

MERITOR®

Service Parts Instructions

Installing Pneumatic Pin-Pull onto the Meritor RideSentry™ Sliding Tandem Trailer Air Suspension System Equipped with the EZ-Pull II™ Pin System

Kit 11330

Hazard Alert Messages

Read and observe all Warning and Caution hazard alert messages in this publication. They provide information that can help prevent serious personal injury, damage to components, or both.

How to Obtain Kits

Call ArvinMeritor's Commercial Vehicle Aftermarket at 888-725-9355.

Kit 11330

Part	Quantity
Valve Mounting Plate — 2205W1193	1
Actuator/Bearing Lever — 2247R1578	2
Chamber Bracket — 3155H1490	1
Service Chamber w/Clevis, Clevis Pin and Cotter Pin — A1-3276G1099	1
Control Valve — A-7806A1015	1
1/4-20 x 2-1/4 HHCS — S-2418-2	2
1/4 Flat Washer — WA-34	2
1/4-20 Locknut — NL24-1	2
TP-0696 — Warning Label	1
TP-0695 — Warning Label	1
TP-0748 — Installation Procedure	1

Installation

⚠ WARNING

To prevent serious eye injury, always wear safe eye protection when you perform vehicle maintenance or service.

Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving. Support the vehicle with safety stands. Do not work under a vehicle supported only by jacks. Jacks can slip and fall over. Serious personal injury and damage to components can result.

Wear safe clothing and eye protection when you use welding equipment. Welding equipment can burn you and cause serious personal injury. Follow the operating instructions and safety procedures recommended by the welding equipment manufacturer.

Welding procedures must adhere to Meritor standards. Welding at locations other than those authorized by Meritor will void the warranty and can reduce frame fatigue life. Serious personal injury and damage to components can result.

1. Wear safe eye protection.
2. Park the trailer on a level surface. Block the wheels to prevent the trailer from moving.
3. Support the trailer with safety stands.
4. Remove the return spring. Cut the pin-pull torque tube and remove the pin-pull handle from the slider frame. Figure 1.

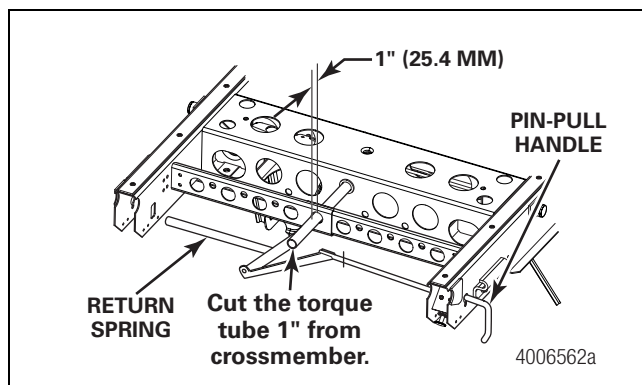


Figure 1

5. Locate the position on the slider frame for placement of the chamber bracket. Figure 2. Weld the chamber bracket to the frame. Figure 3.

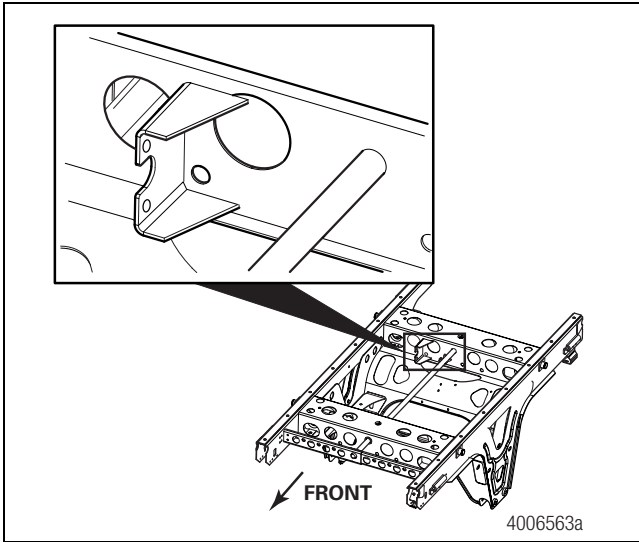


Figure 2

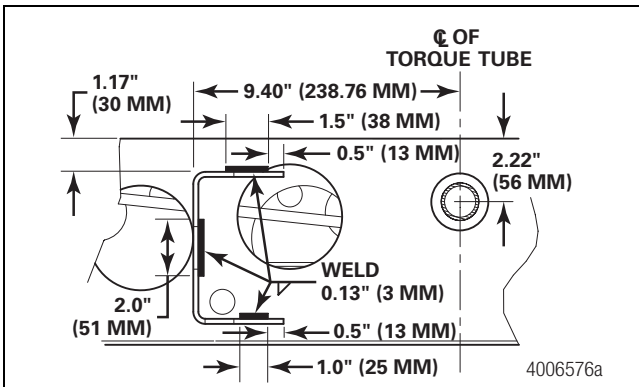


Figure 3

6. Locate and weld the valve mounting plate inside the roadside rail at the slider front. Figure 4. Use two mounting bolts to attach the pneumatic pin-pull valve to the valve plate. Figure 5.

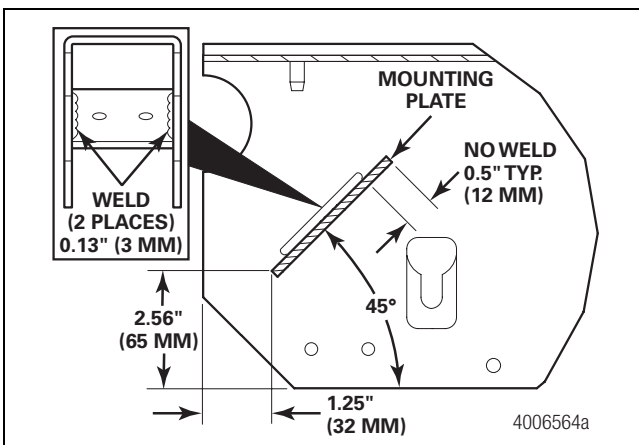


Figure 4

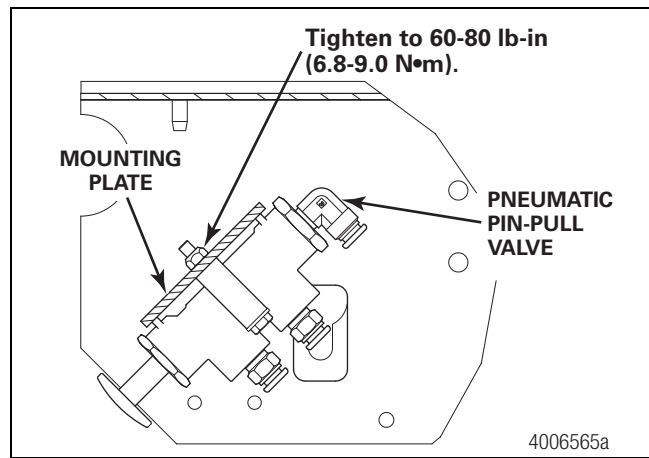


Figure 5

NOTE: Two interchangeable levers are included in Kit 11330. Use one as an actuator lever and the other to increase the bearing surface for the torque tube.

7. Position the bearing lever. Figure 6. Weld the lever to the cross member to increase bearing surface for the torque tube. Figure 7.

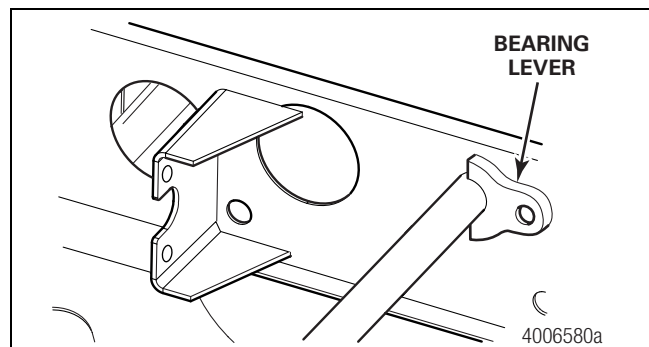


Figure 6

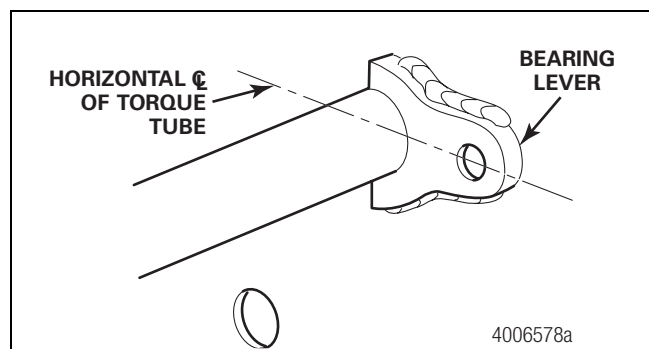


Figure 7

8. Check the service chamber dimension. Figure 8.

- If the dimension from the bottom of the service chamber to the centerline of the chamber clevis is not within 8.50-inches \pm 0.10-inches (216 mm \pm 2.54 mm); Adjust the chamber push rod clevis, as necessary.

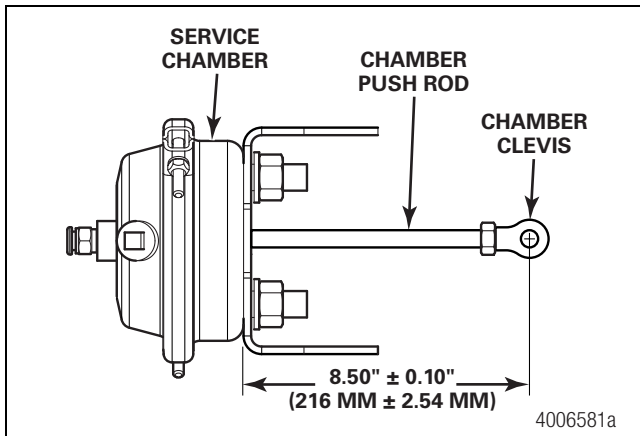


Figure 8

9. With the pull handle removed and lock pins fully extended, install the service chamber to the chamber bracket, using the fasteners supplied with the service chamber. Figure 9.

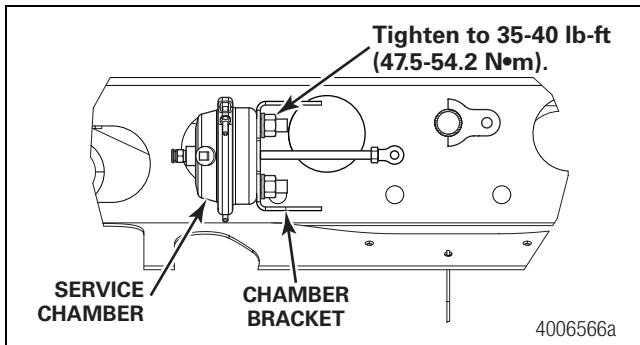


Figure 9

10. Attach the actuator lever to the service chamber clevis. Install the clevis pin and the cotter pin. Bend one leg of the cotter pin. Figure 10.

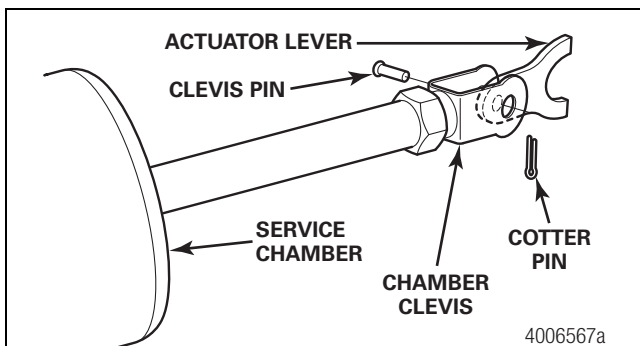


Figure 10

11. With the service chamber fully retracted, position the actuator lever over the torque tube, allowing the service chamber to locate the actuator lever. Figure 11.

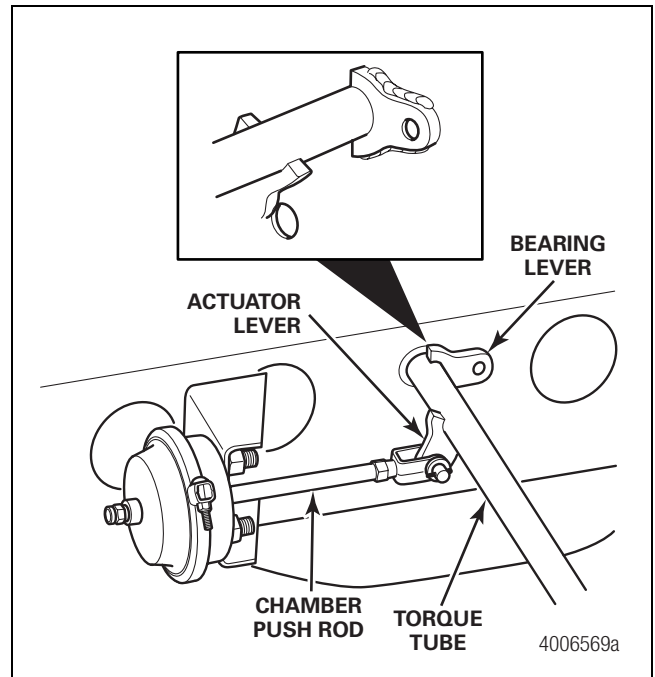


Figure 11

12. Ensure that the chamber push rod is parallel with the top of the slider cross member, and the actuator lever is square to the torque tube. Tack weld both sides of the actuator lever to the torque tube.
13. Activate the service chamber, using 100 PSI shop air, to verify that all four pins fully retract. The service chamber clevis pin must travel an equal distance on both sides of the torque tube centerline. Refer to dimension A in Figure 12.

- **If all four pins do not fully retract, and the service chamber clevis pin does not travel an equal distance on both sides of the torque tube centerline:** Adjust the clevis position relative to the service chamber push rod. Repeat Step 13 until the system functions correctly.

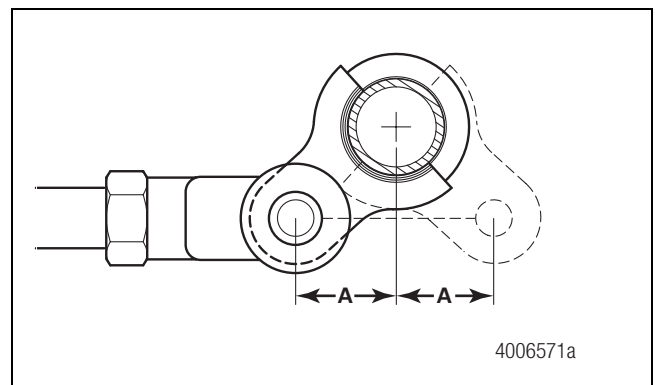


Figure 12

14. Weld both sides of the actuator lever to the torque tube. Figure 13.

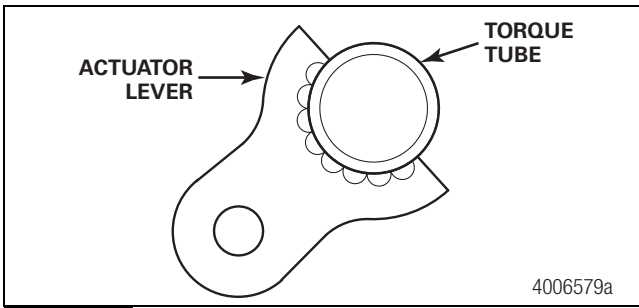


Figure 13

15. Install the air lines. Figure 14.

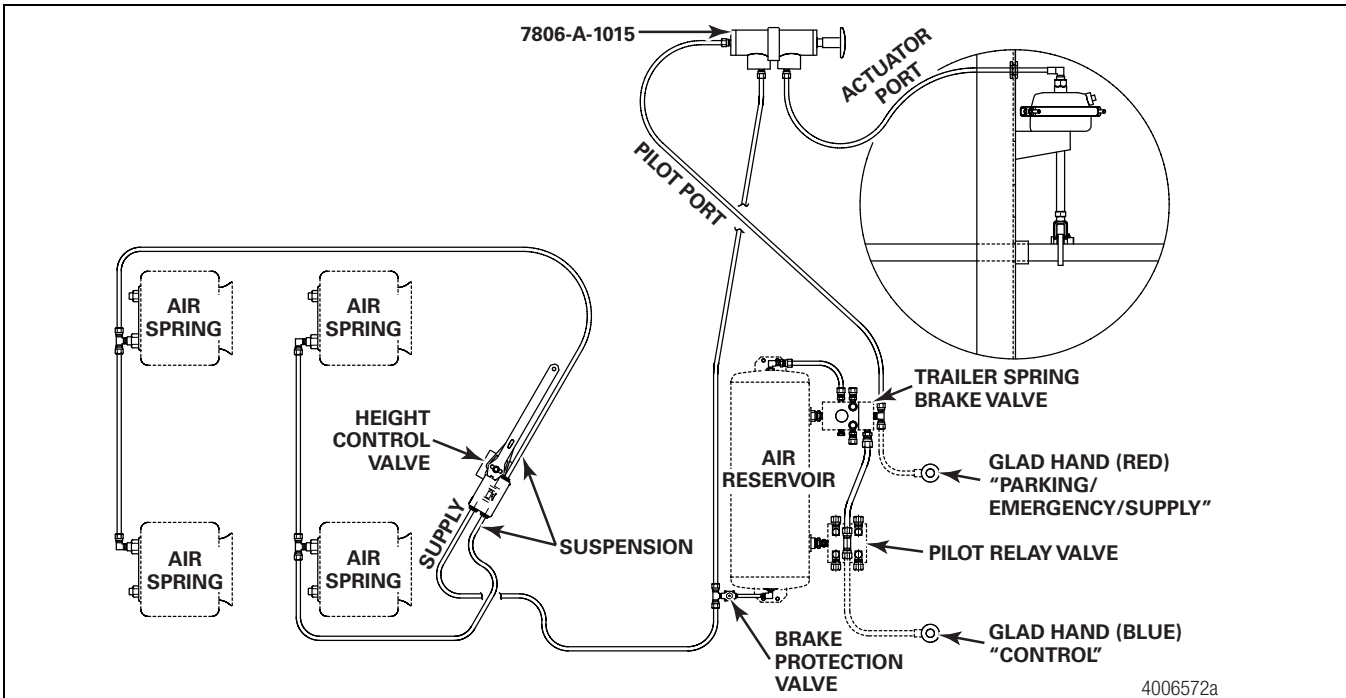


Figure 14

16. Apply the following warning labels that are included in Kit 11330 onto the sliding suspension and the trailer: TP-0695, Push-Button Actuator; and TP-0696, Repositioning Procedure for a Sliding Suspension with Push-Button Actuation. Refer to Figure 15 for correct placement of these labels.

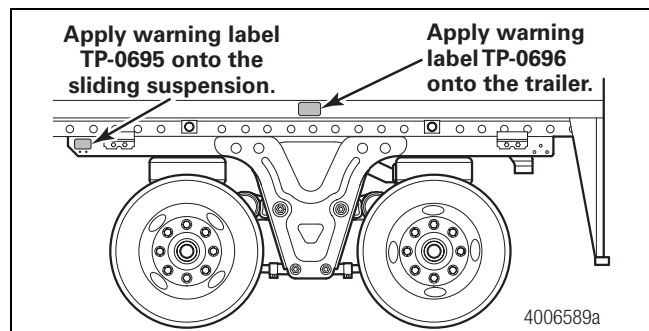


Figure 15

17. Actuate the control valve to ensure the system operates correctly. Make sure the slider pins fully retract and engage into the trailer body rails.
18. Ensure the slider locking pins are fully engaged into the trailer body rails before returning the trailer to service.

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