

NPB-LON Option Card

INSTALLATION INSTRUCTIONS

GENERAL

This document covers the mounting and wiring of the NPB-LON Option Card in a Honeywell WEB-201 Controller. For related WEB-201 Controller installation details, see the WEB-201 Controller Installation Instructions, literature no. 95-7722.

The Honeywell NPB-LON Option Card uses a FTTP-10A LON[®] (LONWORKS[®]) adapter with a 2-position removable screw-terminal connector plug. Up to two LON Option Cards may be installed. If installing one LON Option Card, it operates as LON1 regardless of slot. If two LON Option Cards are installed, LON1 is option slot 1, LON2 is option slot 2. See Fig. 2 for location of option slots.

SAFETY INSTRUCTIONS

NOTES REGARDING DEVICE DESCRIPTION

These instructions include indications for use and mounting of the device. In case of questions that cannot be answered with these instructions, please consult the product supplier or manufacturer. It is the responsibility of the equipment installer to ensure that all federal, state and local codes are followed.

SAFETY INSTRUCTIONS

- Keep these Installation Instructions for industrial safety and the prevention of accidents.
- Only qualified personnel shall do mounting and installation work with these devices, see section titled "Qualified Personnel".
- The information in these instructions must be read and understood by every person using this device.

QUALIFIED PERSONNEL

Qualified personnel in the sense of these instructions are persons who are well versed in the use and installation of such devices and whose professional qualification meets the requirements of their work.

This includes, for example:

- Qualification to connect the device according to applicable specifications and regulations, and a qualification to put this device into operation, to power it down, or to activate it by respecting the internal directions.
- Knowledge of safety rules.
- Knowledge about application and use of the device within the equipment system.

BEFORE INSTALLATION

1. Unpack the NPB-LON Option Card.
2. Check the equipment and report any damage to a Honeywell representative.
3. Read all of these instructions and ensure they are understood.

Included in this Package

Included in this package are the following items:

- One NPB-LON Option Card, along with connector and end plate.
- One 2-position terminal plug, for wiring to a FTTP-10A LONWORKS network.
- INSTALLATION INSTRUCTIONS literature no. 95-7729.

Materials and Tools Required

The following tools and supplies may be required for installation:

- #2 Phillips screwdriver: used to install the NPB-LON Option Card.
- Small flat-blade screwdriver: used for making wiring connections to the FTTP-10A LONWORKS network.



MOUNTING

! WARNING

Power to the WEB-201 Controller must be OFF when installing or removing option cards, or damage will occur! Also, be very careful to plug any option card into its connector properly (pins aligned).

Mount the NPB-LON Option Card in either of the option card slots of the WEB-201 Controller, as available. See the GENERAL section regarding LON adapters software assignments if installing two NPB-LON Option Cards.

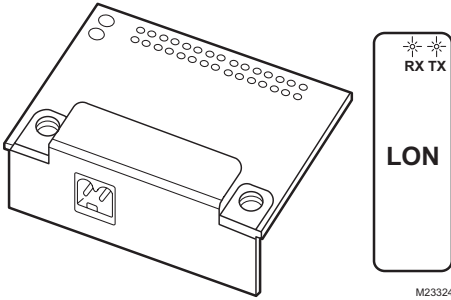


Fig. 1. NPB-LON Option Card.

1. **Power down** the WEB-201 Controller (see WARNING above).
2. Remove the WEB-201 Controller cover.
 - a. Press in the four tabs on both ends of the unit, and lift the cover off.

NOTE: If accessory modules are plugged into the WEB-201 Controller, slide them away from the unit to get to the cover tabs.

3. Remove the battery and bracket assembly by taking out the four screws holding it in place, setting the screws aside for later.
 - b. Unplug the battery from the connector on the WEB-201 Controller:

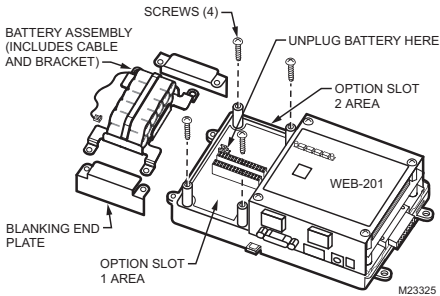


Fig. 2. Removal of screws and battery assembly.

4. Remove the blanking end plate for the slot in which the Option Card is being placed.
 - a. Retain the blanking end plate in case the NPB-LON Option Card must be removed at a later date.
5. Carefully insert the pins of the NPB-LON Option Card into the socket of the appropriate option card slot. The mounting holes on the option board should line up with the standoffs on the base board. If they do not, the connector is not properly aligned.
 - b. Press until the NPB-LON Option Card is completely seated.
6. Place the custom end plate that came with the NPB-LON Option Card over its connector.
7. Plug the battery cable into the battery connector on the WEB-201 Controller.

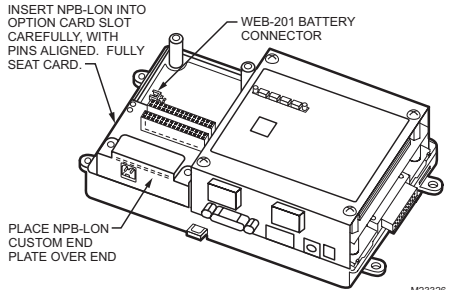


Fig. 3. Top view, NPB-LON end plate insertion.

8. Set the battery and bracket assembly back over the option card slots, with the mounting holes aligned with the standoffs.
9. Place the four screws through the battery bracket, end plate, and into the standoffs on the WEB-201 Controller base board. Hand tighten these screws.

HAND TIGHTEN THE FOUR SCREWS THROUGH BATTERY BRACKET, END PLATES, INTO STANDOFFS

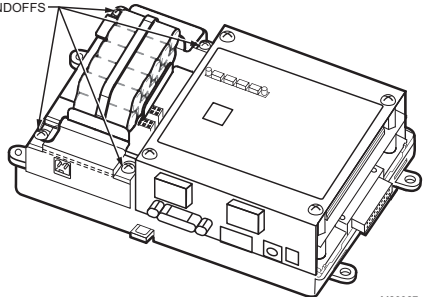


Fig. 4. Battery bracket screw re-fastening.

10. Replace the WEB-201 Controller cover.
 - c. If accessory modules were unplugged, plug them back into the WEB-201 Controller as before and secure.

WIRING

Connect LON LONWORKS FTT-10 communications wiring to the 2-position connector of the NPB-LON Option Card. Note that polarity is not a factor in FTT-10 wiring.

Refer to the *LONWORKS FTT-10A Free Topology Transceiver User's Guide (078-0156-01F)* for technical guidelines associated with free topology restrictions, and the *Junction Box and Wiring Guidelines for Twisted Pair LONWORKS Networks (005-0023-01)* for more detailed information on wiring specifications. These documents are available on Echelon's[®] web site (www.echelon.com).

LEDS

Two LEDs are visible on the top of the NPB-LON Option Card (cover must be removed from the WEB-201 Controller):

- RX (green) - Receive, indicates that another LONWORKS device is transmitting a message.
- TX (yellow) - Transmit, indicates that the WEB-201 Controller is transmitting a message on the LON trunk.

These LEDs are included on the top label of the NPB-LON Option Card, See Fig. 1.

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