

NO. 79/Z/4



Recall Campaign Bulletin

SUBJECT:

RECALL CAMPAIGN A457
HEADLAMP MOTOR

MODELS:

1975-78 TR7

March, 1980

Jaguar Rover Triumph Inc. has determined that a defect which relates to motor vehicle safety exists in 1975 through 1978 Triumph TR7 vehicles. The possibility of headlamp motor and/or motor limit switch failure exists due to corrosion, and it will be necessary to inspect (and replace if found unsatisfactory) these items. Also vehicles equipped with five pin wiring harness connector blocks will have improved connector blocks installed, and on 1975 and 1976 vehicles it will be necessary to reposition the headlamp motor harness connectors to the engine bay as a precaution against water and/or road salt contamination.

AFFECTED TR7 V.I.N. RANGES

<u>YEAR</u>	<u>V.I.N. RANGE</u>	<u>MODEL CODE</u>
1975	ACL 1 U - 7248 U	3200
1976	ACL 10001 U - 33924 U	3200
1976	ACL 10001 UA - 33924 UA	3207 (Auto Gearbox)
1976	ACW 1 U - 6173 U	3200
1976	ACW 1 UA - 6173 UA	3207 (Auto Gearbox)
1977	ACW 7001 U - 34000 U	3206
1977	ACW 7001 UA - 34000 UA	3207 (Auto Gearbox)
1978	ACW 40001 U - 44328 U	3206
1978	ACW 40001 UA - 44328 UA	3207 (Auto Gearbox)

ENSURE THAT YOUR PARTS MANAGER RECEIVES A COPY OF THIS BULLETIN

DEALER VEHICLE CAMPAIGN LIST

Enclosed is a "Dealer Campaign List" listing all affected vehicles which, according to our records, were invoiced to you. Use this list as a worksheet and check off each vehicle as it is campaigned.

If a list is not enclosed, then, according to our records you did not receive any of the affected vehicles and this bulletin is for your information.

The occasion may arise where you are asked to perform Recall Campaign work on a vehicle that was not invoiced to you (i.e., transient owner, etc.). In such a case normal recall procedure should be followed.

OWNER NOTIFICATION

Commencing March 24, 1980 (Campaign launch date), all owners of record will be sent Recall notifications by first class mail, together with a letter advising them of this condition. (A copy of the owner's letter is attached). They will be asked to contact their selling dealer or nearest authorized Triumph dealer if more convenient and make an appointment to have their vehicle attended to. They will also be asked to sign and turn over the "Campaign Claim" form to you after the work has been performed.

PARTS INFORMATION

Replacement parts (see list below) will be shipped to you, chargeable, by your Zone/Distributor Office. These parts will arrive at your dealership by the campaign launch date. Reimbursement for labor and parts will be through the normal campaign system. Adequate supplies of "A457" campaign completion labels are enclosed in this bulletin package. Additional quantities of parts and labels may be ordered through your Zone/Distributor.

<u>P/N</u>	<u>DESCRIPTION</u>	<u>QTY/VEHICLE</u>
PKC1287/K	Motor assembly complete with limit switch	As required
AEU1444/K	Limit switch with harness	"
AEU1485/K	Plug Kit	"
AEU1486/K	Sealing Kit (1 per side)	"
RTV1473/K	Sealant (one tube covers three vehicles)	"

NOTE:

PKC1287/K comes with a partial AEU1485/K plug kit. For the purpose of this recall campaign, the partial kit will not be necessary, however these partial kits should be retained as spares, in the event pins become lost or damaged.

CAMPAIGN CLAIMS/REPAIR CODES

Complete the applicable "Campaign Claim" form (see Section 22, Warranty Policy and Procedure Manual 1978-79). Insert in the "Repair Code" box on the "Campaign Claim" form the following repair code/s. Note: Labor allowances are inclusive of all related clerical operations. All parts will be reimbursed at dealer cost plus 25% handling allowance.

<u>Repair Code</u>	<u>Labor Operation/s</u>	<u>P/N + Qty./Veh.</u>	<u>Time Allowance</u>
SC	Check - all parts O.K. - reseal	AEU 1486/K (2) RTV 1473/K (1)	2.00 hrs.
SD	Check - change harness plugs - reseal	AEU 1485/K (2) AEU 1486/K (2) RTV 1473/K (1)	2.50 hrs.
SE	Check - change 1 motor (bolt corroded) - reseal	PKC 1287/K (1) AEU 1486/K (1) RTV 1473/K (1)	1.75 hrs.
SF	Check - change 2 motors (bolts corroded)	PKC 1287/K (2)	1.45 hrs.
SG	Check - change 1 motor (bolt corroded) - change harness plugs - reseal	PKC 1287/K (1) AEU 1485/K (2) AEU 1486/K (1) RTV 1473/K (1)	2.25 hrs.
SH	Check - change 2 motors (bolts corroded) - change harness plugs	PKC 1287/K (2) AEU 1485/K (2)	1.95 hrs.
SJ	Check - change 1 limit switch - reseal	AEU 1444/K (1) AEU 1486/K (2) RTV 1473/K (1)	2.15 hrs.
SK	Check - change 1 motor (bolt corroded) - change one limit switch - reseal	PKC 1287/K (1) AEU 1444/K (1) AEU 1486/K (1) RTV 1473/K (1)	2.20 hrs.
SL	Check - change 1 motor (bolt corroded) - change one limit switch - change harness plugs - reseal	PKC 1287/K (1) AEU 1444/K (1) AEU 1486/K (1) RTV 1473/K (1) AEU 1485/K (2)	2.70 hrs.
SM	Check - change 2 limit switches - reseal	AEU 1444/K (2) AEU 1486/K (2) RTV 1473/K (1)	2.25 hrs.
SN	Check - change 1 limit switch - change harness plugs - reseal	AEU 1444/K (1) AEU 1485/K (2) AEU 1486/K (2) RTV 1473/K (1)	2.65 hrs.

<u>Repair Code</u>	<u>Labor Operation/s</u>	<u>P/N + Qty./Veh.</u>	<u>Time Allowance</u>
SO	Check - change 2 limit switches - change harness plugs - reseal	AEU 1444/K (2) AEU 1485/K (2) AEU 1486/K (2) RTV 1473/K (1)	2.75 hrs.
SP	Check - change 1 motor (water in gearbox) - reseal	PKC 1287/K (1) AEU 1486/K (1) RTV 1473/K (1)	1.85 hrs.
SS	Check - change 2 motors (water in gearbox)	PKC 1287/K (2)	1.70 hrs.
ST	Check - change 1 motor (water in gearbox)- change harness plugs- reseal	PKC 1287/K (1) AEU 1485/K (2) AEU 1486/K (1) RTV 1473/K (1)	2.35 hrs.
SU	Check - change 2 motors (water in gearbox)- change harness plugs	PKC 1287/K (2) AEU 1485/K (2)	2.20 hrs.
SW	Check - change 1 motor (water in gearbox) - change one limit switch - reseal	PKC 1287/K (1) AEU 1444/K (1) AEU 1486/K (1) RTV 1473/K (1)	2.20 hrs.
SX	Check - change 1 motor (water in gearbox) - change one limit switch - change harness plugs - reseal	PKC 1287/K (1) AEU 1444/K (1) AEU 1486/K (1) RTV 1473/K (1) AEU 1485/K (2)	2.70 hrs.

WORKSHOP PROCEDURE

RECALL CAMPAIGN A457

TR7 HEADLAMP MOTOR

PLEASE READ THOROUGHLY PRIOR TO COMMENCING WORK

AFFECTED TR7 V.I.N. RANGES

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1975	ACL 1 U - 7248 U	3200
1976	ACL 10001 U - 33924 U	3200
1976	ACL 1001 UA - 33924 UA	3207 (automatic transmission)
1976	ACW 1 U - 6173 U	3200
1976	ACW 1 UA - 6173 UA	3207 (automatic transmission)
1977	ACW 7001 U - 34,000 U	3206
1977	ACW 7001 UA - 34,000 UA	3207 (automatic transmission)
1978	ACW 40001 U - 44,328 U	3206
1978	ACW 40001 UA - 44,328 UA	3207 (automatic transmission)

NOTES

Soldering iron and related material required for harness plug change. Actuator motors having a 5 pin round plug and socket connection or where the harness sleeve has been sealed into the switch box will require rework.

On units where the cable sleeve is clamped by a plastic harness clip to the switch box cover (see Figure 3) and the cables terminate in two single and one triple connector, no action is required.

REMOVAL OF HEADLAMP/ACTUATOR MOTOR ASSEMBLY

1. Raise the headlamps, by operating the headlamp switch.
2. Lift hood and disconnect battery.
3. Should either motor fail to operate, ensure that battery is disconnected, then raise the affected lamp by operating the manual override i.e., rotate knob on the end of the actuator motor. (Figure 1 (3)).
4. Disconnect harness plugs to actuator motors and headlamps on both sides of the vehicle and feed the leads back through the body grommets from the engine bay.
5. Mark outline of the headlamp/actuator motor assembly fixing plates on the radiator closing panels, to ensure correct alignment of refitting.
6. Remove nuts and plates securing headlamp/actuator assemblies to the radiator closing panels and carefully lift each complete assembly out through the headlamp apertures.
7. Place assembly on bench. Remove circlip from actuator rotary crank pin and disconnect adjuster link. (Figure 2 (19)).

8. Remove the 3 fixing screws (Figure 2 (8)) and 7/16" nut (Figure 2 (8A)) holding operating link to motor. Remove wire clip and retain. Lift motor from frame.
9. Clean the motor using a damp cloth.
10. Remove and examine one motor lower through bolt (9/32" nut runner) Figure 1 (10). If the bolt shank or thread show any sign of corrosion or motor overheating, (signs of lacquer) replace the complete actuator motor (kit number PKC 1287 K). If it is satisfactory, re-fit bolt to 20 lb ins. torque.
11. If there is evidence of overheating of the motor, check and rectify headlamp lifting assembly to ensure free movement of mechanism before proceeding further. (Figure 2 (11)).

INSPECTION OF LIMIT SWITCH

12. Remove the 5 cover fixing screws, (5/16" nut runner), top cover, liner and foam gasket. (Retain top cover and screws for reassembly). (Figure 1 (12)).

INSPECTION INSIDE LIMIT SWITCH FOR THE FOLLOWING POINTS:

13. Check for evidence of corrosion i.e., green deposits (verdigris) on copper strips and rivet heads.
 - (i) If there is NO corrosion present, carry out operation 14(e) onwards.
 - (ii) If corrosion IS present the limit switch must be replaced using the following procedure.

LIMIT SWITCH CHANGE

14. Lift out and disconnect the red and blue motor leads from the
 - (a) switch assembly. Remove the 6th screw and lift the switch assembly from the motor gearbox. (Figure 1 (14a)).
 - (b) If water has entered the gearbox the complete motor must be replaced.
 - (c) If gearbox is satisfactory, wipe the mating surface of the gearbox with a cloth moistened with a degreasing agent and fit a new limit switch. (Kit number AEU 1444 K plus plug and sealing kit as required).
 - (d) Reconnect the red motor lead to the red/light green switch lead and the blue motor lead to the black/light green switch lead and install them in the small rectangular compartment in the base of the switch box. (The following instructions also apply if the existing limit switch is retained).
 - (e) Ensure the harness sleeve is withdrawn from the cable entry point by approximately 1". Ensure that on entering the switch box, the two motor leads lie side by side in the small slot in the bottom of the cable entry point, and complete by fitting the small foam pad neatly on top. (Sealing Kit Part Number AEU 1486 K).

The remaining 5 leads are then placed side by side on top of the small foam pad followed by the large foam pad, the liner and the original top cover. The original screws are then used to secure the top plate and harness clip mounted adjacent to the cable entry position. (See Figure Number 3).

15. Test unit, either on a test set, or by plugging into the vehicle and temporarily reconnecting the battery.
16. Completely seal unit around all disturbed joints, through bolt heads and threads also at cable entry area using sealant Part Number RTV 1473/K, and allowing to touch dry. One tube sufficient to do three (3) vehicles.

HARNES CHECK

17. If the switch harness and/or main harness are terminated by a 5 pin connector it/they must be converted as follows:-

Where possible withdraw the main harness through the grommet in the closing panel into the engine bay. (See Figure 4).

SWITCH AND MAIN HARNES CONNECTORS

Discard the original harness 5 pin connector blocks by cutting the cables as close to the blocks as possible. Strip back the cable insulation approximately 1/4" (6mm) on each lead and solder 3mm pins, and then fit sockets. (Kit Part Number AEU 1485 K). (See Figure 5 for alternative color code wiring connections).

18. Feed the light unit and actuator motor leads through the grommet in the closing panel, where possible, into the engine bay, reconnect and test.
19. Refit motor to headlamp frame and reconnect rotary crank pin, circlip and operating link. (Apply trace of grease to pin before reassembly.)
20. Carefully refit assembly to vehicle and secure with fixing plates and nuts ensuring fixing plates are aligned with scribed outline marks on radiator closing panel.
21. Reconnect headlamp connectors.
22. Reconnect battery and test for correct operation.
23. Check alignment of headlamps.
24. Affix red "A457" completion label to top of left hand spring tower. Ensure that your Zone/Distributor-Dealer number is clearly written in the spaces provided on the label. For proper adhesion, wipe area with a clean rag prior to affixing label.

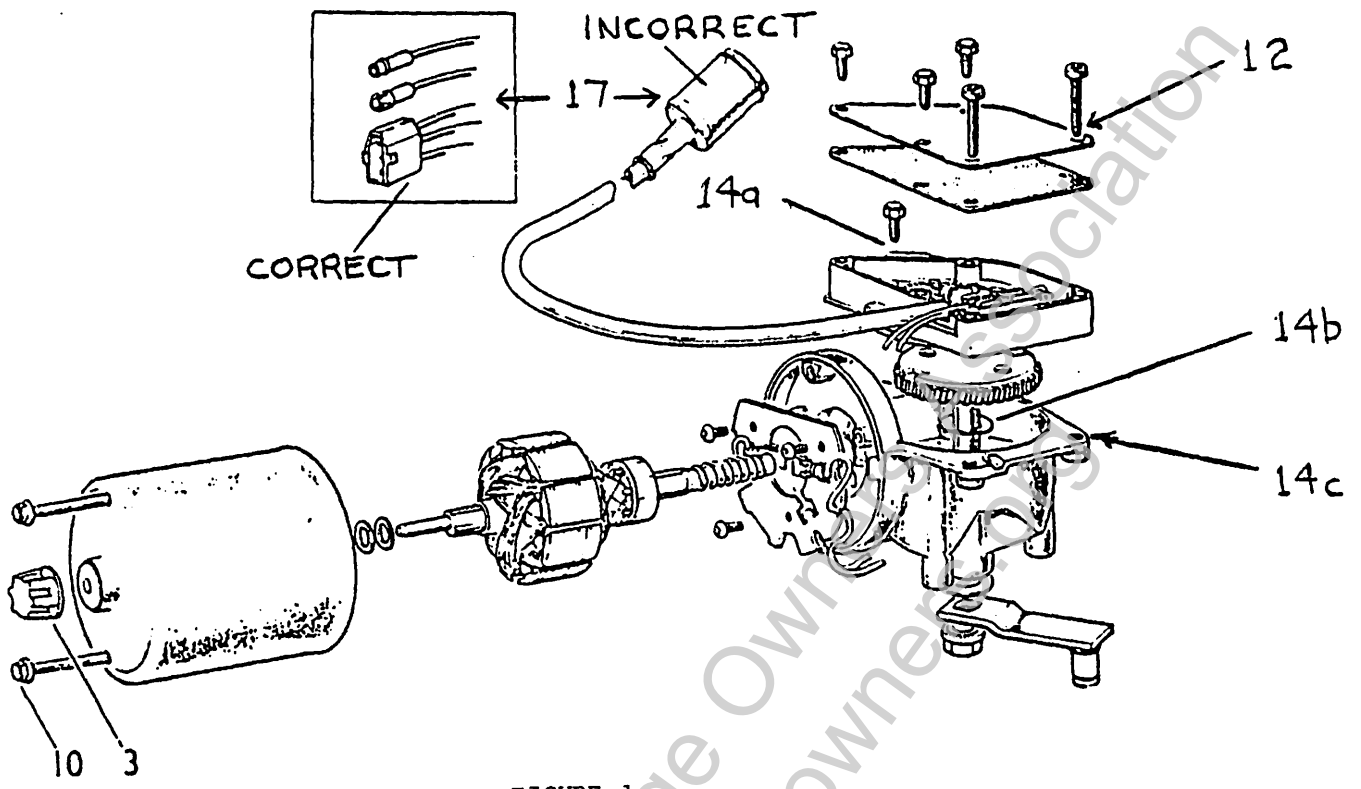


FIGURE 1.

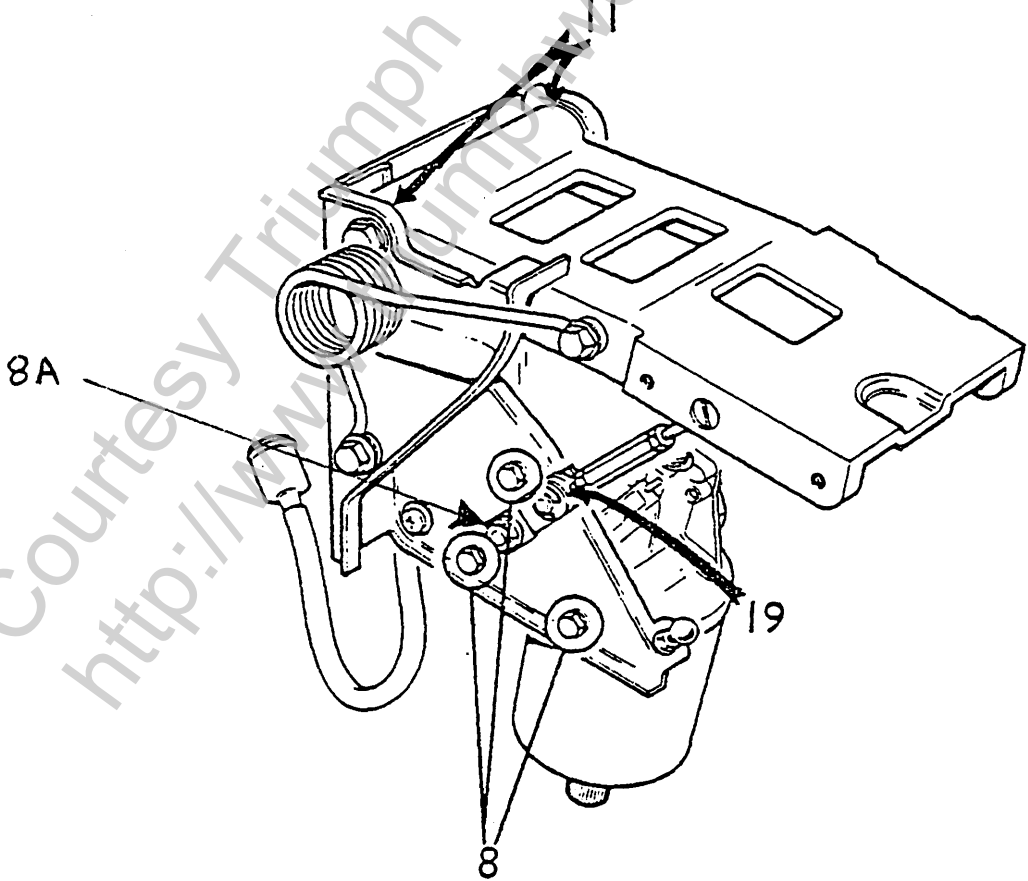


FIGURE 2.

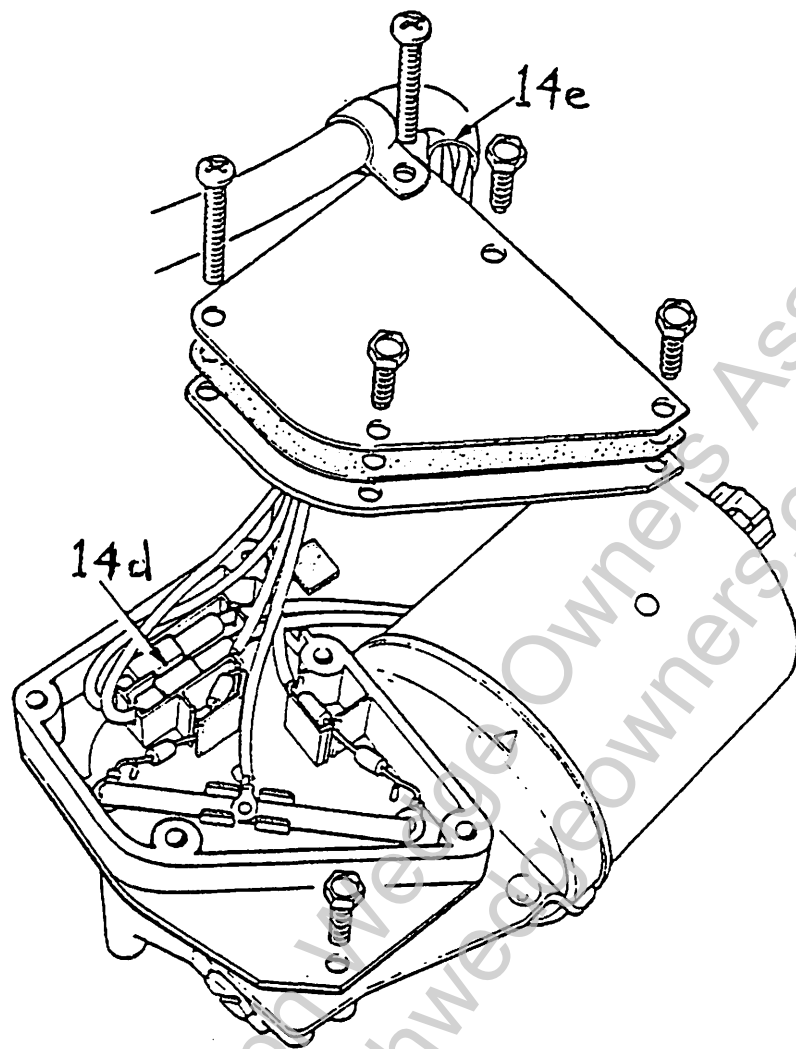


FIGURE 3.

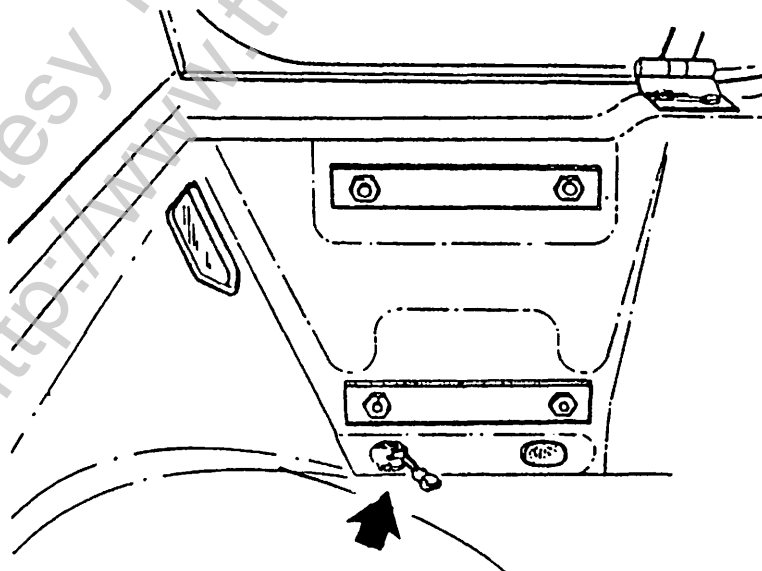
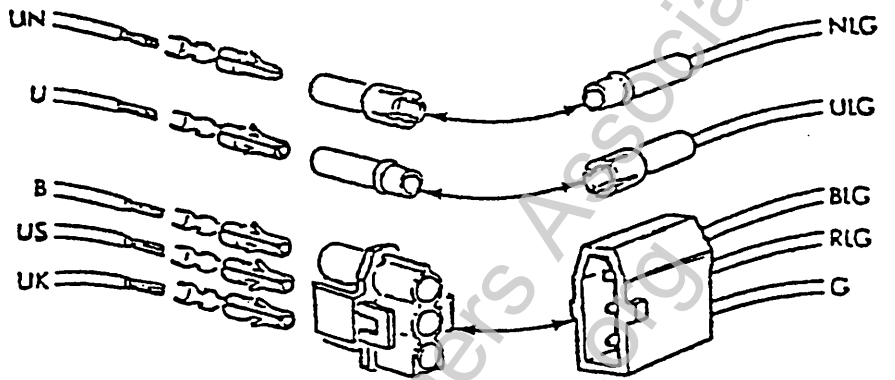


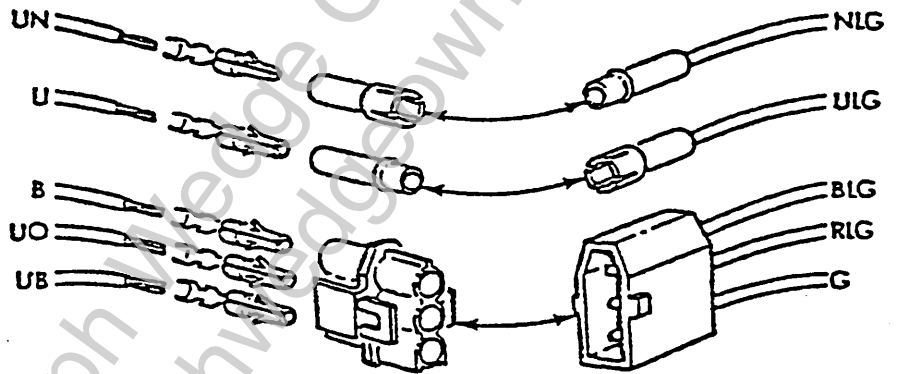
FIGURE 4.

FIGURE 5.

(i) TR7 1974-MID 1977
LH CABLE LOOM



(ii) TR7 1974-MID 1977
RH CABLE LOOM



iii) RH CABLE LOOM
ALTERNATIVE
CABLE COLOURS

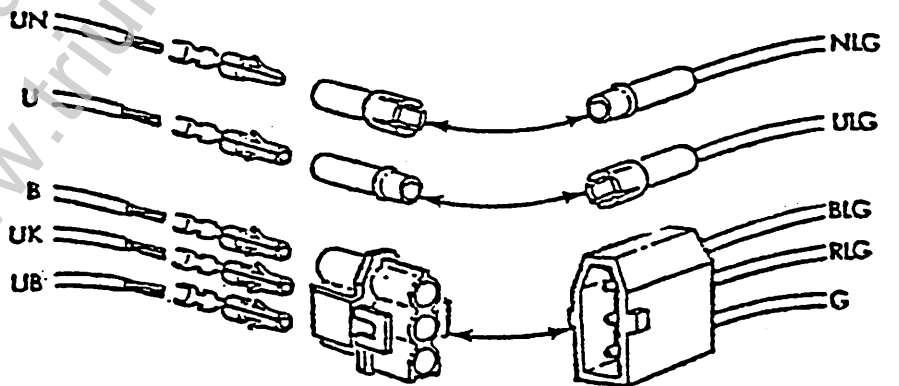


FIG. 2 ALTERNATIVE WIRING CONNECTIONS.

CABLE COLOUR CODE

B	BLACK	LG	LIGHT GREEN	R	RED
G	GREEN	N	BROWN	S	SLATE
K	PINK	O	ORANGE	U	BLUE