

Number: SE-101, Revision: 01

July 2002

12/24V Interface Board Retrofit Instructions

12V Interface Board Removal:

1. Turn off all power to compact prover.
2. Open interface enclosure to gain access to the 12V interface board.
3. **Be sure to use an electrostatic discharge wrist strap, which is connected to a suitable ground, for all remaining steps.**
4. Note positions of connection plugs as they are in different locations on the new 12/24V board design. See Figure 1 and 2 for assistance. Remove plugs J1 - J5 from existing interface board (not all connections may be used).

A small flat blade screwdriver may aid in removal of connection plugs.

Do not pull plugs by wires!

5. Remove the three (3) retaining screws from the existing board with a flat blade screwdriver and remove the existing board from enclosure.

12/24V Interface Board Installation:

1. Ensure the interface enclosure power is off, then open the enclosure.
2. **Be sure to use an electrostatic discharge wrist strap, which is connected to a suitable ground, for all remaining steps.**
3. Temporarily move wires and plugs connected to the existing board out of the way as they will need to be repositioned. If existing wires cannot be repositioned to connect to the 12/24V board, contact a factory representative for assistance.
4. Place the new 12/24V interface board in position and anchor with three (3) retaining screws. Mounting of 12/24V card is identical to 12V card.

5. Note new positions of connections J1 - J5 on the 12/24V board.
6. Connect the plugs to the proper positions on the new 12/24V interface board. Be sure latches of plugs fit into retainers on the board. All plug latches point toward outside edges of board.

CAUTION**SERIOUS EQUIPMENT DAMAGE**

Ensure that plugs are connected properly.

Failure to connect plugs properly may cause serious equipment damage.

7. Take note of Jumper J6. Place jumper in correct position for power supply being used.

Pin configuration: 1-2, 12V
 1-3, 24V
8. Verify switch positions of S1 and S2. For normal prover operation, S1 is in the center position; S2 is set to downstream. Switch positions are printed on board for reference. Switch operation is identical to original board.
9. Note the position of J7. This connection is for case ground. If there is a connection wire between Pin 3 of TB1 and the enclosure ground lug, remove this wire or cut off Jumper J7 for proper operation.
10. Power supply specifications are:
 24VDC +/-15%, 250mA minimum
 12VDC +/-15%, 100mA minimum
11. Integrated fuse protection prevents damage to the board if power is incorrectly applied. If the fuse blows, the prover interface board will not function when J6 is in the 1-2 position. Replace with a 'fast blow' 100mA fuse only.
12. Close and secure interface enclosure, supply correct power to the 12/24V interface board, and restore power to the prover.

12V DC
PART NO. 911-12-072-02

12/24V DC
PART NO. 911-12-072-03

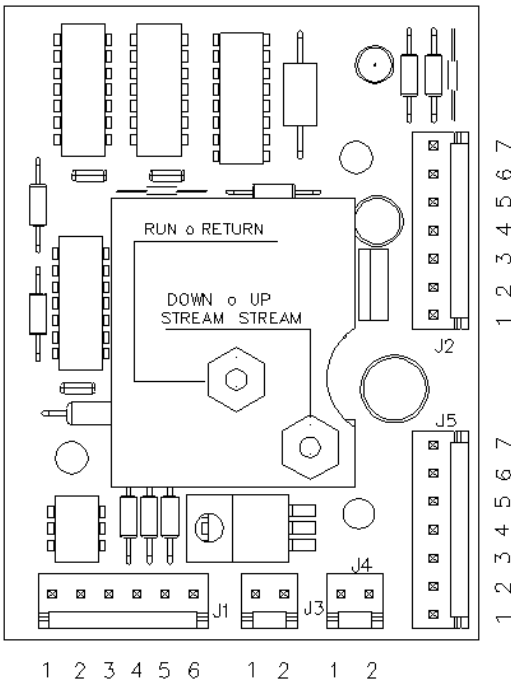


Figure 1. Old-Style 12 VDC Board

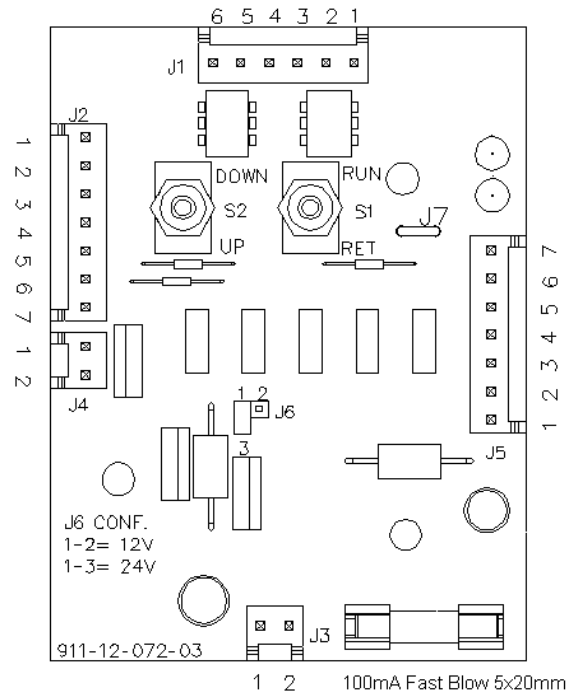


Figure 2. New-Style 12/24 VDC Board

NOTICE

Provers equipped with external detector indicator will no longer have indicator operation with the use of the new 12/24V interface board.