



NUMBER: B400R1035-0

DATE: March 22, 1989

SUPERSEDES:

SERVICE BULLETIN

Effective Serial Number: 400-001-88 through 400-004-88 and 400-006-89

Ride: **GIANT GONDOLA WHEEL**

Subject: Hydraulic Cylinder Rework For
Adjustable Long Spreader Bars

It has come to the attention of CHANCE RIDES, INC. that the hydraulic cylinders in the adjustable long spreader bars can develop leaks around the barrel. A new barrel and related cylinder parts have been designed to eliminate this leakage.

ALL OWNERS OF **GIANT GONDOLA WHEEL** AMUSEMENT RIDES WITH THE ABOVE NOTED SERIAL NUMBERS ARE REQUIRED TO PERFORM THE REWORK DESCRIBED IN THIS BULLETIN.

Perform the rework using the installation instructions on the following pages of this bulletin and the parts provided. Return the attached Certification Of Compliance for the rework within fifteen (15) days from receipt of this bulletin.

NOTE: Ride serial number 400-001-88 is provided with kit number K400R1035-1. The other rides noted above are provided with kit number K400R1035-2.

All work must be performed by competent, qualified mechanics, capable of understanding the function of the parts and their proper installation. If there are any questions regarding the instructions or this rework, contact the CHANCE CUSTOMER SERVICE DEPARTMENT.

INSTALLATION INSTRUCTIONS

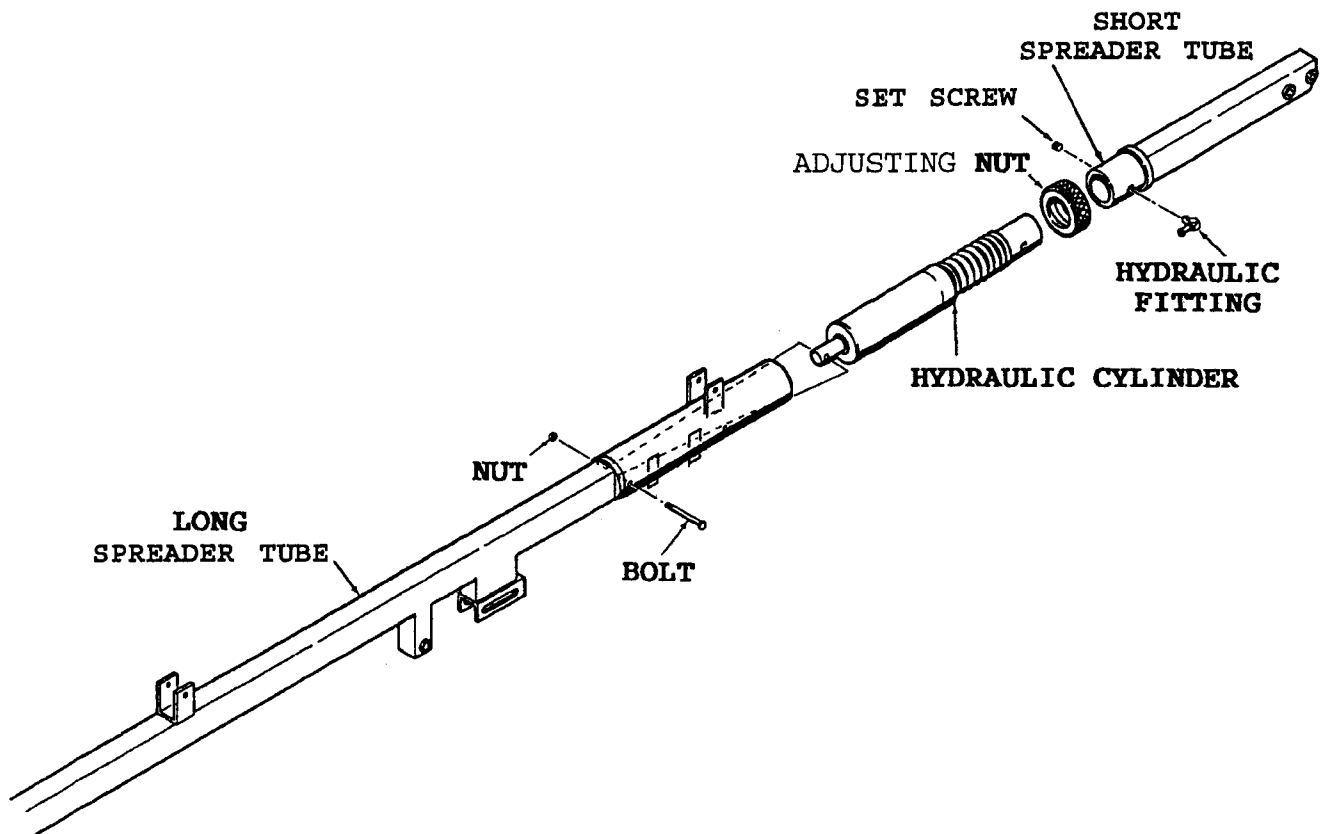
IMPORTANT: The following procedure requires that the ride be disassembled to the point that the adjustable long spreader bars are removed. Use the reverse of the "Set-Up Procedure" in the CHANCE Operation Manual.

NOTE: On ride serial number 400-001-88, perform only Steps #1 and #9, replacing the entire adjustable spreader bar.

1. With the adjustable spreader bars removed from the ride, remove the bolt and nut from the rod end of the cylinder. Remove the hydraulic fitting and loosen the set screw from the other end.
2. Remove the hydraulic cylinder from the spreader bar.

NOTE: Remove the adjusting nut from the old cylinder barrel and keep it to install on the new barrel.

3. Remove the snap ring and disassemble the cylinder. Leave the cylinder head (gland), piston rod and piston assembled. Save these parts and the snap ring. Discard the old barrel and seals, except for the small O-ring and the wiper seal.

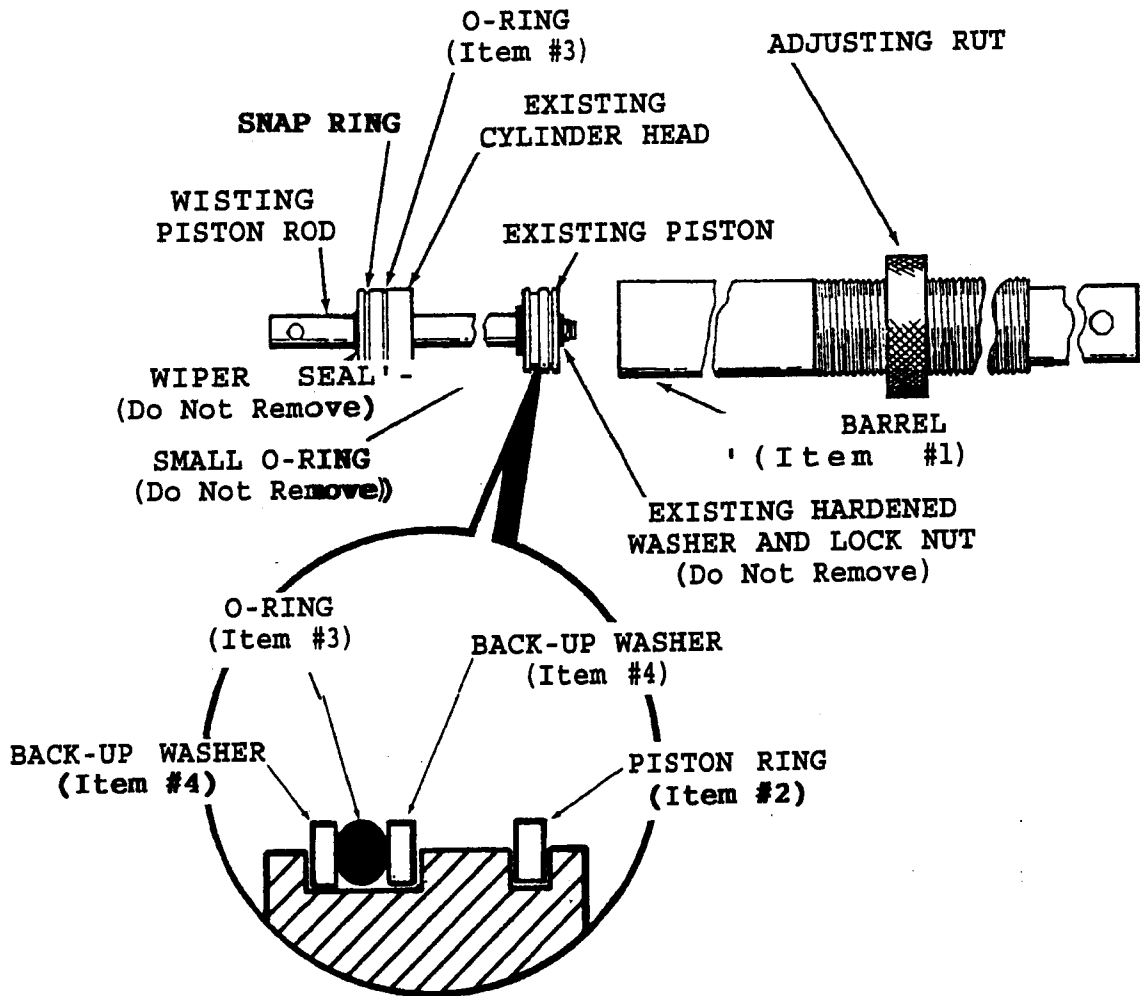


The following parts are included in Kit No. K400R1035-1:
 (Ride Serial Number 400-001-88 Only)

Item No.	Part Number	Description	Qty. Reqd.
--	377-0415800	HYDRAULIC SPREADER BAR (400-244-001) 2

The following parts are included in Kit No. K400R1035-2:
 (Ride Serial Numbers 400-002-88 through 400-004-88 and 400-006-89)

Item No.	Part Number	Description	Qty. Reqd.
1	377-2159800	BARREL - Spreader Cylinder (400-232-001)	-- 2
2	377-5286900	RING - Piston	-- 2
3	290-6114500	O-RING	-- 4
4	290-8556900	WASHER - Back-Up	-- 4



4. Install one O-ring (Item #3) on the existing cylinder head.

IMPORTANT: Lubricate all parts, including the seals, with petroleum jelly. Be careful not to damage the seals or scratch any parts when assembling them.

5. Assemble one O-ring (Item #3), two back-up washers (Item #4), and the piston ring (Item #2) on the piston.
6. Install the piston rod assembly into the barrel. Secure the cylinder head into the barrel with the existing snap ring.
7. Install the reworked cylinder into the spreader tubes. Install the bolt and nut to secure the rod end of the cylinder to the long spreader tube.
8. Align the port with the hole on the short spreader tube and install the hydraulic fitting. Tighten the set screw.
9. Install the spreader bar assembly using the "Set-Up Procedure" in the Operation Manual.