



Stationary Kompensator[®] for

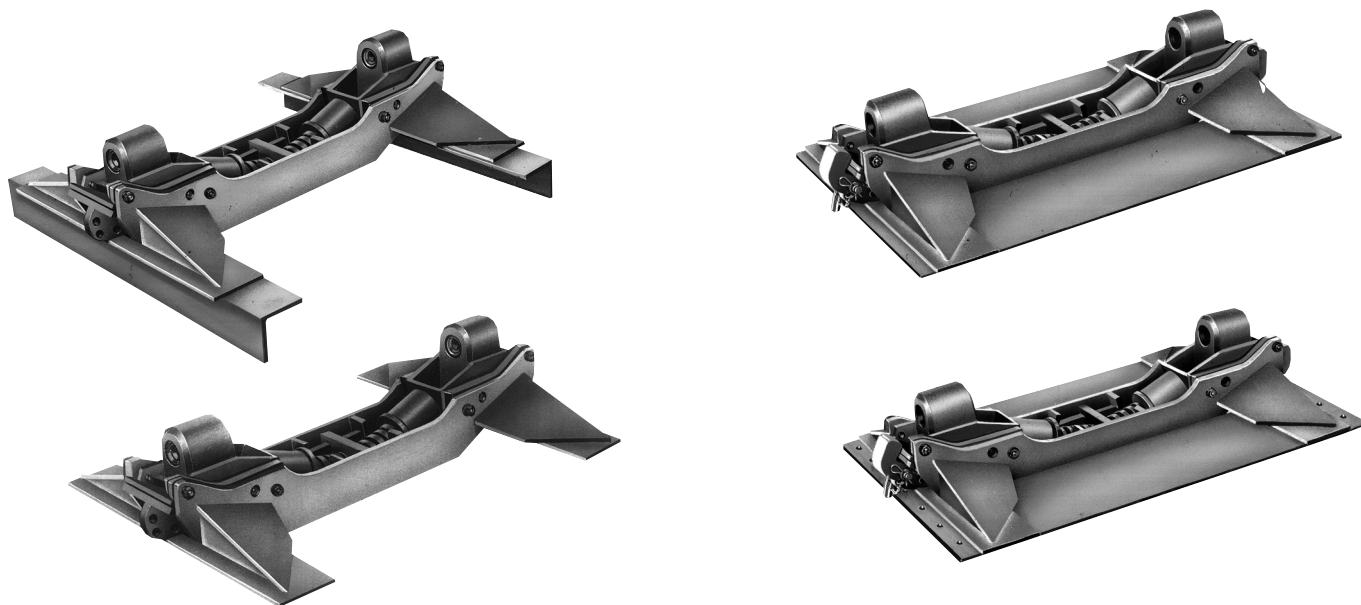
FW8-77XX Series

FW35-77XX Series

FW7040-77XX Series

FW2040-77XX Series (obsolete)

FW3540-77XX Series (obsolete)



MAINTENANCE PROCEDURES

⚠ WARNING

Failure to read, understand and follow the important information contained herein 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.

NOTE:

The maintenance procedures contained in this manual apply mainly to the Kompensator[®] base subassembly portion of the fifth wheel assembly. Additional procedures beyond those discussed in this manual are required for the fifth wheel top plate. Contact your nearest Holland distributor for the appropriate additional information.

AS-NEEDED LUBRICATION

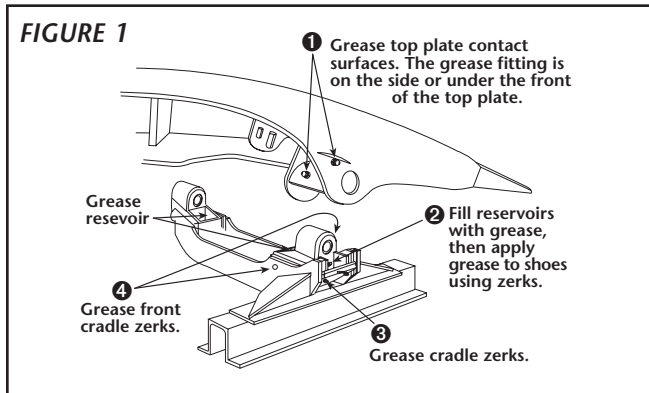
The following should be performed before putting into use and then **at least once per week** or more frequently as required by operating conditions.

Perform the following steps **while in the uncoupled condition** to allow correct application of lubricant.

While lifting up on the fifth wheel top plate, apply grease to the:

1. ...fittings on the fifth wheel top plate (see **FIGURE 1**, ①) that supply grease to lubricate the bracket shoe cap and top plate pocket. (**NOTE:** LowLube or NoLube top plates do not have these fittings.)
2. ...fittings ② on the side of the shoes (*Item 3*) that fill a reservoir that requires approximately 2 pounds of grease.
3. ...fittings ③ on the base (ends) of the cradle (*Item 14*).
4. ...fittings ④ on the front and back of the cradle (*Item 15*).

FIGURE 1



All of the following must be performed after the initial 5,000 miles of service and then every 60,000 miles or 6 months, whichever comes first.

Perform all inspections and adjustments after a thorough steam cleaning.

NOTE: Severe service applications may require more frequent intervals.

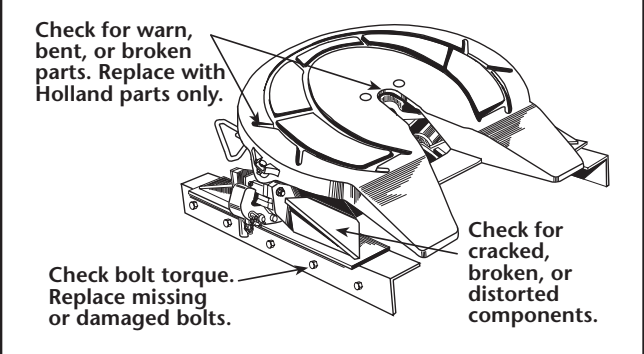
1. Inspection – General

- A. Inspect the fifth wheel mounting. Check bolt torque and replace any loose, missing, or damaged bolts. Check for broken, distorted, or cracked components. Repair or replace as needed.
- B. Inspect fifth wheel top plate and Kompensator assembly for bent, worn, cracked, or broken parts. Replace with HOLLAND parts only. (See **Figure 2**.)

2. Fifth Wheel Locking Mechanism: Measure Fore-Aft Movement.

- A. Test the operation of the fifth wheel locking mechanism using a Holland TF-TLN-5001, 2" Kingpin or TF-TLN-1500, 3 $\frac{1}{2}$ " Kingpin Lock Tester. Inspect for proper locking.

FIGURE 2



⚠ WARNING

Do not use any fifth wheel which does not operate properly

- B. Check the adjustment of the fifth wheel locks by moving the lock tester fore and aft when locked in the locking mechanism. Fore and aft play should be adjusted to less than 0.06" ($\frac{1}{16}$ "). Adjust the fifth wheel locks as described in Holland Publications "Fifth Wheel Maintenance Procedures" XL-FW303-XX, XL-FW308-XX, and XL-FW354-XX for the particular type of locking mechanism. If the locks cannot be properly adjusted due to wear, the fifth wheel should be repaired or replaced. Your HOLLAND Distributor has parts, part kits and fifth wheel top plates available.

⚠ WARNING

Improper adjustment can cause improper locking of the mechanism.

- C. The trailer kingpin should also be inspected for wear and damage. A HOLLAND Kingpin Gauge (TF-0110) is available to aid this inspection.

3. Kompensator Base Sub-Assembly: Measure Fore-Aft Movement.

- A. Measure the fore and aft movement of the shoe sub-assembly in the Kompensator bracket. (See **Figure 3**.)

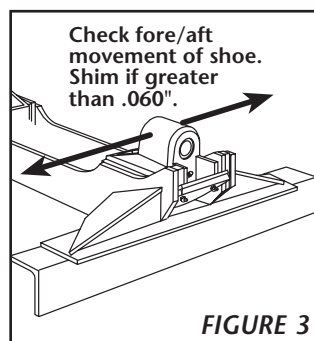


FIGURE 3

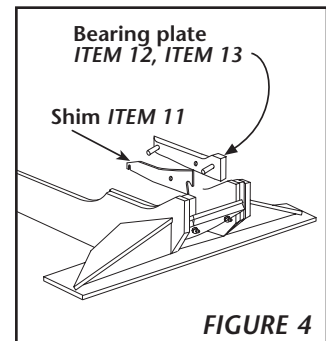
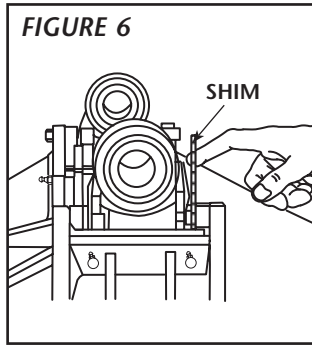
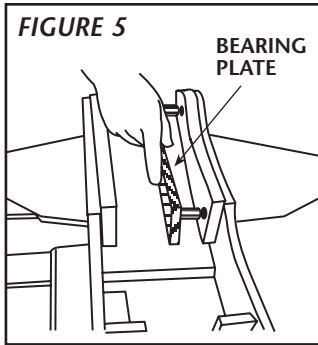


FIGURE 4

Add shims (*ITEM 11*) and/or new bearing plates (*ITEM 12* or *ITEM 13*) when this movement exceeds 0.060" ($\frac{1}{16}$ "). See *Figures 3* through *6*.



B. If shimming is required, shim as follows:

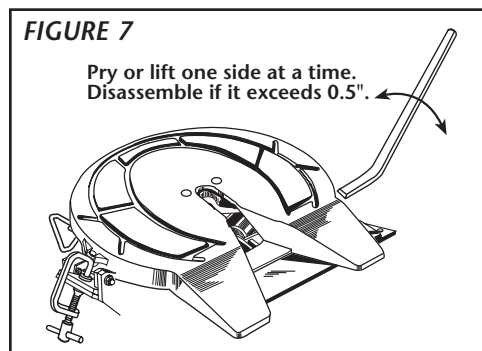
1. Remove shoes and disassemble Kompensator. See *Figure 3*.
2. Remove bearing plates (*ITEM 12* and *ITEM 13*). Measure thickness if less than .31" ($\frac{5}{16}$ ") thick. Replace with new Holland part.
3. Install shims.
4. Check for free lateral movement of shoe in frame. **DO NOT over shim.**

Recheck fore and aft movement of the shoe subassembly. Movement is to be less than .06" ($\frac{1}{16}$ ").

- C.** Inspect the cushions (*ITEM 5*) and other components for distortion and splitting or cracking. If disassembly is required, follow steps 1–5 under section 4 below, and replace as required.

4. Kompensator Base Subassembly: Measure Upward Movement:

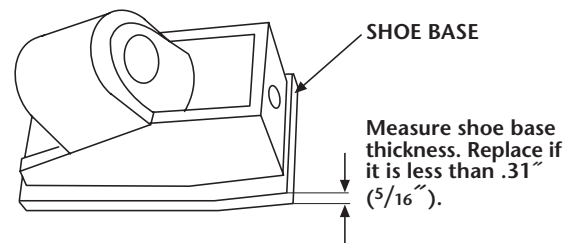
- A.** Measure upward clearance on the assembly. Do this on one side at a time by lifting the fifth wheel top plate upward manually with the aid of a bar (see *Figure 7*). Clamp the shoe (*ITEM 2*) on the opposite side to prevent its movement, which will affect the measurement (see *Figure 7*). If the total movement exceeds 0.5" ($\frac{1}{2}$ "), the unit should be disassembled for further inspection.



If disassembly is required, follow the steps below:

1. Remove the fifth wheel top plate from the Kompensator base removing the appropriate roll pins and bracket pins or cotter pins, nuts and bolts, depending upon model.
2. Remove all loose internal parts (shoes, tie rod, etc.).
3. Inspect all parts for distortion, wear and cracking. Replace if necessary.
4. Measure the thickness of the curved base of the shoe sub-assembly (*ITEM 2*). The shoe should be replaced if the base thickness measures less than 0.31" ($\frac{5}{16}$ "). See *Figure 8*.
5. Reassemble and lubricate as noted above. Check for free lateral and fore-aft movement of the shoe sub-assemblies after reassembly.

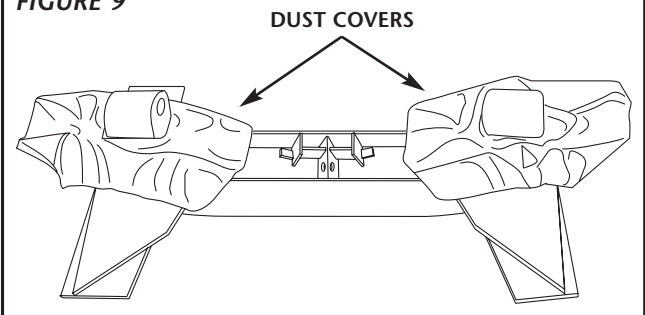
FIGURE 8



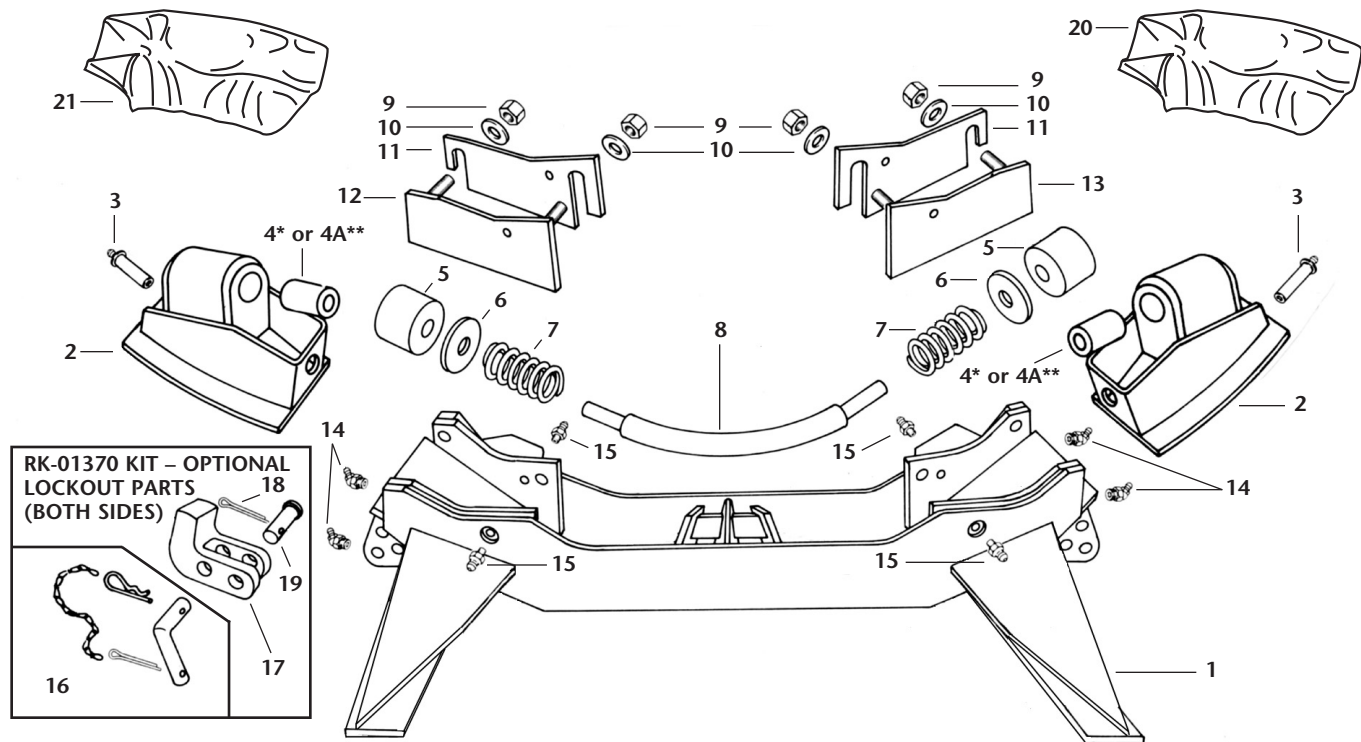
NOTE:

For severe dusty/dirty environments, shoe dust covers (see *Figure 9*) are available. request Holland parts XA-0128-L and XA-0128-R.

FIGURE 9



Parts Breakdown



ITEM	PART NO.	NO.	PART NAME	ITEM	PART NO.	NO.	PART NAME
1	XA-45-77XX	1	Kompensator® Frame	11	XA-0014	2	Shim (as required)
2	XA-0024	2	Shoes Subassembly – includes part no. (3)	12	XA-01997	1	Bearing Plate – Right Hand
3	XB-H-38-F	2	Grease Fitting	13	XA-01998	1	Bearing Plate – Left Hand
4*	XB-0011	2	Rubber Cushion	14	XB-H-38-A	4	90° Grease Fitting
4A**	XB-0012	2	Rubber Cushion	15	XB-H-38	4	Grease Fitting
5	XB-0009	2	Cushion	16	XA-01429	2	"L" Pin Subassembly
6	XA-1284-2	2	Washer	17	XA-01427	2	Lockout Stop
7	XB-01923	2	Spring	18	XB-382	2	Cotter Pin .19" x 1.25"
8	XA-39	1	Tie Bar	19	XB-847	2	Shackle Pin
9	XB-C-59	4	Hex Nut 1/2"-13	20	XA-0128-L	1	Dust Cover (optional)
10	XB-T-45-1	4	Lock Washer 1/2"	21	XA-0128-R	1	Dust Cover (optional)

* Bushings used in conjunction with FW8, FW35, FW2040, FW3540 or FW3640 series fifth wheels.

** Bushings used in conjunction with FW7040 series fifth wheels.



GO THE DISTANCE.

HOLLAND USA, INC.

1950 Industrial Blvd. • P.O. Box 425 • Muskegon, MI 49443-0425

Phone 888-396-6501 • Fax 800-356-3929

www.thehollandgroupinc.com

Copyright © February 2004 • The Holland Group, Inc.

Holland USA, Inc. Facilities:

Dumas, AR Warrenton, MO
Holland, MI Wylie, TX
Muskegon, MI

Ph: 888-396-6501 Fax: 800-356-3929

Holland International, Inc.

Holland, MI
Phone: 616-396-6501
Fax: 616-396-1511

Holland Hitch of Canada, Ltd.

Woodstock, Ontario • Canada
Phone: 519-537-3494
Fax: 800-565-7753

Holland Equipment, Ltd.

Norwich, Ontario • Canada
Phone: 519-863-3414
Fax: 519-863-2398

Holland Hitch of Canada, Ltd.

Surrey, British Columbia • Canada
Phone: 604-574-7491
Fax: 604-574-0244