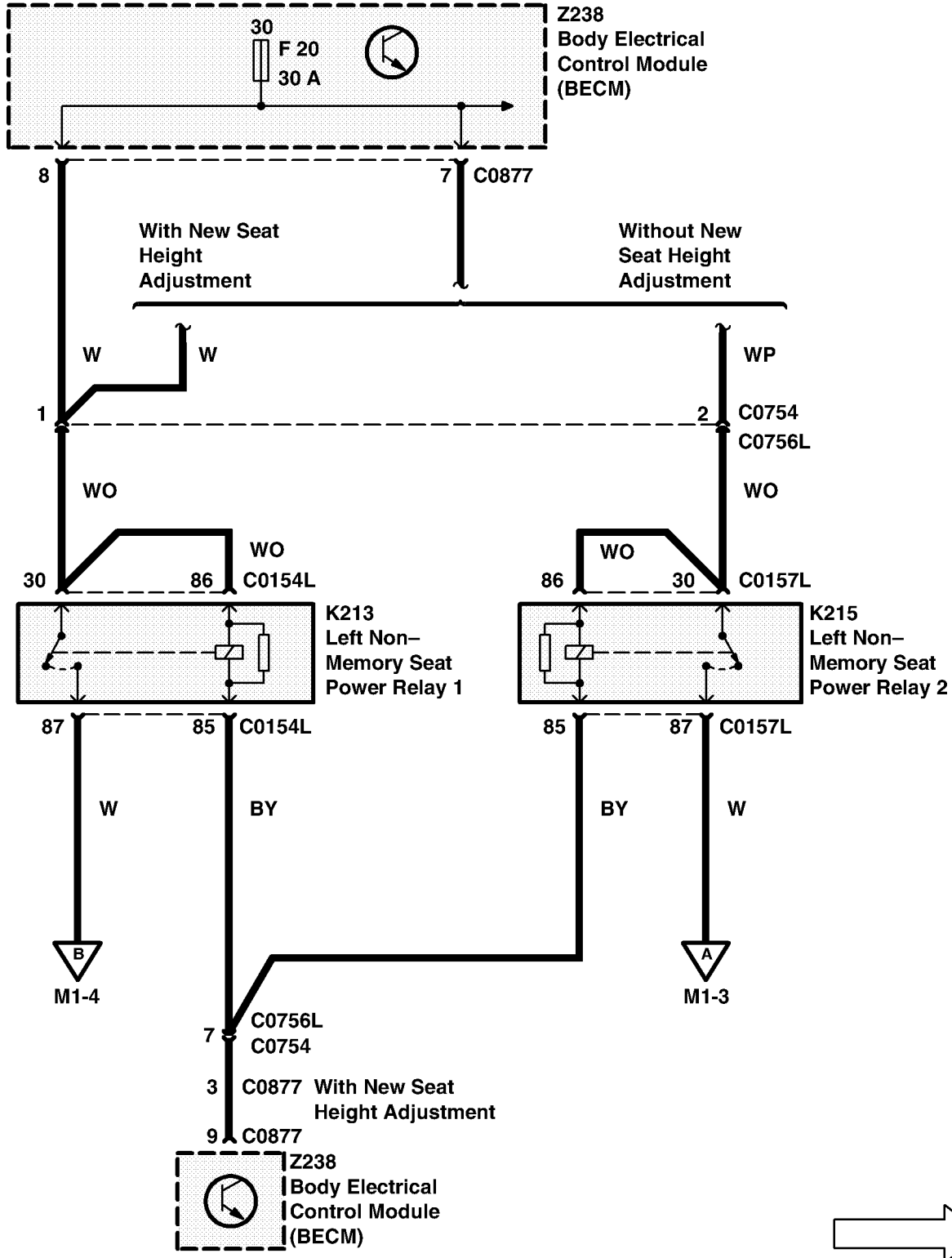








Power Seats
(Left)



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:

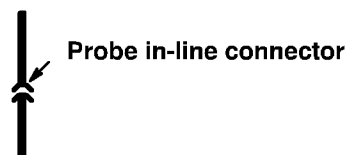
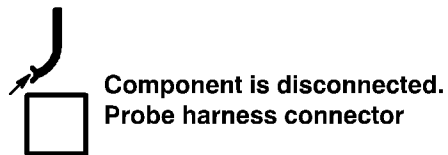
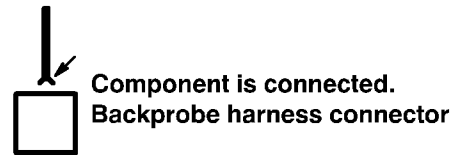
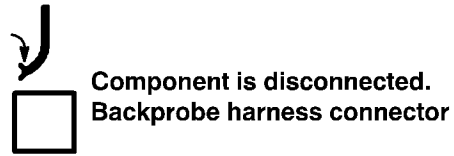


TERMINAL NUMBER	DESIGNATION
50	Battery voltage: Ignition Switch in position III
30	Battery voltage: supplied constantly
15	Battery voltage: Ignition Switch in position II or III
R	Battery voltage: Ignition Switch in positions I, II
31	Ground

See Introduction (i) for additional circuit diagram symbols.

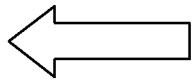
DIAGNOSIS

- 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.

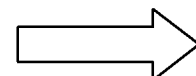
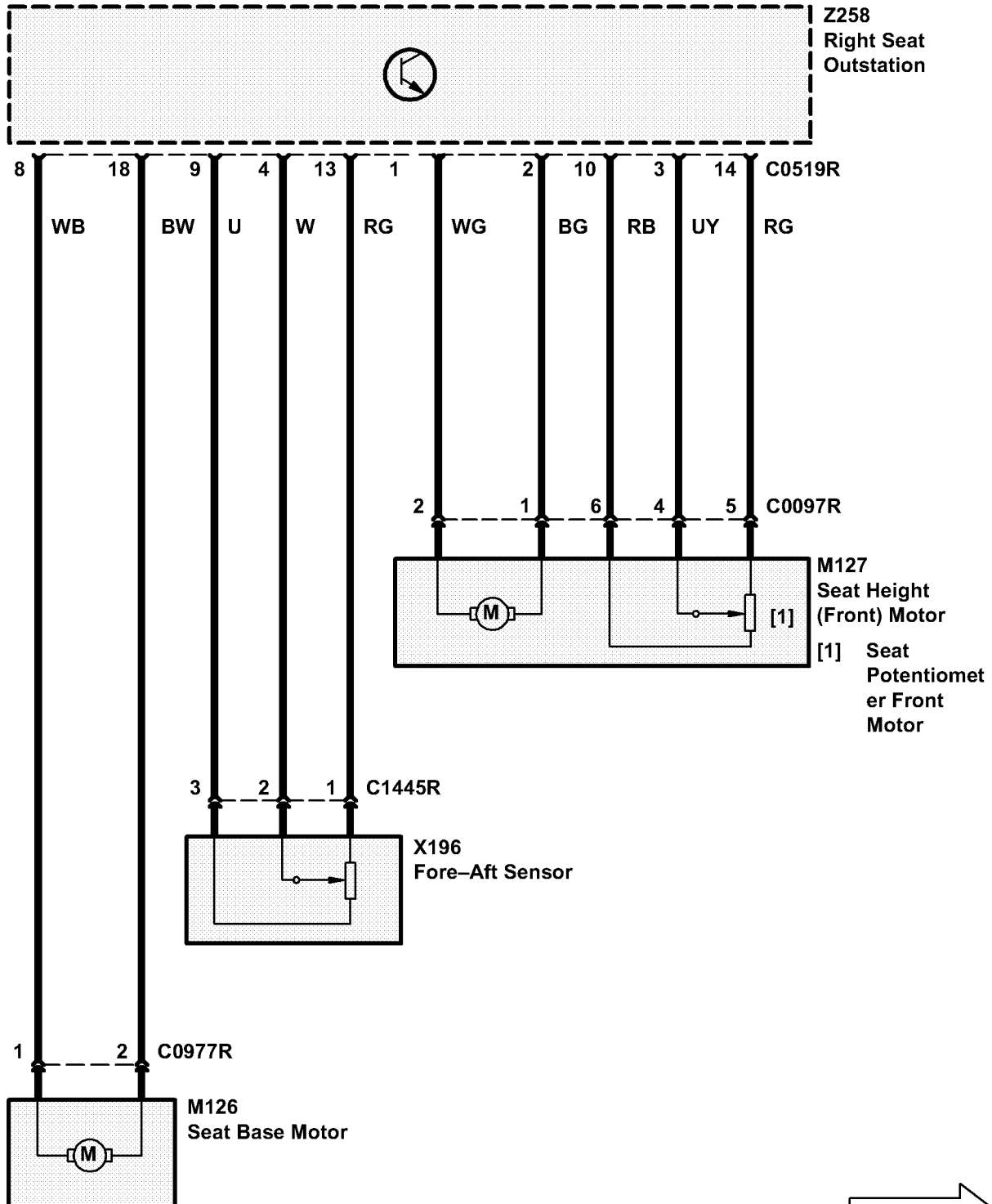


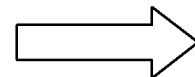
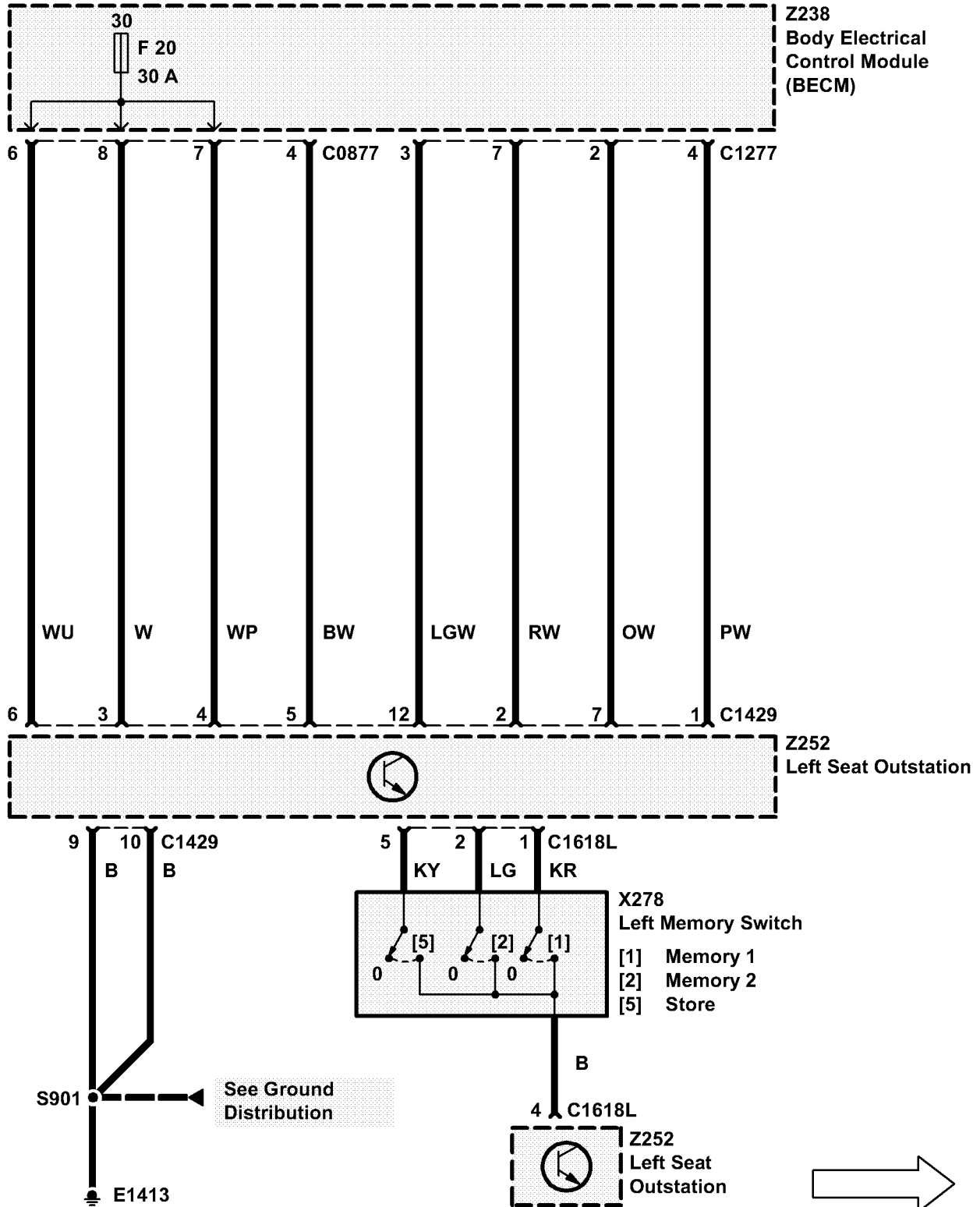
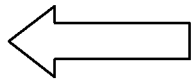
M4

MEMORY SEATS (RIGHT)



Memory Seats (Right)





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Direction indicators

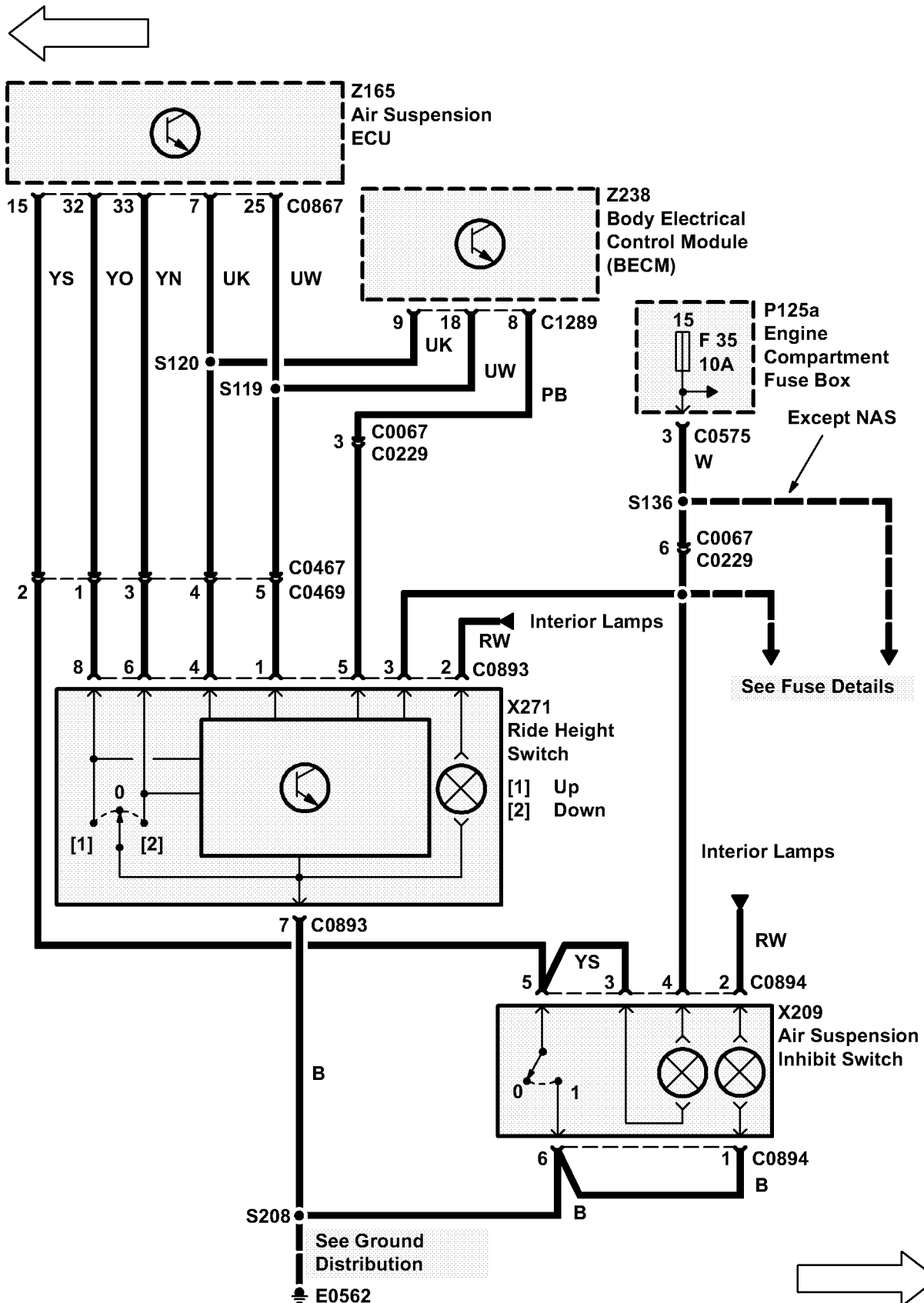
The indicator warning lamp and trailer warning lamp will diagnose the status of the vehicle's rear filaments, and trailer direction indicator filaments according to the following table:

Indicator w/l	Trailer w/l	Vehicle filament	Trailer filament
Flash	Flash	Good	Good
Flash	Extinguished	Good	Fail/not fitted
Flash	Flash	Fail	Good
Flash w/ double rate	Extinguished	Fail	Fail/not fitted

In the case of hazard light operation with trailer lamps fitted, the failure of a trailer direction indicator light will cause the trailer warning light to flash at double rate, while the direction indicator light will flash at the "standard" rate.

S1

AIR SUSPENSION



Remote Handset Operation

The handset has two buttons, lock/superlock and unlock. The operation is as follows:

- Lock – single press of lock button.
- Superlock – double press of lock button (within 1 second).
- Unlock – single press of unlock button from either locked or superlocked.
- Lazy lock – press and hold lock button for more than 1 second.
- (NB Hold on second press if superlock required as well.)
- Lazy Seats – press unlock button for more than 1 second.
- (NB This will unlock as well.)

Locking operation

There are six different ways to lock a new Range Rover. These are:

- **Sill Locking**

Depressing either of the front door sill buttons while both front doors are closed will result in all the doors and the tailgate locking, and the vehicle entering a sill locked state.

In this state the alarm remains inactive (provides no protection), with no LED flash.

Sill locking can be achieved independently of key-in and ignition switch status.

- **Slam Locking:**

Depressing either of the front door sill buttons with either front door open, will result in all the doors and the tailgate locking and the vehicle entering a slam locked state.

Following a slam locking operation, the alarm will enter the perimetric mode, engine crank will be disabled and electronic engine immobilisation will be activated.

Attempting to slam lock the vehicle with either the key in the ignition, or the ignition on, will cause unlocking of all the doors.

- **Key Locking**

A single turn of the key towards the front of the vehicle will result in all the doors and tailgate locking.

The alarm will enter the perimetric mode, engine crank will be disabled and electronic engine immobilisation will be activated.

- **Key Superlocking**

A double turn of the key in a clockwise direction (i.e. towards the front of the vehicle) within 2 seconds, provided the doors, tailgate and bonnet are closed, will result in all the doors being superlocked.

The alarm will enter the perimetric mode, engine crank will be disabled and electronic engine immobilisation will be activated.

- **Remote Locking**

A single press of the lock button on the remote handset will result in all the doors and the tailgate locking.

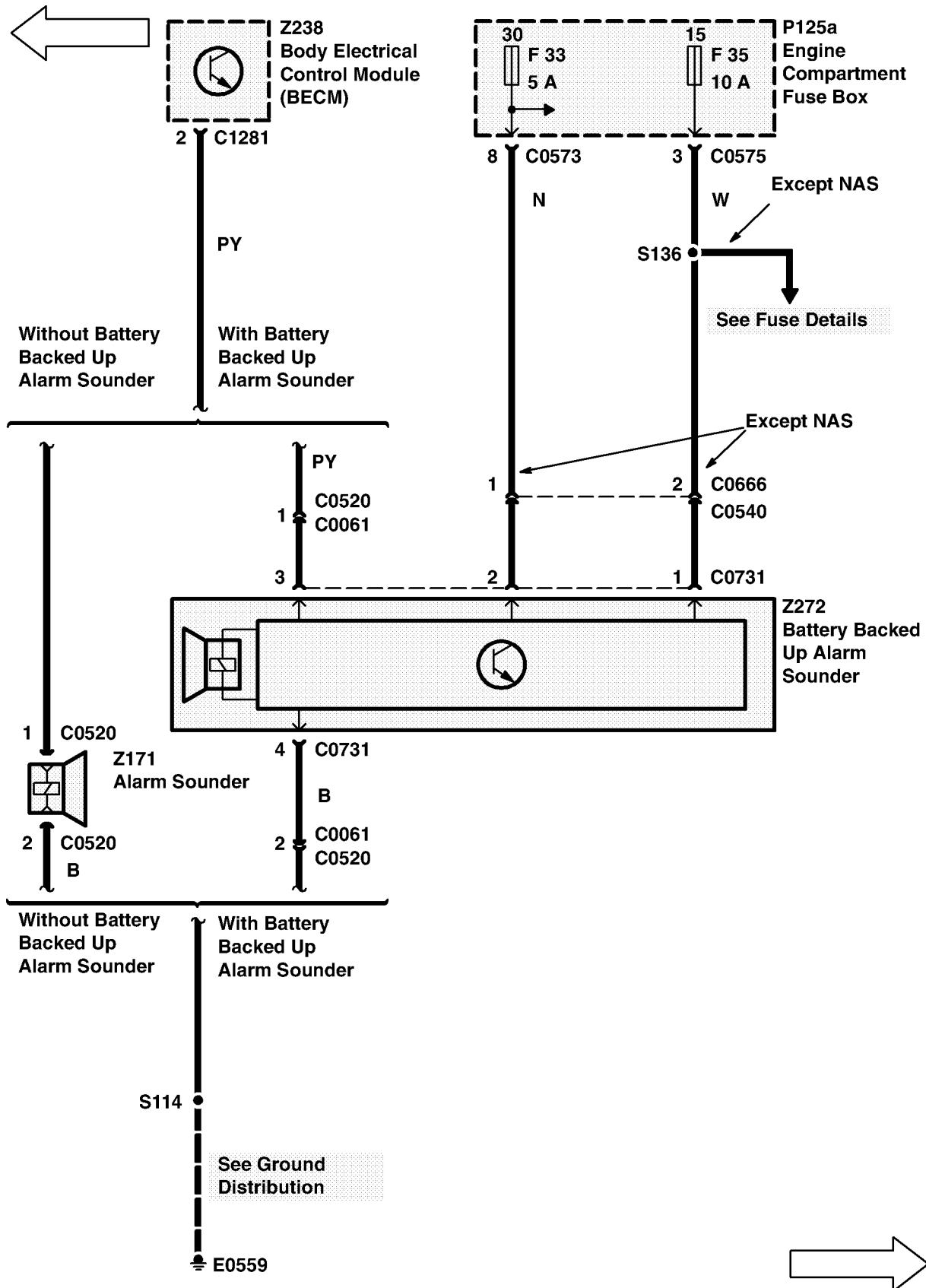
The alarm will enter the perimetric mode, engine crank will be disabled and electronic engine immobilisation will be activated.

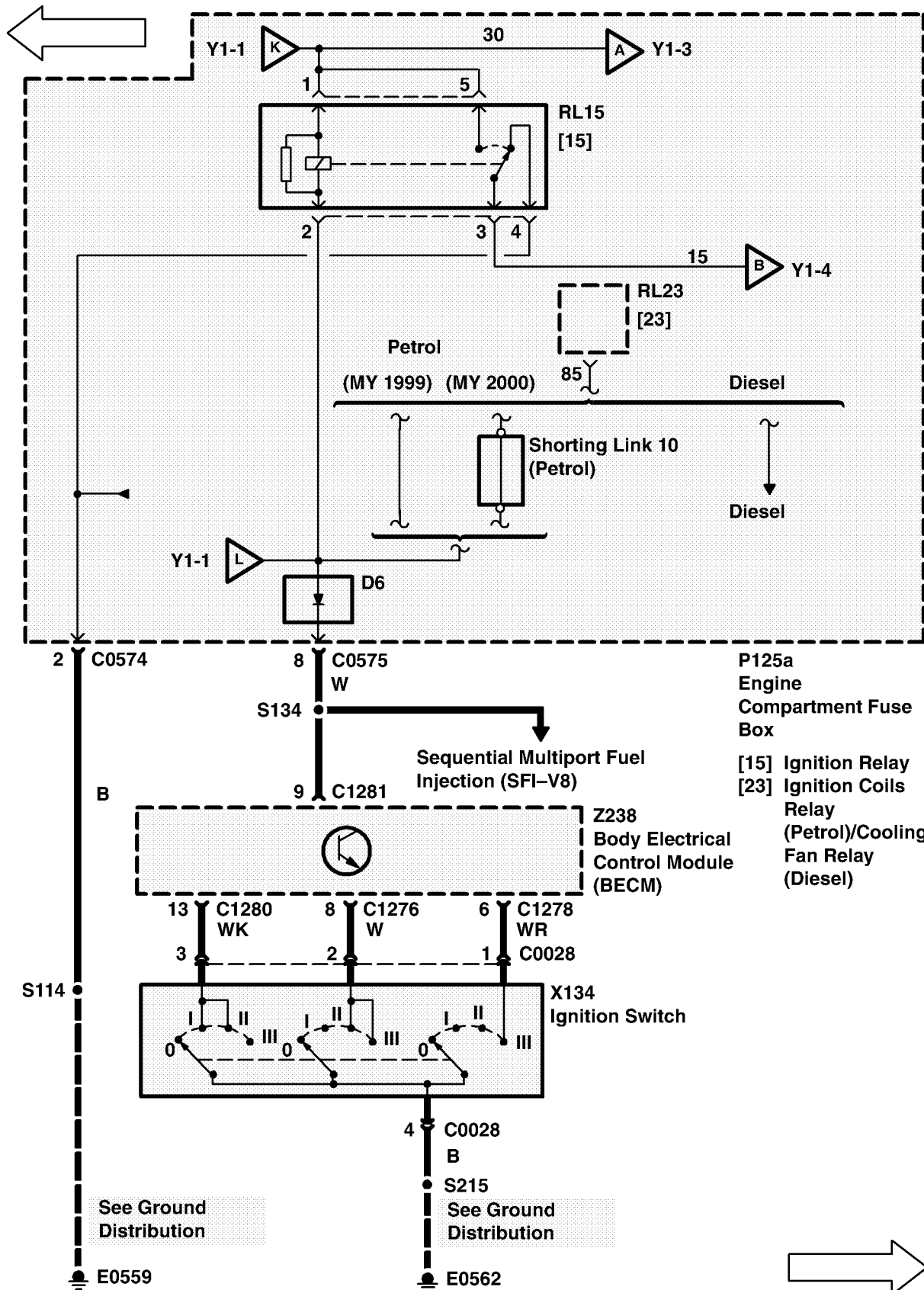
- **Remote Superlocking**

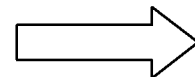
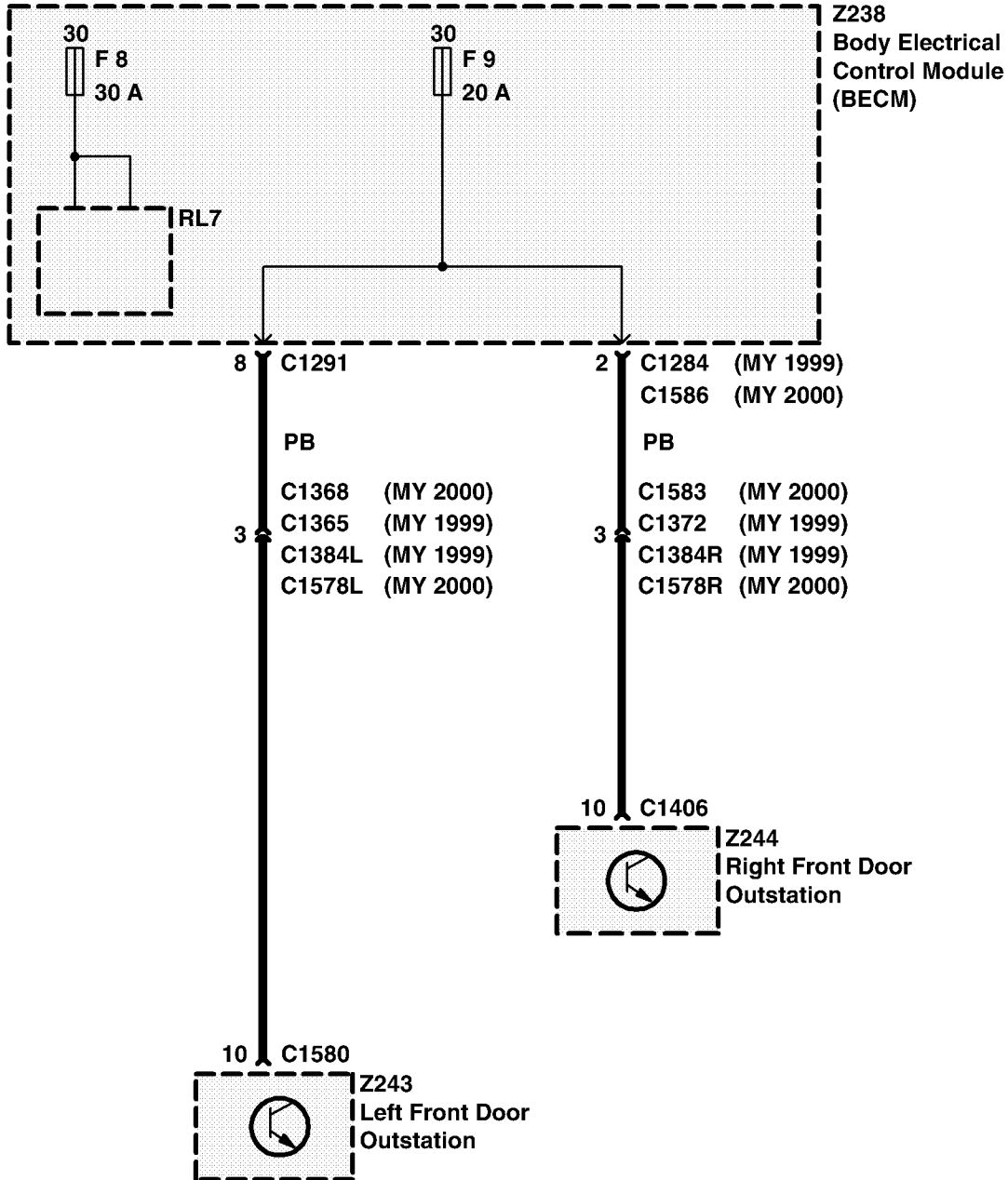
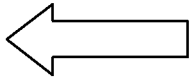
A double press of the lock button on the remote handset within 2 seconds, provided the doors, tailgate and bonnet are closed, will result in all the doors being superlocked (subject to ultrasonic look around – see Ultrasonic Sensor).

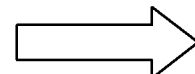
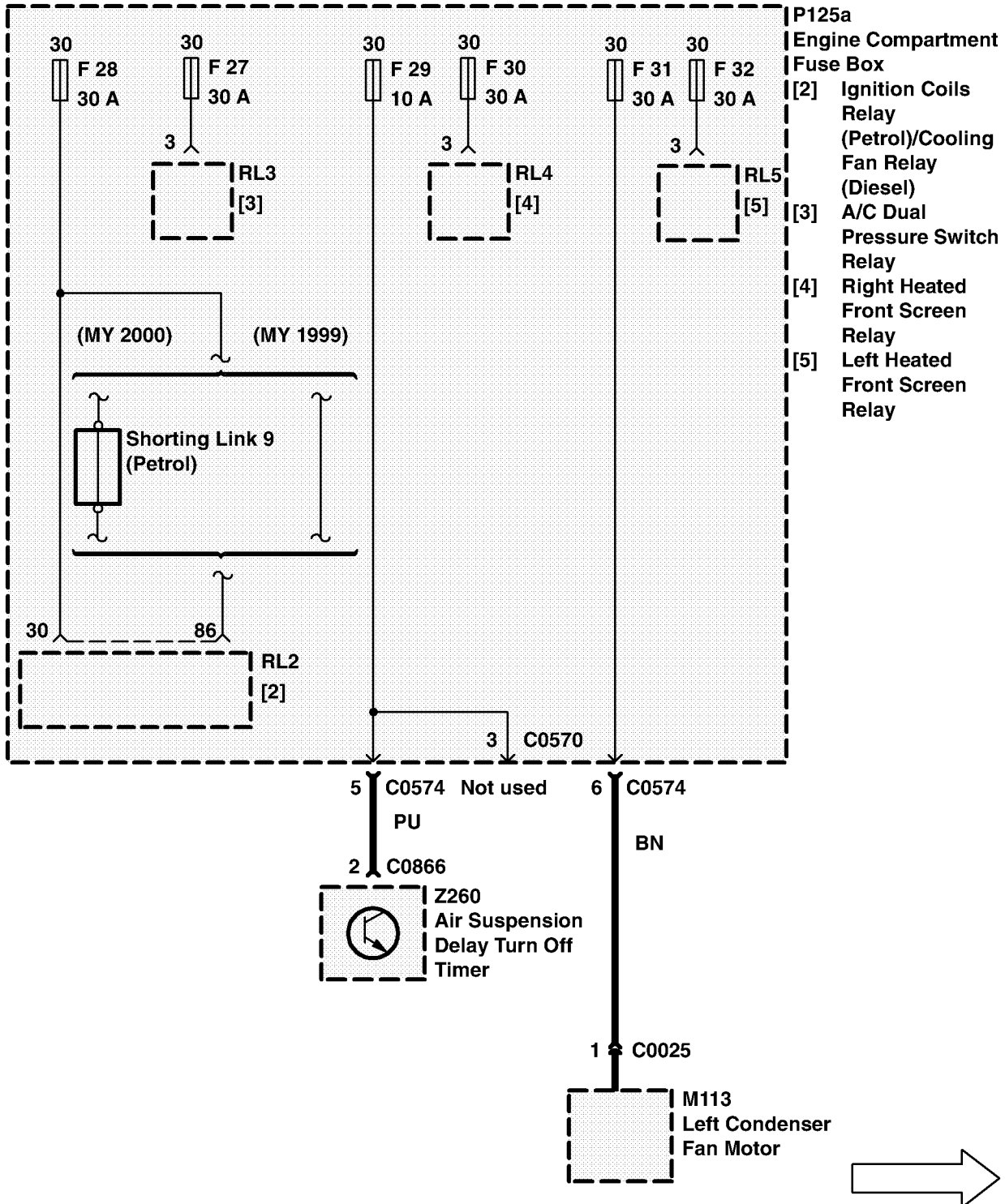
Providing all the windows are closed, the perimetric and volumetric alarm will be set. If all the windows are not closed, then only the perimetric alarm will be set.

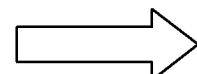
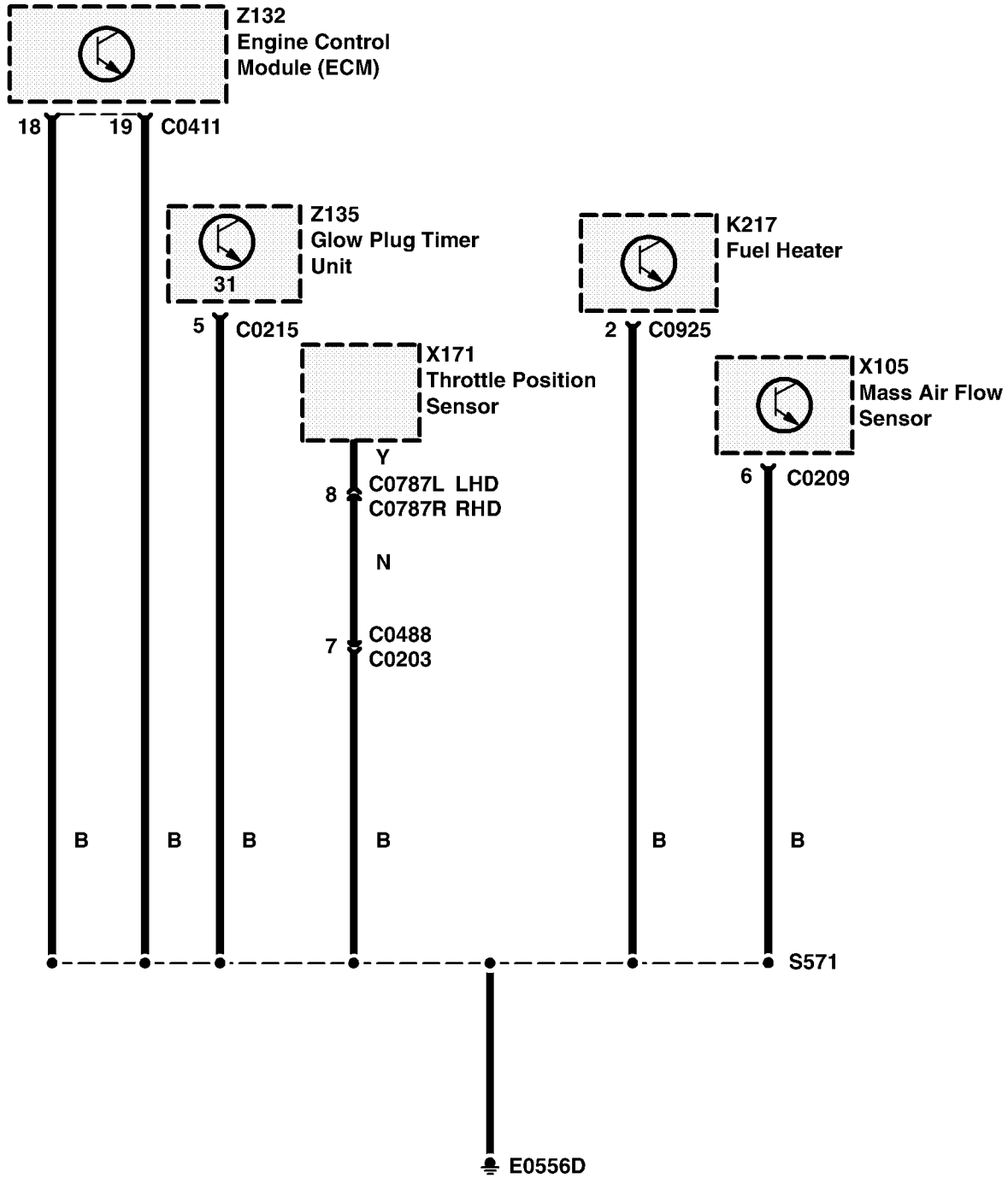
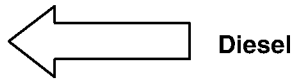
Engine crank will be disabled and electronic engine immobilisation will be activated.

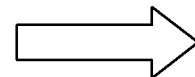
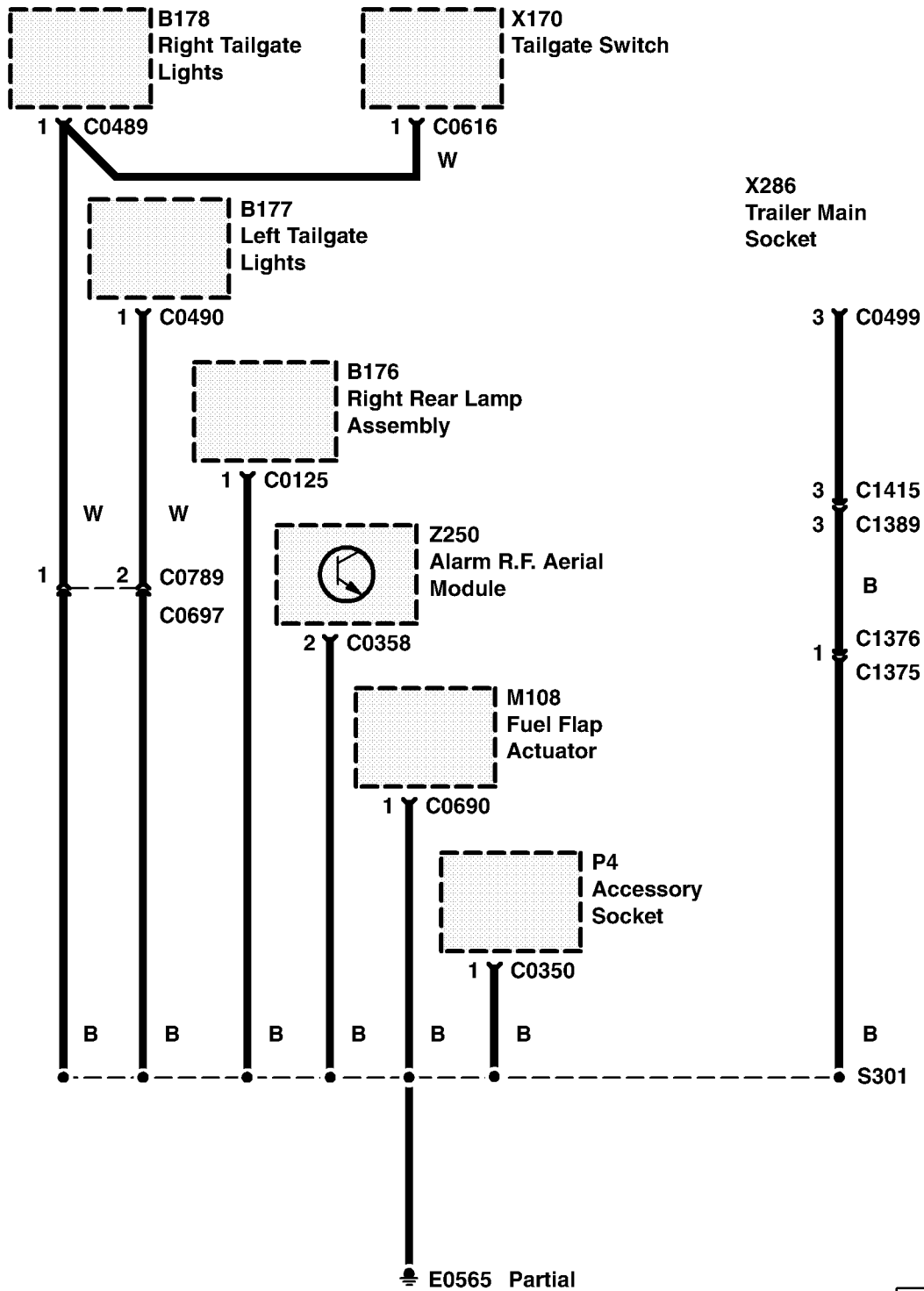
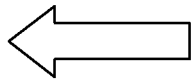


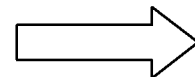
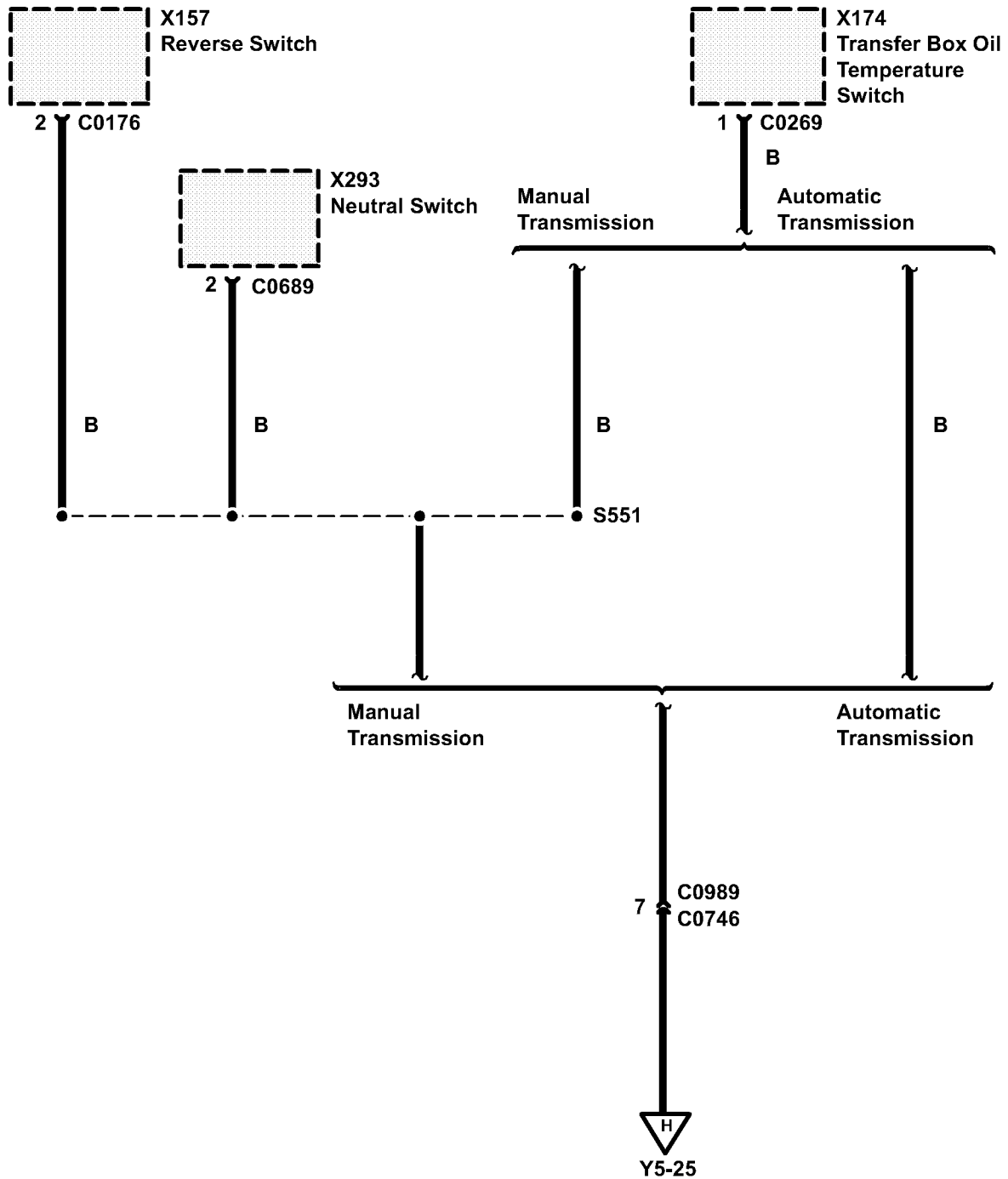
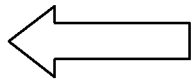






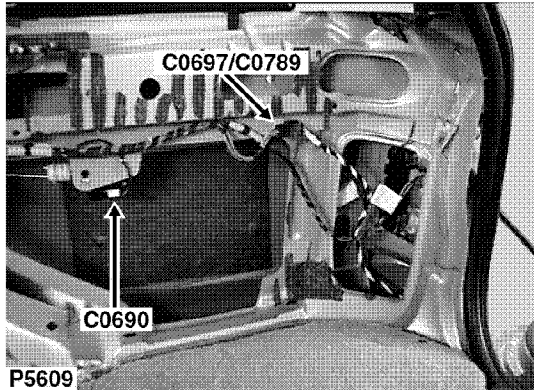




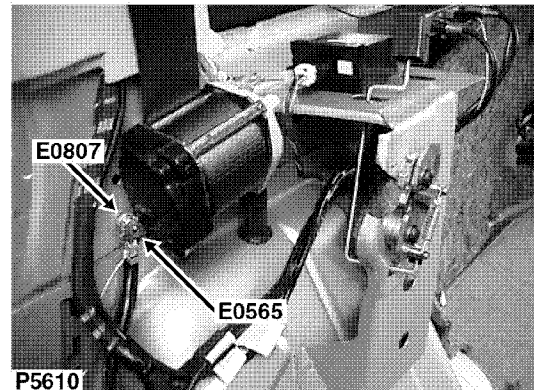


Component	Location	Manual
GPS Antenna (Z292)	lower RH side of windscreen	87
'H' Gate Sensor Module (Z254)	in centre console	44
Handbrake Switch (X191)	beneath centre console on handbrake lever	70
Hazard Switch (X220)	centre of fascia	86
Headlamp Wash Pump (M110)	behind RH side of front bumper	84
Headrest Motor (M148)	RH side of seat squab frame	78
Headrest Potentiometer (X279)	RH side of seat squab frame	78
Heating Ventilation and Air Conditioning Control Unit (HEVAC) (Z253)	centre of fascia	80
Home Link Connector (X325)	front centre of roof	86
Idle Air Control Valve (M112)	LH side of engine	18
Ignition Coils Pack 1 (Z281)	LH rear of engine	86
Ignition Coils Pack 2 (Z282)	LH rear of engine	86
Ignition Key Lock Solenoid (K191)	right of steering column	86
Ignition Key Lock Solenoid Diode (Z294)	right of steering column in LHD Fascia Wiring Harness	86
Ignition Switch (X134)	left side of steering column	86
Inertia Fuel Shut-Off Switch (X135)	behind RH footwell trim panel	19
Injector Needle Lift Sensor (X256)	LH side of engine	19
Instrument Cluster (Z142)	driver's side of fascia	88
Intake Air Temperature Sensor (X311) (Diesel)	top LH side of engine on intake manifold	19
Intake Air Temperature Sensor (X311) (Petrol)	LH side of engine compartment on air cleaner	19
Key-In Switch (X229)	right of steering column	86
Key Illumination (B170)	right of steering column	86
Left Antenna Amplifier (Z177)	LH side of luggage compartment behind trim panel	86
Left Blend Motor (M163)	beneath centre of fascia	82
Left Blower Motor (M158)	behind driver's side of fascia (lower dash panel removed)	80
Left Condenser Fan Motor (M113)	behind front grille	82
Left Front Bass Speaker (K202)	front door trim panel – lower	86
Left Front Door Lock Actuator (M153)	in top rear of LH front door	76
Left Front Door Outstation (Z243)	behind front door trim panel	86
Left Front Door Puddle Lamp (B114)	underside of front door	86
Left Front Door Speaker Amplifier (Z241)	behind front door trim panel	86
Left Front Fog Lamp (B184)	behind LH side of front bumper	86

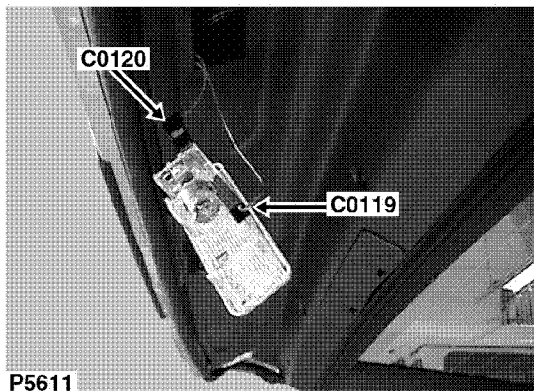
Connector	Location	View
C0518L (6-W)	underside of respective front seat to seat recline motor	37
C0518R (6-W)	underside of respective front seat to seat recline motor	37
C0519L (18-W) (with memory)	underside of respective front seat on left seat outstation	35
C0519L (18-W) (without memory)	underside of respective front seat	35
C0519R (18-W) (with memory)	underside of respective front seat on right seat outstation	35
C0519R (18-W) (without memory)	underside of respective front seat	35
C0520 (2-B) (with battery backed up alarm sounder)	LH side of engine compartment to battery backed up alarm sounder	149
C0520 (2-B) (without battery backed up alarm sounder)	RH side of engine compartment on alarm sounder	71
C0522 (3-B)	top LH side of engine on fuel injector	119
C0523 (2-B)	top RH side of engine on fuel injector	118
C0524 (2-B)	top LH side of engine on fuel injector	119
C0525 (2-B)	top RH side of engine on fuel injector	118
C0526 (2-B)	top LH side of engine on fuel injector	119
C0527 (2-B)	top RH side of engine on fuel injector	118
C0528 (2-B)	top LH side of engine on fuel injector	119
C0529 (2-B)	top RH side of engine on fuel injector	118
C0530L (2-B)	respective front door on left front tweeter	28
C0530R (2-B)	respective front door on right front tweeter	28
C0540 (2-W)	LH side of engine compartment to battery backed up alarm sounder	149
C0556 (E0556)	LH rear of engine compartment near air valve block	110
C0556D (E556D)	beneath engine compartment fuse box	136
C0557 (E0557)	LH front of engine compartment	110
C0558 (E0558)	LH rear of engine compartment near air valve block	110
C0559 (E0559)	RH rear of engine compartment near engine compartment fuse box	74
C0560 (E0560)	RH side of engine compartment	93
C0561 (E0561)	RH side of engine compartment	93
C0562 (E0562)	behind RH footwell trim panel	89
C0564 (E0564)	behind RH footwell trim panel	89
C0565 (E0565)	RH side of luggage compartment	6
C0570 (8-S)	RH front of engine compartment on engine compartment fuse box	73
C0571 (8-N)	RH front of engine compartment on engine compartment fuse box	73
C0572 (8-K)	RH side of engine compartment on engine compartment fuse box	73
C0573 (8-U)	RH front of engine compartment on engine compartment fuse box	72
C0574 (8-Y)	RH front of engine compartment on engine compartment fuse box	72
C0575 (8-P)	RH front of engine compartment on engine compartment fuse box	72
C0576 (8-G)	RH front of engine compartment on engine compartment fuse box	72
C0577 (8-B)	RH side of engine compartment on engine compartment fuse box	136
C0607 (2-W)	centre rear of roof	14
C0608 (4-W)	centre rear of roof	14
C0609 (2-B)	centre rear of roof	14
C0613 (2-W)	centre of tailgate to centre mounted stop lamp	10
C0615 (3-B)	centre of tailgate RH rear of luggage compartment tailgate unlock switch	1
C0616 (2-B)	centre of tailgate on tailgate switch	1
C0617 (2-B)	centre of tailgate on tailgate lock actuator	2
C0620 (2-U)	behind RH side of front bumper near battery to screen wash fluid level switch	127
C0626 (2-S)	lower RH side of engine on right knock sensor	120



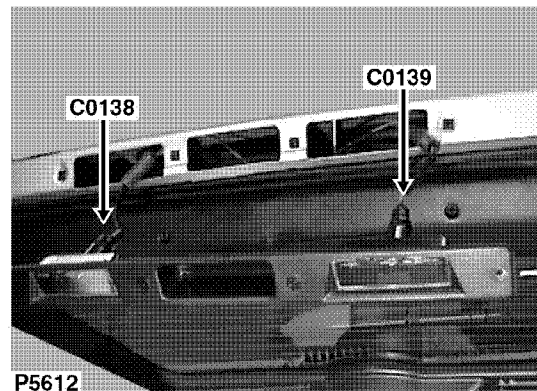
5. RH rear of luggage compartment
 C0690 (2-W)
 C0697 (12-B)
 C0789 (12-B)



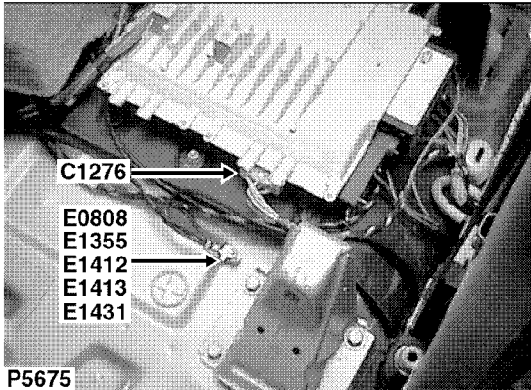
6. RH side of luggage compartment
 E0565
 E0807



7. centre of tailgate
 C0119 (1-B)
 C0120 (1-B)



8. centre of tailgate behind trim panel
 C0138 (2-B)
 C0139 (2-B)



P5675

45. beneath RH front seat

C1276 (10-W)

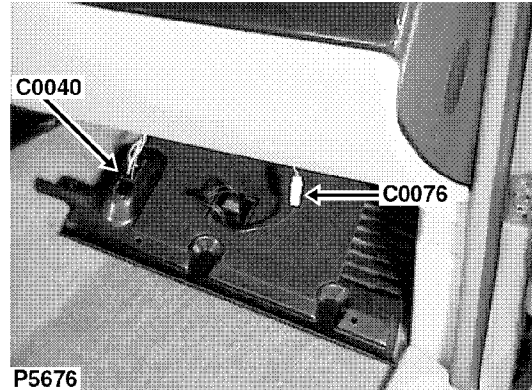
E0808

E1355

E1412

E1413

E1431

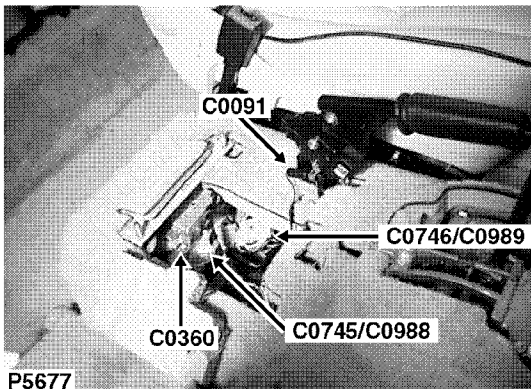


P5676

46. passenger's footwell

C0040 (16-B)

C0076 (2-W)



P5677

47. beneath centre console

C0091 (1-B)

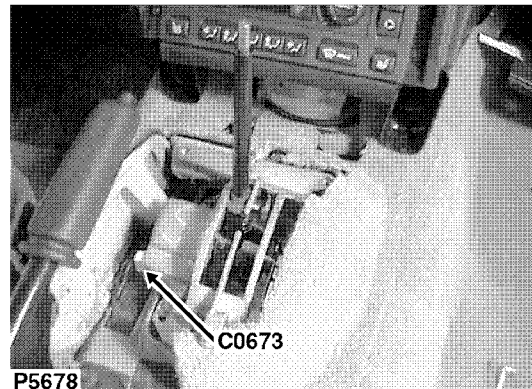
C0745 (18-LS)

C0746 (14-LS)

C0988 (18-LS)

C0989 (14-LS)

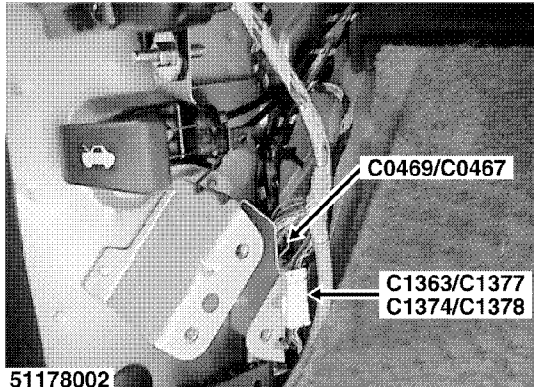
E0360



P5678

48. beneath centre console

C0673 (6-W)



51178002

85. behind LH footwell trim panel

C0467 (14-W)

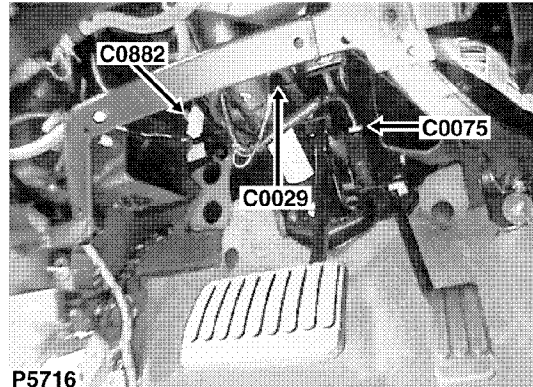
C0469 (14-W)

C1363 (8-W) (MY 1999)

C1374 (12-W) (MY 2000)

C1377 (8-W) (MY 1999)

C1378 (12-W) (MY 2000)



P5716

86. behind driver's side of fascia LHD

C0029 (2-W)

C0075 (3-Y)

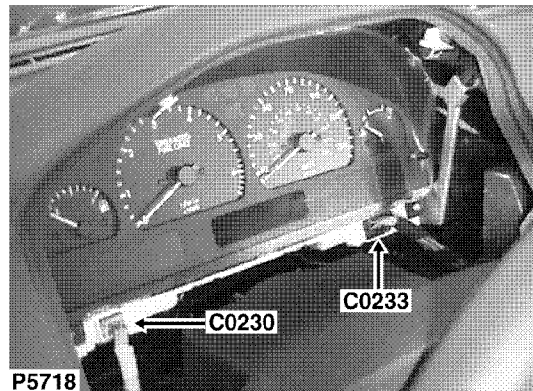
C0882 (3-W)



P5717

87. left of steering column

C0748 (5-B)

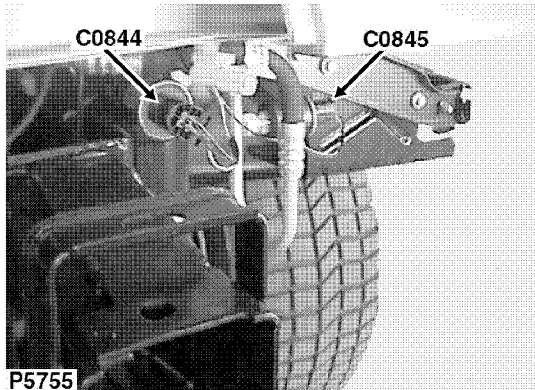


P5718

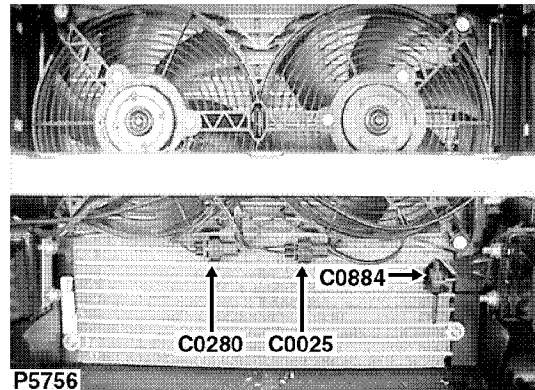
88. behind driver's side of fascia

C0230 (5-LU)

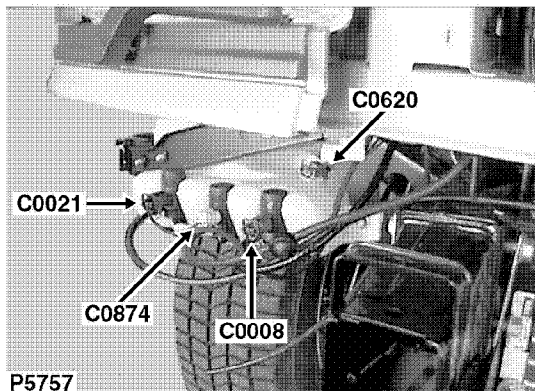
C0233 (20-B)



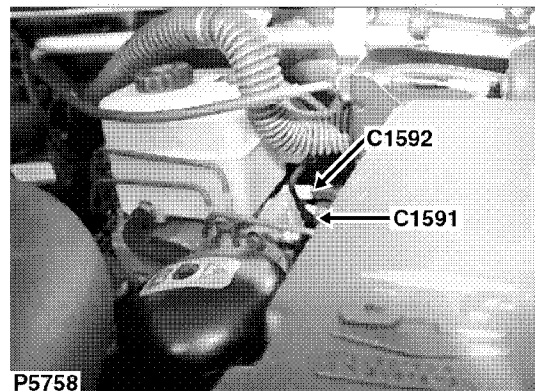
125. behind LH side of front bumper
 C0844 (4-B)
 C0845 (2-B)



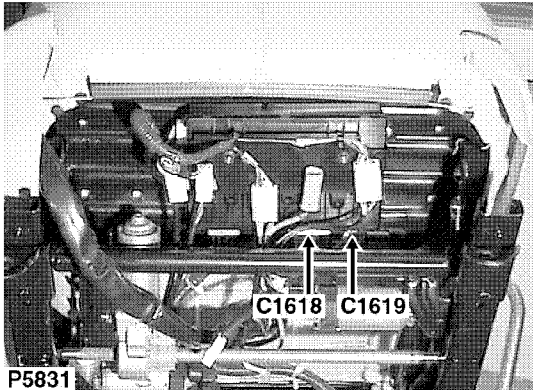
126. behind LH side of front bumper
 C0025 (2-B)
 C0280 (2-B)
 C0884 (2-B)



127. behind RH side of front bumper
 C0008 (2-R)
 C0021 (2-B)
 C0620 (2-U)
 C0874 (2-W)



128. driver's side of engine compartment
 C1591 (13-B)
 C1592 (1-W)

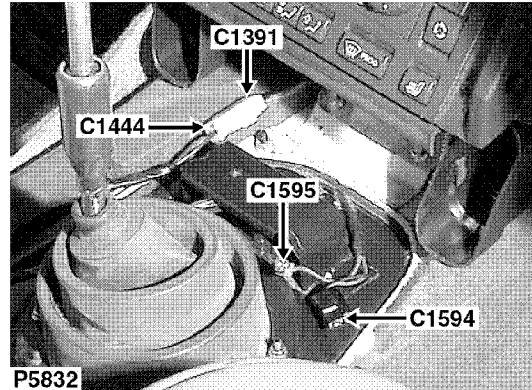


P5831

165. underside of respective front seat

C1618

C1619



P5832

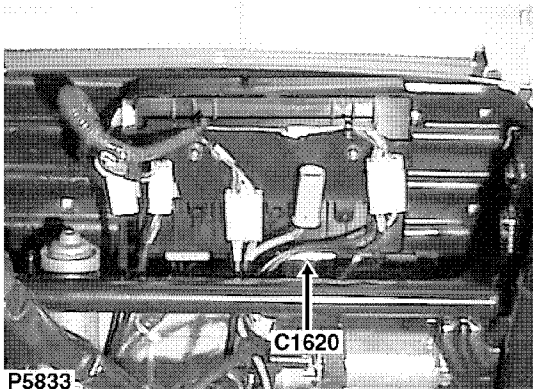
166. beneath centre console

C1391 (4-W)

C1444 (4-W)

C1594 (2-B)

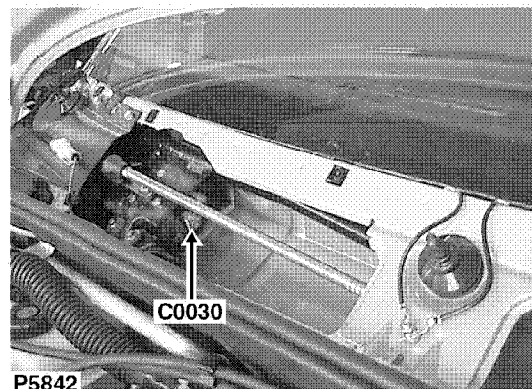
C1595 (1-W)



P5833

167. underside of respective front seat

C1620

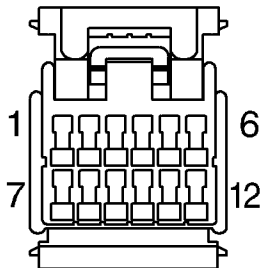



P5842

168. lower RH side of windscreen

C0030 (2-B)

C0036

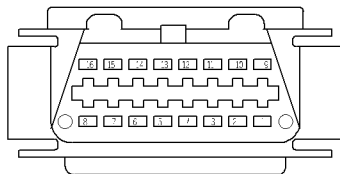



(12 - B) 

1	UW	5	RB	9	
2	US	6	RLG	10	
3	SP	7	GW	11	
4	SU	8	B	12	GR

CA3C0036

C0040

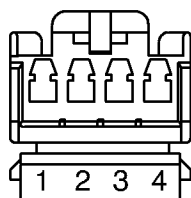



(16 - S) 

1	SR	7	KR	13	YK
2		8		13	
3		9		14	KW
4	B	10		14	YG
5	BP	11	WLG	15	LGR
6		12	WK	16	N

CA3C0040

C0041

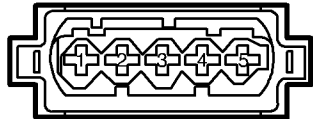



(4 - W) 

1	OR	3	B
2	RW	4	U

CA3C0041

C0149

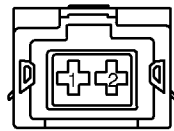



(5 - B) 

1	SLG
2	NK
3	RB
4	R
5	UG

CA3C0149

C0152

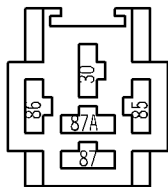


(2 - B) 

1	NR
2	NK

CA3C00C152

C0154L

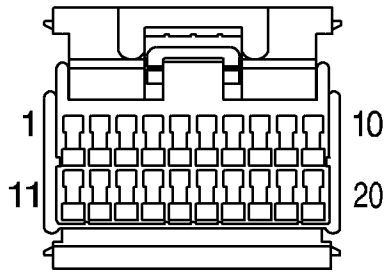



(5 - B) 

1	WO, WO
2	BY
3	WO
4	W
5	

CA3C0154L

C0233

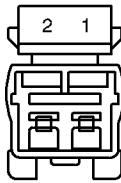



(20 - B) 

1	SU	6	RW	11	SP	16	S
2	RG	7	B	12	RG	17	B
3	OG	8	BG	13	OG	18	BG
4	P	9	Y	14	P	19	GU
5	LG	10	BK	15	LG	20	O

CA3C0233

C0238

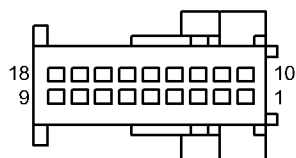



(2 - W) 

1	R
2	B

CA3C0238

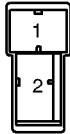

C0239



(18 - B) 

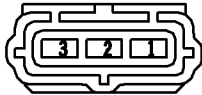

1	OR	7	OR	13	
2	RY	8	OW	14	
3		9		15	Y
4	SY	10		16	KR
5	GP	11	OU	17	OK
6		12		18	B

CA3C0239

C0369R(2 - B) 

1	BW
1	YB
1	YW
2	WB
2	Y
2	WY

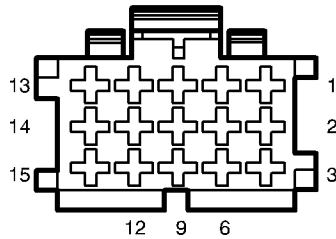
CA3C369R


C0388(3 - B) 

1	B
2	OB
3	OP

CA3C0388

C0506

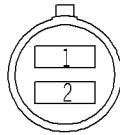



(15 - B) 

1	SN	5	SR	9		13	SB
2	SK	6		10	SP	14	SO
3	B	7	SG	11	LG	15	SY
4	SU	8	S	12	SW		

CA3C0506

C0507

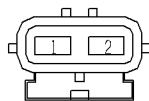



(2 - W) 

1	NR
2	B

CA3C0507

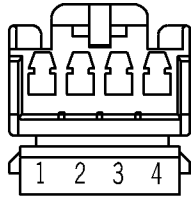
C0513



(2 - W) 

1	RY
2	B

CA3C0513

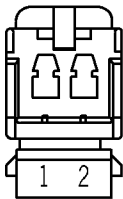
C0607

(4 - W)



1	OB	3	GU
2	OP	4	RU, RU

CA3C0607

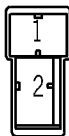
C0608

(2 - W)



1	PR
2	P

CA3C0608

C0609

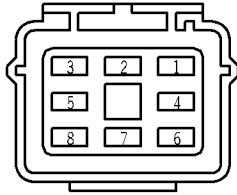
(2 - B)



1	B
2	PLG

CA3C0609

C0683

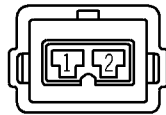



(8 - B) 

1	KB	5	BG
2	KN	6	
3	KU	7	RP
4	KR	8	RS

CA3C0683

C0684

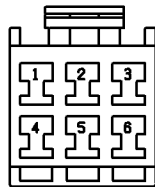



(2 - B) 

1	N
2	B

CA3C0684

C0685

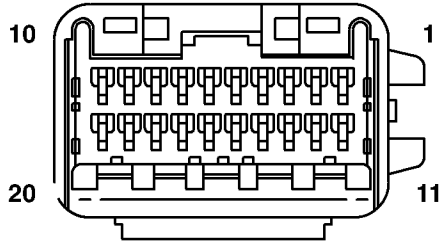



(6 - N) 

1	B, B	4	
2	PG	5	GP
3	RU	6	B

CA3C0685

C0797

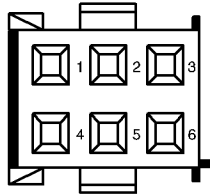



(20 - B) 

1	6	KR	11	O	16	
2	7	LGR	12		17	WB
3	8	NY	13		18	
4	9		14		19	BR
5	10		15		20	BP

CA3C0797

C0820

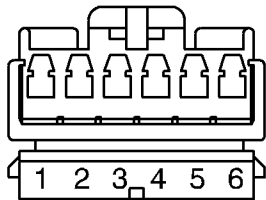



(6 - B) 

1	RW	4	P
2	B	5	WK
3	WR	6	

CA3C0820

C0834

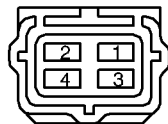



(6 - W) 

1	OB	3	SB
1	O	4	P
2	O	5	B
2	OB	6	P

CA3C0834

C0844

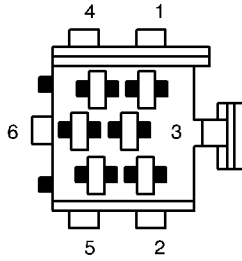


(4 - B) 

1	GW	3	BU
1	BY	4	B
2	WLG		

CA3C0844

C0921

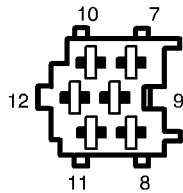


(6 -)

1	O	3	
2	B	4	OB
2	P	5	Y
		6	

C0922

CA2C0921

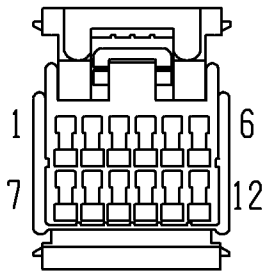


(12 - G)

1		5		9	
2		6		10	KB
3		7		11	
4		8		12	

C0923

CA3C0922

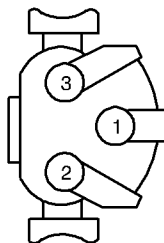


(12 - B)

1	O	5		9	WB
2	KR	6		10	
3	LGR	7		11	BP
4	NY	8		12	BR

C0925

CA2C0923

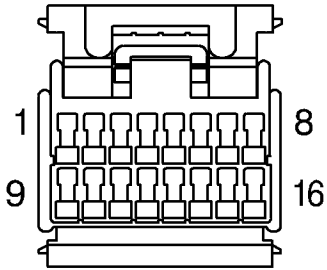



(3 - B)

1	R
2	B
3	RW

CA2C0925

C1286

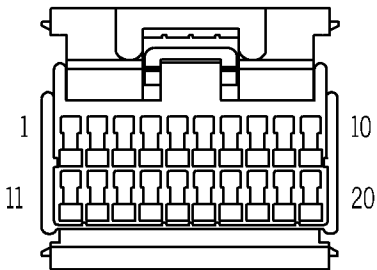


(16 - B) 

1	LG	5	BG	9	OG	13	
2	YB	6	YK	10	R	14	BK
3	YU	7	BO	11	Y	15	RY
4	PW	8	PO	12		16	YR

CA3C1286

C1287

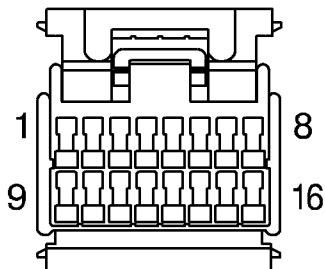



(20 - B) 

1	LG	11	S
2	OG	12	KR
3	NY	13	R
4	NW	14	LG
5	YR	15	GP
6	GB	16	YG
7	NR	17	BK
8	UB	18	UG
8	GN	18	N
9	UP	19	WB
10		20	UN

CA3C1287

C1288

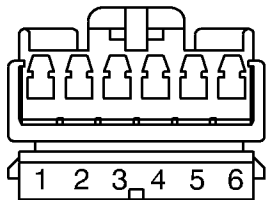



(16 - G) 

1		5	B	9	S	13	Y
2	BK	6		10	BS	14	BY
3	PO	7		11	BW	15	
4	BP	8	WLG	12		16	GB

CA3C1288

C1370

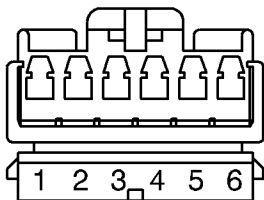



(6 - S) 

1	YR	4	K
2	RN	5	O
3	YB	6	OK

CA3C1370

C1371

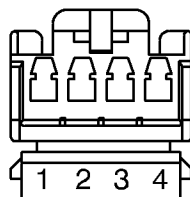



(6 - Y) 

1	S	5	WR
2	SO	5	SB
3	B	6	RW
4	RP	6	P

CA3C1371

C1372

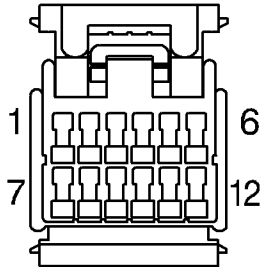



(4 - W) 

1	B	3	PB
2	PU	4	B

CA3C1372

C1407L

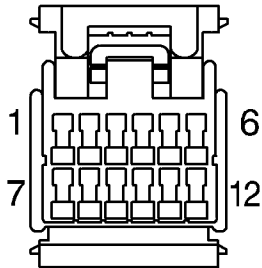



(12 - B) 

1	Y	5	BR	9	
2	R	6	O	10	W
3	G	7	S	11	P
4		8	U	12	B

CA3C1407L

C1407R

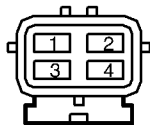


(12 - B) 

1	Y	5	BR	9	
2	R	6	O	10	W
3	G	7	S	11	P
4		8	U	12	B

CA3C1407R

C1415

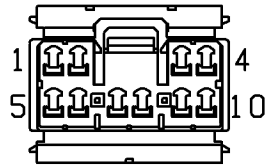



(4 - B) 

1	Y
2	U
3	W
4	G

CA3C1415

C1570

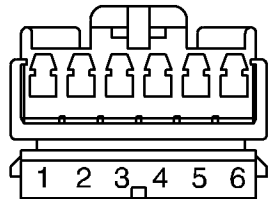



(10 - W) 

1	R	6	GN
2	RB	7	Y
3	U	8	
4	UB	9	UB
5	SB	10	LG

CA3C1570

C1571

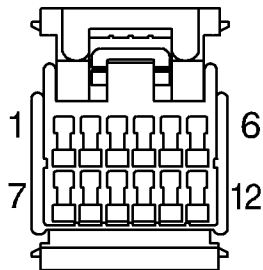



(6 - W) 

1	R	4	UB
2	RB	5	SB
3	U	6	

CA3C1571

C1576

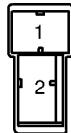



(12 - G) 

1	O	5		9	WB
2	KR	6		10	
3	LGR	7		11	BP
4	NY	8		12	BR

CA3C1576

C1577L

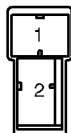



(2 - B) 

1	BW
2	WB

CA3C1577L

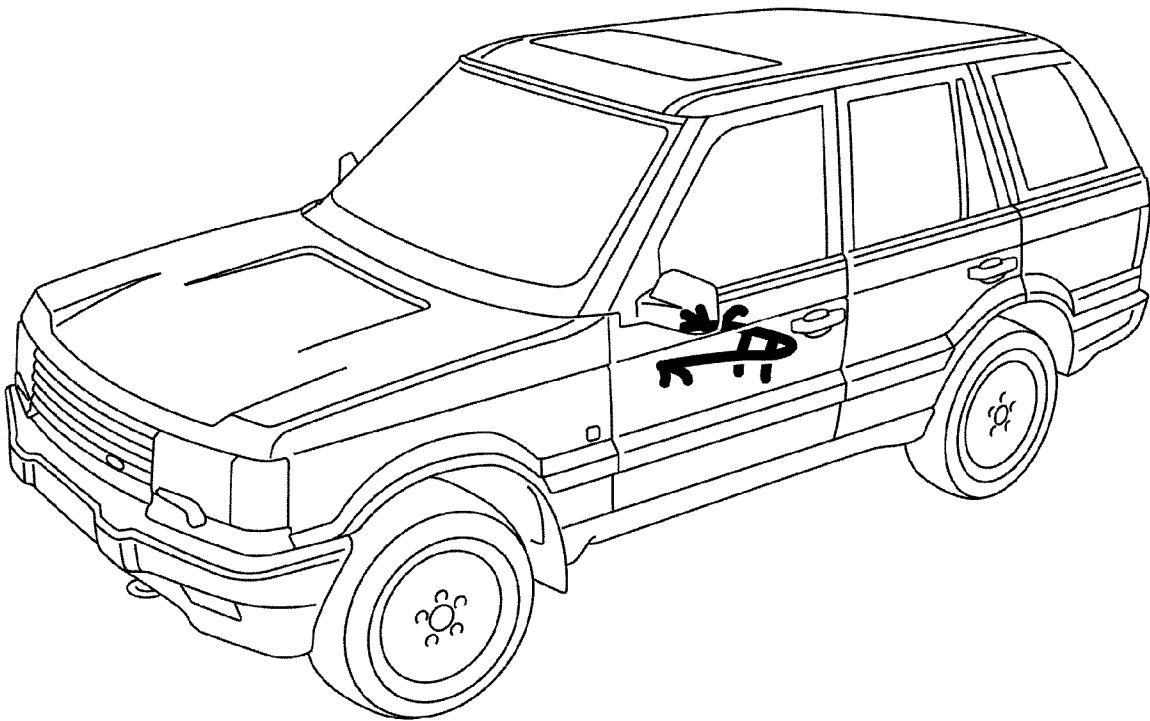
C1577R



(2 - B) 

1	BW
2	WB

CA3C1577R



Manual Transmission Harness

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