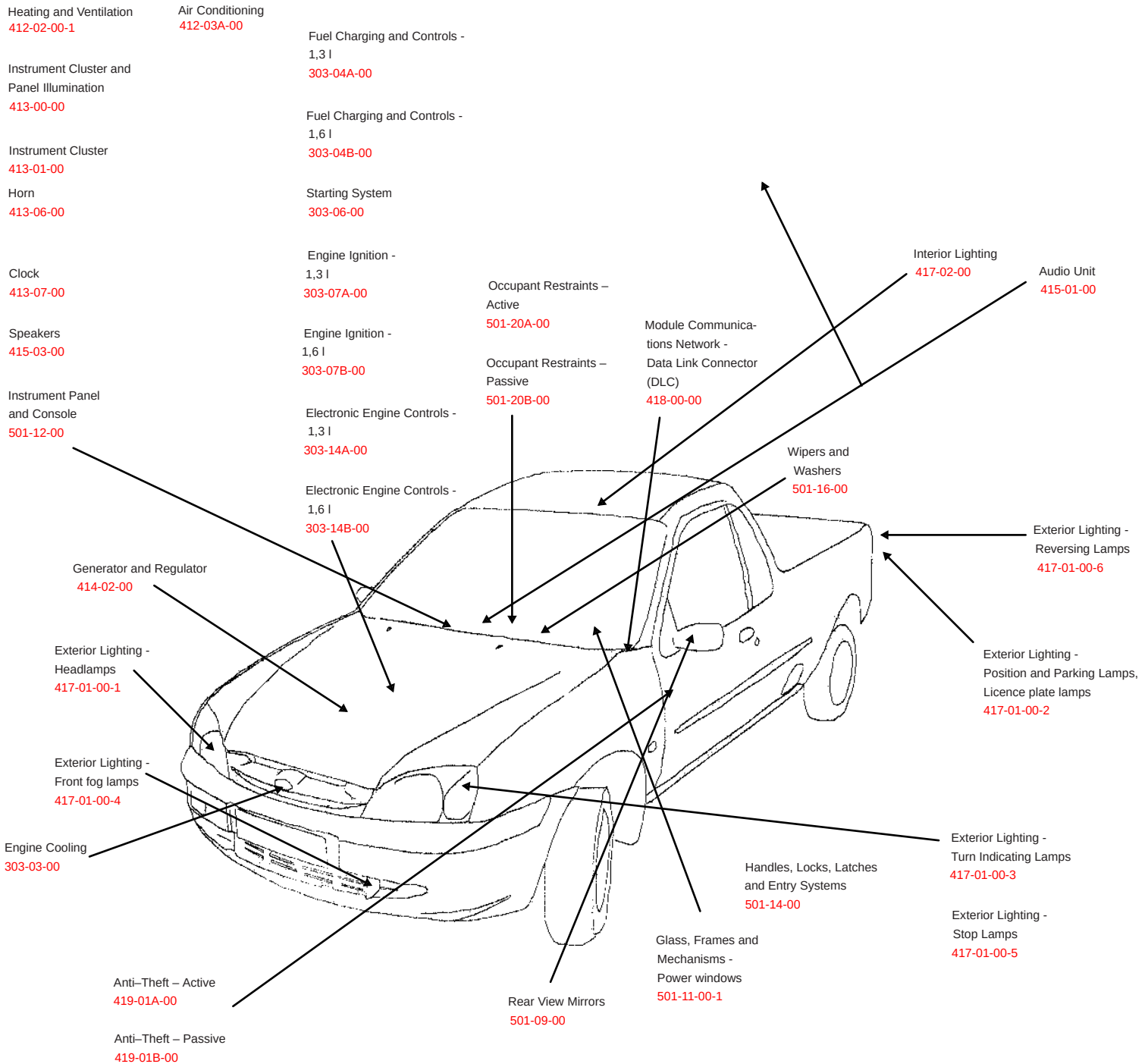


Systems Overview

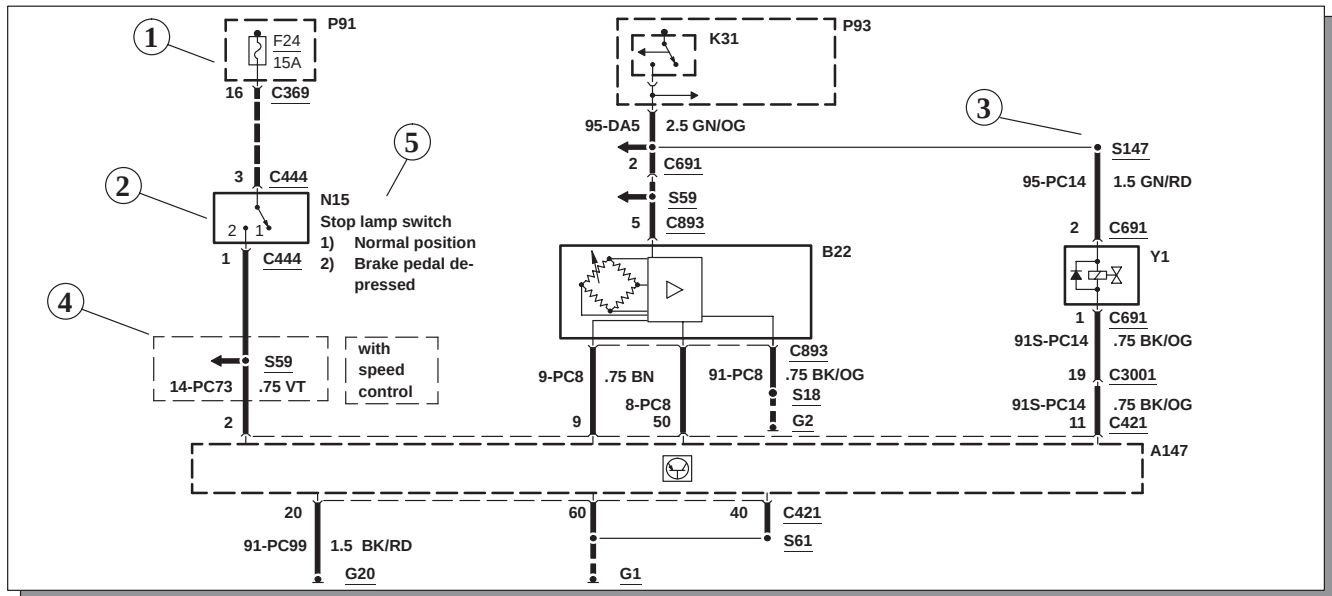
100-00-01

-1



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.

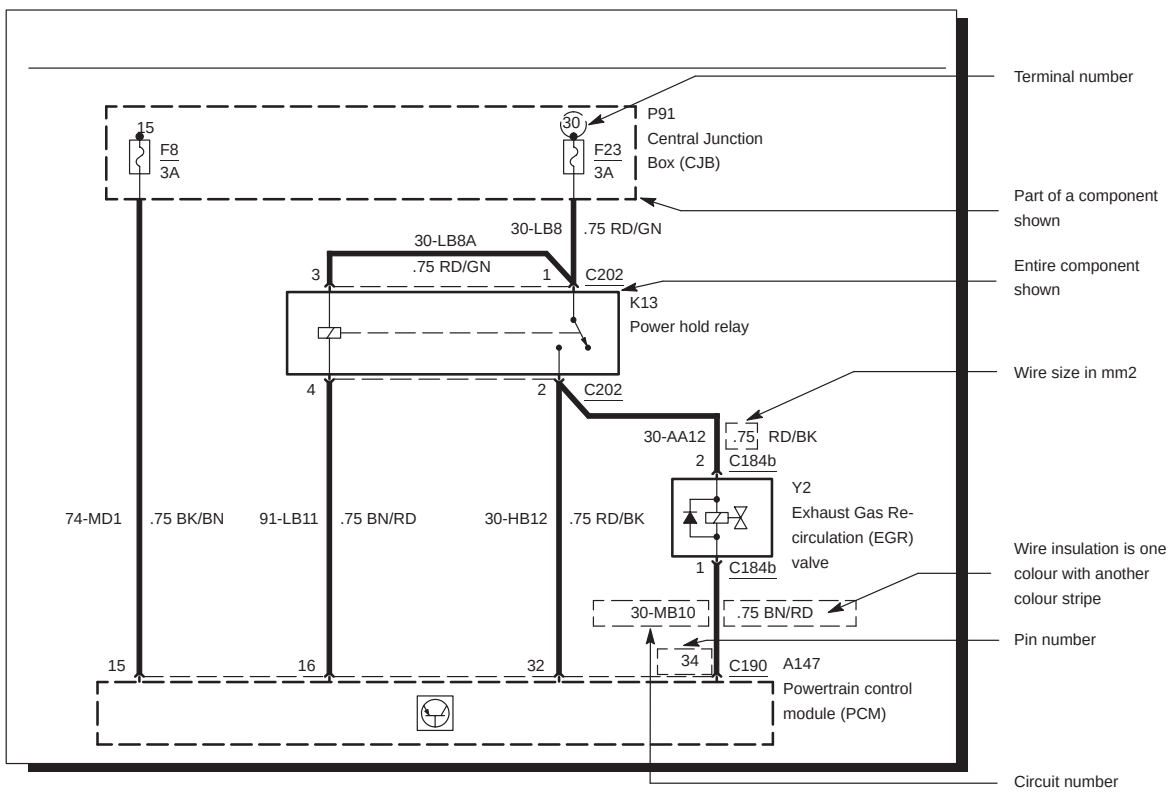
Component Names and Notes (5)

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.

Symbols

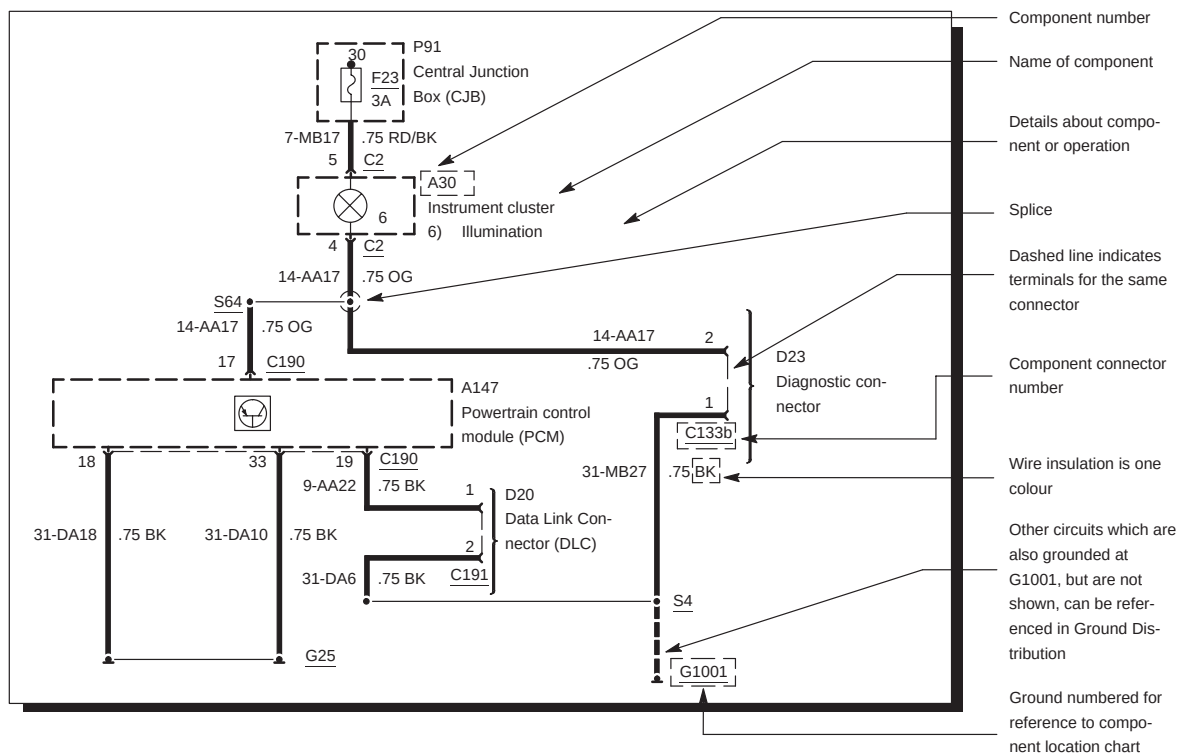
100-00-04

-9



'02 BANTAM E.W.D PETROL

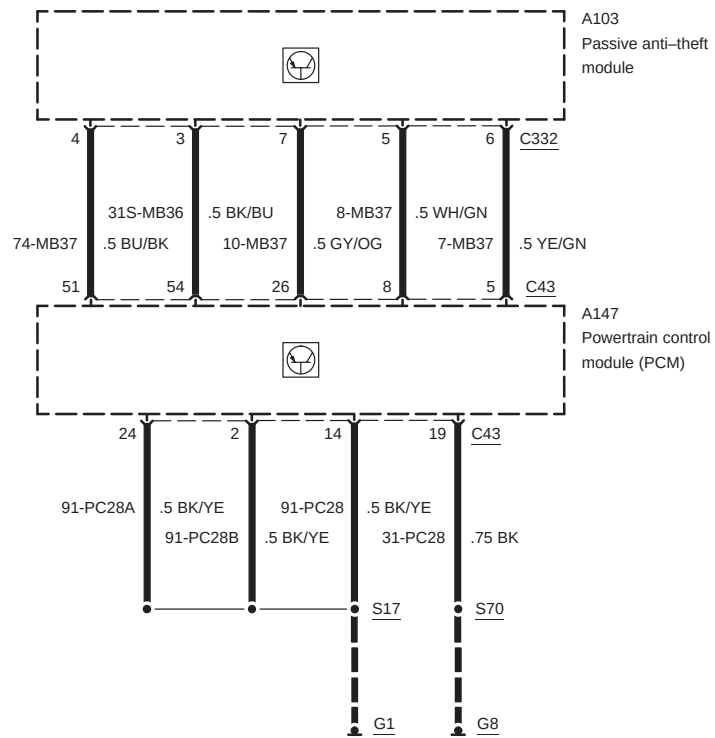
-10

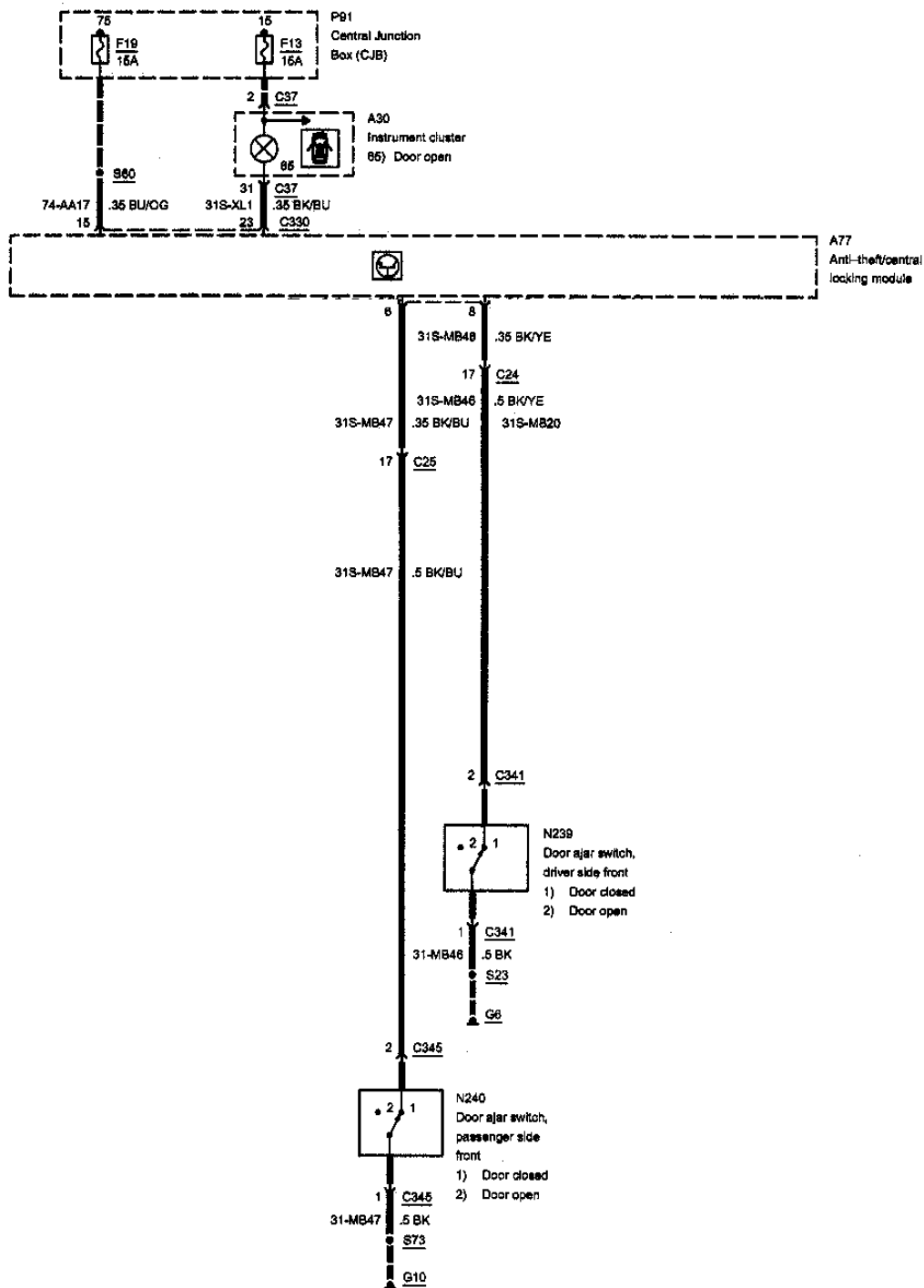


Electronic Engine Controls – 1,6 l

303-14B-00

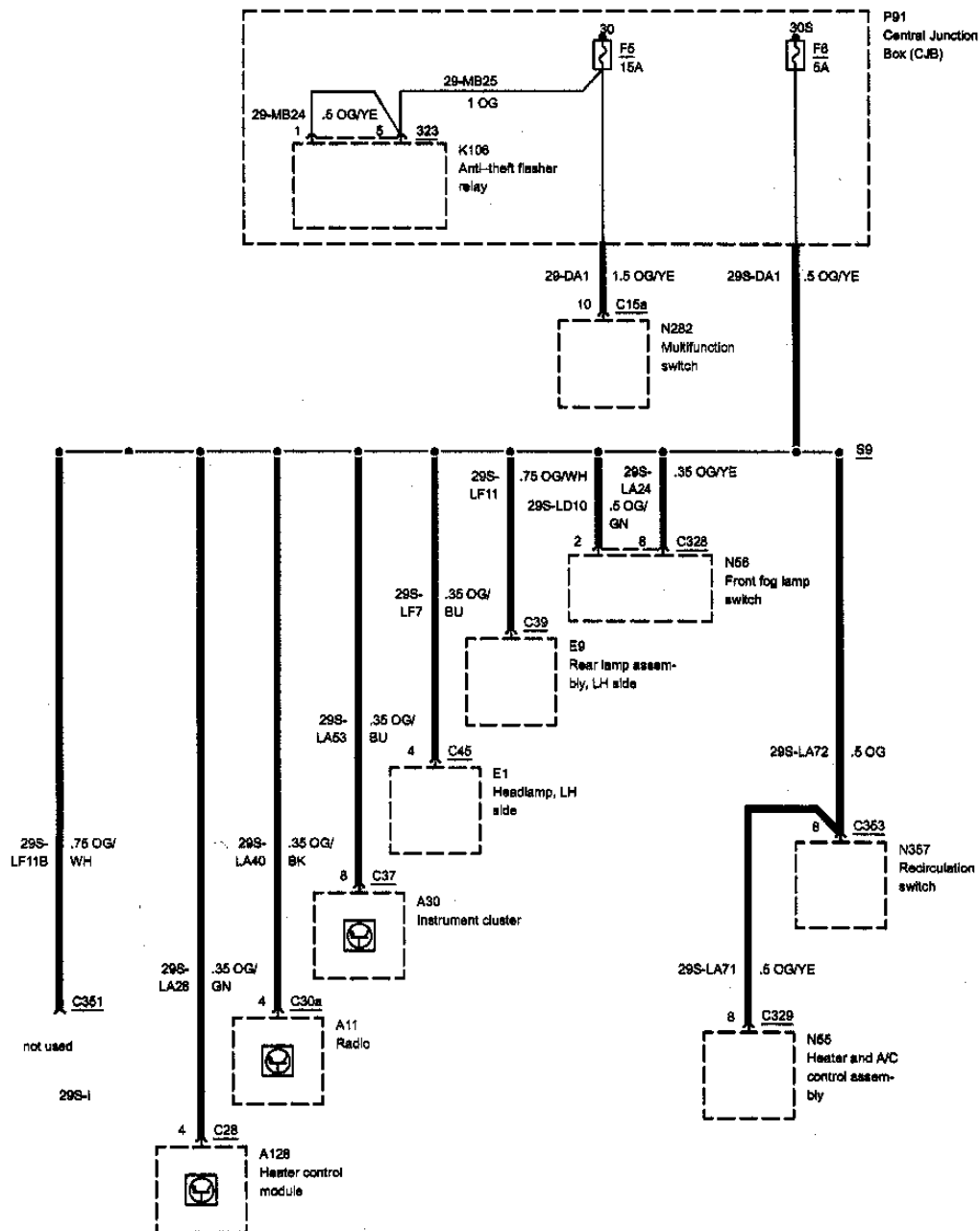
-4





F5, F6

-4

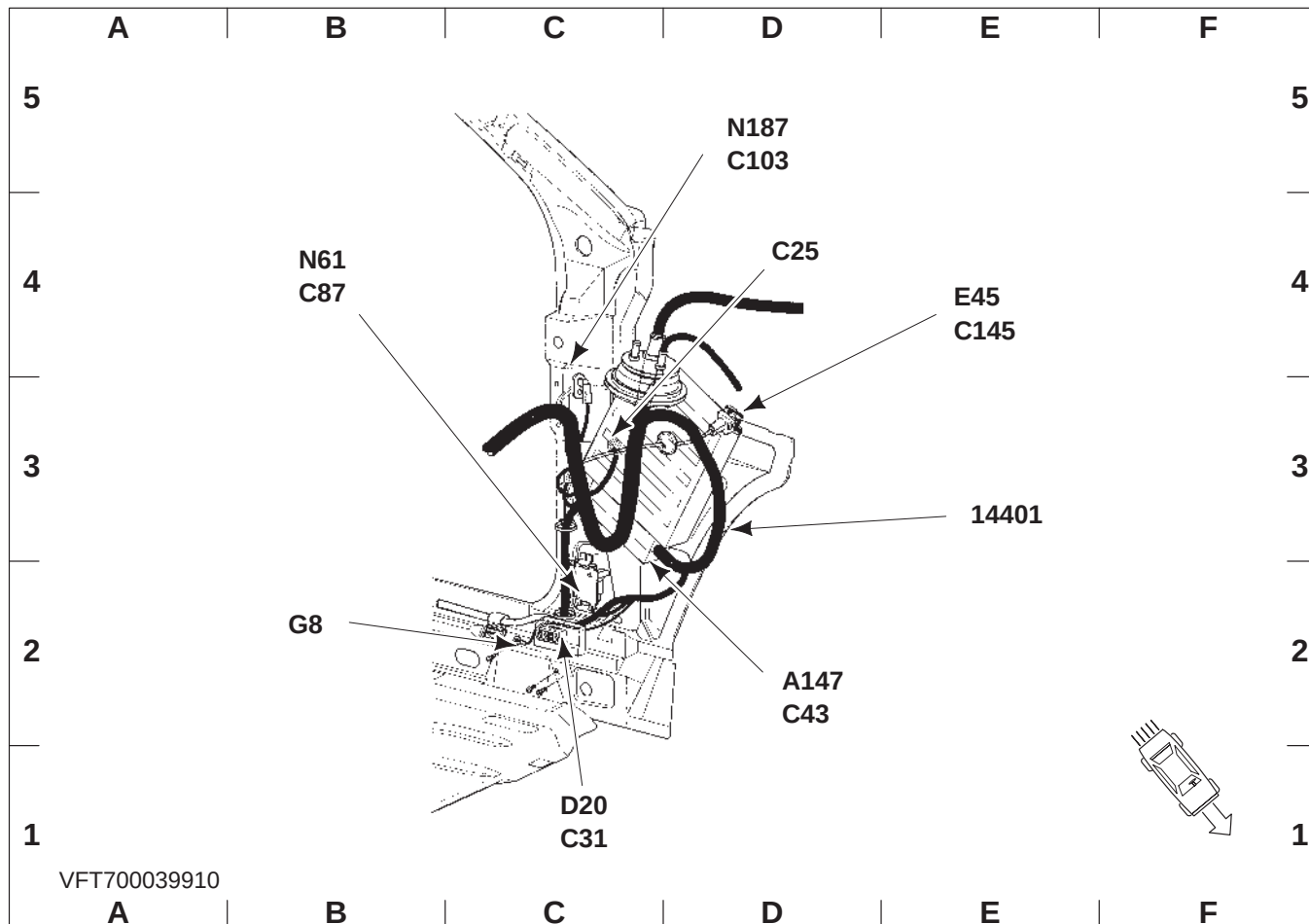


Component Location Views

700-06-00

LH A-pillar

-10



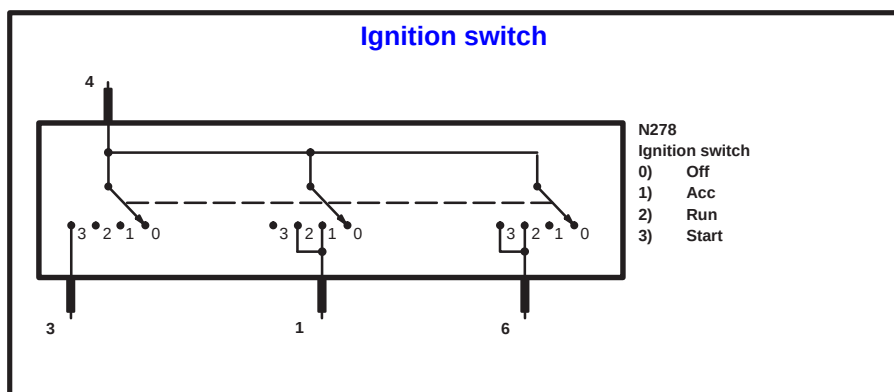
LH A-pillar

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		

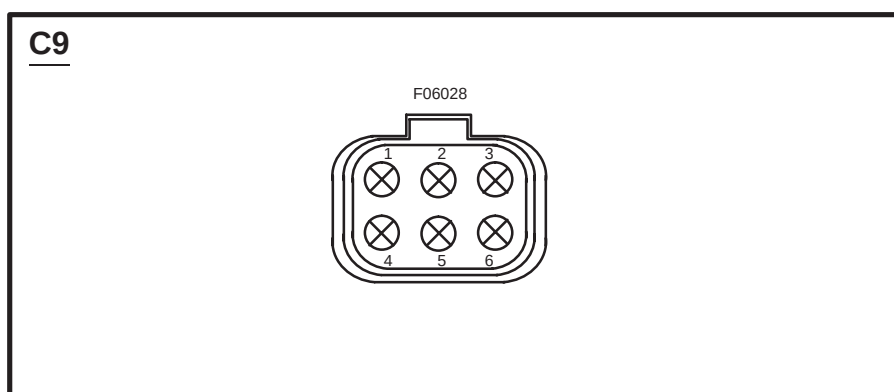
Ignition switch

-2

Schematic



Terminal locations

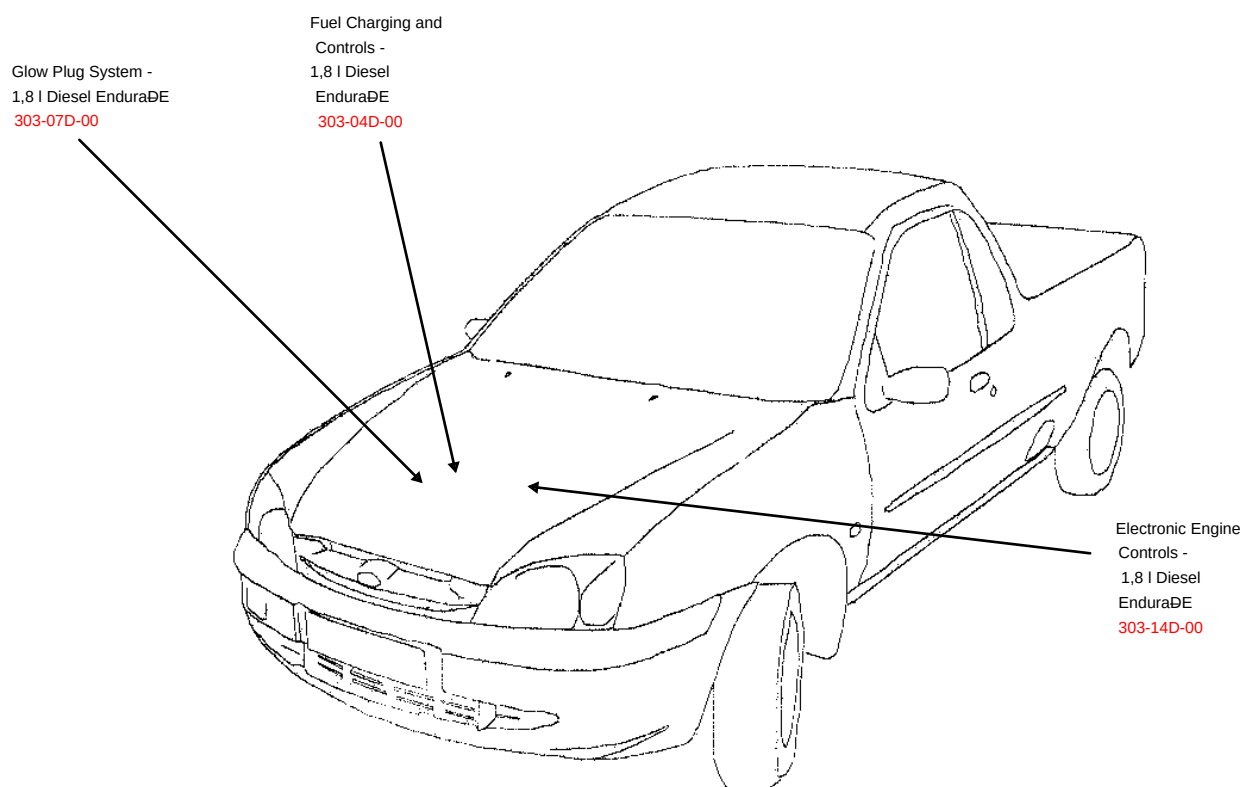


Component testing procedure

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

Systems Overview

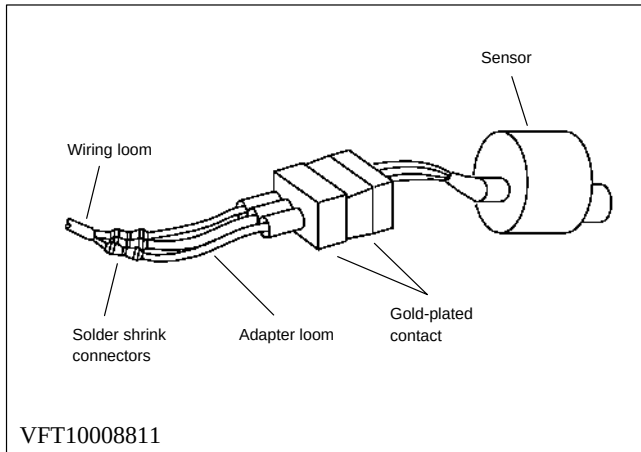
100-00-01



Connector Repair Procedures

100-00-05

-6

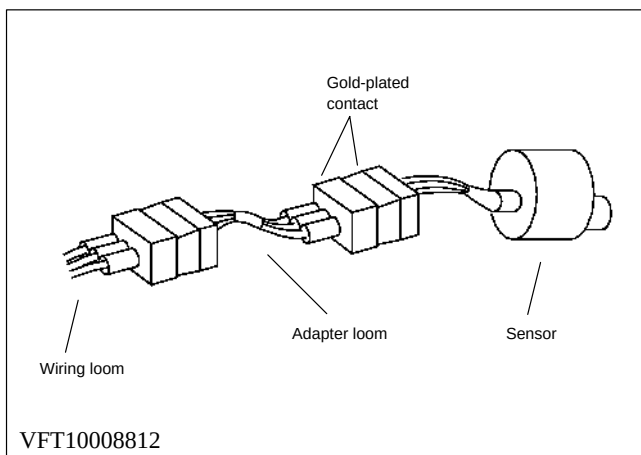


When a connector or a sensor needs to be replaced, the new replacement may include gold-plated contacts.

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

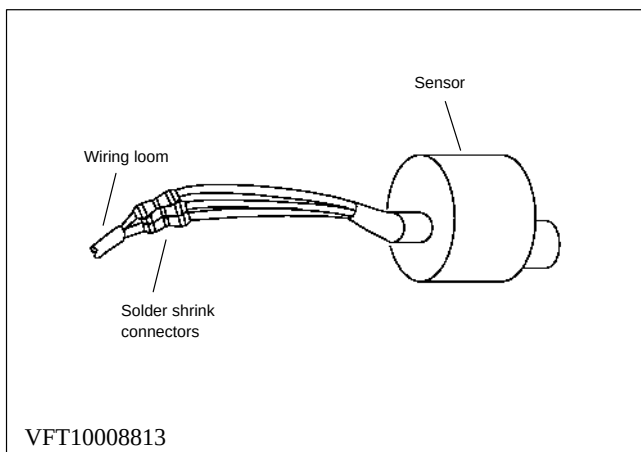
If a sensor with tin-plated contacts is to be replaced with a new sensor with gold-plated contacts, a special adapter loom must be used. The same applies to replacement wiring looms with gold-plated contacts which are being connected to sensors with tin-plated contacts.

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).

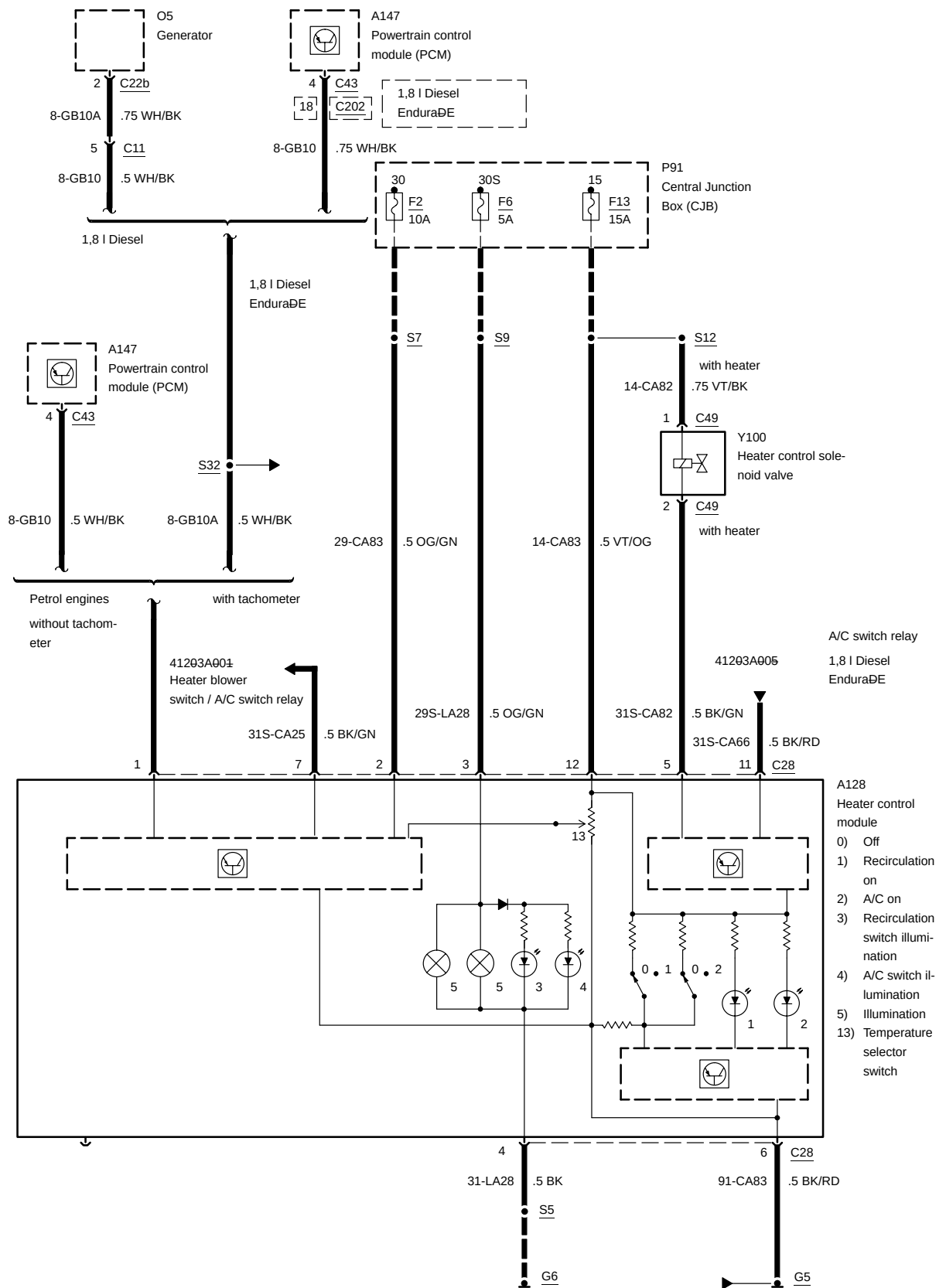
Only solder shrink connectors should be used to attach cut wires together (order from Ford parts). The solder shrink connectors that are available in the wiring loom repair kit from Grundy are approximately the same.



Air Conditioning

412-03A-00

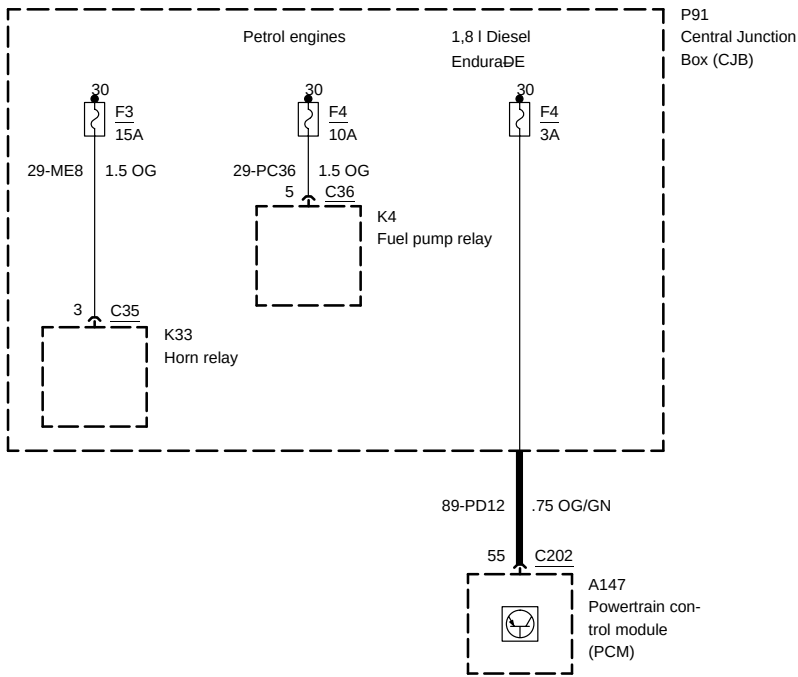
-2



Fuse Details

700-03-00

F3, F4



Component Location Charts

700-05-00

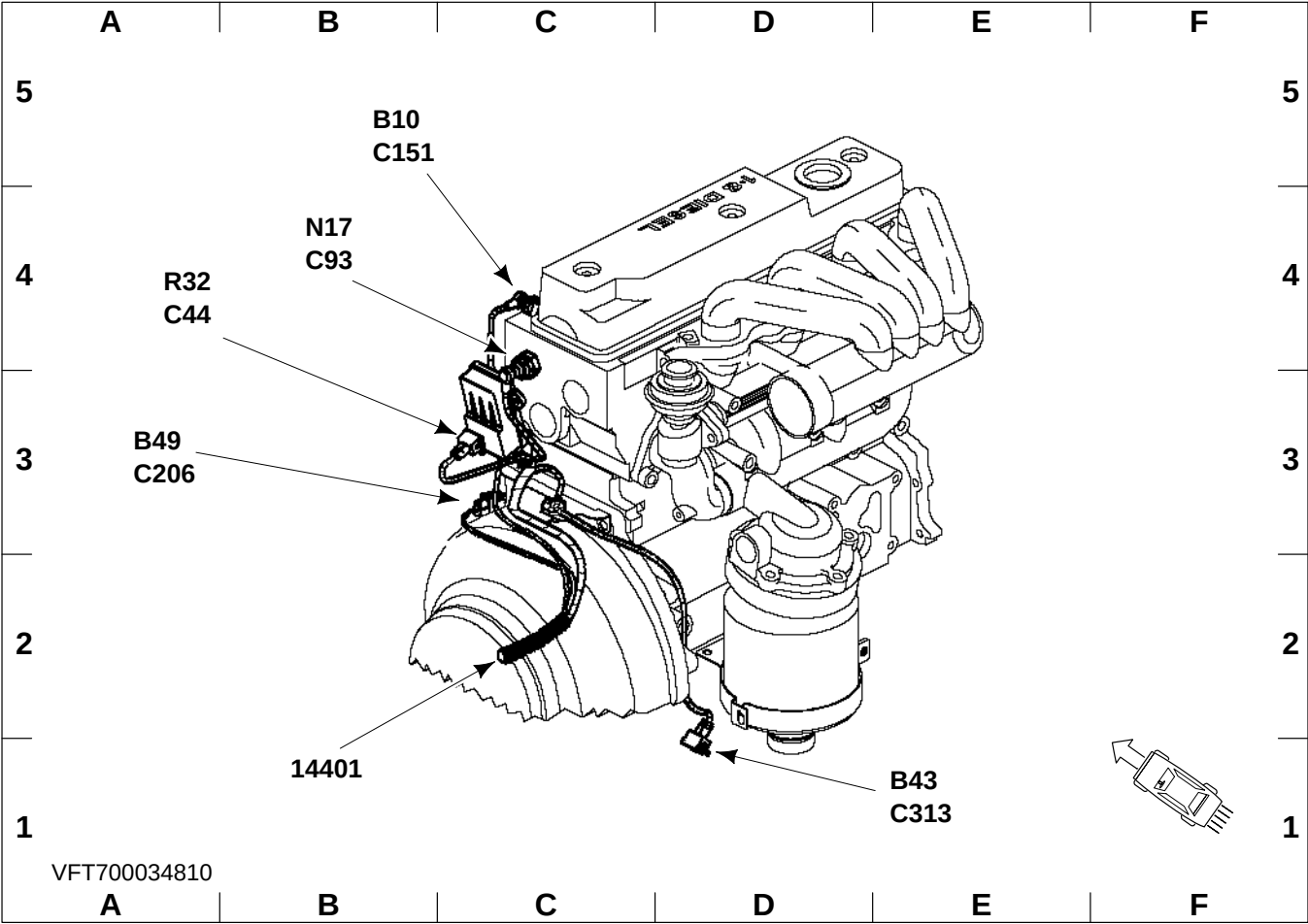
Components		Section 700-06-00	-6
Location		Page/coordinates	
R32	Fuel heater engine, 1,8 l Diesel EnduraDE	3	D 2
P93	Battery Junction Box (BJB) engine compartment, rear, LH side	1	D 5
R32	Fuel heater engine, 1,8 l Diesel EnduraDE	3	D 2
R32	Fuel heater engine, 1,8 l Diesel	4	E 5
V33	Diode on Central Junction 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 Views

700-06-00

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

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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