

## WINDSHIELD ASSEMBLY 1955 PONTIAC—ALL STYLES

The 1955 Pontiac incorporates a new large, one-piece wrap-around windshield which is retained in the windshield opening by a one-piece rubber channel.

Some of the other new features of the front end are: a windshield drain gutter with a drain hose at each end, a newly designed instrument panel, and new windshield reveal and garnish moldings.

### WINDSHIELD GARNISH MOLDINGS

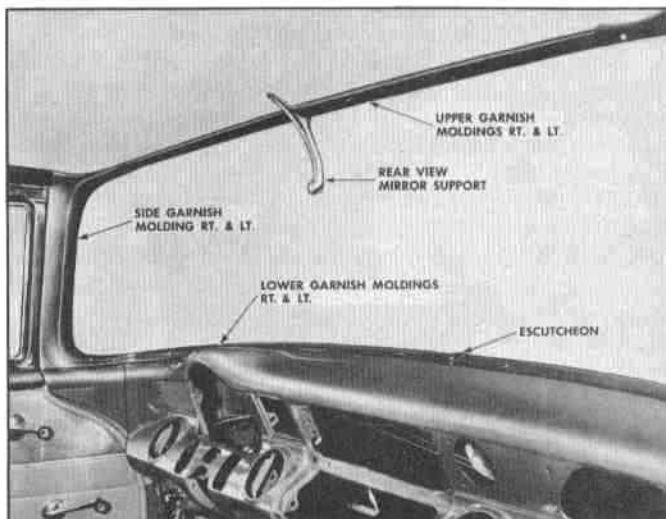
The windshield garnish moldings are secured to the body with screws. The garnish moldings on the sedan, convertible and special coupe are similar in design. The illustration shows the garnish molding installed on a special coupe.

#### REMOVAL AND INSTALLATION

1. Remove the screws securing the garnish molding and carefully remove moldings in the following sequence.

On closed and special coupe styles - windshield side moldings, escutcheon at junction of lower moldings, and upper and lower moldings. On convertible styles - upper moldings, side moldings, escutcheon, and lower moldings.

2. To install, reverse the removal procedure.



### REAR VIEW MIRROR SUPPORT

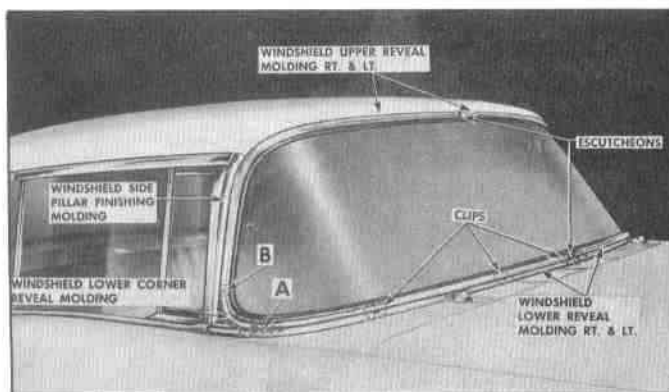
#### REMOVAL AND INSTALLATION

1. On closed and special coupe styles, remove the side and upper windshield garnish moldings. On convertible styles, remove the upper garnish moldings.

2. Remove three (3) screws securing rear view mirror support and remove support.

3. To install, reverse the removal procedure.

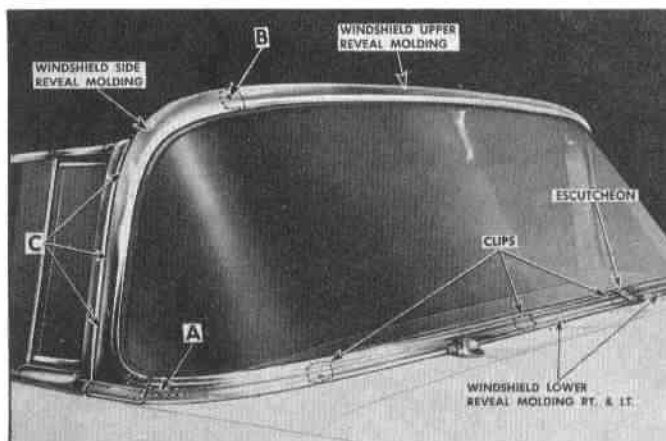
### WINDSHIELD REVEAL MOLDINGS



This illustration shows the windshield reveal moldings installed on a convertible style. Also shown are the names of the moldings and the location of the retaining clips and screws.

Sedan and sport coupe styles have windshield reveal moldings of the same design. The convertible style takes a different windshield upper and side reveal molding. The opposite illustration shows the windshield reveal molding installed on a special coupe style.

The windshield side pillar finishing moldings are installed on the special coupe styles.



## WINDSHIELD REVEAL MOLDINGS

### REMOVAL

1. Apply masking tape on the body at areas adjacent to the windshield lower reveal moldings.
  2. Remove the wiper blade and arm assembly from each transmission.
  3. Remove the transmission escutcheon spanner nut and escutcheon from each transmission.
  4. With suitable tool, carefully slide escutcheon from the junction of the lower reveal moldings to expose clip attaching screw.
  5. Remove screw securing retaining clip under escutcheon, and slide clip into either molding.
  6. Carefully slide lower reveal molding approximately 1-1/2" toward center line of the body.
- NOTE: At this location the reveal molding lower flange is cut out to permit disengagement of the lower edge of the molding from the inboard retaining clip.
7. Disengage molding from inboard clip, then slide molding toward center line of body until end of molding disengages from outboard clip.
  8. Repeat steps 5, 6, and 7 on opposite molding.

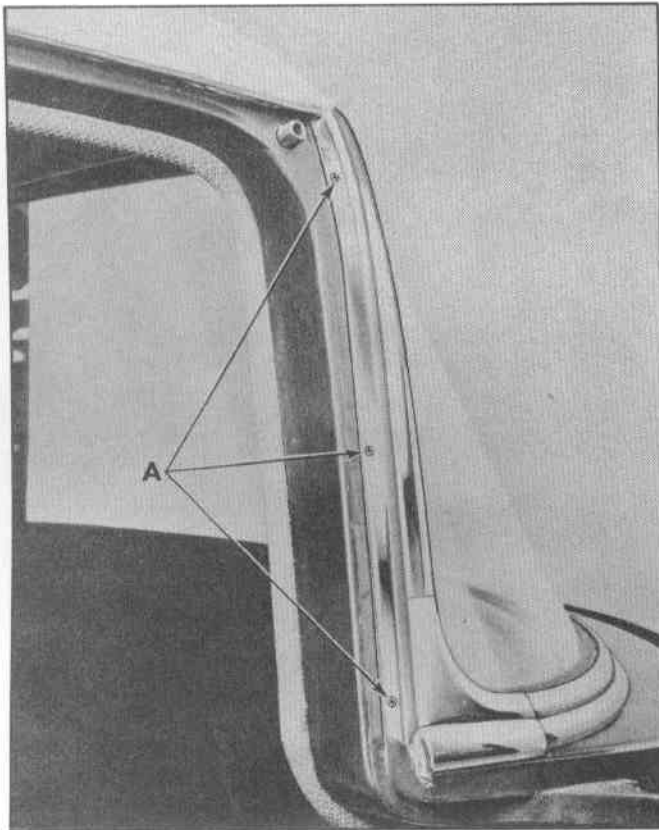
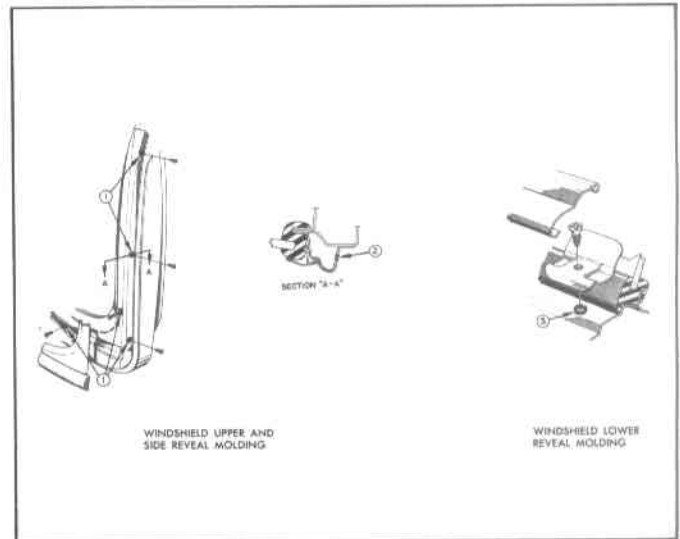
NOTE: For reference to the letters indicated in steps 9, 10 and 11, refer to illustrations on previous page.

9. Remove the screw "A" securing corner reveal or side reveal molding clip.
10. On sedan and special coupe styles, slide the corner reveal molding downward and remove from body, then remove screw "B" securing end of each reveal molding.
11. On convertible styles, remove the three (3) screws indicated at "C", then disengage end of molding from upper reveal molding and remove from body. Remove screw "B" at each end of upper reveal molding. Note how rubber channel is notched at screw locations.

NOTE: On all styles, the upper reveal molding(s) are removed from the windshield rubber channel after the windshield assembly is removed from the body.

### INSTALLATION

1. To install moldings, reverse the removal procedure. Apply a medium-bodied sealer to screw holes indicated at one (1) in the opposite drawing. Apply sealer inside of holes as indicated at two (2) in section "A-A".
2. In addition at the windshield lower reveal moldings, apply a medium-bodied sealer around clip holes as indicated at three (3).



### WINDSHIELD SIDE PILLAR

### FINISHING MOLDING

### REMOVAL AND INSTALLATION

1. Remove the windshield lower reveal molding and lower corner reveal molding.
2. Remove screw securing end of upper reveal molding.
3. Remove three (3) screws indicated at "A", and carefully pry off molding.
4. To install, reverse the removal procedure. Seal molding attaching holes as indicated in drawing above.

## WINDSHIELD HEADER MOLDING

### CONVERTIBLE STYLES

The header molding on convertibles consists of a right and left side. The procedure which follows outlines the removal of both sides. If desired, only one side may be removed.

1. Remove the windshield side reveal moldings as outlined on page 4.
2. Remove the screw securing each end of windshield upper reveal molding.

3. On the inside of the body, remove the header molding escutcheon, the side and upper windshield garnish moldings, sunshade rod retainers, sunshade supports, and front roof rail lock strikers.

4. Disengage front edge of header moldings from under windshield reveal molding and remove from body.

5. To install, reverse the removal procedure.

### CHECKING THE BODY WINDSHIELD OPENING

Due to the size and contour of the new wrap-around windshield, it is important that the body windshield opening be checked thoroughly before the installation of a replacement windshield glass. The procedure below outlines the method which may be used to check the windshield opening.

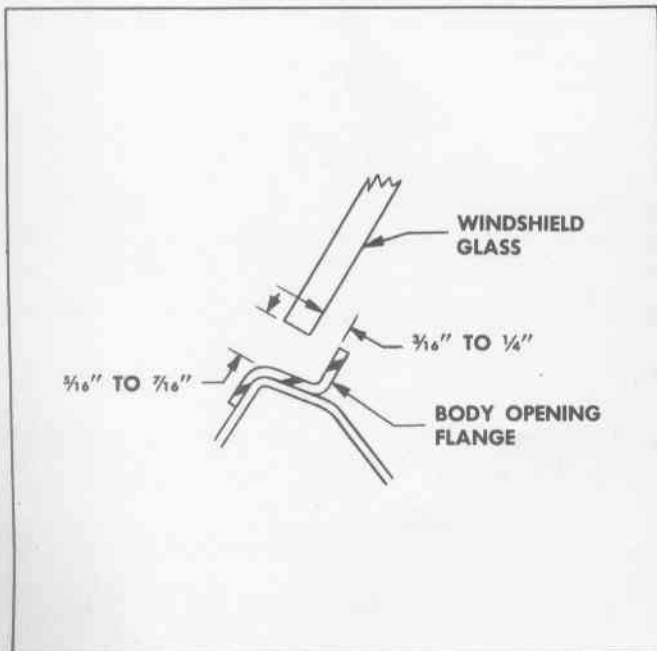
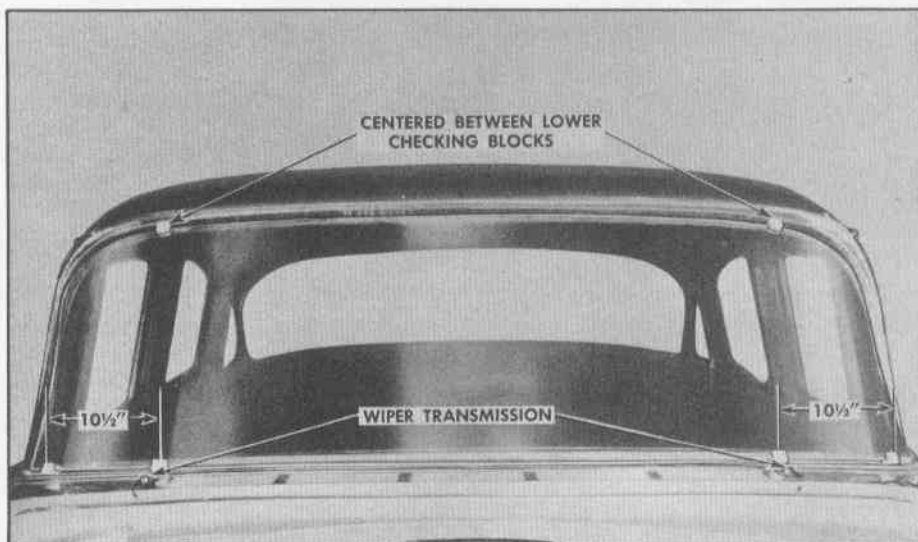
1. Remove the windshield from the body as outlined on page 6.

2. Check the windshield rubber channel for any irregularities.

3. Clean off old sealer from around windshield opening and check entire body opening flange.

4. Check windshield glass to opening by supporting glass with six wooden spacers as shown in illustration.

**CAUTION:** Care should be exercised to make certain that the glass does not strike the body metal during this temporary installation. Edge chips can lead to future breaks.



5. With the windshield glass supported and centered in the opening by the spacers, check the relationship of the glass to the body opening around the entire perimeter of the glass.

The drawing opposite shows a typical section taken through the glass channel and body opening. Check the glass to body relationship as follows:

- a. The inside surface of the glass should be a uniform distance from the body flange. The dimension should be from  $3/16''$  to  $1/4''$ .
- b. The outer edge of the glass should be a uniform distance from the body metal, measured in the plane of the glass. This dimension should be from  $5/16''$  to  $7/16''$ .

6. Mark any sections of the body to be re-formed, remove glass and re-form the opening as required.

7. Check the windshield opening again as outlined in step 4. Then **MARK THE GLASS AND BODY** so that glass can be accurately centered in opening when installed.

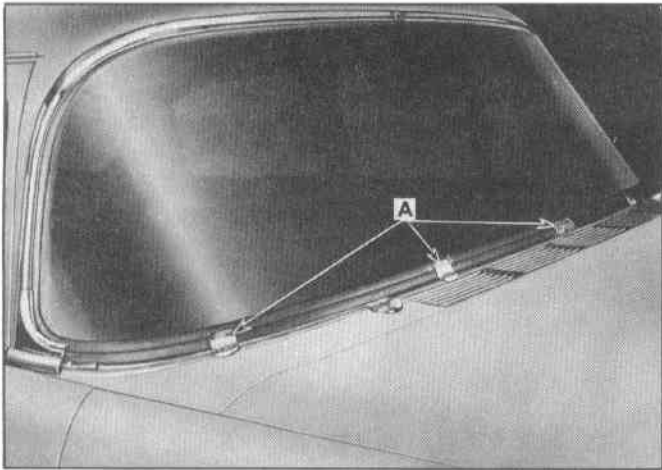
8. Install windshield as outlined on page 6.

## WINDSHIELD GLASS

## REMOVAL

The opposite drawing shows a typical cross-section of the top and bottom edges of the windshield assembly.

1. On convertible styles, lower the top.
2. Place protective covering over the hood, front fenders, instrument panel, and front seat assembly.
3. On the inside of the body, remove the windshield garnish moldings and rear view mirror support.



8. On inside of body, loosen lip of rubber channel from pinchweld flange along top and sides of windshield as follows:

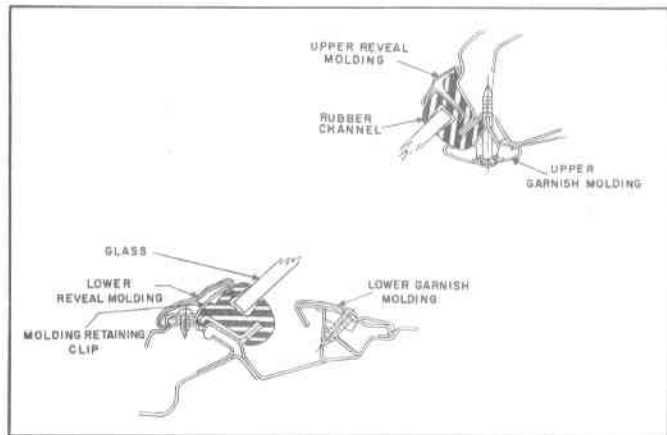
With palm of hand, apply pressure to edge of glass as shown. At same time use a putty knife or other suitable tool and carefully assist lip of rubber channel over pinchweld flange.

9. After the windshield rubber channel is free from the pinchweld flange, obtain the aid of a helper and lift the windshield assembly from the body opening and place on a covered bench.

10. Remove the windshield upper reveal molding by disengaging tee flange of molding from windshield rubber channel.

NOTE: On convertible styles, observe location and size of notch cut out in the rubber channel at each end of upper reveal molding.

11. Remove rubber channel from the glass.

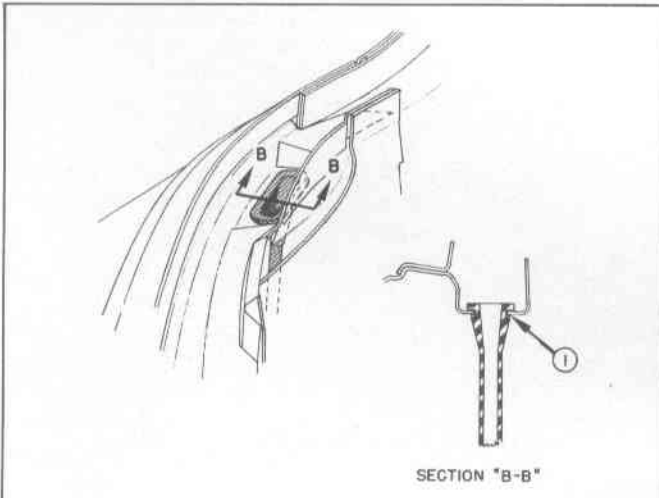
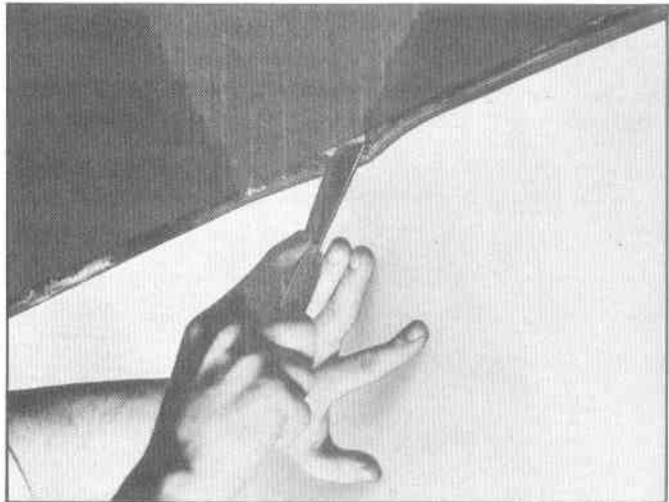


4. On sedan and special coupe styles, remove the windshield lower reveal moldings and lower corner reveal molding as outlined on page 4.

5. On convertible styles, remove the lower reveal moldings and windshield side reveal moldings as outlined on page 4.

6. Remove the screws securing ends of upper reveal molding.

7. Remove the lower reveal molding retaining clips from the body. Some of the clips are indicated at "A" in the illustration.



## INSTALLATION

**IMPORTANT:** Before reinstalling the windshield glass, check the windshield opening following the procedure outlined on page 5.

1. Check windshield drain gutter and drain hose at each end of gutter for any obstructions, and clean out if necessary.

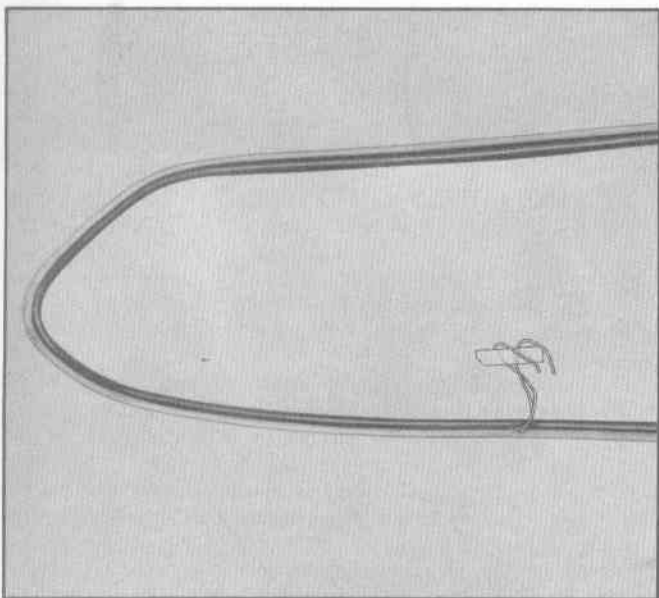
Drawing shows drain hose at end of windshield drain gutter. Section "B-B" shows sealing of drain hose at one (1).

## INSTALLATION (CONT'D)

2. Locate center line of windshield glass. Assemble rubber channel to glass with groove for windshield upper reveal molding located on top edge of glass. Install upper reveal moldings.

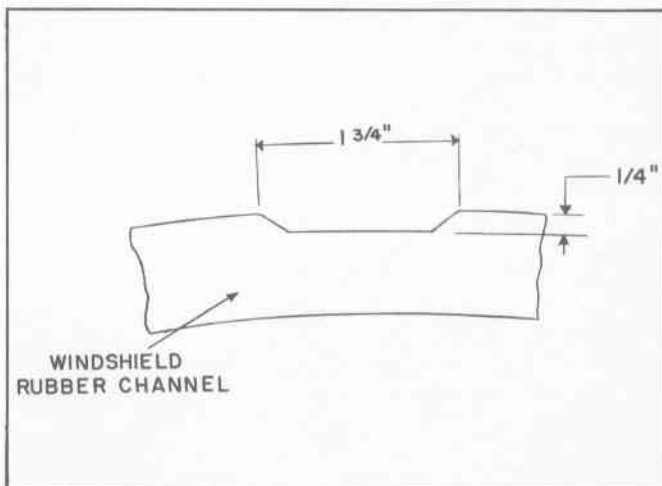
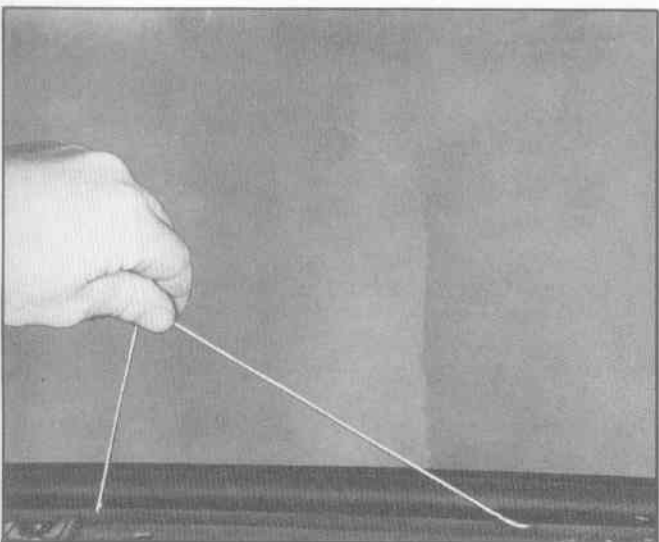
NOTE: To facilitate installation of reveal molding, apply a mild soap solution to molding tee flange and cavity in rubber channel.

3. On convertible styles, center reveal molding in channel. If installing new channel, carefully cut out notch in rubber channel at location of upper reveal molding attaching screws. Size of notch is shown in drawing.

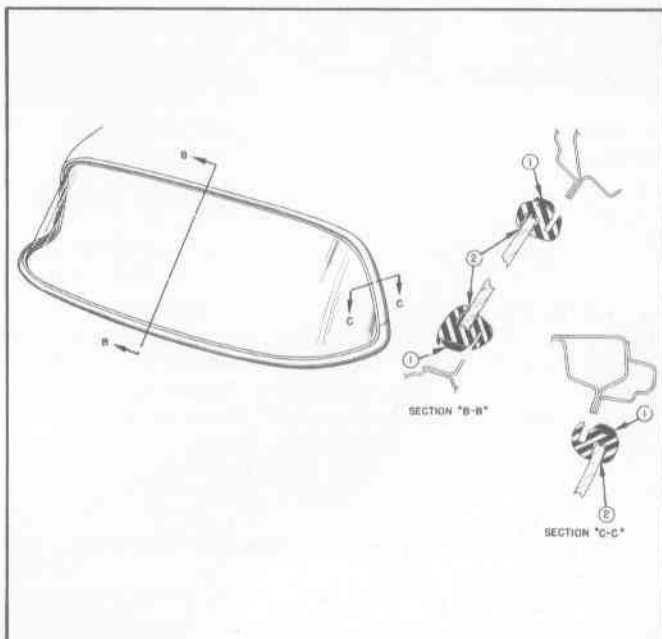


5. Apply a ribbon of medium-bodied sealer completely around base of rubber channel, as indicated in drawing at one (1).

6. With aid of helper, carefully place and center the windshield assembly in windshield opening.



4. Insert a strong cord into the pinchweld cavity of rubber channel completely around windshield. Tie ends of cord and tape to the inside of glass at bottom center as shown in illustration.



7. While pressing firmly from the outside, have helper on the inside slowly pull cord from lower center to each lower corner of windshield to seat lip of rubber over flange along bottom of windshield opening. Then pull cord along both sides and top of windshield.

8. Seal the outside lip of rubber channel to the glass around perimeter of the windshield, using weather-strip cement. Location of seal is shown at 2 in illustration above.

9. Clean off excess sealer and cement using mineral spirits. Reinstall previously removed parts.

10. Remove protective covering.

## WINDSHIELD WIPER ASSEMBLY

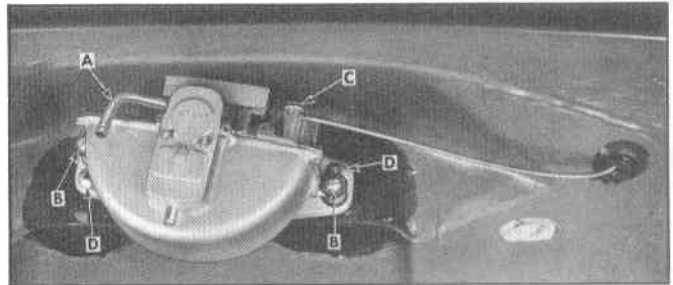
The windshield wiper assembly consists of a vacuum powered wiper motor, auxiliary drive, and two (2) wiper transmissions which are operated by a cable drive.

Each transmission assembly is designed with "spring-loaded" pulleys that, when released, automatically adjust wiper cable tension. The wiper motor auxiliary drive is designed with two (2) pulleys to which the ends of the transmission cables are attached.

The windshield wiper motor and auxiliary drive assembly is installed to the forward side of the dash panel, and can be removed as a unit, or the motor can be removed from the auxiliary drive.

### WINDSHIELD WIPER MOTOR REMOVAL AND INSTALLATION

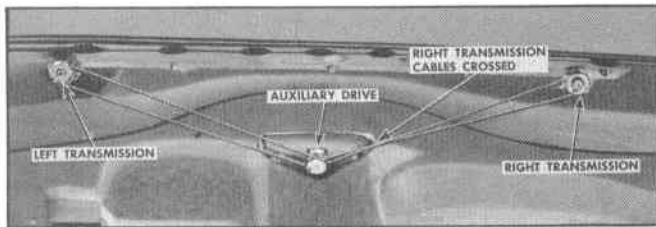
1. Detach vacuum line from connector at "A".
2. Remove screws "B".
3. Remove motor from auxiliary drive and loosen screw "C". Then detach control cable from valve and remove motor assembly from body.
4. To install, reverse the removal procedure. Make sure control cable is correctly positioned at "C" for proper valve operation.



### WINDSHIELD WIPER MOTOR AND AUXILIARY DRIVE ASSEMBLY

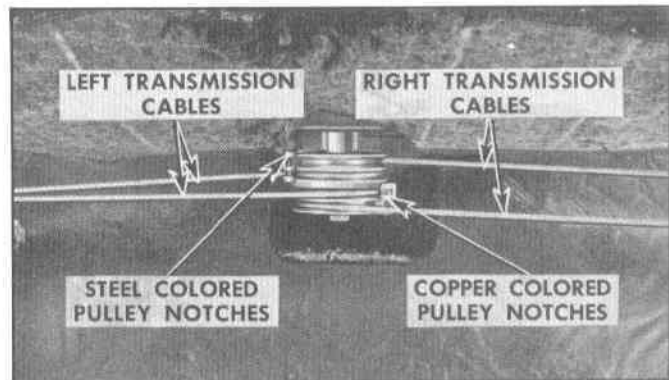
#### REMOVAL

1. Remove instrument panel compartment box.
2. Adjust cables to slack position. See Cable Adjustment on page 9.
3. Observe attachment of cables to auxiliary drive; then detach cables from pulleys. **IMPORTANT:** Note how the right transmission cables are crossed.
4. At front of dash panel, remove two (2) screws indicated at "D" in illustration above, disconnect vacuum line and control cable from wiper motor and remove motor from dash panel.



#### INSTALLATION

1. Lubricate auxiliary drive pulleys as outlined in Lubrication Section on page 89.
2. Connect vacuum line and control cable to wiper motor.
3. Assemble wiper motor and auxiliary drive to dash panel and secure with two (2) attaching screws.
4. Inside of body, attach transmission cables to auxiliary drive pulleys as shown in illustration. **IMPORTANT:** Cross the right transmission cables as shown in the illustration above, then connect copper-colored cable ends to copper-colored notches on pulley, and steel-colored cable ends to steel-colored notches on drive pulley.
5. Adjust cables to required tension. See Cable Adjustment on page 9.
6. Operate wiper motor and check entire wiper mechanism, then install instrument panel compartment box.

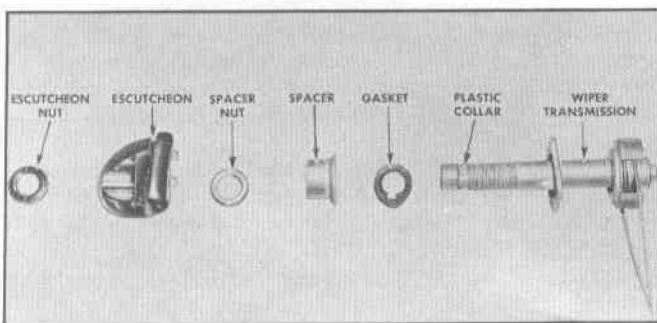


### WINDSHIELD WIPER TRANSMISSIONS

The illustration shows a wiper transmission with component parts removed from the body.

#### REMOVAL

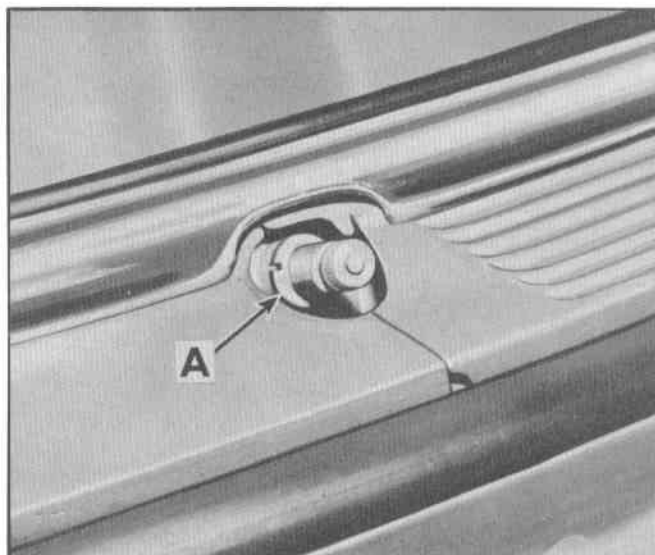
1. Remove wiper blade and arm assemblies.
2. Remove instrument panel compartment box.
3. Adjust wiper transmission cables to slack position. See Cable Adjustment on page 9.
4. Observe attachment of transmission cables to auxiliary drive, then disconnect cables from pulleys.



## WINDSHIELD WIPER TRANSMISSIONS

### REMOVAL (CONT'D)

5. On outside of body at each transmission, remove escutcheon spanner nut. Lift escutcheon from body, disconnect washer hose and remove escutcheon.
6. At each transmission, remove the transmission spacer spanner nut indicated at "A" and remove spacer.
7. On inside of body, pull each transmission down through cowl panel and remove from body.



### INSTALLATION

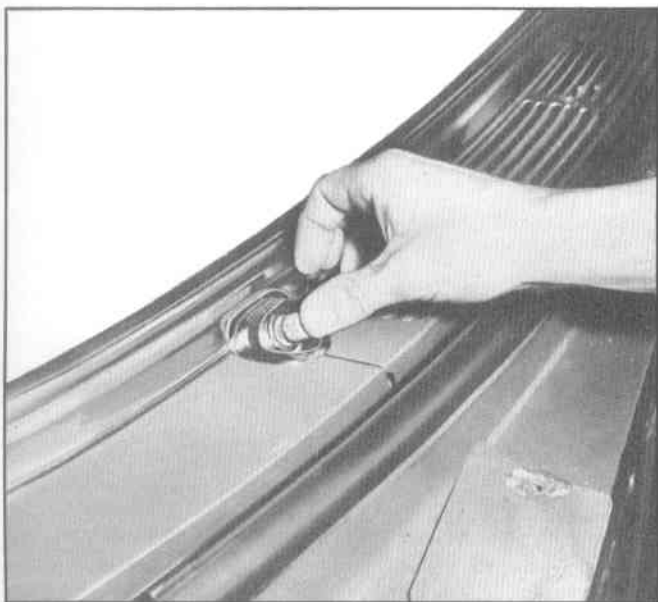
1. Lubricate parts as indicated on page 89 in the Lubrication Section.
  2. Install gasket to each transmission.
  3. Position each transmission assembly in body, install spacer and secure in place with spacer spanner nut.
  4. Attach transmission cables to auxiliary drive drums. See step 4 and 5 of the Windshield Wiper Motor and Auxiliary Drive Assembly.
- NOTE: If new transmission is being installed, it is necessary to remove plastic collar from transmission before cables can be tensioned. Illustrated on page 8.
5. Connect washer hose to transmission escutcheon and secure escutcheon with chrome plated spanner nut.
  6. Reinstall wiper blade and arm assemblies. Check operation of wiper motor and transmission assembly.
  7. Reinstall instrument panel compartment box.

## WINDSHIELD WIPER CONTROL

### REMOVAL AND INSTALLATION

1. Loosen wiper motor and detach windshield wiper control cable from motor.
2. Loosen set screw on control knob and remove knob.
3. Remove spanner nut and escutcheon from wiper control shaft.
4. Push wiper control forward through instrument and lower it beneath level of panel.
5. Tag wiper hoses for proper identification and disconnect them from the wiper control, then remove control and cable as an assembly.
6. To install, reverse the removal procedure. Make sure control cable is correctly positioned at motor for proper valve operation.

## WINDSHIELD WIPER TRANSMISSION CABLE ADJUSTMENT



The transmission cables are tensioned by "spring-loaded" pulleys. When the end of the transmission shaft is pushed "in" as shown in the illustration, the spring-loaded pulleys unlock and tension the cables.

To obtain slack in the wiper transmission cables, proceed as follows:

1. Push "in" the base of the wiper arm where the arm fits over the transmission shaft to unlock spring loaded pulleys.

If wiper arm has been removed, push in the end of the transmission as shown in the illustration.

2. While pulleys are unlocked, have helper on inside of car pull cable to obtain slack. When sufficient slack is obtained, release end of transmission shaft to lock cables in slack position.

3. To restore tension in cables, push "in" on end of transmission shaft. Repeat operation on opposite transmission.

NOTE: Loose cables cause blade slap or over-travel at end of stroke. If this condition exists, adjust tension of cables as outlined in step 3 above.

## INSTRUMENT PANEL ASSEMBLY

The 1955 Pontiac incorporates a newly designed instrument panel. The instrument panel compartment box is located at the center of the instrument panel, and is retained with screws. The compartment door is secured to the instrument panel by a hinge which is also retained by screws.

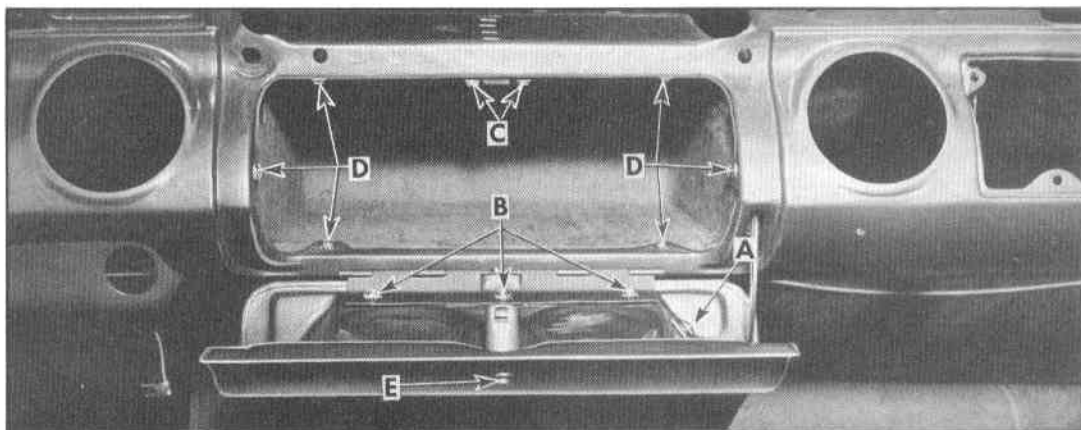
### INSTRUMENT PANEL COMPARTMENT DOOR

#### REMOVAL AND INSTALLATION

1. Open door and with pencil scribe location of the hinge on door.
2. Remove the hinge attaching screws at the door or instrument panel attaching side, and two (2) screws indicated at "A", then remove door.
3. To install, position door within hinge scribe marks and reinstall attaching screws.

#### ADJUSTMENTS

1. To adjust the closed position of the door up or down, loosen screws "B", adjust door as required and tighten screws.
2. To adjust door from side to side, loosen the compartment door male hinge strap attaching screws, which are located beneath the instrument panel. Adjust door as required and tighten screws.
3. To adjust the compartment door lock striker, loosen two (2) screws indicated at "C", adjust door as required, then tighten screws.



### INSTRUMENT PANEL COMPARTMENT BOX

#### REMOVAL AND INSTALLATION

1. Remove screws indicated at "D" in the illustration above.
2. Move box forward and downward, and remove from instrument panel.
3. To install, reverse removal procedure.

### INSTRUMENT PANEL COMPARTMENT

#### DOOR LOCK KNOB

#### REMOVAL AND INSTALLATION

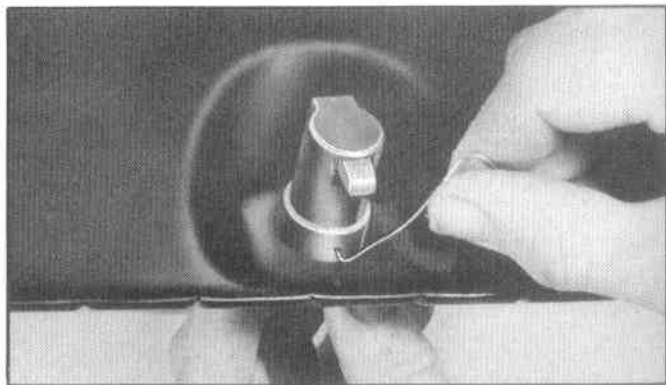
1. Remove door lock cylinder.
2. With suitable tool, unscrew lock knob escutcheon indicated at "E" in illustration above, and remove escutcheon and lock knob.
3. To install, reverse removal procedure.

### INSTRUMENT PANEL COMPARTMENT

#### DOOR LOCK CYLINDER

#### REMOVAL AND INSTALLATION

1. With suitable tool, depress #1 tumbler of cylinder as shown in illustration and remove cylinder.
2. To install, reverse the removal procedure.



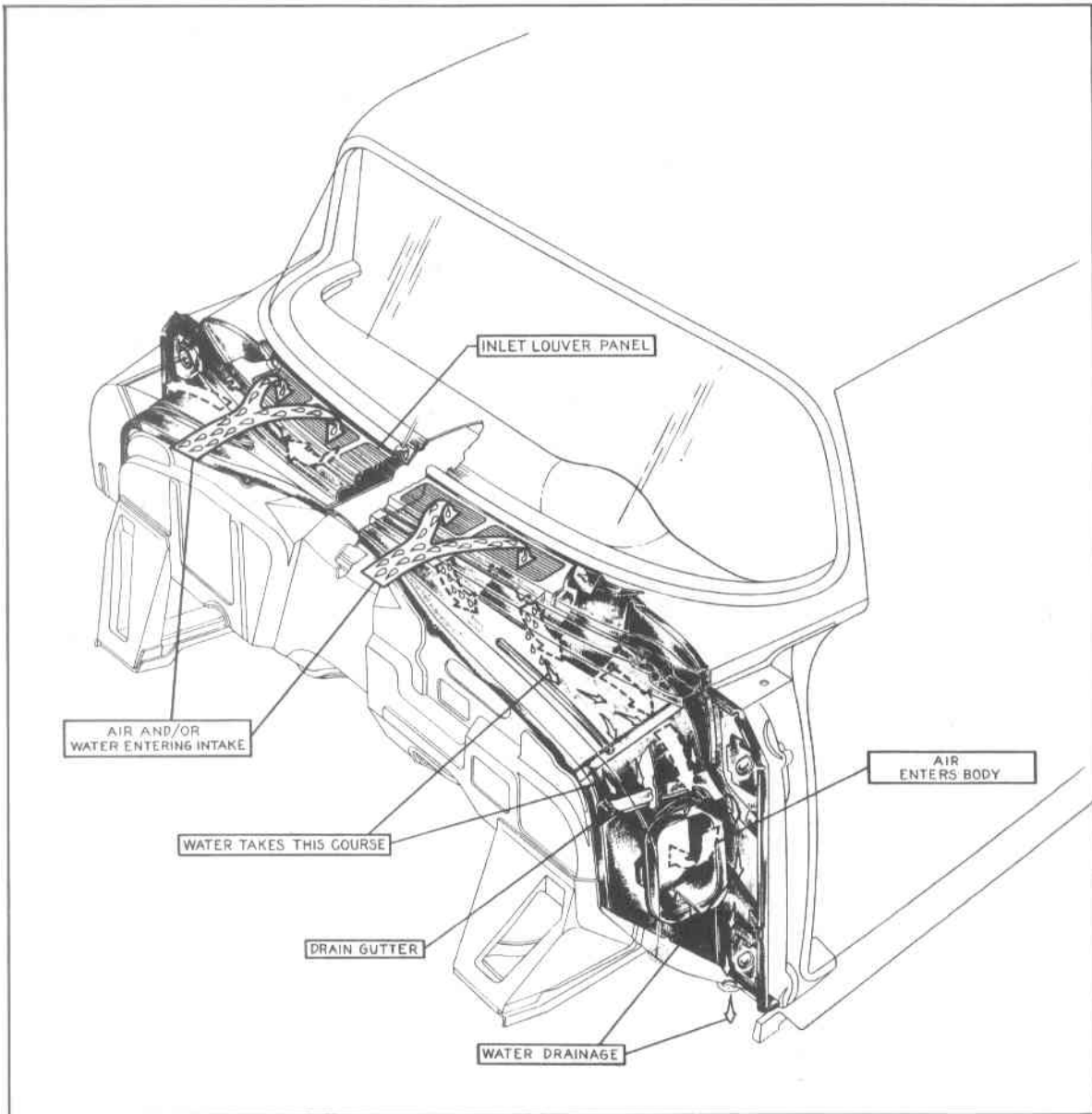


## COWL VENTILATING SYSTEM

The 1955 Pontiac incorporates a new ventilating system with an air intake louver panel located on top of the cowl.

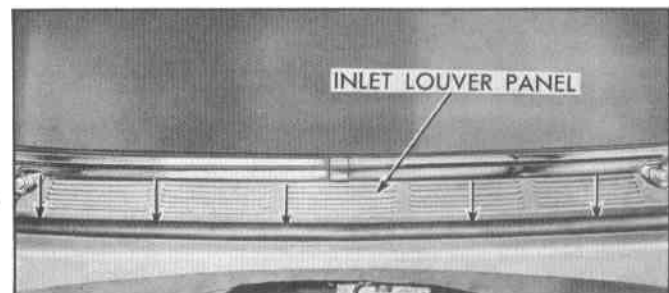
The air entering the inlet louver panel flows through a duct which guides the air into the body through an opening in each cowl side duct panel. The flow of air into the body is regulated by a valve in each cowl side opening. Each valve is adjusted by the use of a cable and control knob.

Water entering the inlet louver panel into the duct flows down the cowl side duct panel into a drain gutter. The gutter directs the water along the side of the cowl side opening and out of the body.



### AIR INTAKE LOUVER PANEL REMOVAL AND INSTALLATION

1. Remove the windshield lower reveal moldings as outlined on page 4.
2. Remove the lower reveal molding retaining clips located on the louver panel.
3. Lift up hood and remove screws indicated by arrows in the illustration, then, remove panel from body.
4. To install, reverse the removal procedure.

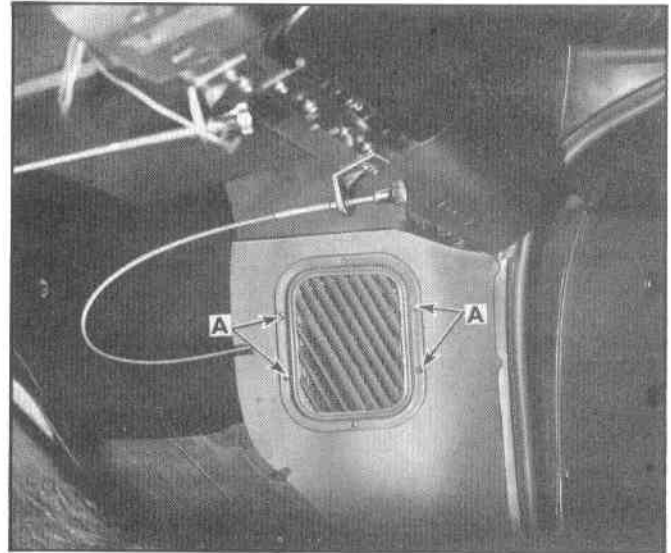


**COWL SIDE DUCT PANEL****AIR OUTLET GRILLE****REMOVAL AND INSTALLATION**

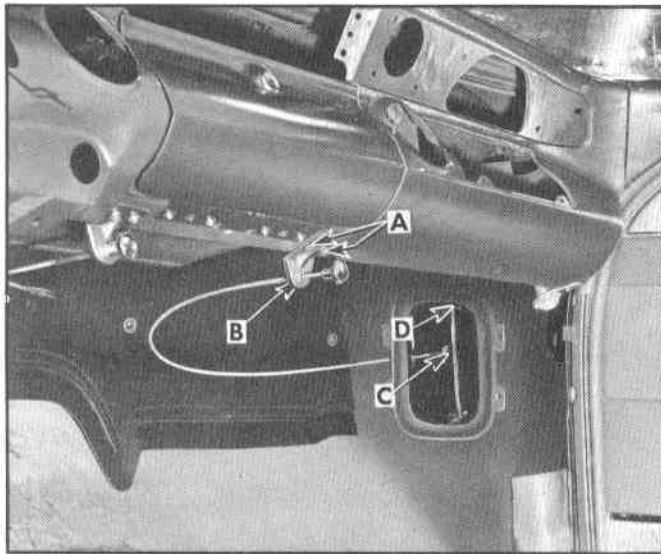
1. Remove the six (6) screws securing the grille to the cowl side foundation, and remove grille and screen.
2. To install, reverse the removal procedure.

**COWL SIDE FOUNDATION****REMOVAL AND INSTALLATION**

1. Bend open tabs securing panel along toe pan.
2. Remove four (4) screws "A" disengage rear edge from retainer and remove side foundation.
3. To install, reverse the removal procedure.

**AIR VENT CONTROL ASSEMBLY  
AND OUTLET DOOR****REMOVAL AND INSTALLATION**

1. Remove cowl side foundation.
2. Remove two (2) screws indicated at "A", or nut at "B".
3. Remove clips securing control cable, then disengage end of cable from door at "C" and remove from body.
4. To remove door from outlet, pry hinge pin at "D" downward and remove door. On left door, pry lower hinge pin upward to remove door.
5. To install, reverse the removal procedure.

**COWL SIDE DRAIN GUTTER**

A cowl side drain gutter is located on the right and left cowl side panel adjacent to the door opening as shown in the illustration below.

**REMOVAL AND INSTALLATION**

1. Remove the three (3) screws indicated by arrows and remove gutter.
2. To install, reverse the removal procedure. Apply body caulking compound between gutter and body metal as indicated at one (1) in inset. Be sure that seal is continuous at area marked "X".

