(M) **MOTOROLA INC.**

MT1000®
VEHICULAR ADAPTER
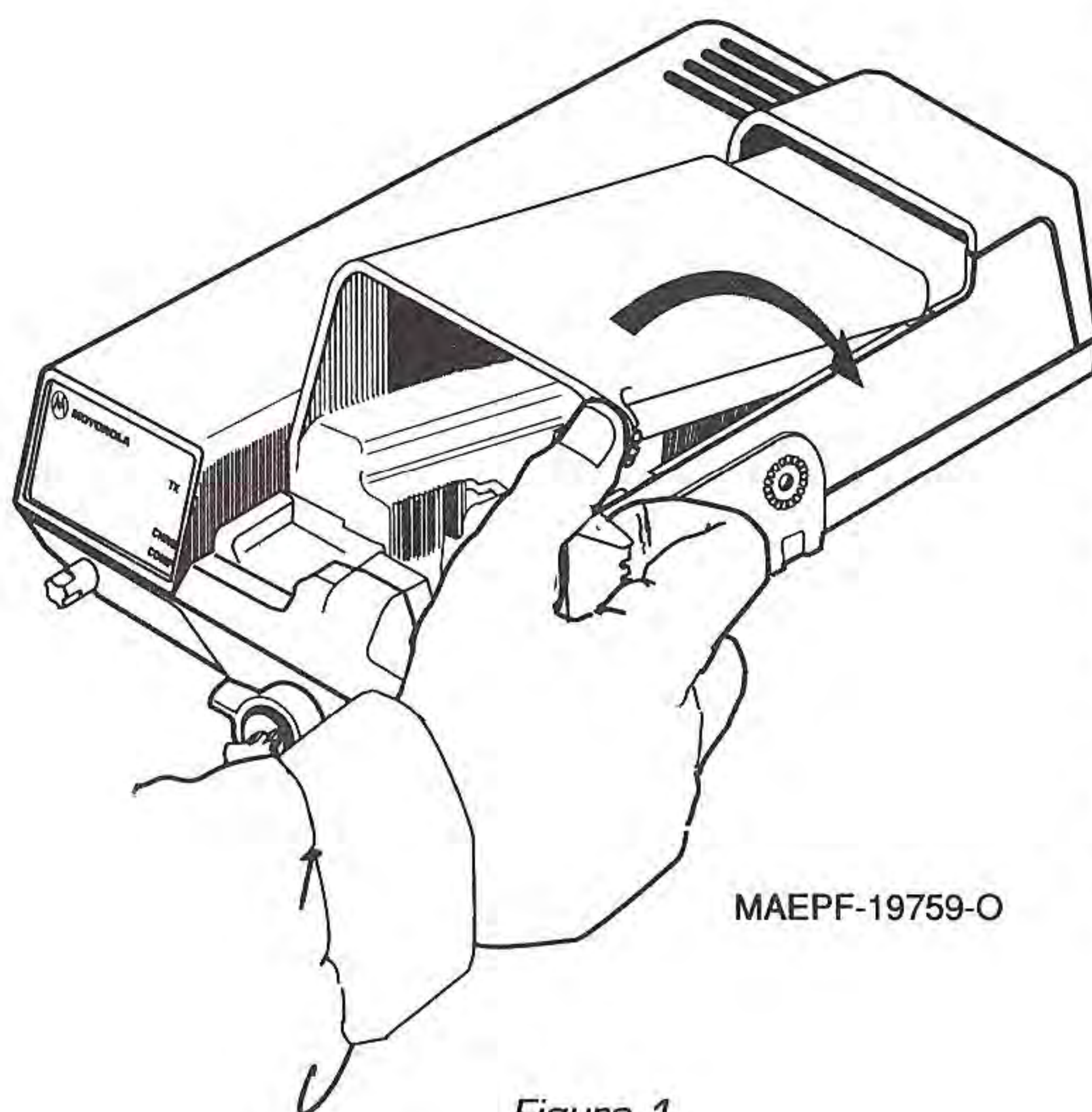## operating instructions

MAEPF-19759-O

Figure 1

1. DESCRIPTION

The Mobile Vehicular Adapter (MVA) is designed to work in conjunction with the MT1000®, HT600™, HT600E™, HT800™ and MTX-900™ radios. This console will also operate with the MTX-800™ radio except that rf can only effectively be transmitted through a special antenna and adapter.

The MVA has been designed to adapt your portable radio to vehicular use. It includes a battery charger, and interface connections for an external microphone, speaker, and antenna.

The MVA will operate with standard and rapid charge batteries. Use of other batteries other than Motorola's is not recommended.

2. INSERT THE RADIO IN THE CONSOLE

a. The pocket must be in the open position in order to insert the radio in the vehicular adapter. Place the thumb and forefinger on each of the two tabs (see Figure 1) on the right side of the console and using a clockwise twisting motion, release the pocket to the upper position.

b. Insert the radio into the pocket with the front of the radio in the face up position.

c. Push back the radio and pocket; the pocket will lower and the radio will move forward into place.

d. Turn the friction lock 1/4 turn to the vertical position.

------------------------------ NOTE ------------------------------

The radio can be locked into the MVA by turning the key clockwise. The key may be removed after locking or unlocking the radio (see Section 6, "Keylock Security").

3. BASIC MODEL

a. Inserting an MT1000, HT600E, or MTX-900 radio into an MVA with a 12W audio speaker will result in the disabling of the radio's volume control and the enabling of the MVA's volume control. Use the volume control on the MVA to adjust the audio to a comfortable listening level.

b. Select the desired channel on the radio. If the radio has a rotary knob for channel selection, it is recommended that the channel be selected prior to inserting the radio into the MVA.

c. Depress the monitor button on the radio to detect channel activity before radio transmission.

------------------------------ NOTE ------------------------------

When using the HT600, HT800 or MTX-800 radio, both the MVA and radio volume controls will be operative. For best results, turn the radio's volume up 3/4 of the way and then use the MVA volume control to adjust the audio to a comfortable listening level.

4. ENHANCED MODELS (MT1000 RADIOS ONLY)

a. Follow Step a. Basic Models procedure.

------------------------------ NOTE ------------------------------

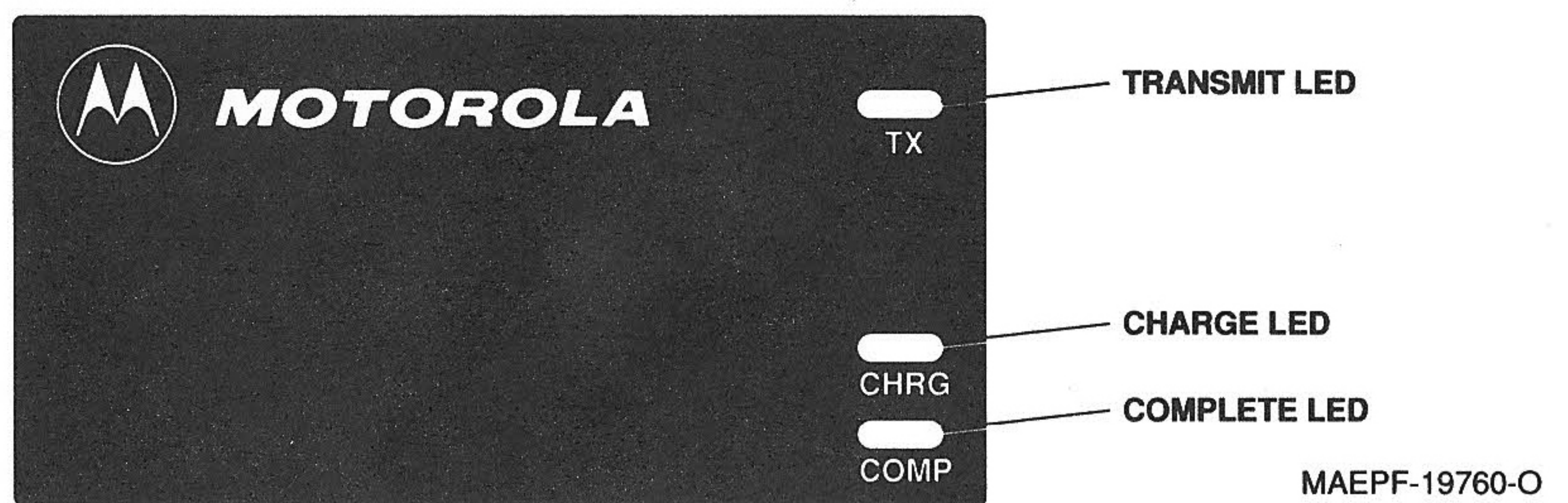The MVA control panel buttons override the controls set for the radio.

Figure 2

b. The LED channel display (1) will appear blank when the radio is inserted into the MVA. When the radio is turned on, the channel last selected on the radio will appear on the display. The LED channel display (1) indicates the channel selected. The up/down button (2) controls the channel that the radio is on while it is in the console. Upon removal, 16 channel radios will revert to the channel selected on the rotary knob; 99 channel radios will still be on the channel last displayed on the MVA.

c. Press the Squelch/Private-Line® (PL) button (3) to receive PL calls. A green LED (SQ) (4) will be illuminated. When a transmission is detected, the green LED (SQ) (4) will flash and the message will be received if the proper PL is detected.

d. To activate scan, depress the SCAN button (5) on the panel. A "–" will appear on the LED channel display (1) indicating that the radio is scanning the programmed channels. The yellow LED (SCAN) (6) will be illuminated. If a message is received on a scan channel, the channel number will appear on the LED channel display. If the radio has priority scan, the yellow LED (SCAN) (6) will flash if a message has been detected on the priority channel. The scan list cannot be reviewed or revised while the radio is inserted in the console.

e. Push the MON button (7) on the panel to listen for channel activity. When the channel becomes clear, transmission may begin.
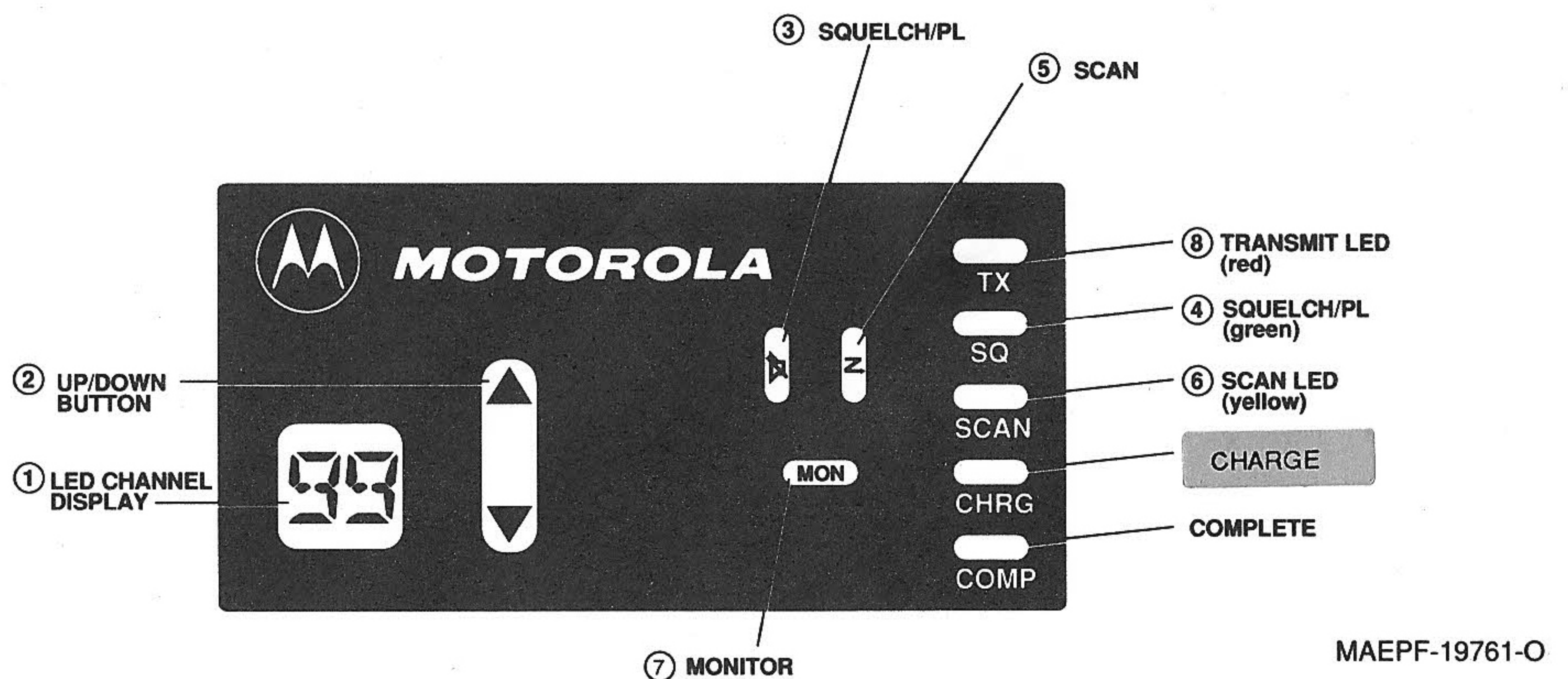

Figure 3

NOTE

The green LED (PL) (4) is always off in the scan mode.

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┌─────────────────────────── NOTE ───────────────────────────┐
│                                                              │
│  While the radio is in the console, the PL, monitor and channel scan buttons (located on the │
│  console), overide the controls last selected on the radio. Once the radio is removed from │
│  the vehicle adapter, the control of these functions automatically reverts back to the radio. │
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5. TRANSMIT AND RECEIVE WHEN CHANNEL IS CLEAR

Place the ignition switch in the ON position. Note, if the MVA is wired through the ignition switch, (refer to Service Manual). To transmit, depress the push-to-talk (PTT) switch and speak into the microphone at a distance of two inches from the grille. The red LED (TX) (8) will illuminate on the console during transmission. Release the PTT switch after each transmission to allow for incoming messages.

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┌─────────────────────────── NOTE ───────────────────────────┐
│                                                              │
│  A switch located on the left side of the console activates PAC•RT®, PAC•TR™, PAC•PL®, or │
│  PAC•TL™ MVA operation. When the switch is in the ON position, removing the radio from │
│  the MVA turns on the repeater.                              │
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6 KEYLOCK SECURITY

The keylock on the vehicular adapter console provides you with the option of securing the radio in the console when leaving the vehicle.

a. To lock the radio, turn the key clockwise to the vertical position and remove the key. This will secure the radio inside the console.

b. To unlock the radio, turn the key counterclockwise to the vertical position which will disengage the friction lock. Once unlocked, remove the radio from the pocket.

7. RELOCATING THE EXTERNAL SPEAKER

If desired, the 12W speaker can be relocated when leaving the vehicle in order to hear incoming calls in the area surrounding the vehicle. To relocate the speaker, loosen the two wing nuts holding the speaker to the bracket and remove the speaker from the bracket. Lower the vehicle's window slightly and clip the speaker over the top of the window.

8. BATTERY CHARGING

To charge the radio battery, insert the radio into the MVA and turn the vehicle's ignition switch to the ON position. Note, if the MVA is wired through the ignition switch, (refer to Service Manual). The red LED (CHRG) located on the front panel will illuminate while the battery is charging. For standard charge batteries, the red LED (CHRG) remains illuminated when the battery becomes fully charged. For rapid charge batteries, the green LED (COMP) will illuminate when the battery becomes fully charged. If the radio is completely discharged, the vehicle's battery will supply the radio with power in order to maintain radio communication.

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┌─────────────────────────── NOTE ───────────────────────────┐
│                                                              │
│  The radio will operate at a limited transmit power output of approximately 1.5W until the │
│  battery is sufficiently charged to resume the normal level of power output. │
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9. REMOVE THE RADIO FROM THE CONSOLE

Unlock the radio as described in Section 6, "Keylock Security". Place the thumb and forefinger on the tabs and using a clockwise twisting motion, release the pocket as shown in Section 2. a. The radio may now be removed from the pocket.

SAFETY INFORMATION

The Federal Communications Commission (FCC), with its action in General Docket 79-144, March 13, 1985, has adopted a safety standard for the human exposure to radio frequency (rf) electromagnetic energy emitted by FCC regulated equipment. Proper operation of this radio will result in user exposure substantially below the FCC recommended limits.

DO NOT operate the transmitter of a mobile radio when someone outside the vehicle is within two feet (0.6 meter) of the antenna.

DO NOT operate the transmitter of any radio unless all RF connectors are secure and any open connectors are properly terminated.

DO NOT hold the radio with the antenna close to, or touching, exposed parts of the body, especially the face or eyes, while transmitting. The radio will perform best if the microphone is 2 to 3 inches away from the lips and the radio is vertical.

MAEPF-19564-O

DO NOT hold the transmit (PTT) switch on when not actually desiring to transmit.

DO NOT allow children to play with any radio equipment containing a transmitter.

DO NOT operate a transmitter near unshielded electrical blasting caps or in an explosive atmosphere unless it is a type especially qualified for such use.

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