

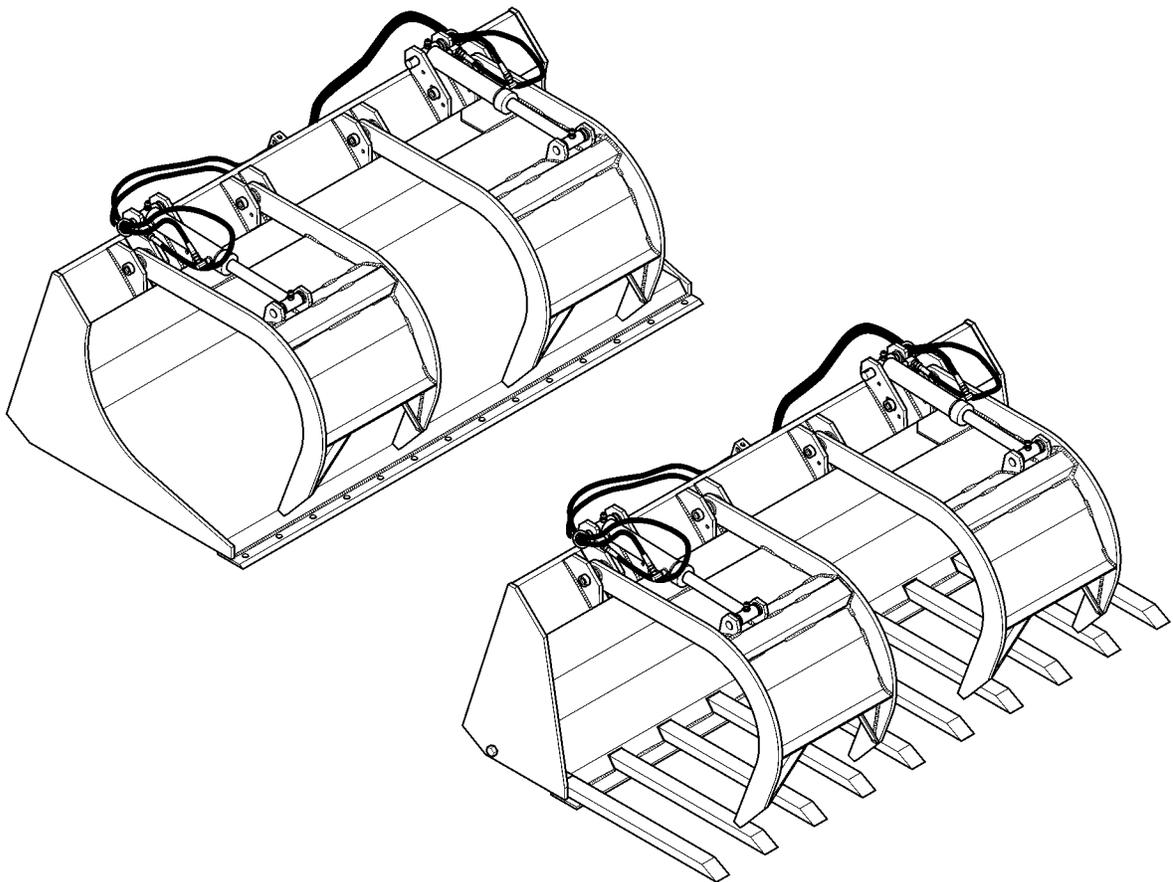
WIDE-JAW GRAPPLE

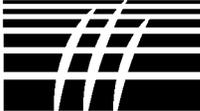
With Hydraulic O-Ring Connections

MODELS GB-60, GB-66, GB-72 & GB-78

CGF-60, CGF-66, CGF-72 & CGF-78

OPERATION & PARTS MANUAL



ATI 
CORPORATION

New Holland, PA 17557

Phone (717) 354-8721 • FAX (717) 354-2162

1-800-342-0905

www.preseeder.com

JUNE 2004

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New Holland, PA 17557 U.S.A.

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DISCLAIMER

THE INFORMATION IN THIS MANUAL IS PROVIDED TO PROMOTE THE SAFE USE OF, AND ASSIST THE OPERATOR IN ACHIEVING THE BEST PERFORMANCE FROM, WIDE-JAW GRAPPLE DESCRIBED HEREIN, FOR THEIR INTENDED APPLICATIONS.

Wide-Jaw Grapple



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SERIAL NUMBERS, PARTS & SERVICE

SERIAL NUMBER INFORMATION

It is very important that the correct serial number is provided when ordering parts. The serial number plate is located on the back left corner of the bucket or fork. Please mark the model and serial number of your attachment in the space provided below in case the plate on your attachment gets lost or damaged.

Model **Serial Number**

Dealer Name **Dealer Phone Number**

WHERE TO GET PARTS AND SERVICE

When replacement parts and service are required for your attachment, ATI Corporation recommends returning to the dealer from which the attachment was purchased. By going to the dealer, you are dealing with people that understand and know your attachment. Our dealers have the experience servicing these machines and stock the most common parts required to keep your attachment in top working condition.

NOTE:

ATI Corporation reserves the right to discontinue models at any time, change specifications, and improve design without notice and without incurring obligation on goods previously purchased and to discontinue supplying any part listed, when the demand does not warrant production.

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HOW TO ORDER PARTS

Parts lists contained in this book have been prepared to help you when ordering spare and/or replacement parts. Your order will be filled promptly and accurately when the following information is provide to your dealer:

1. Model and serial number of the unit. (This specifically identifies the equipment you have and permits us to verify the part numbers in your order.)
2. The parts list page number and catalog number. Include catalog revision number, if applicable.
3. The **Item** number for each part. **Item** numbers on the parts list page correspond with the numbers shown on the illustration.
4. **Part Number** as it appears in the parts list. In most cases this will be a nine-digit number; for example: 200-147-000.
5. The **Description** for the part as it appears on the parts list page.

The part ordered may have a new part number, or the part may have been replaced by a newer design with a different part number. In these cases your acknowledgement, shipping papers and invoices will be written listing the current part number first; the old part number you referred to will follow the part description.

Our purpose in doing this is to tell you that the parts are fully interchangeable. This will avoid any unnecessary correspondence or delay in processing your order. We suggest that you add any new number to your parts lists for future use.

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Wide-Jaw Grapple

SAFETY, INSTALLATION, OPERATION & MAINTENANCE

SAFETY

SAFETY is our first concern at ATI Corporation. Safety must also be first in the mind of the operator of the grapple bucket. Proper maintenance is necessary to complete the safety cycle.

Observe all safety rules, including:

- Operate at a safe distance from bystanders.
- Never perform maintenance or service work such as lubricating, inspecting, clearing debris, etc., while the loader engine is running. Secure the loader lift arm, shut off the engine and remove the key before performing these functions.



DO NOT EXCEED THE LOADER'S SAE OPERATING LOAD. See the operator's manual of the loader for load specifications. Remember to include the weight of the grapple bucket in the total weight to be lifted by the loader.

WEIGHT CHART

GRAPPLE BUCKETS		CONSTRUCTION GRAPPLE FORKS	
MODEL	WEIGHT	MODEL	WEIGHT
GB-60	780	CGF-60	890
GB-66	805	CGF-66	920
GB-72	840	CGF-72	950
GB-78	875	CGF-78	980

PRESSURIZED OIL LEAKS CAN PENETRATE YOUR SKIN. Before investigating or repairing leaks, shut off the loader engine and move the hydraulic control valve to open and close positions several times, to relieve pressure in the hydraulic lines.

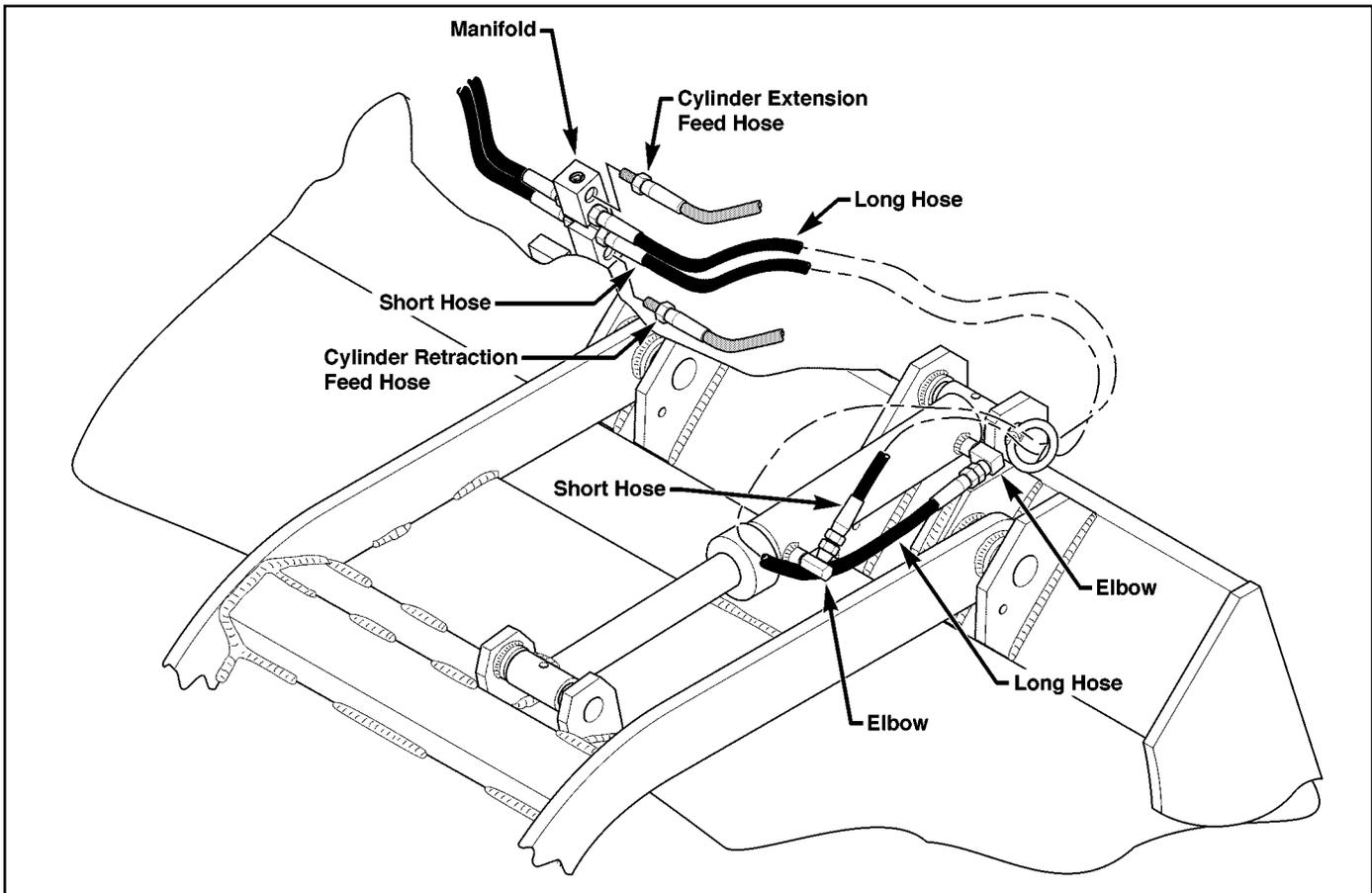


Figure 1. Hydraulic Hook-Up

Wide-Jaw Grapple



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SAFETY, INSTALLATION, OPERATION & MAINTENANCE

INSTALLATION

Please refer to loader operator's manual for attachment installation instructions.

MAINTENANCE

- Lubricate all grease fittings every ten (10) hours of operation.
- Check all hydraulic hoses frequently for leaks or damage.
- Replace defective hoses before operating the grapple.
- Check all pivot pins and fasteners; replace them as needed.
- Remember that well-maintained equipment is safer, will perform better, and provide longer service life!

HYDRAULIC HOOK-UP

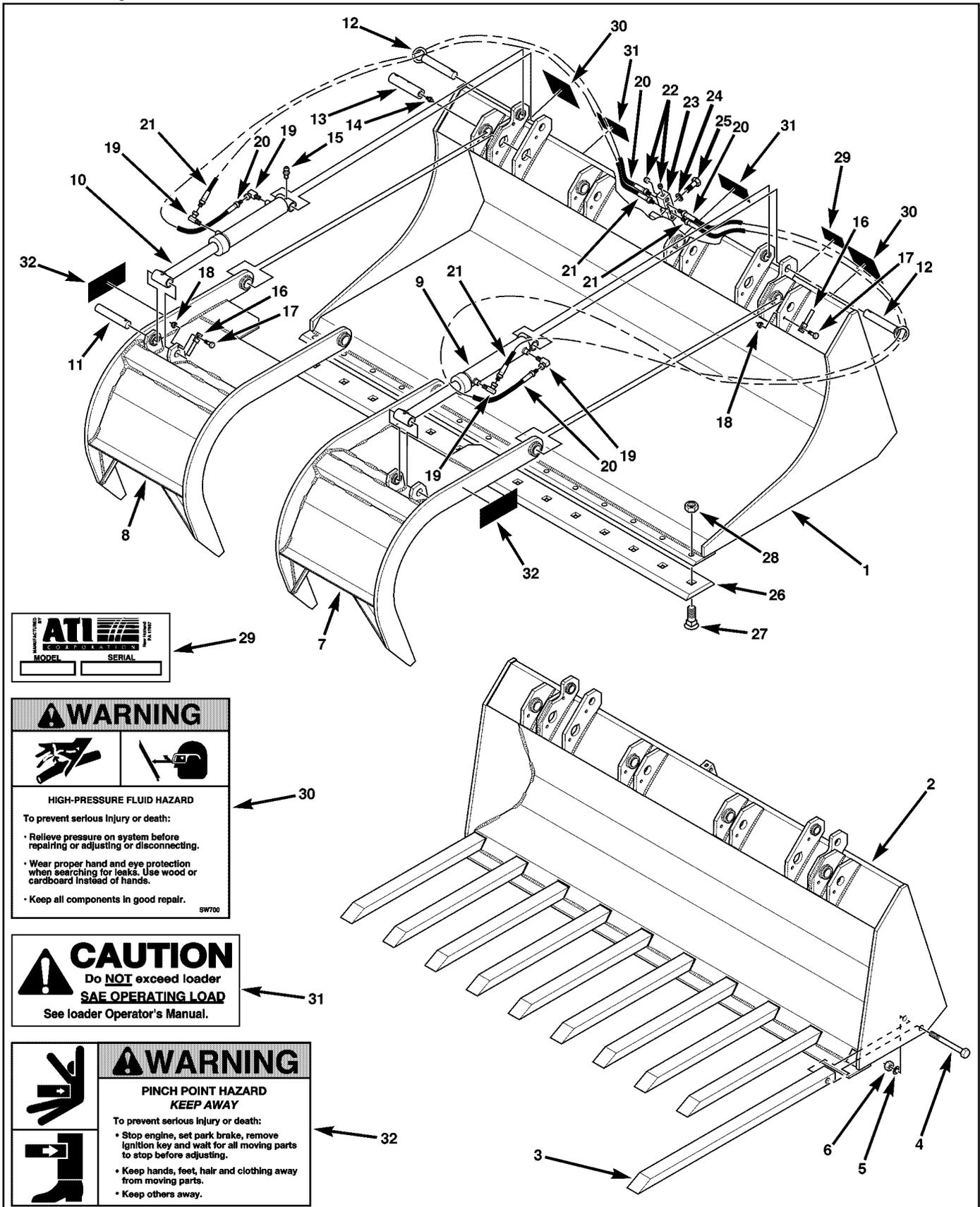
- The cylinder extension and retraction feed hoses join the manifold at their indicated positions as shown in Figure 1. The thread size in the manifold is -4 (7/16"-20UNF) O-Ring.
- These hoses may be moved to the right side of the manifold by moving the plugs to the left side.
- ATI Corporation does not supply the hydraulic feed hoses. See your local dealer for the length and size of the hydraulic feed hoses and quick disconnect couplers that are appropriate for your loader.



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Wide-Jaw Grapple PARTS LIST

Figure 2. Bucket, Grapple Hooks & Related Parts




 MODEL _____ SERIAL _____

WARNING



HIGH-PRESSURE FLUID HAZARD

To prevent serious injury or death:

- Relieve pressure on system before repairing or adjusting or disconnecting.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.

SW700

CAUTION

Do **NOT** exceed loader **SAE OPERATING LOAD**

See loader Operator's Manual.

WARNING

PINCH POINT HAZARD
KEEP AWAY

To prevent serious injury or death:

- Stop engine, set park brake, remove ignition key and wait for all moving parts to stop before adjusting.
- Keep hands, feet, hair and clothing away from moving parts.
- Keep others away.

Wide-Jaw Grapple PARTS LIST



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Figure 2. Bucket, Grapple Hooks & Related Parts

Item	Part No.	Qty	Description
1	300-001-000	1	Bucket, Grapple, GB-60
	300-002-000	1	Bucket, Grapple, GB-66
	300-003-000	1	Bucket, Grapple, GB-72
	300-004-000	1	Bucket, Grapple, GB-78
2	300-020-000	1	Fork, Construction Grapple, CGF-60
	300-021-000	1	Fork, Construction Grapple, CGF-66
	300-022-000	1	Fork, Construction Grapple, CGF-72
	300-023-000	1	Fork, Construction Grapple, CGF-78
3	001-001-005	AR	Tines
4	LP	AR	Bolt, Hex Head, 1/2"-13UNC x 3" Long
5	LP	AR	Washer, Lock, 1/2"
6	LP	AR	Nut, Hex, 1/2"-13UNC
7	300-101-000	1	Hook, Grapple, Left Side
8	300-102-000	1	Hook, Grapple, Right Side
9	000-166-056	1	Cylinder Assembly, Left Side, 2-1/4" Bore x 6" Stroke (See Breakdown)
10	000-166-057	1	Cylinder Assembly, Right Side, 2-1/4" Bore x 6" Stroke (See Breakdown)
11	000-161-052	2	Pin, 1" Dia. x 5-1/2" Long
12	000-161-049	4	Pin, 1" Dia. x 5-1/2" Long, With Ring
13	000-161-048	4	Pin, 1-1/4" Dia. x 5-1/4" Long
14	LP	4	Fitting, Lube, 1/4"-28UNF
15	LP	4	Fitting, Lube, 3/16" Drive
16	000-161-024	8	Pin, Retainer, 3/8" x 3-1/4" Long
17	LP	8	Bolt, Hex Head, 5/16"-18UNC x 1-1/4" Long
18	LP	8	Nut, Lock Nylon Insert, 5/16"-18UNC
19	000-166-048	4	Elbow, 4MJ x 4MB, 90°
20	000-166-051	2	Hose, Hydraulic, 1/4" x 4FJX x 4MB x 51" Long, GB-60, CGF-60
	000-166-052	2	Hose, Hydraulic, 1/4" x 4FJX x 4MB x 53" Long, GB-66, GB-72, CGF-66, CGF-72 GB-78, CGF-78
21	000-166-053	2	Hose, Hydraulic, 1/4" x 4FJX x 4MB x 37" Long, GB-60, CGF-60
	000-166-054	2	Hose, Hydraulic, 1/4" x 4FJX x 4MB x 39" Long, GB-78, CGF-78
	000-166-272	2	Hose, Hydraulic, 1/4" x 4FJX x 4MB x 41" Long, GB-78, CGF-78
22	000-166-061	4	Plug, Hex Socket, 4MB
23	000-166-055	1	Manifold
24	LP	1	Washer, Lock, 3/8"
25	LP	1	Bolt, Hex Head, 3/8"-16UNC x 1-1/4" Long
26	000-190-135	1	Edge, Cutting, DBF, 61-7/8", Optional (GB-60), Includes Items 27 & 28
	000-190-136	1	Edge, Cutting, DBF, 67-7/8", Optional (GB-66), Includes Items 27 & 28
	000-190-137	1	Edge, Cutting, DBF, 73-7/8", Optional (GB-72), Includes Items 27 & 28
	000-190-138	1	Edge, Cutting, DBF, 79-7/8", Optional (GB-78), Includes Items 27 & 28
27	000-150-262	AR	Bolt, Plug, Grade 8, 5/8"-11UNC x 2" Long
28	000-158-139	AR	Nut, Hex, Lock, Grade 8, 5/8"-11UNC
29	000-186-035	1	Plate, Serial, Adhesive Back
30	000-186-041	2	Decal, Warning, High-Pressure Fluid Hazard
31	000-186-023	2	Decal, Caution
32	000-186-057	2	Decal, Warning (Pinch Point)
			BH-Bulkhead MP-Male Pipe FP-Female Pipe FPX-Female Pipe Swivel MB-Male O-Ring Boss FB-Female O-Ring Boss MJ-Male JIC FJ-Female JIC FJX-Female JIC Swivel

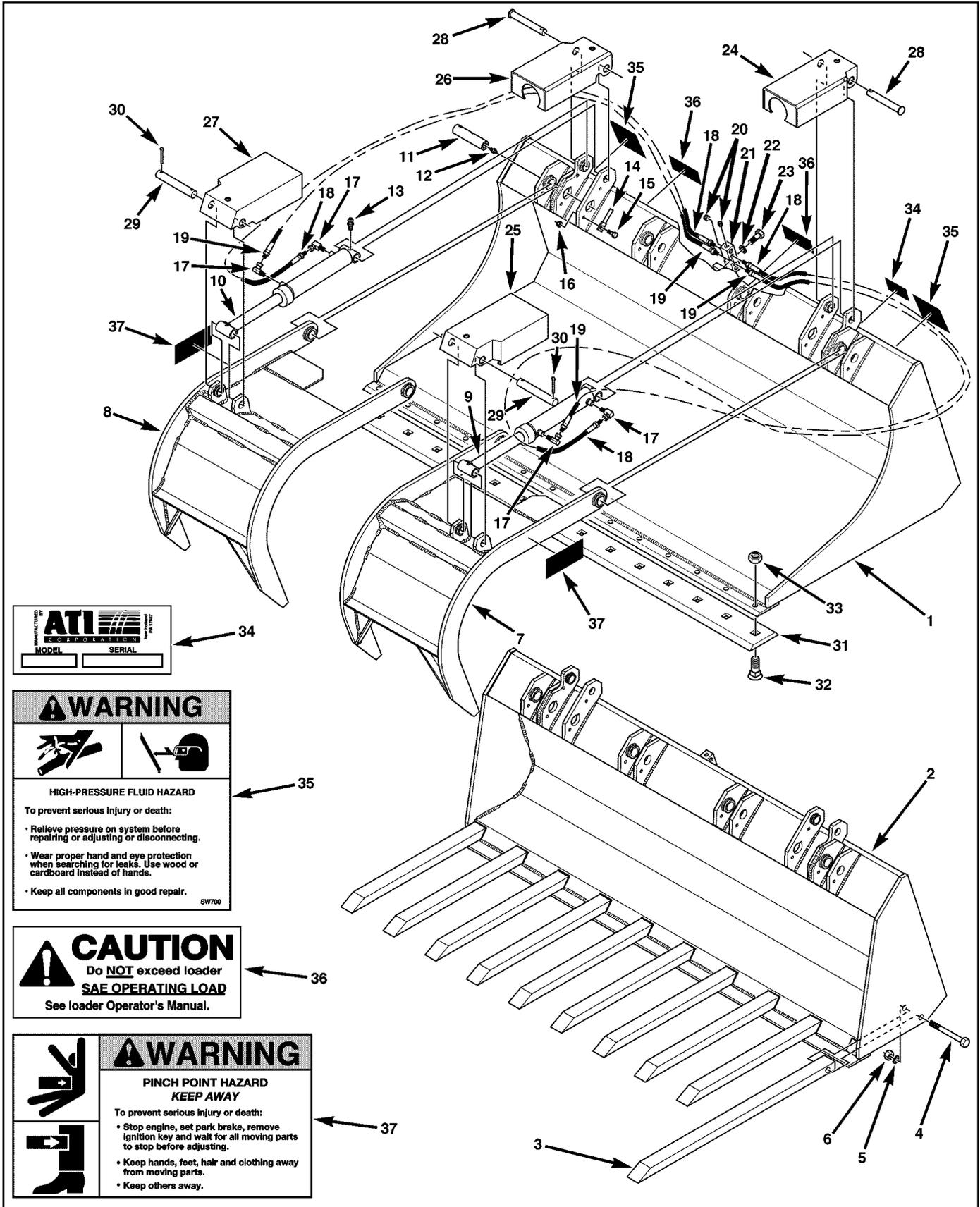
AR - As Required NSS - Not Serviced Separately ASN - After Serial No. BSN - Before Serial No. LP - Local Purchase



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Wide-Jaw Grapple PARTS LIST

Figure 3. Grapple With Cylinder Shields




 MANUFACTURED BY
 MODEL SERIAL

WARNING

HIGH-PRESSURE FLUID HAZARD

To prevent serious injury or death:

- Relieve pressure on system before repairing or adjusting or disconnecting.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.

SW700

CAUTION

Do **NOT** exceed loader **SAE OPERATING LOAD**

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WARNING



**PINCH POINT HAZARD
 KEEP AWAY**

To prevent serious injury or death:

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- Keep hands, feet, hair and clothing away from moving parts.
- Keep others away.

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Figure 3. Grapple With Cylinder Shields

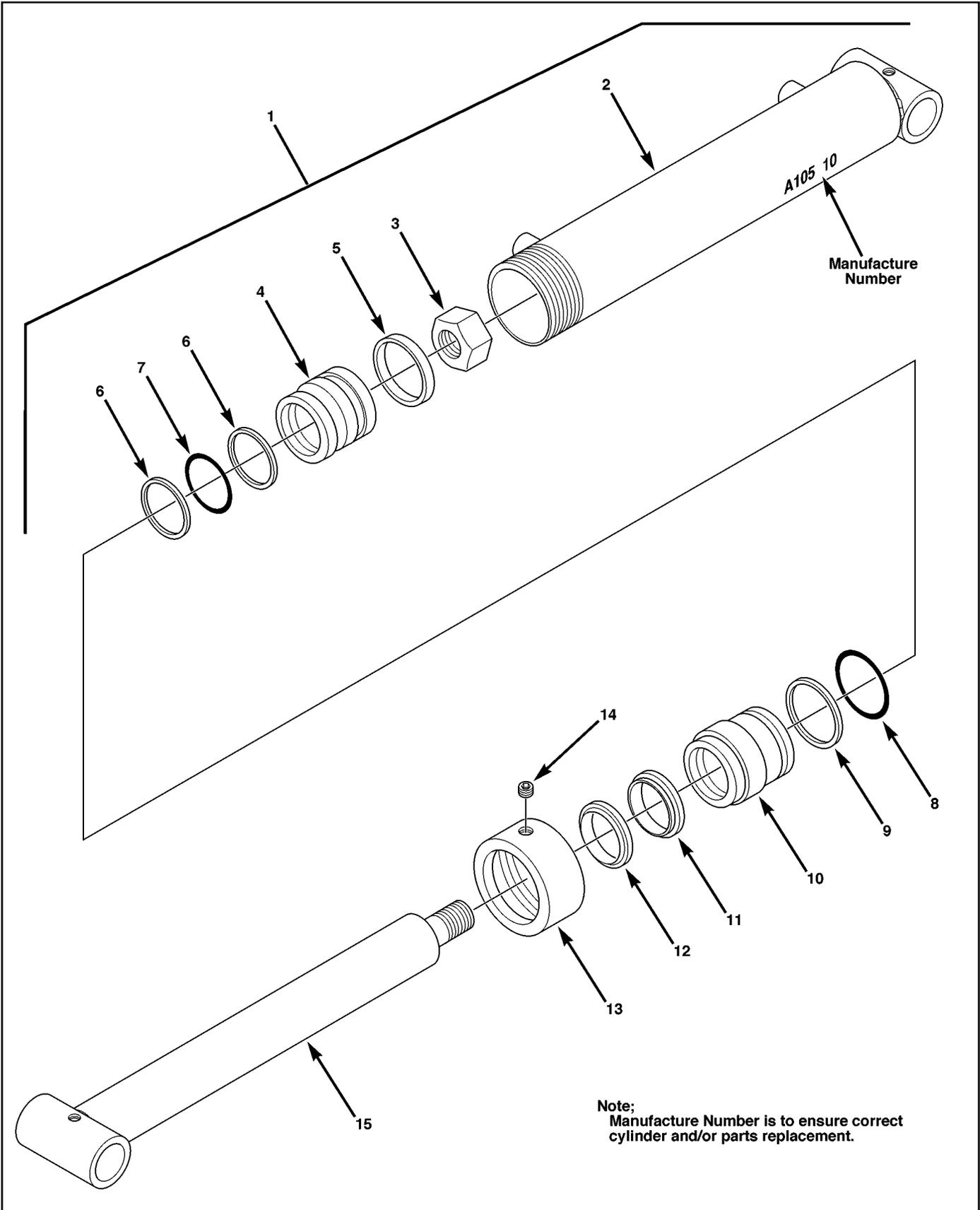
Item	Part No.	Qty	Description
1	300-001-000	1	Bucket, Grapple, GB-60
	300-002-000	1	Bucket, Grapple, GB-66
	300-003-000	1	Bucket, Grapple, GB-72
2	300-020-000	1	Fork, Construction Grapple, CGF-60
	300-021-000	1	Fork, Construction Grapple, CGF-66
	300-022-000	1	Fork, Construction Grapple, CGF-72
			Includes: Items 3 thru 6
3	001-001-005	AR	Tines
4	LP	AR	Bolt, Hex Head, 1/2"-13UNC x 3" Long
5	LP	AR	Washer, Lock, 1/2"
6	LP	AR	Nut, Hex, 1/2"-13UNC
7	300-101-000	1	Hook, Grapple, Left Side
8	300-102-000	1	Hook, Grapple, Right Side
9	000-166-056	1	Cylinder Assembly, Left Side, 2-1/4" Bore x 6" Stroke (See Breakdown)
10	000-166-057	1	Cylinder Assembly, Right Side, 2-1/4" Bore x 6" Stroke (See Breakdown)
11	000-161-048	4	Pin, 1-1/4" Dia. x 5-1/4" Long
12	LP	8	Fitting, Lube, 1/4"-28UNF
13	LP	4	Fitting, Lube, 3/16" Drive
14	000-161-024	8	Pin, Retainer, 3/8" x 3-1/4" Long
15	LP	6	Bolt, Hex Head, 5/16"-18UNC x 1-1/4" Long
16	LP	6	Nut, Lock Nylon Insert, 5/16"-18UNC
17	000-166-048	4	Elbow, 4MJ x 4MB, 90°
18	000-166-051	2	Hose, Hydraulic, 1/4" x 4FJX x 4MB x 51" Long, GB-60, CGF-60
	000-166-052	2	Hose, Hydraulic, 1/4" x 4FJX x 4MB x 53" Long, GB-66, GB-72, CGF-66, CGF-72, GB-78, CGF-78
19	000-166-053	2	Hose, Hydraulic, 1/4" x 4FJX x 4MB x 37" Long, GB-60, CGF-60
	000-166-054	2	Hose, Hydraulic, 1/4" x 4FJX x 4MB x 39" Long, GB-66, GB-72, CGF-66, CGF-72
	000-166-272	2	Hose, Hydraulic, 1/4" x 4FJX x 4MB x 41" Long, GB-78, CGF-78
20	000-166-061	4	Plug, Hex Socket, 4MB
21	000-166-055	1	Manifold
22	LP	1	Washer, Lock, 3/8"
23	LP	1	Bolt, Hex Head, 3/8"-16UNC x 1-1/4" Long
24	300-103-000	1	Shield, Left Cylinder Barrel End
25	300-104-000	1	Shield, Left Cylinder Rod End
26	300-105-000	1	Shield, Right Cylinder Barrel End
27	300-106-000	1	Shield, Right Cylinder Rod End
28	000-161-050	2	Pin, Shield, 1" Dia. x 5-3/4" Long
29	000-161-051	2	Pin, Shield, 1" Dia. x 6-1/2" Long
30	LP	4	Pin, Cotter, 3/16" Dia. x 1-1/2" Long
31	000-190-135	1	Edge, Cutting, DBF, 61-7/8", Optional (GB-60), Includes Items 32 & 33
	000-190-136	1	Edge, Cutting, DBF, 67-7/8", Optional (GB-66), Includes Items 32 & 33
	000-190-137	1	Edge, Cutting, DBF, 73-7/8", Optional (GB-72), Includes Items 32 & 33
	000-190-138	1	Edge, Cutting, DBF, 79-7/8", Optional (GB-78), Includes Items 32 & 33
32	000-150-262	AR	Bolt, Plow, Grade 8, 5/8"-11UNC x 2" Long
33	000-158-139	AR	Nut, Hex, Lock, Grade 8, 5/8"-11UNC
34	000-186-035	1	Plate, Serial, Adhesive Back
35	000-186-041	2	Decal, Warning, High-Pressure Fluid Hazard
36	000-186-023	2	Decal, Caution
37	000-186-057	2	Decal, Warning (Pinch Point)
			MP-Male Pipe FP-Female Pipe FPX-Female Pipe Swivel MB-Male O-Ring Boss FB-Female O-Ring Boss MJ-Male JIC FJ-Female JIC FJX-Female JIC Swivel
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Wide-Jaw Grapple PARTS LIST

Figure 4. Cylinder Assembly



Note;
Manufacture Number is to ensure correct
cylinder and/or parts replacement.

Wide-Jaw Grapple PARTS LIST

Figure 4. Cylinder Assembly



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Item	Part No.	Qty	Description
1	000-166-056	1	Cylinder Assembly, Left Side, 2-1/4" Bore x 6" Stroke (Shown)
	000-166-057	1	Cylinder Assembly, Right Side, 2-1/4" Bore x 6" Stroke (Not Shown)
			Includes Items 2 thru 15
2	000-166-058	1	Barrel Assembly, Left
	000-166-059	1	Barrel Assembly, Right
3	LP	1	Nut, Lock, 3/4"-16UNF
4	000-166-029	1	Piston
5	NSS	1	Uniring
6	NSS	2	Ring, Back Up
7	NSS	1	O-Ring
8	NSS	1	O-Ring
9	NSS	1	Ring, Back Up
10	000-166-030	1	Caphead
11	NSS	1	U-Cap, Loaded
12	NSS	1	Wiper, Rod
13	000-166-031	1	Cap
14	000-166-032	1	Screw, Set
15	000-166-033	1	Rod Assembly
	000-166-034	AR	Kit, Cylinder Repair Includes: Items 5 thru 9, 11 & 12
			Note; Manufacture Number is to ensure correct cylinder and/or parts replacement.

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