



MANITOU NORTH AMERICA, INC.

6401 IMPERIAL DRIVE
Waco, TX 76712-6803

NOTE: *Manitou Forklift Manuals are continually updated and subject to change without prior notice. If your Forklift Mast Model or parts are not found in this manual, please contact your dealer or the Manitou North America Parts Department for the latest information and parts availability.*

805348 SERIES

MSI50H
2-STAGE MAST

PARTS MANUAL

For Parts Orders contact your Manitou North America Dealer or call:
Manitou North America, Parts Dept. 800-425-3727 or (254) 799-0232
Parts Dept. Fax: (254) 867-6504 Website: www.manitou-na.com

GENERAL INFORMATION

The purpose of this Parts Manual is to provide illustrations for identifying and ordering Mast components/parts. Because of the multitude of Mast Models and components utilized, the illustrations provide a general description and therefore may not show the *exact* shape or detail of the components/parts represented.

The Mast parts are identified by an Item Number on the illustration or picture page. Find the Item Number for the part desired, then locate that Item Number under the "Items" column following the illustration. The Part Number will be located directly to the right of the Item Number. Also provided is a part Description, Quantity of parts required and the mast Model number.

Most important when ordering parts, is providing the correct serial number assigned to the mast at the factory. Keep accurate records of all modifications or improvements made to the mast after manufacture. (All Mast modifications must be authorized by Manitou North America, Inc.) Notify the Parts Dept. of any changes that may affect your parts order.

When ordering Mast parts or requesting technical information, the following numbers are required:

Mast Model Number: _____

Mast Serial Number: _____

For quick reference it is recommended these numbers be recorded as soon as possible.

The Mast Model Number is stamped on the Identification Plate located on the right side of the Outer Rail, at or above eye level.

MAST MODEL NUMBER DESCRIPTION (SAMPLE)

PART NO. OF MAST

PART NO. OF OPTIONAL EQUIPMENT

805069-04

805154

805070-2

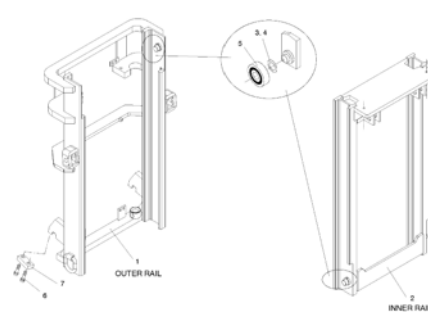
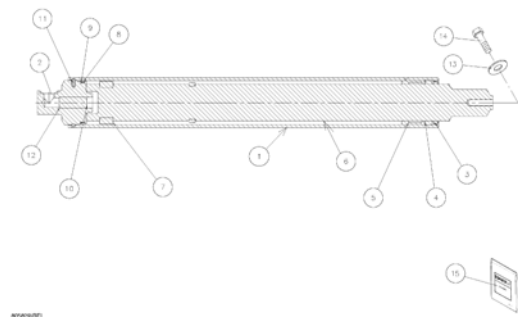
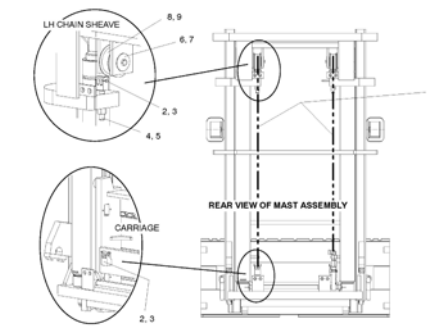
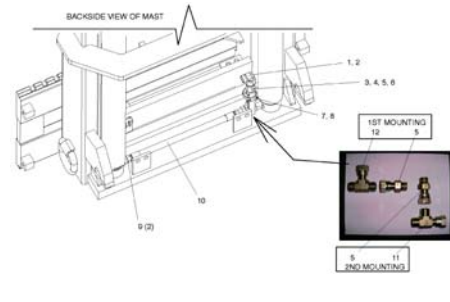
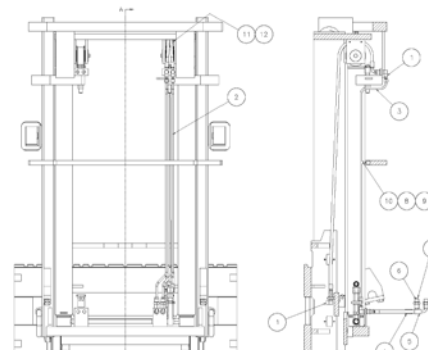
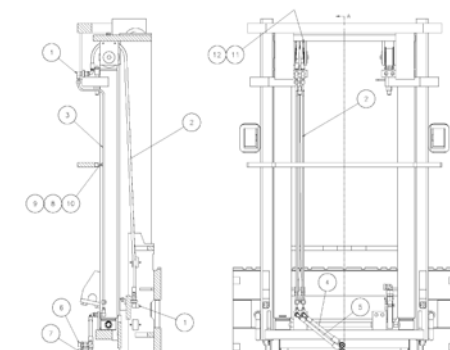
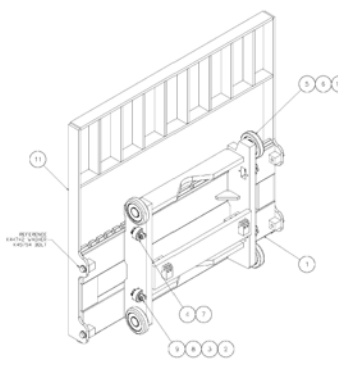
PART NO. OF CARRIAGE

NOTE: Additional information can be found stamped on the Mast Assembly, such as:

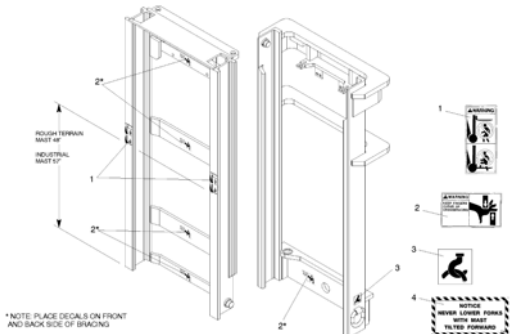
- 1.) Individual Rail Assemblies; check the top end of the Rail Assembly for the stamped part no..
- 2.) Carriage Assembly; check either end of the face bars for the stamped part no. and model no..
- 3.) Cylinder Assemblies; check along the upper portion of the barrel for the stamped part no..

This information may be required if your parts book is out-dated or incomplete.

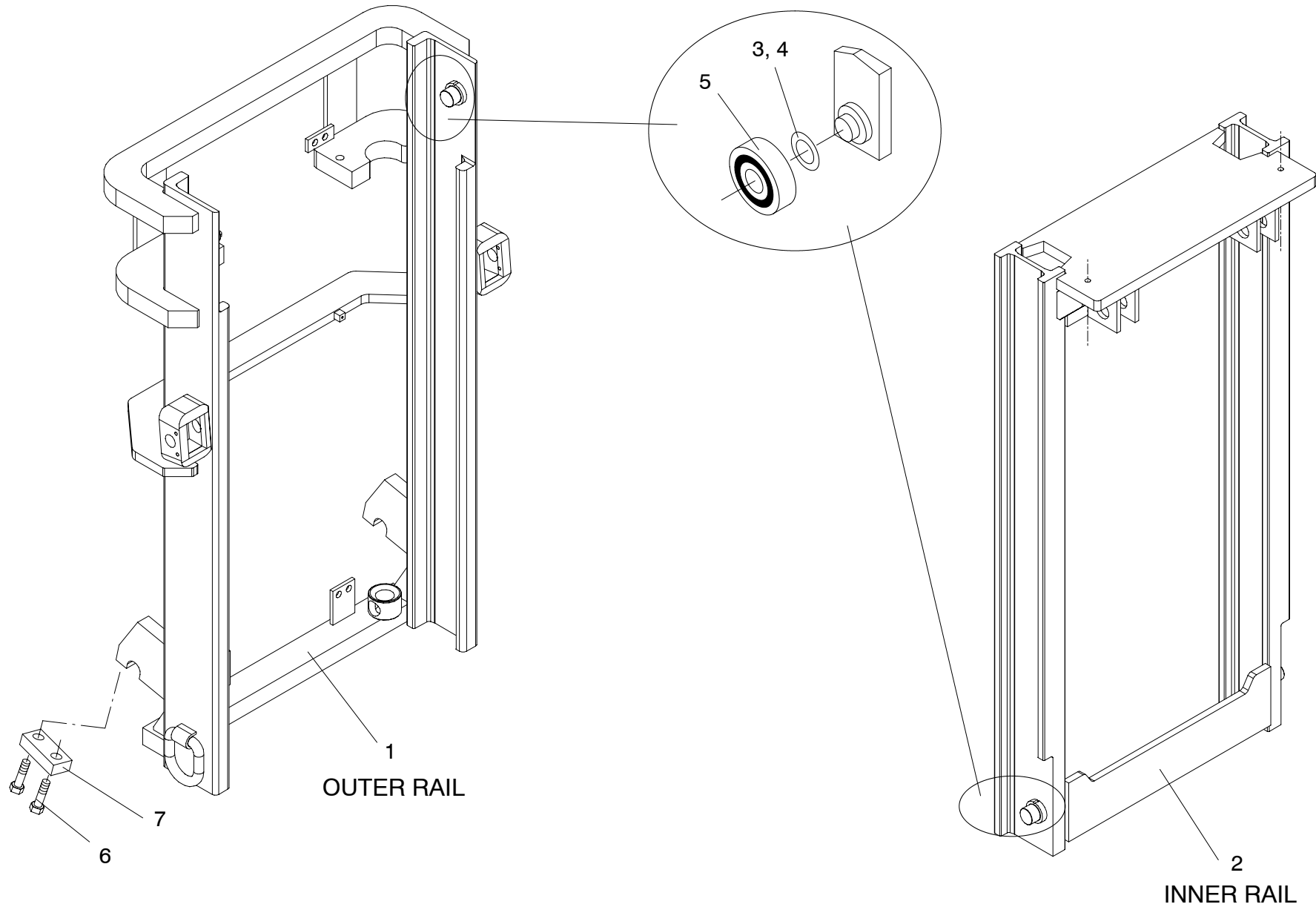
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<p>RAIL SYSTEM 1.00</p>	<p>LIFT CYLINDER 2.00</p>	<p>CHAIN SYSTEM 3.00</p>
		
<p>HYDRAULIC SYSTEM 4.00</p>	<p>HOSE KIT, RH 5.00</p>	<p>HOSE KIT, LH 6.00</p>
		
<p>CARRIAGE, ITA TYPE 7.00</p>		

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<p>PARTS LIST:</p> <ul style="list-style-type: none"> 1 - 496822 BOLZONI SIDESHIFTER, 60" ITA III 10K 1 - 800498 HOSE ASSEMBLY - HOSE 27 IN. LONG 1 - 800499 HOSE ASSEMBLY - HOSE 24 IN. LONG 2 - M0001183 ELBOW <p>OPTIONAL BOLZONI SIDESHIFTER, 60" ITA III 10K NOT SHOWN, FOR SIDESHIFTER SERVICE PARTS CONTACT MFR.</p> <p>-- SEE ID PLATE ON SIDESHIFTER --</p>	<p>PARTS LIST:</p> <ul style="list-style-type: none"> 1 - 806849 CASCADE FORK POSITIONER, 60" ITA III 10K 1 - 800498 HOSE ASSEMBLY - HOSE 27 IN. LONG 1 - 800499 HOSE ASSEMBLY - HOSE 24 IN. LONG 2 - M0001183 ELBOW <p>OPTIONAL CASCADE FORK POSITIONER, 60" ITA III 10K NOT SHOWN, FOR FORK POSITIONER SERVICE PARTS CONTACT MFR.</p> <p>-- SEE ID PLATE ON FORK POSITIONER --</p>	 <p>* NOTE: PLACE DECALS ON FRONT AND BACK SIDE OF BRACING</p> <p>NOTICE: NEVER LOWER FORKS WITH MAST TILTED FORWARD</p>			
805951 - SIDESHIFTER, 60 IN	8.00	806848 - FORK POSITIONER, 60 IN.	9.00	DECALS	10.00

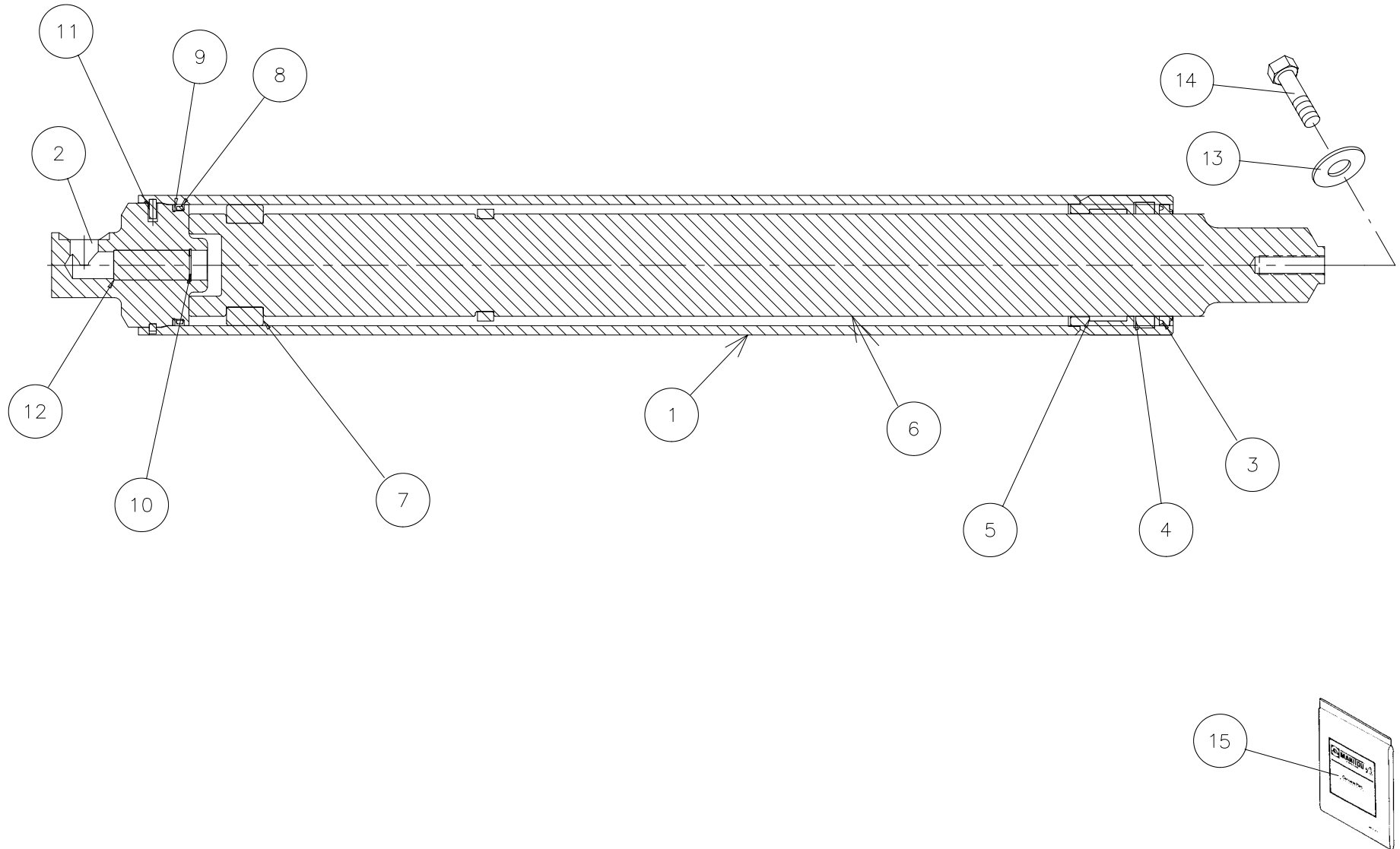
RAIL SYSTEM



			QTY/MODEL											
1/1			RAIL SYSTEM											
			1. 805348-02 2. 805348-03 3. 805348-04 4. 805348-05						5. 805348-06 6. 805348-07					
ITEM	PART NO.	DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
1	805333-4	Outer rail assembly			1									
1	805333-5	Outer rail assembly				1								
1	805333-6	Outer rail assembly					1							
1	805333-7	Outer rail assembly						1						
2	805324-4	Center rail assembly			1									
2	805324-5	Center rail assembly				1								
2	805324-6	Center rail assembly					1							
2	805324-7	Center rail assembly						1						
3	R2	Bearing, guide			4	4	4	4						
4	R22	Shim (0.015 in.)			5	5	5	5						
5	R426	Shim (0.060 in.)			16	16	16	16						
6	K45770	Bolt			4	4	4	4						
7	806302	Plate			2	2	2	2						

1.00

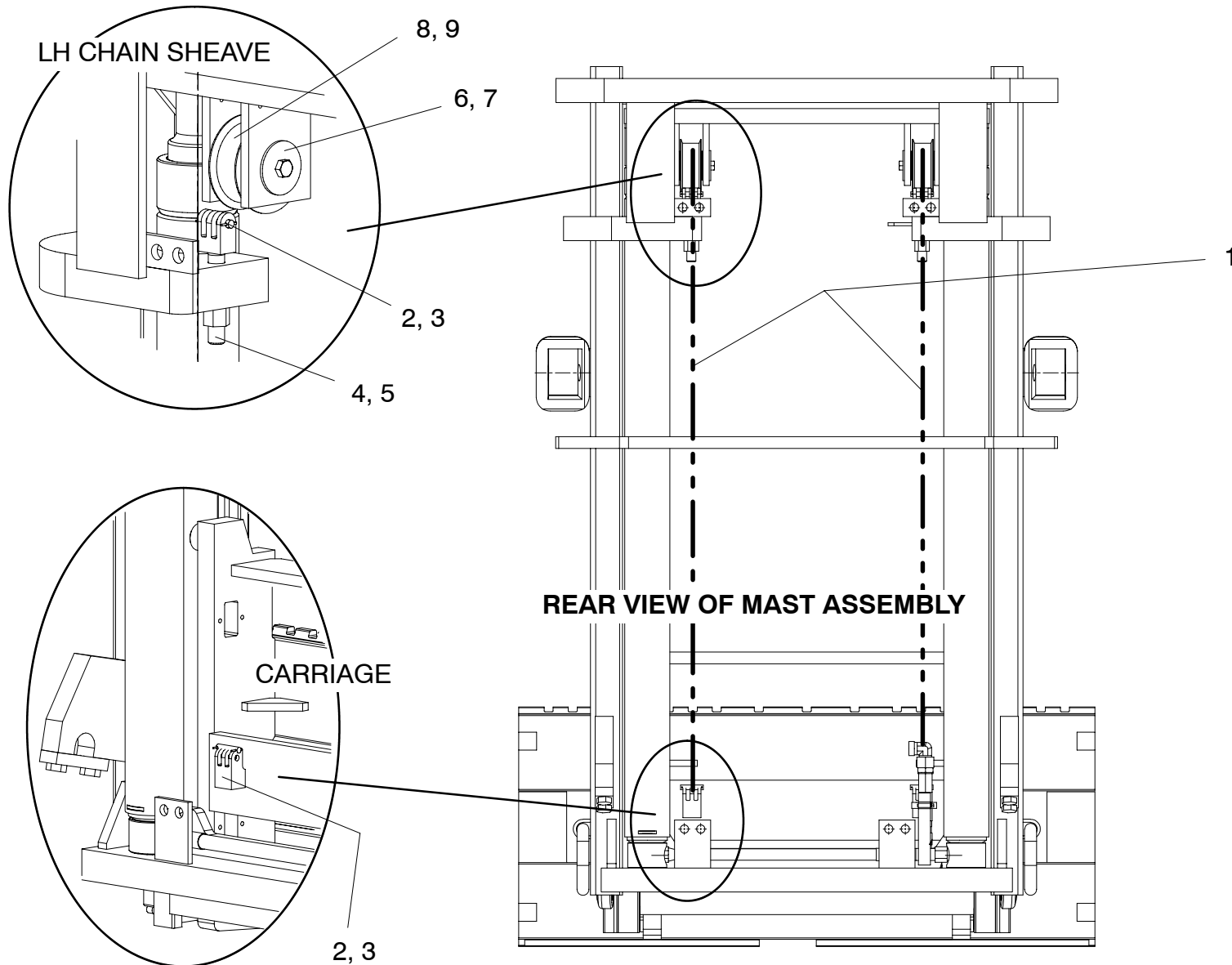
LIFT CYLINDER ASSEMBLY



			QTY/MODEL											
1/1			LIFT CYLINDER ASSEMBLY											
			1. 805348-02						5. 805348-06					
			2. 805348-03						6. 805348-07					
			3. 805348-04											
			4. 805348-05											
ITEM	PART NO.	DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
	805829-4	Cylinder, complete			2									
	805829-5	Cylinder, complete				2								
	805829-6	Cylinder, complete					2							
	805829-7	Cylinder, complete						2						
1	805830-4	Barrel assembly			1									
1	805830-5	Barrel assembly				1								
1	805830-6	Barrel assembly					1							
1	805830-7	Barrel assembly						1						
2	805833	Base plug			1	1	1	1						
3	805834	Wiper			1	1	1	1						
4	805835	Seal			1	1	1	1						
5	805836	Wear ring			1	1	1	1						
6	805862-4	Rod assembly			1									
6	805862-5	Rod assembly				1								
6	805862-6	Rod assembly					1							
6	805862-7	Rod assembly						1						
7	805864	Split ring			1	1	1	1						
8	K336	O-ring			1	1	1	1						
9	K8-336	Backup ring			1	1	1	1						
10	K97612	Ring			1	1	1	1						
11	R2211-5	Lock wire			1	1	1	1						
12	R5683	Flow regulator			1	1	1	1						
13	K34809	Washer			2	2	2	2						
14	K20548	Bolt			2	2	2	2						
15	805829K	Seal kit (Items 3, 4, 8 & 9)			1	1	1	1						

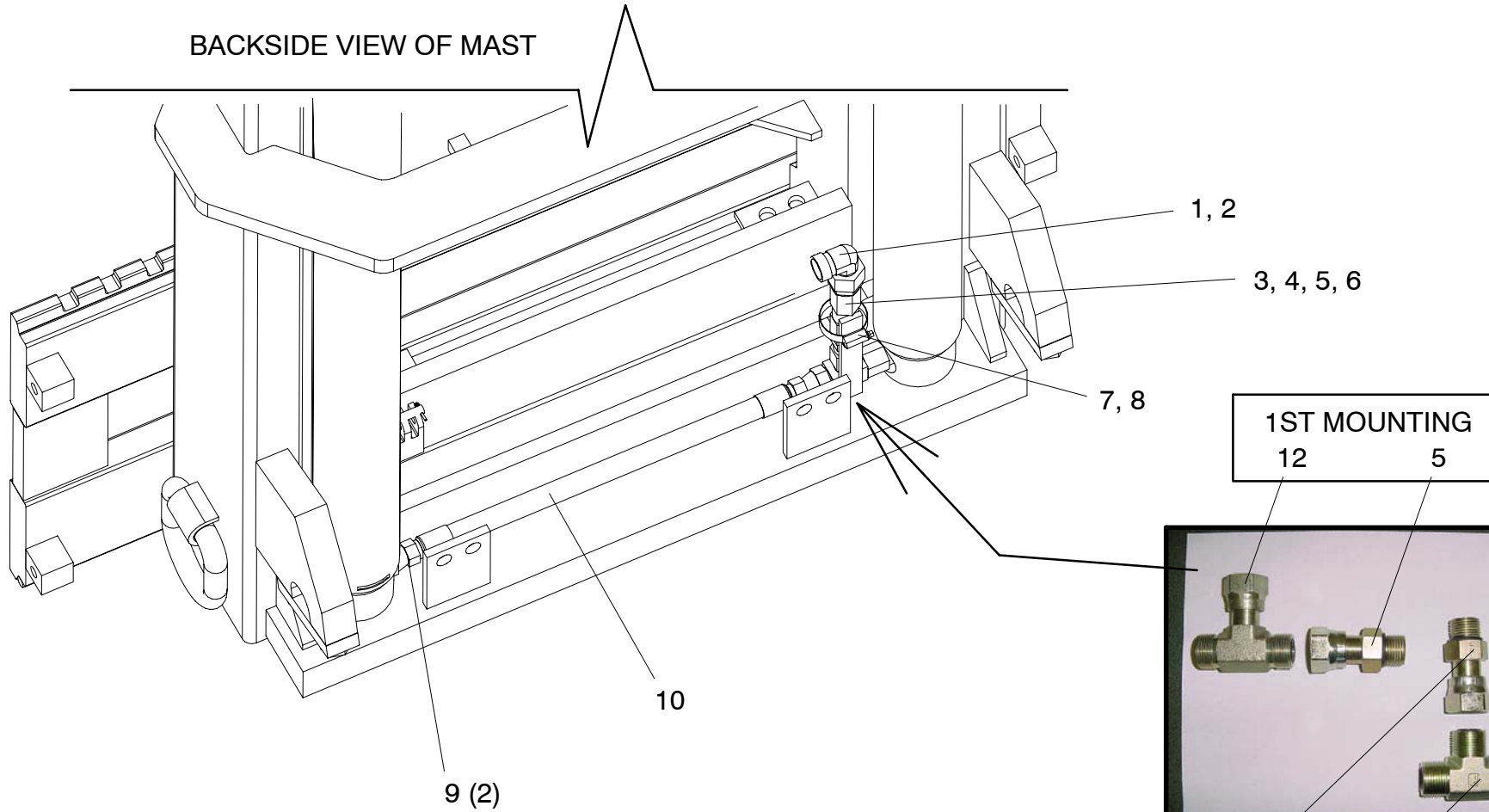
2.00

CHAIN SYSTEM

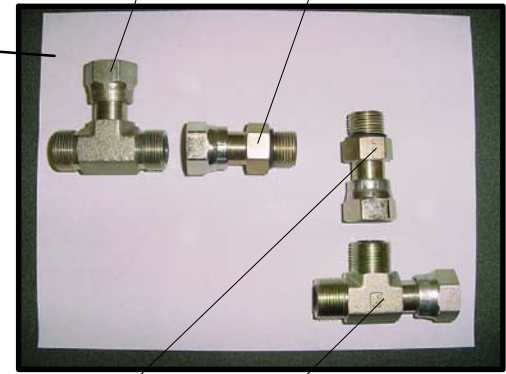


HYDRAULIC SYSTEM

BACKSIDE VIEW OF MAST



1ST MOUNTING
12 5

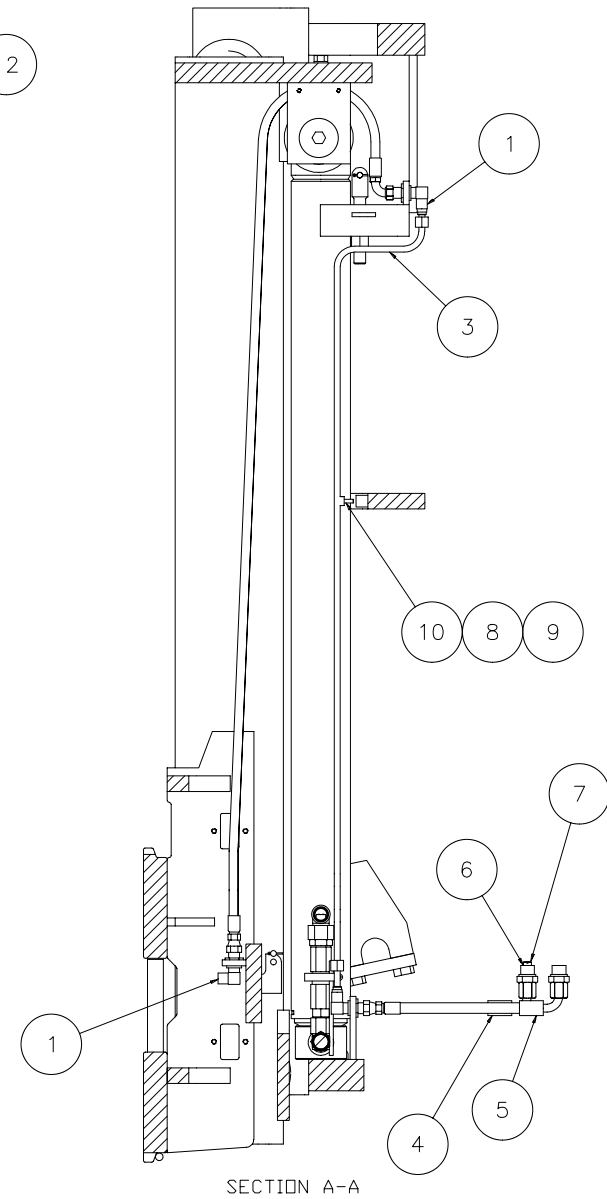
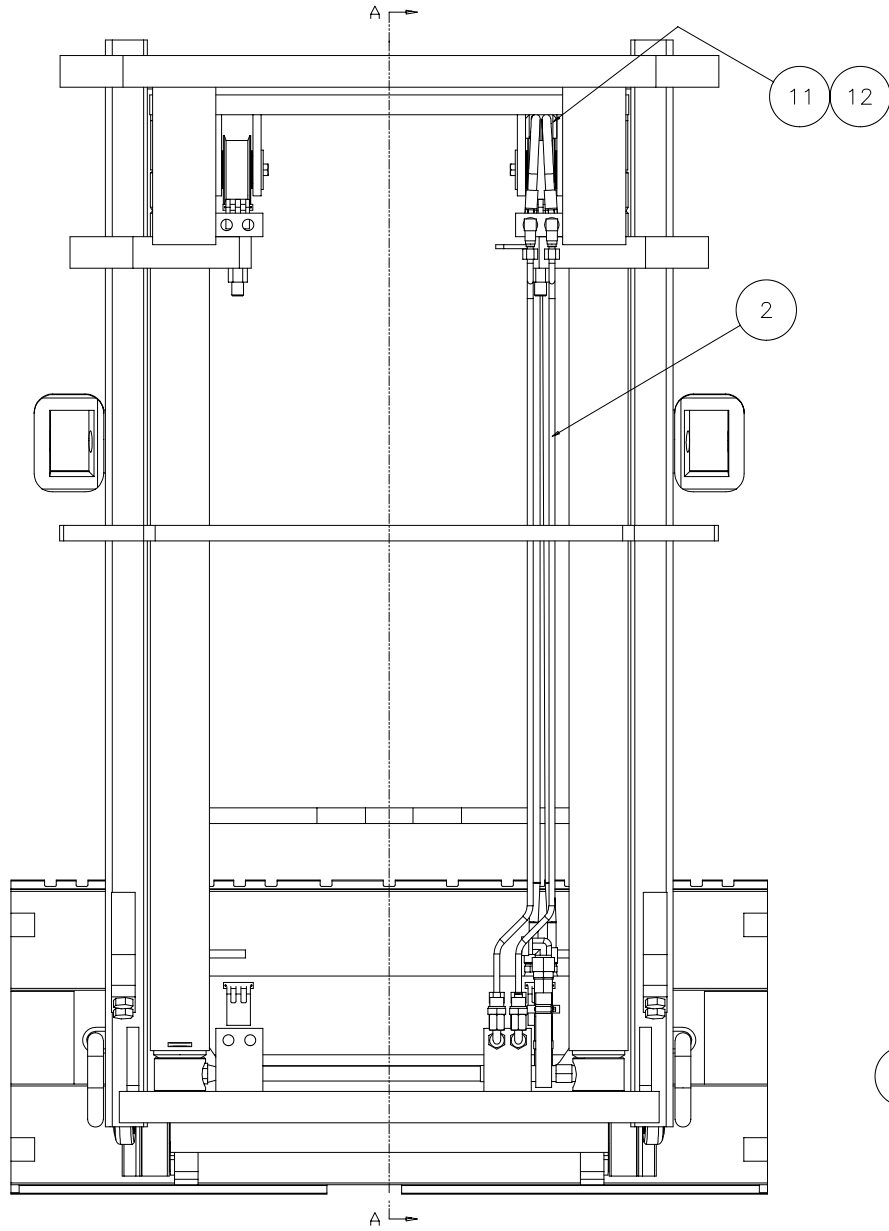


5 11
2ND MOUNTING

			QTY/MODEL											
1/1 HYDRAULIC SYSTEM			1. 805348-02						5. 805348-06					
			2. 805348-03						6. 805348-07					
			3. 805348-04											
			4. 805348-05											
ITEM	PART NO.	DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
1	217043	Fitting, elbow			1	1	1	1						
2	805352	Connector			1	1	1	1						
3	R5003	Body			1	1	1	1						
4	R5217	Flow regulator			1	1	1	1						
5	805622	Connector			1	1	1	1						
6	K97612	Ring			2	2	2	2						
7	R12734-9	Plate, welding certification required			1	1	1	1						
8	B2236-8	Hose clamp			1	1	1	1						
9	R19587	Connector			2	2	2	2						
10	805620	Hose assembly			1	1	1	1						
11	805276	Tee (2ND MOUNTING)			1	1	1	1						
12	R19831-3	Tee (1ST MOUNTING)			1	1	1	1						

4.00

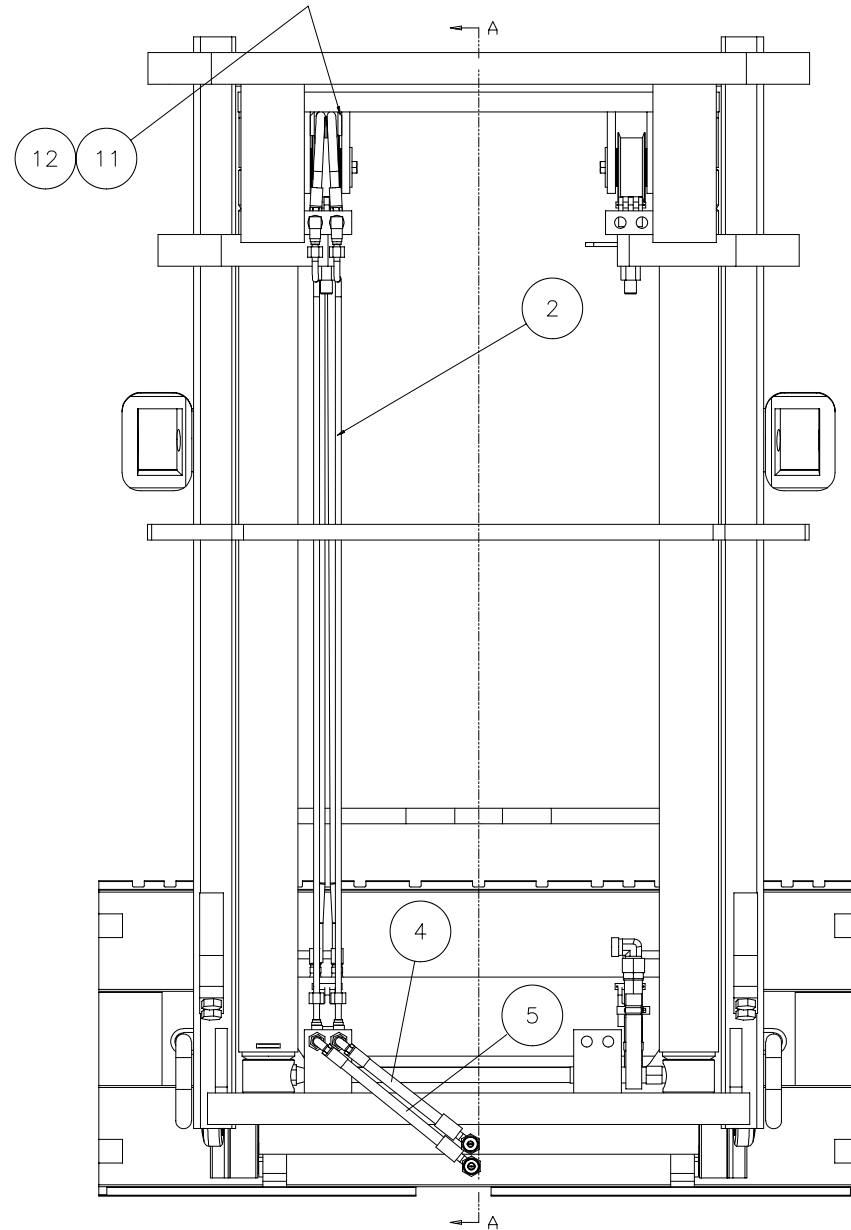
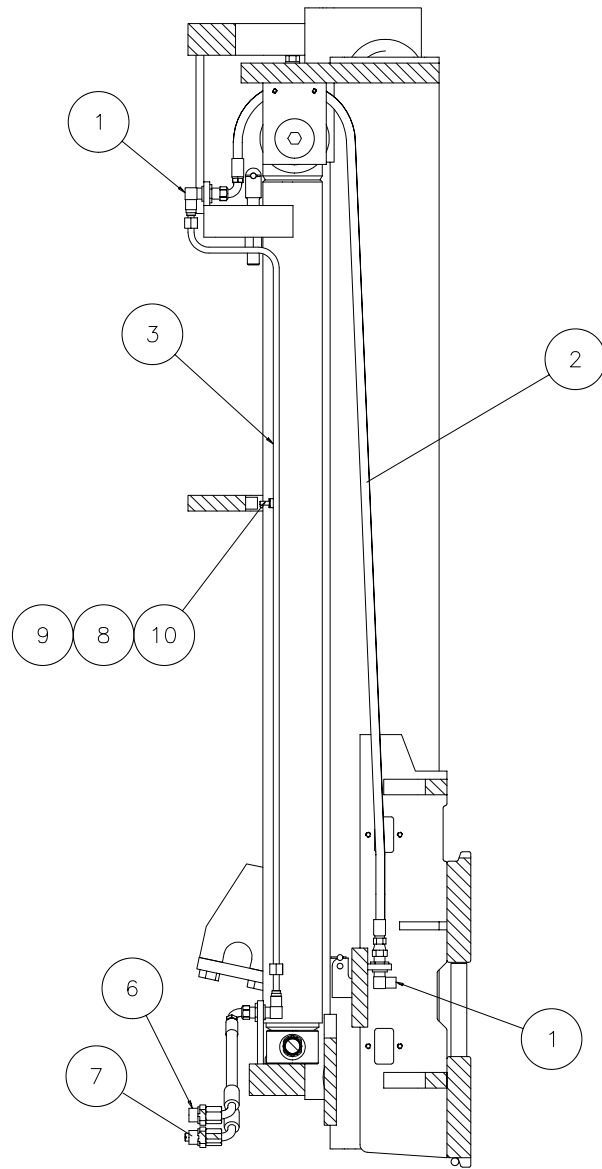
HOSE KIT, RH



			QTY/MODEL											
1/1			HOSE KIT, RH											
			1. 805348-02						4. 805348-05					
			2. 805348-03						5. 805348-06					
			3. 805348-04						6. 805348-07					
ITEM	PART NO.	DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
	805840-04	Hose kit, RH complete			1									
	805840-05	Hose kit, RH complete				1								
	805840-06	Hose kit, RH complete					1							
	805840-07	Hose kit, RH complete						1						
1	M0000075	Elbow, bulkhead			6	6	6	6						
2	805844-4	Hose assembly			1									
2	805844-5	Hose assembly				1								
2	805844-6	Hose assembly					1							
2	805844-7	Hose assembly						1						
3	806323-4	Tube assembly			2									
3	806323-5	Tube assembly				2								
3	806323-6	Tube assembly					2							
3	806323-7	Tube assembly						2						
4	806307	Hose assembly			1	1	1	1						
5	806308	Hose assembly			1	1	1	1						
6	803287	Connector, modified			2	2	2	2						
7	803390	Orfice			2	2	2	2						
8	86503	Clamp			2	2	2	2						
9	42316	Washer, M6			1	1	1	1						
10	46668	Bolt, M6			1	1	1	1						
11	806318	Guide			2	2	2	2						
12	61975	Screw, M4			4	4	4	4						

5.00

HOSE KIT, LH

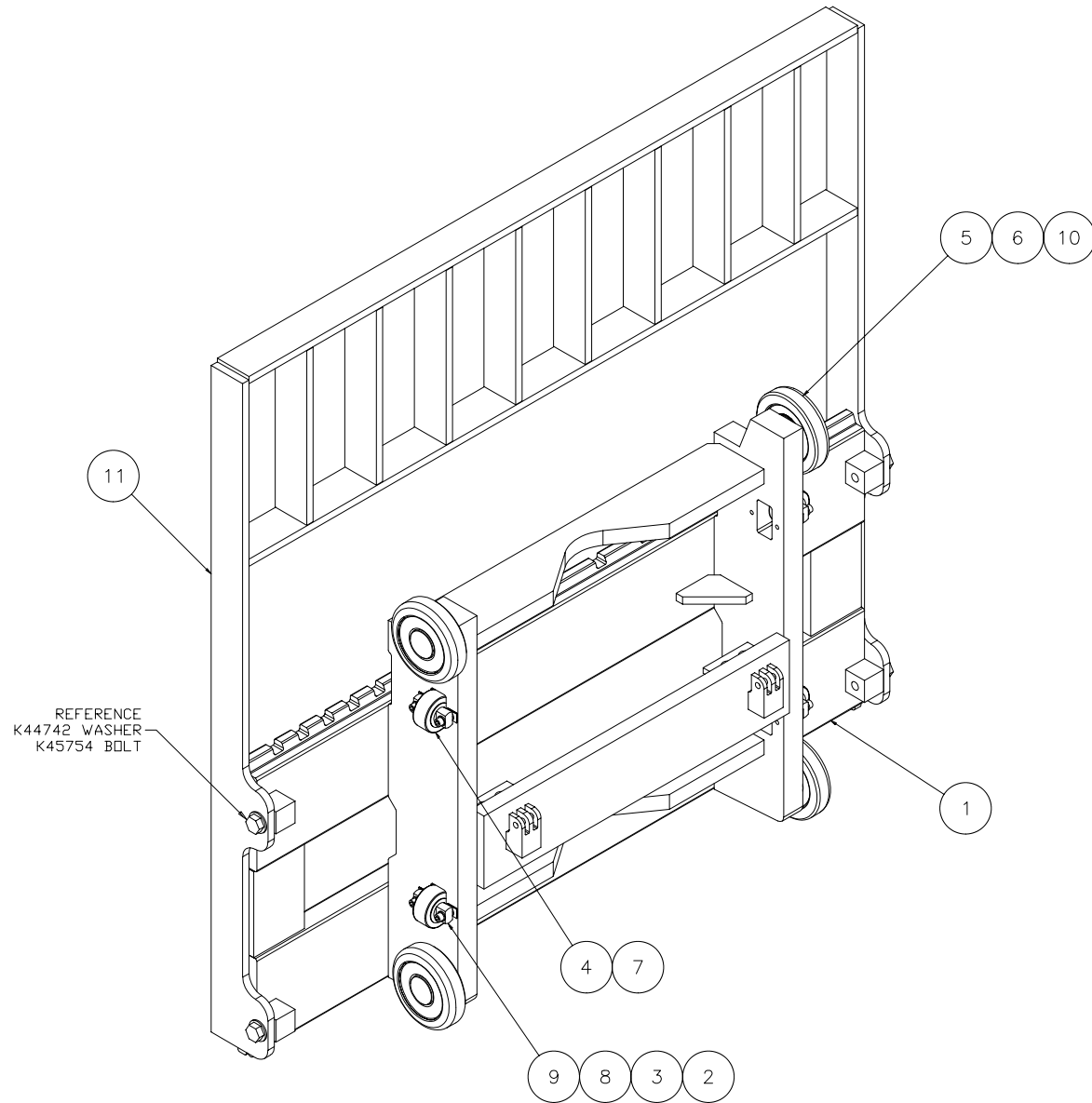


SECTION A-A

			QTY/MODEL											
1/1			HOSE KIT, LH											
			1. 805348-02						5. 805348-06					
			2. 805348-03						6. 805348-07					
			3. 805348-04											
			4. 805348-05											
ITEM	PART NO.	DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
	805841-04	Hose kit, LH complete			1									
	805841-05	Hose kit, LH complete				1								
	805841-06	Hose kit, LH complete					1							
	805841-07	Hose kit, LH complete						1						
1	M0000075	Elbow, bulkhead			1	1	1	1						
2	805844-4	Hose assembly			1									
2	805844-5	Hose assembly				1								
2	805844-6	Hose assembly					1							
2	805844-7	Hose assembly						1						
3	806321-4	Tube assembly			2									
3	806321-5	Tube assembly				2								
3	806321-6	Tube assembly					2							
3	806321-7	Tube assembly						2						
4	806311	Hose assembly			1	1	1	1						
5	806312	Hose assembly			1	1	1	1						
6	803287	Connector, modified			2	2	2	2						
7	803390	Orfice			2	2	2	2						
8	86503	Clamp			2	2	2	2						
9	42316	Washer, M6			1	1	1	1						
10	46668	Bolt, M6			1	1	1	1						
11	806318	Guide			2	2	2	2						
12	61975	Screw, M6			4	4	4	4						

6.00

CARRIAGE, ITA TYPE



			QTY/MODEL											
1/1			CARRIAGE, ITA TYPE						1. 805348-02 2. 805348-03 3. 805348-04 4. 805348-05 5. 805348-06 6. 805348-07					
ITEM	PART NO.	DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
	805353-48	Carriage assembly, ITA type, 48 in. complete	1	1	1	1	1	1						
	805353-60	Carriage assembly, ITA type, 60 in. complete	1	1	1	1	1	1						
	805353-72	Carriage assembly, ITA type, 72 in. complete	1	1	1	1	1	1						
1	805350-48	Carriage assembly	1	1	1	1	1	1						
1	805350-60	Carriage assembly	1	1	1	1	1	1						
1	805350-72	Carriage assembly	1	1	1	1	1	1						
2	K302257	Screw	8	8	8	8	8	8						
3	K34806	Washer	16	16	16	16	16	16						
4	R19745	Roller assembly	4	4	4	4	4	4						
5	R2	Bearing	4	4	4	4	4	4						
6	R22	Shim	4	4	4	4	4	4						
7	R2393	Washer, thrust	8	8	8	8	8	8						
8	R2394	Shim	24	24	24	24	24	24						
9	R4098	Shaft	4	4	4	4	4	4						
10	R426	Shim	4	4	4	4	4	4						
11	805440-48	LBR	1	1	1	1	1	1						
11	805440-60	LBR	1	1	1	1	1	1						
11	805440-72	LBR	1	1	1	1	1	1						

7.00

805951 - SIDESHIFTER, 60 IN.

PARTS LIST:

- 1 - 496822 BOLZONI SIDESHIFTER, 60" ITA III 10K
- 1 - 800498 HOSE ASSEMBLY - HOSE 27 IN. LONG
- 1 - 800499 HOSE ASSEMBLY - HOSE 24 IN. LONG
- 2 - M0001183 ELBOW

OPTIONAL BOLZONI SIDESHIFTER, 60" ITA III 10K NOT SHOWN,
FOR SIDESHIFTER SERVICE PARTS CONTACT MFR.

-- SEE ID PLATE ON SIDESHIFTER --

806848 - SIDESHIFTER, 60 IN.

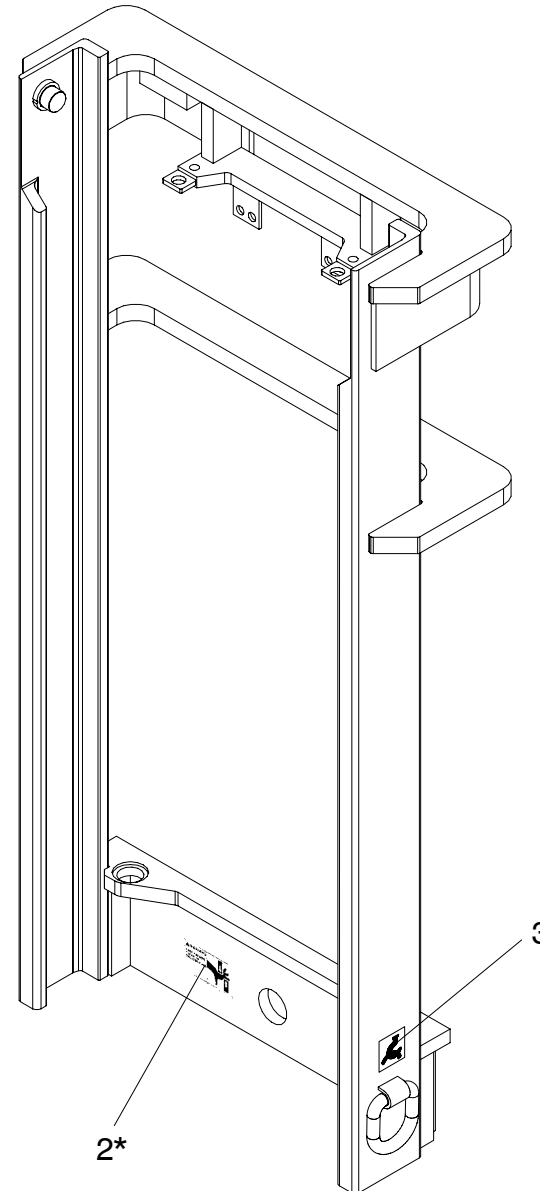
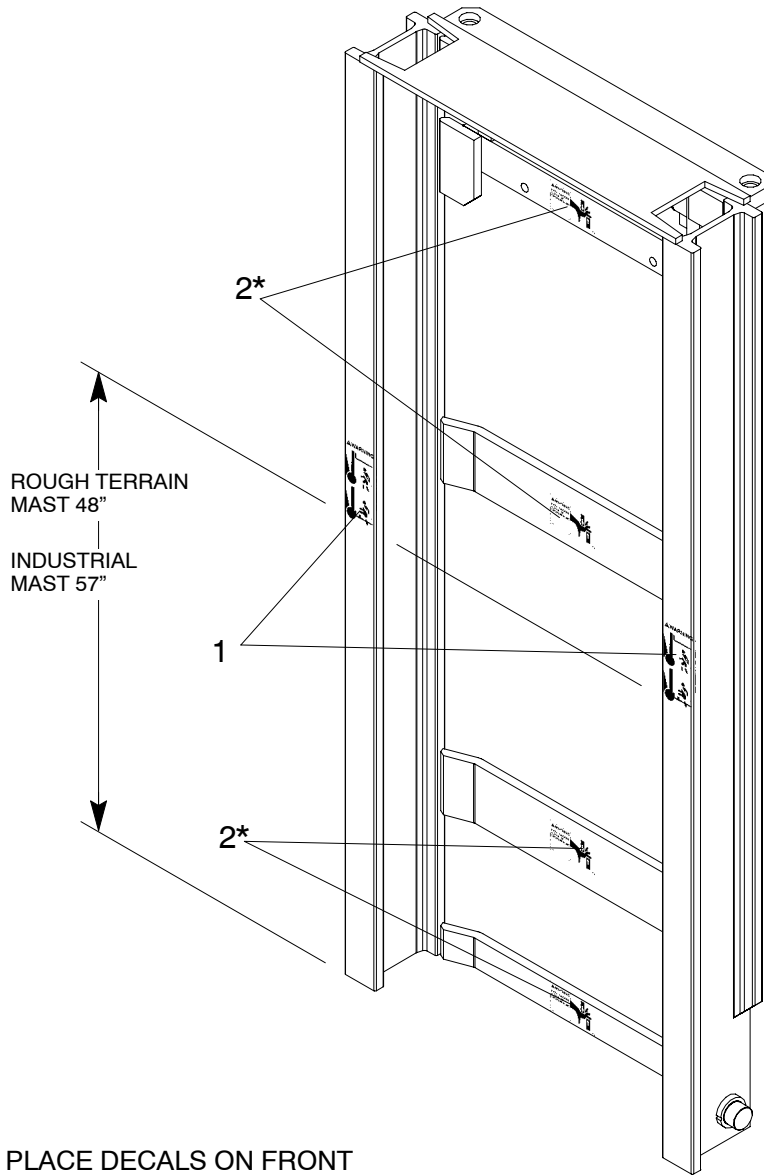
PARTS LIST:

- 1 - 806849 CASCADE FORK POSITIONER, 60" ITA III 10K
- 1 - 800498 HOSE ASSEMBLY - HOSE 27 IN. LONG
- 1 - 800499 HOSE ASSEMBLY - HOSE 24 IN. LONG
- 2 - M0001183 ELBOW

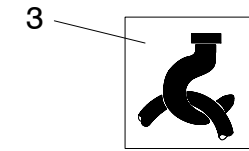
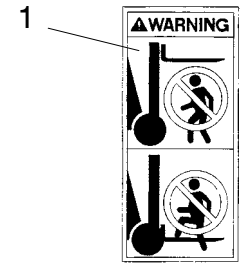
OPTIONAL CASCADE FORK POSITIONER, 60" ITA III 10K NOT SHOWN.
FOR FORK POSITIONER SERVICE PARTS CONTACT MFR.

-- SEE ID PLATE ON FORK POSITIONER --

DECALS



* NOTE: PLACE DECALS ON FRONT AND BACK SIDE OF BRACING



			QTY/MODEL											
1/1			DECALS											
			1. 805348-2						5. 805348-6					
			2. 805348-3						6. 805348-7					
			3. 805348-4											
			4. 805348-5											
ITEM	PART NO.	DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
1	B6108	Decal, fork safety, 2 3/4 x 8 1/2"	A/R	A/R	A/R	A/R	A/R	A/R						
1	426641	Decal, fork safety, 2 1/4 x 5"	A/R	A/R	A/R	A/R	A/R	A/R						
2	426642	Decal, pinch point, 1 1/2 x 2 3/4"	A/R	A/R	A/R	A/R	A/R	A/R						
2	426643	Decal, pinch point, 2 1/2 x 4 1/2"	A/R	A/R	A/R	A/R	A/R	A/R						
3	24653	Decal, hook here	A/R	A/R	A/R	A/R	A/R	A/R						
4	R40	Decal, never lower forks	A/R	A/R	A/R	A/R	A/R	A/R						

PARTS INDEX: (Part no., Item no., Page No.)

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