

- 7) If the built-in Audio Amp/Mixer is to be used, audio output will be taken from E521. If the audio amp/mixer portion is not used, the IDer audio output is E509. A local microphone (such as the Spectrum M510) with a medium Z ceramic element can be connected to E519 and E520. The main repeat audio line, (from the repeater receiver), can be connected to E523, or, if a variable level is desired it can be connected to E527. The mixed composite repeat audio to be transmitted is then taken from E521.
- 8) To enable the Audio Muting Function, (commonly used to mute "control tones"), connect the Audio Mute point, E517 to one of three (3) controlling options:
- | | | |
|-------------------------|---|--|
| 1. SCAP Control | - | E 31 on SCAP board |
| 2. Manually Switchable | - | switch +5 to 13.8VDC |
| 3. Logic, or Spectrum's | | Logic: 5 - 13.8VDC |
| TTC100 or TTC300 | - | TTC100: Connect to E25. |
| | | TTC300: Connect to 5V Trigger point at jack J2, pin 1, (Audio Mute). |

With any of the control options, 5-13VDC is momentarily applied to point E517 of the Audio Muting circuitry which effectively mutes all audio output from the ID250A Audio Mixer for the duration of the "high" on E517.

- 9) The Automatic "EMERGENCY POWER I.D." is an option that must be programmed and wired at the factory, or you may elect to wire it on your own. However, please note that in order to utilize the EMERGENCY POWER I.D., Track 2 of the PROM IC, U502, MUST BE PROGRAMMED at the factory prior to using the option. (If Track 2 has Not been programmed, and it is triggered, only a continuous tone will be generated.)

The option is installed by first removing the 5V jumper wire which enables Track 1 between E504 and E532. Referring to the schematic of the "Automatic EMERGENCY POWER I.D. TRACK Selector", note that Track 1 and 2 are already pre-connected. It is then only necessary to connect E538 to one side of the AC Power Transformer secondary at the bridge rectifier, and make certain that E516 is connected to 13.8VDC. When this option is utilized, if AC power should fail and your repeater or transmitter switches-over to battery backup power, the ID250A will sense the loss of AC power, and instantly switchover to track 2 with its distinctive "Emergency Power I.D.".

ID250A CHECK-OUT PROCEDURE

- 1) Be sure a properly programmed "PROM" is installed in the socket provided.
- 2) Apply power to the repeater, and press the "MANUAL I.D." button. The repeater transmitter will be keyed automatically, and will stay on until the I.D. sequence is completed. The time required to complete an entire I.D. sequence is determined by R524, the code speed control.
- 3) Hold the "MANUAL I.D." button in, and adjust R528 for the desired audio output level. Set R520 for the desired tone frequency.