Electric Distribution/Electronic Control (18.00)

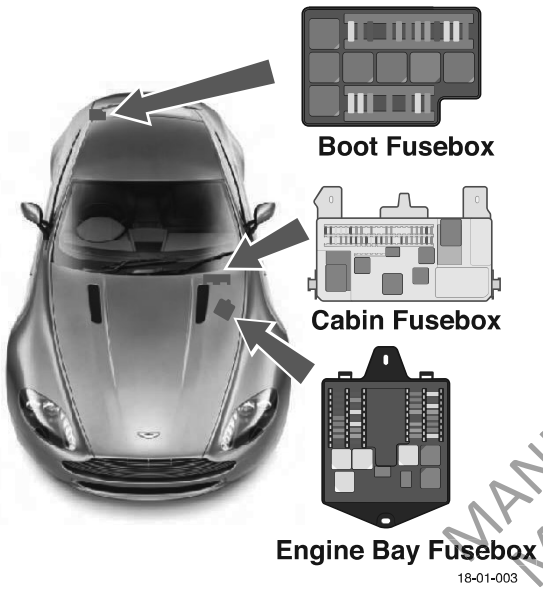
Wiring and Circuit Protection (18.01)

Fuse Boxes

From the clean 12V output terminal of the battery disconnect switch, electrical power is distributed to three fuse boxes:

- Engine bay fuse box (LH side of engine bay on LH drive vehicles)
- Boot fuse box
- Central electronic module (CEM) fuse box, via a CEM protection fuse box (Passenger side)

The fuse boxes also contain the switching relays.



Always ensure that the fusebox covers are located correctly to prevent ingress of water or foreign materials

The Central Electronic Module (CEM) fuse box is always located on the passenger side.

Fuse Listings

Engine Bay Fuse/Relay Box

Fuse/ Relay	Rating	Function
F1	10A	Spare
F2	10A	Tracker (option)/Clock
F3	10A	Cooling fan module
F4	20A	Engine management Module - ABS/Key Reader and Steering angle sensors
F5	20A	Spare
F6	15A	Spare
F7	15A	Spare
F8	10A	Engine coolant level sensor/Valve
F9	20A	Spare
F10	10A	A/C clutch
F11	15A	Horn
F12	10A	Keep alive power PCM
F13	20A	Injectors
F14	10A	EGR Module
F15	25A	Starter motor
F16	15A	Coils/Suppressor solenoids
F17	5A	Glove box release
F18	15A	Exhaust Gas Oxygen (HEGO) sensors/ Variable valve timing solenoids/Catalyst monitor sensor (CMS)
F19	30A	ABS module/Battery feed
F20	30A	ABS module/Battery feed
F21	30A	Heated front screen
F22	5A	MAF Sensors/Solenoid vacuum
F23		Blank
F24	5A	Alternator
F25	5A	Spare

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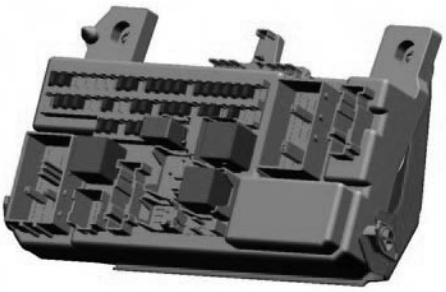
F26	20A	Headlamp wash pump (HID Only)
F27	25A	Spare
F28	10A	Module - ABS/Key Reader and Steering angle sensors
F29	25A	Spare
F30	5A	Alternator battery sensing
F31	30A	Heated front screen
F32	30A	Wiper (slow)
F33	30A	Wiper (fast)
F34	20A	Heater Blower motor
F35	60A	Cooling fan module

Central Electronics Module Fusebox



Fuse/ Relay	Rating	Function
F43	10A	Multi media module display/Phone/GPS tuner/Media player
F44	10A	Airbag module
F45	15A	Accessory socket and illumination
F46	5A	Driver Information/Master light switch/Glove box relay/Master lock switch Battery Off switch/Boot release switch/Speaker-switch/ JBFB-R7/Centre console module/Bluetooth module
F47	5A	Interior lamps (front)/Seat switches/Fuel flap switch/glovebox switch/Rear power illumination
F48	15A	Windscreen wash pump
F49	10A	Occupant detect (Driver and passenger seat)/Airbag module
F50		
F51	10A	Diagnostic connectors/Centre stack switches
F52	5A	Start button
F53	10A	Module - HID lighting
F54	10A	Engine fuse box/Boot fuse box/Tyre pressure monitor module/Satellite navigation relay
F55		
F56	10A	Centre console module/Sounder module/ Hazard switch
F57	15A	Diagnostic connectors/Brake pedal switch
F58	10A	High beam (RH)
F59	10A	High beam (LH)
F60	15A	Drivers seat power (Heating)
F61	15A	Passenger seat power (Heating)
F62	20A	A/C module
F63	20A	
F64	5A	AM/FM receiver module/Traffic Monitoring Control module (TMC)
F65	5A	Media player/Multi media module and display/Audio amplifier
F66	10A	Centre console module/Infotainment control module
F67		
F68		
F69	5A	BFB-R5
F70		
F71		
F72		
F73		
F74	15A	Fuel pump
F75		
F76		
F77	15A	Boot power socket
F78		
F79	5A	Reversing lamps/Module - Parking aid
F80	5A	Battery 'Off' switch
F81	20A	Ignition switch
F82	25A	Passenger door module
F83	25A	Driver door module
F84	25A	Passenger seat power/Passenger seat switchpack
F85	25A	Driver seat power/Driver seat switchpack
F86	5A	Start button, Driver and passenger seats

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Boot Fusebox

Fuse/ Relay	Rating	Function
F1	5A	Spare
F2	20A	Spare
F3	30A	Heated rear window
F4	20A	Spare
F5	30A	Spare
F6	20A	Spare
F7	5A	Battery disconnect switch (BDS) power
F8	20A	Spare
F9	20A	Tracker
F10	30A	Spare
F11	20A	Spare
F12	20A	Spare
F13	10A	Spare
F14	5A	Rear parking assistance module (optional)
F15	5A	Spare
F16	30A	Spare
F17	5A	Spare
F18	30A	Audio amplifier
F19	5A	Spare
F20	10A	Canister vent
F21	30A	Spare
F22	20A	Exhaust by-pass and vacuum pump

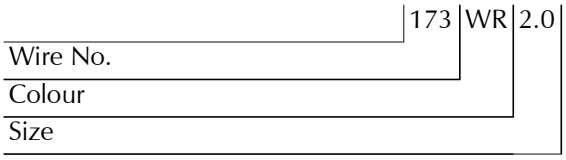
How to Read the Circuits

Below is a simple guide to what symbols mean on the circuit diagrams. For some of the symbols there are descriptions as to how they function.

Wires

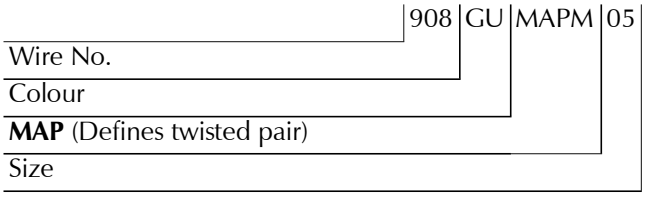
Wire numbers have been deleted from the original engineering circuits. This allows the type size to be increased for improved legibility of the service circuits.

Wires vary in size to allow different current to be carried. For example a wire with a diameter of 0.50mm (This is the diameter of all the internal copper strands together) will carry 11A (dependant on ambient temperature) whilst a wire with a diameter of 2.00mm will carry 25A.



Twisted Wires

The 'figure of 8' shown on circuits as below denotes a twisted wire and shows the wires that are twisted together. A wire generates a certain amount of 'electrical noise' when a current is passed through it. By twisting the 2 wires together the 'electrical noise' is cancelled out on each wire by the opposing wire. This is used more on sensors and audio speakers.



Screened and Twisted Screen Wires

The signals through a wire can be affected by externally generated electrical noise. To reduce the external interference the wires are placed inside a conductive sleeve. One end of the conductive sleeve is always open whilst the other end can be terminated to a ground, to a component, or left open.

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