



1st Choice in Trailers
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962-0026

INSPECTION AND SERVICE PROCEDURE – Trailer Brake System

Please review and perform the following inspection procedure on MFI trailers. Should servicing be needed after inspection the proper Service Procedure is included.

Inspection:

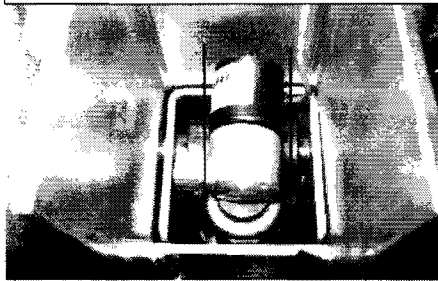
1. Check for signs of a brake fluid leak on the underside of the trailer tongue as shown below. If leakage is found, go to Remedy procedure on page 2. Also make note if leaking brake fluid has damaged paint. If OK, go to step 2.



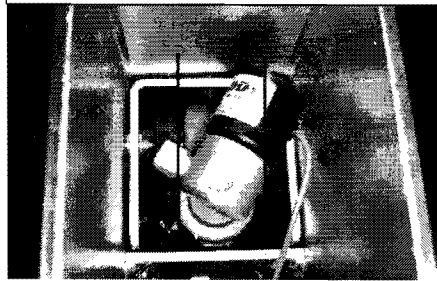
2. Open the swing-away trailer tongue and check for proper solenoid orientation. If the solenoid is improperly oriented, go to Remedy procedure on page 2. If OK, go to step 3.



Proper Orientation

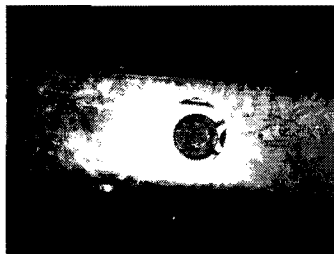


Improper Orientation



NOTICE:

Before continuing to step 3, open the brake fluid reservoir cap located on the top of the trailer tongue and check brake fluid level. If it is low, add fluid. **Take care to avoid spilling brake fluid and causing paint damage on painted trailers. Protect the surrounding trailer surface with masking tape and use a funnel. Wipe up any spilled fluid immediately.**



3. Manually check brake function. Locate the tab on the underside of the tongue. Insert a screwdriver into the round opening just behind the tab and push the piston backwards to activate the piston and hold, then push the tab in and hold. The piston should be simply held in place with the screwdriver while attempting to move the trailer. Resistance should be felt when activating the piston with the inserted screwdriver. If the manual brake check fails, go to Remedy procedure on page 2. If OK, the inspection is complete.



| Tools Required | Materials Required |
|--------------------------------|-------------------------------------|
| Snap Ring Pliers | Brake Fluid (Dot 3) |
| Standard Screwdriver | Electrical Tape |
| Wire Cutter | Masking Tape (for painted trailers) |
| 3/4" Wrench | |
| 5/8" Wrench | |
| 7/16" Wrench | |
| 3/8" Wrench | |
| Small Funnel | |
| Container to catch brake fluid | |

Remedy:

Should the trailer be leaking brake fluid, have the solenoid incorrectly orientated or fail the manual brake function test found use the information contained in this service bulletin to order and install a new trailer tongue actuator section.

1. Contact Metal Fabricators Inc. (MFI) at 1-800-606-9100, asking for Customer Service. Order the replacement actuator section of the trailer tongue. Also, notify MFI if paint was damaged by leaking brake fluid.
2. When replacement part arrives perform the following **Replacement Procedure** to replace the original actuator section with the new actuator section.

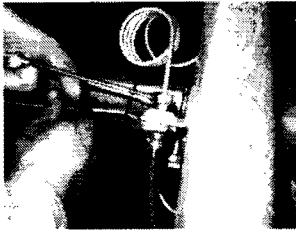


Replacement Procedure:

1. Disconnect the brake line from the rear connection located by the axle.

NOTICE:

Brake fluid can damage painted surfaces. Catch any leaking brake fluid in a rag.



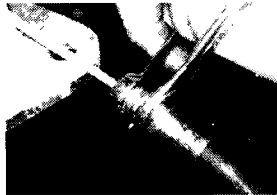
2. Open swing-away trailer tongue. Pull the brake line out far enough to access the line connection.



3. Disconnect the brake line at the tongue connection.

NOTICE:

Brake fluid can damage painted surfaces. Catch any leaking brake fluid in a rag.



4. Expose the wiring from the sleeve and remove the electrical tape from the blue connector. Cut both blue wires to remove the connector (a new connector is provided with the replacement part).



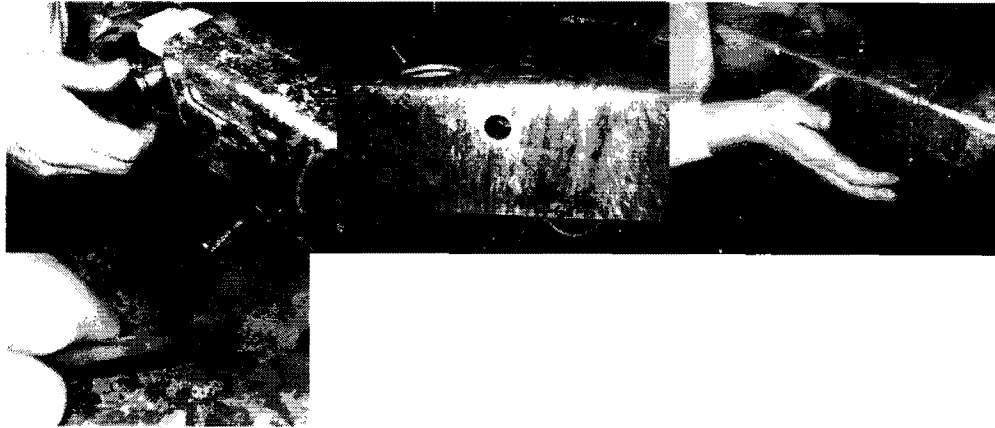
5. Use a snap ring pliers to remove the retaining clips. While keeping one hand underneath the actuator section, remove the two pins holding the inside and outside tongue sections together. Then slide the inner from the outer section.



6. Install the replacement actuator section. Using the snap ring pliers, remove the rear retaining clip and spacer. While supporting the section from underneath with one hand remove the rear pin and slide the replacement section into the outer section while leaving the front pin installed for now.



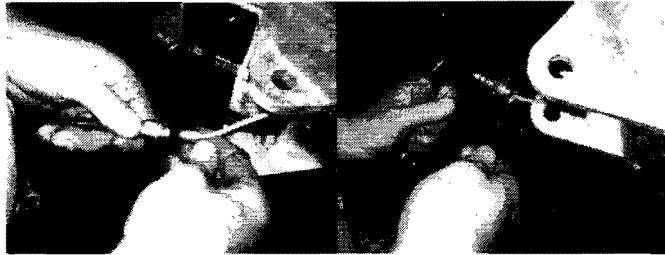
7. Using the snap ring pliers remove the front retaining clip, spacer and pin, slide the actuator section in the remainder of the way. Align the holes and install both pins into place. Note that the spacers are beveled to sit in the holes so the smaller side goes in towards the outer section.



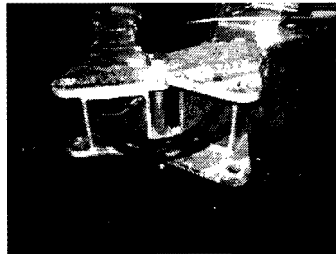
8. Connect the two blue wires using the new blue connector provided with the replacement part. Wrap with electrical tape.



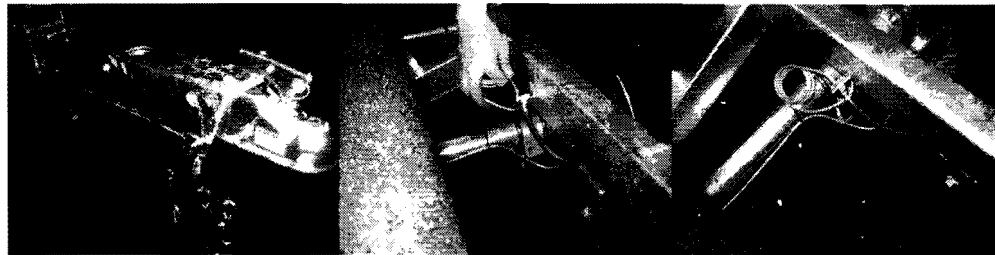
9. Reconnect the brake fluid line from the actuator section with the line from the trailer.



10. Pull the brake line slack out from the back by the axle and push in the wiring to ensure there is no interference when closing the swing-away tongue.



11. Close the swing-away tongue. Insert and clip the pin. Then reconnect the brake line to the connection located at the axle.



12. Remove the brake fluid reservoir cap located on the top of the trailer tongue. Fill the reservoir with brake fluid.

NOTICE:

Take care to avoid spilling brake fluid and causing paint damage on painted trailers. Protect the surrounding trailer surface with masking tape and use a funnel. Wipe up any spilled fluid immediately.



13. Bleed the brake lines, starting from the far side rear wheel, labeled (1) in the lower image. Locate the tab on the underside of the tongue, inserting a screwdriver into the round opening just behind the tab to activate the piston and then pushing in the tab. Move the piston back and forth 10 times. Then the person at the brake must open the fitting using a 7/16" wrench to allow the brake fluid to escape while looking for any air coming out with the fluid. Remember to have a container handy to capture the brake fluid. Then tighten the fitting, and repeat this step 2 additional times. Repeat the process on the other rear wheel, labeled (2) in the lower image. For trailers equipped with dual breaks, continue the process to include in front wheels, labeled (3) and (4) in the lower image, in that order. Remember to keep adding brake fluid to the reservoir during the process as needed.

