HercuLine 2001 Actuator Upgrade to Non Contact Position Sensor Replacement Instructions 50018180- 501

Document Number

Form: 62-86-33-46 Effective: 4/06 Supersedes: None

Overview

These instructions apply to the following kit: **HercuLine 2001 upgrade to non-contact position sensor kit** and its application to the HercuLine 2001 Actuators. This kit allows you to replace the existing pot assembly with a non contact position sensor.

Summary

This kit contains a Non Contact Position Sensor 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
- Allen key screw driver set

Procedure



WARNING

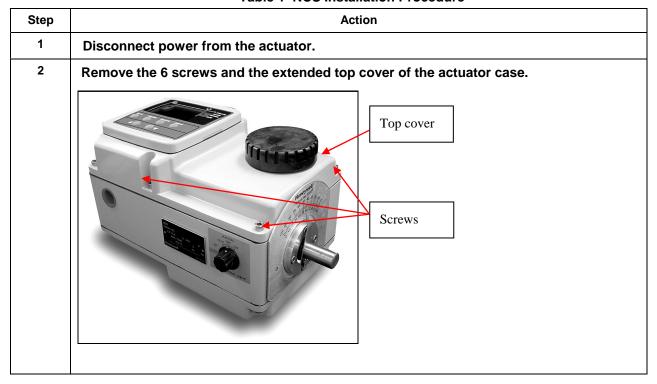
Disconnect power before accessing components inside the actuator. Failure to do so may result in death or serious injury.

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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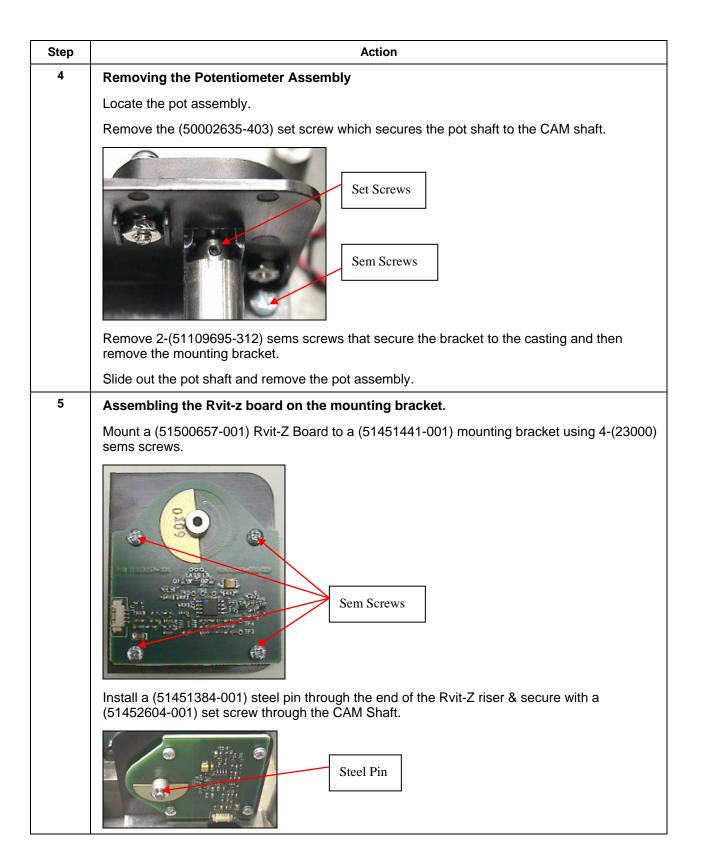
Table 1 NCS Installation Procedure



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Action Step 3 Move the actuator output shaft to 50%. If the actuator has a hand wheel, rotate the hand wheel until the pointer is at 50% on the scale. 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. Move pointer to 50% Shaft to rotate

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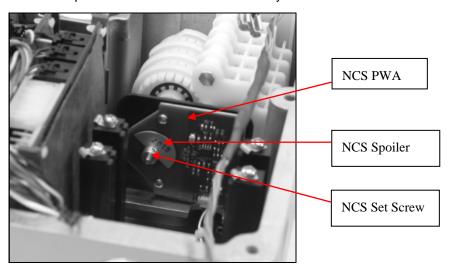


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Step Action

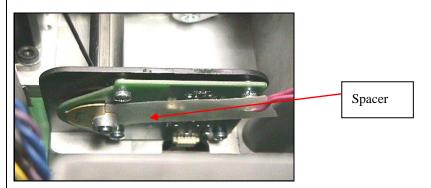
6 Mounting the Rvit-Z assembly.

Locate the place to mount the Rvit-z assembly.

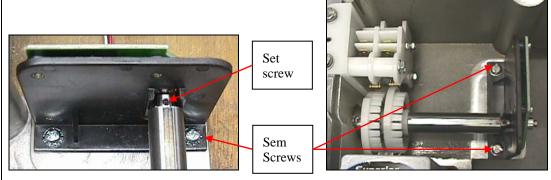


Slide the Rvit-Z assembly over the end of the CAM Shaft.

Secure the bracket to the casting using 2-(51109695-312) sem screws.



Use the plastic Rvit-Z Spacers to set an equal gap between the Risers on each side of the Rvit-Z board.



Install a (50002635-403) set screw. Hold the risers and secure the assembly through the CAM Shaft with the set screw.

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Step	Action
	Rvit-z cable Install (51500553-005) Rvit-Z cable to the board which completes the Rvit-z assembly.
7	NCS Position Sensor Calibration
	See document 62-86-25-10 HercuLine 2000 Series Actuator Installation, Operation and Maintenance Manual. Refer to Table 28 in the Setup and Calibration Procedures section for the NCS position sensor calibration.
8	Replace the gasket.
9	Reattach the top cover and secure with the screws.

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Warranty/Remedy

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Industrial Measurement and Control

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