

CHASSIS SHEET METAL

GENERAL INFORMATION

The appearance and styling of the 1955 Cadillac cars has been enhanced by revising the hood silhouette to give it a wider appearance. The front fenders are also newly designed to match the new side treatment of the body.

Open grille styling has been accomplished by slightly narrowing the grille fins and providing

much wider spacing. In addition, the front bumper and bumper guards have been newly styled. The assembly consists of four bolted-together sections; the outer impact bars, a lower impact bar, and a bumper guard tie bar. With this design, replacement of any one section may be made in case of damage.

SERVICE INFORMATION

(1) Removal and Installation of Radiator Grille and Front Bumper Assembly

a. Removal

1. Disconnect parking or fog lamp wires at plastic connector.

2. Remove bolts, one each side, support to outer impact bar end.

3. Remove four bolts, two each side, frame to bumper mounting bar. Note the number of shims, if any, between the bumper mounting bars and frame so that the same number may be reinstalled.

4. Remove bumper and radiator grille assembly from the car and place it upon a suitable padded covering.

b. Installation

1. Place assembly in position and install four frame to bumper mounting bar bolts, making certain that the same number of shims are installed between the frame and bumper mounting bar as were removed. Also install two support to bumper guard bolts.

Do not tighten these bolts all the way until the next step in the procedure is performed.

2. Adjust assembly horizontally, vertically, fore and aft, or to obtain proper tilt as follows:

a. Bumper mounting bars are slotted horizontally for this adjustment.

b. Assembly may be adjusted vertically by means of vertical slots in the frame.

c. Fore and aft adjustment is obtained by placing variable thicknesses of shims between the frame and bumper mounting bars.

d. Proper tilt of assembly may be obtained by loosening and tightening the bumper guard intermediate support bolts, two each side.

3. Use any combination of the above methods until over-all alignment is obtained.

4. Torque tighten bumper mounting bar bolts to 110-120 ft. lbs. and support-to-bumper-guard bolts to 35-45 ft. lbs.

5. Connect parking and fog lamp wires at plastic connector.

(2) Removal and Installation of Radiator Grille

1. Front bumper and radiator grille assembly must be removed and installed as described in Note 1.

2. Remove grille-to-impact-bar outer screws, one each side.

3. Remove grille and grille extension to impact bar outer end bolts, two each side.

4. Remove three grille to bumper guard tie bar screws.

5. Remove 15 grille to lower impact bar screws.

6. Remove grille assembly from bumper assembly.

7. Install grille assembly by reversing the procedure for removal.

(3) Disassembly and Assembly of Radiator Grille

1. Remove right and left grille fin retainers by removing 23 attaching screws.

2. Individual vertical or horizontal fins may be removed from the grille by releasing the horizontal fin from the two tangs at each vertical fin.

3. Assemble grille assembly by reversing the procedure for removal.

CHASSIS SHEET METAL

(4) Disassembly and Assembly of Front Bumper

1. Radiator grille must be removed as described in Note 2.

2. Remove 3 bolts holding bumper mounting bar to lower impact bar and impact bar outer end on each side and remove mounting bars.

3. Remove bumper guard tie bar to impact bar outer end bolts, two each side and remove bumper guard tie bar.

4. Remove grille extension to impact bar outer end bolts, two each side and remove grille extensions.

5. Remove lower impact bar to impact bar outer end bolts, four each side and separate lower impact bar and impact bar outer ends.

6. Assemble front bumper by reversing the procedure for disassembly.

(5) Removal and Installation of Front Bumper Sections

a. Lower Impact Bar

1. Front bumper and radiator grille assembly must be removed as described in Note 1.

2. Remove 15 grille to lower impact bar screws.

3. Remove 3 bolts holding bumper mounting bar to lower impact bar and impact bar outer end on each side and remove mounting bars.

4. Remove lower impact bar to impact bar outer end bolts, four each side and remove lower impact bar.

5. Install lower impact bar by reversing the procedure for removal.

b. Impact Bar Outer End—Right or Left

1. Front bumper and radiator grille assembly must be removed as described in Note 1.

2. Remove three bolts holding bumper mounting bar to lower impact bar and impact bar outer end and remove mounting bar.

3. Remove two grille extension to impact bar outer end bolts.

4. Remove one grille and grille extension to impact bar outer end bolt.

5. Remove one grille to impact bar outer end screw.

6. Remove two bumper guard tie bar to impact bar outer end bolts.

7. Remove four impact bar outer end to lower impact bar bolts.

8. Install impact bar outer end by reversing the procedure for removal.

c. Bumper Guard Tie Bar

NOTE: It is not necessary to remove the front bumper and grille assembly to perform this operation.

1. Remove bumper guard tie bar to impact bar outer end bolts, two each side.

2. Remove three grille assembly to tie bar screws and remove bumper guard tie bar.

3. Install bumper guard tie bar by reversing the procedure for removal.

(6) Removal and Installation of Radiator Support Assembly

1. Remove radiator grille and front bumper assembly as explained in Note 1.

2. On Air Conditioner equipped cars, proceed as follows:

a. Remove condenser from radiator support as described in Section 16-A, Note 25.

b. Disconnect and remove pipe between receiver-filter unit and sight glass.

c. Disconnect and remove compressor to condenser pipe.

3. Drain cooling system and remove radiator assembly.

4. Disconnect battery cable, horn wires to horns and horn relay, and wires from voltage regulator.

5. Remove horn relay and voltage regulator.

6. Remove wiring harness clips from top of radiator support and disconnect wiring harness ground wires.

7. Remove two radiator support to hood lock plate screws and two center baffle to air deflector screws. On Air Conditioner equipped cars, these items are removed when removing the condenser.

CHASSIS SHEET METAL

8. Remove four air deflector screws, two each side, and remove air deflector with horns. On Air Conditioned cars, only two screws, one each side, are removed, as the other two screws serve as condenser mounting screws.

9. Remove four fender bracket to radiator support bolts, two each side.

10. Remove right front fender as explained in Note 9.

11. Remove three radiator support to left front fender screws.

12. Remove radiator support to frame bolt, noting the number of shims removed so that the same number may be reinstalled.

13. Remove radiator support assembly.

14. Install radiator support assembly by reversing the procedure for removal. After the assembly is installed, adjust hood lock.

(7) Removal of Left Front Fender

1. Disconnect positive battery cable.

2. Disconnect parking lamp or fog lamp and headlamp wires at plastic connectors.

3. Disconnect wire from blower motor.

4. Disconnect both flexible hoses from blower to motor.

5. Remove three radiator support to fender screws.

6. Remove fender attaching screw at cowl.

7. Jack up car, and remove left front wheel.

8. Disconnect antenna lead from antenna on cars so equipped.

9. Working from the under side of fender, remove four screws which attach the Autronic Eye amplifier to the fender dust shield.

10. Working from top side of fender, remove Autronic Eye Amplifier.

11. Disconnect wires from Autronic Eye Power relay.

12. Remove wire harness from retainer clips on fender, and move harness away from fender.

13. Remove two screws at rocker panel "U" clamp.

14. Remove rocker sill molding.

15. Remove three dust shield to frame screws.

16. Remove two fender bracket to radiator support bolts.

17. Apply masking tape to front edge of door in order to avoid scratching finish when removing fender.

18. Remove fender from car by moving fender backward slightly and then upward and out.

(8) Installation of Left Front Fender

1. Place fender in position, and install fender to cowl attaching screw loosely.

2. Install two fender bracket to radiator support bolts loosely.

3. Install three dust shield to frame screws loosely.

4. Install two fender to rocker panel "U" clamp screws loosely.

5. Install three radiator support to fender screws loosely.

6. Align fender to door, cowl, and hood, and tighten all bolts and screws.

NOTE: Fender screw and bolt holes are elongated to allow for alignment. To raise or lower the fender for alignment to hood or door, install or remove shims from fender bracket to radiator support bolts, or fender to cowl screws as necessary.

7. Install rocker sill molding.

8. Connect antenna lead to antenna.

9. Install Autronic Eye amplifier and power relay to fender dust shield.

10. Install left front wheel and lower car.

11. Connect ventilator flexible air hoses from blower to air duct and blower to heater.

12. Connect blower wire to blower motors.

13. Connect wires to Autronic Eye power relay.

