

CHASSIS SHEET METAL

GENERAL DESCRIPTION

The front bumper face bars and the grille are constructed in one sturdy unit. The complete bumper and grille assembly can be easily removed as a unit for servicing or replacement.

The radiator is mounted in a radiator support and is independent of the frame or fenders. In this way removal of the radiator without disturbing front end sheet metal is possible. It is only necessary to remove the bolts holding the fan shroud to the radiator and radiator support and lift the radiator from the support.

The hood is mounted on gear type hinges mounted on the front of the dash. Double-assist overcenter springs are used, both ends of which are fastened to the arms of the hinge. The new construction provides increased hold-open power, but allows the spring size and strength to be reduced through the mechanical advantage of the gears. Fore and aft adjustment of the hood is provided by slotted holes in the hinge bracket which fastens to the hood reinforcement.

A cam type hood latch is used at the front of the hood. The cam type latch is easy to close and release and provides more firm, safe hood locking. The latch is self adjusting so that it will always maintain a firm lock. The latch assembly acts as a pilot, eliminating the necessity for a separate pilot. Sideways adjustment of the front of the hood is provided by slotted holes in the latch plate where it bolts to the hood.

ADJUSTMENTS ON CAR

Adjustment of the front end sheet metal is concerned primarily with appearance of fit between adjoining sheet metal parts and ease of operation. The hood should be centered between the fenders and gapped evenly from front to rear. It should also open and close without binding or excessive "slamming" when being closed.

SHEET METAL ADJUSTMENTS

HOOD

Fore and aft adjustment of the hood is provided for at the hood hinges by slotted holes in the hinge bracket which bolts to the hood reinforcement.

Vertical adjustment at the rear of the hood is provided by adjustable rubber bumpers mounted on the cowl.

Vertical adjustment at the front of the hood is provided by adjustable rubber bumpers mounted on the hood.

Sideways adjustment of the front of the hood is provided by slotted holes in the latch plate which bolts to the hood.

As a final check with the hood closed, look through the grille to observe the position of the hood latch in relation to the left edge of the hood latch hole. The left edge of the latch should be just touching the left edge of the hole. If the latch is too far to the left of the car, the hood must be slammed to make the latch lock. If it is too far to the right, the latch will not lock properly. The latch will not be effective if there is excessive movement of the catch. This can be checked by depressing the catch by hand and observing the amount of travel between the catch and the vertical edge of the latch. If this travel is greater than $\frac{1}{16}$ " (See Fig. 11-1), it should be reduced by bending the upper end of the release lever toward the end of the cam.

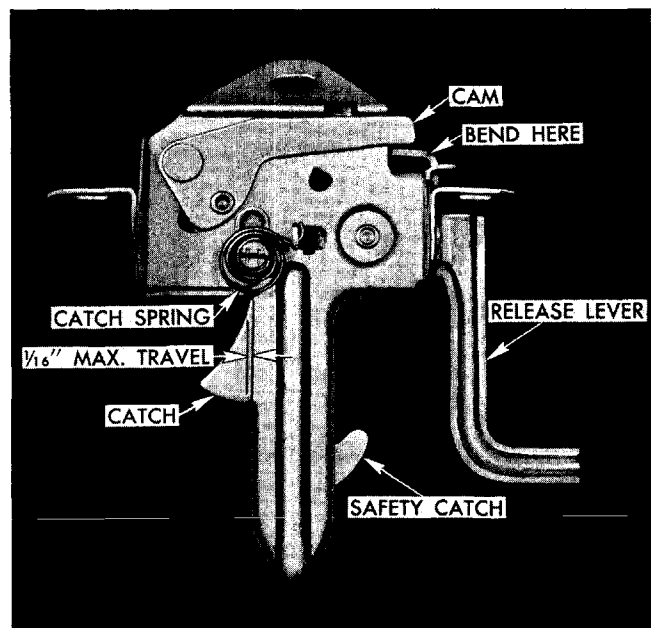


Fig. 11-1 Hood Latch and Safety Catch Assembly

FENDERS

Vertical and fore and aft adjustment is provided at rear of fenders by enlarged holes in the cowl at the attaching points.

Fenders can be moved closer to, or farther from the cowl by varying the number of shims used between the cowl and the fender.

RADIATOR SUPPORT AND FRONT END SHEET METAL

Sideways and fore and aft adjustment of the radiator support and parts connected thereto is provided by large holes in the frame cross member for the radiator support attaching bolts.

Vertical adjustment is provided at the same point by varying the thickness of shims between the radiator support spacer and the frame cross member.

The radiator support can also be tilted to one side or the other by varying the number of shims at just one attaching bolt.

BUMPER FACE BAR AND GRILLE

Vertical adjustment is provided at each side of the bumper face bar and grille assembly. Adjustment can be made by means of the cam type bolt fastening the bumper support to the frame.

SHEET METAL REMOVAL AND REPLACEMENT

FRONT FENDER—REMOVE AND REPLACE

1. Disconnect headlamp wires at terminals on radiator support to fender brace. Remove from clip on fender skirt and pull loom out of fender skirt.

2. Disconnect fender from fender skirt, radiator support to fender brace, radiator support baffle, fender and hood latch support, and fender extension (immediately behind bumper).

3. Remove upper and lower fender to cowl attaching screws.

4. Remove fender by lifting straight up.

5. Install fender by reversing above steps. After installing fender align it with other sheet metal.

BUMPER FACE BAR AND GRILLE ASSEMBLY—REMOVE AND REPLACE

1. Disconnect parking lamp wires from junction blocks on radiator support to fender brace.

2. Remove screw from bracket which fastens grille center bar to each side of fender and hood latch support.

3. Remove screw which fastens grille center bar to hood latch support brace.

4. Remove bumper to frame bar attaching bolts and remove bumper and grille assembly.

5. Install bumper and grille assembly by reversing above steps. Before tightening bumper to frame bar attaching bolts, align bumper and grille assembly with fenders by turning the cam type attaching bolt to raise or lower each side as necessary.

BATTERY SUPPORT REPLACEMENT

When replacing battery support it is very important to make sure that the battery will bear evenly against the support at all points. To provide an even bearing surface, install shims between support and mounting bracket at attaching bolts until the battery will set evenly in the support without rocking.

HOOD HINGE—REMOVE AND REPLACE

1. Open hood.

2. While one man holds hood, remove hinge to cowl attaching screws and hinge to hood reinforcement attaching screws and remove hinge. Position new hinge against cowl and install and tighten attaching screws. Install hinge to hood reinforcement attaching screws and tighten just snug.

3. Close hood and check alignment.

4. If hood is not properly aligned, measure the distance it is off. Open hood, mark position of hinge relative to hood reinforcement, loosen hinge at hood reinforcement, and move hinge the amount it was off. Tighten screws securely and recheck alignment.

HOOD HINGE SPRING REPLACEMENT

Hood hinge springs can be removed by pulling the front end off the hinge with a strong pair of pliers. When replacing the spring, hook the rear end on pin first, then using a pair of pliers, stretch the spring out and hook it at front.

HOOD REPLACEMENT

The hood can be removed very quickly by disconnecting it from the hinges at the hood reinforcement. When replacing the hood, adjust the alignment, one hinge at a time, as outlined in steps 3 and 4 under **HOOD HINGE—REMOVE AND REPLACE**.