

## HercuLine 2001 Actuator 10K Ohm Potentiometer Kit Replacement Instructions 51452342-501

### Document Number

Form: 62-86-33-40B

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### Overview

These instructions apply to the following kit: **51452342-501 10K ohm potentiometer replacement** and its application to the HercuLine 2000 Series Actuators. This kit allows you to replace a 10K ohm potentiometer used for output shaft position sensing in the HercuLine 2000 series actuators.

### Summary

This kit contains a new potentiometer and associated parts for your HercuLine 2001 Actuator.

### Tools Needed

To perform the installation procedure, you will need the following tools:

- Medium Flat-blade screwdriver
- Medium Phillips screwdriver
- Small needle-nosed pliers

### Procedure

#### **WARNING**

Disconnect power before accessing components inside the actuator. Failure to do so may result in death or serious injury.


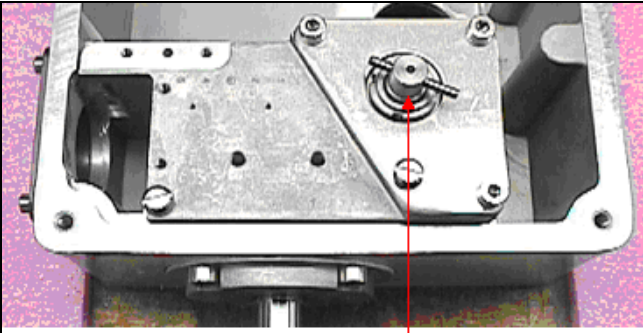
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#### **ATTENTION**

When working with Printed Wiring Assemblies (PWAs) always protect against electrostatic discharge by wearing a grounded wrist strap. Failure to do so may result in equipment damage.

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**Table 1 10K Ohm Installation Procedure**

Step	Action
1	<b>Disconnect power from the actuator.</b>
2	<p><b>Move the actuator output shaft to 50%.</b></p> <p>If the actuator has a hand wheel, rotate the hand wheel until the pointer is at 50% on the scale.</p> <p>If the actuator does not have a hand wheel, remove the top cover and rotate the shaft at the bearing retainer plate until the pointer is at 50% on the scale.</p> <div data-bbox="300 464 786 903" style="text-align: center;"> <p>Move pointer to 50%</p>  </div> <div data-bbox="300 951 938 1339" style="text-align: center;">  <p>Shaft to rotate</p> </div>
3	<b>Remove top cover.</b>
4	<p><b>Potentiometer Assembly</b></p> <p>Slide the end of the potentiometer shaft into the end of the cam shaft.</p> <p>Secure the bracket to the casting using 2 Sems screws.</p> <p>Tighten the bracket hardware. <b>DO NOT TIGHTEN SET SCREW.</b></p>
5	<p><b>Connect to backplane.</b></p> <p>Plug potentiometer cable into receptacle on backplane.</p>
6	<p><b>Adjust the potentiometer.</b></p> <p>See document 62-86-25-10 Herculine 2000 Series Actuator Installation, Operation and Maintenance Manual. Refer to Set Up and Calibration Procedures section.</p>
7	<b>Replace the gasket.</b>
8	<b>Reattach the top cover.</b>

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## Warranty/Remedy

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While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

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## Sales and Service

For application assistance, current specifications, ordering, pricing, and name of the nearest Authorized Distributor, contact one of the offices below.

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### For more information

To learn more about Actuators,  
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