

FREQUENCY STEP OVER ASSEMBLY

46S02737-0010 Schematic 45S02737-0010

NOTE

This assembly is used in custom designed Lancer I Drives. Installation is completed at the factory.

DESCRIPTION

This assembly consists of components necessary to prevent the motor from operating at certain frequencies. The frequency range over which the motor will not operate (step over) is determined by the setting of four potentiometers. Two potentiometers, 1RH and 2RH set one range, while 3RH and 4RH a second frequency range.

The input to this PCB is the output of the Transducer Interface PCB. The output of the board controls motor speed. Figure 2 shows the output of the board as a function of input.

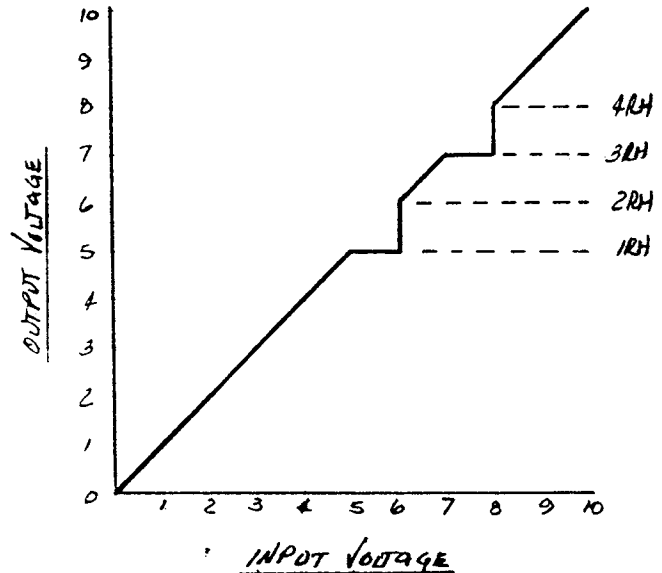


Figure 2. Frequency Step Over Profile

The output of the board is scaled for 10V at 100% speed. Therefore, for this example the motor would not operate from 50 to 60% speed or from 70 to 80% speed.

1RH sets the lower break point of the first speed range and 2RH sets the upper break point. 3RH sets the lower break point of the second speed range and 4RH sets the upper break point.

The markings on the pots (0-100%) approximate the actual percent speed at which the break points are set. The adjustments can be fine tuned by using the Digital Testmeter to observe output frequency.

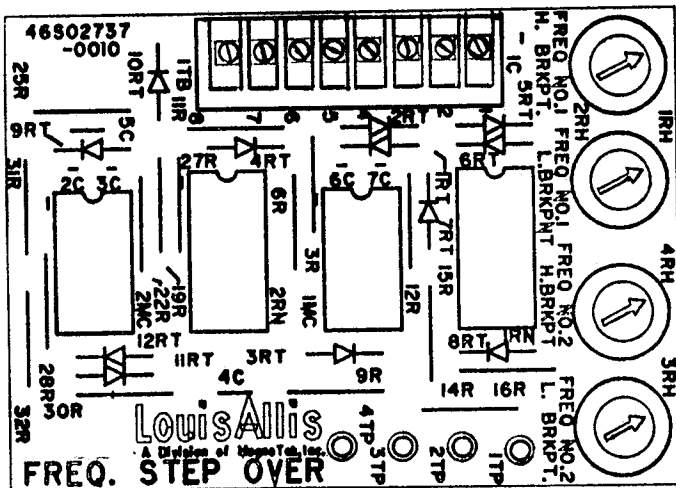


Figure 1.

CHANGE RECORD

DWG. NO. 02Y00025-0273
SHEET 1 OF 1
EFF. 5/9/88 (H)

