

Installation and Operation Instructions

SERVICE INFORMATION

Motorola

POLICE CRUISER

Model P-69-18
PART No. 54X20970

GALVIN MANUFACTURING CORPORATION • CHICAGO

Model P-69-18 is an eight-tube receiver with a crystal controlled oscillator.

BAND COVERAGE

By using the correct oscillator crystal, the receiver may be adjusted to receive signals on any of the standard police bands between 1550 K.C. and 3000 K.C.

This receiver was shipped from the factory, pre-set for a definite specified frequency. If at any time it is desired to change its operating frequency, it should be returned to the factory, where for a nominal service charge, plus the cost of a new crystal, it will be adjusted to any specified frequency within its range.

INSTALLATION

RECEIVER MOUNTING

1. Mount this radio set on the bulkhead in the driver's compartment and, if possible, behind the steering column. However, if space in the car is limited, the receiver may be mounted on the right hand side of the bulkhead, in an inverted position.
2. Place the cardboard drilling template in position on the dash, and mark the mounting holes for the set.
3. Drill the two holes with a 1/2" drill. Clean the paint from around the mounting bolt holes on the motor side of the bulkhead.
4. Insert the "T" mounting bolts through the bulkhead, install the special lock-washers and run the nuts loosely on the bolts on the motor compartment side of the bulkhead.
5. Raise the radio set into position in the driver's compartment, so the heads of the two mounting bolts slip into position in the mounting brackets on each side of the set.
6. Draw the mounting nuts down tight so the cutting edges on the lockwashers dig into the metal surface of the bulkhead.

IT IS HIGHLY IMPORTANT TO SECURE A GOOD GROUND AT EACH BOLT.

SQUELCH ADJUSTMENT

The final step in the installation is to adjust the squelch control. Turn the squelch control knob (Fig. 3) to the left until the proper degree of squelch is obtained. This will depend on carrier signal strength and

the level of interference. The correct setting will result in positive reception of the station when on the air, and positive rejection of interference when the carrier is off.

OPERATION

TO TURN SET ON

Turn the single knob in the control head to the right. The ruby light will indicate that

the power switch is "ON".

TO REGULATE VOLUME

The knob which operates the switch also works the volume control. Turn right to increase --

left to decrease.

VIBRATOR SWITCH

Two vibrators are provided in the receiver, so the failure of one will not cause the Cruiser to go out of service. The vibrator change-over switch is controlled by a knob on

the front of the receiver. The switch can be turned right or left, at any time, to place another vibrator in service. (See Fig. 3.)

THERMAL CUTOUT

An automatic resetting type of thermal cutout is provided in the receiver. If, for any reason, the receiver should suddenly draw more than its normal current drain, the cut-out opens, as indicated by the ruby pilot light in the control head ceasing to glow. The cutout will reset itself automatically

within a few seconds. When this happens, turn the vibrator selector knob to select the reserve vibrator. (See Fig. 3.) If the cut-out continues to open, the trouble was not caused by a vibrator failure, and the set should be serviced immediately.

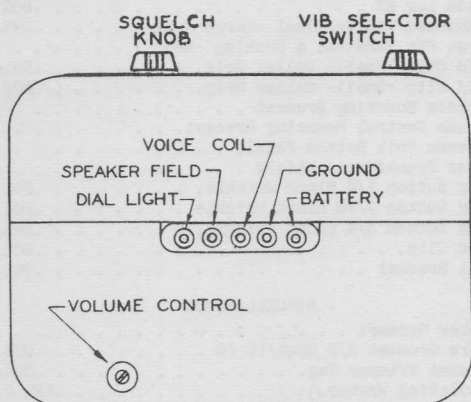


Fig. 2

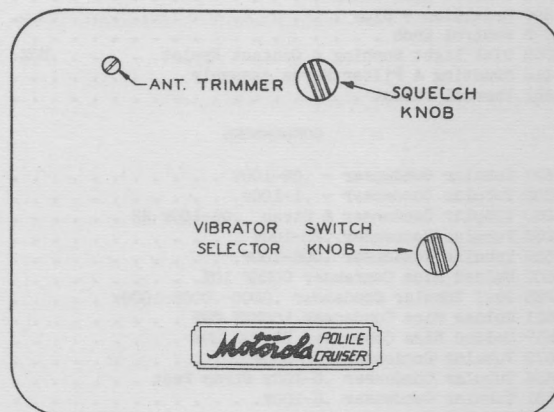


Fig. 3

VOLTAGE CHART

TUBE	POSITION	PLATE	SCREEN	CATHODE
6K7G	R. F. Amp.	210	90	3
6A8G	1st Det.	210	90	3
6K7G	I. F. Amp.	210	90	4.5
6H6	Noise Limiter	0	--	0
6Q7G	2nd Det. & Squelch	1	--	0
6SF5	1st A. F. & Squelch	180	--	30
6V6G	O. P. Amp.	210	220	0
OZ4	Rectifier	A.C.	0	230

Battery Voltage 6.3

Meter 1000 ohms per volt

Voltages measured between chassis base and points specified.