

GENERAL:

The new greatly improved M+2U, a modified version of the original M+2, has been designed specifically for the CB, Business Radio and Communications field.



FIGURE 1
MODEL M+2U MICROPHONE

The M+2U utilizes a two-stage transistorized amplifier providing a gain of 15 db over conventional ceramic mobile microphones. The M+2U with its high output level, has the capability of fully modulating any transmitter. The ceramic generating element of the M+2U is unaffected by temperature or humidity extremes. The amplifier uses rugged silicon transistors for maximum temperature stability.

The M+2U uses a cycloac case which is very rugged and will provide years of service under normal handling conditions.

The output level of the M+2U is easily adjusted by a calibrated, semi-recessed volume control located at the top rear side of the microphone.

The M+2U is wired for relay switching (closing an external set of contacts — no connection to ground); the JM+2U is wired for electronic switching. (The most common type of electronic switching is a switching of two wires to ground).

The additional switching contacts provided by the three-pole double-throw switch in the new M+2U and JM+2U give them greater switching flexibility and allow for compatibility with virtually all transceivers, either tube type or transistorized, except those which require a carbon microphone.

Mobile Communications

SPECIFICATIONS for M+2U JM+2U

Transistorized Mobile Microphone

- Element Type:** Ceramic
- Output Level:** -40 db (0 db = 1 volt per microbar)
- Amplifier Voltage Gain:** 0 to 15 db
- Temperature Range:** -30° C to 65° C
- Frequency Response:** 300-3000 hz
- Battery:** Ray-o-vac #1501 7 volt mercury type (or equal). Battery is included
- Battery Life:** Approximately six months, based on usage
- Cord:** 3 conductor (1 shielded) 11' retracted, 5' extended PVC coil cord

TURNER MICROPHONES

TURNER DIVISION OF CONRAC CORPORATION
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Turner M +2U Transistorized Mobile Microphone

The M+2U can be easily adapted to almost any transmitter. The white wire is the signal ("hot") lead and the shield provides a ground connection between microphone and transmitter case/ground. The black and red leads provide the necessary control switching as shown in Figures 2 and 3. When replacing another microphone with the M+2U, consult the equipment manual for proper wiring of the connector (if connector is used). If an equipment manual is not available, then care should be taken to analyze the microphone being replaced to determine connector connections and type of switching needed. Experience indicates that most difficulties in replacing a microphone occur as a result of poor workmanship in making up the connector. Avoid excessive heat which can damage insulation and keep exposed leads short to prevent shorting within the connector.

In case of difficulty, please do not tamper with the microphone as this will void the factory warranty. Contact factory for further instructions.

A LOSS IN MODULATION LEVEL MEANS A LOSS IN EFFECTIVE COMMUNICATIONS RANGE OF YOUR EQUIPMENT.

Many transceivers do not have sufficient amplification or adjustment of modulator amplification to be used conveniently. The M+2U is designed to be used at 8". The volume/gain control on the M+2U should be set at 6 initially. Remember that this is a starting point and your modulation level should be verified on a monitor scope. Insufficient modulation will cut your effective range and limit your ability to overcome local QRM conditions. Over modulation may cause excessive distortion on the air and limit the intelligibility of your signal. The conveniently located volume control easily allows a different setting for each individual using the microphone. The wide range in output level allows you to compensate any voice at at reasonable position from the M+2U.

The M+2U or JM+2U will replace all conventional domestic and imported crystal, ceramic and Hi Impedance Dynamic microphones. It is the most universal microphone available today.

BATTERY REPLACEMENT:

To replace the battery in the M+2U and JM+2, proceed as follows: Place the microphone face down on a clean surface. To prevent scratches to the front, it may be placed on a bench cloth. Carefully remove the four screws holding the back on, while holding the microphone back in place. Now slowly remove the back of the microphone case making sure the circuit board with volume control remains in the front section of the microphone case. Place the rear of the base beside the front of the case. Hold the circuit board down in the front case while you pull the battery from the battery holder. Insert a new Ray-o-vac #1501 battery or equivalent. Be sure to observe polarity when installing the new battery. Carefully reverse the disassembly steps, making sure the cable wires loop around the battery when you replace the back. These instructions should be followed carefully to prevent damage to the circuit board and microphone interior. If the TR-175 battery is not available in your area, please order directly from the Turner Co. Please send your check, or money order for \$1.60 for each battery required and we will ship by return mail.

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FIGURE 2

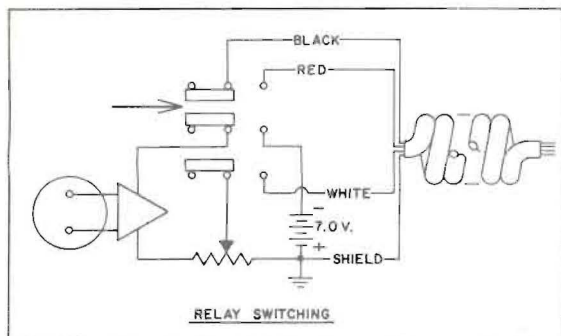
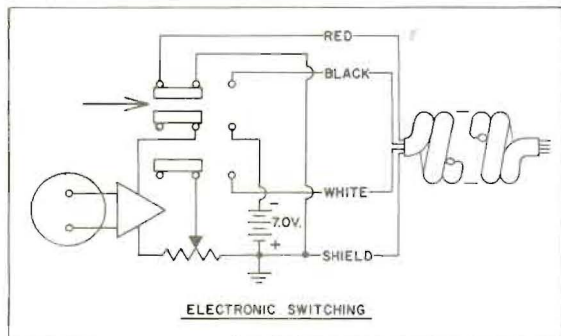


FIGURE 3



GUARANTEE

All Turner M + 2U microphones are individually and thoroughly tested before leaving the factory and are guaranteed by the Turner Division, Conrac Corporation, against defective materials and workmanship for one year, provided that the instructions are fully complied with and that the units are not opened, except for battery replacement, or tampered with in any way. Microphones covered by this warranty should be returned to the factory and will be repaired or replaced at no cost other than transportation one way.