

Models DR4200, DR4300, and DR4500 Recorders Replacement Instruction

Chart Motor Kit (30756113-501)

Document Number Form: 44-45-33-37B
Effective: 12/98
Supersedes: 3/98

Kit Contents

This Chart Motor Replacement Kit contains the following parts:

Description	Quantity	Used On
• Chart Motor	1	All models
• Chart Hub Kit	1	All models
• Tie Wraps	4	All models
• Screws, Plastite #4 x .313	2	Newer models without brass inserts
• Screw/Lockwasher #4 x .25	2	Older models with brass inserts

Summary

Enclosed is a new chart motor assembly with parts required to replace the chart motor in a DR4200, DR4300, or DR4500 recorder. Use the following procedures, as appropriate, to replace the existing chart motor assembly.

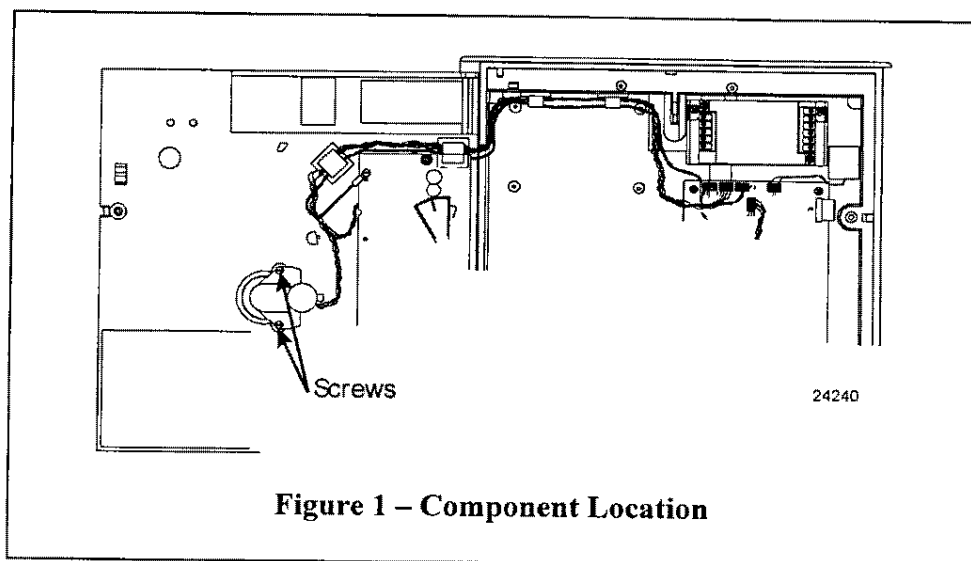
WARNING Never access components inside the case, or remove or install any connectors, with power applied.

Continued next page

Kit Instruction, continued

**Component Location
for DR4200/DR4300**

Refer to Figure 1 for the component locations and Table 1 for the installation procedure.



**DR4200/DR4300
Procedure**

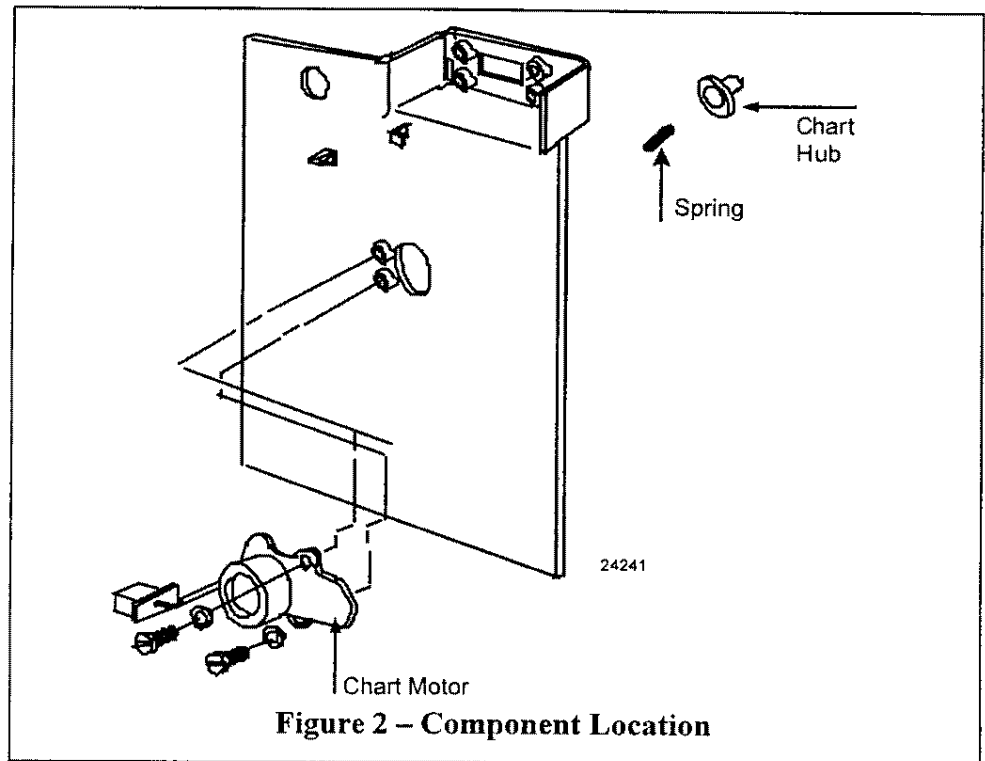
Follow the procedure in Table 1 to replace the existing chart motor assembly in your recorder.

**Table 1 –
Chart Motor Assembly Replacement for DR4200/DR4300 Recorders**

Step	Action
1	Open the chart door and swing the chart plate out.
2	Remove chart hub (front of chart plate) and chart motor (rear of chart plate) by removing screws. Cut tie wraps securing leads to chart plate (if applicable). Discard motor and hub; save screws.
3	Use new tie wraps to re-bundle new motor leads.
4	Refer to Chart Hub instruction sheet (steps 3-6) for remaining steps. Form# 44-45-33-60

**Component Location
for DR4500**

Refer to Figure 2 for the component locations and Table 2 for the installation procedure.

**DR4500 Procedure**

Follow the procedure in Table 2 to replace the existing chart motor assembly in your recorder.

Table 2 – Chart Motor Assembly Replacement for DR4500 Recorder

Step	Action
1	Open the chart door and swing the chart plate out.
2	Remove chart hub and motor assembly by removing screws and cutting tie wraps. Discard hub and motor, but save screws.
3	Use new tie wraps to re-secure wires.
4	Refer to Chart Hub replacement instructions (steps 3-6) for remaining steps. Form# 44-45-33-60

Models DR4200, DR4300, and DR4500 Recorders Replacement Instruction Chart Hub Kit (30756150-501)

Document Number Form: 44-45-33-60
Effective: 12/98
Supersedes: none

Kit Contents

This Chart Hub Replacement Kit contains the following parts:

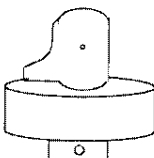

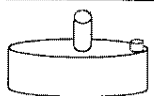
Description	Quantity
• Allen wrench 1, 5 mm	1
• Chart hub ass'y, tamper resist.	1
• Chart hub ass'y, large diam.	2
• Compression spring	2
• Chart hub ass'y, small diam.	1

Summary

Enclosed is a new chart hub kit with parts required to replace the chart hub in a DR4200, DR4300, or DR4500 recorder. Use the following procedures, as appropriate, to replace the existing chart hub assembly.

WARNING Never access components inside the case, or remove or install any connectors, with power applied.

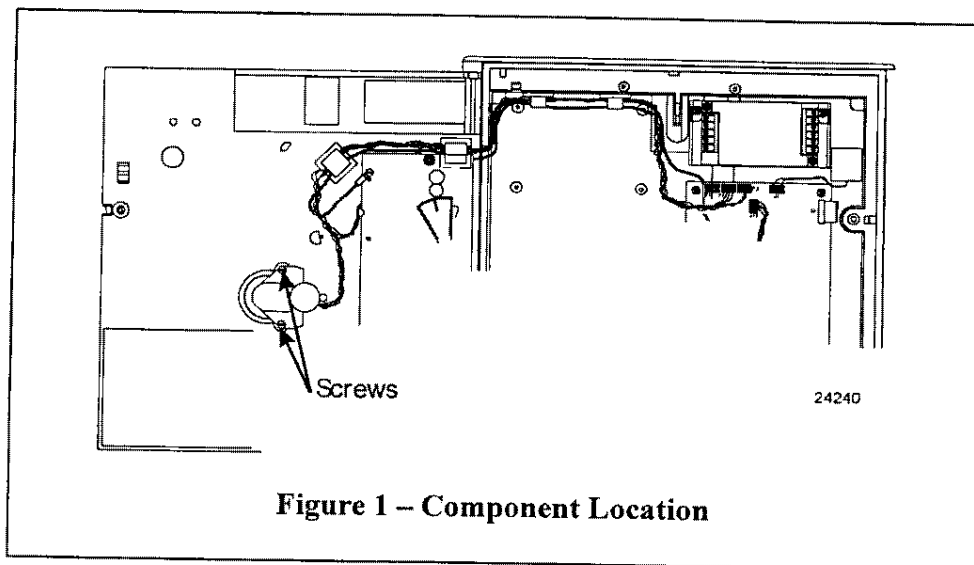
Chart hub types

Chart Hub Type	Description	How to intall
	Hub used with ink pens and preprinted charts when approval bodies or process inspectors require tamper proof operation.	Slide hub down to bottom of motor shaft and tighten set screw.
	Standard hub used on all DR4500/DR4300/DR4200 recorders.	Push hub onto motor shaft.
	Hub used with ink pens and preprinted charts that have a small center hole.	Push hub onto motor shaft.

Kit Instruction, continued

**Component Location
for DR4200/DR4300**

Refer to Figure 1 for the component locations and Table 1 for the installation procedure.



**DR4200/DR4300
Procedure**

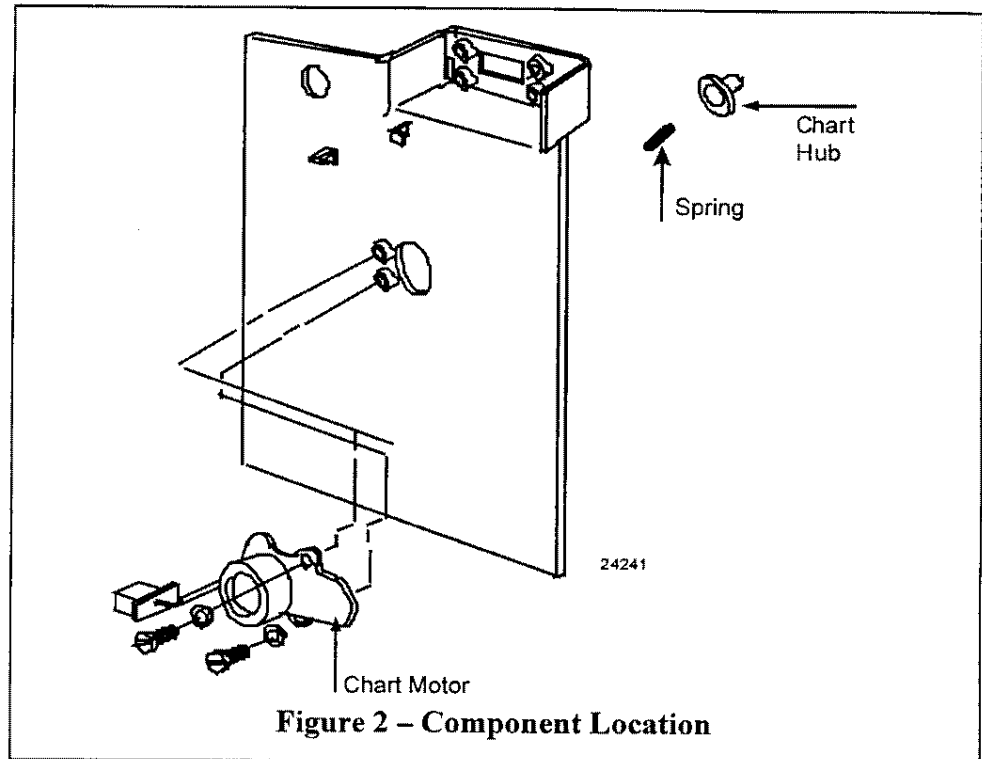
Follow the procedure in Table 1 to replace the existing chart hub assembly in your recorder.

**Table 1 -
Chart Hub Assembly Replacement for DR4200/DR4300 Recorders**

Step	Action
1	Open the chart door and swing the chart plate out.
2	Remove chart hub (front of chart plate) and chart motor (rear of chart plate) by removing screws. Save screws. Pull hub off the motor.
3	Select the chart hub from the kit that matches the one you removed.
4	Attach hub to motor. Refer to chart hub types on page 1.
5	Hold motor in place and adjust chart hub flush with platen.
6	Re-install motor with screws.

**Component Location
for DR4500**

Refer to Figure 2 for the component locations and Table 2 for the installation procedure.

**DR4500 Procedure**

Follow the procedure in Table 2 to replace the existing chart hub in your recorder.

Table 2 – Chart Hub Assembly Replacement for DR4500 Recorder

Step	Action
1	Open the chart door and swing the chart plate out.
2	Remove chart hub and motor assembly by removing screws. Save screws. Pull hub off the motor.
3	Select the appropriate chart hub from the kit.
4	<p><i>For Classic models (DR45A1, DR45A2):</i> Assemble chart hub to chart motor—no spring is used. See Chart hub types on page 1.</p> <p><i>For Truline models (DR45AT, DR45AR, DR45AW, DR45AH, DR45AP, DR45AS):</i> Slip new spring over chart motor shaft before pushing on the chart hub assembly. See Chart hub types on page 1.</p>
5	Hold motor in place and adjust chart hub flush with platen.
6	Re-install motor with screws.