
Model DR 4300 Circular Chart Recorder Replacement Instruction

Printed Circuit Assembly Kit (51404453-5XX)

Document Number Form: 43-DR-33-72
 Effective: 4/98
 Supersedes: None

Kit Contents This kit contains one of the following replacement Printed Circuit Assembly (PCA) Kits:

- *Part Number 51404453-501 which includes:*
 - PCA, Record only
 - #6 x 3/8 Plastite Screws (4)
 - Product Manual 44-01-25-14
 - Ferrite Bead Assembly (Part Number 51404702-001)
 - Washer
- *Part Number 51404453-502 which includes:*
 - PCA, Record and Control with Electromechanical Relays
 - #6 x 3/8 Plastite Screws (4)
 - Solid State Relays (Part Number 30756725-001) (2)
 - Open Collector Output (Part Number 30756679-001) (2)
 - Product Manual 44-01-25-14
 - Ferrite Bead Assembly (Part Number 51404702-001)
 - Washer
- *Part Number 51404453-505 which includes:*
 - PCA for FM-approved Limit Controller
 - #6 x 3/8 Plastite Screws (4)
 - Product Manual 44-01-25-14
 - Ferrite Bead Assembly (Part Number 51404702-001)
 - Washer

Summary Enclosed is a new printed circuit assembly for your DR4300 recorder. Use the following procedure to install the PCA.

WARNING Never access components inside the case with power applied.

Continued next page

Component Location Refer to Figure 1 for the location of PCA connectors and switches, and Table 1 for the installation procedure.

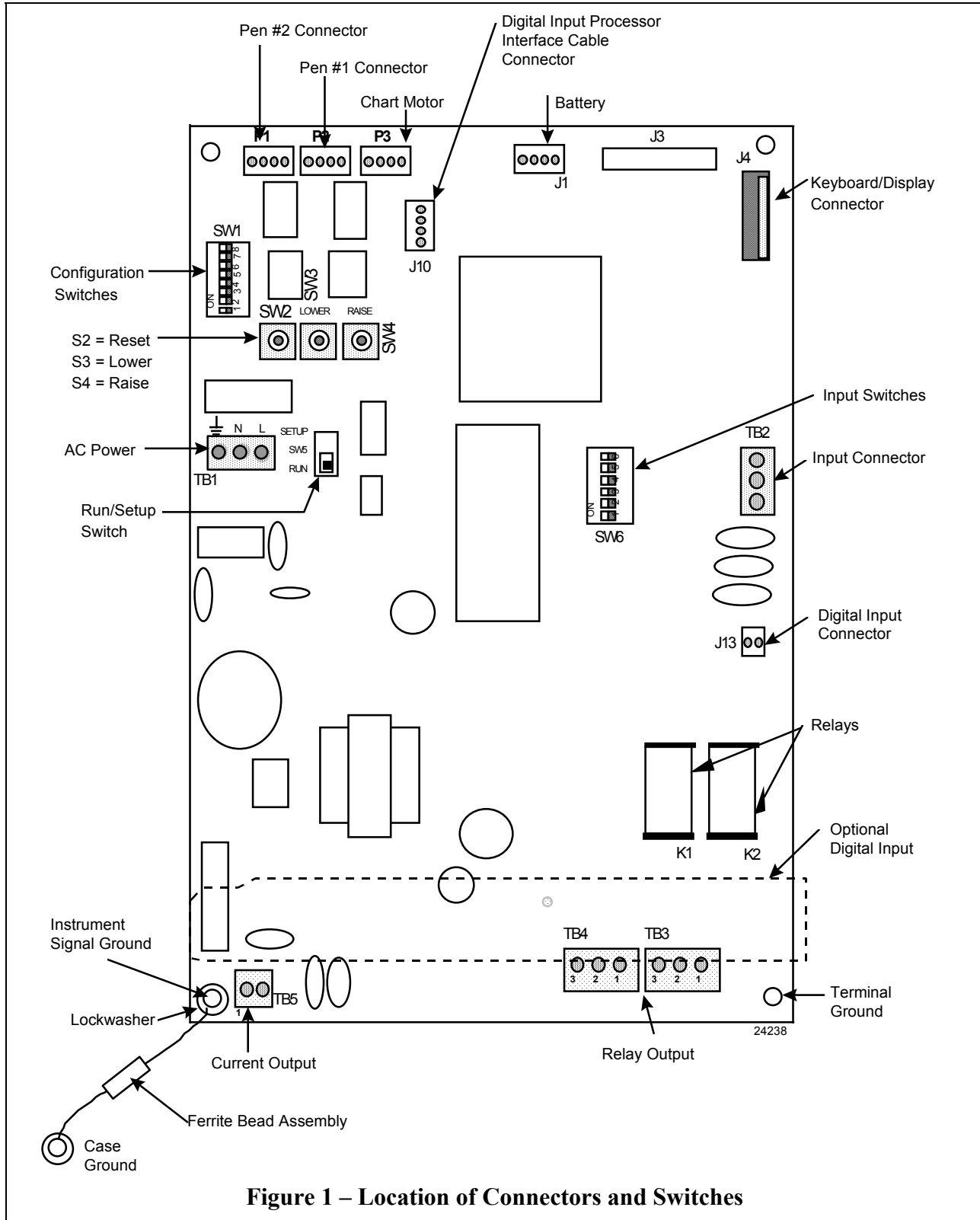


Figure 1 – Location of Connectors and Switches

Installation Procedure Follow the procedure in Table 1 to install the new printed circuit assembly in your recorder.

Table 1 – Printed Circuit Assembly Installation

Step	Action
1	Power down the recorder. Open the chart door and swing the chart plate out. This permits access to the main printed circuit assembly (PCA).
2	<p>Tag and disconnect all the cable plugs and removable terminal blocks from the connectors on the PCA.</p> <p>Note the position of all dip switches for configuration and input.</p> <p>If the optional Digital I/O board is installed, disconnect and remove the board. (To remove the digital input board, use needle-nose pliers to squeeze together the split top of the stand-off on the left and slide the PCA off the stand-off. Repeat for center and right stand-offs.)</p> <p>Disconnect transmitter power wiring from TB1.</p>
3	Remove the screws from the four corners of the PCA and lift it from the case.
4	Remove K1 and K2 relays and install either the Solid State Relays or Open Collector Output if they were on the old PCA.
5	<p>Set switches on the new PCA to match those on the PCA being removed.</p> <p>If the PCA you are installing is for the FM-approved Limit Controller, be sure to remove resistor R126.</p>
6	Position the new PCA in the case and secure with the screws.
7	Replace the cable plugs and terminal blocks disconnected in Step 2, re-install the Digital I/O board (if applicable), and reconnect transmitter power wiring.
8	If the recorder has a display, reconfigure the recorder using the procedure in Section 4 of the DR4300 Product Manual, 44-01-25-14.