



ID250A INSTALLATION PROCEDURE

- 1) Connect +5VDC power supply lead to E510 on the board. Connect E516 to +12 - 14VDC if the Audio Amp/Mixer portion of the board is to be used.
- 2) Connect the power supply ground, (normally chassis ground) to terminal E511 on the board.
- 3) Connect one side of a SPST normally open momentary action pushbutton switch to terminal E501. Connect the other side of this switch to the positive power supply. If the Manual I.D. function is not required, this step can be omitted.
- 4) Connect terminal E529 to the P.T.T. lead of the repeater or other transmitter, or to any other desired point in the control system which will activate the transmitter upon receipt of a switch closure to ground. E529 provides an open collector transistor switch closure to ground whenever an I.D. is in progress, and will hold the transmitter on for the duration of the I.D. cycle. E529 can switch a 50mA maximum load to within 1V of ground, and can withstand a maximum voltage of 25VDC. If the load to be switched exceeds these maximum limits, then E529 should be used to switch a relay, which in turn can switch the load. See Fig. 1 for typical relay hookup. If an opposite switching sense from the one described is desired (i.e., E529 goes high when I.D.'ing - low otherwise), then remove the E503 to E502 jumper wire, and jumper E503 to E504.

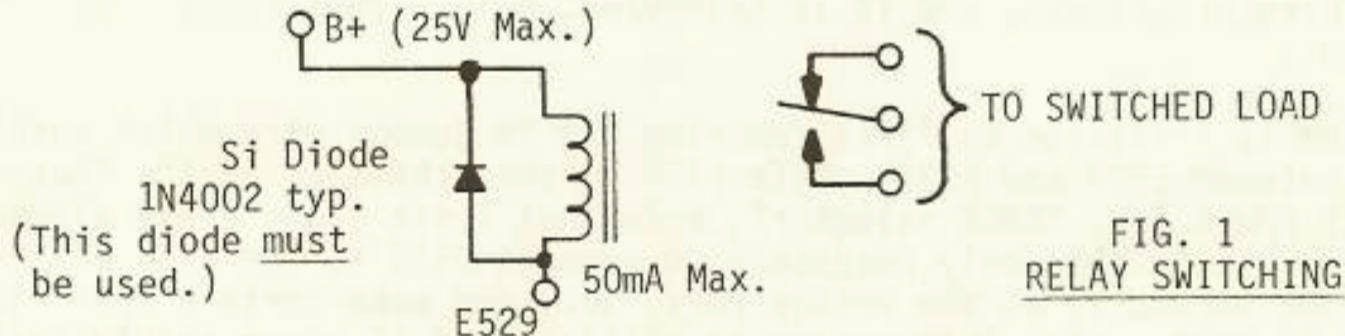


FIG. 1
RELAY SWITCHING

- 5) Determine which of the two trigger inputs will be most compatible with the logic sense of the COR circuit in the repeater. Note that if E512 is used, a COR which goes low (to ground) with receiver activity is necessary, and if E513 is used, a COR which goes high with receiver activity is necessary. The voltage pulses which trigger these inputs should preferably swing between ground and the full supply voltage (+5V).
- 6) Activate one of the 4 message channels by connecting the appropriate enable pin (E529, E530, E531, E532) to +5VDC. Note: unless otherwise specified, only message channel #1 is factory programmed (E532). Only 1 message enable terminal at a time should be tied to +5VDC. If more than one PROM channel has been factory programmed, a switch or logic could be added to change ID channels locally (or remotely). Note that the PROM memory chip cannot be programmed without special equipment. Contact Spectrum for additional plug-in PROMs which will be factory programmed for you.