

## H88-3 SERIAL INTERFACE TROUBLESHOOTING

### Equipment Needed:

- Oscilloscope (IO-4510 or equivalent)
- H88 Computer

### Procedure:

- Install the circuit board at P505 and P511.
- Install a jumper wire between pin 2 and 3 of the D connector for the channel being tested.
- Load the following program and run it.

```

040 100    076    200
040 102    323    3X3*
040 104    076    200
040 106    323    3X0*
040 110    076    001
040 112    323    3X1*
040 114    076    003
040 116    323    3X3*
040 120    333    3X5*
040 122    346    040
040 124    312    120 040
040 127    076    125
040 131    323    3X0*
040 133    333    3X5*
040 135    346    001
040 137    312    133 040
040 142    333    3X0*
040 144    376    125
040 146    312    120 040
040 151    166

```

\*X = 4 for LP channel,  
 X = 3 for DTE channel,  
 X = 2 for DCE channel

If the program halts the ACE is defective.

This program sends 125 octal out of the ACE and reads it back. By checking the signals at pins 10 and 11 of the ACE with the oscilloscope, the TTL to EIA converter and the ACE can be checked.