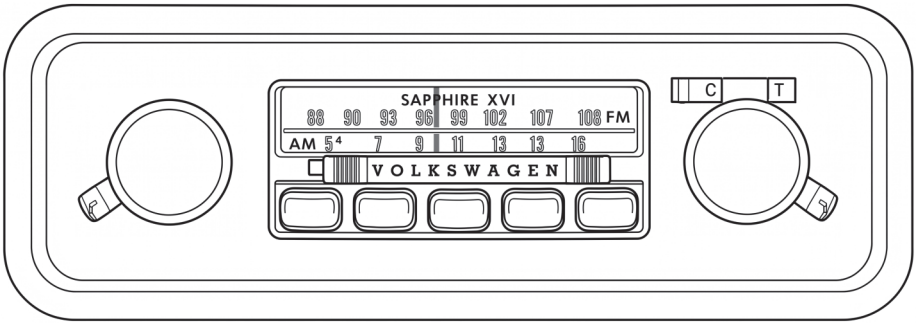
INSTALLATION INSTRUCTIONS

ALL TRANSISTOR STEREO AM-FM RADIO SAPPHIRE XVI BY MOTOROLA



CUSTOM BUILT
for
VOLKSWAGEN

MOTOROLA INC., 9401 W. GRAND AVE., FRANKLIN PARK, ILL.

Par No. 68P43318A98-0 (1VW2114/1VW2116) Prin ed in U.S.A.

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INSTALLATION INSTRUCTIONS

1. INSTALL ANTENNA

   a. Use template provided to locate antenna mounting holes, and drill holes as indicated on template. To insure good grounding, the surface underneath the antenna opening must be scraped to bare metal. Scraped area should extend about 3/8" beyond the antenna opening. (Poor grounding will result in excessive static noise.)
   b. Install antenna as shown in Figure 1.
      NOTE: The antenna supplied is a low capacity type. The use of a substitute antenna is not recommended.

2. INSTALL FRONT SPEAKERS

   a. Remove door trim panel from right front door.
   b. Cut speaker opening and drill four 5/16" diameter holes in door trim panel at location indicated in Figure 2 using template provided as a guide.
   c. Drill a 3/8" hole at the location indicated in Figure 2 to permit routing of lead from speaker extension cable.
   d. Mount speaker, screen, and grille to door trim panel.
   e. Place connector of speaker extension cable behind instrument panel at radio opening. (See Figure 4.)
   f. Route purple-orange lead of speaker extension cable to right front door as indicated in Figure 2. Place grommet over lead and continue routing lead as indicated. Fit grommet into 3/8" hole.
   g. Connect lead to terminals on speaker and re-install door trim panel to door.
   h. Install second speaker into left front door in a similar manner described above. (Use purple-white lead.)

3. INSTALL RADIO (FIGURE 1)

   a. Disconnect battery.
   b. Remove and discard radio opening cover.
   c. Attach trim bezel to radio with the two 3/8" hex nuts, being careful that the switch lever properly engages the groove in the slide bar of the trim bezel. Press control knobs on to radio control shafts.
   d. Partially insert radio through radio opening. Carefully push radio forward until spring clips just touch sides of radio opening. Next, press left side of radio into opening so that left spring clip snaps into place, then press right side of radio into opening so that right spring clip snaps into place. (If spring clips do not snap into place, pull off radio control knobs and back off the 3/8" nut on each control shaft until spring clips can be snapped into place. Retighten 3/8" nuts and replace knobs.)

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e. Place slotted end of radio mounting bracket on stud at rear of radio and other end of bracket over existing hole in left arm of brake handle support bracket. Secure mounting bracket to support bracket with # 10X3/8 screw. Attach 1/4" locknut to stud.
IMPORTANT: Radio mounting bracket **MUST** be installed. Failure to install bracket will result in poor grounding and lead to excessive static noise.

4. MAKE ELECTRICAL CONNECTIONS (FIGURE 1)

a. Connect speaker leads.
b. Plug antenna lead into receptacle on rear of radio.
c. Connect radio power lead (black) to emergency flasher as indicated in Figure 3. **CAUTION:** Be sure power lead is routed away from ventilation control linkage.
d. Connect ground lead as indicated in Figure 5.
e. Reconnect battery.

5. ADJUST ANTENNA TRIMMER

a. Extend antenna height to 30".
b. Turn radio on for AM operation.
c. Turn tuning knob clockwise (right) until station pointer stops. Radio is now tuned to the upper extreme of the AM frequency band - 1610KHz.
d. Turn volume control and tone control completely clockwise. A weak station or hissing sound (random noise) will be heard. However, if a station comes in relatively strong at this point on the frequency band, turn tuning knob slightly counter-clockwise (left) so that a weak station or random noise is heard.
e. Detach tuning and balance knobs to uncover antenna trimmer access hole.
f. Adjust antenna trimmer screw until maximum (peak) volume of random noise and/or weak station is heard. (See Figure 1 for location of antenna trimmer screw.)
g. Reattach balance and tuning knobs.

6. INSTALL NOISE SUPPRESSION EQUIPMENT

a. Mount generator condenser as shown in Figure 6.
CAUTION: Failure to install this condenser may result in noisy radio reception after normal generator wear.

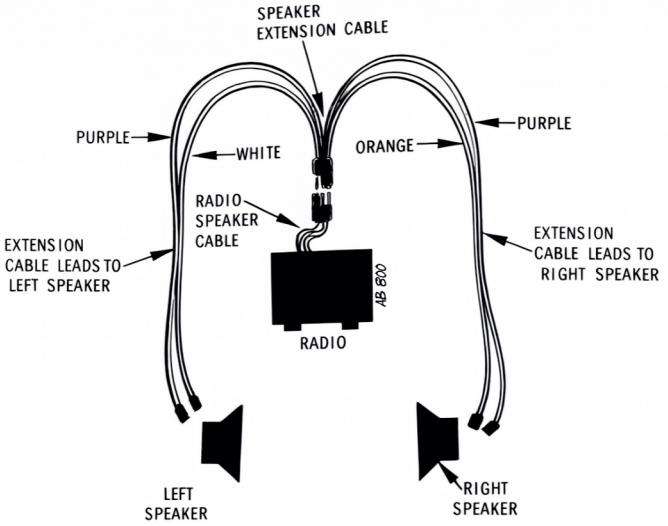


FIGURE 4

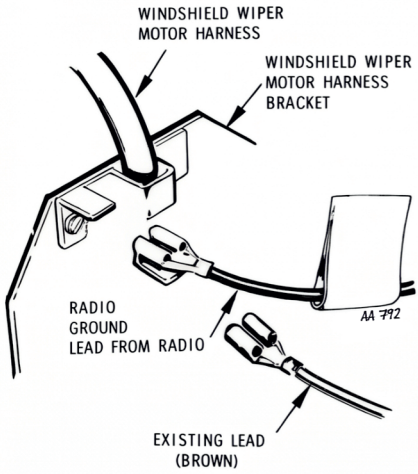


FIGURE 5

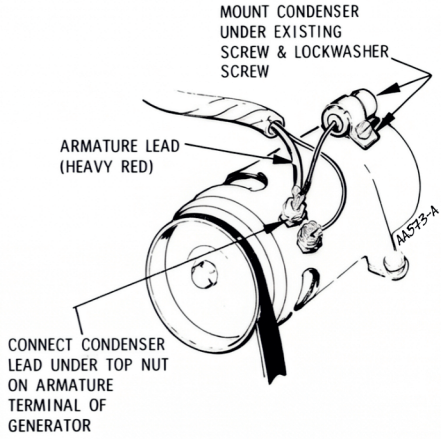
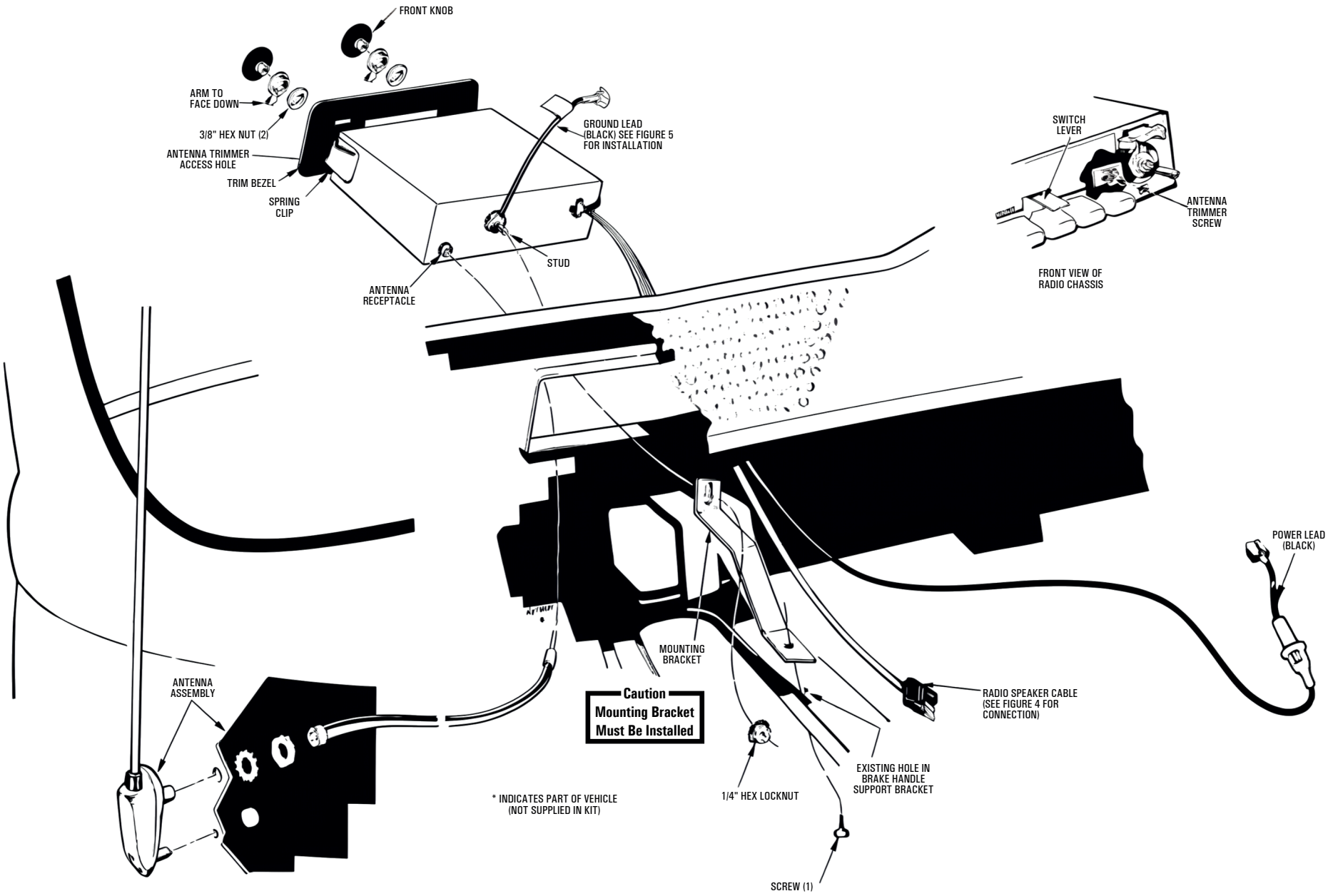
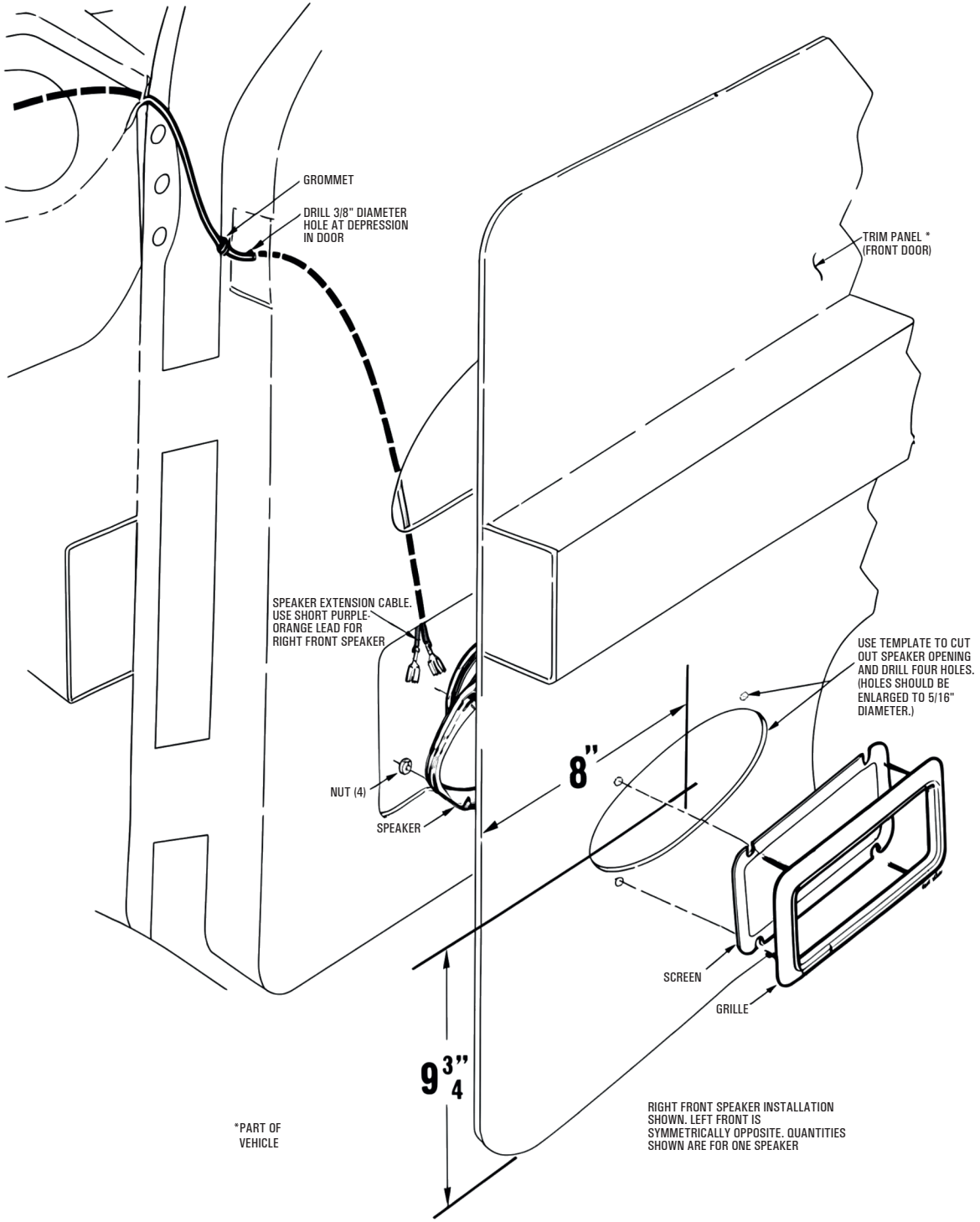


FIGURE 6

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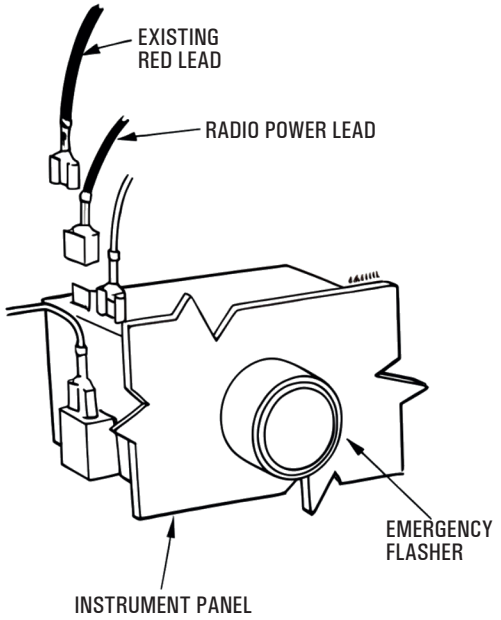


FIGURE 3

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