

DR 4500A Circular Chart Recorder Kit Instruction

Replacement Prom and Upgrade Kit (30757205-Tab)

Form: 44-45-33-50A
Effective: 8/95

Kit Contents

You have received one of the kits listed below. Make sure you have received the correct Kit for your recorder.

Kit Part Number	Type	Model Description
757205-002	Upgrade Kit	Truline Totalizer - Version 10.XX
757205-003	Replacement PROM	Classic Model - Version 01.XX
757205-004	Replacement PROM	Truline Relay Expansion Model - Version 7.XX
757205-005	Replacement PROM	Truline Flow Model - Version 08.XX
757205-006	Replacement PROM	Truline HTST Model - Version 9.XX
757205-007	Replacement PROM	Standard Truline Version 10.XX
757205-008	Upgrade Kit	Classic Totalizer Version 01.XX
757205-009	Upgrade Kit	Truline Totalizer and Math - Version 10.XX

Summary

This kit contains a new PROM for your DR4500A recorder. This PROM will upgrade your recorder to the latest software version. Note that the software version is listed on a label on top of the PROM.

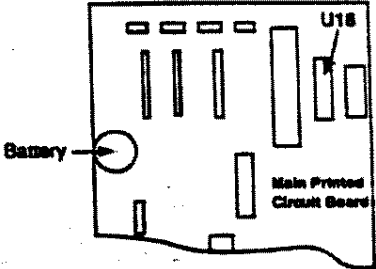
Use the procedure listed in Table 1 to install the PROM in your recorder. This procedure assumes that you are familiar with the DR4500A recorder, so the steps given here are abbreviated. We suggest that you have a copy of the recorder's product manual on hand for reference.

ATTENTION After installing the new PROM, check the position of the S1 Lockout Switch on the Main printed circuit board to allow configuration of the new software. Refer to page 3 in this instruction for switch positions.

WARNING When handling and changing the PROM, be sure to follow standard practices for avoiding electrostatic discharge damage to the PROM.

Open the recorder door and follow the procedure in Table 1 to upgrade your recorder's software version.

Table 1 - Prom Upgrade Procedure

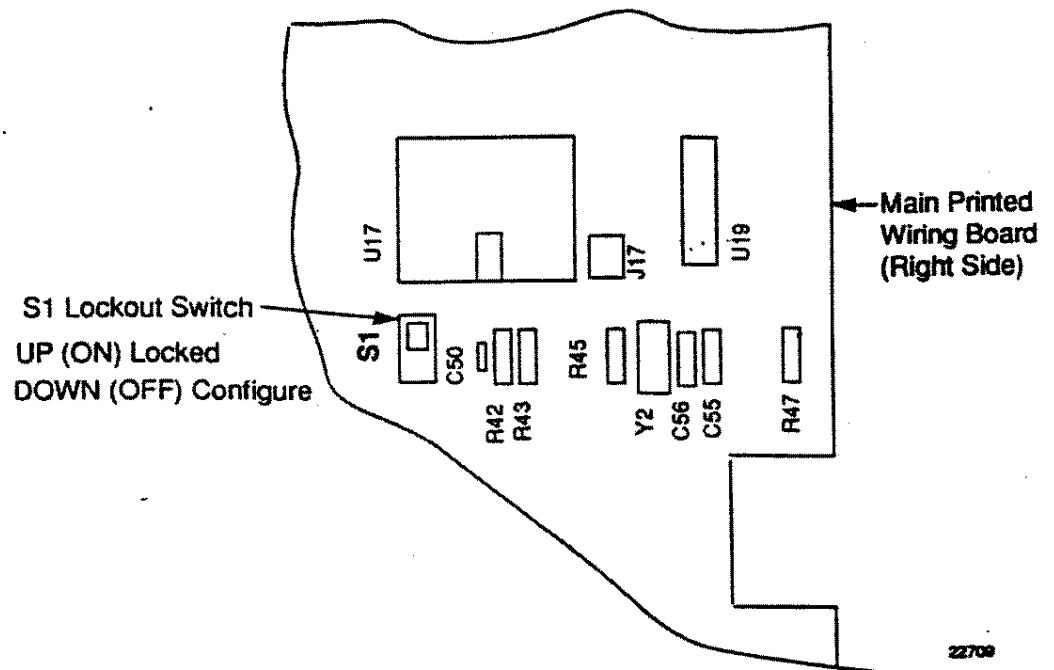
Step	Press	Result or Action
1	<div style="border: 1px solid black; padding: 2px; display: inline-block; text-align: center;">SET UP</div> until you see:	Upper Display <div style="border: 1px solid black; padding: 2px; display: inline-block; text-align: center;">SET UP</div> Lower Display <div style="border: 1px solid black; padding: 2px; display: inline-block; text-align: center;">LOCKOUT</div>
2	<div style="border: 1px solid black; padding: 2px; display: inline-block; text-align: center;">FUNC</div> until you see:	Upper Display <div style="border: 1px solid black; padding: 2px; display: inline-block; text-align: center;">CALIB</div> ← Use ▲ or ▼ to select CALIB Lower Display <div style="border: 1px solid black; padding: 2px; display: inline-block; text-align: center;">LOCKOUT</div>
<div style="border: 1px solid black; padding: 2px; display: inline-block;">WARNING</div> Never access components inside the case with power applied.		
3		Remove power. Loosen captive screw in the chart plate and swing the chart plate out.
4		Locate PROM U18 near the upper right hand corner on the Main printed circuit board. <div style="text-align: center; margin-top: 10px;">  <p>The diagram shows a rectangular circuit board. On the left side, there is a circular component labeled 'Battery'. On the right side, near the top corner, there is a rectangular component labeled 'U18'. The board is labeled 'Main Printed Circuit Board' at the bottom right.</p> </div>
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CAUTION</div> We recommend that you use a ground strap or ionizer when handling the plug-in PROM. Electrostatic discharge can cause PROM failure.		
5		Remove the old PROM with the anti-static screwdriver supplied with the PROM kit.
6		Check for bent pins then plug the new PROM into the IC socket. Be sure that the notch and pin 1 of PROM align with the notch and pin 1 of the socket. <div style="border: 1px solid black; padding: 2px; margin-top: 5px; display: inline-block;">ATTENTION</div> Notch goes down toward the bottom of the case. DO NOT use paper tag to determine the mounting position. Check that all the pins are inserted into the socket and that none are bent.
7		<div style="border: 1px solid black; padding: 2px; display: inline-block;">ATTENTION</div> for Totalizer Kit 30757205-008 Install the battery supplied with this kit into the position shown in the figure in step 4. Lift the retainer and slide the battery into place.
8		Close the chart plate, apply the power. The first display to appear within 2 seconds is "PASSED RAM TEST". If this does not occur, remove power immediately and call Customer Assistance Center. 1-800-423-9883

Lockout switch configuration

The configuration may be locked out. The S1 switch is located next to the microprocessor U17 on the main printed circuit board and move it to the DOWN (OFF) position.

Restrictions based on lockout switch position

The figure below shows the location of the S1 lockout switch on the main printed circuit board.



When the lockout switch is OFF (Down—Configure):

- You can view and change all applicable operating parameters as described in the product manual (*Section 4 – Configuration Parameter Definitions*)

When the lockout switch is ON (Up—Locked):

- Most parameters for the recorder are locked and the parameters may not be changed except for Tuning 1 and Tuning 2 parameters and adjustments to time/date/day/year.