TENSION AMP MODIFICATION KIT
KIT P/N 46S02343-0010
PCB 46S02344-0010 SCHEMATIC 45S02343-0010

DESCRIPTION

This modification kit consists of components necessary to allow a controller using the Type "K" Tension Indicator PCB (46S02150-0010)* to operate properly in conjunction with new style Kidder transducers. With this modification, the input from the transducers is amplified before being applied to the tension indicator, resulting in drive operation identical to that with older style transducers.

* See Figure 4 for modification of pre-Type "K" circuits.

INSTALLATION

WARNING

REMOVE ALL INPUT POWER TO THE DRIVE BEFORE INSTALLING MODIFICATION KIT.

See Figure 2. In order for this modification to be installed, three standoff mounting holes must be drilled in the Tension Indicator PCB. Partial views of copper in the proximity of holes are shown to prevent possible damage to copper in the drilling process. Holes may be shifted away from copper slightly, if necessary.

Figure 1.
Figure 2. Drilling Layout - Holes for Standoffs

AC INPUT
VOLTS-115
AMPS-3
PHASE-1
HZ-50/60

COPPER (ON BACK SIDE OF BOARD)

POSITION OF 2PC WHEN INSTALLED

#10 DRILL, 3 PLACES

COPPER (ON BACK SIDE OF BOARD)
After the holes have been drilled, press the three standoffs from the modification kit into the holes. They will snap into place. Then gently press the modification PCB onto the standoffs, until it snaps into position.

**INTERCONNECTION**

Make the wire connections according to Figure 3 and Table 1.

**ADJUSTMENTS**

Adjustment procedures for the tension indicator remain unchanged with this modification. (See instruction sheet 1.2150.)

**NOTE**

The BALANCE pot (2RH) on the modification PCB has been factory set and SHOULD NOT be readjusted.
Figure 3. Wiring Diagram

Table 1. Wiring Table

<table>
<thead>
<tr>
<th>Wire No.</th>
<th>Equipment</th>
<th>From</th>
<th>Terminal</th>
<th>To</th>
<th>Equipment</th>
<th>Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>2PC</td>
<td></td>
<td>5</td>
<td></td>
<td>1PC</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>2PC</td>
<td></td>
<td>(-)*</td>
<td></td>
<td>1PC</td>
<td>9</td>
</tr>
<tr>
<td>10</td>
<td>2PC</td>
<td></td>
<td>(+)*</td>
<td></td>
<td>1PC</td>
<td>10</td>
</tr>
<tr>
<td>11</td>
<td>2PC</td>
<td></td>
<td>6</td>
<td></td>
<td>1PC</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Transducer</td>
<td></td>
<td>(-)</td>
<td></td>
<td>2PC</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>A</td>
<td></td>
<td>(+)</td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Transducer</td>
<td></td>
<td>(-)</td>
<td></td>
<td>2PC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td></td>
<td>(+)</td>
<td></td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

* Factory installed lead.
Figure 4. Pre-Type "K" Tension Amplifier Modification
For Use With Temperature Compensated Cells

DWG. NO. 02Y00025-0055
SHEET 5 OF 5
EFF. 10/20/80 (K)