

FW8010 FIFTH WHEEL OPERATING MANUAL







You must read and understand the instructions in this manual before operating your fifth wheel.

Failure to follow all of the important operating procedures contained in these instructions may result in a hazardous condition or cause a hazardous condition to develop.

These instructions apply to the proper operation of your fifth wheel only. There are other important checks, inspections, and procedures not listed here that are necessary, prudent, and/or required by law.

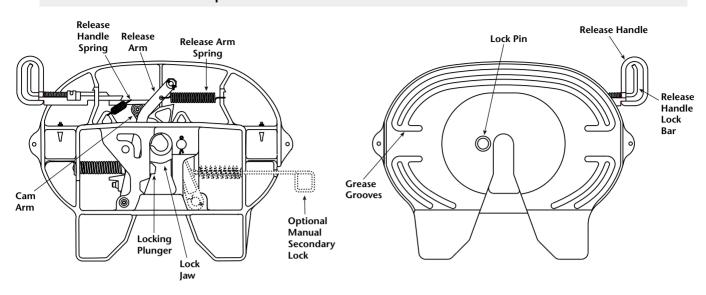
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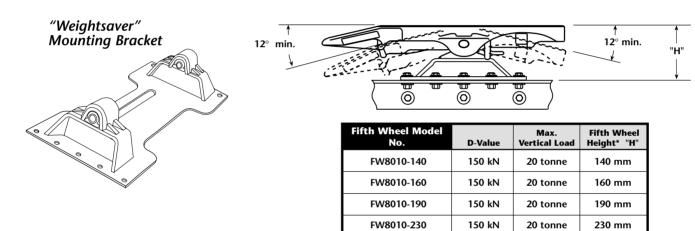
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1. Component Part Identification and Specifications

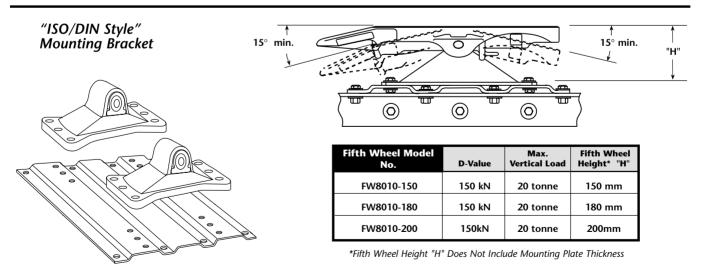
1.1 Identification of Component Parts



1.2 Important Specifications



*Fifth Wheel Height "H" Does Not Include Mounting Plate Thickness



2. Operating Instructions

2.1 Pre-service Inspection

- **1** Inspect the fifth wheel mounting.
 - Tighten loose fasteners
 - Replace missing fasteners
 - Repair/replace cracked components



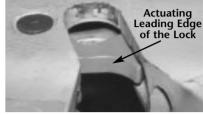
Make sure the coupling area is flat, level and clear of obstacles and persons



Lubricate the fifth wheel-to-trailer contact surface with grease.

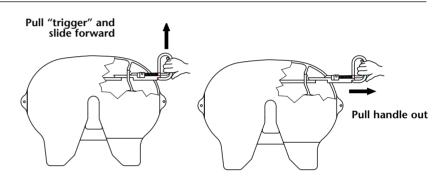
Tilt the ramps down.





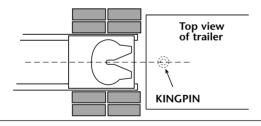
Lock Open Position

- f the locks ar closed:
 - Grip handle
 - Pull "trigger"
 - Slide forward/right (to disengage the lock)
 - Pull handle out

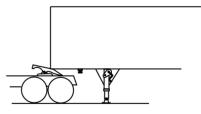


2.2 Trailer Coupling Procedure

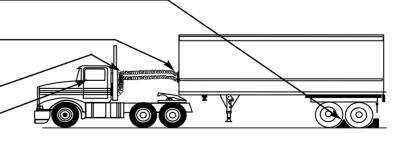
Center the kingpin with the fifth wheel center.



Back the tractor close to the trailer and **STOP**.

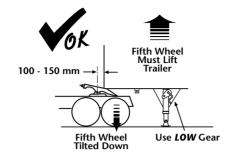


- **3** Chock trailer wheels
- Connect brake and electrical cord immediately after coupling
- Support slack in lines to prevent interference
- **6** Set trailer brakes



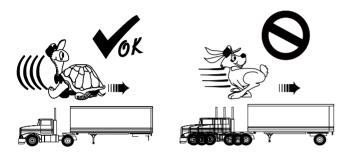
2.2 Trailer Coupling Procedures (continued)

Adjust trailer height so the fifth wheel will lift the trailer. The Trailer should contact the fifth wheel 100 – 150 mm behind the fifth wheel bracket pin.

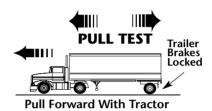




8 SLOWLY back into trailer.

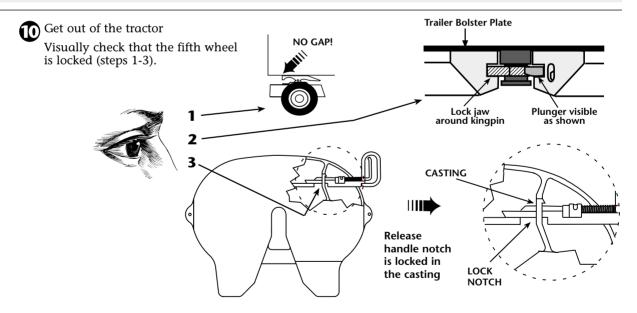


9 Do a pull test.





The coupling procedure is not complete without a visual inspection. You must get out of the tractor and verify that the fifth wheel is properly coupled to the kingpin as shown below.

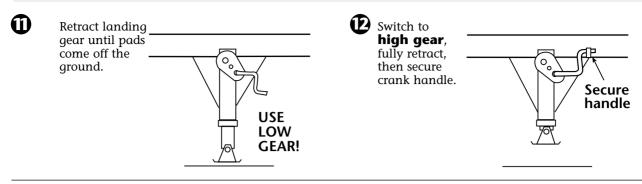




If you do not obtain a proper couple, repeat the coupling sequence. **DO NOT use any fifth wheel that fails to operate properly.**

2. Operating Instructions (continued)

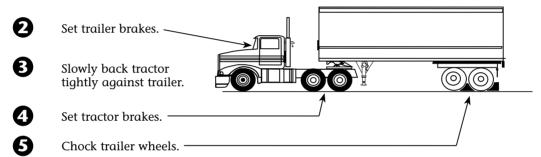
2.2 Trailer Coupling Procedures (continued)

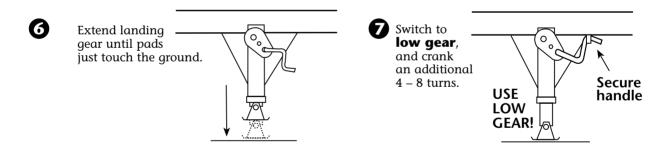


Re-check brake lines and light cord. Remove chocks, continue with pre-trip inspection.

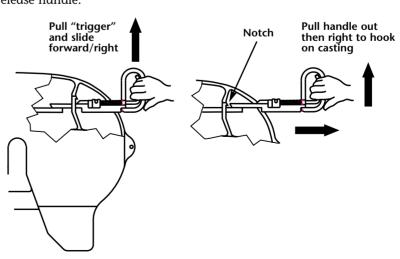
2.3 Trailer Uncoupling Procedure

Position tractor and trailer on firm, level ground — clear of obstacles and persons.



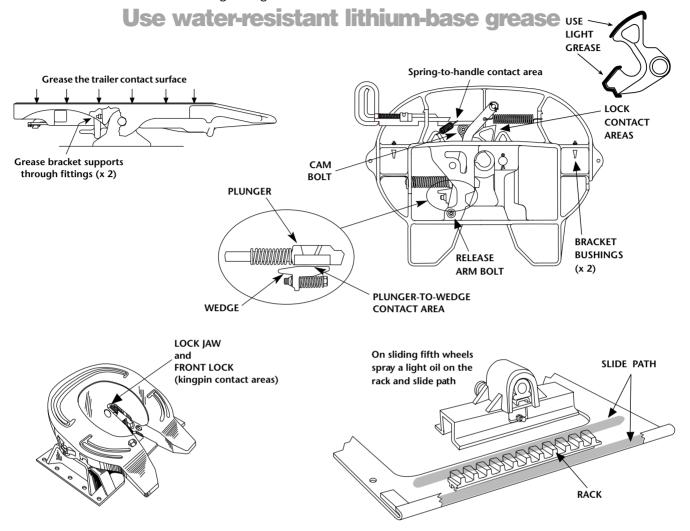


- 8 Unlock fifth wheel with release handle.
 - Grip handle
 - Pull "trigger"
 - Slide forward (to disengage lock)
 - Pull handle out
 - Hook handle on unlock notch of casting
- Disconnect brake and electrical lines.
- Release tractor brakes and slowly drive away from the trailer.



3.1 As Needed Lubrication

Note: Maintain adequate lubrication on the following surfaces by inspecting and re-lubricating at regular intervals.



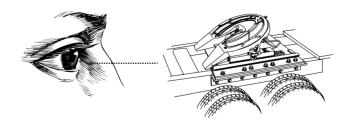
3.2 Required Inspections and Adjustments

NOTE: Perform the following every three (3) months or 50,000 km, whichever comes first. Thoroughly clean all components before inspecting or adjusting.

3.2.1 General Fifth Wheel Inspection

Inspect the fifth wheel mounting and fifth wheel assembly

- Tighten loose bolts and fasteners.
- Check bolt and fastener torque.
- Replace missing or damaged bolts
- Replace bent, worn, or broken parts.



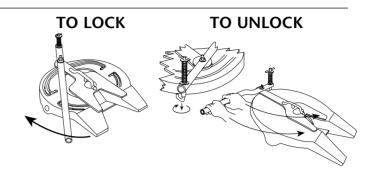
Use only genuine Holland parts kits

3.2 Required Inspections and Adjustments (continued)

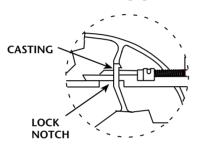
NOTE: Perform the following every three (3) months or 50,000 km, whichever comes first. Thoroughly steam clean all components before inspecting or adjusting.

3.2.2 Inspection of Locking Mechanism

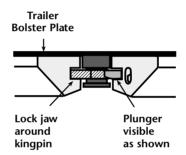
- Verify the proper operation of the fifth wheel by locking and unlocking the fifth wheel locks using a Holland Kingpin Lock Tester TF-TLN-1000 or TF-TLN-5001.
- 2 Set tool on the fifth wheel and rotate the handle.
- Push down and rotate the "J" hook under the fifth wheel, then pull the handle back.
- After each attempt, verify that the fifth wheel is properly locked, as shown below. The fifth wheel is properly locked when the plunger and lock are engaged on both steps".

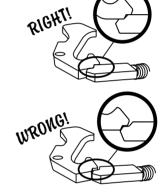


Lock and plunger engaged on both steps



Release handle notch is locked in the casting



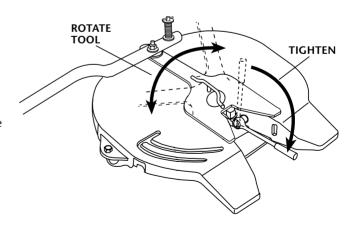




DO NOT use any fifth wheel that fails to operate properly.

3.2.3 Lock Adjustment Procedure

- Using **ONLY** a Holland TF-TLN-5001 Lock Adjustment Tool, lock the fifth wheel and verify that it is closed as shown above in Step 3.2.2.
- Using a ¹⁵/₁₆ socket, tighten the lock by turning the lock adjustment bolt clockwise 1/4 turn at a time. Remove the socket wrench from the bolt and rotate the tool as shown to check for resistance between the tool and lock.
- Continue to alternate tightening (clockwise) the adjustment bolt 1/4 turn at a time, removing the socket wrench, and rotating the tool until you feel resistance against the tool. Once you begin to feel resistance, STOP!





At this point, the fifth wheel is **OVER ADJUSTED** and **NOT** usable. The remaining adjustment procedures must be completed.

Required Inspections and Adjustments (continued)

Lock Adjustment Procedure (continued)

Loosen the adjustment bolt (counter-clockwise) ONE FULL TURN. The lock is now properly adjusted.

Verify the proper adjustment by locking and unlocking the fifth wheel several times with the lock tester. if there is a large amount of fore and aft movement, check to make sure the lock and

plunger are engaged on both steps. If they are only engaged on one step, repeat the lock adjustment procedures.



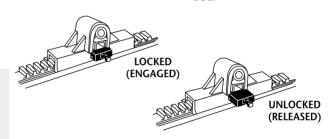
Improper adjustment can cause improper locking of the fifth wheel. If the fifth wheel does not operate properly, DO NOT USE IT! Repeat the adjustment procedures or contact Holland.

3.2.4 Adjustment of the Sliding Fifth Wheel Mechanism (if so equipped)

- Loosen the lock nut and turn the adjustment bolt out (counter-clockwise).
- Disengage and engage the locking plungers. Verify that the plungers have seated properly as shown below.
- Now tighten the adjustment bolt until it contacts the rack.
- Turn the adjustment bolt clockwise an additional 1/2 turn, then tighten the lock nut securely.



Proper adjustment of the sliding bracket locking plungers must be performed at installation, and maintained at regular intervals using the adjustment bolts for both plungers. Proper adjustment is required for proper operation, load transfer, and load distribution.



Check for possible interference

ADJUSTMENT

ROLT

LOCK

NUT

If the plungers do not release fully to allow the fifth wheel to slide:

- A. Check the air cylinder or the manual slide operating lever for proper operation. Replace if necessary.
- B. Check plunger adjustment as explained above.
- C. If a plunger is binding on the plunger pocket, remove the plunger using a Holland TF-TLN-2500 spring compressor. Grind the top edges of the plunger 1/16ý as shown at right. Re-install and adjust the plungers as explained above.

If the locking plungers are too loose:

- A. Check the plunger adjustment as explained above.
- B. Check the plunger springs for proper compression. Replace if necessary.
- C. Check for plunger wear. If necessary, replace as described above.

After inspection and adjustment, re-lubricate all moving parts with a light, rust resistant oil.

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