

For use with Lancer I
Variable Frequency Drives.

FIRST FAULT DETECTOR OPTION PCB
46S02521-0010 SCHEMATIC 45S02521-0010

DESCRIPTION

Certain fault conditions will trigger more than one fault protection circuit within the Lancer I. For instance, a blown fuse may trigger both the blown fuse indicator and undervoltage indicator while the fuse blowing could have resulted from an overcurrent that may also give an IST signal. To further assist servicing in the event of multiple fault indication, the First Fault Detector option identifies by light which fault actually initiated the shutdown. The following are indicated on the First Fault Detector PCB.

- IST
- Overload
- Overvoltage
- Overtemperature
- Overspeed
- High or Low Line
- Blown Fuse
- Ground Fault

The indicator is cleared when the system is reset, either automatically or manually.

INSTALLATION

The First Fault Detector option board mounts to four standoffs located on the top portion of the Inverter Main PCB. (See Figure 7-3 in the Instruction Manual). Connection is made to the Rectifier Main PCB thru ribbon connector 102CONN. No connections are to be made to the Inverter Main PCB. To install the First Fault Detector PCB, first install the standoffs onto the Inverter Main PCB. Locate the First Fault Detector PCB to the standoffs and press in place. Then connect ribbon cable 102CONN between the First Fault Detector PCB and the Rectifier Main PCB.

If the First Fault Detector PCB is being added after the drive has been installed, refer to Section 1.2 in the Instruction Manual for instructions on how to update the 53SL number. A simplified diagram in the form of a pastie has been included with the First Fault Detector PCB. Modify the Signal Flow Diagrams in the Instruction Manual by pasting the pastie in position on Sheet 6.

ADJUSTMENTS

There are no adjustments on the First Fault Detector PCB.

CHANGE RECORD				DWG. NO. 02Y00025-0129
1	STD 2426	12/18/85		SHEET 1 OF 1
2	STD 2582	7/14/86		EFF. 12/18/85

