

FW3510 FIFTH WHEEL OPERATING MANUAL

Holland HITCH





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.

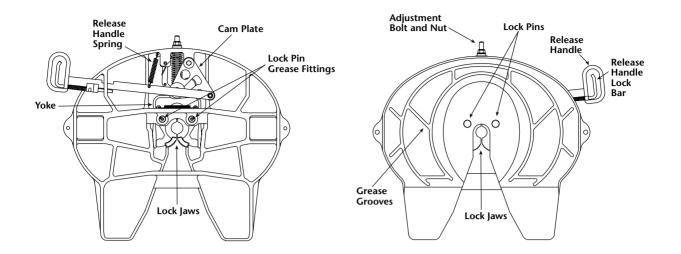
These instructions apply to the proper operation of your fifth wheel only. There are other important checks, inspections, and procedures not listed here that are necessary, prudent, and/or required by law.

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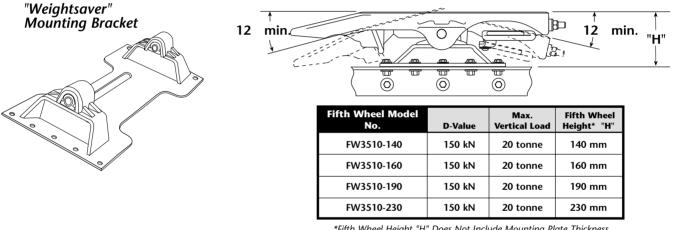
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1. Component Part Identification and Specifications

1.1 Identification of Component Parts

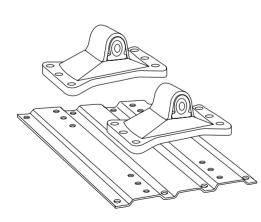


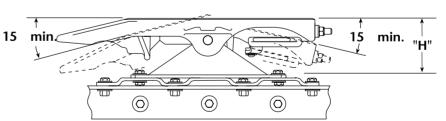
1.2 Important Specifications



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

"ISO/DIN Style" Mounting Bracket

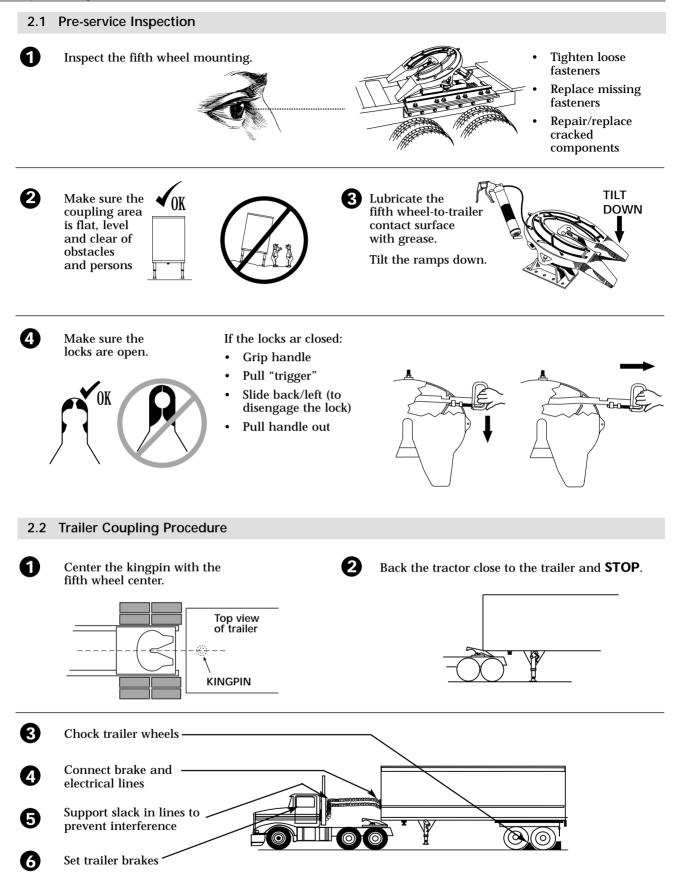




Fifth Wheel Model No.	D-Value	Max. Vertical Load	Fifth Wheel Height* "H"
FW3510-150	150 kN	20 tonne	150 mm
FW3510-180	150 kN	20 tonne	180 mm
FW3510-200	150kN	20 tonne	200mm

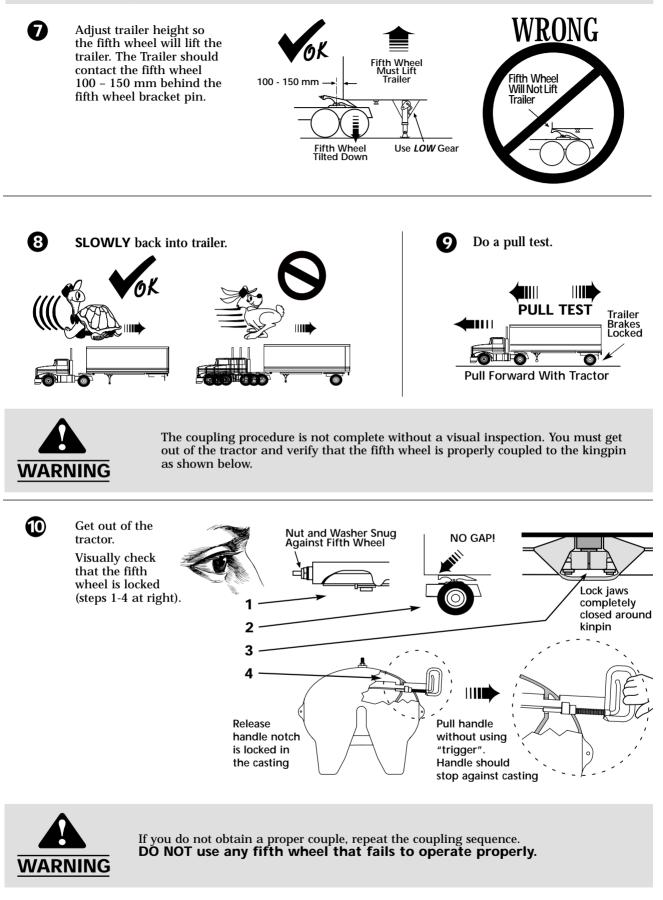
*Fifth Wheel Height "H" Does Not Include Mounting Plate Thickness

2. Operating Instructions



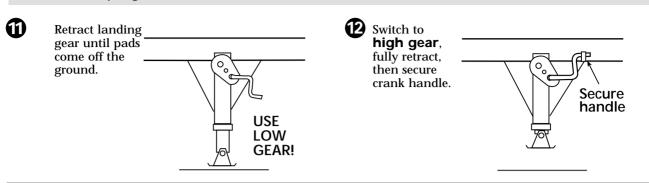
2. Operating Instructions (continued)

2.2 Trailer Coupling Procedures (continued)



2. Operating Instructions (continued)

2.2 Trailer Coupling Procedures (continued)

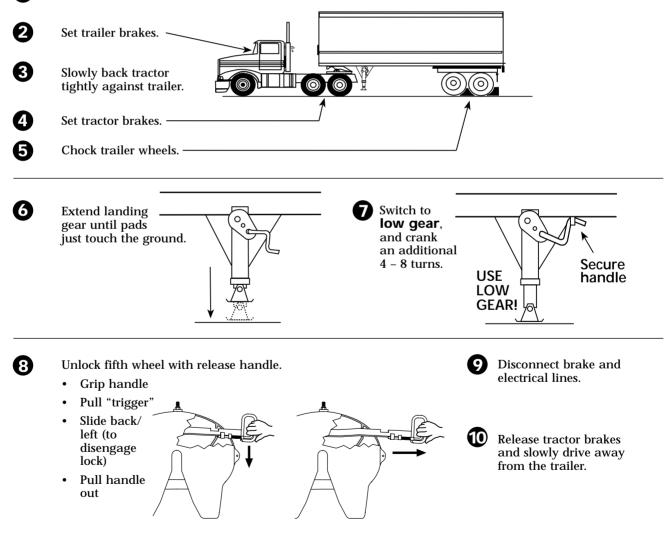


Re-check brake lines and light cord. Remove chocks, continue with pre-trip inspection.

2.3 Trailer Uncoupling Procedure

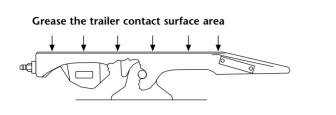
B

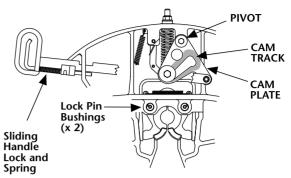
Position tractor and trailer on firm, level ground — clear of obstacles and persons.



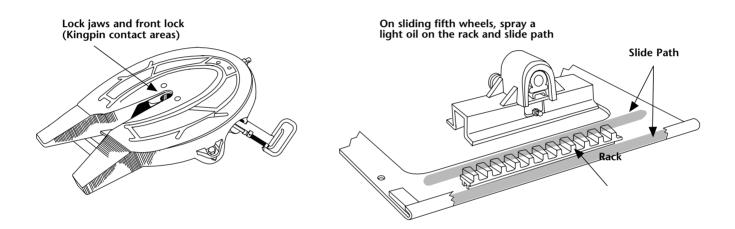
3.1 As Needed Lubrication

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





Use water-resistant lithium based grease



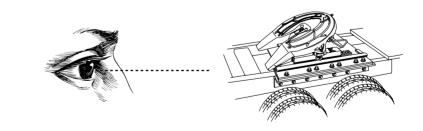
3.2 Required Inspections and Adjustments

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. Maintenance Procedures (continued)

- 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.

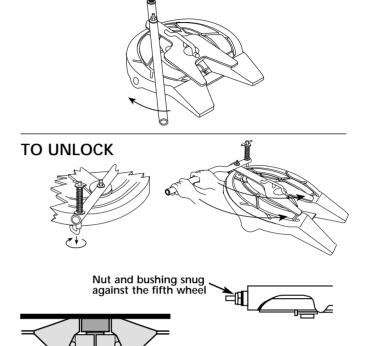
TO LOCK

- 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.



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.



shown below.

WARNING

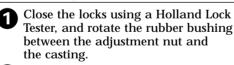
If you do not obtain a proper couple, repeat the coupling sequence.

After each attempt, verify that the

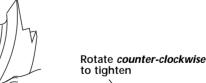
fifth wheel is properly locked, as

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

3.2.3 Lock Adjustment Procedure



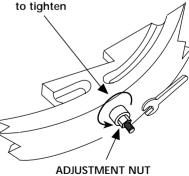
2 If the bushing is tight, rotate the adjustment nut counter-clockwise until the bushing is snug, but can still be rotated by hand.



Locks completely closed

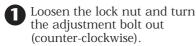
around the kingpin

Release handle notch is locked in the casing



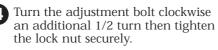
3.2 Required Inspections and Adjustments (continued)

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



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

3 Now tighten the adjustment bolt until it contacts the rack.

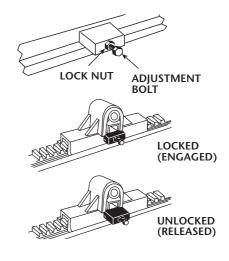




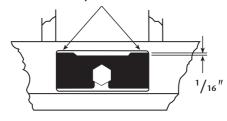
Proper adjustment of the sliding bracket locking plungers must be performed at installation, and maintained at regular intervals using the adjustment bolts for both plungers. Proper adjustment is required for proper operation, load transfer, and load distribution.

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 ¹/₁₆" 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.

Holland

The Holland Group, Inc. Holland, MI 49423 United States Phone: (616) 396-6501 Fax: (616) 396-1511



Holland Europe GmbH Altenkamp 9 D-33758 Schloss Holte-Stukenbrock Germany

Germany Phone: +49 (0) 5207-89560 Fax: +49 (0) 5207-895656

Holland Eurohitch Ltd. Hoo Farm Industrial Estate Worcester Road Kilderminster Worcestershire DY11 7RA Phone: +44 (0) 1562-732010 Fax: +44 (0) 1562-732020

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Holland Hitch (Aust.) Pty. Ltd. Melton, Victoria, Australia

 Melton, Victoria, Australia

 Phone:
 61-(0)3-9743-6799

 Fax:
 61-(0)3-9747-9617

 Holland Transtrade

 (Thailand) Company, Ltd.

 Bangkok, Thailand

 Phone: 66 (0)2-513-8758

 Fax:
 66 (0)2-513-8757

Nippon Holland, Ltd. Tokyo, Japan

токуо, Japan Phone: 81-(0)3-3461-9130 Fax: 81-(0)3-3463-1407

Holland Transtrade Far East SDN BHD Shah Alam, Malaysia Phone: 60 (0)3 734-2888 Fax: 60 (0)3 736-5588