

Procedure for Conversion of Smart ES Electronics to Digital ES II Electronics

REMOVAL OF THE ES TRANSMITTER BOARD

1. Remove power from the Smart ES unit.
2. Remove the transmitter housing cover.
3. Remove the two screws that secure the PC board and bracket assembly to the housing base. Save these screws.
4. Using snap ring pliers, remove the C-ring on the enclosing tube above the LVDT.
5. Slide the board/bracket assembly up and off of the e-tube.
6. Remove the shield over the transmitter PC board by removing the two screws in the upper corners of the board that hold it in place. Discard the shield and screws.
7. Remove the power wires from terminal TB1 on the board.
8. Remove the LVDT eight pin connector from socket P1 on the board.
9. Clip the plastic tie-wrap that holds the cable to the board.
10. Remove and discard the PC board and bracket assembly.

INSTALLATION OF THE ES II REPLACEMENT BOARD

1. Have on hand an ES II replacement board kit, p/n 89-9113-001.
2. Connect the power wires to the board at terminal TB1. Ensure that the red wire is attached to the (+) terminal and the black wire to the (-) terminal.

3. Plug the LVDT eight pin connector into the new board at socket P1.
4. Slide the board and bracket assembly down on the e-tube until the bracket rests in the housing base.
5. Secure the bracket to the housing base using the two screws that originally held it in place.
6. Replace the C-ring on the enclosing tube above the LVDT.
7. Replace the transmitter housing cover.
8. Apply power and check for output signal.
9. Recalibrate the transmitter as described in Bulletin 48-618.

