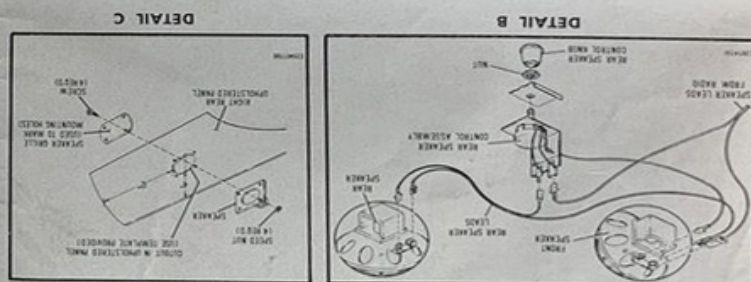


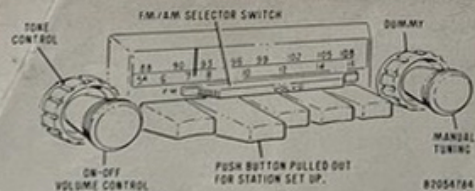
Part Number	Description	Qty
2056818-0002	Radio Assembly	1
2093190-0701	Bezel, Radio	1
4080927-0001	Antenna Assembly, 5" Front	1
2057765-0701	Speaker Assembly, 5" x 7" Rear	1
2092258-0509	Rear Speaker Control Assembly	1
2093220-1314	Nut, Hex, 3/8-32, Rear Speaker Control Mounting	1
2092825-0512	Cable Assembly, Rear Speaker	1
2092478-0001	Speaker Grille, Rear Speaker	1
2090424-0002	Screw, S-T, #8-15 x 1/2 Oval Phillips Head	4
2091584-0002	Rear Speaker Grille Mounting (142 and 144 only)	4
2090424-0002	Screw, S-T, #8-15 x 1/2 Oval Phillips Head	4
2091584-0002	Rear Speaker (145 only)	4
2093421-0702	Nut, Speed, #8 Flat	4
2091244-0002	Knob Assembly, Radio Control and Rear	3
2094480-0001	Disc, Tone Control and Dummy	2
2093220-1219	Nut, Hex, 1/2-28 Radio Mounting	2
2090002-0034	Washer, Flat, Radio Mounting Spacer	2
2091553-0001	Bracket, Radio Mounting	1
2092478-0001	Screw, S-T, #10-12 x 3/8 Hex Washer Head	1
2092485-0006	Mounting Bracket	1
2094348-0539	Seal, Plastic	1
274247-2	Nut, Stamped, 1/4-20, Mounting Bracket	1
2094348-0539	Fuseholder and Lead Assembly	1
2091811-0009	Fuse, 5 Ampere (AGA-5)	1
2091600-0003	Capacitor, Generator	1
2090639-0005	Ignition Switch	1
2093209-0022	Template Sheet	1
2093209-0023	Owner's Manual and Installation Instructions	1
2094729-0002	Booklet, "FM Facts"	1
2091201-0001	Warranty Tag	1

### PARTS LIST MODEL 7-8FBVOXO



Part Number	Description	Qty
2056818-0002	Radio Assembly	1
2093190-0701	Bezel, Radio	1
4080927-0001	Antenna Assembly, 5" x 7"	1
2092258-0509	Rear Speaker Control Assembly	1
2093220-1314	Nut, Hex, 3/8-32, Rear Speaker Control Mounting	2
2092825-0512	Cable Assembly, Rear Speaker	1
2092478-0001	Speaker Grille	1
2090424-0002	Screw, S-T, #8-15 x 1/2 Oval Phillips Head, Bezel	4
2091584-0002	Rear Speaker (145 only)	4
2093421-0702	Nut, Speed, #8 Flat	4
2091244-0002	Knob Assembly, Radio Control and Rear	3
2094480-0001	Disc, Tone Control and Dummy	2
2093220-1219	Nut, Hex, 1/2-28 Radio Mounting	2
2090002-0034	Washer, Flat, Radio Mounting Spacer	2
2091553-0001	Bracket, Radio Mounting	1
2092478-0001	Screw, S-T, #10-12 x 3/8 Hex Washer Head	1
2092485-0006	Mounting Bracket	1
2094348-0539	Seal, Plastic	1
274247-2	Nut, Stamped, 1/4-20, Mounting Bracket	1
2094348-0539	Fuseholder and Lead Assembly	1
2091811-0009	Fuse, 5 Ampere (AGA-5)	1
2091600-0003	Capacitor, Generator	1
2090639-0005	Ignition Switch	1
2093209-0022	Template Sheet	1
2093209-0023	Owner's Manual and Installation Instructions	1
2094729-0002	Booklet, "FM Facts"	1
2091201-0001	Warranty Tag	1

### PARTS LIST MODEL 7-8FBVOXO P1800 Series



### OPERATING INSTRUCTIONS

The ON-OFF SWITCH AND VOLUME CONTROL are combined on the left-hand knob. Initial clockwise rotation turns radio on; further rotation increases volume.

The TONE CONTROL can be adjusted to suit the listener's preference. Maximum treble is obtained when the tone control knob is turned fully clockwise. As the knob is turned counterclockwise bass response increases, reaching maximum at approximately 25-percent rotation with no loss in treble. Further counterclockwise rotation will reduce the treble but will not affect bass response.

The FM-AM SELECTOR, which switches the radio circuits to receive FM or AM stations, is the Volvo emblem located just below the dial.

NOTE: When using push buttons, the selector must be in the AM position. (See PUSH-BUTTON.)

1. Turn radio on—no "warm-up" period is as follows.
2. Set FM-AM selector to type reception desired.
3. Unlock push button by pulling it out.
4. Carefully tune in desired station with manual tuning knob.
5. Set and lock push button by firmly pushing it in.
6. Repeat above steps for each push button.

NOTE: When a push button is set up in a metropolitan area it is often difficult, due to the high signal strength of stations in these areas, to tune the radio to the exact frequency of the station. When proceeding away from a station the signal becomes weaker. Eventually, it may be necessary as described above. Once a push button is set in this manner, it will be set for the best possible reception under any signal condition.

**IMPORTANT:** The owner should familiarize himself with the information in the FM Radio Fact Booklet included in this kit.

## 1968 Volvo FM-AM Radio

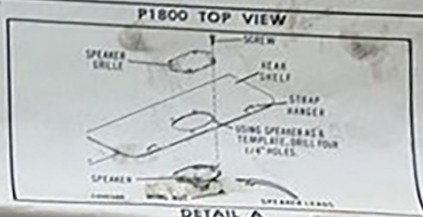
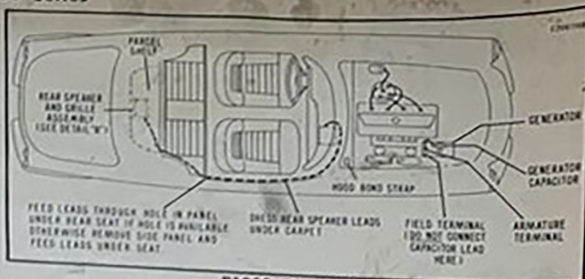
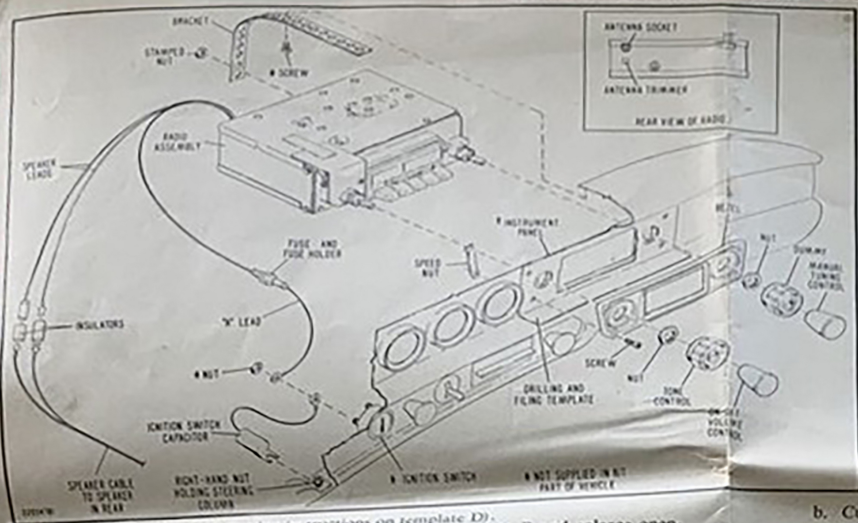
Owners  
Manual  
and  
Installation  
Instructions

Custom  
Built by  
Bendix for  
Volvo  
P1800 Sports Coupe  
142 and 144 Sedan  
145 Station Wagon

Push  
Button  
Tuning  
All  
Solid  
State

**Bendix** Automotive  
Electronics  
Division

# INSTALLATION INSTRUCTIONS P1800 Series



P1800 TOP VIEW

DETAIL A

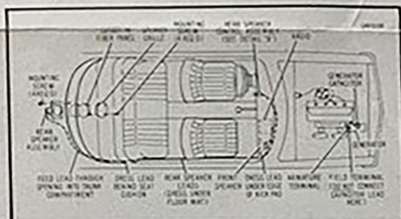
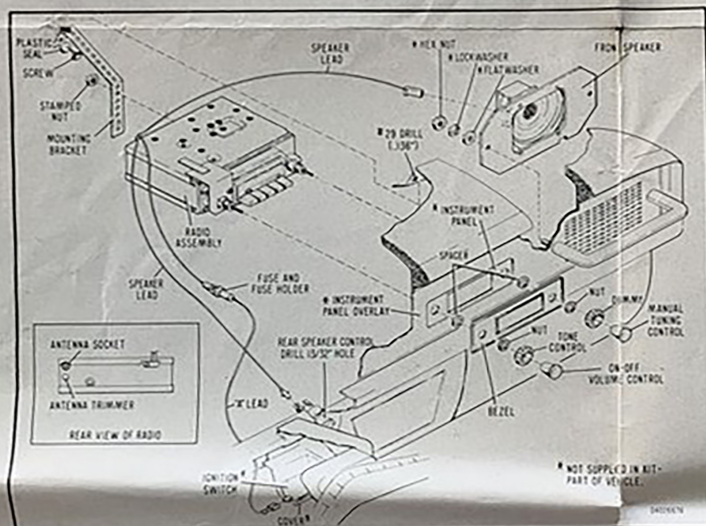
1. Install antenna (following instructions on template D).
2. Remove and discard radio opening cover. Use template B and enlarge openings to sizes indicated on template. Drill four 1/4" holes as indicated on template.
3. Attach bezel (top is marked) to instrument panel with four #8-15 x 1 oval Phillips head tapping screws and two #8 twin speed nuts.
4. Attach mounting bracket to instrument panel with existing screw. NOTE: Insert screw in tenth hole from end (with slot) and tighten securely.
5. Attach radio assembly to instrument panel and bezel. Secure with the two 1/2-28 hex nuts. Install tone discs and knobs. Fasten bracket to rear of radio with 1/4-20 stamped nut. NOTE: Operate windshield wiper and check for interference between moving crank and receiver. Proper use of template B and receiver rear mounting bracket will insure clearance.
6. Loosen screw on the right side of the steering column bracket and install ignition switch capacitor as shown. Tighten screw.
7. Connect A lead and ignition switch capacitor lead to accessory terminal of ignition switch (terminal nearest steering column). Insert fuse in fuseholder and connect to radio A lead.
8. Place an insulator tube over each speaker lead and connect leads to the speaker cable assembly. Slide insulator tubes over connections and tape in place if necessary.
9. Route speaker cable to rear compartment shelf as shown in top view drawing.
10. Install the speaker and grille to the rear shelf as follows:
  - a. Remove the rear shelf by removing the strap hangers on top surface and two screws on vertical surface.

- b. Cut out upholstery material covering existing speaker opening. Using speaker as template, drill four 1/4" mounting holes. Mount speaker and grille as shown in detail A.
  - c. It is necessary to cut a four inch square from floor insulating material to provide clearance for speaker magnet. Square is located on center line of car and to extreme rear of compartment.
  - d. Connect speaker cable to speaker. Replace shelf assembly.
11. Install generator capacitor as shown in top view of engine.
  12. Attach hood bond strap to the right corner of hood using #10 x 1/2 round head Phillips tapping screw as shown in top view.
  13. Plug in antenna lead and recheck all electrical connections as shown in detail drawings.
  14. Adjust the antenna trimmer as follows:
    - a. Adjust antenna height to 36 inches measured from mounting base to antenna tip.

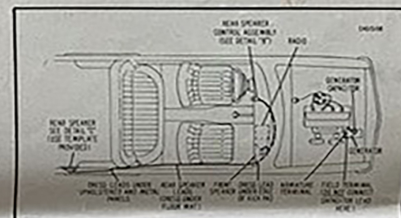
**IMPORTANT:** Satisfactory FM reception requires that antenna height be maintained at 36 inches. This height will also provide adequate sensitivity for AM reception provided the antenna trimmer is properly adjusted with antenna at this height.

b. With selector switch in AM position, turn volume control to maximum clockwise position and locate a very weak station (or random noise level between stations) between 1400 and 1600 KC. Adjust the antenna trimmer for maximum volume.

## INSTALLATION INSTRUCTIONS 142, 144, 145 Series



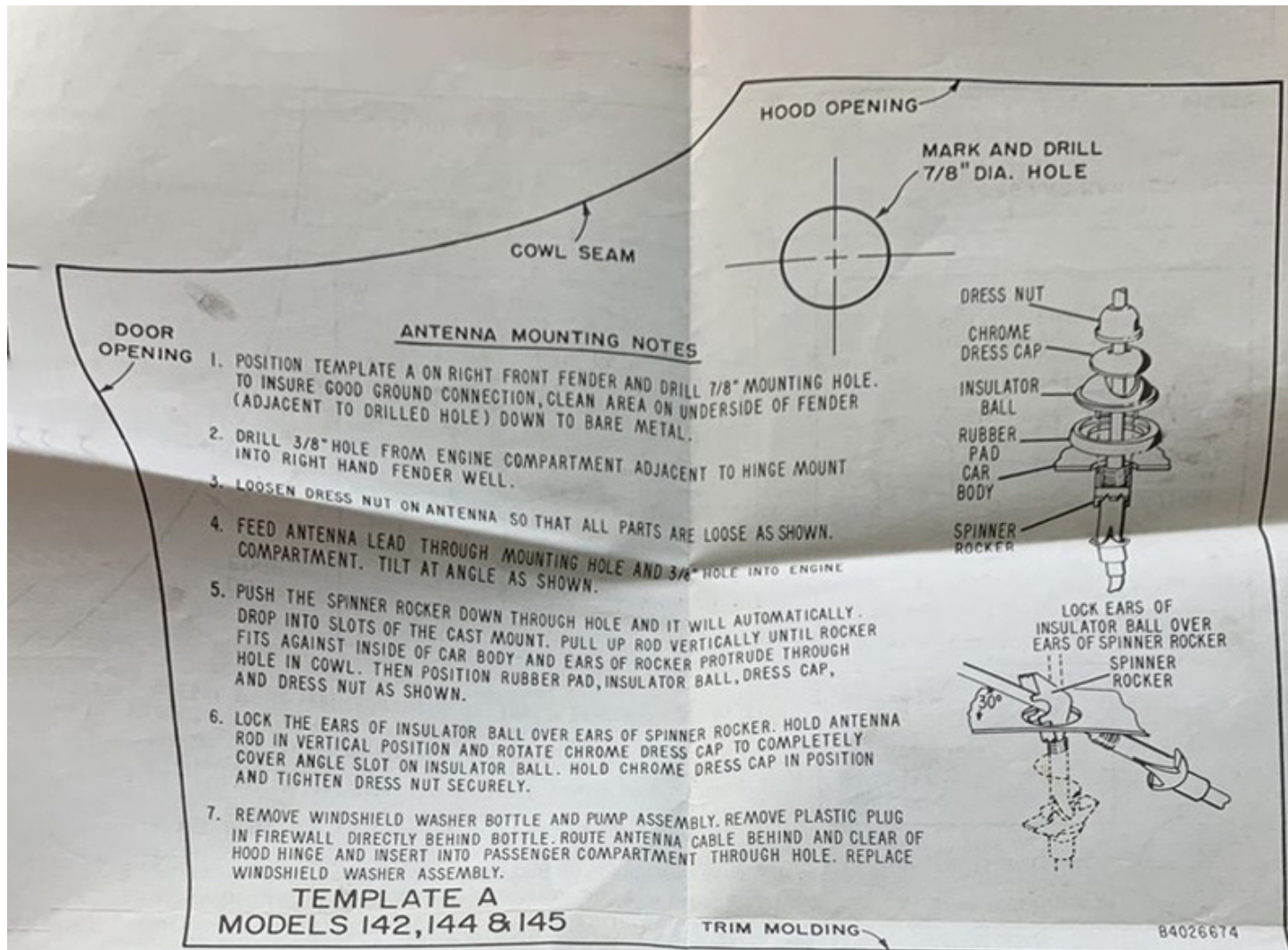
MODEL 142 AND 144 TOP VIEW



STATION WAGON MODEL 145 TOP VIEW

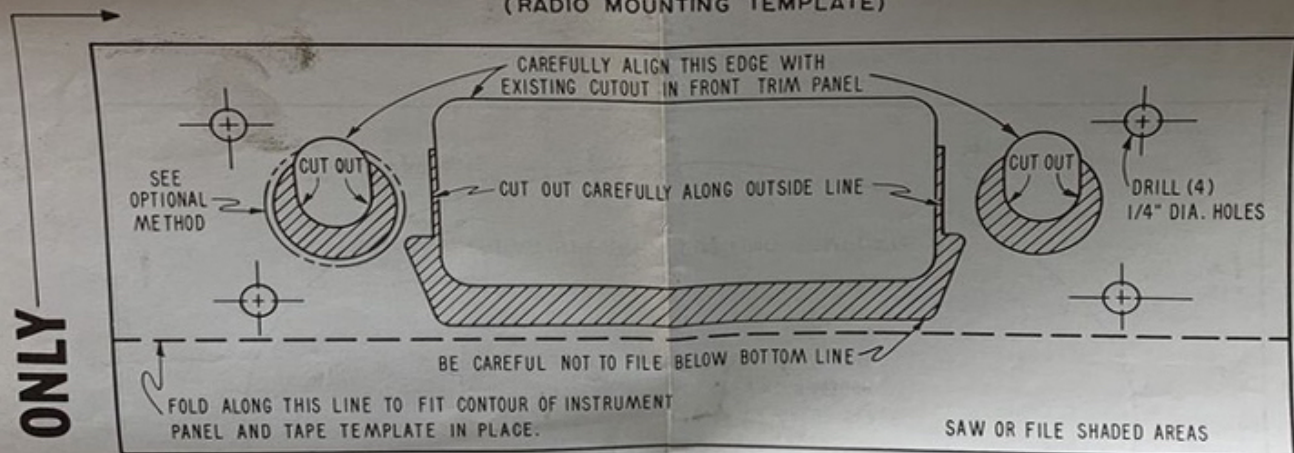
1. Install antenna (follow instructions on template A).
2. Remove and discard radio opening cover by cutting through perforations in instrument panel overlay with a sharp instrument and then prying cover off, being careful not to mar surrounding overlay.
3. Drill #29 (.136 dia.) hole for radio rear mounting bracket. Hole should be laterally approximately in center of radio mounting cutout and in firewall above and behind radio just above bend in sheet metal as illustrated.
4. INSTALL FRONT SPEAKER AS FOLLOWS:
  - a. Remove glove/map box to permit access to speaker.
  - b. Remove nut, lockwasher and washer from each stud on grab-handle.
  - c. Place speaker assembly (front) over grab-handle studs, making sure the speaker plate seats flush with dash panel surface.
  - d. Replace washer, lockwasher and nuts and tighten securely so that the grab-handle is firm.
5. Drill or cut a 13/32" hole for rear speaker control near the top edge of the underdash cover as illustrated. Install rear speaker control assembly using 3/8-32 hex nut. Install knob; dress lead from control assembly along back of instrument panel flange. Connect to speaker as per detail B.
6. Temporarily assemble radio to instrument panel. Form rear mounting bracket to approximate shape shown to fit between #29 hole drilled per step 3 and mounting stud on rear of radio. Cut off excess strap, if desired. Remove radio. Thread plastic seal all the way on a black #10-12 x 3/4 hex washer head tapping screw. Insert screw through hole in end of bracket so that seal on screw fits hole evenly. Fasten bracket to firewall.
7. Install radio from behind instrument panel. Place spacers on radio control shaft bushings. Install bezel overlay (top is marked) and secure radio and bezel with 1/4-28 hex nuts. Install tone discs and knobs. Fasten rear mounting bracket to radio with 1/4-20 stamped nut. CAUTION: Do not apply excessive torque. Use care so as not to mar finish of bezel.
8. Remove cover panel beneath ignition switch. Connect female terminal of fuseholder lead to male accessory terminal at bottom of switch. Replace ignition switch cover. Route lead behind lower instrument panel cover. Insert

- fuse into fuseholder and connect to radio A lead.
9. Plug in antenna lead. Connect radio speaker leads and rear speaker cable as shown in detail B.
  10. INSTALL REAR SPEAKER AS FOLLOWS:
    - a. Route speaker cable to trunk compartment as shown in top view drawing.
    - b. Use drill-and-knife or keyhole saw to cut oval speaker opening through fiber panel and upholstery material to match metal panel hole on rear deck.
- IMPORTANT: FAILURE TO CUT OPENING IN FIBER PANEL WILL DEGRADE TONAL QUALITY AND IMPAIR EFFICIENCY OF SPEAKER, THUS PREVENTING OPTIMUM PERFORMANCE OF RADIO.**
- c. Position 5 x 7 speaker on underside of rear deck with terminals facing right-hand side of car. Match speaker board mounting holes with outermost holes in metal panel and mount speaker with four 1/4-14 x 1/2 Phillips pan head tapping screws. For Model 145 Connect as per detail C.
  - d. Connect cable to speaker terminals.
  - e. Center speaker grille over hole cut in deck and assemble grille to fiber panel with four #8-15 x 1/2" oval Phillips head tapping screws. It may be necessary to use a sharp scribe or punch or a 1/16 dia. drill to make a small hole in order to start the screws. Do not over-tighten screws.
11. Install generator capacitor as shown in top view of engine.
  12. ADJUST THE ANTENNA TRIMMER AS FOLLOWS:
    - a. Adjust antenna height to 36 inches measured from mounting base to antenna tip. **IMPORTANT:** Satisfactory FM reception requires that antenna height be maintained at 36 inches. This height will also provide adequate sensitivity for AM reception provided the antenna trimmer is properly adjusted with antenna at this height.
    - b. With selector switch in AM position, turn volume control to maximum clockwise position and locate a very weak station (or random noise level between stations) between 1400 and 1600 KC. Adjust the antenna trimmer for maximum volume.

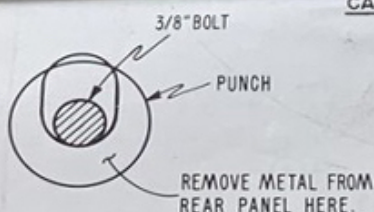


TEMPLATE A  
MODELS 142, 144 & 145

### TEMPLATE B VOLVO P1800 SERIES (RADIO MOUNTING TEMPLATE)



FM ONLY



OPTIONAL METHOD OF ENLARGING HOLES USING A 1" DIA. (OR LARGER) GREENLEE HOLE PUNCH

**CAUTION:** THIS TEMPLATE MUST BE ACCURATELY POSITIONED AND TAPED IN PLACE OVER THE EXISTING CUTOUT IN THE ALUMINUM TRIM PANEL ON THE INSTRUMENT PANEL. CUTOUTS IN BOTH THE TRIM AND INSTRUMENT PANELS MUST BE ENLARGED TO SIZES SHOWN BY SHADED AREAS. SHADED AREAS ARE MINIMUM AND MAY BE ENLARGED SOMEWHAT FOR CONVENIENCE EXCEPT THAT IF BOTTOM EDGE OF DIAL OPENING IS FILED BELOW LINE THE RADIO BEZEL MAY NOT COVER THE OPENING.

FAILURE TO OBSERVE ABOVE INSTRUCTIONS MAY RESULT IN INTERFERENCE BETWEEN RECEIVER AND MOVING WINDSHIELD WIPER CRANK.

84026674

8402667

## TEMPLATE C MODEL 145

- ① PUNCH OUT FOUR 1/4" DIA. MOUNTING HOLES THROUGH TEMPLATE.
- ② POSITION TEMPLATE OVER MOUNTING HOLES AND TAPE IN PLACE.
- ③ USE A SHARP KNIFE OR RAZOR BLADE TO CUT SPEAKER OPENING THROUGH TEMPLATE AND FIBER PANEL ALONG THIS LINE.

REAR SPEAKER CUTTING TEMPLATE

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## TEMPLATE D VOLVO P1800 SERIES

### ANTENNA MOUNTING NOTES

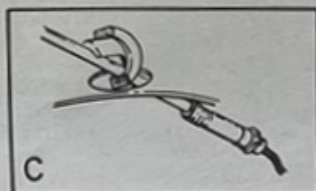
1. POSITION TEMPLATE ON RIGHT FRONT FENDER WITH BOTTOM EDGE ON FENDER TRIM AND CURVED EDGE AT DOOR EDGE (SEE INSET "A" BELOW). MARK AND DRILL A 1" DIA. HOLE.
2. FROM INSIDE CAR, DRILL 5/8" DIA. HOLE AT POSITION SHOWN IN INSET "B" BELOW.
3. FEED ANTENNA CABLE THROUGH 1" HOLE IN FENDER AND THROUGH 5/8" HOLE TO INSIDE OF CAR. SEAT GROMMET IN 5/8" HOLE.

**NOTE:** IF NECESSARY, THE RIGHT FRONT MUD GUARD CAN BE REMOVED TO GAIN ACCESS TO THE FENDER WELL.

4. TILT ANTENNA ROD AND PUSH BOTTOM SUPPORT THROUGH HOLE IN FENDER (SEE INSET "C") THEN PULL ANTENNA ROD UP VERTICALLY UNTIL BOTTOM SUPPORT FITS AGAINST UNDERSIDE OF FENDER.
5. LOCK THE EARS OF THE CHROME MOUNT OVER BOTTOM SUPPORT. HOLD ANTENNA ROD IN VERTICAL POSITION AND TIGHTEN DRESS NUT SECURELY.

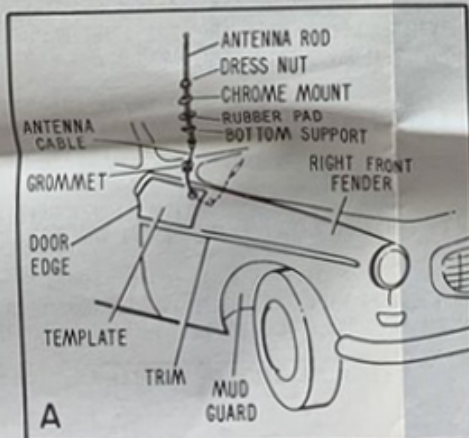
MARK AND DRILL 1" DIA. HOLE

**IMPORTANT**  
TO INSURE GOOD GROUND CONNECTION, CLEAN AREA ON UNDERSIDE OF FENDER (ADJACENT TO DRILLED HOLE) DOWN TO BARE METAL.

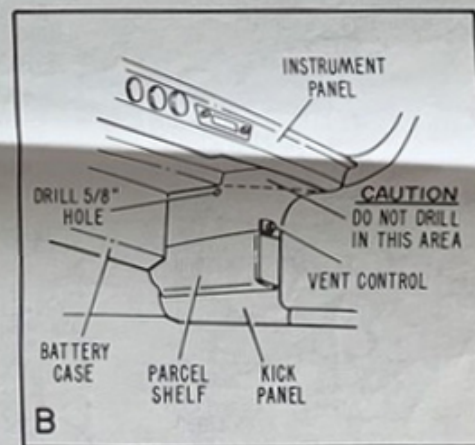


C

DOOR  
EDGE



A



B

FENDER TRIM  
1966 AND EARLIER

FENDER TRIM

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