



# FIFTH WHEELS

## REPAIR KIT INSTRUCTIONS



**RK-09063 for FW35-03344 Series**

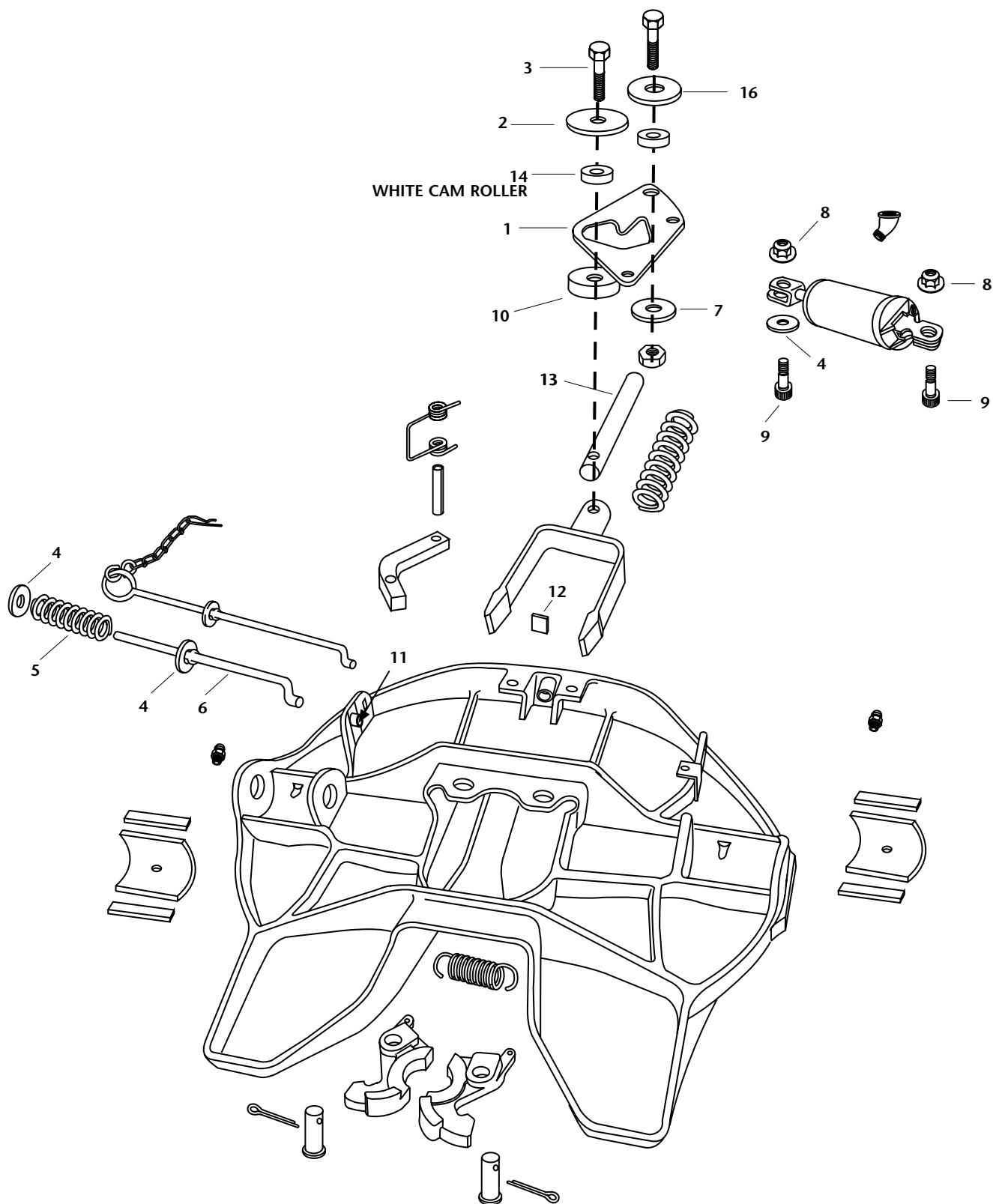
**Yard Spotter Fifth Wheels**



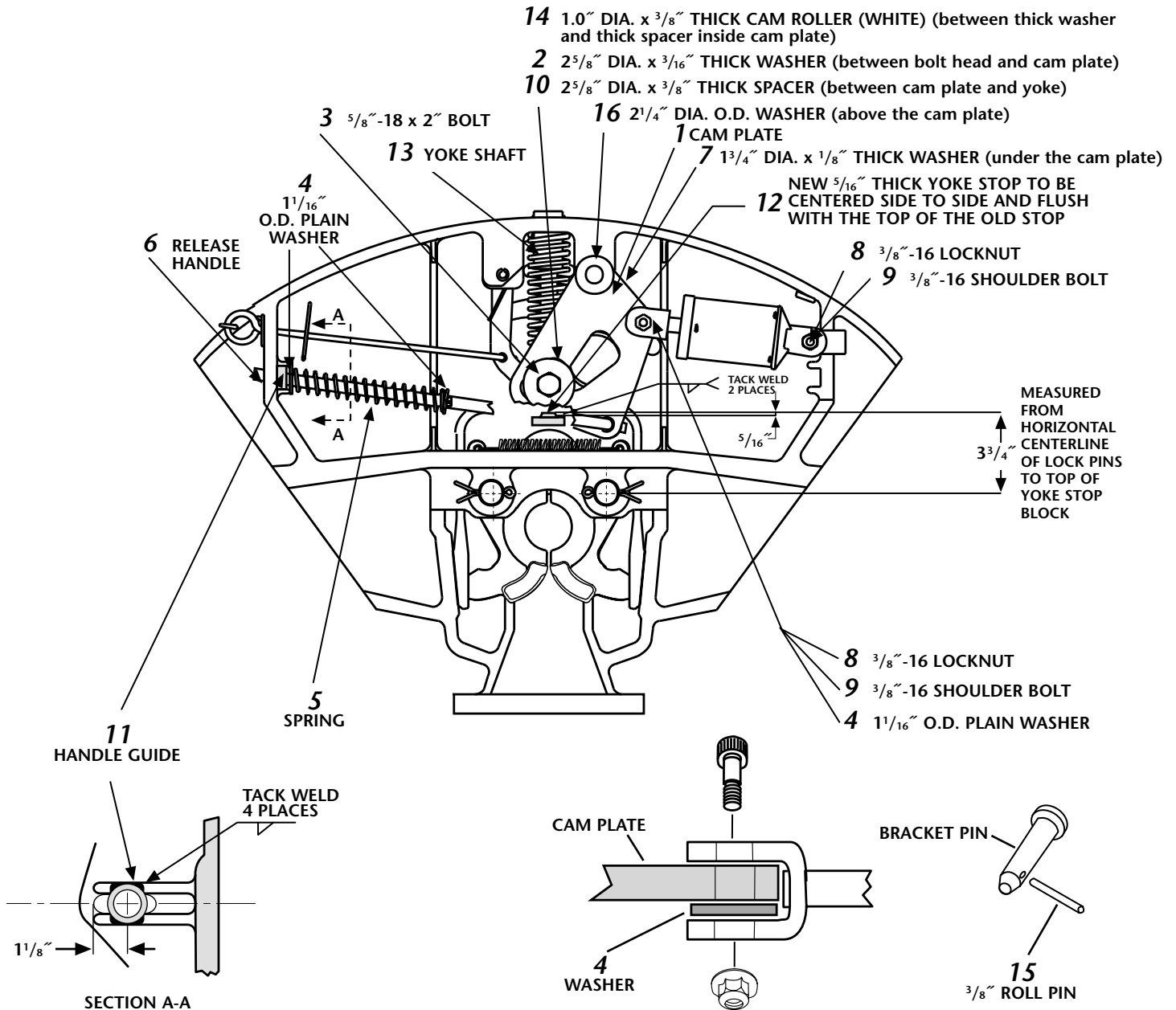
### **WARNING**

1. All fifth wheel maintenance must be performed by a qualified service technician using proper tools and safe procedures.
2. Use only genuine Holland parts.
3. Wear safety goggles during disassembly and assembly of the fifth wheel.
4. Keep fingers away from all potential pinch points in the fifth wheel.
5. Do not weld on this product other than as directed in this manual. Do not deviate from the instructions contained in this manual. Any changes or deviations from these procedures will void all warranties, express or implied, unless prior written consent is obtained from Holland.
6. Always verify proper operation and adjust the fifth wheel following the procedures contained in this manual before placing it back in service.

# PARTS EXPLOSION FOR RK-09063 REBUILD KIT



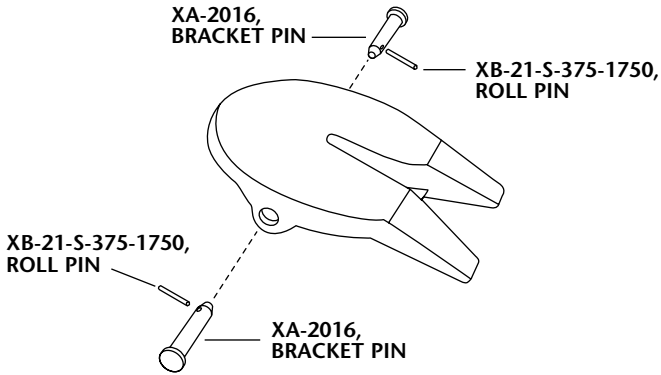
# RK-09063 PARTS SCHEMATIC AND DESCRIPTION



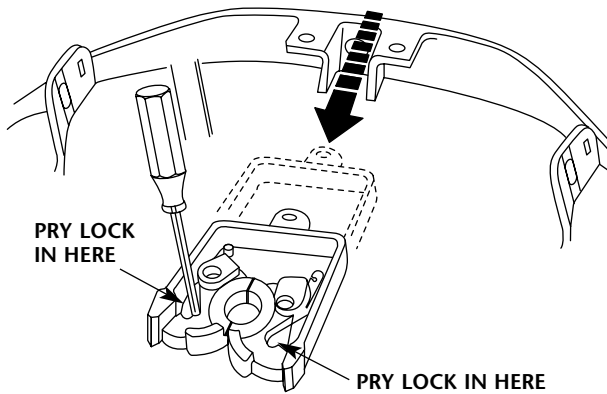
ITEM	PART NO.	QTY.	DESCRIPTION
1	XA-08988	1	Cam Plate
2	XB-07431	1	Washer (2 5/8" dia. x 3/16" thick)
3	XB-10035	1	Bolt (5/8"-18 x 2" HHCS)
4	XB-PW-1732-1-116	3	Washer (1 1/16" O.D.)
5	XB-07291	1	Spring, Compression
6	XA-09041	1	Release Handle
7	XB-08559	2	Washer (1 3/4" dia. x 1/8" thick)
8	XB-08987	2	Lock Nut (3/8"-16)
9	XB-08974	2	Shoulder Bolt (3/8"-16)
10	XA-09040	1	Cam Spacer
11	XA-09039	1	Handle Guide
12	XA-09043	1	Yoke Stop Block
13	XA-1706-1	1	Yoke Shaft
14	XA-1507-1	1	Roller, Cam (white)
15	XB-21-S-375-1750	2	Roll Pin (3/8")
16	XB-1030	1	Washer (2 1/4" O.D.)

## DISASSEMBLY

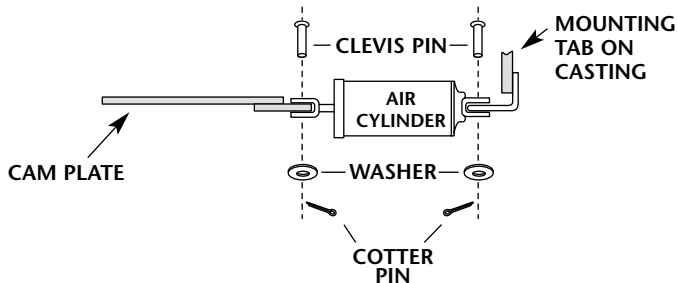
1. Disconnect the air line, remove the fifth wheel top plate from the mounting brackets, and place the fifth wheel upside down on a level working surface.



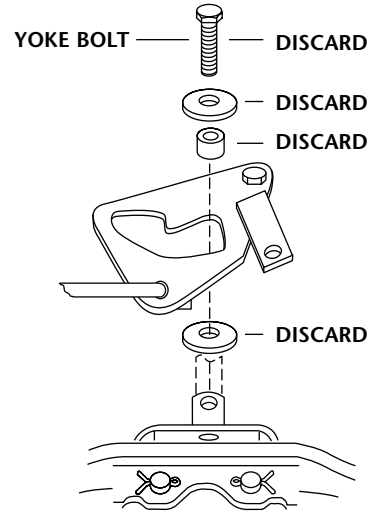
2. Close the locks by prying each of the locks as shown below until the yoke snaps closed.



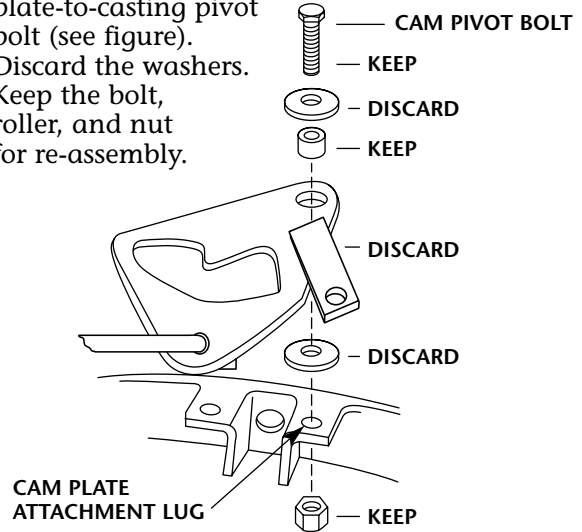
3. Disconnect the air cylinder from the cam plate and the mounting tab on the casting. Discard the clevis pins, washers, and cotter pins.



4. Remove the yoke bolt (see figure below). Discard the bolt, washers, and roller.

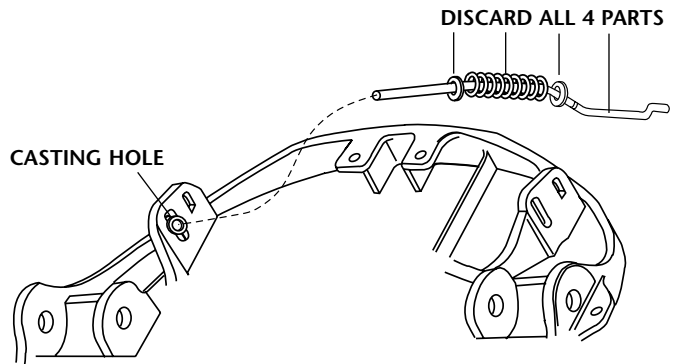


5. Remove the cam plate-to-casting pivot bolt (see figure). Discard the washers. Keep the bolt, roller, and nut for re-assembly.



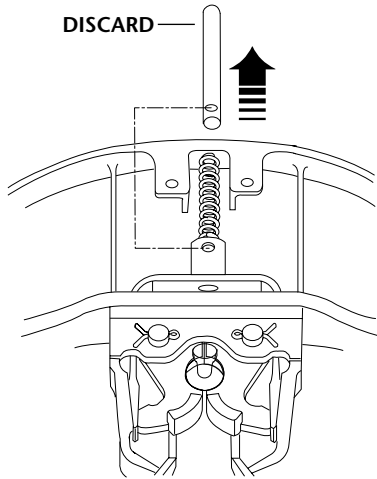
6. Lift the cam plate and disconnect it from the release handle rod. Discard the cam plate.

7. Remove the release handle rod and discard the handle rod, spring, and both washers.

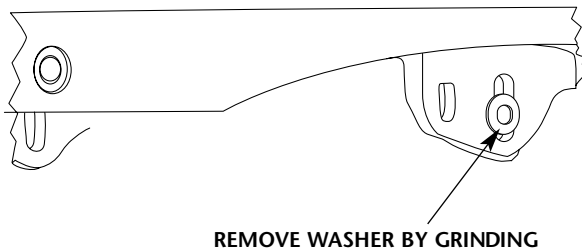


## DISASSEMBLY *continued*

8. Keeping the spring in place, slide the yoke shaft out through the front of the fifth wheel. Discard the yoke shaft.

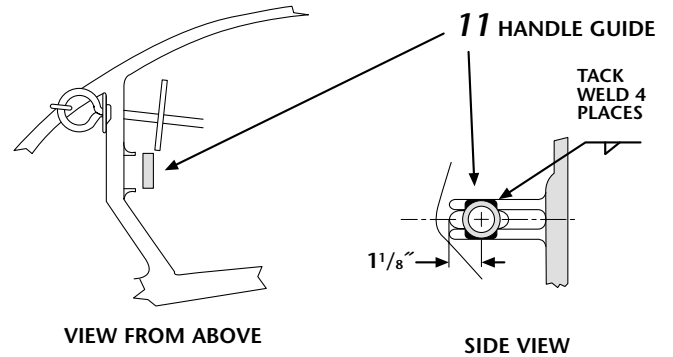


9. Remove the handle guide washer.

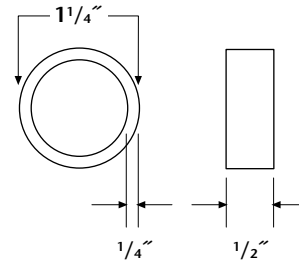


## REASSEMBLY

1. Position **NEW** handle guide (*Item 11*) on inside rib of fifth wheel and weld in place as shown. **NOTE:** Handle guide (*Item 11*) has a  $1\frac{1}{4}$ " diameter, a  $\frac{1}{4}$ " thick wall, and is  $\frac{1}{2}$ " thick.



**11** HANDLE GUIDE



**DO NOT USE  
THE WHITE  
CAM ROLLER  
(ITEM 14) AS A  
SUBSTITUTE  
FOR THE  
HANDLE GUIDE.**



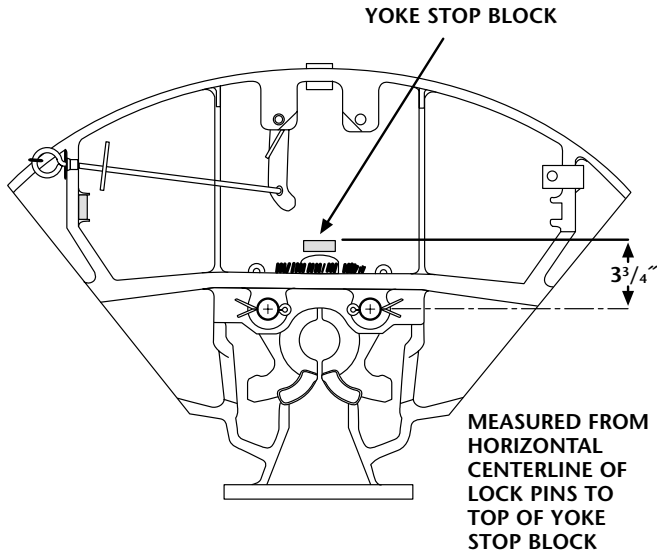
### **CAUTION**

When welding, use a procedure and filler metal which assures a sound, good quality weld which protects the welding operator and others.

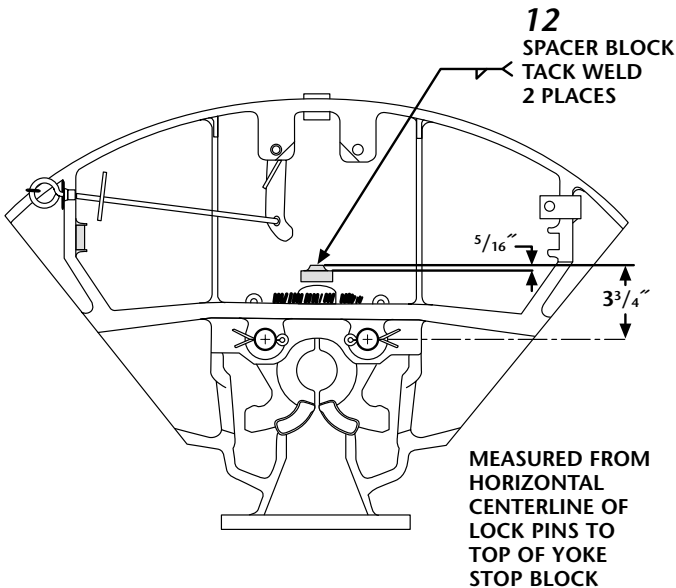
Overwelding may cause distortion or damage and underwelding may not develop sufficient strength. An AWS E70XX or E60XX filler metal, used in conjunction with either GMAW (gas shielded solid wire), FCAW (gas shielded flux core wire) or SMAW (AC or DC stick) is recommended.

**REASSEMBLY** *continued*

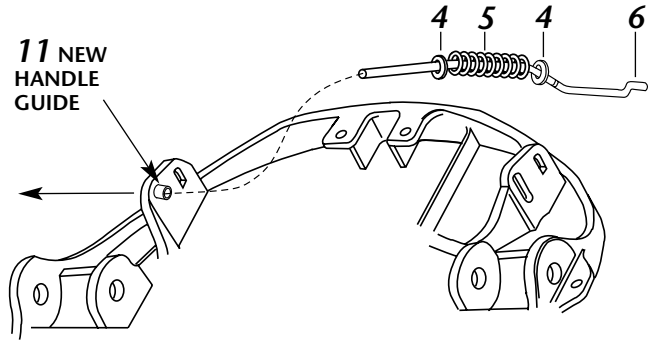
- Measure the distance between the yoke stop block and the centerline of the lock pins as shown below.  
If the distance is  $3\frac{3}{4}$ " , the yoke stop location is correct. Proceed to Step 4.



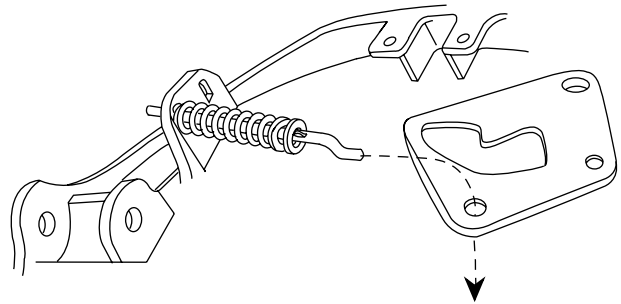
- If the distance is  $3\frac{1}{2}$ " or less, you must tack weld a new yoke stop (Item 12) in front of the existing stop as shown below. Center the stop side-to-side and flush with the existing stop so that it adds an additional  $\frac{5}{16}$ " thickness.



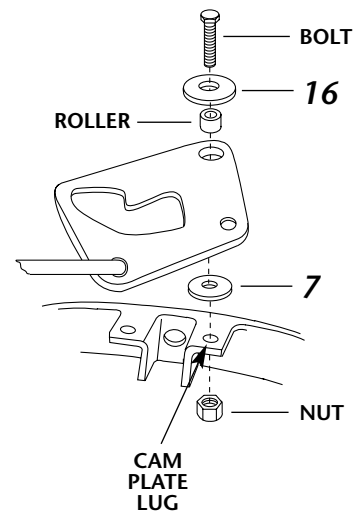
- Assemble washers (Item 4) and spring (Item 5) onto the NEW release handle rod (Item 6) as shown below. Then insert the straight end of the release handle rod through the NEW handle guide (Item 11).



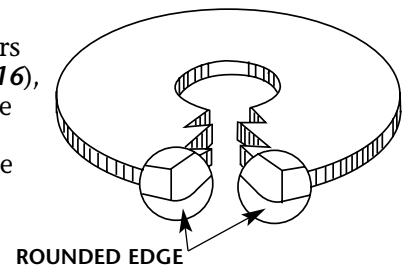
- Insert the "S" bend of the new release handle rod (Item 6) into the bottom hole in the NEW cam plate (Item 1) as shown.



- Position the NEW cam plate pivot hole over the casting lug as shown. Slide a NEW  $1\frac{3}{4}$ " washer (Item 7) between the cam plate and the casting lug with the rounded side of the washer facing the cam plate.

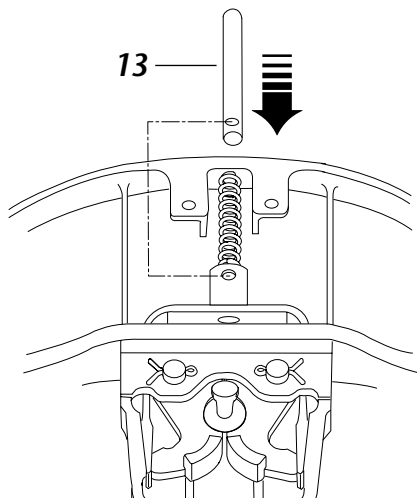


**NOTE:** When installing washers (Items 2, 7, and 16), the rounded edge of the washers **must** always face the cam plate.

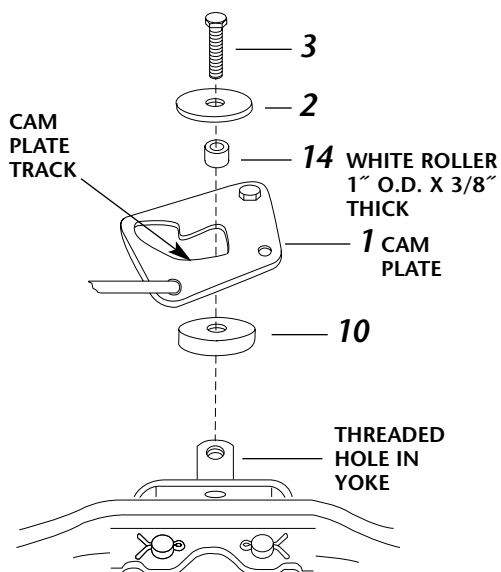


**REASSEMBLY** *continued*

7. Re-install the roller into the cam plate and place a **NEW** 2<sup>1</sup>/<sub>4</sub>" washer (*Item 16*) on top of the roller, with the rounded edge facing the cam plate.
8. Re-install the 1/2"-20 x 1<sup>3</sup>/<sub>4</sub>" bolt through the washers, roller, and top plate lug. Secure the bolt with the 1/2"-20 nut. Tighten securely, then check for free movement of the cam plate.
9. Slide the **NEW** yoke shaft (*Item 13*) into the casting, through the spring and into the yoke. Carefully align the recessed hole in the yoke shaft with the threaded hole in the yoke.



10. Slide the 2<sup>5</sup>/<sub>8</sub>" dia. x 3/8" thick spacer (*Item 10*) between the yoke and the cam plate.



11. Place the white roller (*Item 14*) into the cam plate track as shown. Then place a 2<sup>5</sup>/<sub>8</sub>" washer (*Item 2*) over the roller, with the rounded side of the washer facing the cam plate.

12. Check the alignment of the recessed hole in the yoke shaft. Then install the **NEW** 5/8"-18 x 2" bolt through the washers, roller, and cam plate and into the threaded hole in the yoke.

Make sure the bolt enters the recessed hole in the yoke shaft and tighten securely.

Check for adequate clearance between the bolt (*Item 3*) and washer (*Item 2*). The washer must spin freely.

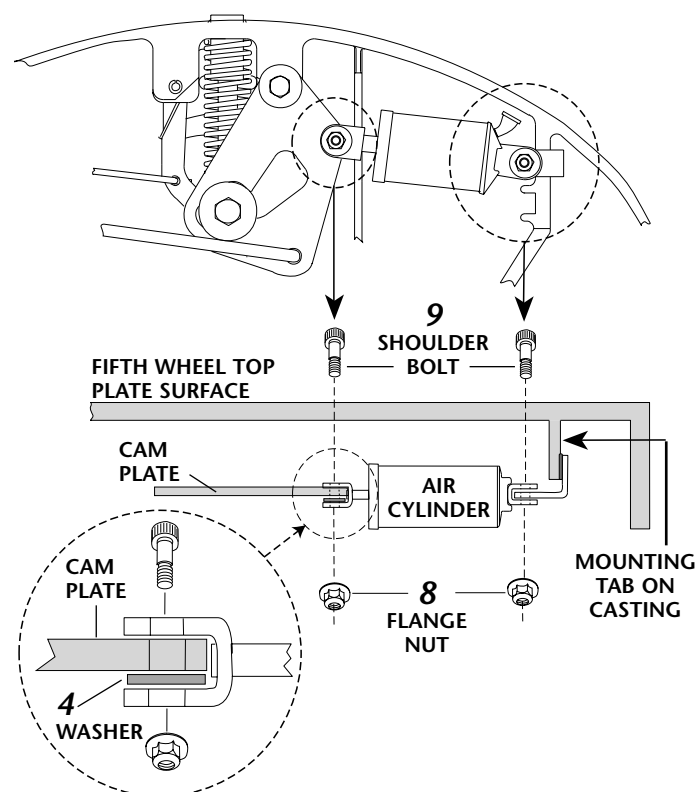
If it doesn't, remove bolt (*Item 3*), drop a small, flat washer into the bolt hole, put Loctite on the threads of bolt (*Item 3*), then install and tighten securely.

13. Re-attach the rod end of the air cylinder to the remaining hole in the cam plate using a **NEW** shoulder bolt (*Item 9*), **NEW** washer (*Item 4*), and **NEW** flanged lock nut (*Item 8*).

Make sure the head of the bolt is oriented as shown. Tighten the shoulder bolt to 45 ft-lbs. maximum torque.

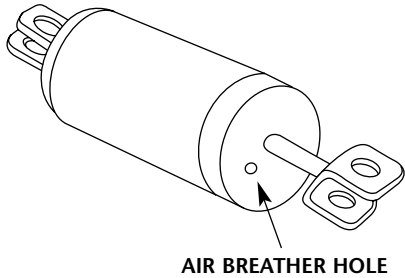
14. Re-attach the opposite end of the air cylinder to the mounting tab on the casting using a **NEW** shoulder bolt (*Item 9*), and **NEW** flanged lock nut (*Item 8*).

Tighten as described in Step 13.

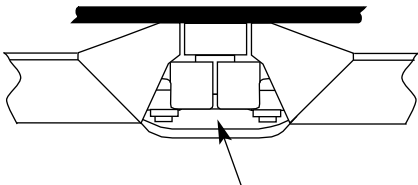


**REASSEMBLY** *continued*

15. Check the air lines for signs of chafing or other damage and make certain the air breather hole on the air cylinder end cap is open. Repair as needed.



16. Reinstall fifth wheel. Reattach air line.
17. Using a Holland lock tester, close the fifth wheel locks. Verify that the locks are properly closed around the kingpin. Activate the fifth wheel release switch and remove the lock tester. Repeat this step three times to verify proper operation.



The fifth wheel is now ready for operation.

**WARNING**

If the fifth wheel does not operate properly, **DO NOT USE IT!** Either disassemble and repeat rebuilding procedures or contact your nearest Holland representative for assistance. Locations and phone numbers can be found on Page 8. Never use a fifth wheel that does not operate properly.

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