Pt. No. 74114
7/81

TEN-TEC INSTRUCTION SHEET
MODEL 1125 MAGNETIC CIRCUIT BREAKER

GENERAL

When operating the Model 525 Argosy transceiver fixed, portable, or mobile with an external power supply or any source other than a TEN-TEC power supply, the protective circuitry for the final amplifier, being in the ac power supply, is not present. In order to protect the final amplifier, it is necessary to limit any over-current that may be caused by excessive drive or improper antenna matching. This may be accomplished by inserting the appropriate circuit breaker in series with the 12VDC supply line.

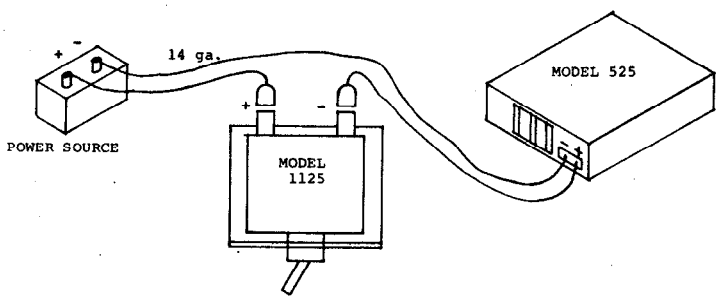
Model 1125 is a special, fast-acting magnetic circuit breaker, specifically intended for use with the Model 525.

INSTALLATION

1.) Using #14 gauge insulated wire or larger, run one pair of conductors directly from terminals of power source to rear connector of the breaker.

2.) As the circuit breaker also functions as an on-off switch, select a mounting position of your choice for optimum access and operating convenience.

3.) Solder a push-on terminal to the wire from the + terminal. Splice the - wire to the cable end at the breaker.



4.) The breaker may be mounted using either the bracket provided or in a 1/2" diameter hole.

OPERATION

The circuit breaker is energized by putting the switch in the "on" position. When installed as illustrated, the circuit breaker will also function as an external on-off switch. To re-set, cycle switch to the "off" position and return to "on" position. If used mobile, start engine before turning on as an instantaneous voltage is built up before the car regulator closes. This is particularly important in cold weather.

THEORY

When the current drawn from the external power source exceeds trip point of circuit breaker, the 12 volt line is opened. This action approximates the protective functions normally found in the power supply circuits provided in TEN-TEC equipment.

SPECIFICATIONS

MODEL	OPERATING RATING	MAX. TRIP RATING
1125	9 amps	13.5 amps