920i™ *Programmable Indicator*
Six-Card Expansion Board Installation Instructions
PN 69783

This document contains procedures used to install six-card expansion boards in wall mount models of *920i* indicators.

See the *920i Installation Manual*, PN 67887, for general installation and configuration information, including option card slot numbering and port assignments.

NOTE: The slot/location jumper on the six-card expansion board must be set to the 3–8 position for all standard installations. The 9–14 jumper position is used only in special applications using two six-card expansion boards.

⚠️ **Warning** — Disconnect power before removing indicator backplate.

⚠️ **Caution** — Use a wrist strap to ground yourself and protect components from electrostatic discharge (ESD) when working with circuit boards.

Option cards are not hot-pluggable. Disconnect power to the expansion board before installing option cards.

Ensure that option cards are aligned with standoffs and installed on the correct connector. Installing cards on the adjacent connector (for example, plugging a card intended for J6 onto the J3 connector) may damage the card.
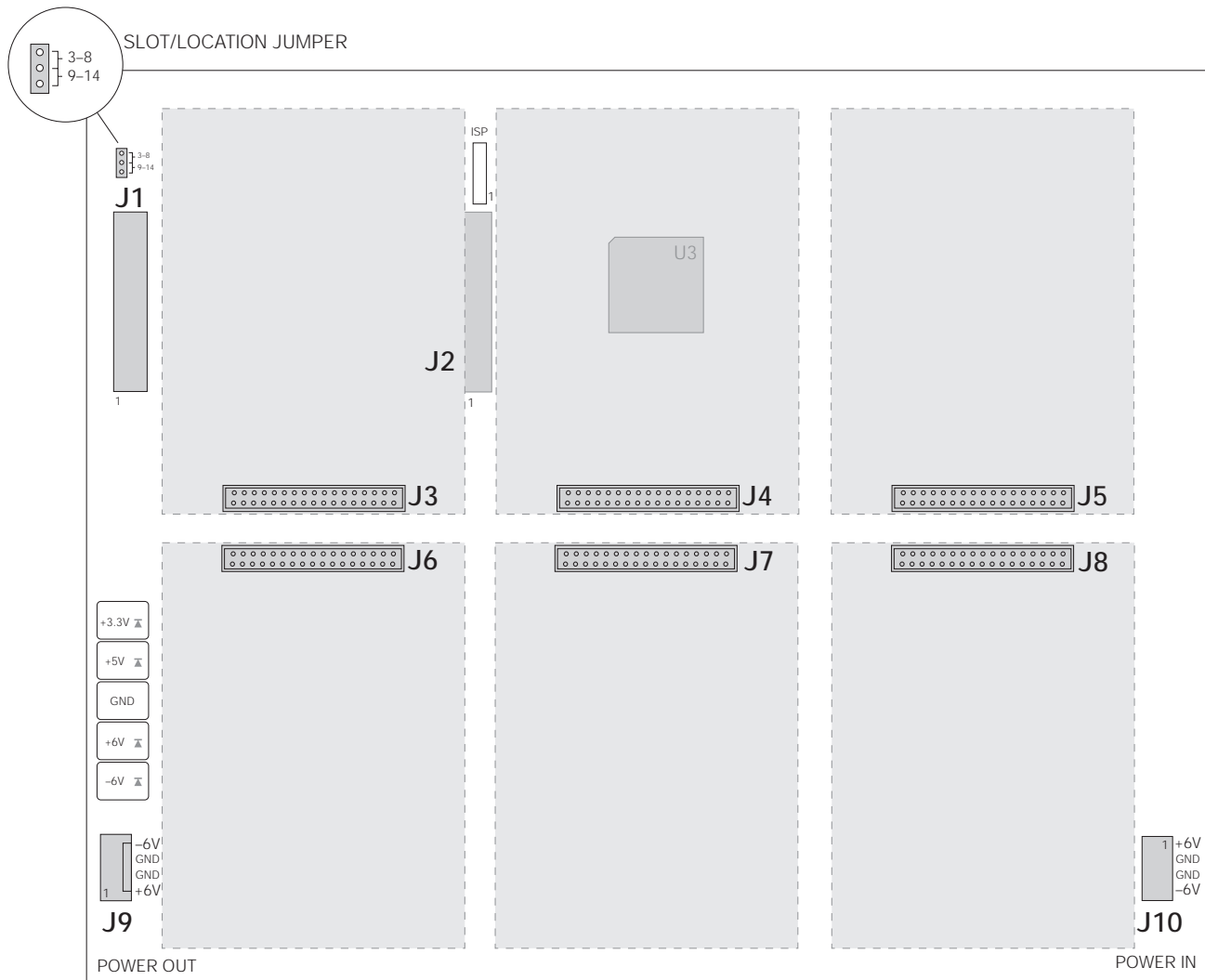

Figure 1. Six-Card Expansion Board

Wall Mount Installation

Use the following procedure to install the six-card expansion board in the wall mount enclosure. See Figure 2 below and Figure 3 on page 3 for locations of option kit components.

1. Disconnect indicator from power source.

2. Open enclosure.

3. Clip the six cable ties that secure the cable assembly from the power supply to the CPU board. Remove power supply cable.

4. Remove adhesive covering from two ribbon cable clamps and install on door and side wall of enclosure (see Figure 2 on page 2).

5. Mount six-card expansion board on studs at back of enclosure. Use ten 1/4" screws (PN 14839) to secure board to studs (see Figure 3 on page 3 for screw locations).

6. Attach ribbon cable to connector J7 on the CPU board, with the striped edge of the cable on the pin 1 side of the connector. (See Figure 3 on page 3 for connector and pin locations.)

7. Slide the ribbon cable into the cable clamps and attach to connector J1 on the expansion board, with the striped edge of the cable on the pin 1 side of connector J1. Note that the ribbon cable must be folded (see Figure 2) for correct orientation at the connector.

8. Attach long power cable assembly from connector J9 on the expansion board to the power input on the CPU board.

9. Attach short power cable assembly from power supply to connector J10 on the expansion board.

10. Set the slot/location jumper to the 3–8 position (see Figure 1 on page 1).

11. Install option cards onto expansion board (see page 3). Use the supplied cable ties to secure all loose cables inside the enclosure.
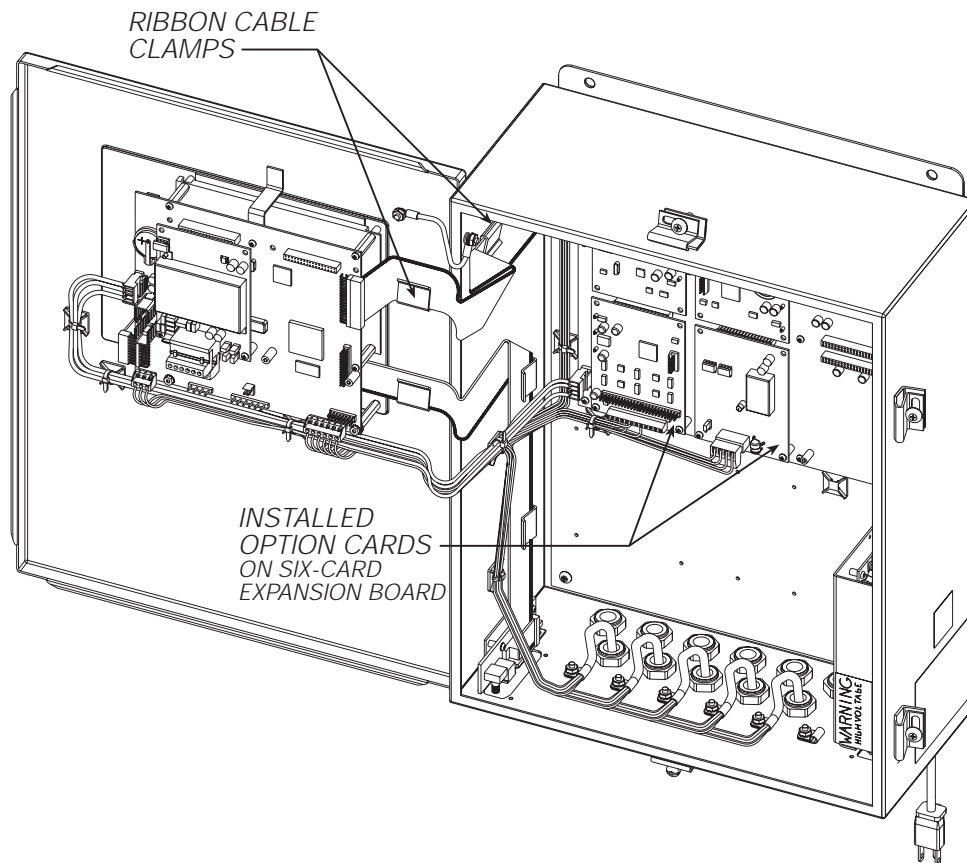

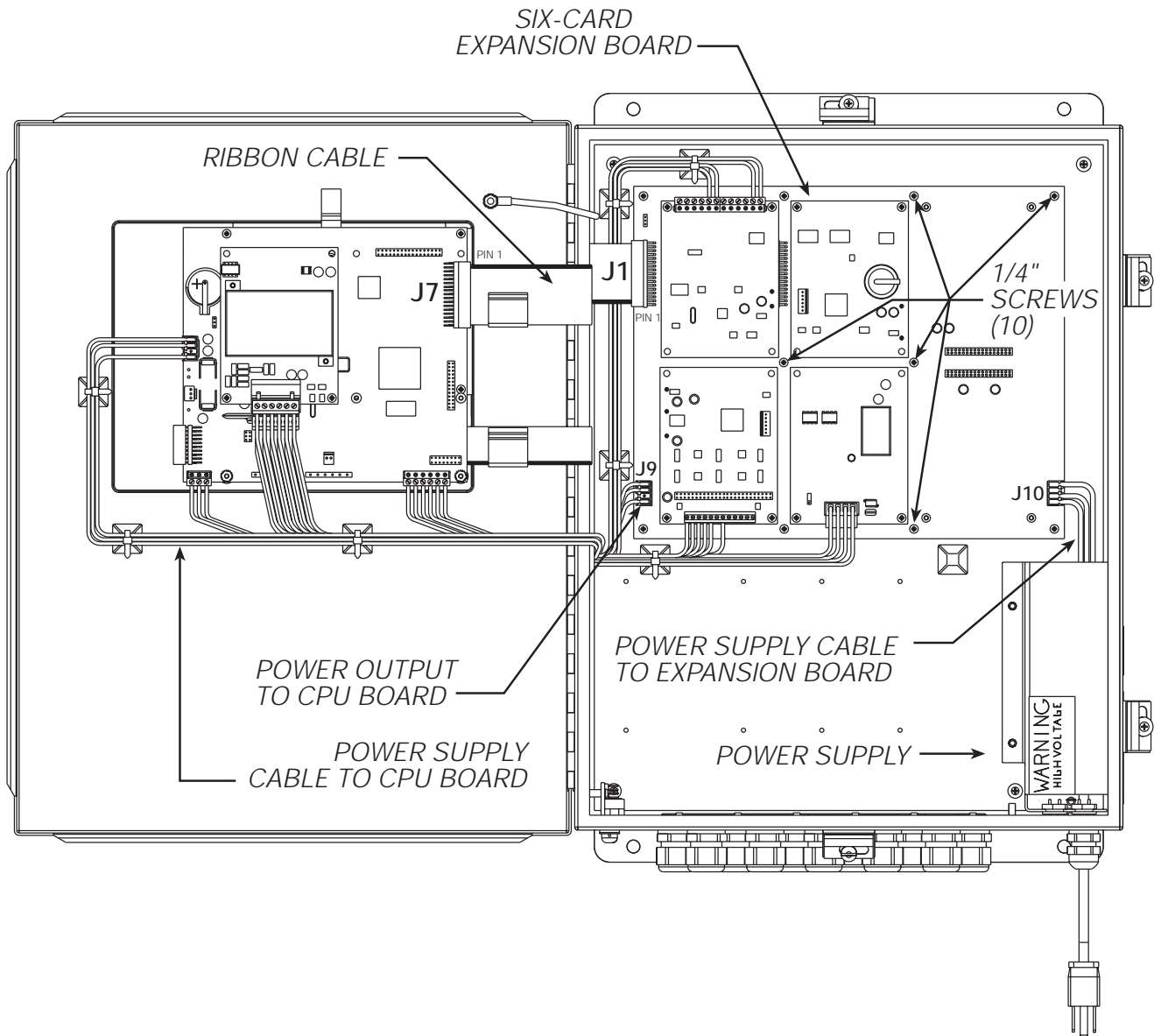*Figure 2. Six-Card Expansion Board Installed in Wall Mount Enclosure, Isometric View*

Figure 3. Six-Card Expansion Board Installed in Wall Mount Enclosure

Installing Option Cards

Each option card is shipped with installation instructions specific to that card. The general procedure for all option cards is as follows:

⚠️ **Caution** *Option cards are not hot-pluggable. Disconnect power to the 920i before installing option cards.*

Ensure that option cards are aligned with standoffs and installed on the correct connector. Installing cards on the adjacent connector (for example, plugging a card intended for J6 onto the J3 connector) may damage the card.

1. Carefully align the large option card connector with connector J3–J8 on the expansion board. Press down to seat the option card in the expansion board connector.

2. Use the screws provided in the option kit to secure the other end of the option card to the threaded standoffs on the expansion board.

3. Make connections to the option card as required. Use cable ties to secure loose cables inside the enclosure.

4. When installation is complete, secure the enclosure door and reconnect power to the indicator.

   The *920i* automatically recognizes all installed option cards when the unit is powered on. No hardware-specific configuration is required to identify the newly-installed card to the system.