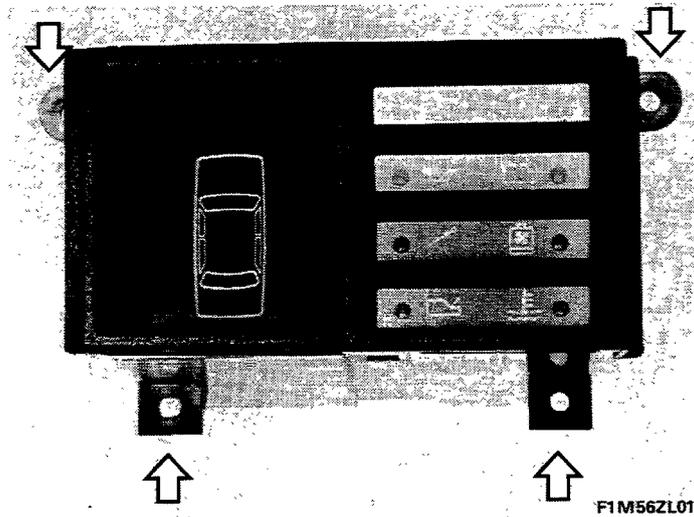


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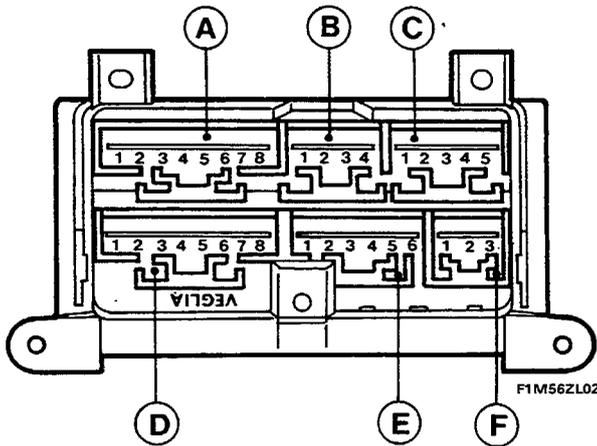


CAR OPERATION MONITORING DEVICE (CHECK PANEL)

Car operation monitoring check and display unit (Check Panel)

See page 41 for removal-refitting operations.

(→) Bolts retaining Check Panel module to fascia



A-B-C-D-E-F. Terminals for connection to various functions monitored.

Back of Check Panel with connection terminals

TERMINAL BLOCK A		
Cable colour	No.	CABLE CONNECTION
HR	1	To left fog lamp bulb via control box 7D-2A
MB	2	To right fog lamp bulb via control box 8D-11A
RN	3	To left stop light bulb via control box 2D-8A
RV	4	To right stop light bulb via control box 1D-5A (may be exchanged for 3)
AR	5	From stop light switch working contacts
H	6	To rear fog lamp light switch and control panel warning light via control box 9D-1C-1I
VG	7	Supply of side lights from fuse no. 3 (under POS ignition switch) from 11-D on control box (also number plate and cigarette lighter light)
HG	8	Supply of side lights from fuse no. 4 (under POS) from 10-D of control box (also digital clock display, dimmer, luggage compartment light and control panel lighting)

TERMINAL BLOCK B		
Cable colour	No.	CABLE CONNECTION
BR	1	To right front side light
V	2	To left rear side light via control unit 3D-4A (may be exchanged with no. 4)
GN	3	To left front side light
A	4	To right rear side light via control unit 5D-9A (may be exchanged with no. 2)

TERMINAL BLOCK C		
Cable colour	No.	CABLE CONNECTION
R	1	From switch resting contacts
BN	2	To right front door button (via front door transverse cable connectors)
BR	3	To left rear door button (via door lock connector)
VB	4	To left front door button (via front door transverse cable connector)
CB	5	To right rear door button (via power window connector, door lock)

TERMINAL BLOCK D Various devices		
Cable colour	No.	CABLE CONNECTION
N	1	To right front earth loom
	2	Spare
VN	3	To coolant level sensor located in expansion tank
BN	4	Battery charge warning light from +D generator
HV	5	Low oil pressure warning light from associated switch
R	6	+ from INT terminal of ignition switch via fuse no. 1 of control box & h-6F for battery charging warning light
HG	7	To engine oil level sensor
HR	8	To engine oil level sensor

TERMINAL BLOCK E		
Cable colour	No.	CABLE CONNECTION
MB	1	Low fuel level warning light from blade 1. terminal B of control panel
HR	2	Maximum coolant temperature warning light from blade 2, terminal B of control panel
V	3	To check socket, then to blade 3, terminal B of panel for general Check Panel start-up signal
RV	4	To Check Panel check socket, then to blade 4, terminal B of panel for supply of GREEN and RED Check Panel warning lights
RN	5	To Check Panel check socket, then to blade 5, terminal B of Check Panel general FAILURE warning light
G	2	To blade 6, terminal D of panel for lighting

TERMINAL BLOCK F To sensors		
Cable colour	No.	CABLE CONNECTION
S	1	To brake fluid level sensor
SN	2	To left front brake lining wear sensor
VG	3	To right front brake lining wear sensor

MULTIPLE SUPPLY CABLES		
Cable colour	No.	CABLE CONNECTION
RN	1	Supply from fuse 12, not locked, via blade 8, of connector I of control box and courtesy light transverse cable bundle connector
G	2	Supply from fuse 4 (locked, POS terminal) from blade 6. of connector I of control box
N	3	General earth to left front earth loom
	4	Supply from fuse 1 (locked, INT terminal) via blade 4, of connector M of control box

Composition

This system for checking the operation of several important electrical circuits and various car functions (oil level, brake fluid etc.) comprises:

- An electronic CONTROL UNIT incorporating a light circuit check module and a check monitor that memorises and displays faults;
- A general GREEN warning light and a RED light located in a prominent position on the control panel;
- a system of connecting cables joining car circuits to be checked and the control unit;
- some N.C. sensors i.e. with contacts normally closed during correct operation of monitored service and other N.O. sensors, i.e. normally open, with contacts normally open during correct operation of monitored service.

Characteristics of check panel

This multifunctional electronic device checks the functions listed below as follows:

Checks with engine off (ignition key in MARCIA position)

- low oil level. If the level is too low, the fault is memorised so that it can be displayed when the engine is started up;
- low coolant level. If the level is too low, the fault is memorised so that it can be displayed when the engine is started up.

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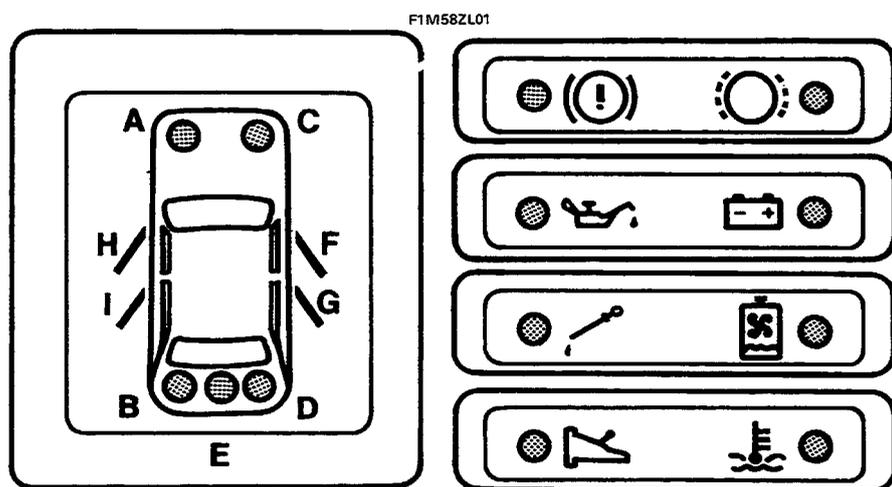
- low oil pressure;
- alternator is not providing sufficient current (failure).

Checks run with engine off and running:

- brake fluid level;
- excessive coolant temperature;
- excessive automatic transmission fluid temperature (for cars with this feature);
- wear (maximum) of front brake linings.

The device also checks the following services if activated (with ignition key in MARCIA position or with engine running):

- side lights (side light switch on);
- rear fog lamps (dipped beam and fog lamp switches on);
- stop lights (brake pedal depressed);
- brake lining wear signal (initial) (brake pedal depressed).



Symbols(from left to right - from top to bottom)

Low brake fluid level, front brake linings excessively worn, low oil pressure, alternator defective, low oil level, low coolant level, excessive automatic transmission fluid level, excessive oil temperature.

Check Panel display

- A-C. Front side lights
- B-D. Rear side lights
- E. Rear fog lamps

- H-F. Incomplete front door closure
- I-G. Incomplete rear door closure

All device functions are first monitored as described, then DISPLAYED. Display only takes place a few seconds after the engine has been started up however. At this point any defects (or open doors) are identified by the lighting of the corresponding LED and the general RED Check Panel warning light on the control panel.

NOTE *If oil or coolant levels drop below specified limits, this information is memorised. Once the engine has been started up, the red LED corresponding to the fault and the general RED warning light will both come on for the time that the ignition key is in MARCIA position.*
To turn the lights off you must not only top up the levels but also turn the ignition key to STOP position in order to delete the previously memorised information.