

Turner Microphones CS-1

Documentation Project

CBTricks.com

Courtesy Of DrSuess



Base Station Communications

SPECIFICATIONS

for CS-1

A75012
Transistorized Microphone



MODEL CS-1
FIGURE 1

GENERAL:

The CS-1 has been designed specifically for any CB base station transceiver requiring a six wire cable and special switching. The CS-1 utilizes a transistorized amplifier, providing a gain of 33 db over conventional ceramic base station microphones. The CS-1, with its high output level, has the capability of fully modulating any transmitter.

The ceramic generating element of the CS-1 is unaffected by temperature or humidity. The amplifier uses rugged silicon transistors for maximum temperature stability. The amplifier is constructed on a printed circuit board. The CS-1 uses a rugged die cast case, finished in a gold baked enamel with black touch bar. The cable is a 5 conductor, 1 shielded, coiled cord with black rubber jacket.

The CS-1 microphone is activated by pressing down on the touch bar. This applies power to the transistorized amplifier, while performing the necessary switching. The touch bar may be locked in the "on position" by moving the "slide lock" forward.

The output level of the CS-1 is easily adjusted by a volume control located in the base of the microphone. See Figure 1. The CS-1 has a tailored frequency response of 300-3,500 hz with a rising characteristic. This means maximum speech intelligibility in your transmissions with a reduction of local noise interference.

The CS-1 is equipped with a 6 wire cable and the extra switching for any transceiver requiring additional switching. See Figure 2 for schematic.

Sensitivity: -23 db (0 db = 1 volt per microbar), when operating below compression level

Output Impedance: 5,000 ohms

Amplifier Voltage Gain: 0 to 33 db, adjustable

Temperature Range: -30° C to +65° C

Battery Drain: 1.2 ma.

Battery Life: Approx. 6 months, based on average usage

Battery Type: Burgess 2U6, Eveready 216, Ray-o-vac 1604, or RCA VS-312. Battery is included.

Finish: Gold, baked enamel

Weight: 2 lbs. less cable. Shipping weight 4 lbs.

Cable: 5 conductor, 1 shielded, coiled cord with black rubber jacket

BATTERY REPLACEMENT

The battery in the base of the microphone should be replaced as needed with one of the types listed above. Turn the battery hold down spring clamp 90 degrees and remove the battery. Unclip the connector from the battery and install a fresh battery making sure the new battery is in position and well secured by the spring clamp.

TURNER

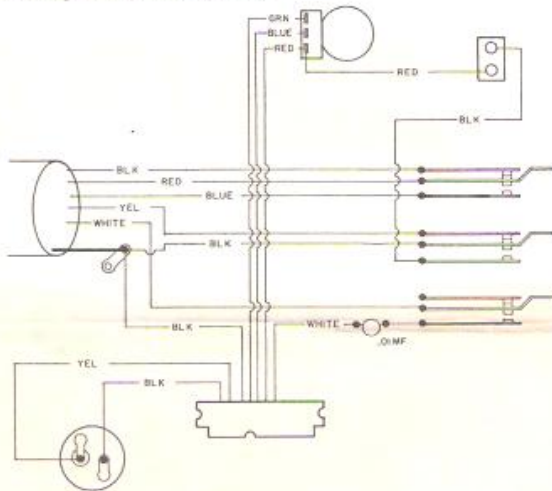
MICROPHONES

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FIGURE 2

The CS-1 is supplied with a 5 pin connector used on some CB transceivers. However the CS-1 can be used with many different transceivers requiring the 6 wire cable.

Below is the correct wiring for several transceivers requiring the 6 wire cable.



CS-1 WIRING INSTRUCTIONS

Johnson 250

Pin Numbers	Wire Colors
1	White
2	Red
3	Black
4	Yellow
5	Blue
Shell of Plug	Shield

Lafayette Micro 723-923

Pin Numbers	Wire Colors
1	White
2	Blue
3	Red
4	Shield
5	Black
Not Used	Yellow

Midland 13-894 & 13-896

Pin Numbers	Wire Colors
1	White
2	Shield
3	Blue
4	Red
5	Black
Not Used	Yellow

Pearce Simpson Companion IV

Turner Color	Pearce Simp.
Shield	Shield
Yellow	Yellow
Black	Blue
Red	Black
Blue	Red
White	White

Realistic TRC-10

Pin Numbers	Wire Colors
1	Shield & Red
2	Yellow
3	Blue
4	White
5	Black

Hy-Gain 671

Schematic Ref. No.	Turner Color
1	White
2	Blue
3	Red
4	Shield
5	Black
Not Used	Yellow

Johnson 120, 121, 122, 123A

Transpose same wire color for Johnson Wire color

The CS-1 was designed to fill the need of a base station microphone with high modulation level capability. It is for use with all types of communication transmitters and transceivers, requiring a 6 wire cable.

When used with a transceiver requiring a different plug than the one supplied with the CS-1 care should be taken when removing the existing plug and replacing the proper plug for your transceiver. Experience indicated 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 with a base station microphone. The CS-1 is designed to be used at 8" to 16". An additional gain of approximately 18 db is required when changing from a hand held close talk microphone to a base station microphone at 16". The volume/gain control on the CS-1 should be set at the midpoint initially when changing from a close talk microphone. 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.

GUARANTEE

All Turner CS-1 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.

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