Cancelled – Ref EMEI Veh A009-1 Issue 9.3, Apr 04

TRUCK UTILITY LIGHTWEIGHT MC2 LANDROVER SERIES III ALL TYPES REWIRING OF HEADLIGHT CIRCUIT

MODIFICATION INSTRUCTION

Issue of this instruction is authorised by CONMEA

Introduction

1. Instances have occurred where the plastic surrounding pins 3 and 4 in the fuse box have melted.

2. This modification details the fitting of a circuit breaker to the headlight circuit to prevent the fuse box melting while the headlights are on for an extended period. This instruction is to be read in conjunction with EMEI VEH G 303-1 and G 307-13.

Note:

1. NSN and Designation used in this instruction were current at the date of issue. If twelve months or more have expired since issue, the NSN should be checked for supersession.

General

3. Estimated Manhours Required. 3.0.

4. Priority. Group 2.

5. Modification to be Applied to. All subject vehicles.

6. Items affected. Fuse block wiring connections, headlight circuit wiring, map reading lamp circuit, blackout switch and auxiliary power wiring.

7. Action Required. By RAEME units authorised to carry out unit, field and base repairs.

8. Stores Removed. Nil.

TABLE 1 - STORES REQUIRED (To be demanded through normal supply channels)

Item	NSN	Designation	Qty per Equip
(a)	(b)	(c)	(d)
1.	5940-01-079-1936	SPLICE CONNECTOR	1
2.	6145-66-102-0462	WIRE ELECTRIC, AUTO CABLE YELLOW, 5MM	As Required
3.	5940-00-617-2433	TERMINAL, CRIMP TYPE	3
4.	5940-66-086-1146	TERMINAL, CRIMP, QUICK DISCONNECT	2
5.	6145-66-018-3952	WIRE, ELECTRIC, AUTO CABLE, BLUE, 3MM	As Required
6.	5970-66-013-1798	SLEEVING 5MM	As Required
7.	5975-66-093-1516	CIRCUIT BREAKER, 12V 15A	1

Detail

> CAUTION:
>
> 1. Wire colourings may vary in some vehicles. Positive identification of wires is important

9. Modification procedure is as follows:

   a. Disconnect the battery.

   b. Disconnect the speedo cable. Remove the instrument panel, fuse box surrounds and blackout switch panel.

   c. Remove the power feed wire (brown wire) from terminal 3 of the fuse box and re-route to terminal 10 of the blackout switch, (terminal 2 of santon type switch). Use items 1 and 2 of Table 1 to lengthen the power feed wire.

   d. Remove the map light wire (blue wire) and auxiliary power feed wire (brown wire) from terminal 10 of the blackout light switch, (terminal 2 of santon type switch) takaing care to remove the correct brown wire.

   e. Identify the brown wire connected between terminal 4 of the fuse box and terminal 10 of the blackout switch (terminal 2 of the santon type switch). Disconnect this wire from terminal 4 and reconnect to terminal 3 of the fuse box.

   f. Using items 4, 5 and 6 of Table 1, join the map light wire and the auxiliary power feed wire and re-route to the fuse box terminal 4.

   g. Mount the circuit breaker (item 7 of Table 1) to the flasher can mounting screw.

   h. Using items 2, 3, 4 and 6 of Table 1, join the positive terminal of the circuit breaker (item 7) to the fuse box terminal 1.

   i. Disconnect the high beam flash feed wire (purple wire) and the headlight feed wire (brown wire) from the fuse box terminal 1 and re-connect both wires to the negative terminal of the circuit breaker (item 7).

   j. Check that the modified wiring corresponds to that shown in Fig 1 and reconnect the battery.

   k. Test the operation of headlights in both normal and blackout modes.

   l. Re-assemble the instrument panel, fuse box surround and blackout switch panel. Re-connect the speedo.

10. Deface numeral 23 on the vehicle modification plate.

KEY TO TERMINATIONS

MOULDED PLUG AND SOCKETS

B EARTH CONNECTIONS VIA CABLES

CLINCH CONNECTIONS

SNAP CONNECTIONS AND/ OR PLUGS AND SOCKETS

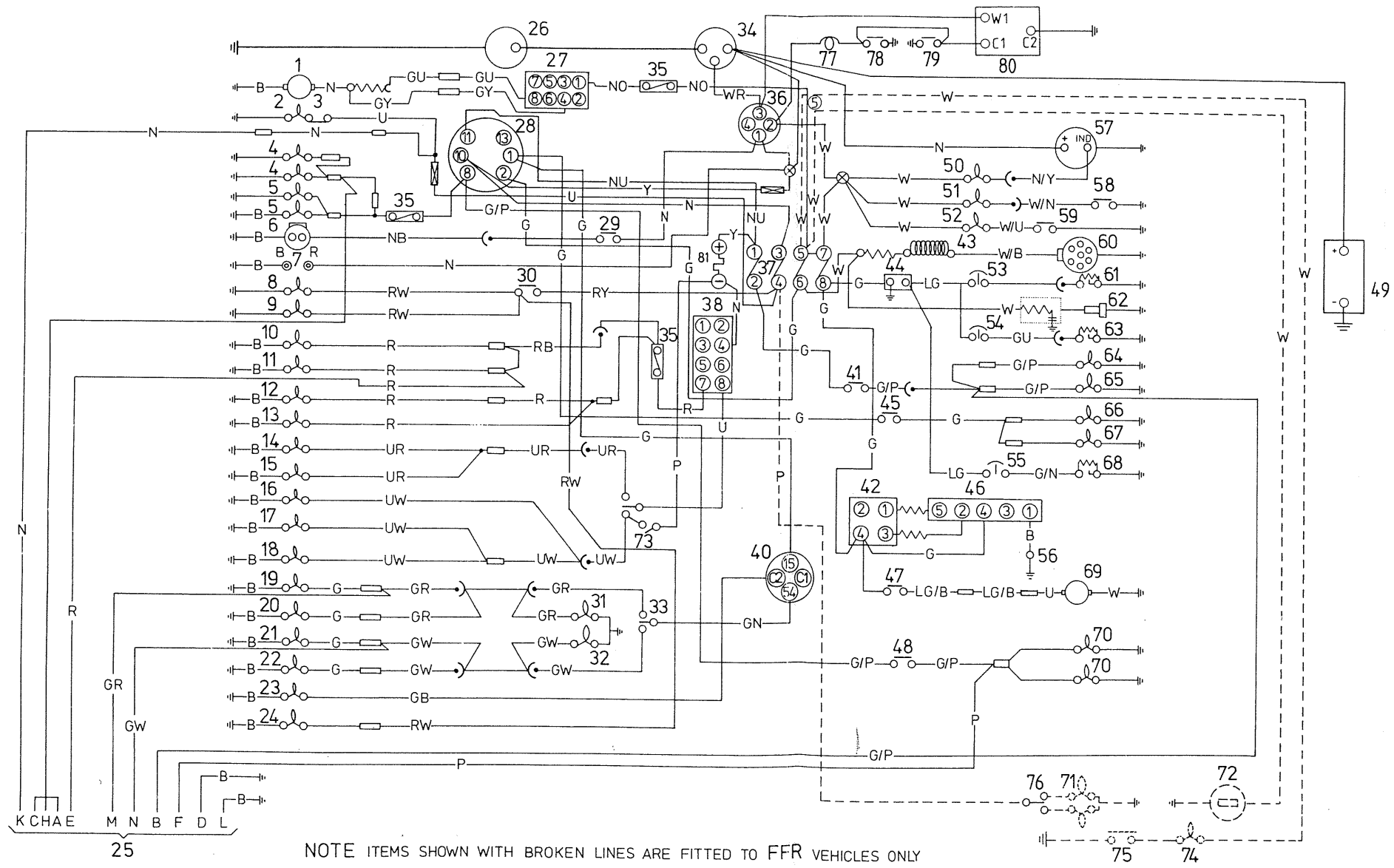
IN LINE CONNECTIONS

EARTH CONNECTIONS VIA FIXING BOLTS

15 AMP (AUST.) IN-LINE FUSE

CIRCUIT BREAKER 15 AMP

B-BLACK D-DARK G-GREEN K-PINK L-LIGHT N-BROWN O-ORANGE
P-PURPLE R-RED S-SLATE U-BLUE W-WHITE Y-YELLOW



KEY TO CIRCUIT DIAGRAM (late models)

1. Blower motor
2. Map reading lamp
3. Switch, map reading
4. Convoy light, rear
5. Blackout lamp, front
6. Horn
7. Inspection sockets
8. Speedo panel, light
9. Instrument group, light
10. Tail lamp, LH
11. Tail lamp, RH
12. Side lamp, LH
13. Side lamp, RH
14. Headlamp, LH dipped beam
15. Headlamp, RH dipped beam
16. Warning light, headlamp main beam
17. Headlamp, LH main beam
18. Headlamp, RH main beam
19. Direction indicator lamp, rear RH
20. Direction indicator lamp, front RH
21. Direction indicator lamp, front LH
22. Direction indicator lamp, rear LH
23. Trailer pilot light
24. Oil temperature gauge, light
25. Nato socket
26. Starter motor, Lucas 2M100
27. Blower switch
28. Blackout switch
29. Horn push switch
30. Switch, panel light
31. Warning light indicator RH
32. Warning light, indicator LH
33. Switch, direction indicators
34. Solenoid, starter motor
35. Fuse, in-line, 15 amp (AUST)
36. Switch, ignition and starter
37. Fuses, 1 to 8, 35 amp (UK) or 15 amp (AUST)
38. Switch, lights
39. Switch, pressure
40. Flasher unit, Hella No 3036
41. Switch, stop lamp
42. Switch, wiper
43. Coil, ignition
44. Stabilizer unit, 10 volt
45. Switch, reverse
46. Screenwiper motor
47. Switch, screenwasher
48. Switch, blackout stop
49. Battery
50. Warning light, ignition
51. Warning light, oil pressure
52. Warning light choke
53. Fuel gauge
54. Water temperature gauge
55. Oil temperature gauge
56. Socket, wiper inhibitor
57. Alternator, Lucas 15 ACR-2D
58. Switch, oil pressure
59. Switch, choke
60. Distributor
61. Fuel tank unit
62. Fuel pump
63. Water temperature transmitter unit
64. Stamp lamp, LH
65. Stop lamp, RH
66. Reversing lamp, RH
67. Reversing lamp, LH
68. Oil temperature transmitter
69. Screenwasher motor
70. Blackout stop lamps
71. Switch/lamp, Cargo (FFR)
72. Hourmeter (FFR)
73. Headlight dip switch
74. Handbrake warning light
75. Switch handbrake warning light
76. Switch radio of light
77. Brake fail light
78. Brake fluid switch
79. Brake vacuum switch
80. Brake fail relay
81. Circuit breaker 15 amp (headlights)

FIG 1 - CIRCUIT DIAGRAM OF LANDROVER SERIES 3

E N D

Class 16.0 - Code 4 (MEA 880155)