



SERVICE MANUAL

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GROUP 35

LIGHTING DESCRIPTION



Fig. 3-60. Headlights and foglights

The lighting consists of two full- and dipped-beam headlights, parking lights, rear lights and number plate light. Vehicles intended for U.S.A. are also fitted with side-marker lights and for all markets except U.S.A. the vehicles are fitted with foglights.

The headlights are fitted in the mudguards and the foglights are housed in the front end, see Fig. 3-60. Vehicles delivered to U.S.A. have small grille coverings over the recesses instead of foglights. Extra lights can be installed in these recesses merely by removing the covers.



Fig. 3-61. Rear light

Switching between full- and dipped-beam positions is done by moving the turn indicator lever switch towards the steering wheel. This causes the stop relay (Fig. 3-79) to connect up the lighting. Up front the parking lights are integrally built with the turn indicators and are mounted on the front bumper at the corners.

The rear lights are provided with separate bulbs for rear lights, stop lights, back-up lights and turn indicators, see Fig. 3-61.

REPAIR INSTRUCTIONS

HEADLIGHTS

REPLACING HEADLIGHT INSERT

1. Remove the screw and take off the plastic cover over the space behind the headlight, see Fig. 3-63.
2. Remove the connecting contact by pulling it straight backwards.
3. Remove the outer rim by pulling it upwards-forwards, see Fig. 3-64.
4. Release the screws for the inner rim a couple of turns, see Fig. 3-65, turn the rim and lift it off together with the headlight insert.
5. Remove the rubber cover from the old insert and fit it on the new one.
6. Fit the insert and inner rim. Fit the outer rim by hooking the lower section in the spring wire holders, then lift the rim straight up and hook it on securely.

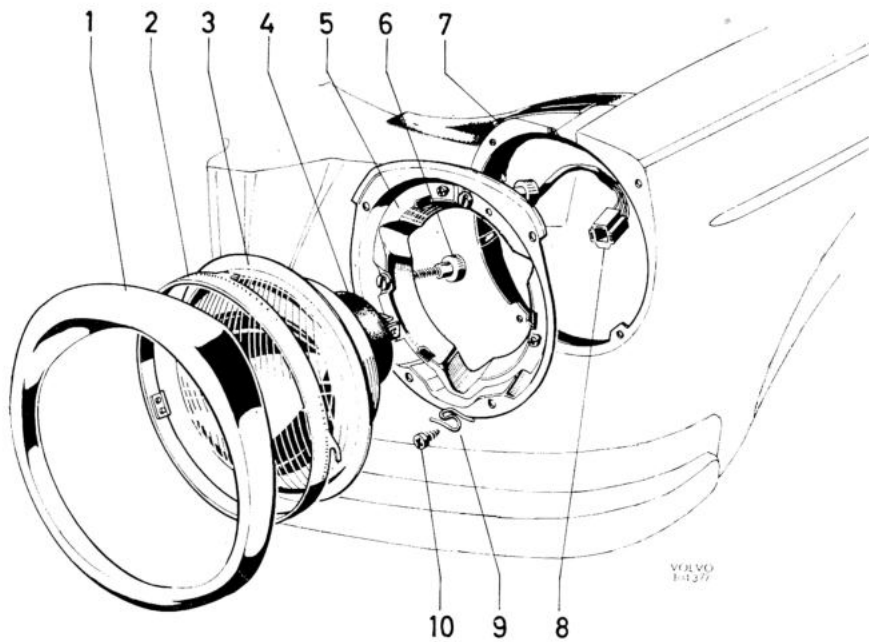


Fig. 3-62. Headlight

1. Outer rim
2. Inner rim
3. Headlight insert
4. Rubber cover
5. Holder unit
6. Adjusting screws
7. Plastic cover
8. Connector
9. Spring wire holder
10. Attaching screw

7. Adjust the light according to current legislation. Adjustment is made by means of the two adjusting screws, see Fig. 3-62. Use approved light adjusting equipment.
8. Fit the plastic cover over the space behind the headlight.

REPLACING THE BULB

1. Remove the screw and take off the plastic cover over the space behind the headlight, see Fig. 3-63.

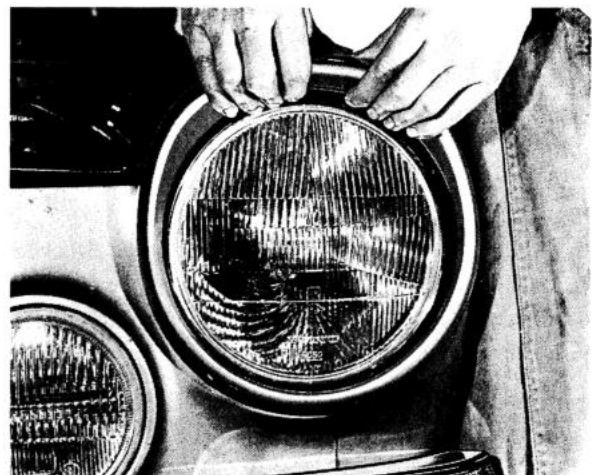


Fig. 3-64. Removing the outer rim

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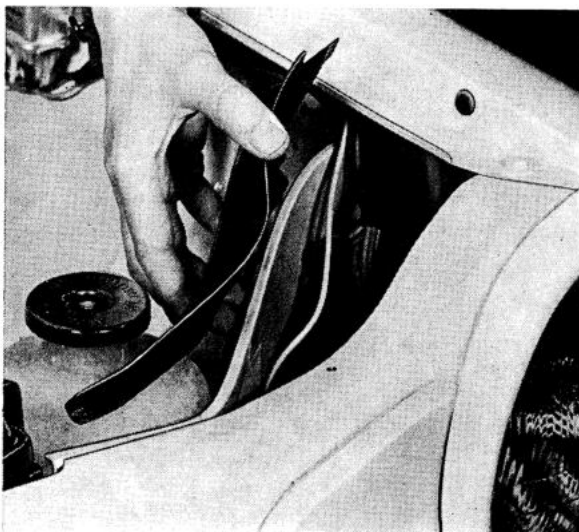


Fig. 3-63. Removing the plastic cover

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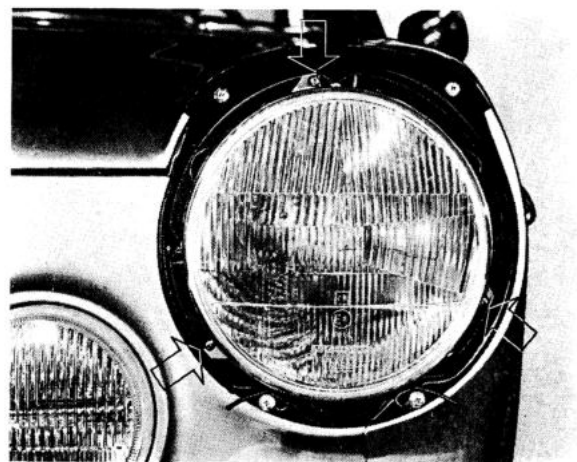


Fig. 3-65. Screws for inner rim

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2. Remove the connector by pulling it straight out backwards.
3. Remove the rubber cover and the spring holding the bulb, pull out the bulb, see Fig. 3-66.
4. Fit the new bulb. Make sure that the bulb collar fits into the socket in the insert.
N.B. Do not touch the bulb globe with your fingers.
5. Fit the spring and rubber cover. Fit the connector.
6. Check the lighting adjustment. This is done by means of the two adjusting screws, see Fig. 3-62.
7. Fit the plastic cover over the space behind the headlight.

CHECKING AND ADJUSTING THE HEADLIGHTS

The condition of the glass, reflector and bulb of the headlight should be checked. If the glass is damaged by flying gravel, cracked or in any other way defective, the insert should be replaced. Glass which has become "sand-blasted" by flying stones, etc., will considerably reduce the lighting effect and can give rise to dazzling, irregular beams, etc.

If the reflector is dull, buckled or damaged in any other way, the insert should be replaced. The inside of the bulb must not be oxidized to a black or brown colour. The lighting effect normally deteriorates to such an extent that the bulbs should be replaced after 100—200 hours of operation.

The voltage at the bulb with the headlights switched on and the engine running at charging speed should be at least 12.5 volts if sufficient lighting strength is to be produced.

The headlights should be adjusted according to current legislation. Approved adjusting equipment should be used for this purpose.

Adjustment is made by varying the two adjusting screws behind the headlight, see Fig. 3-62. The upper screw adjusts the headlight vertically and the screw at the side adjusts the headlight laterally.

FOGLIGHTS

REPLACING THE BULB

1. Remove the screw and take off the plastic casing over the space behind the headlights, see Fig. 3-63.
2. Remove the electric cable to the bulb.
3. Squeeze the holder together and pull it straight out.
4. Take out the bulb.
5. Fit the new bulb. Make sure that it is turned correctly. The bosses on the bulb socket will only fit in the bulb housing if the bulb is fitted correctly.
N.B. Never grasp the bulb globe with your fingers.
6. Fit the holder and electric cables.
7. Check the light setting. To adjust vertically slacken the nut holding the lamp, see Fig. 3-68.
8. Fit the plastic cover.

CHECKING

See "Checking and adjusting the headlights".



Fig. 3-66. Removing the bulb

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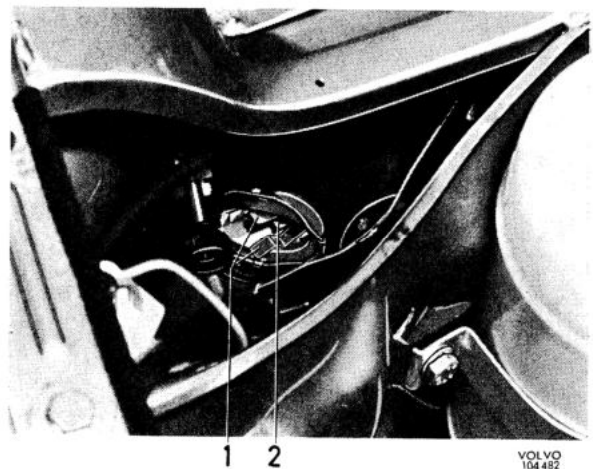


Fig. 3-67. Foglight

1. Holder
2. Bulb electrical connection

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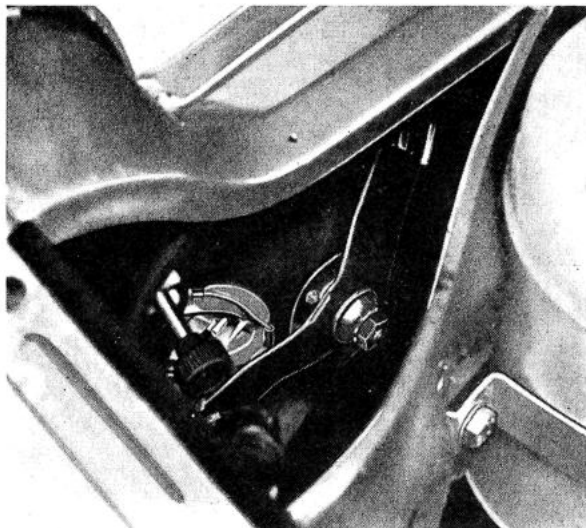


Fig. 3-68. Foglight attachment

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PARKING AND DIRECTIONAL FLASHER LIGHTS

REPLACING THE BULB

1. Remove the screws holding the glass and lift off the glass.
2. Replace the damaged bulb.
N.B. Do not touch the new bulb globe with your fingers.
3. Fit the glass and the screws. Check that the sealing is fitted correctly.

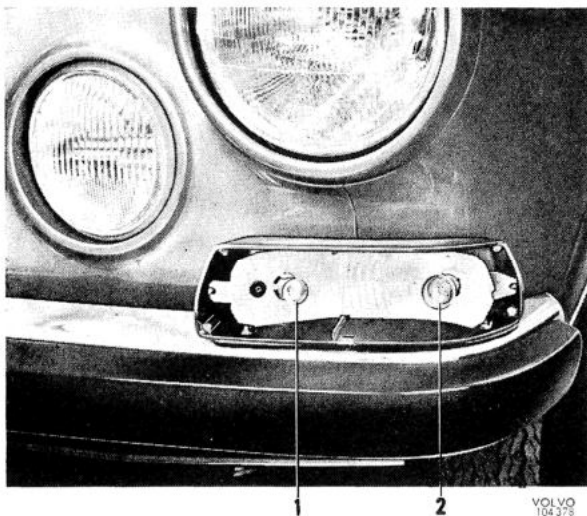


Fig. 3-69. Parking and directional flasher light

1. Bulb for parking light
2. Bulb for directional flasher

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Fig. 3-70. Bulb location in rear light

1. Directional indicator
2. Back-up light
3. Stop light
4. Rear light

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REAR LIGHTS

REPLACING THE BULB

1. Slacken the two screws holding the glass and lift off the glass.
2. Replace the damaged bulb.
N.B. Do not touch the new bulb globe with your fingers.
3. Re-fit the glass and the screws.

LICENSE PLATE LIGHT

REPLACING THE BULB

1. Remove the screw holding the bulb glass.
2. Remove the glass and replace the bulb.
3. Re-fit the glass and the screw. Check that the sealing is fitted correctly.

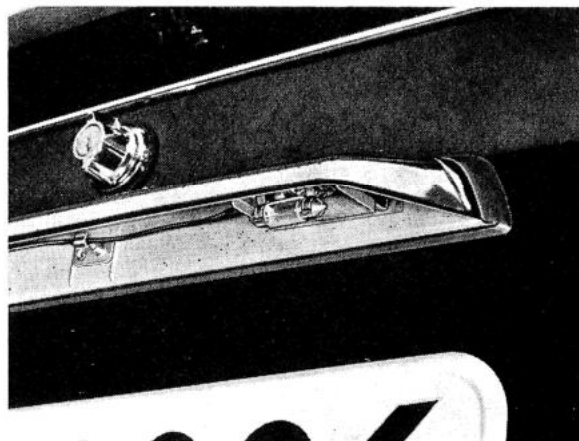


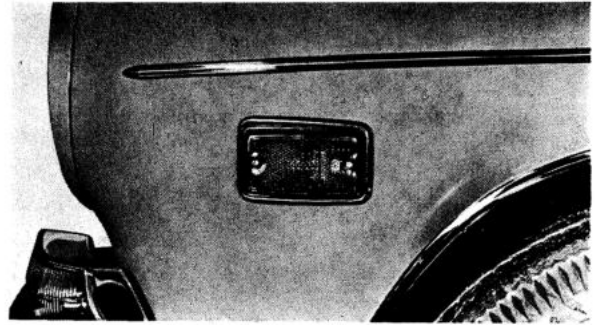
Fig. 3-71. License plate light with bulb glass removed

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SIDE MARKER LIGHTS

Two flasher marking lights are placed on each side of the car.

To replace the bulb, take off the glass. The glass is fitted on the body by means of two screws.



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Fig. 3-72. Side marker light