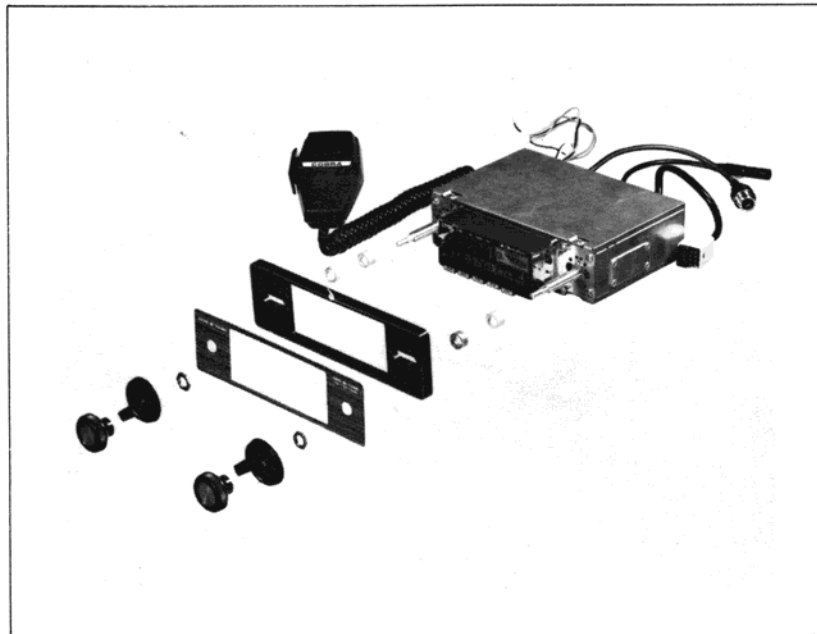


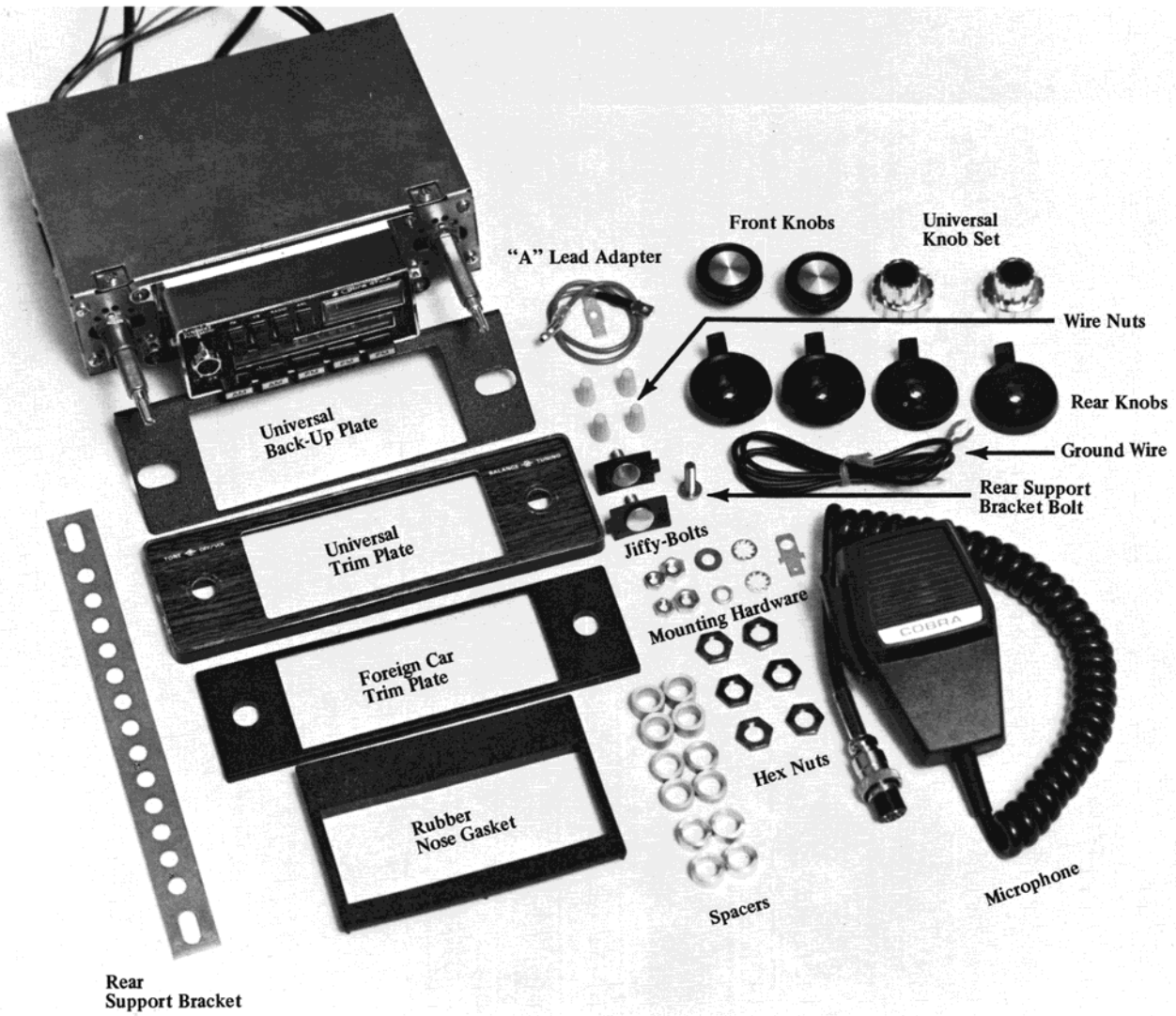


INSTALLATION MANUAL
FOR
COBRA IN-DASH XLR MODELS



COBRA COMMUNICATIONS
DYNASCAN CORPORATION

6460 W. Cortland Street
Chicago, Illinois 60635



Parts Included with Your COBRA XLR In-Dash Radio

INTRODUCTION

This step-by-step manual was designed to help you make the best installation possible. Please study it carefully at least once before proceeding with your installation.

Also, before proceeding with the installation, consider certain variables regarding your particular installation. If your car has air conditioning with centered air ducts, they should be removed; wiring harnesses, braces, etc., also should be removed before attempting to install your COBRA XLR radio.

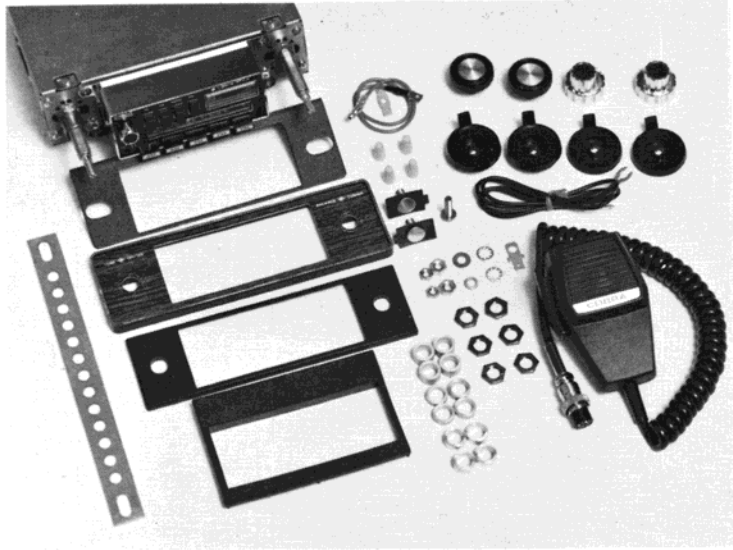
Finally, study the exploded view of parts on the front cover and the parts layout on cover 2. Familiarize yourself with the identity and function of each part before proceeding with your installation.

If you follow these instructions carefully, you will do a professional job that you will be proud of – and you will enjoy your COBRA XLR in-dash radio for many years to come.

INSTALLATION PROCEDURE

() STEP 1: PARTS DISPLAY

Before you do anything else, remove all the parts from the COBRA XLR In-Dash Radio and lay them out neatly. Study them and become familiar with them, so that as installation proceeds, you will be able to readily identify them and understand their function in the installation.



() STEP 2: TOOLS NEEDED

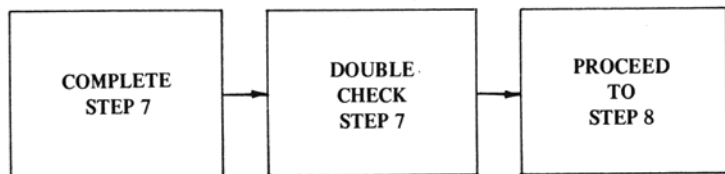
Make certain you have the following basic tools before you begin installation:

- () A. 9/16" deep-well socket nut driver.
- () B. Pair of pliers.
- () C. Standard flat-blade screwdriver.
- () D. Flashlight or trouble light.



() STEP 3: DOUBLE-CHECK EACH COMPLETED STEP

At every step in the installation, it is wise to double-check the step you have just completed—before continuing on to the next step.



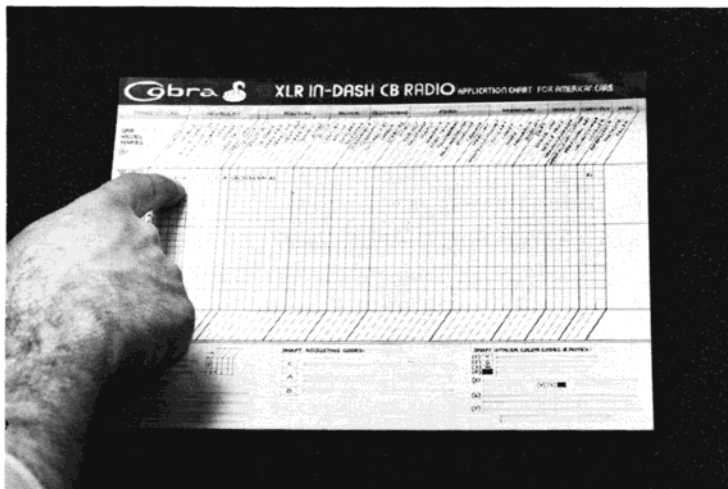
() STEP 4: SAFETY PRECAUTION

To eliminate the possible danger of shorted wires as you work, disconnect the car battery. Removing one battery cable is sufficient.

() **STEP 5: REFER TO APPLICATION CHART**

Locate the year, make and model of your car on the Application Chart furnished.

- () A. If your car is noted as "OK" or "OK" followed by 1 or 2, continue with your installation.
- () B. If your car is noted as "OK" followed by the number 3, read the "SPECIAL NOTE" column to determine if a special kit is required for your installation. If yes, do not proceed until you have read and understand the instructions in the kit. These kits and custom knobs are available from your COBRA dealer.



NOTE: SOME STEPS MAY NOT APPLY

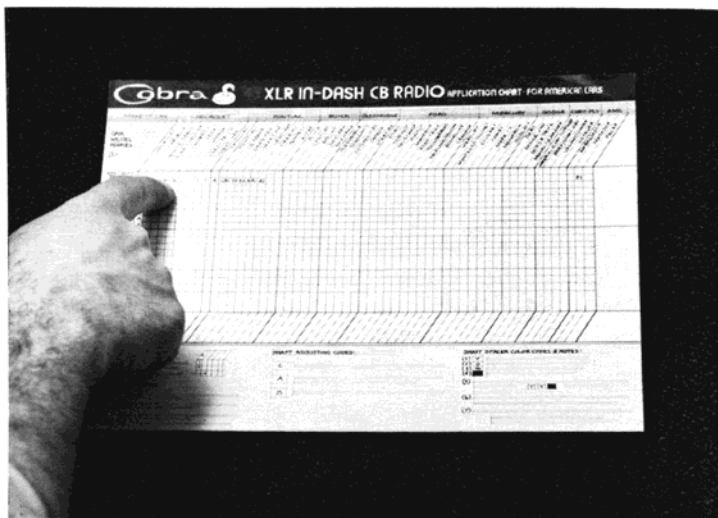
Since not all cars are alike, the steps required to install an in-dash radio varies from car to car. Therefore, not all of the steps in these installation instructions will apply to your particular installation. You will be advised when to by-pass certain steps, as we go along.

Right now, we should tell you that if your car has an existing radio, you should skip to STEP 7.

() **STEP 6: NO EXISTING RADIO IN CAR**

If your car does NOT have a radio already installed in it, follow the instructions below:

- () A. Check the Application Chart to see if your COBRA XLR In-Dash radio can be installed in your car. **NOTE:** If the number 1 or 2 follows the "OK," you will be able to install the COBRA XLR without a Special Kit.
- () B. If the chart indicates the COBRA XLR can be installed in your car, you will have to find the existing radio opening in the dash. Usually, it is covered with a removable "dummy" plate. It may be 2" to 3" high and 5" to 7" wide—and is located either near the driver's section of the dash, or at the center of the dash.



- () C. After locating this dummy panel, you must remove it to gain access to the radio opening. Determine if the panel is removable by removing a screw located either on the front side, or rear side, behind the dash.

NOTE: DO NOT PRY THIS PANEL OFF until you have removed all screws securing it in place.

- () D. If you have determined that the dummy panel is of the pull-off type (not secured by screws), use your fingers to pry it off. **PULL IT STRAIGHT TOWARD YOU.** Please do NOT use a tool such as a screwdriver or knife—they might mar your dash when pressure is applied.

- () E. After the panel is removed, discard it.

() **STEP 7: REMOVING THE OLD RADIO FROM DASH**

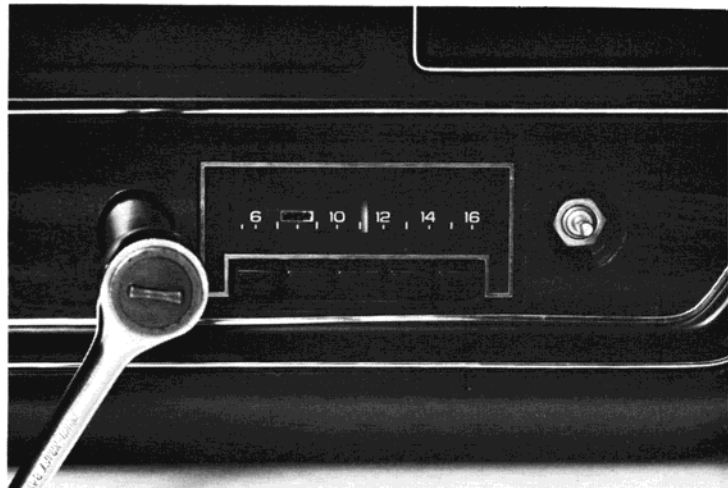
There are just two ways of removing a radio already installed in your car: (1) from behind the dash, and (2) through the front of the dash. STEPS 7-10 apply to both types of removal.

The first step in removal of the old radio is to remove the knobs from the front of the radio, to gain access to the hex nuts that secure the radio shafts to the dash. Once you remove them (unless instructed otherwise), you may discard the old knobs.



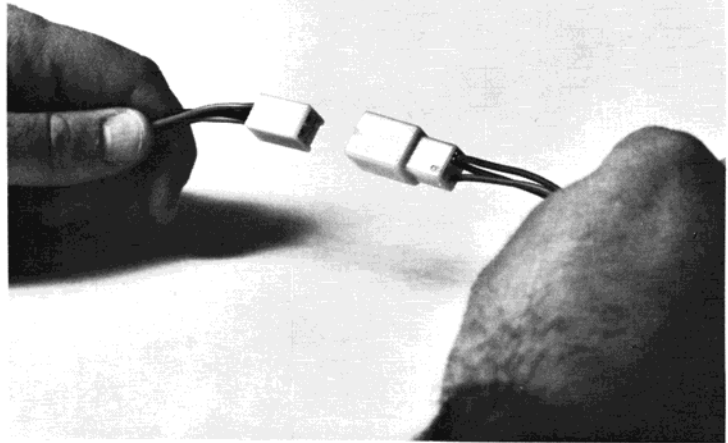
() **STEP 8: REMOVE MOUNTING NUTS**

Place your 9/16" deep-well socket nut driver over the shafts and remove the mounting nuts. **NOTE:** If your shaft mounting nuts are not 9/16", use a pair of pliers.



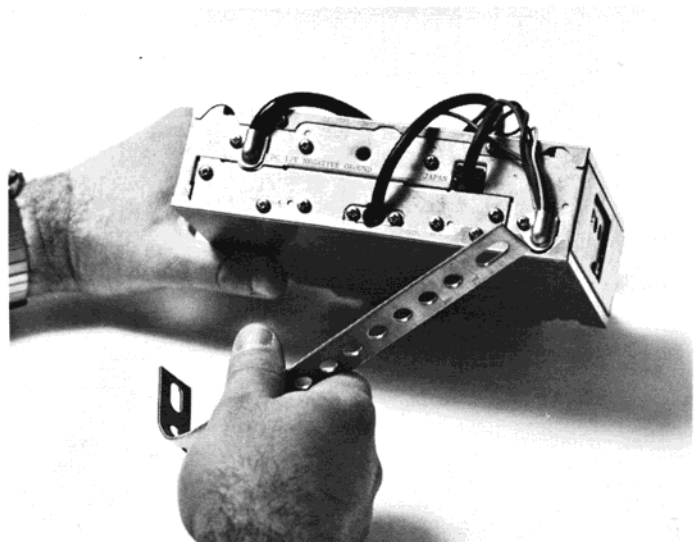
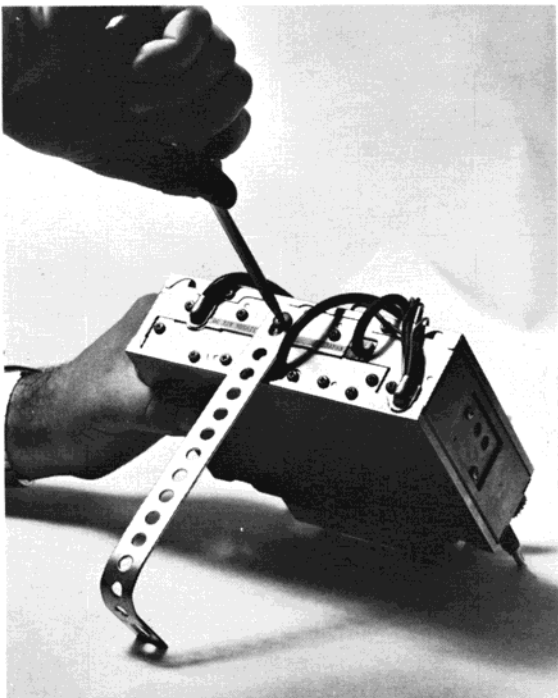
() **STEP 9: DISCONNECT EXISTING WIRES FROM RADIO**

Locate the speaker wires and the hot lead wires from the existing radio and disconnect them. **NOTE: DO NOT CUT THEM**—they will be re-used later with your COBRA XLR.



() **STEP 10: REMOVE EXISTING RADIO SUPPORT BRACE**

Locate and remove the metal or plastic support brace from the radio. If you wish, you may re-use this brace to support the COBRA XLR.



() **STEP 11: RADIO REMOVAL (Rear Type)**

If you have determined that the existing radio can be removed through the rear of the dash, pull the chassis firmly away from the opening. If the radio can be removed in this way, skip to STEP 14. However, if you find it cannot be removed this way, then it must be removed through the front of the dash; proceed to next step.

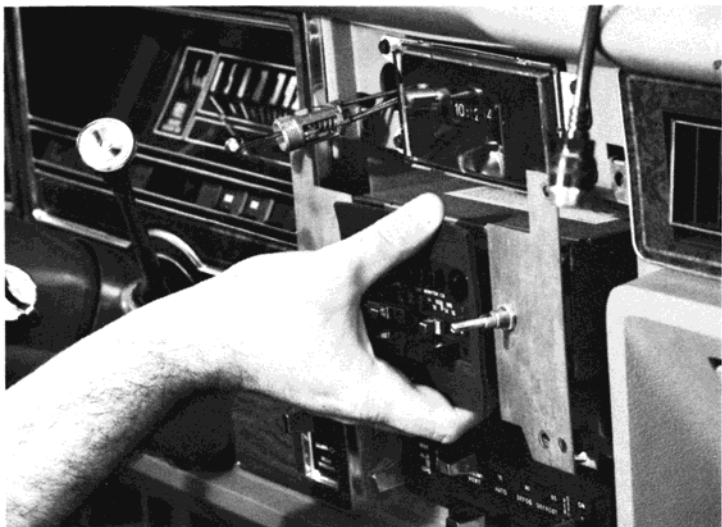
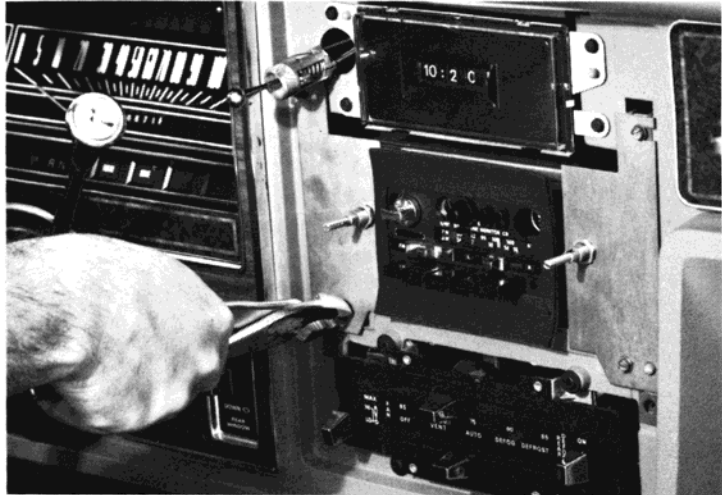


() **STEP 12: RADIO REMOVAL (Front Type)**

If you have determined that your old radio removes through the front of the dash, remove the screws (two or more) securing the radio dash panel in place. Then remove the trim panel. **SAVE ALL SCREWS AND TRIM PANEL FOR LATER RE-USE.**

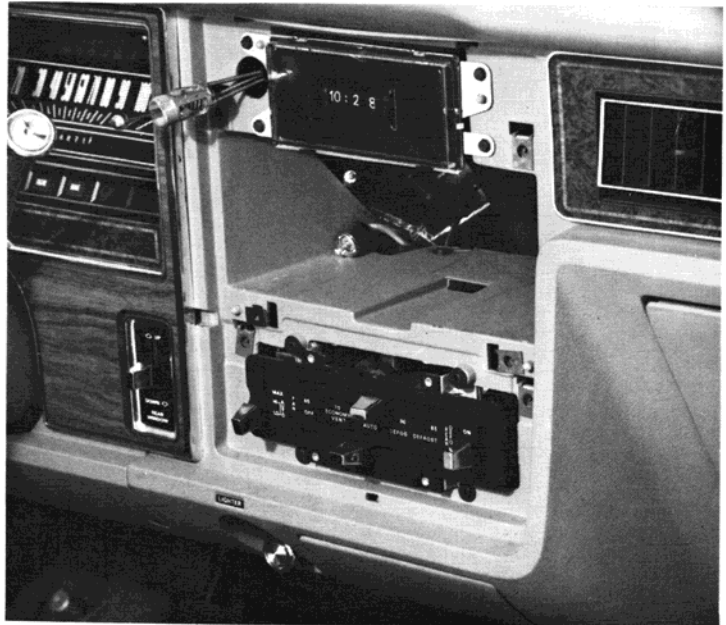
() **STEP 13: REMOVE RADIO MOUNTING PLATE AND RADIO**

Behind the trim panel removed in STEP 12, locate the vertical metal support plate which holds the radio. Remove the screws securing the plate and pull it forward, out of the opening. The radio, being attached to the plate, will come forward with the plate.

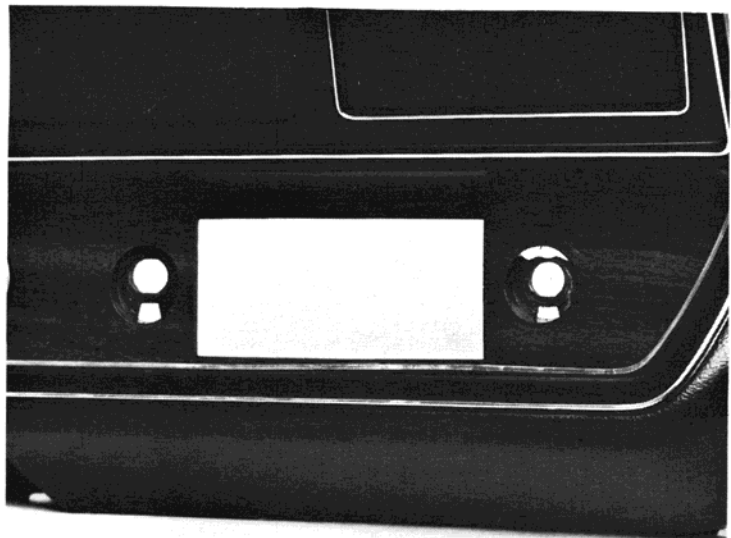


() **STEP 14: STARTING THE INSTALLATION OF YOUR COBRA XLR**

Now that your old radio has been removed, you are ready to install your new COBRA XLR radio.



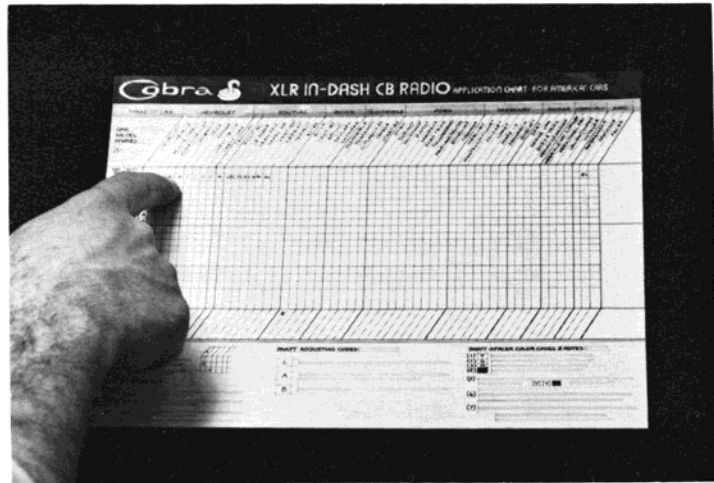
Typical dash opening for front-removal radio.



Typical dash opening for rear-removal radio.

() **STEP 15: CHECK APPLICATION CHART FOR CORRECT SHAFT POSITIONING**

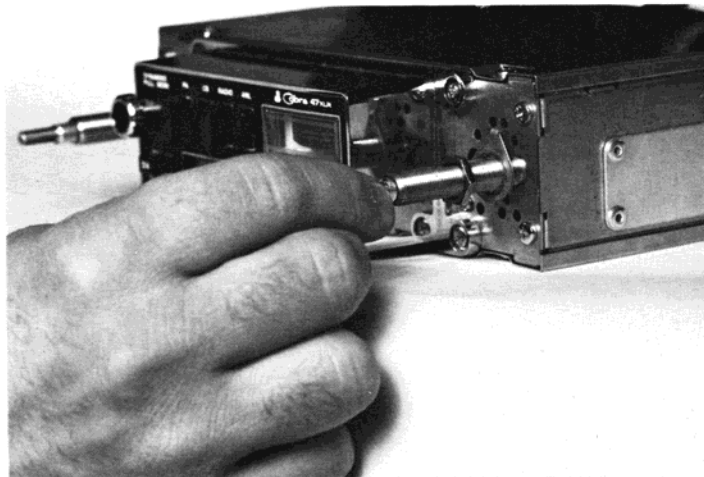
If the Application Chart shows your car coded with a blue "OK" block, no further adjustments are necessary and you may skip to STEP 17. However, if the chart code for your car is a red or white block, proceed to next step.



() **STEP 16: SHAFT ADJUSTMENT**

- () A. Loosen, but do not remove, the hex nuts on the left and right shafts of the XLR radio.
- () B. Locate tab washer shown in photo. If your application code was colored red, place the long leg of the tab washer in the holes marked "5"; place the short leg of the tab washer directly above.

If your application code was white, place the long leg of the tab washer in hole No. 2 and short leg in the hole directly below.



- () C. Re-tighten the hex nuts on both sides firmly, using 9/16" nut driver. **NOTE:** Check to make sure that both shafts are set to the same positions. Proceed to next step.

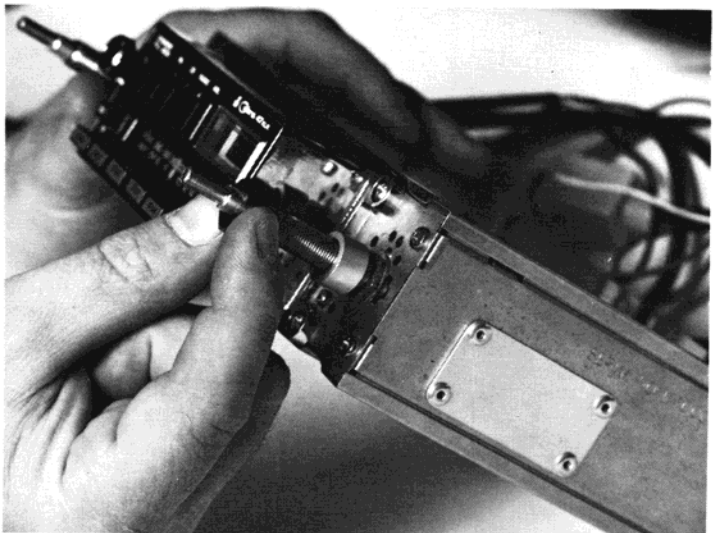
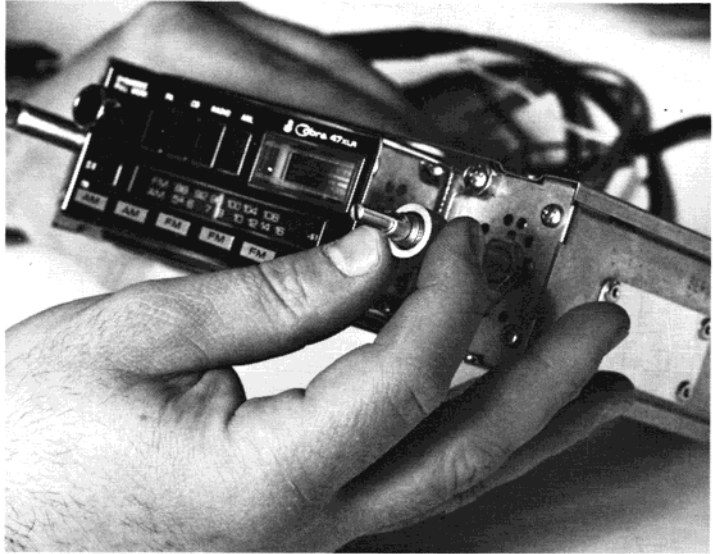
() **STEP 17: INSTALLING THE SHAFT SPACERS**

In the parts kit, find the plastic bag with letter-coded spacers in it.

Check the Application Chart. Next to your particular application on the chart are the properly matched letters of your spacers. The left and right shafts are shown on the chart; to position them correctly on the shafts, follow the sequence on the chart.

NOTE: The last spacer to be installed on the shaft always is the black hex nut, which should be tightened securely.

If NO letter codes are shown for spacers in your application on the chart, use different combinations of letters and black hex nuts until the nose piece of the COBRA XLR radio is flush with the back of the dash when the radio is behind the dash.

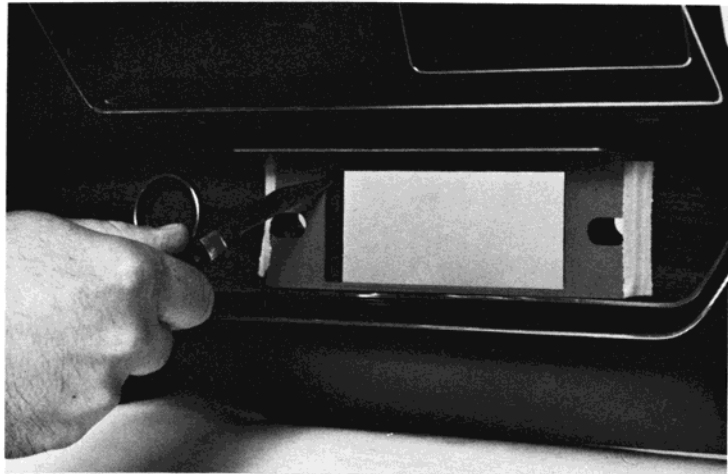


() **STEP 18: ENLARGEMENT OF DASH OPENING ("OK 2" CODING)**

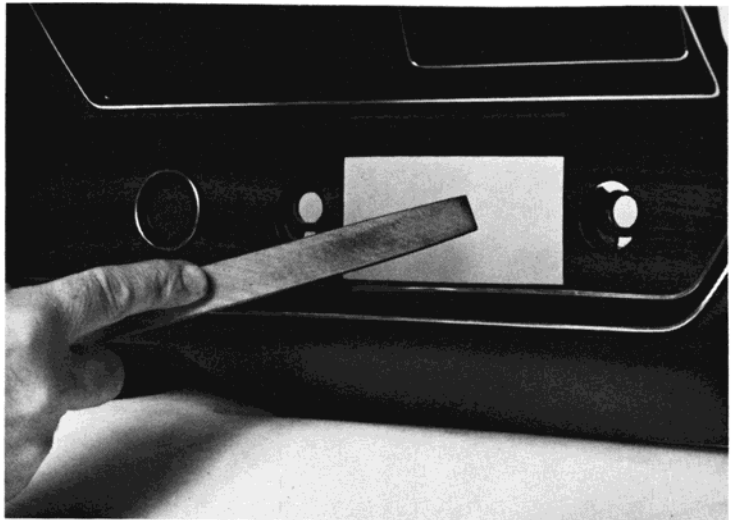
The following instructions are for use with the application code "OK 2." All other applications that have been acknowledged on the Application Chart should proceed with STEP 21 or 22, depending upon whether installation is to be made from *rear* or *front* of dash.

Use extreme caution in following these steps.

- () A. Check behind dashboard for obstructions before cutting or filing.
- () B. Furnished with the COBRA XLR parts are a metal back-up plate and two universal trim plates of different sizes. You may use two or three of these parts, depending upon your installation.



- () C. Place the metal back-up plate over the existing openings on the front of the dash. Note that the plate openings are LARGER than the dash openings.
- () D. Use the back-up plate as a template and mark the cut line for the nose piece and shafts, over the opening on the dash. Remove the back-up plate.
- () E. Carefully file the existing opening to the new marks of the larger opening. DO NOT FILE BEYOND THE MARKS; the trim plate may not cover an over-size hole in the dash.



() STEP 19: INSTALLING YOUR COBRA XLR BY THE UNIVERSAL METHOD

Refer to the photo and place the universal back-up plate over the front of the XLR in-dash radio, as shown.

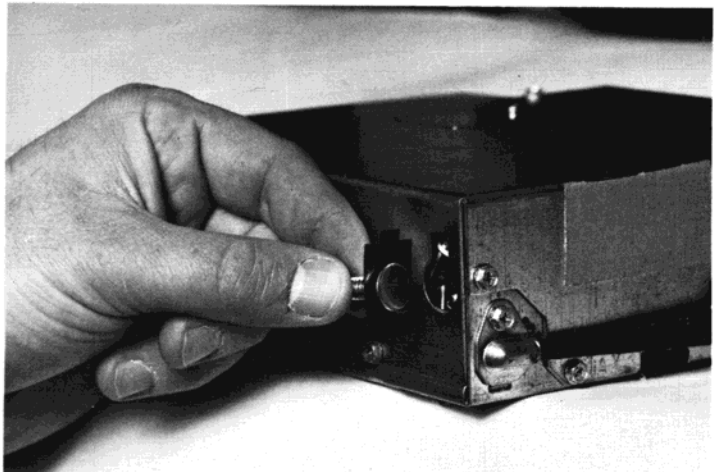
Secure this plate in position with two hex nuts included in the hardware package.



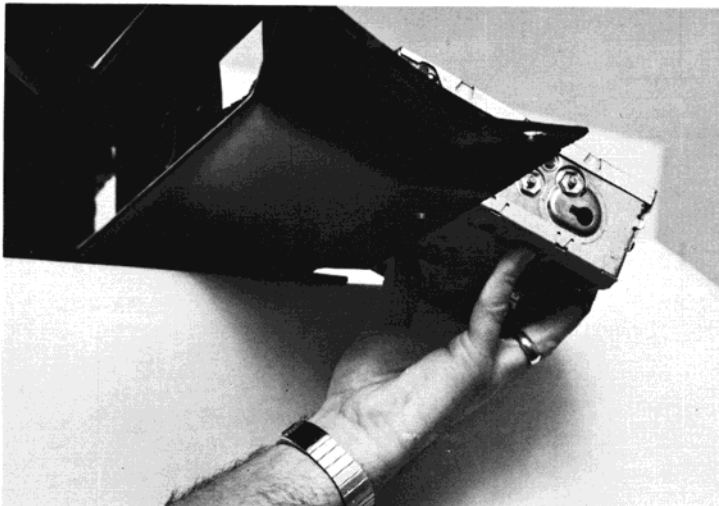


() **STEP 20: INSTALLING THE COBRA XLR IN THE DASH (Universal Method)**

- () A. Turn radio around and locate the mounting hole you wish to use. If you want to support-mount the radio on the direct rear of the chassis, use the threaded mounting holes provided.
- () B. Also provided are jiffy-bolt key-hole slots for side-support mounting. Place bolts as shown.



- () C. Place radio in position by keeping one hand on rear of chassis and carefully insert unit through rear of dash until shafts and nose piece are through the front of the dash.



- () D. Decide which trim plate is to be used and insert it over the front of the dash opening.



- () E. Using two additional hex nuts, secure the XLR in-dash radio and trim plate to the dash as shown. Tighten by HAND ONLY.



() **STEP 21: INSTALLING THE COBRA XLR FROM BEHIND THE DASH**

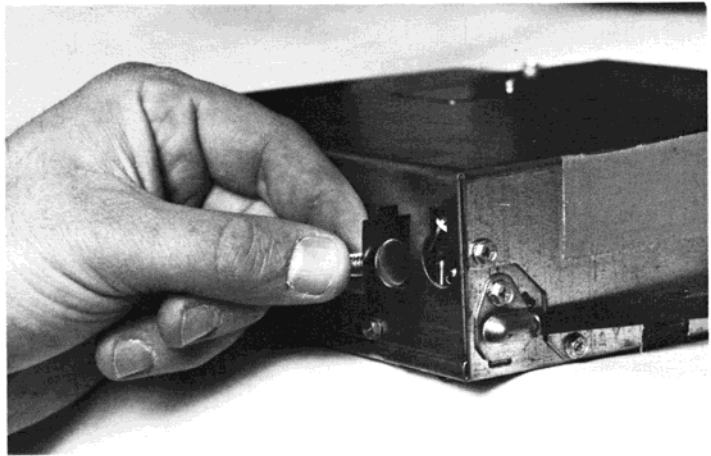
NOTE: If you have completed installation by the universal method, skip to STEP 23.

If you must install the radio from behind the dash, follow these instructions:

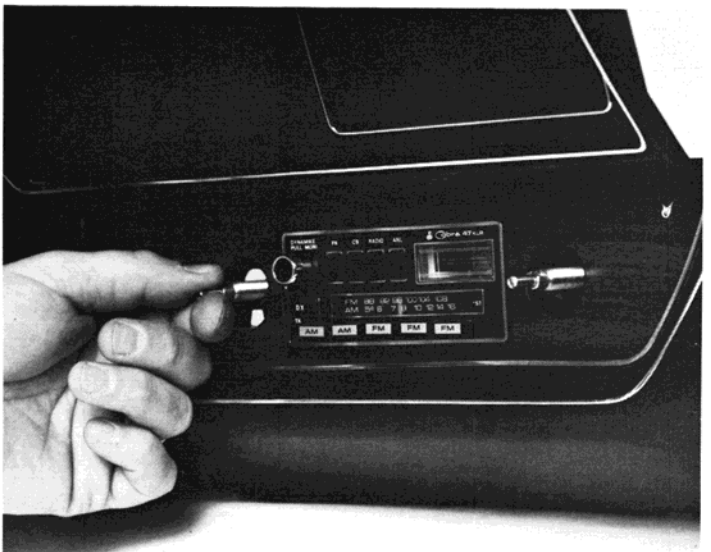
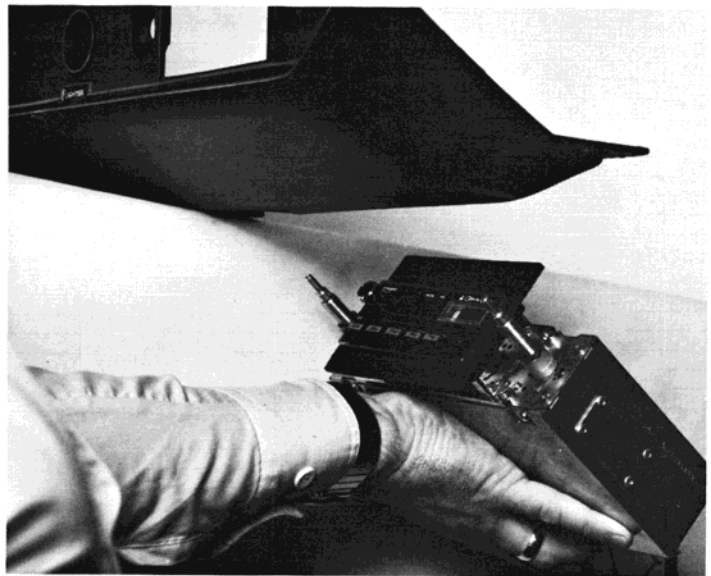
- () A. Locate rubber nose gasket furnished and place over nose piece as illustrated.



- () B. Place mounting stud or jiffy-bolt on side of radio that is to be mounted as shown.



- () C. Position radio behind dashboard and slide into opening until shafts and nose piece come through front.



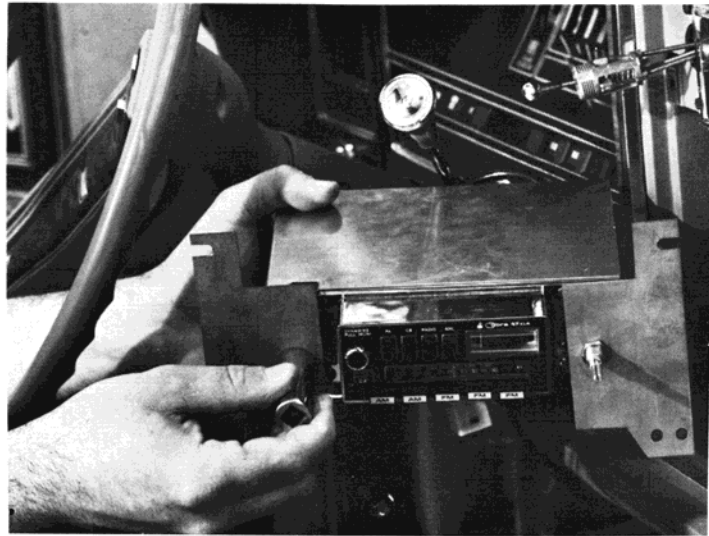
- () D. Place washer and one hex nut onto each shaft, and tighten.

NOTE: Hand-tighten only! Do NOT torque down too tight, or you may crack the wells.



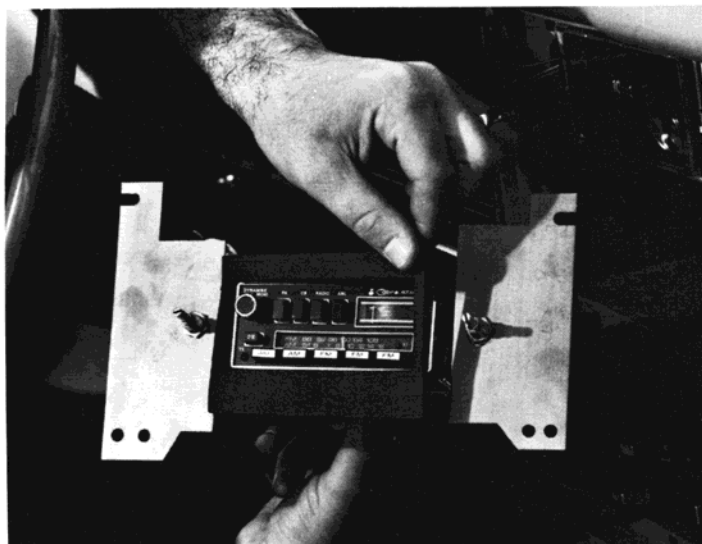
() **STEP 22: INSTALLING THE COBRA XLR THROUGH FRONT OF DASH**

- () A. Place mounting bracket previously removed over the front of your COBRA XLR and secure it, using two hex nuts from hardware bag. Tighten hex nuts firmly.



- () B. Place rubber collar over nose piece of XLR in-dash unit.

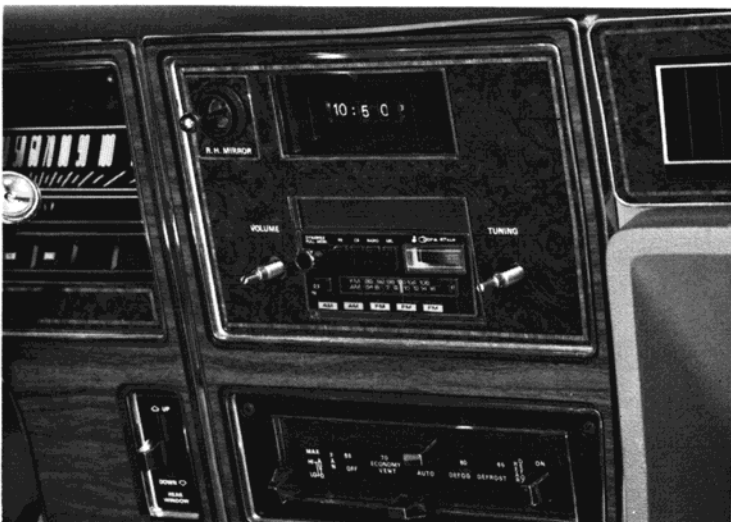
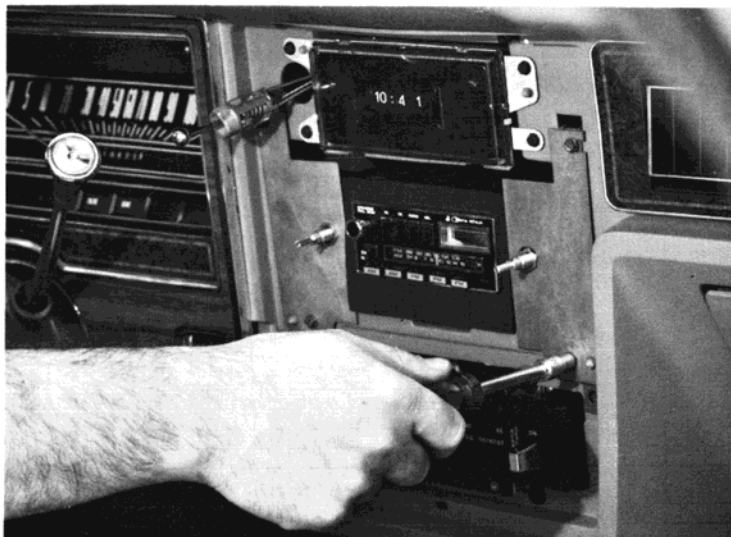
NOTE: Before going on to next step and completing installation by this method skip to STEP 24 THRU STEP 28, for WIRING INSTRUCTIONS. After completing the wiring, return to this section and STEP 22-C.



- () C. Replace metal mounting bracket with XLR in-dash unit attached, back into the dash opening from the front, and secure with screws that originally held plate in position.

NOTE: If you wish to install an under-dash "L"-type mike bracket (referred to in STEP 27-B), it should be installed before proceeding to next step, 22-D.

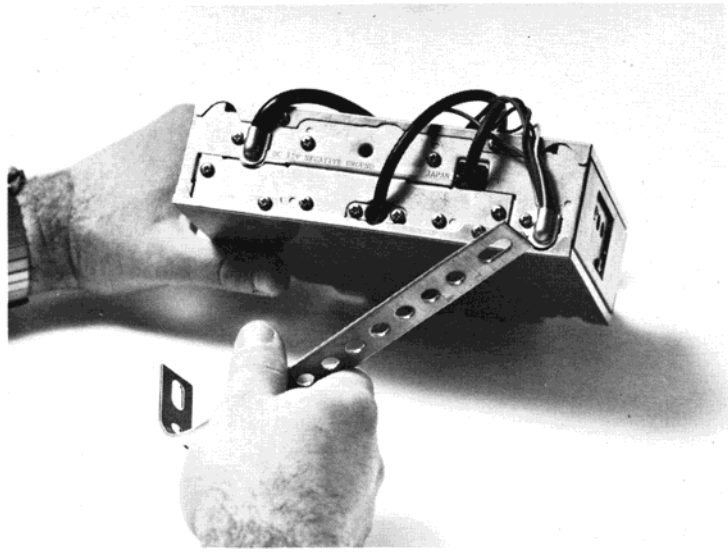
- () D. Replace existing trim panel, using original screws.



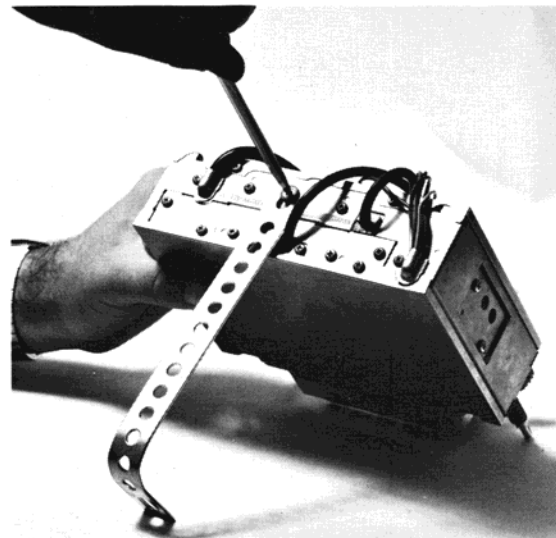
() **STEP 23: INSTALLING REAR SUPPORT BRACKET**

NOTE: This step is not necessary if the COBRA XLR was securely fastened to metal mounting plate.

- () A. Install rear support bracket and bend one end so that end reaches the mounting or jiffy-bolt and the other end reaches the metal brace below or near the radio chassis.



- () B. Before bending to shape, attach one end to the designated support position and tighten.



- () C. Attach one end of ground wire to the XLR radio chassis. Attach other end of ground wire to METAL part of car.

() **STEP 24: ANTENNA CONNECTIONS (AM or AM/FM Radio Antenna)**

- () A. Your existing antenna (windshield or outside type) will have a connector on the end of the cable.
- () B. Insert the connector end into the female receptacle of your COBRA XLR in-dash radio antenna cable.
- () C. If you do not have an AM or AM/FM radio already on your car, purchase one and follow the manufacturer's instructions for installation.

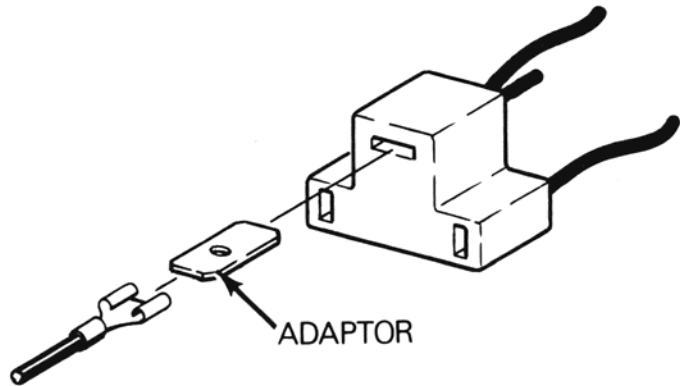
() **STEP 25: ANTENNA CONNECTIONS (CB Radio)**

- () A. No CB antenna is furnished with your COBRA XLR in-dash radio, so you will need to purchase one.
- () B. Follow the antenna manufacturer's instructions and STEP 24 for installation of the CB antenna.

() **STEP 26: CONNECTION OF POWER LEAD**

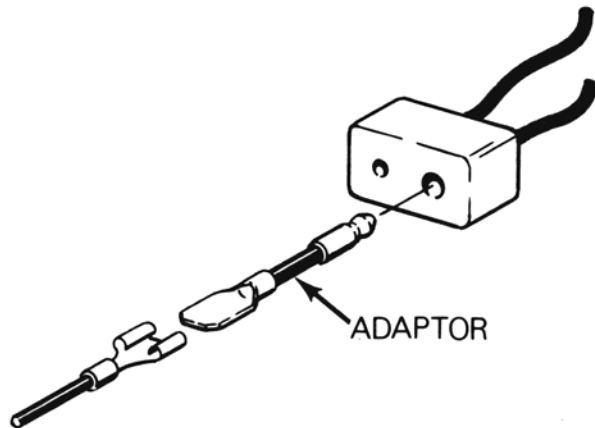
() A. For General Motors Cars.

- () (1) Locate existing mating connector near radio opening.
- () (2) Find special adaptor tab in XLR carton.
- () (3) Connect adaptor tab to end clip of red lead from XLR chassis and insert into car's harness as shown.



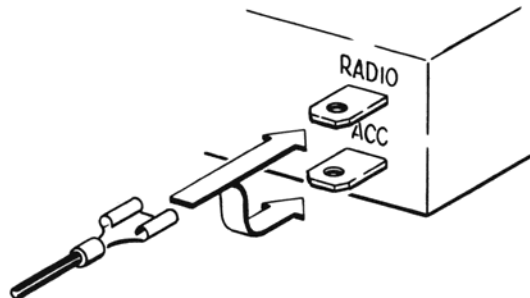
() B. For Ford Cars.

- () (1) Locate existing mating connector near radio opening.
- () (2) Find special adaptor wire in XLR carton.
- () (3) Connect adaptor wire to end clip of red lead from XLR chassis and insert into car's harness as shown.



() C. For All Other Cars.

- () (1) Splice into original factory harness or connect end clip of red wire from XLR chassis to fuse box, as shown.



() **STEP 27: MICROPHONE HOOK-UP**

- () A. The COBRA XLR microphone cable is terminated in a connector that matches the connector on the XLR radio cable. Connect cables together through these connectors, as shown.

- () B. Included in the XLR radio carton is an under-dash microphone "L" bracket that accepts the male connector from the COBRA mike and permits, fast, easy connection/disconnection of mike when entering/leaving your car.

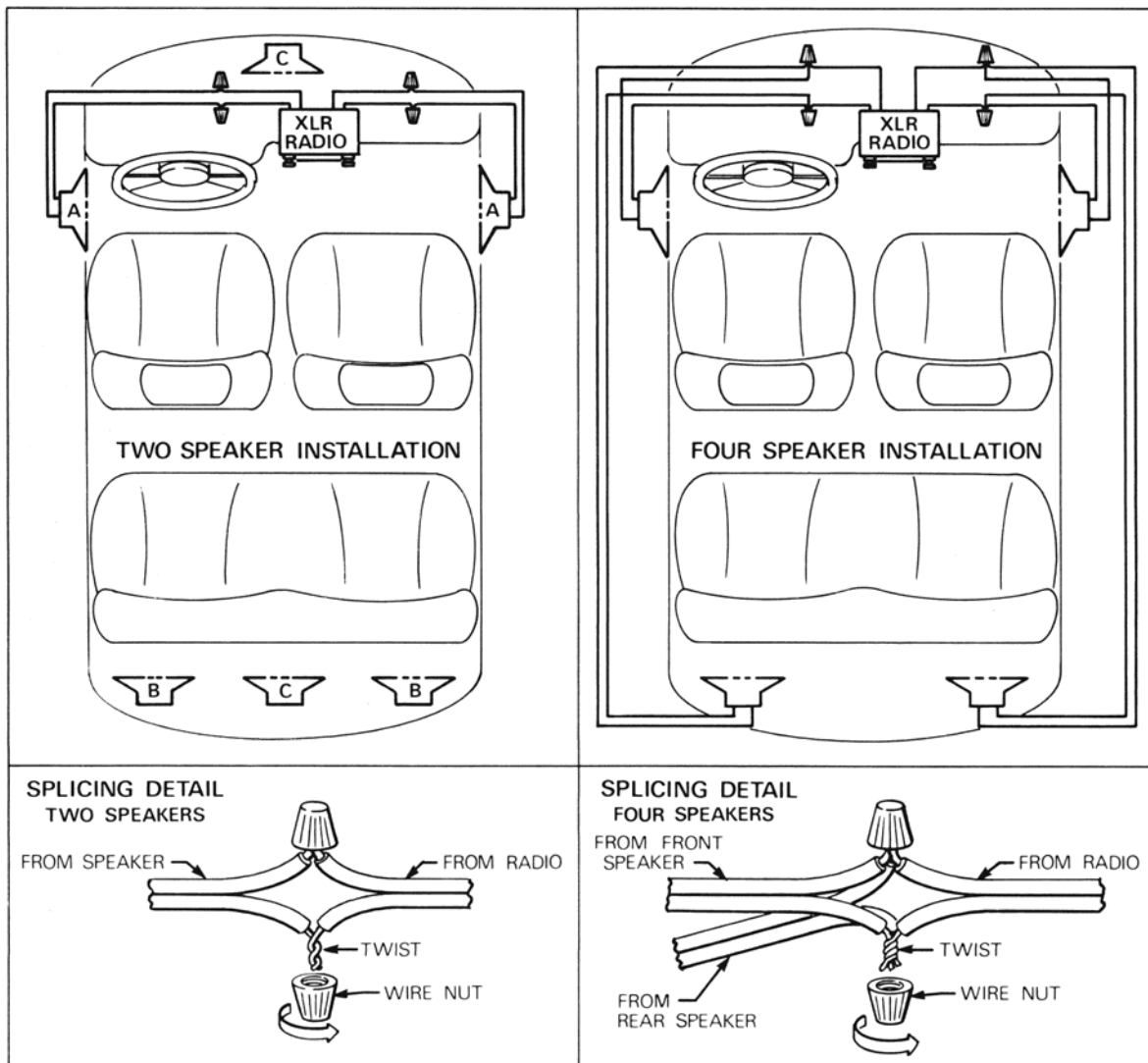


() **STEP 28. SPEAKER SELECTION**

- () A. Since many types of speaker systems for cars are available, we suggest you make a choice based upon what seems best for your particular car.
- () B. At the rear of the XLR chassis there are color-coded wires labeled "Speaker Leads." Locate these and connect to speaker terminals. Twist the wire ends together and join them, using the wire nuts included in the XLR hardware.

- () C. When using dual-ohm, 2-speaker systems, be sure to use the matching (ohms) terminal on the speaker used.
- () D. When using dual-ohm, 4-speaker systems, wire in parallel and make sure matching (ohms) speaker terminal is used.

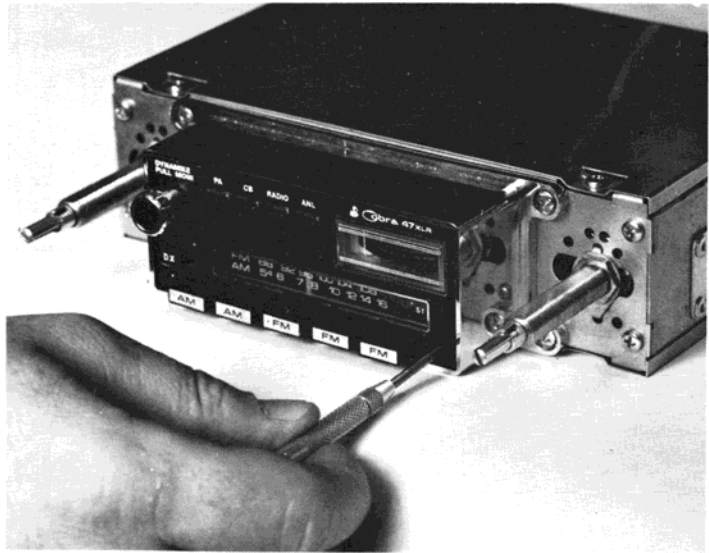
Note diagram below for further speaker installation details:



() **STEP 29. RE-CONNECT CAR BATTERY**

() **STEP 30. IMPORTANT – ADJUST AM ANTENNA TRIMMER**

- () A. Extend auto antenna to maximum height.
- () B. Turn in weak AM station between 12 and 16 KC. Turn volume control to MAX. position.
- () C. Insert small flat-blade screwdriver into trim adjustment and turn for loudest reception.



() **STEP 31. KNOB INSTALLATION**

Select proper knobs for your installation.

- () A. Insert rear knobs (plastic bag #1 or 2) first.
 - () (1) If shafts protrude far enough through dash, use bag #1.
 - () (2) If shafts do NOT protrude through dash far enough and extra shaft extension is therefore required, use bag #2.
- () B. Insert front knobs, using bag #3.



NOTE RE CUSTOM KNOBS

Custom knob kits are available from your COBRA dealer.



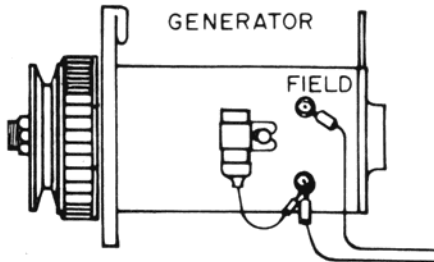
INSTALLATION INSTRUCTIONS FOR NOISE SUPPRESSION EQUIPMENT

GENERATOR CAPACITOR (If Required)

Mount the noise suppression capacitor on the generator frame, under the ground lead screw.

Connect capacitor lead to the armature terminal of the generator.

WARNING
DO NOT CONNECT THE CAPACITOR LEAD TO THE FIELD POST TERMINAL.



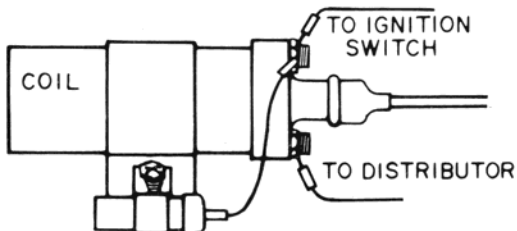
ALTERNATOR CAPACITOR (If Required)

Mount capacitor on the alternator frame. Connect capacitor lead to the OUTPUT terminal of alternator.

WARNING
DO NOT CONNECT CAPACITOR LEAD TO ANY OTHER TERMINAL OF ALTERNATOR.

IGNITION COIL CAPACITOR (If Required)

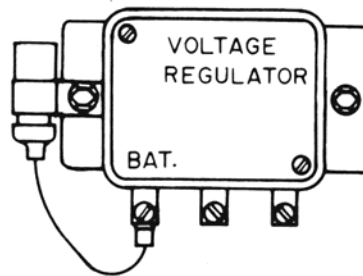
Mount capacitor under one of the ignition coil mounting screws or other convenient grounding point. Connect the capacitor lead to ignition switch side of coil.



VOLTAGE REGULATOR CAPACITOR INSTALLATION ON GENERATOR-EQUIPPED CAR (If Required)

Connect the noise suppression capacitor under one of the voltage regulator mounting screws, connect the capacitor lead to the "BAT" (battery) terminal only of the voltage regulator.

WARNING
The use of a noise suppression capacitor on an alternator type voltage regulator is *not* recommended as the capacitor may affect the normal operation of this type of voltage regulator.



IN-LINE SUPPRESSOR (If Required)

Mount in-line suppressor in coil output lead to distributor by cutting the coil wire about one inch away from the distributor cap.



The COBRA In-Dash Line.



46XLR IN-DASH AM/FM/FM STEREO/CB RADIO. Features S/RF signal tuning meter, LED CB channel readout with dimmer switch, LOCAL/DISTANCE switch, separate MODE pushbuttons. Only 5" deep.



47XLR IN-DASH AM/FM/FM STEREO/CB RADIO. Same as the 46XLR, but with pushbutton tuning for AM/FM, and remote microphone complete with channel selector, LED readout and squelch control (permits channel selection and squelch control without taking hand off microphone). Only 5" deep.



55XLR IN-DASH AM/FM/FM STEREO/8-TRACK TAPE PLAYER/CB RADIO. Similar to 47XLR, but has 8-track tape player, AM/FM multiplex radio, tape track lights, 4-way fader, lead for electric antenna, and RF gain control. Short-chassis design.



50XLR IN-DASH AM/FM/FM STEREO/CASSETTE PLAYER/CB RADIO. Similar to 55XLR, but has slot-loaded cassette playback; fast forward; manual cassette eject; ON-OFF indicator light; AUTO STOP. Short-chassis design.