

April 4th 2015

Installation Advisory IA E-04C.0

To: ACK Technologies Inc. model E-04C 121.5/406 MHz ELT distributors and installers:

E-04C ELT installation and operation manual Rev 1.1 and Rev 1.2

The manual Revisions 1.1 and 1.2 show a ¼ amp circuit breaker or fuse to protect the uninterrupted power input for the remote control. This is a minimum size fuse or breaker. We would recommend a maximum of 3 amps for 24 gage and larger wire. Power can be shared with an existing breaker if there is enough capacity to remaining on the circuit to provide the additional current requirements shown on page 15 of the manual. AC-43.13b recommends maximum size of a circuit breaker or fuse used with various gage wires this chart as shown below.

TABLE 11-3. DC wire and circuit protector chart.

Wire AN gauge copper	Circuit breaker amp.	Fuse amp.
22	5	5
20	7.5	5
18	10	10
16	15	10
14	20	15
12	30	20
10	40	30
8	50	50
6	80	70
4	100	70
2	125	100
1		150
0		150

Basis of chart:
 (1) Wire bundles in 135 °F. ambient and altitudes up to 30,000 feet.
 (2) Wire bundles of 15 or more wires, with wires carrying no more than 20 percent of the total current carrying capacity of the bundle as given in Specification MIL-W-5088 (ASG).
 (3) Protectors in 75 to 85 °F. ambient.
 (4) Copper wire Specification MIL-W-5088.
 (5) Circuit breakers to Specification MIL-C-5809 or equivalent.
 (6) Fuses to Specification MIL-F-15160 or equivalent.