

Energy Management Solutions

RF Data Collector – Model 21820

Manufactured by Lester Electrical Inc, Lincoln NE. FCC ID #: OBH 21820

Distributed by: Energy Management Solutions, Santa Fe Springs, CA.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Installation Instructions

Tools needed to Install RF Data Collector Model 21820

Drill, 7/64" drill bit, Phillips screwdriver, diagonal wire cutters, Anderson Connector - Terminal Cable extractor, 1/4 x 12" acid resistant cable ties.

CAUTION: Use caution when working with industrial batteries, they can be very dangerous. Industrial batteries contain acid, (electrolyte solution) which can cause chemical burns and serious harm to skin and eyes. Always wear approved protective eye goggles and rubber gloves. Avoid prolonged breathing of battery vapors; work in a well-ventilated area. Battery vapors can be flammable, do not rest tools on top of battery or allow any metal objects to come in contact with battery posts or inter-cell connectors.

PROCEDURE

1. Examine the battery and determine where the RF Data Collector Model 21820 will be located. It should be located as close to a line of sight opening in the battery compartment as possible.
2. With caution, use the Anderson Terminal - Cable extractor to remove the positive, (red) battery cable from the connector.
3. Slide the RF Data Collector unit over the battery cable with the red and black power leads facing away from the battery. Note: If RF Data Collector is installed on the negative, (black) battery cable, slide the RF Data Collector over the cable with the red and black power leads facing toward the battery.
4. Re-install the battery cable in the Anderson battery terminal.
5. Secure the RF Data Collector in a convenient location to adjacent inter-cell connectors leaving enough power lead length to allow battery cable to move freely.
6. The RF Data Collector is powered by 12 volts dc from the battery. You will need to determine which series of six cells are best situated to supply power to the RF Data Collector. After locating the first and sixth cell, remove the inter-cell plastic protective cover. Drill a 7/64" hole approximately 1/4" deep in the top of the positive cell post.
7. Install the red RF Data Collector ring terminal on top of, (first of a series of six) positive cell post using caution to avoid over or under tightening of the screw. Re-install the plastic inter-cell protective cover.
8. Install the black RF Data Collector ring terminal on top of, (sixth of a series of six) negative battery post repeating the above procedure.

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9. Using cable ties, arrange the RF Data Collector power leads neatly on top of the battery and secure them to adjacent inter-cell connectors.
10. The LED located on top of the RF Data Collector should be blinking from red to green alternately, indicating a proper installation. If the LED does not blink, verify the number of cells and polarity of connections to determine the cause.
11. During normal operation of the battery, the LED on the RF Data Collector will blink Green indicating a run or charge condition. The LED will blink red while the battery is being charged.

There are no user serviceable parts in the RF Data Collector. Any attempt to access or repair any internal components will void the manufacturer's warranty.

For product warranty or customer assistance, please contact Energy Management Solutions at: (949) 480-0422 or Lester Electrical Inc. at (402) 441-3720