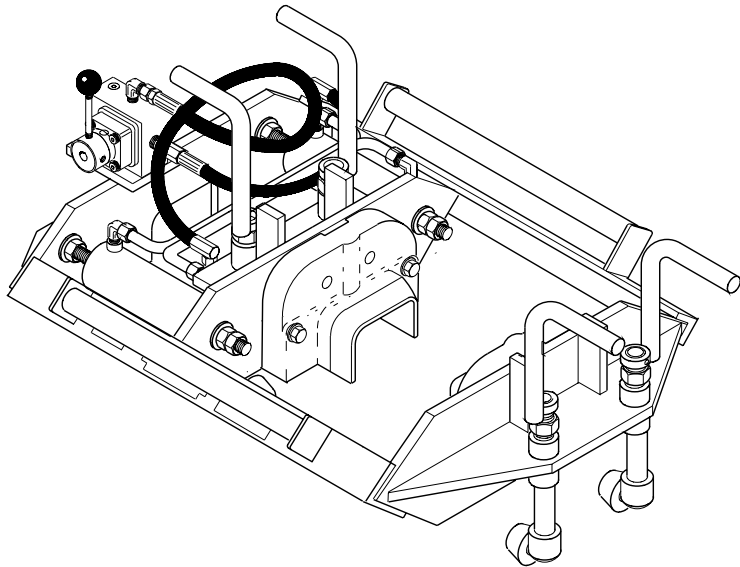


WS10 HYDRAULIC WELD SHEAR

Safety and Operation Manual



⚠ DANGER

SERIOUS INJURY OR DEATH
COULD RESULT FROM THE
IMPROPER REPAIR OR SER-
VICE OF THIS TOOL.

REPAIRS AND / OR SERVICE
TO THIS TOOL MUST ONLY BE
DONE BY AN AUTHORIZED
AND CERTIFIED DEALER.

THIS MANUAL COVERS MODELS ; WS10100, WS10200,
WS1020001, WS10301, WS1030101

Focused on performance™

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Printed in U.S.A.



STANLEY[®]
*Hydraulic
Tools*

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SERVICING THE WS10 WELD SHEAR: This manual contains safety, operation, and routine maintenance instructions. It does not contain service disassembly and service assembly instructions. If needed, complete service disassembly and service assembly instructions are contained in Manual No. 29168 which can be ordered from your Stanley Hydraulic Tools authorized dealer. Stanley Hydraulic Tools recommends that servicing of hydraulic tools, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

 **DANGER**

SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.

REPAIRS AND / OR SERVICE TO THIS TOOL MUST ONLY BE DONE BY AN AUTHORIZED AND CERTIFIED DEALER.

For the nearest authorized and certified dealer, call Stanley Hydraulic Tools, 1-800-549-0517 and ask for a Customer Service Representative.

SAFETY PRECAUTIONS

Tool operators and maintenance personnel must always comply with the safety precautions given in this manual and on the stickers and tags attached to the tool and hose.

These safety precautions are given for your safety. Review them carefully before operating the tool and before performing general maintenance or repairs.

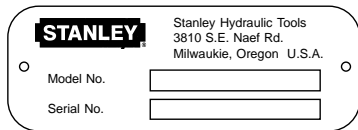
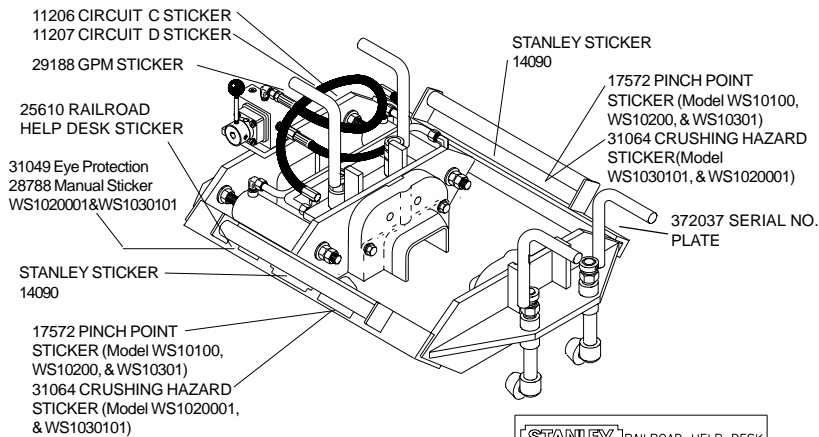
Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations. If so, place the added precautions in the space provided on page 3.

GENERAL SAFETY PRECAUTIONS

The WS10 Hydraulic Weld Shear will provide safe and dependable service if operated in accordance with the instructions given in this manual. Read and understand this manual and any stickers and tags attached to the grinders and hoses before operation. Failure to do so could result in personal injury or equipment damage.

- Operator must start in a work area without bystanders. The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.
- Establish a training program for all operators to ensure safe operation.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor.
- Always wear safety equipment such as goggles, ear and head protection, and safety shoes at all times when operating the tool.
- Always connect hoses to the tool hose couplers before energizing the hydraulic power source. Be sure all hose connections are tight.
- Do not operate the tool at oil temperatures above 140°F/60°C. Operation at higher temperatures can cause higher than normal temperatures at the tool which can result in operator discomfort.
- Do not operate a damaged, improperly adjusted, or incompletely assembled weld shear.
- Do not inspect, clean or replace the shear blades while the hydraulic power source is connected. Do not inspect or clean the tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.
- Never wear loose clothing that can get entangled in the working parts of the tool.
- Keep all parts of your body away from the cylinders and shear blades. Long hair or loose clothing can become drawn into moving components.
- Do not use a shear blade that is cracked, chipped or otherwise damaged. Always inspect shear blades for possible damage before installation or use.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.
- Eye injury, and cutting or severing of body parts is possible if proper procedures are not followed.

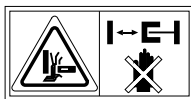
TOOL STICKERS AND TAGS



SERIAL NUMBER PLATE p/n 372037
(Shown actual size)



NO HAMMER STICKER 35294
MODEL WS1020001, WS10301,
WS1030101 ONLY



CRUSHING HAZARD WARNING 31064
(MODEL WS1020001, WS1030101
ONLY)



CE STICKER 28322 (MODEL
WS1020001, WS1030101 ONLY)

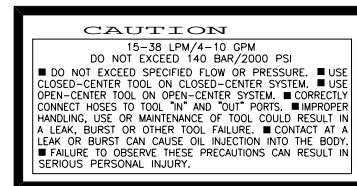


CIRCUIT TYPE D 11207 (MODEL
WS1020001, & WS1030101 ONLY)



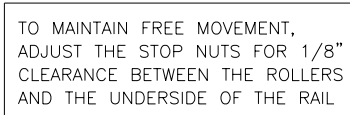
CIRCUIT TYPE C 11206 (MODEL
WS1020001, & WS1030101 ONLY)

The safety tag (p/n 15875) at right is attached to the tool when shipped from the factory. Read and understand the safety instructions listed on this tag before removal. We suggest you retain this tag and attach it to the tool when not in use.



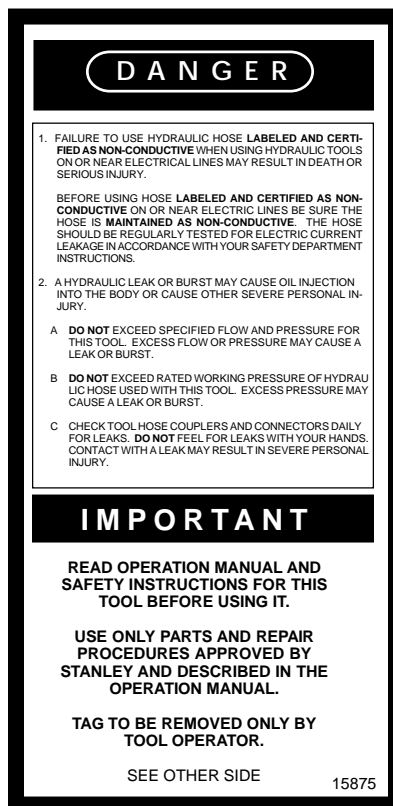
GPM/PRESSURE CAUTION STICKER
P/N 29188

The information listed on the flow and pressure sticker above must be legible at all times. Replace this sticker if it becomes worn or damaged. A re-placement is available from your local Stanley distributor.

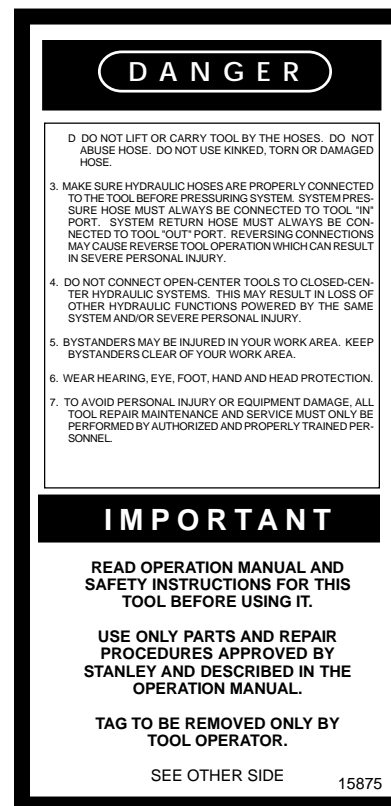


ROLLER ADJUSTMENT STICKER 35295
(MODEL WS1020001, WS10301, &
WS1030101 ONLY)

PINCH POINT WARNING STICKER
P/N 17572 (Models WS10100,
WS10200, & WS10301 ONLY)



SAFETY TAG P/N 15875 (shown smaller than actual size)



HYDRAULIC HOSE REQUIREMENTS

HOSE TYPES

Hydraulic hose types authorized for use with Stanley Hydraulic Tools are as follows:

- 1 Certified non-conductive
- 2 Wire-braided (conductive)
- 3 Fabric-braided (not certified or labeled non-conductive)

Hose 1 listed above is the only hose authorized for use near electrical conductors.

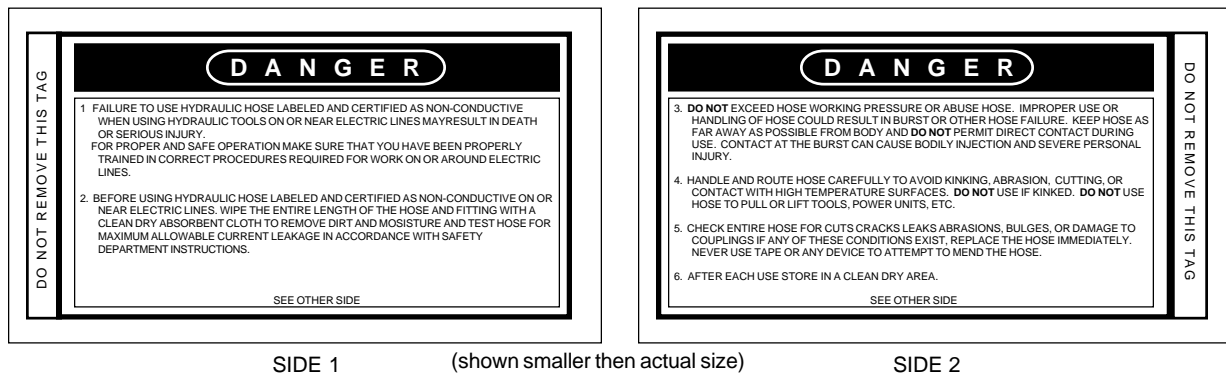
Hoses 2 and 3 listed above are **conductive** and **must never** be used near electrical conductors.

To help ensure your safety, the following DANGER tags are attached to all hose purchased from Stanley Hydraulic Tools. **DO NOT REMOVE THESE TAGS.**

If the information on a tag is illegible because of wear or damage, replace the tag immediately. A new tag may be obtained at no charge from your Stanley Distributor.

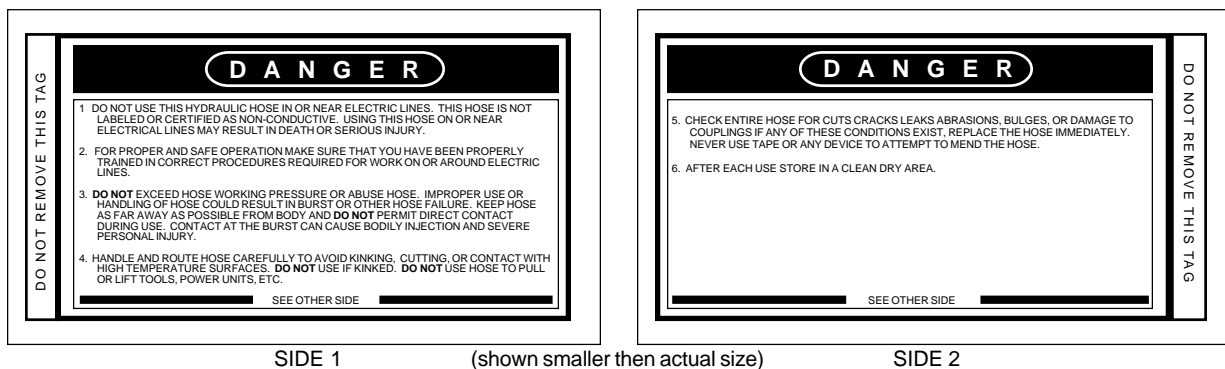
1 CERTIFIED NON-CONDUCTIVE HOSE

This tag is attached to all certified **non-conductive** hose.



2 AND 3 WIRE-BRAIDED AND FABRIC-BRAIDED (NOT CERTIFIED OR LABELED NON-CONDUCTIVE) HOSE

This tag is attached to all **conductive** hose.



HOSE PRESSURE RATING

The rated working pressure of the hydraulic hose **must be equal or higher than** the relief valve setting on the hydraulic system.

HYDRAULIC REQUIREMENTS

IMPORTANT

In addition to the Safety Precautions on pages 2 thru 4 of this manual, observe the following for equipment protection and care.

- Always store an idle Weld Shear in a clean dry space, safe from damage or pilferage.
- Do not exceed the rated limits or use the Weld Shear for applications beyond its design capacity.
- Always keep critical tool markings, such as labels and warning stickers legible.
- Always replace hoses, couplings and other parts with replacement parts recommended by Stanley Hydraulic Tools. Supply hoses must have a minimum working pressure rating of 2500 psi/175 bar.
- Permit only experienced personnel to perform tool repair.
- Be sure to wipe all couplers clean before connecting. Use only lint-free cloths.
- The hydraulic circuit control valve must be in the "OFF" position when coupling or uncoupling the Weld Shear. Failure to do so may result in damage to the quick couplers and cause overheating of the hydraulic system.
- Check fastener tightness often and before each use daily.

HYDRAULIC SYSTEM REQUIREMENTS

- The hydraulic system should provide a flow of 4-10 gpm/15-38 lpm at an operating pressure of 1500-2000 psi/105-140 bar. Recommended relief valve setting is 2100-2250 psi/145-155 bar.
- The system should have no more than 250 psi/17 bar backpressure measured at the tool end of the operating hoses. The system conditions for measurement are at maximum fluid viscosity of 400 ssu/82 centistokes (minimum operating temperatures).
- The hydraulic system should have enough heat rejection capacity to limit the maximum oil temperature to 140°F/60°C at the maximum expected ambient temperature. The recommended minimum cooling capacity is 5 hp/3.73 kW at a 40° F/22°C difference between ambient temperature and oil temperature.
- The hydraulic system should have a minimum of 25 micron filtration. Recommend using filter elements sized for a flow of at least 30 gpm/114 lpm for cold temperature startup and maximum dirt holding capacity.
- The hydraulic fluid used should have a viscosity between 100 and 400 ssu/20 and 82 centistokes at the maximum and minimum expected operating temperatures. Petroleum base hydraulic fluids with antiwear properties and a viscosity index over 140 ssu/28 centistokes will meet the recommended requirements over a wide range of operating temperatures.
- The recommended hose size is .500 inch/12 mm I.D. up to 50 ft/15 m long and .625 inch/16 mm I.D. minimum up to 100 ft/30 m long.
- Quick disconnect couplings must conform to NFPA T3.2015/HTMA specifications.

PREOPERATION PROCEDURES

□ PREPARATION FOR INITIAL USE

On hand pump units, replace the plastic shipping plug on top of the pump assembly with the breather vent. No other special unpacking or assembly requirements are required on either unit prior to usage.

Each unit should be inspected to assure the unit was not damaged in shipping and does not contain packing debris.

□ CHECK HYDRAULIC POWER SOURCE (Power Unit Model Only)

1. Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 4-10 gpm/15-38 lpm Do Not exceed 140 bar/2000 psi.
2. Make certain the hydraulic power source is equipped with a relief valve set to open at 2100-2250 psi/145-155 bar minimum.
3. Make certain that the power source return pressure does not exceed 250 psi/17 bar.
4. Check that the hydraulic circuit matches the tool for open-center (OC) operation.

□ CHECK TOOL

1. Make sure all tool accessories are correctly installed. Failure to install tool accessories properly can result in damage to the tool or personal injury.
2. There should be no signs of leaks.
3. The tool should be clean, with all fittings and fasteners tight.

□ CHECK CONTROL MECHANISM

Hand Pump Models

On hand pump models, check that the directional control valve operates freely from the neutral position to the forward position and then back to the neutral position and then to the rearward position. In each position work the lever to assure movement of the cylinders is free of binding and that the hydraulics are performing as intended.

Power Unit Models

On power unit models, check that the directional control valve operates freely from the neutral position to the forward position and then through the neutral and rearward positions.

□ CONNECT HOSES (Power Unit Model Only)

1. Wipe all hose couplers with a clean lint-free cloth before making connections.
2. Connect the hoses from the hydraulic power source to the hose couplers on the weld shear. It is a good practice to connect the return hose first and disconnect it last to minimize or avoid trapped pressure within the cylinders.
3. Observe flow indicators stamped on hose couplers to be sure that oil will flow in the proper direction. The female coupler is the inlet coupler.

NOTE: The pressure increase in uncoupled hoses left in the sun may result in making them difficult to connect. When possible, connect the free ends of operating hoses together.

OPERATING PROCEDURES - Power Unit and Hand Pump Models

□ CHECKING OPERATION AND PERFORMANCE

1. Observe all safety precautions.
2. Remove any debris and burrs from the rail joint that will interfere with the weld shear cutters.
3. Place the weld shear on the rail over the location to be welded.

4. Adjust the height of the four roller pivots (14 & 28). The pivots must, once pivoted, be placed under the rail head with a minimum of clearance to avoid any forcing during the forward movement of the cutters. This adjustment is done with the 4 hex nuts (8).

5. On the power unit model, move the hydraulic circuit control valve to the "ON" position.

6. On the Weld Shear, move the directional control valve lever to the forward position so that the shear blade advances. (*On hand pump versions, the shear blade will not advance or retract without pumping the lever*) Check that the shear blade advances without binding. With the cylinders fully extended, there should be a gap of 1/16 inch between the two shear blades. If this gap is not correct, do not use the weld shear and have it serviced by an authorized and certified dealer. If the gap is correct, retract the shear blade to its most rearward position by moving the control lever to the rearward position. The shear blades should now be as far apart as the tool will permit.

7. Remove the weld shear from the rail.

□ **CUTTING PROCEDURE**

1. Proceed with the preparations for welding and put the molds and accessories in their place.

2. Pour the weld.

3. As soon as permitted by the mold manufacturer's instructions, remove the two side iron sheets of the mold. The bottom plate does not need to be removed.

4. Remove any excess sand from the railhead to prevent damage to the cutters.

5. Place the weld shear on the rail so that it straddles the mold.

6. Pivot the four roller pivots under the rail head by turning the handle assemblies (6 & 9).

7. Start cutting at the correct time based on the mold manufacturer's instructions by moving the directional control valve lever forward (*hand pump models require pumping of the lever*).

8. Cut to the end of the stroke and hold for approximately 1 to 2 seconds.

9. Move the valve handle to the rearward position for opening the cutters (*hand pump models require*

pumping of the lever) and retract the shear blade to its most rearward position.

10. Pivot the four roller pivots away from the rail and remove the weld shear from the rail as soon as possible.

11. Quickly remove any excess weld material from the cutters to prevent overheating.

COLD WEATHER OPERATION

If a power unit model weld shear is to be used during cold weather, preheat the system hydraulic fluid at low engine speed.

Power unit models should use normally recommended fluids with fluid temperature at or above 50° F/10° C (400 ssu/82 centistokes) before use.

Hand pump models may be warmed by placing them in a heated compartment.

TROUBLESHOOTING

If symptoms of poor performance develop, the following chart can be used as a guide to correct the problem.

When diagnosing faults in operation of the Weld Shear, always check that the hydraulic power

source is supplying the correct hydraulic flow and pressure to the weld shear as listed in the table. Use a flowmeter known to be accurate. Check the flow with the hydraulic oil temperature at least 80°F/27°C.

SYMPTOM	CAUSE	REMEDY
Weld Shear does not operate.	Hydraulic power source not functioning.	On power unit models, check power source for proper flow and pressure (3-10 gpm/11-38 lpm, 2000 psi/140 bar. On hand pump models, check that the pressure relief is set to 2200 to 2400 psi.
	Couplers or hoses blocked (power unit models).	Locate and remove restriction.
	Hydraulic pump failure (hand pump models).	Have inspected and repaired at authorized Stanley service center.
	Hydraulic lines not connected (power unit models).	Connect lines.
	Cylinder seal failure.	Have inspected and repaired at authorized Stanley service center.

SPECIFICATIONS

Capacity	20,000 lb / 89,000 N
Pressure Range	2000 psi / 140 bar
Maximum Back Pressure	250 psi / 17 bar
Flow Range	3-10 gpm / 11-38 lpm
Porting (power unit model)	-8 SAE O-ring
Couplers (power unit model only)	HTMA Flush Face Type Male & Female
Connect Size and Type (power unit model only)	3/8 in. Male Pipe Adapter
Hose Whips	No
Weight (hand pump model)	110 lb / 50 kg
(power unit model)	100 lb / 45 kg
Overall Length (hand pump model)	32.5 inches / 82.5 cm
(power unit model)	29 inches / 73.7 cm
Overall Width (hand pump & power unit models)	19 inches / 18 cm
Overall Height (hand pump model without pump handle)	18 inches / 45.7 cm
(power unit model)	14 inches / 35.5 cm
Maximum Fluid Temperature	140° F/60° C
Sound Pressure Level.....	Less Than 70 dBA @ 1 meter
Vibration Level	Less Than 2.5m/sec ²

ACCESSORIES

Description	Part No.
Conversion Kit (Power Unit Model to Hand Pump Model)	28645
Conversion Kit (Hand Pump Model to Power Unit Model)	28644
Shear Blade Set - 115 lb (1 pair)	27989
Shear Blade Set - 132 lb (1 pair)	27948
Shear Blade Set - Small Rail (1 pair)	35742

WARRANTY

Hand held tools and their parts carry a limited warranty against defects in materials and workmanship for a period of 12 months from the date of purchase. Exceptions are cutting parts, steels, and other parts not manufactured by Stanley (such as impact mechanisms, alternators, regulators, and hoses), and parts subject to normal wear and tear (such as o-rings, saw blades, and other parts that become worn through normal use of the tool).

The Warranty Registration Card packed with the tool must be filled out and returned to Stanley upon receipt of the tool.

Stanley reserves the right to replace or repair only those parts which under our examination prove to have been defective at the time of purchase.

Shipping charges are prepaid by the customer unless otherwise authorized by Stanley.

The warranty is void if maximum flow and pressure ratings are exceeded.

There is no other warranty expressed or implied.

WS10100 & WS10200 PARTS LIST

Item No	Part No	Qty	Description
1	----	1	Retaining Ring (incl in p/n 28587) ●
2	25997	1	Hose Assy
3	26717	2	Elbow
4	26000	2	Tee
5	25999	2	Tube Assy
6	28113	2	Handle Assy - Right Hand
7	07492	4	Roll Pin
8	26196	4	Nut
9	28112	2	Handle Assy - Left Hand
10	25797	1	Slide Weldment
11	27948	1 pr	Shear Blade Weldment (pair)
12	02504	4	Capscrew - 1/2 - 13UNC
13	03061	4	Lockwasher
14	28107	2	Roller Pivot - Long
15	25995	8	Nut
16	21318	6	Washer
17	26001	2	Hydraulic Cylinder
18	25996	1	Hose Assy
19	14090	2	Stanley Decal
20	17572	2	Pinch Point Warning Sticker
21	372155	2	Drive Pin
22	28105	4	Shaft
23	26247	4	DU Bearing
24	28104	4	Roller
25	28228	4	Washer
26	18038	4	Retaining Ring
27	372037	1	Name Tag
28	28106	2	Roller Pivot - Short
29	25610	1	Railroad Help Desk Sticker
30	00569	2	Capscrew - 5/16-18UNC
31	03031	2	Lockwasher
32	26002	1	Pump Block Assy (WS10200 model only) ◆
33	29188	1	GPM Sticker □
34	25721	1	Frame Weldment
35	----	1	Rod (part of item 17)
36	----	1	Spacer (part of item 17)
37	----	1	O-ring (incl in p/n 28587 Kit) ●
38	----	1	Back-up Ring (incl in p/n 28587) ●
39	01532	1	Straight Thread Elbow
40	----	1	Head (part of item 17)
41	----	1	O-ring (incl in p/n 28587 Kit) ●
42	----	1	Dust Seal (incl in p/n 28587) ●
43	26728	1	Valve Block Assy (WS10100 model only) □
44	----	1	Piston Seal (incl in p/n 28587 Kit) ●
45	----	1	O-ring (incl in p/n 28587 Kit) ●
46	----	1	Piston (part of item 17)
47	----	1	Nut (part of item 17)
48	17527	1	Cap
49	24291	1	Lever Rod
50	02633	1	Knob
51	24313	1	Housing Assy
52	24876	1	Spring
53	20145	2	Ball
54	02177	1	O-ring, 2 1/16 x 2 1/4 x 3/32 ●
55	24877	1	Rotor Assy★
56	07890	1	Roll Pin
57	24233	1	Shaft
58	20761	2	Thrust Washer
59	20762	1	Needle Thrust Bearing
60	17924	1	O-ring, 3/8 x 1/2 x 1/16 ●
61	24300	1	Set Screw
62	00146	4	Capscrew, 5/16 x 18UNC x 1 3/4 HSH
63	26023	1	Handle ◆
64	25901	1	Lever ◆
65	26005	1	#80 Chain Master Link (incl items 103 & 104) ◆
66	29547	1	Pivot Block ◆
67	12100	3	3/8" Dia Steel Ball
68	26073	2	Spring ◆
69	01411	3	O-ring, .468 x .624 x .078 ◆ ●
70	08104	1	-6 SAE Plug ◆
71	26070	1	Breather Vent ◆
72	26006	1	Parkut Seal ◆◆
73	26007	1	Tank ◆

Item No	Part No	Qty	Description
74	26003	2	1/4 Stat-O-Seal ◆◆
75	26004	2	Capscrew, 1/4-20UNC x 5 1/2 ◆
76	350784	1	O-ring, 5/16 x 7/16 x 1/16 ◆●
77	28233	1	Cartridge Valve ◆
78	13994	1	1/8" Steel Ball ◆
79	26077	1	Poppet ◆
80	26076	1	Spring ◆
81	350016	1	-2 Plug ◆
82	25915	1	Plunger ◆
83	28244	1	Adjustment Screw ◆
84	02901	2	O-ring, .239 x .367 x .064 ◆●
85	25916	1	Modified -5 Plug ◆
86	06533	1	O-ring, 1.171 x 1.403 x .116 ◆●
87	04858	1	-16 Plug ◆
88	03364	1	O-ring, .414 x .558 x .072 ◆●
89	26069	1	Piston Seal ◆◆
90	24289	1	Plug ◆
91	26071	1	Spring ◆
92	25850	1	Pump Block ◆
93	00016	2	O-ring, 9/16 x 11/16 x 1/16 ●
94	25881	1	Valve Block
95	01362	3	O-ring, 5/16 x 7/16 x 1/16 ●
96	24305	9	Spring Washer
97	24231	3	Grommet
98	01605	2	O-ring .644 x .818 x .087 -908 (incl with item 36 or 75) ●
99	350237	2	-8 Plug (incl item 36) ◆
100	25912	1	-2 Plug
101	23002	1	O-ring, 7/8 x 1 1/8 x 1/8 -212 ◆◆
102	26074	1	Backup Ring -212 ◆◆
103	----	1	Chain Link (incl with item 65) ◆
104	----	2	Cotter Pin (incl with item 65) ◆
105	00682	3	Capscrew, 3/8 x 1 3/4 HSH ◆
106	25292	1	Roll Pin ◆
107	00936	2	Adapter (incl item 98) □
108	24059	1	Male Coupling □
109	24058	1	Female Coupling □
110	00955	2	1/8" Pipe Plug □
111	03906	4	Locknut □

SEAL KIT DATA

Seal Kit Part No. 28586

Item No	Part No	Qty	Description
99	01605	2	O-ring
54	02177	1	O-ring
60	17924	1	O-ring
74	26003	2	Stat-O-Seal
72	26006	1	Purkut Seal
69	01411	3	O-ring
101	23002	1	O-ring
102	26074	1	Backup Ring
84	02901	2	O-ring
95	01362	3	O-ring
93	00016	2	O-ring
89	26069	1	Piston Seal
88	03364	1	O-ring
86	06533	1	O-ring
76	350784	1	O-ring
--	28587	2	Cylinder Repair Kit

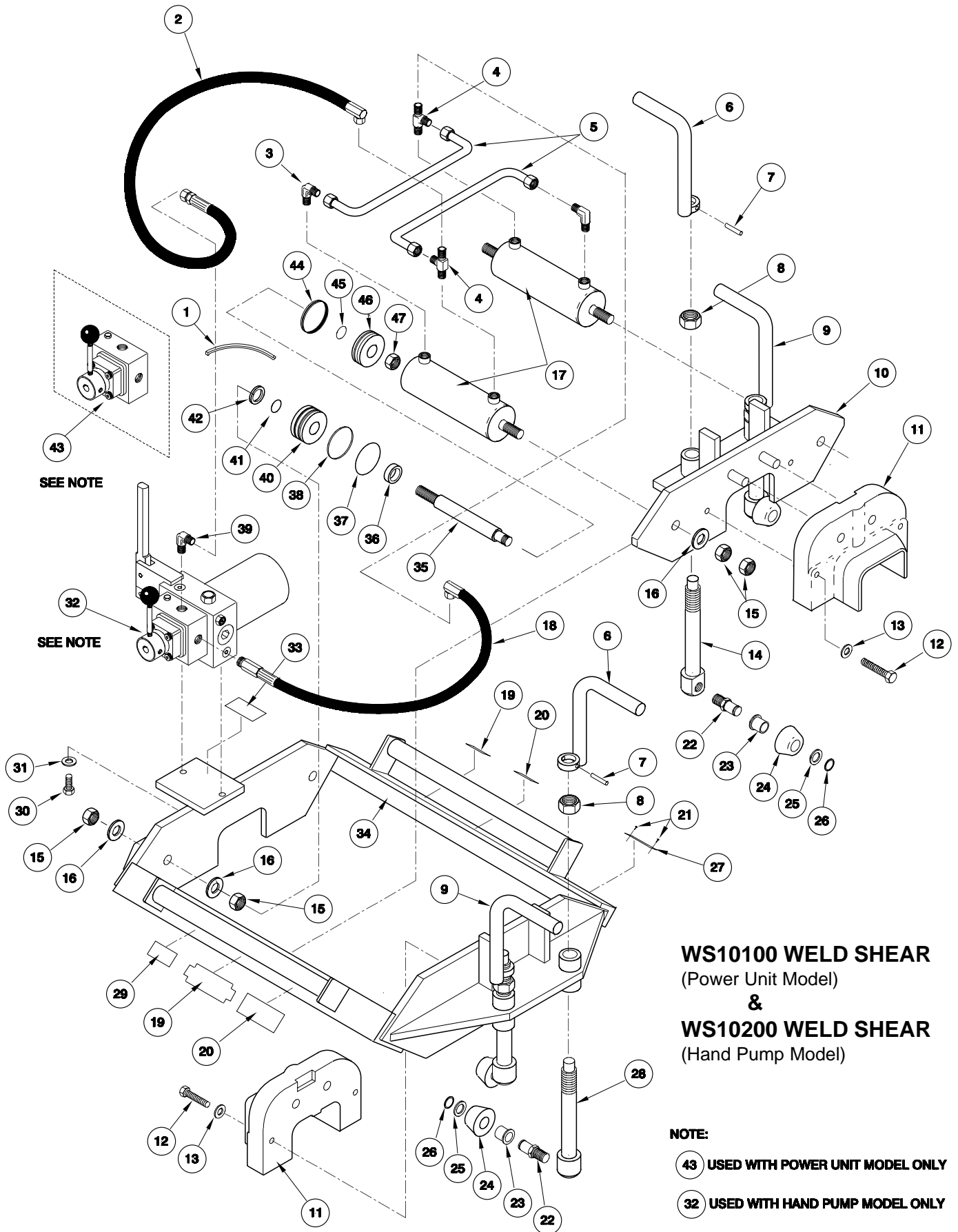
□ Denotes parts used only in WS10100 (Power Unit) models.

◆ Denotes parts used only in WS10200 (Hand Pump) models.

● Denotes part in seal kit

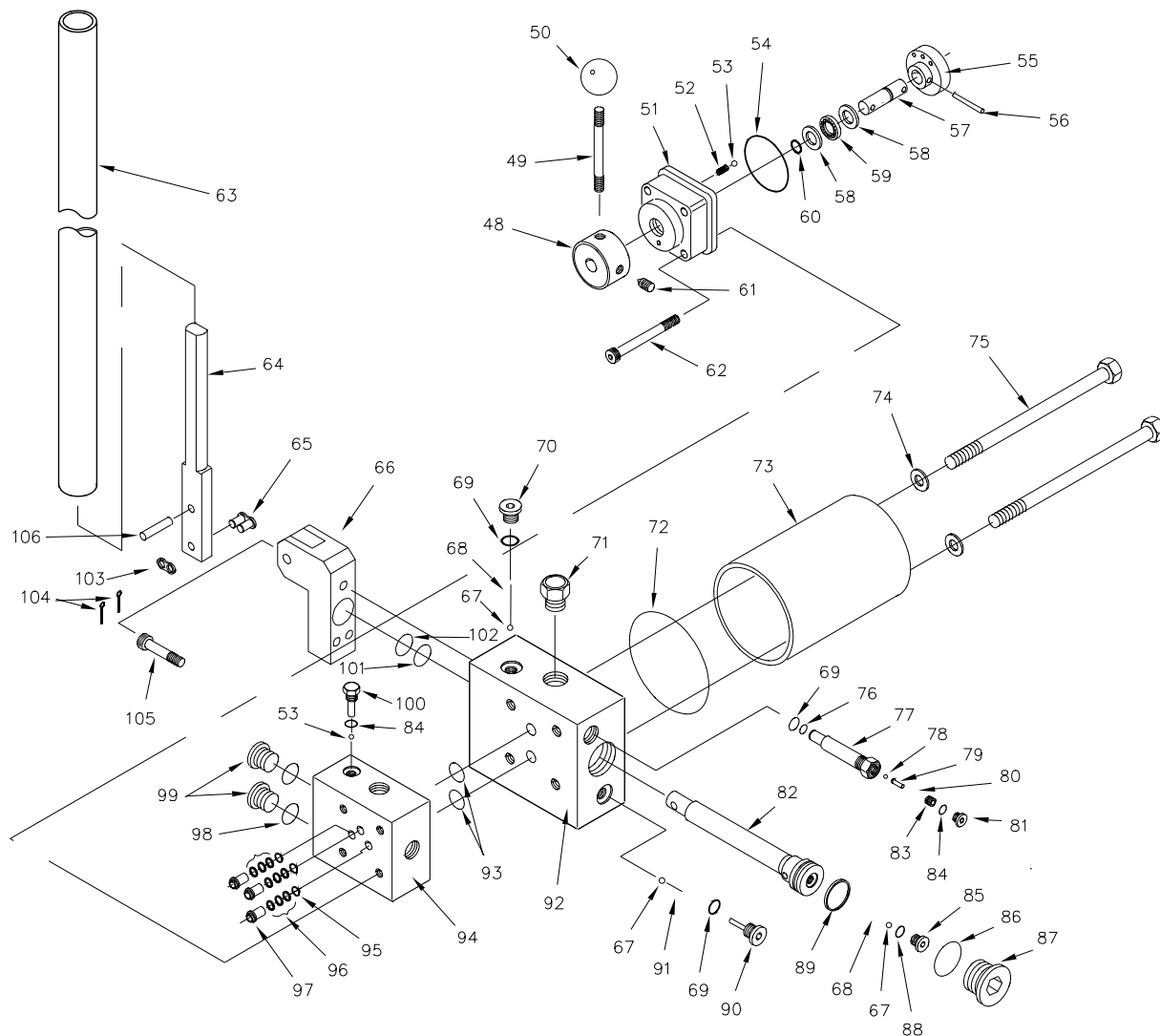
★33614 - Rotor Service Assy.

NOTE: Use Part Number and Part Name when ordering.



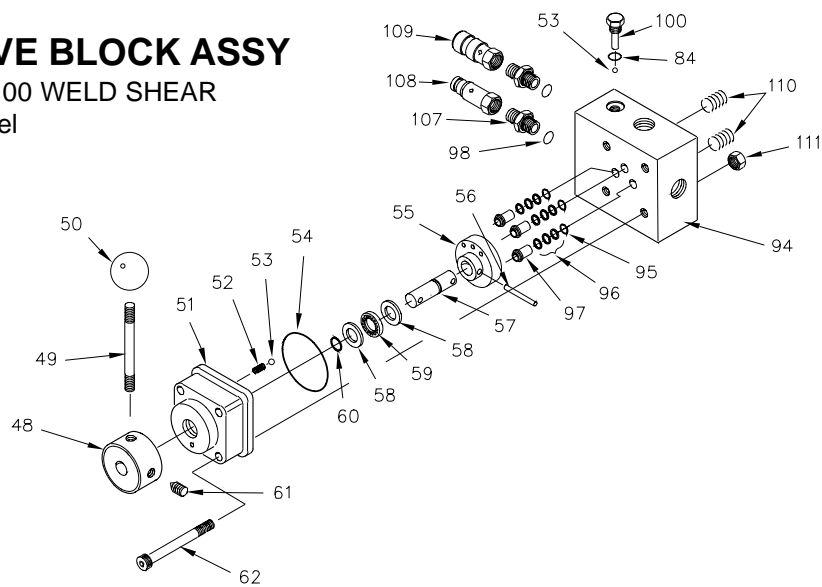
26002 PUMP BLOCK ASSY

Used on WS10200 WELD SHEAR
Hand Pump Model



26728 VALVE BLOCK ASSY

Used on WS10100 WELD SHEAR
Power Unit Model



WS102001 PARTS LIST

Item No	Part No	Qty	Description
1	----	1	Retaining Ring (includ in p/n 28587)●
2	25997	1	Hose Assy
3	26717	2	Elbow
4	26000	2	Tee
5	25999	2	Tube Assy
6	28113	2	Handle Assy - Right Hand
7	07492	4	Roll Pin
8	26196	4	Nut
9	28112	2	Handle Assy - Left Hand
10	25797	1	Slide Weldment
11	27948	1 pr	Shear Blade Weldment (pair)
12	02504	4	Capscrew - 1/2 - 13UNC
13	03061	4	Lockwasher
14	28107	2	Roller Pivot - Long
15	25995	8	Nut
16	21318	6	Washer
17	26001	2	Hydraulic Cylinder
18	25996	1	Hose Assy
19	14090	2	Stanley Decal
20	17572	2	Pinch Point Warning Sticker
21	372155	2	Drive Pin
22	28105	4	Shaft
23	26247	4	DU Bearing
24	28104	4	Roller
25	28228	4	Washer
26	18038	4	Retaining Ring
27	372037	1	Name Tag
28	28106	2	Roller Pivot - Short
29	25610	1	Railroad Help Desk Sticker
30	00569	2	Capscrew - 5/16-18UNC
31	03031	2	Lockwasher
32	26002	1	Pump Block Assy (WS10200 model only) ◆
33	29188	1	GPM Sticker □
34	25721	1	Frame Weldment
35	----	1	Rod (part of item 17)
36	----	1	Spacer (part of item 17)
37	----	1	O-ring (includ in p/n 28587 Kit)●
38	----	1	Back-up Ring (includ in p/n 28587)●
39	01532	1	Straight Thread Elbow
40	----	1	Head (part of item 17)
41	----	1	O-ring (includ in p/n 28587 Kit)●
42	----	1	Dust Seal (includ in p/n 28587) ●
43	26728	1	Valve Block Assy (WS10100 model only) □
44	----	1	Piston Seal (includ in p/n 28587 Kit) ●
45	----	1	O-ring (includ in p/n 28587 Kit) ●
46	----	1	Piston (part of item 17)
47	----	1	Nut (part of item 17)
48	17527	1	Cap
49	24291	1	Lever Rod
50	02633	1	Knob
51	24313	1	Housing Assy
52	24876	1	Spring
53	20145	2	Ball
54	02177	1	O-ring, 2 1/16 x 2 1/4 x 3/32 ●
55	24877	1	Rotor Assy★
56	07890	1	Roll Pin
57	24233	1	Shaft
58	20761	2	Thrust Washer
59	20762	1	Needle Thrust Bearing
60	17924	1	O-ring, 3/8 x 1/2 x 1/16 ●
61	24300	1	Set Screw
62	00146	4	Capscrew, 5/16 x 18UNC x 1 3/4 HSH
63	26023	1	Handle ◆
64	25901	1	Lever ◆
65	26005	1	#80 Chain Master Link (includ items 103 & 104) ◆
66	29547	1	Pivot Block ◆
67	12100	3	3/8" Dia Steel Ball
68	26073	2	Spring ◆
69	01411	3	O-ring, .468 x .624 x .078 ◆ ●
70	08104	1	-6 SAE Plug ◆
71	26070	1	Breather Vent ◆
72	26006	1	Parkut Seal ◆●
73	26007	1	Tank ◆

Item No	Part No	Qty	Description
74	26003	2	1/4 Stat-O-Seal ◆●
75	26004	2	Capscrew, 1/4-20UNC x 5 1/2 ◆
76	350784	1	O-ring, 5/16 x 7/16 x 1/16 ◆●
77	28233	1	Cartridge Valve ◆
78	13994	1	1/8" Steel Ball ◆
79	26077	1	Poppet ◆
80	26076	1	Spring ◆
81	350016	1	-2 Plug ◆
82	25915	1	Plunger ◆
83	28244	1	Adjustment Screw ◆
84	02901	2	O-ring, .239 x .367 x .064 ◆●
85	25916	1	Modified -5 Plug ◆
86	06533	1	O-ring, 1.171 x 1.403 x .116 ◆●
87	04858	1	-16 Plug ◆
88	03364	1	O-ring, .414 x .558 x .072 ◆●
89	26069	1	Piston Seal ◆●
90	24289	1	Plug ◆
91	26071	1	Spring ◆
92	25850	1	Pump Block ◆
93	00016	2	O-ring, 9/16 x 11/16 x 1/16 ●
94	25881	1	Valve Block
95	01362	3	O-ring, 5/16 x 7/16 x 1/16 ●
96	24305	9	Spring Washer
97	24231	3	Grommet
98	01605	2	O-ring .644 x .818 x .087 -908 (includ with item 36 or 75) ●
99	350237	2	-8 Plug (includ item 36) ◆
100	25912	1	-2 Plug
101	23002	1	O-ring, 7/8 x 1 1/8 x 1/8 -212 ◆●
102	26074	1	Backup Ring -212 ◆●
103	----	1	Chain Link (includ with item 65) ◆
104	----	2	Cotter Pin (includ with item 65) ◆
105	00682	3	Capscrew, 3/8 x 1 3/4 HSH ◆
106	25292	1	Roll Pin ◆
107	00936	2	Adapter (includ item 98) □
108	24059	1	Male Coupling □
109	24058	1	Female Coupling □
110	00955	2	1/8" Pipe Plug □
111	03906	4	Locknut □

SEAL KIT DATA

Seal Kit Part No. 28586

Item No	Part No	Qty	Description
99	01605	2	O-ring
54	02177	1	O-ring
60	17924	1	O-ring
74	26003	2	Stat-O-Seal
72	26006	1	Purkut Seal
69	01411	3	O-ring
101	23002	1	O-ring
102	26074	1	Backup Ring
84	02901	2	O-ring
95	01362	3	O-ring
93	00016	2	O-ring
89	26069	1	Piston Seal
88	03364	1	O-ring
86	06533	1	O-ring
76	350784	1	O-ring
--	28587	2	Cylinder Repair Kit

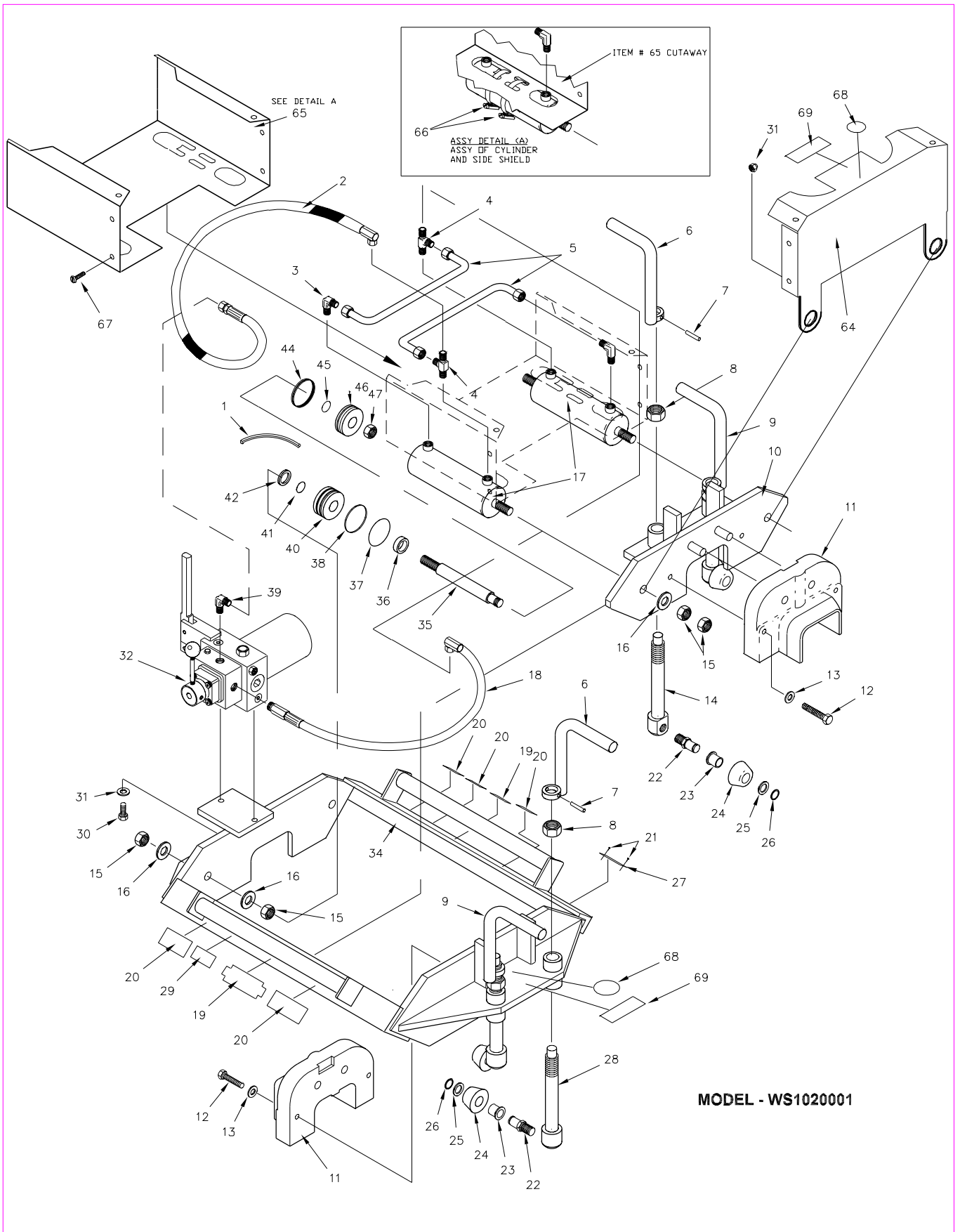
□ Denotes parts used only in WS10100 (Power Unit) models.

◆ Denotes parts used only in WS10200 (Hand Pump) models.

● Denotes part in seal kit

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NOTE: Use Part Number and Part Name when ordering. 14



WS10301, WS1030101 PARTS LIST

Item No	Part No	Qty	Description
1	-----	1	Retaining Ring (incl in p/n 28587)●
2	35691	1	Tube Assy
3	26717	4	Elbow
4	26000	2	Tee
5	25999	2	Tube Assy
6	28113	2	Handle Assy - Right Hand
7	07492	4	Roll Pin
8	26196	4	Nut
9	28112	2	Handle Assy - Left Hand
10	25797	1	Slide Weldment
11	27948	1 pr	Shear Blade Weldment (pair) WS10301 Only. (No shear Blades are Shipped with Model WS1030101)
12	02504	4	Capscrew - 1/2 - 13UNC
13	03061	4	Lockwasher
14	28107	2	Roller Pivot - Long
15	25995	8	Nut
16	21318	6	Washer
17	26001	2	Hydraulic Cylinder
18	35690	1	Tube Assy
19	14090	2	Stanley Decal
20	31064	4	Crushing Hazard Warning Sticker (model WS1030101)
20	17572	2	Pinch Point Sticker Model WS10301
21	372155	2	Drive Pin
22	28105	4	Shaft
23	26247	4	DU Bearing
24	28104	4	Roller
25	28228	4	Washer
26	18038	4	Retaining Ring
27	372037	1	Name Tag
28	28106	2	Roller Pivot - Short
29	25610	1	Railroad Help Desk Sticker (Model WS10301) Not used on WS1030101
30	35869	1	Flow Control
31	06971	6	Locknut 10-24 Plated
32	34570	2	Adaptor, -6 SAE/-8 JIC
33	29188	1	GPM Sticker
34	25721	1	Frame Weldment
35	-----	1	Rod (part of item 17)
36	-----	1	Spacer (part of item 17)
37	-----	1	O-ring (incl in p/n 28587 Kit)●
38	-----	1	Back-up Ring (incl in p/n 28587)●
39	N/A	---	N/A
40	-----	1	Head (part of item 17)
41	-----	1	O-ring (incl in p/n 28587 Kit)●
42	-----	1	Dust Seal (incl in p/n 28587) ●
43	N/A	---	N/A
44	-----	1	Piston Seal (incl in p/n 28587 Kit) ●
45	-----	1	O-ring (incl in p/n 28587 Kit) ●
46	-----	1	Piston (part of item 17)
47	-----	1	Nut (part of item 17)
48	31061	1	Cap
49	24291	1	Lever Rod
50	02633	1	Knob
51	24313	1	Housing Assy
52	00757	1	Roll Pin 1/8 x 3/4
53	20145	1	Steel Ball
54	02177	1	O-ring, 2 1/16 x 2 1/4 x 3/32 ●
55	24877	1	Rotor Assy★
56	07890	1	Roll Pin
57	24233	1	Shaft
58	20761	2	Thrust Washer
59	20762	1	Needle Thrust Bearing
60	17924	1	O-ring, 3/8 x 1/2 x 1/16 ●
61	24300	1	Set Screw
62	01758	4	Capscrew, 5/16 x 18UNC x 3-1/2 HSH
63	29876	1	Valve Block
64	35359	1	Front Shield
65	35360	1	Side Shield
66	35871	4	Heavy Duty Hose Clamps
67	02473	6	Screw, 10-24 x 1/2 PHMS,Slotted
68	35294	2	No Hammer Sticker
69	35295	2	Roller Adjustment Sticker
70	24297	1	Torsion Spring
71	28670	1	Koenig Plug

Item No	Part No	Qty	Description
72	35687	1	Valve Bracket
73	11206	1	Type C Sticker
74	11207	1	Type D Sticker
75	28322	1	CE Sticker
76	02901	1	O-ring .239 x .367 x .064●
77	00285	1	Roll Pin 1/8 x 5/8
78	01362	3	O-ring, 5/16 x 7/16 x 1/16 ●
79	24305	9	Spring Washer
80	24231	3	Grommet
81	25912	1	-2 Plug
82	00936	2	Adapter (incl o-ring)
83	24059	1	Male Coupling
83	24058	1	Female Coupling
85	03906	4	Locknut
86	28788	1	Manual Sticker (WS1030101 Only)
87	31049	1	Eye Protection Sticker (WS1030101 Only)

SEAL KIT DATA

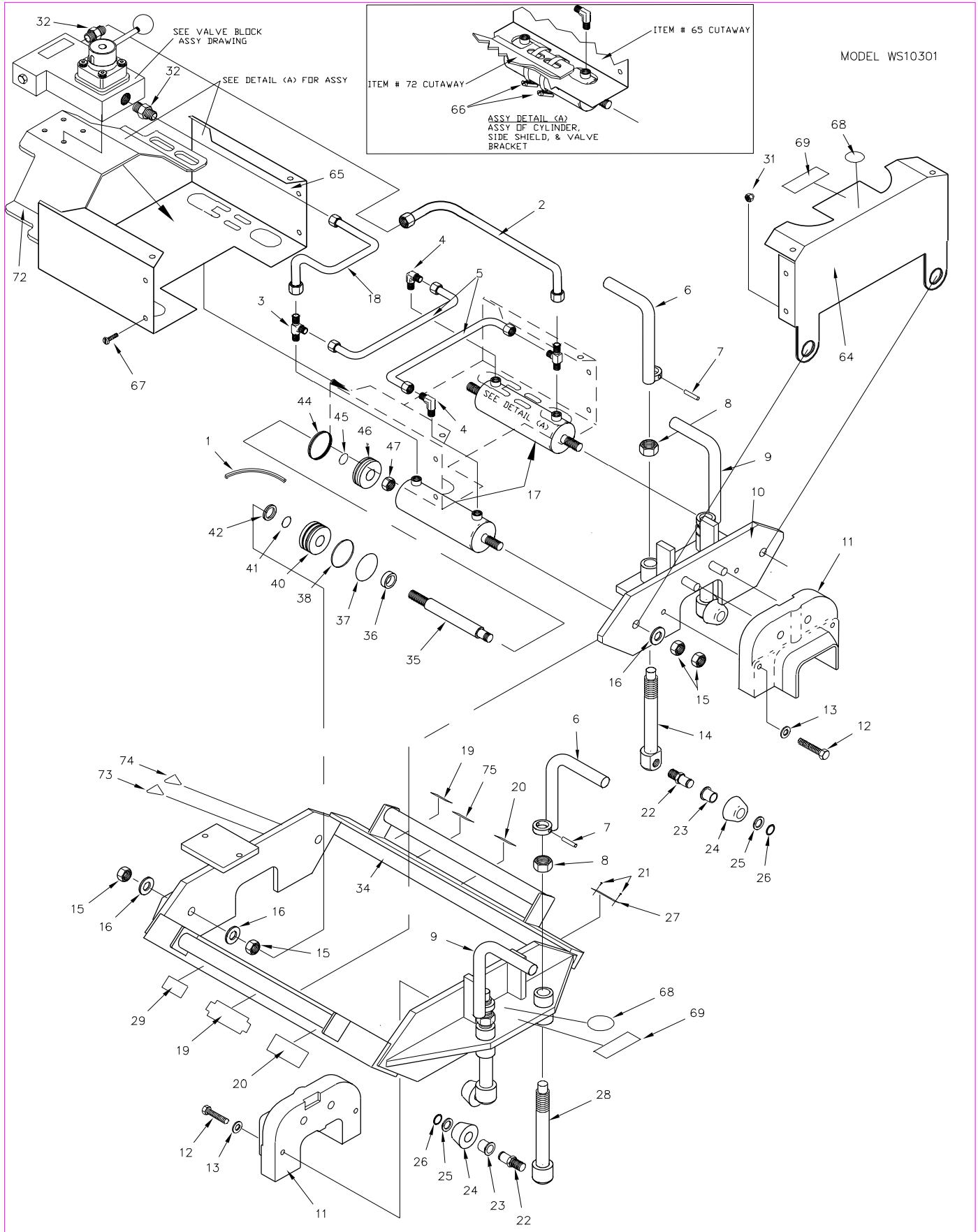
Seal Kit Part No. 28586			
Item No	Part No	Qty	Description
99	01605	2	O-ring (See WS10100/200 Parts List)
54	02177	1	O-ring
60	17924	1	O-ring
74	26003	2	Stat-O-Seal (See WS10100/200 Parts List)
72	26006	1	Purkut Seal (See WS10100/200 Parts List)
69	01411	3	O-ring (See WS10100/200 Parts List)
101	23002	1	O-ring (See WS10100/200 Parts List)
102	26074	1	Backup Ring (See WS10100/200 Parts List)
76	02901	2	O-ring
87	01362	3	O-ring
93	00016	2	O-ring (See WS10100/200 Parts List)
89	26069	1	Piston Seal (See WS10100/200 Parts List)
88	03364	1	O-ring (See WS10100/200 Parts List)
86	06533	1	O-ring (See WS10100/200 Parts List)
76	350784	1	O-ring (See WS10100/200 Parts List)
--	28587	2	Cylinder Repair Kit

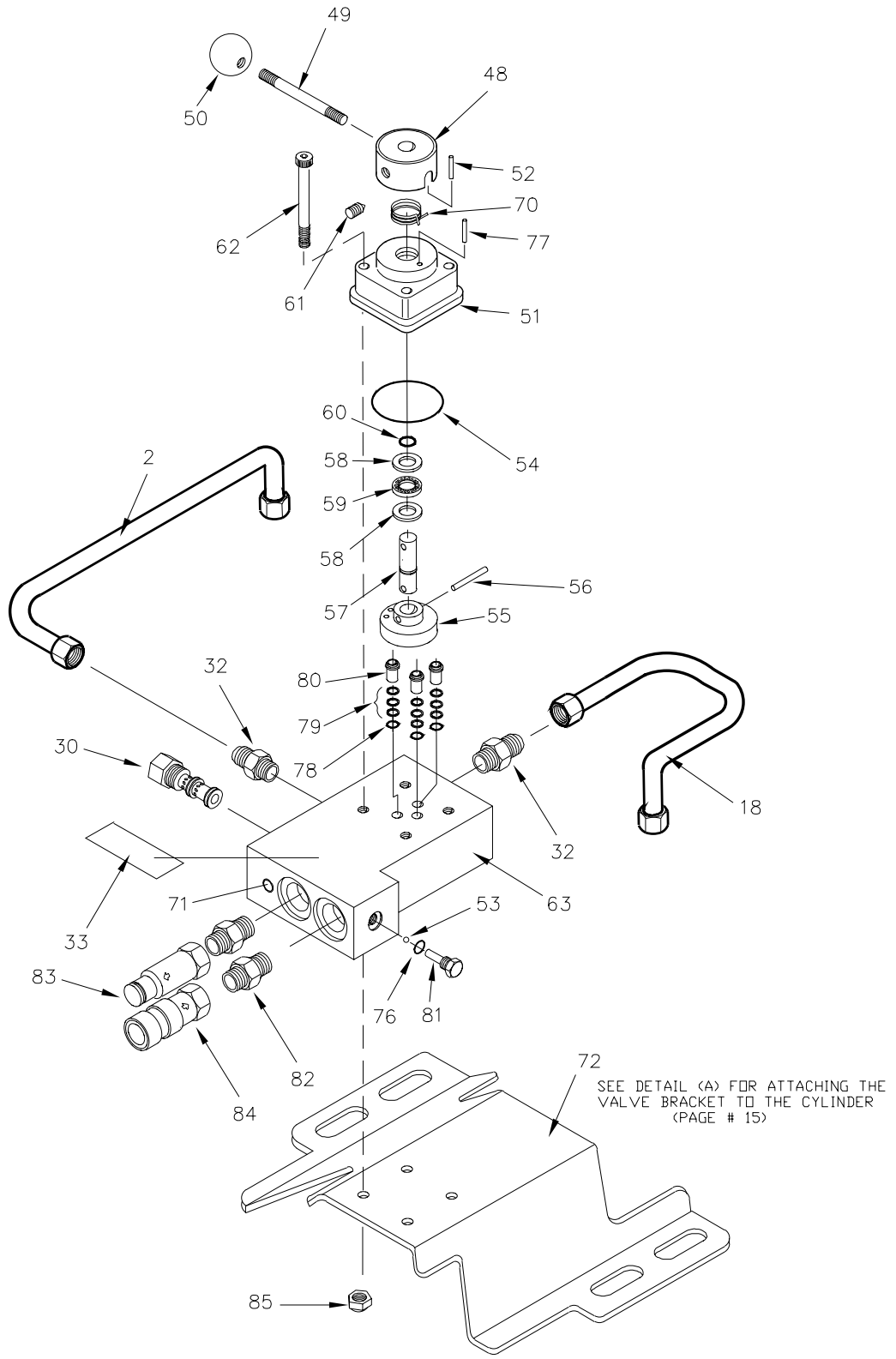
NOTE: Not all Parts found in the seal kit are used in all models. Check your parts list of the specific model you have for the correct part or parts you are installing.

★ 33614 - Rotor Service Assy.

● Denotes part in seal kit

NOTE: Use Part Number and Part Name when ordering.





VALVE BLOCK ASSY WS10301

**CERTIFICATE OF CONFORMITY
 ÜBEREINSTIMMUNGS-ZERTIFIKAT
 CERTIFICAT DE CONFORMITE CEE
 D'UN MARTEAU-PIQUEUR OU D'UN BRISE-BETON EXAMINE
 CERTIFICADO DE CONFORMIDAD
 CERTIFICATO DI CONFORMITA**



I, the undersigned:
 Ich, der Unterzeichnende:
 Je soussigné:
 El abajo firmante:
 Io sottoscritto:

Burrows, James O.

Surname and First names/Familiennamen und Vornamen/Nom et prénoms/Nombre y apellido/Cognome e nome

**hereby certify that the construction plant or equipment specified hereunder:
 bestätigt hiermit, daß die Konstruktion und Ausrüstung wie folgt spezifiziert ist:
 atteste que le brise-béton:
 por el presente certifico que la fabrica o el equipo especificado a continuacion:
 certifico che l'impianto o l'attrezzatura sotto specificata:**

1. Category: Weld Shear
 Kategorie:
 Catégorie:
 Categoria:
 Categoria:

2. Make/Ausführung/Marque/Marca/Fabbricazione **Stanley**

3. Type/Typ/Type/Tipo/Tipo: WS1020001, WS1030101

4. Type serial number of equipment:
 Typ und Serien - Nr. der Ausrüstung:
 Numéro dans la série du type de matériel:
 Numero de serie tipo del equipo:
 Matricola dell'attrezzatura:

All

5. Year of manufacture/Baujahr/année de fabrication/Año de fabricacion/Anno di fabbricazione **2000**

**Has been manufactured in conformity with - EEC Type examination as shown.
 wurde hergestellt in Übereinstimmung mit - EEC Typ-Prüfung nach.
 est fabriqué conformément - au(x) type(s) examiné(s) comme indiqué dans le tableau di-après.
 ha sido fabricado de acuerdo con - tipo examen EEC como dice.
 è stata costruita in conformità con - le norme CEE come illustrato.**

Examen CEE de type				
Directive Richtlinie Directives particulières Directriz Direttiva	No. Nr Numéro No n.	Date Datum Date Fecha Data	Approved body Prüfung durch Organisme agréé Aprobado Collaudato	Date of expiry Ablauf datum Date d'expiration Fecha de caducidad Data di scadenza
EN	292-1, 292-2	1991	Self	N/A

6. Special Provisions: None
 Spezielle Bestimmungen:
 Dispositions particulières:
 Provisiones especiales:
 Misure special:

Done at/Ort/Fait à/Dado en/Fatto a Stanley Hydraulic Tools, Milwaukie, Oregon USA Date/Datum/le/Fecha/Data 9/19/2002

Signature/Unterschrift/Signature/Firma/Firma 

Position/Position/Fonction/Puesto/Posizione Engineering Manager



Stanley Hydraulic Tools

Division of the Stanley Works

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