LouisAllis®
A Division of MagneTek, Inc

For use with Lancer JR. Type L1
General Purpose AC Inverter Drives.

4-20MA SIGNAL TRANSMITTER MOD KIT
MODEL 92331 46S02727-0010

Before installing this kit, a TECHNICALLY QUALIFIED INDIVIDUAL who is familiar with this type of equipment and the hazards involved, should READ this ENTIRE INSTRUCTION SHEET.

IMPORTANT

This kit may have been installed by the factory. However, certain steps can only be completed at the installation site. Therefore, review and then perform those steps which complete the installation process.

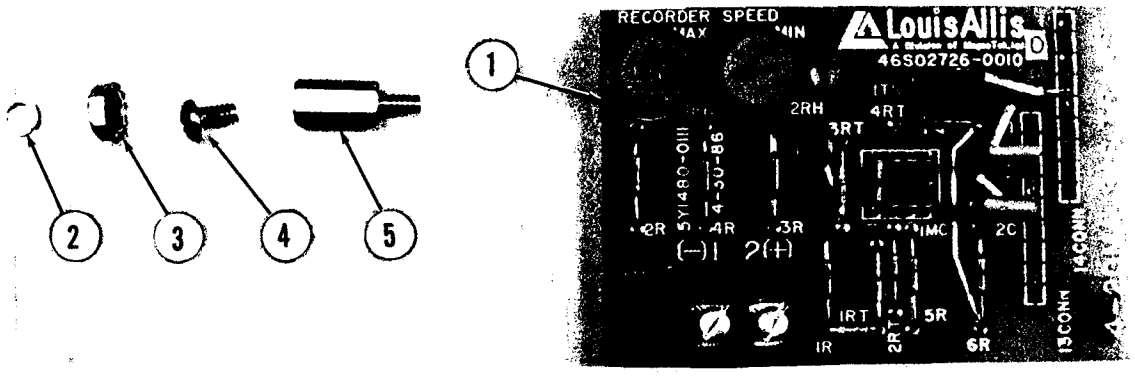


FIGURE 1.

TABLE 1. KIT CONTENTS

ITEM	QTY	DESCRIPTION	PART NO.
1	1	4-20mA Signal Transmitter PCB	46S02726-0010
2	1	#6 Split Lock Washer	05P00300-1003
3	1	6-32 KEPS Nut	05P00300-5008
4	1	6-32 x 0.25 Lg. Screw	05P00306-0503
5	1	Hex Spacer	05P00065-0018

CHANGE RECORD					DWG. NO. 02Y00025-0208 SHEET 1 OF 4 EFF. 5/12/86
1 STD-2550 6/13/86					

DESCRIPTION

This Louis Allis kit includes all the material described in Table 1 and illustrated in Figure 1. It can only be installed in a Lancer JR. Type L1 inverter drive which has an ARNI-889 REV D or above Main Control PCB.

When installed, this kit provides a 4-20mA signal at 1TB on the modification PCB, which is proportional to the inverter output frequency. This signal is adjusted by the MIN and MAX RECORDER SPEED potentiometers.

INSTALLATION

IMPORTANT

a. If this mod kit is to be installed in the inverter, proceed to Step 1.

b. If this mod kit is to be installed in a Multi Adapter mod assembly, FIRST complete installation steps stated in 02Y00025-0204. Then proceed to Step 5.

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. If installed in inverter:

a. See Figure 2. Remove the two Phillips screws which secure the existing Operators Control Station (OCS) plate; retain the screws. Leave the wiring between the OCS plate and the Main Control PCB terminal strip intact. Allow the plate to drop below the PCB.

b. See Figure 2. The Main Control PCB is held in place by (4) hinged locking PCB fasteners. Grasp the top of the 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.

c. 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.

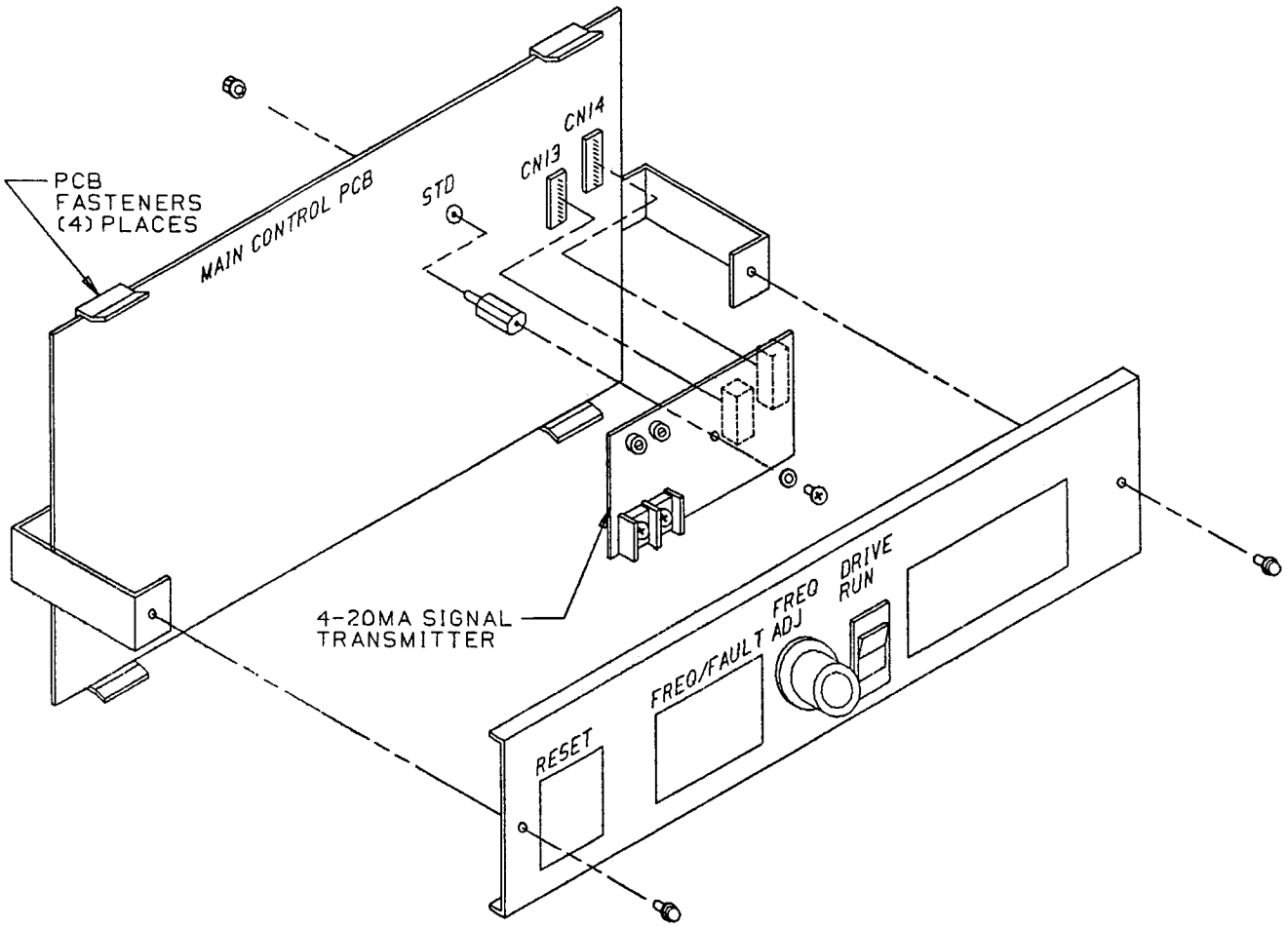
d. See Figure 2. Note that there are (2) 11-pin female connectors (13CONN and 14CONN) on the back side of the 4-20mA Signal Transmitter PCB. Position the board so that these connectors are aligned with male pin connectors CN13 and CN14 on the Main Control PCB. Ensure that all 22 pins engage and then snap the board into place. Use the other set of hardware to secure the board to the metal spacer.

5. 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.



TD.I 2Y25 0208 FIG2

FIGURE 2.

b. Note that there are (2) 11-pin female connectors (13CONN and 14CONN) on the back side of the 4-20mA signal Transmitter PCB. Position the board in the option position so that these connectors are aligned with male pin connectors CN13( ) and CN14( ) on the Multi Adapter PCB. Ensure that all 22 pins engage and then snap into place. Use the hardware to secure the board to the metal spacer.

WIRING CONNECTIONS

6. See Figure 3. Connect signal wires to terminals 1 (-) and 2 (+), route wires from inverter or Multi Adapter and connect to the input of the peripheral device.

ADJUSTMENTS

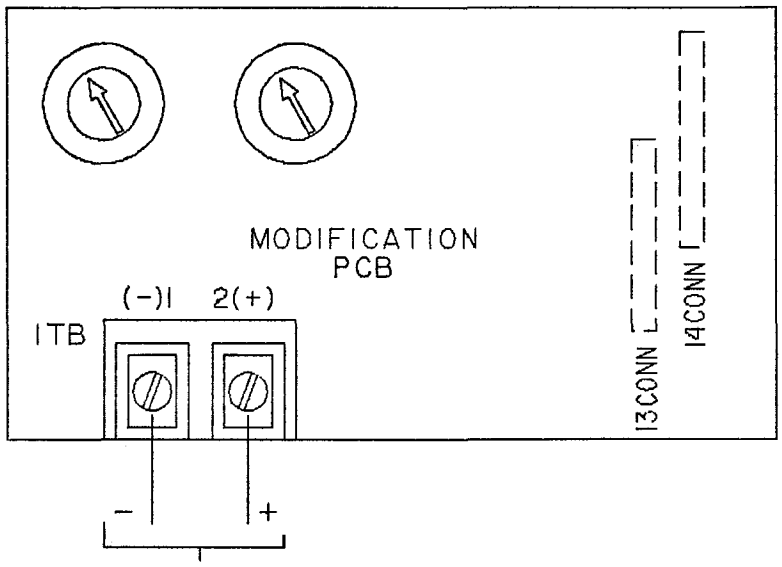
7. There are two adjustments on the 4-20mA Signal Transmitter PCB:

1RH - MAX RECORDER SIGNAL

2RH - MIN RECORDER SIGNAL

8. Set the inverter for zero frequency (speed setter fully CCW) and adjust 2RH to get 4mA output.

9. Set the inverter for max frequency (speed setter fully CW) and adjust 1RH to get 20mA output.



TD 1.2Y25.0208.FIG3

FIGURE 3.

10. Because both adjustments interact, several adjustments may be necessary to achieve desired results.

11. Reposition and secure the OCS plate.

12. Reinstall and secure all enclosure covers.

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

This completes installation of this kit.

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