



Bantam

WORKSHOP REPAIR MANUAL

ELECTRICAL MANUALS INDEX

BANTAM E.W.D PETROL

BANTAM E.W.D DIESEL ENGINE



2002 Bantam Wiring Diagrams Petrol Engine

FOREWORD

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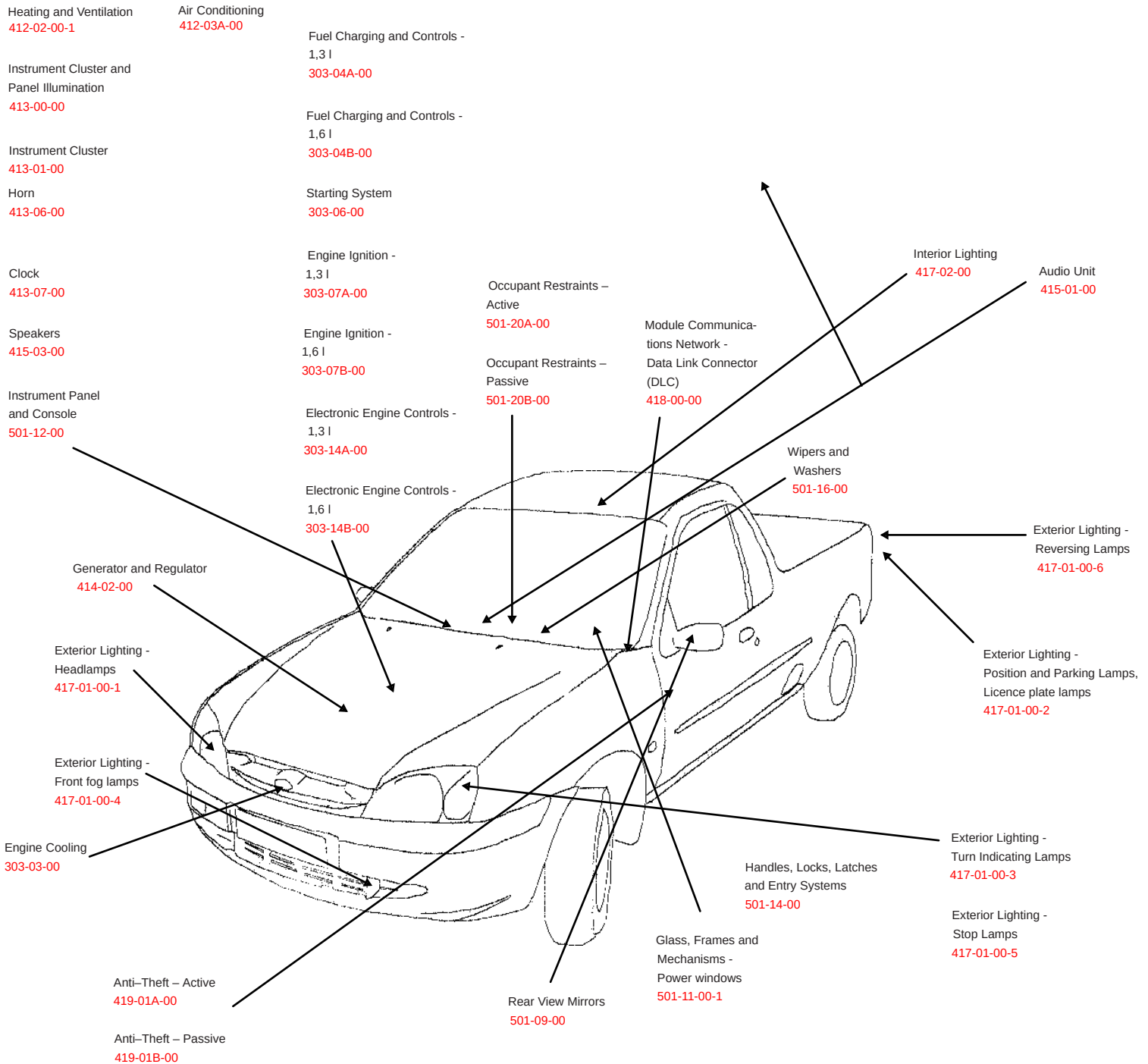
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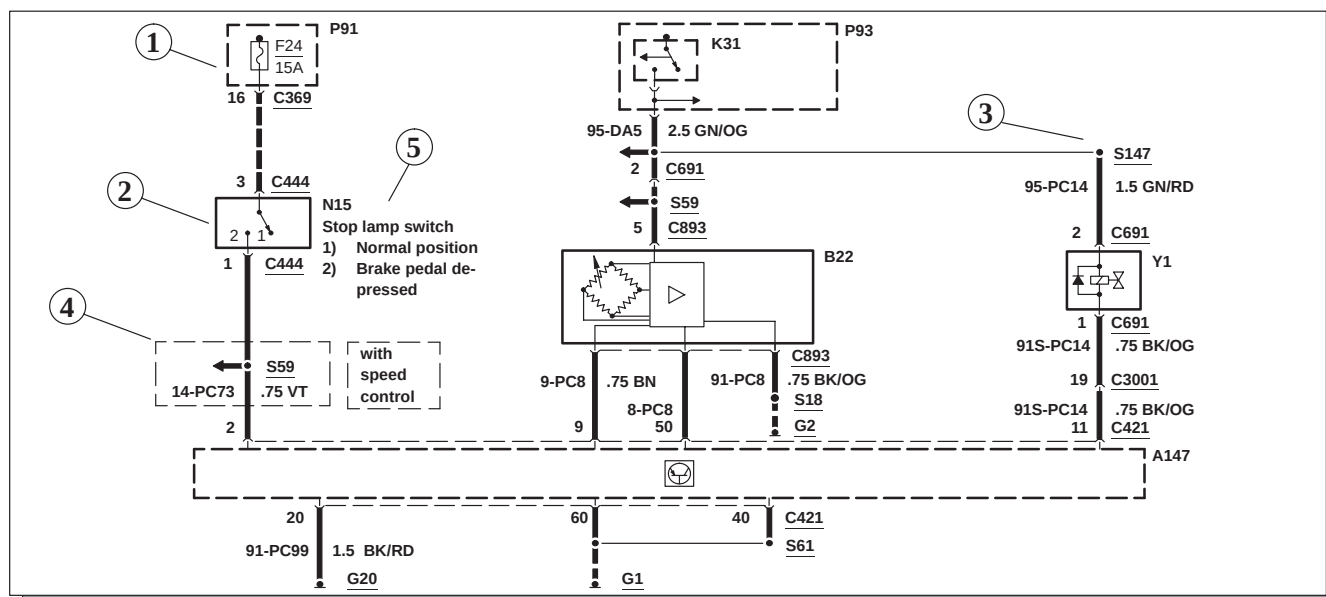
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Note**-1**

All wiring connections between components are shown exactly as they exist in the vehicles. It is important to realise, however, that no attempt has been made on the schematic to represent components and wiring as they physically appear on the vehicle. For example, a 4-foot length of wire is treated no differently in a schematic from one which is only a few inches long. Furthermore, to aid in understanding electrical (electronic) operation, wiring inside complicated components has been simplified.

**Complete Circuit Operation**

Each circuit is shown completely and independently in one chapter or “cell”. Other components which are connected to the circuit may not be shown unless they influence the circuit operation.

Current Flow (1)

Each cell normally starts with the component that powers the circuit such as a fuse or the ignition switch. Current flow is shown from the power source at the top of the page to ground at the bottom of the page.

Switch Positions (2)

Within the schematic, all switches, sensors and relays are shown “at rest” (as if the ignition switch were OFF).

Splices (3)

An arrow indicates that the splice is not shown completely. The page where the splices appears in full is listed in the Index.

Boxes (4)

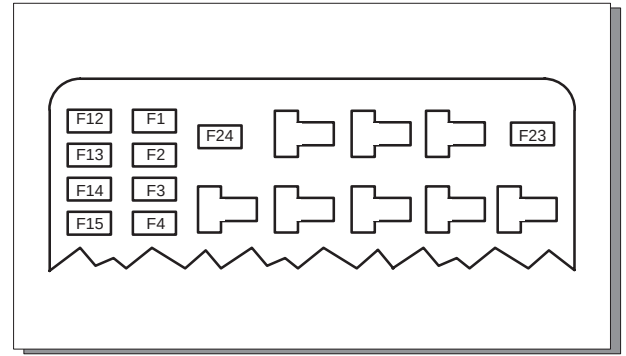
A thin dashed box on a schematic indicates a part of the circuit which is only present for a particular vehicle model, country, or option. These qualifiers will be shown next to the box on the schematic.

Component Names and Notes (5)

Component names are placed on the right hand side of each component. Any notes that describe switch positions or operating conditions follow the name. Descriptions of the internals of the component (e.g. “Speed sensor”) are also included here.

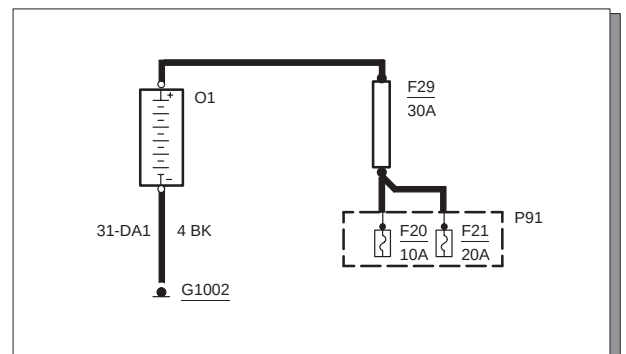
Fuse and Relay Information

The "Fuse and Relay Information" cell (700-01-00) contains a view of the Fuse-/Relay Box in which all fuses and relays are identified. Cell 700-01-00 also specifies in table format which circuits/systems are protected by each fuse.



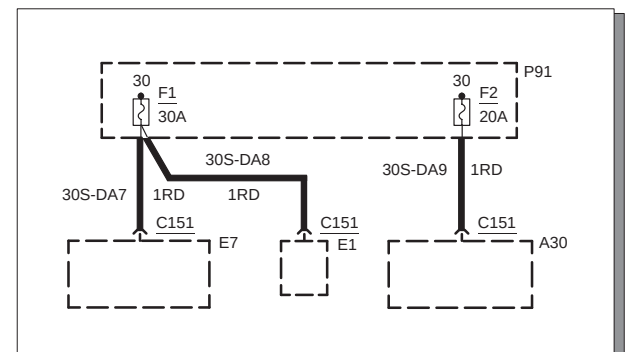
Power Distribution

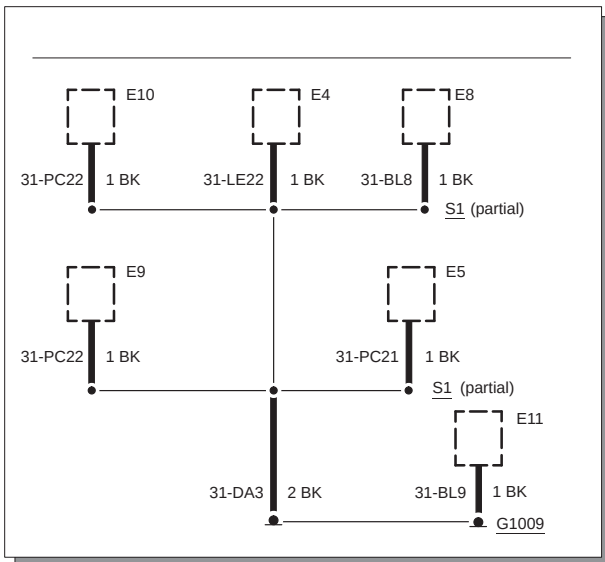
The "Power Distribution" cell (700-02-00) shows the current feed circuit. The current path is shown from the battery to the ignition switch and to all fuses.



Fuse Details

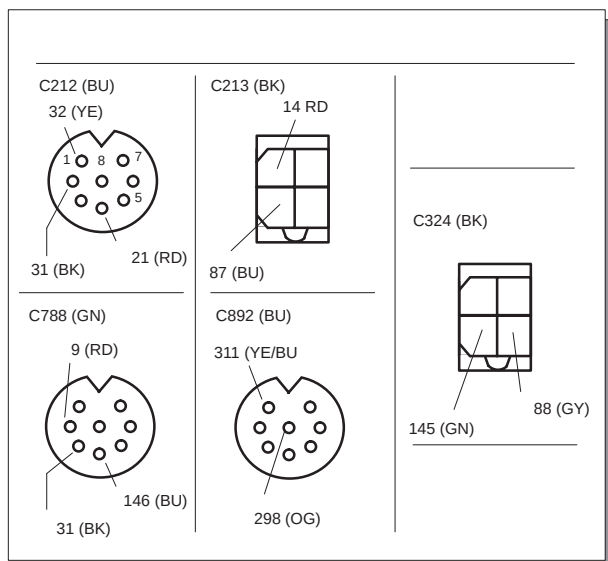
The "Fuse Details" cell (700-03-00) shows the circuits protected by each fuse. The circuit is traced from the fuse to the component. All details (wires, splices, connectors) between the fuse and the first component are shown.



Ground Distribution**-3**

Cell 700-04-00 contains the schematics that show the complete details for each ground connection or main ground splice. This is useful in diagnosing a problem affecting several components at once (poor ground connection or ground splice). All Details (wires, splices, connectors) between the ground point and the components are shown. These ground connection details are shown here in order to keep the individual cell schematics as uncluttered as possible.

Splices with a large number of wires may be split in order to improve the graphic representation. A thin line is then used to indicate the unity of the split splice.

**Component Identification Information**

Component Identification Information begins in cell 700-06-00 and consists of

- (1) Component Location Chart (List),
- (2) Component Location Views, and
- (3) Connector Views (Faces).

The **Component Location Chart** helps the user find where the various items depicted on the schematic can physically be found on the vehicle. A brief written description of the location is given, along with a reference to the component location views.

The **Component Location Views** show the components and their connecting wires as they can be found on the vehicle.

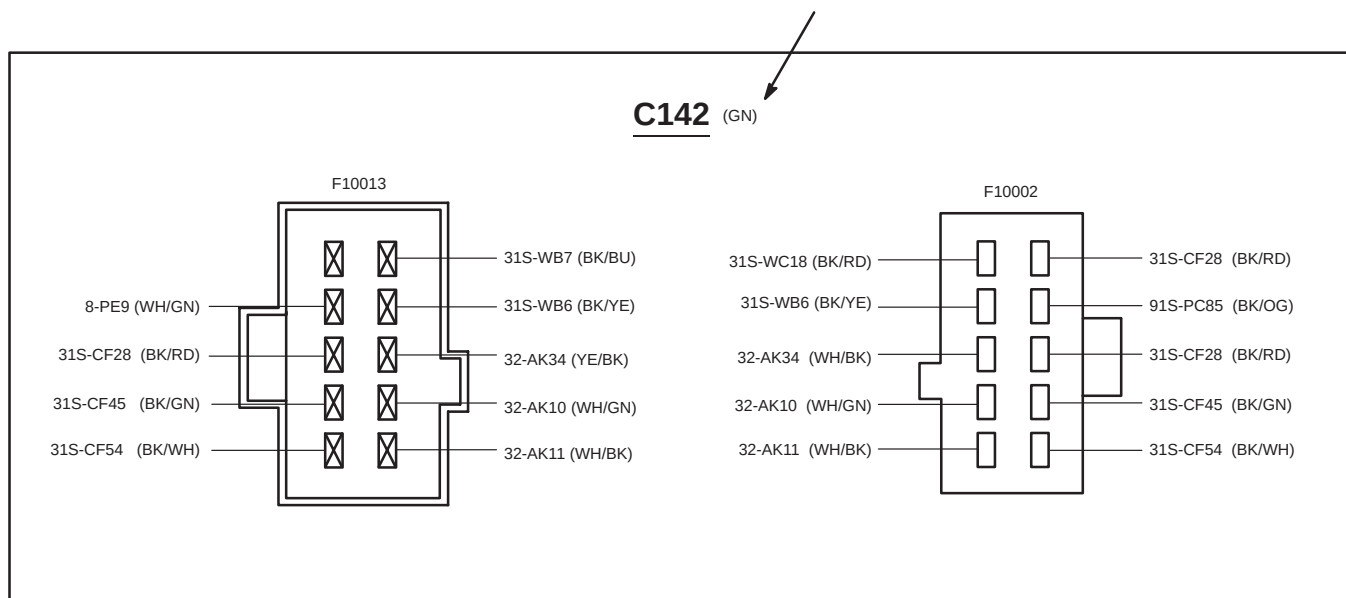
The **Connector Views** show the cavity or pin locations of all connectors. They are shown as they would appear to a user probing the wires with the connector disconnected.

Note:

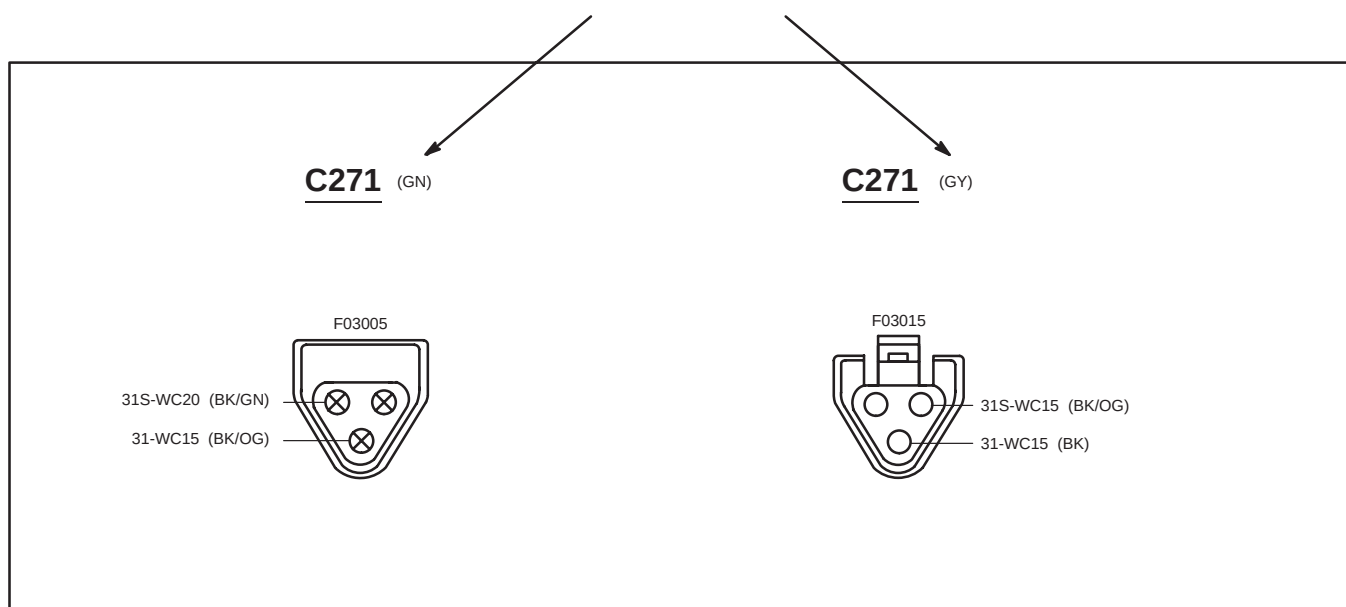
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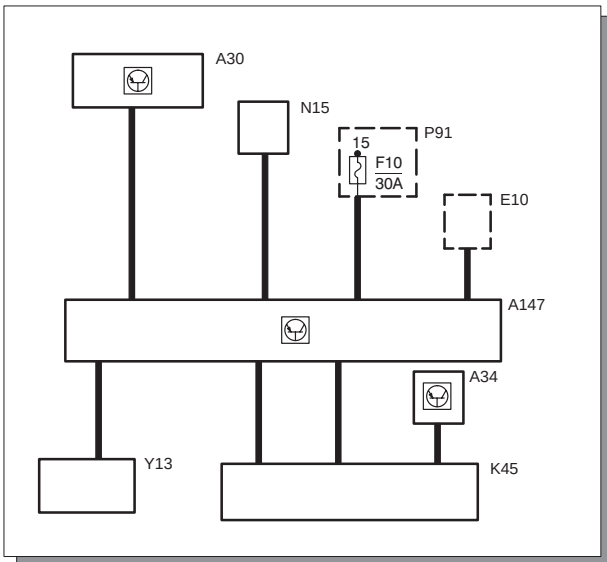
Connector colours are portrayed in the following manner:

when both sides of the connector have the same colour



when the male and female sides of the connector have different colours





Block Diagrams

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Block diagrams can be found at the beginning of some cells. These diagrams provide an overview of the systems detailed on the pages that follow them. All components connected to the control module are shown in order to provide easy understanding of the system component interactions.

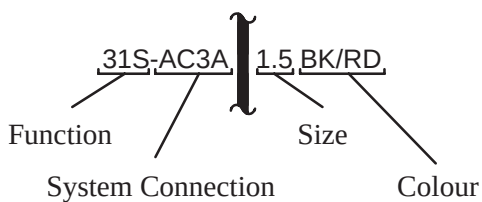
Circuit Numbering and Wire Identification

Circuit Numbering:

Ford has introduced a world-wide uniform system for circuit numbering and wire identification. The system is called Function - System Connection, or FSC for short.

FSC was developed mainly to assist in vehicle development and production processes, but is also helpful in helping the technician troubleshoot electrical circuits.

Example:



Function:

The first two digits identify the function of the wire. In this case, the function code includes the letter "S" to indicate it is an additionally switched function. The function part of the circuit number is the most helpful to the technician in troubleshooting a circuit. The function codes are based on some DIN designations used previously, with new numbers added for overload-protected functions, sensor functions, data links and special electronic module functions. A complete list of function codes and their descriptions is included in cell 100-00-04 "Symbols".

System Connection (including branch):

Systems are related to subsets of the vehicle circuitry. A complete list of the system codes can be found in cell 100-00-04 "Symbols".

Immediately following the system letter code is the connection number specific to that system. A branch identification is used to differentiate wires in one connection with the same function.

Wire Identification (wire colours):**-6**

The wire identification consists of a basic colour and an identification colour, and is determined directly from the wire's circuit number. In the wiring diagrams the wire colours will be located separately next to the wires as before.

The basic and identification colours are abbreviated using the international norm IEC 757. The abbreviations are listed in cell 100-00-04 "Symbols".

Each function code has a specific basic colour associated with it which can also be seen in the chart of function codes in cell 100-00-04 "Symbols". The identification colour is a coloured stripe used to differentiate several wires with the same function within one component connector.

One essential difference from the previous wire colouring system is the change of some of the basic wire colours. Ground circuits, previously assigned the basic colour brown (BN) are now black (BK).

Using the circuit number and wire identification used in the above example we know the following information about the wire.

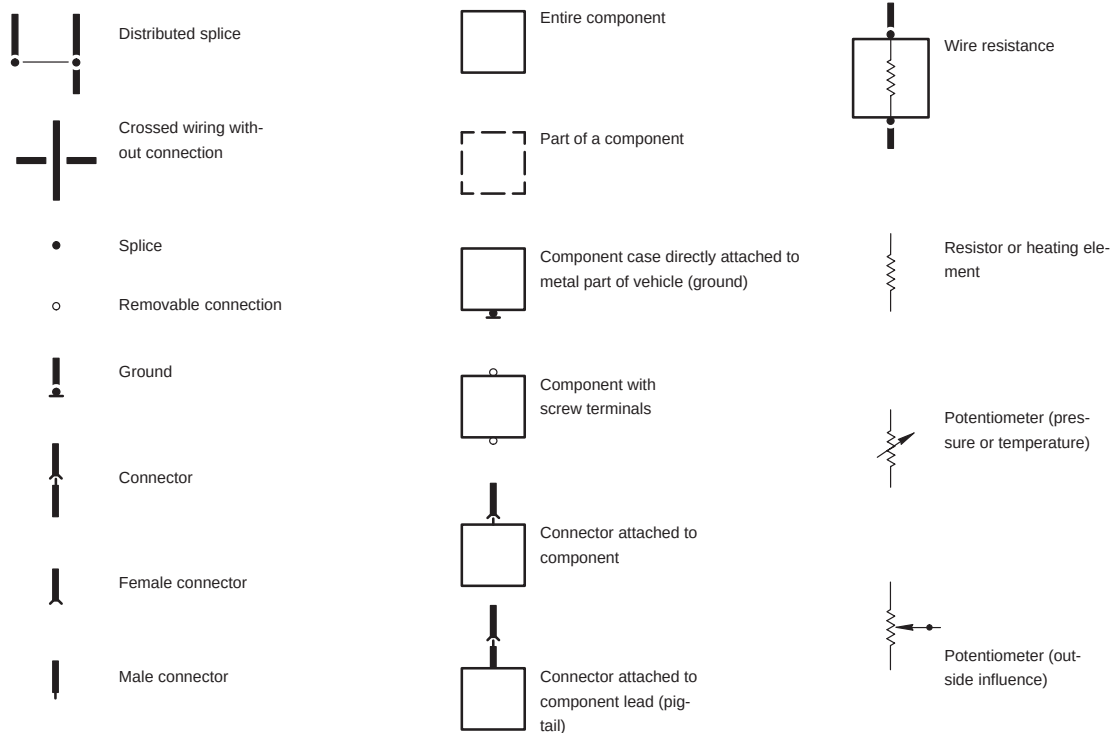
31S-AC3A } 1.5 BK/RD

Function:	31 = Ground S = Additionally switched circuit
System:	AC = Headlamp levelling
Connection:	3 = Switch connection A = Branch
Size:	1.5 = 1.5 mm ²
Colour:	BK = Basic colour black (determined by function 31) RD = Identification colour red (red stripe)

Symbols

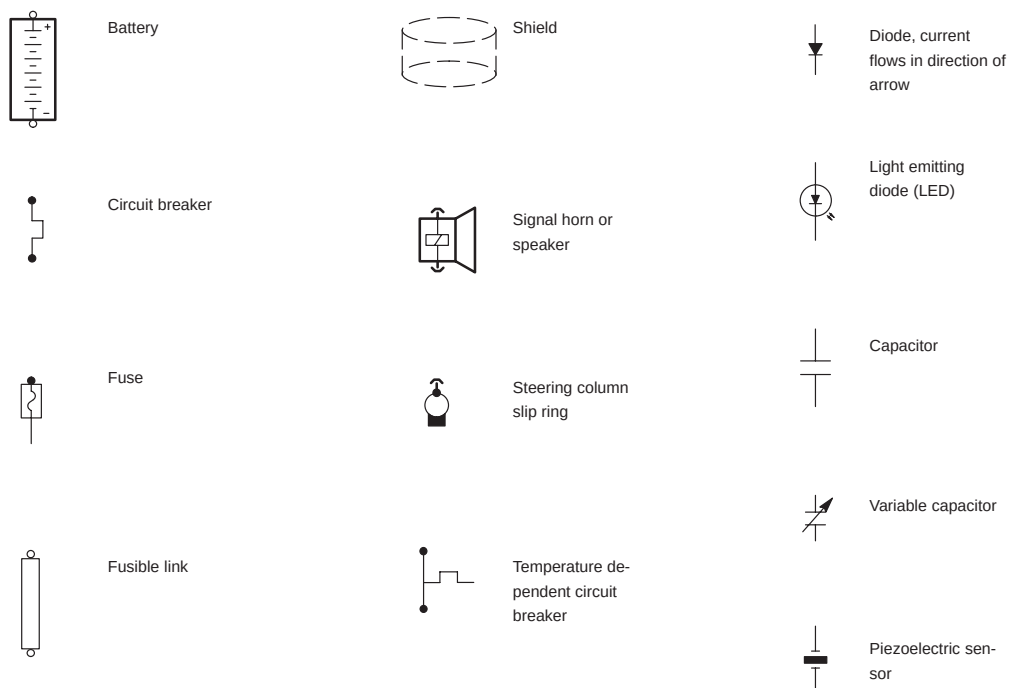
100-00-04

-1



'02 BANTAM E.W.D PETROL

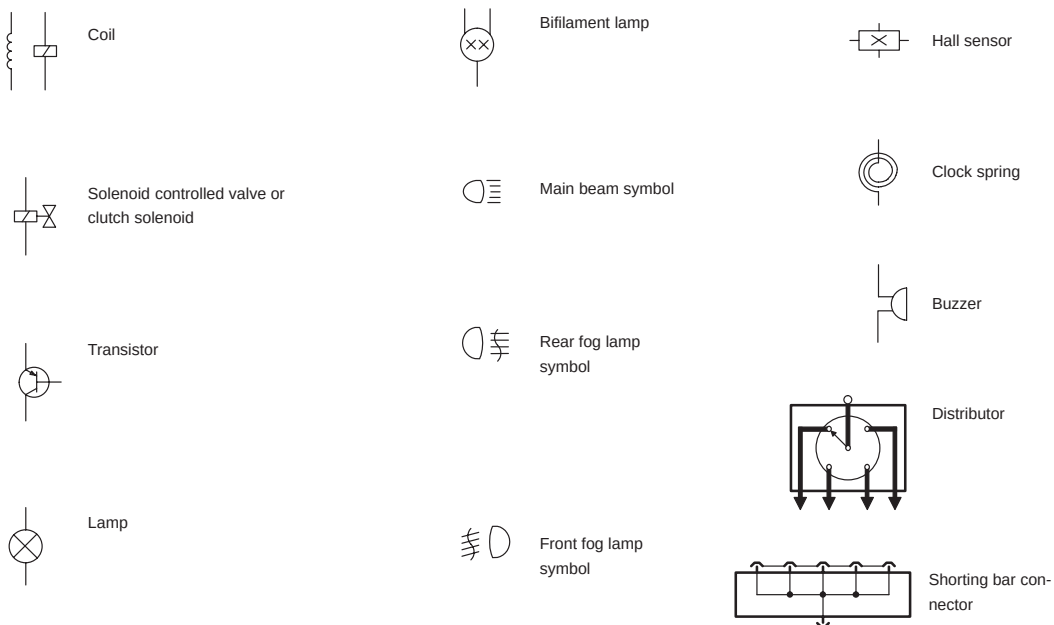
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Symbols

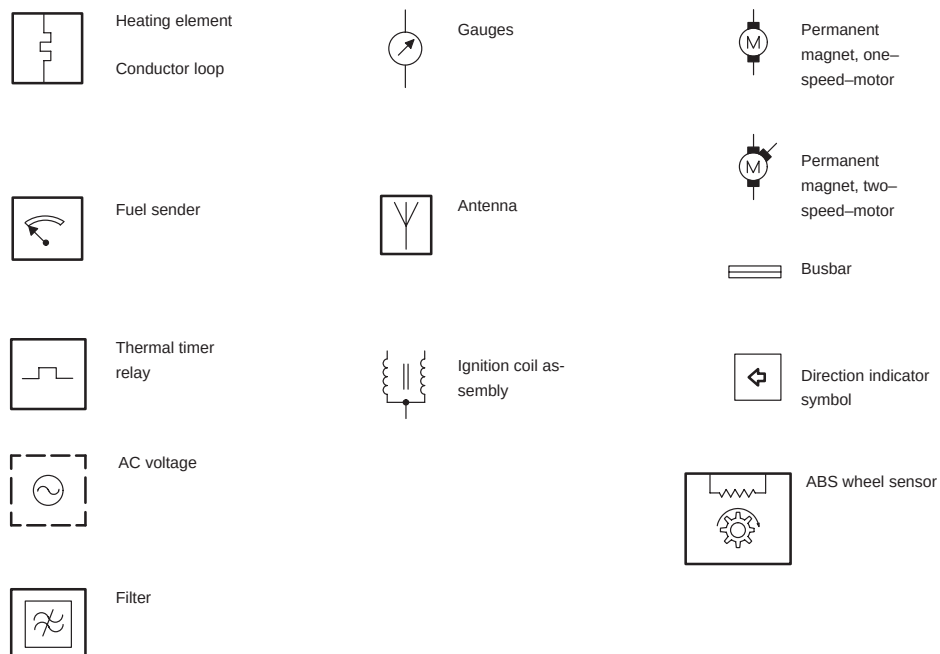
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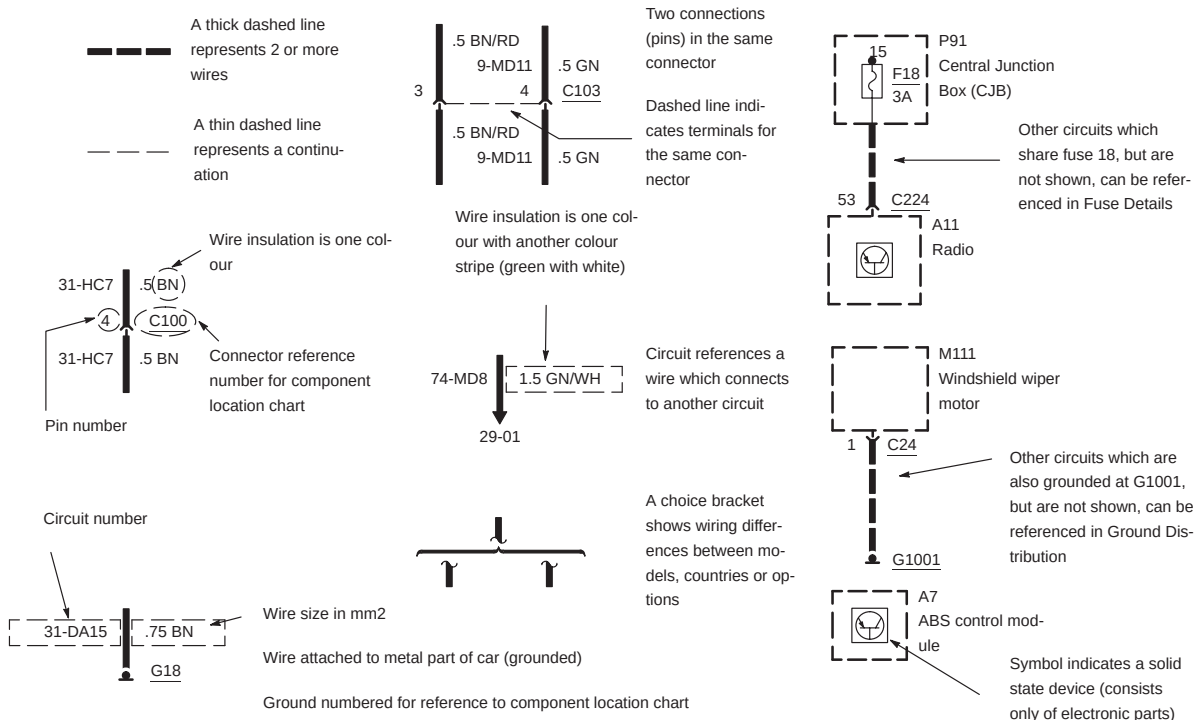
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Symbols

100-00-04

-5



'02 BANTAM E.W.D PETROL

-6

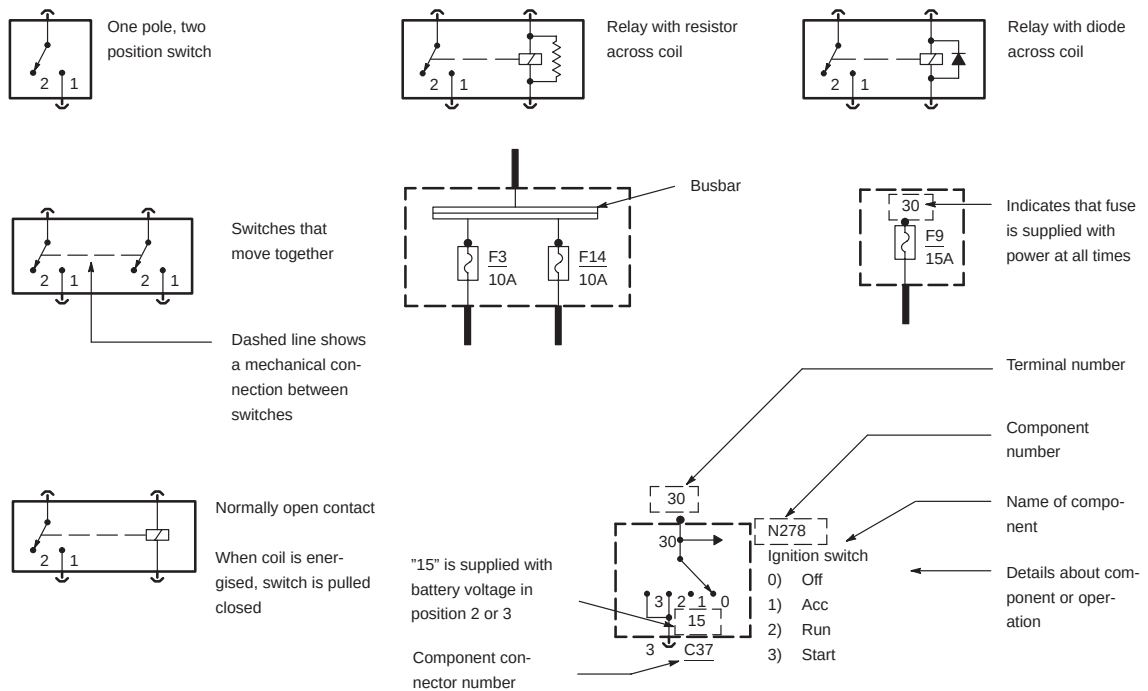
LHD	Left-hand-drive vehicles	I	Italy
RHD	Right-hand-drive vehicles	IS	Iceland
Country codes		N	Norway
A	Austria	NL	Netherlands
B	Belgium	P	Portugal
CH	Switzerland	PL	Poland
CZ	Czech Republic	S	Sweden
D	Germany		
DK	Denmark		
E	Spain		
F	France		
FIN	Finland		
GR	Greece		
H	Hungary		

Wire colours	
BK	Black
BN	Brown
BU	Blue
DG	Dark green
GN	Green
GY	Grey
LG	Light green
NA	Natural
OG	Orange
RD	Red
SR	Silver
VT	Violet
WH	White
YE	Yellow

Symbols

100-00-04

-7

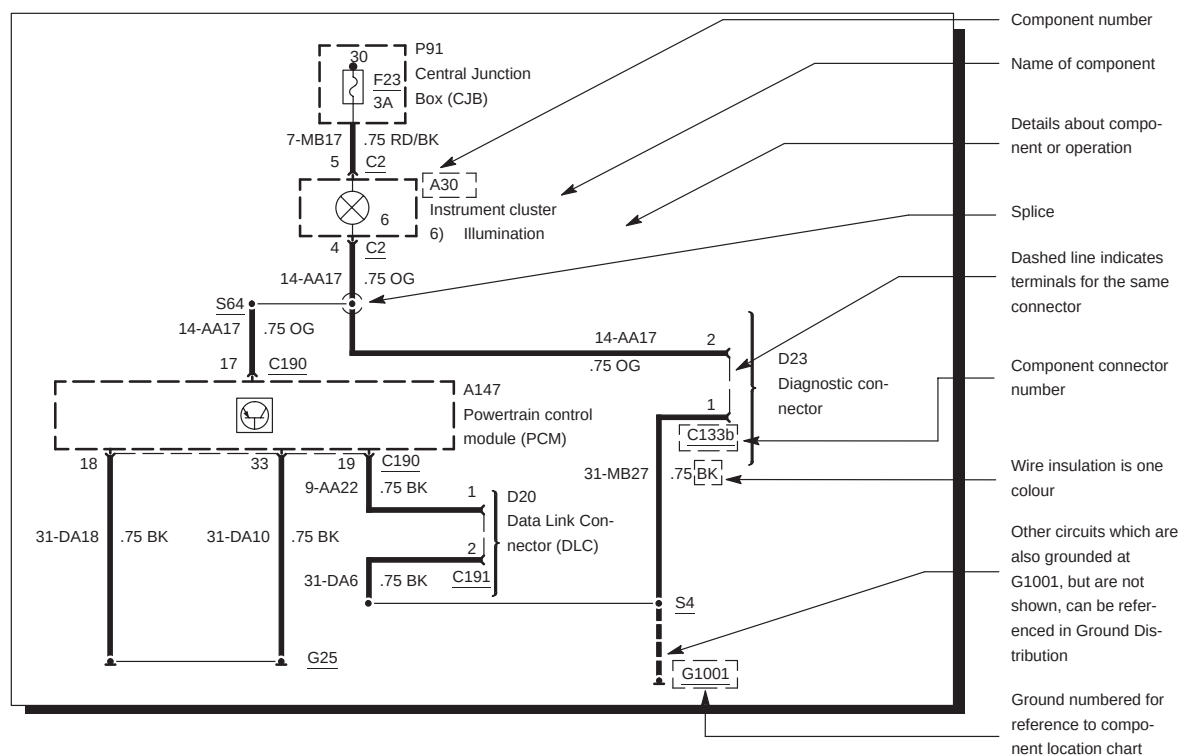
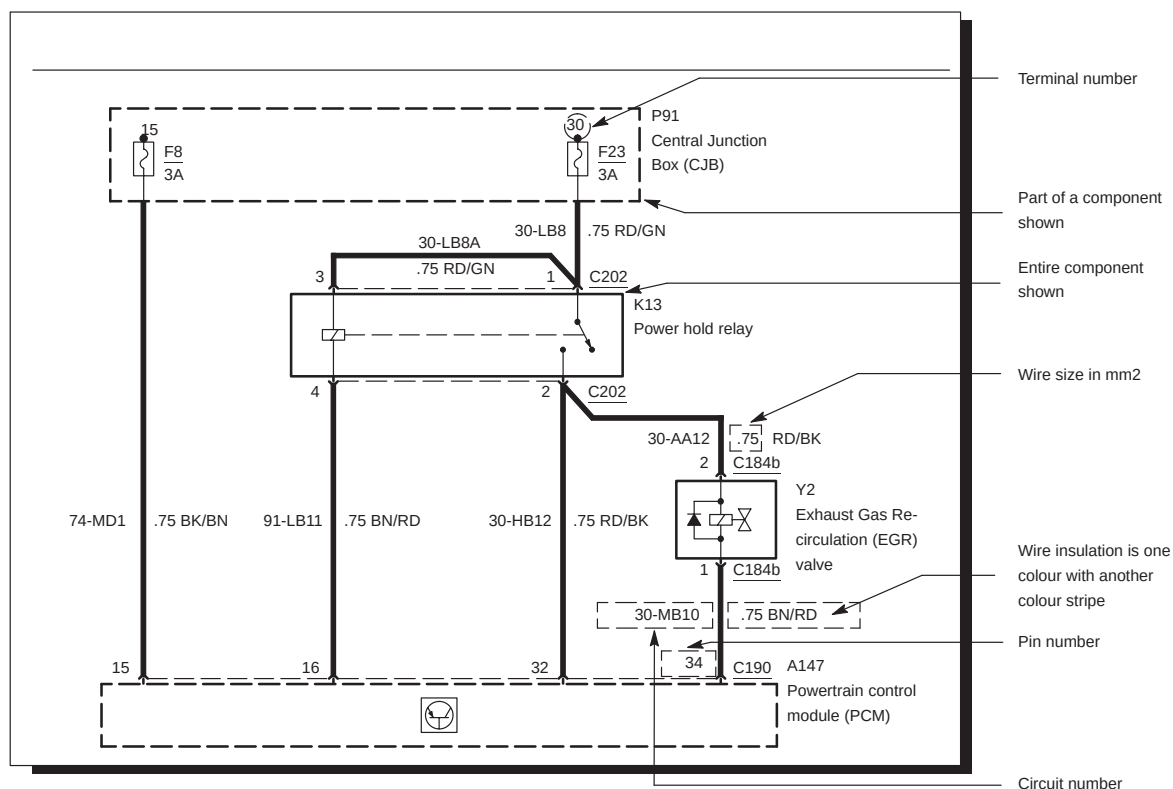


'02 BANTAM E.W.D PETROL

-8

Number	Description	Basic colour
1	Audio signal positive	WH
2	Audio signal negative	GY
3	Audio signal reference (return/shield)	BN
4	Data link, bus positive	GY
5	Datalink, bus negative	BU
6	Data link, bus shield	NO
7	Constant DC voltage, other than battery	YE
8	Sensor signal (X-direction, forward, upward)	WH
9	Sensor signal return (reference/ground)	BN
10	Sensor signal (Y-direction, reverse, downward)	GY
15	Battery voltage, hot in Start and Run only	GN
20	Battery voltage, hot in Run only	PK
29	Battery voltage, hot at all times (secondary fused)	OG
30	Battery voltage, hot at all times (not fused and primary fused)	RD
31	Ground	BK
32	Switched between: Battery voltage, Ground or Open Circuit (Plus for: front down, open, mirror leftward, unlock, on)	WH

Number	Description	Basic colour
33	Switched between: Battery voltage, Ground or Open Circuit (Plus for: front up, close, mirror rightward, lock, off)	YE
34	Switched between: Battery voltage, Ground or Open Circuit (Plus for: rear up, mirror upward, forward or module settings)	BU
35	Switched between: Battery voltage, Ground or Open Circuit (Plus for: rear down, mirror downward, reverse or inductor output voltage)	VT
48	Drain wire	NO
49	Pulsed power feed	BU
50	Battery voltage, hot in Start only	GY
59	AC Power	GY
64	DC voltage, hot only if engine runs	BU
75	Battery voltage, hot in Run and Accessory only	YE
91	Ground	BK



Symbols

100-00-04

System Codes

-11

Distribution Systems

DA:	Splices distribution
DB:	Busbars
DC:	Circuit protection – Battery Junction Box (BJB)
DD:	Circuit protection – Central Junction Box (CJB)
DE:	Ground
DF:	Junction block
DG:	Circuit protection – Auxiliary fuse box
DH:	Distribution – Auxiliary fuse box

Actuated Systems (high current)

AA:	Door locks and decklid (including: keyless entry/global closing)
AB:	Four-wheel drive
AC:	Headlamp levelling
AD:	Power mirrors
AE:	Occupant restraint
AF:	Powertrain (including: axle/differential/transmission)
AG:	Power roof
AH:	Power seats
AI:	Power windows
AK:	Wiper/washer

Basic Systems

BA:	Charge (including: ammeter/voltmeter)
BB:	Start

Control Systems

CA:	Climate 1
CB:	Climate 2
CC:	Ride suspension

CD:	Self-levelling suspension
CE:	Power steering (variable automatic power assist)
CF:	Traction (including: anti-lock/brakes)

Gauge Systems

GA:	Level / Pressure
GB:	Miscellaneous (including: speedometer/clock)
GC:	Pressure
GD:	Temperature

Heated Systems

HA:	Auxiliary (including: air/filter/lighter)
HB:	De-ice (including: ejectors/mirrors/washer jets/windows)
HC:	Heated seats

Occupant Restraint Systems

JA:	Air Bags
-----	----------

Lighting Systems

LA:	Control and instrument
LB:	Courtesy (glove box/hood/luggage comp./map/recharg. flashlight/vanity)
LC:	Entry (including: dome/floor/door)
LD:	Fog/flood/driving
LE:	Head (including: concealed/dim-dip/daytime running)
LF:	Parking/marker/licence/clearance
LG:	Direction indicator/cornering/hazard/stop/reverse

Miscellaneous Systems

MA:	Air Bags
MB:	Anti-theft
MC:	Communication
MD:	Entertainment
ME:	Horn
MF:	Police
MG:	Unique special vehicle (taxi/police/ambulance)
MH:	Trip computer

Powertrain Control Systems

PA:	Engine control (common and extra carburated)
PB:	Engine control (extra fuel injected 2)
PC:	Engine control (extra fuel injected 1)
PD:	Engine control (extra diesel electronic)
PE:	Engine control (common diesel)
PF:	Transmission control
PG:	Vehicle speed and engine RPM

Indicator Systems (stand alone)

WA:	Audio warning (including: buzzers/chimes)
WB:	Level
WC:	Auxiliary warning/bulb outage
WD:	Pressure / Temperature
WE:	Temperature
XL:	Temporary numbering for future features

Connector Repair Procedures

100-00-05

A large proportion of the plugs in the electrical systems of this vehicle are new generation plugs first introduced on the Fiesta '89 and since then progressively brought into use on other vehicles. These plugs not only provide a very reliable contact, they are also easy to repair.

A wiring loom repair kit is available for such repairs. This allowed individual replacement of single connectors. The repair kit includes the required replacement connectors, the special tools needed for

assembly and an illustration of the most important -1 repair procedures.

Special tools may be ordered from

Grundy South Africa (PTY) Ltd
 Corner Lindsay & Colas Roads
 Korsten Port Elizabeth
 Tel.: + 27 (041) 4531300
 Fax: + 27 (041) 4532765

Plug Repairs Using the Wiring Loom Repair Kit

Do not use excessive force while repairing plugs. When inserting the replacement terminals listen or feel for the "click" to make sure that the terminal engages correctly.

Special Tools

(Included in the wiring loom repair kit)

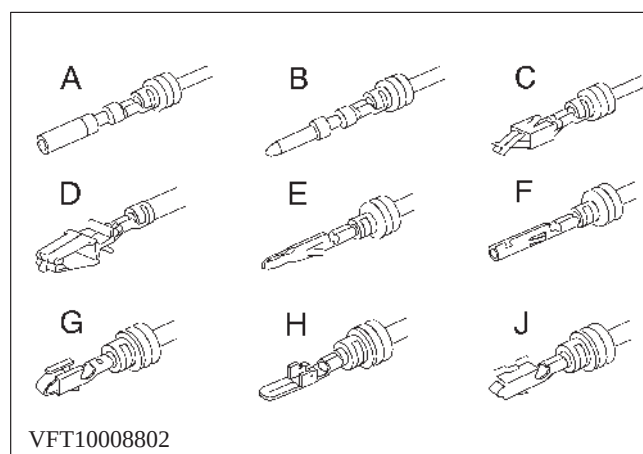
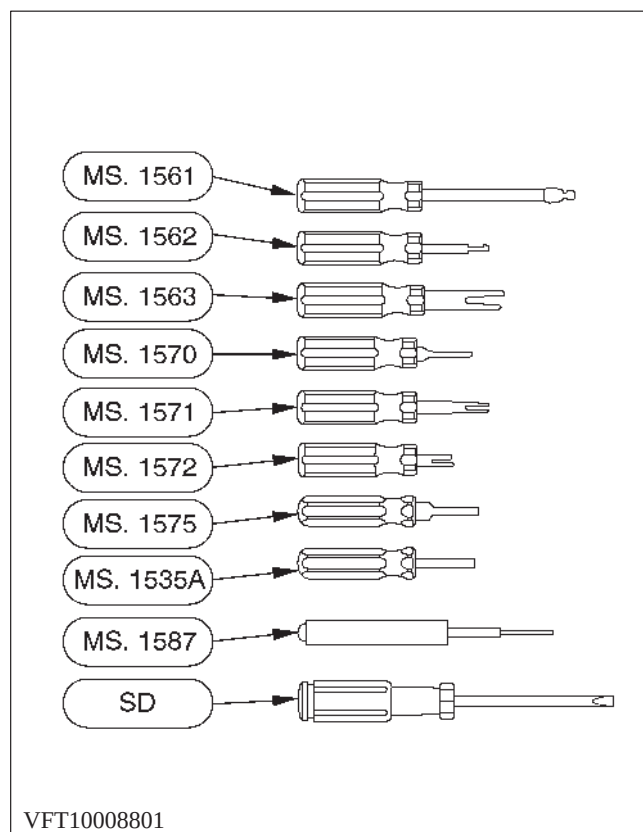
MS. 1561	=	Extractor
MS. 1562	=	Extractor
MS. 1563	=	Releasing tool I
MS. 1570	=	Extractor
MS. 1571	=	Releasing tool II
MS. 1572	=	Releasing tool III
SD	=	Screwdriver
MS. 1535A	=	Releasing tool IV
MS. 1575	=	Releasing tool V
MS. 1587	=	Releasing tool VI

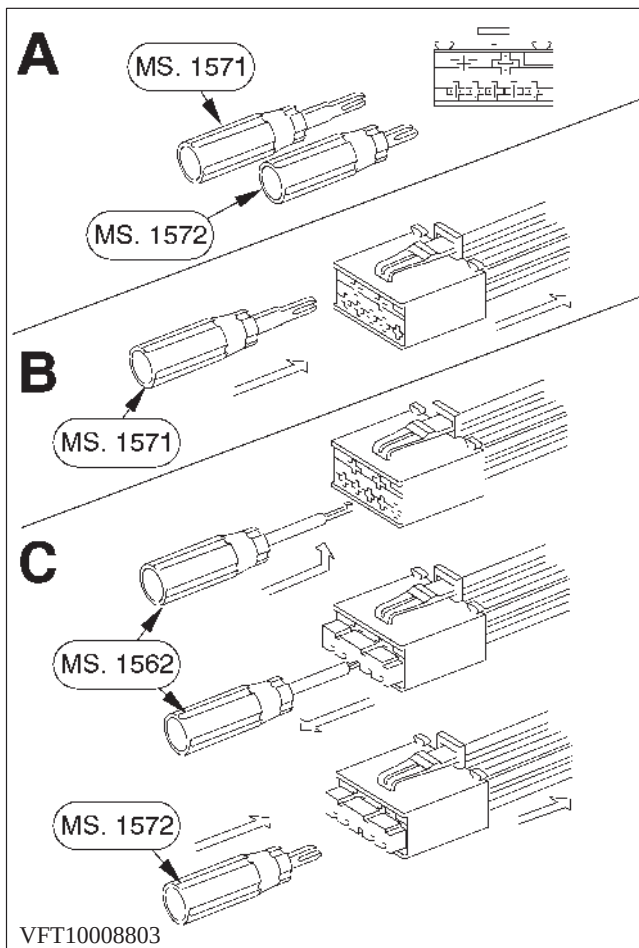
Available Individual Connectors

(Included in the wiring loom repair kit)

A	=	Socket terminal
B	=	Pin
C	=	DFK flat-pin terminal
D	=	ESPA DFK-1 flat-pin terminal
E	=	Pin terminal
F	=	Socket terminal
G	=	Flat socket terminal
H	=	Flat pin terminal
J	=	Socket terminal

These connectors are already provided with cable terminations of different cross sections. The repair kit also includes various crimp-on sleeves for connection to the loom cable.

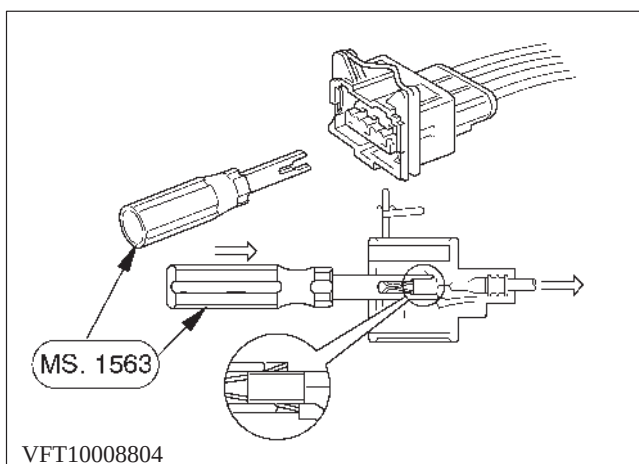


**Dismantling Double-Row Multiplugs**

Note: Two different releasing tools are used (A),
 – MS. 1571 with two legs of equal length
 – MS. 1572 with two legs of different lengths

To remove the larger (upper) flat-pin terminal, insert releasing tool MS. 1571 and press the flat-pin terminal out towards the rear (B).

To remove the smaller (lower) flat-pin terminals, first pull out the unlocking device as far as the first stop using extractor MS. 1562 (C). Then insert releasing tool MS. 1572 with the longer leg adjacent to the red locking device and press the small flat-pin terminal out to the rear (C). Insert the replacement terminal and then engage the locking device fully again.

**Dismantling Type DFK Multiplugs**

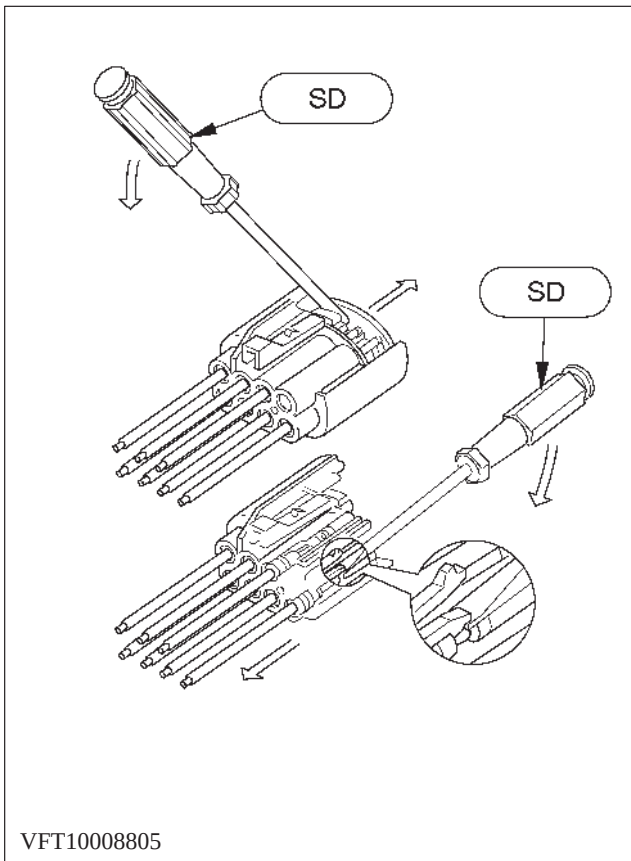
Insert releasing tool MS. 1563 with the longer leg adjacent to the red locking device and press the DFK flat-pin terminal out.

When inserting the replacement terminal, make sure that it engages correctly.

Dismantling Oval Plugs**a) Pin side**

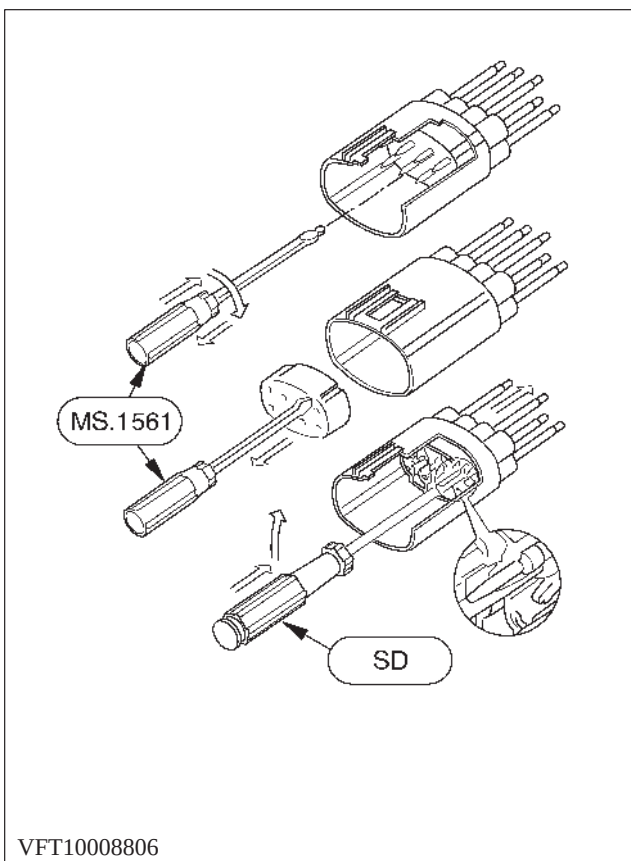
Prise out the cover using screwdriver SD. Then lift the locking device of the pin in question and pull out the pin at the end of the cable.

When inserting the replacement pin, make sure that it engages correctly.

**b) Socket side**

Remove the locking cap completely using extractor MS. 1561. Then lift the locking device with screwdriver SD and pull out the socket terminal at the end of the cable.

When inserting the replacement socket terminal, make sure that it engages correctly.

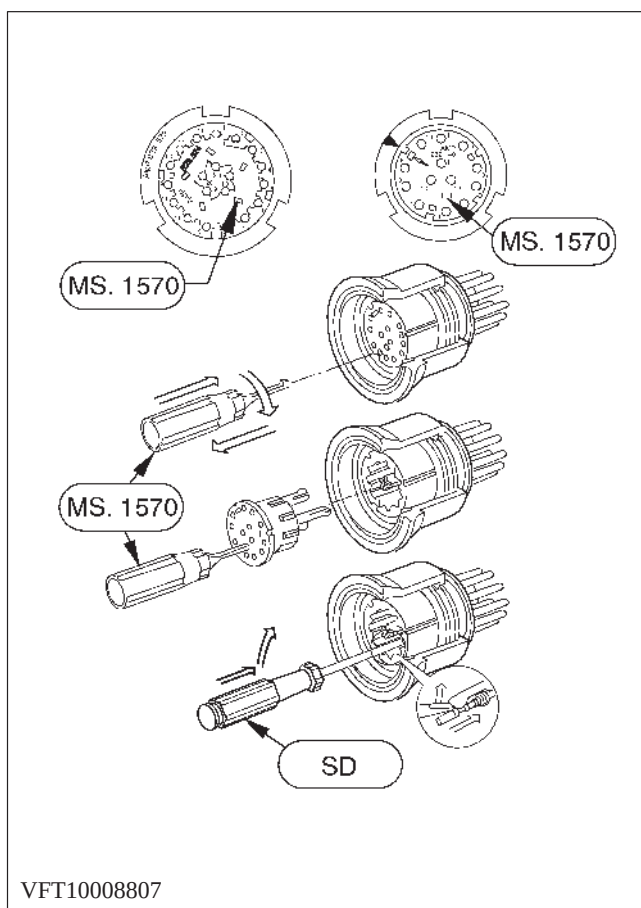


Dismantling Round Plugs

Insert extractor MS. 1570 in one of the rectangular openings, turn through 90° and pull out the red locking device completely.

Then lift the locking tab of the pin or sleeve-type terminal in question slightly with screwdriver SD and pull out the terminal on the cable.

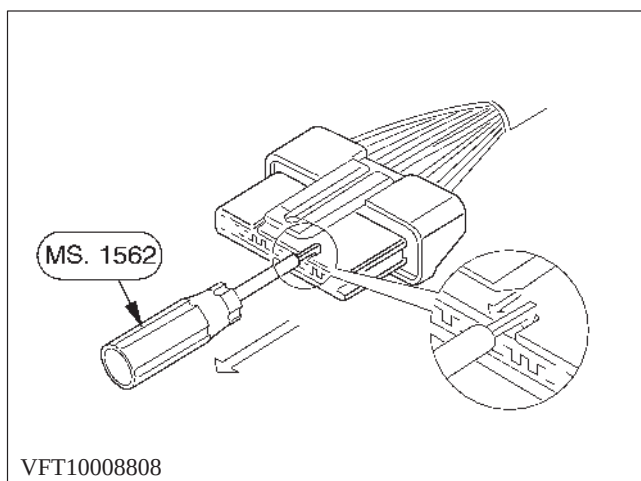
When inserting the replacement terminal, make sure that the terminal and red locking device engage fully.

**Dismantling Single-Row Multiplugs**

Pull the locking device towards the front using extractor MS. 1562 (to disengage it).

Then pull out the single terminal in question on its cable towards the rear.

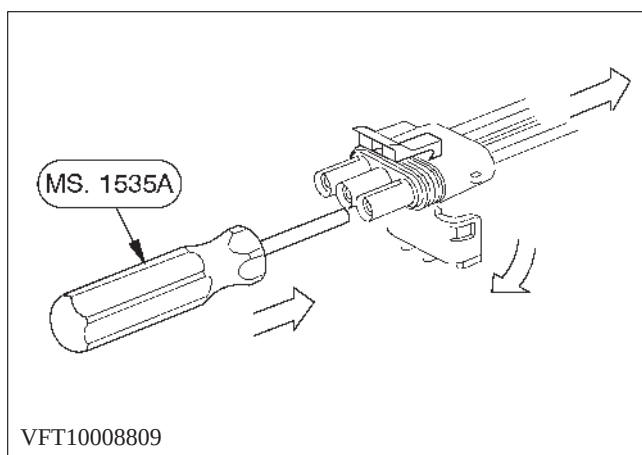
The locking device must engage correctly after insertion of the replacement terminal.



Connector Repair Procedures

100-00-05

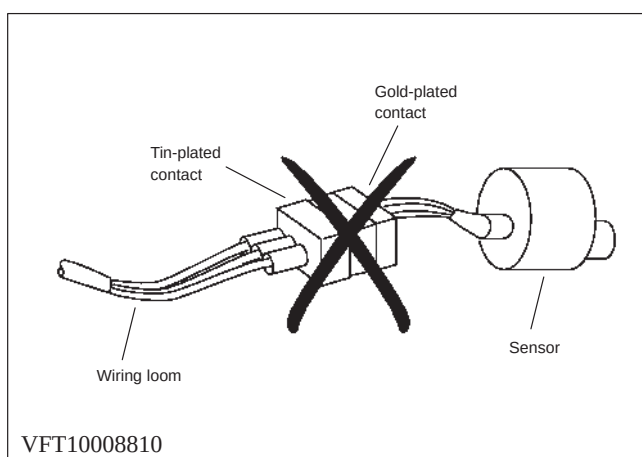
-5



Dismantling 3-Pin Plugs

Open the locking device. Then press in the pin in question - as shown - with the available releasing tool MS. 1535A and pull out the cable towards the rear.

When inserting the replacement terminal, listen or feel for the "click" to make sure that the pin and locking device engage correctly.



Gold-plated contacts

Servicing sensors and connectors with gold-plated contacts for engine control systems

Connectors with gold-plated contacts have been introduced at various critical connections (current less than 1 mA, voltage under 5 V) in the engine control systems. Gold-plated contacts have significantly less resistance than the tin-plated contacts which have been used previously. Uninterrupted, interference-free signal transmission to the engine control unit can thus be guaranteed.

NOTE:

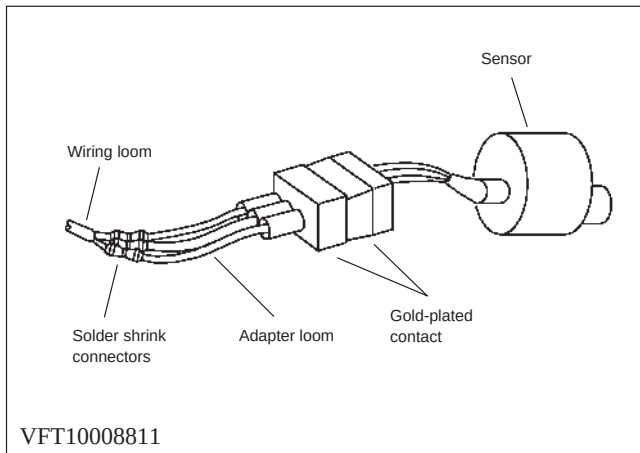
Gold-plated contacts must never be connected with tin-plated contacts (figure VFT10008810). Not only can the gold plating be damaged, but the resulting resistance is much higher than either a gold-gold connection or a tin-tin connection.

The contacts which are needed to repair the gold-plated connections can be obtained as an addition to the wiring loom repair kit from Grundy. The addition to the kit includes gold-plated contacts with white pigtails and a tube of special grease. Connectors with gold-plated contacts are protected by a special grease which is applied during production and therefore must never be treated with lithium grease.

Connector Repair Procedures

100-00-05

-6



When a connector or a sensor needs to be replaced, the new replacement may include gold-plated contacts.

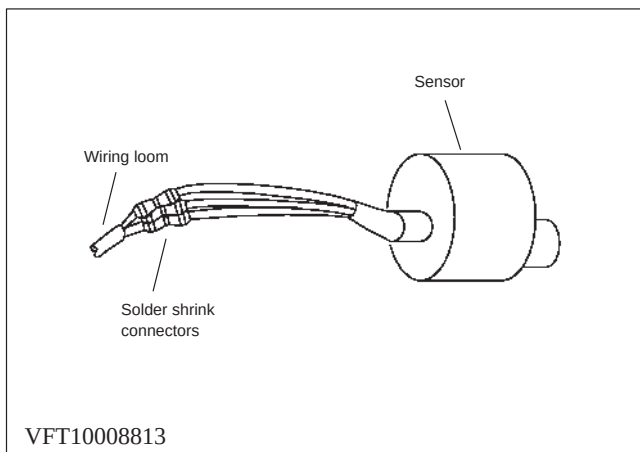
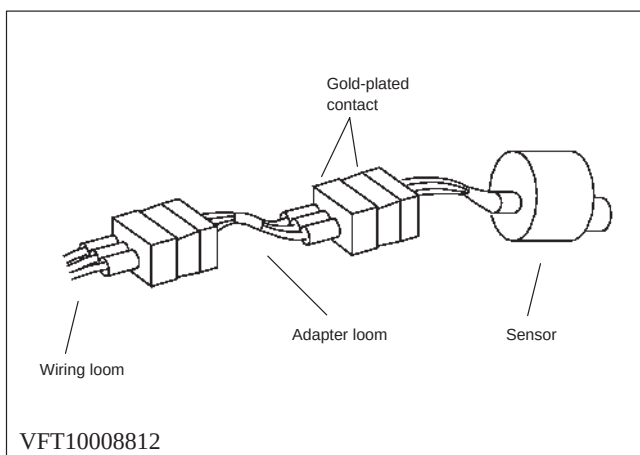
Sensors with gold-plated contacts must only be replaced with those which also have gold-plated contacts.

If a sensor with tin-plated contacts is to be replaced with a new sensor with gold-plated contacts, a special adapter loom must be used. The same applies to replacement wiring looms with gold-plated contacts which are being connected to sensors with tin-plated contacts.

The adapter loom for the throttle position sensor (TPS) and the camshaft position sensor must be attached with solder shrink connectors (figure VFT10008811). The adapter loom for the crankshaft position sensor has a connector at both ends and only needs to be plugged in between the sensor and the wiring loom (figure VFT10008812).

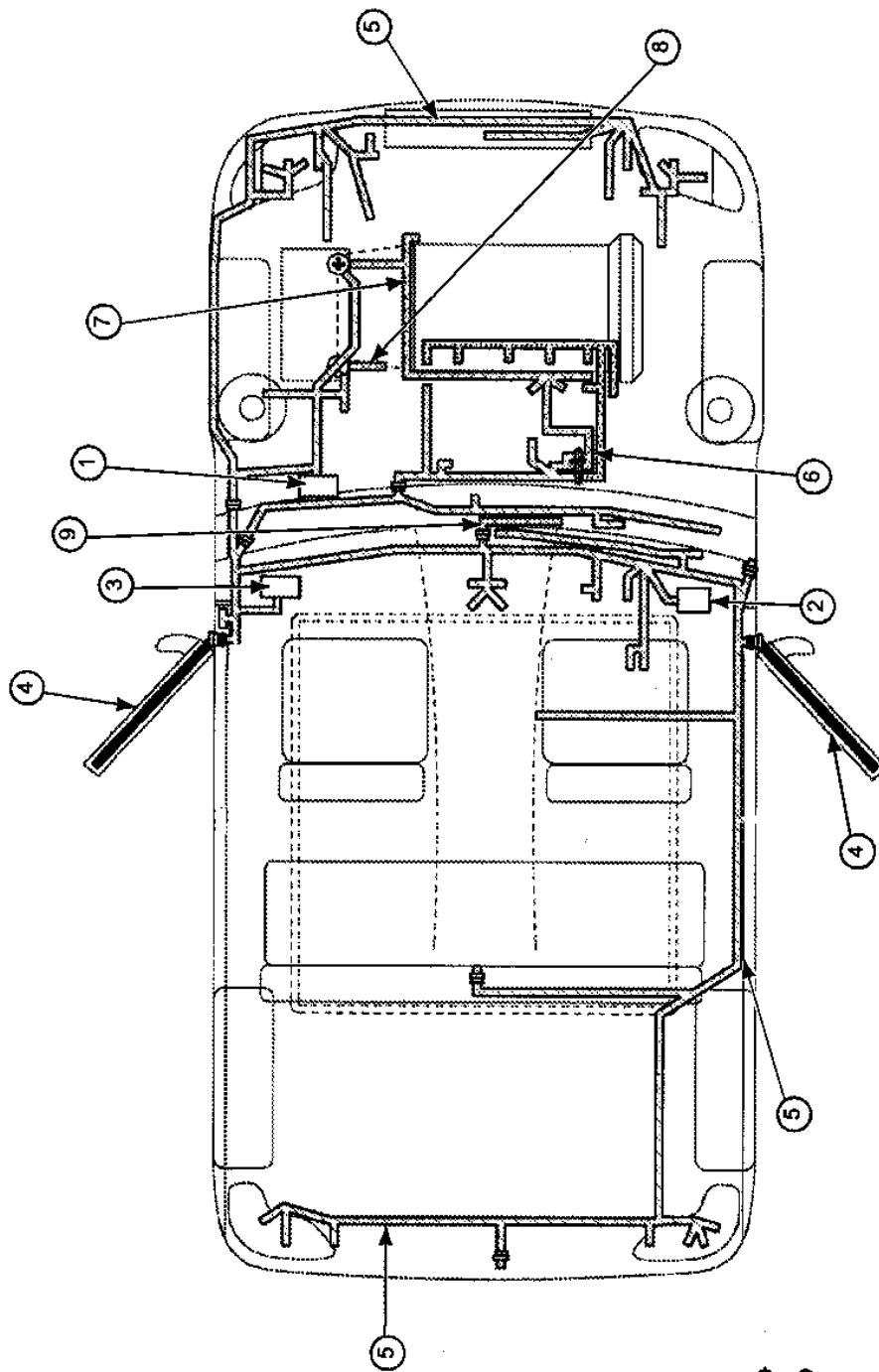
The throttle position sensor (TPS) can be replaced with a new sensor (with gold-plated contacts) by cutting the wiring loom, removing the connector and attaching the wires back together with solder shrink connectors (figure VFT10008813).

Only solder shrink connectors should be used to attach cut wires together (order from Ford parts). The solder shrink connectors that are available in the wiring loom repair kit from Grundy are approximately the same.



1,31

-1



- ⌘ Connector
- ⌘ Grommet

Wiring Harness Overview

100-00-06

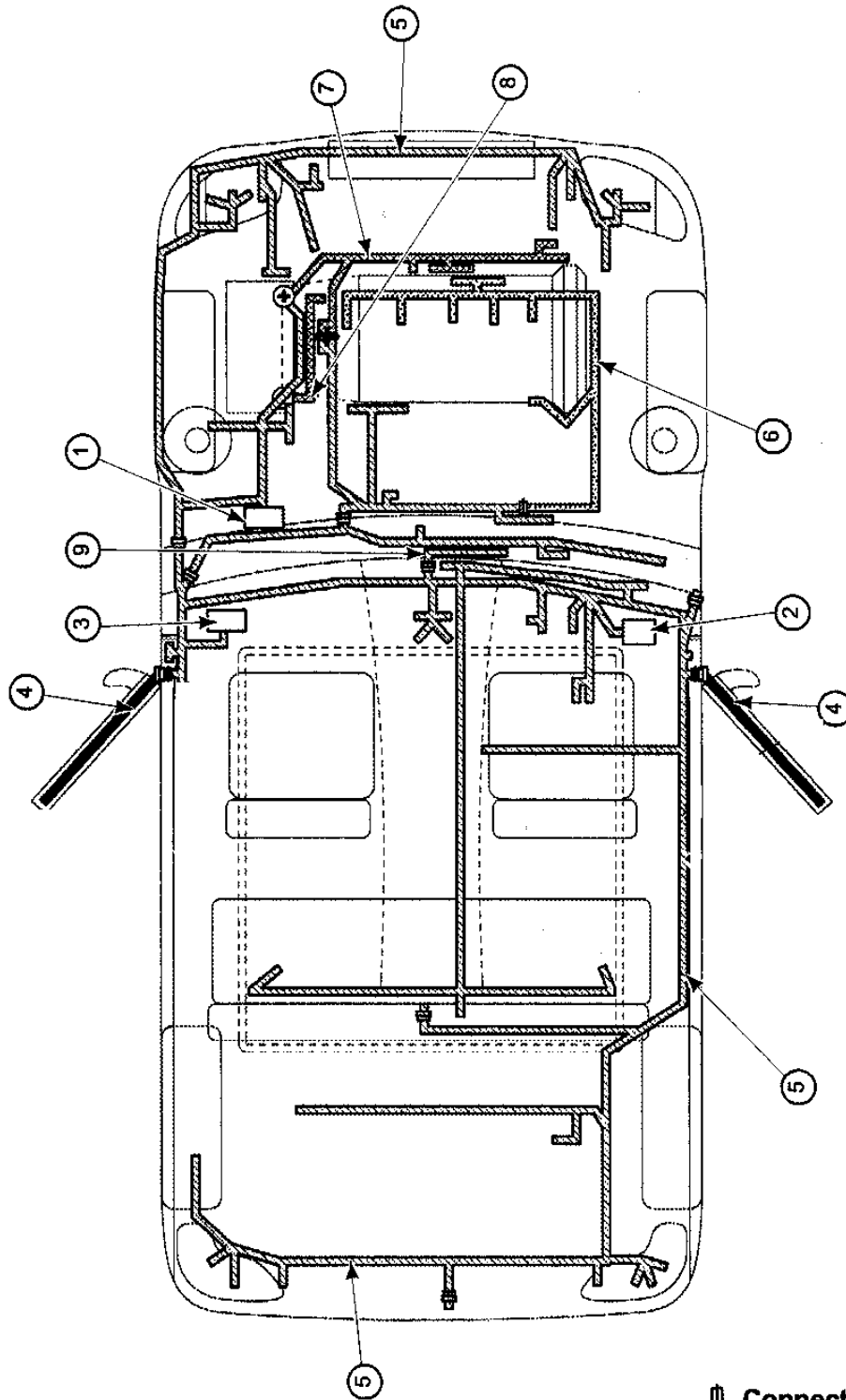
1,3 I

-2

Item	Part Number	Description
1	–	Battery Junction Box (BJB)
2	–	Central Junction Box (CJB)
3	–	Powertrain Control Module (PCM)
4	14A584	Wiring harness – Doors
5	14401	Main wiring harness
6	9H589	Wiring harness – Fuel shutoff
7	14300	Wiring harness – Battery output
8	14301	Wiring harness – Engine ground
9	18B518	Wiring harness – Heater blower

1,6 l

-3



⊞ Connector

⊞ Grommet

Wiring Harness Overview

100-00-06

1,6 l

-4

Item	Part Number	Description
1	–	Battery Junction Box (BJB)
2	–	Central Junction Box (CJB)
3	–	Powertrain Control Module (PCM)
4	14A584	Wiring harness – Doors
5	14401	Main wiring harness
6	9H589	Wiring harness – Fuel shutoff
7	14300	Wiring harness – Battery output
8	14301	Wiring harness – Engine ground
9	18B518	Wiring harness – Heater blower

Chassis

Group 2

Currently no chassis electrical systems are installed on this vehicle.

Powertrain

Group 3

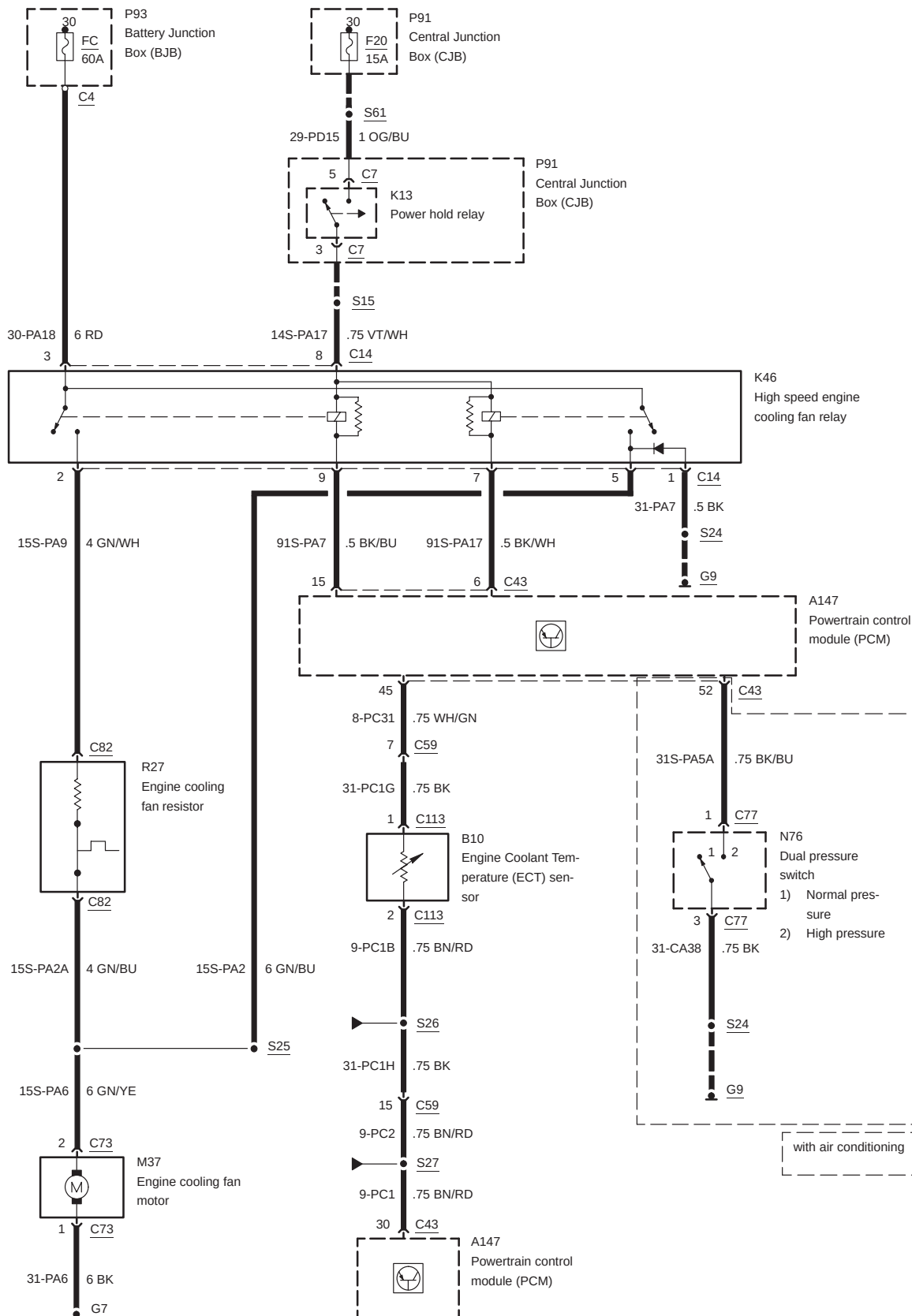
Engine

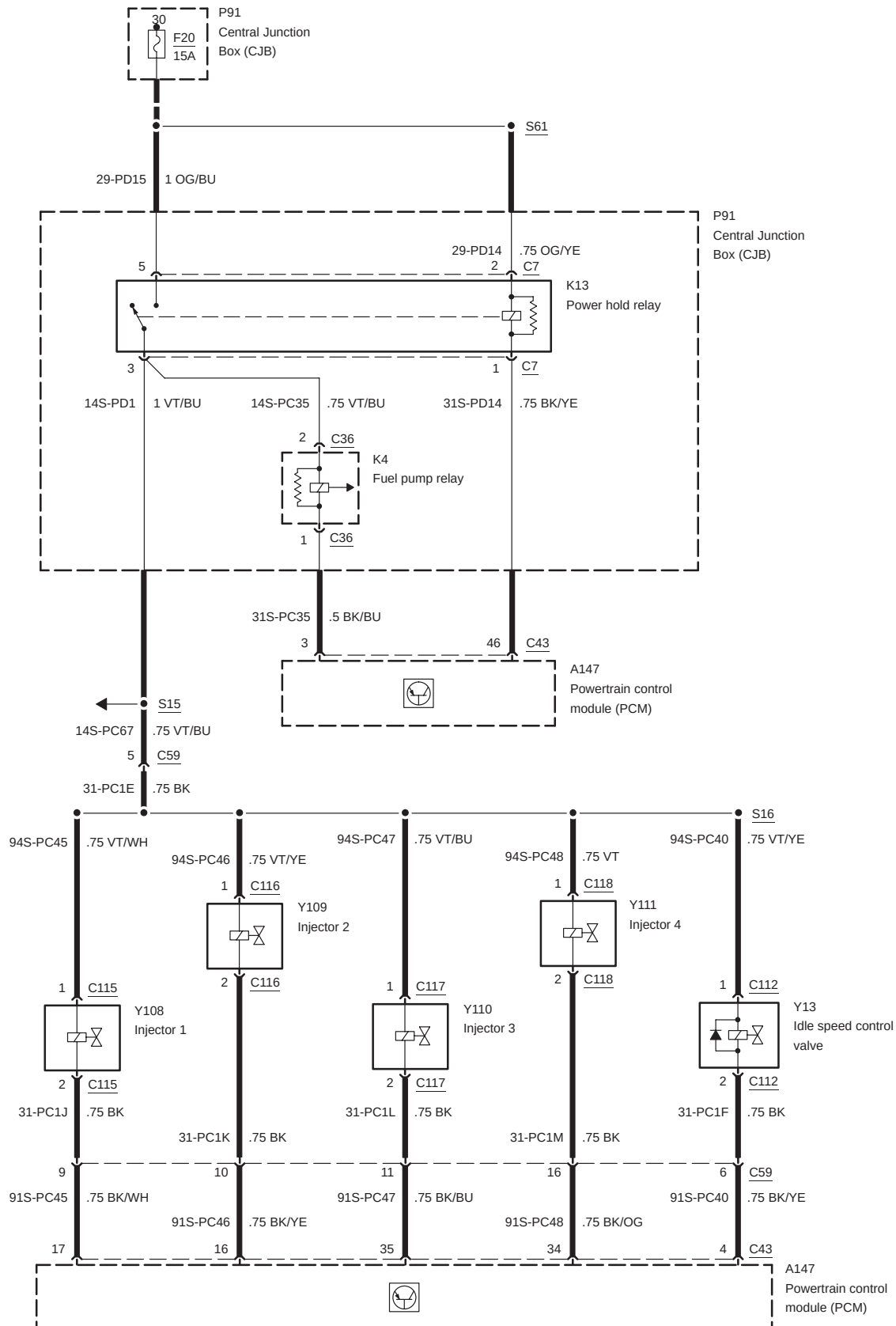
Engine Cooling	303-03-00-1
Fuel Charging and Controls – 1,3 l	303-04A-00-1
Fuel Charging and Controls – 1,6 l	303-04B-00-1
Starting System	303-06-00-1
Engine Ignition – 1,3 l	303-07A-00-1
Engine Ignition – 1,6 l	303-07B-00-1
Electronic Engine Controls – 1,3 l	303-14A-00-A/4
Electronic Engine Controls – 1,6 l	303-14B-00-A/4

Engine Cooling

303-03-00

-1

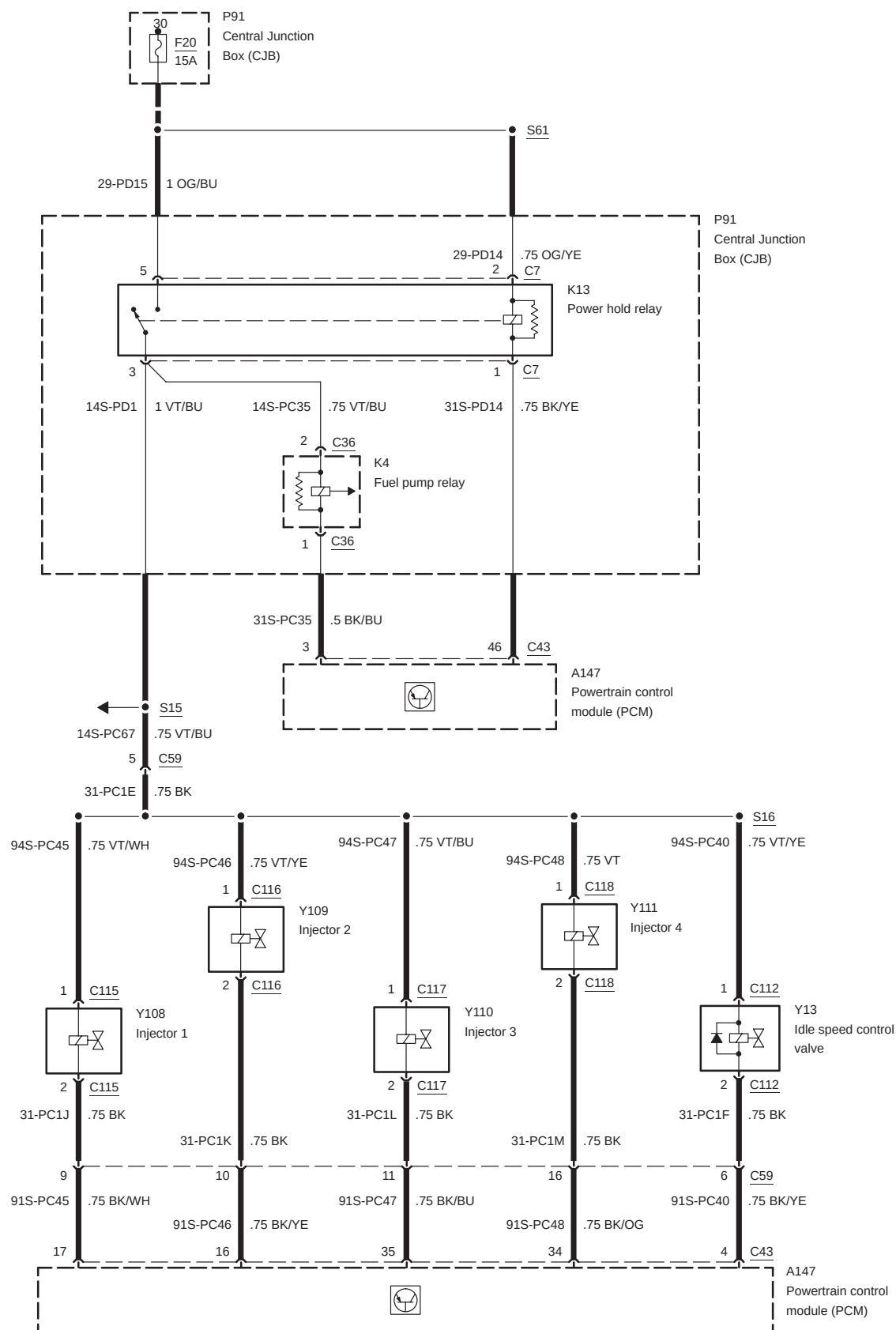




Fuel Charging and Controls – 1,6 l

303-04B-00

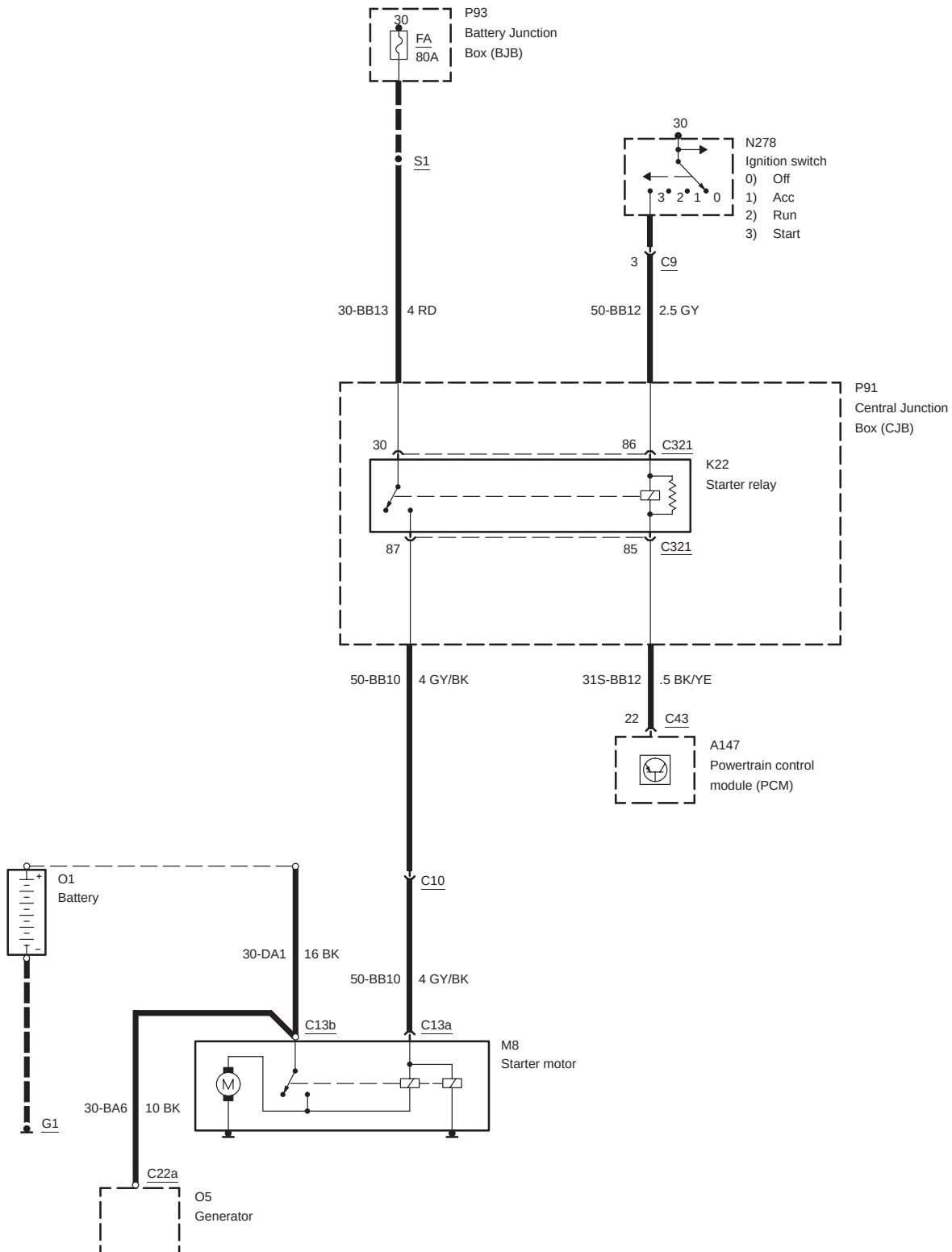
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Starting System

303-06-00

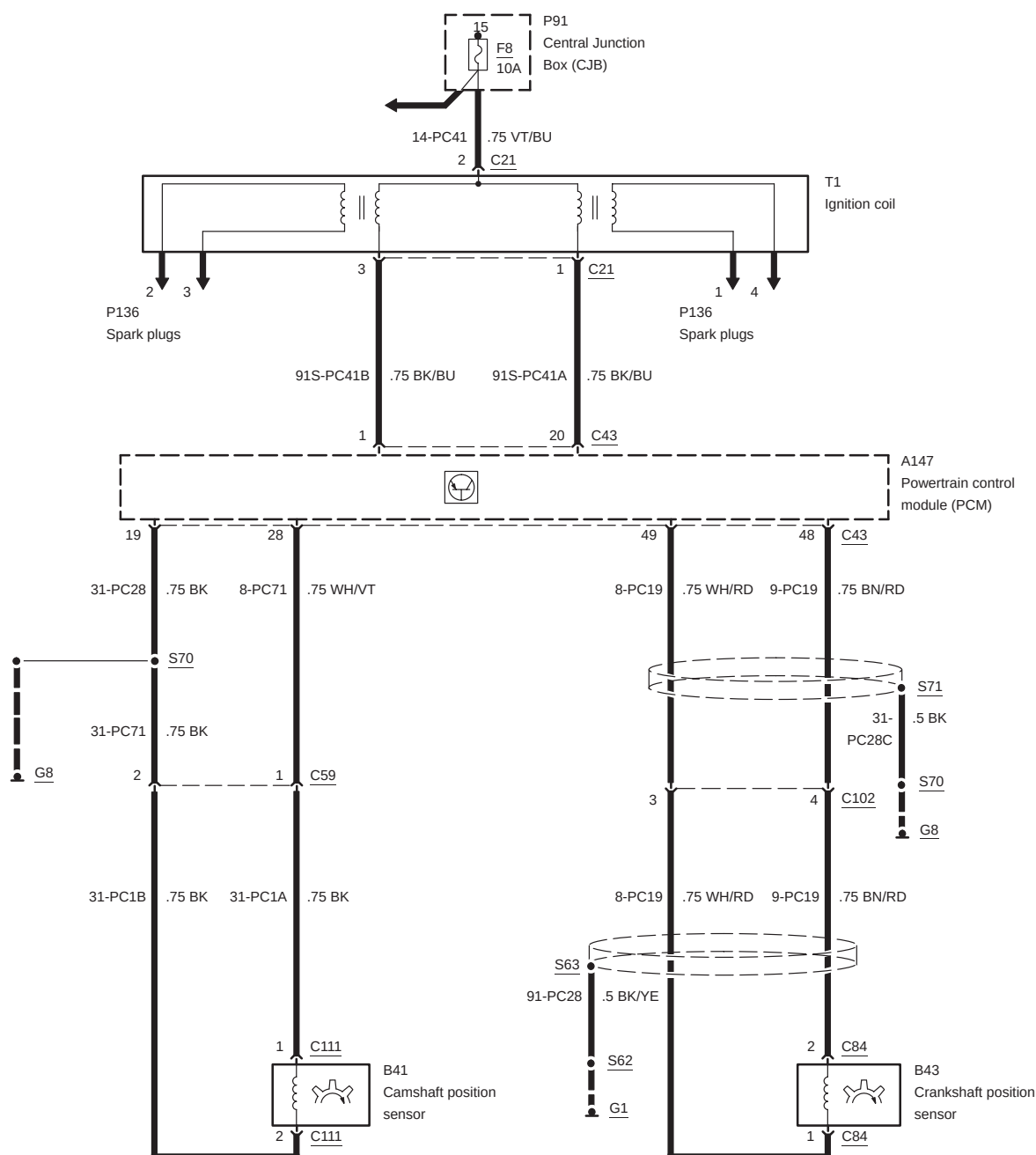
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Engine Ignition – 1,3 l

303-07A-00

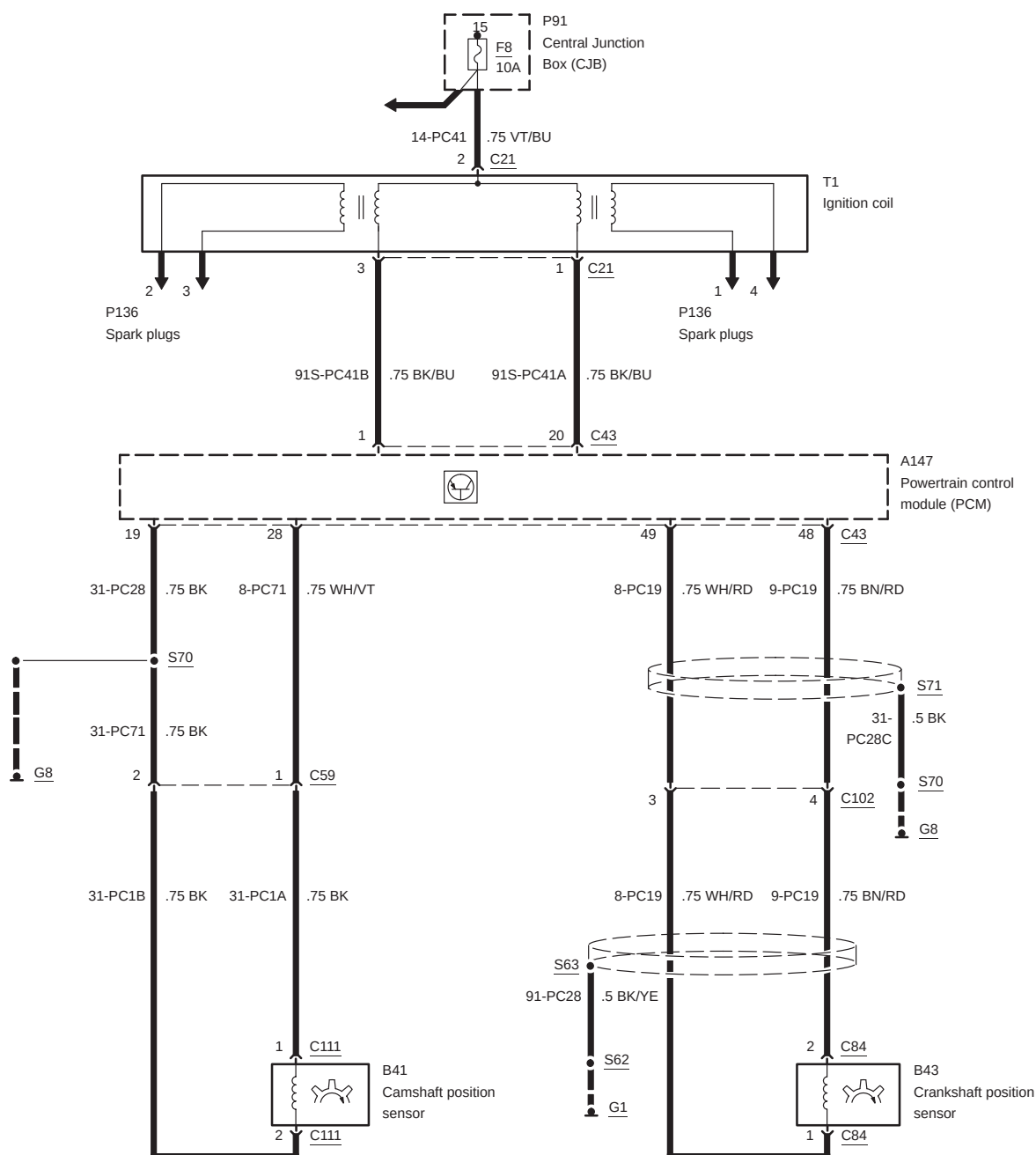
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Engine Ignition – 1,6 l

303-07B-00

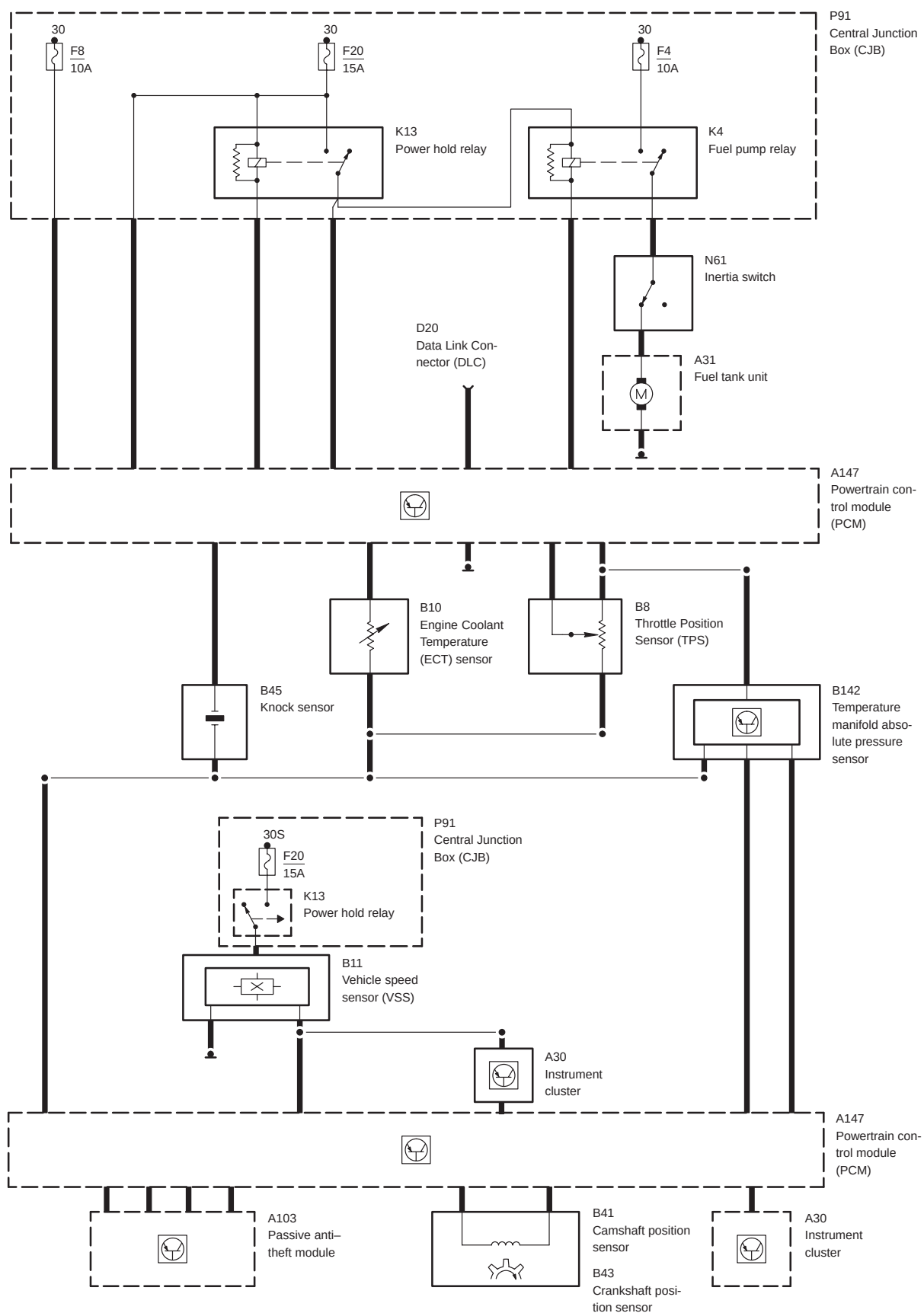
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Electronic Engine Controls – 1,3 I

303-14A-00

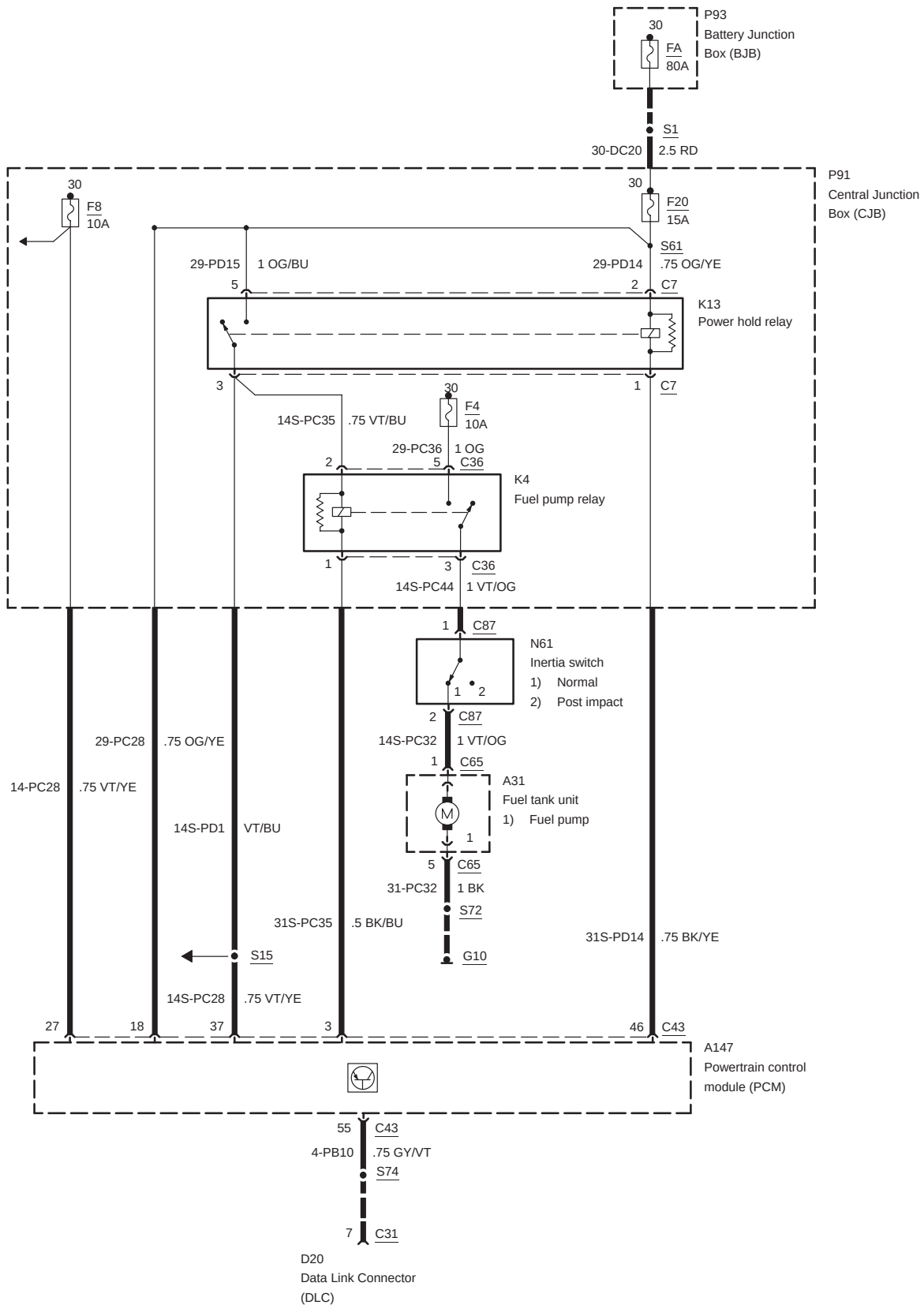
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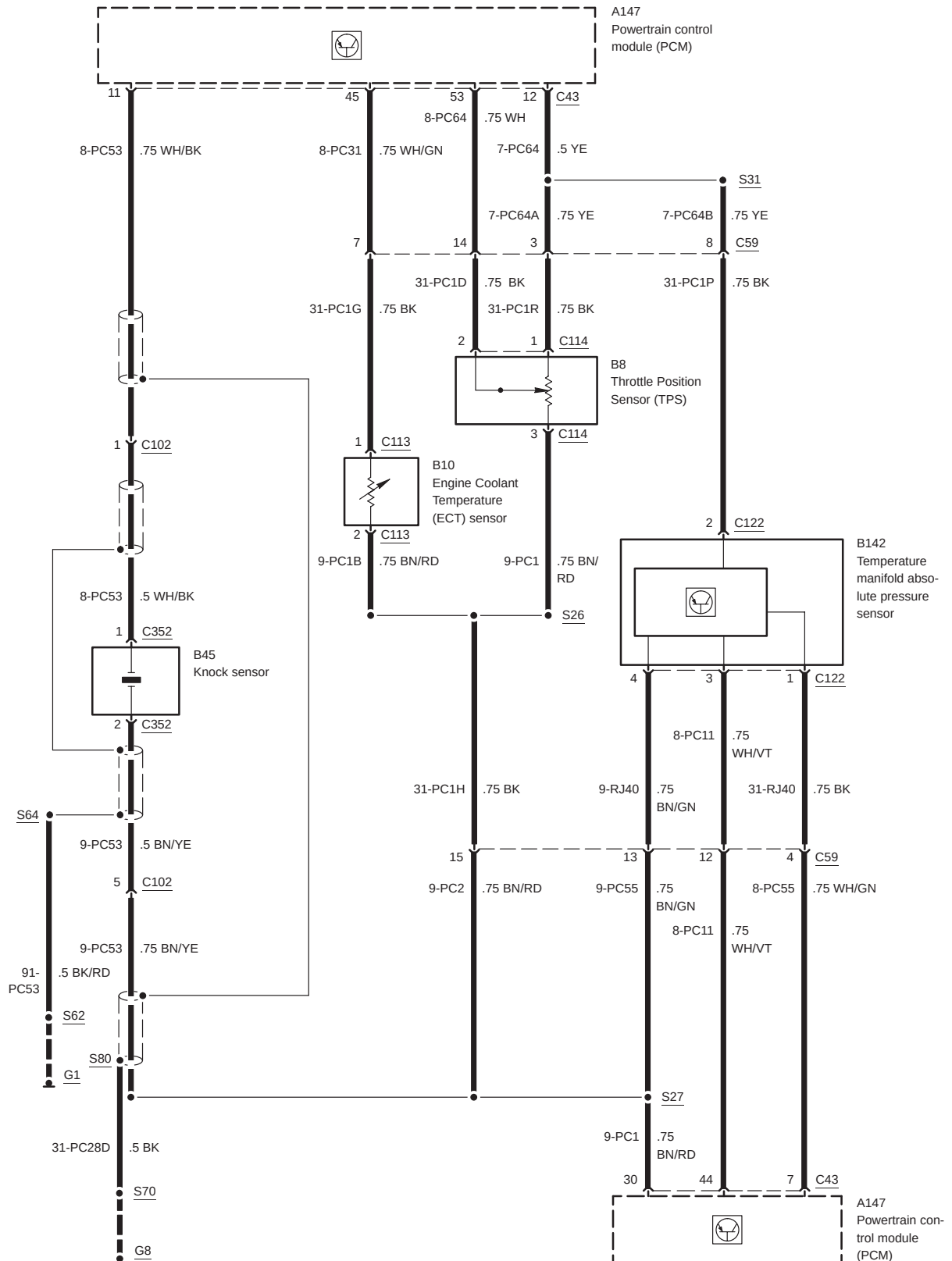


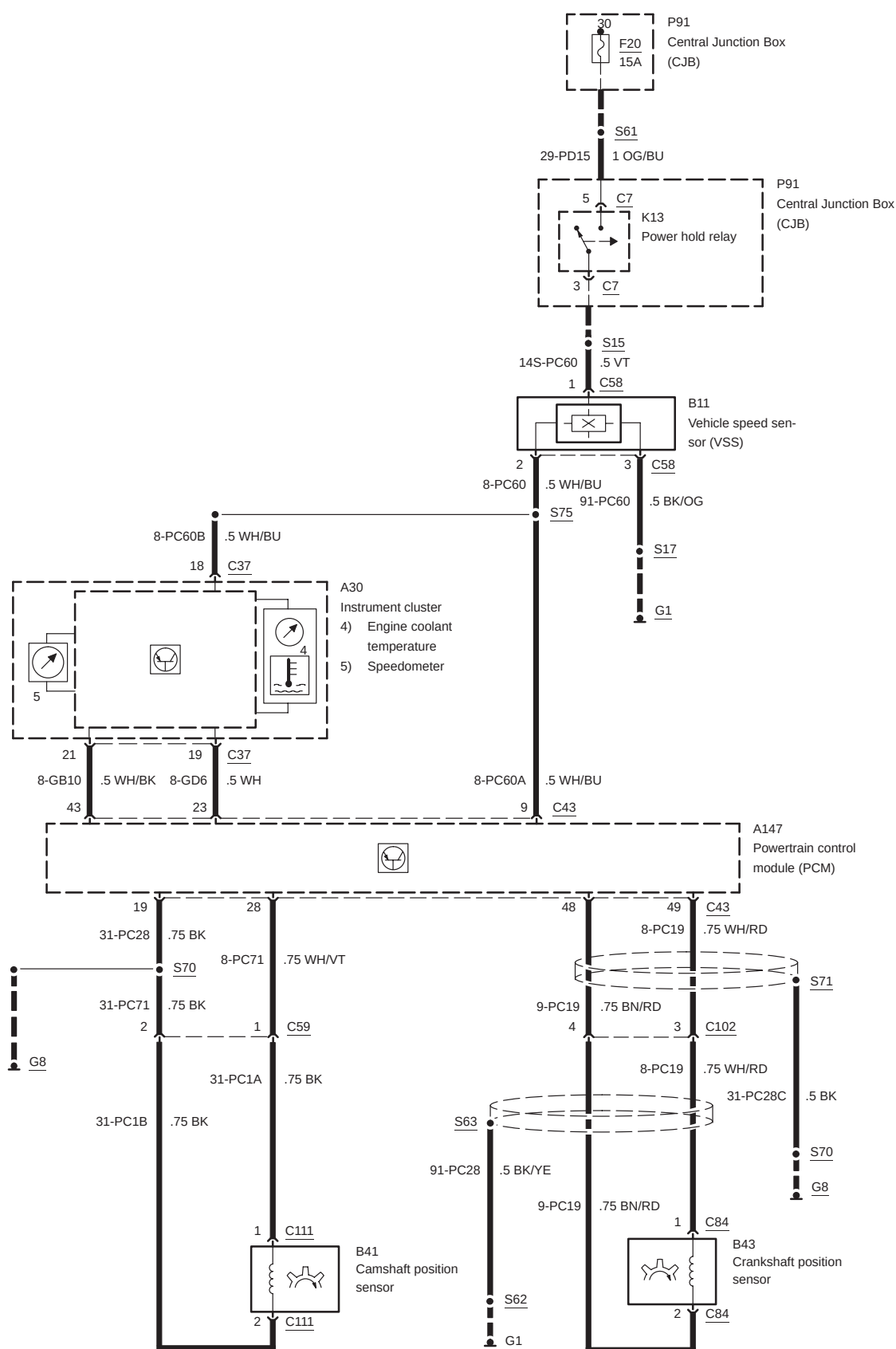
Electronic Engine Controls – 1,3 I

303-14A-00

-1

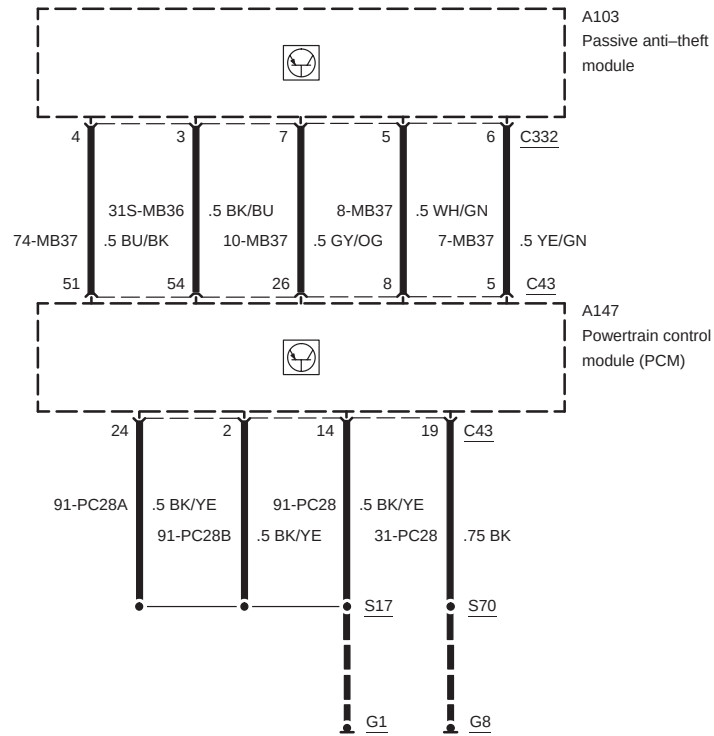






Electronic Engine Controls – 1,3 I

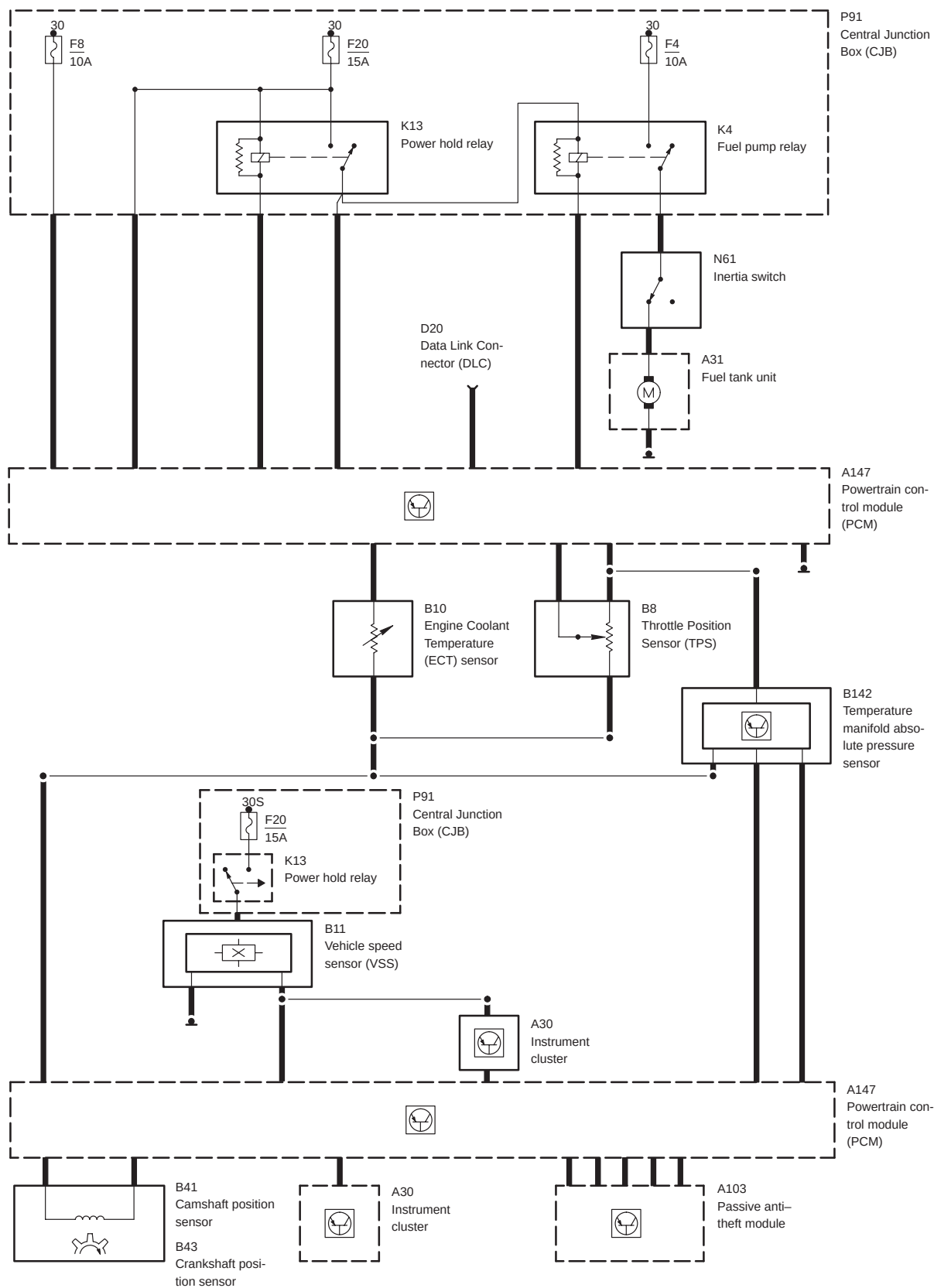
303-14A-00



-4

Electronic Engine Controls – 1,6 l

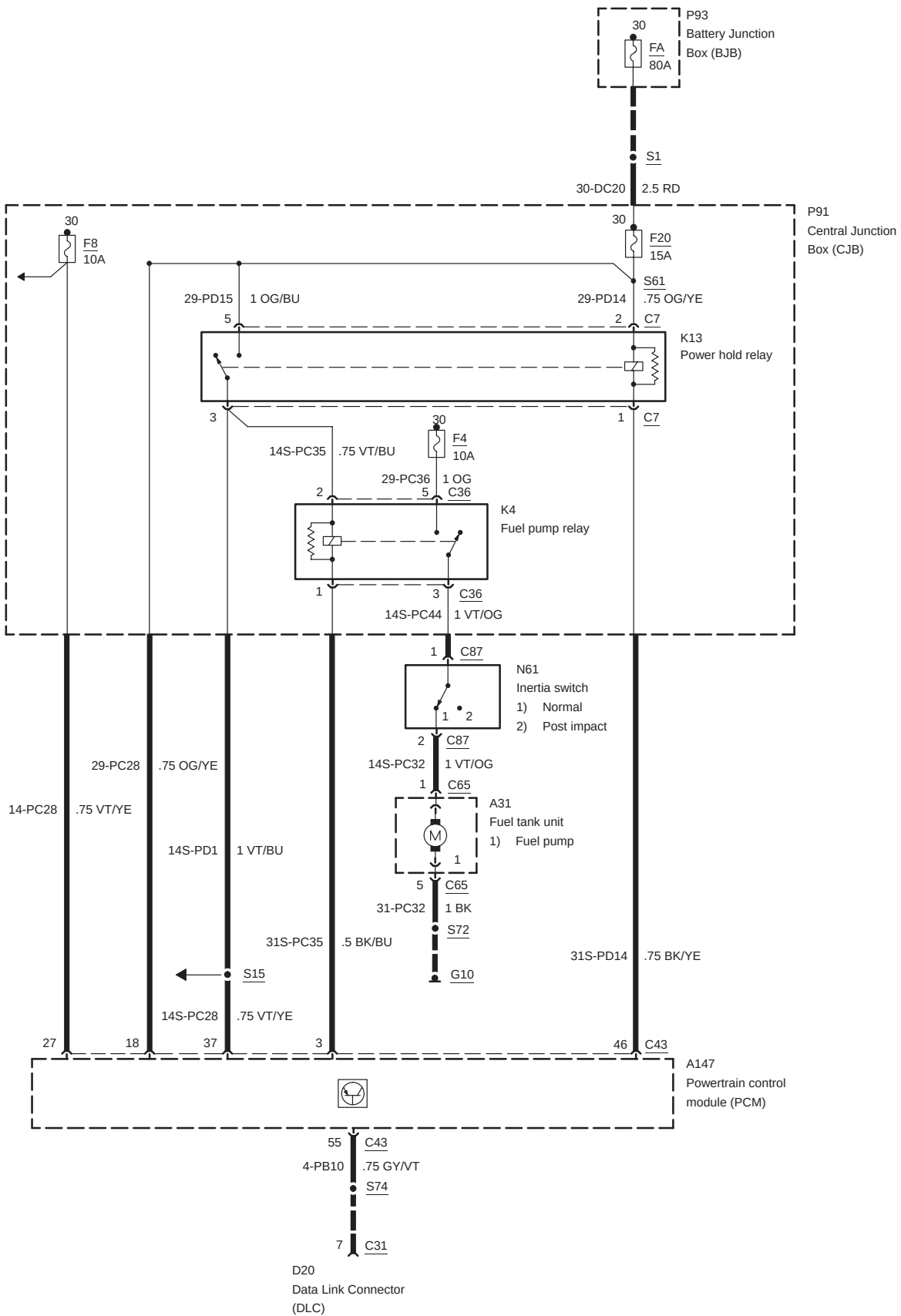
303-14B-00



Electronic Engine Controls – 1,6 l

303-14B-00

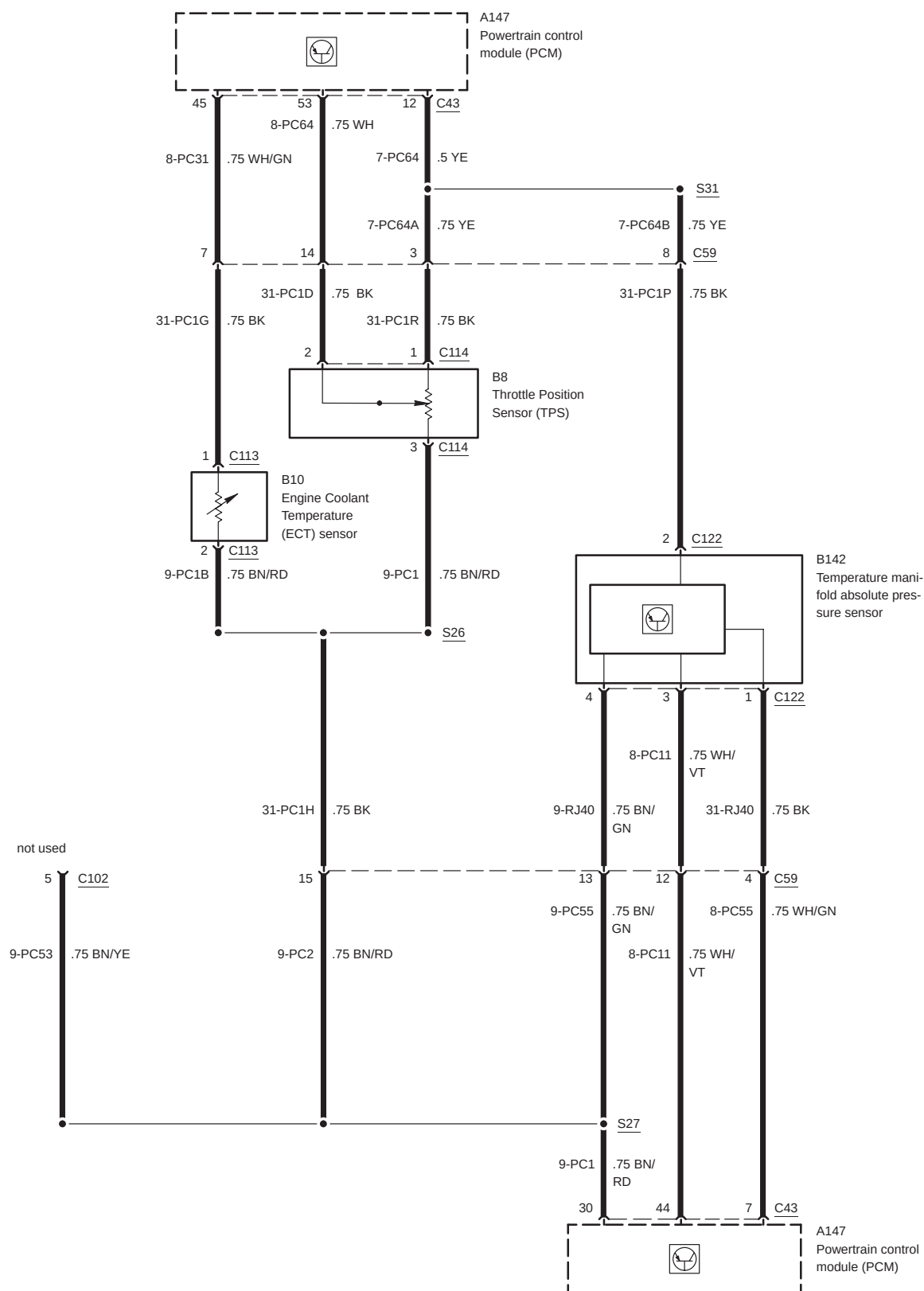
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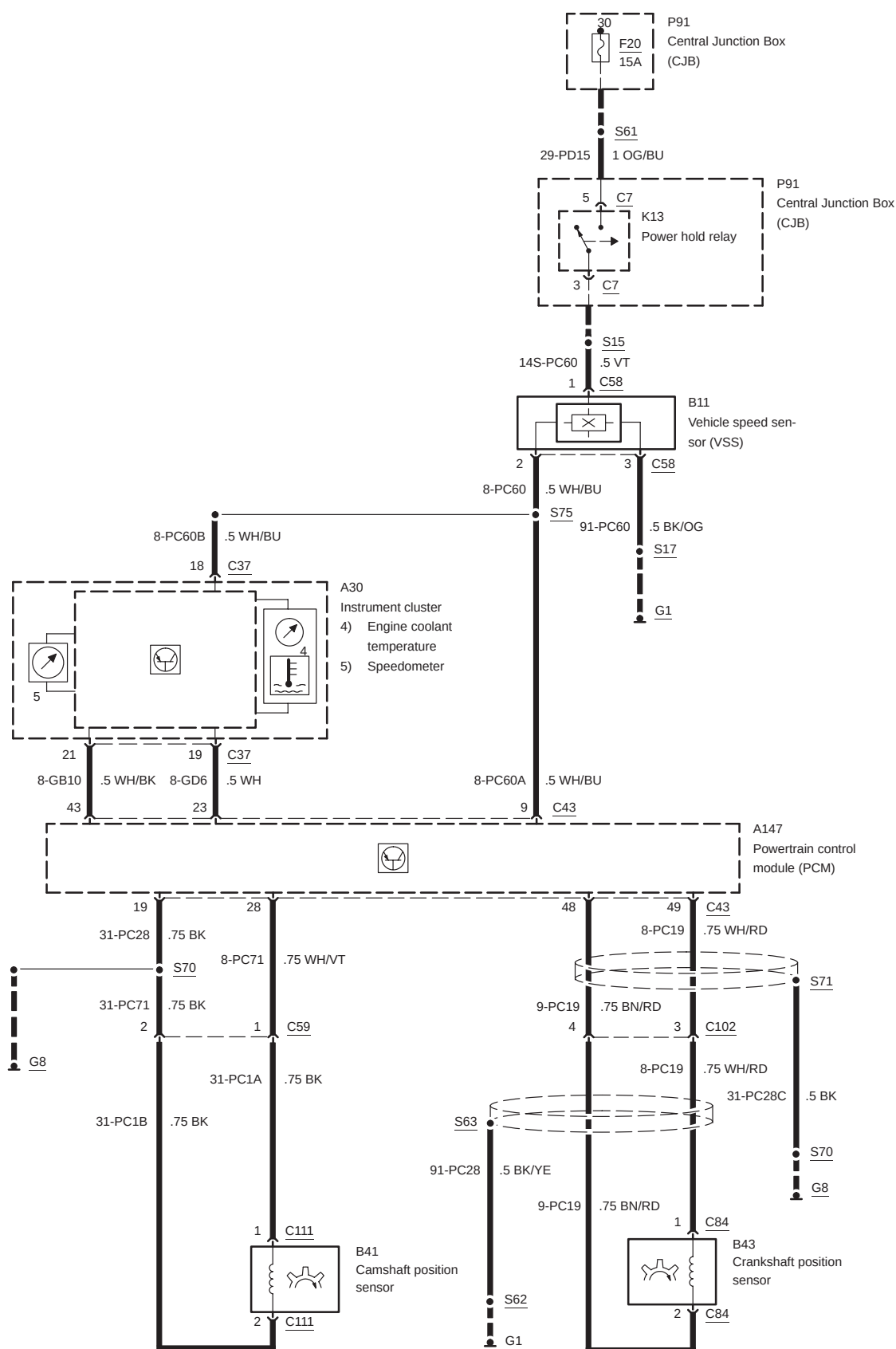


Electronic Engine Controls – 1,6 I

303-14B-00

-2

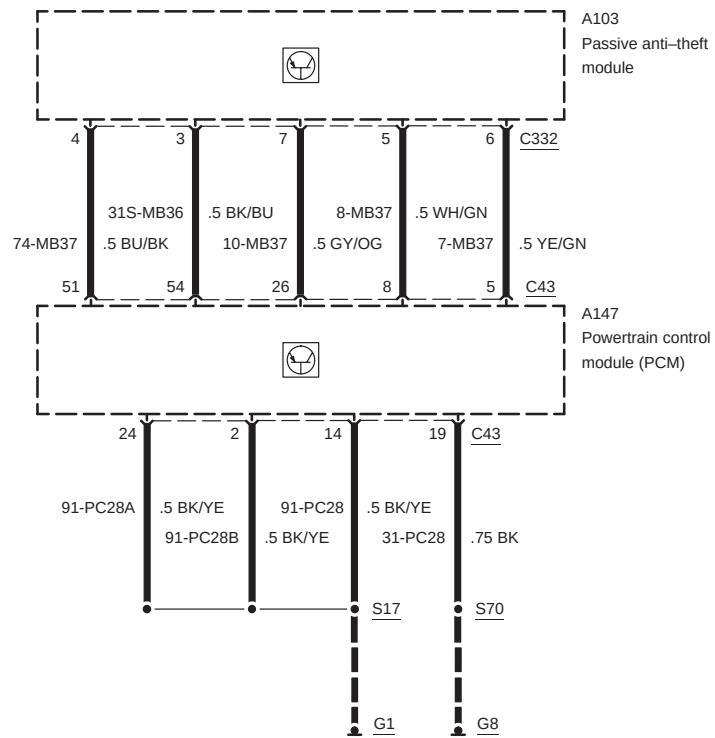




Electronic Engine Controls – 1,6 l

303-14B-00

-4



Electrical

Group 4

Climate Control System

Heating and Ventilation	412-02-00-1/2
Air Conditioning	412-03A-00-1/5

Instrumentation and Warning System

Instrument Cluster and Panel	
Illumination	413-00-00-1/2
Instrument Cluster	413-01-00-1/4
Horn	413-06-00-1
Clock	413-07-00-1
Generator and Regulator	414-02-00-1

Audio Systems

Audio Unit	415-01-00-1
Speakers	415-03-00-1

Lighting Systems

Exterior Lighting – Headlamps	417-01-00-1
Exterior Lighting – Position and Parking Lamps, Licence plate lamps .	417-01-00-2
Exterior Lighting – Turn Indicating Lamps	417-01-00-3
Exterior Lighting – Front fog lamps .	417-01-00-4
Exterior Lighting – Stop Lamps	417-01-00-5
Exterior Lighting – Reversing Lamps	417-01-00-6
Interior Lighting	417-02-00-1

Electrical Distribution

Module Communications Network – Data Link Connector (DLC)	418-00-00-1/3
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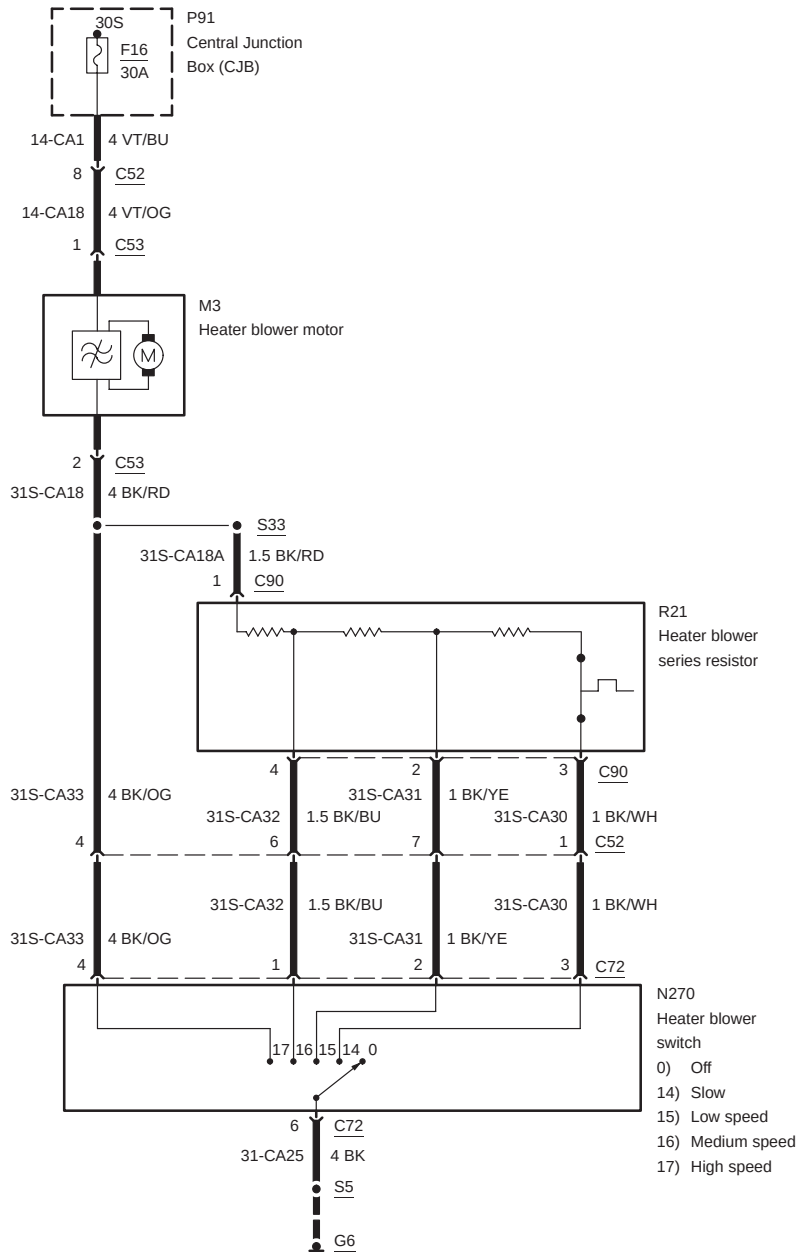
Electronic Feature Group

Anti-Theft – Active	419-01A-00-1/3
Anti-Theft – Passive	419-01B-00-1

Heating and Ventilation

412-02-00

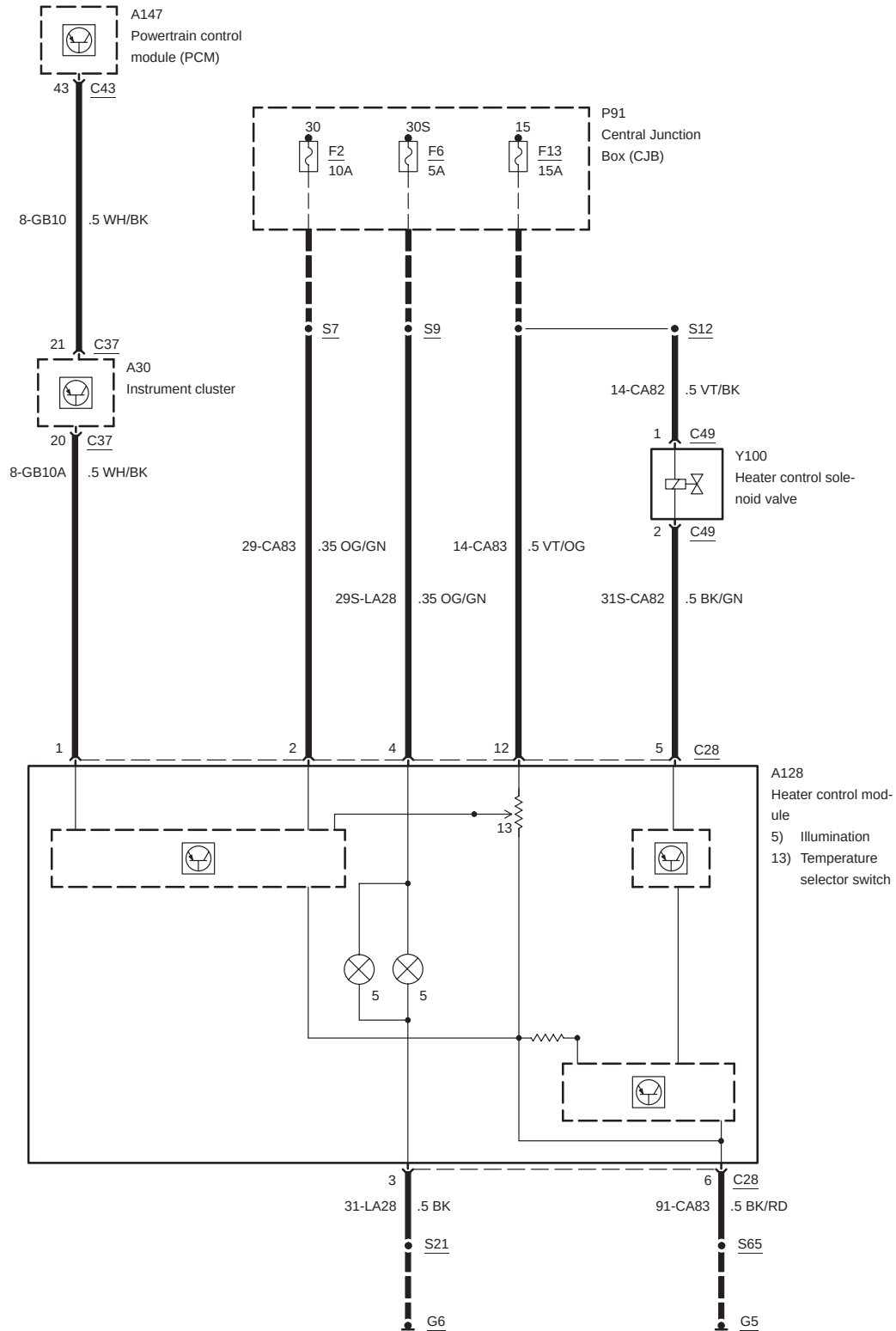
-1



Heating and Ventilation

412-02-00

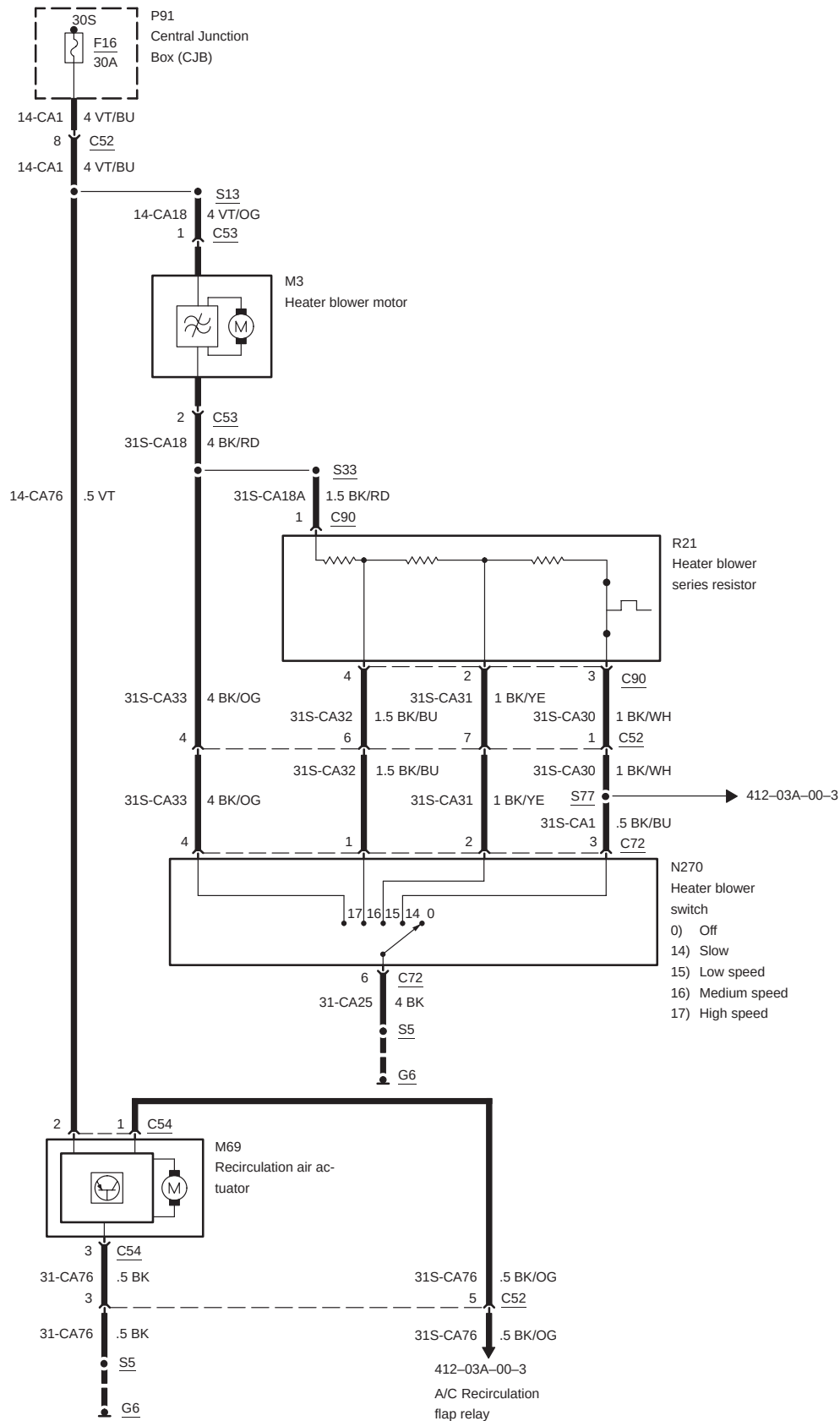
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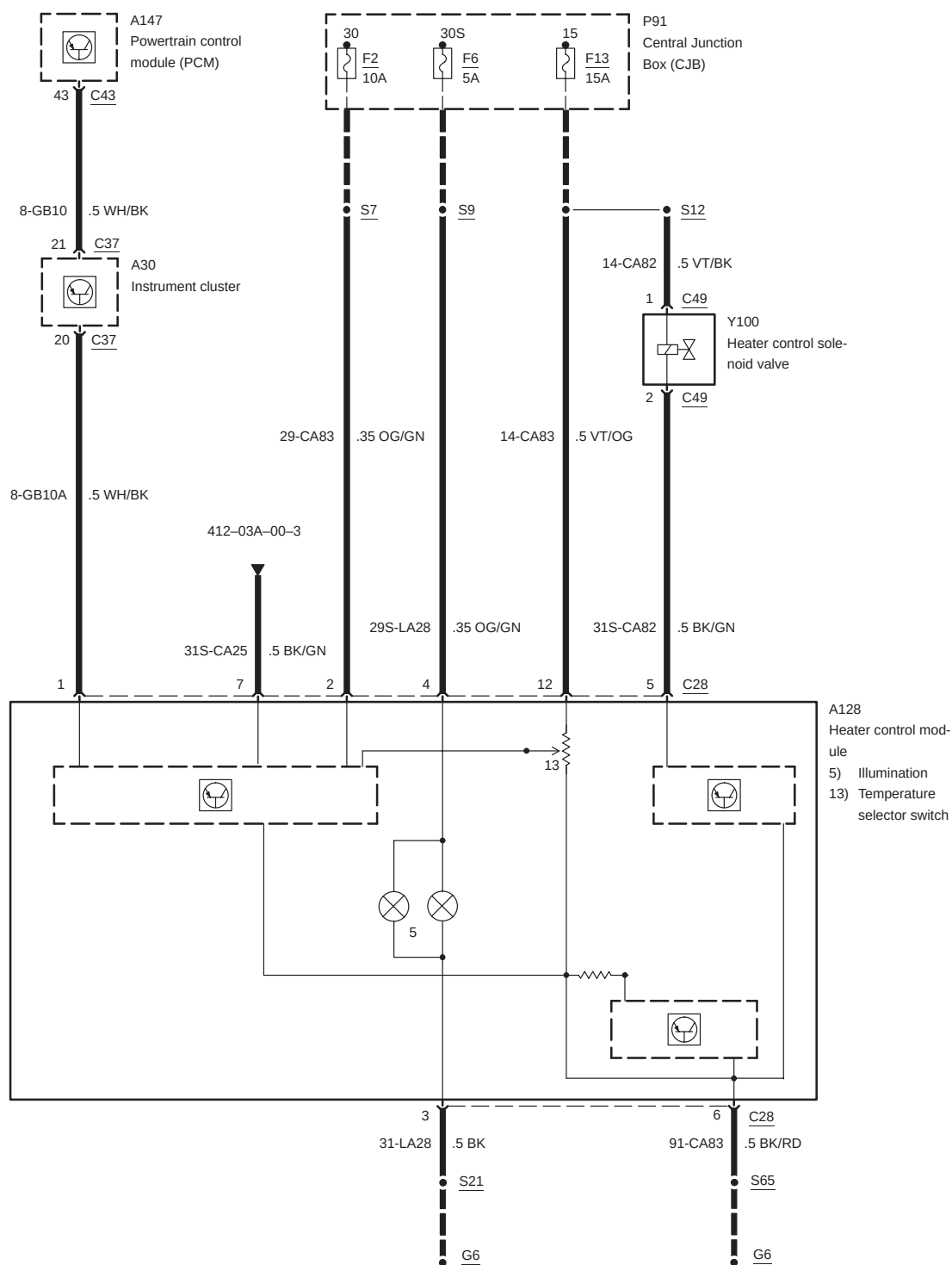


Air Conditioning

412-03A-00

-1

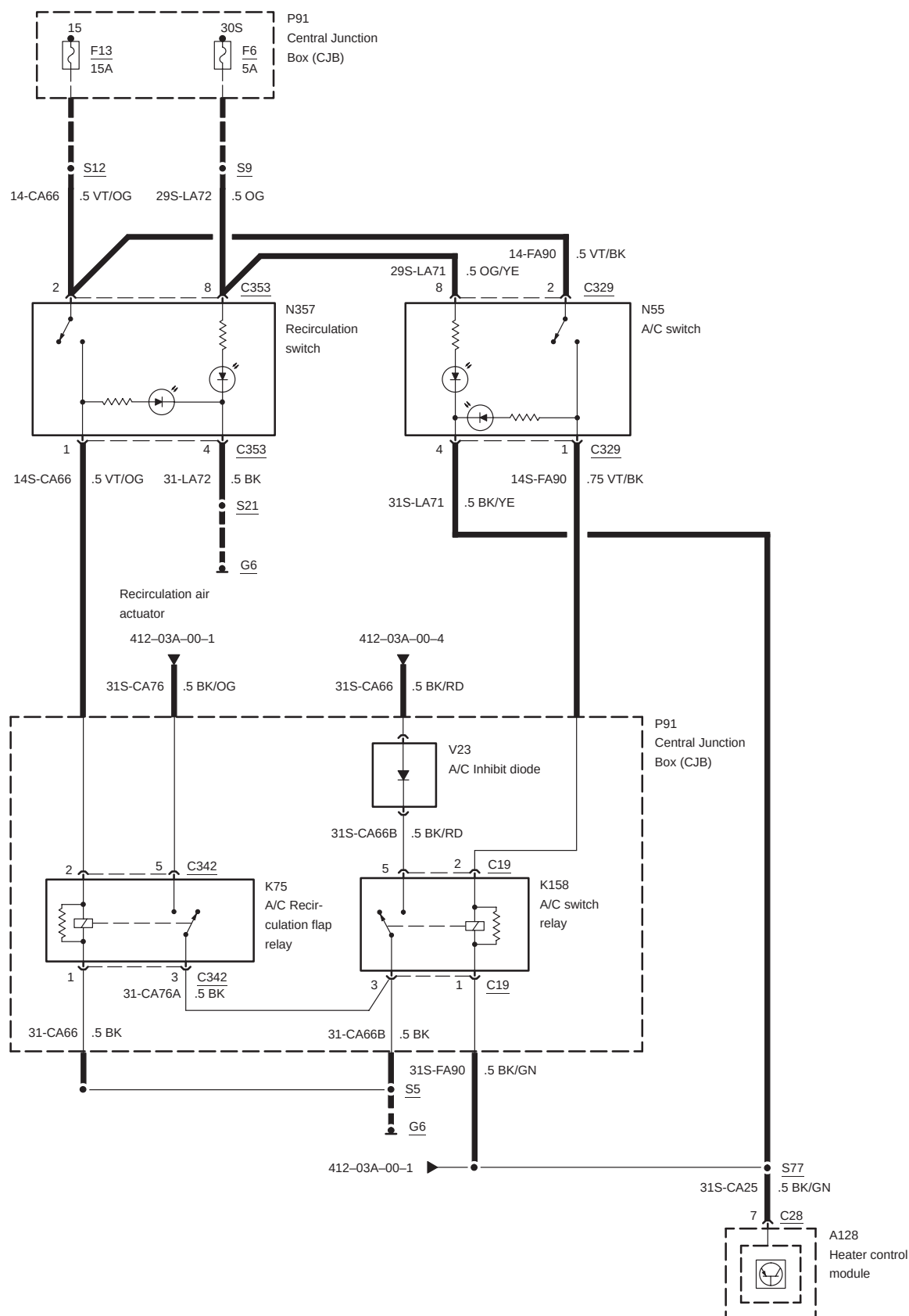


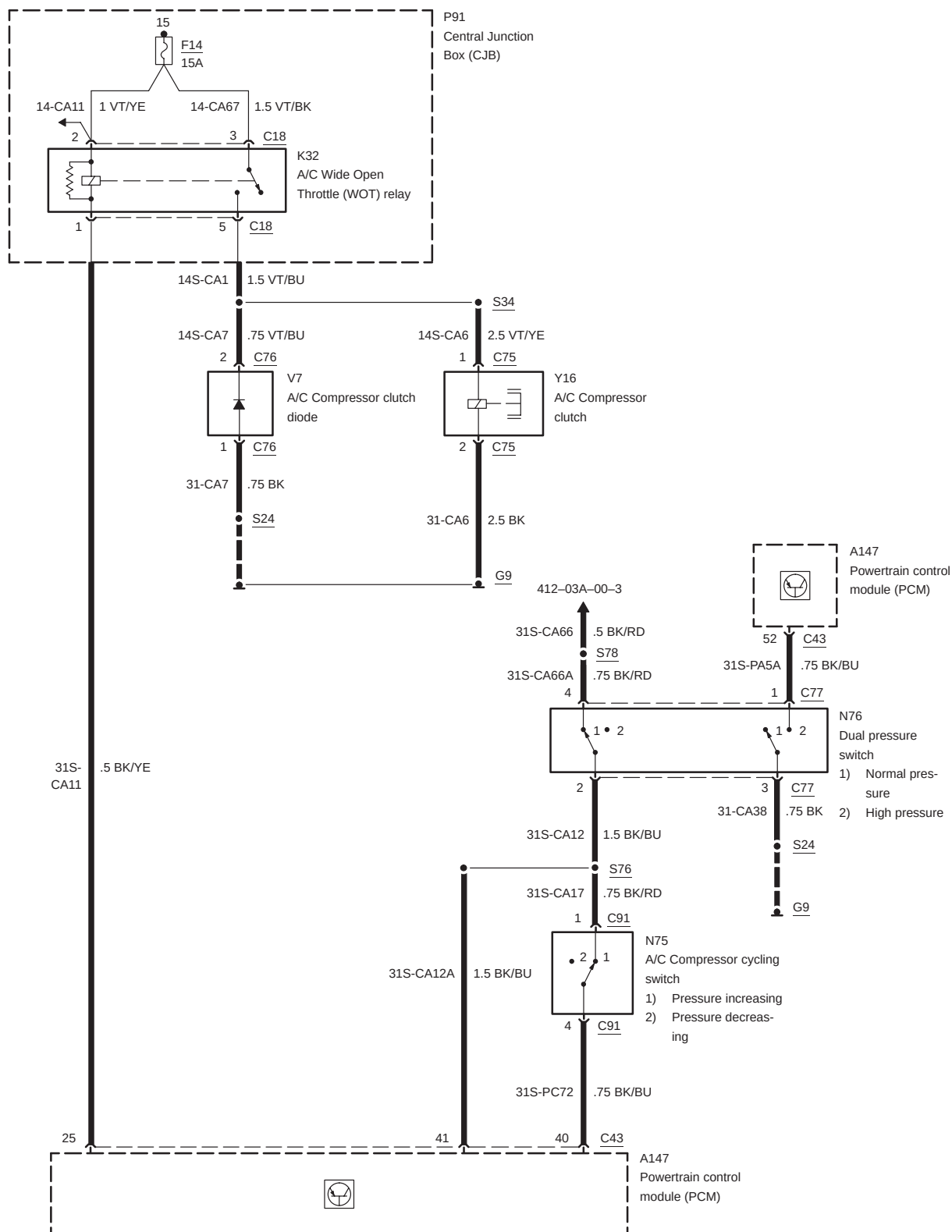


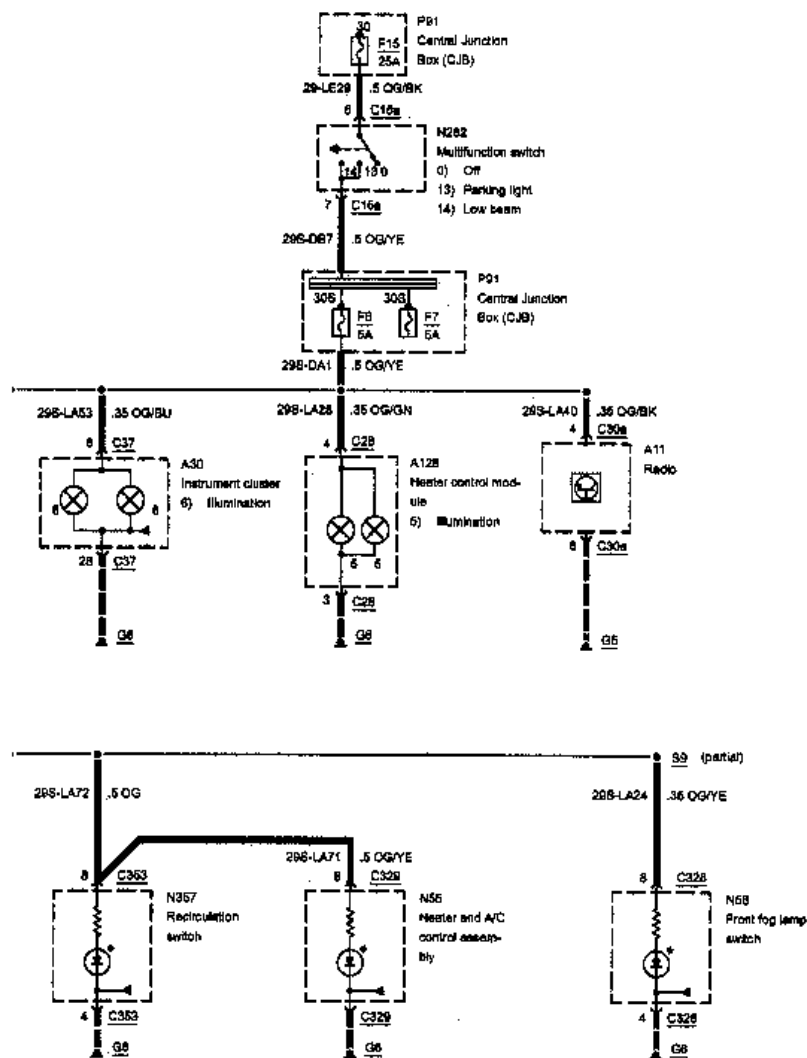
Air Conditioning

412-03A-00

-3



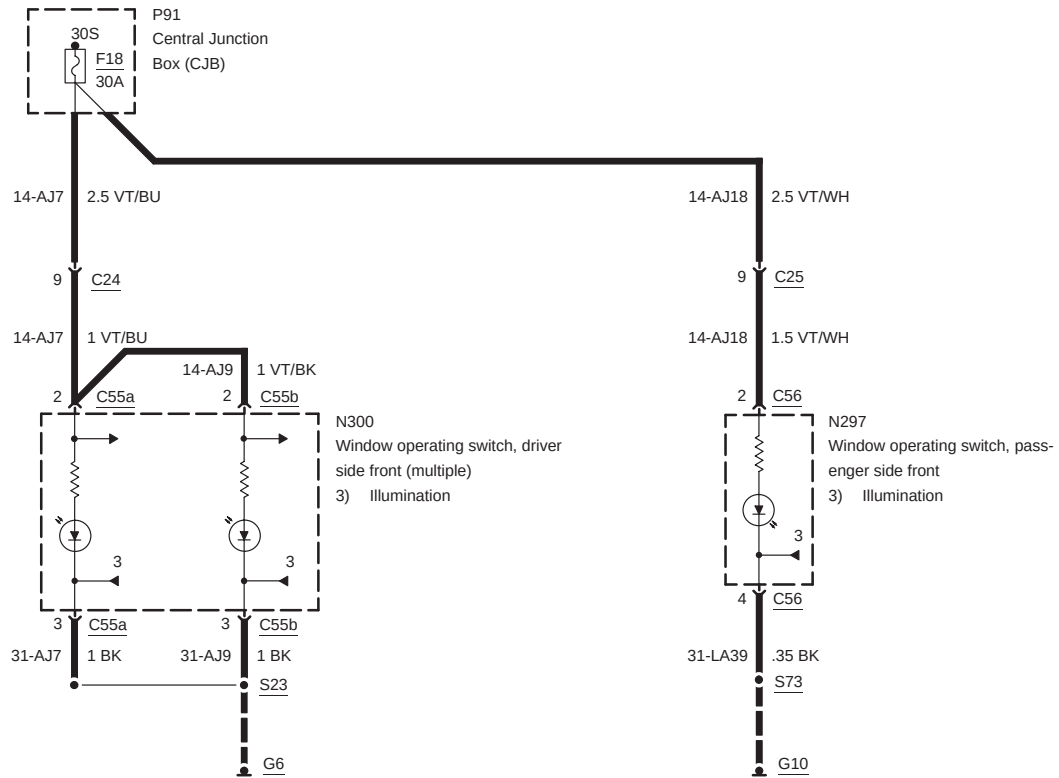


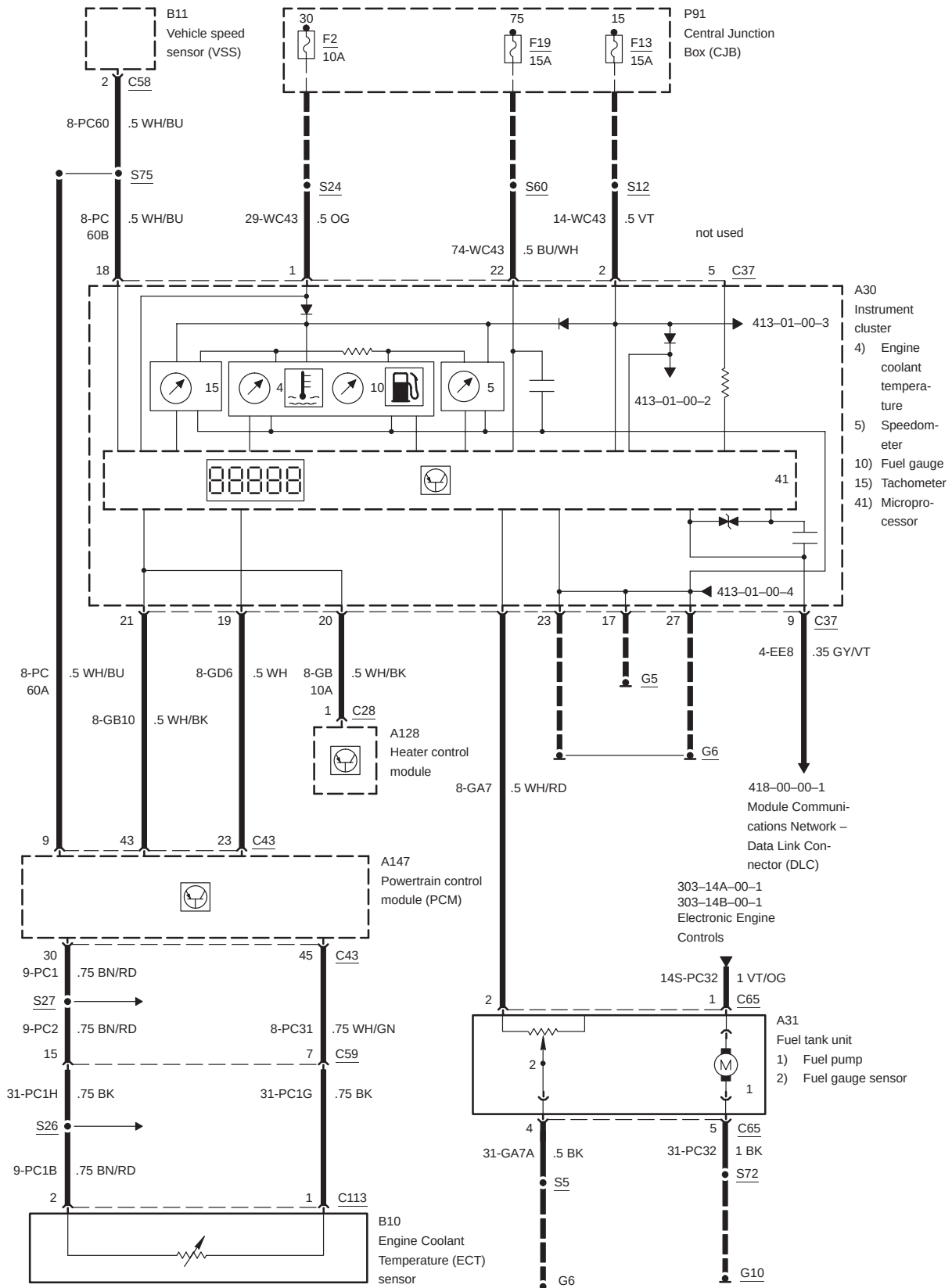


Instrument Cluster and Panel Illumination

413-00-00

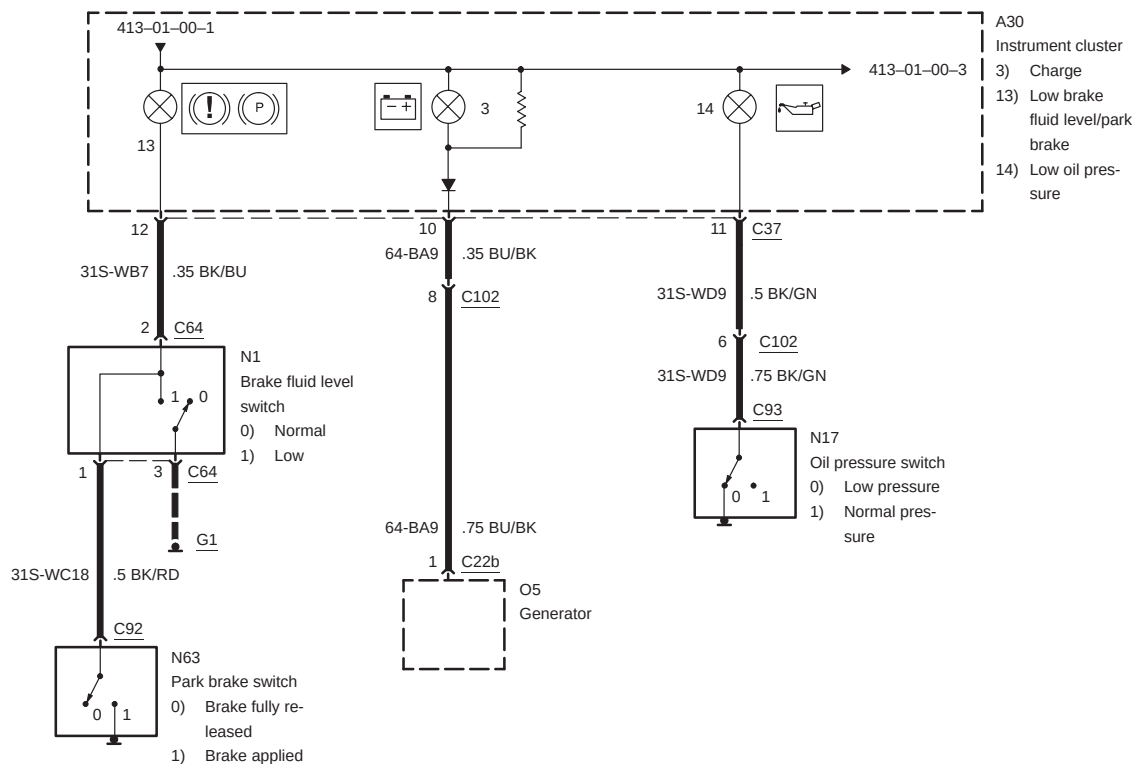
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Instrument Cluster

413-01-00

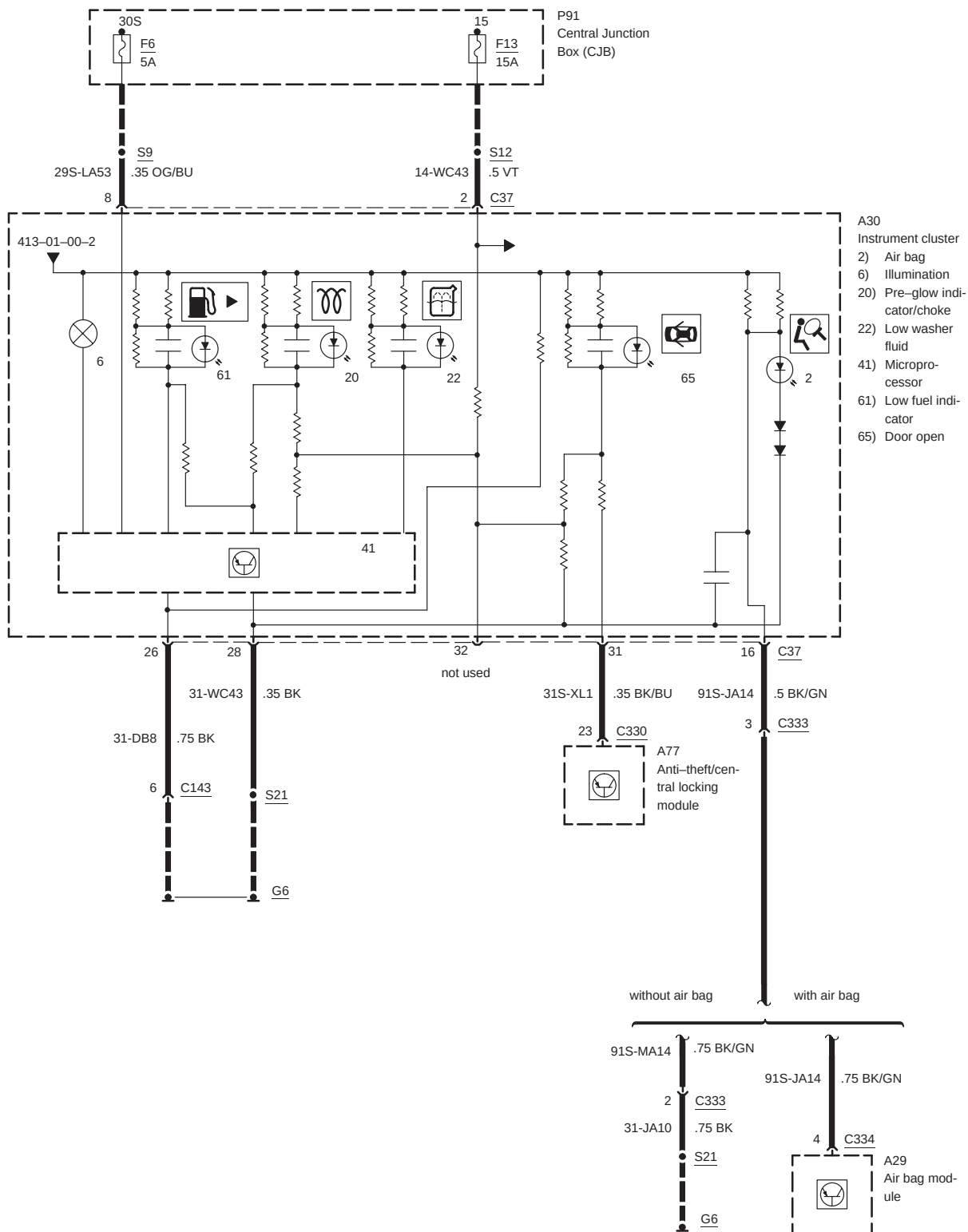


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Instrument Cluster

413-01-00

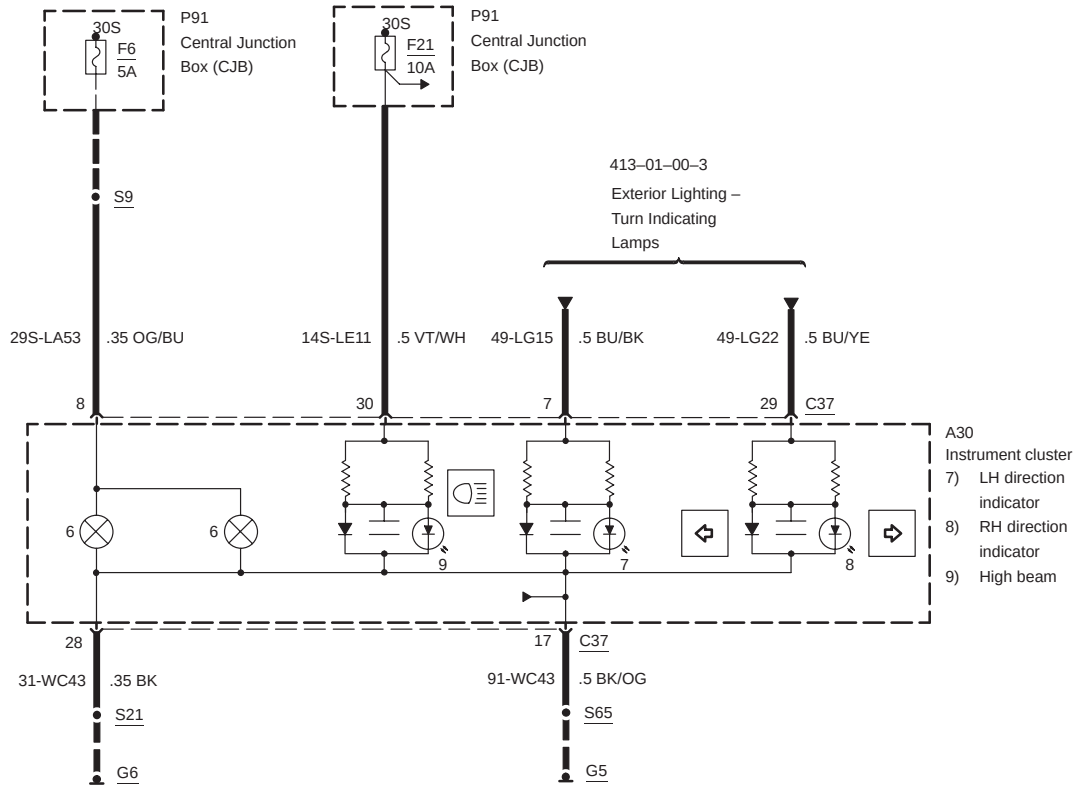
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Instrument Cluster

413-01-00

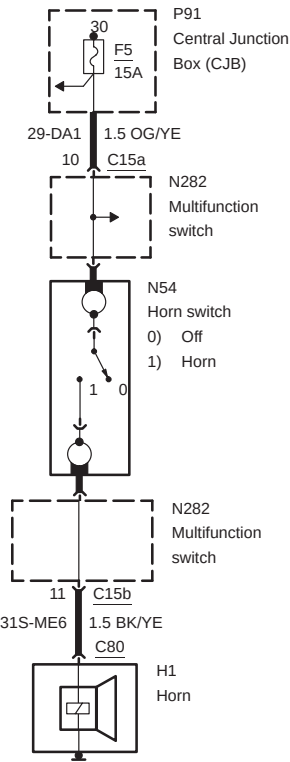
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Horn

413-06-00

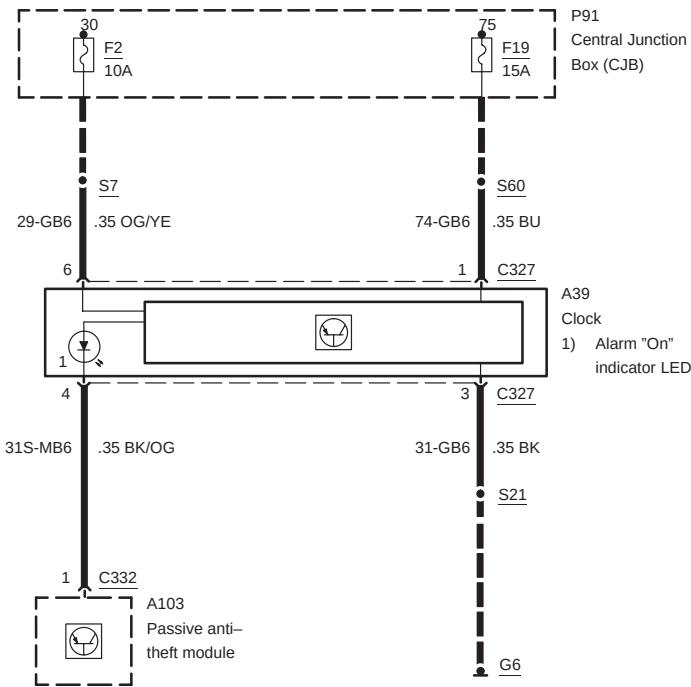
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Clock

413-07-00

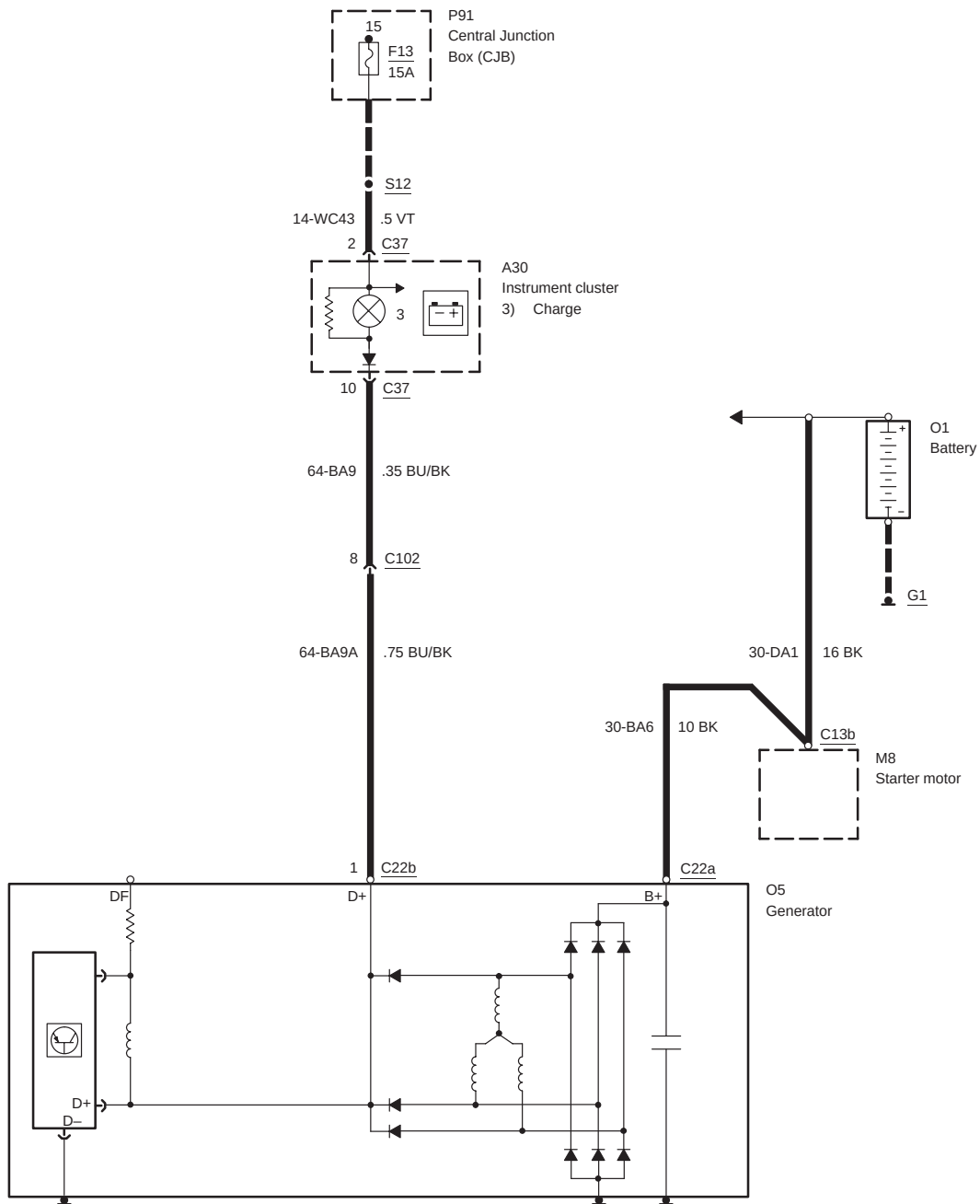
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Generator and Regulator

414-02-00

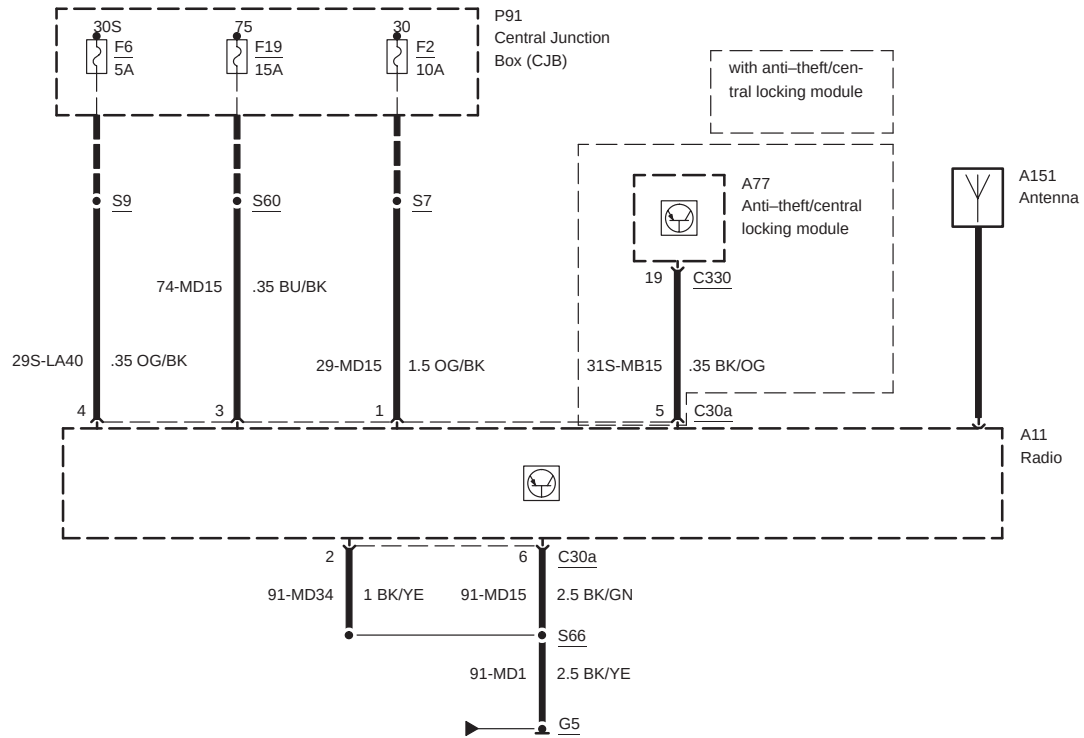
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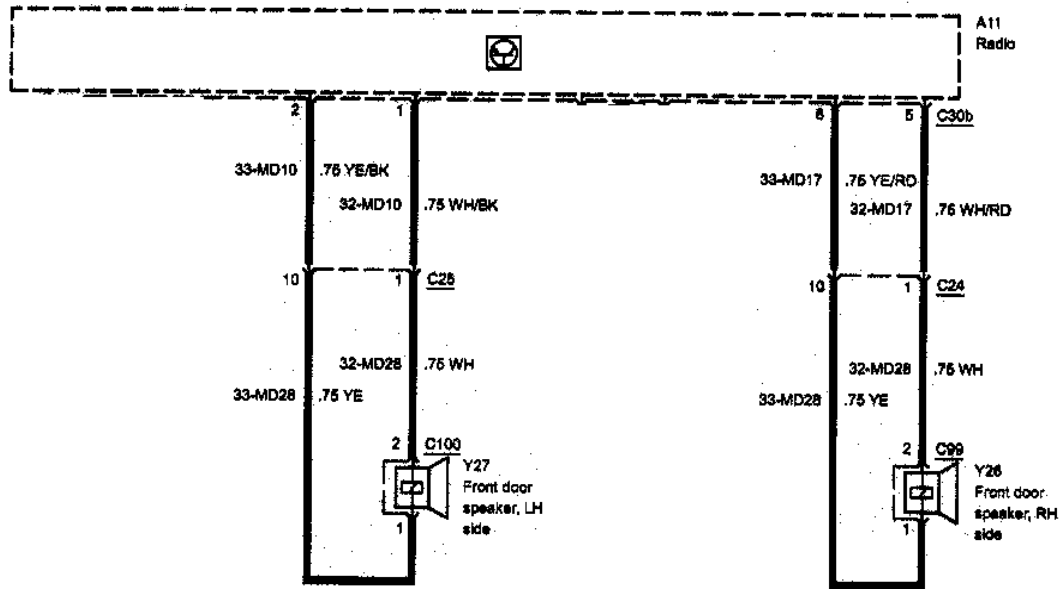


Audio Unit

415-01-00

-1



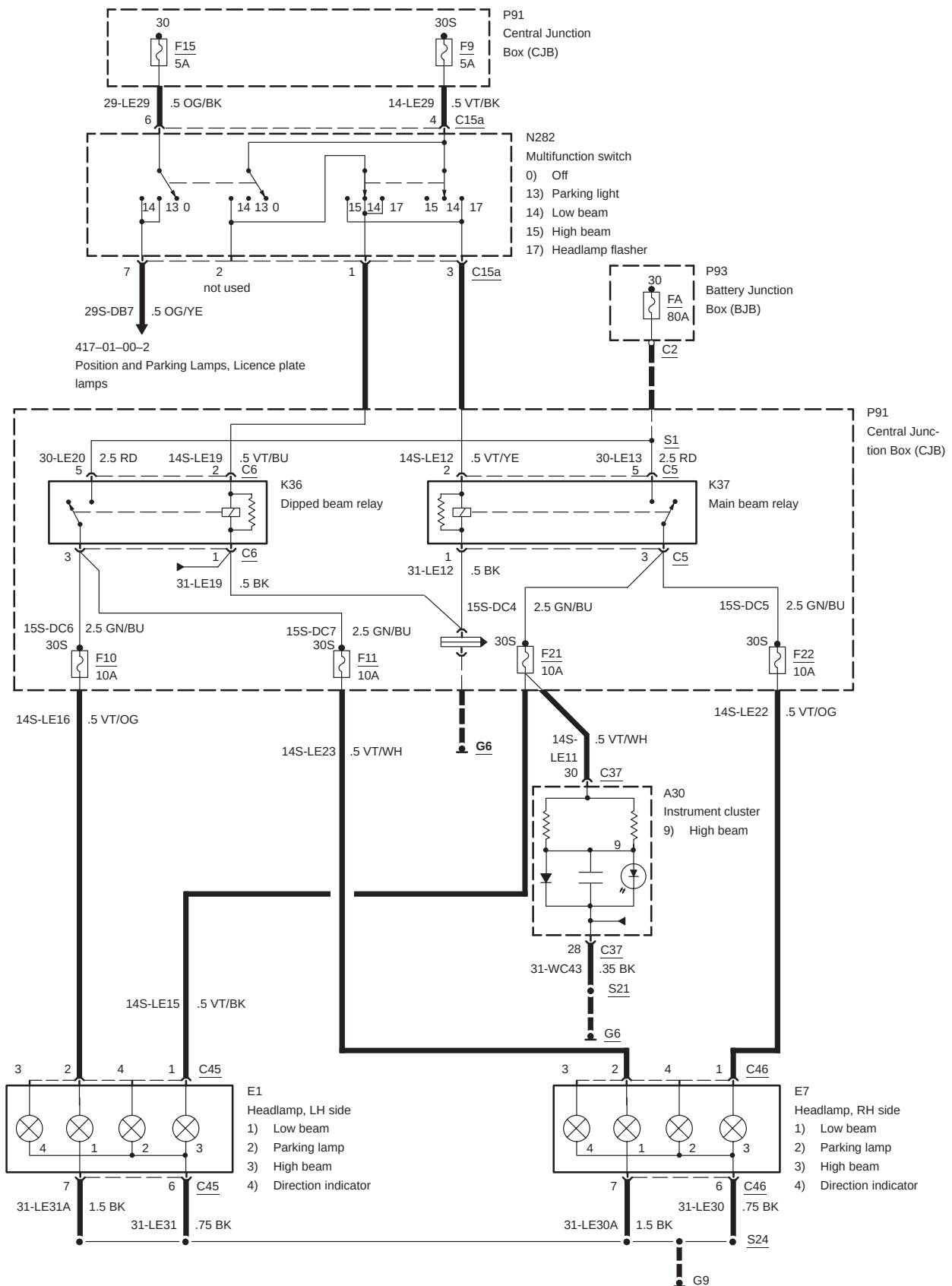


Exterior Lighting

417-01-00

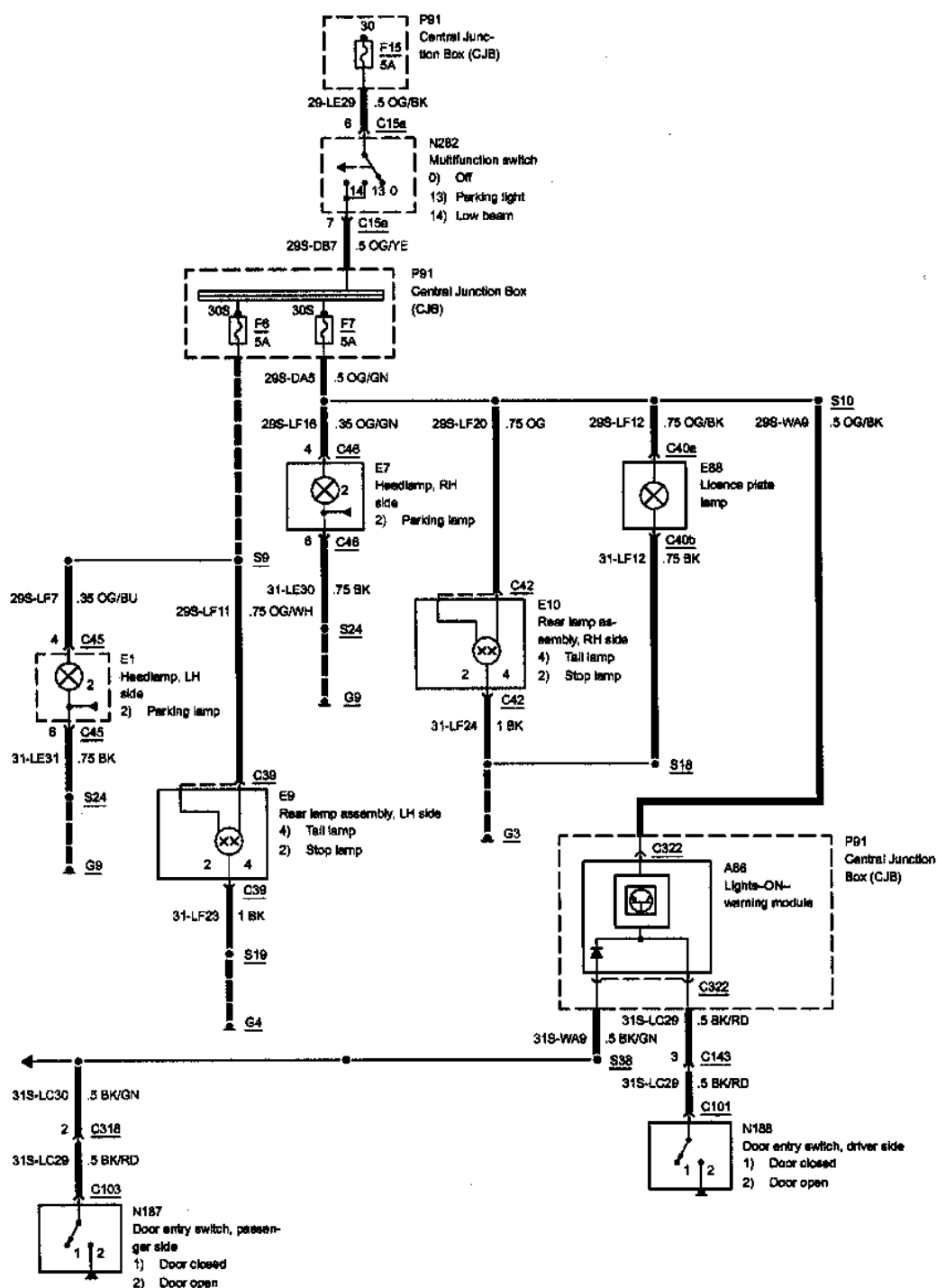
Headlamps

-1



Position and Parking Lamps, Licence plate lamps

-2

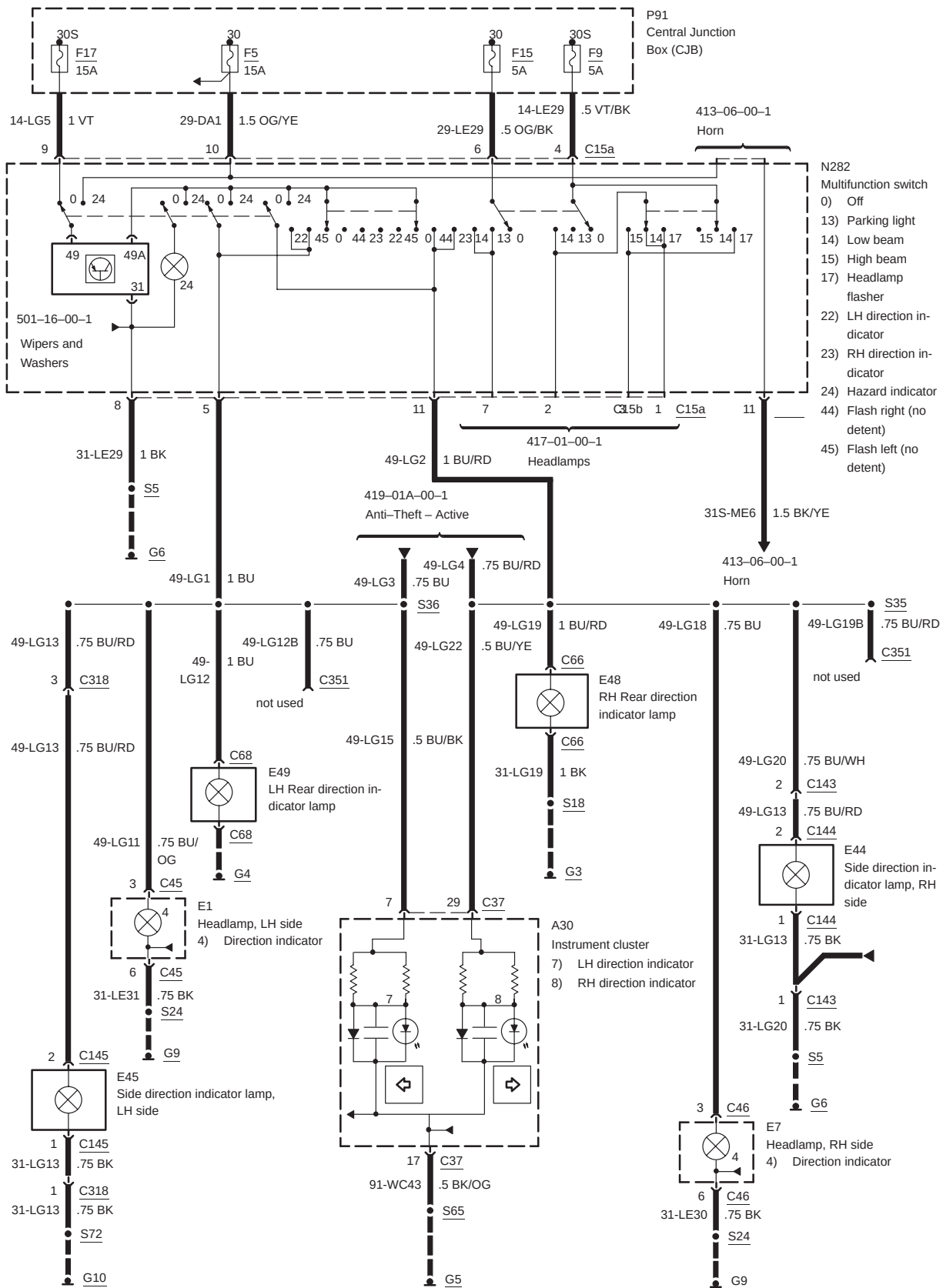


Exterior Lighting

417-01-00

Turn Indicating Lamps

-3

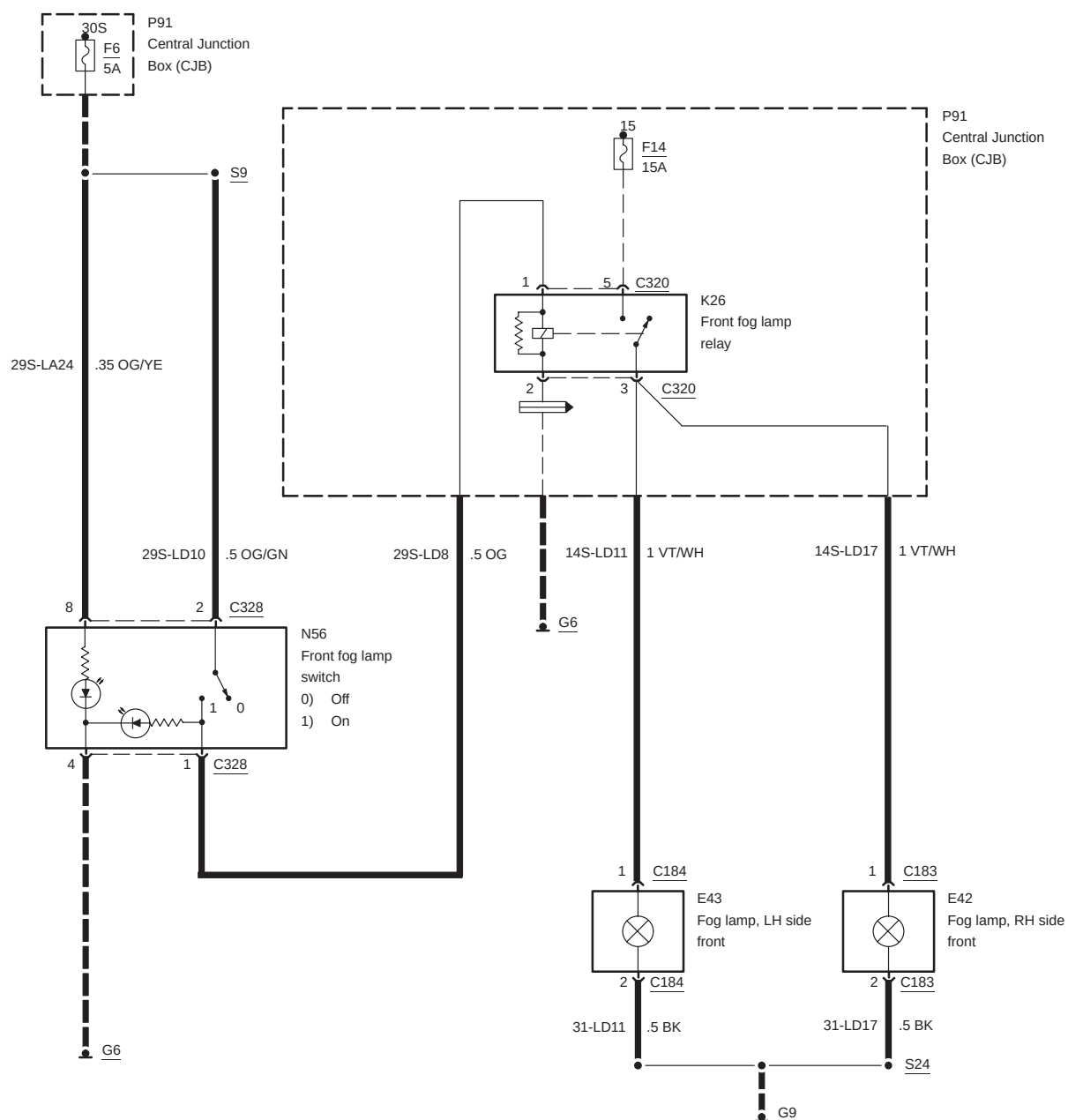


Exterior Lighting

417-01-00

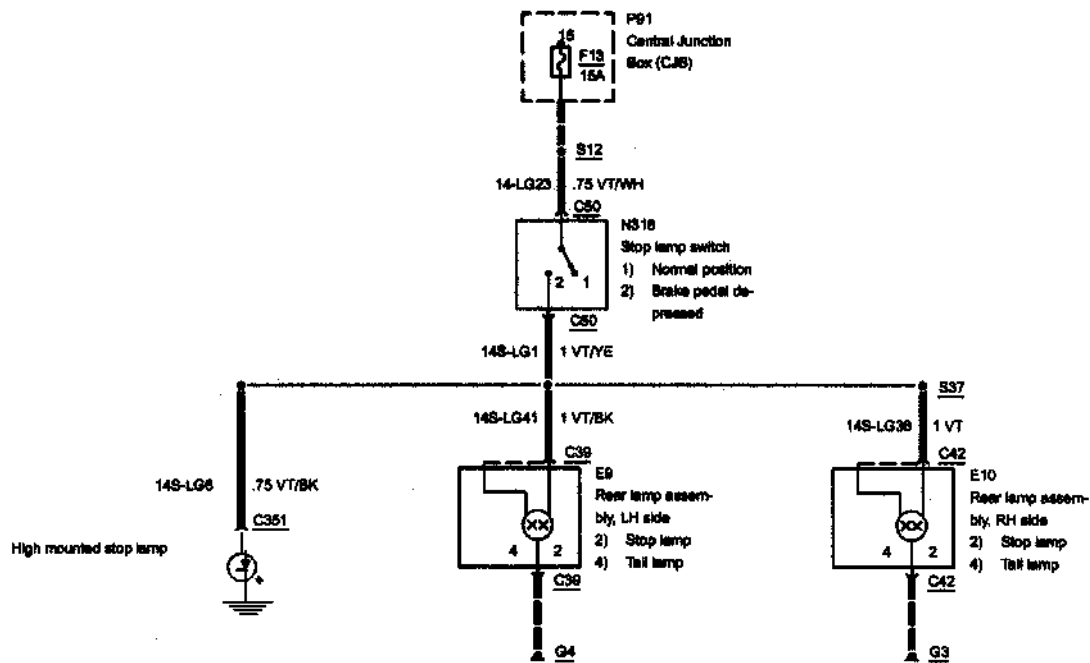
Front fog lamps

-4



Stop Lamps

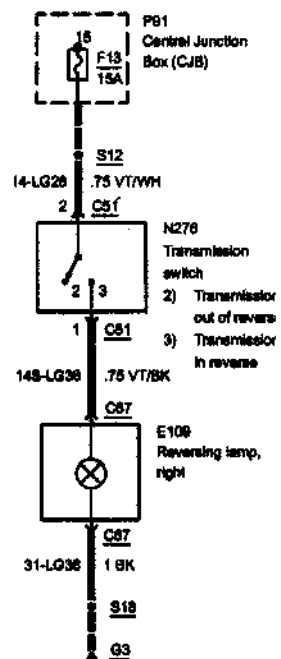
-5

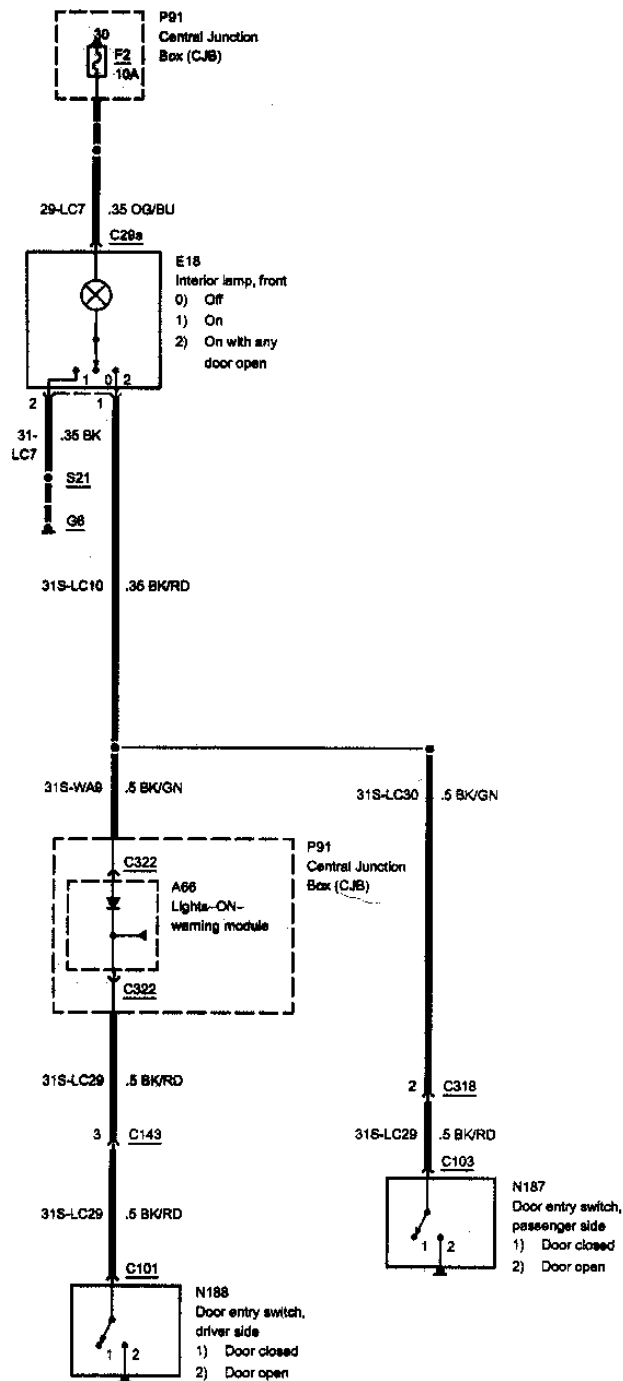


'02 BANTAM E.W.D PETROL

Reversing Lamps

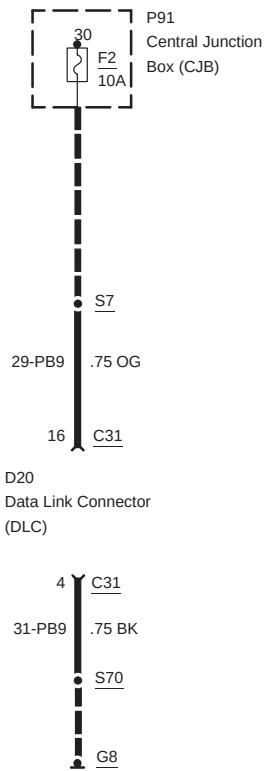
-6





Data link connector, pins 4 and 16

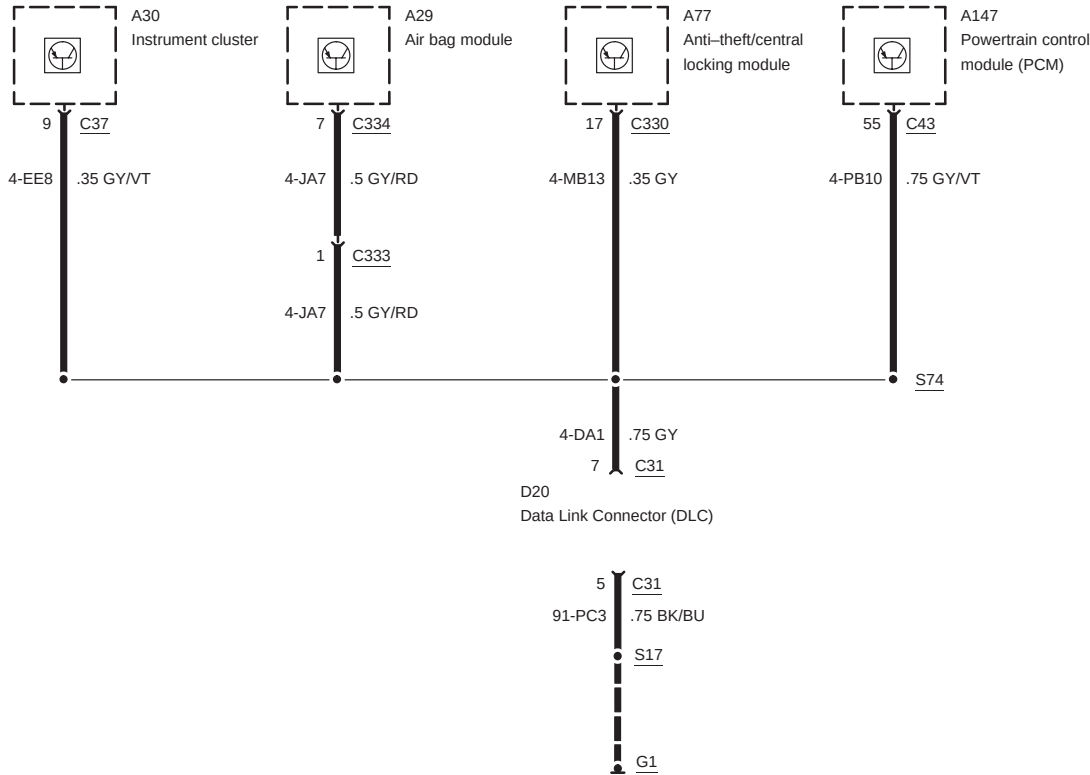
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'02 BANTAM E.W.D PETROL

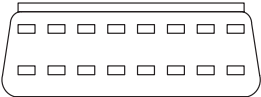
Data Link Connector (DLC), Pins 5 and 7

-2

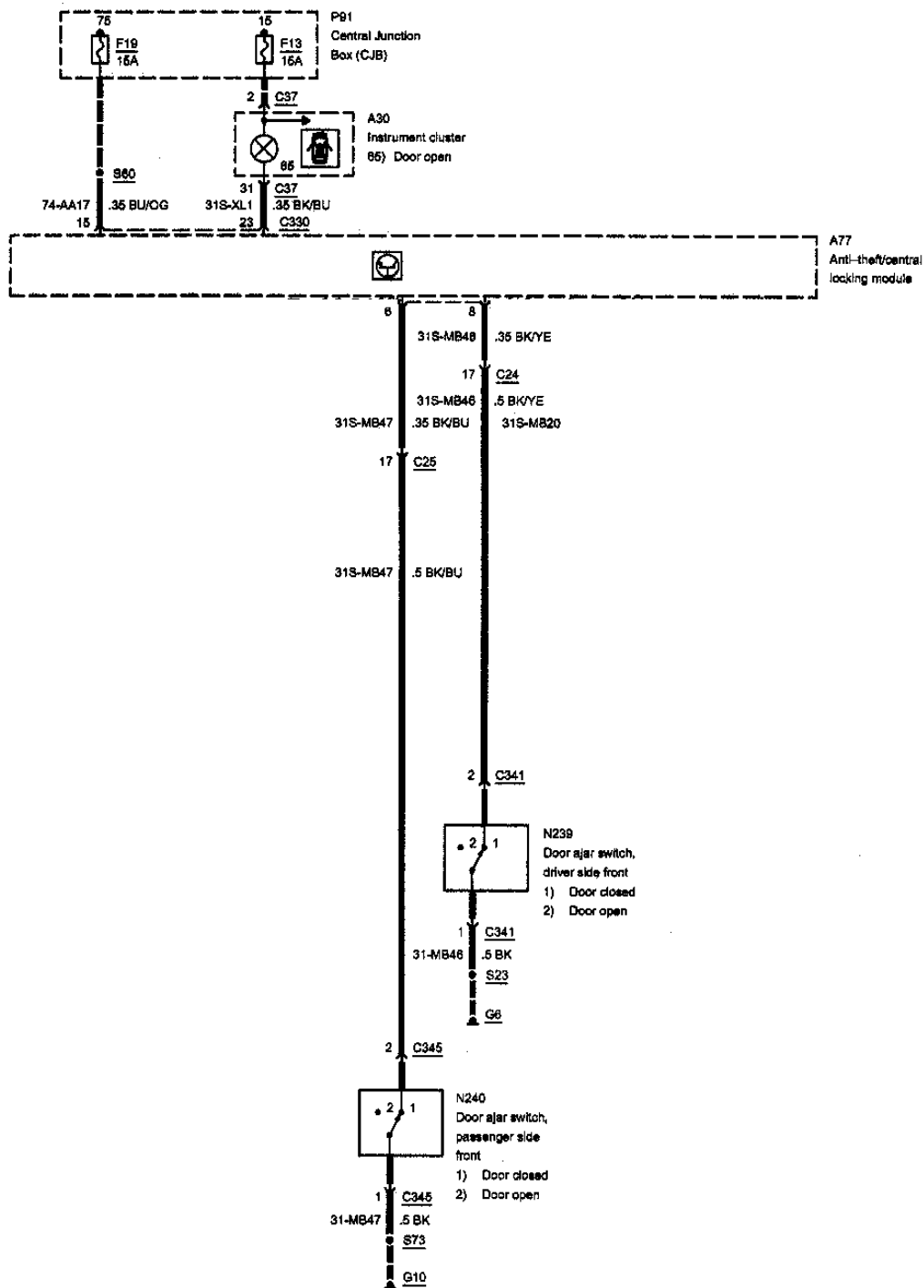


Data Link Connector (DLC)

C31
F16025



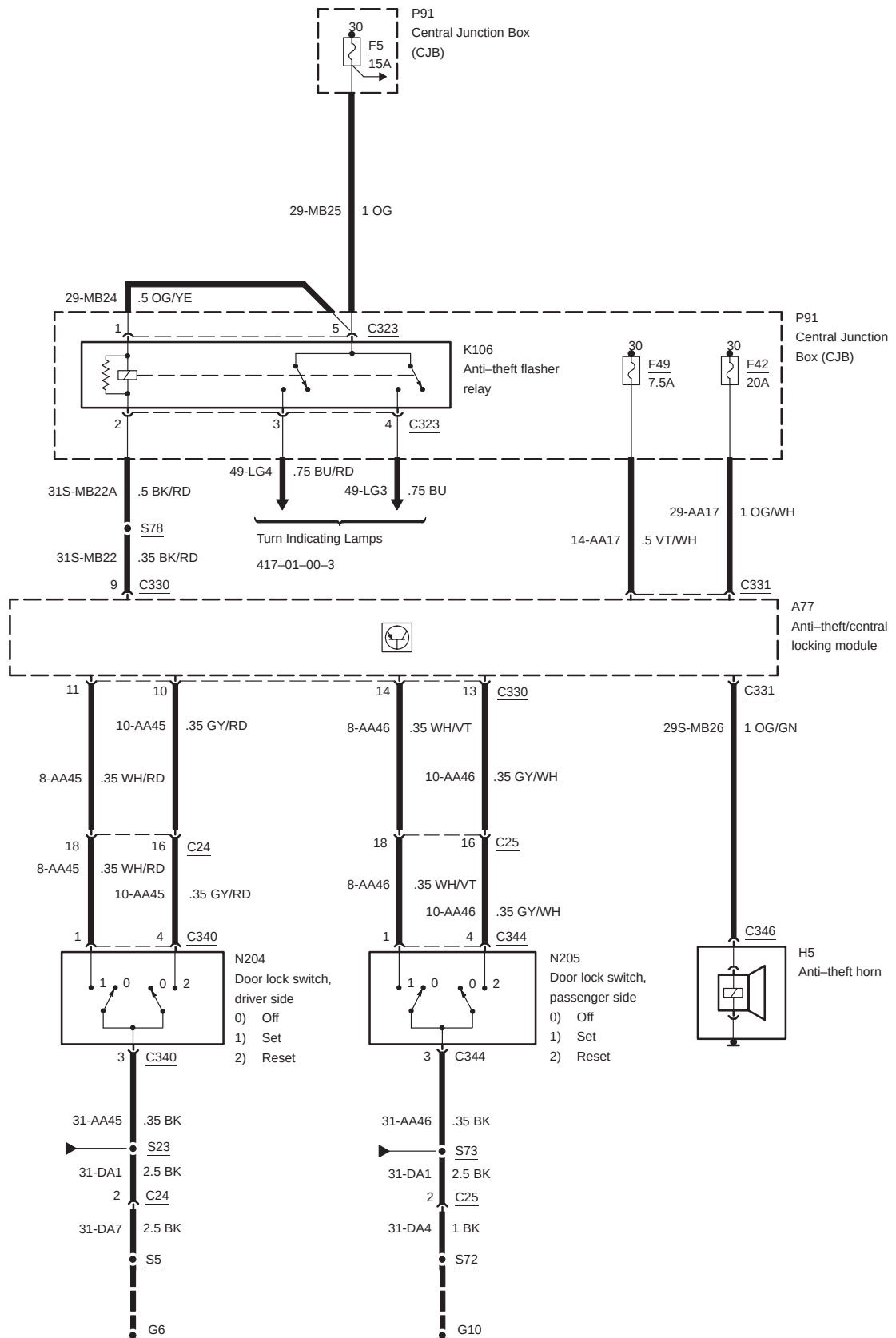
Pin number	Description	Wire colours
1	not used	
2	not used	
3	not used	
4	Chassis Ground	BK
5	Battery ground	BK/BU
6	not used	
7	K-Line ISO 9141	GY
8	not used	
9	not used	
10	not used	
11	not used	
12	not used	
13	not used	
14	not used	
15	not used	
16	Battery Power / switched power	OG



Anti-Theft – Active

419-01A-00

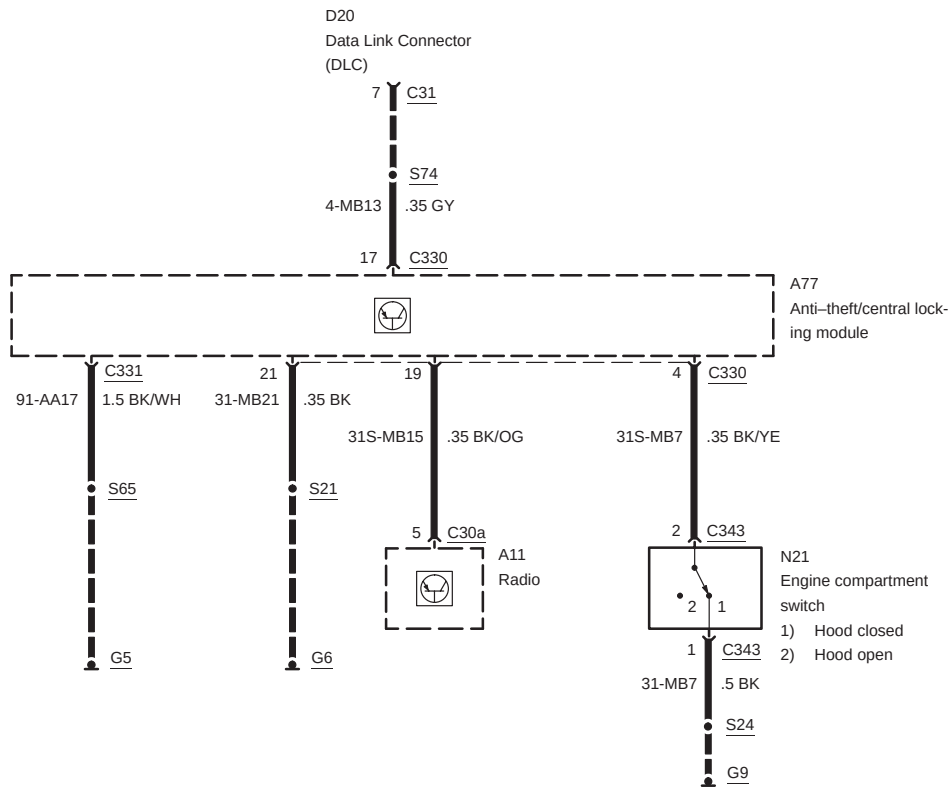
-2



Anti-Theft – Active

419-01A-00

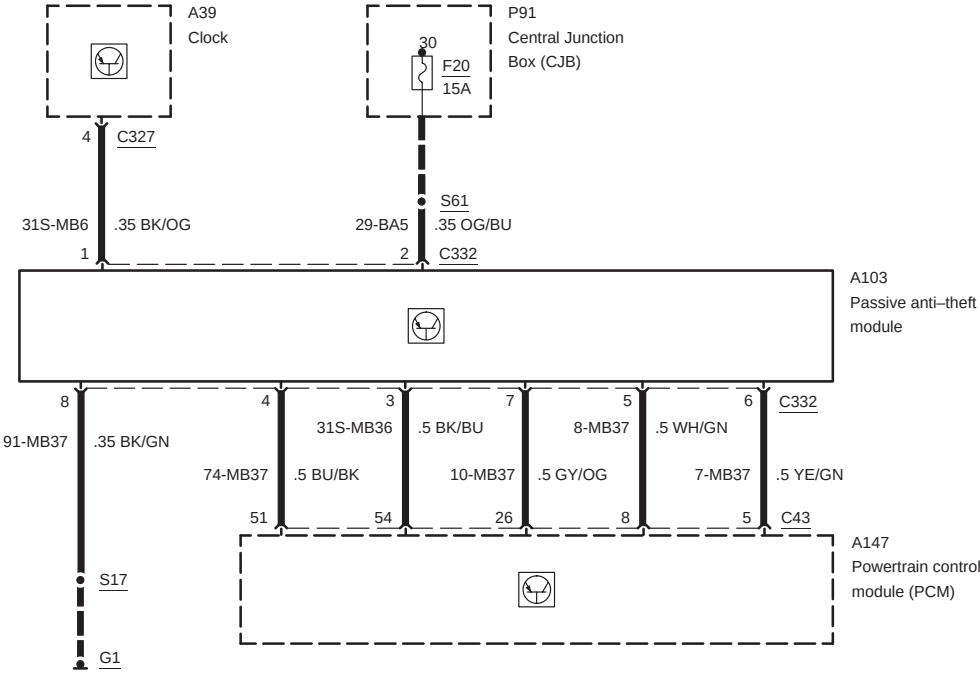
-3



Anti-Theft – Passive

419-01B-00

-1

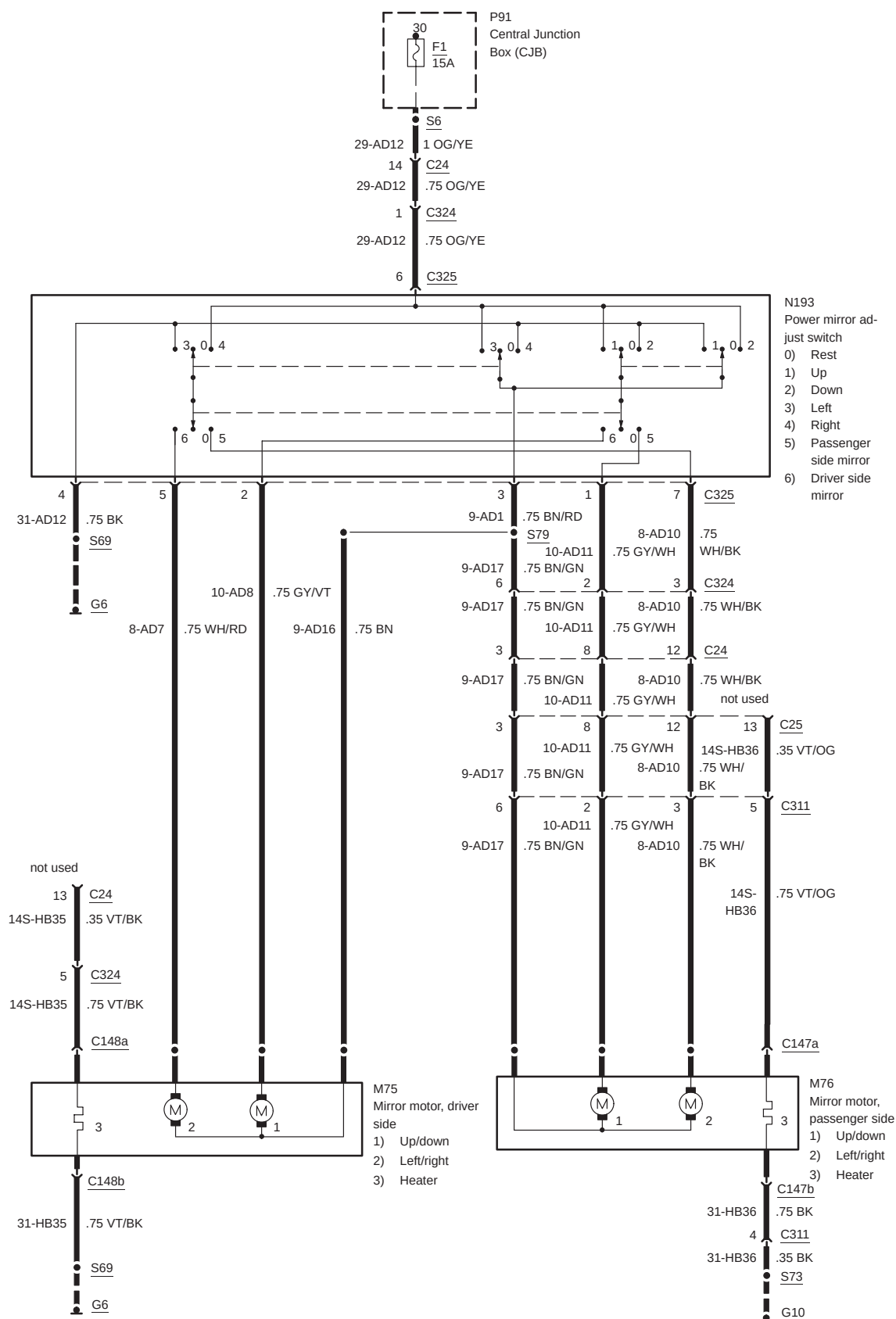


Body and Paint

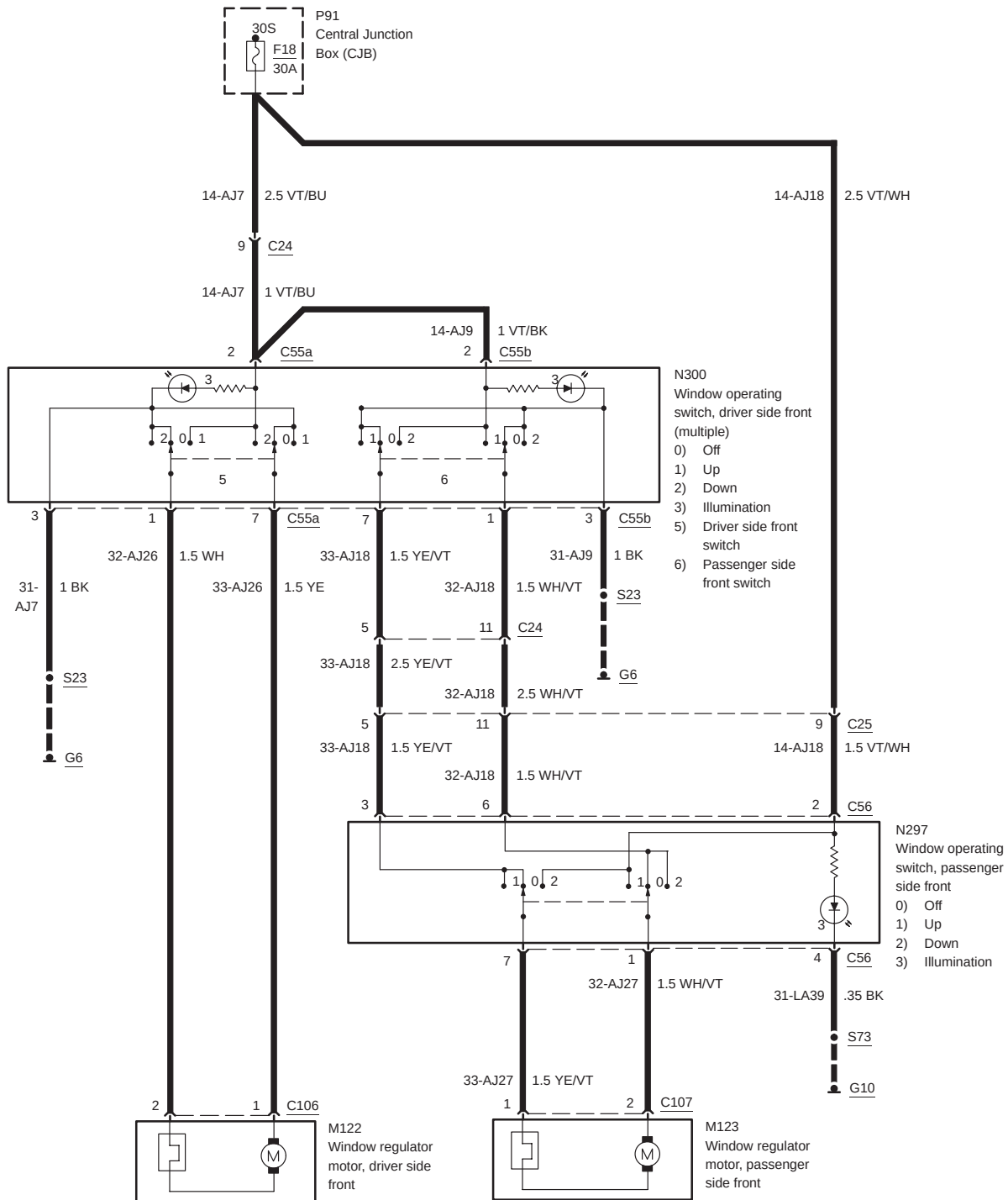
Group 5

Chassis

Rear View Mirrors	501-09-00-1
Glass, Frames and Mechanisms – Power windows	501-11-00-1
Instrument Panel and Console	501-12-00-1
Handles, Locks, Latches and Entry Systems	501-14-00-1/2
Wipers and Washers	501-16-00-1
Occupant Restraints – Active	501-20A-00-1
Occupant Restraints – Passive	501-20B-00-1



Power windows

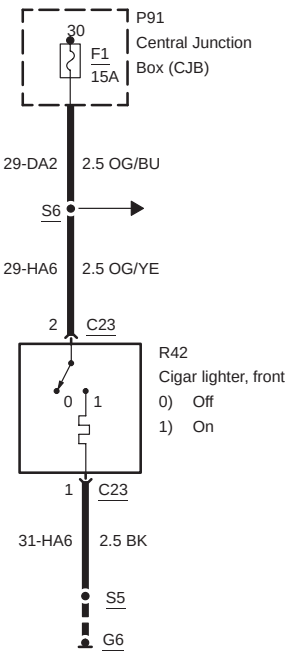


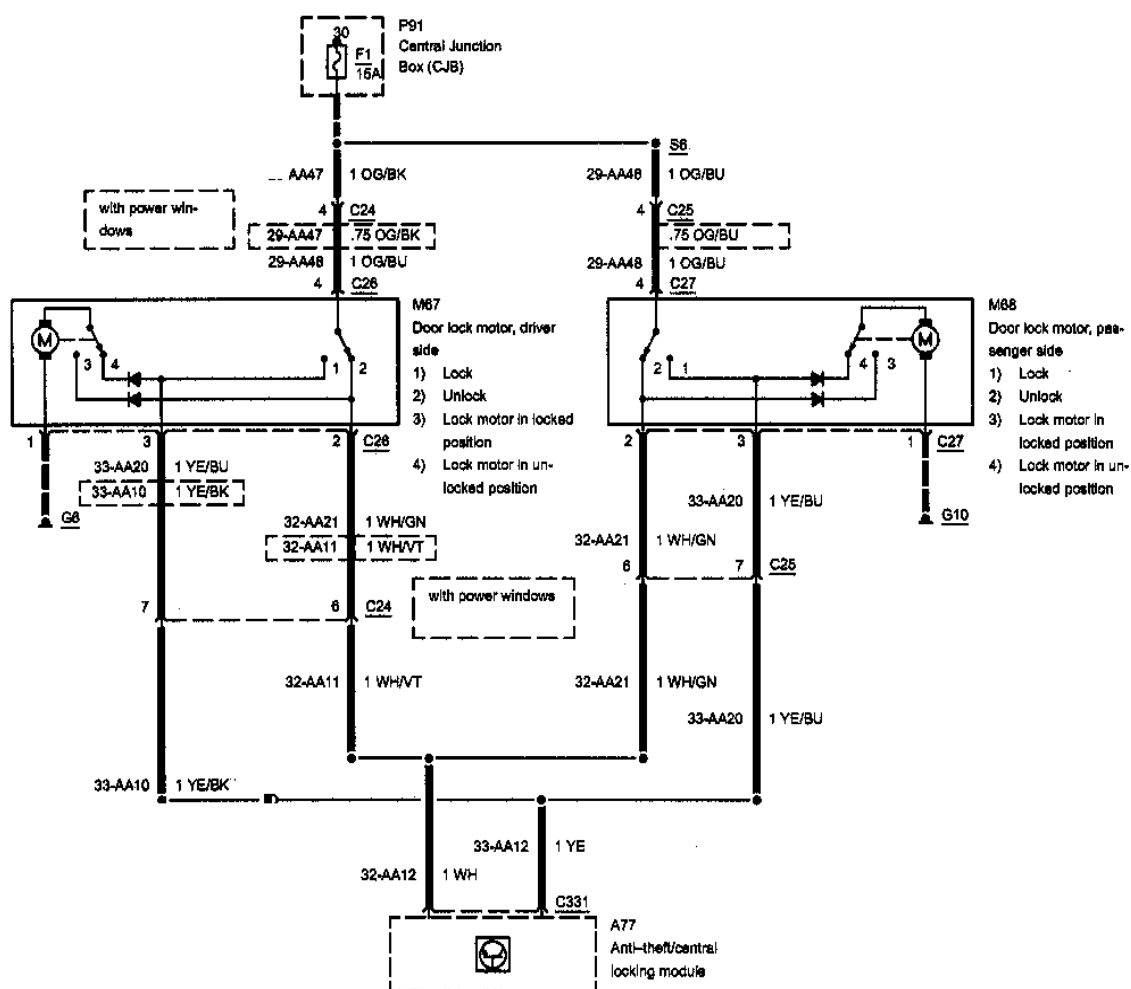
Instrument Panel and Console

501-12-00

Cigar lighter, front

-1

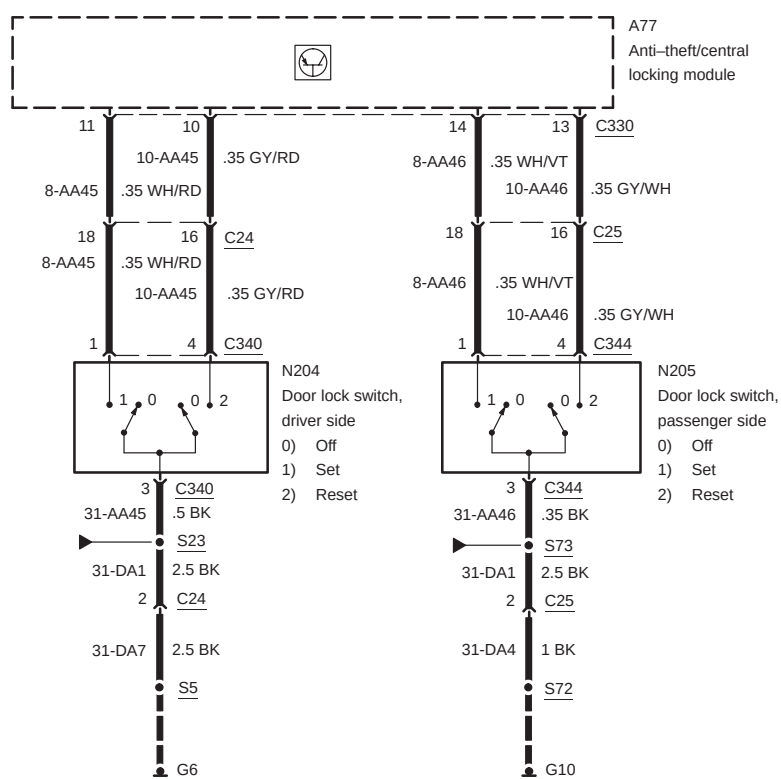




Handles, Locks, Latches and Entry Systems

501-14-00

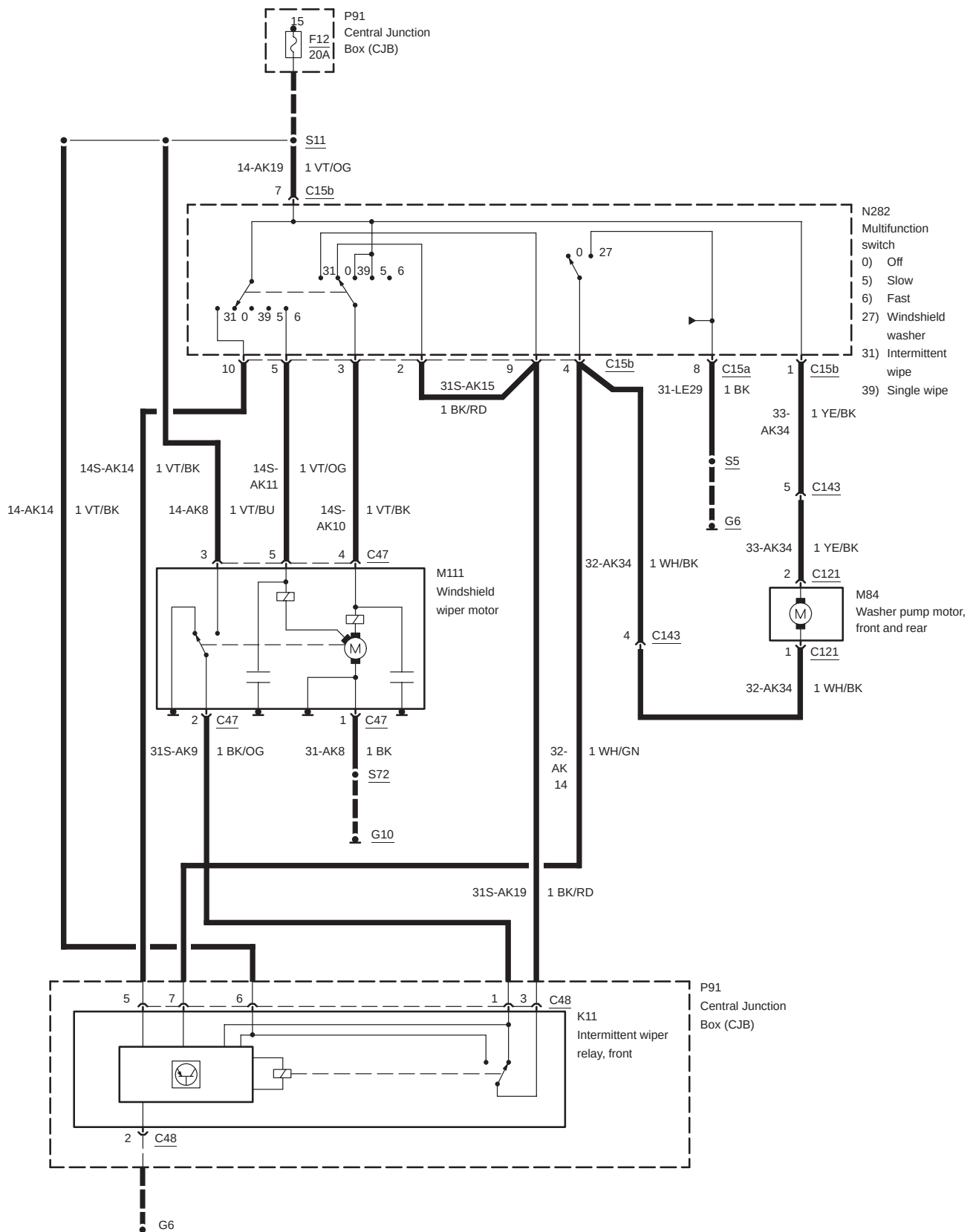
-2



Wipers and Washers

501-16-00

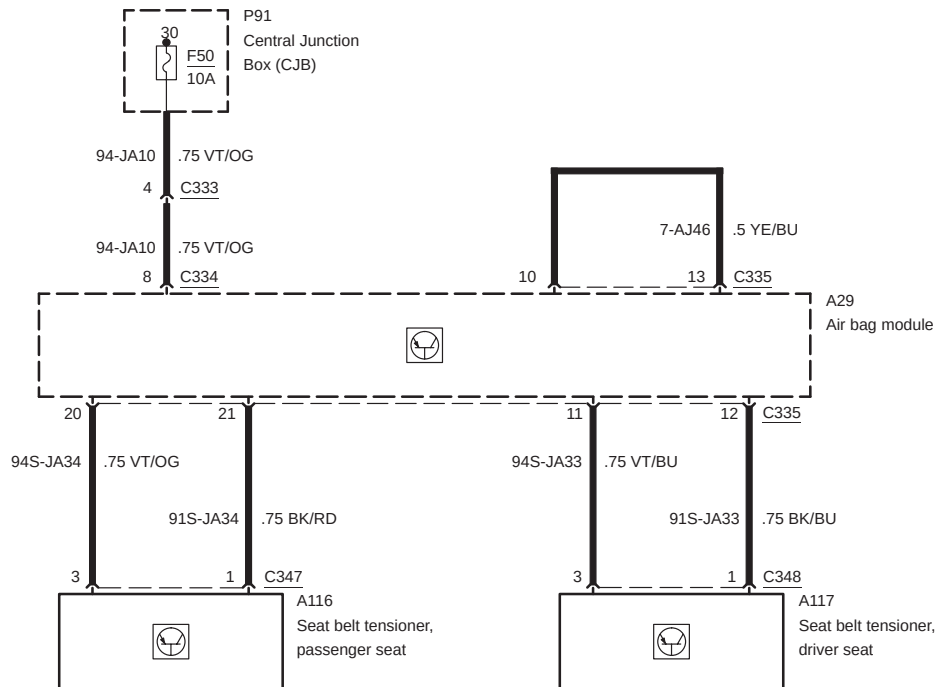
-1



Occupant Restraints – Active

501-20A-00

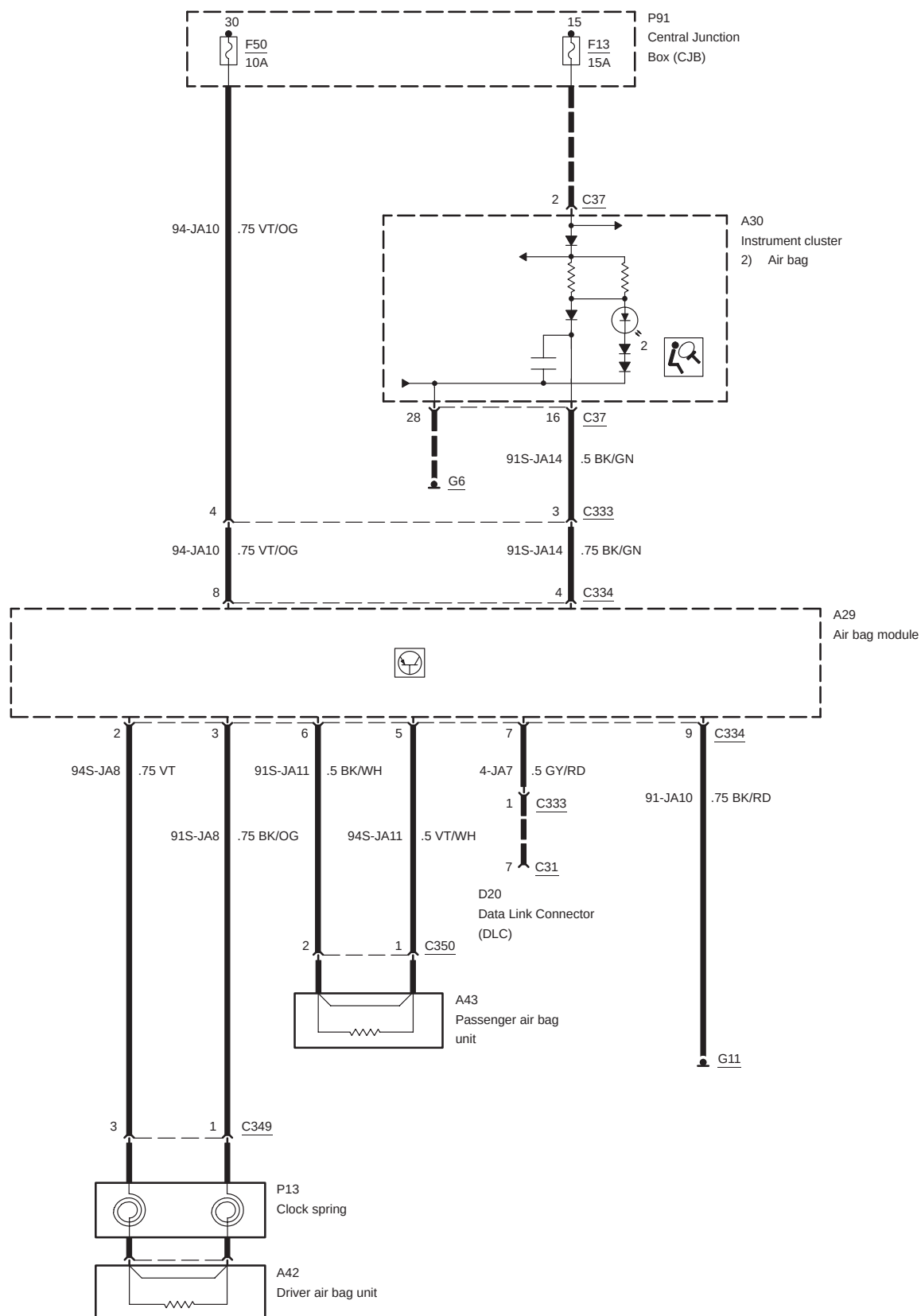
-1



Occupant Restraints – Passive

501-20B-00

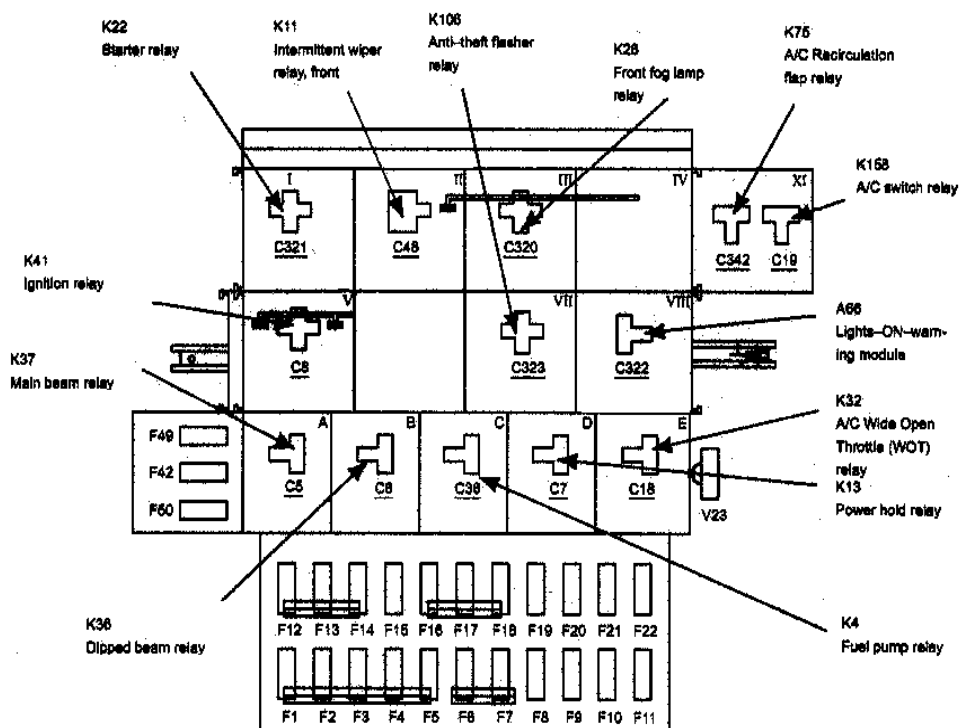
-1



Group **7**

General Wiring Information

Fuse and Relay Information	700-01-00-1/4
Power Distribution	700-02-00-1/3
Fuse Details	700-03-00-1/14
Ground Distribution	700-04-00-1/14
Component Location Charts	700-05-00-1/16
Component Location Views	700-06-00-1/22
Connector Views	700-07-00-1/24
Component Testing	700-09-00-1/14



700-01-00

Fuse and Relay Information

700-01-00

Battery Junction Box (BJB)

-2

Group	Description	Fuse number									
		FA	FB	FC							
		80A	80A	60A							
303-03-00	Engine Cooling			●							
303-04A-00	Fuel Charging and Controls – 1,3 l										
303-04B-00	Fuel Charging and Controls – 1,6 l										
303-06-00	Starting System	●									
303-07A-00	Engine Ignition – 1,3 l										
303-07B-00	Engine Ignition – 1,6 l										
303-14A-00	Electronic Engine Controls – 1,3 l	●									
303-14B-00	Electronic Engine Controls – 1,6 l	●									
412-02-00	Heating and Ventilation										
412-03A-00	Air Conditioning			●							
413-00-00	Instrument Cluster and Panel Illumination										
413-01-00	Instrument Cluster										
413-06-00	Horn										
413-07-00	Clock										
414-02-00	Generator and Regulator										
415-01-00	Audio Unit										
415-03-00	Speakers										
417-01-00	Exterior Lighting	●									
417-02-00	Interior Lighting										
418-00-00	Module Communications Network										
419-01A-00	Anti-Theft – Active										
419-01B-00	Anti-Theft – Passive										
501-09-00	Rear View Mirrors										
501-11-00	Glass, Frames and Mechanisms										
501-12-00	Instrument Panel and Console										
501-14-00	Handles, Locks, Latches and Entry Systems										
501-16-00	Wipers and Washers										
501-20A-00	Occupant Restraints – Active										
501-20B-00	Occupant Restraints – Passive – Supplemental Air Bag System										
		FA	FB	FC							
		80A	80A	60A							

700-01-00

Fuse and Relay Information

700-01-00

Central Junction Box (CJB)

-3

Group	Description	Fuse number										
		1	2	3	4	5	6	7	8	9	10	11
		15A	10A	20A	10A	15A	5A	5A	10A	5A	10A	10A
303-03-00	Engine Cooling											
303-04A-00	Fuel Charging and Controls – 1,3 l											
303-04B-00	Fuel Charging and Controls – 1,6 l											
303-06-00	Starting System											
303-07A-00	Engine Ignition – 1,3 l								●			
303-07B-00	Engine Ignition – 1,6 l								●			
303-14A-00	Electronic Engine Controls – 1,3 l				●				●			
303-14B-00	Electronic Engine Controls – 1,6 l				●				●			
412-02-00	Heating and Ventilation		●				●					
412-03A-00	Air Conditioning		●				●					
413-00-00	Instrument Cluster and Panel Illumination						●					
413-01-00	Instrument Cluster		●				●					
413-06-00	Horn					●						
413-07-00	Clock		●									
414-02-00	Generator and Regulator											
415-01-00	Audio Unit		●				●					
415-03-00	Speakers											
417-01-00	Exterior Lighting					●	●	●		●	●	●
417-02-00	Interior Lighting		●									
418-00-00	Module Communications Network		●									
419-01A-00	Anti-Theft – Active					●						
419-01B-00	Anti-Theft – Passive											
501-09-00	Rear View Mirrors	●										
501-11-00	Glass, Frames and Mechanisms			●			●					
501-12-00	Instrument Panel and Console	●										
501-14-00	Handles, Locks, Latches and Entry Systems	●										
501-16-00	Wipers and Washers											
501-20A-00	Occupant Restraints – Active											
501-20B-00	Occupant Restraints – Passive – Supplemental Air Bag System											
		1	2	3	4	5	6	7	8	9	10	11
		15A	10A	20A	10A	15A	5A	5A	10A	5A	10A	10A

Fuse and Relay Information

700-01-00

Central Junction Box (CJB)

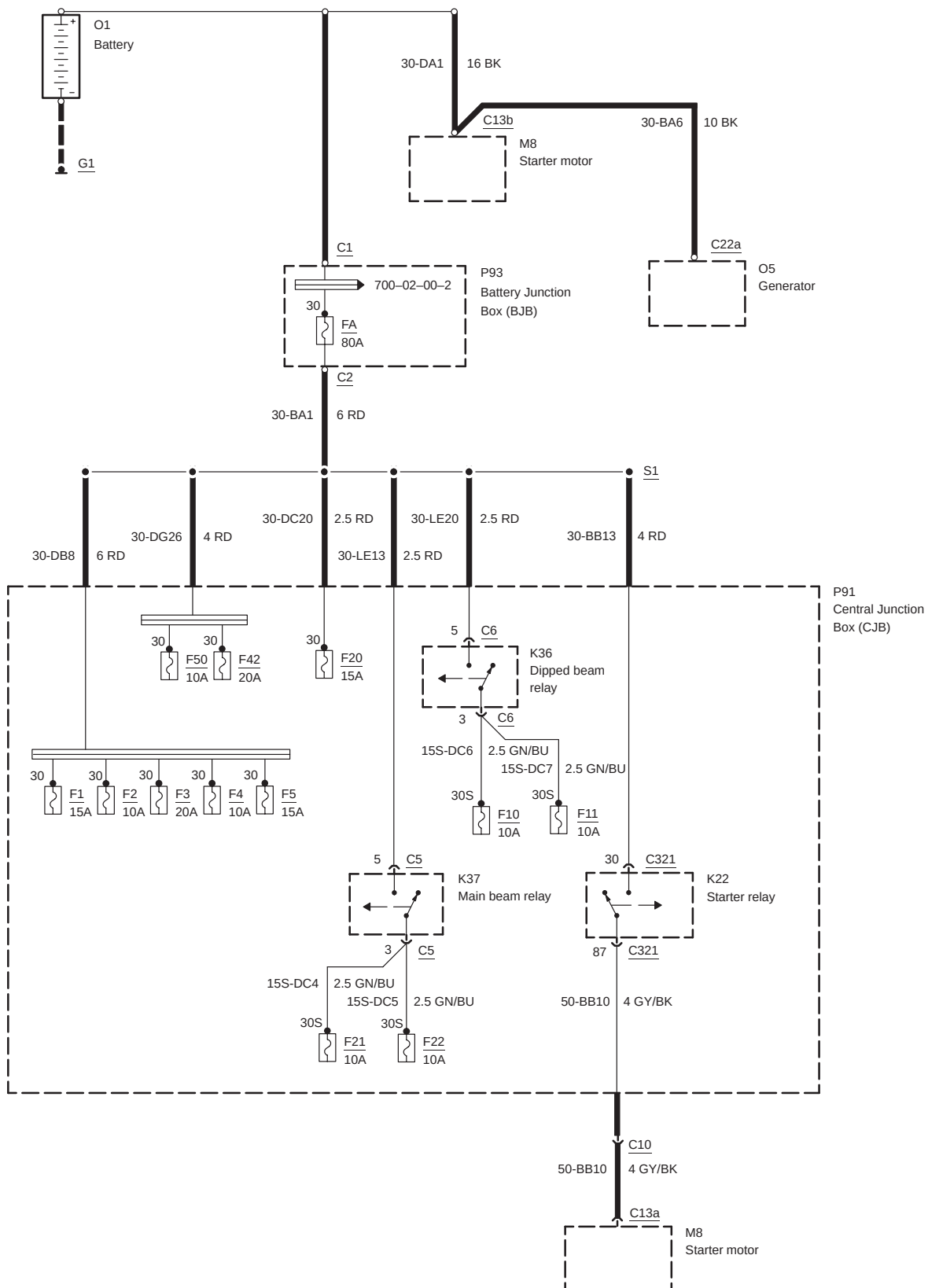
-4

Fuse number															
12	13	14	15	16	17	18	19	20	21	22	42	49	50		
20A	15A	15A	5A	30A	15A	30A	15A	15A	10A	10A	20A	7.5A	10A	Group	
								●							303-03-00
								●							303-04A-00
								●							303-04B-00
															303-06-00
															303-07A-00
															303-07B-00
								●							303-14A-00
								●							303-14B-00
	●			●											412-02-00
	●	●		●				●							412-03A-00
			●			●									413-00-00
	●						●		●						413-01-00
															413-06-00
							●								413-07-00
	●														414-02-00
							●								415-01-00
															415-03-00
	●	●	●		●				●	●					417-01-00
															417-02-00
															418-00-00
	●						●				●	●			419-01A-00
								●							419-01B-00
															501-09-00
	●					●									501-11-00
															501-12-00
															501-14-00
●															501-16-00
													●		501-20A-00
	●												●		501-20B-00
12	13	14	15	16	17	18	19	20	21	22	42	49	50		
20A	15A	15A	5A	30A	15A	30A	15A	15A	10A	10A	20A	7.5A	10A		

Power Distribution

700-02-00

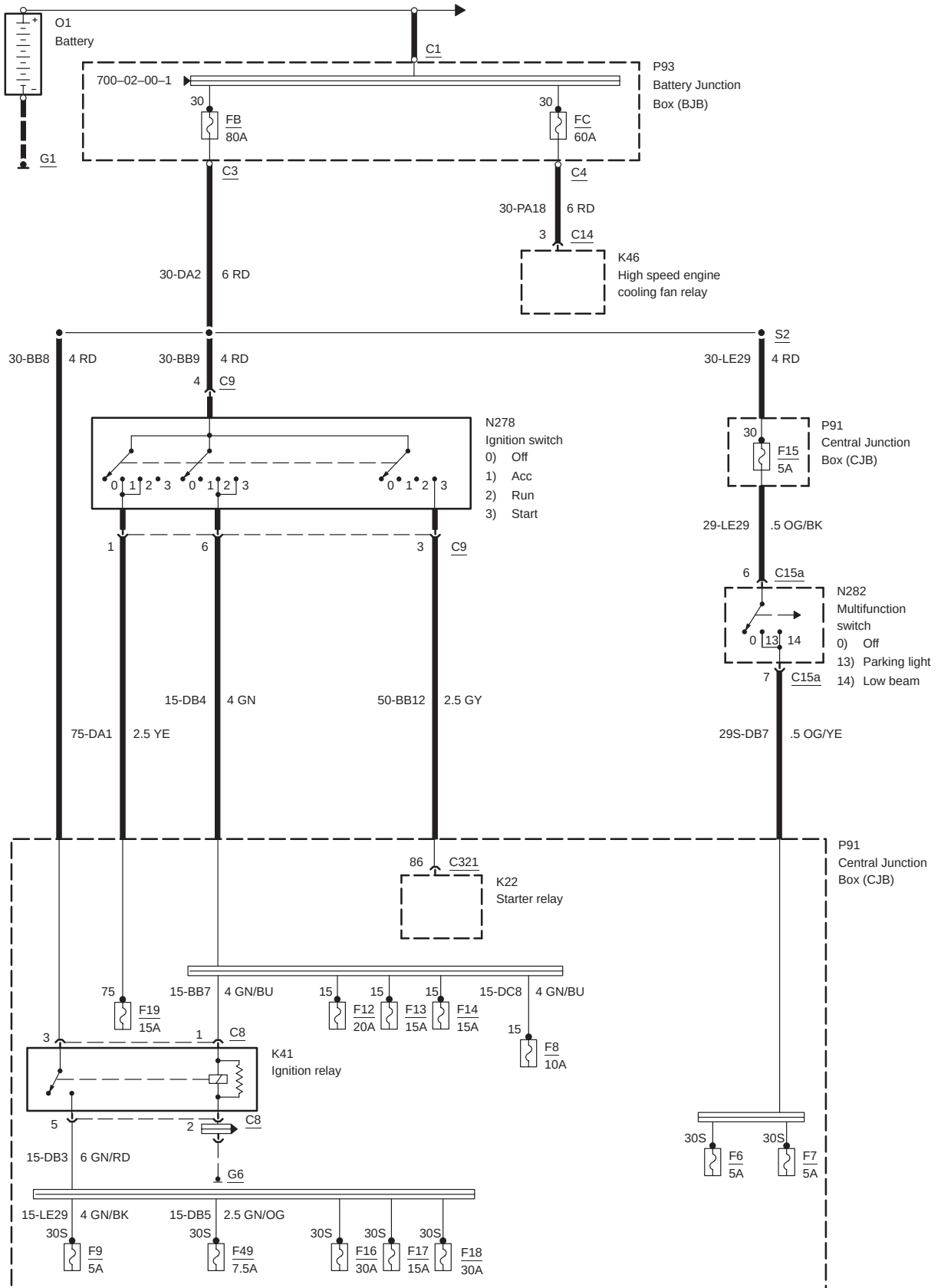
-1



Power Distribution

700-02-00

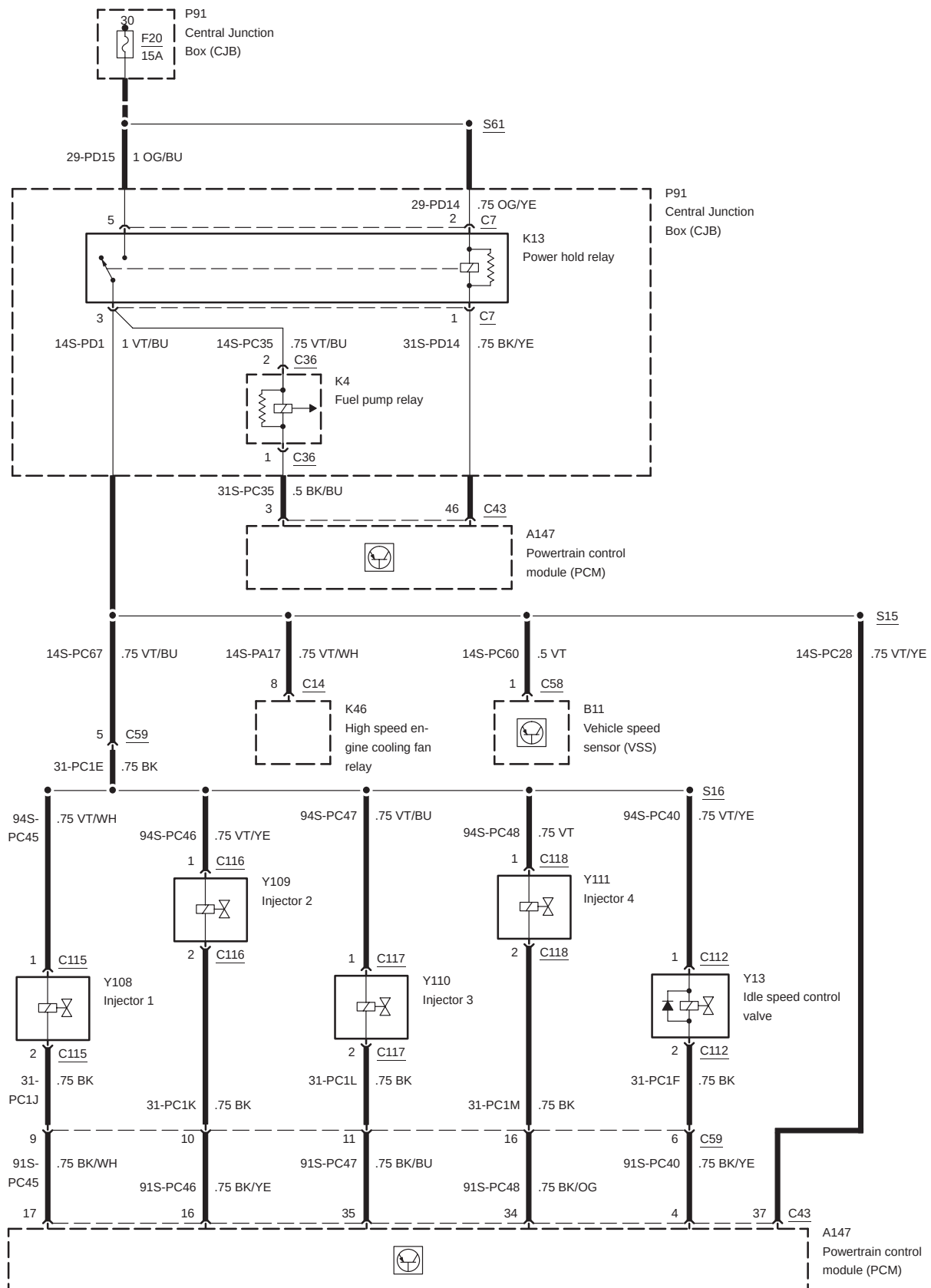
-2



Power Distribution

700-02-00

-3

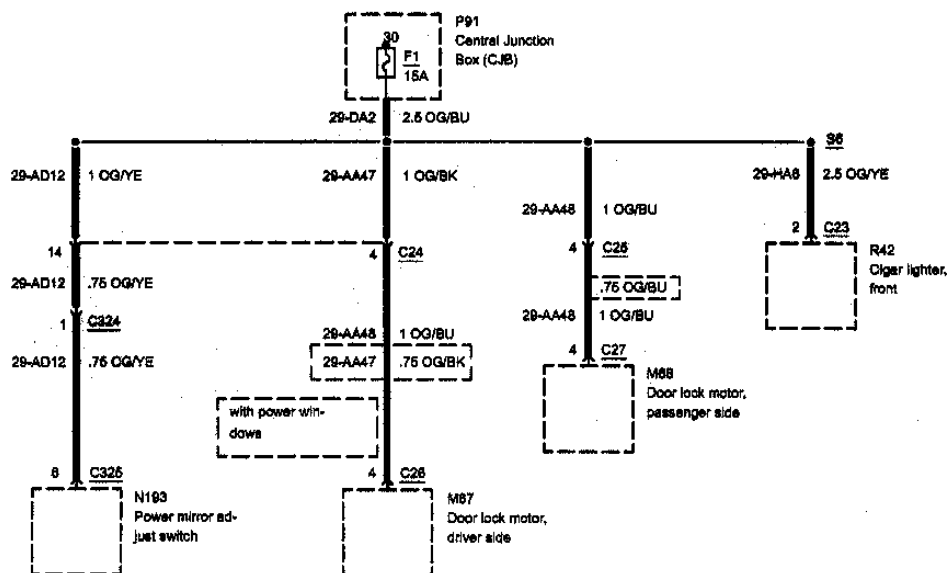


Fuse Details:

F1	700-03-00-1
F2	700-03-00-2
F4	700-03-00-3
F5, F6	700-03-00-4
F7, F8, F9	700-03-00-5
F10, F11, F12	700-03-00-6
F13, F14	700-03-00-7
F15, F16, F17, F18	700-03-00-8
F19	700-03-00-9
F20	700-03-00-10
F21, F22	700-03-00-11
F42, F49, F50	700-03-00-12
FA	700-03-00-13
FB, FC	700-03-00-14

F1

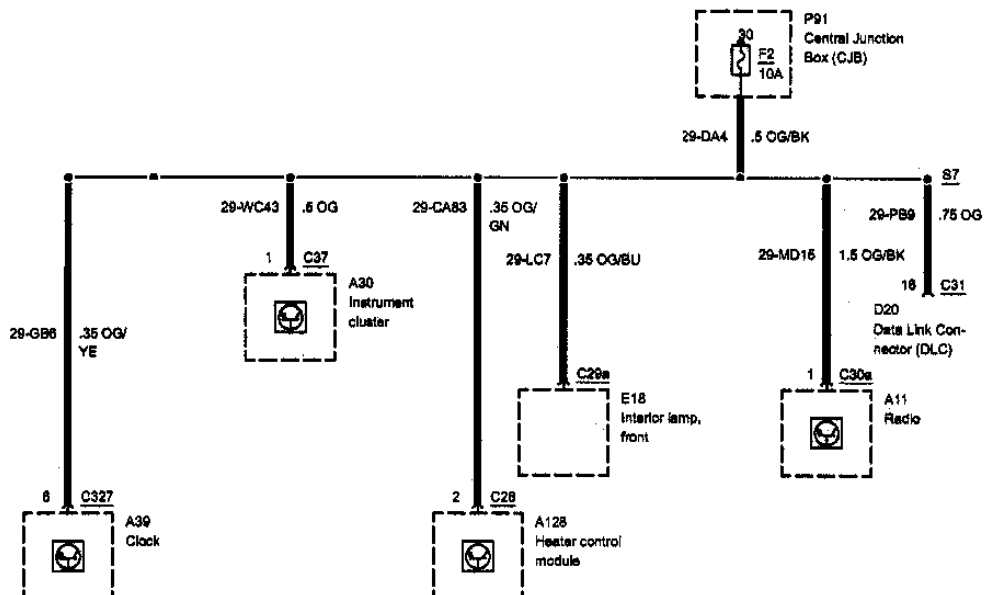
-1



'02 BANTAM E.W.D PETROL

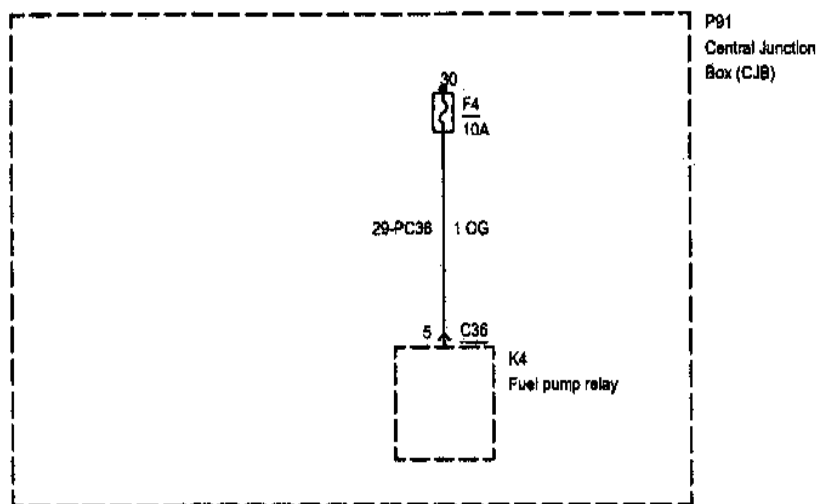
F2

-2



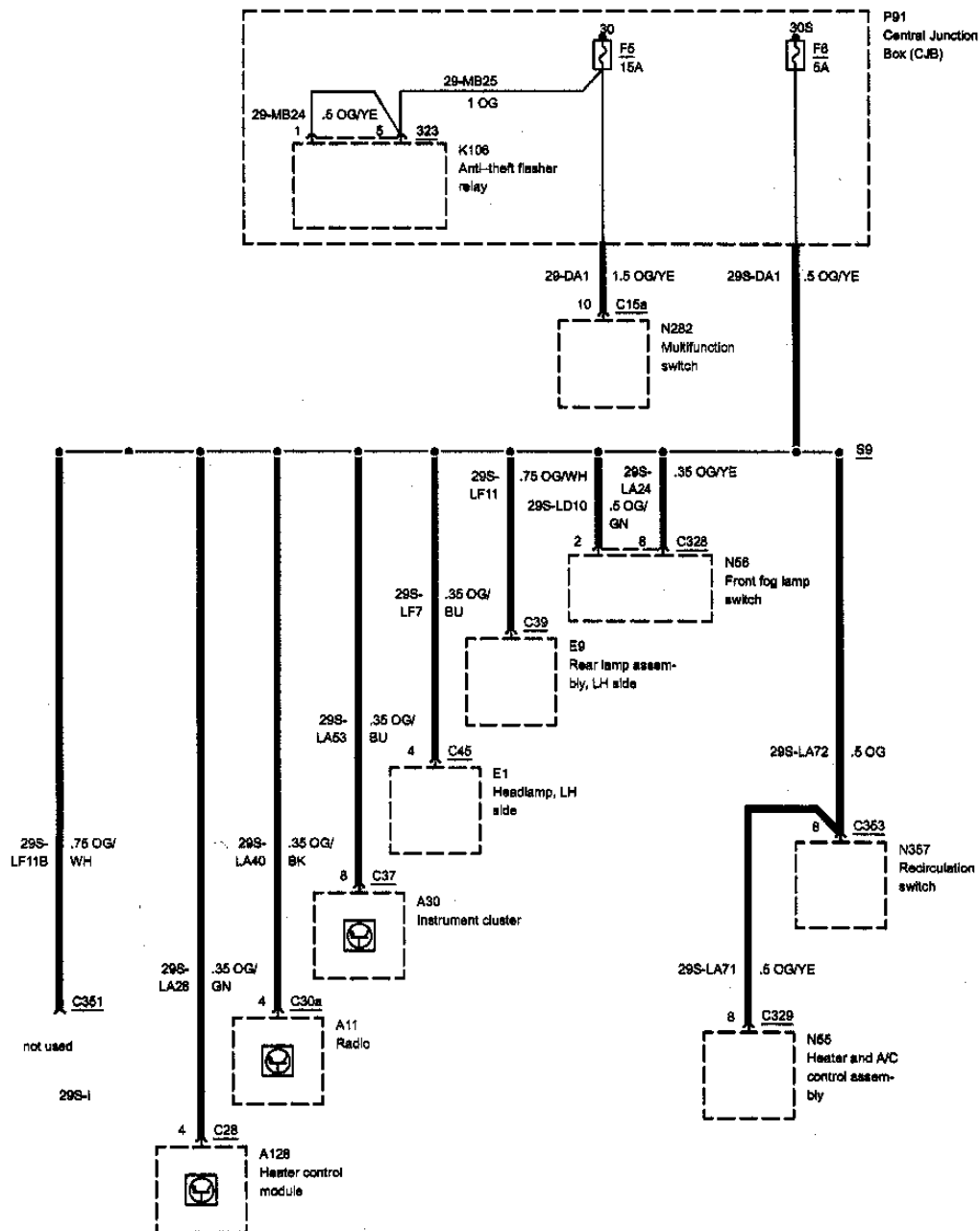
F4

-3



F5, F6

4

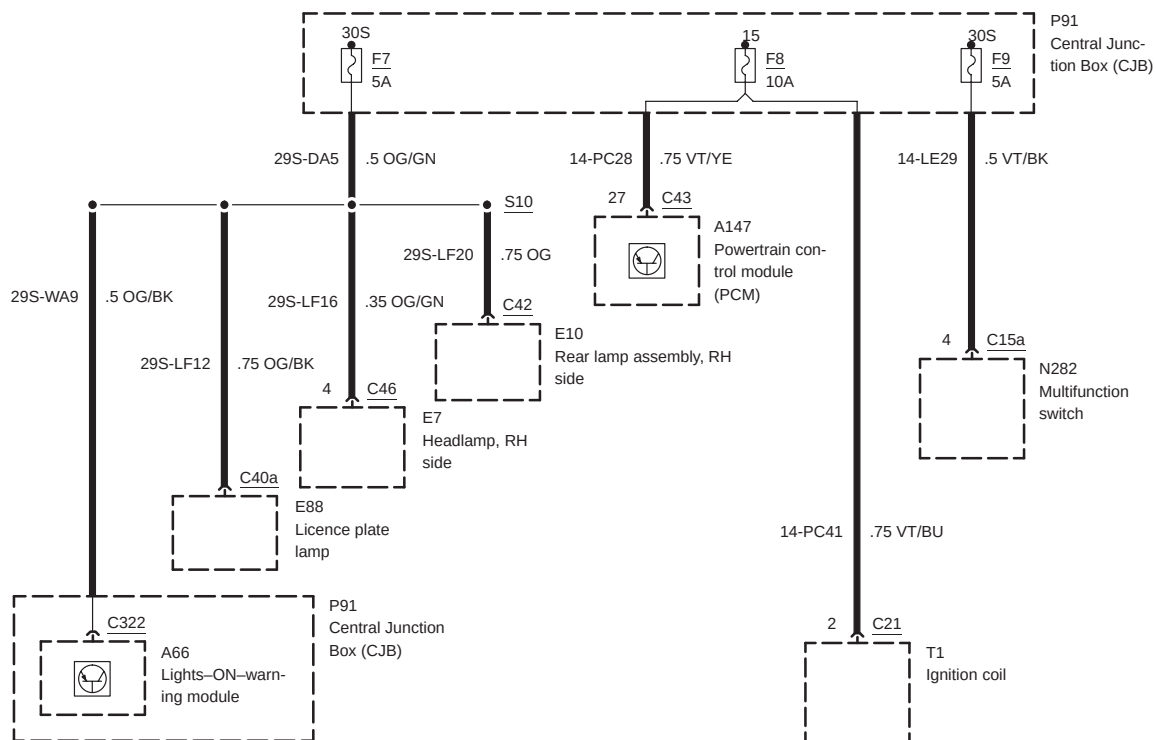


Fuse Details

700-03-00

F7, F8, F9

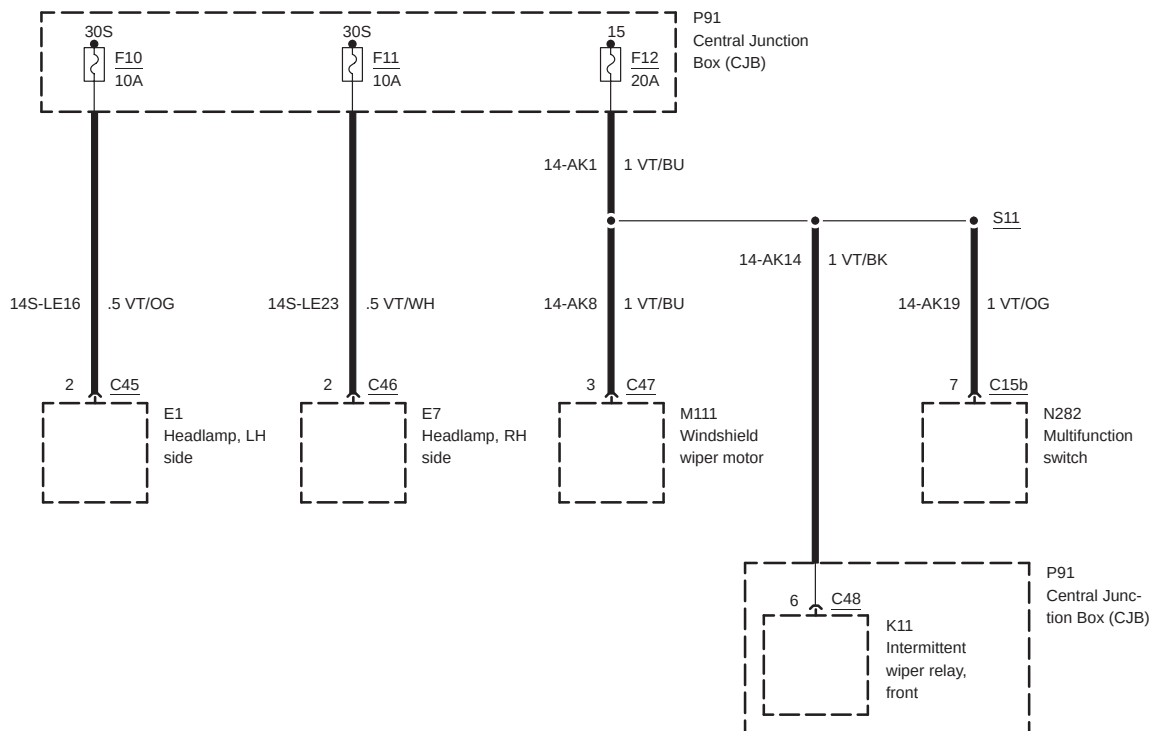
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'02 BANTAM E.W.D PETROL

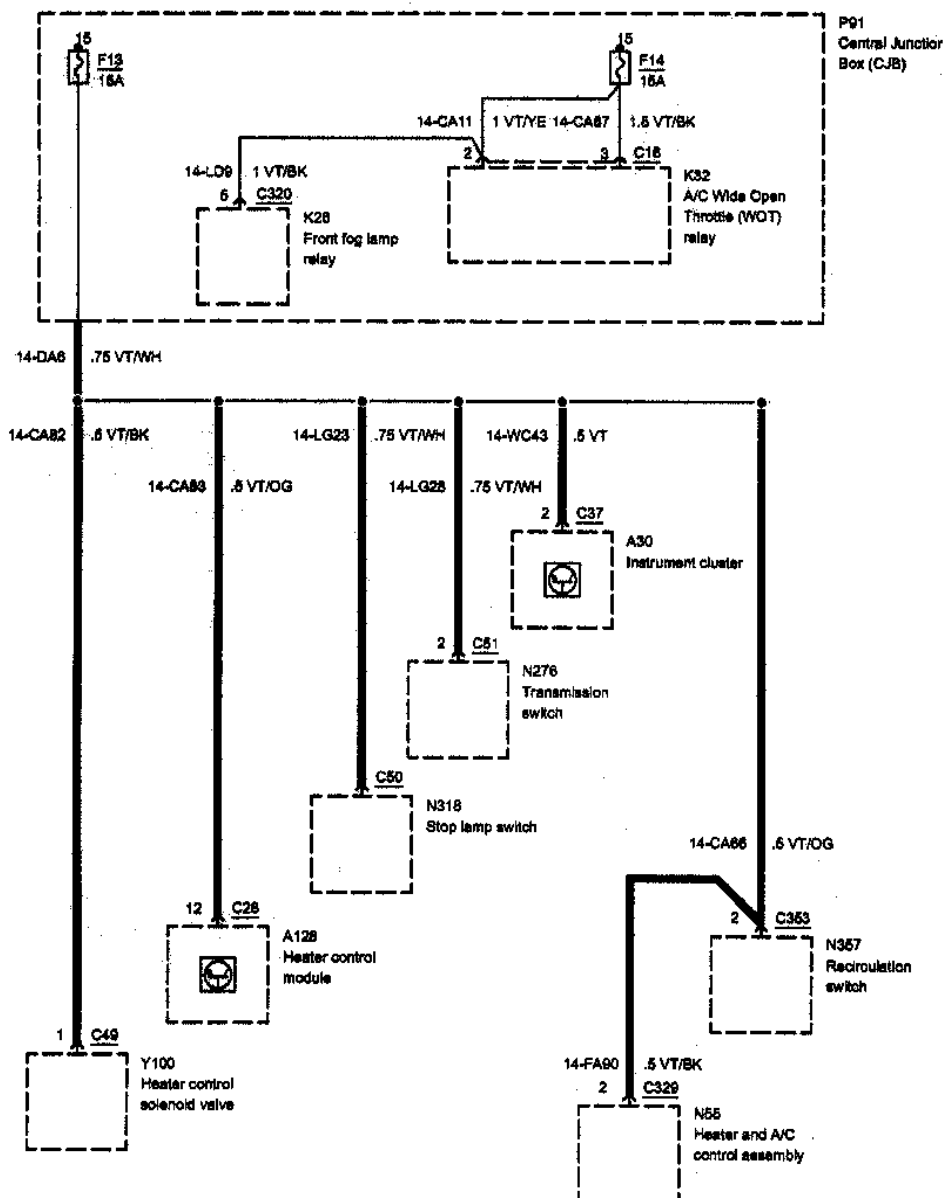
F10, F11, F12

-6



F13, F14

-7

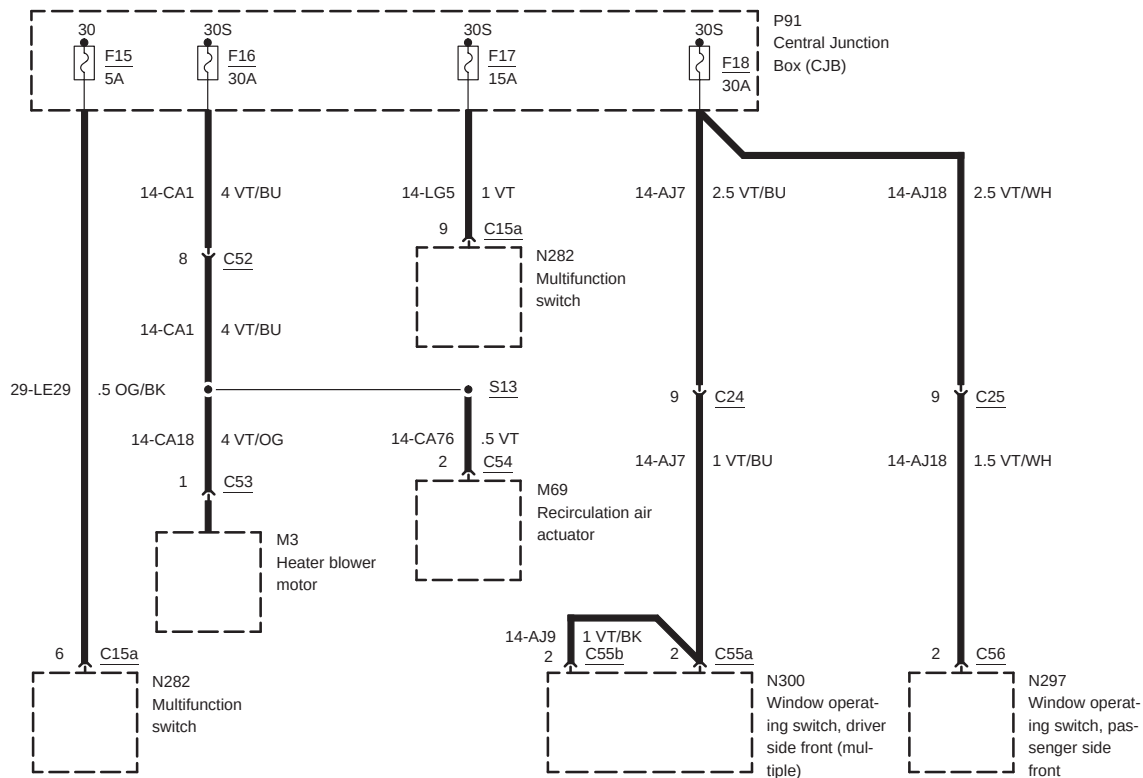


Fuse Details

700-03-00

F15, F16, F17, F18

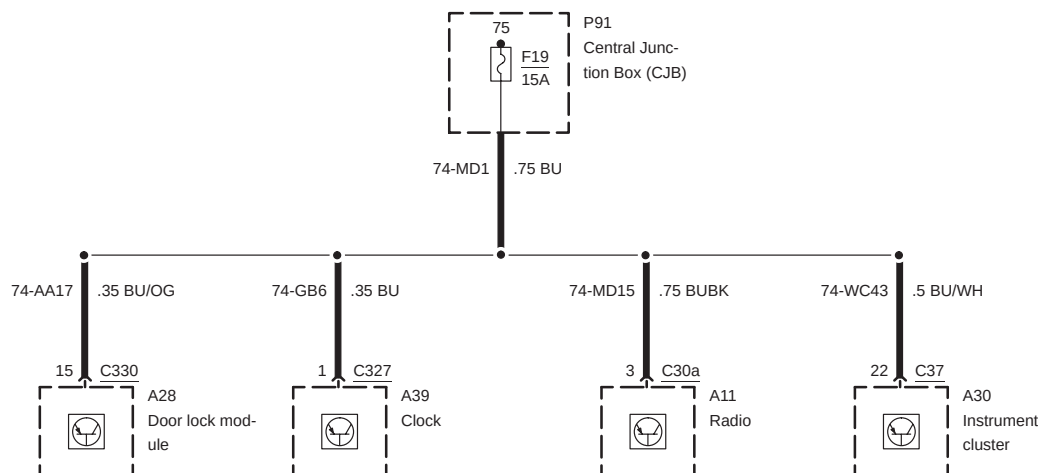
-8



'02 BANTAM E.W.D PETROL

F19

-9

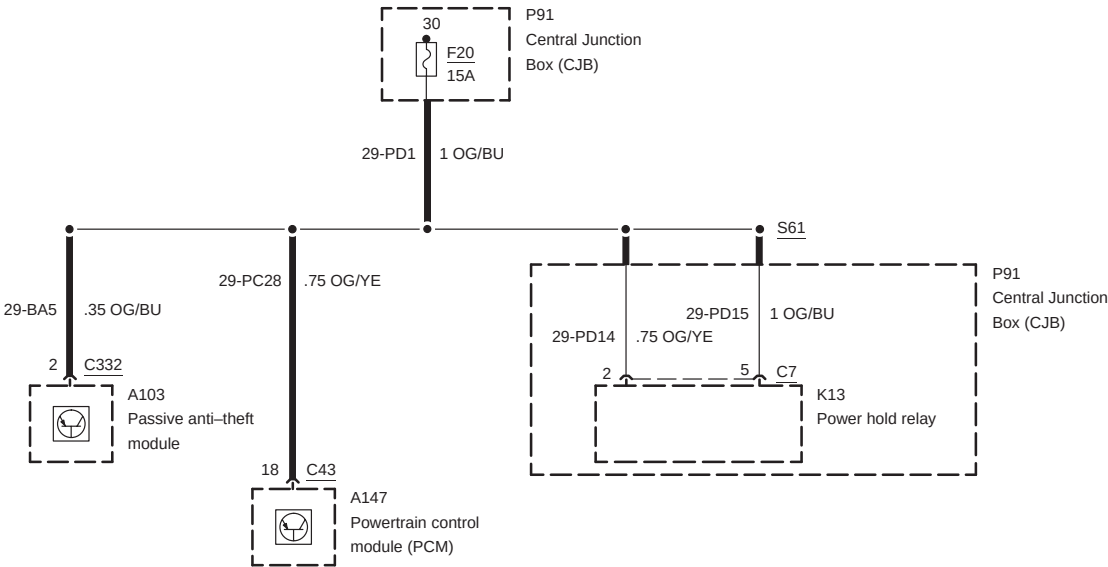


Fuse Details

700-03-00

F20

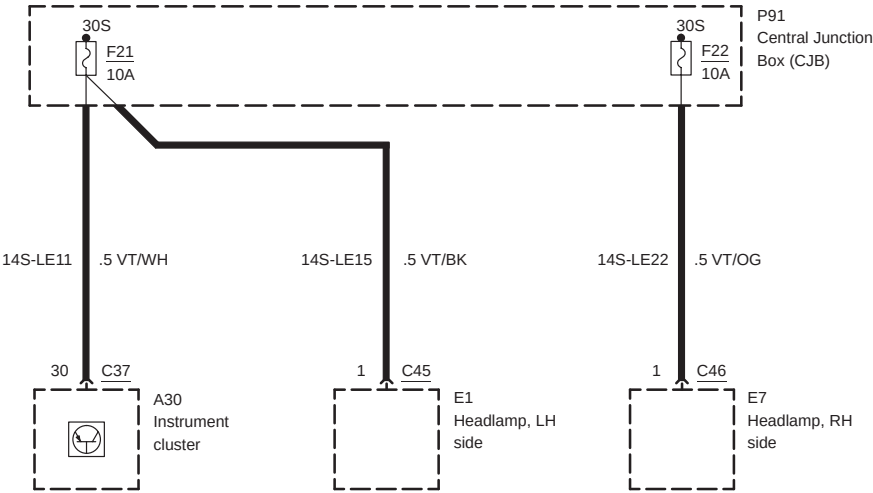
-10



'02 BANTAM E.W.D PETROL

F21, F22

-11

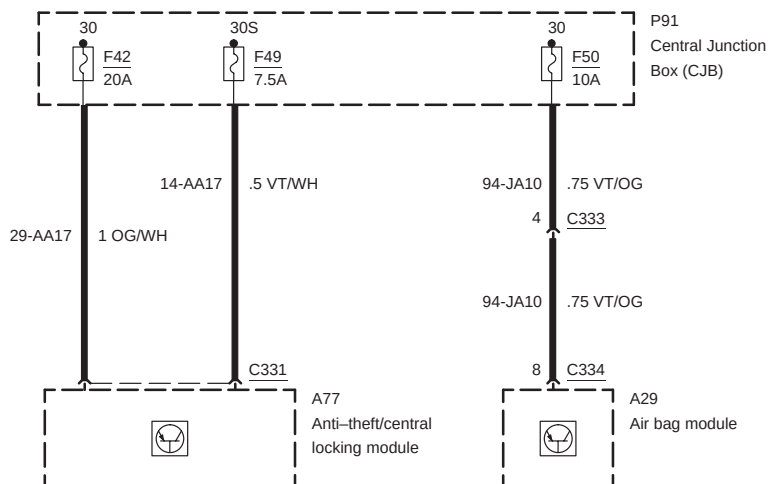


Fuse Details

700-03-00

F42, F49, F50

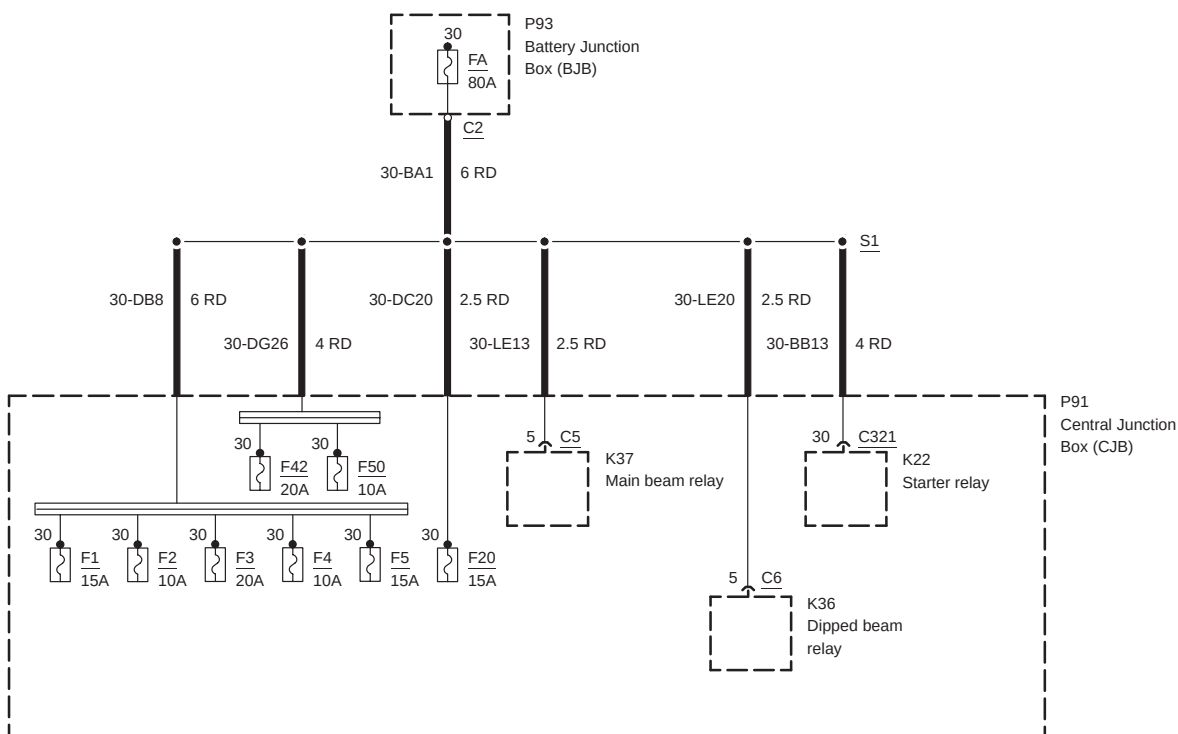
-12



'02 BANTAM E.W.D PETROL

FA

-13

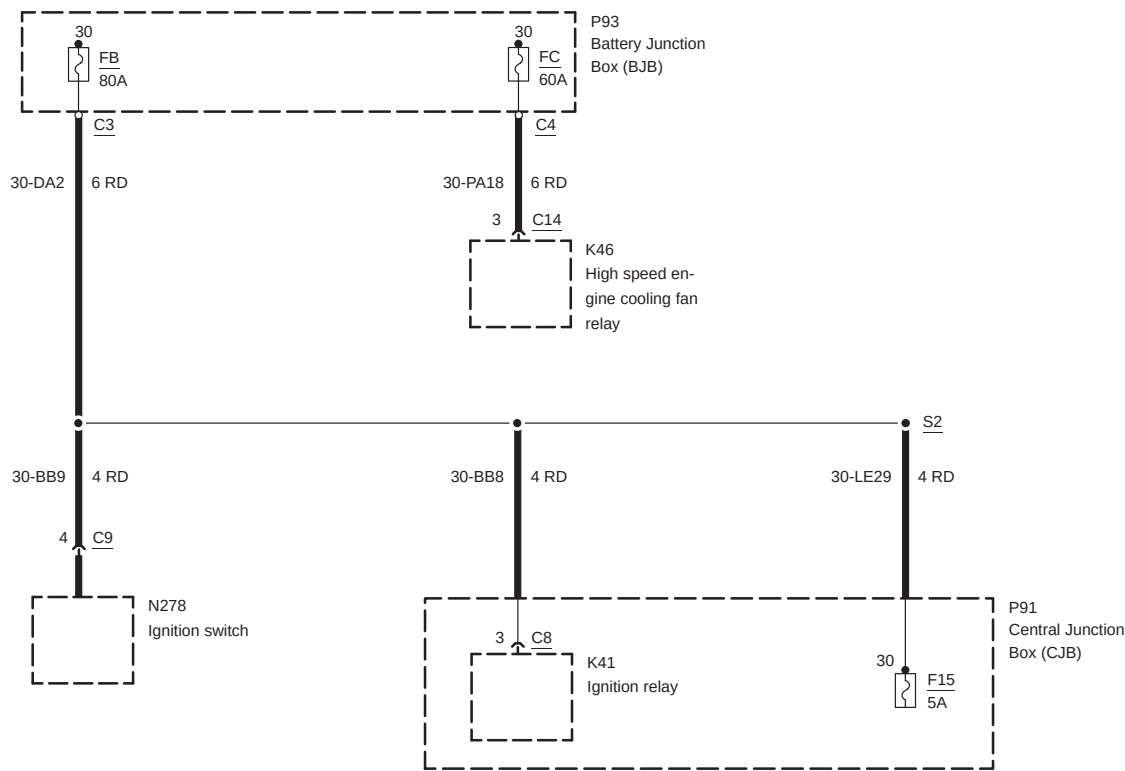


Fuse Details

700-03-00

FB, FC

-14

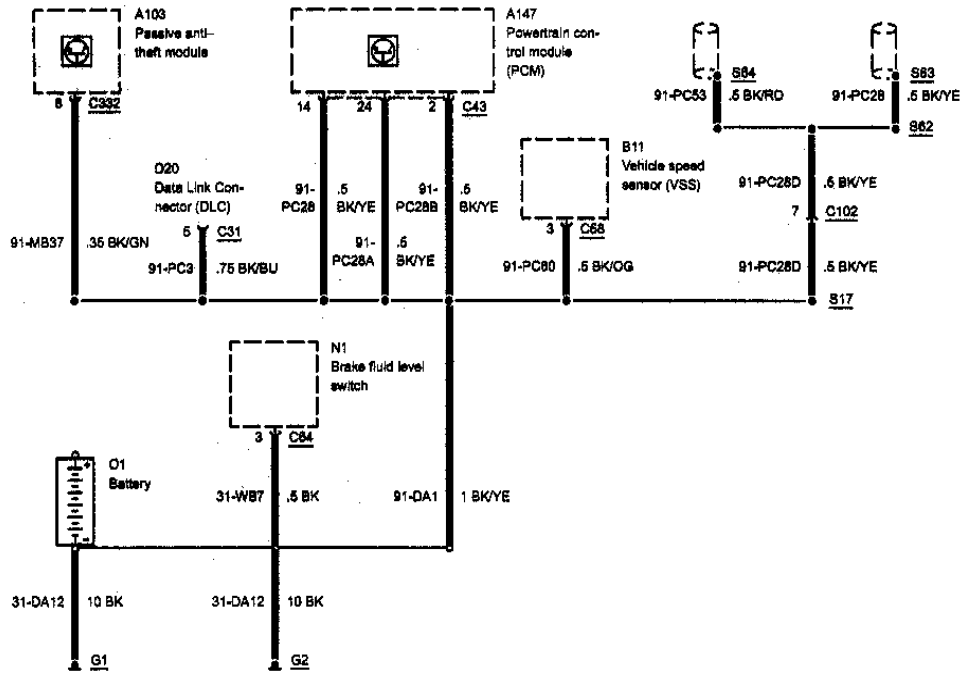


Ground Distribution:

G1, G2	700-04-00-1
G3	700-04-00-2
G4	700-04-00-3
G5, higher option content	700-04-00-4
G5, lower option content	700-04-00-5
G6	700-04-00-6/9
G7	700-04-00-10
G8	700-04-00-11
G9	700-04-00-12
G10	700-04-00-13
G11	700-04-00-14

G1, G2

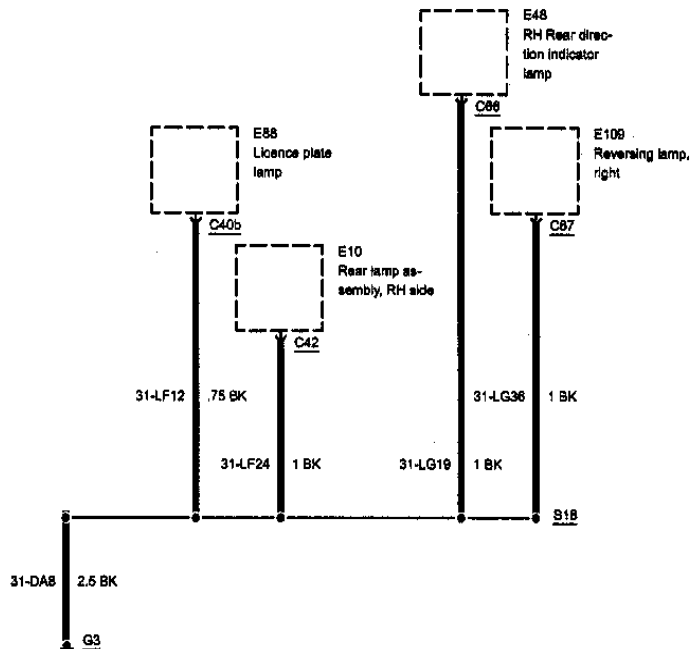
-1



G3

-2

'02 BANTAM E.W.D PETROL

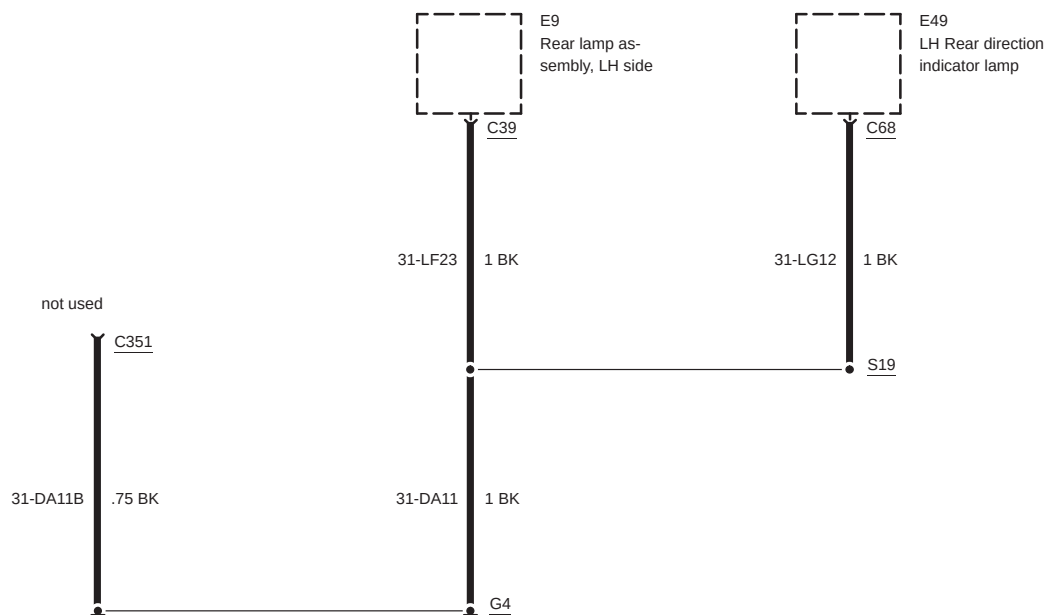


Ground Distribution

700-04-00

G4

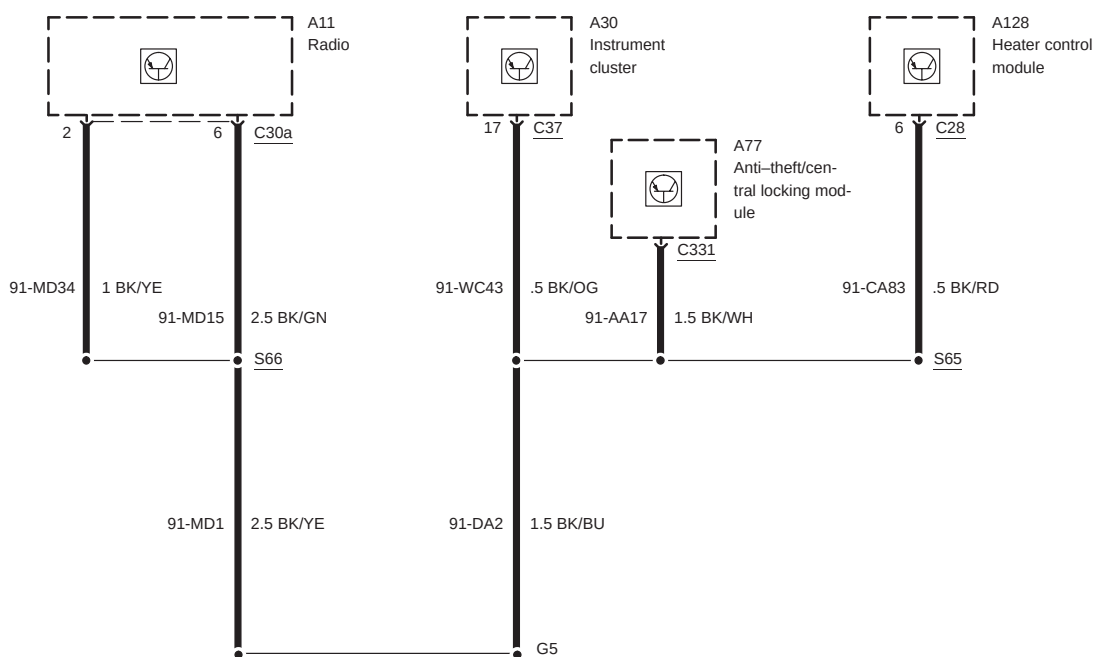
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'02 BANTAM E.W.D PETROL

G5, higher option content

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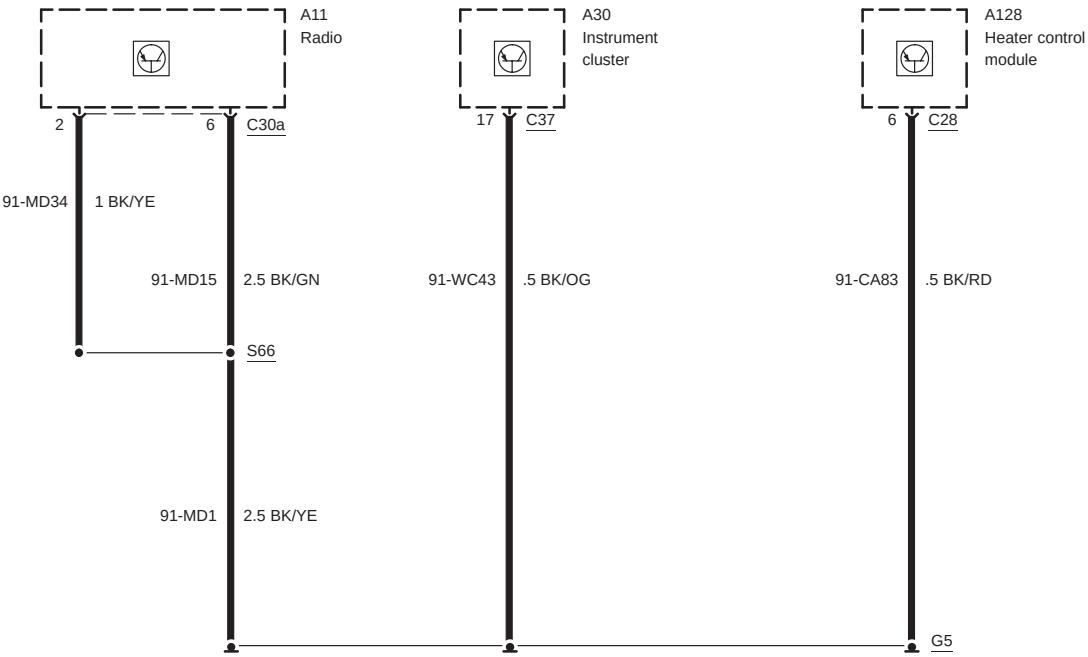


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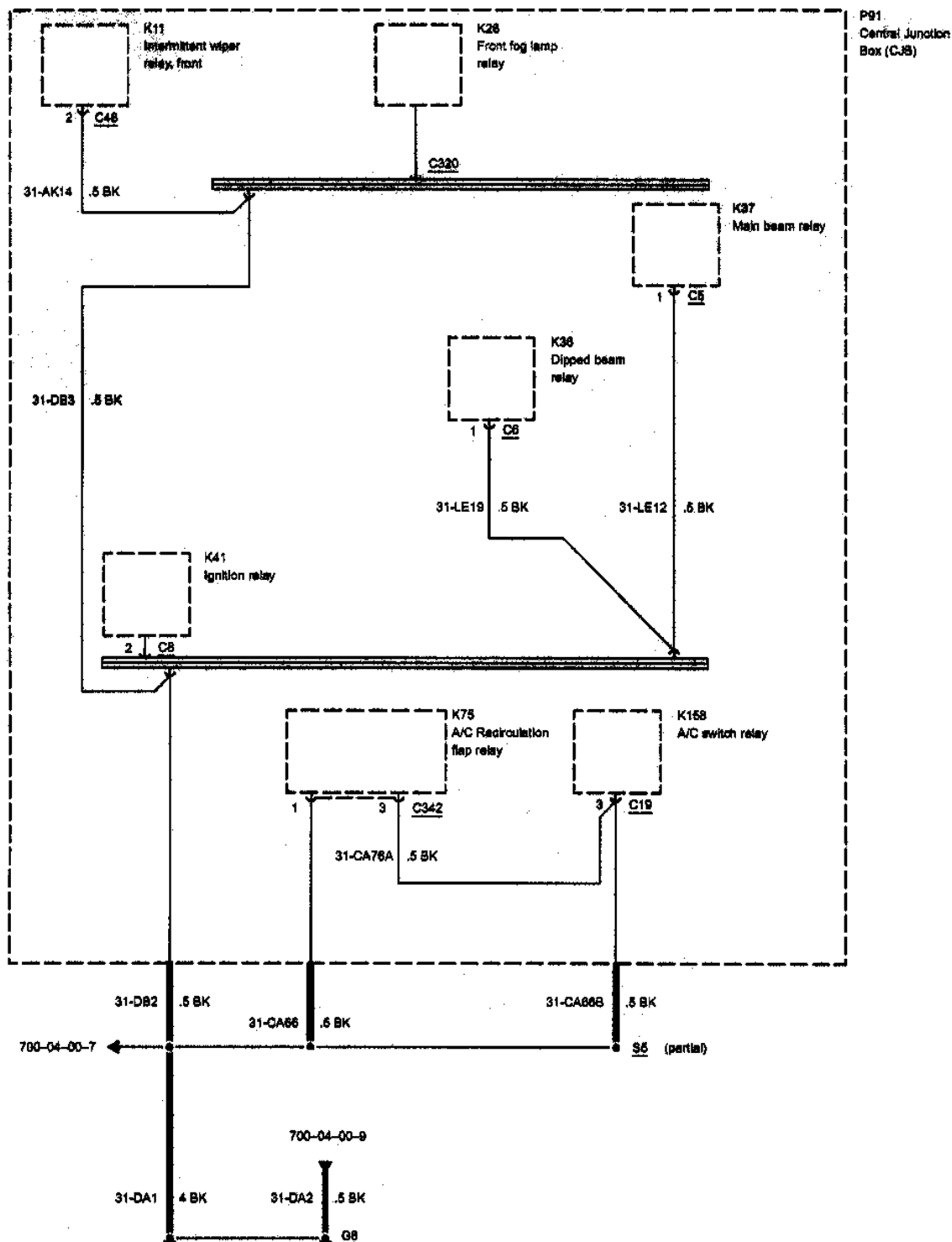
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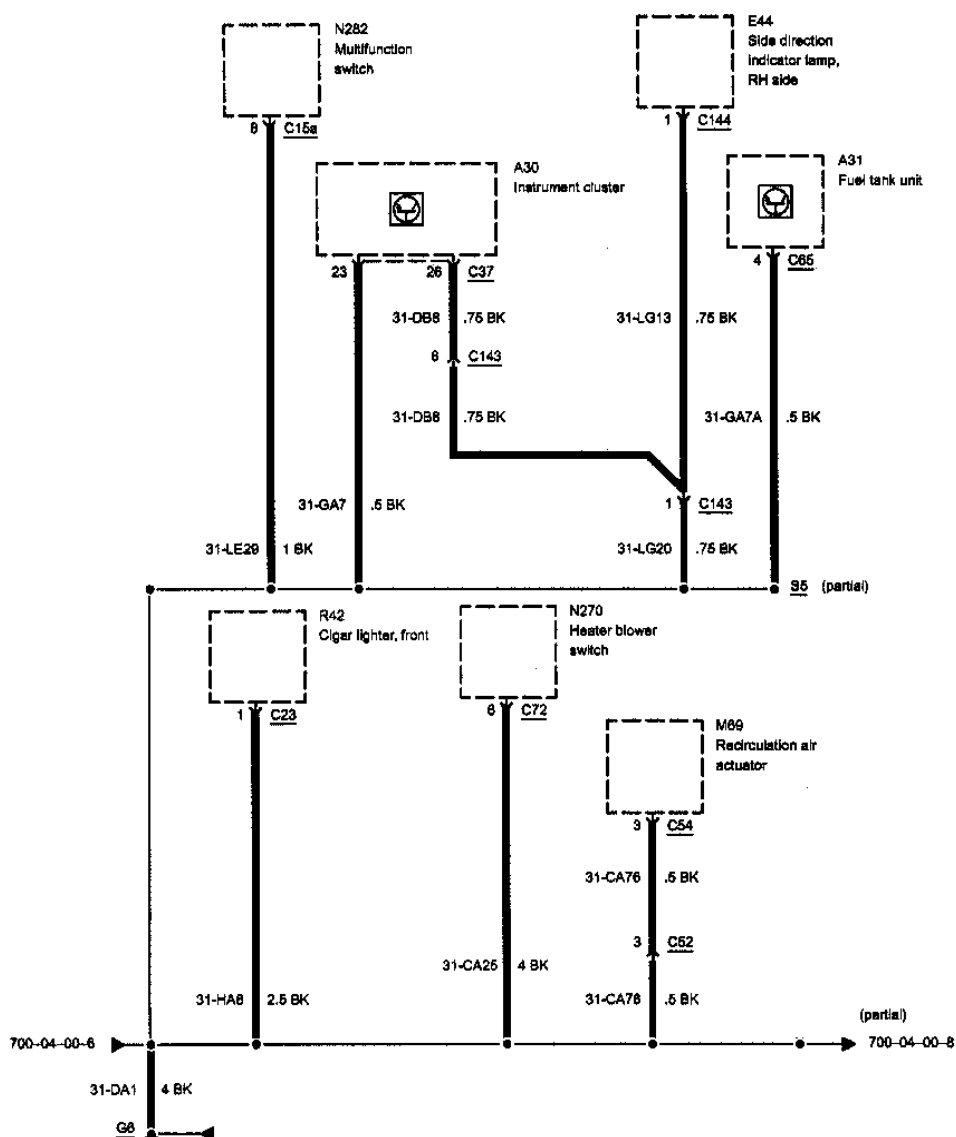
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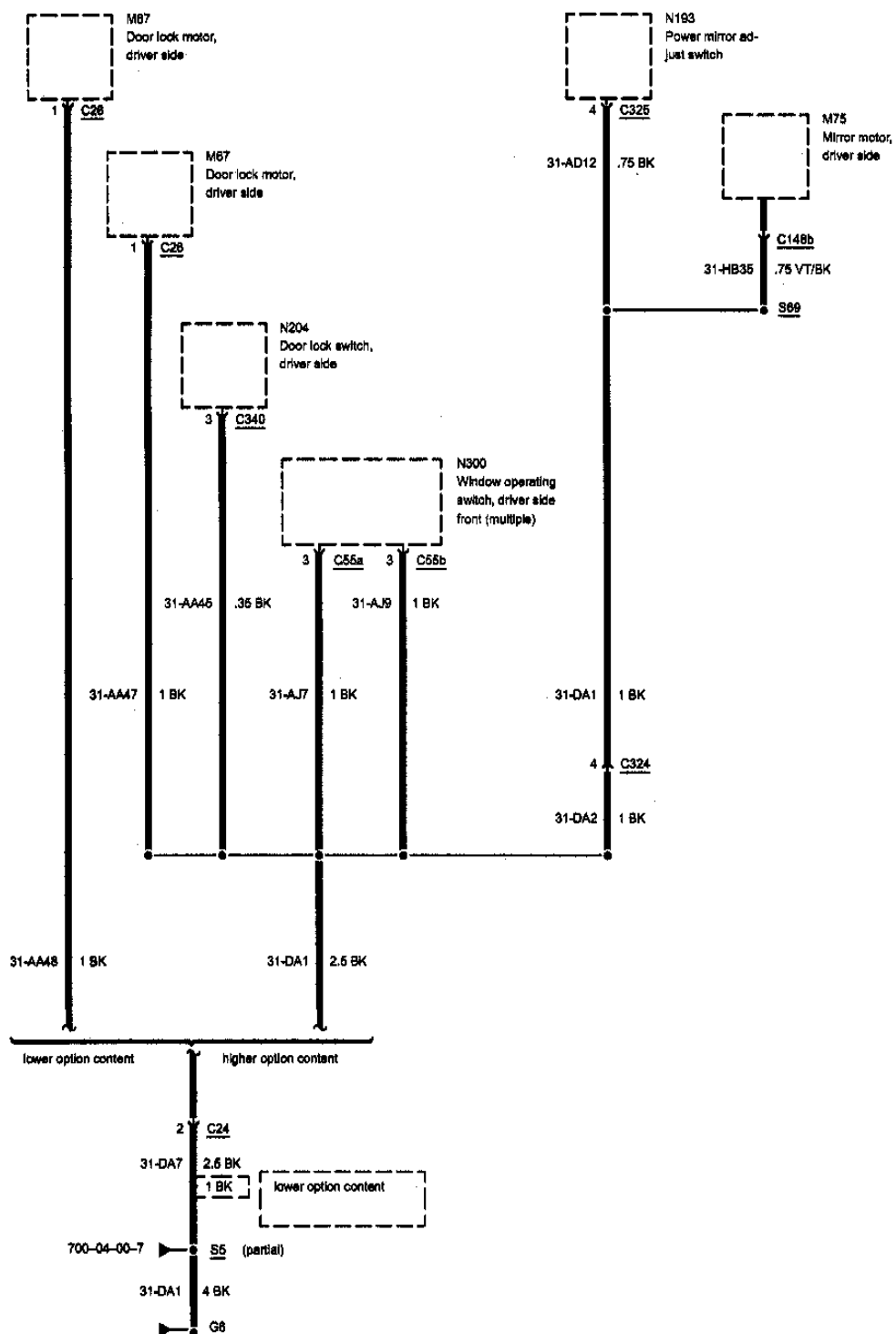
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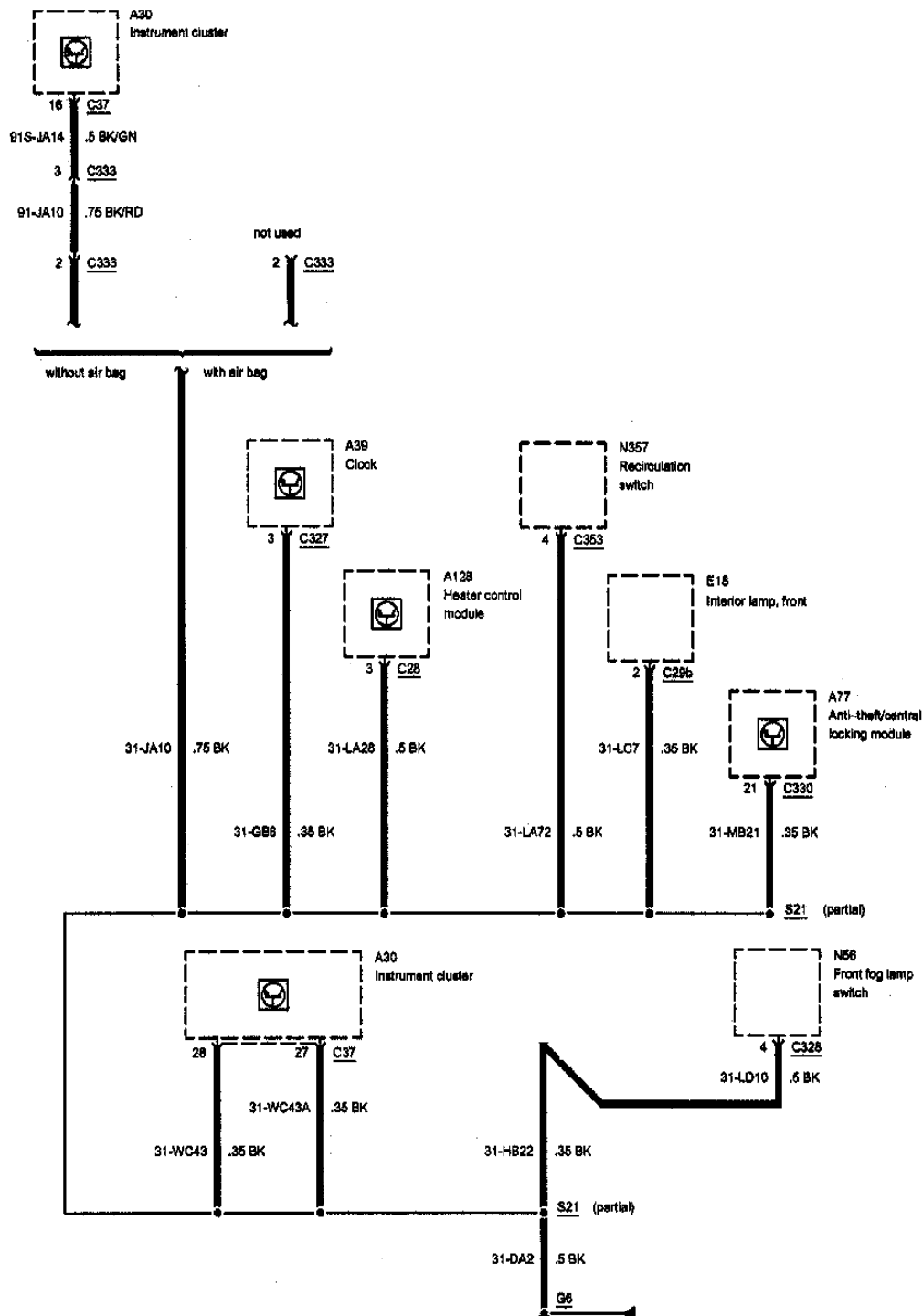
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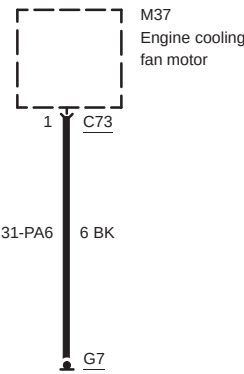


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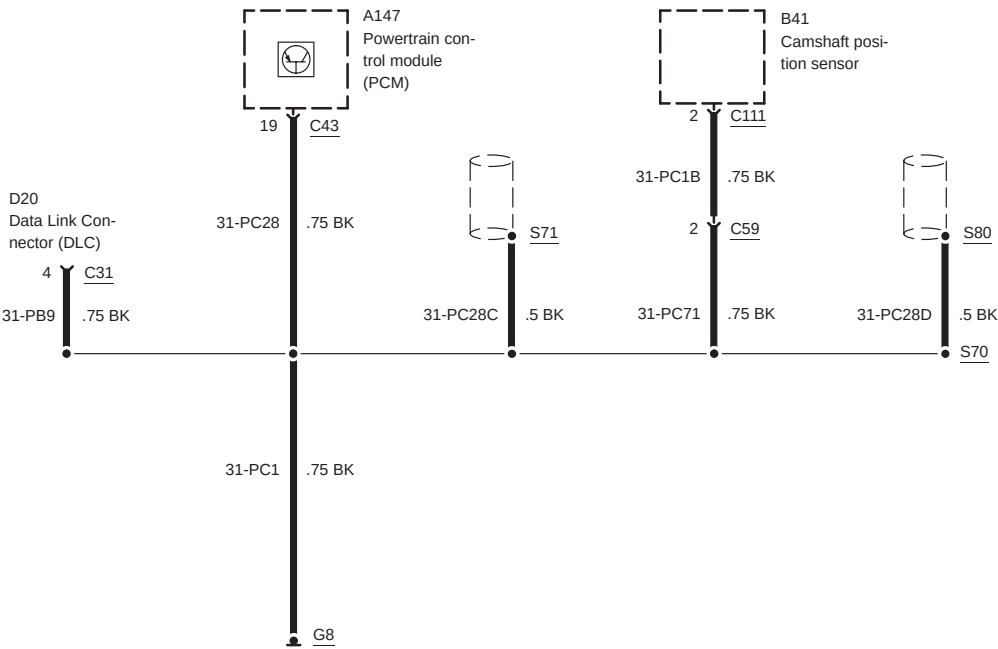
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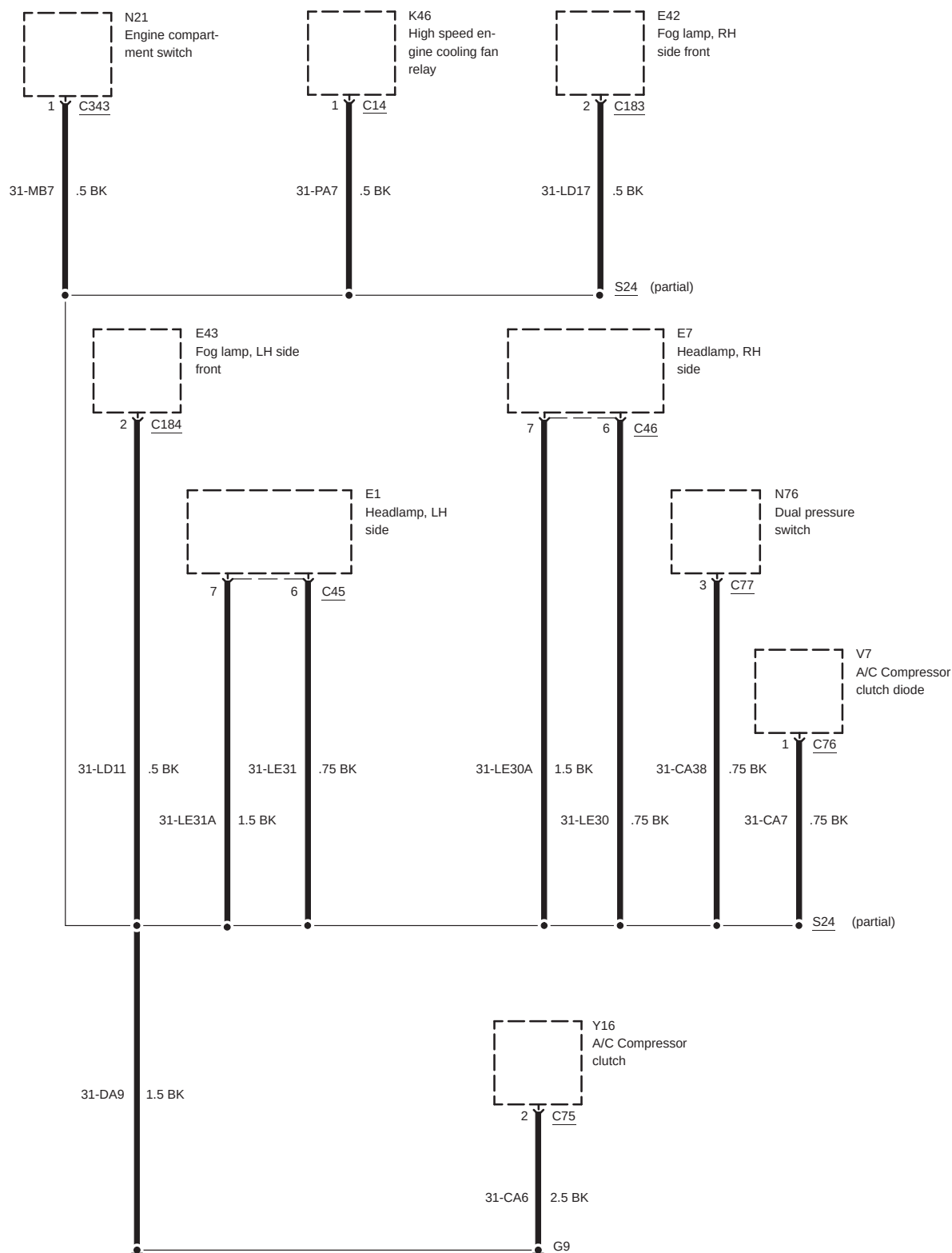


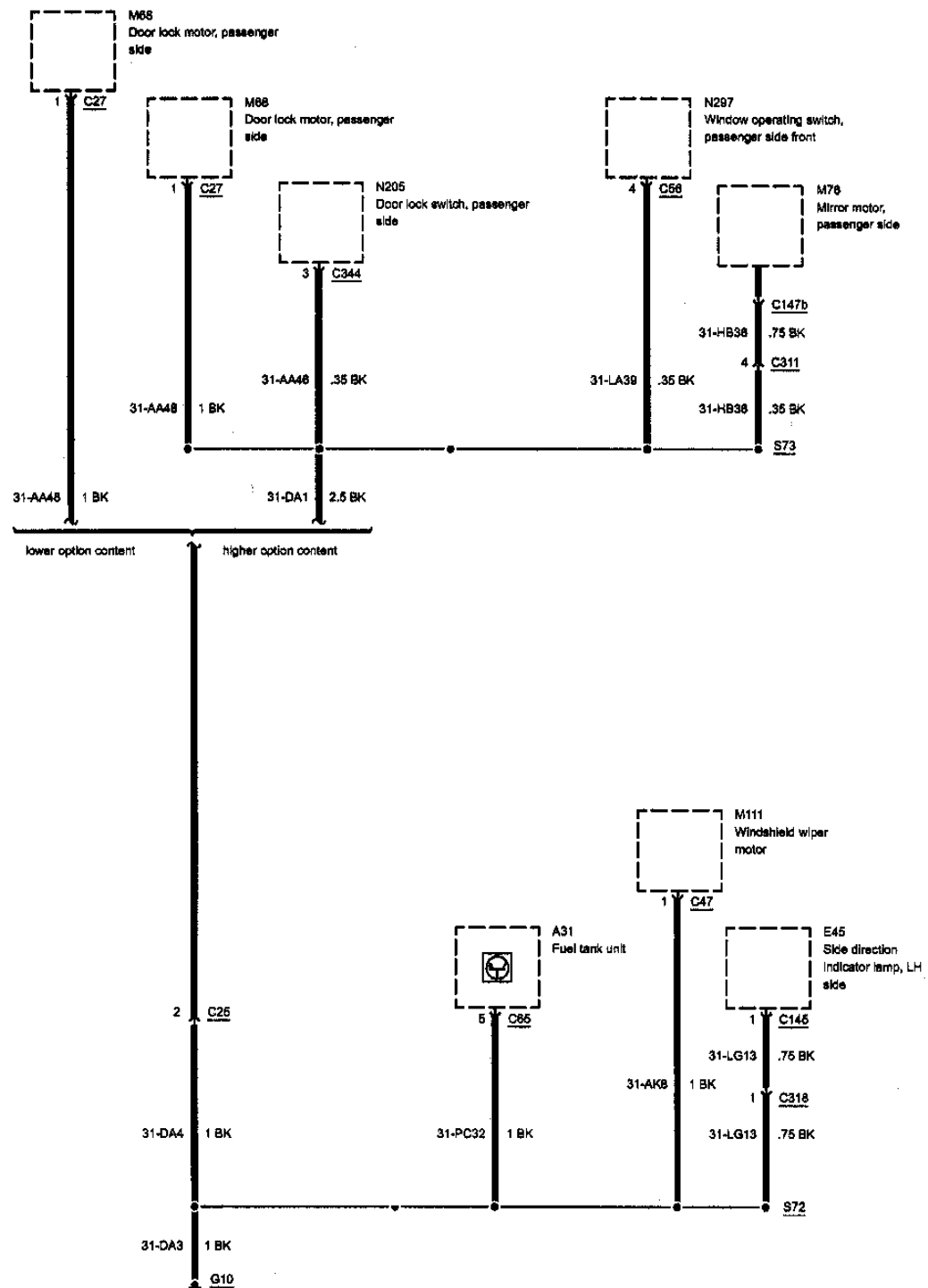
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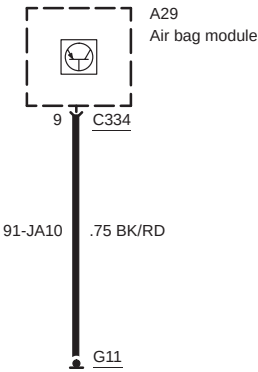


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S77	behind dash panel, centre
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F8	in Central Junction Box (CJB)	21	D 1
F9	in Central Junction Box (CJB)	21	D 1
F10	in Central Junction Box (CJB)	21	E 1
F11	in Central Junction Box (CJB)	21	E 1
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F13	in Central Junction Box (CJB)	21	B 5
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F18	in Central Junction Box (CJB)	21	D 5
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F49	in Central Junction Box (CJB)	22	A 3
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FB	in Battery Junction Box (BJB)		
FC	in Battery Junction Box (BJB)		

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14401	Main wiring harness	3 – D 2
14401	Main wiring harness	6 – F 3
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14401	Main wiring harness	9 – E 2
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14401	Main wiring harness	11 – B 4
14401	Main wiring harness	12 – A 3
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14B095	Wiring harness – Air bag(s)	20 – E 1

COMPONENT LOCATION VIEWS:

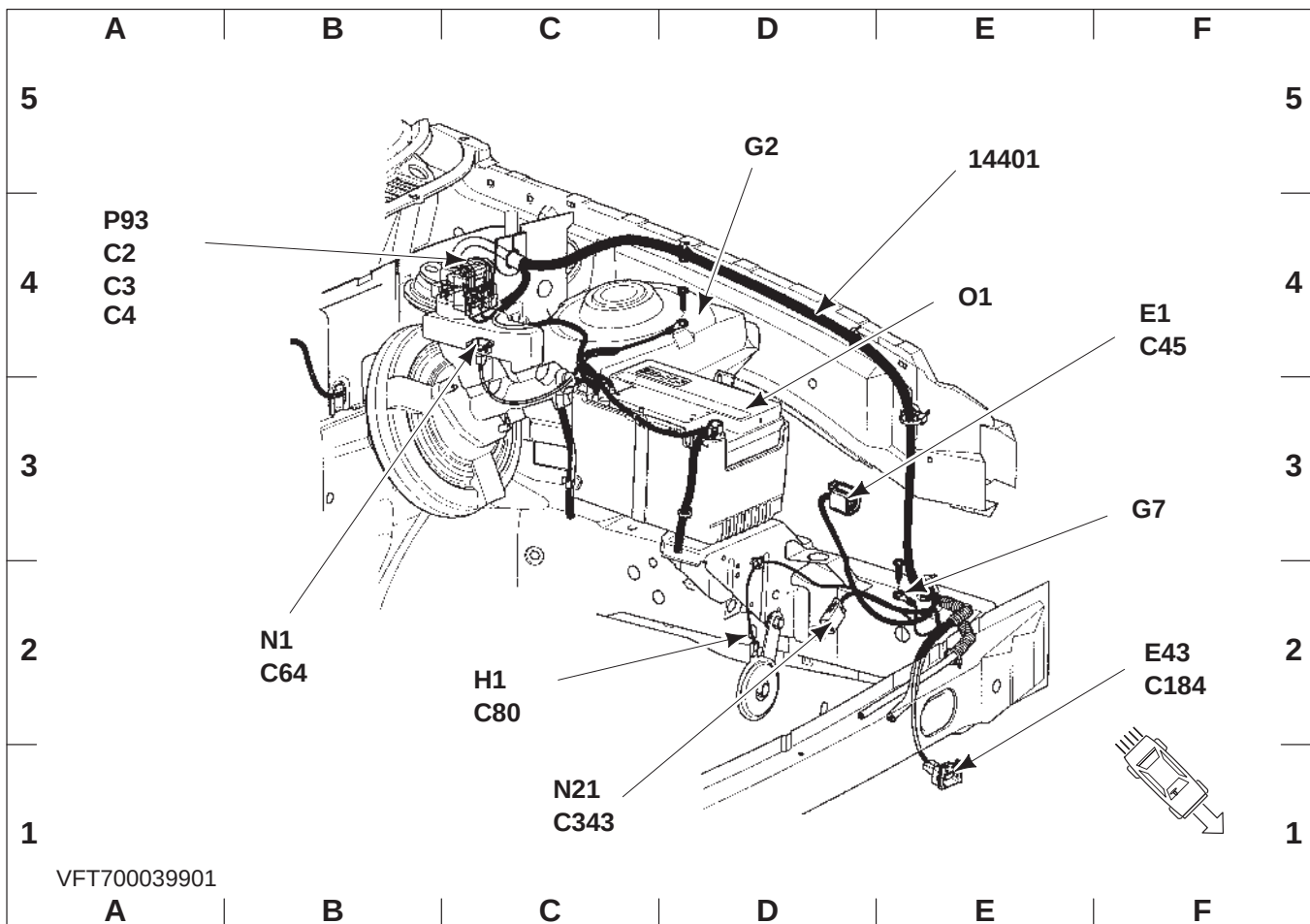
Engine compartment, LH side	700-06-00-1
Engine compartment, RH side	700-06-00-2
On radiator	700-06-00-3
1,3 l	700-06-00-4
1,6 l	700-06-00-5
Engine bulkhead, 1,6 l	700-06-00-6
On engine bulkhead	700-06-00-7
Vehicle floor, driver side	700-06-00-8
RH A-pillar	700-06-00-9
LH A-pillar	700-06-00-10
In roof	700-06-00-11 & 13
Luggage compartment, LH side	700-06-00-14
Front door, Driver side shown, passenger side similar	700-06-00-15
Dash panel – driver side	700-06-00-17
Dash panel – centre	700-06-00-18
Dash panel – passenger side	700-06-00-19
On steering column	700-06-00-20
Central Junction Box (CJB)	700-06-00-21/22

Component Location Views

700-06-00

Engine compartment, LH side

-1



Engine compartment, LH side

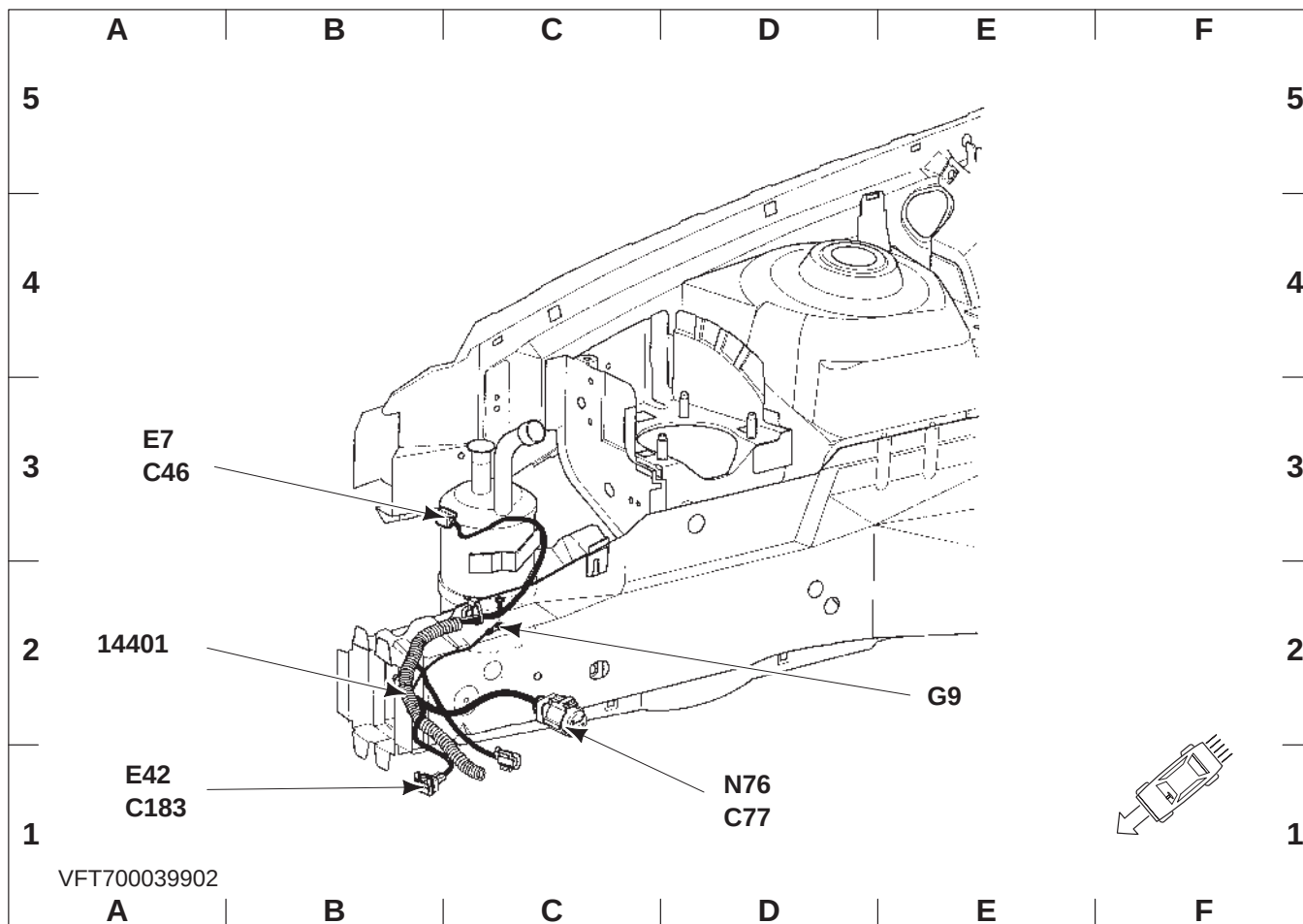
14401 Main wiring harness	E 5	E1 ... Headlamp, LH side	F 4
C2	A 4	E43 ... Fog lamp, LH side front	F 2
C3	A 4	G2	D 5
C4	A 4	G7	F 3
C45	F 4	H1 ... Horn	C 2
C64	B 2	N1 ... Brake fluid level switch	B 2
C80	C 2	N21 ... Engine compartment switch	C 1
C184	F 2	O1 ... Battery	E 4
C343	C 1	P93 ... Battery Junction Box (BJB)	A 4

Component Location Views

700-06-00

Engine compartment, RH side

-2



Engine compartment, RH side

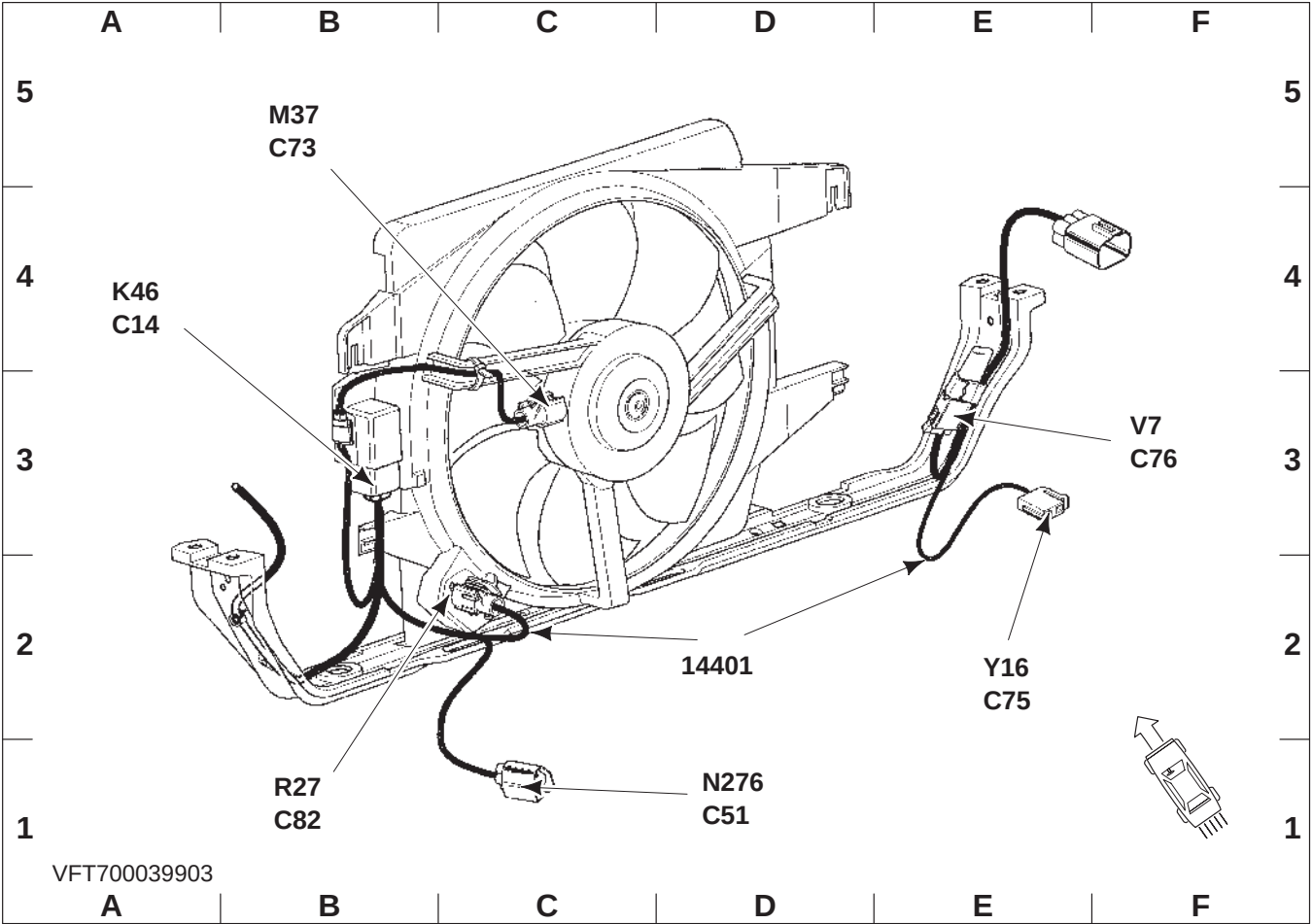
14401	Main wiring harness	A 2	E7 ...	Headlamp, RH side	A 3
C46		A 3	E42 ..	Fog lamp, RH side front	A 1
C77		D 1	G9		E 2
C183		A 1	N76 ..	Dual pressure switch	D 1

Component Location Views

700-06-00

On radiator

-3

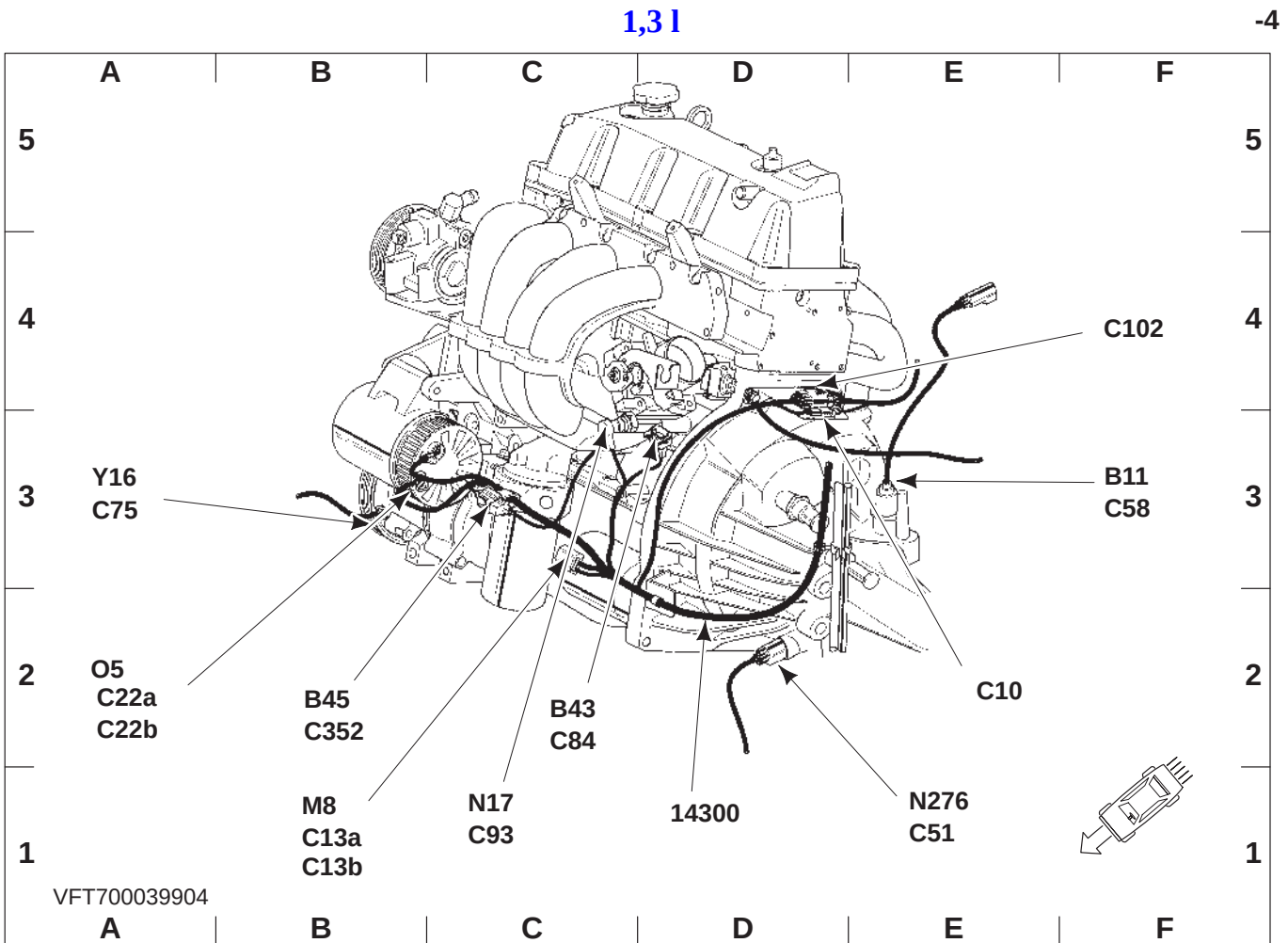


On radiator

14401	Main wiring harness	D 2	K46 ..	High speed engine cooling fan relay	... A 4
C14		A 4	M37 .	Engine cooling fan motor	 B 5
C51		D 1	N276 .	Transmission switch	 D 1
C73		B 5	R27 ..	Engine cooling fan resistor	 B 1
C75		E 2	V7 ...	A/C Compressor clutch diode	 F 3
C76		F 3	Y16 ..	A/C Compressor clutch	 E 2
C82		B 1			

Component Location Views

700-06-00



1,3 I

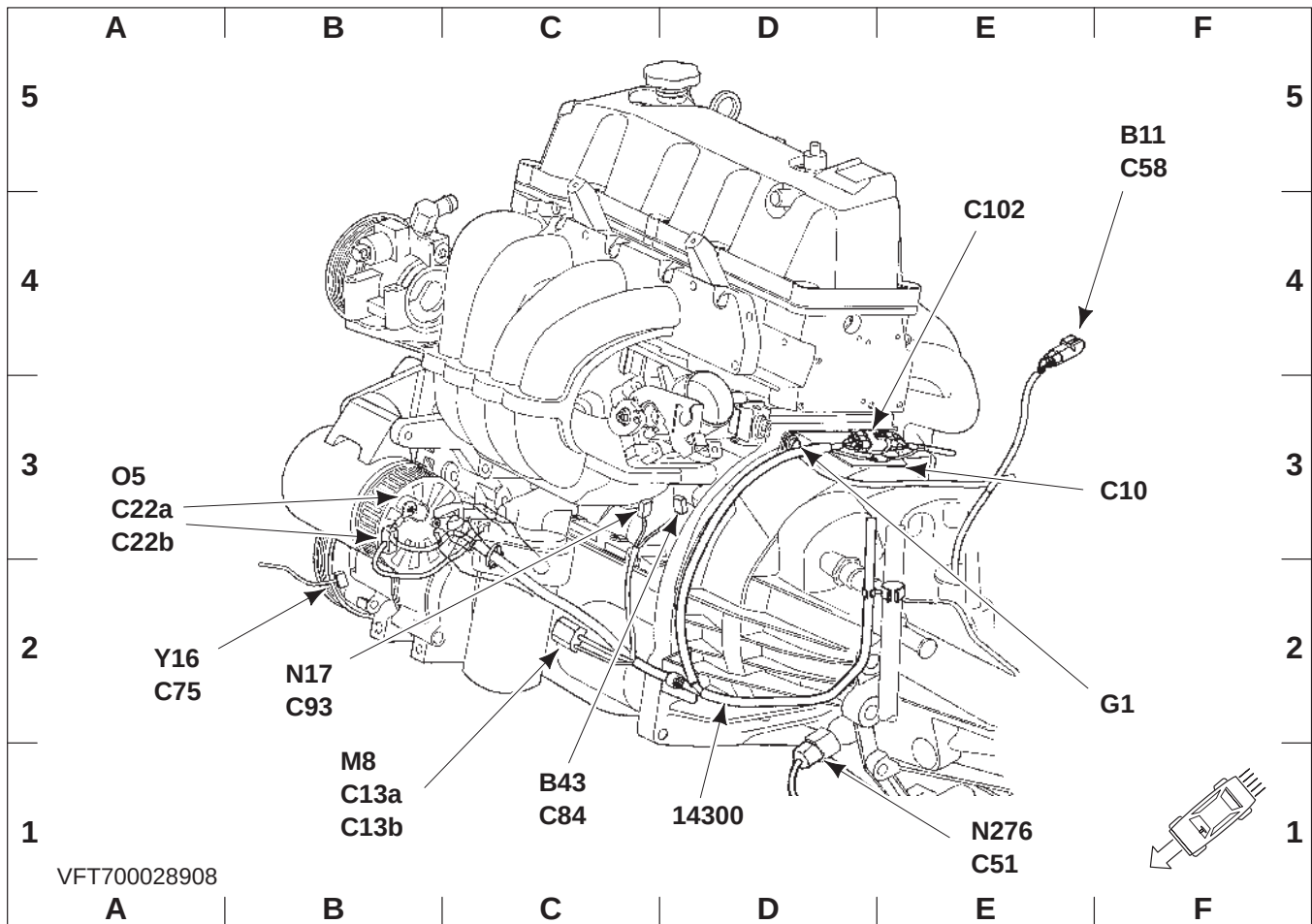
14300	Wiring harness – Battery output	D 1	C75	A 3	
B11	Vehicle speed sensor (VSS)	F 3	C84	C 2	
B43	Crankshaft position sensor	C 2	C93	C 1	
B45	Knock sensor	B 2	C102	F 4	
C10		E 2	C352	B 2	
C13a		B 1	M8	Starter motor	B 1
C13b		B 1	N17	Oil pressure switch	C 1
C22a		A 2	N276	Transmission switch	E 1
C22b		A 2	O5	Generator	A 2
C51		E 1	Y16	A/C Compressor clutch	A 3
C58		F 3			

Component Location Views

700-06-00

1,6 l

-5



1,6 l

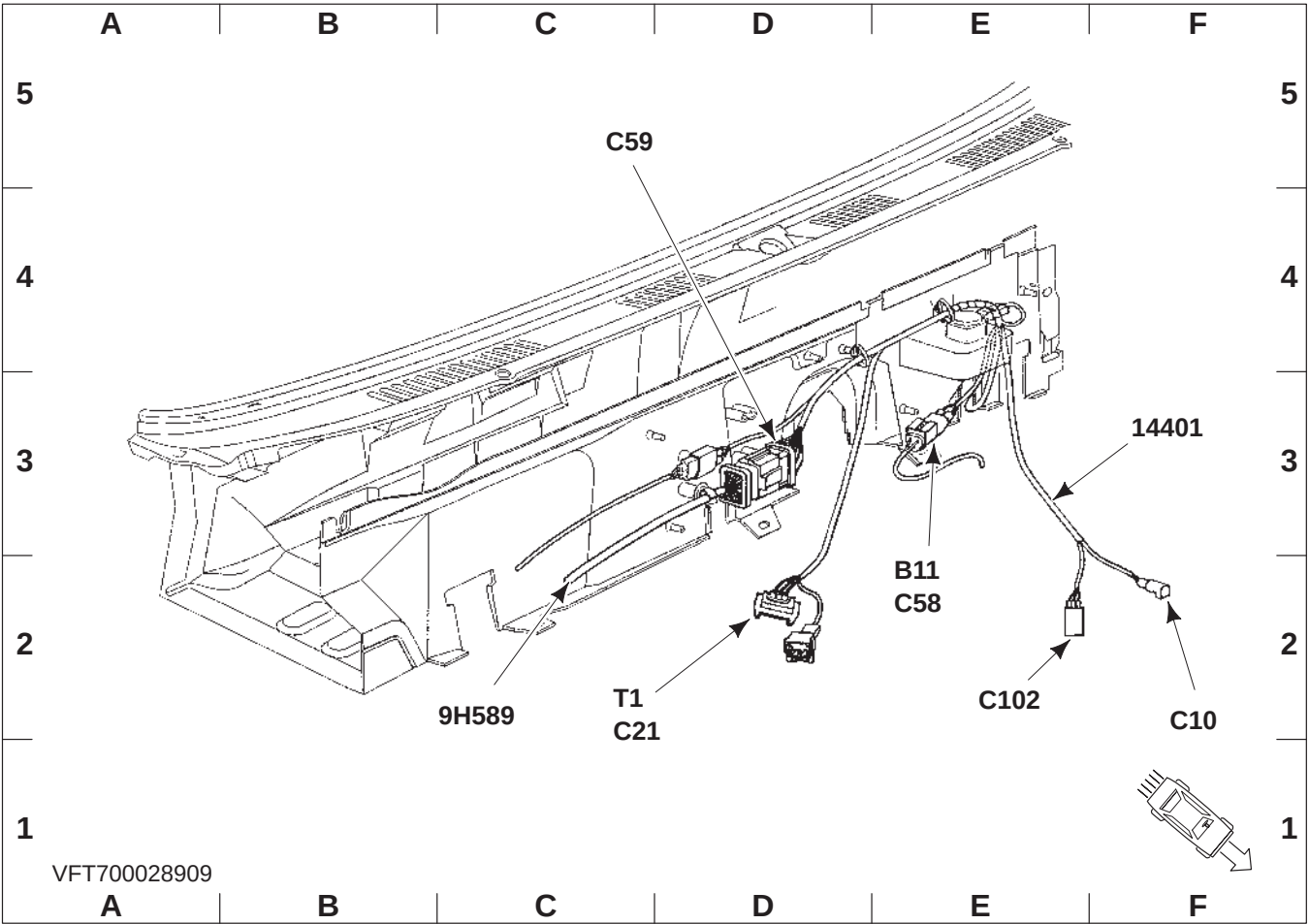
14300	Wiring harness – Battery output	D 1	C75		A 2
B11	.. Vehicle speed sensor (VSS)	F 5	C84		C 1
B43	.. Crankshaft position sensor	C 1	C93		B 2
C10		F 3	C102		E 4
C13a		B 1	G1		F 2
C13b		B 1	M8	.. Starter motor	B 1
C22a		A 3	N17	.. Oil pressure switch	B 2
C22b		A 3	N276	.. Transmission switch	E 1
C51		E 1	O5	.. Generator	A 3
C58		F 5	Y16	.. A/C Compressor clutch	A 2

Component Location Views

700-06-00

engine bulkhead, 1,6 l

-6



engine bulkhead, 1,6 l

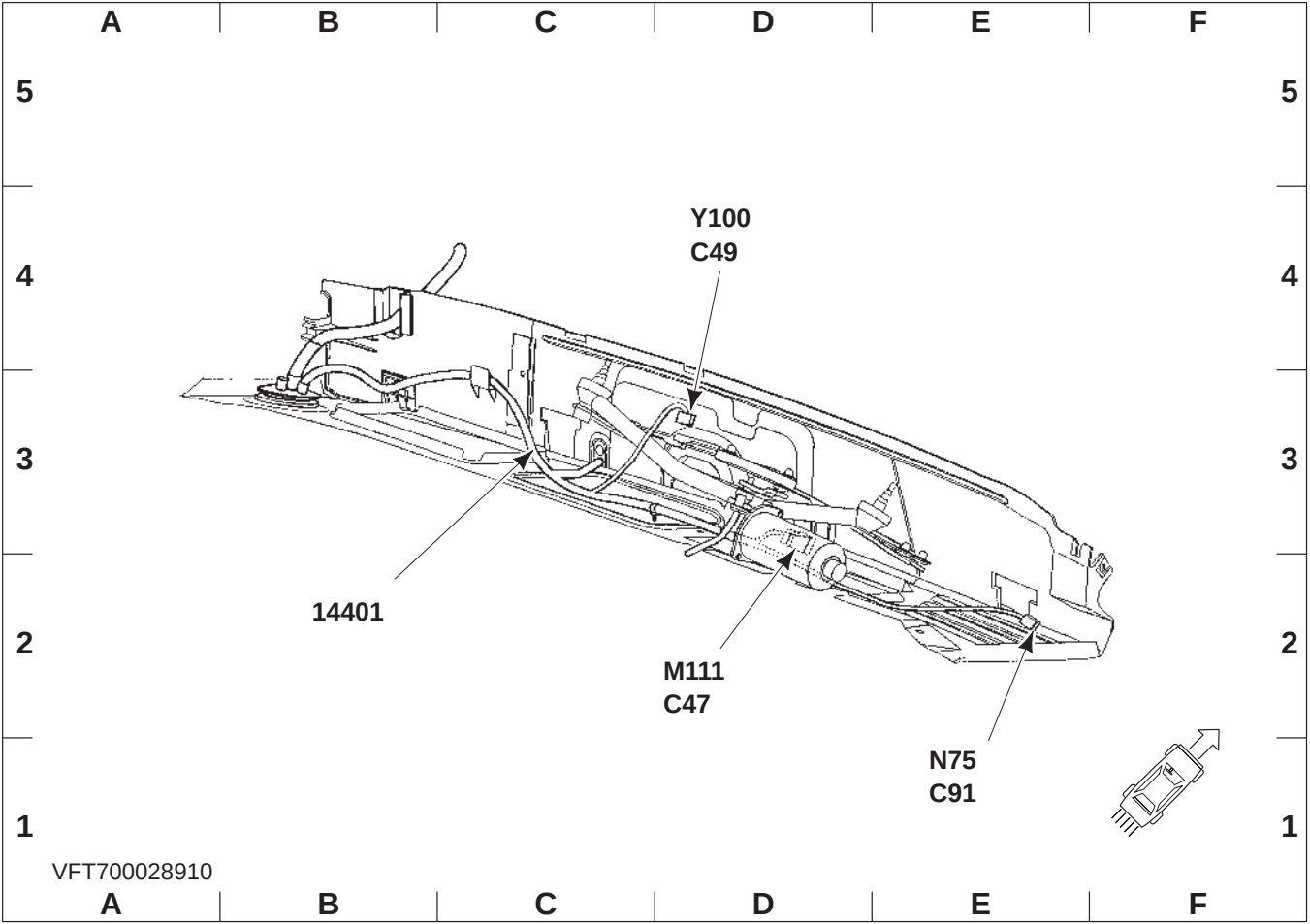
14401	Main wiring harness	F 3	C58	E 2	
9H589	Wiring harness – Fuel shutoff	C 2	C59	C 5	
B11 ..	Vehicle speed sensor (VSS)	E 2	C102	E 2	
C10		F 2	T1 ...	Ignition coil	C 2
C21		C 2			

Component Location Views

700-06-00

On engine bulkhead

-7



On engine bulkhead

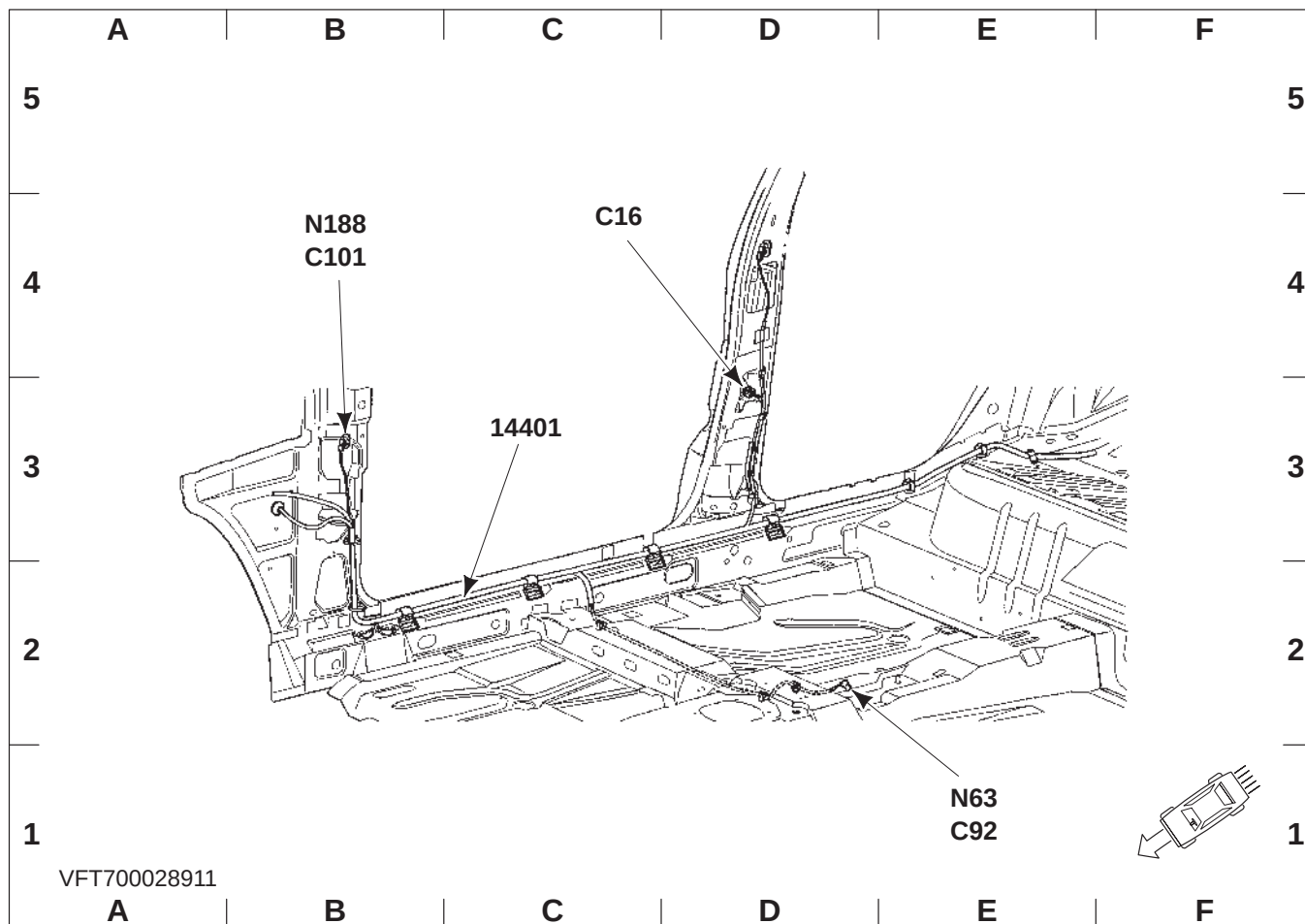
14401	Main wiring harness	B 2	M111	Windshield wiper motor	D 2
C47		D 2	N75	A/C Compressor cycling switch	E 1
C49		D 4	Y100	Heater control solenoid valve	D 4
C91		E 1			

Component Location Views

700-06-00

Vehicle floor, driver side

-8



Vehicle floor, driver side

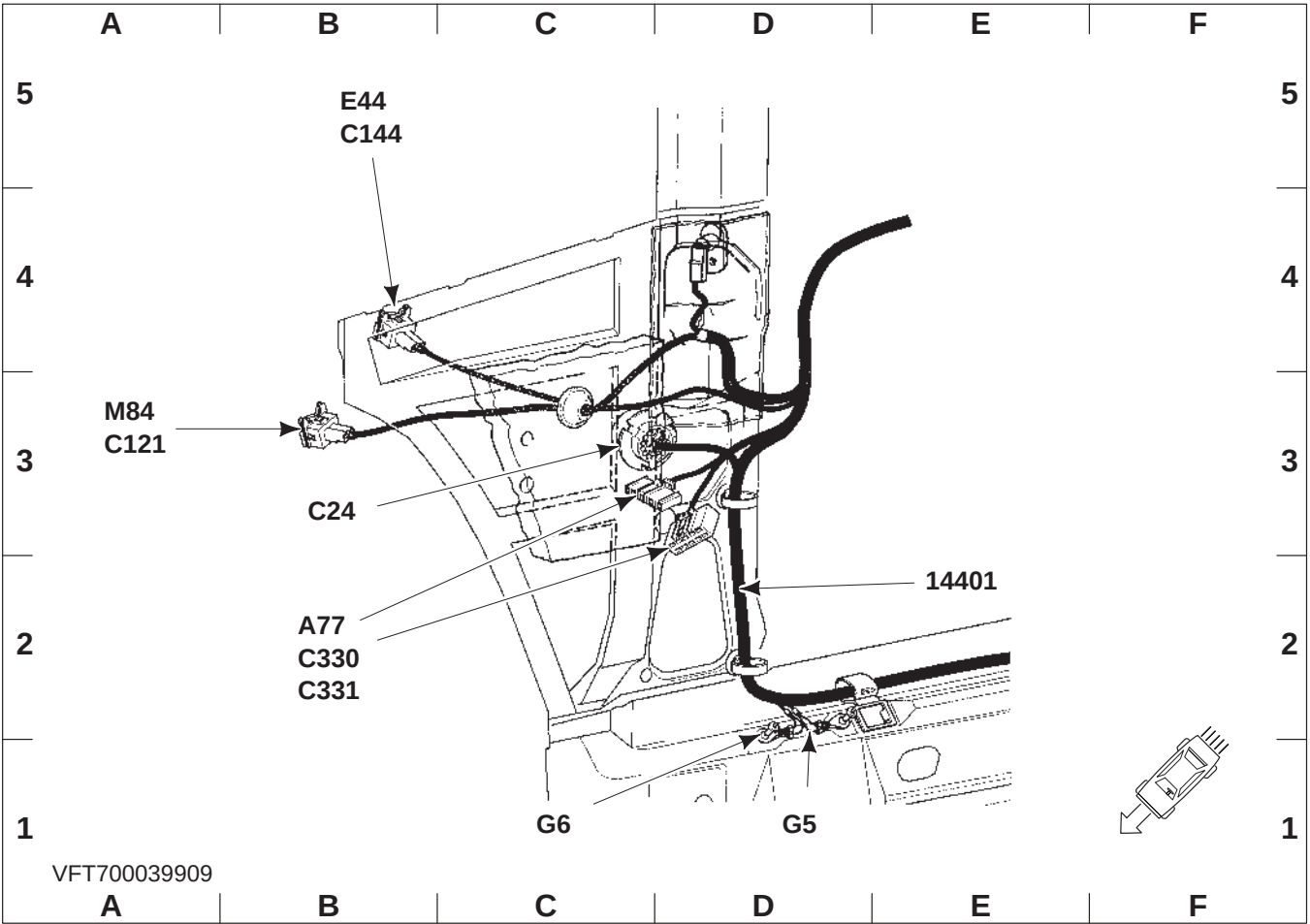
14401	Main wiring harness	C 3	C105		E 5
C16		C 4	N63	Park brake switch	E 1
C92		E 1	N188	Door entry switch, driver side	B 4
C101		B 4			

Component Location Views

700-06-00

RH A-pillar

-9



RH A-pillar

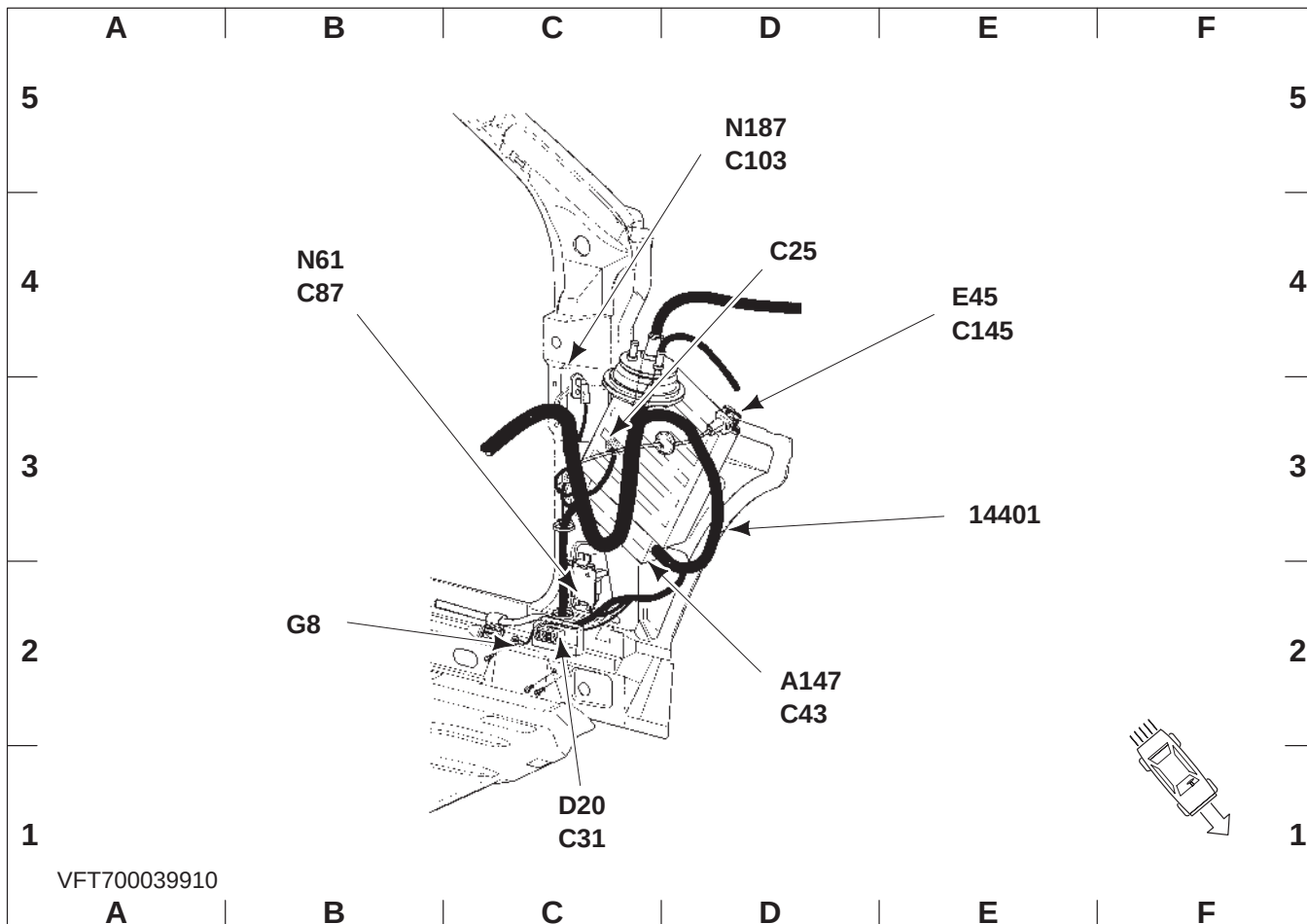
14401	Main wiring harness	E 2	C331	B 2	
A77	Anti-theft/central locking module	B 2	E44	Side direction indicator lamp, RH side	B 5
C24		B 3	G5		D 1
C121		A 3	G6		C 1
C144		B 5	M84	Washer pump motor, front and rear	A 3
C330		B 2			

Component Location Views

700-06-00

LH A-pillar

-10



LH A-pillar

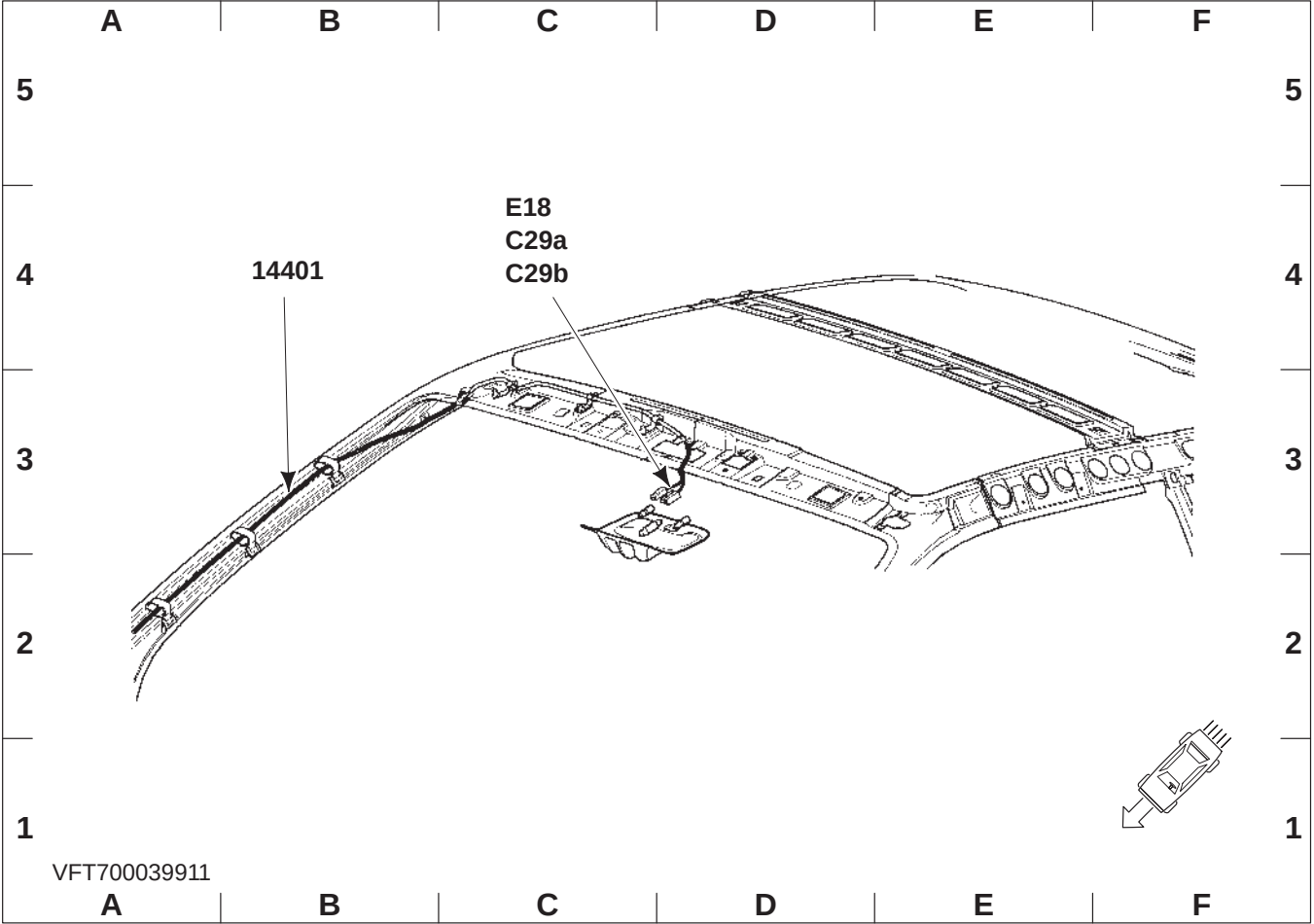
14401 Main wiring harness	E 3	C145	E 4
A147 . Powertrain control module (PCM)	D 2	D20 . . Data Link Connector (DLC)	C 1
C25	D 4	E45 . . Side direction indicator lamp, LH side . .	E 4
C31	C 1	G8	B 2
C43	D 2	N61 . . Inertia switch	B 4
C87	B 4	N187 . Door entry switch, passenger side	D 5
C103	D 5		

Component Location Views

700-06-00

In roof

-11



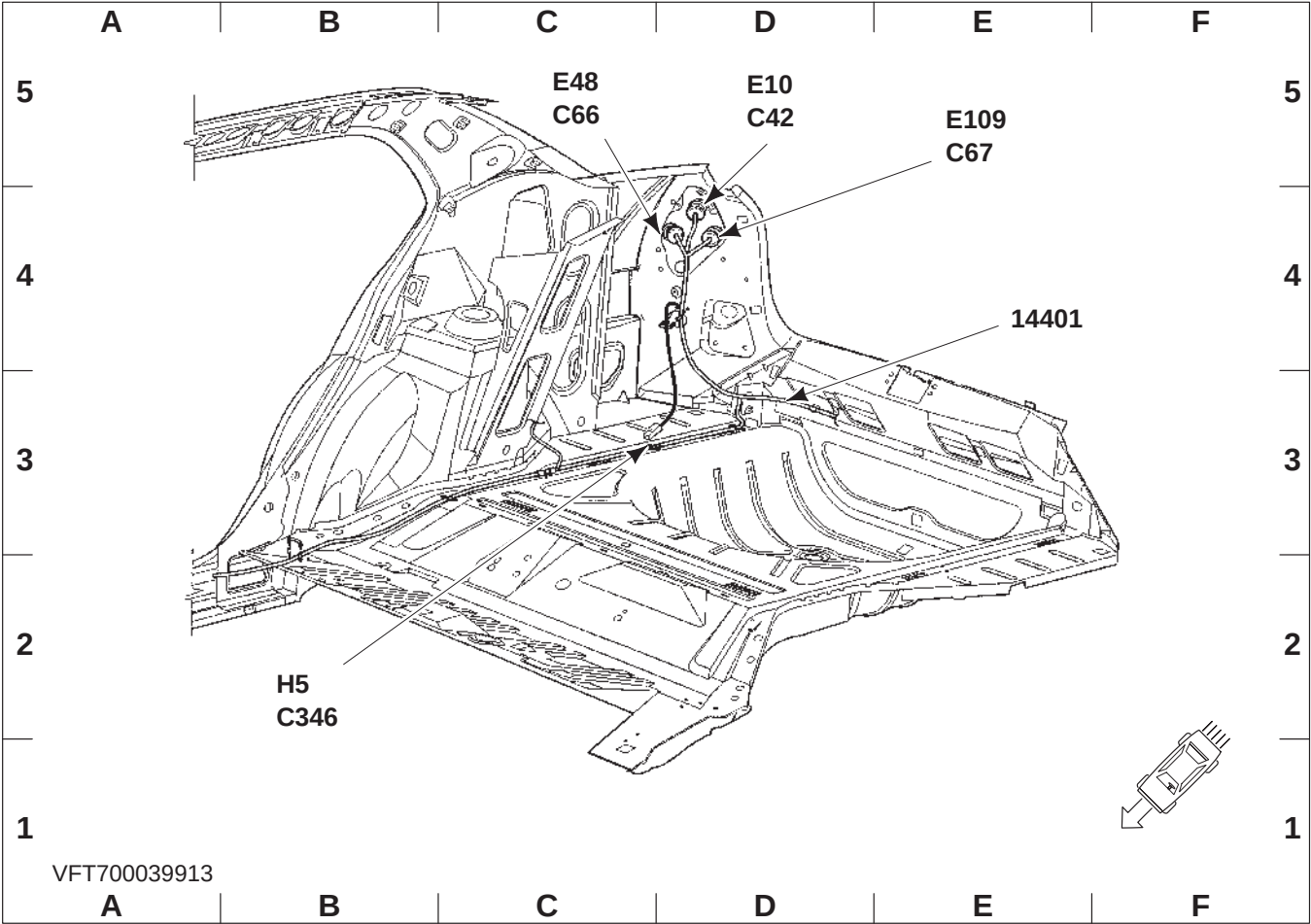
In roof

14401	Main wiring harness	B 4	C29b	C 4
C29a		C 4	E18	Interior lamp, front

Component Location Views

700-06-00

-13



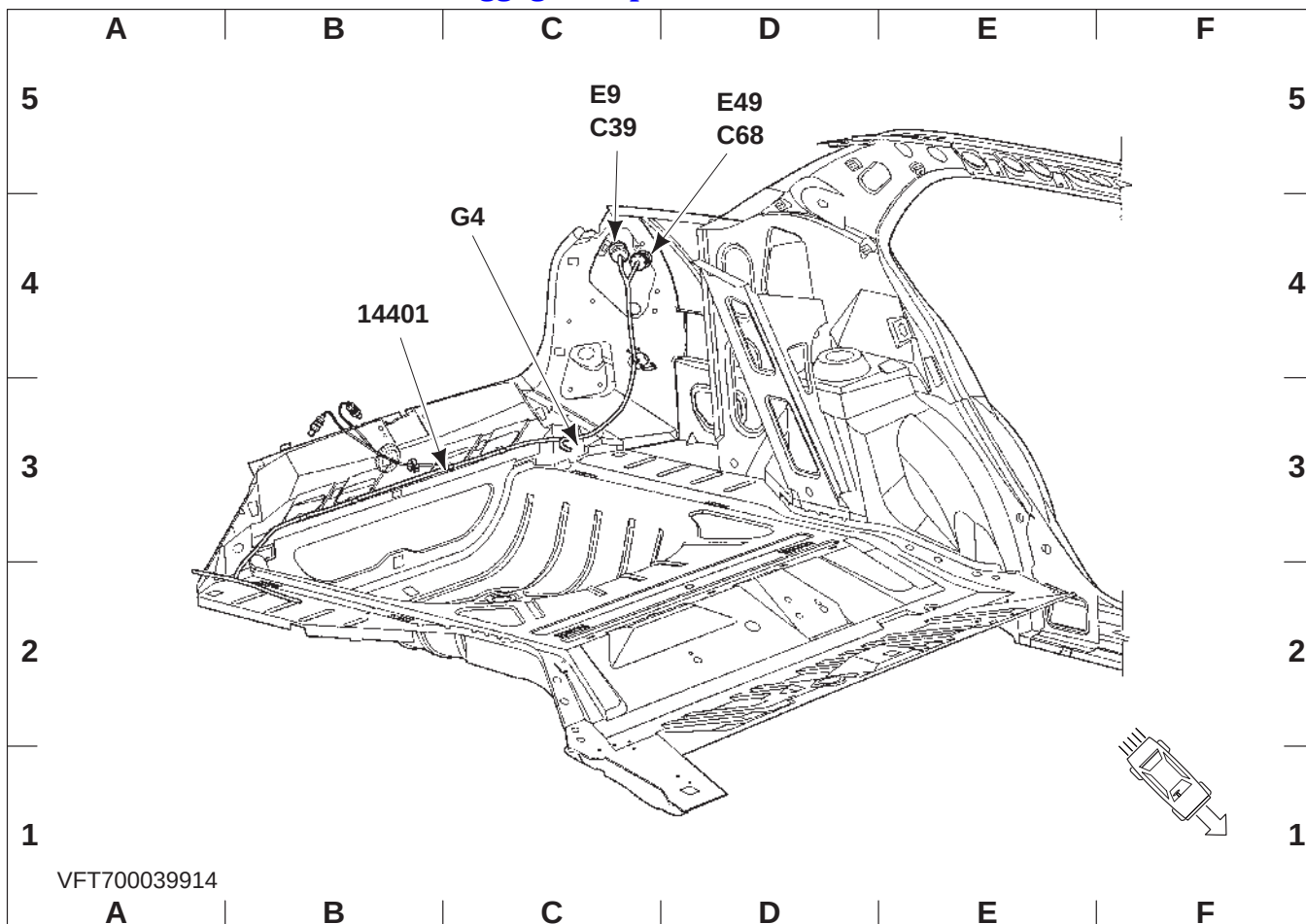
C42	D 5	E10 ..	Rear lamp assembly, RH side	D 5
C66	C 5	E48 ..	RH Rear direction indicator lamp	C 5
C67	E 5	E109 ..	Reversing lamp, right	E 5
C346	B 2	H5 ...	Anti-theft horn	B 2

Component Location Views

700-06-00

Luggage compartment, LH side

-14



Luggage compartment, LH side

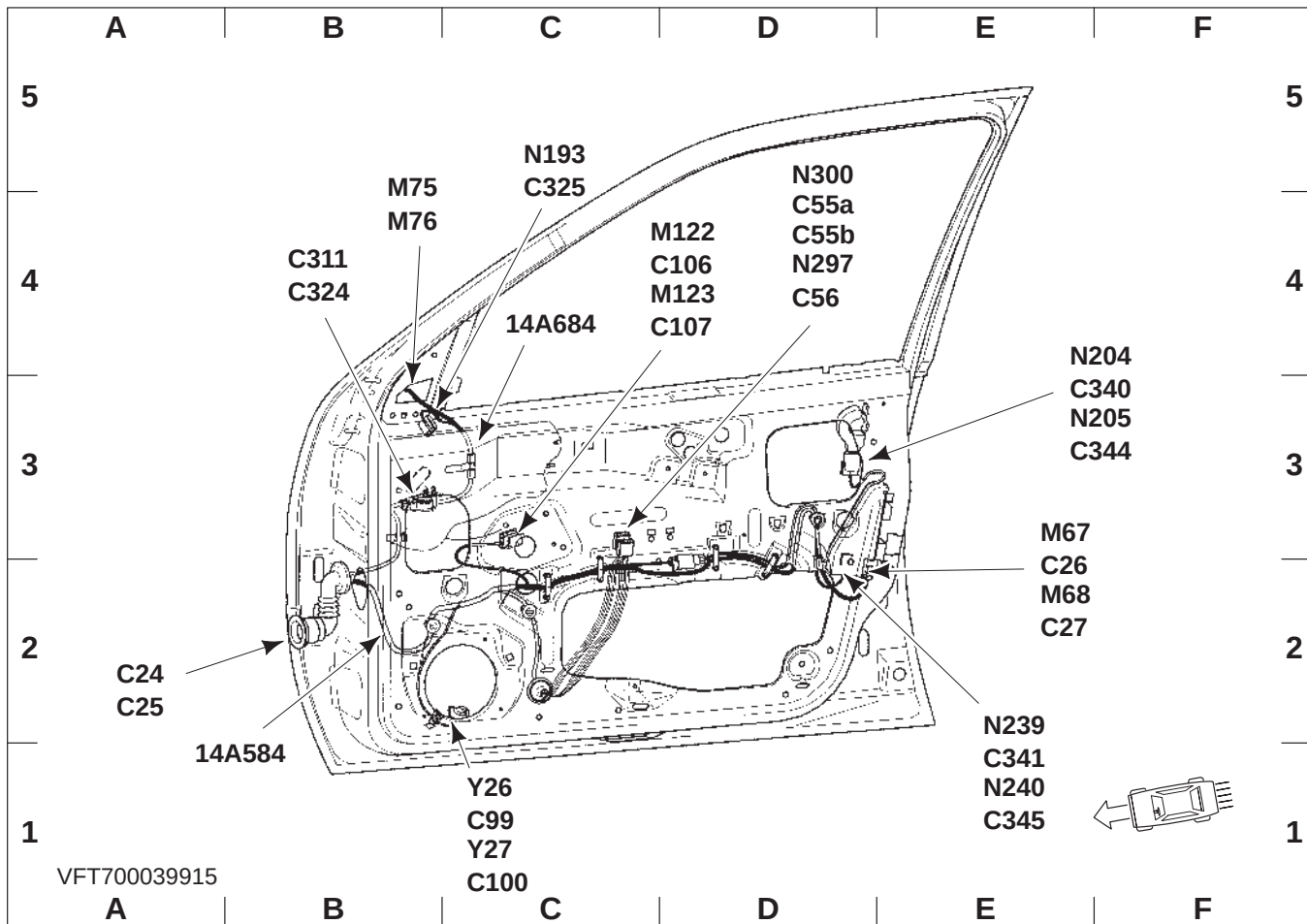
14401	Main wiring harness	B 4	E9 ...	Rear lamp assembly, LH side	C 5
C39		C 5	E49 ..	LH Rear direction indicator lamp	D 5
C68		D 5	G4		C 4

Component Location Views

700-06-00

Front door, Driver side shown, passenger side similar

-15



Front door, Driver side shown, passenger side similar

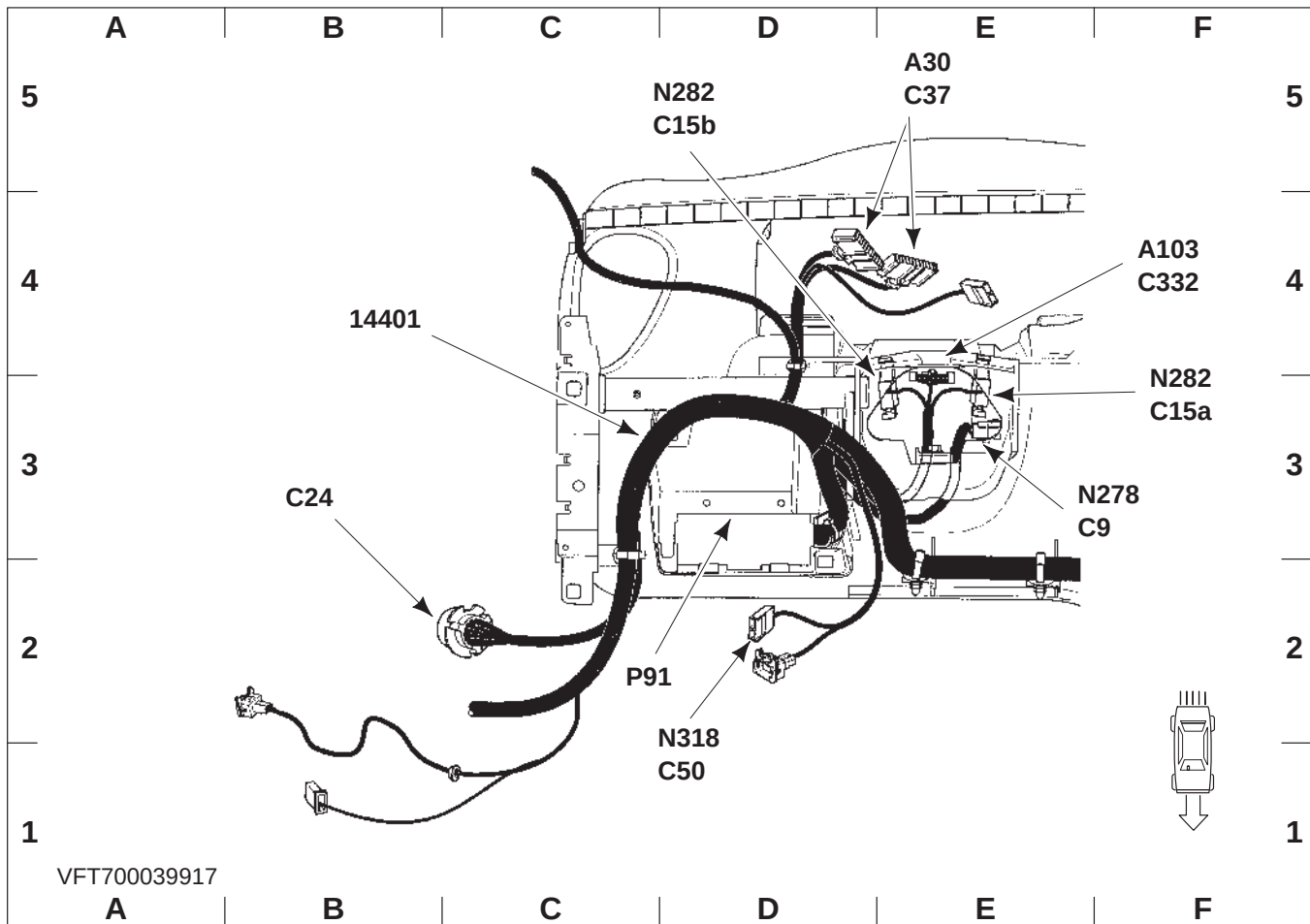
14A584 Wiring harness – Doors	B 1	C345	E 1
14A684 Wiring harness – Exterior rear view mirror control	C 4	M67 . Door lock motor, driver side	E 3
C24	A 2	M68 . Door lock motor, passenger side	E 2
C25	A 2	M75 . Mirror motor, driver side	B 5
C26	E 2	M76 . Mirror motor, passenger side	B 4
C27	E 2	M122 Window regulator motor, driver side front	D 4
C55a	D 4	M123 Window regulator motor, passenger side front	D 4
C55b	D 4	N193 . Power mirror adjust switch	C 5
C56	D 4	N204 . Door lock switch, driver side	F 4
C99	C 1	N205 . Door lock switch, passenger side	F 3
C100	C 1	N239 . Door ajar switch, driver side front	E 2
C106	D 4	N240 . Door ajar switch, passenger side front	E 1
C107	D 4	N297 . Window operating switch, passenger side front	D 4
C311	B 4	N300 . Window operating switch, driver side front (multiple)	D 5
C324	B 4	Y26 . Front door speaker, RH side	C 1
C325	C 5	Y27 . Front door speaker, LH side	C 1
C340	F 3		
C341	E 1		
C344	F 3		

Component Location Views

700-06-00

Dash panel – driver side

-17



Dash panel – driver side

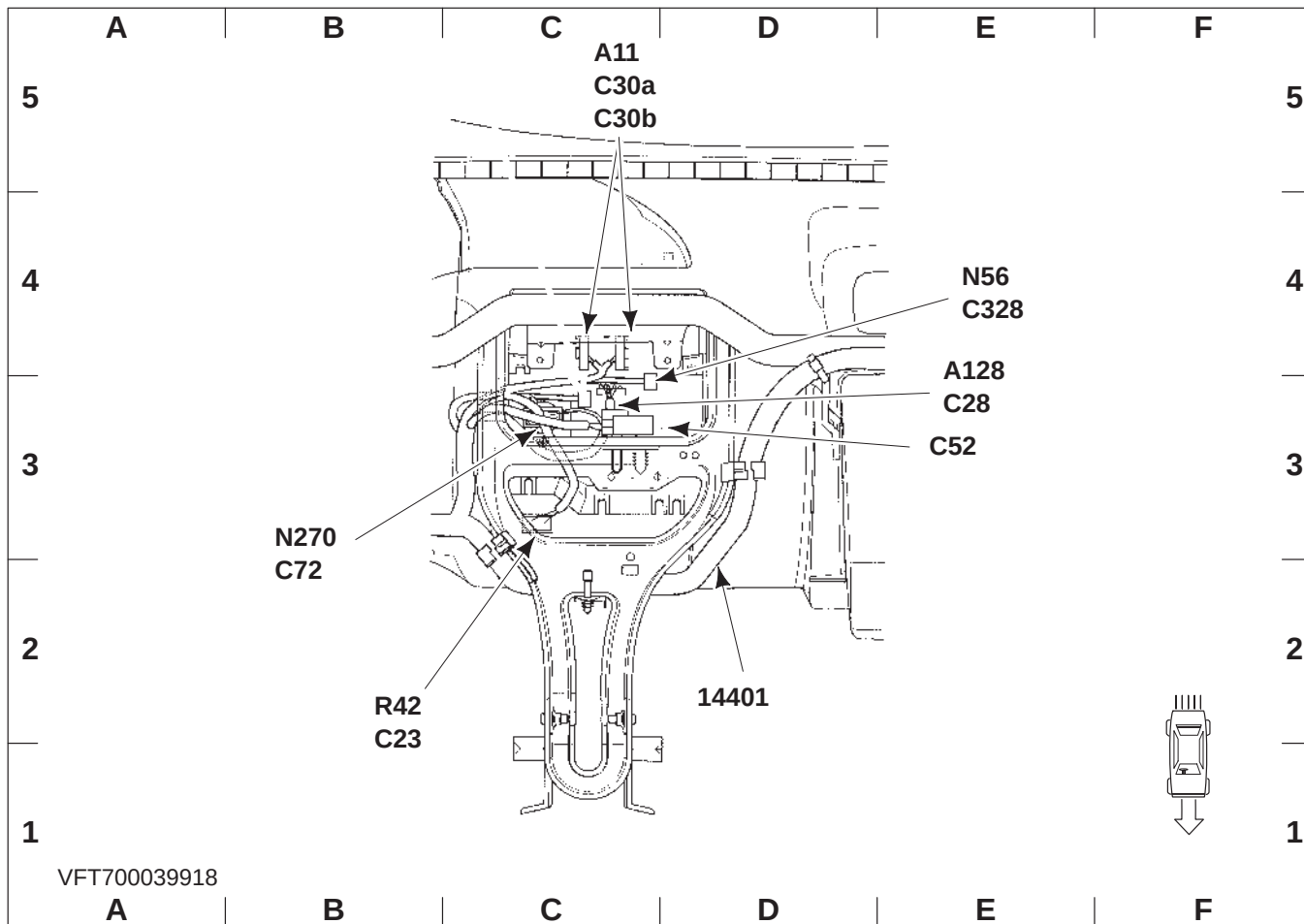
14401	Main wiring harness	B 4	C50		D 1
A30	Instrument cluster	E 5	C332		F 4
A103	Passive anti-theft module	F 4	N278	Ignition switch	F 3
C9		F 3	N282	Multifunction switch	F 3
C15a		F 3	N282	Multifunction switch	D 5
C15b		D 5	N318	Stop lamp switch	D 2
C24		B 3	P91	Central Junction Box (CJB)	C 2
C37		E 5			

Component Location Views

700-06-00

Dash panel – centre

-18



Dash panel – centre

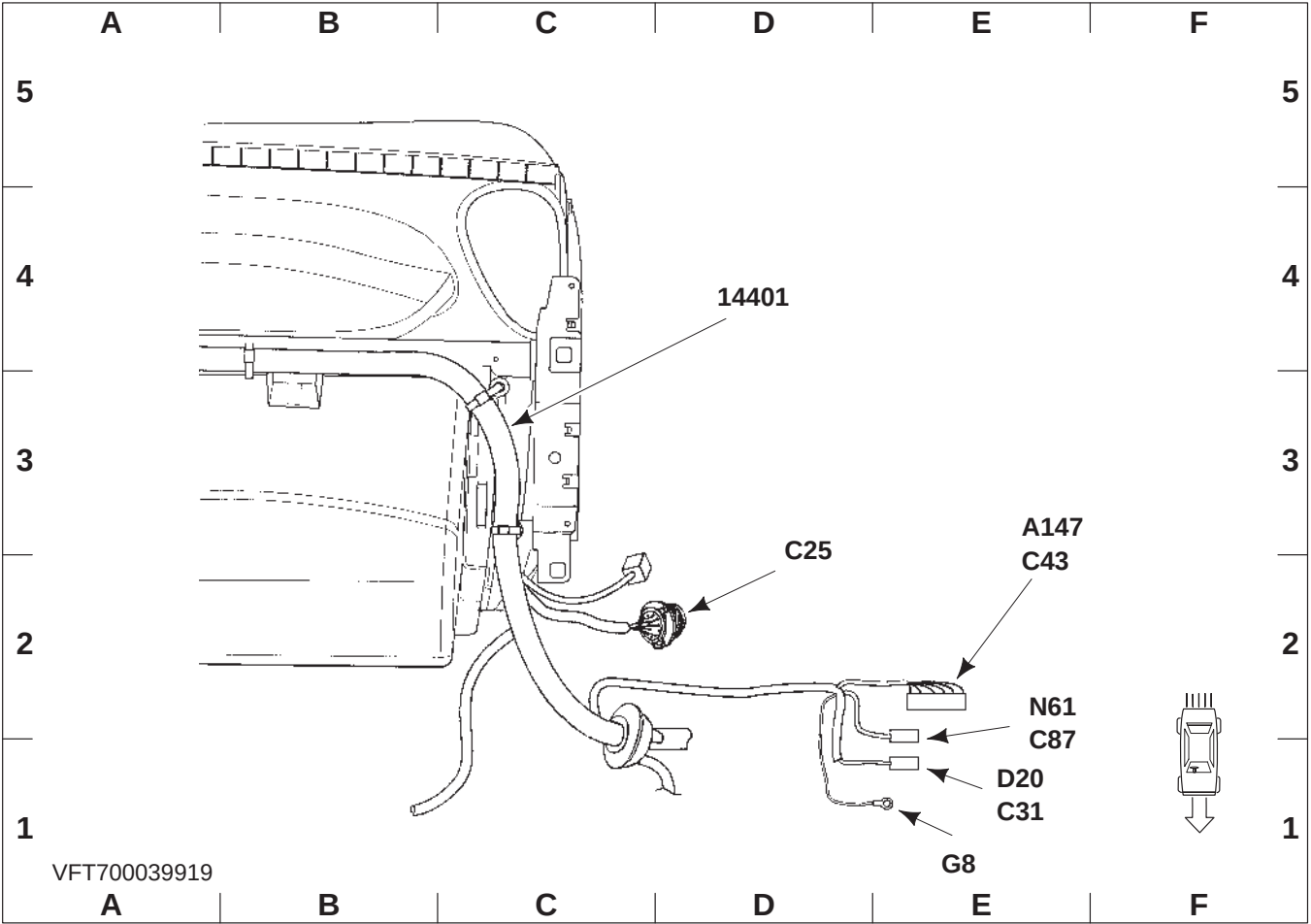
14401	Main wiring harness	D 2	C72	B 2	
A11	Radio	C 5	C124	C 5	
A128	Heater control module	E 4	C328	E 4	
C23		B 2			
C28		E 3	N56	Front fog lamp switch	E 4
C30a		C 5	N270	Heater blower switch	B 3
C30b		C 5	R42	Cigar lighter, front	B 2
C52		E 3			

Component Location Views

700-06-00

Dash panel – passenger side

-19



Dash panel – passenger side

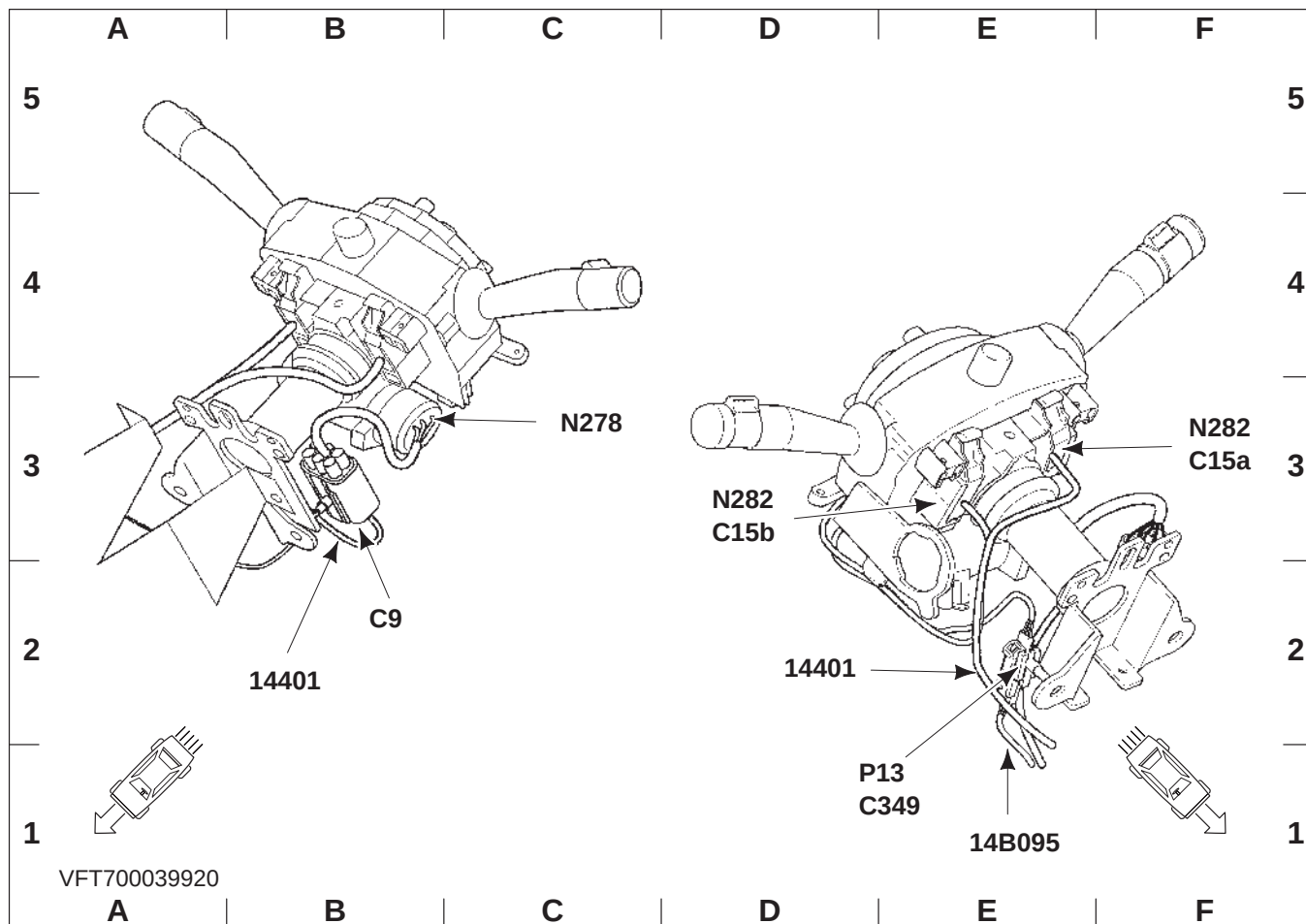
14401	Main wiring harness	D 4	C87	E 1	
A147	Powertrain control module (PCM)	E 3	D20	Data Link Connector (DLC)	E 1
C25		D 3	G8	E 1	
C31		E 1	N61	Inertia switch	E 2
C43		E 2			

Component Location Views

700-06-00

On steering column

-20



On steering column

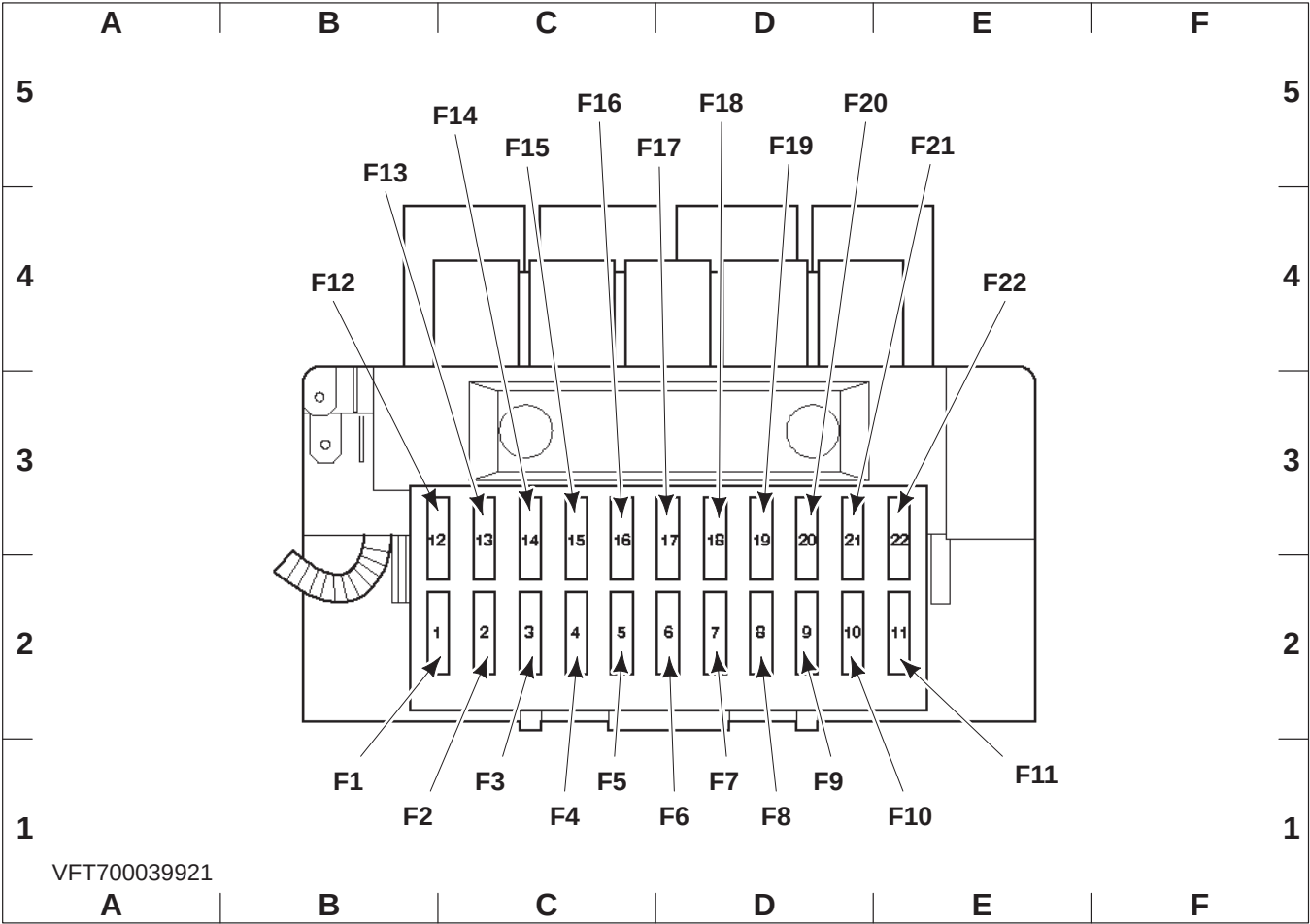
14B095 Wiring harness – Air bag(s)	E 1	C349	E 1
14401 Main wiring harness	D 2	N278 . Ignition switch	C 3
14401 Main wiring harness	B 2	N282 . Multifunction switch	F 3
C9	B 2	N282 . Multifunction switch	D 3
C15a	F 3	P13 .. Clock spring	E 1
C15b	D 3		

Component Location Views

700-06-00

Central Junction Box (CJB)

-21



Central Junction Box (CJB)

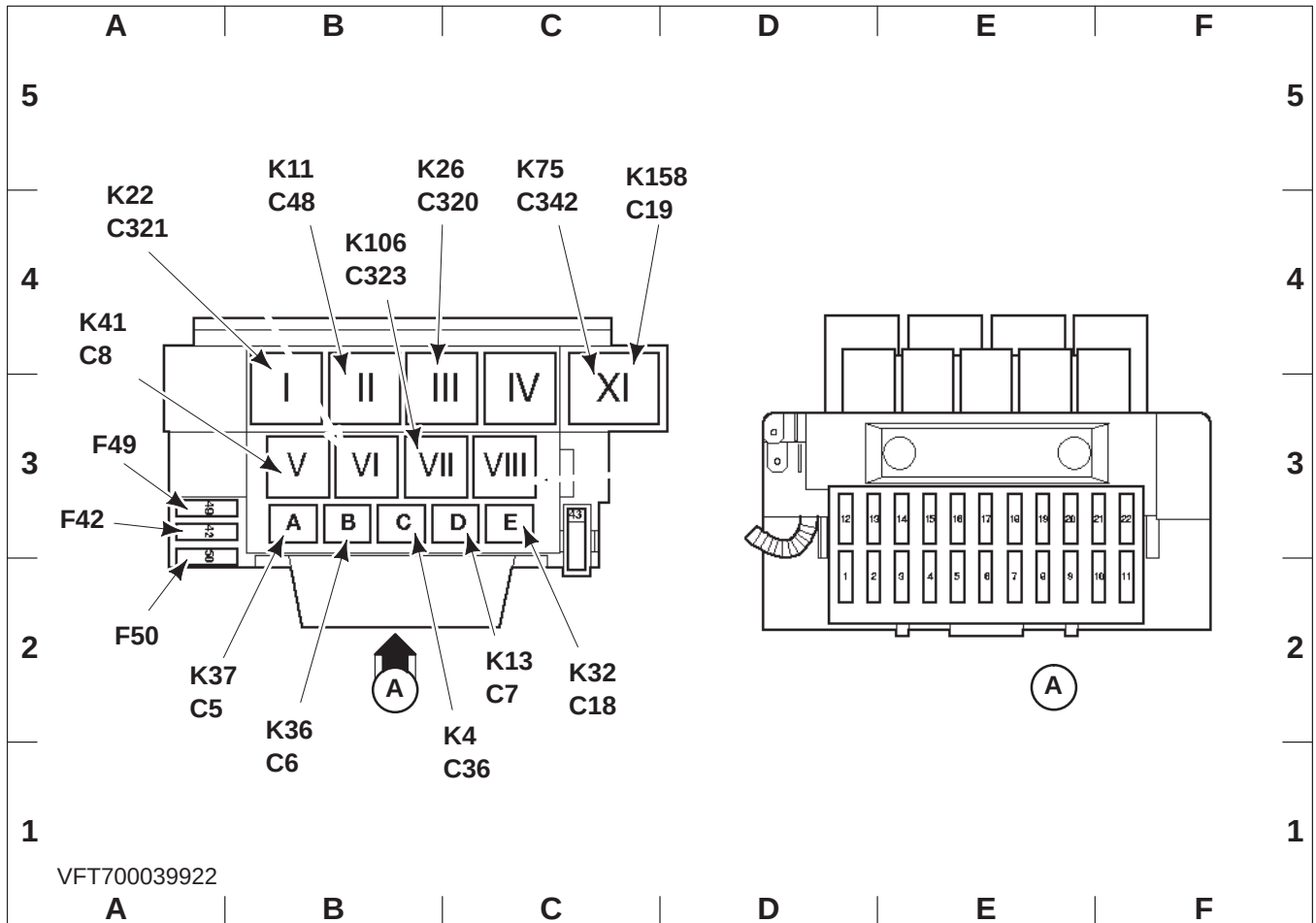
F1	B 1	F12	B 4
F2	B 1	F13	B 5
F3	C 1	F14	C 5
F4	C 1	F15	C 5
F5	C 1	F16	C 5
F6	D 1	F17	D 5
F7	D 1	F18	D 5
F8	D 1	F19	D 5
F9	D 1	F20	D 5
F10	E 1	F21	E 5
F11	E 1	F22	E 4

Component Location Views

700-06-00

Central Junction Box (CJB)

-22



Central Junction Box (CJB)

C5	A 2	F49	A 3
C6	B 1	F50	A 2
C7	C 2	K4 ... Fuel pump relay	C 2
C8	A 4	K11 .. Intermittent wiper relay, front	B 5
C18	C 2	K13 .. Power hold relay	C 2
C19	C 4	K22 .. Starter relay	A 4
C36	C 1	K26 .. Front fog lamp relay	B 5
C48	B 4	K32 .. A/C Wide Open Throttle (WOT) relay ..	C 2
C123	B 4	K36 .. Dipped beam relay	B 2
C320	C 4	K37 .. Main beam relay	A 2
C321	A 4	K41 .. Ignition relay	A 4
C322	D 3	K75 .. A/C Recirculation flap relay	C 5
C323	B 4	K106 .. Anti-theft flasher relay	B 4
C342	C 4	K158 .. A/C switch relay	D 5
F42	A 3		

Connector Views:

C1 C5 C2 C6 C3 C7 C4 C8 C9 C13b C10 C14 C15a C13a
C15b C18 C19 C16 C21 C22a C22b C24 C23 C25 C26 C27
C28 C30a C29a C30b C29b C31 C36 C37 C39 C40a C42
C40b C43 C45 C49 C46 C50 C47 C51 C48 C52 C53 C55a
C54 C55b C58 C59 C56 C64 C67 C65 C68 C69 C66 C75
C76 C72 C77 C73 C80 C82 C91 C84 C92 C87 C93 C90
C101 C99 C103 C100 C102 C111 C112 C106 C113 C107
C114 C115 C121 C116 C122 C117 C118 C145 C143 C183
C184 C144 C311 C320 C321 C318 C323 C324 C328 C329
C330 C327 C331 C333 C332 C334 C335 C340 C344 C341
C345 C342 C346 C343 C347 C348 C352 C349 C353 C350
C325 C351

Connector Views

700-07-00

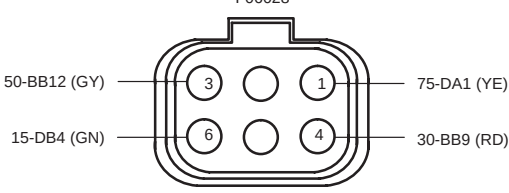
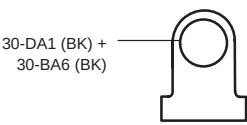
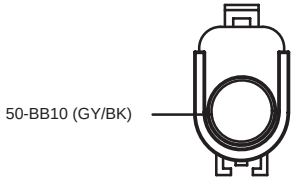
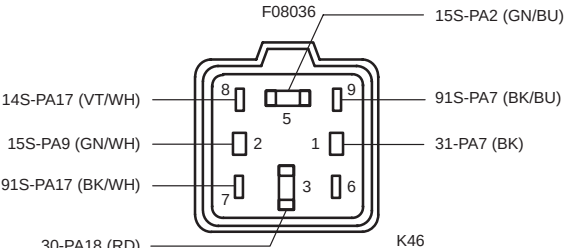
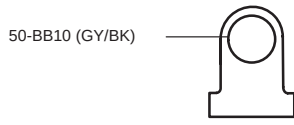
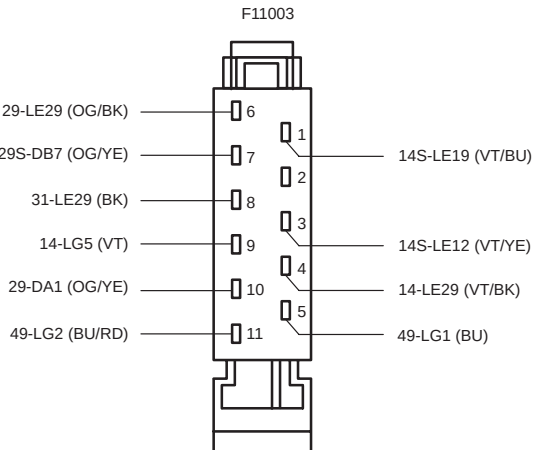
-1

C1 14401 F01002 30-DA1 (RD) P93 Battery Junction Box (BJB)	C5 14401 F04018 14S-LE12 (VT/YE) 2 31-LE12 (BK) 1 15S-DC4 (GN/BU)+ 15S-DC5 (GN/BU) 5 3 30-LE13 (RD) K37 Main beam relay
C2 14401 F01002 30-BA1 (RD) P93 Battery Junction Box (BJB)	C6 14401 F04018 14S-LE19 (VT/BU) 2 (1) 1 15S-DC6 (GN/BU) + 15S-DC7 (GN/BU) 5 3 30-LE20 (RD) K36 Dipped beam relay (1) 31-LE19 (BK) 31-PD14 (BK) + 31-LE19 (BK)
C3 14401 F01002 30-DA2 (RD) P93 Battery Junction Box (BJB)	C7 14401 F04018 29-PD14 (OG/YE) 2 31S-PD14 (BK/YE) 1 14S-PC35 (VT/BU) + 14S-PD1 (VT/BU) 5 3 29-PD15 (OG/BU) K13 Power hold relay
C4 14401 F01002 30-PA18 (RD) P93 Battery Junction Box (BJB)	C8 14401 F05038 15-BB7 (GN/BU) 1 3 4 2 5 30-BB8 (RD) 31 15-DB3 (GN/RD) K41 Ignition relay

Connector Views

700-07-00

-2

C9 14401 F06028  50-BB12 (GY) — 3 — 75-DA1 (YE) 15-DB4 (GN) — 6 — 30-BB9 (RD) N278 Ignition switch	C13b 14300 F01001  30-DA1 (BK) + 30-BA6 (BK) M8 Starter motor
C10 14300 F01009  50-BB10 (GY/BK) 14401 F01010  50-BB10 (GY/BK)	C14 14401 F08036  14S-PA17 (VT/WH) — 8 — 15S-PA2 (GN/BU) 15S-PA9 (GN/WH) — 2 — 91S-PA7 (BK/BU) 91S-PA17 (BK/WH) — 7 — 31-PA7 (BK) 30-PA18 (RD) — 4 — K46 High speed engine cooling fan relay
C13a 14300 F01001  50-BB10 (GY/BK) M8 Starter motor	C15a (BK) 14401 F11003  29-LE29 (OG/BK) — 6 — 14S-LE19 (VT/BU) 29S-DB7 (OG/YE) — 7 — 14S-LE12 (VT/YE) 31-LE29 (BK) — 8 — 14-LE29 (VT/BK) 14-LG5 (VT) — 9 — 49-LG1 (BU) 29-DA1 (OG/YE) — 10 — 49-LG2 (BU/RD) — 11 — N282 Multifunction switch

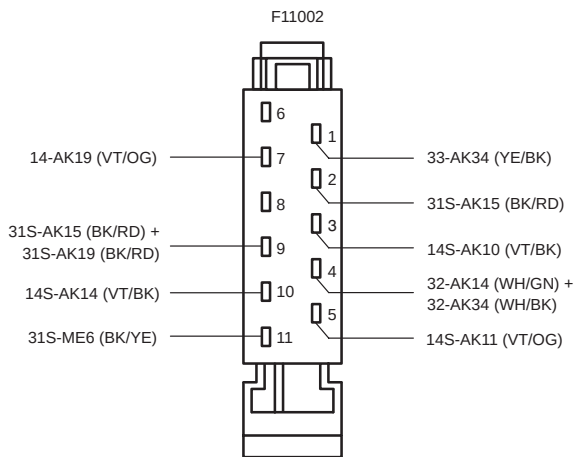
Connector Views

700-07-00

-3

C15b (WH)

14401

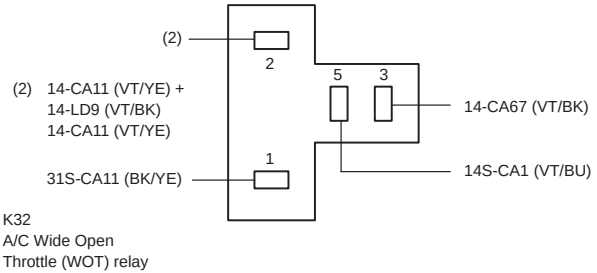


N282
Multifunction switch

C18

14401

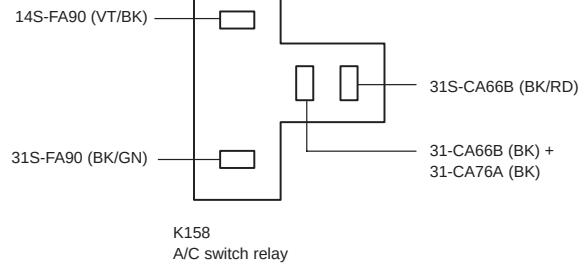
F04018



C19

14401

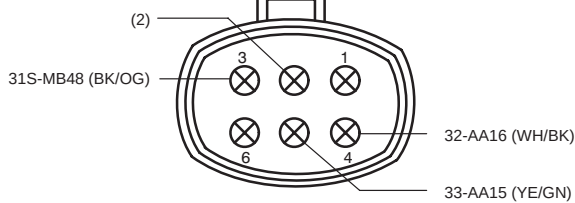
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C16

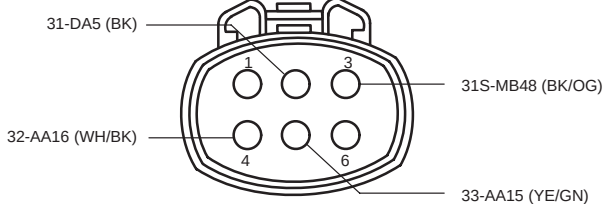
14A584

F06008



14401

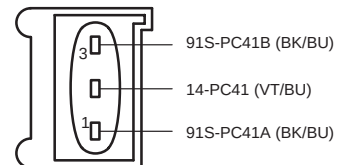
F06007



C21

14401

F03045

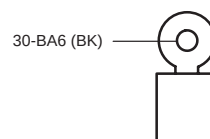


T1
Ignition coil

C22a (RD)

14300

F01002



O5
Generator

Connector Views

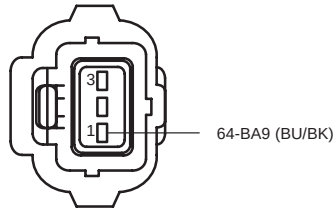
700-07-00

-4

C22b

14300

F03093

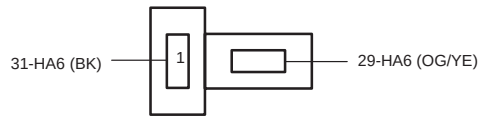


O5
Generator

C23

14401

F02009

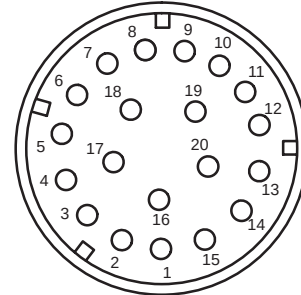


R42
Cigar lighter, front

C24

14A584

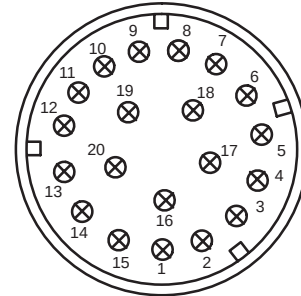
F20003



- | | |
|---------------------|-----------------------|
| (1) 32-MD28 (WH) | (8) 10-AD11 (GY/WH) |
| (2) 31-DA1 (BK) | (9) 14-AJ7 (VT/BU) |
| 31-AA48 (BK) | (10) 33-MD28 (YE) |
| (3) 9-AD17 (BN/GN) | (11) 32-AJ18 (WH/VT) |
| (4) 29-AA47 (OG/BK) | (12) 8-AD10 (WH/BK) |
| 29-AA48 (OG/BU) | (13) 14S-HB35 (VT/BK) |
| (5) 33-AJ18 (YE/VT) | (14) 29-AD12 (OG/YE) |
| (6) 32-AA11 (WH/VT) | (16) 10-AA45 (GY/RD) |
| 32-AA21 (WH/GN) | (17) 31S-MB46 (BK/YE) |
| (7) 33-AA10 (YE/BK) | (18) 8-AA45 (WH/RD) |
| 33-AA20 (YE/BU) | |

14401

F20002



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|---------------------|-----------------------|
| (1) 32-MD17 (WH/RD) | (9) 14-AJ7 (VT/BU) |
| (2) 31-DA7 (BK) | (10) 33-MD17 (YE/RD) |
| (3) 9-AD17 (BN/GN) | (11) 32-AJ18 (WH/VT) |
| (4) 29-AA47 (OG/BK) | (12) 8-AD10 (WH/BK) |
| (5) 33-AJ18 (YE/VT) | (14) 29-AD12 (OG/YE) |
| (6) 32-AA11 (WH/VT) | (16) 10-AA45 (GY/RD) |
| (7) 33-AA10 (YE/BK) | (17) 31S-MB46 (BK/YE) |
| (8) 10-AD11 (GY/WH) | (18) 8-AA45 (WH/RD) |

Connector Views

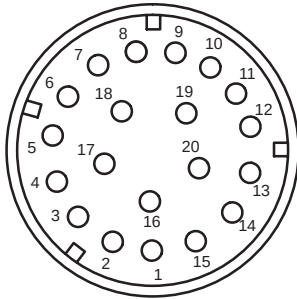
700-07-00

-5

C25

14A584

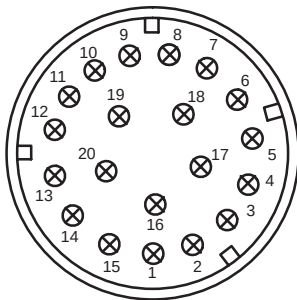
F20003



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|---------------------|-----------------------|
| (1) 32-MD28 (WH) | (9) 14-AJ18 (VT/WH) |
| (2) 31-DA1 (BK) | (10) 33-MD28 (YE) |
| 31-AA48 (BK) | (11) 32-AJ18 (WH/VT) |
| (3) 9-AD17 (BN/GN) | (12) 8-AD10 (WH/BK) |
| (4) 29-AA48 (OG/BU) | (13) 14S-HB36 (VT/OG) |
| (5) 33-AJ18 (YE/VT) | (16) 10-AA46 (GY/WH) |
| (6) 32-AA21 (WH/GN) | (17) 31S-MB47 (BK/BU) |
| (7) 33-AA20 (YE/BU) | (18) 8-AA46 (WH/VT) |
| (8) 10-AD11 (GY/WH) | |

14401

F20002

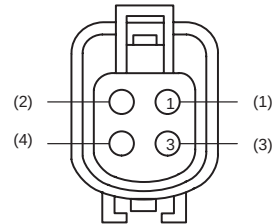


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|---------------------|-----------------------|
| (1) 32-MD10 (WH/BK) | (9) 14-AJ18 (VT/WH) |
| (2) 31-DA4 (BK) | (10) 33-MD10 (YE/BK) |
| (3) 9-AD17 (BN/GN) | (11) 32-AJ18 (WH/VT) |
| (4) 29-AA48 (OG/BU) | (12) 8-AD10 (WH/BK) |
| (5) 33-AJ18 (YE/VT) | (16) 10-AA46 (GY/WH) |
| (6) 32-AA21 (WH/GN) | (17) 31S-MB47 (BK/BU) |
| (7) 33-AA20 (YE/BU) | (18) 8-AA46 (WH/VT) |
| (8) 10-AD11 (GY/WH) | |

C26

14A584

F04013



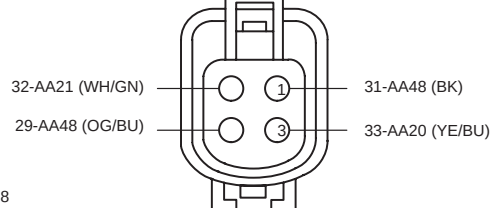
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|---------------------|---------------------|
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| 31-AA48 (BK) | 33-AA20 (YE/BU) |
| (2) 32-AA11 (WH/VT) | (4) 29-AA47 (OG/BK) |
| 32-AA21 (WH/GN) | 29-AA48 (OG/BU) |

M67
Door lock motor,
driver side

C27

14A584

F04013



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|-----------------|-----------------|
| 32-AA21 (WH/GN) | 31-AA48 (BK) |
| 29-AA48 (OG/BU) | 33-AA20 (YE/BU) |

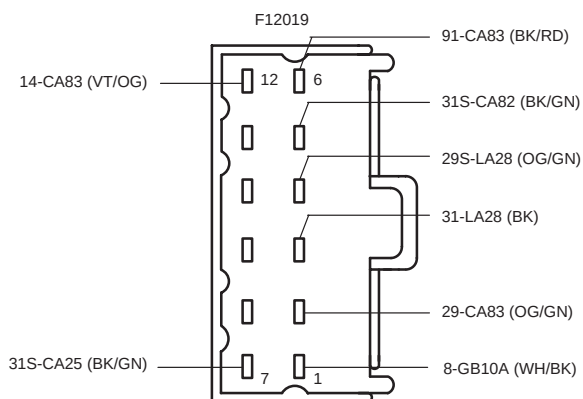
M68
Door lock motor,
passenger side

Connector Views

700-07-00

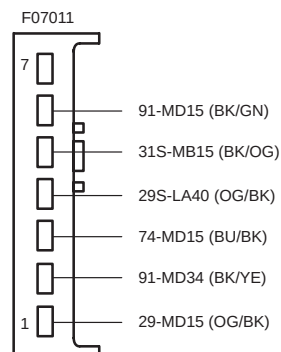
-6

C28 14401



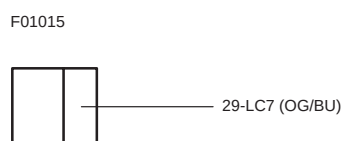
A128
Heater control mod-
ule

C30a 14401



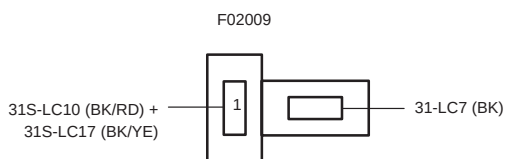
A11
Radio

C29a 14401



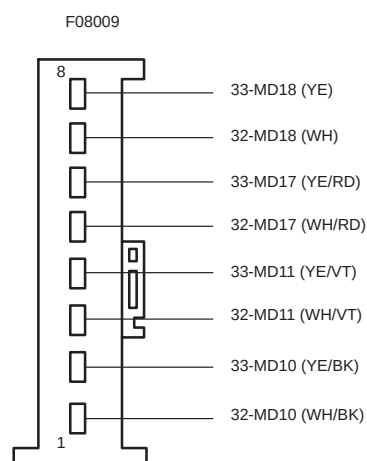
E18
Interior lamp, front

C29b 14401



E18
Interior lamp, front

C30b 14401



A11
Radio

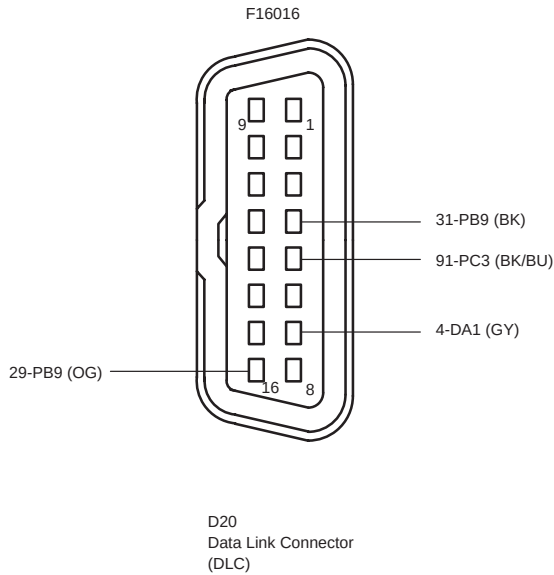
Connector Views

700-07-00

-7

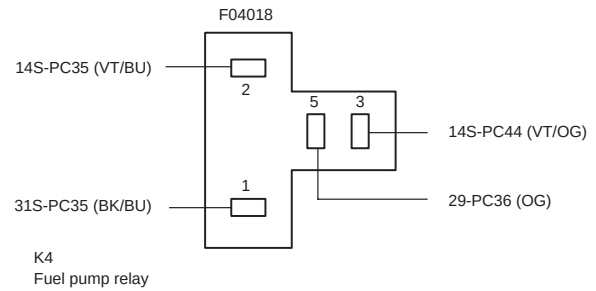
C31

14401



C36

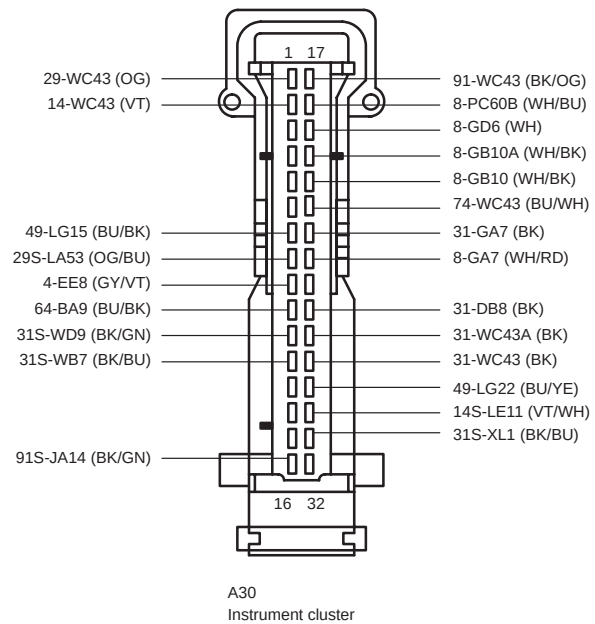
14401



C37

14401

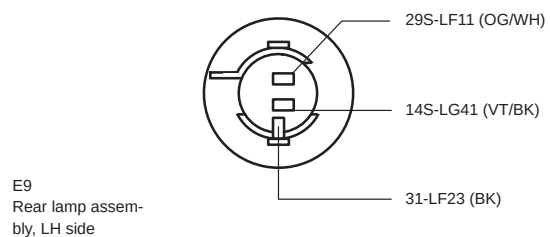
F32004



C39 (BN)

14401

F03132



Connector Views

700-07-00

-8

C40a 14401 F01015 29S-LF12 (OG/BK) E88 Licence plate lamp	C42 (BN) 14401 F03132 29S-LF20 (OG) 14S-LG38 (VT) 31-LF24 (BK) E10 Rear lamp assembly, RH side
C40b 14401 F01015 31-LF12 (BK) E88 Licence plate lamp	

C43

14401

F55002

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(1) 91S-PC41A (BK/BU)

(2) 91-PC28B (BK/YE)

(3) 31S-PC35 (BK/BU)

(4) 91S-PC40 (BK/YE)

(5) 7-MB37 (YE/GN)

(6) 91S-PA17 (BK/WH)

(7) 8-PC55 (WH/GN)

(8) 8-MB37 (WH/GN)

(9) 8-PC60A (WH/BU)

(10)

(11) 8-PC53 (WH/BK)

(12) 7-PC64 (YE)

(13)

(14) 91-PC28 (BK/YE)

(15) 91S-PA7 (BK/BU)

(16) 91S-PC46 (BK/YE)

(17) 91S-PC45 (BK/WH)

(18) 29-PC28 (OG/YE)

(19) 31-PC28 (BK)

(20) 91S-PC41B (BK/BU)

(21)

(22) 31S-BB12 (BK/YE)

(23) 8-GD6 (WH)

(24) 91-PC28A (BK/YE)

(25) 31S-CA11 (BK/YE)

(26) 10-MB37 (GY/OG)

(27) 14-PC28 (VT/YE)

(28) 8-PC71 (WH/VT)

(29)

(30) 9-PC1 (BN/RD)

(31)

(32)

(33)

(34) 91S-PC48 (BK/OG)

(35) 91S-PC47 (BK/BU)

(36)

(37) 14S-PC28 (VT/YE)

(38)

(39)

(40) 31S-PC72 (BK/BU)

(41) 31S-CA12A (BK/BU)

(42)

(43) 8-GB10 (WH/BK)

(44) 8-PC11 (WH/VT)

(45) 8-PC31 (WH/GN)

(46) 31S-PD14 (BK/YE)

(47)

(48) 9-PC19 (BN/RD)

(49) 8-PC19 (WH/RD)

(50)

(51) 74-MB37 (BU/BK)

(52) 31S-PA5A (BK/BU)

(53) 8-PC64 (WH)

(54) 31S-MB36 (BK/BU)

(55) 4-PB10 (GY/VT)

A147
Powertrain control module (PCM)

Connector Views

700-07-00

-9

C45 14401 F07017 E1 Headlamp, LH side	C49 14401 F02012 Y100 Heater control sole-noid valve
C46 14401 F07017 E7 Headlamp, RH side	C50 14401 F02003 N318 Stop lamp switch
C47 14401 F05024 M111 Windshield wiper motor	C51 14401 F03015 N276 Transmission switch
C48 14401 F07005 K11 Intermittent wiper relay, front	

Connector Views

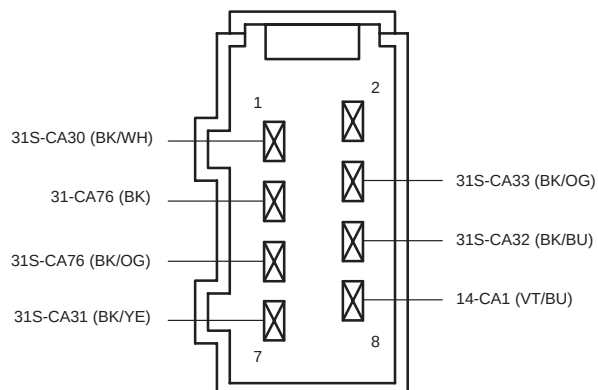
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-10

C52 (GY)

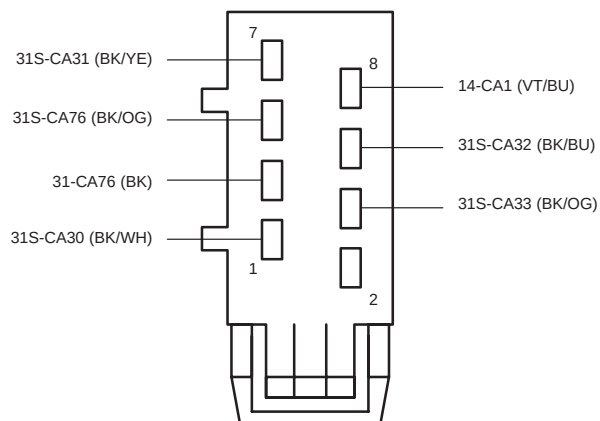
14401

F08114



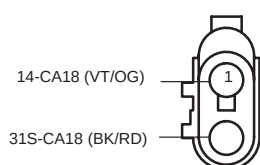
18B518

F08112



C53
18B518

F02005

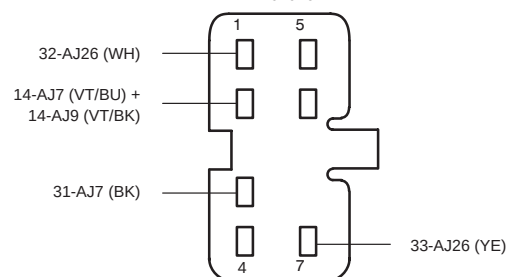


M3
Heater blower motor

C55a

14A584

F07016

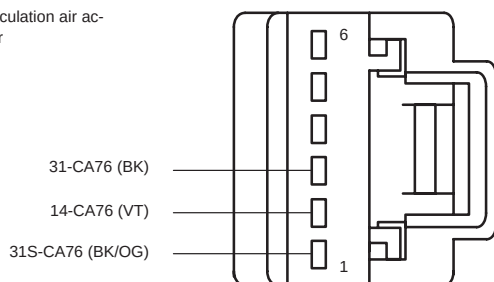


N300
Window operating
switch, driver side
front (multiple)

C54
18B518

F06128

M69
Recirculation air ac-
tuator



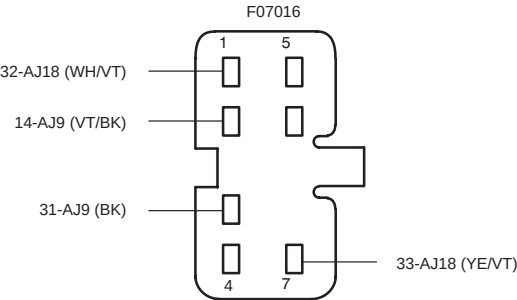
Connector Views

700-07-00

-11

C55b (BU)

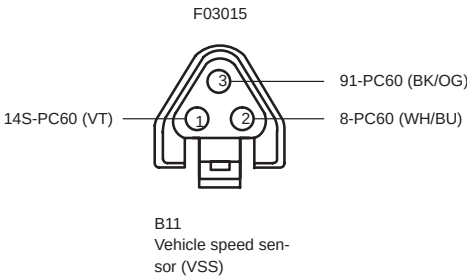
14A584



N300
Window operating
switch, driver side
front (multiple)

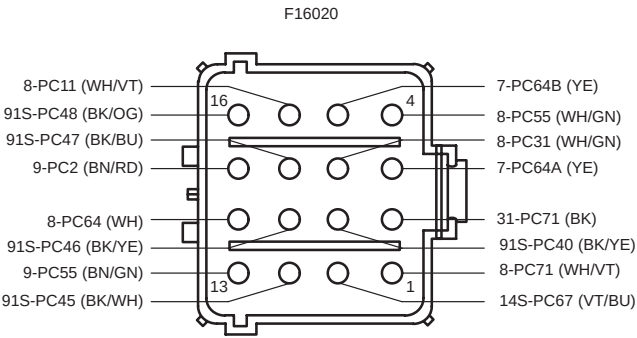
C58

14401



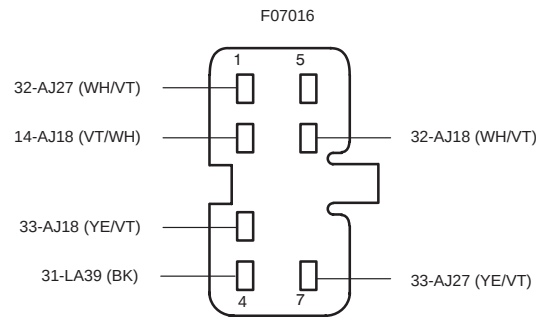
C59

14401



C56 (BU)

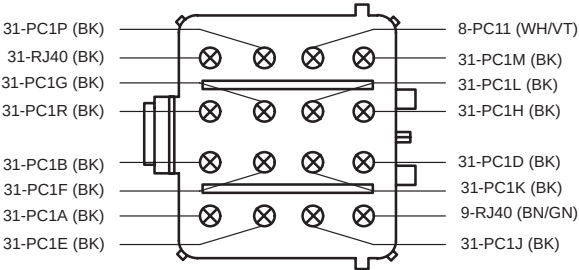
14A584



N297
Window operating
switch, passenger
side front

9H589

F16020.01

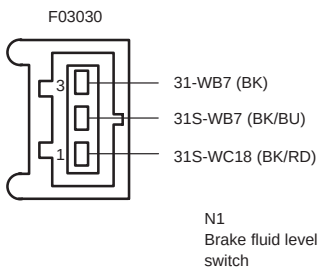


Connector Views

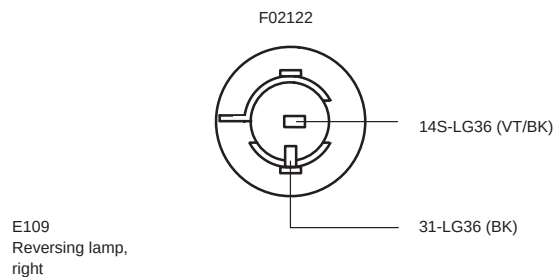
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-12

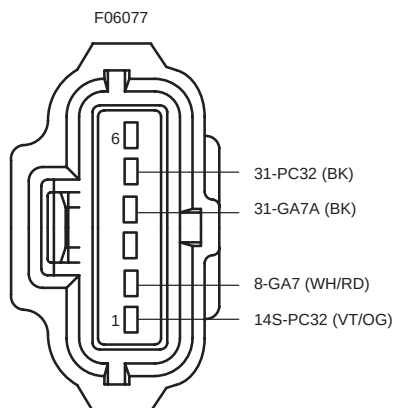
C64
14401



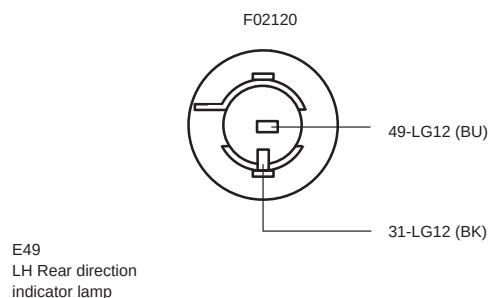
C67 (WH)
14401



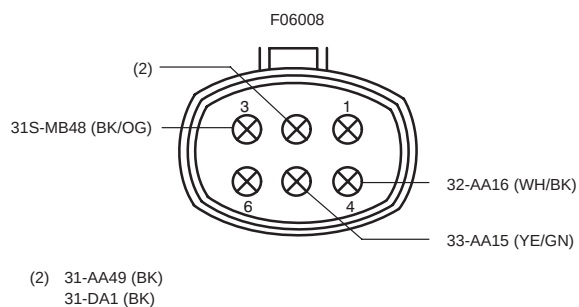
C65
14401



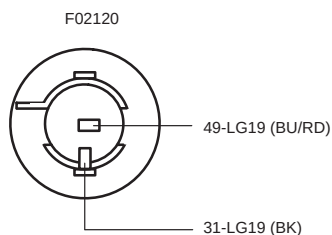
C68 (OG)
14401



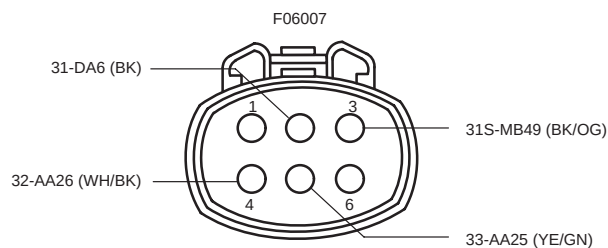
C69
14A584



C66 (OG)
14401



14401



Connector Views

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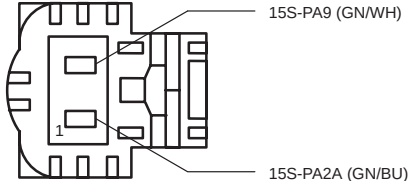
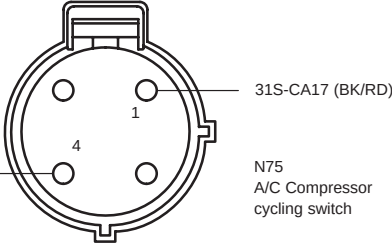
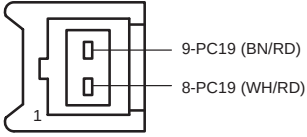
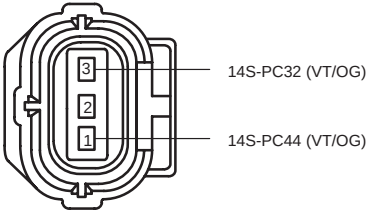
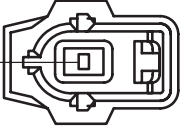
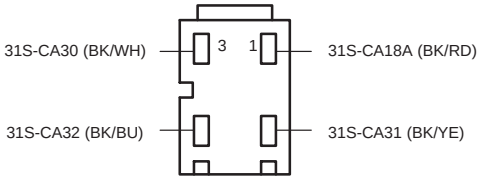
-13

	C75 14401 F03073 Y16 A/C Compressor clutch
	C76 14401 F02005 V7 A/C Compressor clutch diode
C72 14401 F06023 N270 Heater blower switch	C77 14401 F04030 N76 Dual pressure switch
C73 14401 F02017 M37 Engine cooling fan motor	C80 14401 F01015 H1 Horn

Connector Views

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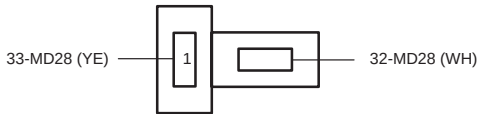
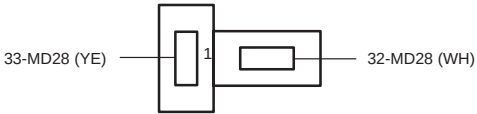
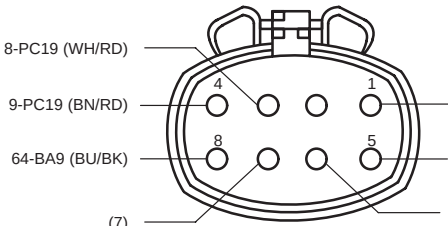
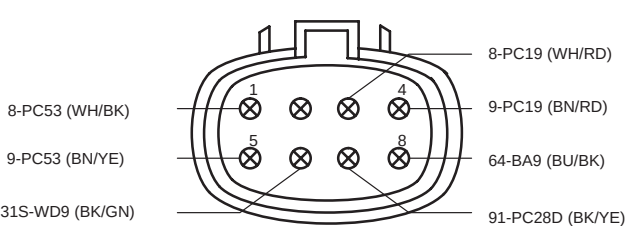
-14

C82 14401 F02025  R27 Engine cooling fan resistor	C91 14401 F04083  N75 A/C Compressor cycling switch
C84 14300 F02012  B43 Crankshaft position sensor	C92 14401 F01013  N63 Park brake switch
C87 14401 F03130  N61 Inertia switch	C93 14300 F01016  N17 Oil pressure switch
C90 18B518 F04029  R21 Heater blower series resistor	

Connector Views

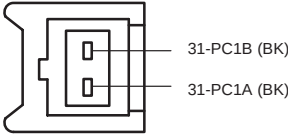
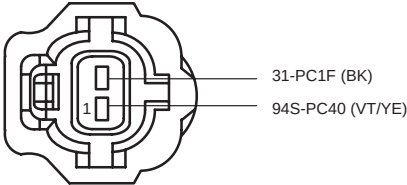
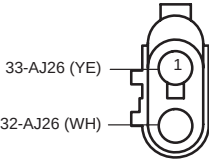
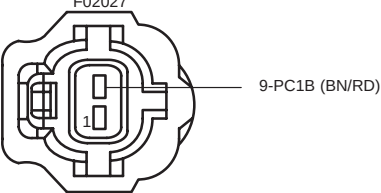
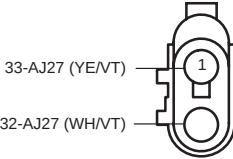
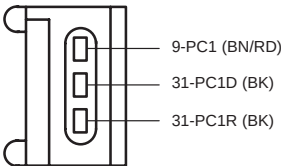
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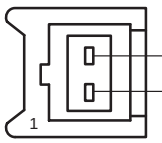
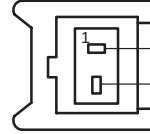
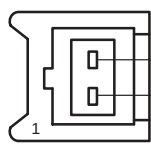
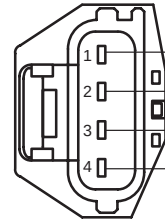
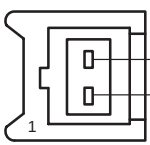
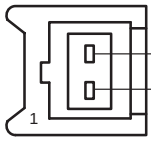
-15

	C101 13A318 F01015  31S-LC29 (BK/RD) N188 Door entry switch, driver side
C99 (YE) 14A584 F02009  33-MD28 (YE) 32-MD28 (WH) Y26 Front door speaker, RH side	C103 13A318 F01015  31S-LC29 (BK/RD) N187 Door entry switch, passenger side
C100 (YE) 14A584 F02009  33-MD28 (YE) 32-MD28 (WH) Y27 Front door speaker, LH side	
14300 F08008  8-PC19 (WH/RD) 9-PC19 (BN/RD) 64-BA9 (BU/BK) (7) (7) 91-PC28 (BK/YE) 91-PC28D (BK/YE)	C102 14401 F08027  8-PC19 (WH/RD) 9-PC19 (BN/RD) 64-BA9 (BU/BK) 91-PC28D (BK/YE) 8-PC53 (WH/BK) 9-PC53 (BN/YE) 31S-WD9 (BK/GN)

Connector Views

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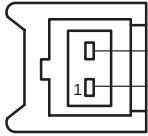
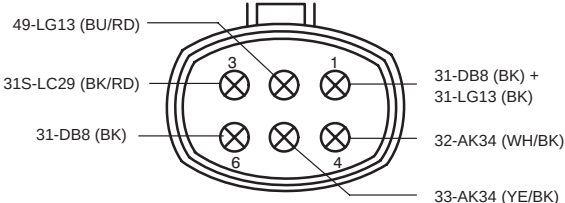
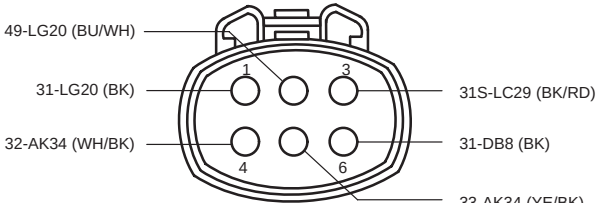
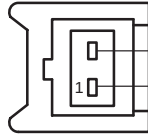
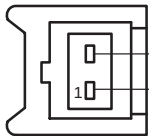
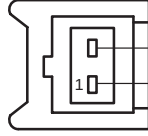
	C111 9H589 F02012  B41 Camshaft position sensor
	C112 9H589 F02027  Y13 Idle speed control valve
C106 14A584 F02005  M122 Window regulator motor, driver side front	C113 9H589 F02027  B10 Engine Coolant Temperature (ECT) sensor
C107 14A584 F02005  M123 Window regulator motor, passenger side front	C114 9H589 F03027  B8 Throttle Position Sensor (TPS)

C115 9H589 F02012  31-PC1J (BK) 94S-PC45 (VT/WH) 1 Y108 Injector 1	C121 13A318 F02014  32-AK34 (WH/BK) 33-AK34 (YE/BK) M84 Washer pump motor, front and rear
C116 9H589 F02012  31-PC1K (BK) 94S-PC46 (VT/YE) 1 Y109 Injector 2	C122 9H589 F04130  31-RJ40 (BK) 31-PC1P (BK) 8-PC11 (WH/VT) 9-RJ40 (BN/GN) B142 Temperature mani- fold absolute pres- sure sensor
C117 9H589 F02012  31-PC1L (BK) 94S-PC47 (VT/BU) 1 Y110 Injector 3	
C118 9H589 F02012  31-PC1M (BK) 94S-PC48 (VT) 1 Y111 Injector 4	

Connector Views

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	C145 13A318 F02012  49-LG13 (BU/RD) 31-LG13 (BK) E45 Side direction indicator lamp, LH side
C143 13A318 F06008  49-LG13 (BU/RD) 31S-LC29 (BK/RD) 31-DB8 (BK) 31-DB8 (BK) + 31-LG13 (BK) 32-AK34 (WH/BK) 33-AK34 (YE/BK) 14401 F06007  49-LG20 (BU/WH) 31-LG20 (BK) 32-AK34 (WH/BK) 31S-LC29 (BK/RD) 31-DB8 (BK) 33-AK34 (YE/BK)	C183 14401 F02012  31-LD17 (BK) 14S-LD17 (VT/WH) E42 Fog lamp, RH side front
C144 13A318 F02012  49-LG13 (BU/RD) 31-LG13 (BK) E44 Side direction indicator lamp, RH side	C184 14401 F02012  31-LD11 (BK) 14S-LD11 (VT/WH) E43 Fog lamp, LH side front

Connector Views

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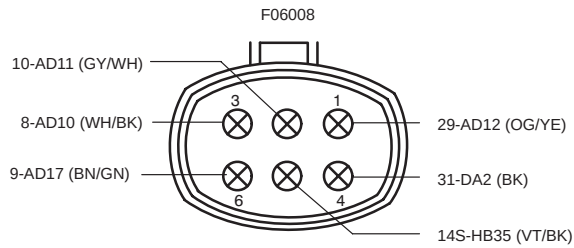
C311 14A584 F06008 10-AD11 (GY/WH) 8-AD10 (WH/BK) 9-AD17 (BN/GN) 31-HB36 (BK) 14S-HB36 (VT/OG)	C320 14401 F05038 29S-LD8 (OG) K26 Front fog lamp relay 14S-LD11 (VT/WH) + 14S-LD17 (VT/WH) 31 14-LD9 (VT/BK)
14A684 F06007 10-AD11 (GY/WH) 8-AD10 (WH/BK) 9-AD17 (BN/GN) 31-HB36 (BK) 14S-HB36 (VT/OG)	C321 14401 F05038 50-BB12 (GY) K22 Starter relay 50-BB10 (GY/BK) 31S-BB12 (BK/YE) 30-BB13 (RD)
C318 13A318 F03005 31S-LC29 (BK/RD) 49-LG13 (BU/RD) 31-LG13 (BK) 14401 F03015 31-LG13 (BK) 49-LG13 (BU/RD) 31S-LC30 (BK/GN)	C323 14401 F05038 29-MB24 (OG/YE) K106 Anti-theft flasher relay 49-LG4 (BU/RD) 31S-MB22A (BK/RD) 29-MB24 (OG/YE) + 29-MB25 (OG)

Connector Views

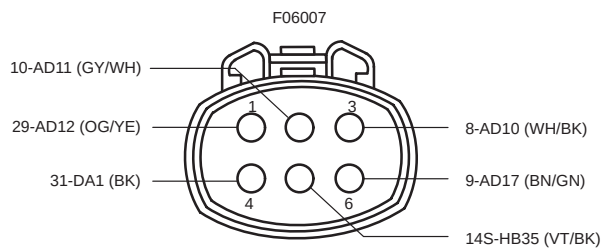
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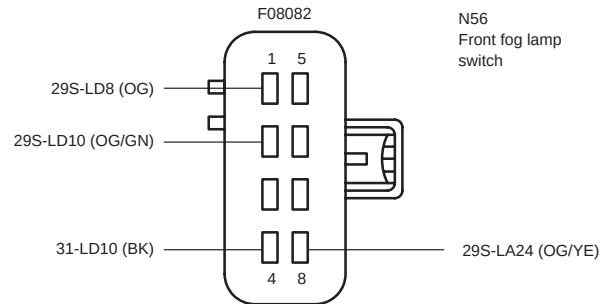
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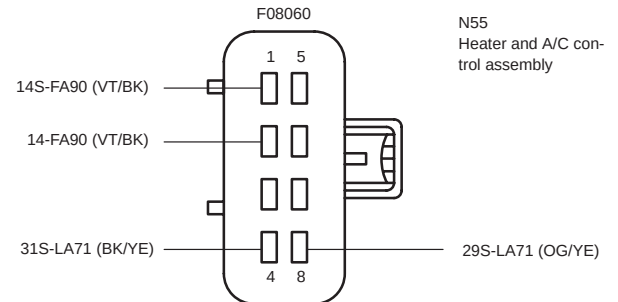
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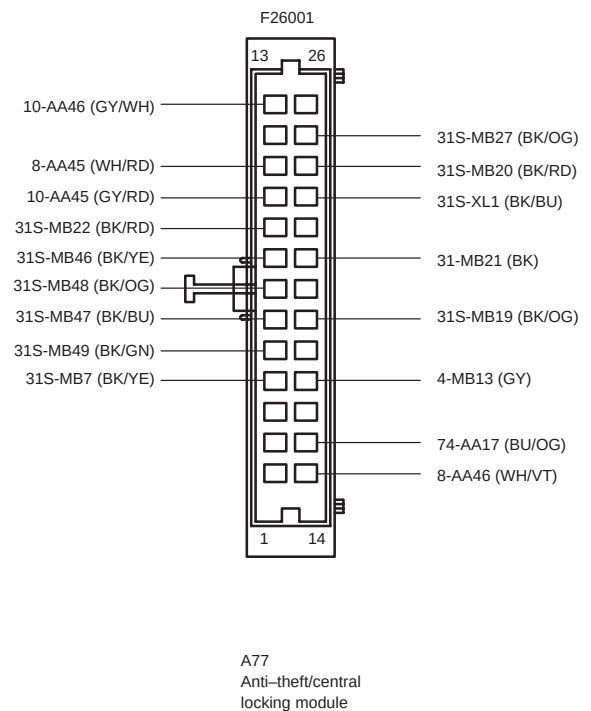
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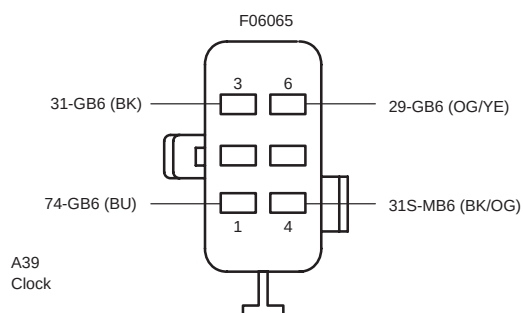
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14401



C330
14401



C327
14401

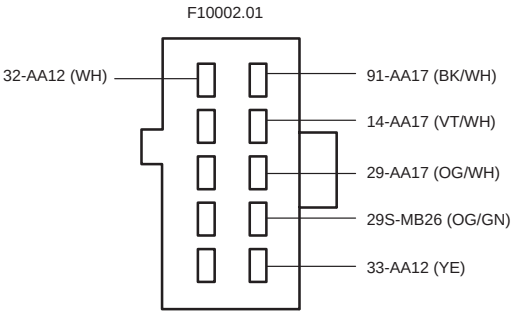


Connector Views

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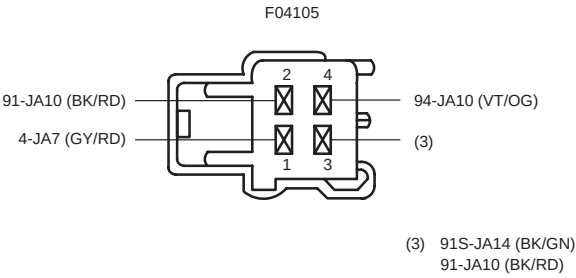
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C331
14401

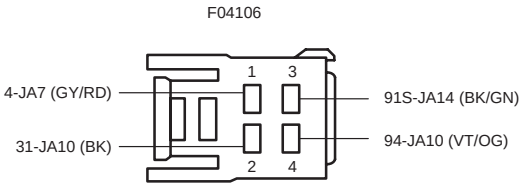


A77
Anti-theft/central
locking module

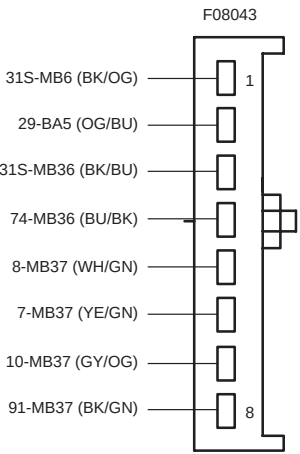
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14B095



14401

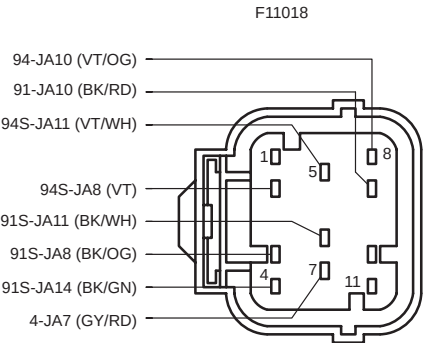


C332
14401



A103
Passive anti-theft
module

C334
14B095



A29
Air bag module

Connector Views

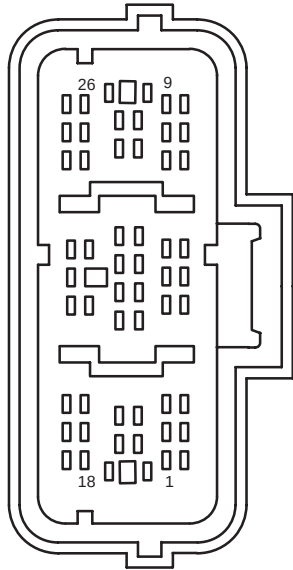
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C335

14B095

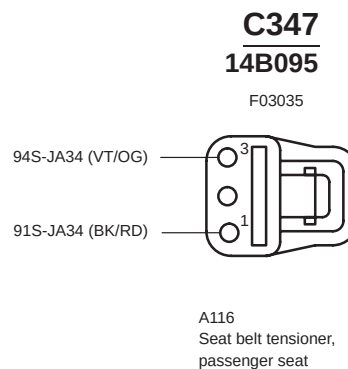
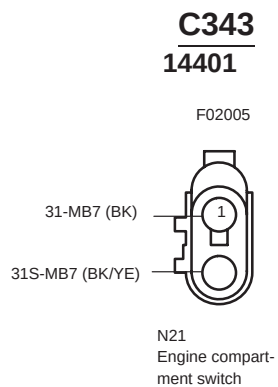
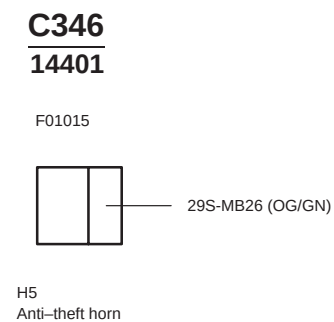
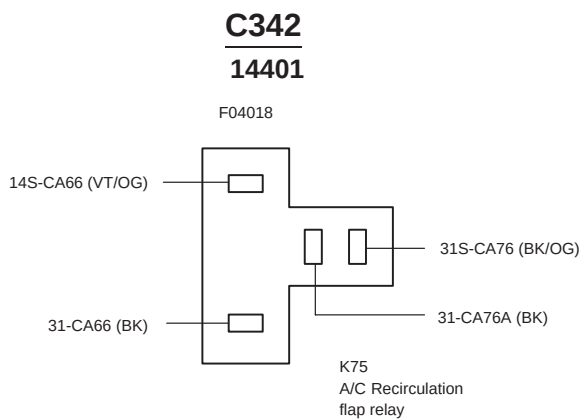
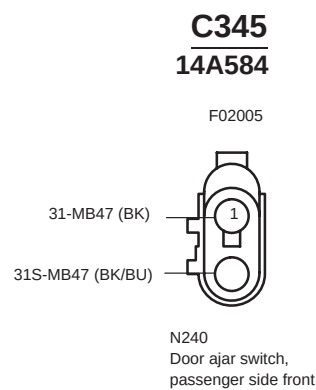
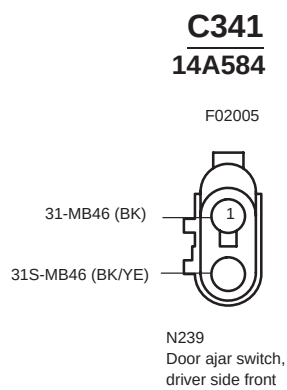
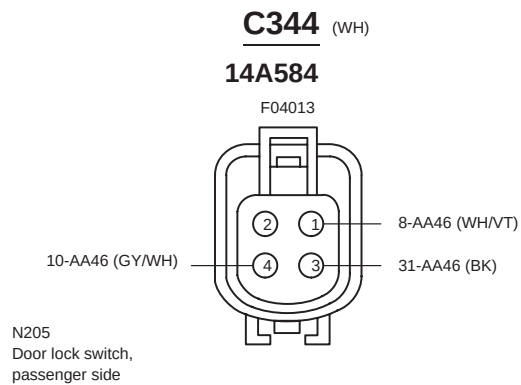
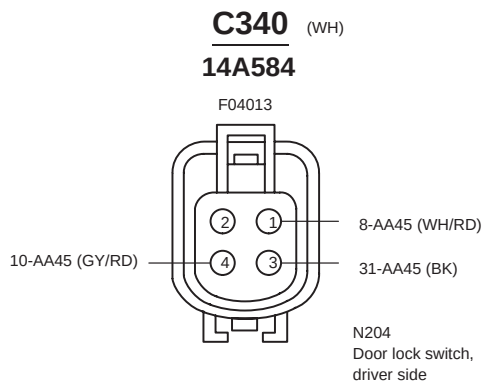
F26020



A29
Air bag module

- (10) 7-JA46 (YE/BU)
- (11) 94S-JA33 (VT/BU)
- (12) 91S-JA33 (BK/BU)

- (13) 7-JA46 (YE/BU)
- (20) 94S-JA34 (VT/OG)
- (21) 91S-JA34 (BK/RD)



Connector Views

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C348 14B095 F03035 94S-JA33 (VT/BU) 91S-JA33 (BK/BU) A117 Seat belt tensioner, driver seat	C352 14300 F02055 9-PC53 (BN/YE) 8-PC53 (WH/BK) B45 Knock sensor
C349 14B095 F03035 94S-JA8 (VT) 91S-JA8 (BK/OG) P13 Clock spring	C353 14401 F08060 14S-CA66 (VT/OG) 14-CA66 (VT/OG) + 14-FA90 (VT/BK) 31-LA72 (BK) N357 Recirculation switch 29S-LA71 (OG/YE) + 29S-LA72 (OG)
C350 14B095 F02024 94S-JA11 (VT/WH) 91S-JA11 (BK/WH) A43 Passenger air bag unit	C325 14A684 F08086 8-AD10 (WH/BK) 8-AD7 (WH/RD) 9-AD1 (BN/RD) 10-AD11 (GY/WH) 29-AD12 (OG/YE) 31-AD12 (BK) 10-AD8 (GY/VT)
C351 14401 F06101 29S-LF11B (OG/WH) 14S-LG41B (VT/BK) 49-LG19B (BU/RD) 31-DA11B (BK) 49-LG12B (BU)	C325 14A684 F08086 N193 Power mirror adjust switch

COMPONENT TESTING:

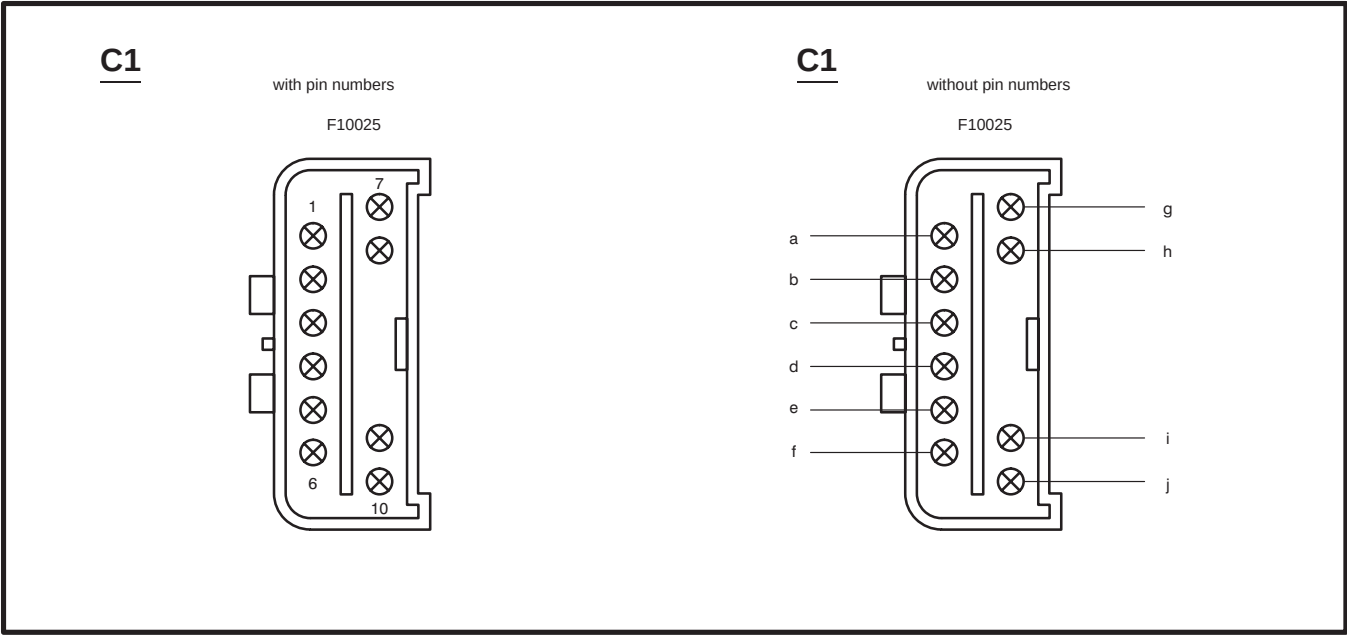
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Introduction

Component testing procedures are provided to determine whether a component is good or bad.

Testing information for each component includes a schematic, a view of the terminal locations and step-by-step test procedures. Terminal locations are identified by numbers or letters that may be on the component or next to it.

Terminal locations



The component connector MUST BE REMOVED before testing. To test a single circuit within the component, select that circuit under the column "To test". If you wish to test the complete component, perform all tests.

Connect the tester to the terminals shown in the second column and operate the component as shown in the third column.

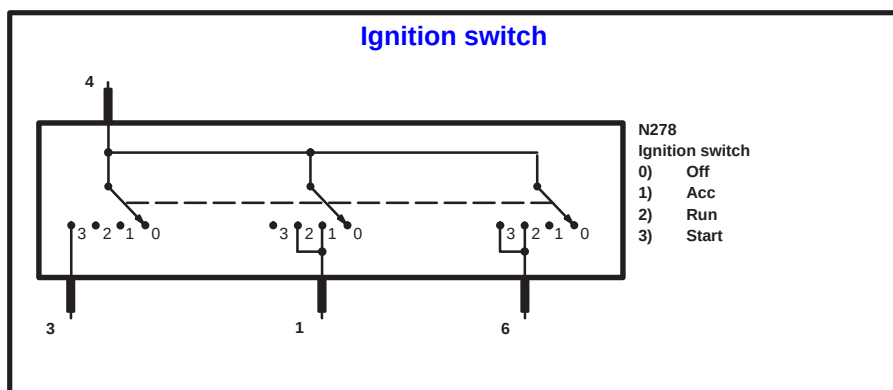
Component Testing

700-09-00

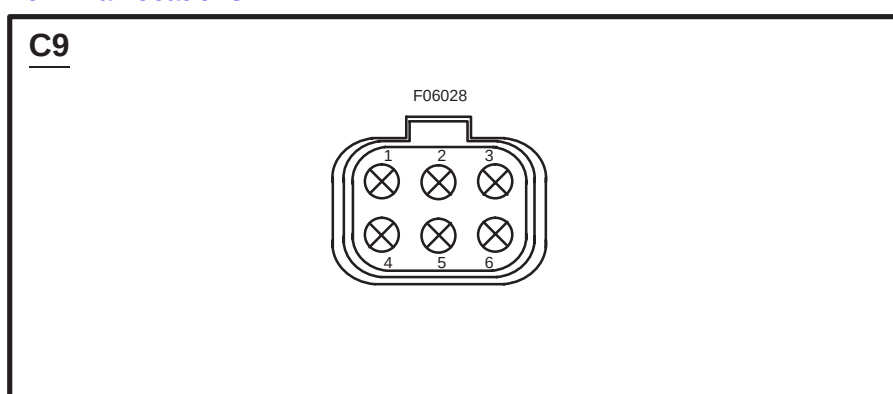
Ignition switch

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Schematic



Terminal locations



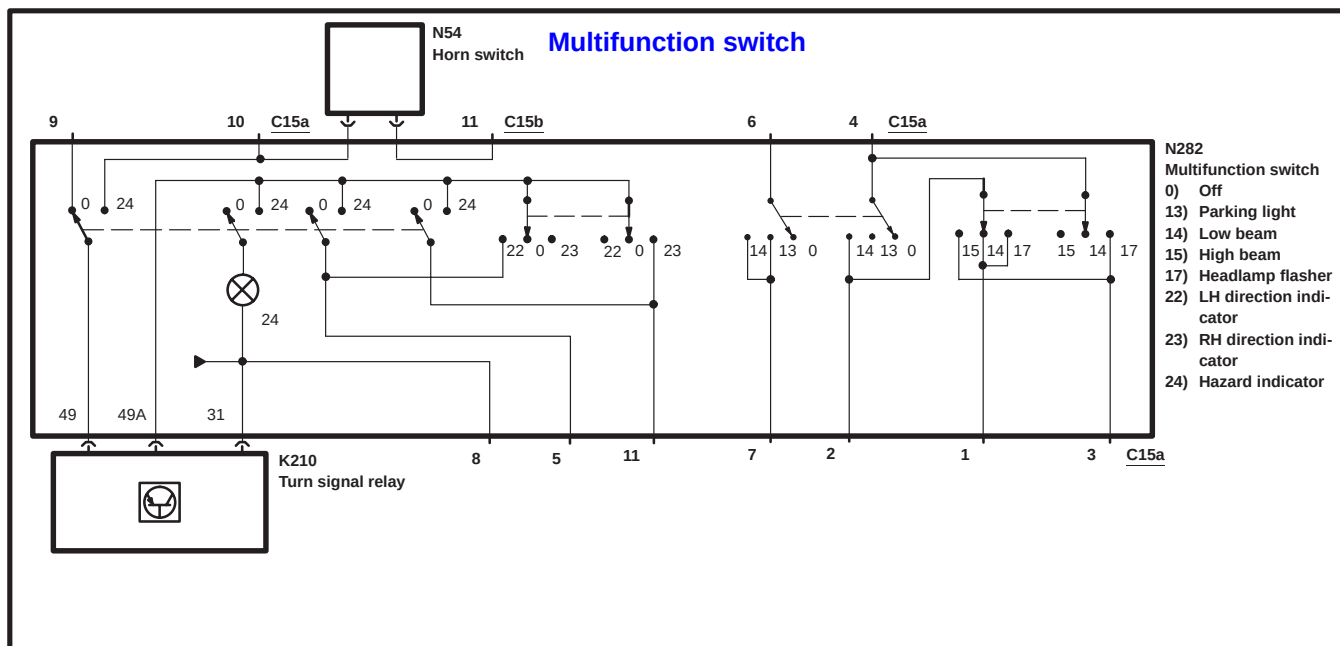
Component testing procedure

Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Start inhibit relay circuit	4 and 3	Off	Open circuit
		Acc	Open circuit
		Run	Open circuit
		Start	Closed circuit
Run power circuit	4 and 6	Off	Open circuit
		Acc	Open circuit
		Run	Closed circuit
		Start	Closed circuit
Acc power circuit	4 and 1	Off	Open circuit
		Acc	Closed circuit
		Run	Closed circuit
		Start	Open circuit

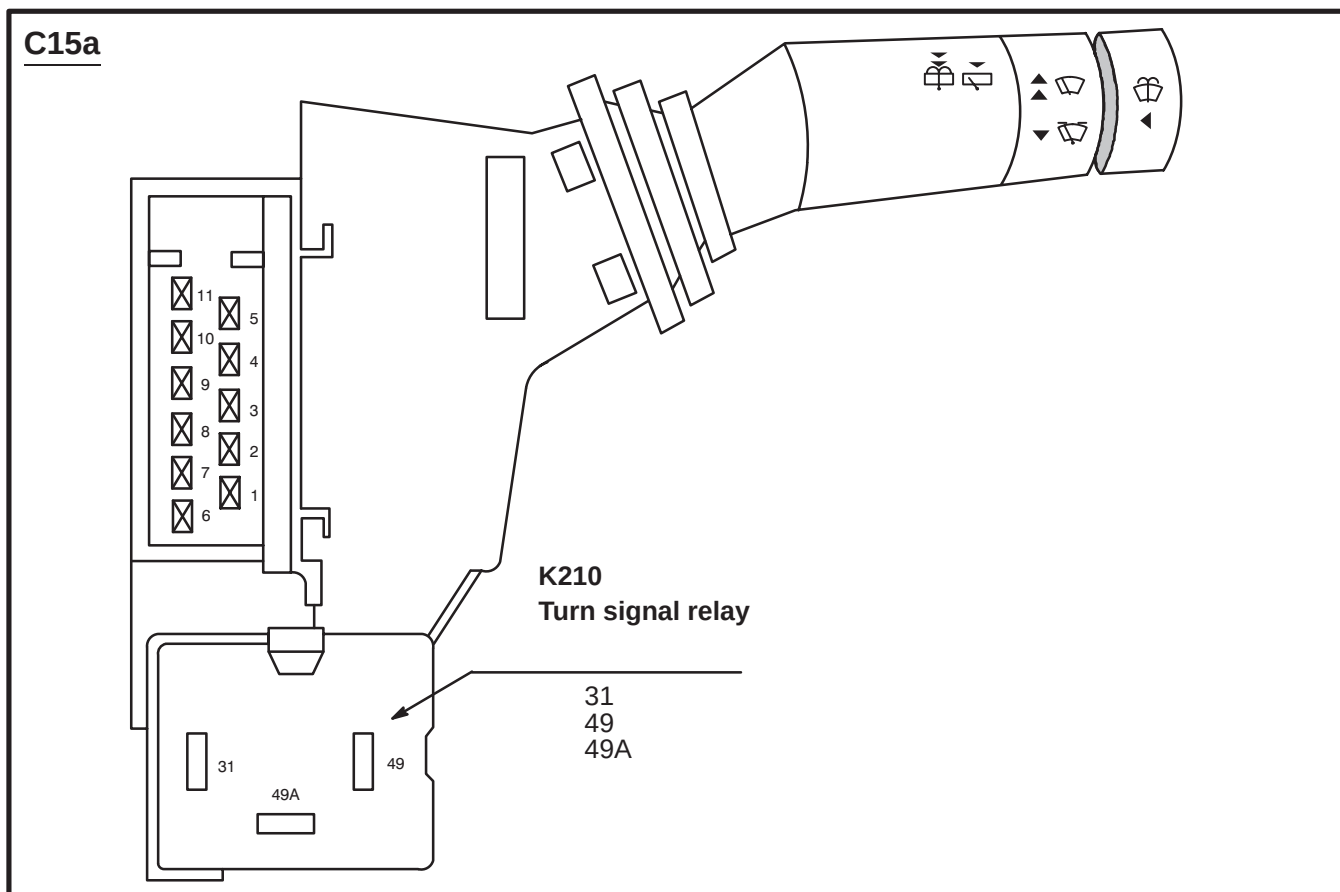
Multifunction switch

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Schematic



Terminal locations



Component Testing

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Multifunction switch

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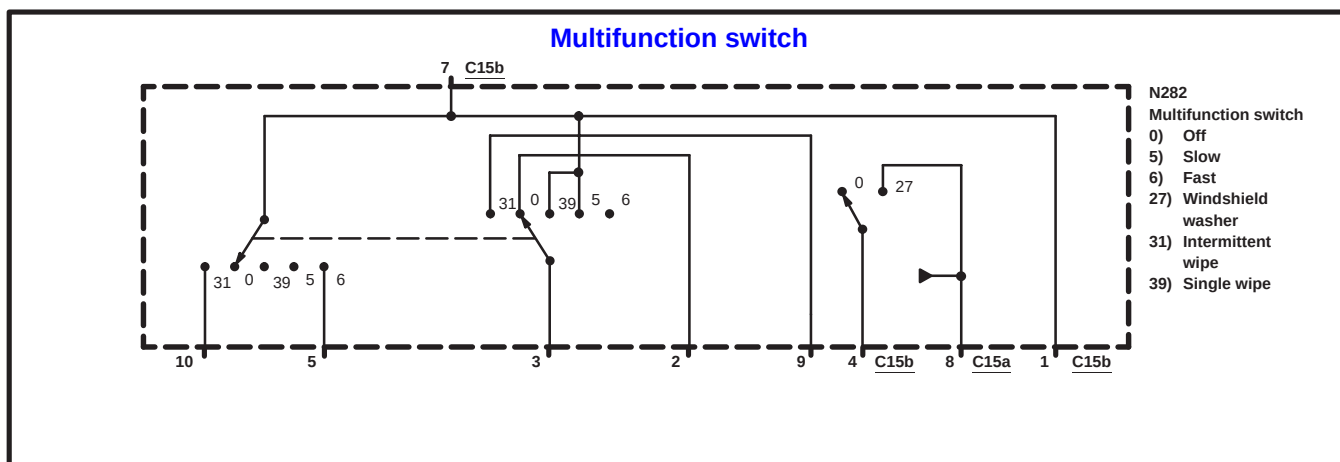
Component testing procedure

Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Parking light	6 and 7	Off	Open circuit
		Parking light	Closed circuit
		Low beam	Closed circuit
Low beam	4 and 1	Off	Open circuit
		Parking light	Open circuit
		Low beam	Closed circuit
High beam	4 and 3	Neutral	Open circuit
		High beam	Closed circuit
		Headlamp flasher	Closed circuit
Headlamp flasher	4 and 3	Neutral	Open circuit
		High beam	Open circuit
		Headlamp flasher	Closed circuit
LH direction indicator	49A and 5	Off	Open circuit
		LH direction indicator	Closed circuit
RH direction indicator	49A and 11	Off	Open circuit
		RH direction indicator	Closed circuit
Hazard indicator	49 and 9	Off	Closed circuit
		Hazard indicator	Open circuit
	49 and 10	Off	Open circuit
		Hazard indicator	Closed circuit
	49A and 5	Off	Open circuit
		Hazard indicator	Closed circuit
	49A and 11	Off	Open circuit
		Hazard indicator	Closed circuit
Ground	31 and 8		Closed circuit
Hazard indicator lamp	49A and 8	Off	Open circuit
		Hazard indicator	Closed circuit

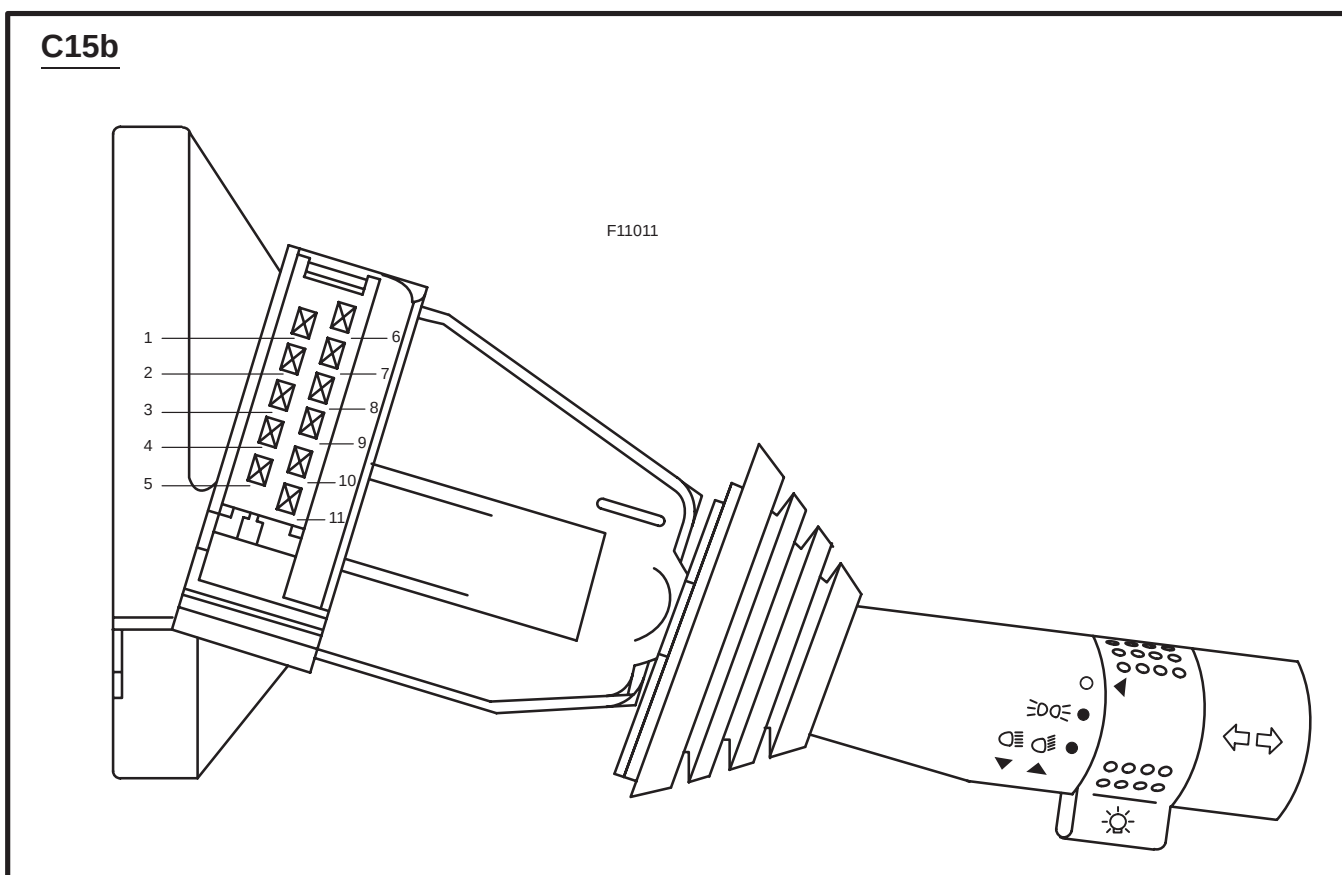
Multifunction switch

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Schematic



Terminal locations



Component Testing

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Multifunction switch

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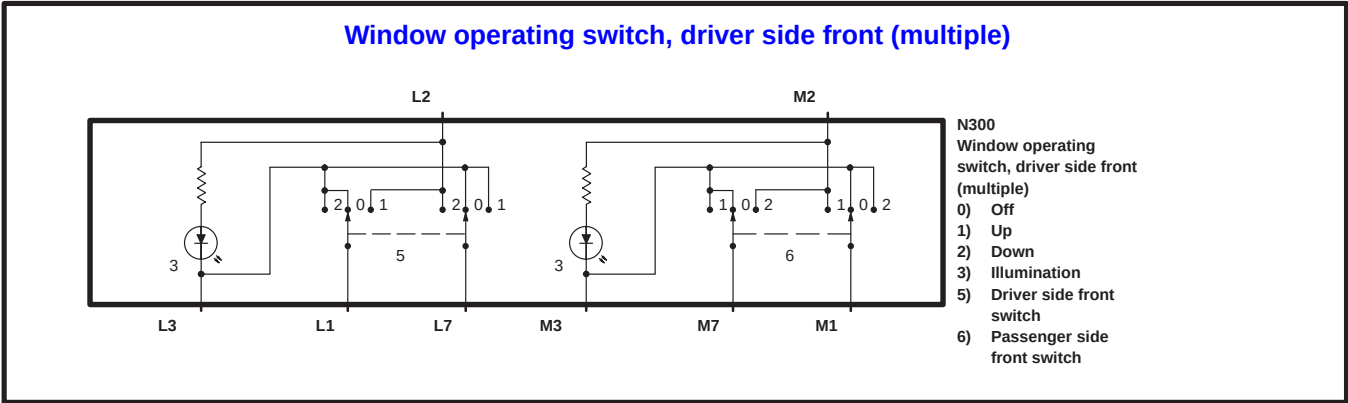
Component testing procedure

Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Single wipe Front wiper	7 and 3	Single wipe	Closed circuit
		Off	Open circuit
		Intermittent wipe	Open circuit
		Slow	Closed circuit
		Fast	Open circuit
Intermittent wipe Front wiper	7 and 10	Single wipe	Open circuit
		Off	Open circuit
		Intermittent wipe	Closed circuit
		Slow	Open circuit
		Fast	Open circuit
	9 and 3	Single wipe	Open circuit
		Off	Open circuit
		Intermittent wipe	Closed circuit
		Slow	Open circuit
		Fast	Open circuit
Slow Front wiper	7 and 3	Single wipe	Closed circuit
		Off	Open circuit
		Intermittent wipe	Open circuit
		Slow	Closed circuit
		Fast	Open circuit
Fast Front wiper	7 and 5	Single wipe	Open circuit
		Off	Open circuit
		Intermittent wipe	Open circuit
		Slow	Open circuit
		Fast	Closed circuit
Windshield washer	4 (C15b) and 8 (C15a)	Off	Open circuit
		Windshield washer	Closed circuit

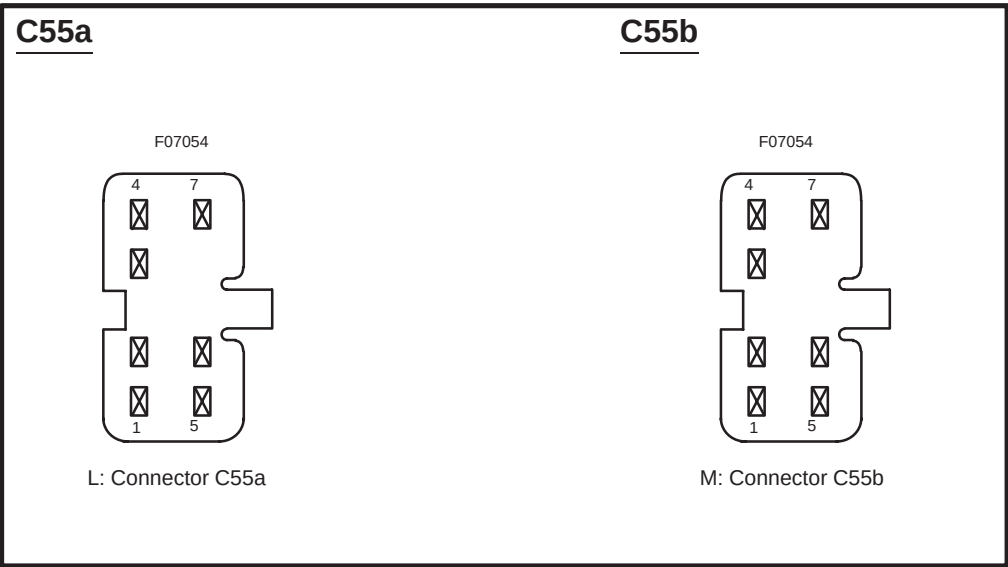
Window operating switch, driver side front (multiple)

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Schematic



Terminal locations



Window operating switch, driver side front (multiple)

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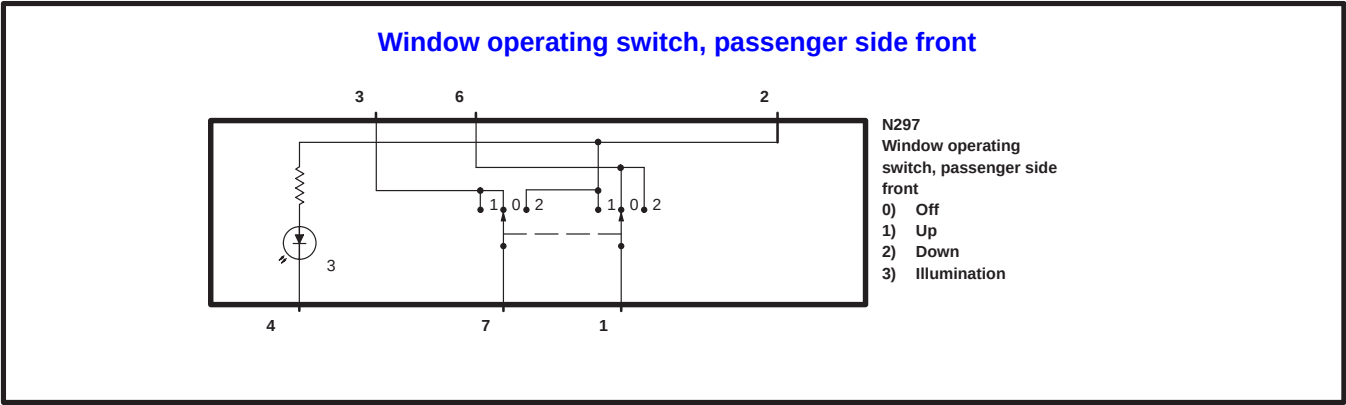
Component testing procedure

Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Window regulator circuit, Driver side	L2 and L1	Off	Open circuit
		Up	Closed circuit
		Down	Open circuit
	L2 and L7	Off	Open circuit
		Up	Open circuit
		Down	Closed circuit
	L3 and L1	Off	Closed circuit
		Up	Open circuit
		Down	Closed circuit
	L3 and L7	Off	Closed circuit
		Up	Closed circuit
		Down	Open circuit
Window regulator circuit, Passenger side	M2 and M1	Off	Open circuit
		Up	Closed circuit
		Down	Open circuit
	M2 and M7	Off	Open circuit
		Up	Open circuit
		Down	Closed circuit
	M3 and M1	Off	Closed circuit
		Up	Open circuit
		Down	Closed circuit
	M3 and M7	Off	Closed circuit
		Up	Closed circuit
		Down	Open circuit

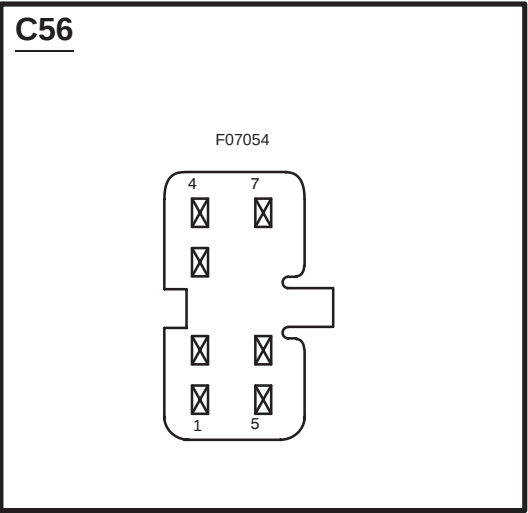
Window operating switch, passenger side front

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Schematic



Terminal locations



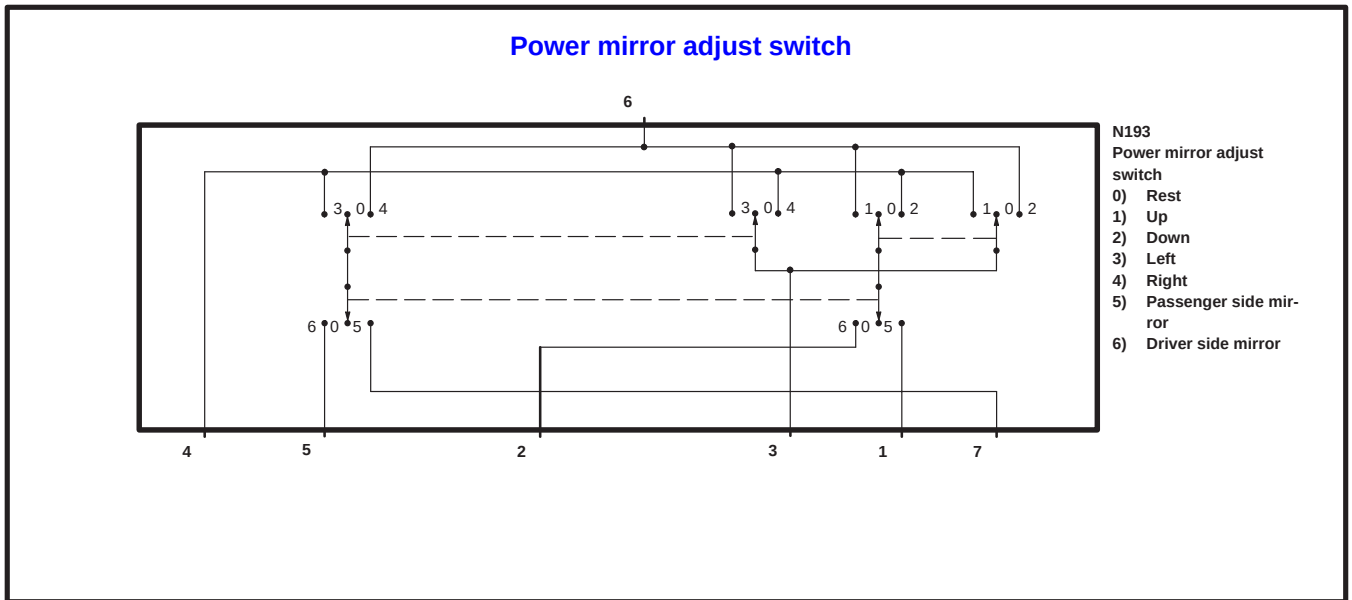
Component testing procedure

Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Window regulator circuit	3 and 7	Off	Closed circuit
		Up	Closed circuit
		Down	Open circuit
	6 and 1	Off	Closed circuit
		Up	Open circuit
		Down	Closed circuit
	2 and 7	Off	Open circuit
		Up	Open circuit
		Down	Closed circuit
	2 and 1	Off	Open circuit
		Up	Closed circuit
		Down	Open circuit

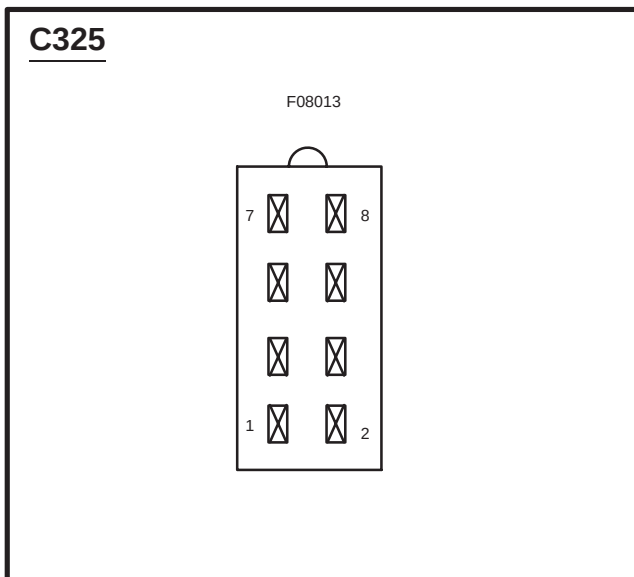
Power mirror adjust switch

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Schematic



Terminal locations



Component Testing

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Power mirror adjust switch

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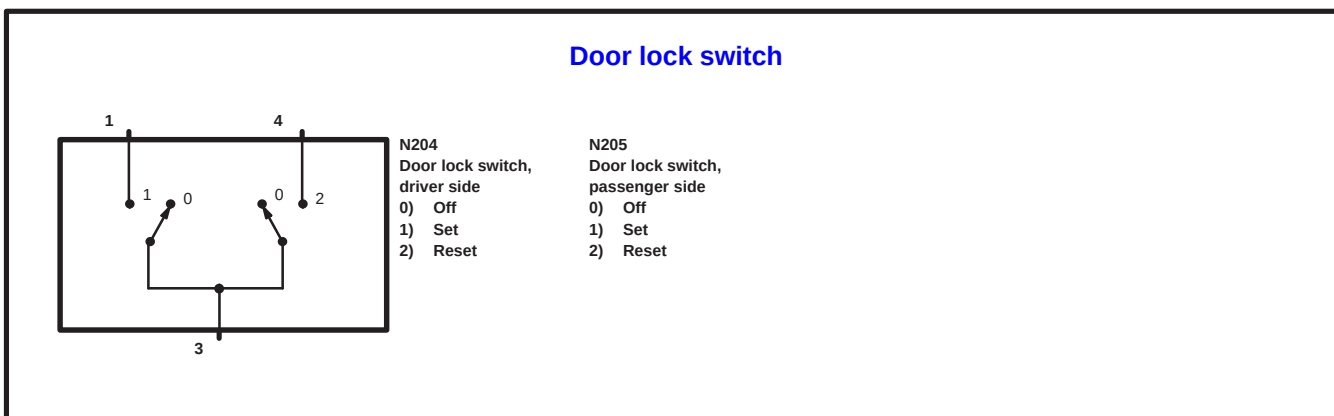
Component testing procedure

Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Power mirror, driver's Up/down	6 and 2	Rest	Open circuit
		Up	Closed circuit
		Down	Open circuit
	2 and 4	Rest	Open circuit
		Up	Open circuit
		Down	Closed circuit
Power mirror, passenger's Up/down	1 and 6	Rest	Open circuit
		Up	Closed circuit
		Down	Open circuit
	1 and 4	Rest	Open circuit
		Up	Open circuit
		Down	Closed circuit
Power mirror, driver's Left/right	6 and 5	Rest	Open circuit
		Left	Open circuit
		Right	Closed circuit
	4 and 5	Rest	Open circuit
		Left	Closed circuit
		Right	Open circuit
Power mirror, passenger's Left/right	7 and 6	Rest	Open circuit
		Left	Open circuit
		Right	Closed circuit
	7 and 4	Rest	Open circuit
		Left	Closed circuit
		Right	Open circuit
Up/down	6 and 3	Rest	Open circuit
		Up	Open circuit
		Down	Closed circuit
	3 and 4	Rest	Open circuit
		Up	Closed circuit
		Down	Open circuit
Left/right	6 and 3	Rest	Open circuit
		Left	Closed circuit
		Right	Open circuit
	3 and 4	Rest	Open circuit
		Left	Open circuit
		Right	Closed circuit

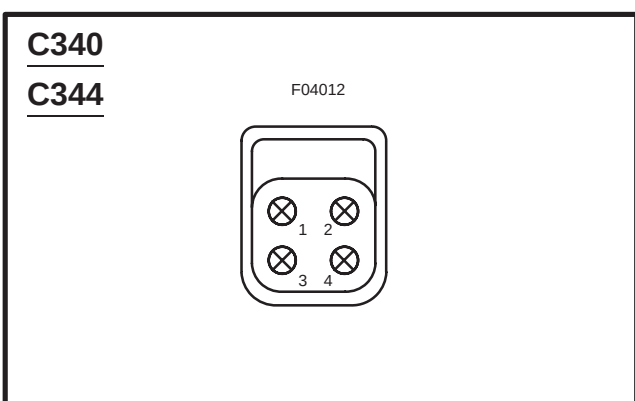
Door lock switch

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Schematic



Terminal locations

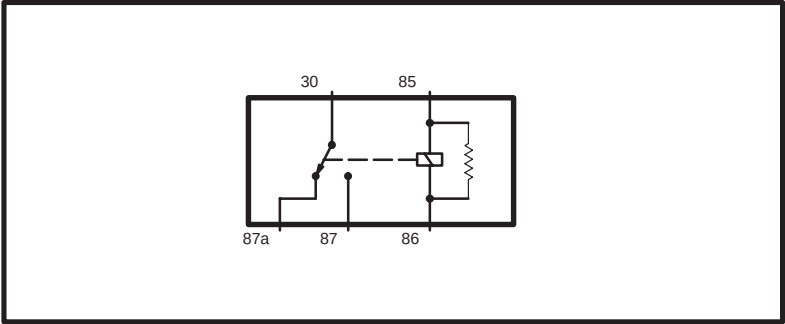


Component testing procedure

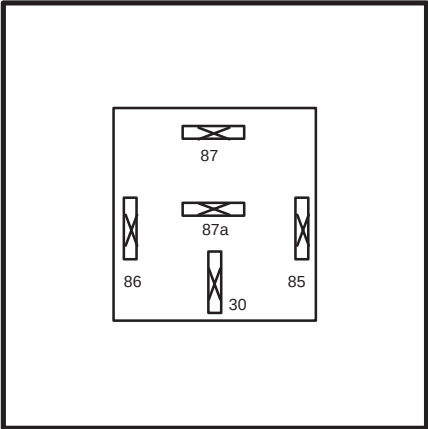
Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Set/reset circuit	1 and 3	Off	Open circuit
		Set	Closed circuit
		Reset	Open circuit
	4 and 3	Off	Open circuit
		Set	Open circuit
		Reset	Closed circuit

Mini ISO

Schematic



Terminal locations

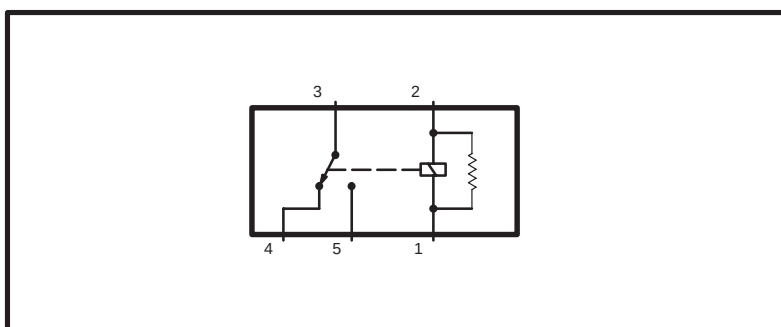
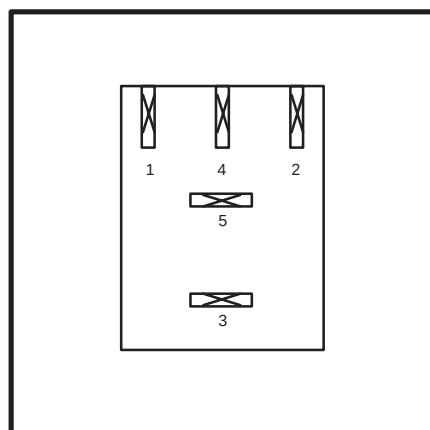


Component testing procedure (no voltage applied)

Circuit to test	Connect ohmmeter to terminals	A good relay will indicate
Coil	85 and 86	50–100 Ω
Contact	30 and 87a	Closed circuit
	30 and 87	Open circuit
Coil – Contact	86 and 30	Open circuit
	86 and 87a	Open circuit
	86 and 87	Open circuit

Component testing procedure (voltage applied)

Disconnect the ohmmeter; connect pins 30 and 85 to 12 V DC power and pin 86 to ground. Measure voltage between pin 87 and pin 86. If the voltage is 12 V, continue with the test. If not, replace the relay. Disconnect power from pin 85 and measure voltage between pin 87a and pin 86. If the voltage is 12 V, the relay is okay. If not, replace the relay.

Micro ISO**-14****Schematic****Terminal locations****Component testing procedure (no voltage applied)**

Circuit to test	Connect ohmmeter to terminals	A good relay will indicate
Coil	1 and 2	100–150 Ω
Contact	3 and 4	Closed circuit
	3 and 5	Open circuit
Coil – Contact	1 and 3	Open circuit
	1 and 4	Open circuit
	1 and 5	Open circuit

Component testing procedure (voltage applied)

Disconnect the ohmmeter; connect pins 2 and 3 to 12 V DC power and pin 1 to ground. Measure voltage between pin 5 and pin 1. If the voltage is 12 V, continue with the test. If not, replace the relay. Disconnect power from pin 2 and measure voltage between pin 4 and pin 1. If the voltage is 12 V, the relay is okay. If not, replace the relay.

2002 Bantam Wiring Diagrams Diesel Engine

FOREWORD

The illustrations, technical information, data and descriptive text in this issue, to the best of our knowledge, were correct at the time of going to print. The right to make changes at any time, without notice, is reserved as part of Ford's policy of continuous development and improvement.

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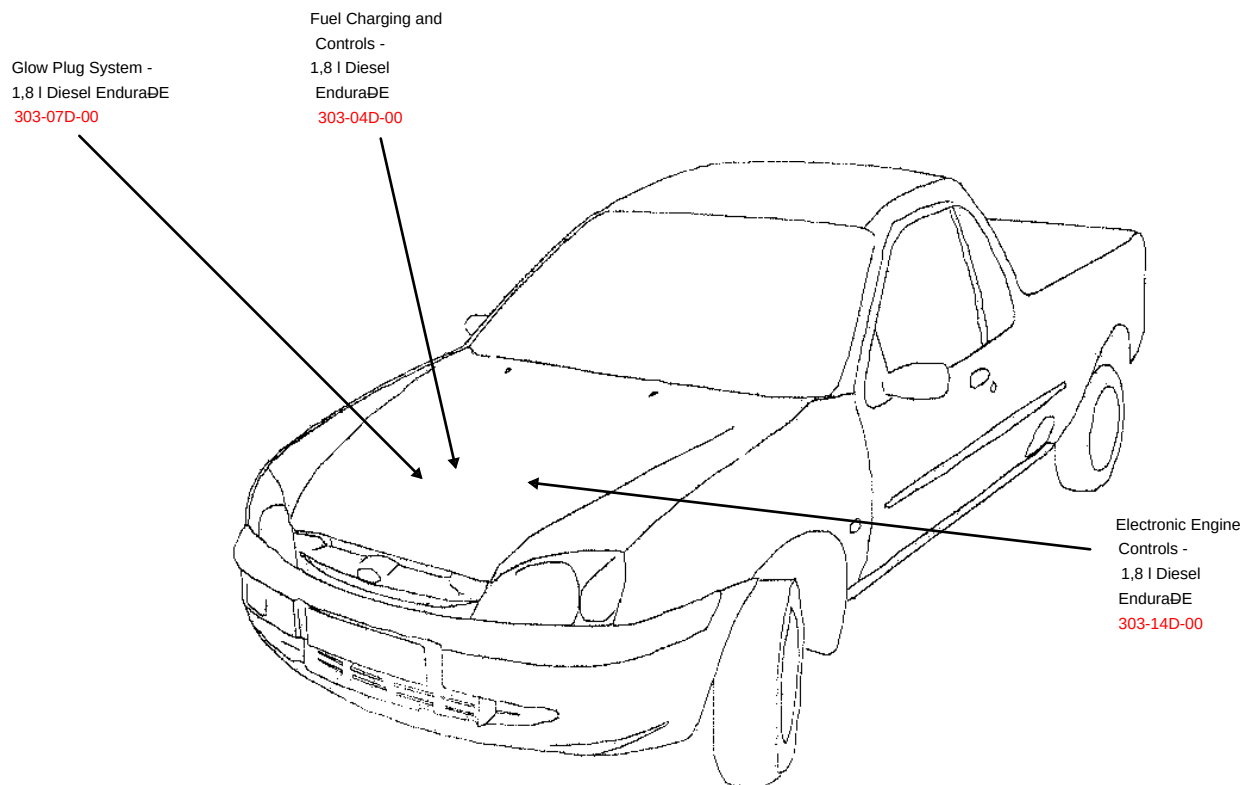
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Systems Overview

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F2	700-02-00-2	
F2	700-03-00-1	
F2	700-03-00-2	
F3	700-02-00-1	
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F11.	700-02-00-1
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F12.	700-02-00-3
F12.	700-03-00-6
F13.	700-02-00-3
F13.	700-03-00-7
F13.	700-03-00-8
F14.	700-02-00-3
F14.	700-03-00-7
F14.	700-03-00-8
F15.	700-02-00-3
F15.	700-03-00-9
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F16.	700-03-00-9
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F19.	700-03-00-11
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S32.....	414-02-00-3
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S34.....	412-03A-00-3

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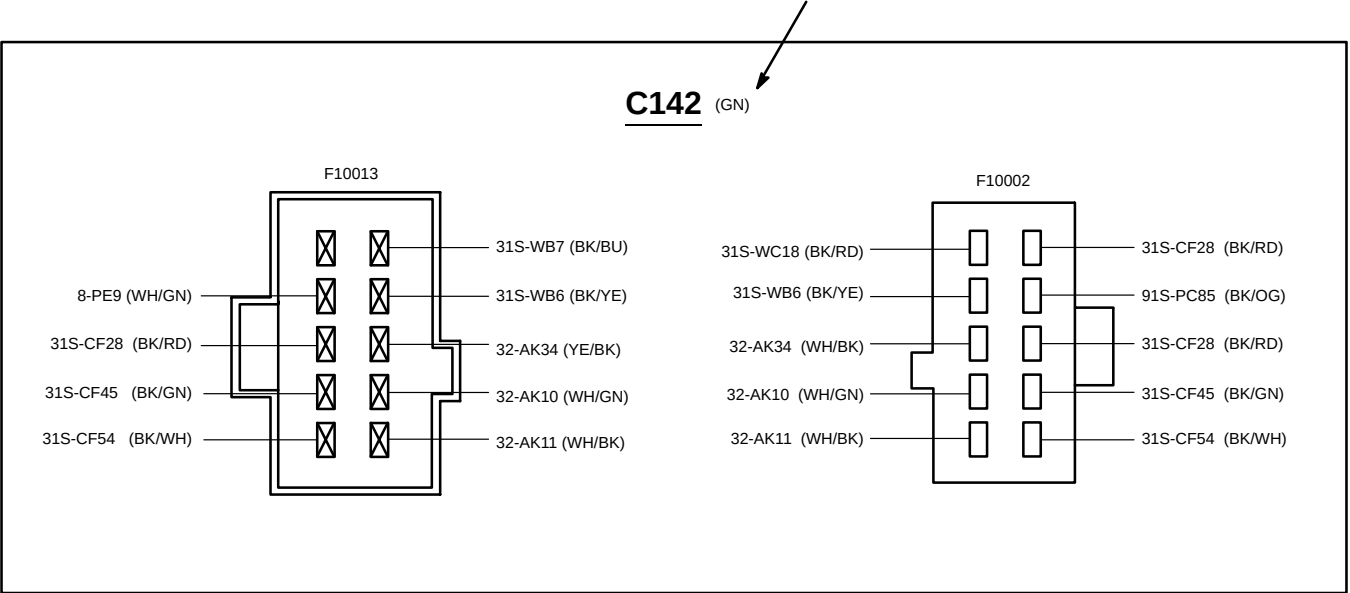
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S34.	412-03A-00-4
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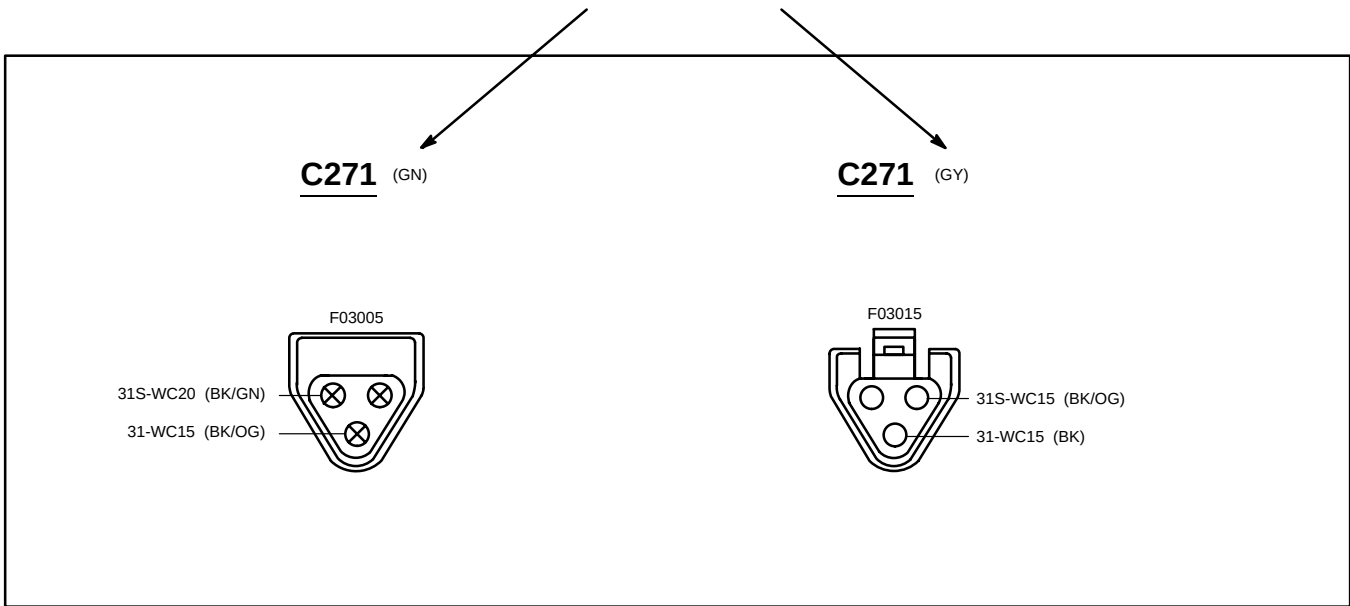
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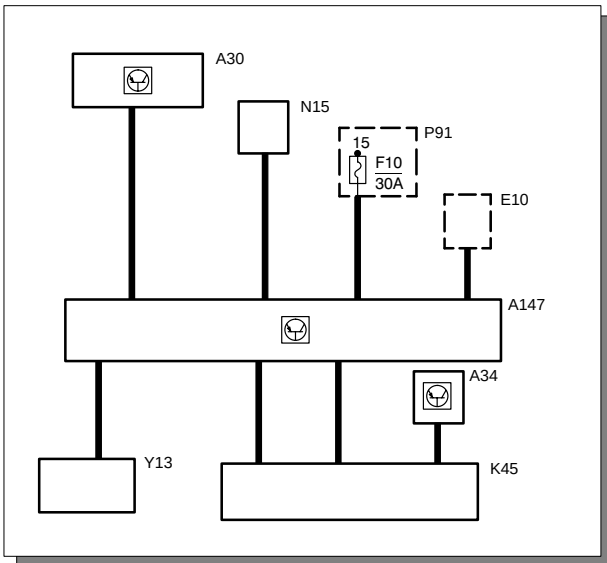
Connector colours are portrayed in the following manner:

when both sides of the connector have the same colour



when the male and female sides of the connector have different colours





Block Diagrams

-5

Block diagrams can be found at the beginning of some cells. These diagrams provide an overview of the systems detailed on the pages that follow them. All components connected to the control module are shown in order to provide easy understanding of the system component interactions.

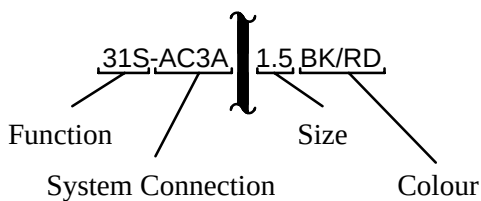
Circuit Numbering and Wire Identification

Circuit Numbering:

Ford has introduced a world-wide uniform system for circuit numbering and wire identification. The system is called Function - System Connection, or FSC for short.

FSC was developed mainly to assist in vehicle development and production processes, but is also helpful in helping the technician troubleshoot electrical circuits.

Example:



Function:

The first two digits identify the function of the wire. In this case, the function code includes the letter 'S' to indicate it is an additionally switched function. The function part of the circuit number is the most helpful to the technician in troubleshooting a circuit. The function codes are based on some DIN designations used previously, with new numbers added for overload-protected functions, sensor functions, data links and special electronic module functions. A complete list of function codes and their descriptions is included in cell 100-00-04 Symbols."

System Connection (including branch):

Systems are related to subsets of the vehicle circuitry. A complete list of the system codes can be found in cell 100-00-04 Symbols."

Immediately following the system letter code is the connection number specific to that system. A branch identification is used to differentiate wires in one connection with the same function.

Wire Identification (wire colours):

The wire identification consists of a basic colour and an identification colour, and is determined directly from the wire's circuit number. In the wiring diagrams the wire colours will be located separately next to the wires as before.

The basic and identification colours are abbreviated using the international norm IEC 757. The abbreviations are listed in cell 100-00-04 Symbols."

Each function code has a specific basic colour associated with it which can also be seen in the chart of function codes in cell 100-00-04 Symbols."The identification colour is a coloured stripe used to differentiate several wires with the same function within one component connector.

One essential difference from the previous wire colouring system is the change of some of the basic wire colours. Ground circuits, previously assigned the basic colour brown (BN) are now black (BK).

Using the circuit number and wire identification used in the above example we know the following information about the wire.

31S-AC3A  1.5 BK/RD

Function: 31 = Ground
S = Additionally switched circuit

System: AC = Headlamp levelling

Connection: 3 = Switch connection
A = Branch

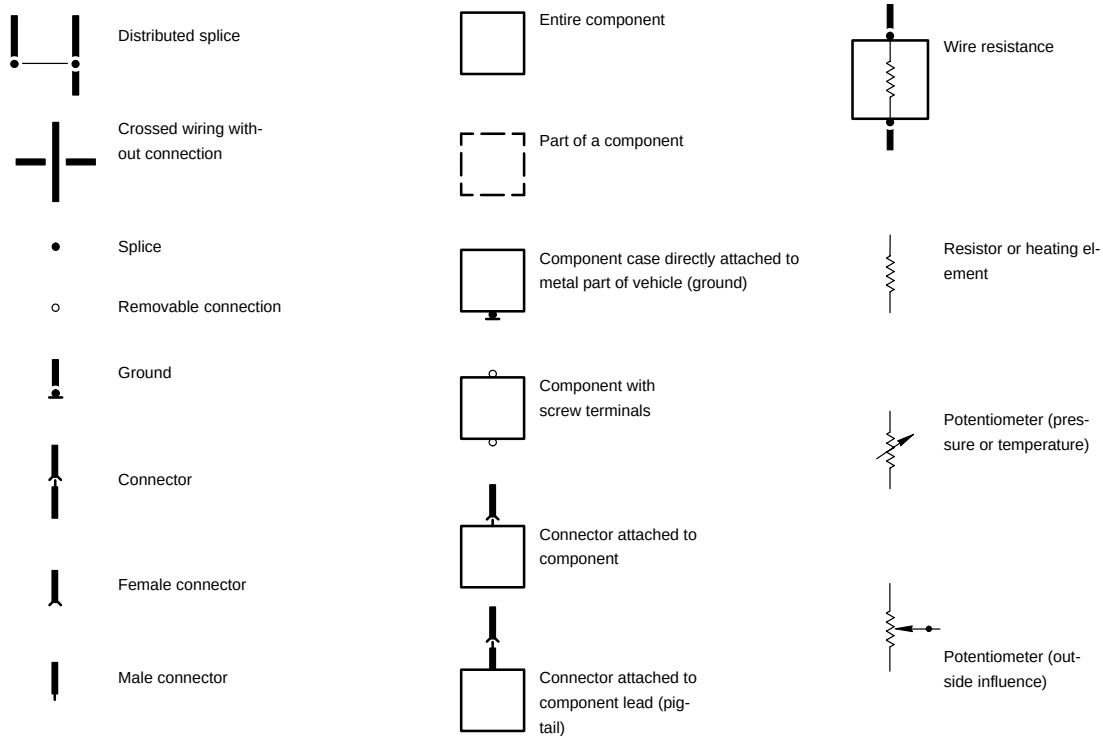
Size: 1.5 = 1.5 mm²

Colour: BK = Basic colour black
(determined by function 31)
RD = Identification colour red
(red stripe)

Symbols

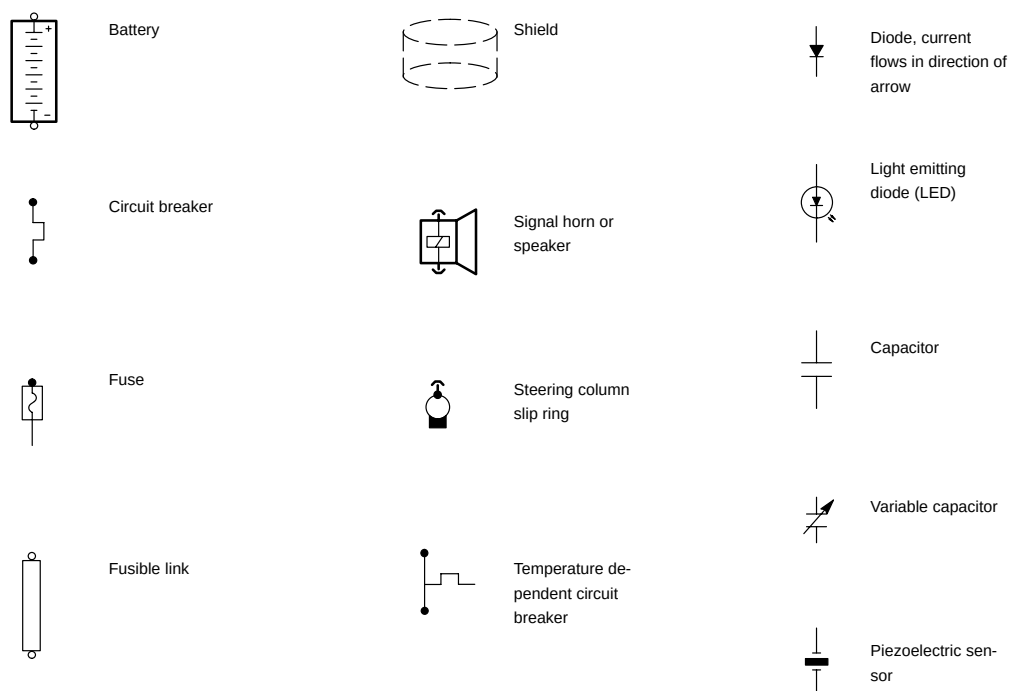
100-00-04

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'02 BANTAM E.W.D DIESEL

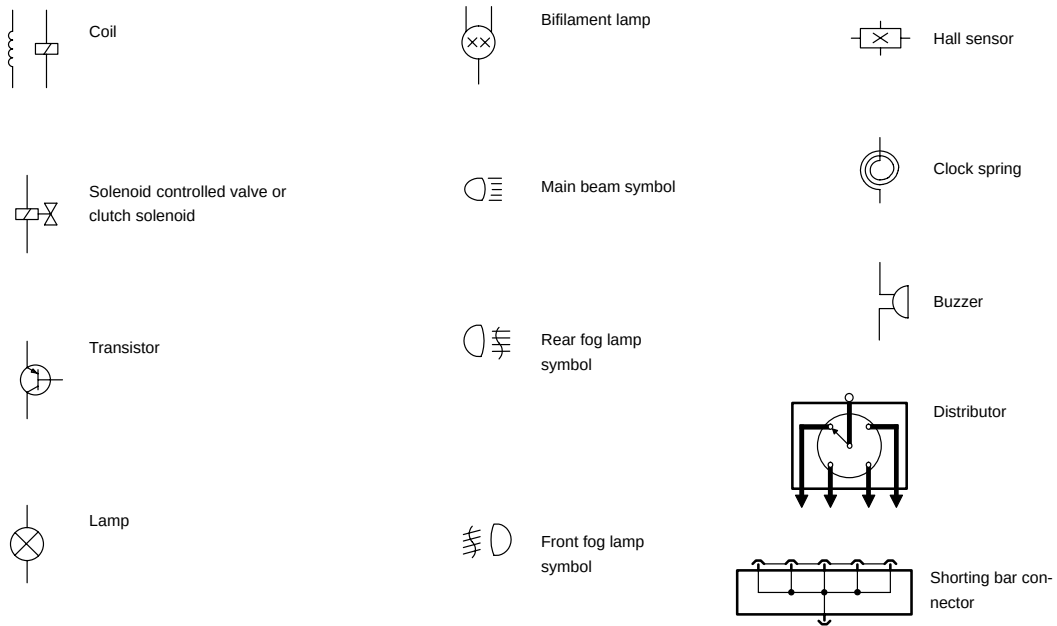
-2



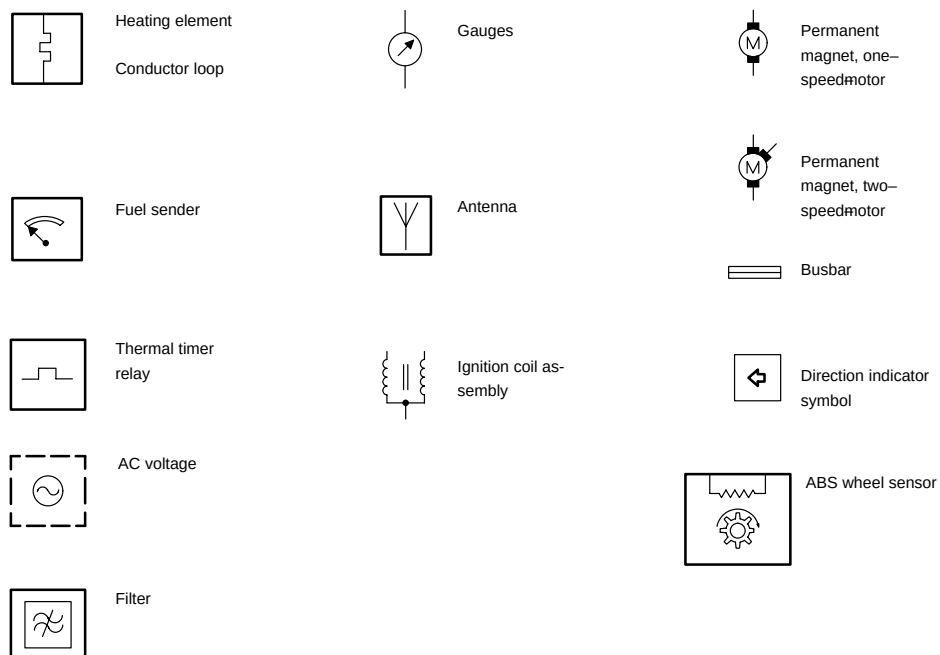
Symbols

100-00-04

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'02 BANTAM E.W.D DIESEL

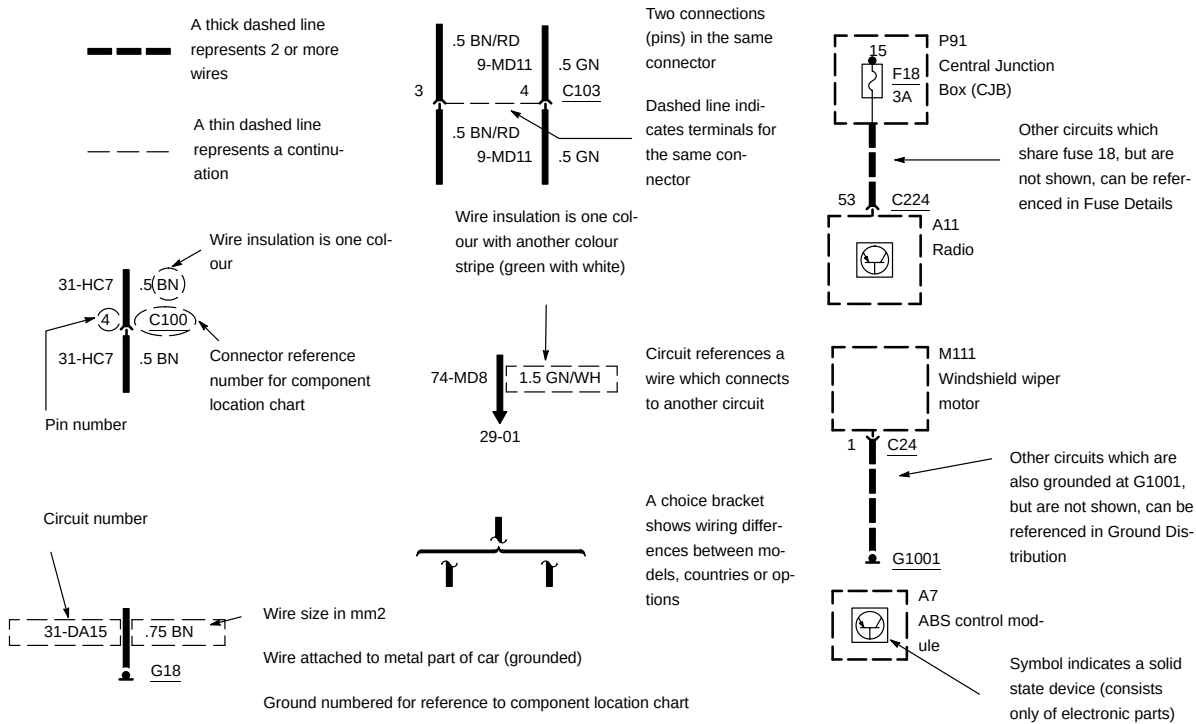


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Symbols

100-00-04

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'02 BANTAM E.W.D DIESEL

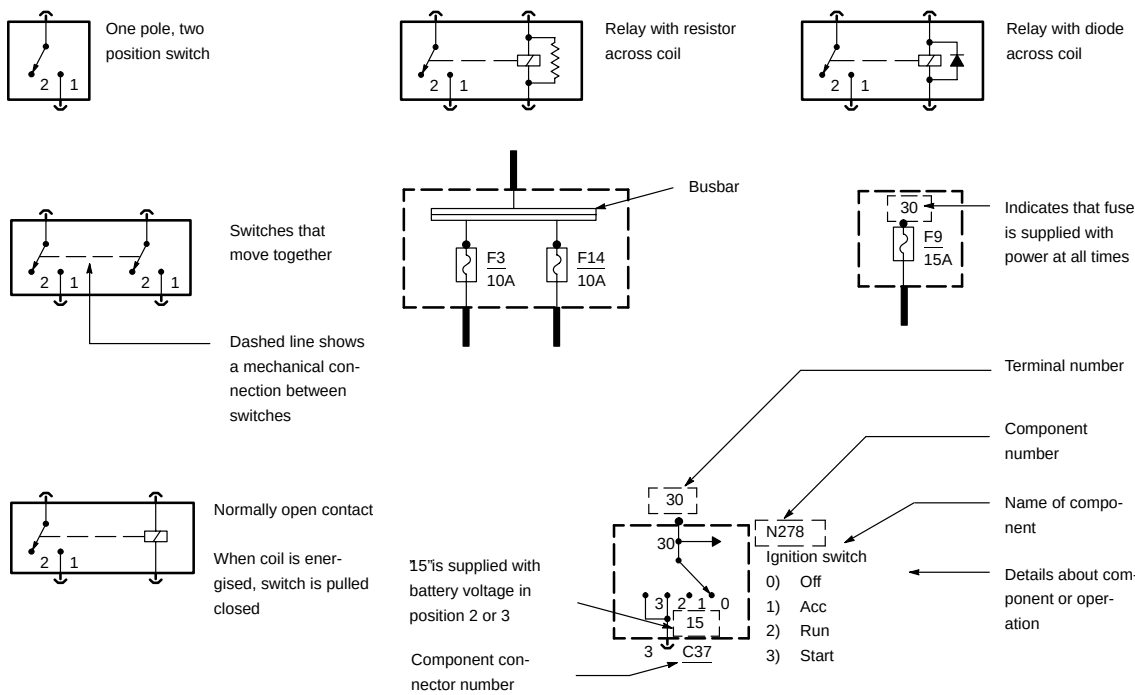
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LHD	Left hand drive vehicles	I	Italy
RHD	Right hand drive vehicles	IS	Iceland
Country codes			
A	Austria	N	Norway
B	Belgium	NL	Netherlands
CH	Switzerland	P	Portugal
CZ	Czech Republic	PL	Poland
D	Germany	S	Sweden
DK	Denmark		
E	Spain		
F	France		
FIN	Finland		
GR	Greece		
H	Hungary		

Wire colours	
BK	Black
BN	Brown
BU	Blue
DG	Dark green
GN	Green
GY	Grey
LG	Light green
NA	Natural
OG	Orange
RD	Red
SR	Silver
VT	Violet
WH	White
YE	Yellow

Symbols

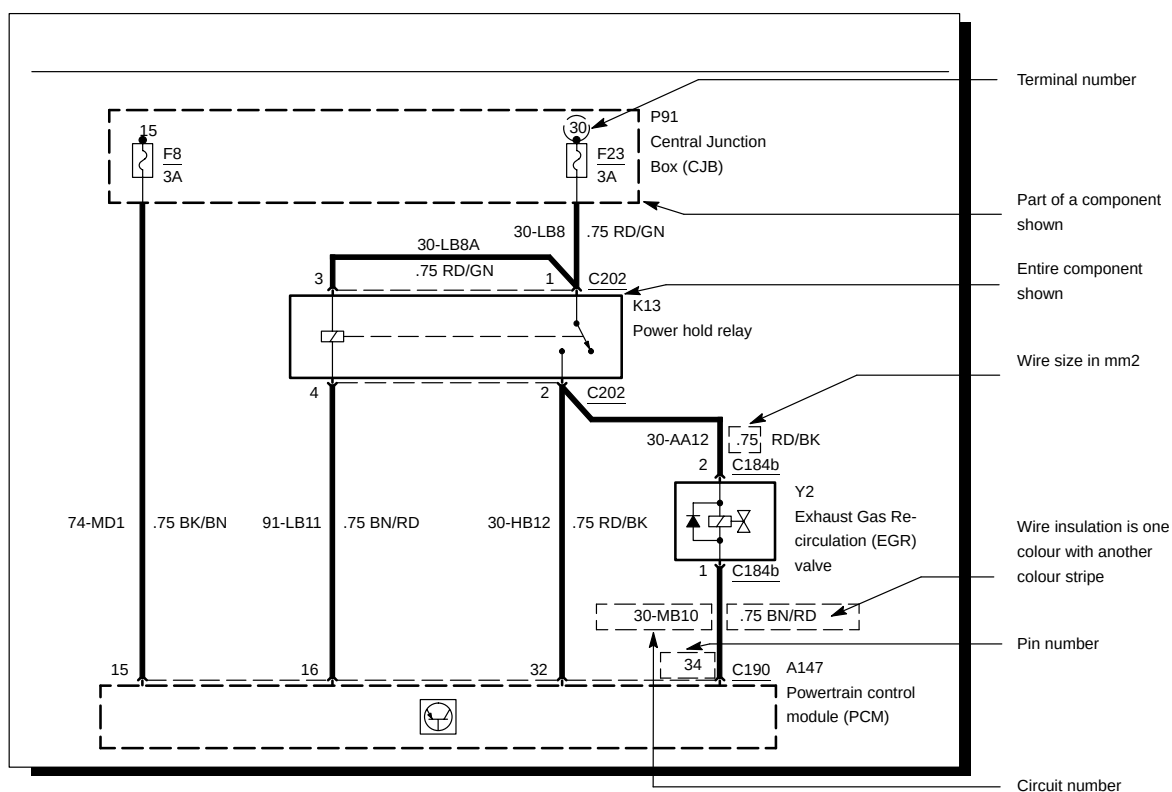
100-00-04



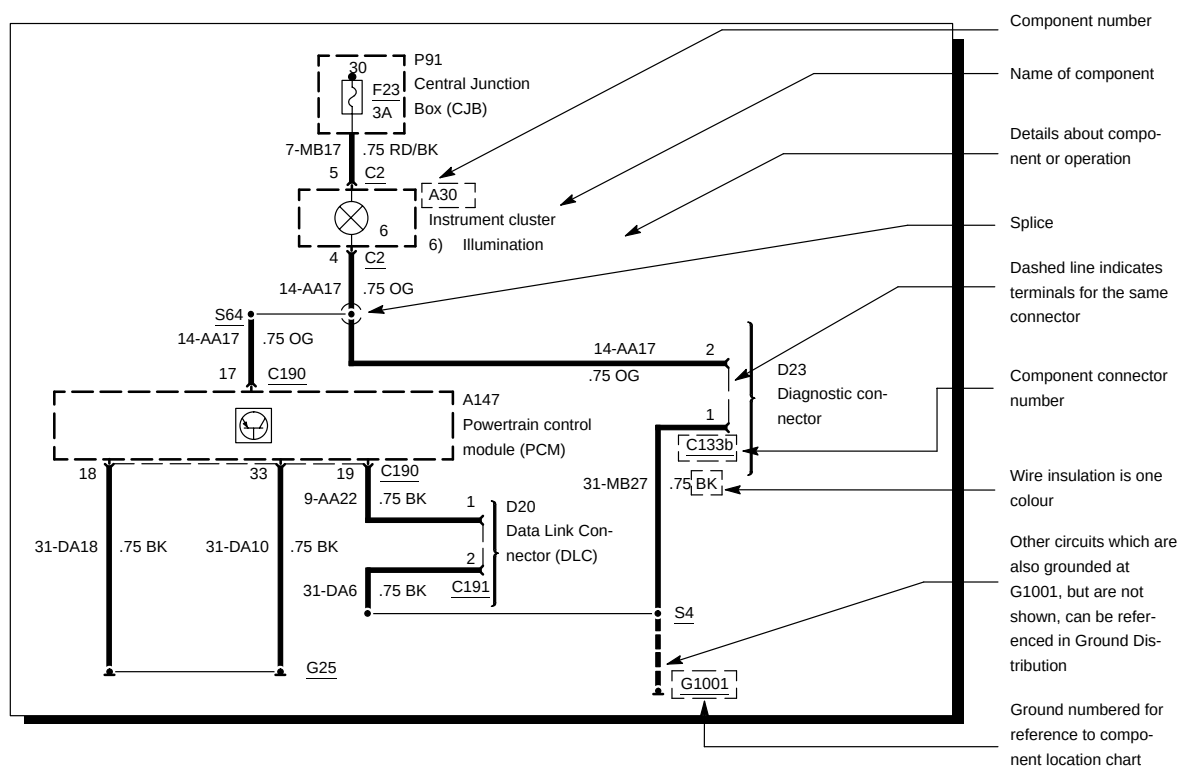
'02 BANTAM E.W.D DIESEL

Number	Description	Basic colour
1	Audio signal positive	WH
2	Audio signal negative	GY
3	Audio signal reference (return/shield)	BN
4	Data link, bus positive	GY
5	Datalink, bus negative	BU
6	Data link, bus shield	NO
7	Constant DC voltage, other than battery	YE
8	Sensor signal (Xdirection, forward, upward)	WH
9	Sensor signal return (reference/ground)	BN
10	Sensor signal (Ydirection, reverse, downward)	GY
15	Battery voltage, hot in Start and Run only	GN
20	Battery voltage, hot in Run only	PK
29	Battery voltage, hot at all times (secondary fused)	OG
30	Battery voltage, hot at all times (not fused and primary fused)	RD
31	Ground	BK
32	Switched between: Battery voltage, Ground or Open Circuit (Plus for: front down, open, mirror leftward, unlock, on)	WH

Number	Description	Basic colour
33	Switched between: Battery voltage, Ground or Open Circuit (Plus for: front up, close, mirror rightward, lock, off)	YE
34	Switched between: Battery voltage, Ground or Open Circuit (Plus for: rear up, mirror upward, forward or module settings)	BU
35	Switched between: Battery voltage, Ground or Open Circuit (Plus for: rear down, mirror downward, reverse or inductor output voltage)	VT
48	Drain wire	NO
49	Pulsed power feed	BU
50	Battery voltage, hot in Start only	GY
59	AC Power	GY
64	DC voltage, hot only if engine runs	BU
75	Battery voltage, hot in Run and Accessory only	YE
91	Ground	BK



'02 BANTAM E.W.D DIESEL



Symbols

100-00-04

System Codes

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Distribution Systems

DA:	Splices distribution
DB:	Busbars
DC:	Circuit protection -Battery Junction Box (BJB)
DD:	Circuit protection -Central Junction Box (CJB)
DE:	Ground
DF:	Junction block
DG:	Circuit protection -Auxiliary fuse box
DH:	Distribution -Auxiliary fuse box

Actuated Systems
(high current)

AA:	Door locks and decklid (including: keyless entry/global closing)
AB:	Fourwheel drive
AC:	Headlamp levelling
AD:	Power mirrors
AE:	Occupant restraint
AF:	Powertrain (including: axle/differential/transmission)
AG:	Power roof
AH:	Power seats
AI:	Power windows
AK:	Wiper/washer

Basic Systems

BA:	Charge (including: ammeter/voltmeter)
BB:	Start

Control Systems

CA:	Climate 1
CB:	Climate 2
CC:	Ride suspension
CD:	Self-levelling suspension
CE:	Power steering (variable automatic power assist)
CF:	Traction (including: anti-lock/brakes)

Gauge Systems

GA:	Level / Pressure
GB:	Miscellaneous (including: speedometer/clock)
GC:	Pressure
GD:	Temperature

Heated Systems

HA:	Auxiliary (including: air/filter/lighter)
HB:	De-ice (including: ejectors/mirrors/washer jets/windows)
HC:	Heated seats

Occupant Restraint Systems

JA:	Air Bags
-----	----------

Lighting Systems

LA:	Control and instrument
LB:	Courtesy (glove box/hood/luggage comp./map/recharg. flashlight/vanity)
LC:	Entry (including: dome/floor/door)
LD:	Fog/flood/driving
LE:	Head (including: concealed/dim-dip/daytime running)
LF:	Parking/marker/licence/clearance
LG:	Direction indicator/cornering/hazard/stop/reverse

Miscellaneous Systems

MA:	Air Bags
MB:	Anti theft
MC:	Communication
MD:	Entertainment
ME:	Horn
MF:	Police
MG:	Unique special vehicle (taxi/police/ambulance)
MH:	Trip computer

Powertrain Control Systems

PA:	Engine control (common and extra carburated)
PB:	Engine control (extra fuel injected 2)
PC:	Engine control (extra fuel injected 1)
PD:	Engine control (extra diesel electronic)
PE:	Engine control (common diesel)
PF:	Transmission control
PG:	Vehicle speed and engine RPM

Indicator Systems
(stand alone)

WA:	Audio warning (including: buzzers/chimes)
WB:	Level
WC:	Auxiliary warning/bulb outage
WD:	Pressure / Temperature
WE:	Temperature
XL:	Temporary numbering for future features

Connector Repair Procedures

100-00-05

A large proportion of the plugs in the electrical systems of this vehicle are new generation plugs first introduced on the Fiesta 89 and since then progressively brought into use on other vehicles. These plugs not only provide a very reliable contact, they are also easy to repair.

A wiring loom repair kit is available for such repairs. This allowed individual replacement of single connectors. The repair kit includes the required replacement connectors, the special tools needed for

assembly and an illustration of the most important -1 repair procedures.

Special tools may be ordered from
Grundy South Africa (PTY) Ltd
Corner Lindsay & Colas Roads
Korsten Port Elizabeth
Tel.: + 27 (041) 4531300
Fax: + 27 (041) 4532765

Plug Repairs Using the Wiring Loom Repair Kit

Do not use excessive force while repairing plugs. When inserting the replacement terminals listen or feel for the 'click' to make sure that the terminal engages correctly.

Special Tools

(Included in the wiring loom repair kit)

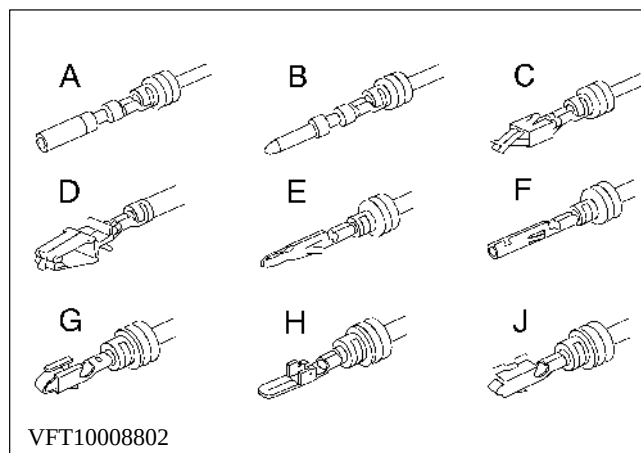
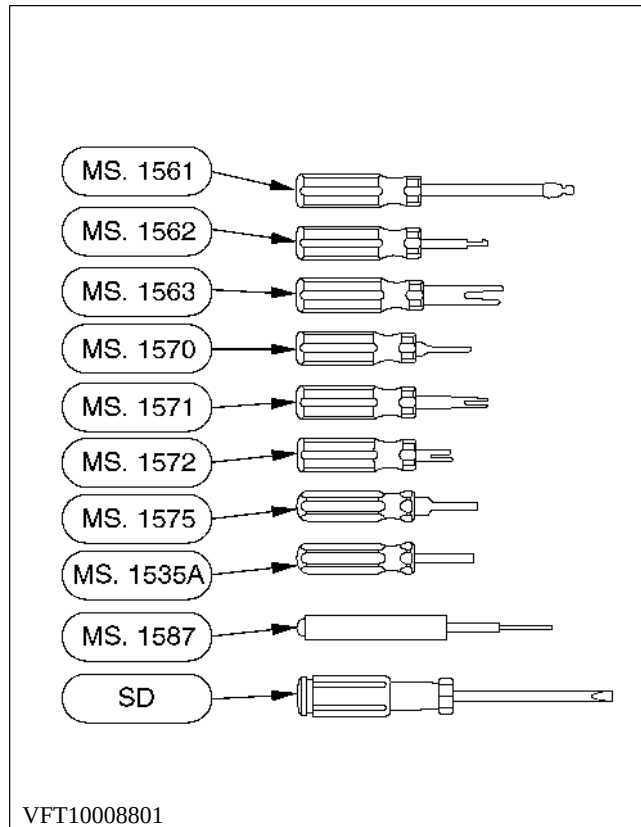
MS. 1561	=	Extractor
MS. 1562	=	Extractor
MS. 1563	=	Releasing tool I
MS. 1570	=	Extractor
MS. 1571	=	Releasing tool II
MS. 1572	=	Releasing tool III
SD	=	Screwdriver
MS. 1535A	=	Releasing tool IV
MS. 1575	=	Releasing tool V
MS. 1587	=	Releasing tool VI

Available Individual Connectors

(Included in the wiring loom repair kit)

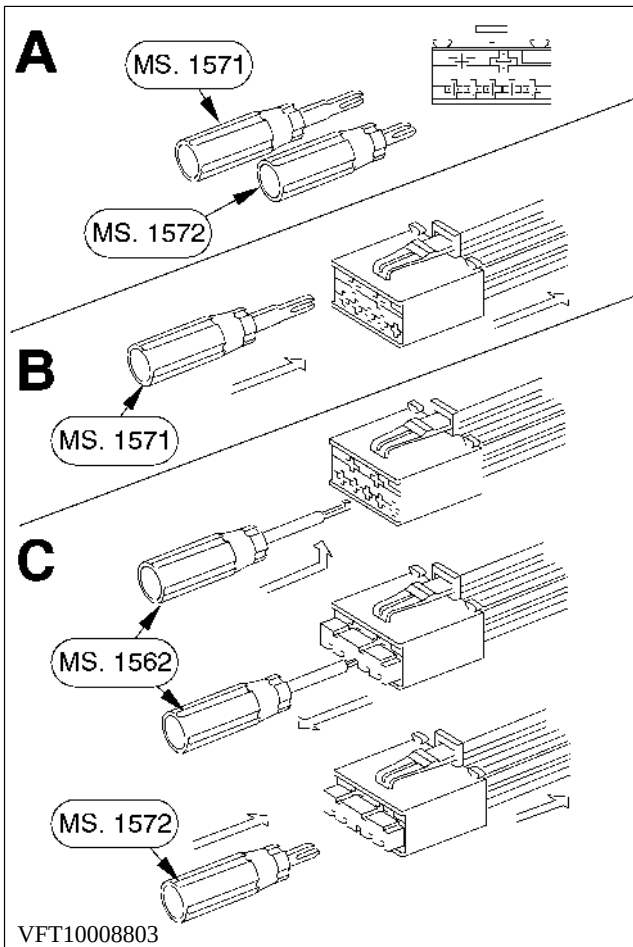
A	=	Socket terminal
B	=	Pin
C	=	DFK flat-pin terminal
D	=	ESPA DFK-1 flat-pin terminal
E	=	Pin terminal
F	=	Socket terminal
G	=	Flat socket terminal
H	=	Flat pin terminal
J	=	Socket terminal

These connectors are already provided with cable terminations of different cross sections. The repair kit also includes various crimp-on sleeves for connection to the loom cable.



Connector Repair Procedures

100-00-05



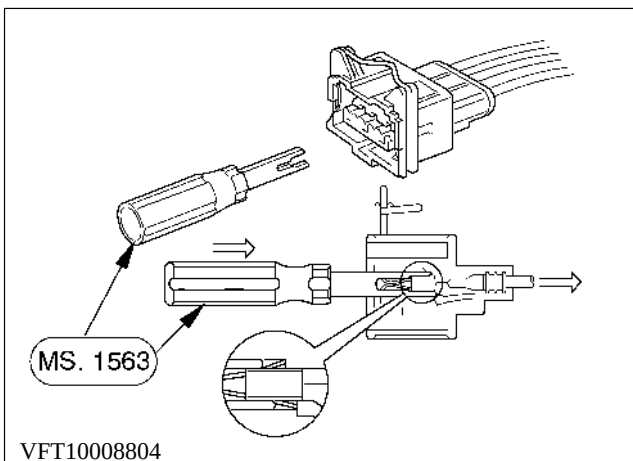
Dismantling Double-Row Multiplugs

-2

Note: Two different releasing tools are used (A),
 -MS. 1571 with two legs of equal length
 -MS. 1572 with two legs of different lengths

To remove the larger (upper) flat-pin terminal, insert releasing tool MS. 1571 and press the flat-pin terminal out towards the rear (B).

To remove the smaller (lower) flat-pin terminals, first pull out the unlocking device as far as the first stop using extractor MS. 1562 (C). Then insert releasing tool MS. 1572 with the longer leg adjacent to the red locking device and press the small flat-pin terminal out to the rear (C). Insert the replacement terminal and then engage the locking device fully again.



Dismantling Type DFK Multiplugs

Insert releasing tool MS. 1563 with the longer leg adjacent to the red locking device and press the DFK flat-pin terminal out.

When inserting the replacement terminal, make sure that it engages correctly.

Connector Repair Procedures

100-00-05

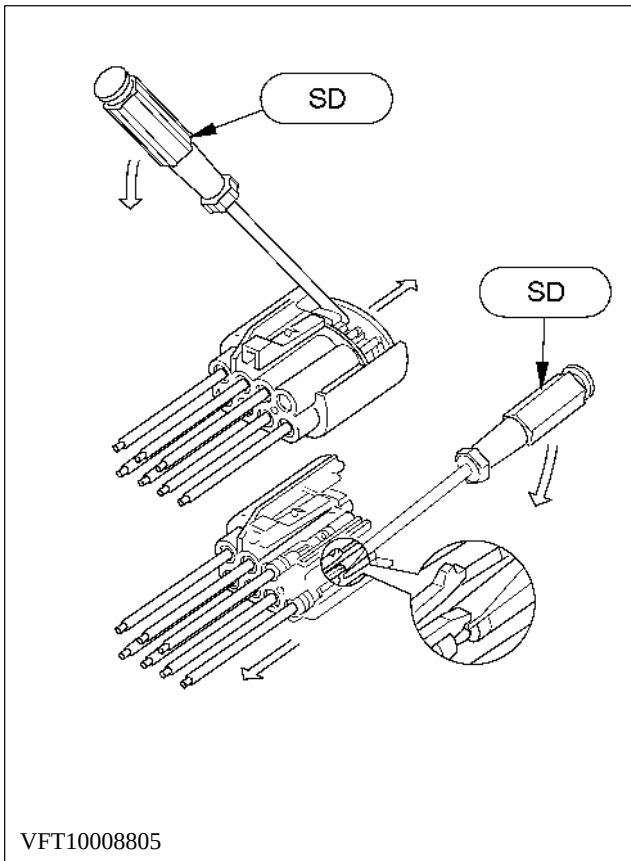
Dismantling Oval Plugs

-3

a) Pin side

Prise out the cover using screwdriver SD. Then lift the locking device of the pin in question and pull out the pin at the end of the cable.

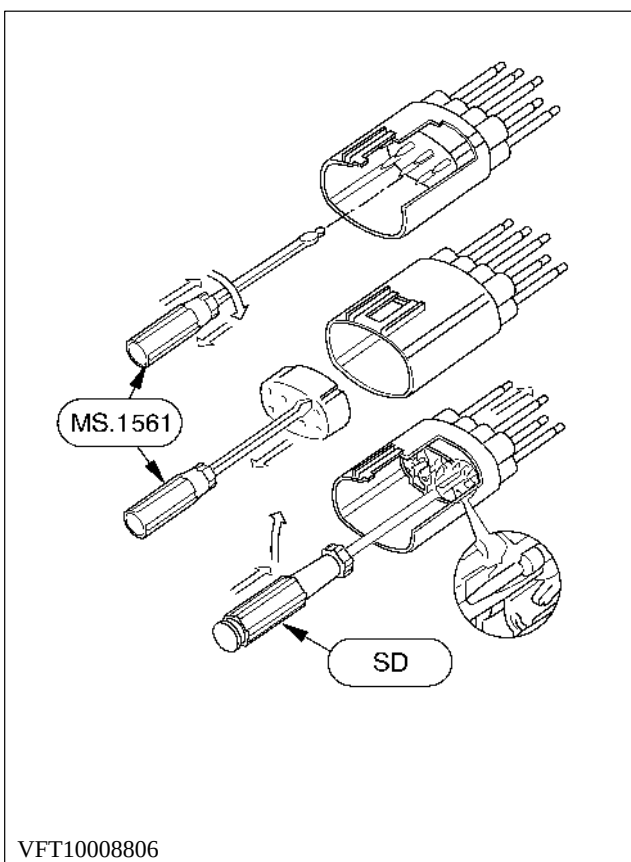
When inserting the replacement pin, make sure that it engages correctly.

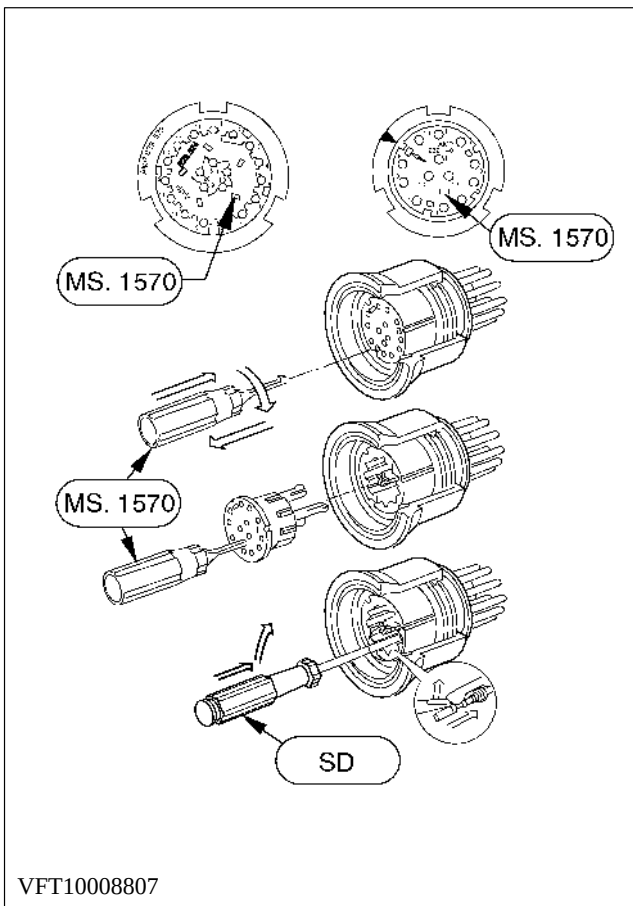


b) Socket side

Remove the locking cap completely using extractor MS. 1561. Then lift the locking device with screwdriver SD and pull out the socket terminal at the end of the cable.

When inserting the replacement socket terminal, make sure that it engages correctly.



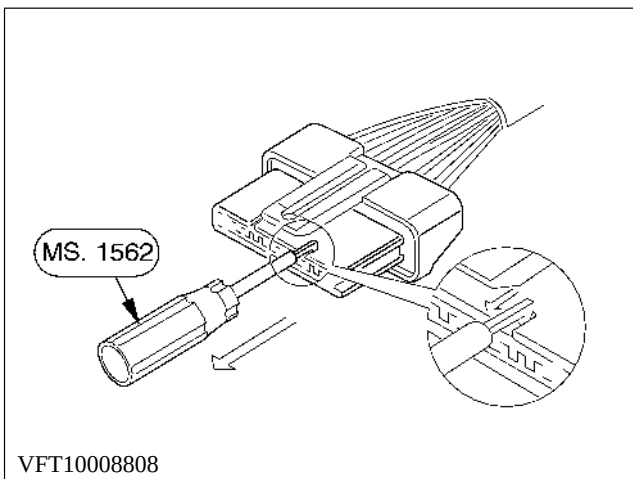
**Dismantling Round Plugs**

-4

Insert extractor MS. 1570 in one of the rectangular openings, turn through 90° and pull out the red locking device completely.

Then lift the locking tab of the pin or sleeve-type terminal in question slightly with screwdriver SD and pull out the terminal on the cable.

When inserting the replacement terminal, make sure that the terminal and red locking device engage fully.

**Dismantling Single-Row Multiplugs**

Pull the locking device towards the front using extractor MS. 1562 (to disengage it).

Then pull out the single terminal in question on its cable towards the rear.

The locking device must engage correctly after insertion of the replacement terminal.

Connector Repair Procedures

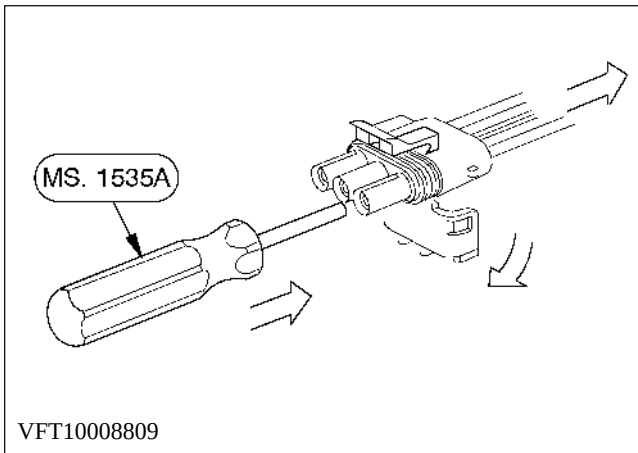
100-00-05

Dismantling 3-Pin Plugs

-5

Open the locking device. Then press in the pin in question - as shown - with the available releasing tool MS. 1535A and pull out the cable towards the rear.

When inserting the replacement terminal, listen or feel for the 'click' to make sure that the pin and locking device engage correctly.



Gold-plated contacts

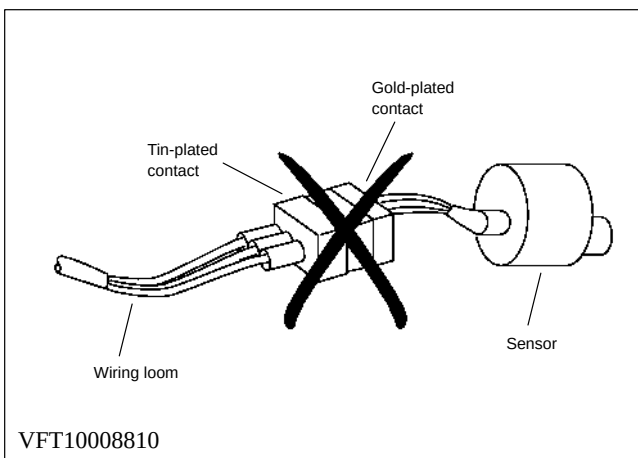
Servicing sensors and connectors with gold-plated contacts for engine control systems

Connectors with gold-plated contacts have been introduced at various critical connections (current less than 1 mA, voltage under 5 V) in the engine control systems. Gold-plated contacts have significantly less resistance than the tin-plated contacts which have been used previously. Uninterrupted, interference-free signal transmission to the engine control unit can thus be guaranteed.

NOTE:

Gold-plated contacts must never be connected with tin-plated contacts (figure VFT10008810). Not only can the gold plating be damaged, but the resulting resistance is much higher than either a gold-gold connection or a tin-tin connection.

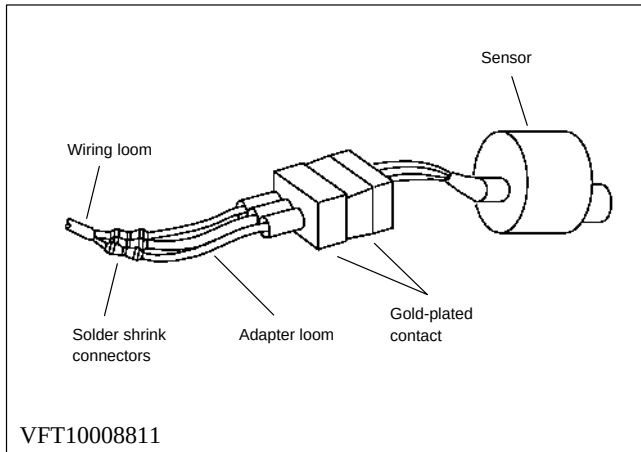
The contacts which are needed to repair the gold-plated connections can be obtained as an addition to the wiring loom repair kit from Grundy. The addition to the kit includes gold-plated contacts with white pigtails and a tube of special grease. Connectors with gold-plated contacts are protected by a special grease which is applied during production and therefore must never be treated with lithium grease.



Connector Repair Procedures

100-00-05

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When a connector or a sensor needs to be replaced, the new replacement may include gold-plated contacts.

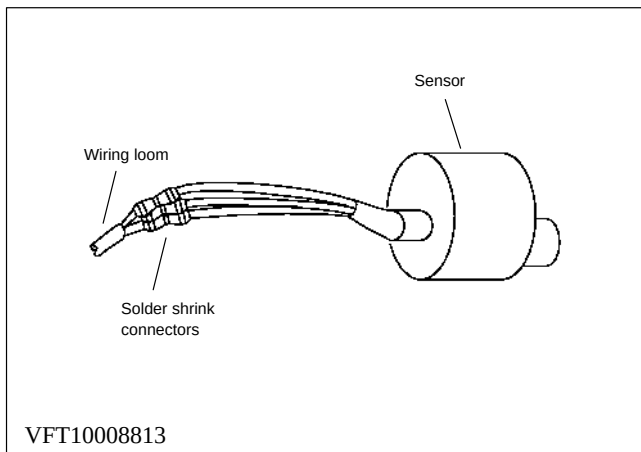
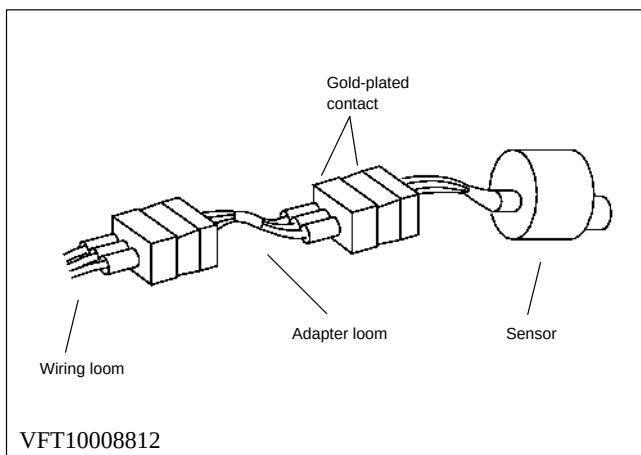
Sensors with gold-plated contacts must only be replaced with those which also have gold-plated contacts.

If a sensor with tin-plated contacts is to be replaced with a new sensor with gold-plated contacts, a special adapter loom must be used. The same applies to replacement wiring looms with gold-plated contacts which are being connected to sensors with tin-plated contacts.

The adapter loom for the throttle position sensor (TPS) and the camshaft position sensor must be attached with solder shrink connectors (figure VFT10008811). The adapter loom for the crankshaft position sensor has a connector at both ends and only needs to be plugged in between the sensor and the wiring loom (figure VFT10008812).

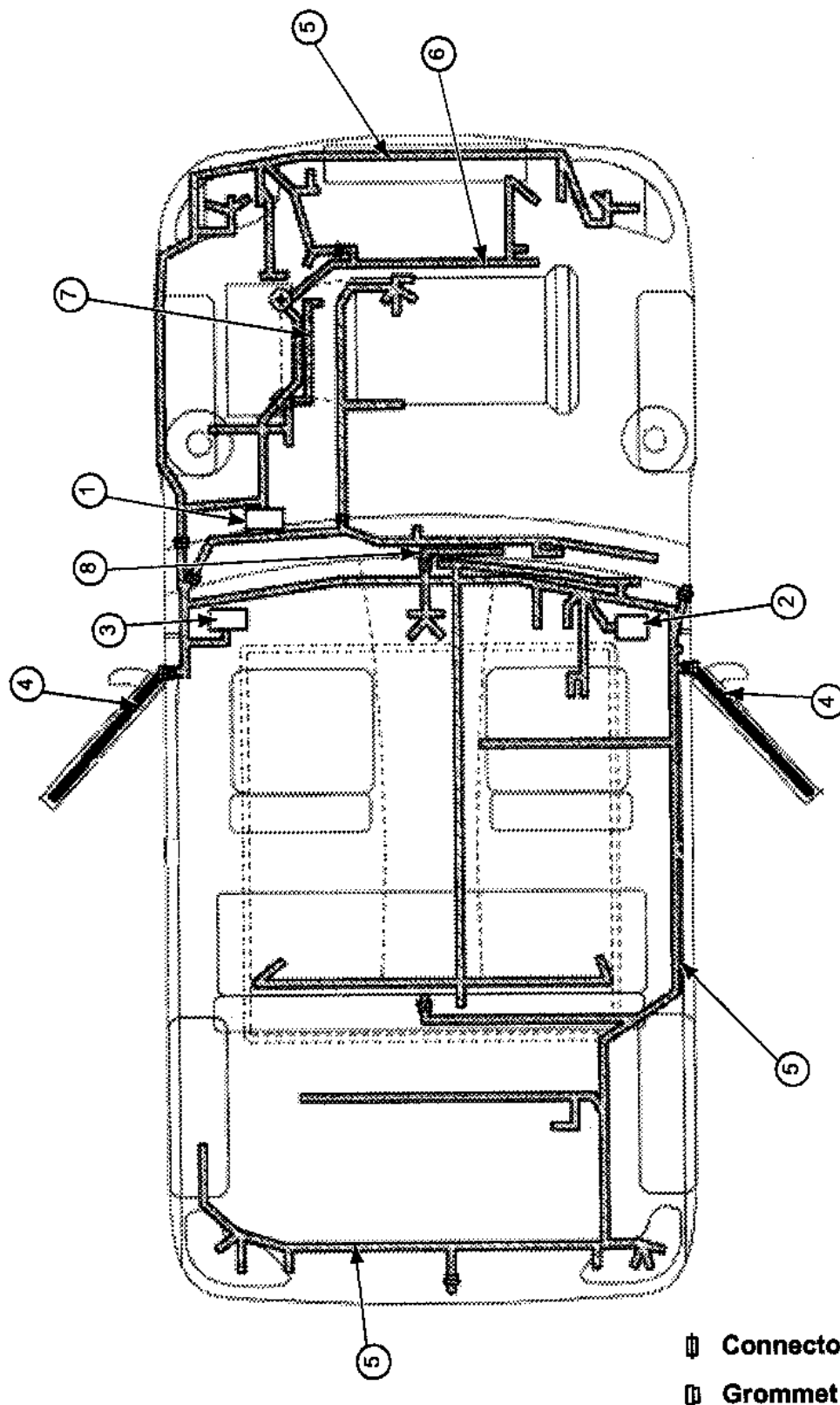
The throttle position sensor (TPS) can be replaced with a new sensor (with gold-plated contacts) by cutting the wiring loom, removing the connector and attaching the wires back together with solder shrink connectors (figure VFT10008813).

Only solder shrink connectors should be used to attach cut wires together (order from Ford parts). The solder shrink connectors that are available in the wiring loom repair kit from Grundy are approximately the same.



1,8 l Diesel Endura-DE

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Wiring Harness Overview

100-00-06

1,8 I Diesel Endura-DE

-8

Item	Part Number	Description
1	–	Battery Junction Box (BJB)
2	–	Central Junction Box (CJB)
3	–	Powertrain control module (PCM)
4	14A584	Wiring harness -Door
5	14401	Main wiring harness
6	14300	Wiring harness -Battery output
7	14301	Wiring harness -Engine ground
8	18B518	Wiring harness -Heater blower

Chassis

Group 2

Currently no chassis electrical systems are installed on this vehicle.

Powertrain

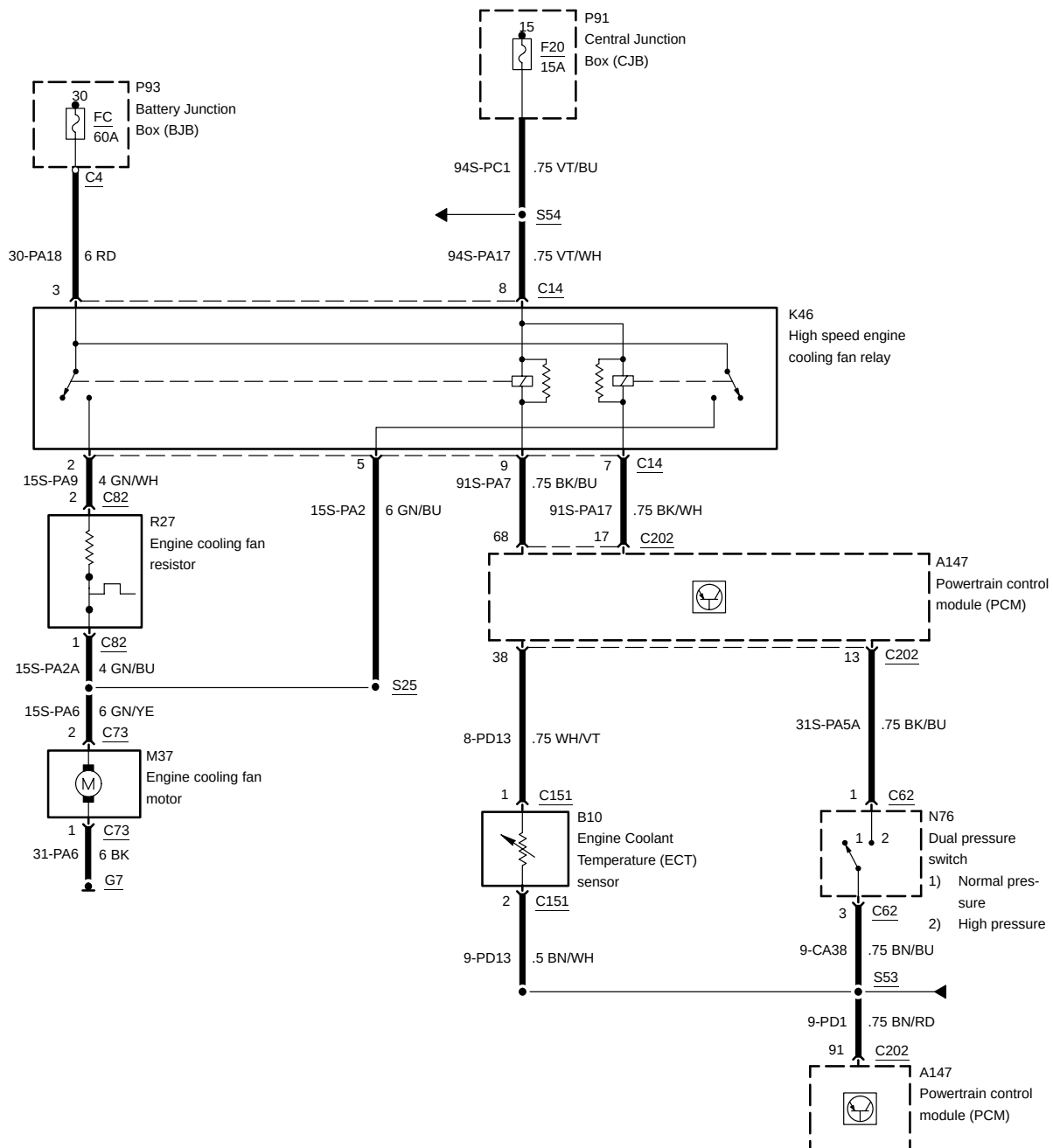
Group 3

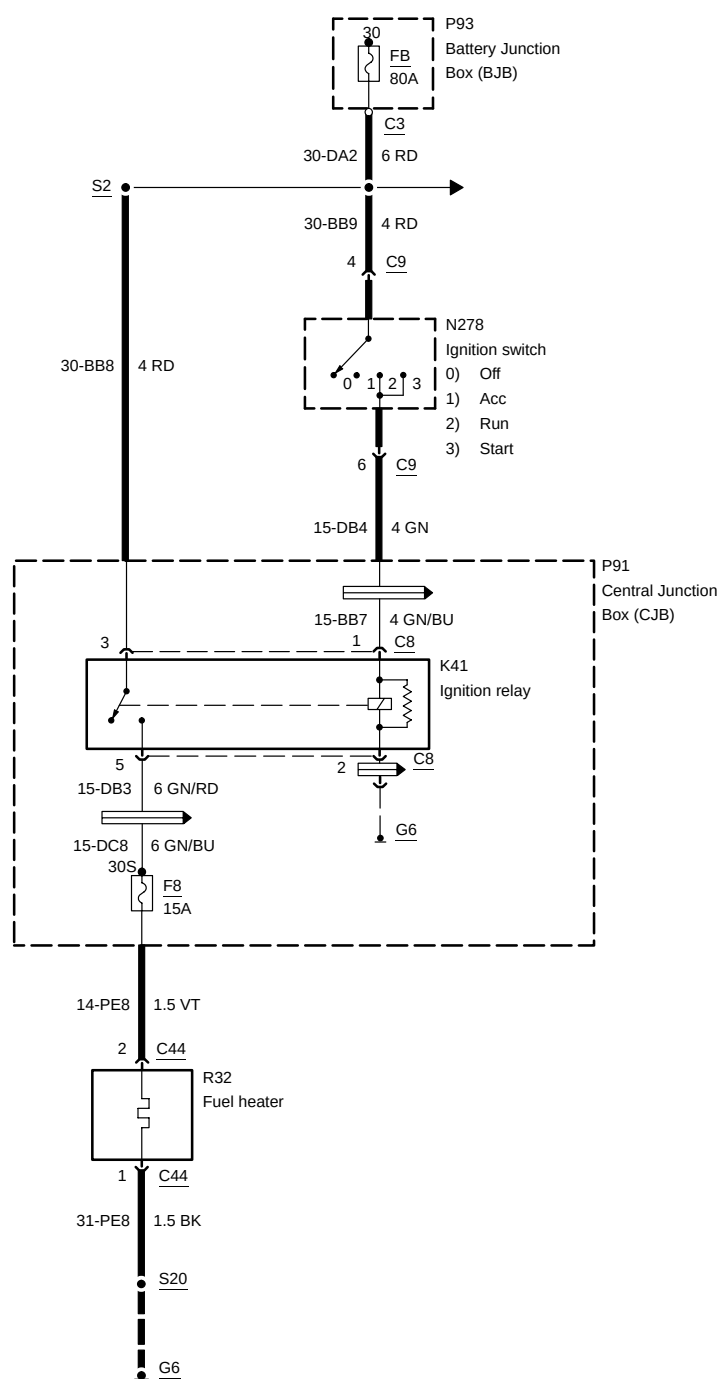
Engine

Engine Cooling	303-03-00-3
Fuel Charging and Controls – 1,8 l Diesel Endura–DE	303-04D-00-1
Starting System	303-06-00-2
Glow Plug System – 1,8 l Diesel Endura–DE	303-07D-00-1
Electronic Engine Controls – 1,8 l Diesel Endura–DE	303-14D-00-A/3
Electronic Power Steering	303-15-00

1,8 l Diesel Endura-DE

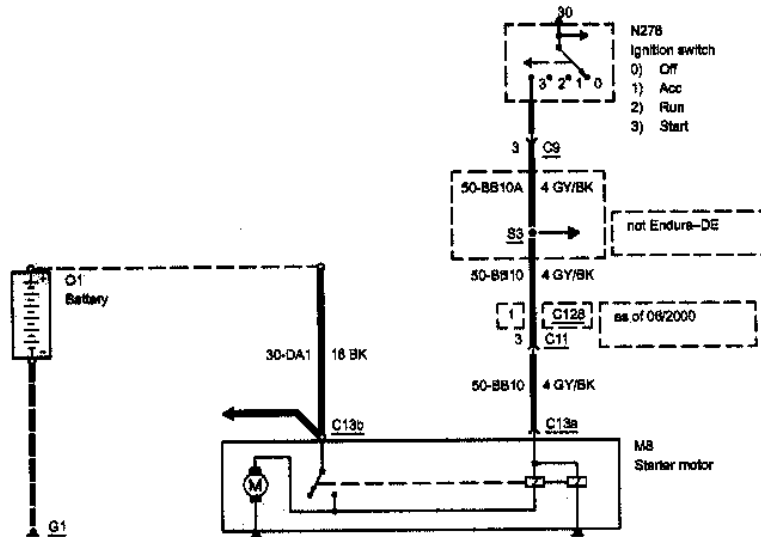
-3





1,8 l Diesel, 1,8 l Diesel Endura-DE

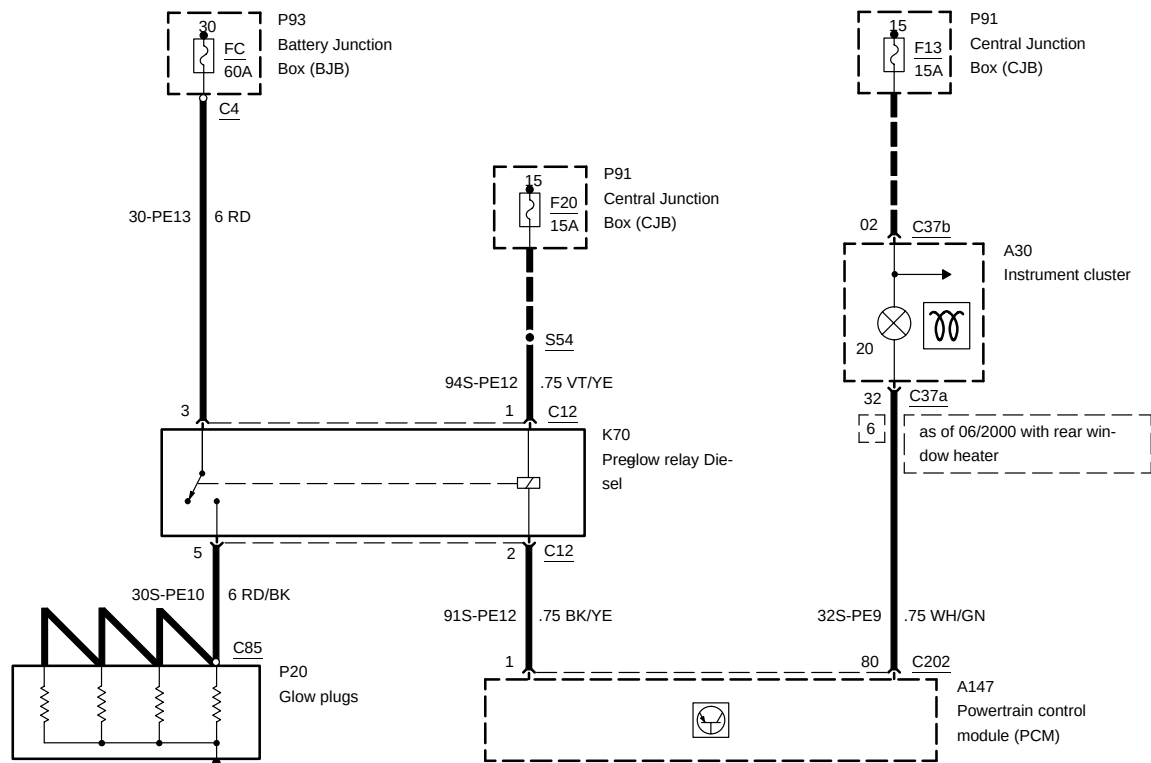
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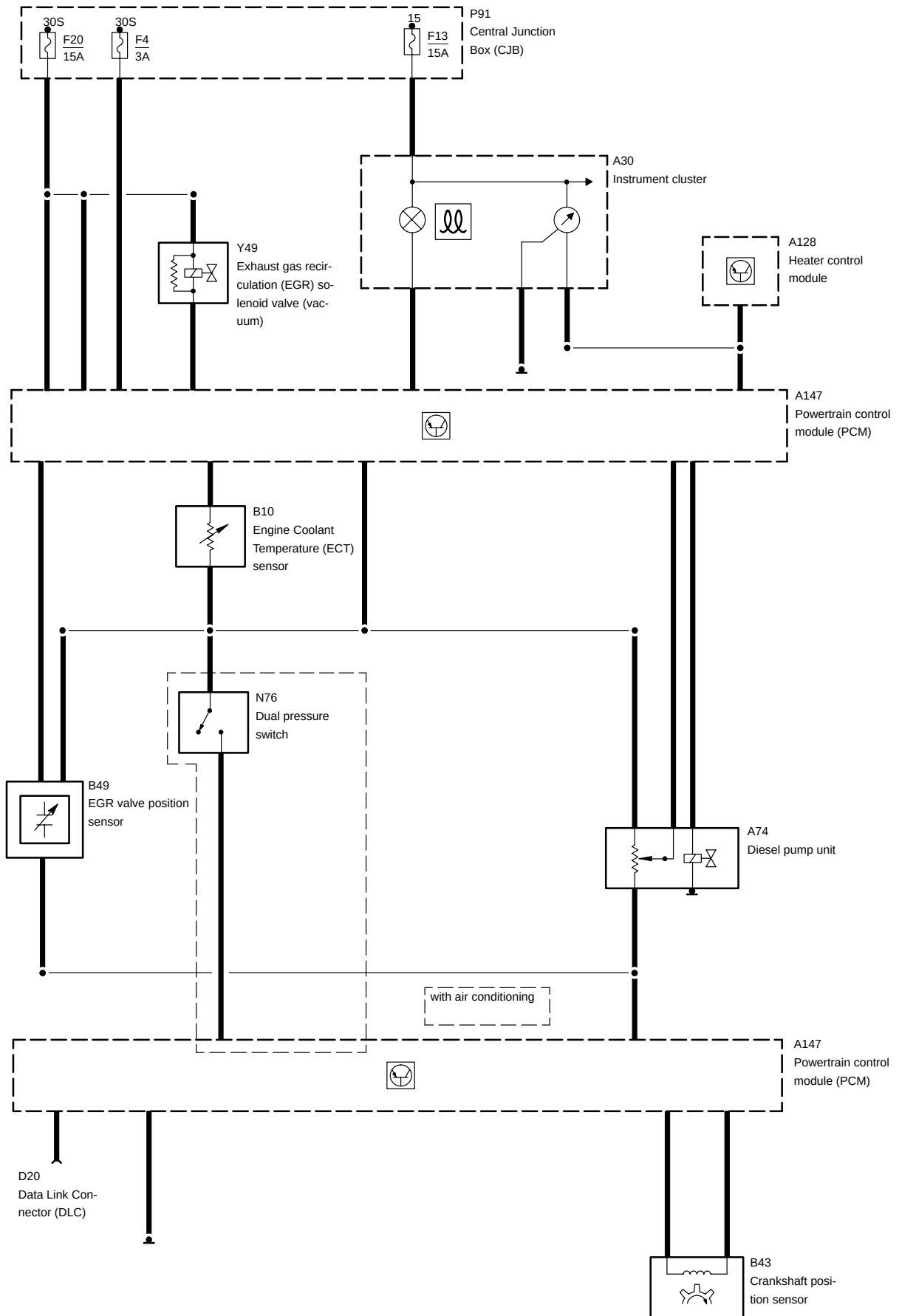


Glow Plug System – 1,8 l Diesel Endura-DE

303-07D-00

-1

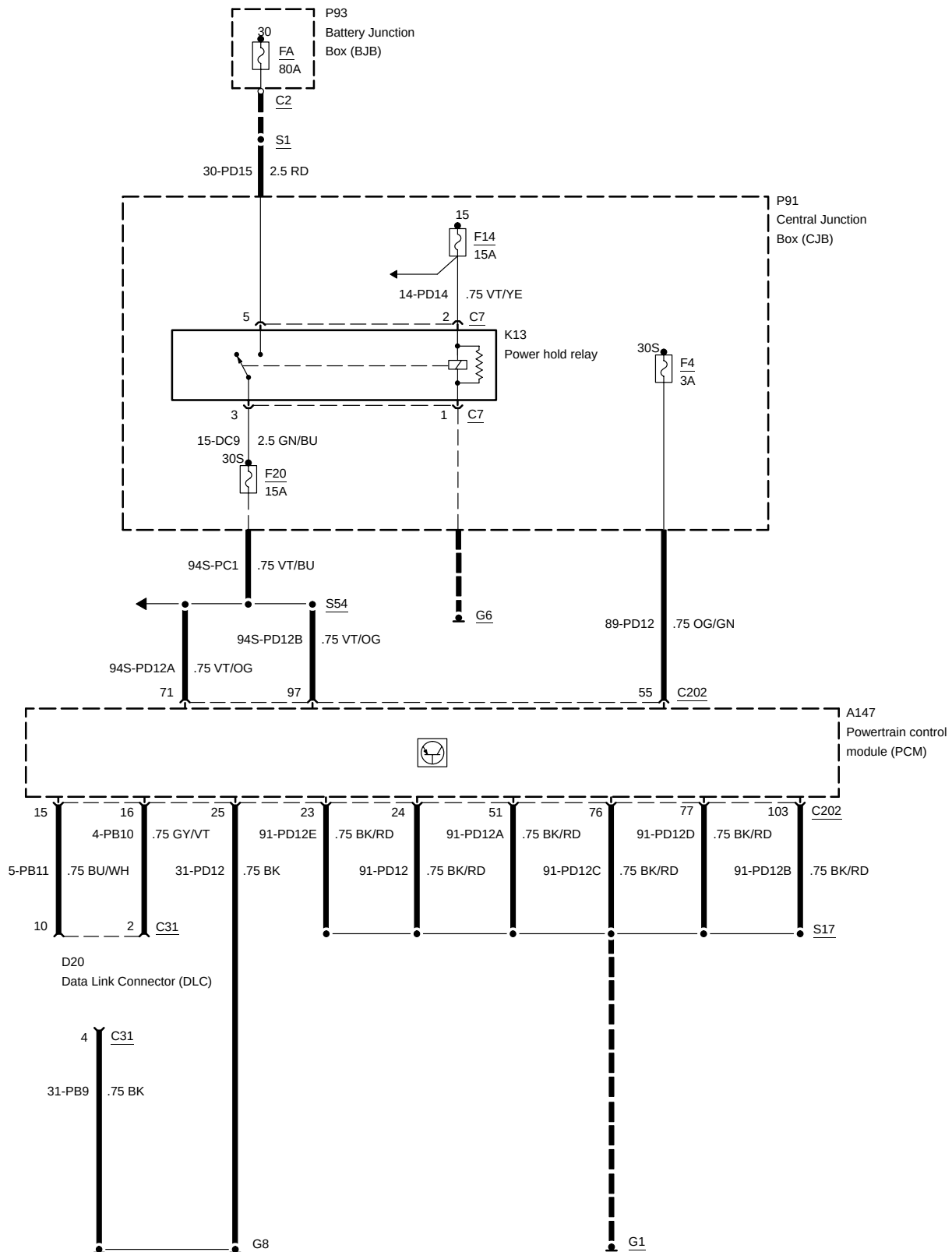




Electronic Engine Controls – 1,8 l Diesel Endura-DE

303-14D-00

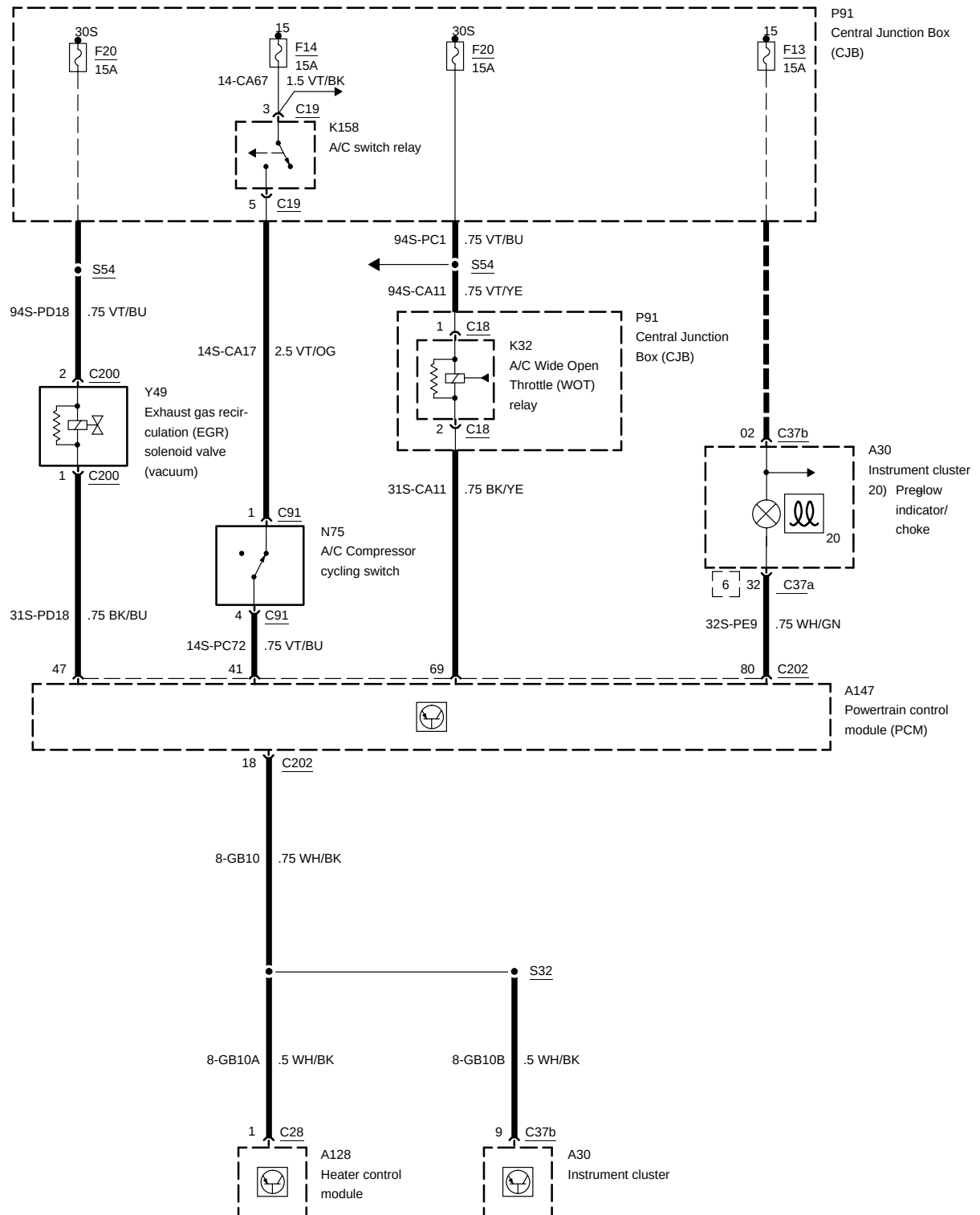
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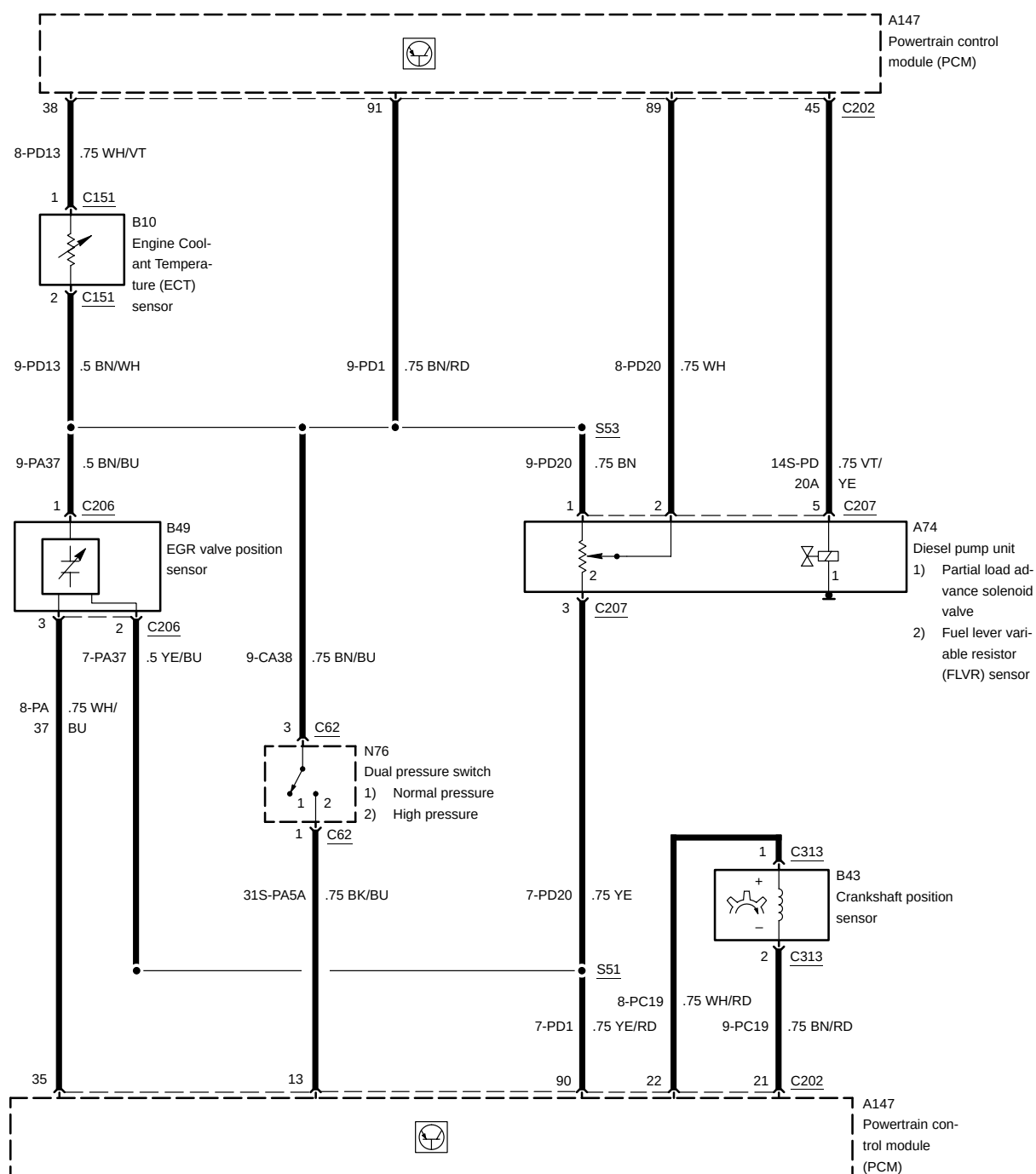


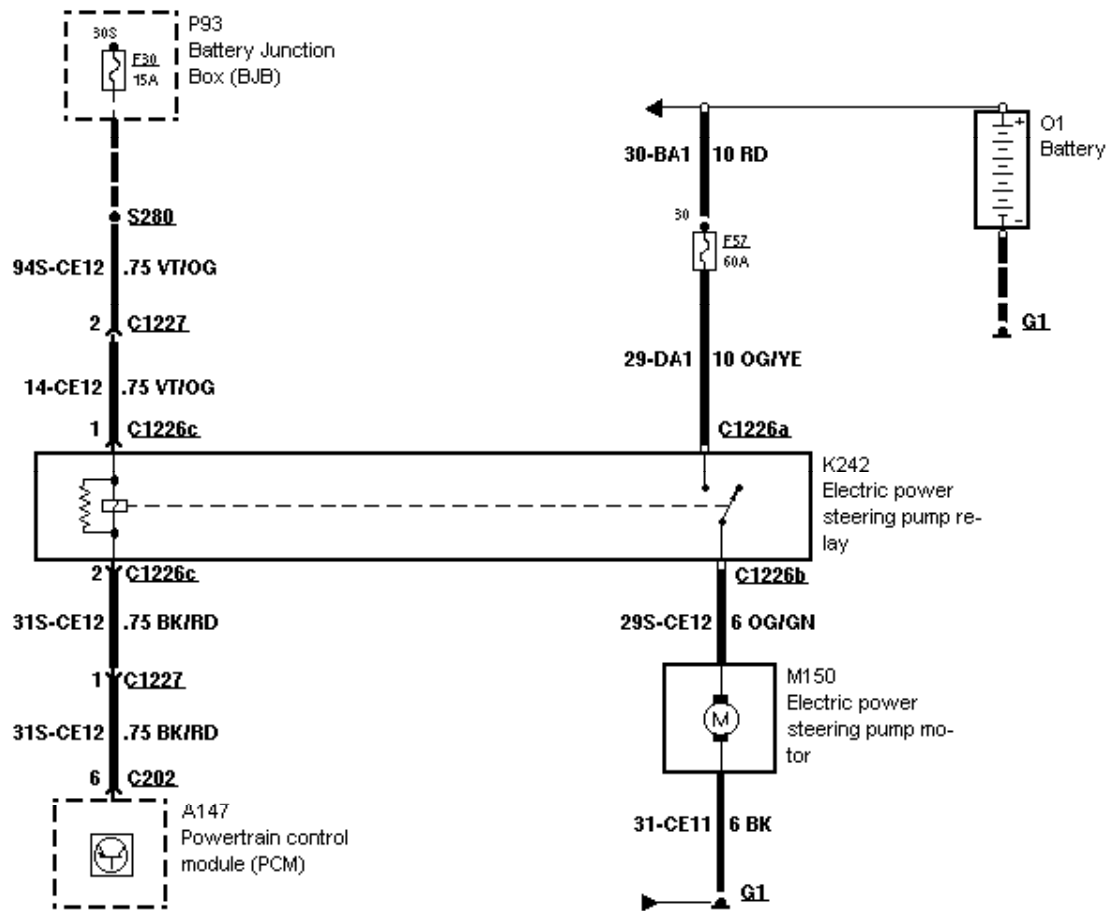
Electronic Engine Controls – 1,8 l Diesel Endura-DE

303-14D-00

-2







Electrical

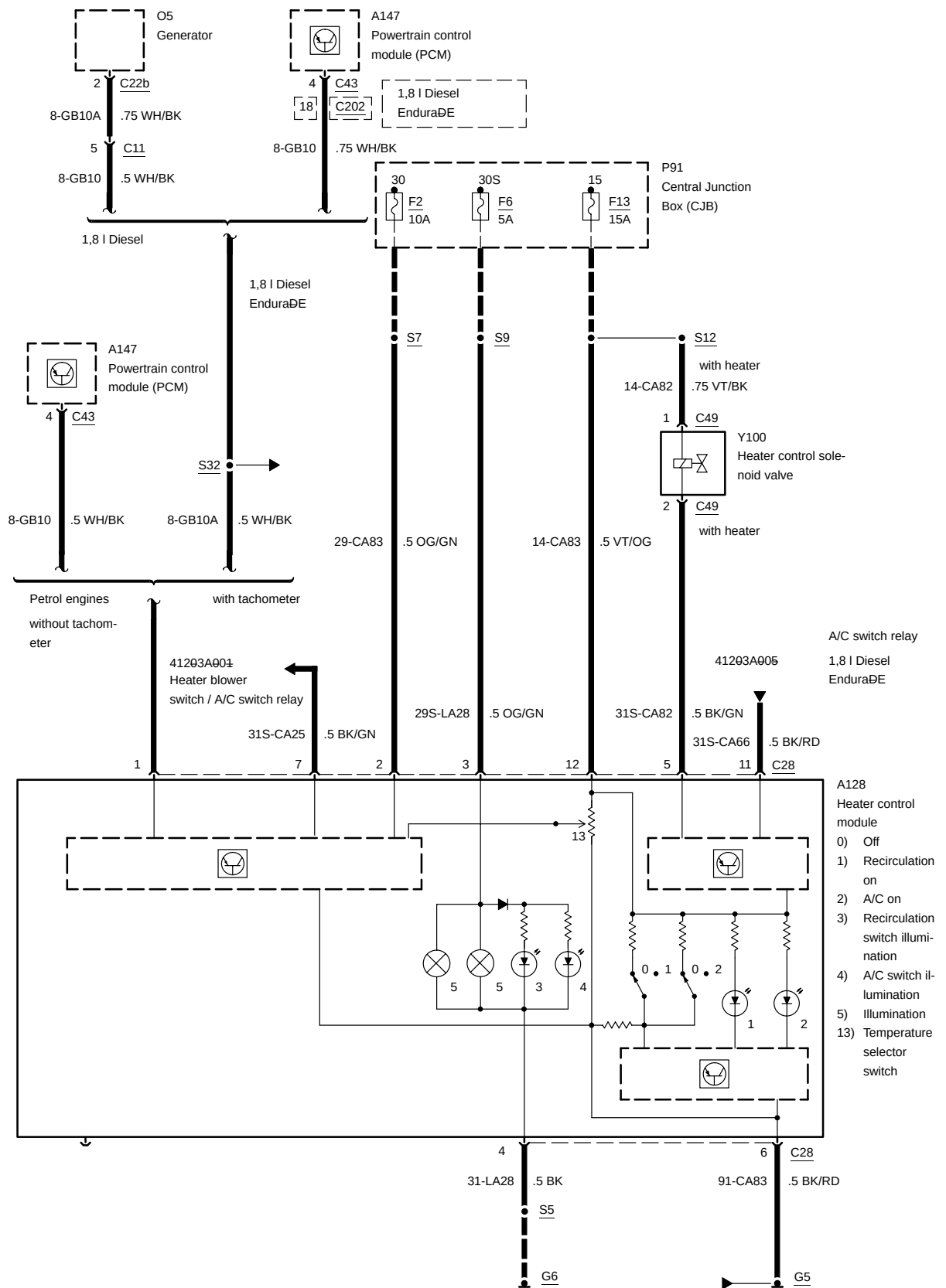
Group4

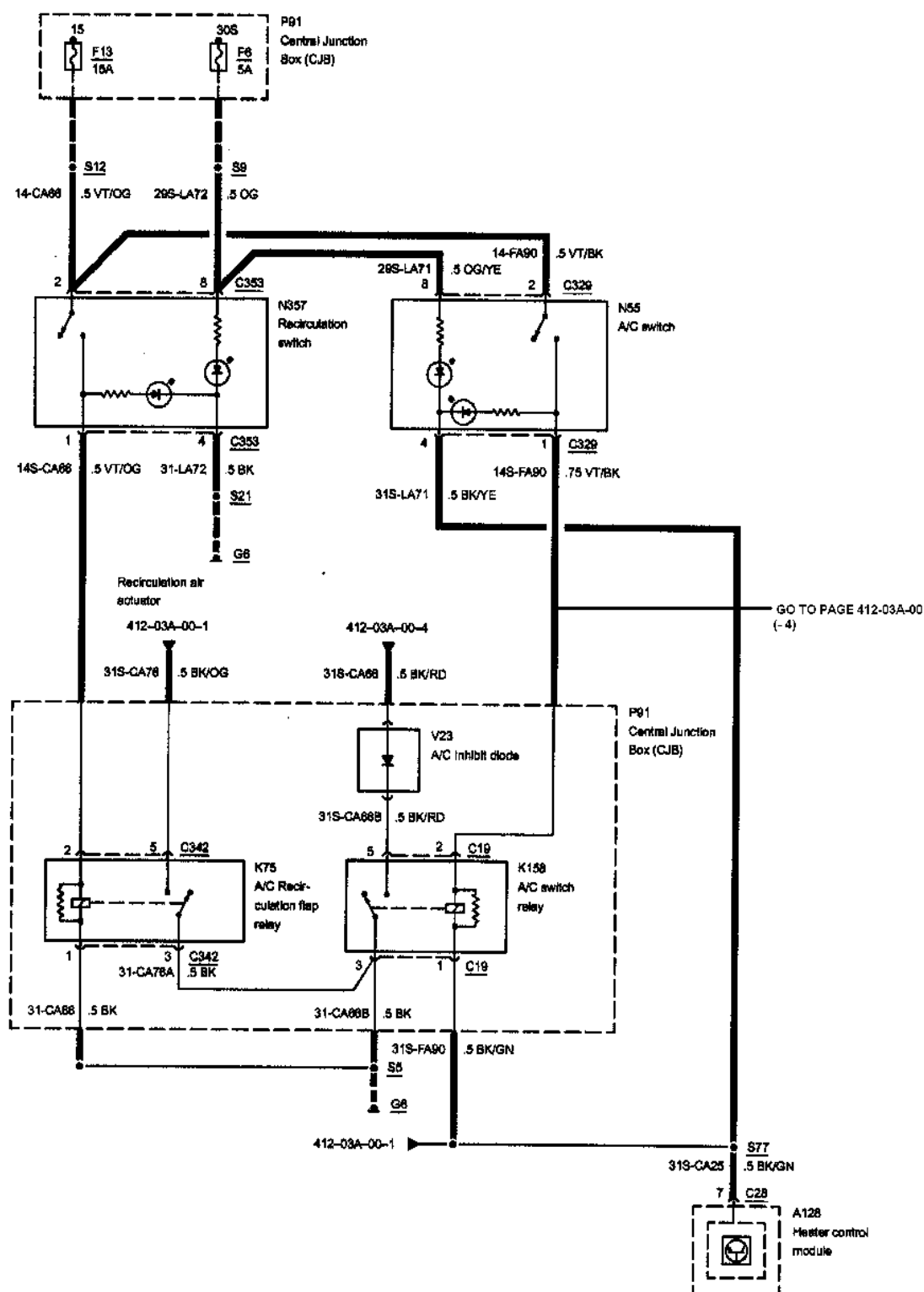
Climate Control System	
Air Conditioning	412-03A-00-2/5
Instrumentation and Warning System	
Instrument Cluster	413-01-00-1/4
Generator and Regulator	414-02-00-4
Module Communications Network	418-00-00-2/4
Electronic Feature Group	
Anti-Theft - Passive	419-01B-00

Air Conditioning

412-03A-00

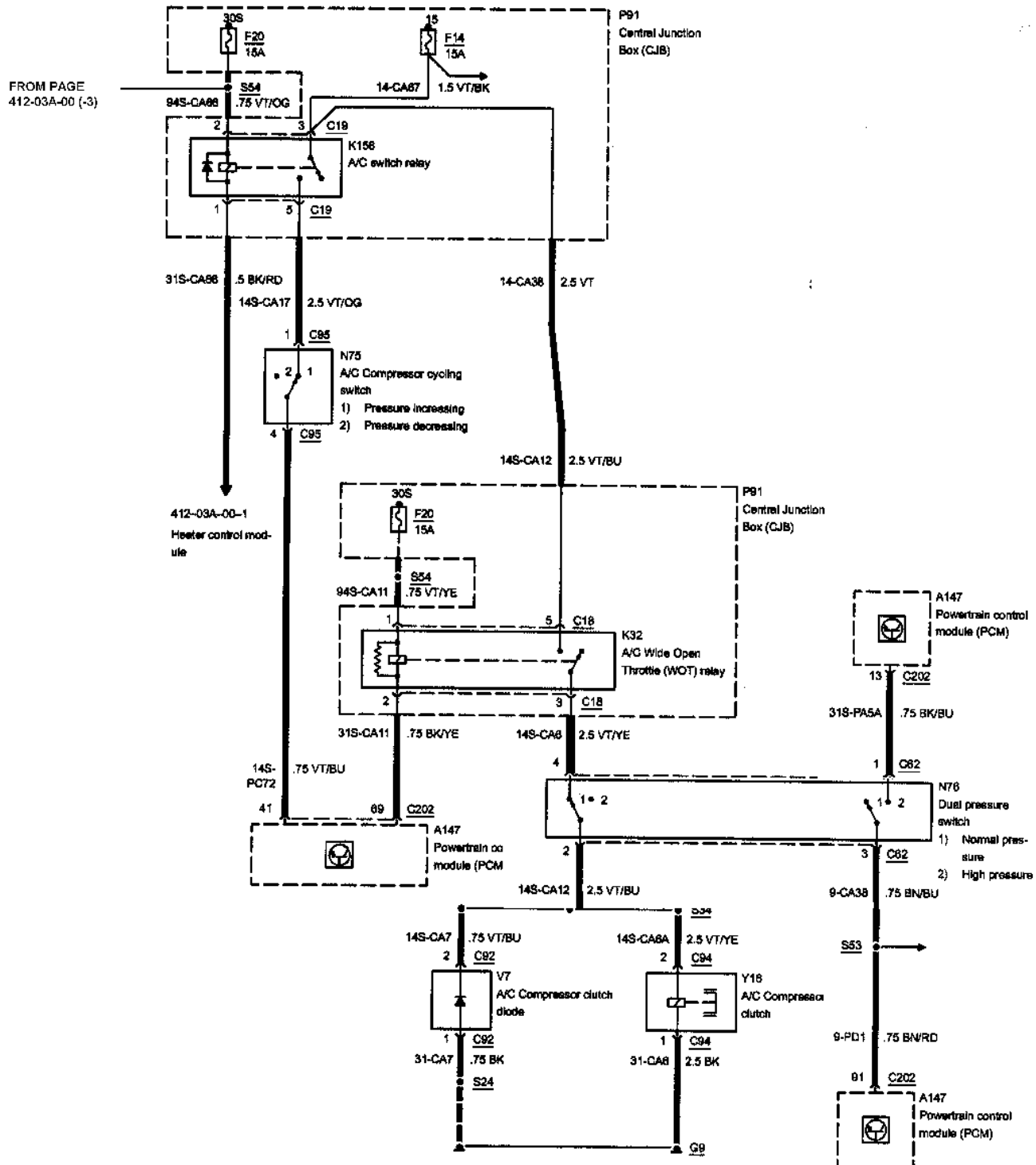
-2





1,8 | Diesel Endura-DE

-4

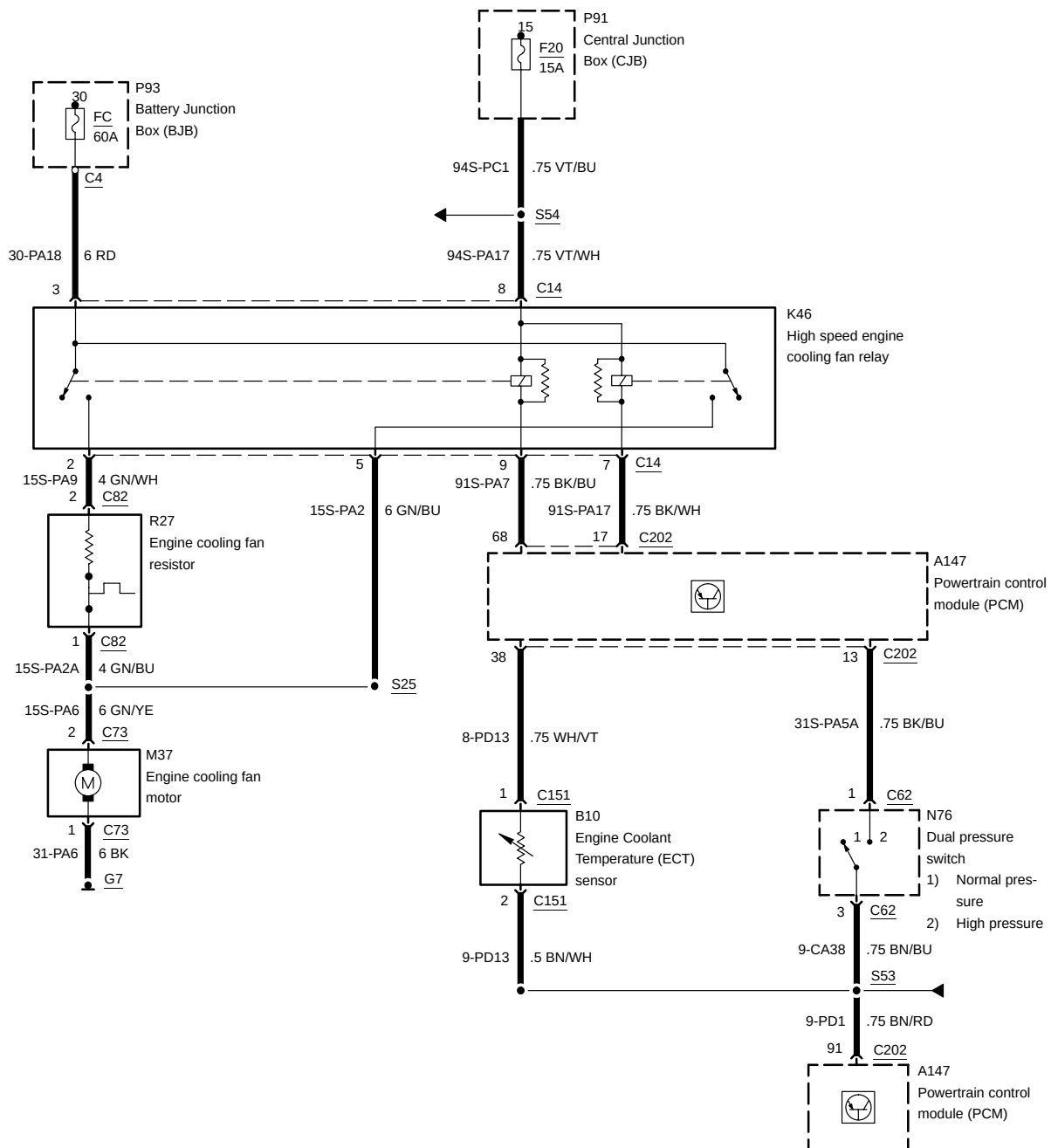


Air Conditioning

412-03A-00

1,8 I Diesel Endura-DE

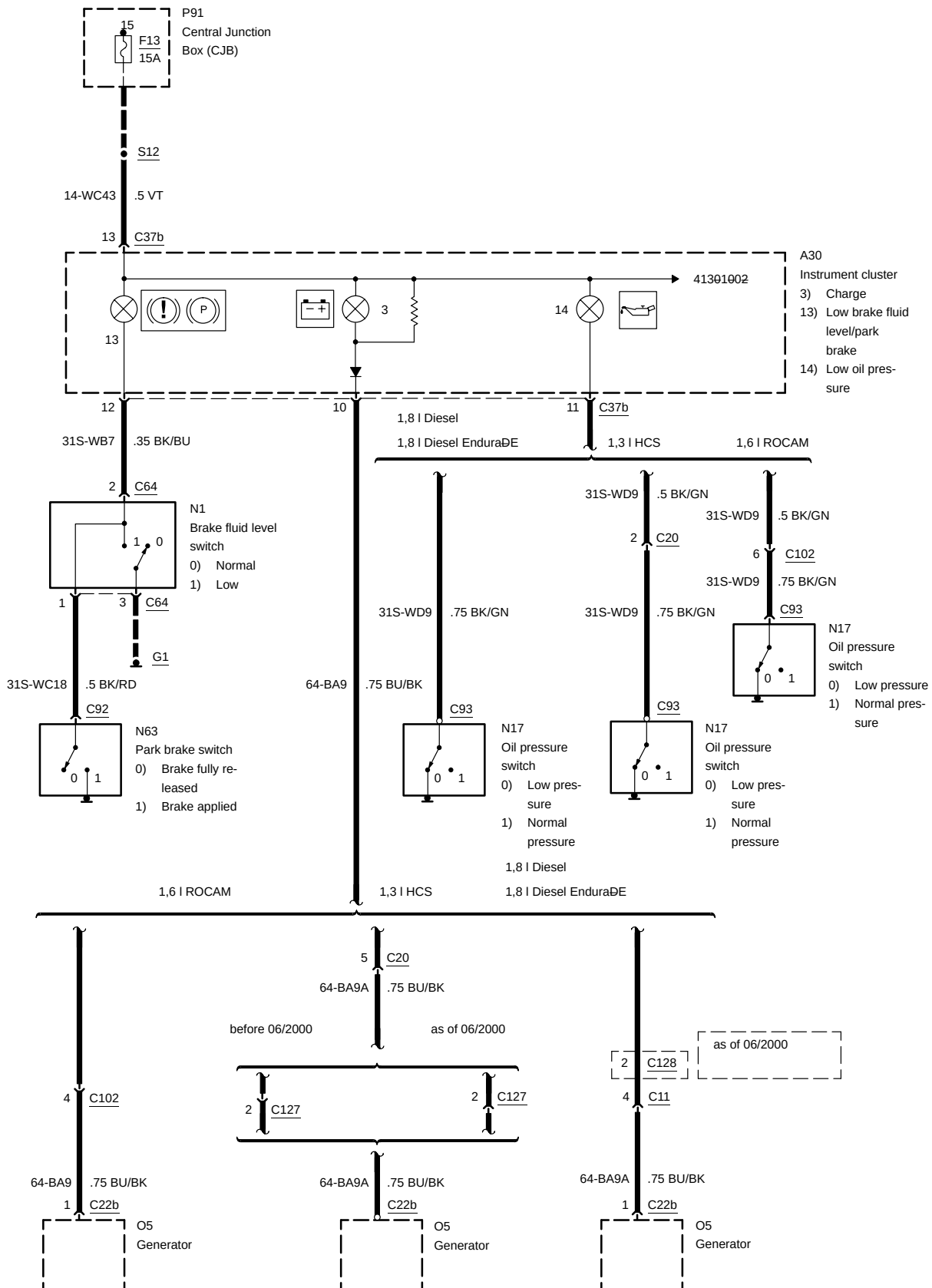
-5



Instrument Cluster

413-01-00

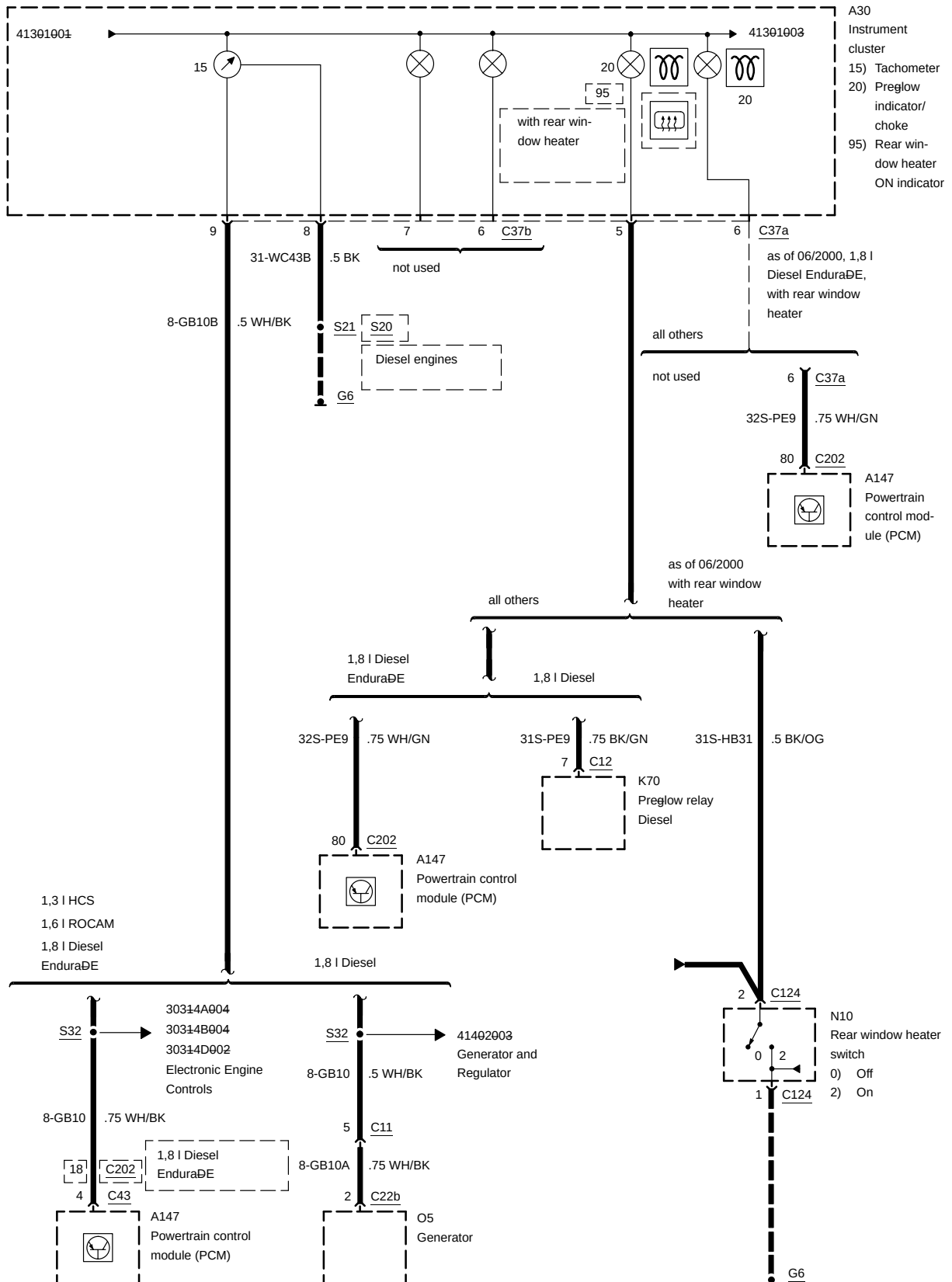
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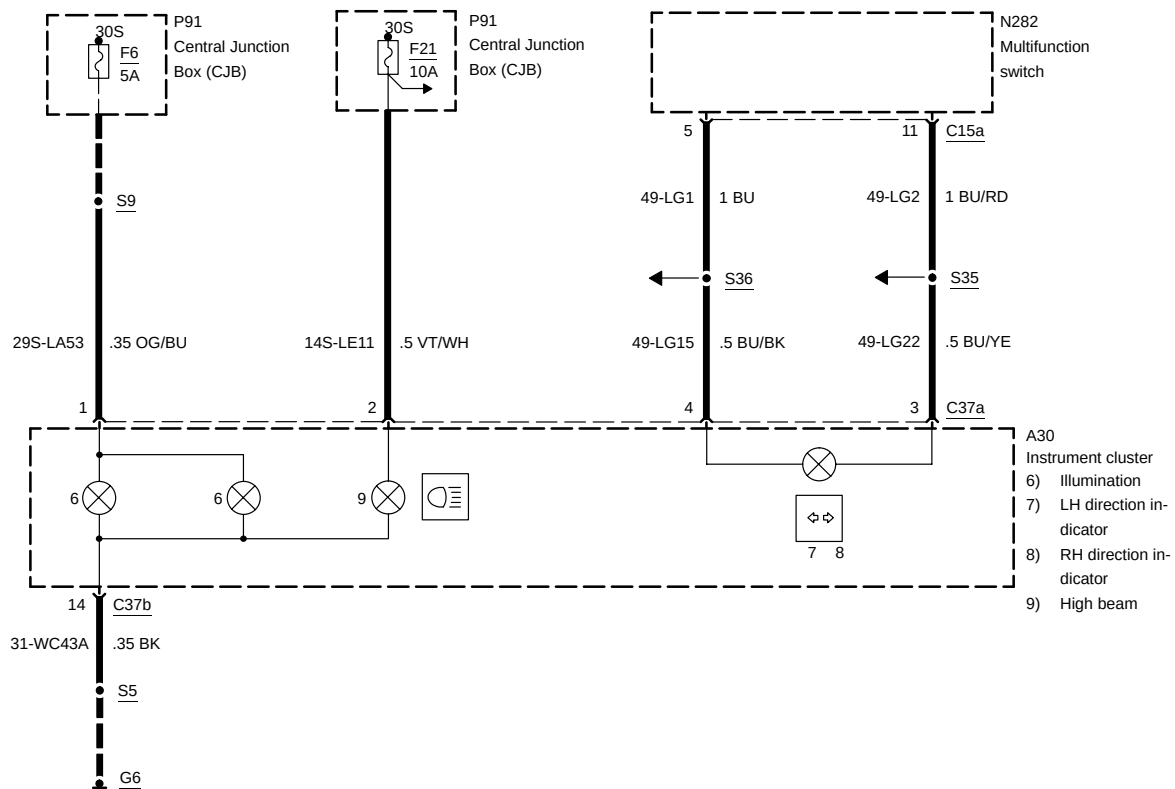
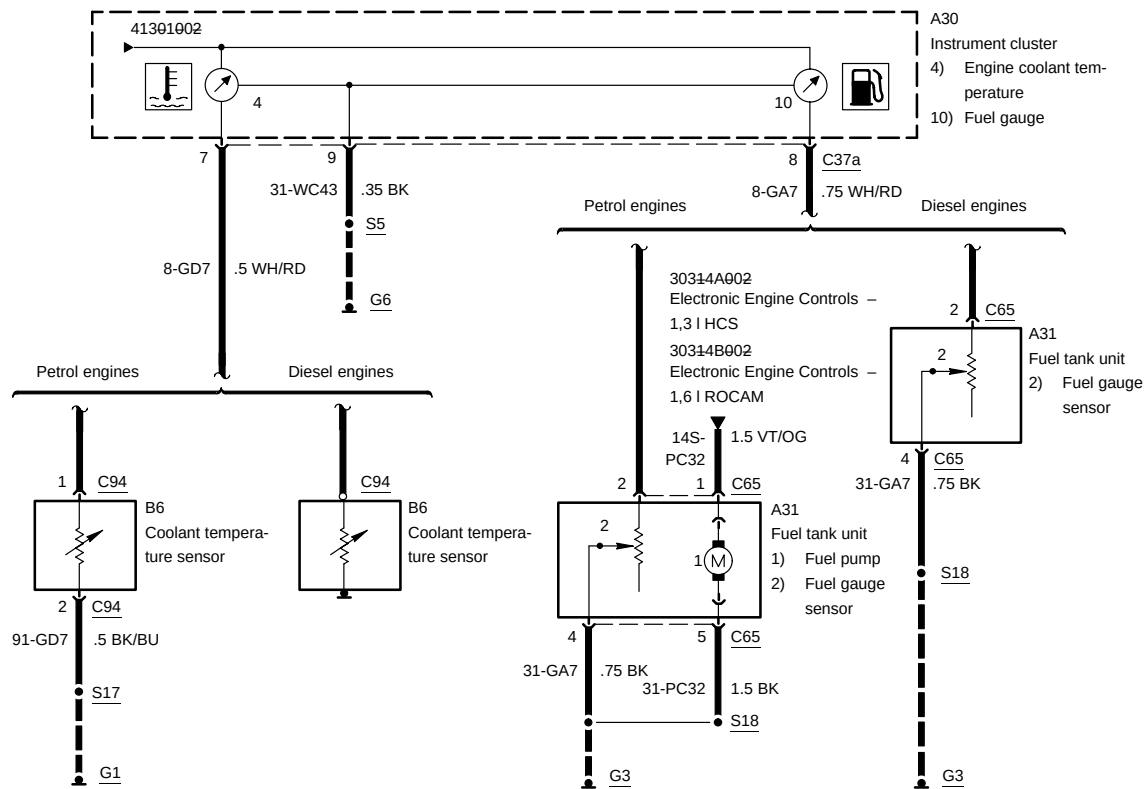


Instrument Cluster

413-01-00

-2



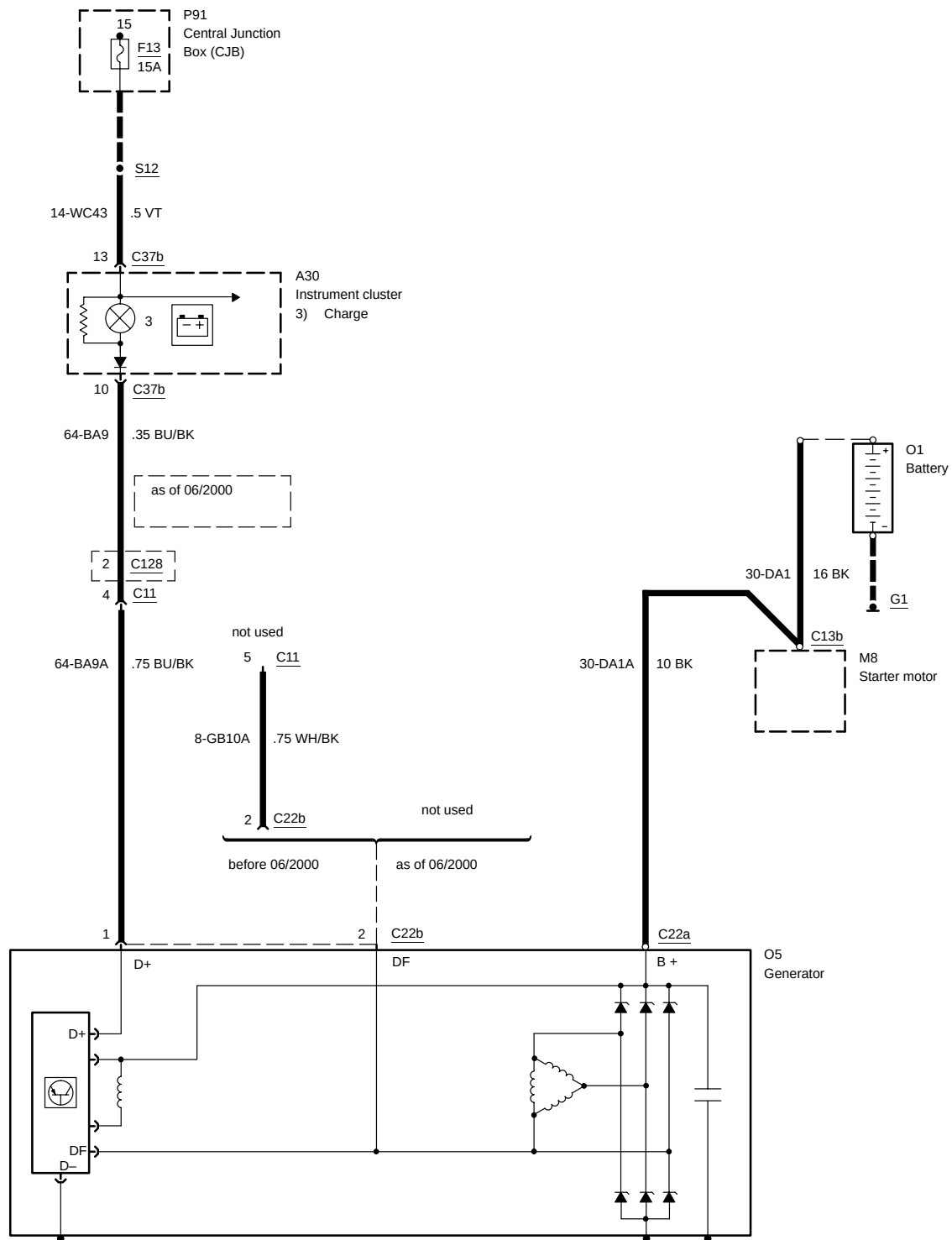


Generator and Regulator

414-02-00

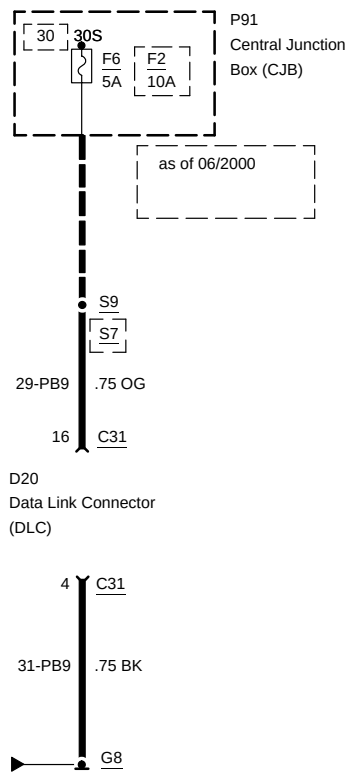
1,8 I Diesel Endura-DE

-4



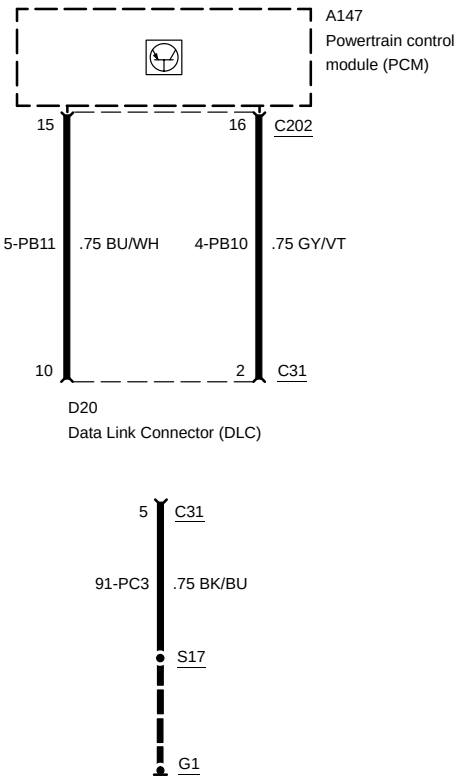
Data link connector, pins 4 and 16, 1,8 I Diesel Endura–DE

-2

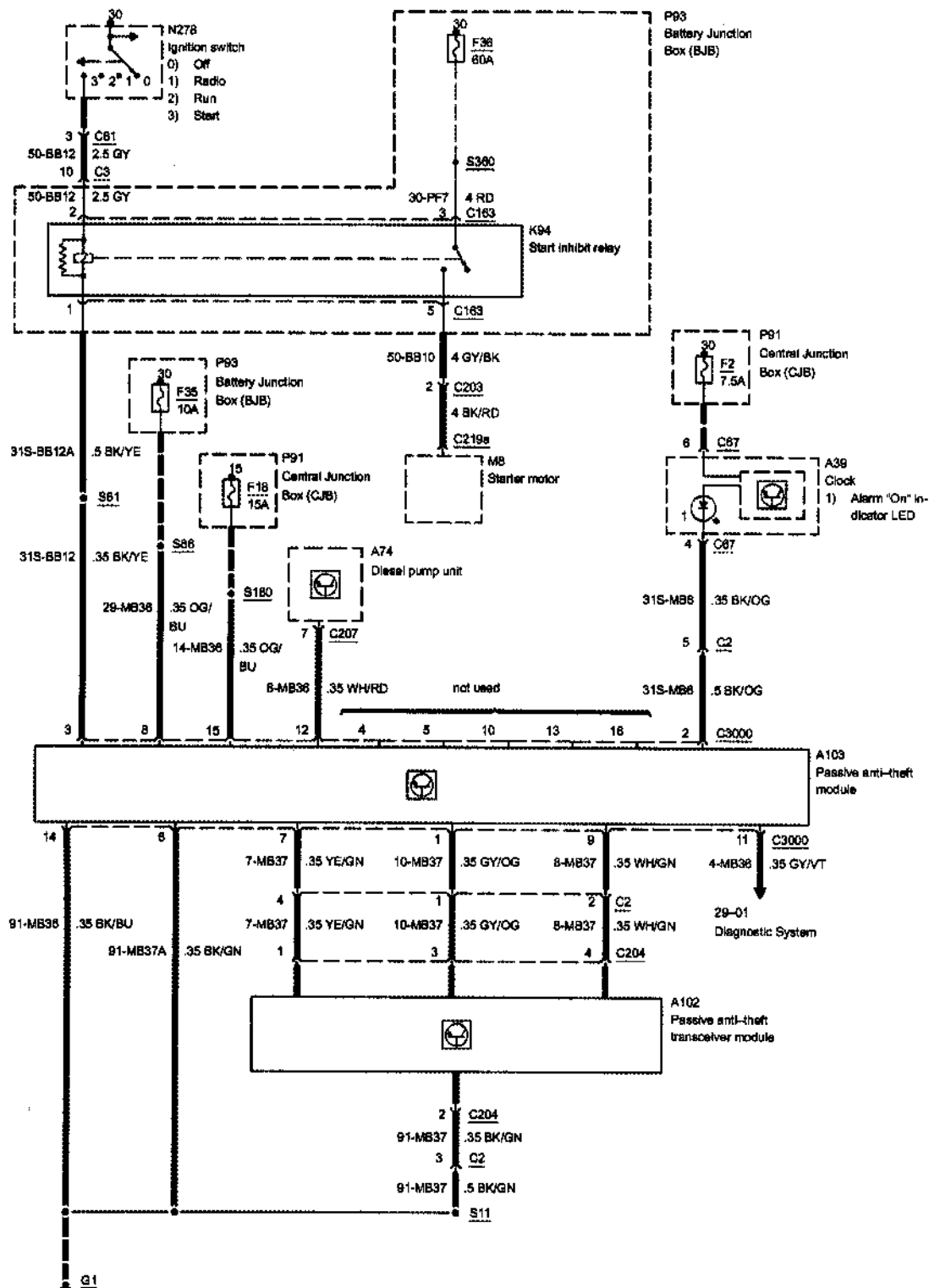


Data link connector, pins 2, 5, 10 and 13, 1,8 I Diesel EnduraDE

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1,8 I Diesel Endura-DE



Body and Paint ^{Group} 6

Currently no Body and Paint systems are installed on this vehicle.

General Wiring Information

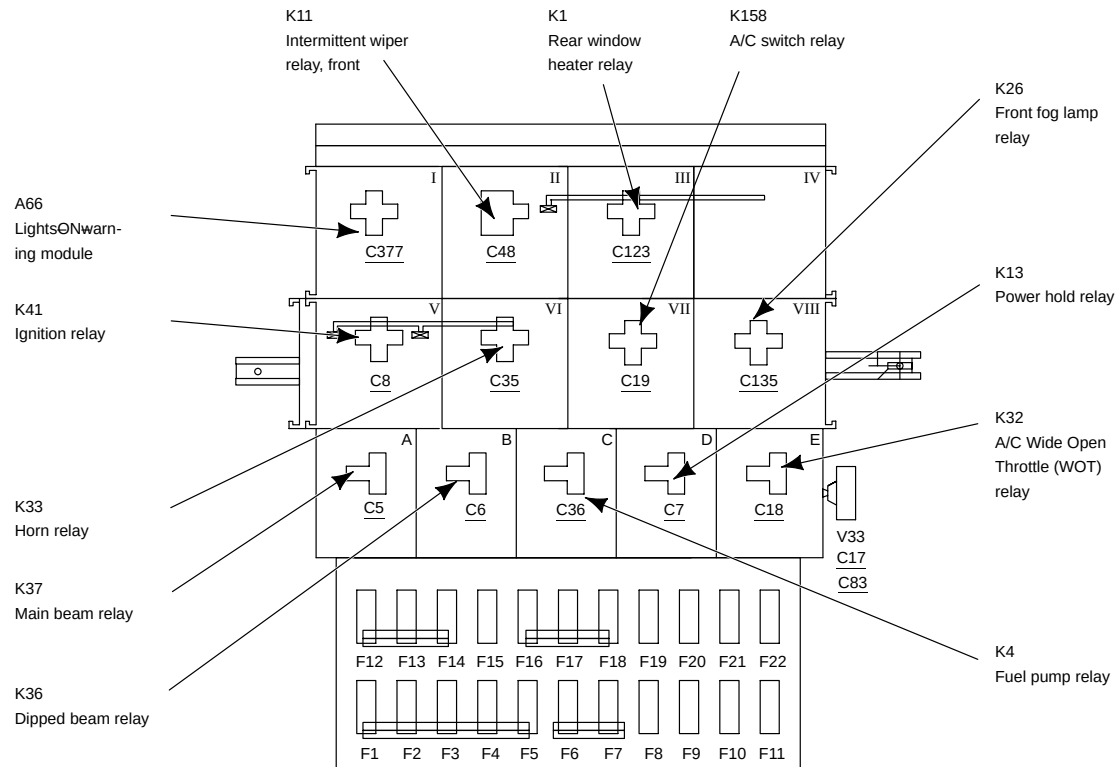
Fuse and Relay Information	700-01-00-1/4
Power Distribution	700-02-00-2/3
Fuse Details	700-03-00-3/5, 8, 12, 17
Ground Distribution	700-04-00-3, 13/15
Component Location Charts	700-05-00-1, 6, 9/11, 14/16
Component Location Views	700-06-00-1, 10, 11, 16
Connector Views	700-07-00-2, 4/6, 9, 11, 14, 18, 22, 28/29

<u>FUSE AND RELAY INFORMATION:</u>	700-01-00-1
Battery Junction Box (BJB)	700-01-00-2
Central Junction Box (CJB).....	700-01-00-3/4

Fuse and Relay Information

700-01-00

-1



Fuse and Relay Information

700-01-00

Central Junction Box (CJB)

-4

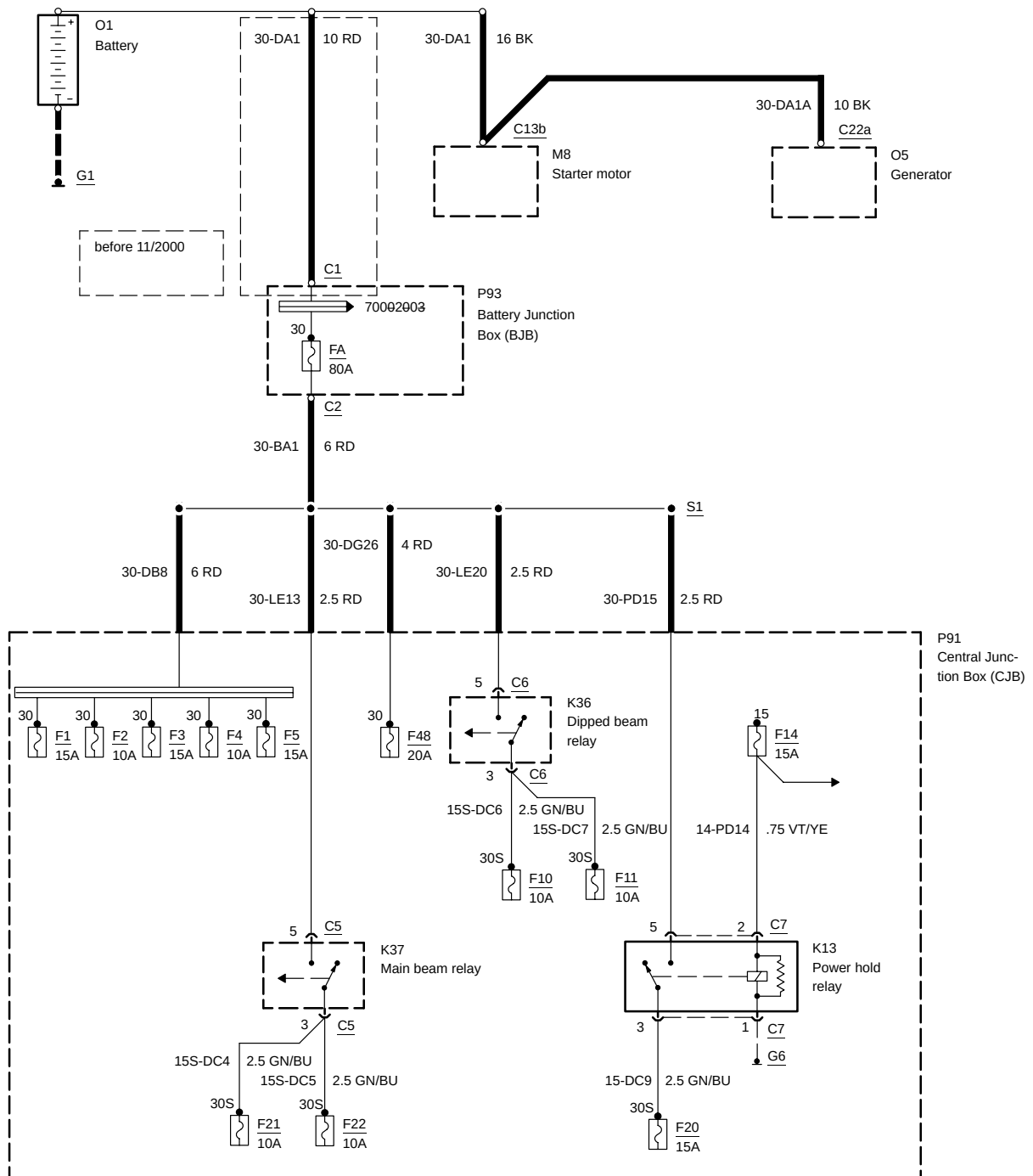
Fuse number												
12	13	14	15	16	17	18	19	20	21	22	48	
20A	15A	15A	5A	30A	15A	30A	15A	15A	10A	10A	20A	
		●						●				
		●						●				
		●						●				
		●										
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	●	●						●				
	●	●		●				●				
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	●		●								●	
●												
12	13	14	15	16	17	18	19	20	21	22	48	
20A	15A	15A	5A	30A	15A	30A	15A	15A	10A	10A	20A	

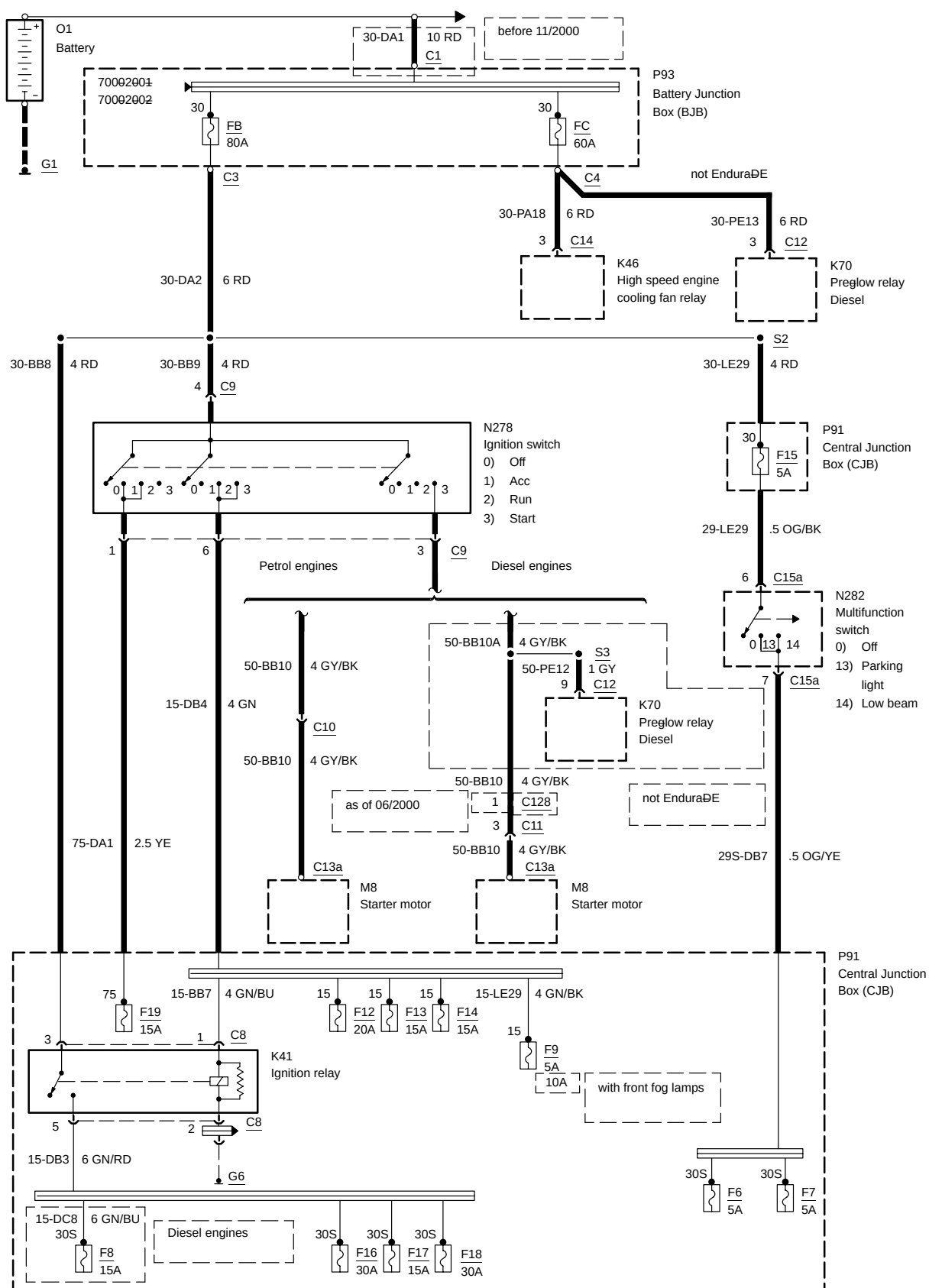
Power Distribution

700-02-00

-2

Diesel engines





Fuse Details:

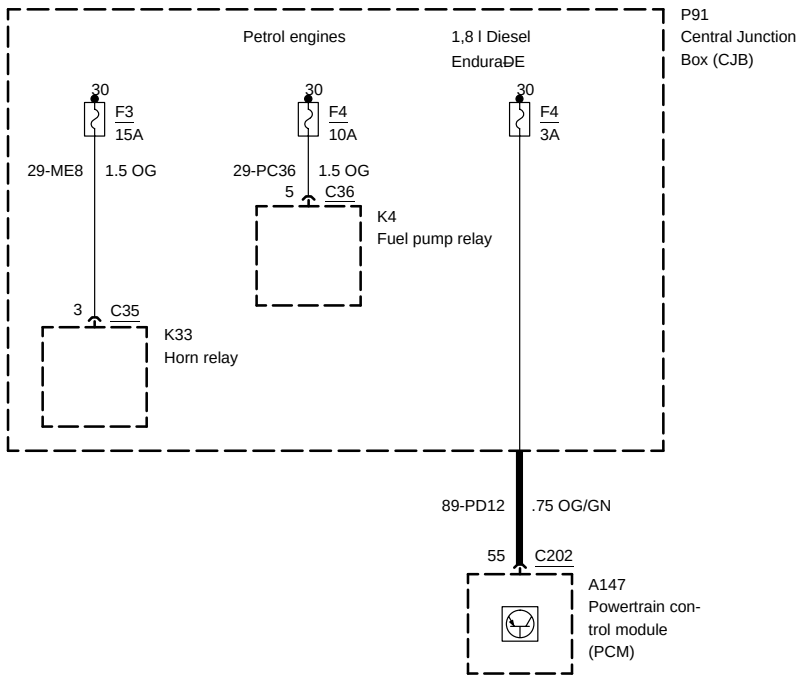
F3, F4	700-03-00-3
F5, F6	700-03-00-4
F7, F8, F9	700-03-00-5
F13, F14, 1,8 I Diesel, 1,8 I Diesel Endura-DE	700-03-00-8
F19, F20, 1,8 I Diesel Endura-DE	700-03-00-12
FB, FC	700-03-00-17

Fuse Details

700-03-00

-3

F3, F4

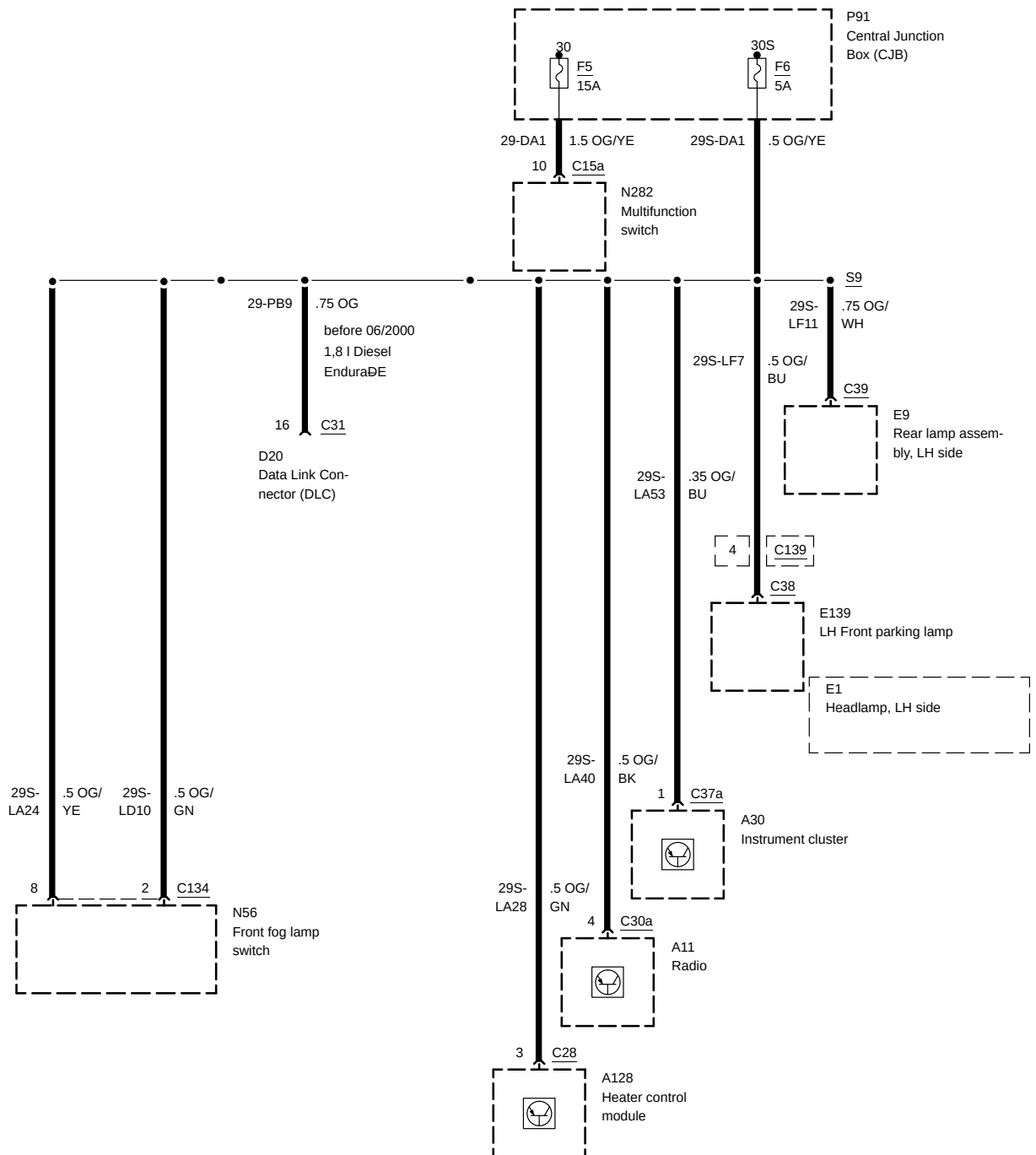


Fuse Details

700-03-00

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F5, F6

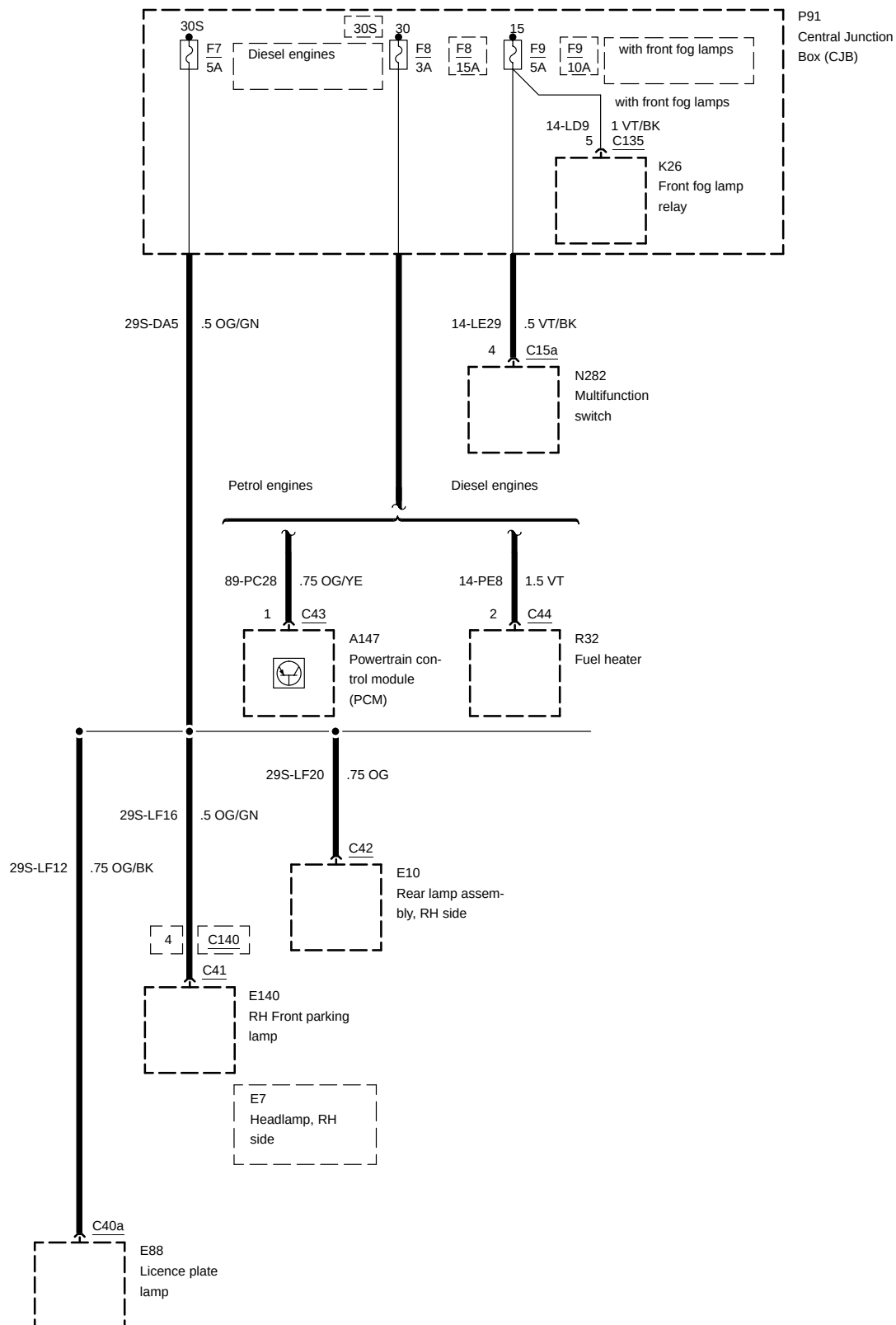


Fuse Details

700-03-00

F7, F8, F9

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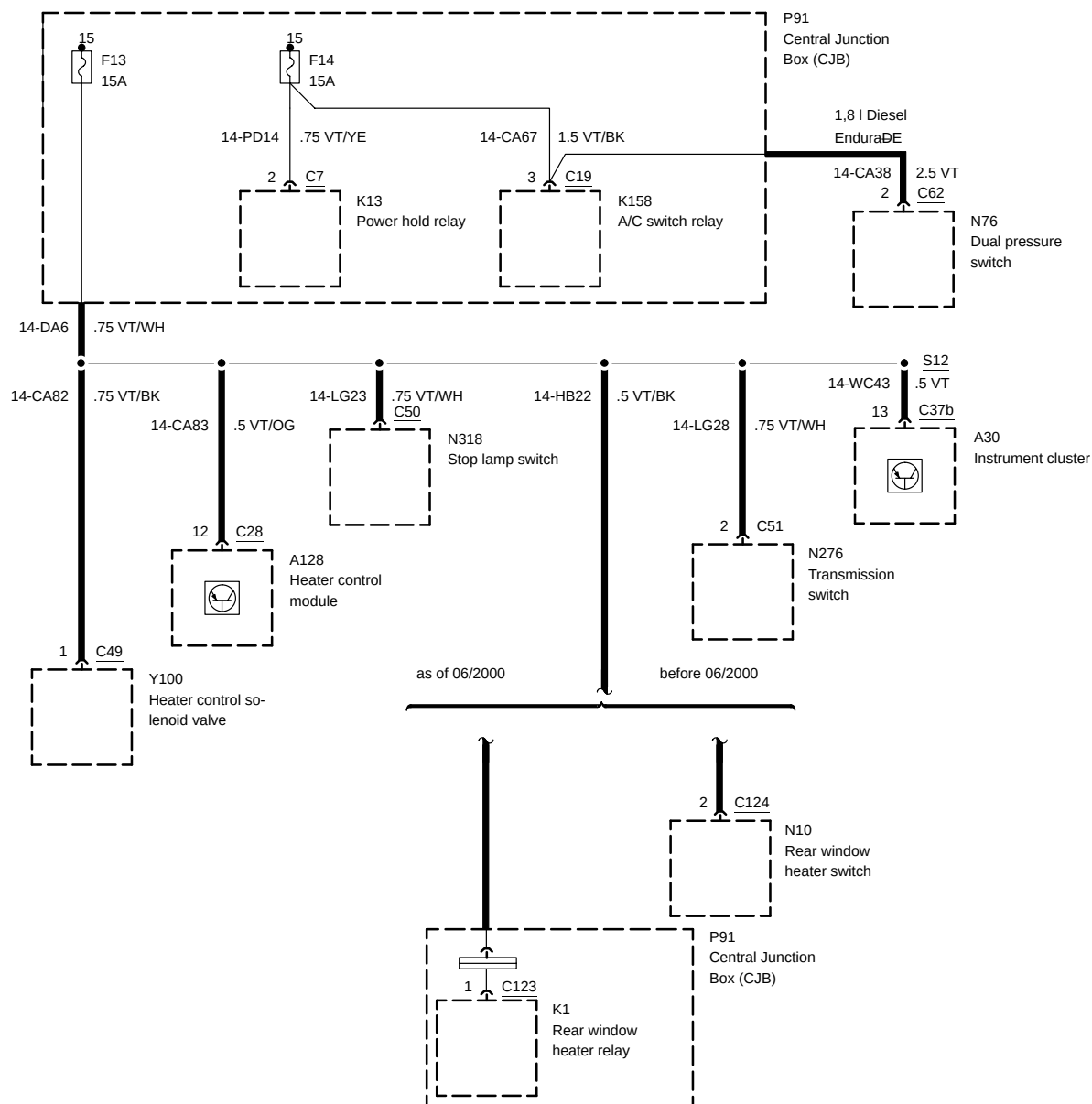


Fuse Details

700-03-00

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F13, F14, 1,8 I Diesel, 1,8 I Diesel Endura-DE

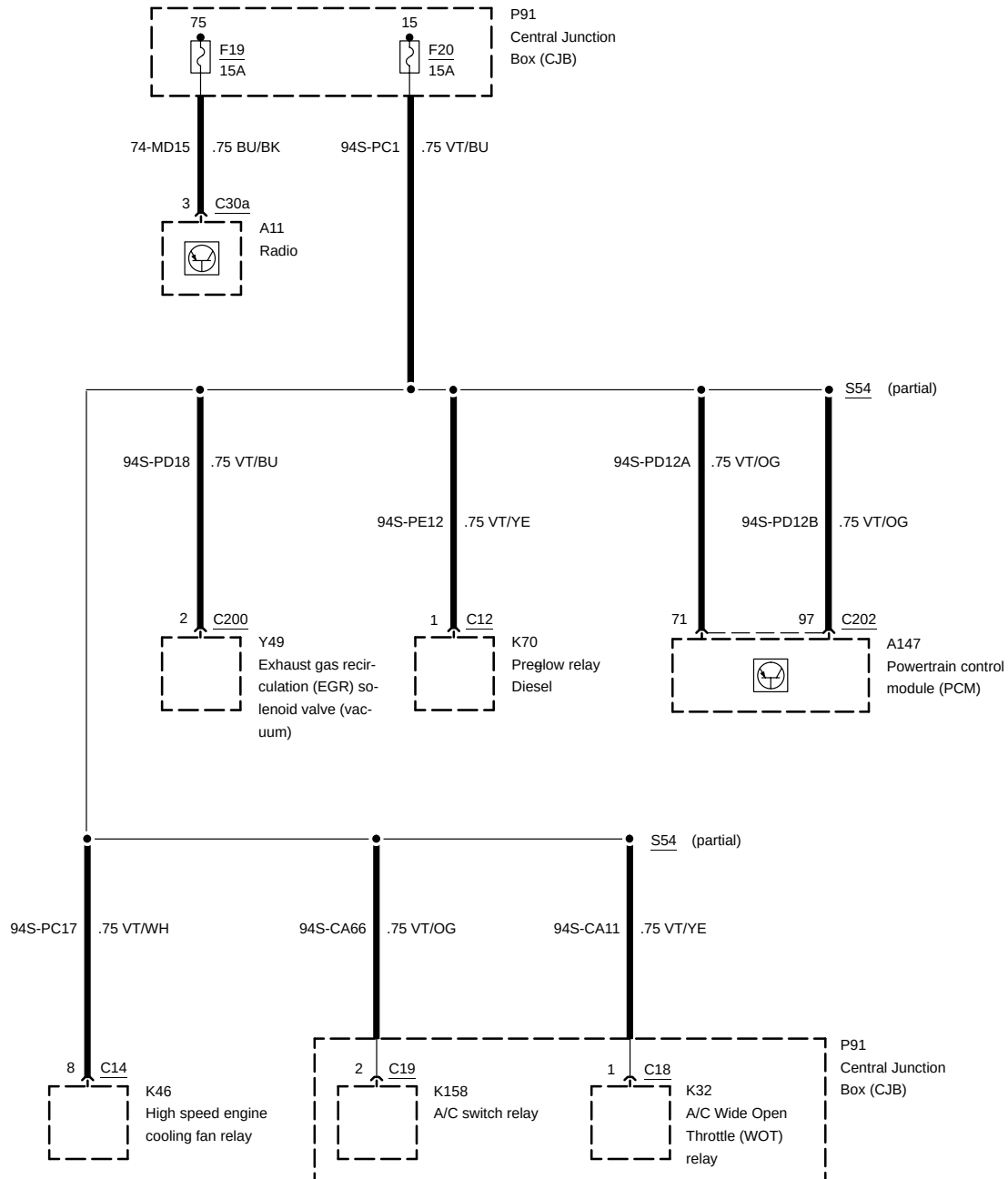


Fuse Details

700-03-00

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F19, F20, 1,8 | Diesel Endura-DE

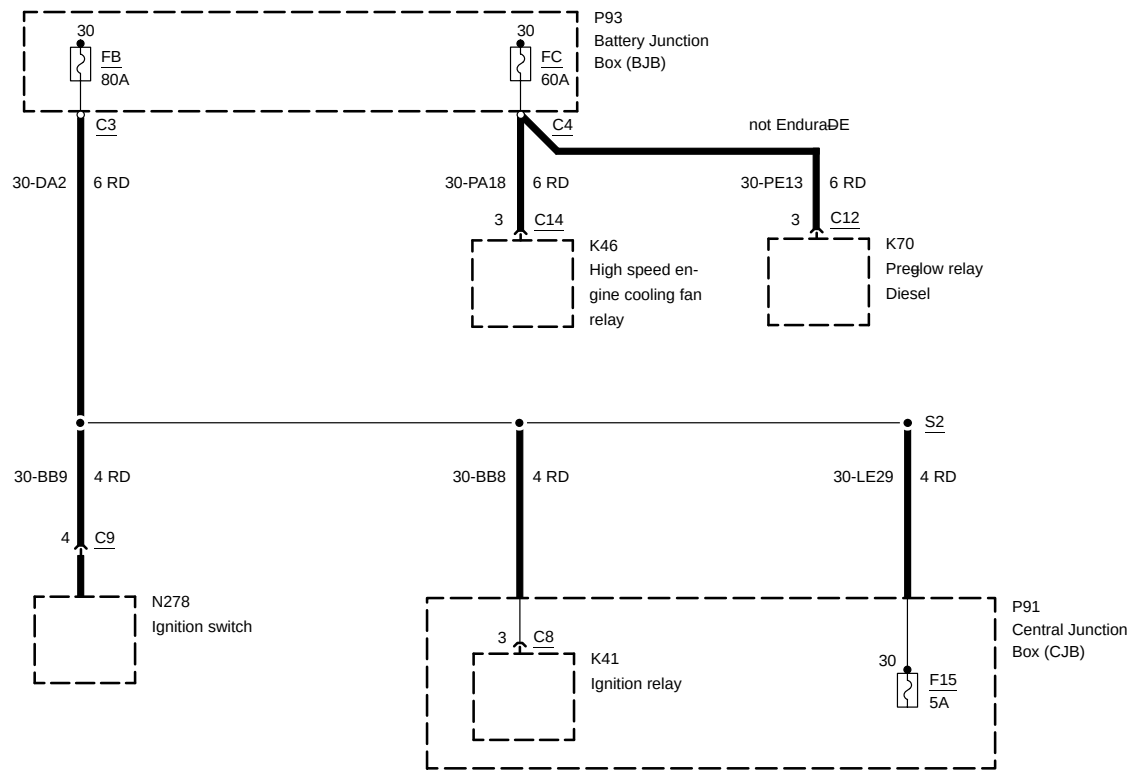


Fuse Details

700-03-00

FB, FC

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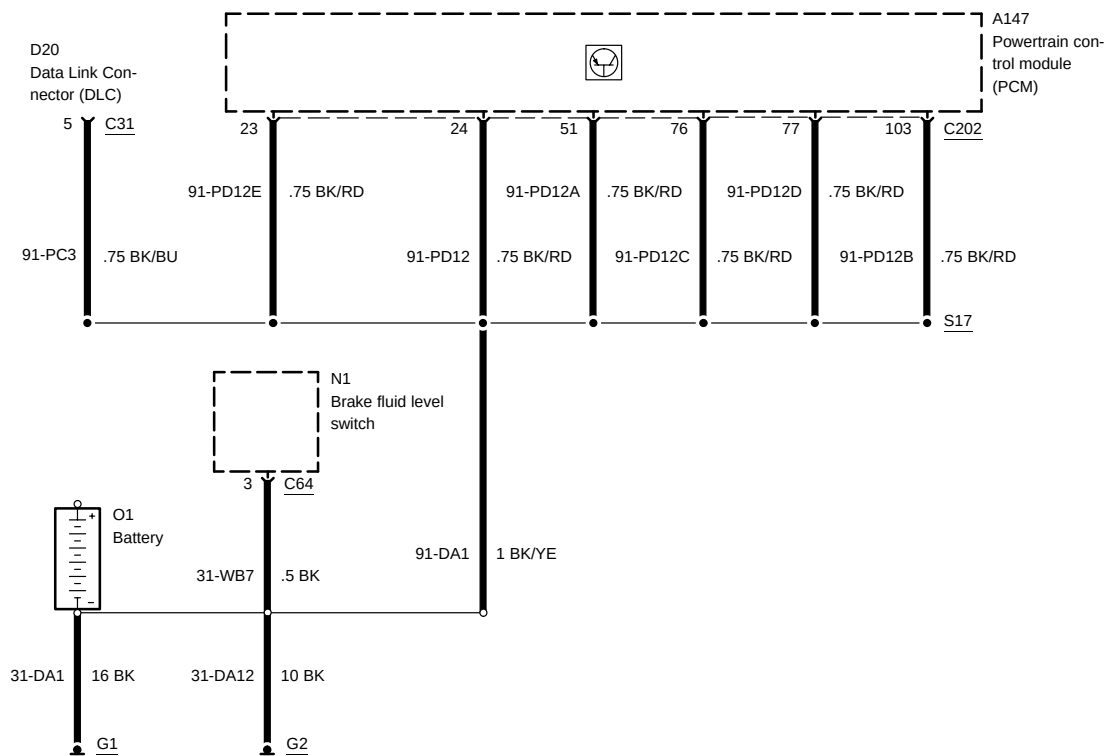


Ground Distribution

700-04-00

G1, G2, 1,8 I Diesel Endura-DE

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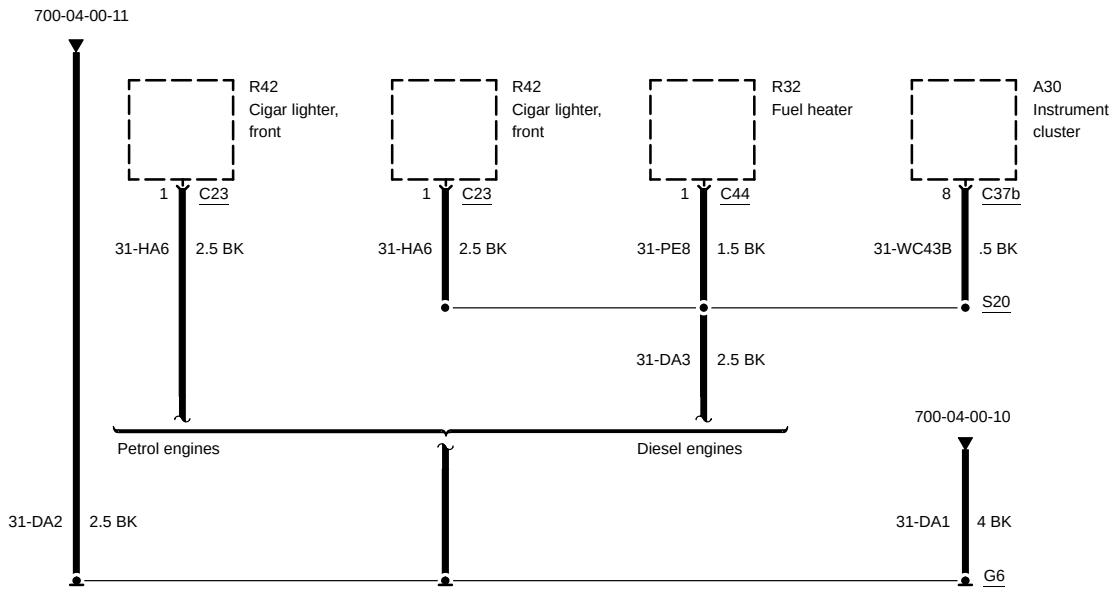


Ground Distribution

700-04-00

G6

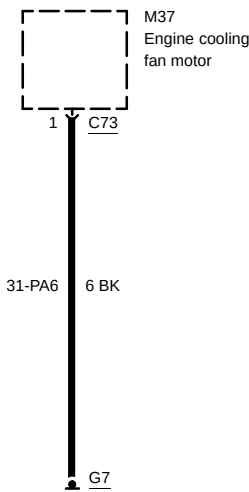
-13



'02 BANTAM E.W.D DIESEL

G7

-14

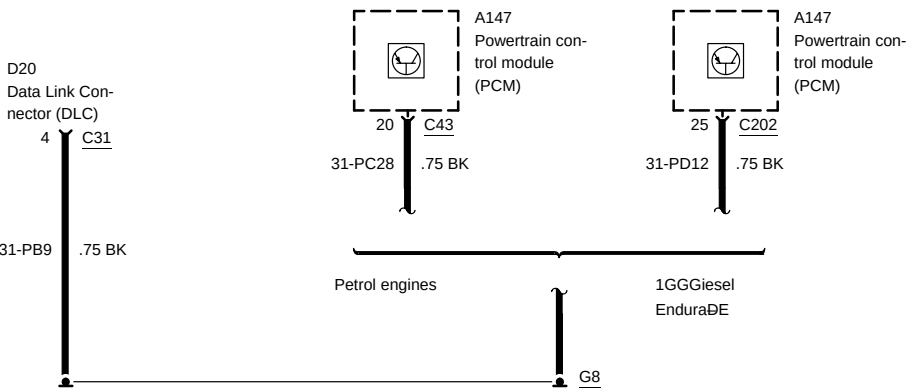


Ground Distribution

700-04-00

G8

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LOCATION CHARTS:

Index: Quick Reference Guide

Components

A	P
B	R
D	V
M	Y
N	
C. Connectors	
G. Ground Points	
S. Splices	

Component Location Charts

700-05-00

Components		Section 700-06-00	-1
Location		Page/coordinates	
A30	Instrument cluster dash panel, RH side	23 -C	5
A74	Diesel pump unit engine compartment, front, centre		
A147	Powertrain control module (PCM) LH Apillar	16 -E	2
B6	Coolant temperature sensor engine G1 Diesel EnduraDE	10 -A	3
B10	Engine Coolant Temperature (ECT) sensor engine, front, 1,8 l Diesel EnduraDE	10 -B	4
B10	Engine Coolant Temperature (ECT) sensor engine, front, 1,8 l Diesel EnduraDE	11 -B	5
B43	Crankshaft position sensor engine, 1,8 l Diesel EnduraDE	11 -E	1
B49	EGR valve position sensor engine compartment, LH side, 1,8 l Diesel EnduraDE	10 -C	1
B49	EGR valve position sensor engine compartment, LH side, 1,8 l Diesel EnduraDE	11 -A	3
D20	Data Link Connector (DLC) LH Apillar	16 -D	1
M8	Starter motor engine, 1,8 l Diesel EnduraDE		
N1	Brake fluid level switch engine compartment, rear, LH side, 1,8 l Diesel Endura-		
N17	Oil pressure switch engine, 1,8 l Diesel EnduraDE	10 -E	4
N17	Oil pressure switch engine, 1,8 l Diesel EnduraDE	11 -B	4

Component Location Charts

700-05-00

Components		Section 700-06-00	-6
Location		Page/coordinates	
R32	Fuel heater engine, 1,8 l Diesel EnduraDE	3	D 2
P93	Battery Junction Box (BJB) engine compartment, rear, LH side	1	D 5
R32	Fuel heater engine, 1,8 l Diesel EnduraDE	3	D 2
R32	Fuel heater engine, 1,8 l Diesel	4	E 5
V33	Diode on Central Junction Box (CJB)	26	C 2
Y16	A/C Compressor clutch engine, 1,8 l Diesel EnduraDE		
Y49	Exhaust gas recirculation (EGR) solenoid valve (vacuum) engine compartment, LH side, 1,8 l Diesel EnduraDE	10	E 5

Component Location Charts

700-05-00

Connectors

Section 7000690

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Location	Page/coordinates
C1 engine compartment, rear, LH side	1 – D 5
C2 engine compartment, rear, LH side	1 – D 5
C3 engine compartment, rear, LH side	1 – D 5
C4 engine compartment, rear, LH side	1 – D 5
C5 in Central Junction Box (CJB)	26 – A 1
C6 in Central Junction Box (CJB)	26 – B 2
C7 in Central Junction Box (CJB)	26 – C 2
C8 in Central Junction Box (CJB)	26 – A3
C11 engine compartment, front, LH side	3 – A 2
C12 engine compartment, rear, LH side	1 – B 4
C13a on starter, 1,8 l Diesel Endura–DE.....	4 – C 1
C13b on starter, 1,8 l Diesel Endura–DE	
C14 engine compartment, front	3 – C 5
C16 RH B-pillar	13 – C 4
C16 RH B-pillar	22 – A 2
C17 on Central Junction Box (CJB)	26 – C 2
C18 in Central Junction Box (CJB)	26 – C 1
C19 in Central Junction Box (CJB)	26 – C 4
C22a generator, 1,8 l Diesel Endura–DE	
C22b generator, 1,8 l Diesel Endura–DE	
C23 behind dash panel, centre	23 – D 2
C24 RH A-pillar	14 – B 1
C24 RH A-pillar	21 – A 2
C25 LH A-pillar, 1,8 l Diesel	15 – D 2
C25 LH A-pillar, petrol engines, 1,8 l Diesel Endura–DE	16 – E 4
C25 LH A-pillar	21 – A 2
C28 behind dash panel, centre	23 – E 5
C30a behind dash panel, centre	23 – D 5
C30b behind dash panel, centre	23 – D 5
C31 LH A-pillar	16 – D 1

Component Location Charts

700-05-00

Connectors

Section 7000600

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Location	Page/coordinates
C35 in Central Junction Box (CJB)	26 – A 4
C36 in Central Junction Box (CJB)	26 – B 1
C37a behind dash panel, RH side	23 – C 5
C37b engine compartment, front, LH side	23 – C 5
C38 engine, 1,8 l Diesel Endura–DE	1 – E 3
C41 engine compartment, front, RH side	2 – A 2
C44 behind dash panel, RH side	10 –D 1
C44 engine, 1,8 l Diesel Endura–DE	11 – A 4
C45 engine compartment, front, LH side	1 – E 3
C46 engine compartment, front, RH side	2 – A 2
C47 on engine bulkhead	12 – D 2
C48 in Central Junction Box (CJB)	26 – B 5
C49 on engine bulkhead	12 – D 4
C52 behind dash panel, centre	
C51 transmission, 1,8 l Diesel Endura–DE	
C53 behind dash panel, centre	
C54 behind dash panel, centre	
C62	2 – D 1
C64 engine compartment, rear, LH side	1 – D 4
C64 engine compartment, rear, LH side	1 – D 4
C64 engine compartment, rear, LH side, 1,8 l Diesel Endura–DE	10 – F 4
C72 behind dash panel, centre	
C73 engine compartment, front	3 – A 4
C78 engine compartment, front, LH side	1 – E 4
C79 engine compartment, front, RH side	2 – A 3
C80a engine compartment, front, LH side	1 – C 1
C80b engine compartment, front, LH side	1 – C 1
C81a engine compartment, front, LH side	1 – B 1
C81b engine compartment, front, LH side	1 – B 1
C82 engine compartment, front	
C85 engine, 1,8 l Diesel Endura–DE on Central Junction Box (CJB)	10 – B 2

Component Location Charts

700-05-00

Connectors

Section 7000600

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Location

Page/coordinates

C91 on engine bulkhead	12 – E 1
C93 engine, LH side, 1,8 l Diesel Endura–DE	10 – E 4
C93 engine, LH side, 1,8 l Diesel Endura–DE	11 – B 4
C94 engine, 1,8 l Diesel Endura–DE	10 – A 3
C97 LH A–pillar, 1,8 l Diesel Endura–DE	16 – E 4
C101 RH A–pillar	13 – B 4
C103 LH A–pillar, 1,8 l Diesel	15 – B4
C124 dash panel, centre	
C127 engine, rear	
C128 engine compartment, front, LH side	
C130 engine compartment, front, LH side	
C131 engine compartment, front, LH side	
C134 behind dash panel, centre	
C135 in Central Junction Box (CJB)	26 – C 3
C136 engine compartment, LH side, front	
C137 engine compartment, RH side, front	
C139 engine compartment, LH side, front	
C140 engine compartment, RH side, front	
C143 LH A–pillar	15 – B 3
C143 LH A–pillar	16 – B 3
C151 engine, front, 1,8 l Diesel Endura–DE	10 – B 4
C151 engine, front, 1,8 l Diesel Endura–DE	11 – B 5
C200 engine, LH side, top, 1,8 l Diesel Endura–DE	10 – E 5
C202 LH A–pillar, 1,8 l Diesel Endura–DE	16 – E 2
C206 engine compartment, front, LH side, 1,8 l Diesel Endura–DE	10 – C 1
C206 engine compartment, front, LH side, 1,8 l Diesel Endura–DE	11 – A 3
C207 engine compartment, front, centre	
C313 engine, LH side, rear, 1,8 l Diesel Endura–DE	11 – E 1
C377 in Central Junction Box (CJB)	26 – A 4

Component Location Charts

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Ground points

Section 7009690

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Location

Page/coordinates

G1	engine, 1,8 l Diesel Endura-DE	
G2	engine compartment, LH side	1 - B 2
G2	engine compartment, LH side, 1,8 l Diesel Endura-DE	10 - F 3
G5	RH A-pillar	14 - D 1
G6	RH A-pillar	14 - C 1
G7	engine compartment, front, LH side	1 - E 1
G8	LH A-pillar, 1,8 l Diesel Endura-DE	16 - C 1
G8	LH A-pillar, Petrol engines, 1,8 l Diesel Endura-DE	16 - C 1
G9	engine compartment, front, RH side	2 - A 1

Component Location Charts

700-05-00

Splices

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Location

S1	behind dash panel, RH side
S2	behind dash panel, RH side
S3	LH A-pillar
S4	behind dash panel, RH side
S5	behind dash panel, centre
S6	behind dash panel, RH side
S7	behind dash panel, centre
S8	in roof panel, rear
S9	behind dash panel, centre
S10	RH A-pillar
S11	behind dash panel, RH side
S12	behind dash panel, centre
S13	behind dash panel, centre
S14	behind dash panel, RH side
S15	LH A-pillar
S16	engine
S17	LH A-pillar
S20	behind dash panel, RH side
S21	RH A-pillar
S22	in roof panel, rear
S23	in driver's door
S24	engine compartment, front, RH side
S25	engine compartment, front
S26	engine
S27	LH A-pillar
S28	LH A-pillar
S29	engine compartment, front, LH side
S30	LH A-pillar
S31	LH A-pillar
S32	behind dash panel, centre
S33	behind dash panel, centre
S34	engine compartment, front, RH side
S35	behind dash panel, RH side
S36	RH A-pillar
S38	behind dash panel, RH side
S39	in driver's door
S40	in driver's door
S41	in driver's door
S42	in driver's door
S43	behind dash panel, RH side
S44	behind dash panel, RH side
S45	RH A-pillar
S46	RH A-pillar

Component Location Charts

700-05-00

Splices**-16****Location**

S47	behind dash panel, RH side
S48	behind dash panel, RH side
S49	behind dash panel, centre
S50	engine compartment, front, LH side
S51	LH A-pillar
S53	LH A-pillar
S54	behind dash panel, RH side
S55	in passenger's door

COMPONENT LOCATION VIEWS:

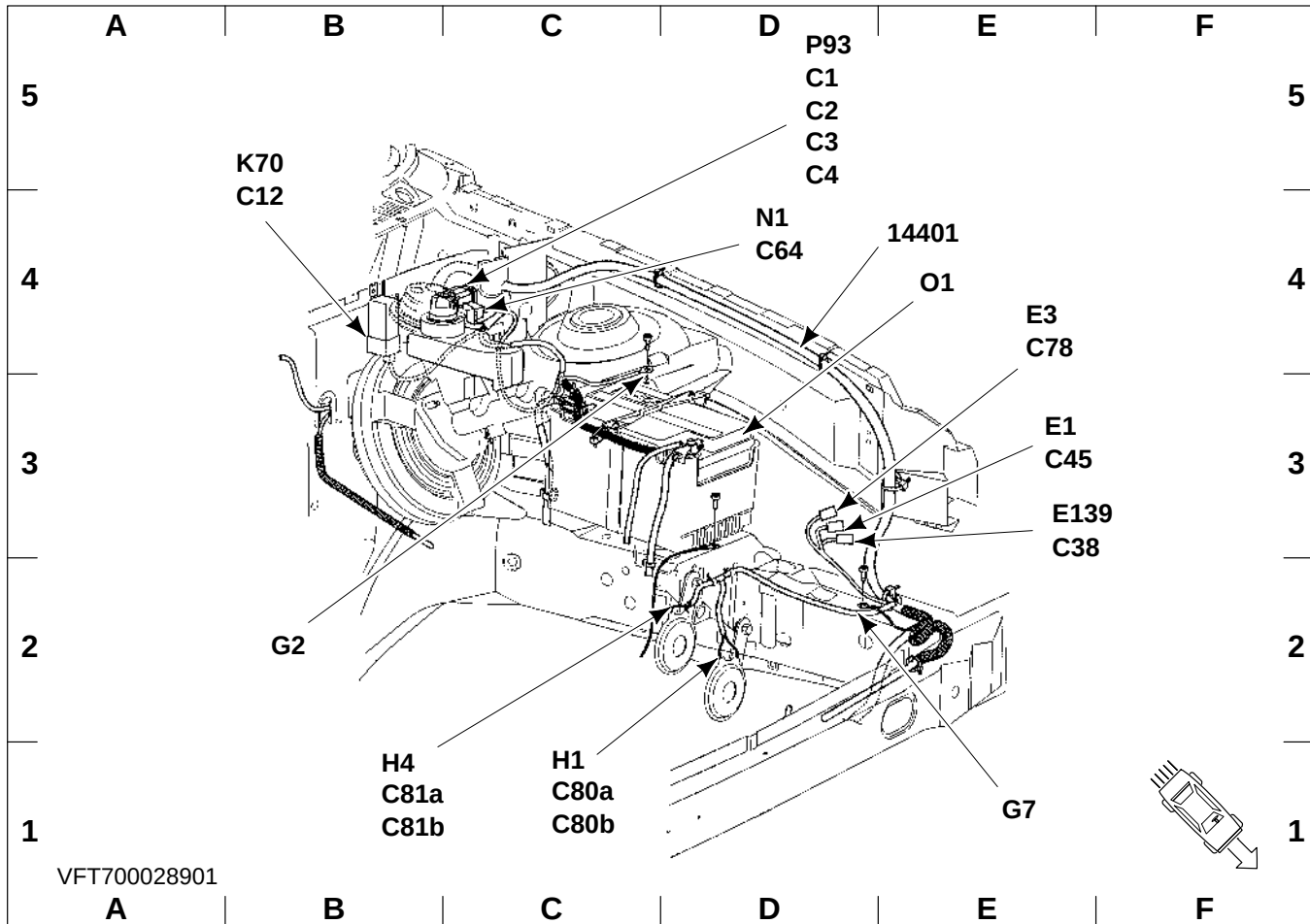
Engine compartment, LH side.....	700-06-00-1
On engine, front – 1,8 l Diesel Endura–DE	700-06-00-10
On engine, rear – 1,8 l Diesel Endura–DE	700-06-00-11
LH A-pillar, petrol engines, 1,8 l Diesel Endura–DE...	700-06-00-16

Component Location Views

700-06-00

Engine compartment, LH side

-1



Engine compartment, LH side

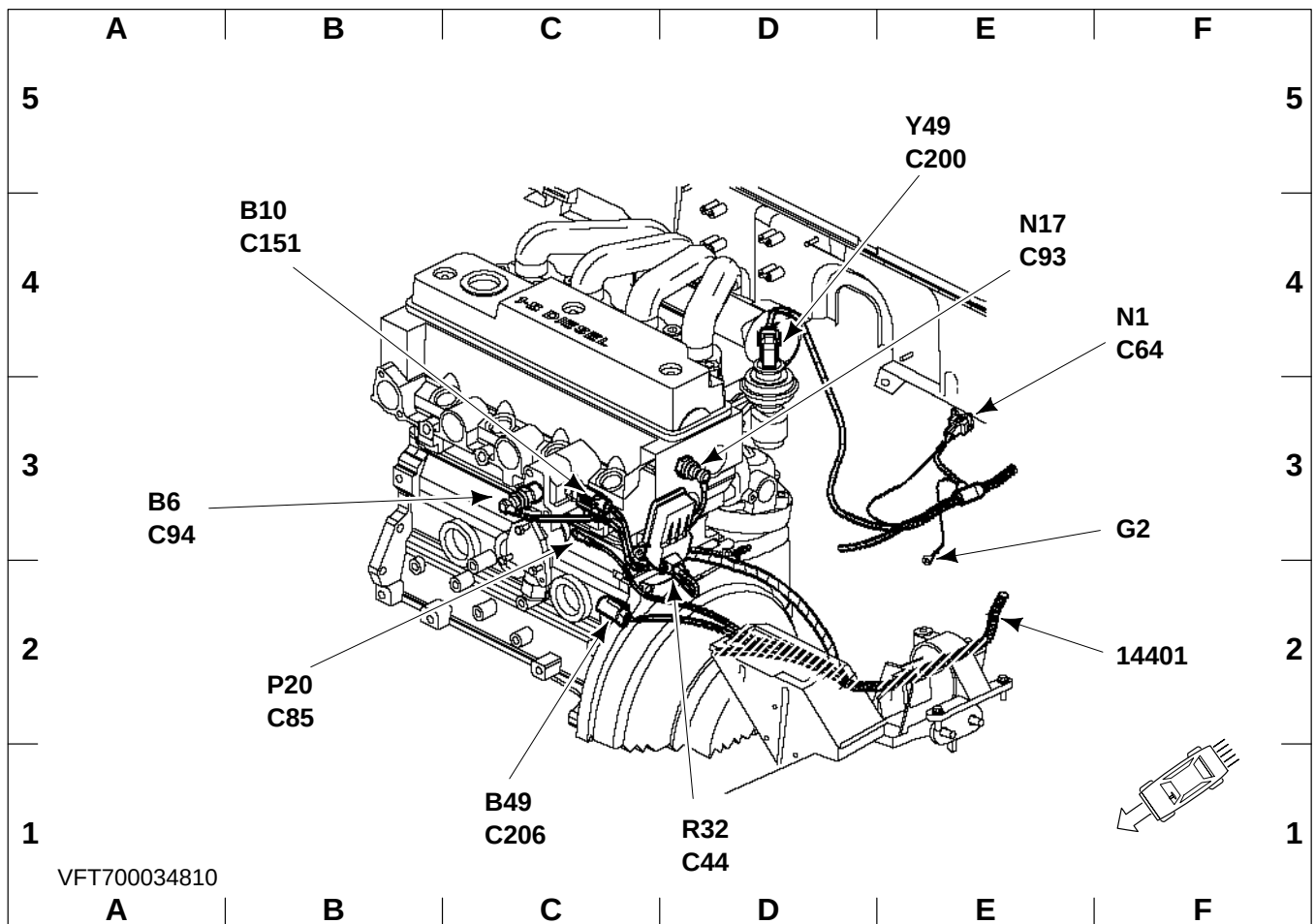
14401	Main wiring harness	E 4	C81b		B 1
C1		D 5	E1	Headlamp, LH side	E 3
C2		D 5	E3	Direction indicator lamp, LH side front	E 4
C3		D 5	E139	LH Front parking lamp	E 3
C4		D 5	G2		B 2
C12		B 4	G7		E 1
C38		E 3	H1	Horn	C 1
C45		E 3	H4	Second horn	B 1
C64		D 4	K70	Preglow relay Diesel	B 5
C78		E 4	N1	Brake fluid level switch	D 4
C80a		C 1	O1	Battery	E 4
C80b		C 1	P93	Battery Junction Box (BJB)	D 5
C81a		B 1			

Component Location Views

700-06-00

On engine, front -1,8 l Diesel EnduraDE

-10



On engine, front – 1,8 l Diesel Endura–DE

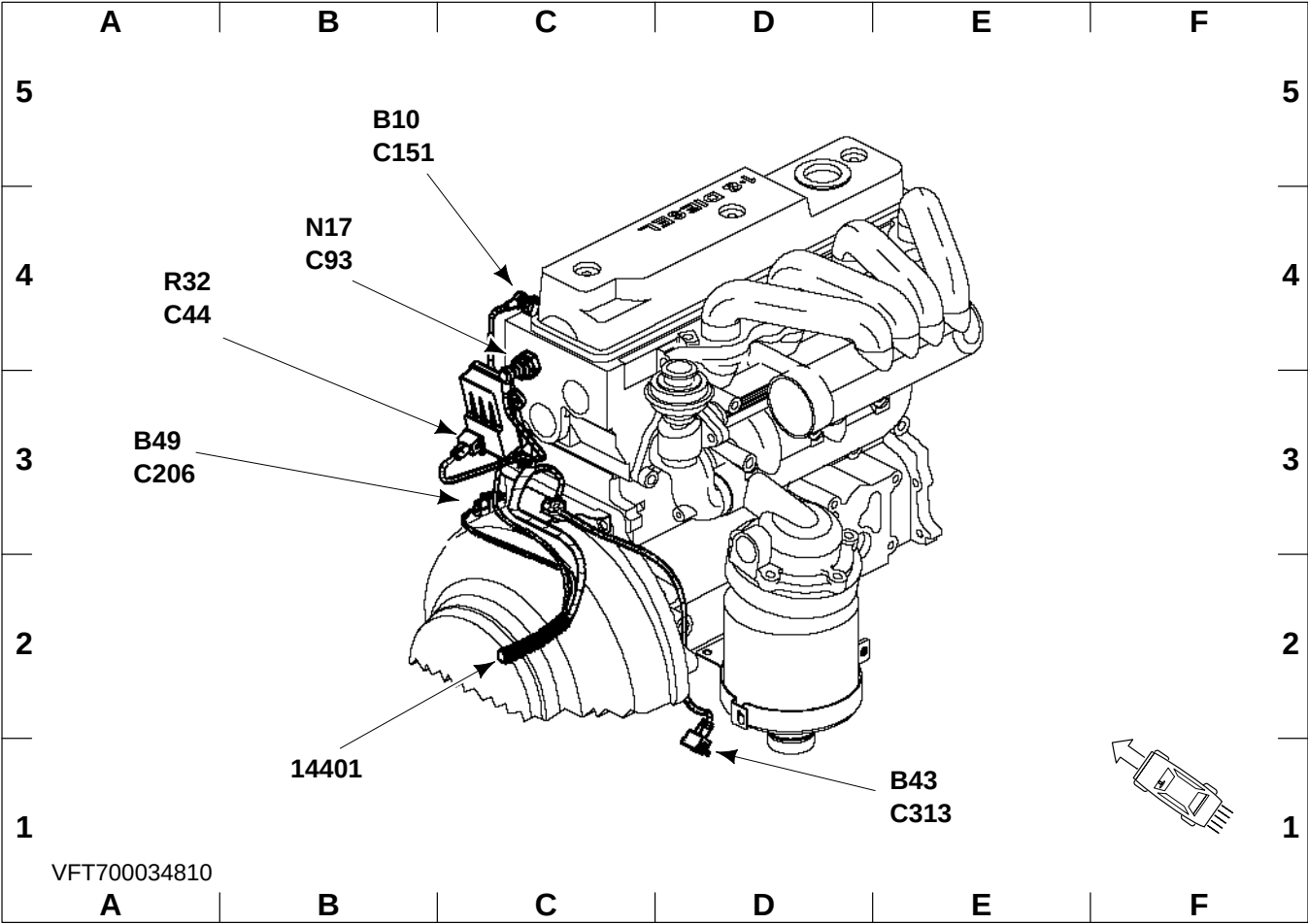
14401	Main wiring harness	F 2	C151		B 4
B6	Coolant temperature sensor	A 3	C200		E 5
B10	Engine Coolant Temperature (ECT) sensor	B 4	C206		C 1
B49	EGR valve position sensor	C 1	G2		F 3
C44		D 1	N1	Brake fluid level switch	F 4
C64		F 4	N17	Oil pressure switch	E 4
C85		B 2	P20	Glow plugs	B 2
C93		E 4	R32	Fuel heater	D 1
C94		A 3	Y49	Exhaust gas recirculation (EGR) solenoid valve (vacuum)	E 5

Component Location Views

700-06-00

On engine, rear -1,8 l Diesel Endura DE

-11



On engine, rear – 1,8 l Diesel Endura–DE

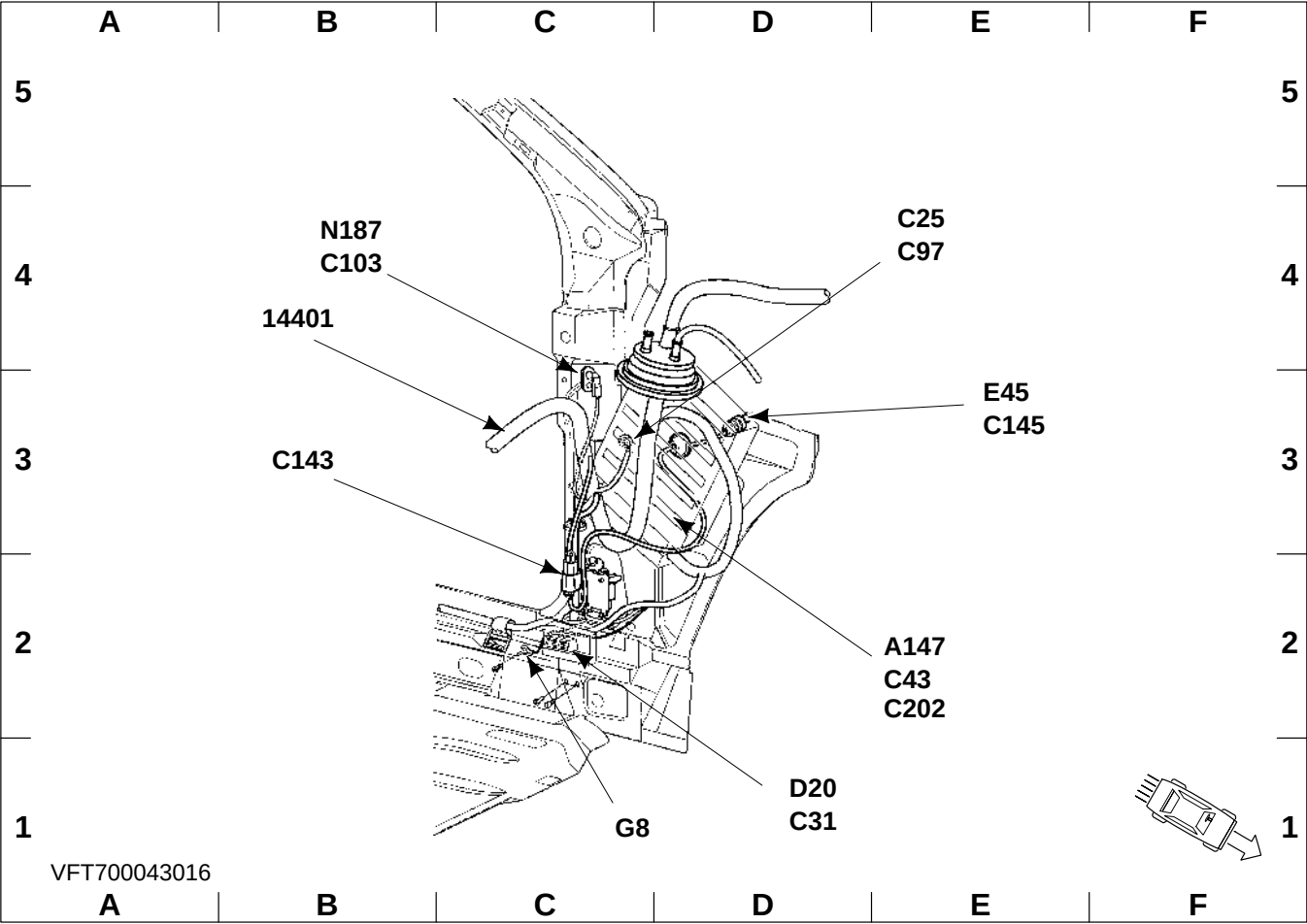
14401	Main wiring harness	B 1	C93	B 4	
B10 ..	Engine Coolant Temperature (ECT)		C151	B 5	
	sensor	B 5	C206	A 3	
B43 ..	Crankshaft position sensor	E 1	C313	E 1	
B49 ..	EGR valve position sensor	A 3	N17 ..	Oil pressure switch	B 4
C44 ..		A 4	R32 ..	Fuel heater	A 4

Component Location Views

700-06-00

LH Apillar, petrol engines, 1,8 l Diesel Endura DE

-16

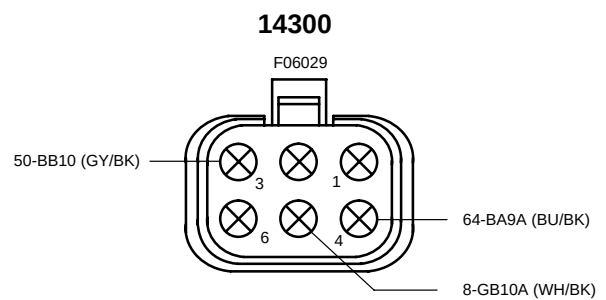
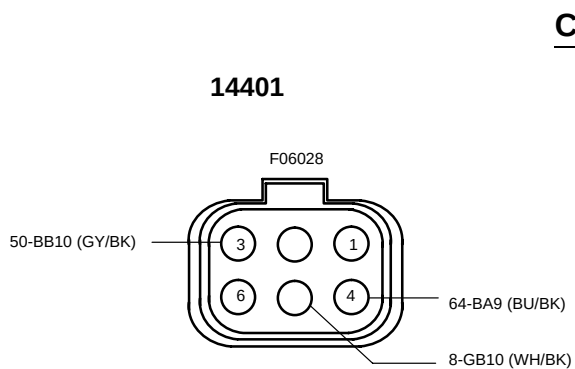
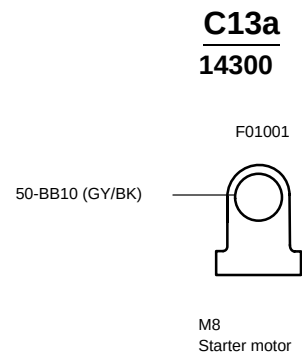
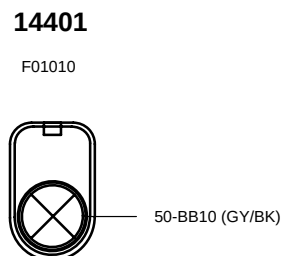
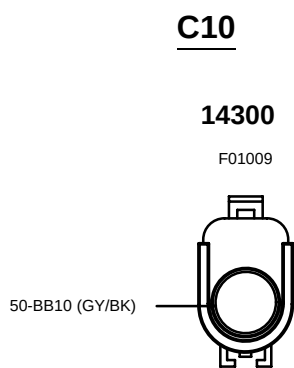
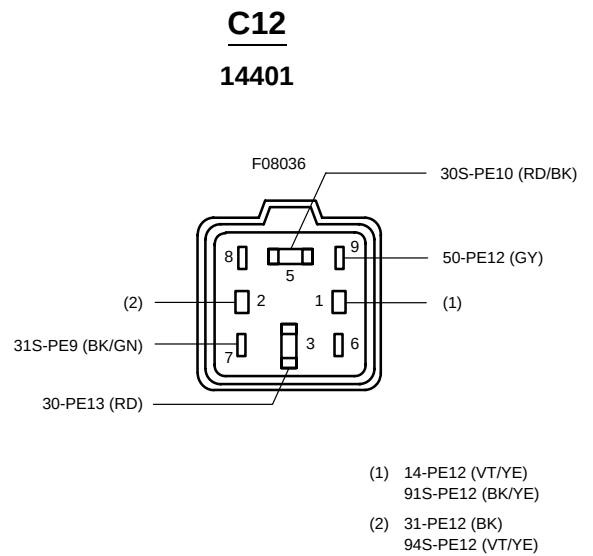
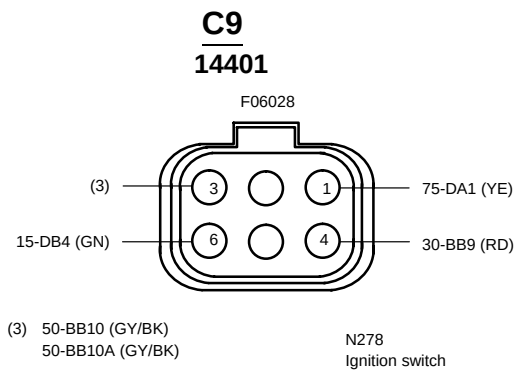


LH A-pillar, petrol engines, 1,8 l Diesel Endura-DE

14401	Main wiring harness	B 4	C143		B 3
A147	Powertrain control module (PCM)	E 2	C145		E 3
C25		E 4	C202		E 2
C31		D 1	D20	Data Link Connector (DLC)	D 1
C43		E 2	E45	Side direction indicator lamp, LH side	E 3
C97		E 4	G8		C 1
C103		B 4	N187	Door entry switch, passenger side	B 4

CONNECTOR VIEWS:

C9 C10 C11 C12 C13a C16 C17 C18 C22a C13b C20 C22b
C24 C25 C31 C36 C37a C37b C43 C44 C83 C? C84 C85 C93
C94 C128 C111 C151 C200 C202 C206 C207 C313



C16 14A584 F06008 (2) 33-AJ32 (YE/BU) 32-AJ32 (WH/BU) 14S-AJ32 (VT) (4) (5) (2) 31-AA49 (BK) (4) 32-AA16 (WH/BK) (5) 33-AA15 (YE/GN) 31-AA55 (BK) 32-AA26 (WH/BU) 33-AA25 (YE/RD) 14401 F06007 31-DA5 (BK) 33-AJ24 (YE) 32-AJ24 (WH) 14S-AJ20A (VT) 32-AA16 (WH/BK) 33-AA15 (YE/GN)	C18 14401 F04018 31S-CA11 (BK/YE) (2) 14-CA11 (VT/YE) 94S-CA11 (VT/YE) (3) 14-CA12 (VT/BU) 14S-CA12 (VT/BU) (5) 14S-CA38 (VT) 14S-CA6 (VT/YE) K32 A/C Wide Open Throttle (WOT) relay
C17 14401 F03122 14-PD14 (VT/YE) 14-DC1 (VT/BU) V33 Diode	C13b all vehicles 14300 F01001 (1) 30-DA1 (BK) + 30-DA1A (BK) 30-DA1 (BK) 30-DA1 (BK) + 30-BA6 (BK)
C22a (RD) 14300/10K337 F01002 (1) 30-DA1A (BK) 30-BA6 (BK) O5 Generator	1,3 I HCS 10K337 F01002 30-BA6 (BK) M8 Starter motor

Connector Views

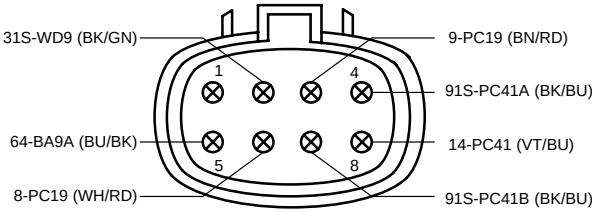
700-07-00

-5

C20

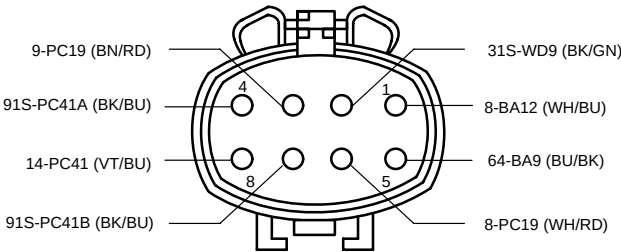
14300

F08027



14401

F08040

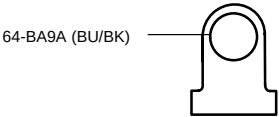


C22b

1,3 I HCS

10K337

F01002

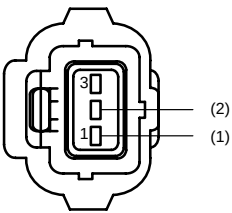


O5
Generator

1,6 I ROCAM, Diesel engines

14300

F03093



O5
Generator

(1) 64-BA9 (BU/BK)
64-BA9A (BU/BK)
(2) 8-GB10A (WH/BK)
8-BA12 (WH/BU)

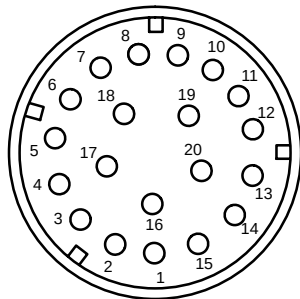
Connector Views

700-07-00

-6

C24**14A584**

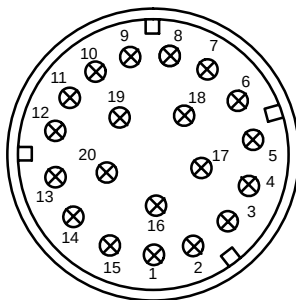
F20003



- | | |
|----------------------|----------------------|
| (1) 32-AJ14A (WH/BU) | (9) 14-AJ7 (VT/BU) |
| 32-MD28 (WH) | (10) 33-AJ24A (YE) |
| (2) 31-DA1 (BK) | 33-MD28 (YE) |
| 31-AA48 (BK) | (11) 32-AJ18 (WH/VT) |
| (3) 32-AJ14B (WH/BU) | (12) 33-AJ24B (YE) |
| (4) 33-AJ14A (YE/BU) | (13) 32-AA11 (WH/VT) |
| 29-AA48 (OG/BU) | (14) 14S-AJ20 (VT) |
| (5) 33-AJ18 (YE/VT) | (15) 33-AA10 (YE/BK) |
| (6) 33-AJ14B (YE/BU) | (16) 29-AA47 (OG/BK) |
| 32-AA21 (WH/GN) | (17) 32-MD28 (WH) |
| (7) 32-AJ24A (WH) | (18) 33-MD28 (YE) |
| 33-AA20 (YE/BU) | |
| (8) 32-AJ24B (WH) | |

14401

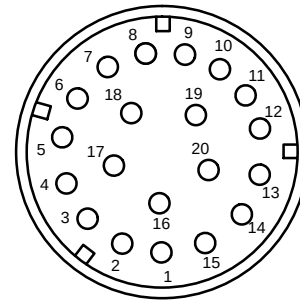
F20002



- | | |
|----------------------|----------------------|
| (1) 32-AJ14A (WH/BU) | (9) 14-AJ7 (VT/BU) |
| 32-MD17 (WH/RD) | (10) 33-AJ24A (YE) |
| (2) 31-DA7 (BK) | 33-MD17 (YE/RD) |
| (3) 32-AJ14B (WH/BU) | (11) 32-AJ18 (WH/VT) |
| (4) 33-AJ14A (YE/BU) | (12) 33-AJ24B (YE) |
| 29-AA47 (OG/BK) | (13) 32-AA11 (WH/VT) |
| (5) 33-AJ18 (YE/VT) | (14) 14S-AJ20 (VT) |
| (6) 33-AJ14B (YE/BU) | (15) 33-AA10 (YE/BK) |
| 32-AA11 (WH/VT) | (16) 29-AA47 (OG/BK) |
| (7) 32-AJ24A (WH) | (17) 32-MD17 (WH/RD) |
| 33-AA10 (YE/BK) | (18) 33-MD17 (YE/RD) |
| (8) 32-AJ24B (WH) | |

C25**14A584**

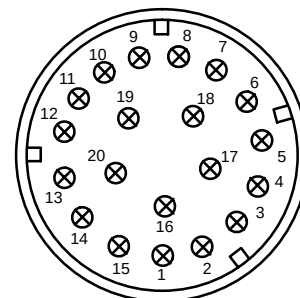
F20003



- | | |
|---------------------|----------------------|
| (1) 32-MD28 (WH) | (7) 33-AA20 (YE/BU) |
| (2) 31-AA48 (BK) | (9) 14-AJ18 (VT/WH) |
| (4) 29-AA48 (OG/BU) | (10) 33-MD28 (YE) |
| (5) 33-AJ18 (YE/VT) | (11) 32-AJ18 (WH/VT) |
| (6) 32-AA21 (WH/GN) | |

14401

F20002



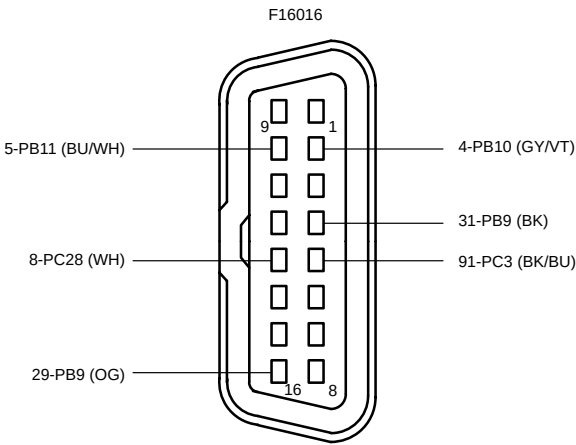
- | | |
|---------------------|----------------------|
| (1) 32-MD10 (WH/BK) | (7) 33-AA20 (YE/BU) |
| (2) 31-DA4 (BK) | (9) 14-AJ18 (VT/WH) |
| (4) 29-AA48 (OG/BU) | (10) 33-MD10 (YE/BK) |
| (5) 33-AJ18 (YE/VT) | (11) 32-AJ18 (WH/VT) |
| (6) 32-AA21 (WH/GN) | |

Connector Views

700-07-00

C31

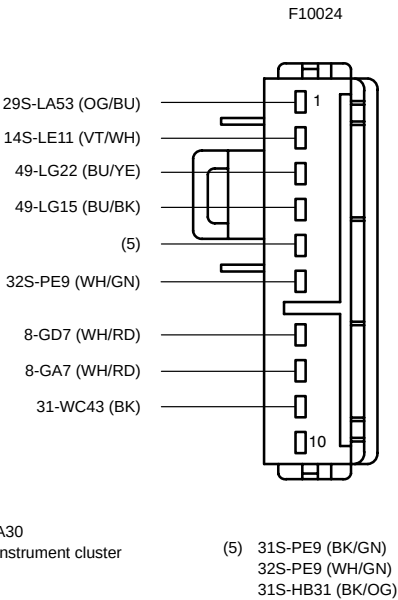
14401



D20
Data Link Connector
(DLC)

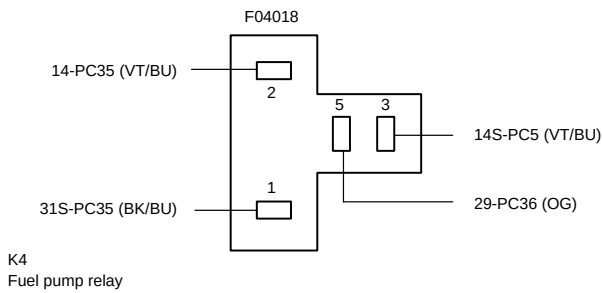
C37a

14401



C36

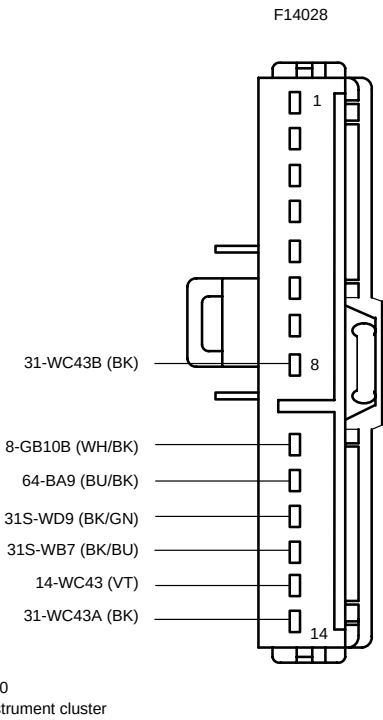
14401



K4
Fuel pump relay

C37b

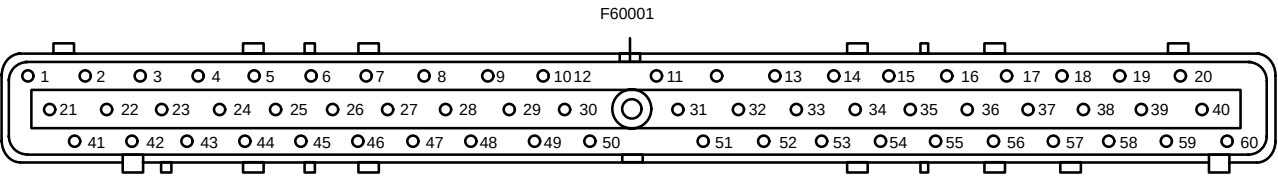
14401



Connector Views

700-07-00

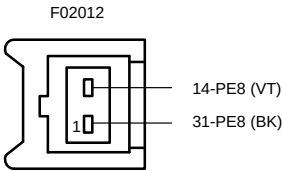
C43
14401



- | | | | |
|-----------------------|-----------------------|-----------------------|------------------------|
| (1) 89-PC28 (OG/YE) | (16) 91-PC28A (BK/YE) | (31) 91S-PA17 (BK/WH) | (46) 9-PC1 (BN/RD) |
| (2) | (17) 8-PC28 (WH) | (32) | (47) 8-PC64 (WH) |
| (3) 8-PC60 (WH/BU) | (18) 5-PB11 (BU/WH) | (33) 91S-PC47 (BK/BU) | (48) |
| (4) 8-GB10 (WH/BK) | (19) 4-PB10 (GY/VT) | (34) 91S-PC48 (BK/OG) | (49) 8-PC55 (WH/GN) |
| (5) | (20) 31-PC28 (BK) | (35) | (50) |
| (6) 31S-PA5A (BK/BU) | (21) 91S-PC40 (BK/YE) | (36) | (51) 91S-PC45 (BK/WH) |
| (7) 8-PC31 (WH/GN) | (22) 31S-PC35 (BK/BU) | (37) 14S-PC28 (VT/YE) | (52) 91S-PC46 (BK/YE) |
| (8) 14S-PC74 (VT/BK) | (23) | (38) | (53) |
| (9) | (24) 8-PC71 (WH/VT) | (39) | (54) 31S-CA11 (BK/YE) |
| (10) 14S-PC72 (VT/BU) | (25) 8-PC11 (WH/VT) | (40) 91-PC28B (BK/YE) | (55) 9-PC19 (BN/RD) |
| (11) 91S-PC14 (BK/OG) | (26) 7-PC64 (YE) | (41) | (56) 8-PC19 (WH/RD) |
| (12) | (27) | (42) | (57) 14S-PC28A (VT/YE) |
| (13) 91S-PA7 (BK/BU) | (28) 8-CE6 (WH) | (43) 9S-BB6 (BN) | (58) 91S-PC41A (BK/BU) |
| (14) | (29) | (44) 8-PC54 (WH) | (59) 91S-PC41B (BK/BU) |
| (15) | (30) 9-PC71 (BN/WH) | (45) 8-BA12 (WH/BU) | (60) 91-PC28 (BK/YE) |

A147
Powertrain control module (PCM)

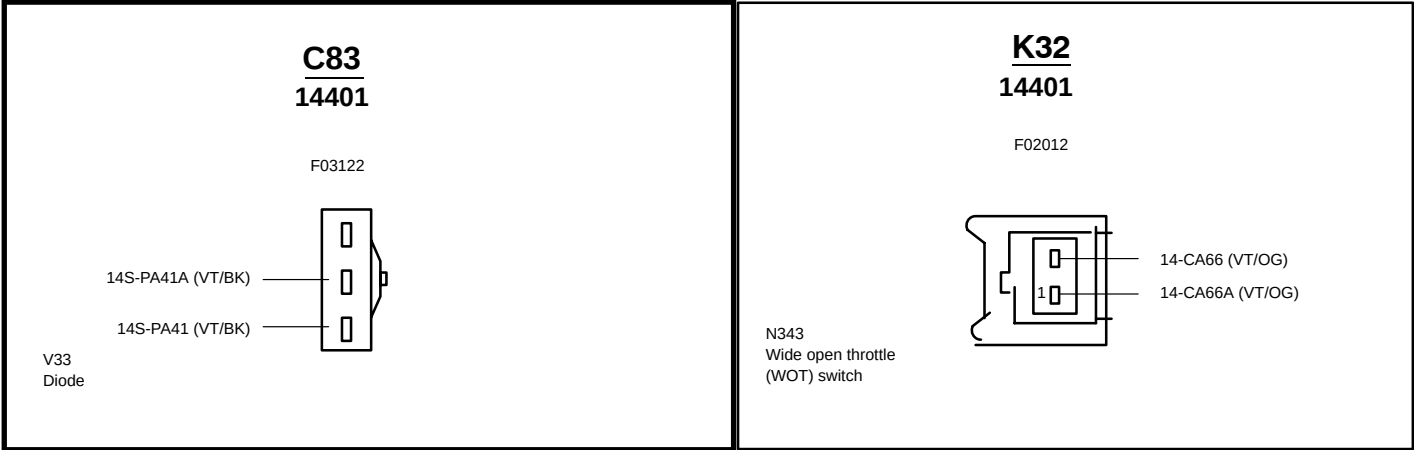
C44
14401



R32
Fuel heater

Connector Views

700-07-00

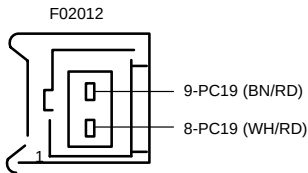


Connector Views

700-07-00

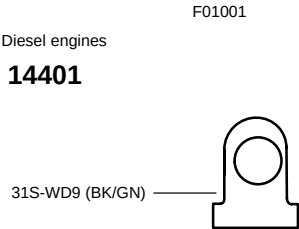
-18

C84
14300



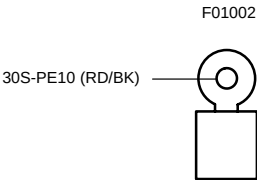
B43
Crankshaft position
sensor

C93
14300



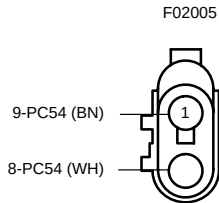
N17
Oil pressure switch

C85
14401



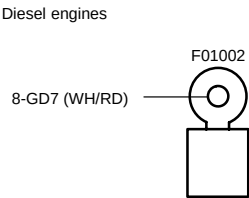
P20
Glow plugs

C86
14401



B156
Oxygen sensor
(O2S)

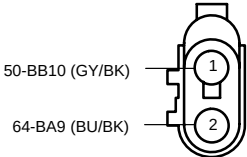
C94
14401



C128

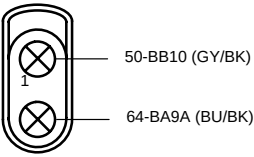
14401

F02005



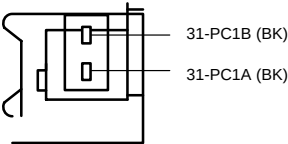
14300

F02007



C111
9H589

F02012



B41
Camshaft position
sensor

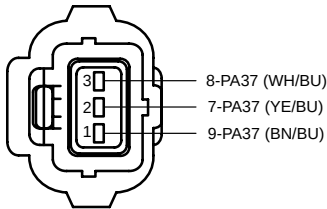
Connector Views

700-07-00

C206

14401

F03093

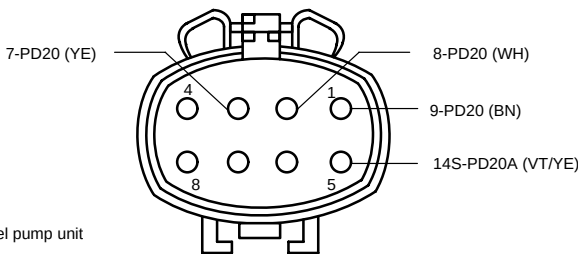


B49
EGR valve position sensor

C207

14401

F08040

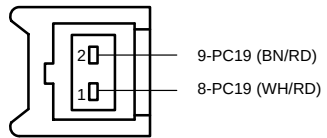


A74
Diesel pump unit

C313

14401

F02012



B43
Crankshaft position sensor