

DESCRIPTION

This Louis Allis kit includes all the material described in Table 1 and illustrated in Figure 1.

The relay modification PCB is designed for installation on the Main Control PCB of a Lancer JR. Type L1 inverter drive. A 3-15PSIG Follower mod kit, Model 92262, can also be installed in the inverter when this mod kit is present. If any additional modifications need to be used with this kit, a Multi Adapter modification assembly, Model 92327, MUST BE employed.

When installed, this kit allows the drive to respond to a remote three wire 24 VDC RUN-STOP command and remote speed reference.

INSTALLATION

IMPORTANT

a. If this mod kit is to be installed in the inverter, proceed to install according to these installation instructions.

b. If this mod kit is to be installed in a Multi Adapter mod assembly, FIRST complete installation steps stated in 02Y00025-0204. Then continue with these installation instructions.

1. Disconnect all electrical power to drive.

2. Open or remove drive front cover.

3. Verify voltage has been disconnected by using a voltmeter to check for voltage at incoming power terminals.

WARNING

HAZARDOUS VOLTAGE CAN CAUSE SEVERE INJURY OR DEATH.

LOCK ALL POWER SOURCES FEEDING DRIVE IN "OFF" POSITION.

4. See Figure 2. Remove the two Phillips screws which secure the existing Operators Control Station (OCS) plate. Also disconnect the five wires which connect to the Main Control PCB terminal strip.

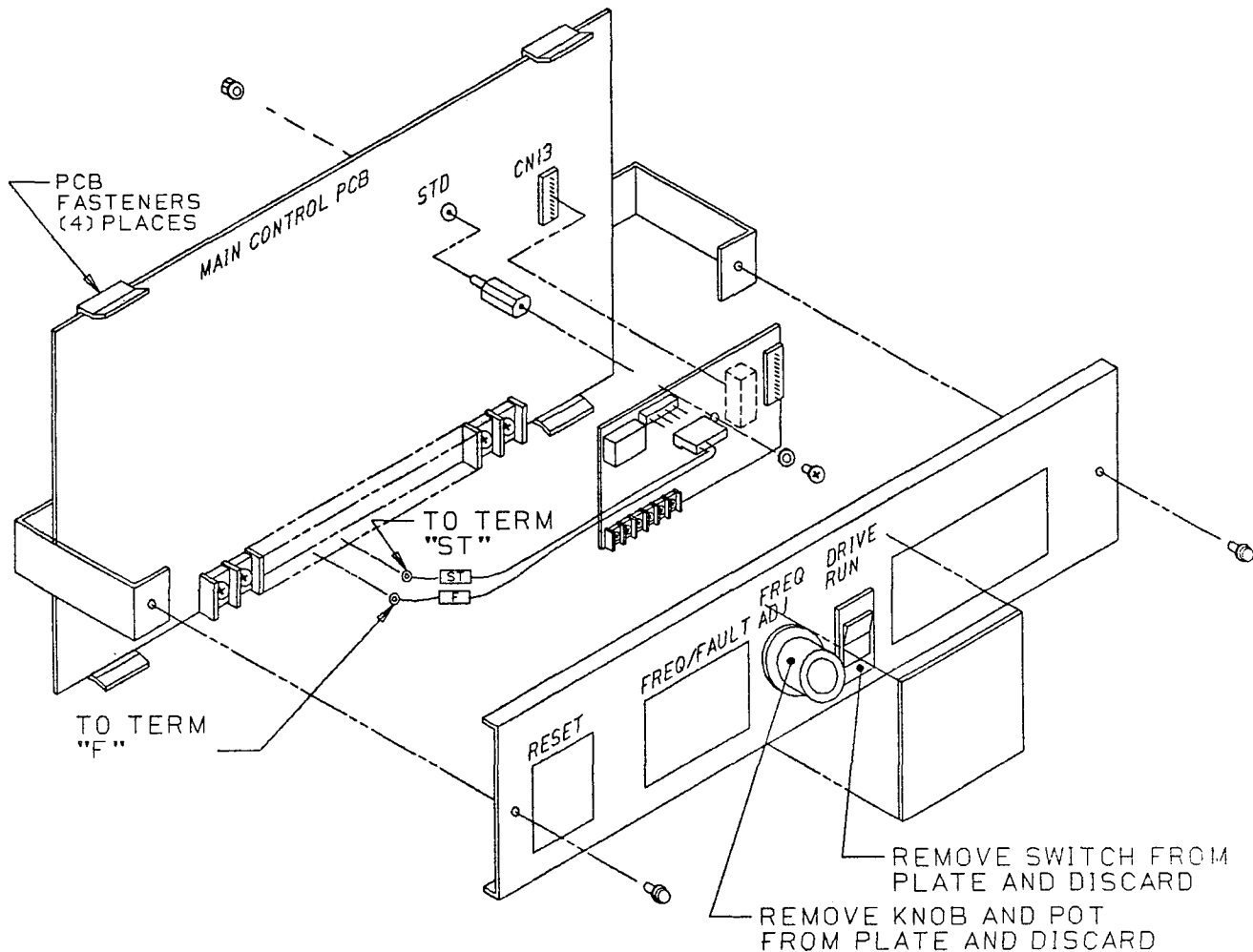
5. See Figure 2. Remove and discard the **FREQ. ADJ.** pot and knob and the **DRIVE RUN/STOP** switch from the OCS plate.

6. Remove the protective covering from the adhesive side of the cover plate supplied with this kit, and apply it to the OCS plate such that the existing holes and legends of the removed pot and switch are completely covered.

7. If installed in inverter:

a. See Figure 2. The Main Control PCB is held in place by (4) hinged locking PCB fasteners. Grasp the top of board in a convenient location and release from the top (2) fasteners by gently pulling the board forward while pushing upward on the locking portion of the fasteners.

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FIGURE 2.

b. See Figure 2. Insert the male end of the hexagonal metal spacer thru the 0.12 inch diameter hole designated "STD" on the Main Control PCB. Pivot the top portion of the board out and away from the chassis far enough to allow the 6-32 KEPS nut to be placed behind the PCB, and fastened to the metal spacer. Turn the metal spacer finger tight. Then snap the Main Control PCB back into place.

c. See Figure 2. Note that there is an 11-pin connector (13CONN) mounted on the back side of the relay modification PCB. Align this connector with

male connector CN13 on the Main Control PCB. Ensure that all 11 pins are engaged and then snap the board into place. Use the 6-32 Phillips screw, lock washer, and flat washer to secure the board to the metal spacer.

d. See Figure 2. Ensure the pins labeled 1 align with each other, and connect the 4-pin 1CONN female connector of the cable assembly to male plug 1CONN on the modification PCB.

e. See Figure 2. Connect ring lug ends of the cable assembly tagged ST and F to the respective terminals on the Main Control PCB.

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8. If installed in Multi Adapter:

NOTE

For this installation, the metal spacer and hardware provided in the mod kit will not be used.

a. At the option position where the board will be installed in the Multi Adapter, remove the hardware from the end of the metal spacer.

b. Note that there is an 11-pin female connector (13CONN) on the back side of the relay PCB. Position the board in the option position so that this connector is aligned with male pin connector CN13() on the Multi Adapter PCB. Ensure that all 11 pins engage and then snap into place. Use the hardware to secure the board to the metal spacer.

c. See Figure 3. Ensure that pins labeled 1 align with each other and connect the 4-pin 1CONN female connector of the cable assembly to male plug 1CONN on the modification PCB.

d. See Figure 3. Connect ring lug ends of the cable assembly tagged ST and F to terminals TGN and TGF, respectively, of terminal board TB12() on the Multi Adapter PCB.

e. See Figure 3. Connect #22 AWG wires to terminals TGN and TGP of TB12(). Feed the wires through the grommet of the Multi Adapter enclosure, route them to the inverter and connect to terminals ST and F on the Main Control PCB.

WIRING CONNECTIONS

9. See Figure 4. Make connections between the drive and remote OCS as follows:

a. Construct a three-conductor cable per NOTE 1. Tag each end of the wires 64, 65, 66 and connect per Table 2.

b. Construct a second three-conductor cable per NOTE 1. Tag each end of the wires 16, 17, 18 and connect per Table 3.

TABLE 2

FROM	WIRE #	TO
Main Control PCB Terminal CRF	64	High Side of SPEED Pot
Main Control PCB Terminal REF	65	Wiper of SPEED Pot
Main Control PCB Terminal OV	66	Low Side of SPEED Pot

TABLE 3

FROM	WIRE #	TO
Main Control PCB Terminal ST	16	One Contact of STOP PB
Modification PCB 1TB-1	17	One Contact of RUN PB. (Also add jumper as shown in Figure 4.)
Modification PCB 1TB-2	18	Other Contact of RUN PB.

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NOTE 1:

Use twisted three conductor wire rated 300 volts and twisted two to three turns per inch; #22 AWG for distances of less than 150 feet that meets local and national code requirements, or #16 AWG for distances of more than 150 feet and less than 600 feet.

10. Check the inverter instruction manual and other modification instruction sheets to ensure that all wiring required for proper operations has been completed.

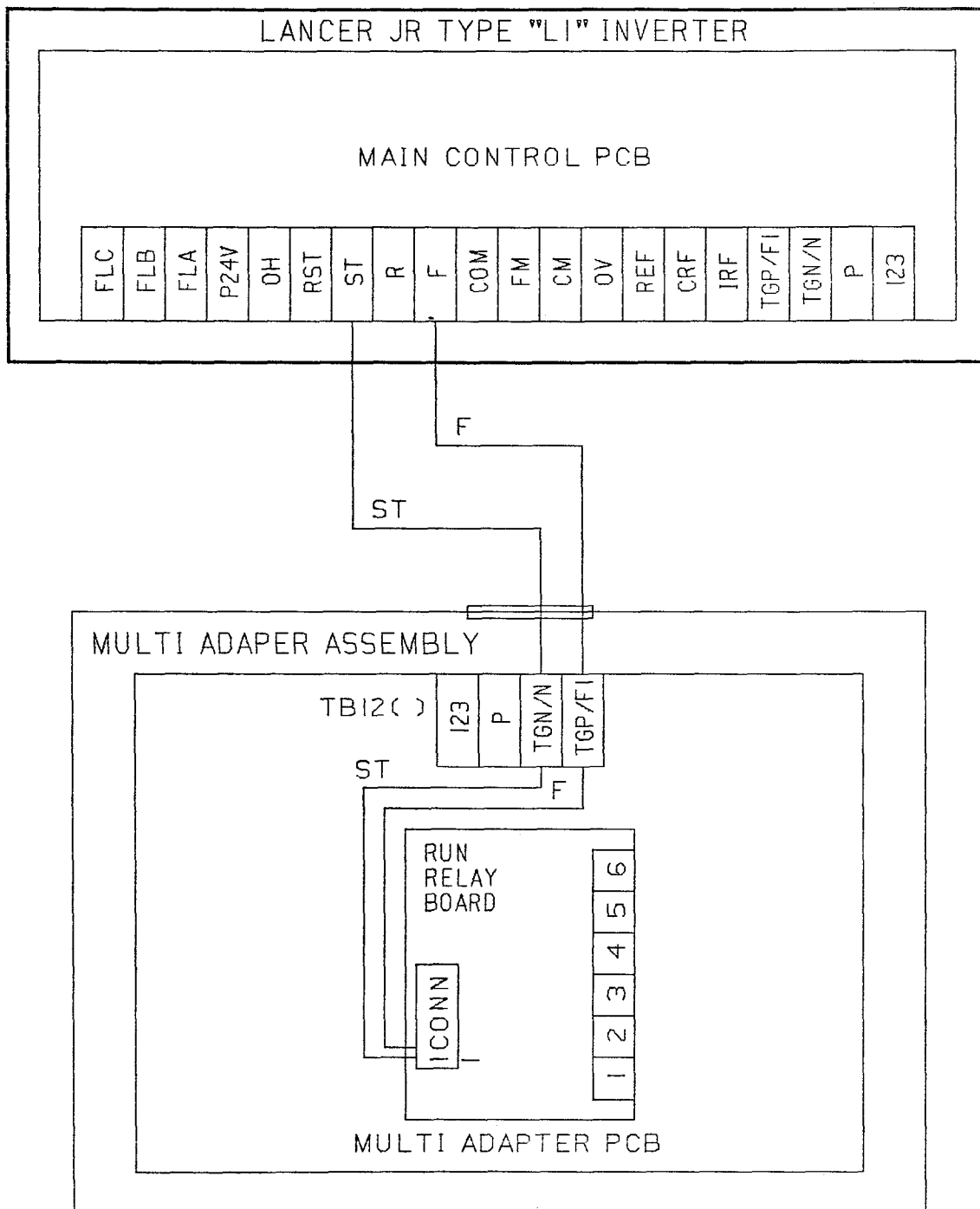
11. Reinstall the modified OCS plate.

12. Replace and secure all enclosure covers.

13. Place this instruction sheet immediately behind the front cover of the inverter instruction manual.

This completes the installation of the modification kit.

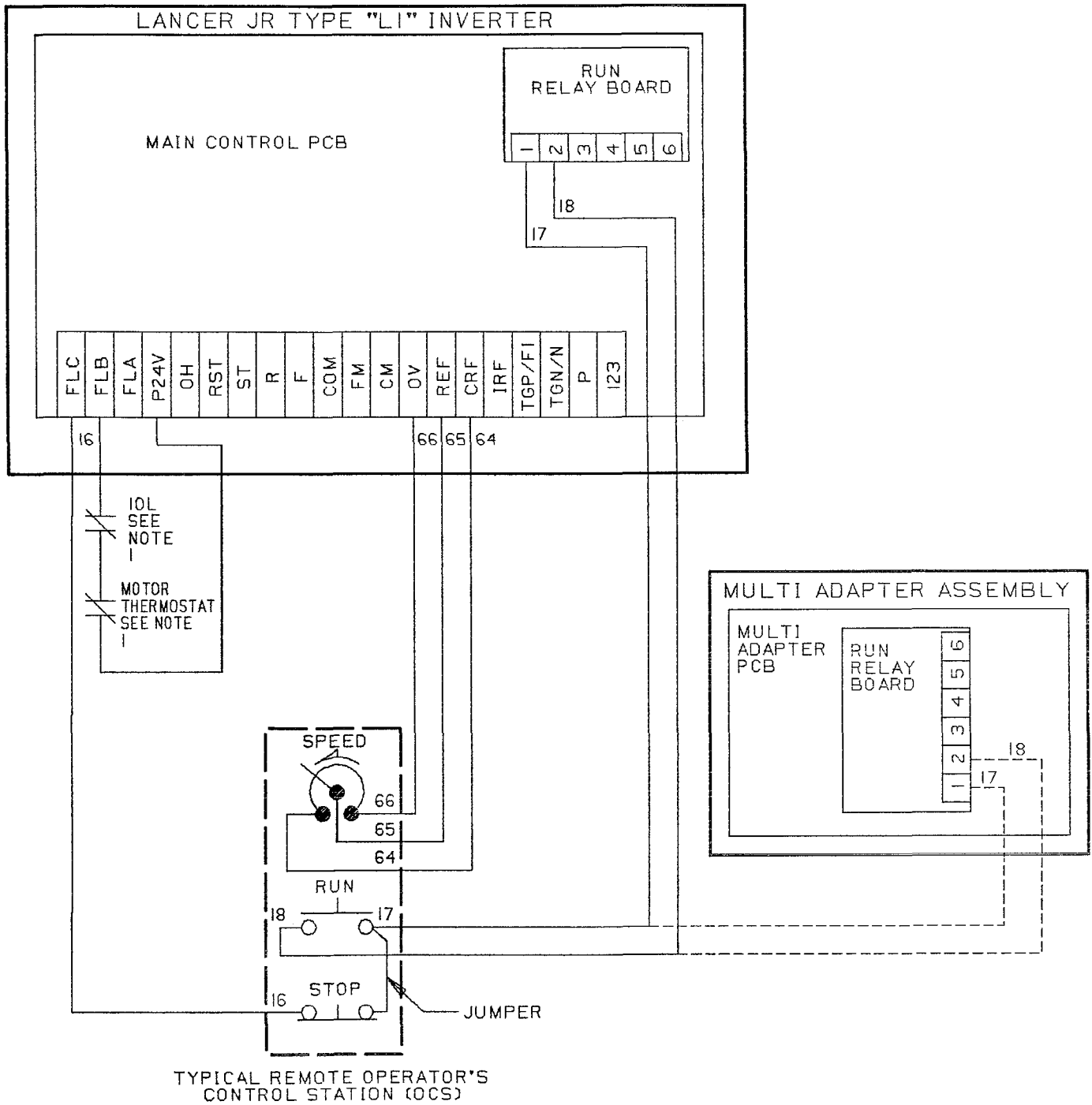
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FIGURE 3.

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NOTE:
 1. CONTINUITY OF THE CIRCUIT BETWEEN TERMINALS (P24V) AND (FLB) MUST BE MAINTAINED FOR PROPER DRIVE OPERATION. ADD APPROPRIATE JUMPERS TO REPLACE IOL OR THE MOTOR THERMOSTAT IF THESE DEVICES ARE NOT USED.

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FIGURE 4.

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