

Installation Instructions

Part Number 30GT-911---063

SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service air-conditioning equipment.

Untrained personnel can perform basic maintenance functions of cleaning coils and filters and replacing filters. All other operations should be performed by trained service personnel. When working on air-conditioning equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloth for unbrazing operations. Have fire extinguisher available for all brazing operations.

It is important to recognize safety information. This is the safety-alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, CAUTION, and NOTE. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in personal injury or death. CAUTION is used to identify unsafe practices, which **may** result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

WARNING

To avoid the possibility of electrical shock, open and tag all disconnects before installing this equipment. Be aware that there may be more than one disconnect. Serious personal injury may result.

INSTALLATION

The service port is intended to allow remote connection of the ComfortLink Navigator™ display. This will allow service technicians to use the Navigator module right at or near the chiller's compressors when servicing or troubleshooting. See Table 1 for accessory package contents. The suggested mounting position is shown in Fig. 1. Locations for the service port are shown in Fig. 2 and 3, referenced in Table 2.

The 30RB315-390 units are modular combinations. These units require two accessory kits. See Table 3.

Table 1 — Accessory Package Contents

ITEM	PART NO.	QUANTITY
Utility Box	HX30FZ012	1
Cover	HX28ZZ001	1
Conduit Assembly	30GT415675	1
Modular Jack	HK50AA040	1
Screws, 1/4 in. diameter by 5/8 in. Long	AL38AM307	2
Wire Ties	HY76TB125	12

1. Locate the utility box and knock out two mounting holes in the back of the box. Using the box as a template, position the box in the desired mounting position and secure the box to the upright or baffle using the screws provided. Drill 3/16 in. holes if necessary for mounting.

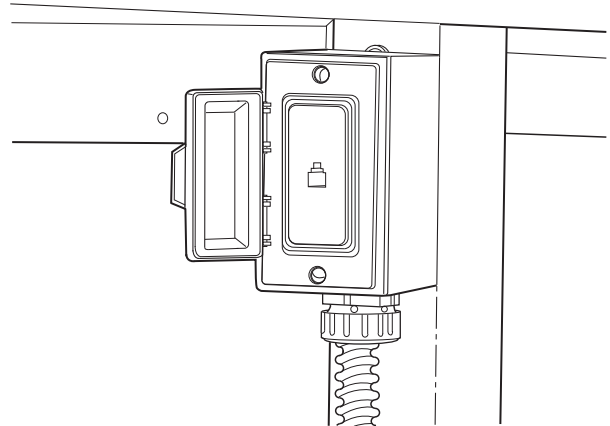


Fig. 1 — Service Port Accessory

2. Attach the forked terminal end of the conduit assembly to the bottom of the utility box. Connect each of the five fork terminals to the modular jack. See Fig. 4.
3. Using the screws provided with the modular jack, attach the jack to the utility box.
4. Locate the gasket and screws provided with the cover. Carefully remove the inner portion of the gasket and attach the cover to the utility box.
5. Locate the plugs provided with the utility box. Use silicone caulk on the threads and secure the plugs into the unused box openings.

6. The connector at opposite end of the conduit assembly must be connected to the local equipment network (LEN) connector on TB3. Refer to Table 4 for LEN connector and conduit routing locations. For 30XA units with Navigator option factory installed, the Navigator module needs to be disconnected to allow the service port cable to be plugged in. See Fig. 5-8, referenced in Table 4.

NOTE: Do NOT connect the service port to the CCN (Carrier Comfort Network®) connector, as it may damage the device. Refer to Fig. 5-8 for both the LEN and CCN connectors.

7. Use the wire ties provided to secure the conduit assembly as needed. For 30XA units, secure conduit to bundle of sensor wiring. See Table 4.

The Navigator module is intended for use with the service port. It must be ordered separately, Carrier accessory part number 30GT-911---062. Refer to the instructions provided with the Navigator module accessory for more details.

Table 2 — Service Port Locations

UNIT SIZE	LOCATION	SEE FIGURE NO.
30RB060-100	Coil rail between the first and second condenser V section.	2
30RB110, 120	Coil rail between the second and third condenser V section.	2
30RB130-390^a	Right side of the power panel.	2
30XA080	Compressor side coil rail between the first and second condenser V section.	3
30XA090-120	Compressor side coil rail between the second and third condenser V section.	3

NOTE(S):

- a. 30RB315-390 are modular combinations. See Table 3 for unit sizes and modular combinations.

Table 3 — Unit Sizes and Modular Combinations^a

MODULE UNITS	MODULE A	MODULE B
30RBA315	30RBA160	30RBA160
30RBA330	30RBA170	30RBA160
30RBA345	30RBA170	30RBA170
30RBA360	30RBA190	30RBA170
30RBA390	30RBA190	30RBA190

NOTE(S):

- a. An "A" in the model number indicates the design series.

Table 4 — LEN Connector and Conduit Routing Locations

UNIT MODEL	VOLTAGES	DESCRIPTION OF LEN CONNECTOR AND ROUTING LOCATION	SEE FIGURE NO.
30RB060-120	All	The LEN connector can be accessed by opening the control box door. The LEN connector is located on TB3 at the right side of the display panel inside the control box. The rail that the control box is mounted on is hollow and the conduit assembly connecting the service port to the LEN connector is to be routed through that rail.	5
30RB130-300^a	All	The LEN connector can be accessed by opening the door of the fan electrical box next to the control box. The LEN connector is located on TB3 at the right side of the display panel in the fan electrical box. The rail that the fan electrical box is mounted on is hollow and the conduit assembly connecting the service port to the LEN connector is to be routed through that rail.	6
30XA080-120	200, 230, 380-v	The LEN connector can be accessed by opening the door of the small control box next to the main control/power box. The LEN connector is located on TB3 at the right side of the display panel in the small control box. Locate the sensor wiring bundle at the bottom of the small control box. The conduit assembly connecting the service port to the LEN connector is to be routed and secured to the sensor wiring bundle.	7
	460, 575-v	The LEN connector can be accessed by opening the door of the main control/power box. The LEN connector is located on TB3 at the right side of the display panel in the main control/power box. Locate the sensor wiring bundle at the bottom of the main control/power box. The conduit assembly connecting the service port to the LEN connector is to be routed and secured to the sensor wiring bundle.	8

NOTE(S):

- a. 30RB315-390 are modular combinations. See Table 3 for unit sizes and modular combinations.

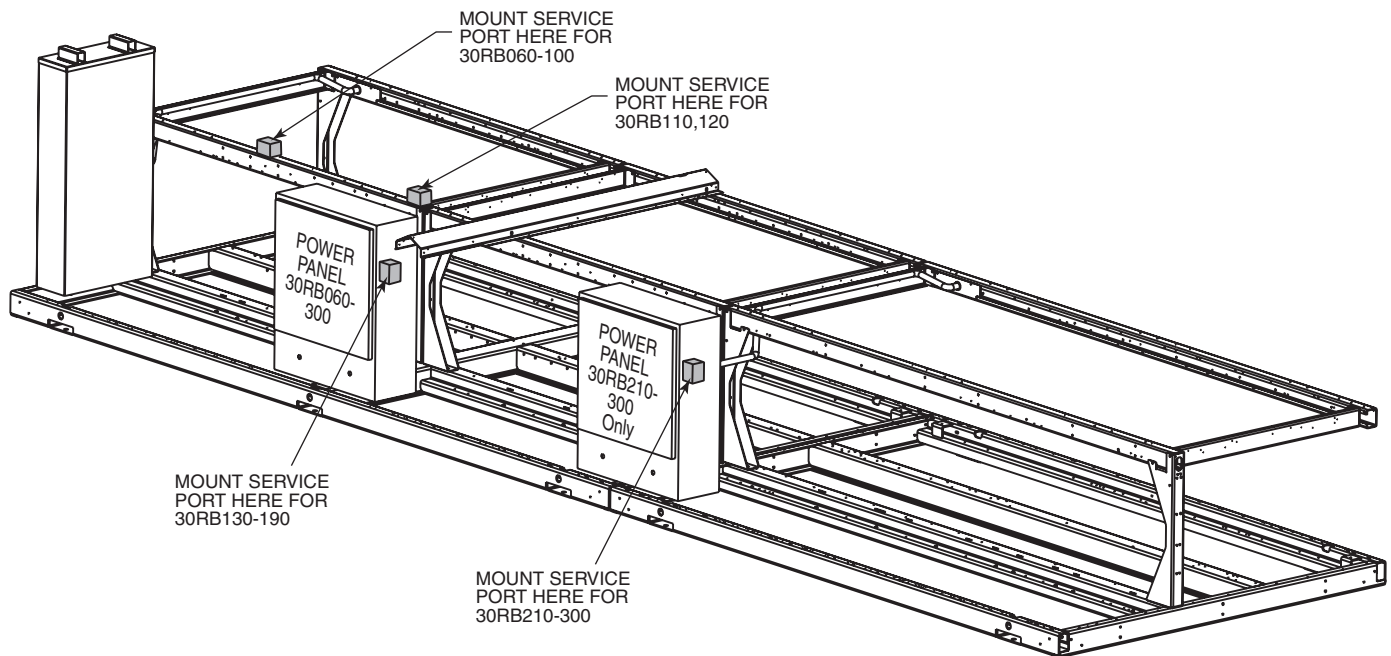


Fig. 2 — 30RB060-300, Service Port Mounting Locations

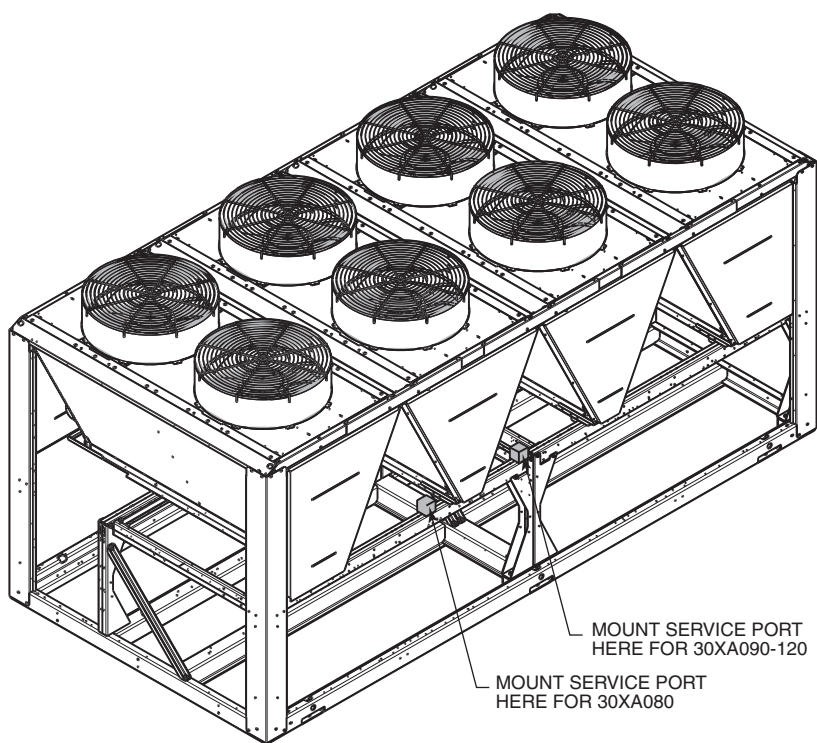


Fig. 3 — 30XA080-120, Service Port Mounting Locations

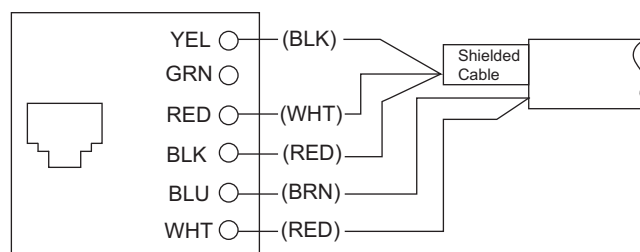


Fig. 4 — Service Port Wiring Detail

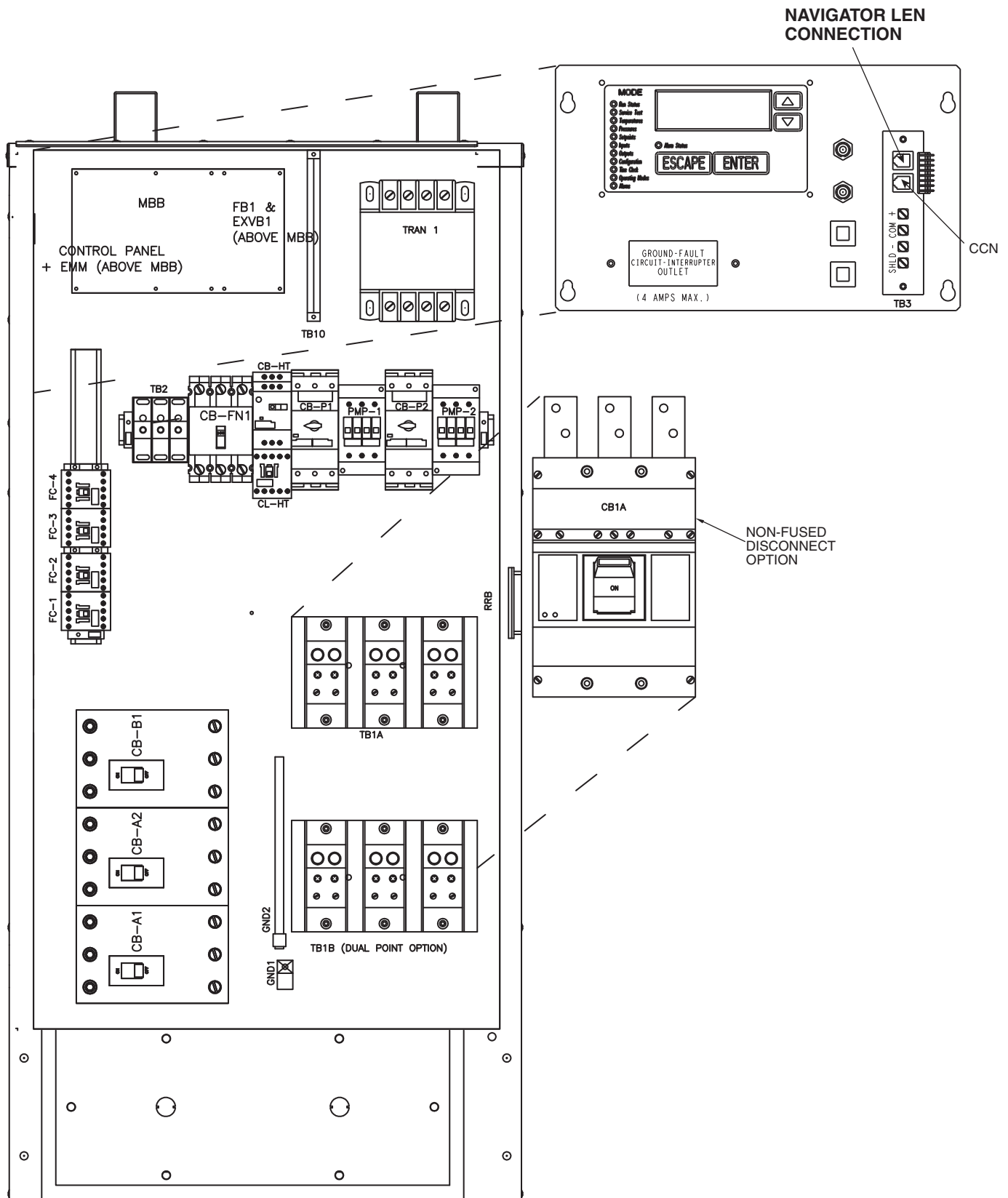


Fig. 5 — 30RB060-120 Units, TB3 Location — LEN Connection

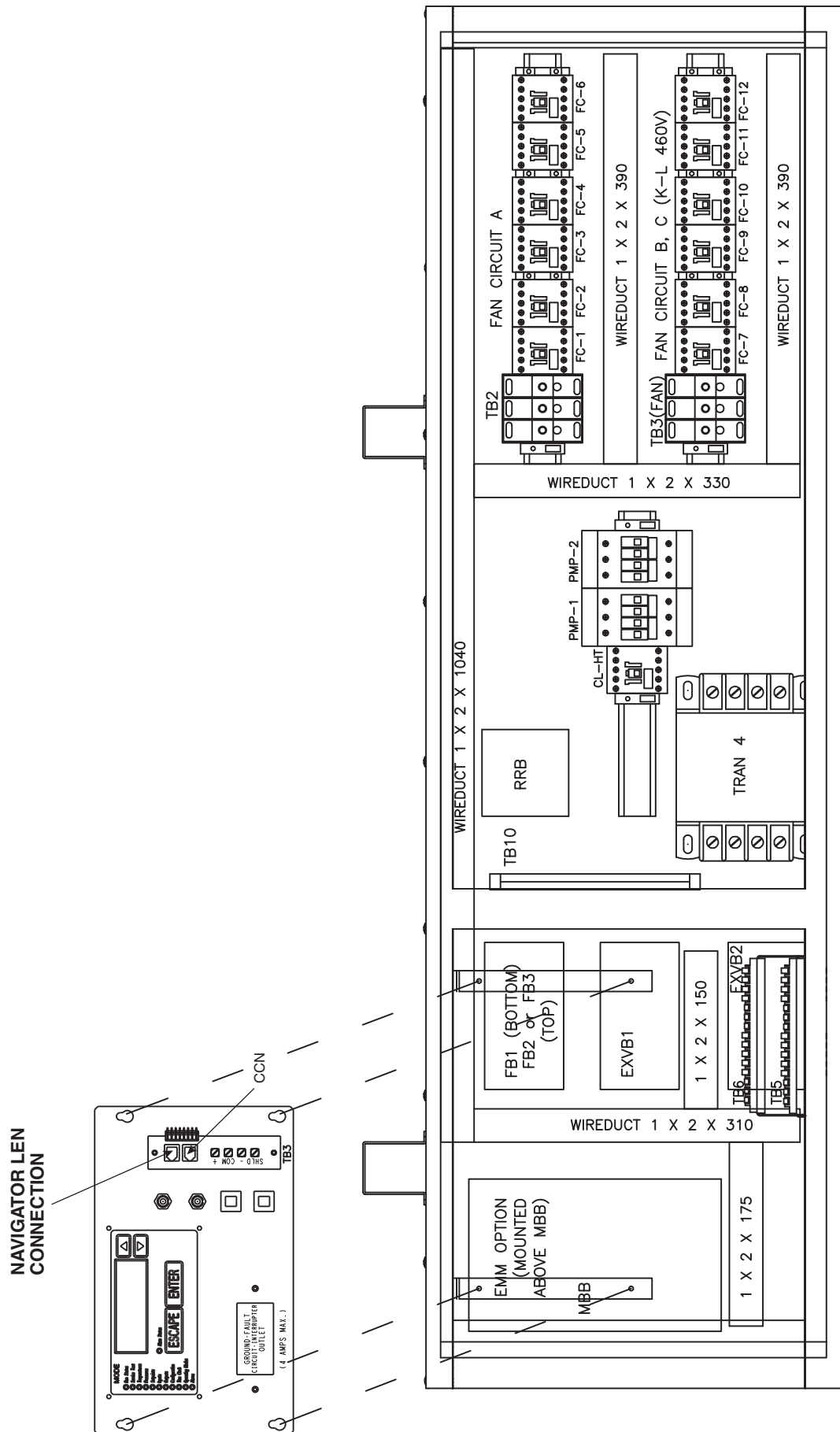


Fig. 6 — 30RB130-300 Units, TB3 Location — LEN Connection

