



Rover 3500 & 3500S Repair Operations Manual AKM3621

December 2017

Dear Member

Since completing the project to scan the original Rover P6 factory manuals back in 2014, it has come to light that a small number of pages in the master copy of the above manual are blank.

There are eight affected pages, all from the ELECTRICAL section dealing with the following:-

- Distributor Overhaul
- Exterior lights
- Interior and panel lights

Please find herein the missing pages and accept our sincere apologies for any inconvenience caused.

Pat McWiggin

The Rover P6 Club

DISTRIBUTOR

—Overhaul

86.35.26

NOTE: Two slightly varying designs of distributor are in use, the first two illustrations show the early type, the third illustration shows the latest, concentric base plate, type.

Dismantling

1. Remove the distributor. 86.35.20.
2. Unclip and remove distributor cap.
3. Withdraw rotor arm and felt lubricating pad.
4. Remove contact spring and lift off the insulating bush together with the low tension and capacitor leads.
5. Lift off the moving contact point and the insulating washer from the contact pivot and spring post.
6. Remove the capacitor.
7. Remove the fixed contact.
8. Early type distributor—Remove the nut, plain washer and spring from the contact breaker base plate pivot pin.
9. Remove the dwell angle adjuster screw and spring.
10. Remove the earth lead from the centrifugal advance cover plate.
11. Remove the contact breaker base plate.
12. Remove the vacuum unit and grommet.
13. Remove the centrifugal advance cover plate.
14. Carefully withdraw the two springs from the centrifugal advance unit.
15. Remove the screw from inside the cam and lift off the cam and cam foot.
16. Remove the two weights.
17. Drive out the pin securing the driving gear and remove the gear and tab washer.

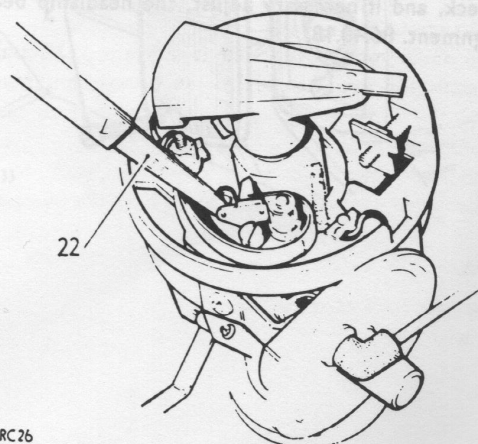
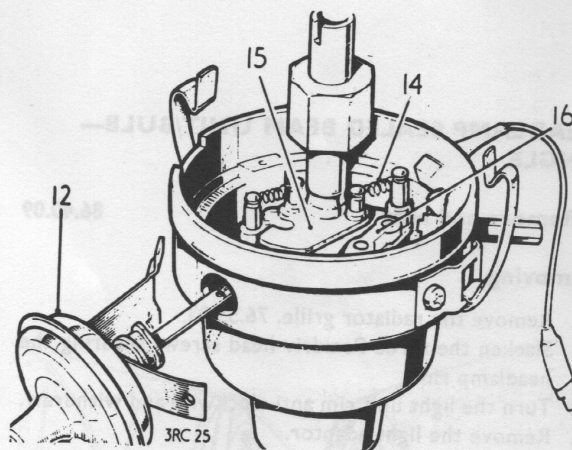
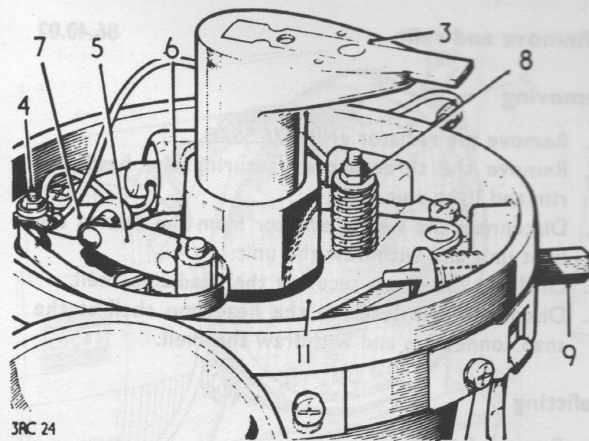
Inspecting

18. Check all parts for wear or damage and replace as necessary.
19. Obtain a new contact points set.

Reassembling

20. Reverse 1 to 17, including the following.
21. When fitting the centrifugal governor springs, take care not to stretch them.
22. When fully assembled the points can be set to a clearance of 0.35 to 0.40 mm (0.014 to 0.016 in) as an initial guide before refitting to the engine.
23. Refit the distributor. 86.35.26.

NOTE: It is most important that the dwell angle is adjusted to 26° to 28° using specialised equipment, when the distributor has been refitted.



ELECTRICAL

HEADLAMP ASSEMBLY—SINGLE

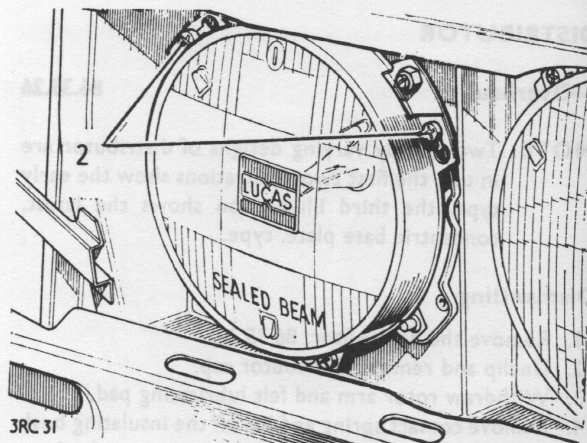
—Remove and refit **86.40.02**

Removing

1. Remove the radiator grille. 76.55.03.
2. Remove the three screws securing the headlamp rim and light unit.
3. Disconnect the wiring adaptor from the rear of the light unit and withdraw the unit.
4. Drill out the rivets securing the headlamp shell.
5. Disconnect the leads to the headlamp shell at the snap connectors and withdraw the shell.

Refitting

6. Reverse 1 to 5.
7. Check, and if necessary adjust, the headlamp beam alignment. 86.40.18.



HEADLAMP SEALED BEAM UNIT/BULB—SINGLE

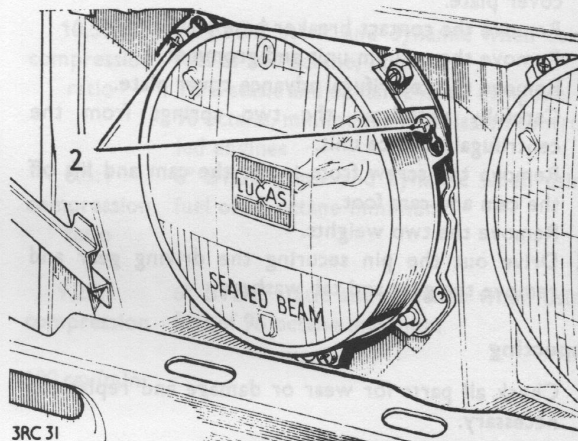
—Remove and refit **86.40.09**

Removing

1. Remove the radiator grille. 76.55.03.
2. Slacken the three Pozidriv head screws securing the headlamp rim.
3. Turn the light unit rim anti-clockwise and withdraw.
4. Remove the light adaptor.

Refitting

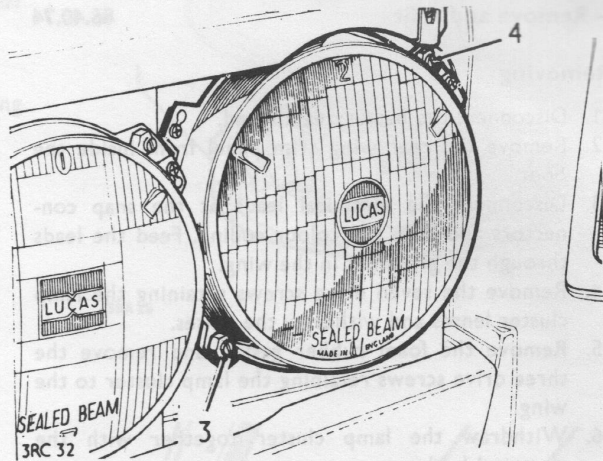
5. Fit a new light unit or bulb to the adaptor.
6. Reverse 1 to 3.
7. Check, and if necessary adjust, the headlamp beam alignment. 86.40.18.



HEADLAMPS—FOUR

—Align beams 86.40.18

NOTE: The setting of the pair of twin-beam head lights necessitates the use of a meter such as the Lucas Lev-L-Lite mechanical aimer for curved glass lenses, or Lucas 'Beamsetter' for flat glass lenses. The method used for setting single beam headlamps is unsatisfactory. When using the Lucas Lev-L-Lite beam setting device, it is very important that the device is set to zero before adjustment is carried out on the headlamps. Instructions for setting are supplied with the setting equipment. With the device set correctly the headlamps will be set as follows:

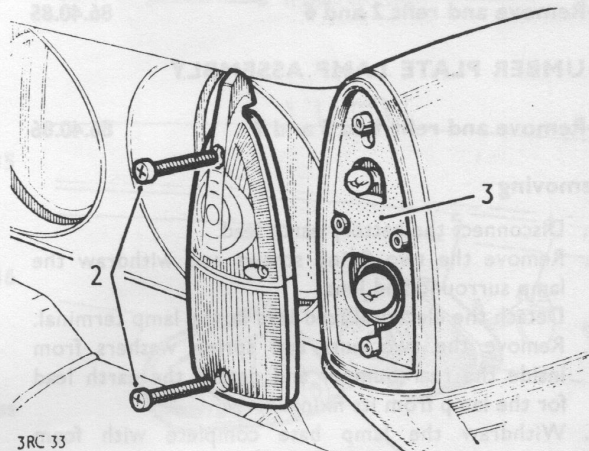
**Aligning**

1. Check that the car is level and in the static unladen condition (no driver or passengers).
2. Check the main beam and dip beam which should be two divisions down from the vertical.
3. If necessary, align the headlamps by means of the headlamp horizontal adjusting screw.
4. If necessary, align the headlamps by means of the headlamp vertical adjusting screw.

FRONT SIDE/FLASHER LAMP ASSEMBLY

—Remove and refit 86.40.26**Removing**

1. Disconnect the battery earth lead.
2. Remove the four Phillips head screws securing the lamp glass to the lamp body.
3. Remove the foam rubber seal.
4. Remove the three screws securing the lamp body to the front wing.
5. Withdraw the lamp and disconnect the wiring from the three-way connector.

**Refitting**

6. Reverse 1 to 5.



ELECTRICAL

TAIL, STOP, FLASHER AND REVERSE LAMP ASSEMBLY

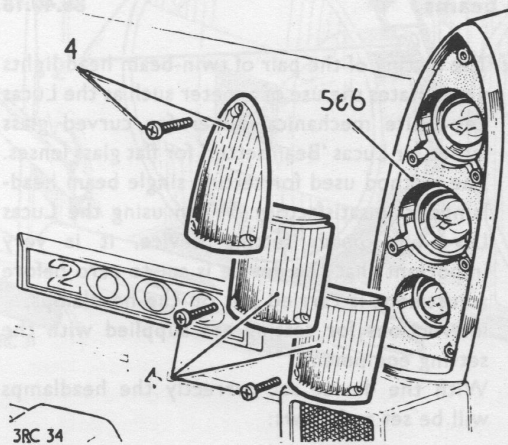
—Remove and refit **86.40.74**

Removing

1. Disconnect the battery earth lead.
2. Remove the rear wing trim panel from inside the boot.
3. Disconnect the electrical leads at the snap connectors and note the colour coding. Feed the leads through the grommet in the wing.
4. Remove the seven drive screws retaining the lamp cluster lenses and withdraw the lenses.
5. Remove the foam rubber gasket and remove the three drive screws retaining the lamp cluster to the wing.
6. Withdraw the lamp cluster together with the electrical leads.

Refitting

7. Reverse 1 to 6.



NUMBER PLATE LAMP BULB

—Remove and refit 2 and 6 **86.40.85**

NUMBER PLATE LAMP ASSEMBLY

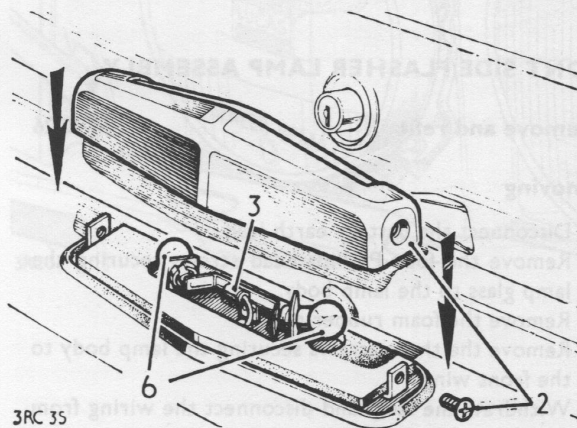
—Remove and refit 1 to 5 and 7 **86.40.86**

Removing

1. Disconnect the battery earth lead.
2. Remove the two fixing screws and withdraw the lamp surround and lens.
3. Detach the electrical feed lead at the lamp terminal.
4. Remove the two nuts and spring washers from inside the rear bumper and detach the earth lead for the lamp from its fixing.
5. Withdraw the lamp base complete with foam rubber joint washer and lamp bulbs from the bumper.

Refitting

6. Fit a new bulb as required.
7. Reverse 1 to 5.

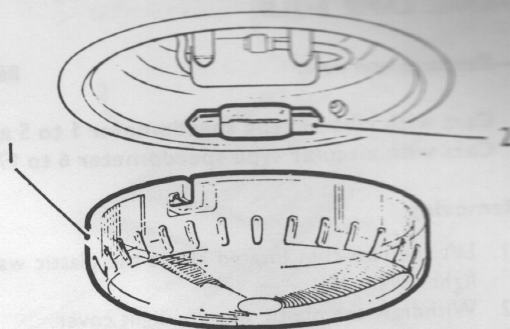


ROOF LAMP BULB**—Remove and refit****86.45.01****Removing**

1. Remove the lens from the courtesy lamp by pressing it upward and turning it anti-clockwise.
2. Withdraw the bulb from its spring clip holder.

Refitting

3. Reverse 1 and 2.



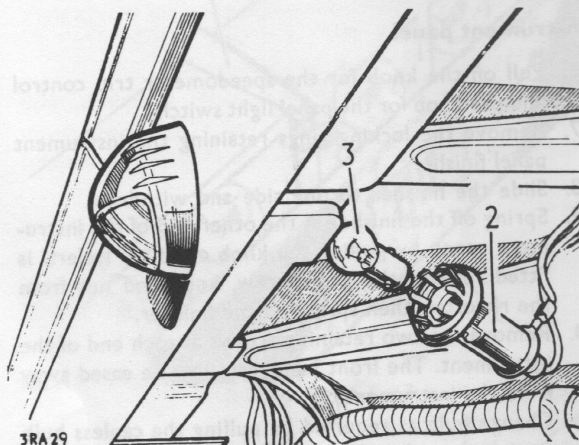
3RA 28

MAP LAMP BULB**—Remove and refit****86.45.09****Removing**

1. Open the glove box.
2. Withdraw the bulb holder and bulb towards the front of the car.
3. Remove the bulb from the holder.

Refitting

4. Reverse 1 to 3.



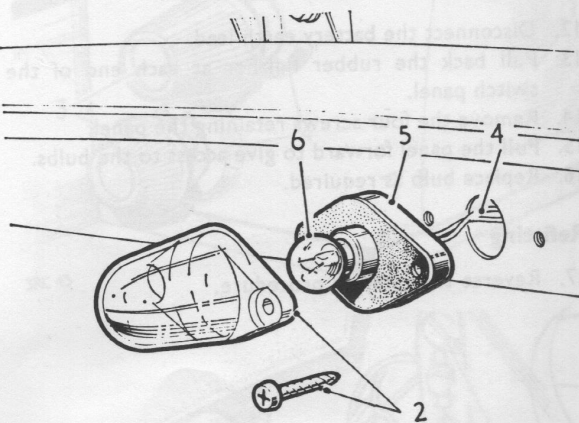
3RA 29

BOOT LAMP BULB**—Remove and refit 2 and 6****86.45.15****BOOT LAMP ASSEMBLY****—Remove and refit 1 to 5 and 7****86.45.16****Removing**

1. Disconnect the battery earth lead.
2. Remove the two screws retaining the lamp glass cover.
3. Remove the rear boot trim panel.
4. Disconnect the lamp electrical leads at the snap connectors and note the colour coding.
5. Withdraw the lamp complete.

Refitting

6. Replace the bulb.
7. Reverse 1 to 5.



3RC 40



ELECTRICAL

PANEL LAMP BULB

—Remove and refit

86.45.31

Cars with ribbon type speedometer 1 to 5 and 17
Cars with circular type speedometer 6 to 17

Removing

1. Lift the two clips located above the plastic warning light cover.
2. Withdraw the plastic warning light cover.
3. Remove the two panel retaining screws.
4. Disconnect the speedometer drive cable, this can be done from inside the glove box.
5. Withdraw the panel, then remove the bulb holder and replace bulb as required.

Instrument panel

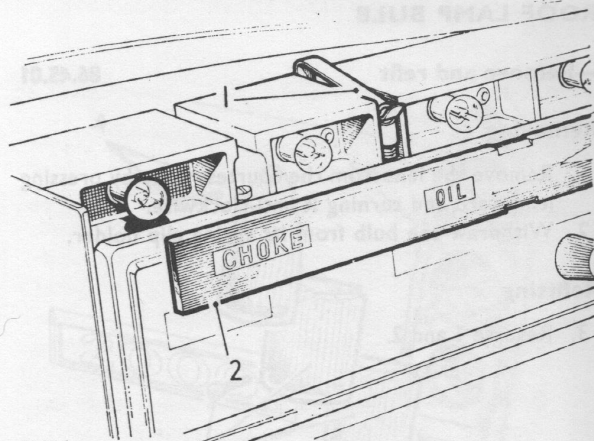
6. Pull off the knob for the speedometer trip control and the knob for the panel light switch.
7. Remove the locking rings retaining the instrument panel finisher.
8. Slide the finisher to one side and withdraw.
9. Spring off the finisher at the other end of the instrument panel, by pulling the knob or, if an 'Icelert' is fitted remove the grub screw, knob and nut from the rheostat, then spring off the finisher.
10. Remove the two retaining screws at each end of the instrument. The front panel can now be eased away from the instruments.
11. Change bulb as required by pulling the capless bulb straight out of the holder.

Switch panel

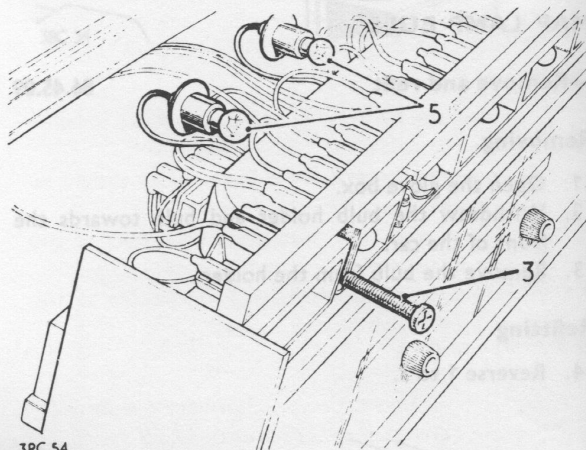
12. Disconnect the battery earth lead.
13. Pull back the rubber finisher at each end of the switch panel.
14. Remove the four screws retaining the panel.
15. Pull the panel forward to give access to the bulbs.
16. Replace bulb as required.

Refitting

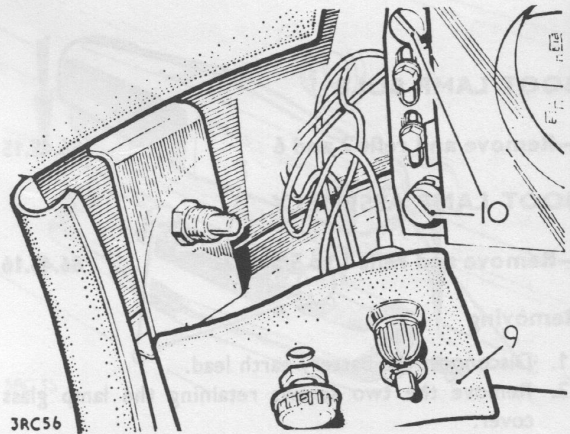
17. Reverse the removal procedure.



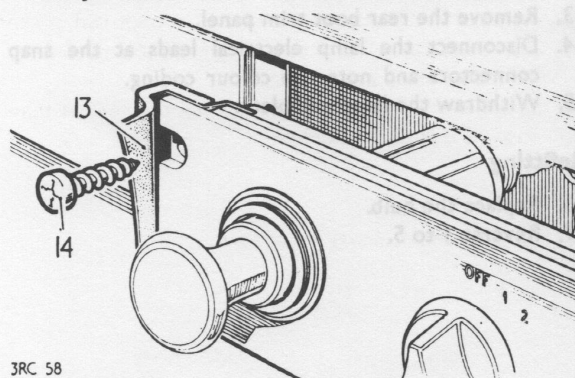
3RC53



3RC54



3RC56



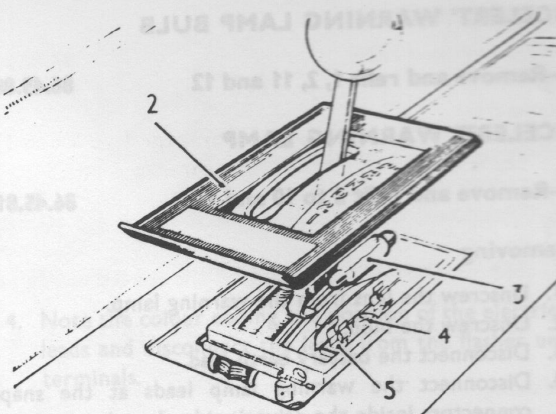
3RC58

AUTOMATIC GEARBOX SELECTOR LAMP BULB—Remove and refit 2, 3 and 6 **86.45.40****AUTOMATIC GEARBOX SELECTOR LAMP**—Remove and refit 1 to 6 **86.45.39****Removing**

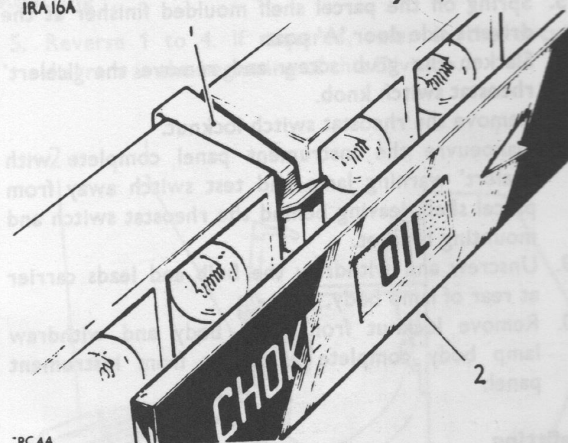
1. Disconnect the battery earth lead.
2. Spring out the indicator plate from the selector lever housing.
3. Remove the illumination bulb from the spring clips.
4. Remove drive screw at the centre of lamp body.
5. Withdraw the lamp body and disconnect the electrical leads at the snap connectors under the transmission tunnel carpet. Note the colour code to facilitate refitting.

Refitting

6. Reverse the removal procedure.



IRA16A



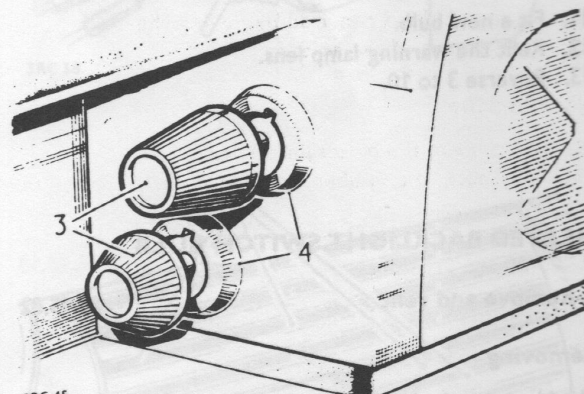
JRC44

WARNING LIGHT BULB—Remove and refit **86.45.61**

Cars with ribbon type speedometer 1, 2 and 9
Cars with circular speedometer 3 to 9

Removing

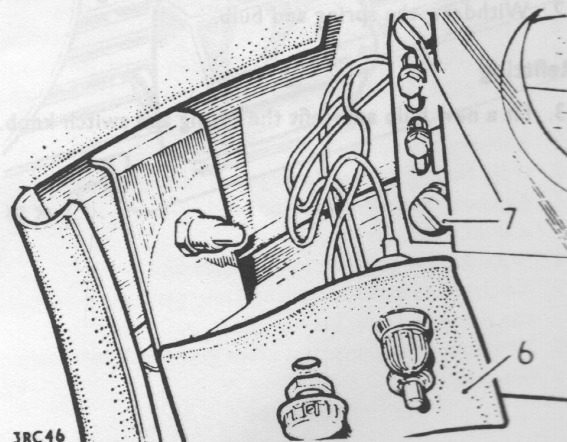
1. Lift the two clips located above the plastic warning light cover.
2. Remove the plastic warning light cover and renew bulb or bulbs as necessary.
3. Pull off the knob for the speedometer trip control and the knob for the panel light switch.
4. Remove the locking rings retaining the instrument panel finisher.
5. Slide the finisher to one side and withdraw.
6. Spring off the finisher, at the other end of the instrument panel, by pulling the knob or, if an 'Ice-lert' is fitted remove the grub-screw, knob and nut from the rheostat then spring off the finisher.
7. Remove the two retaining screws at each end of the instrument panel. Front panel can now be eased away from the instruments.
8. Change bulb as required by pulling the capless bulb straight out of the holder.



JRC45

Refitting

9. Reverse the removal procedure.



JRC46

86.45.40
86.45.61



X ELECTRICAL

'ICEPERT' WARNING LAMP BULB

—Remove and refit 1, 2, 11 and 12 **86.45.80**

'ICEPERT' WARNING LAMP

—Remove and refit 3 to 10 and 13 **86.45.81**

Removing

1. Unscrew the lens from the warning lamp.
2. Unscrew the bulb.
3. Disconnect the battery earth lead.
4. Disconnect the warning lamp leads at the snap connectors inside the driver's side glove box.
5. Spring off the parcel shelf moulded finisher at the driver's side door 'A' post.
6. Slacken the grub screw and remove the 'Icepert' rheostat switch knob.
7. Remove the rheostat switch locknut.
8. Manoeuvre the instrument panel complete with 'Icepert' warning lamp and test switch away from parcel shelf, leaving behind the rheostat switch and mounting bracket.
9. Unscrew and withdraw the bulb and leads carrier at rear of lamp body.
10. Remove locknut from lamp body and withdraw lamp body complete with lens from instrument panel.

Refitting

11. Fit a new bulb.
12. Refit the warning lamp lens.
13. Reverse 3 to 10.

HEATED BACKLIGHT SWITCH BULB

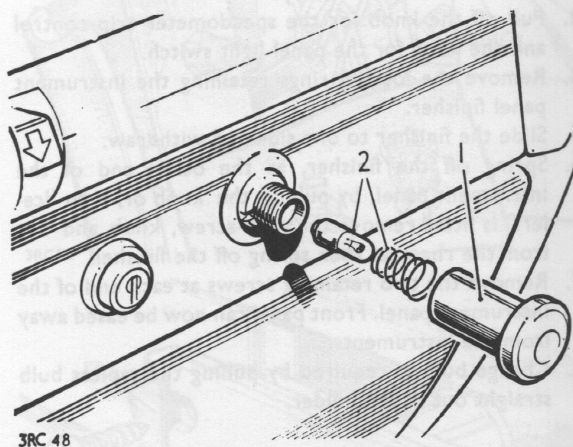
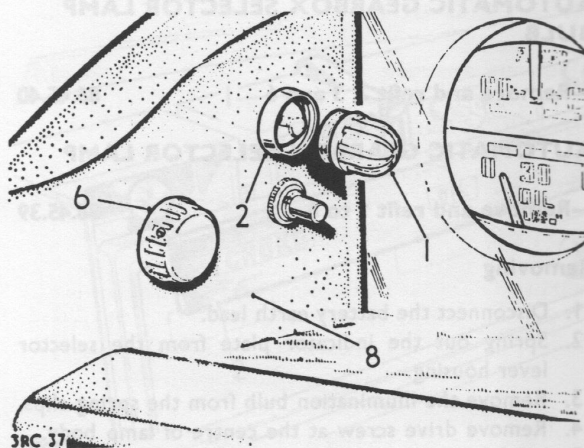
—Remove and refit **86.45.82**

Removing

1. Unscrew the knob from the heated backlight switch.
2. Withdraw the spring and bulb.

Refitting

3. Fit a new bulb and refit the spring and switch knob.



86.45.80
86.45.82

