

Landrover V8 Series III

Multi Alarm Engineering Change Instruction

General

1. Introduction. Early production V8 LandRovers were brought into service without a multi alarm warning system. The purpose of this instruction is to detail the procedure to be followed when carrying out the initial fitting of the multi alarm.

2. Estimated Manhours to Perform. 3 hours.

3. Priority. Group 2.

4. Modification to be Applied to. All LandRover V8 Series III not currently fitted with a multi alarm.

5. Item Affected. Radiator and centre dash panel.

6. Action Required. Supporting RNZEME workshops are to action this modification when the vehicle is next in for repair.

7. Drawings Required. All required drawings are included in this instruction.

8. Stores Required. The stores required are listed at Table 1.

Table 1 — Stores Required

Item	NSN	Designation	Qty
1	6620-98-107-7700	DISPLAY UNIT	1
2	6620-98-107-7672	BUZZER	1
3	6680-98-204-1631	SWITCH LIQUID LEVEL	1
4	6145-98-105-6787	WIRE ELECTRICAL RED	1.4 m
5	6145-98-105-6742	WIRE ELECTRICAL WHITE	1.4 m
6	6145-98-105-6781	WIRE ELECTRICAL GREEN	2.8 m
7	6145-98-104-6846	WIRE ELECTRICAL PURPLE	2.8 m
8	6145-98-105-6783	WIRE ELECTRICAL BROWN	1.4 m
9	6145-98-103-5511	WIRE ELECTRICAL BLACK	380 mm
10	5940-98-854-2360	TERMINAL SNAP ON CONNECTOR CA 560	3
11	5940-98-107-9113	TERMINAL UTILUX C 124	1
12	5940-98-855-5179	TERMINAL FEMALE SPACE CA 145	2

9. Stores Removed. Nil.

Detail

10. Special Tools, Jigs and Fixtures Required.
63.5 mm hole saw.

11. Modification Procedure. The modification is to be actioned as follows:

- a. Remove radiator and drill a 5/16" (8 mm) diameter hole in the header tank as shown in Fig 1.

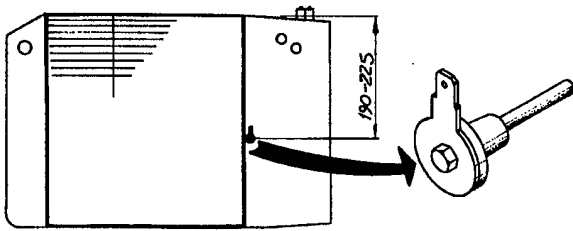


Figure 1 — Low Water Sensor

- b. Fit low water sensor, item 3, into radiator and tighten to achieve a water tight seal.
- c. Refit radiator and refill cooling system with coolant.
- d. Remove centre dash panel and remove hazard light from its mounting hole.
- e. With the 2½ inch hole saw enlarge the existing hazard switch hole to accommodate the display unit, as per Fig 2.

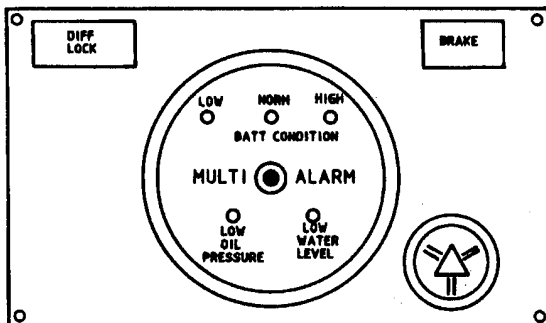


Figure 2 — Centre Dash Panel

- f. Reposition hazard light switch as per Fig 2.
- g. Using electrical cables, items 4 to 9, manufacture a wiring harness as per Fig 3.

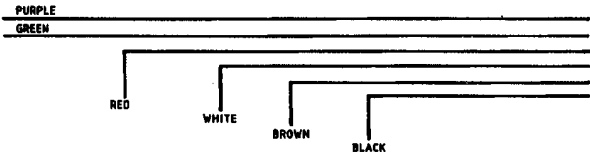


Figure 3 — Wiring Harness

- h. Mount the buzzer, item 2, onto the back of the centre dash and connect wires as per Fig 4.

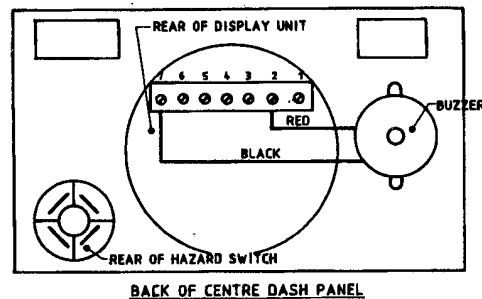


Figure 4 — Back of Centre Dash Panel

- i. With the harness manufactured at para 11 g. wire the components as per wiring diagram Fig 5, using the following procedure:

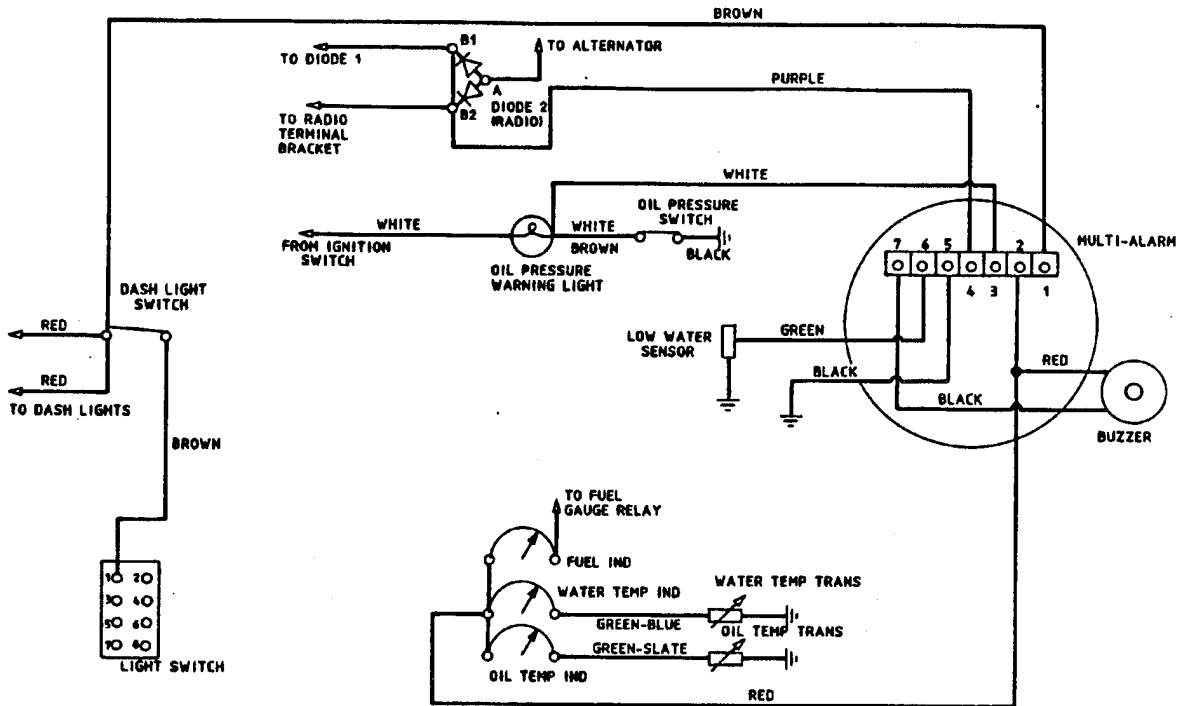


Figure 5 — Wiring Diagram

- (1) Wire harness to back of display unit and connect remaining ends to components as follows:
- (a) Green wire using terminal, item 12, to the low water sensor.
 - (b) Black wire using terminal, item 12, to earth.
 - (c) Purple wire using utilux terminal, item 11, to terminal B2 on radio battery blocking diode.
 - (d) Brown wire using connector, item 10, to switched side of dash lights.
 - (e) White using connector, item 10, to earth side of oil pressure warning light.
 - (f) Red wire using connector, item 10, to feed side of water temperature gauge.

j. Replace dash and check unit for correct operation.

12. Recording of Modification. This modification is to be recorded:

- a. in the Vehicle Record Book (AB 54) as "MOD B 277-26 MULTI ALARM MODIFICATION"; and
- b. as detailed in NZ P98 M 551-3.

13. Financial Detail. Nil.