

GROUP 8

HOOD,
FENDERS,
AND
GRILLE

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8A	Hood Fenders, Grille'.	and 8A-2

HOOD, FENDERS, AND GRILLE

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DESCRIPTION AND OPERATION

DESCRIPTION AND OPERATION OF GT HEADLAMP MECHANISM

The concealed headlamps are moved mechanically. Pushing actuating lever on left side of console opens headlamps, pulling lever closes headlamps. Two meshing gear segments convert the movement of the lever to a rotation of 180 degrees. The pivots of the headlamps lie below the centerline so that with headlamps in closed position the headlamp housing is flush with front sheet metal.

A white indicator lamp in the instrument panel lights if the headlamps are not completely opened and locked. The switches of the headlamp electrical system are located behind the left headlamp operating mechanism.

MAINTENANCE AND ADJUSTMENTS

ADJUSTMENT OF HEADLAMP MECHANISM

Both headlamp assemblies must operate in unison in order to lock in either the open or closed position.

1. Adjust headlamps to be parallel in any position by changing length of right headlamp operating rod. For adjustment loosen clamp bolt (A). See Figure 8A-1.

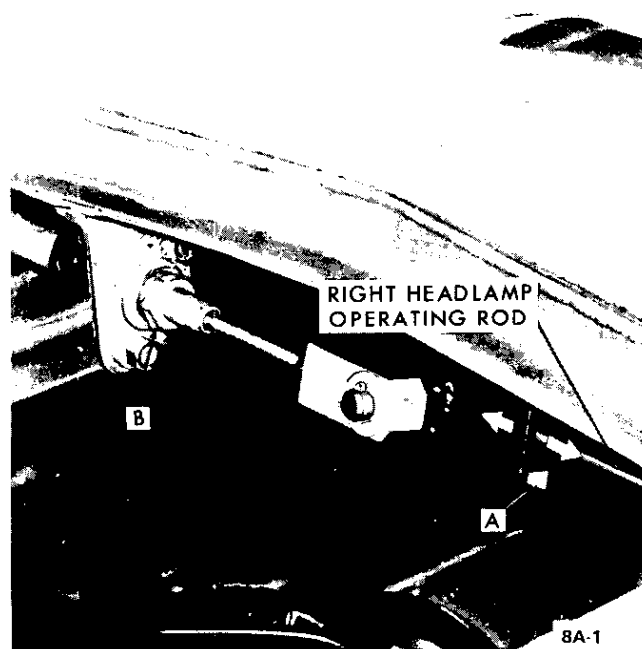


Figure 8A-1 Headlamp Operation Adjustments

2. Adjust headlamps to lock or unlock simultaneously by adjusting lock nut (B). See Figure 8A-1.

3. Adjust headlamp assembly in opening as follows:

a. To align front of assembly vertically or horizontally, loosen bolts indicated (A) in Figure 8A-2.

b. To align front of assembly longitudinally, loosen lock nut (B) in Figure 8A-2 and bolts marked (B) in Figure 8A-3.

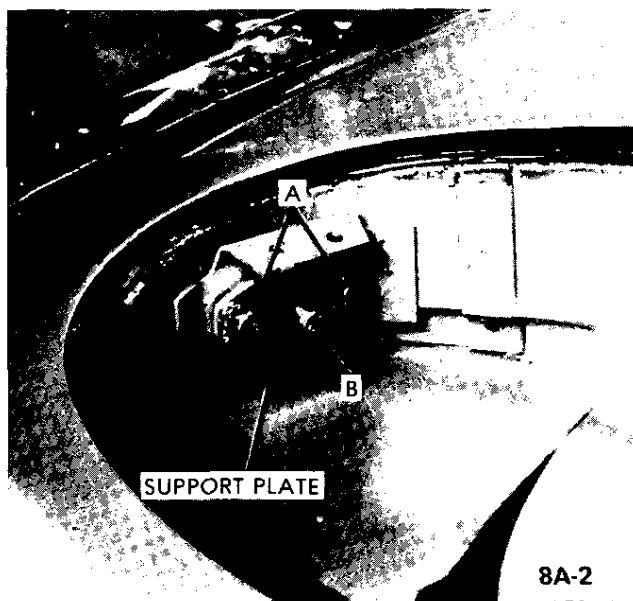


Figure 8A-2 Headlamp Assembly Front Adjustment Location

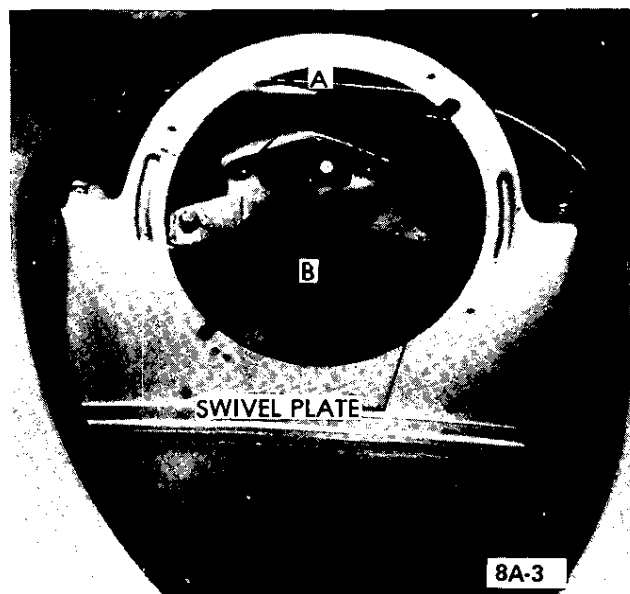


Figure 8A-3 Headlamp Assembly Rear Adjustment Location

c. To align rear of assembly vertically loosen bolts indicated (A) in Figure 8A-3.

MAJOR REPAIR

REMOVAL AND INSTALLATION OF HOOD

1. With a pencil, mark hinge positions on engine hood. See Figure 8A-4.



Figure 8A-4 Marking Hinge Position

2. Unscrew engine hood bolts from hinges. Hood must be aligned so that the distances to the adjacent surfaces are almost equal all around.

REMOVAL AND INSTALLATION OF FENDER (OPEL 1900. MANTA)

1. Remove and install front bumper.
2. Remove and install radiator grille.
3. Remove and install headlamp covering.
4. Remove and install side panel trim pad.
5. Remove and install hood catch.
6. Remove and install rubber bumper (hood rest).
7. If required, remove and install direction signal lamp.
8. Unscrew attaching bolts at fender circumference and remove fender. See Figure 8A-5.

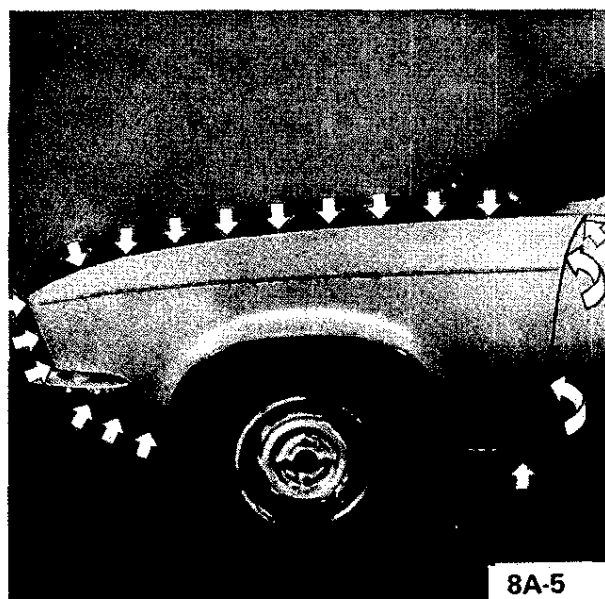


Figure 8A-5 Location of Fender Attaching Bolts

9. Fit new fender **and** apply a sealing compound, as required, to joint. See Figure 8A-6.

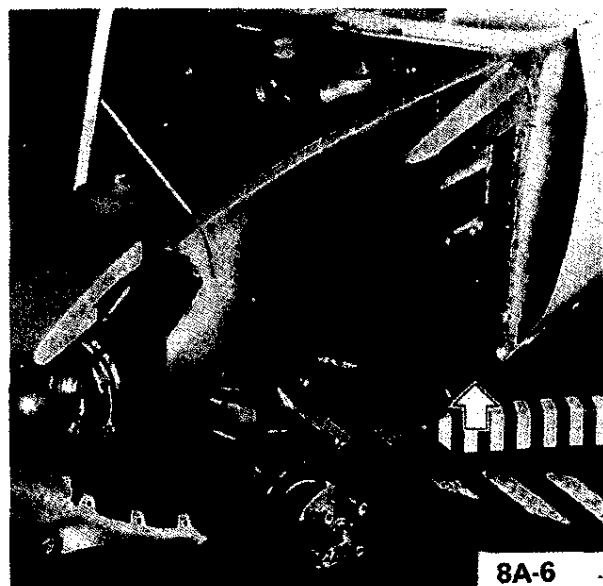


Figure 8A-6 Sealing Location

10. Coat fender inside with a dampening compound.

REMOVAL AND INSTALLATION OF HEADLAMP COVERING (OPEL 1900 - MANTA)

Removal

1. Remove radiator grille.

2. In engine compartment unscrew headlamp covering. See Figure 8A-7.



Figure 8A-7 Headlamp Covering Attaching Bolts

Installation

1. Install headlamp covering. See Figure 8A-7.
2. Install radiator grille.

REMOVAL AND INSTALLATION OF HEADLAMP ASSEMBLY (GT)

1. Move headlamp to open position and remove headlamp cover. See Figure 8A-8.

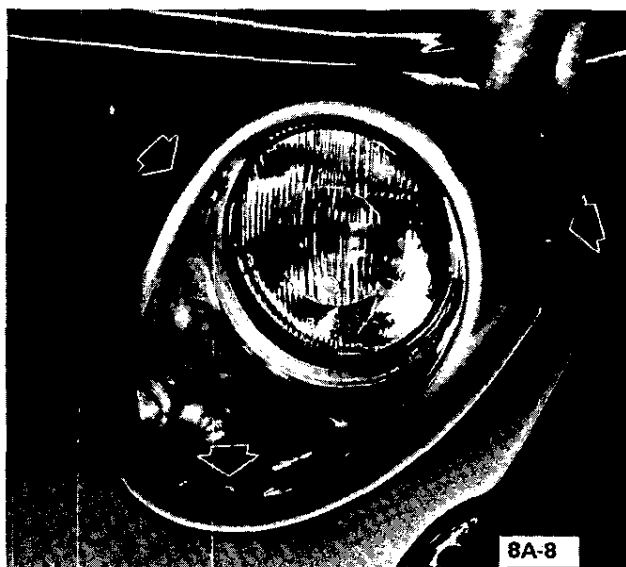


Figure 8A-8 Removing Headlamp Cap

2. Remove headlamp assembly and remove multiple plug from wire set.

3. Disconnect Bowden control wire(B). Loosen linkage at the clamp screw (A) and disconnect linkage in direction of arrows. See Figure 8A-9.



Figure 8A-9 Disconnecting Linkage

4. Mark support plate at its circumference and remove it. The marking facilitates the adjustment on reinstallation. See Figure 8A-2.

5. Mark swivel plate at its circumference and remove it. See Figure 8A-3.



Figure 8A-10 Removing Headlamp Assembly

6. To avoid damage cover headlamp upper and lower edges with tape.

Turn headlamp 90 degrees and carefully remove headlamp housing in direction of arrow. See Figure 8A-10.

7. Through access hole on fender underside, remove the two attaching screws and the screw at the upper deflector panel. See Figure 8A-11.

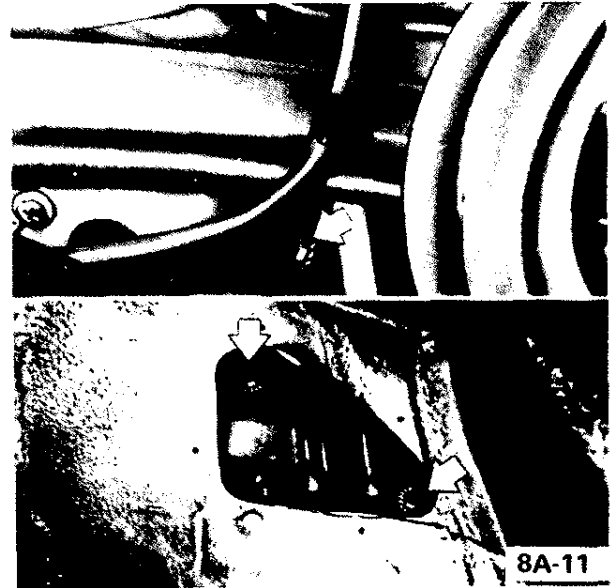


Figure 8A-1 1 Locking Mechanism Attaching Screws

8. Prior to removing, mark the individual single plugs (left headlamp only) and remove lock assembly. See Figure 8A-12.

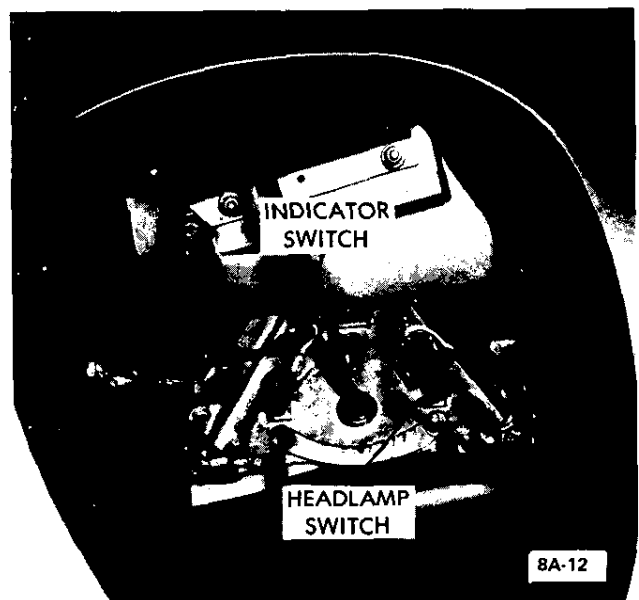


Figure 8A-1 2 Headlamp and Headlamp Indicator Switches

9. On installation make sure that the gaps between headlamp housing in closed position and headlamp opening is equal all round and housing is flush in its height with the body.

REMOVAL AND INSTALLATION OF HEADLAMP CABLE ASSEMBLY

Removal

1. Remove cotter pin. See Figure 8A-13 "C."
2. Remove trunion block and nut. See Figure 8A-13 "D."
3. Remove outer adjusting nut and pull cable through bearing. See Figure 8A-13 "B."
4. Pull cable through front chassis support.
5. Hoist car.
6. Remove wire clip and unsnap ball seat at control lever. See Figure 8A-14 "A."
7. Remove ball-socket and lock nut. See Figure 8A-14 "B."
8. Remove rear adjusting nut. See Figure 8A-14 "C."
9. Remove cable from retainers.

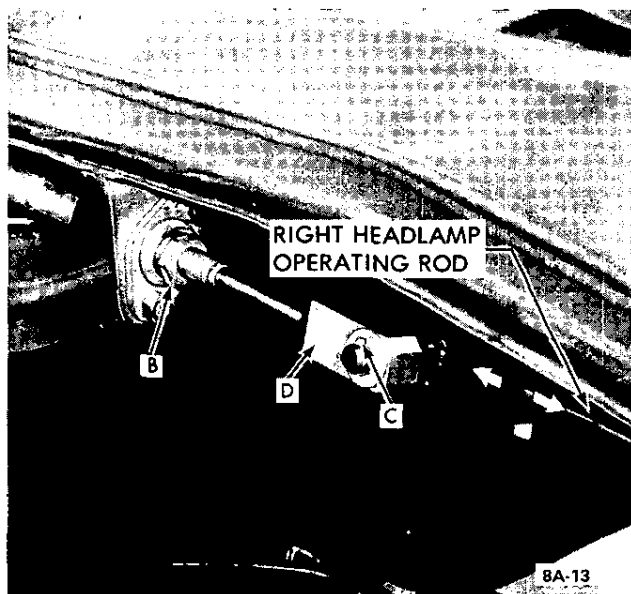


Figure 8A-13 Removing Headlamp Trunion Block

Installation

10. Thread cable through bearing and clip retainers.

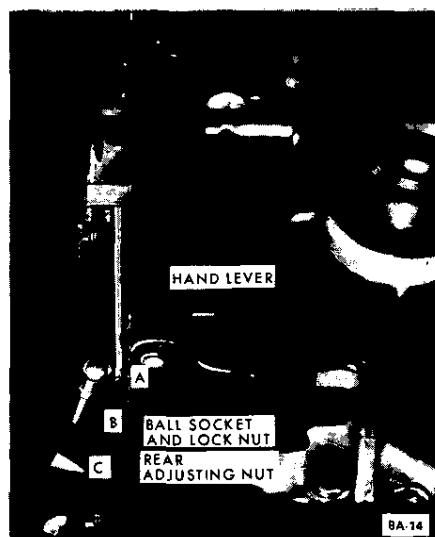


Figure 8A-14 Removing Ball Seat at Control Lever

11. Install adjusting lock nut approximately 1/2" on thread. See Figure 8A-13 "B."
12. Install lock nut and ball stud on end of cable. See Figure 8A-14 "B."
13. Connect ball stud to control lever with clip. See Figure 8A-14 "A."
14. Adjust lock nut under vehicle for maximum cable length. See Figure 8A-14 "C."
15. Thread cable through proper openings in body and install adjusting lock nut, trunion lock nut, trunion, and lock clip.
16. Adjust cable length for proper headlight operation.

REMOVAL AND INSTALLATION OF RADIATOR GRILLE (GT)

Removal

Remove screws securing grille screen to opening.

Installation

Install grille screen to opening and secure with screws.

REMOVAL AND INSTALLATION OF RADIATOR GRILLE EXTENSIONS (GT)

Removal

1. Remove hex head screw and washer holding grille extension to baffle plate.

2. Remove two plastic caps and phillips screws from outer end of grille extension.

3. Remove grille extension,

Installation

1. Install grille extension and secure with Phillips screws and two (2) plastic caps.

2. Install hex head screw and washer holding grille extension to baffle plate.

REMOVAL AND INSTALLATION OF RADIATOR GRILLE (OPEL 1900. MANTA)

A. Removal (Model 57)

1. Remove the five (5) radiator grille attaching screws. See Figure 8A-15.



Figure 8A-15 Radiator Grille Attaching Screws

2. Remove radiator grille towards the top so that the lower guide pins do not break off. See Figure 8A-16.

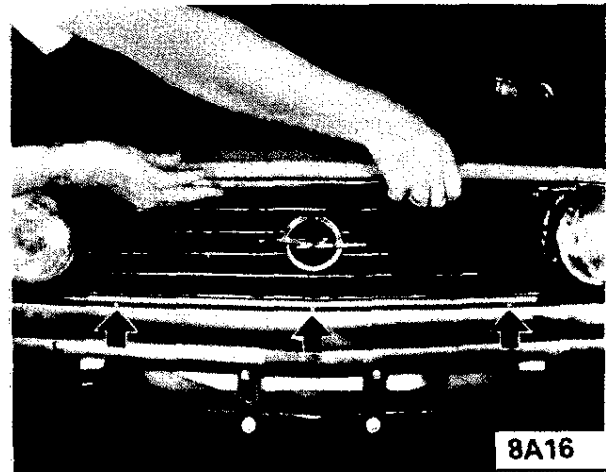


Figure 8A-16 Removing Radiator Grille

Installation (Model 57)

1. Install radiator grille, aligning guide pins into lower panel. See Figure 8A-16.

2. Secure grille with five (5) attaching screws. See Figure 8A-2.

Removal (Models 51, 53, and 54)

1. Remove the three (3) radiator grille attaching screws. See Figure 8A-17.

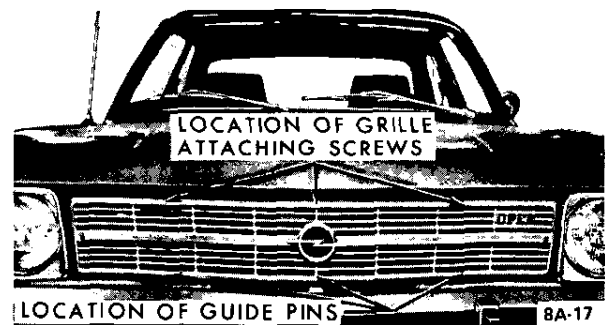


Figure 8A-17 Location of Radiator Grille Attaching Screws

2. Remove radiator grille towards the top so that the lower guide pins do not break off.