

BMW 3 Series wiring diagrams

Diagram 1



WARNING: This vehicle is fitted with a supplemental restraint system (SRS) consisting of a combination of driver (and passenger) airbag(s), side impact protection airbags and seatbelt pre-tensioners. The use of electrical test equipment on any SRS wiring systems may cause the seatbelt pre-tensioners to abruptly retract and airbags to explosively deploy, resulting in potentially severe personal injury. Extreme care should be taken to correctly identify any circuits to be tested to avoid choosing any of the SRS wiring in error.

For further information see airbag system precautions in body electrical systems chapter.

Note: The SRS wiring harness can normally be identified by yellow and/or orange harness or harness connectors.

Key to symbols

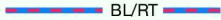
Solenoid actuator



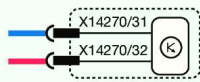
Earth point and location



Wire colour
(blue with red tracer)



Dashed outline denotes part of a larger item, containing in this case an electronic or solid state device (pins 31 and 32 of a connector X14270).



Bulb



Switch



Fuse/Fusible link



Resistor



Variable resistor



Variable resistor



Wire splice, soldered joint, or unspecified connector



Connecting wires



Diode



Light-emitting diode



Item number

12

Motor/pump



Heating element



Typical luggage comp. fusebox 7

(models to 03/2007)

Fuse Rating Circuit protected

F104	-	Battery sensor
F105	100A	Electric power steering
F106	100A	Auxiliary heater
F106	100A	Electric auxiliary heater
F108	250A	Junction box
F203	100A	B+ terminal, starter, battery

(models from 03/2007)

Fuse Rating Circuit protected

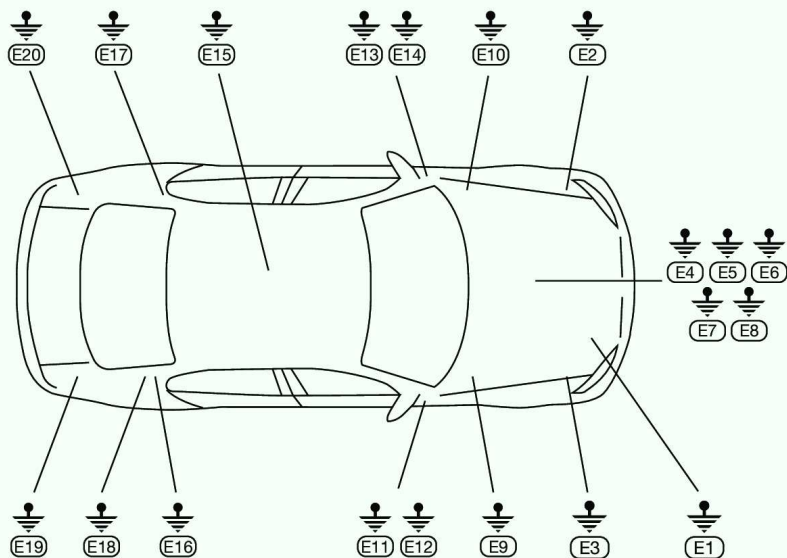
F101	250A	Junction box
F102	100A	B+ terminal, starter, battery
F103	100A	Electric power steering
F104	100A	Auxiliary heater
F105		Intelligent battery sensor
F106	100A	Electric auxiliary heater

Typical engine comp. fusebox 29

Fuse Rating Circuit protected

F01	30A	Ignition coils
F02	30A	Coolant thermostat, coolant pump, camshaft sensors, VANOS solenoids
F03	20A	Crankshaft sensor, engine control unit, mass air flow sensor, fuel tank vent valve, oil condition sensor, variable intake manifold controllers
F04	30A	Oxygen sensor heater, crankcase breather heater
F05	30A	Fuel injector relay
F06	10A	EAC sensor, engine compartment fusebox fan, exhaust fan, passenger compartment fusebox, secondary air injection mass airflow sensor, exhaust flap
F07	40A	Valvetronic relay
F09	30A	Electric cooling pump
F010	5A	Crankcase breather heating relay

Earth locations



E1	Engine bay, RH lower engine block	E14	Passenger compartment, LH footwell
E2	Engine bay, LH front inner wing	E15	Passenger compartment, under centre console
E3	Engine bay, RH front inner wing	E16	Passenger compartment, below RH rear seat bolster
E4	Engine bay, top of cylinder head	E17	Passenger compartment, below LH rear seat bolster at C-pillar
E5	Engine bay, top of cylinder head	E18	Passenger compartment, below rear seat backrest, lower RH
E6	Engine bay, top of cylinder head	E19	Luggage compartment, RH side
E7	Engine bay, top of cylinder head	E20	Luggage compartment, LH side
E8	Engine bay, top of cylinder head		
E9	Engine bay, RH strut tower		
E10	Engine bay, LH rear of engine compartment		
E11	Passenger compartment, RH footwell		
E12	Passenger compartment, RH footwell		
E13	Passenger compartment, LH footwell		