

7/9/87

70-K33 KIT INSTALLATION INSTRUCTIONS ALL SYN-TECH I MOBILES

The 70-2305 microphone is a dynamic type with an integral amplifier, automatic sensitivity control circuit, and an output converter for driving carbon-type transceiver inputs. The push-to-talk switch is a normally-open type that contacts to ground on transmit and the monitor switch is a normally-closed type, also contacting to the same ground. Operating power for the electronics is obtained from the transceiver through a connection to a source of filtered +13.8 V DC. The 70-2305 pinouts are as follows:

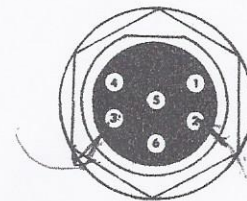
| PIN | COLOR | FUNCTION |
|-----|------------------|--------------------------------|
| 1 | Red (shielded) | Filtered +13.8 V DC |
| 2 | Shield (SH 2) | Shield for 1 and switch ground |
| 3 | Blue | Monitor switch (NC to ground) |
| 4 | White (shielded) | Microphone audio output |
| 5 | Shield (SH 1) | Microphone audio shield |
| 6 | Black | Push-to-talk switch (NO) |

To allow connection of the 70-2305 to the referenced mobile transceivers, the 4-pin microphone jack on the mobile unit can be replaced by a 6-pin jack. This replacement jack and sufficient wire to complete the modification are contained in kit number 70-K33, available from Midland. Replacement should be made as follows:

1. Remove the transceiver top and bottom covers. Remove the four screws securing the front panel to the unit and slide the front panel forward, separating it from the unit. Remove the two screws securing the CX-07 Display PCB assembly and separate it from the control panel.
2. Remove the 4-pin microphone jack J393 (the 70-156018 microphone jack removal tool is available for this purpose). Install the replacement jack in the front panel and reconnect the wires and capacitors according to the following chart.

Original J393 (4-Pin) 6-Pin Replacement Jack

| | |
|---------------------|--------------------|
| 1 (Brown), C391 | 4 C391 |
| 2 (Red), C391, C392 | 2 and 5 C391, C392 |
| 4 (Orange), C392 | 6 C392 |
| | 1 |
| | 3 |



Rear View

Pins 1 and 3 or the replacement jack must be connected to the transceiver to supply microphone power and allow control of the sub-audible tone squelch for monitoring. Using the wire supplied in the kit, connect Mic Jack pin 1 to J381 pin 3 and Mic Jack pin 3 to J381 pin 1. J381 is located at the rear of the front panel control PCB CX-04. Connections can most easily be made on the bottom of the PCB.

3. Carefully re-install the CX-03 PCB, positioning C391 and C392 to fit through the hole directly behind the microphone jack. Re-install the CX-03 retaining screws and reconnect the front panel to the radio. **Remove JP2 on the CTCSS PC Board.**

70-K33 Kit Components

| DESCRIPTION | QUANTITY | PART NO. |
|-----------------------|----------|-----------|
| 6 pin Microphone Jack | 1 | 70-159058 |
| 24 AWG wire, 6" | 6 | ----- |