









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.

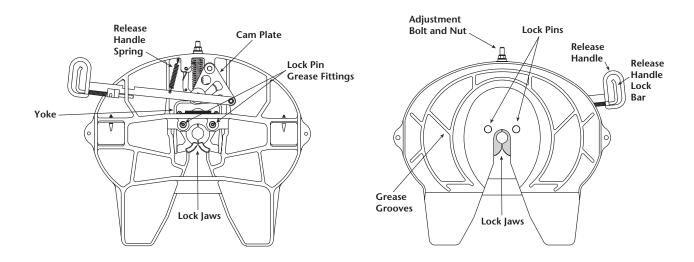
Table of Contents

1.	Com	ponent Part Identification and Specifications
	1.1	Identification of component parts
	1.2	Important specifications
2.	Ope	rating Instructions
	2.1	Pre-service inspection
	2.2	Trailer coupling procedures
	2.3	Trailer uncoupling procedures
3.	Rout	ine Inspection and Maintenance
	3.1	As Needed Lubrication
	3.2	Required Inspections and Adjustments
		3.2.1 General fifth wheel inspection
		3.2.2 Inspection of locking mechanism
		3.2.3 Lock adjustment procedure

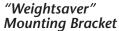
XL-FW1114-01 1

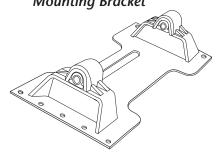
1. Component Part Identification and Specifications

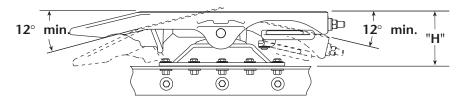
1.1 Identification of Component Parts (Standard Greased FW3510 Shown)



1.2 Important Specifications



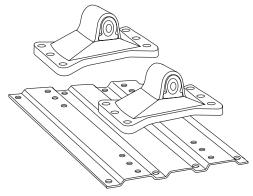


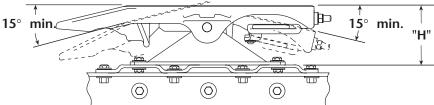


Fifth Wheel Model No. **	D-Value	Max. Vertical Load	Fifth Wheel Height* "H"
FW3510-140	150 kN	20 tonne	140 mm
FW3510-160	150 kN	20 tonne	160 mm
FW3510-190	150 kN	20 tonne	190 mm
FW3510-230	150 kN	20 tonne	230 mm

- * Fifth Wheel Height "H" Does Not Include Mounting Plate Thickness.
- ** For the low lube version replace the "35" with "34" (i.e. FW3410-150); for the no lube version replace the "35" with "31" (i.e. FW3110-150).

"ISO/DIN" **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	150 kN	20 tonne	200 mm

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

 ** For the low lube version replace the "35" with "34" (i.e. FW3410-150);
 for the no lube version replace the "35" with "31" (i.e. FW3110-150).

2. Operating Instructions

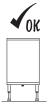
2.1 Pre-service Inspection

1 Inspect the fifth wheel mounting.



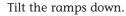
- Tighten loose fasteners
- Replace missing fasteners
- Repair/replace cracked components

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





3 Lubricate the fifth wheel-to-trailer contact surface with grease (not required for the FW3310 & FW3110).



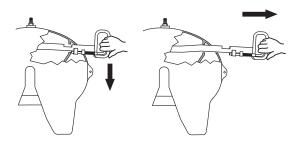


Make sure the locks are open.



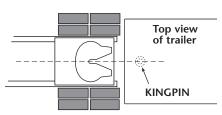
If the locks are closed:

- Grip handle;
- Pull "trigger";
- Slide back/left (to disengage the lock);
- Pull handle out.

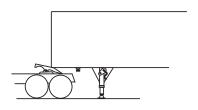


2.2 Trailer Coupling Procedure

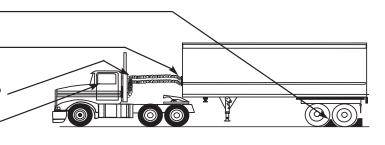
Center the kingpin with the fifth wheel center.



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



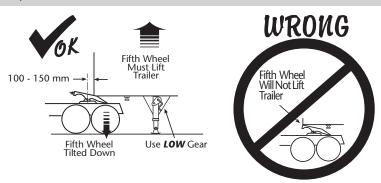
- **3** Chock trailer wheels
- Connect brake and electrical lines
- Support slack in lines to prevent interference
- 6 Set trailer brakes

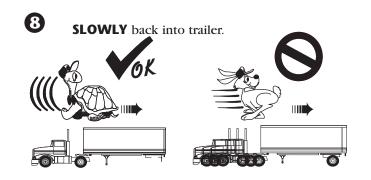


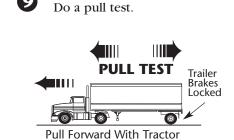
2.2 Trailer Coupling Procedures (continued)



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.

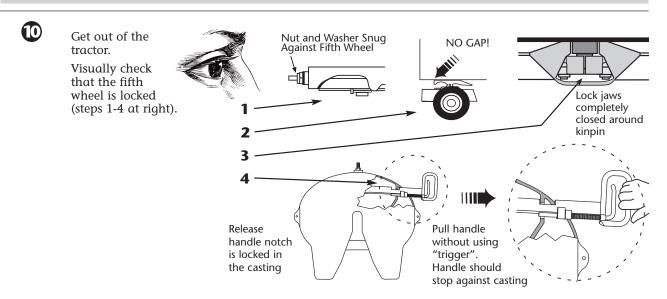








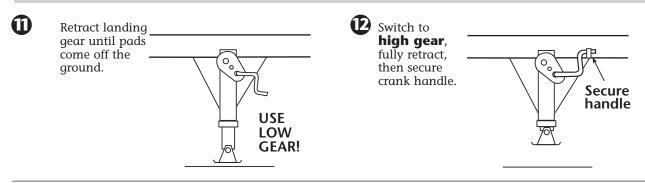
The coupling procedure is not complete without a visual inspection. You must get out of the tractor and verify that the fifth wheel is properly coupled to the kingpin as shown below.





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

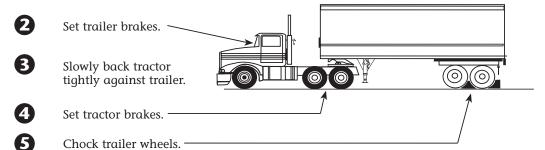
2.2 Trailer Coupling Procedures (continued)

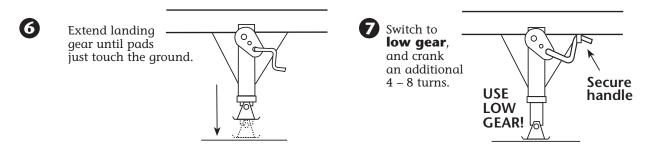


Re-check brake lines and light cord. Remove chocks, continue with pre-trip inspection.

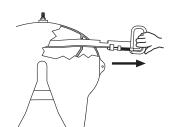
2.3 Trailer Uncoupling Procedure

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





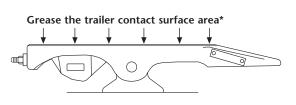
- Unlock fifth wheel with release handle.
 - Grip handle
 - Pull "trigger"
 - Slide back/ left (to disengage lock)
 - Pull handle out



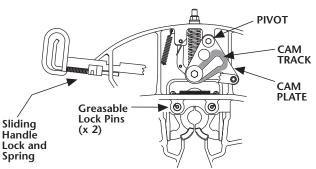
- **9** Disconnect brake and electrical lines.
- Release tractor brakes and slowly drive away from the trailer.

3.1 As Needed Lubrication

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

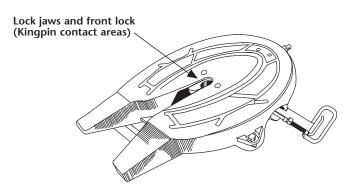


*not required for the FW3310 & FW3110 models.



Note: Lubrication is not required on the FW3110 "No Lube" model.

Use water-resistant lithium-base grease



Note: Lubrication is not required on the FW3110 "No Lube" model.

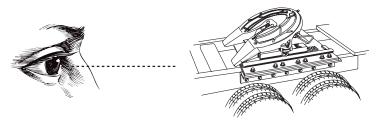
3.2 Required Inspections and Adjustments

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.



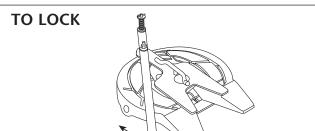
Use only genuine Holland parts kits

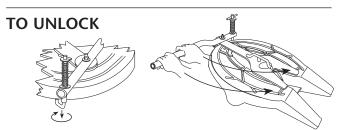
3.2 Required Inspections and Adjustments (continued)

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.



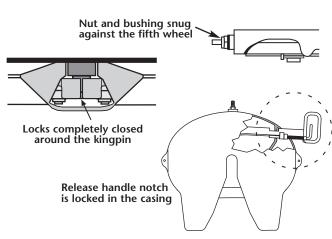


4 After each attempt, verify that the fifth wheel is properly locked, as shown below.



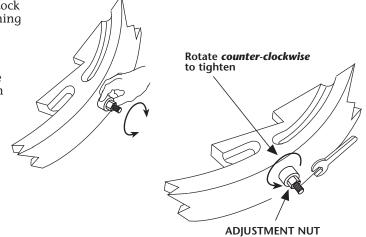
If you do not obtain a proper couple, repeat the coupling sequence.

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



3.2.3 Lock Adjustment Procedure

- Close the locks using a Holland Lock Tester, and rotate the rubber bushing between the adjustment nut and the casting.
- 2 If the bushing is tight, rotate the adjustment nut counter-clockwise until the bushing is snug, but can still be rotated by hand.



Copyright © September 2005 • The Holland Group, Inc. -



The Holland Group, Inc. Holland, MI 49423 United States

(616) 396-6501 (616) 396-1511



Certified Company

Holland Europe GmbH Holiatra Luispe Chias...
Altenkamp 9
D-33758
Schloss Holte-Stukenbrock
Germany
Phone: +49 (0) 5207-89560
Fax: +49 (0) 5207-895656

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

Holland Hitch (Aust.) Pty. Ltd. 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 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