



FLEETMASTER MAINTENANCE PROCEDURE



⚠ WARNING You must read and understand the following instructions before operating your fifth wheel. Failure to follow all of the important maintenance procedures contained in these instructions may result in a hazardous condition or cause a hazardous condition to develop. All maintenance must be performed by a qualified person using proper tools and safe procedures. All maintenance must be performed while the tractor is uncoupled from the trailer.

As-Needed and Periodic Lubrication

1. **IMPORTANT!** Always maintain adequate lubrication in fifth wheel locking mechanism. Relube as necessary (see *Figure 1*).

2. Keep a low temperature, water resistant lithium grease applied to the trailer contact surface of the fifth wheel.

3. Grease the support bracket pockets through the grease fittings on the front of the fifth wheel bracket pockets (lift up slightly on the fifth wheel plate when applying grease).

4. **For fifth wheels with sliding brackets:** Release and slide fore and aft to assure entire mechanism functions properly. Apply an aerosol spray lubricant or soap to the slide path. Apply Never-Seez™ to the plunger and its moving parts. Reposition and lock sliding mechanism.

5. Inspect the release handle. If your fifth wheel is a **RIGHT HAND** (curb side) release, apply grease along the release handle where it contacts the handle spring (see *Figure 1a*). If you have a **LEFT HAND** (driver side) release handle with a sliding spring, as shown in *Figure 1b*, apply grease along the release handle where it contacts the handle spring. Lubrication is **NOT** required for **LEFT HAND** (driver side) release handles that **HAVE** a fixed spring (see *Figure 1c*).

6. Check the operation by locking and unlocking using a Holland TF-TLN-5001 Lock Adjustment Tool. Verify that the fifth wheel is completely closed, as shown in *Figure 3A* on page 2.

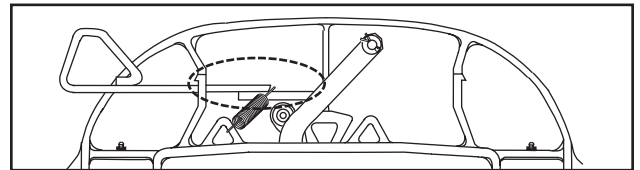
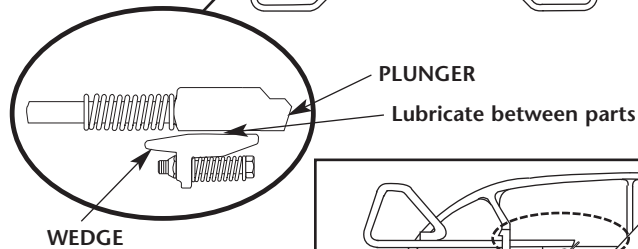
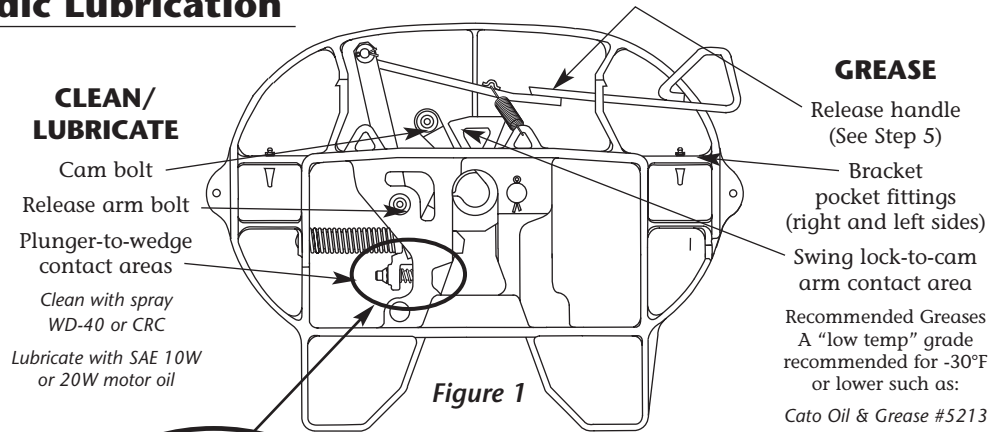


Figure 1a
Right Hand Release with Sliding Spring
(Grease Required)

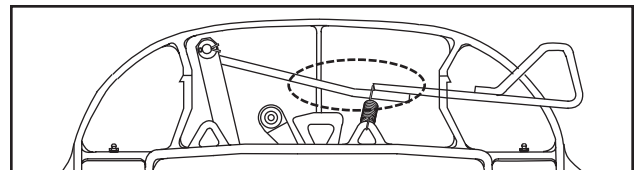


Figure 1b
Left Hand Release with Sliding Spring
(Grease Required)

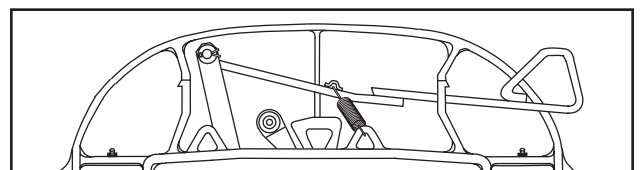


Figure 1c
Left Hand Release with Fixed Spring
(No Grease Required)

⚠️WARNING Do not use any fifth wheel that does not operate properly. If your fifth wheel does not operate properly, contact your nearest Holland Representative for assistance. Failure to properly operate this fifth wheel could result in tractor and trailer separation and may cause injury or death to others.

Required Inspections and Adjustments

Perform the following every six months or 60,000 miles, whichever comes first. Thoroughly steam clean all components before inspecting or adjusting.

General Fifth Wheel Inspection

1. Inspect the fifth wheel mounting. Check torque and replace any missing or damaged bolts. Check for broken, worn or damaged parts, replace as needed.
2. Thoroughly clean the fifth wheel locking mechanism every 6 months or 60,000 miles and relubricate (see *Figure 1*). Re-check operation with TF-TLN-5001 Lock Adjustment Tool.
3. Inspect the fifth wheel for bent, worn or broken parts. Replace with Holland parts only.
4. Make sure the bracket pin retention bolts and locknuts are in place and tight, as shown in *Figure 2*.

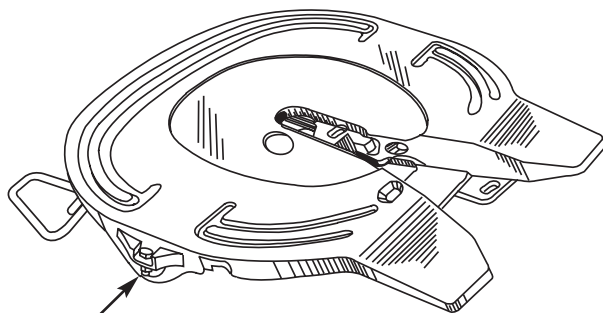


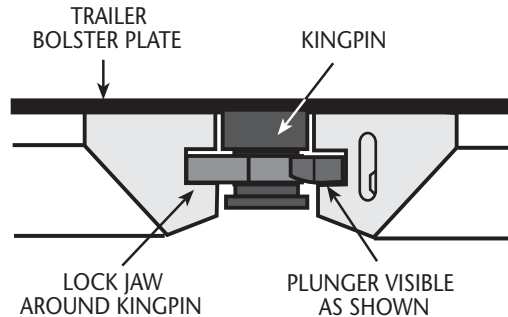
Figure 2

Make sure bolt and nut are in place and tight (both sides)

Inspection – Locking Mechanism

1. Check the operation of the fifth wheel locking mechanism using a Holland TF-TLN-5001 (2" kingpin) Lock Adjustment Tool. Inspect for proper locking as described in "*Fifth Wheel Operating Instructions*," Holland publications XL-FW353.
2. **IMPORTANT!** The lock is properly closed when:

Figure 3A



RIGHT!

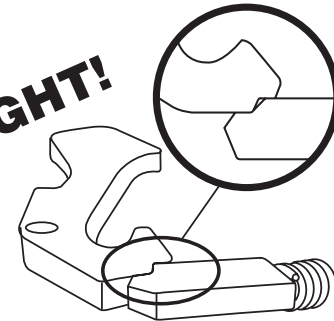


Figure 3B

WRONG!

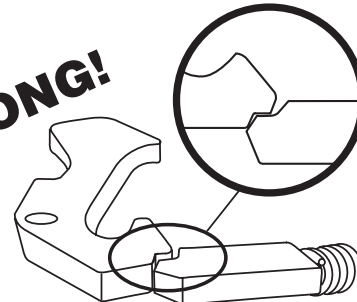
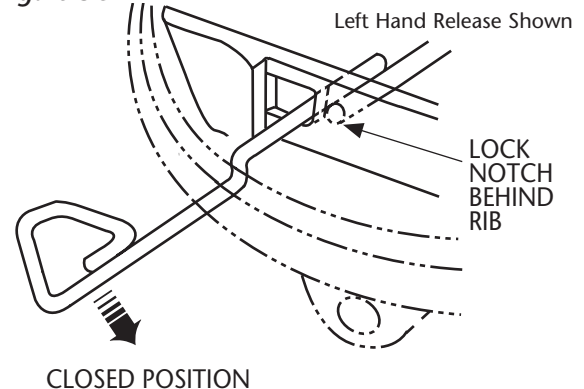


Figure 3C



Adjustment – Locking Mechanism

1. Using **ONLY** a Holland TF-TLN-5001 Lock Adjustment Tool, lock the fifth wheel.
2. **Check the plunger – it must be visible behind the lock and engaged on both steps**, as shown in *Figure 3A*. If the plunger is not visible or not engaged on both steps (*Figure 3B*), turn the adjustment bolt counterclockwise 1/2 turn, then try to lock the locks again.
3. **Check the release handle** – it must be fully retracted and the handle lock notch must be behind the rib as shown in *Figure 3C*.

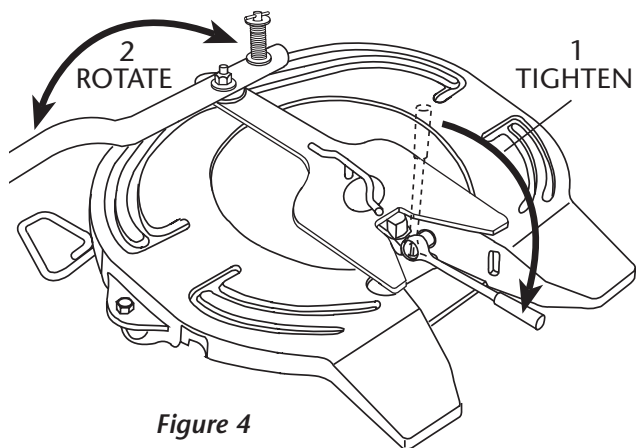


Figure 4

4. Using a 15/16" socket, tighten the locks by turning the lock adjustment bolt clockwise 1/4 turn at a time. Remove the socket wrench from the bolt and rotate the lock adjustment tool, as shown in *Figure 4*, to check for resistance between the lock and lock adjustment tool.
5. Continue to alternate tightening (clockwise) the adjustment bolt 1/4 turn at a time, removing the socket wrench, and rotating the lock adjustment tool until you feel resistance against the lock adjustment tool. Once you begin to feel resistance, **STOP!**

⚠ WARNING At this point, the fifth wheel is **OVERADJUSTED** and **NOT** useable. Using an improperly adjusted fifth wheel could result in tractor and trailer separation and may cause injury or death to others.

6. Loosen the adjustment bolt counter-clockwise **TWO FULL TURNS**. The lock is now properly adjusted.

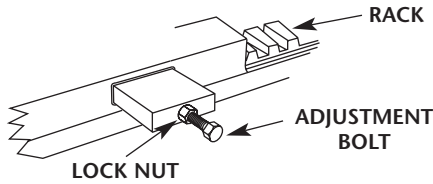
7. Verify this adjustment by locking and unlocking several times using the Lock Adjustment Tool; check for proper locking (See *Figure 3A* and *Figure 3C*).
8. If there is a large amount of fore and aft movement with the adjustment tool when verifying adjustment, check to make sure the lock is engaged in **both** steps (*Figure 2*).

If the lock is only engaged on one step, repeat **Step 2** (above), of the Adjustment Procedure until the lock engages on both steps. (See *Figure 3A*.)

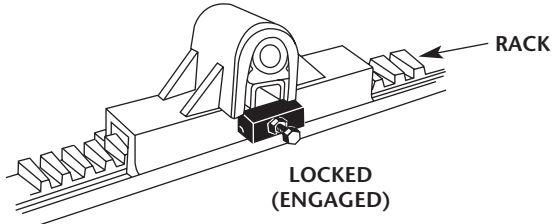
⚠ WARNING Improper adjustment can cause improper locking of the fifth wheel which could result in tractor and trailer separation and may cause injury or death to others. If the fifth wheel does not operate properly, **DO NOT USE IT!** Repeat the adjustment procedures or contact your local Holland representative for assistance.

Adjustment – Fifth Wheel Slide Mechanism

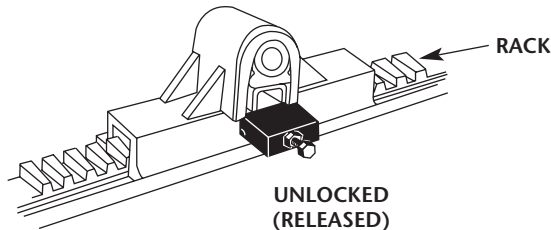
1. Loosen lock nut and turn the adjustment bolt out (counter-clockwise).



2. Disengage and engage the locking plungers. Verify that plungers have engaged properly, as shown.

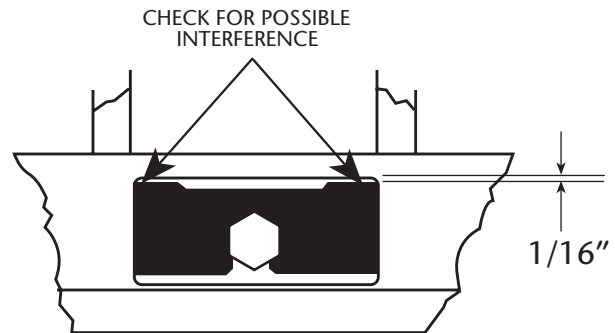


3. Now tighten adjustment bolt until it contacts the rack.
4. Turn the adjustment bolt clockwise an additional 1/2 turn, then tighten the lock nut securely.
5. If plungers do not release fully to allow fifth wheel to slide:



- a. Check the air cylinder for proper operation. Replace if necessary.
- b. Check plunger adjustment as explained above.
- c. If a plunger is binding in the plunger pocket, remove the plunger using a Holland TF-TLN-2500 spring compressor. Grind the top edges of the plunger 1/16", as shown. Re-install and adjust the plungers as explained above.

WARNING Proper adjustment of the locking plungers must be performed at regular intervals and is required for proper operation, load transfer and distribution.



6. If the locking plungers are too loose:
 - a. Check plunger adjustment as explained above.
 - b. Check plunger springs for proper compression. Replace if necessary.
 - c. Check for plunger wear, and replace if necessary.

After inspection and adjustment, relubricate all moving parts with a light, rust resistant oil.

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