



Installation Instructions

Part No. 30RC70000801 (LonWorks)

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SAFETY CONSIDERATIONS

Installation of this accessory can be hazardous due to electrical components and equipment location (such as a roof or elevated structure).

Only trained, qualified installers and service technicians should install and service this equipment.

When installing this accessory, observe precautions in the literature and on labels attached to the equipment, as well as other safety precautions that may apply.

- Follow all safety codes.
- Wear safety glasses and work gloves.
- Use care when handling and installing this accessory.
- Follow proper Lockout/Tagout procedures.

⚠ WARNING

Electrical shock can cause personal injury and death. Shut off all power to this equipment during installation and service. There may be more than one disconnect switch. Tag all disconnect locations to alert others not to restore power until work is completed.

INTRODUCTION

The LonWorks¹ Carrier Translator Accessory module with LON FT-10A communication, shown in Fig. 1, is a microcontroller-based module that provides the ability to easily interface Carrier CCN controllers to third party non-Carrier control equipment. The LonWorks Carrier Translator provides CCN to LonWorks FT-10A ANSI/EIA-709.1 protocol conversion. See Table 1 for the contents of the Carrier CCN LonWorks Translator accessory package. The accessory kit provides all necessary wires and hardware for accessory installation.

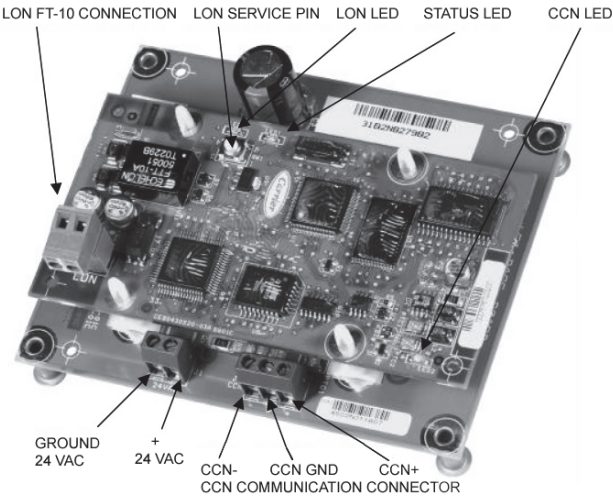


Fig. 1 — LonWorks Translator Module

Table 1 — Accessory Package Contents
(30RC70000801)

ITEM #	ITEM	P/N	QTY
1	LON Translator Module	33CNTRANLON-01-R	1
2	SCREW	AL04AU130	4
3	WIRE TIE	HY76TB110	4
4	HARNESS ASSY	30RCHAAFL-A00	1

INSTALLATION

Preliminary Steps

Follow these steps for the LonWorks Translator:

1. Inspect package contents for missing or damaged parts. File a claim with the shipping agency if parts are damaged, and notify your Carrier representative if any item is missing.
2. Open and tag all electrical disconnects in accordance with proper Lockout/Tagout procedures.
3. Open the unit control box door.
4. Install the LonWorks Carrier Translator module in the location shown in Fig. 2 or 3 by using screws (Item #2).
5. Proceed to the steps outlined in the “LonWorks Translator” section on page 4 as appropriate.

1. Third-party trademarks and logos are the property of their respective owners.

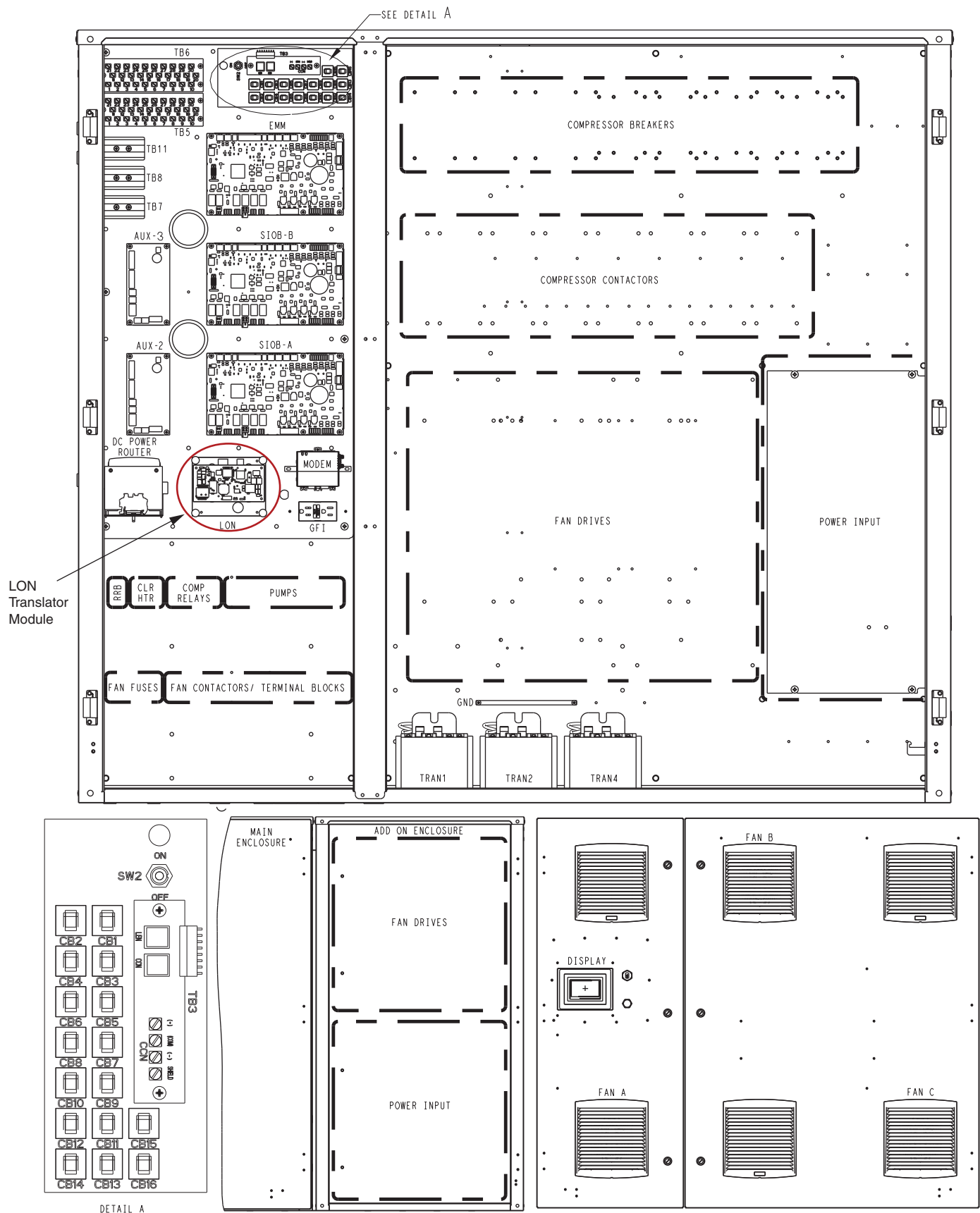


Fig. 2 — Translator Module Installation Location for 30RC065-252 Large Main Control Box

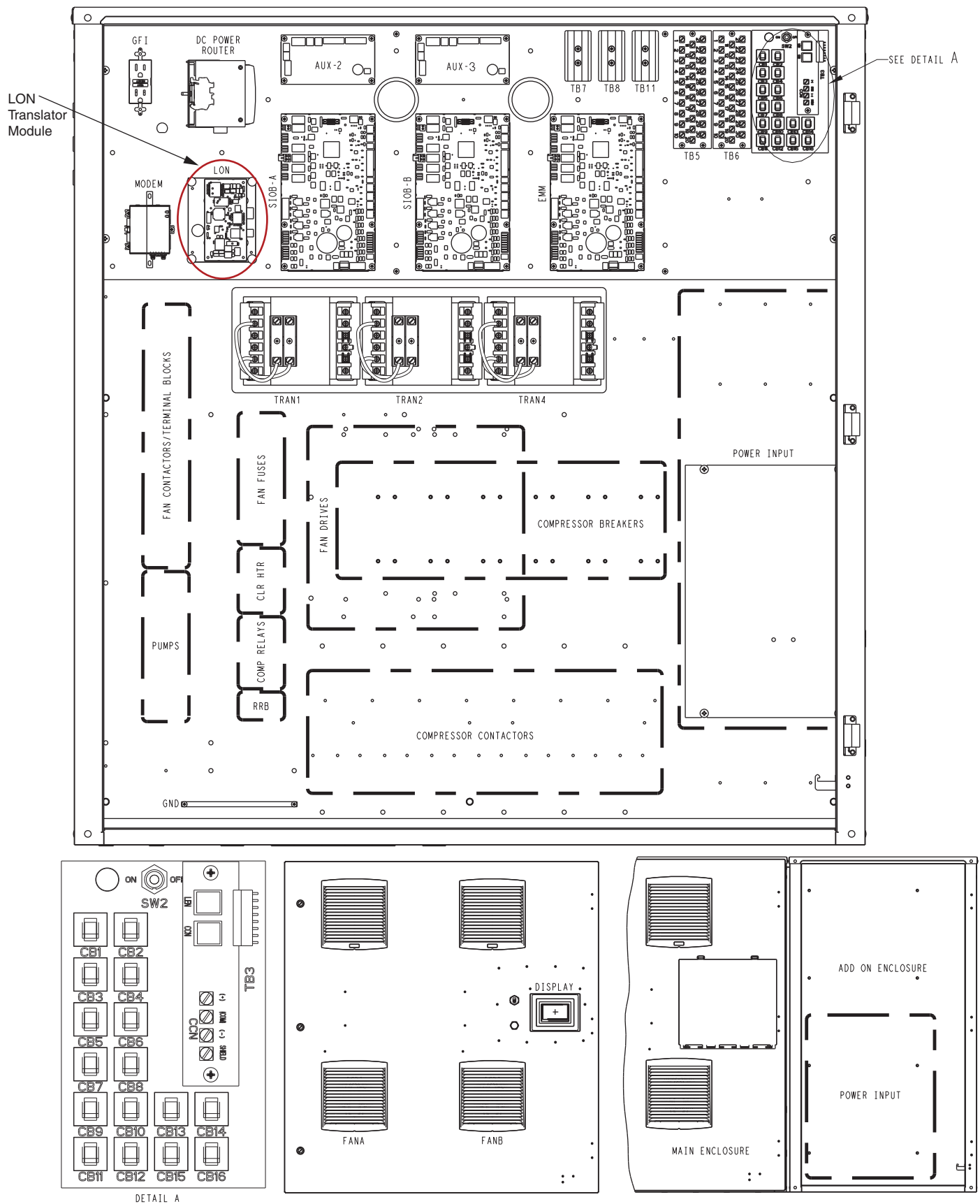


Fig. 3 — Translator Module Installation Location for 30RC065-152 Small Main Control Box

LonWorks Translator

1. Complete the procedure outlined in the “Preliminary Steps” section on page 1.
2. Referring to Table 1, locate P/N 30RCHAAFL-A00, Item #4, wire harness in the accessory kit.
3. Connect the red wire labeled TB8-2 to an open connection point on terminal block TB8-2.
4. Connect the other end of the red wire labeled LON J1-24VAC to the J1-1 terminal on the LonWorks Translator board.
5. Connect the brown wire labeled TB11-X2 to an open connection point on terminal block TB11-X2.
6. Connect the other end of the brown wire labeled LON J1-GND to the J1-2 terminal on the LonWorks Translator board.
7. Referring to Fig. 4, connect black wire labeled LON J2– to the terminal marked J2– on the LonWorks Translator board.
8. Connect the white wire labeled LON J2 G to the terminal marked J2 G on the LonWorks Translator board.
9. Connect red wire labeled LON J2+ to the terminal marked J2+ on the LonWorks Translator board.
10. Connect the other end of the cable which has 3 wires labeled TB3 CCN(+), TB3 CCN(COM) and TB3 CCN(-) to the corresponding terminals on TB3. See Detail A in Fig. 2 or 3 for location of TB3.
11. Ensure that electrical connections are tight, and restore power to the unit.

12. With power restored to the unit, the LonWorks Translator board has three LEDs that are used to indicate operational status. Refer to Table 2 for a description of each LED and what it indicates. For specific setup/configuration and table of points refer to the 30RC Start-up and Troubleshooting guides.
13. Remove tags from disconnects and close the control box door.

The LonWorks Carrier Translator’s default CCN address is 0,200 (bus number, system element number). The default CCN baud rate is 9600 bps.

Each LonWorks Carrier Translator has a unique LON address. The LON address can be sent to LON configuration tools when the LON Service Pin is pressed. See Fig. 1 for location of the LON Service Pin.

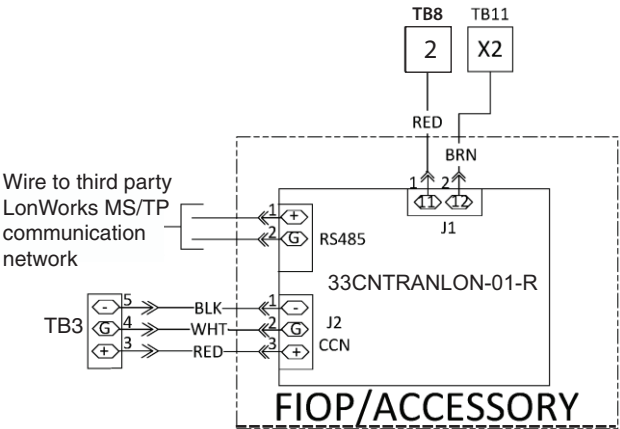


Fig. 4 — LonWorks Translator Module Wiring Diagram

Table 2 — LonWorks Translator LED Indicators

LED	COLOR	INDICATES
Status	Red	Operating, initialization and configuration status. The LED blinks at a 2 Hz rate when initializing and at 1 Hz when operating correctly.
CCN	Yellow	The Carrier Translator is sending CCN communication messages to the connected CCN controller. If the connected CCN controller is responding, its CCN LED will blink when a message is sent back to the Carrier Translator.
LON	Green	The Carrier Translator is sending LON communication messages to the third party LonWorks network.