



SERVICE BULLETIN

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from: TRIO-KENWOOD COMMUNICATIONS, INC.

MC-46

#852

SUBJECT: MC-46 DTMF Microphone Operation
With Older Equipment

DATE 1/25/82

The MC-46 DTMF (dual tone multi frequency, or TOUCHTONE,) (registered) microphone may be adapted for operation with any VHF or UHF radio by changing the supplied six pin mic connector to a five pin, four pin, or other connector, as required. Radios not originally supplied with regulated, filtered B+ at the mic connector need also be modified to power the microphone.

The MC-46 standard six pin mic connector is part no. E07-0651-05, and is wired:

Pin 1 White	Mic output
2 Red	PTT
3 Blue	Down
4 Green	Up
5 Brown	B+ (8.5V DC±10%)
6 Shield	

Four pin connector part no. is E07-0403-05. Radios built with a four pin jack do not supply B+ to operate the mic, and must be modified to deliver a constant source of DC to operate the mic and DTMF keyboard. Any Trio-Kenwood product of this vintage will have a B+ line designated "C9" (common 9V DC), which is regulated, filtered, and noise-free. Rewire the mic thusly:

Pin 1 White	Mic
2 Red	PTT
3 Shield	Common ground
4 Brown	C9

Rewire the radio mic jack; pin 3 to common ground, pin 4 to C9.

Rewire the stock mic for pin 3 common ground. Otherwise, the mic element will be returned to C9, instead of ground. Note this change on the radio schematic.

Five pin connector part no. is E07-0551-05. Radios built with a five pin jack supply correct B+ for a DTMF mic (originally designated MC-45, and no longer available). Wire the mic thusly:

Pin 1 White	Mic
2 Red	PTT
3 Brown	B+
4,5 Shield	Common ground

Mating chassis connectors;

Four pin,	part no. E06-0403-05
Five pin,	part no. E06-0552-05
Six pin,	part no. E06-0651-05