

Forward

This manual contains information for the safe and proper operation and maintenance of the shear. Read the entire manual and the manual provided with the base machine before the initial start-up of the shear. It is important to know the correct operating procedures of the shear and all safety precautions to prevent the possibility of property damage and personal injury.

The LaBounty attachment has been designed and manufactured with high quality materials and care in workmanship. The instructions in this manual have been prepared to assist that, when followed properly, the attachment will provide efficient and reliable service.

Continuing product development and improvement may have caused changes in the attachment which are not reflected in this manual. If a question arises regarding the operation or maintenance of the attachment, contact a LaBounty dealer for the most current information available.



Reference Information

All requests for information, service or spare parts should include attachment model and serial number. For the nearest LaBounty dealer contact:

Stanley LaBounty
1538 Highway 2
Two Harbors, Minnesota 55616-8015 USA

Phone: (218) 834-2123
Fax: (218) 834-3879

Attachment

Model No. MSD 50R-III

Serial No. 50839

Excavator Model Hitachi FH450 LCH-3

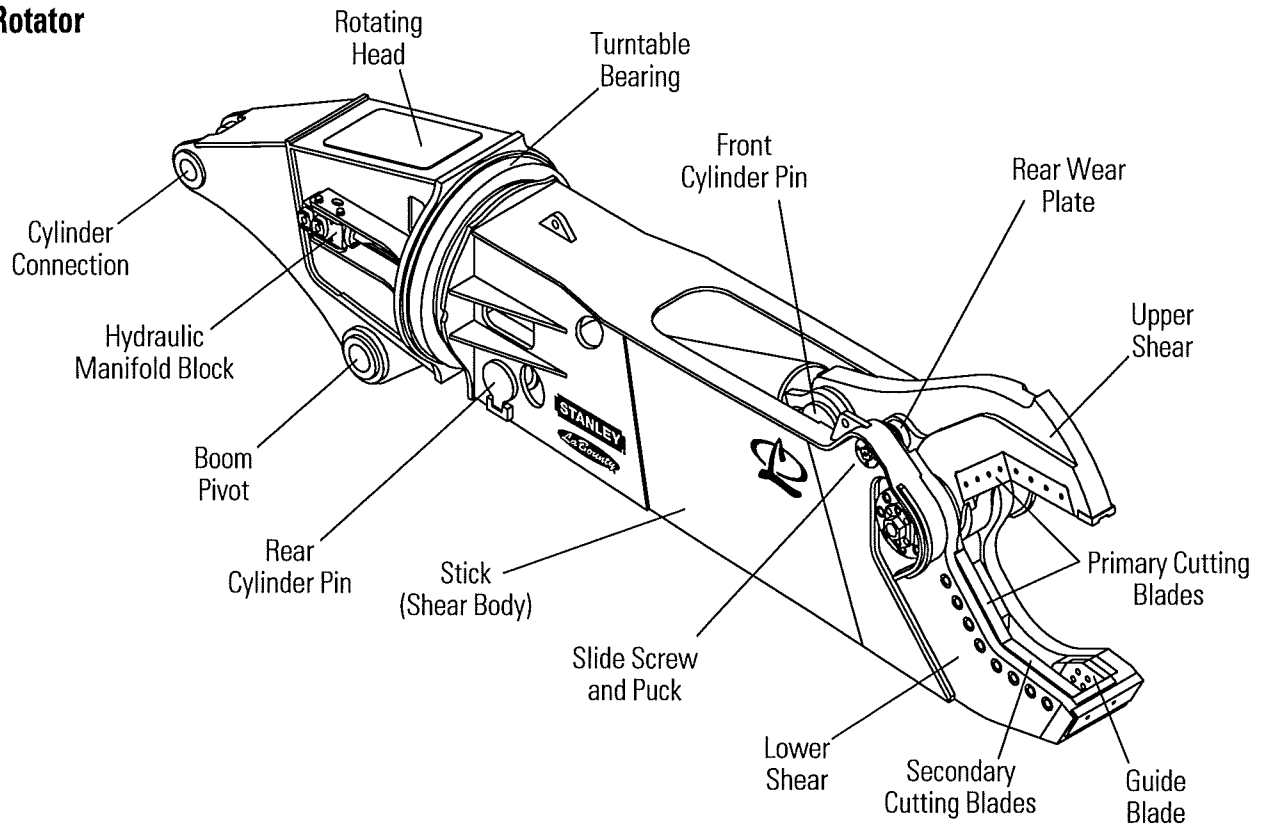
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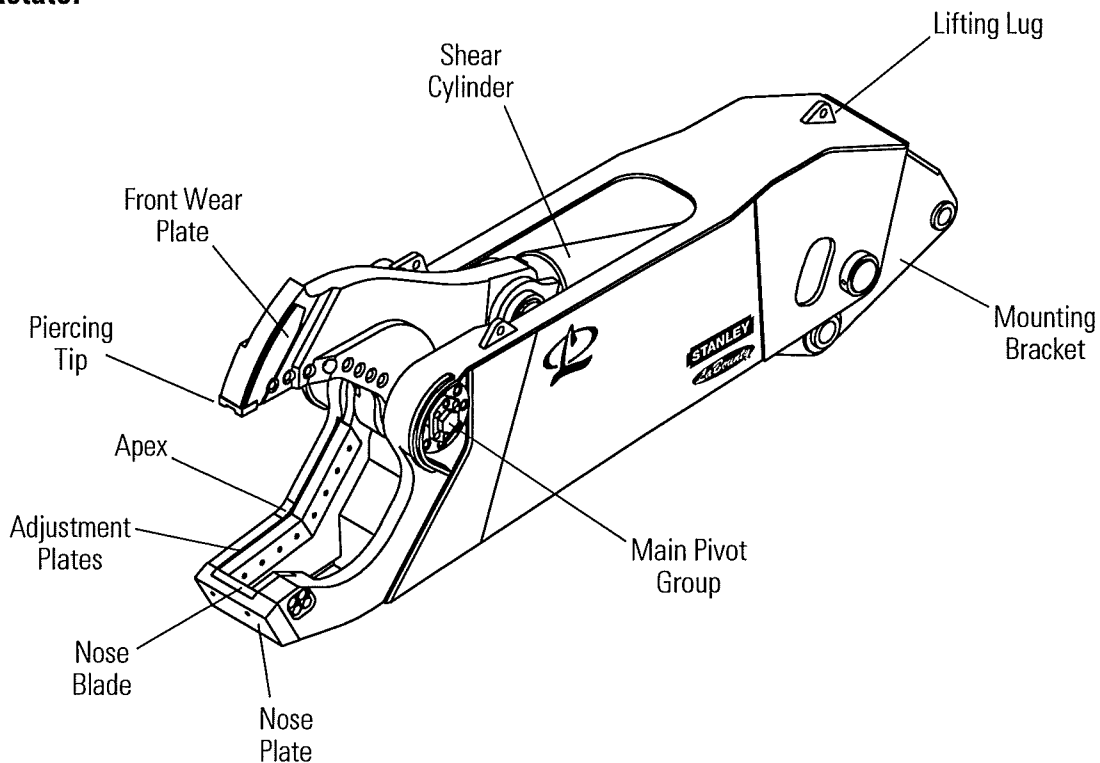
SEQUENCE

Model Description

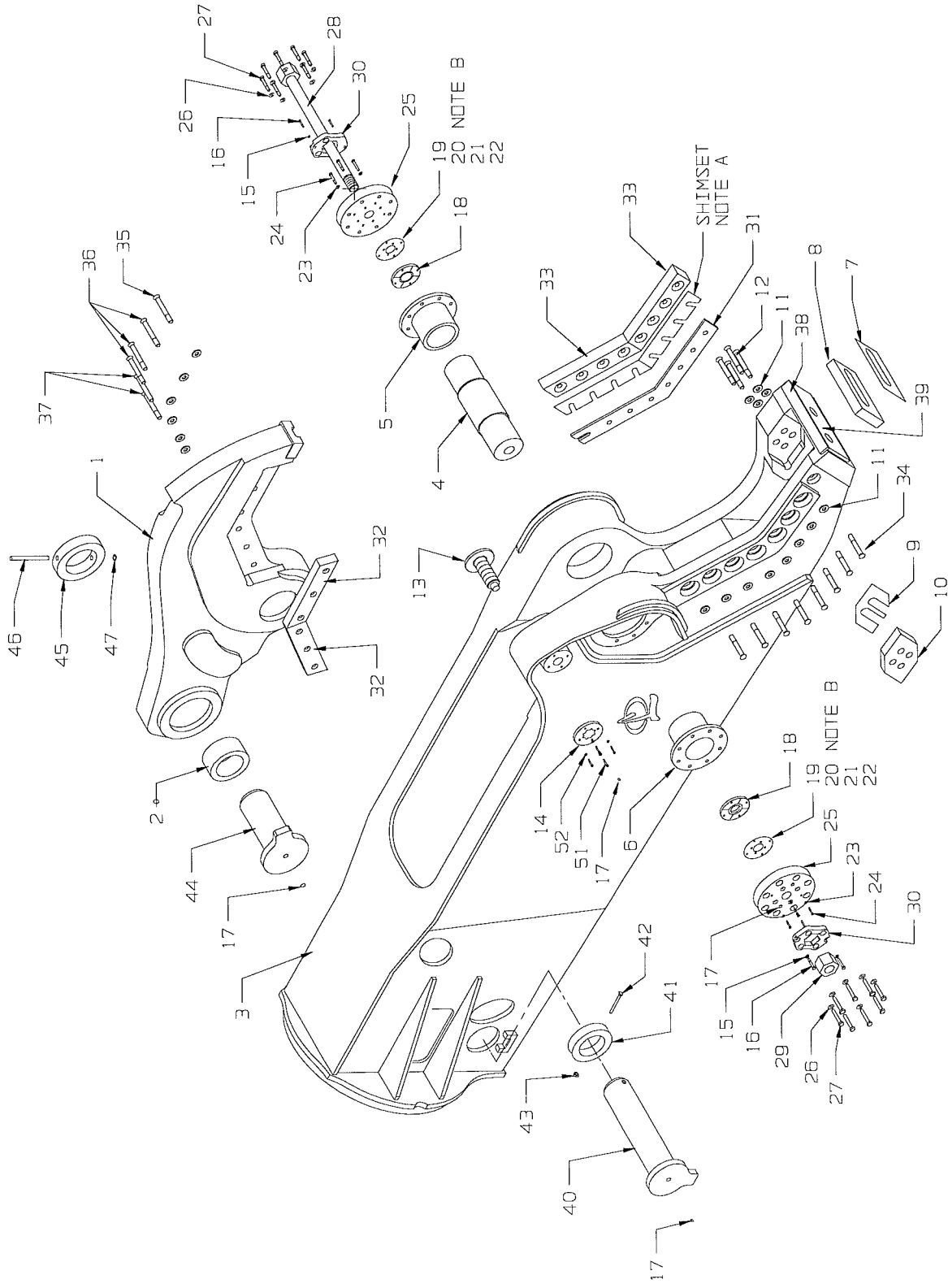
Rotator



Non-Rotator



BASIC ASSEMBLY 139843

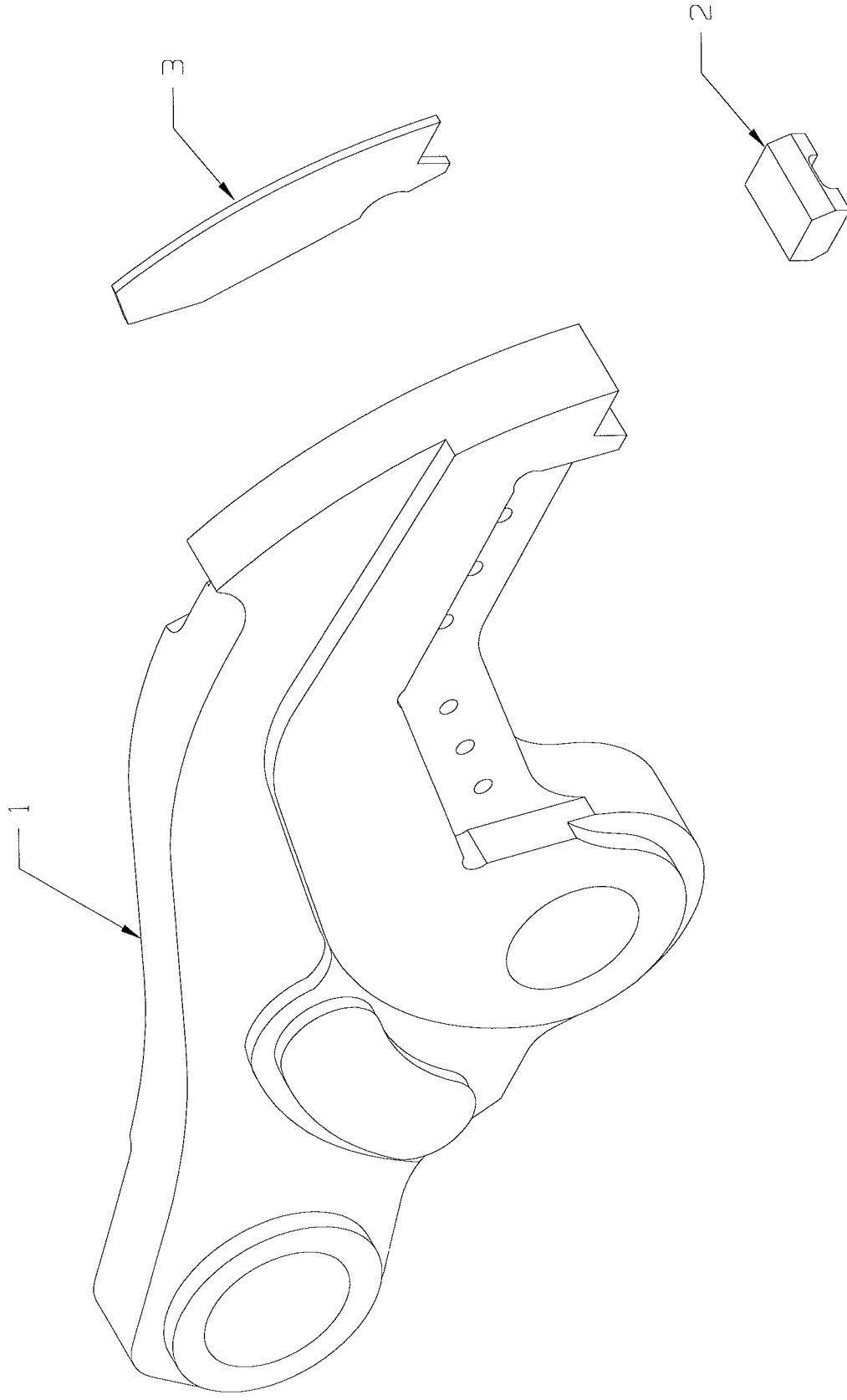


BASIC ASSEMBLY**139843****Rev 03**

Item	Part Number	Description	Quantity
1	139829	UPPER SHEAR WELDMENT	1
2	139566	BUSHING MACHINING	1
3	139844	SHEAR STICK WELDMENT/MACHINING	1
4	136854	SHAFT MACHINING	1
5	136857	BEARING MACHINING	1
6	136856	BEARING MACHINING	1
7	510759	NOSE BLADE SHIMSET	1
8	510757	NOSE BLADE MACHINING	1
9	510765	GUIDE BLADE SHIM SET	1
10	510764	GUIDE BLADE MACHINING	1
11	501445	FLAT WASHER	18
12	510824	HEX HEAD CAPSCREW	4
13	137568	SLIDE SCREW MACHINING	1
14	137878	SLIDE SCREW LOCK PLATE	1
15	501554	FLAT WASHER	4
16	501548	HEX HEAD CAPSCREW	4
17	503857	GREASE ADAPTER	7
18	137567	THRUST WASHER MACHINING	2
19	510646	THRUST WASHER SHIM	4
20	510647	THRUST WASHER SHIM	4
21	510648	THRUST WASHER SHIM	4
22	510649	THRUST WASHER SHIM	2
23	503879	FLAT WASHER	8
24	501189	HEX HEAD CAPSCREW	8
25	139507	ENDCAP MACHINING	2
26	501489	FLAT WASHER	16

Item	Part Number	Description	Quantity
27	502492	HEX HEAD CAPSCREW	16
28	139539	TIE-ROD WELDMENT	1
29	139540	NUT MACHINING	1
30	139506	LOCK PLATE MACHINING	2
31	139145	ADJUSTMENT PLATE MACHINING	1
32	510627	BLADE MACHINING	2
33	510526	BLADE MACHINING	2
34	510818	HEX HEAD CAPSCREW	8
35	501518	HEX HEAD CAPSCREW	1
36	501626	HEX HEAD CAPSCREW	3
37	501627	HEX HEAD CAPSCREW	2
38	136778	WEAR PLATE	1
39	140486	WEAR PLATE	1
40	510809	PIN ASSEMBLY	1
41	139567	COLLAR MACHINING	1
42	501173	HEX HEAD CAPSCREW	1
43	501571	HEX NUT W/NYLOCK	1
44	510808	PIN ASSEMBLY	1
45	136890	COLLAR MACHINING	1
46	136901	PIN MACHINING	1
47	503434	RETAINER	1
48	115938	PINKEEPER PLATE	1
49	141136	LABEL INSTALLATION	1
50	137573	SERVICE KIT	1
51	502493	HEX HEAD CAPSCREW	4
52	501446	FLAT WASHER	4

UPPER SHEAR WELDMENT
139829



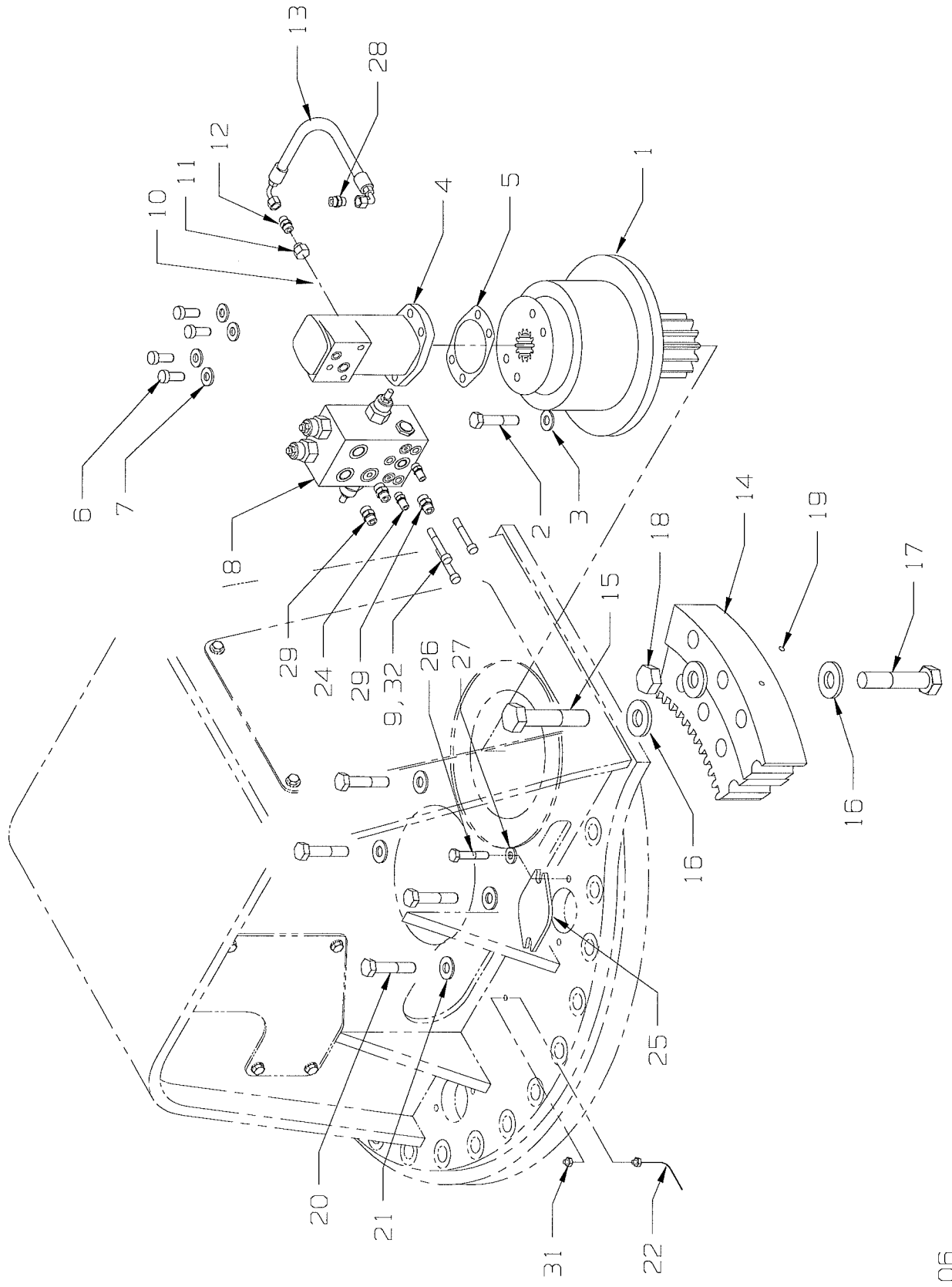
UPPER SHEAR WELDMENT

139829

Rev 02

Item	Part Number	Description	Quantity
1	139830	UPPER SHEAR WELDMENT/MACHINING	1
2	510916	TIP CASTING	1
3	137411	WEAR PLATE	1

ROTATION ASSEMBLY 153260



ROTATION ASSEMBLY

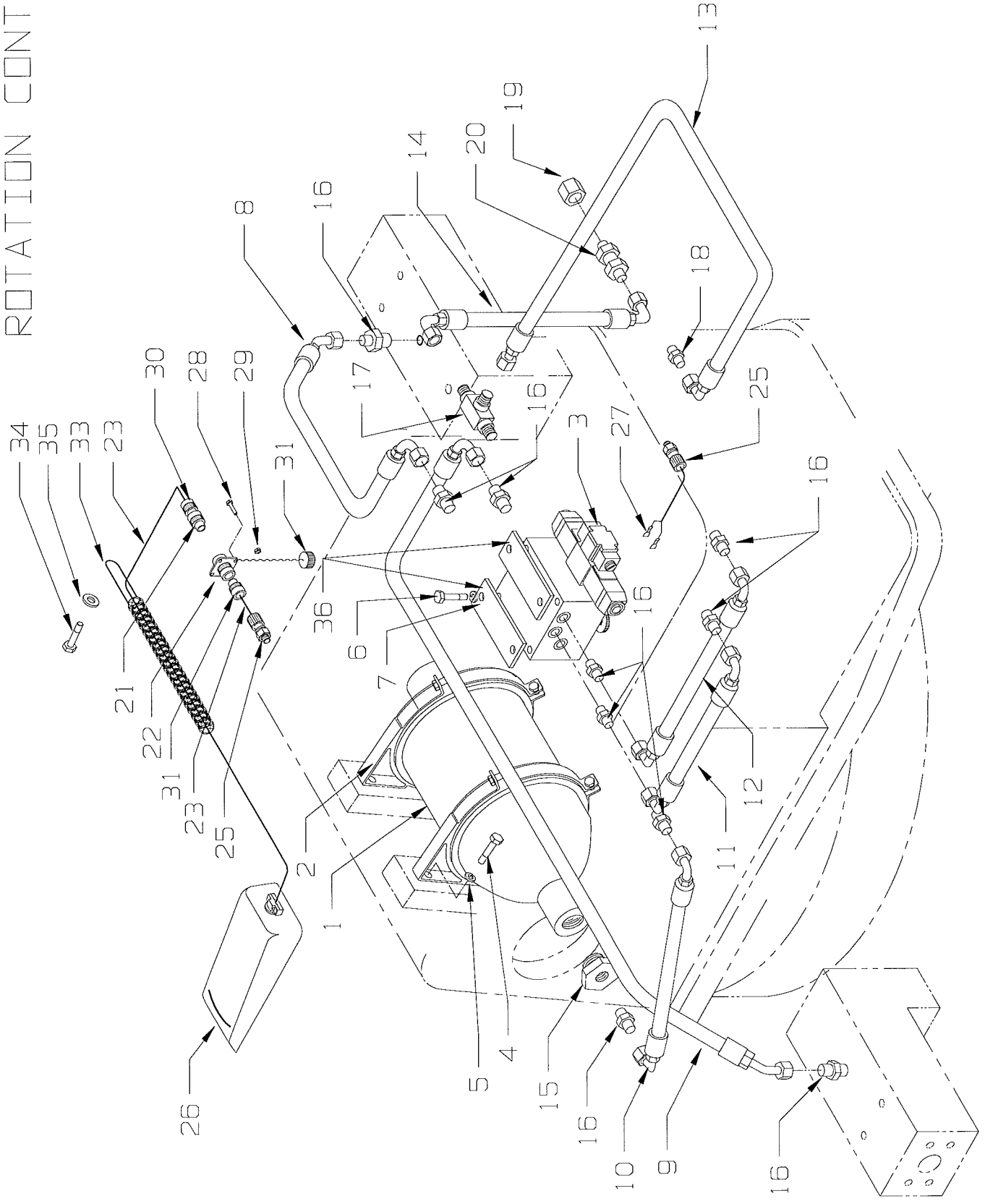
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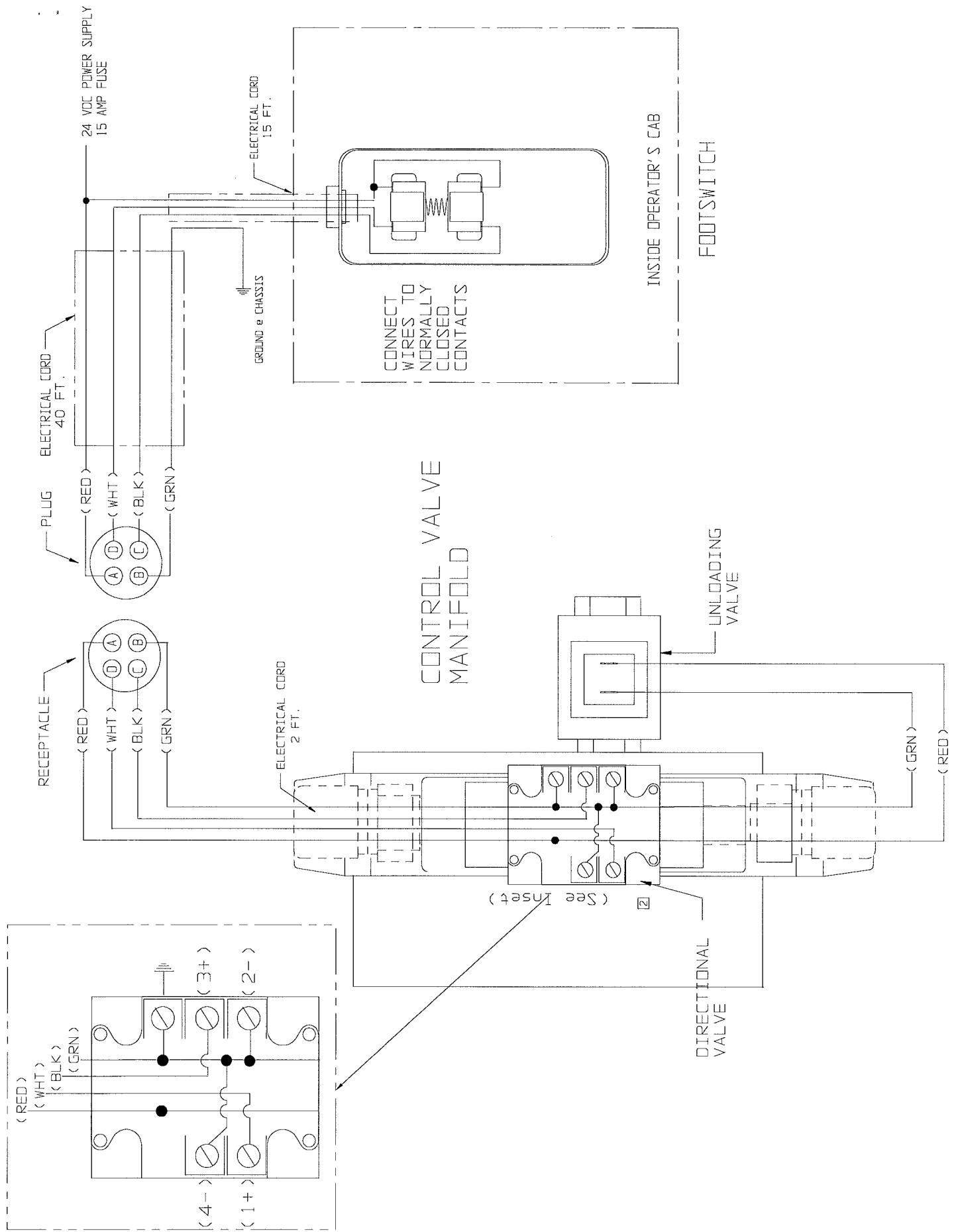
Rev 06

Item	Part Number	Description	Quantity
1	503449	PLANETARY GEARBOX	1
2	501549	HEX HEAD CAPSCREW	9
4	503450	HYDRAULIC MOTOR	1
5	502219	GASKET SEAL	1
6	510662	SOCKET HEAD CAPSCREW	4
7	510105	M12 FLAT WASHER	4
8	510665	CONTROL VALVE	1
9	503092	HEX HEAD CAPSCREW	3
10	501684	SEAL	1
11	501685	ADAPTER	1
12	500916	HYDRAULIC ADAPTER	1
13	108573	HOSE ASSEMBLY	1
14	501347	BEARING	1
15	501626	HEX HEAD CAPSCREW	30
16	501445	FLAT WASHER	90
17	501627	HEX HEAD CAPSCREW	30
18	501522	HEX NUT	30
19	503857	GREASE ADAPTER	4
20	501585	HEX HEAD CAPSCREW	4
21	501589	LOCK WASHER	4
22	107435	TUBE ASSEMBLY	2
24	502290	DIAGNOSTIC ADAPTER	2
25	151404	COVER PLATE	4
26	501581	HEX HEAD CAPSCREW	8
27	501446	FLAT WASHER	8
28	500940	HYDRAULIC ADAPTER	1

Item	Part Number	Description	Quantity
29	500917	HYDRAULIC ADAPTER	3
31	502172	GREASE ADAPTER	2
32	500237	FLAT NARROW WASHER	3

ROTATION CONTROL KIT 153261





ROTATION CONTROL KIT

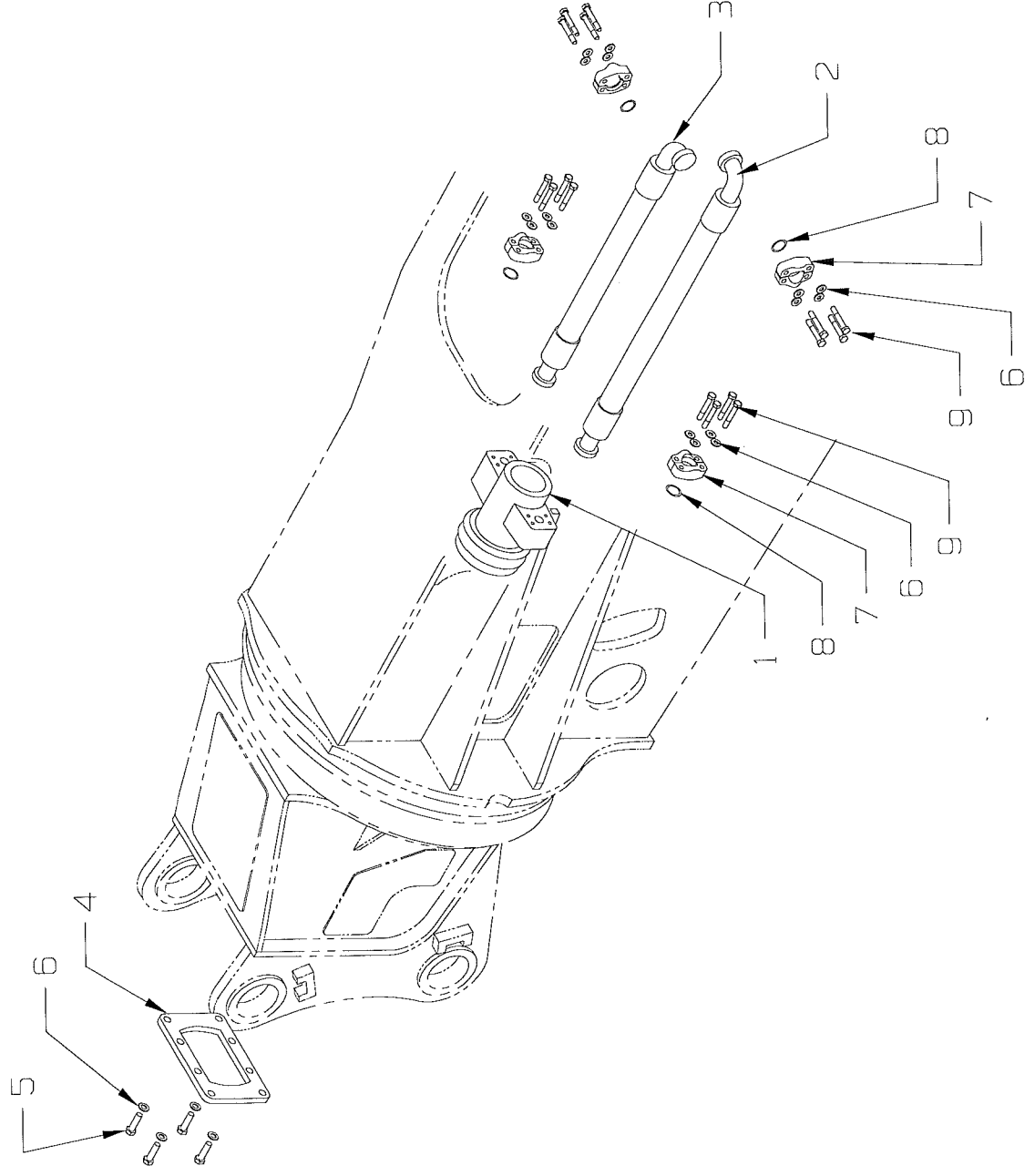
153261

Rev 03

Item	Part Number	Description	Quantity
1	503448	1.0 GALLON ACCUMULATOR	1
2	510677	ACCUMULATOR CLAMP BRACKET	2
3	503205	CONTROL VALVE	1
4	503452	HEX HEAD CAPSCREW	4
5	503646	LOCK WASHER	4
6	500227	HEX HEAD CAPSCREW	4
7	500140	LOCK WASHER	4
8	153351	HOSE ASSEMBLY	1
9	153352	HOSE ASSEMBLY	1
10	153353	HOSE ASSEMBLY	1
11	153354	HOSE ASSEMBLY	1
12	153355	HOSE ASSEMBLY	1
13	153356	HOSE ASSEMBLY	1
14	153357	HOSE ASSEMBLY	1
15	502686	HYDRAULIC ADAPTER	1
16	500917	HYDRAULIC ADAPTER	10
17	502145	HYDRAULIC ADAPTER	1
18	500946	HYDRAULIC ADAPTER	1
19	501026	HYDRAULIC ADAPTER	1
20	500919	HYDRAULIC ADAPTER	1
21	503408	ELECTRIC PLUG	1
22	503409	ELECTRIC PLUG	1
23	503357	ELECTRIC CORD	60
25	503184	ELECTRIC RELIEF	2
26	502401	FOOT SWITCH	1
27	503342	ELECTRIC CONNECTOR	2

Item	Part Number	Description	Quantity
28	503603	SCREW	4
29	503604	HEX NUT	4
30	503411	ELECTRIC CLAMP	1
31	503410	ELECTRIC CAP	1
32	109276	BAR	1
33	510737	ELECTRICAL CORD SUPPORT	1
34	501190	HEX HEAD CAPSCREW	1
35	503879	FLAT WASHER	1
36	138605	RUBBER STRIP	2

HYDRAULIC ASSEMBLY 140320



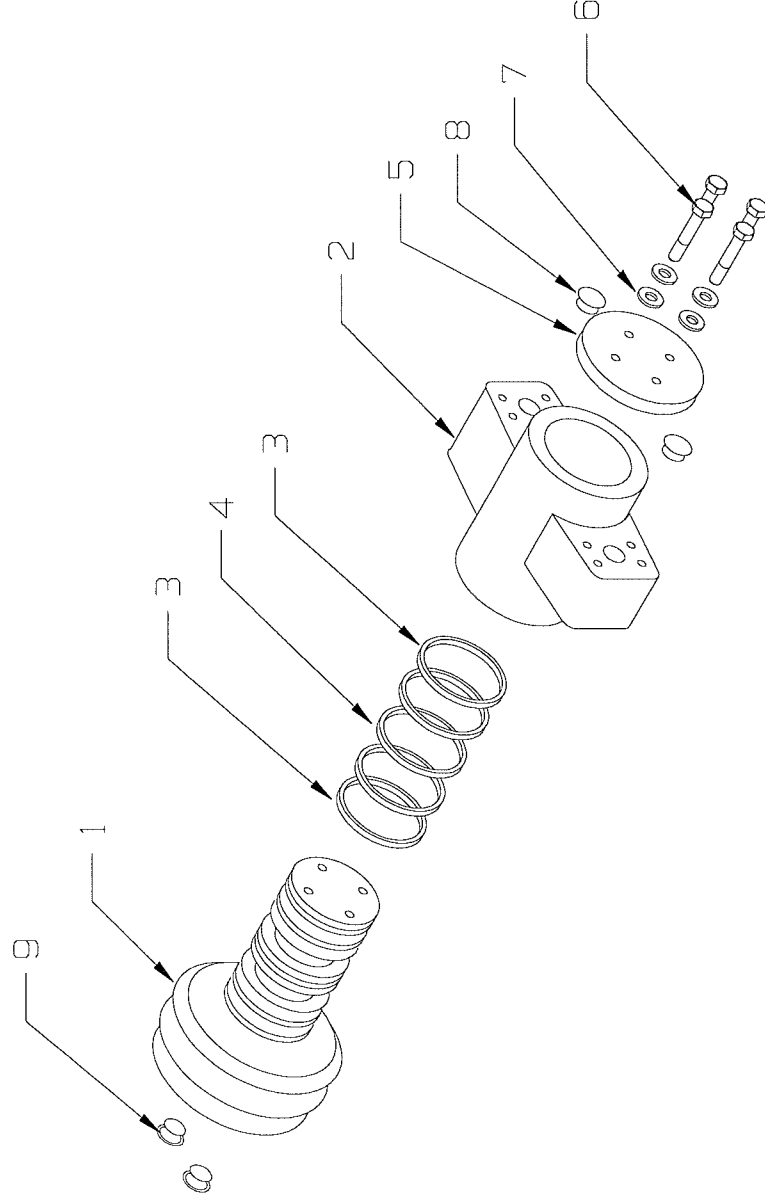
HYDRAULIC ASSEMBLY

140320

Rev 00

Item	Part Number	Description	Quantity
1	153468	MANIFOLD ASSEMBLY	1
2	139731	HOSE ASSEMBLY	1
3	139732	HOSE ASSEMBLY	1
4	108879	STOP	1
5	501585	HEX HEAD CAPSCREW	4
6	501589	LOCK WASHER	20
7	500098	CODE 62 SPLIT FLANGE HALF	8
8	500101	O-RING SEAL	4
9	501553	HEX HEAD CAPSCREW	16

MANIFOLD ASSEMBLY 153468



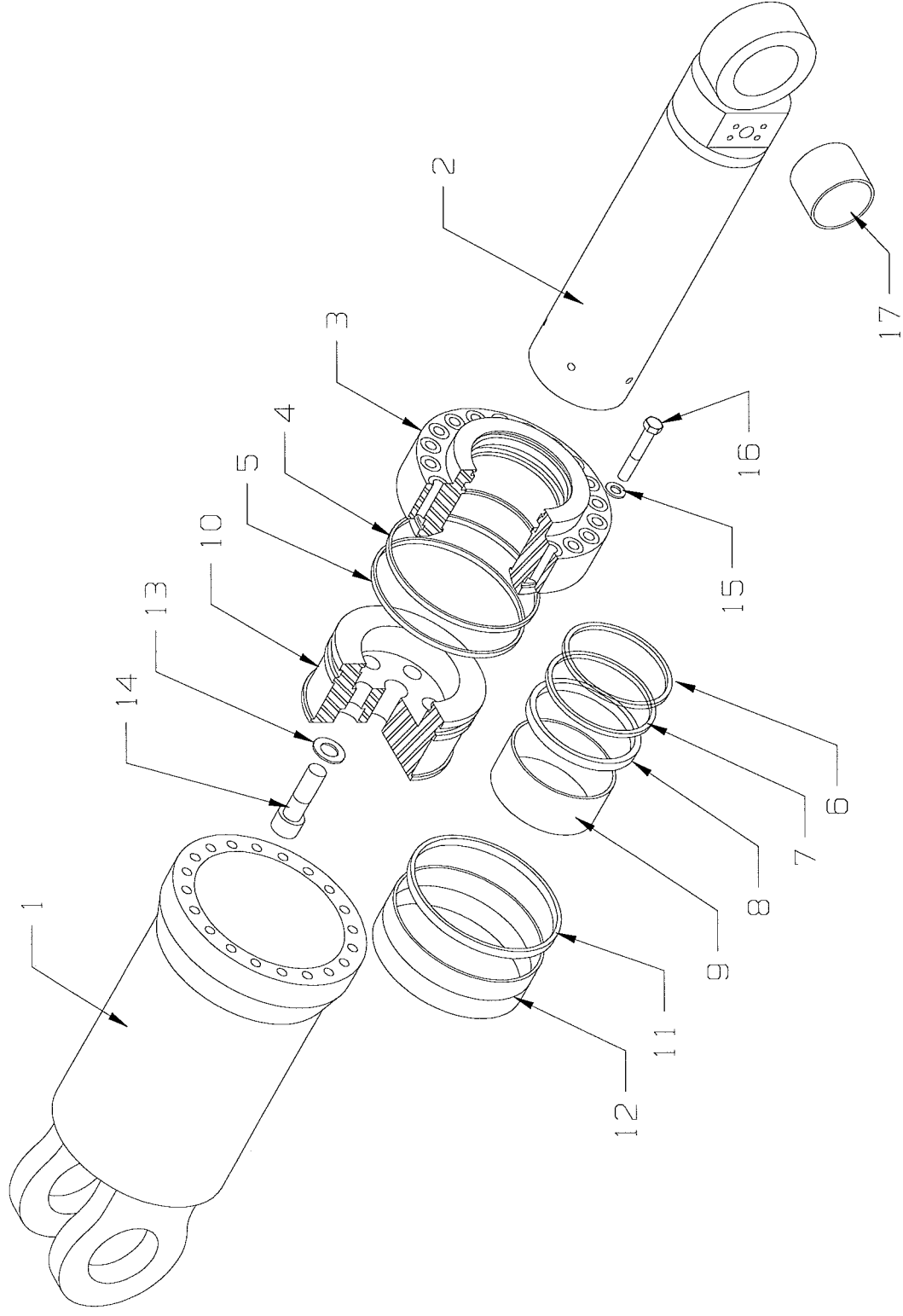
MANIFOLD ASSEMBLY

153468

Rev 0

Item	Part Number	Description	Quantity
1	117682	SPOOL MACHINING	1
2	152252	HOUSING	1
3	500857	O-RING SEAL	2
4	500537	CROWN SEAL	3
5	114273	STOP	1
6	501550	HEX HEAD CAPSCREW	4
7	501588	LOCK WASHER	4
8	501618	HYDRAULIC ADAPTER	2
9	501617	HYDRAULIC ADAPTER	2

CYLINDER ASSEMBLY 137587



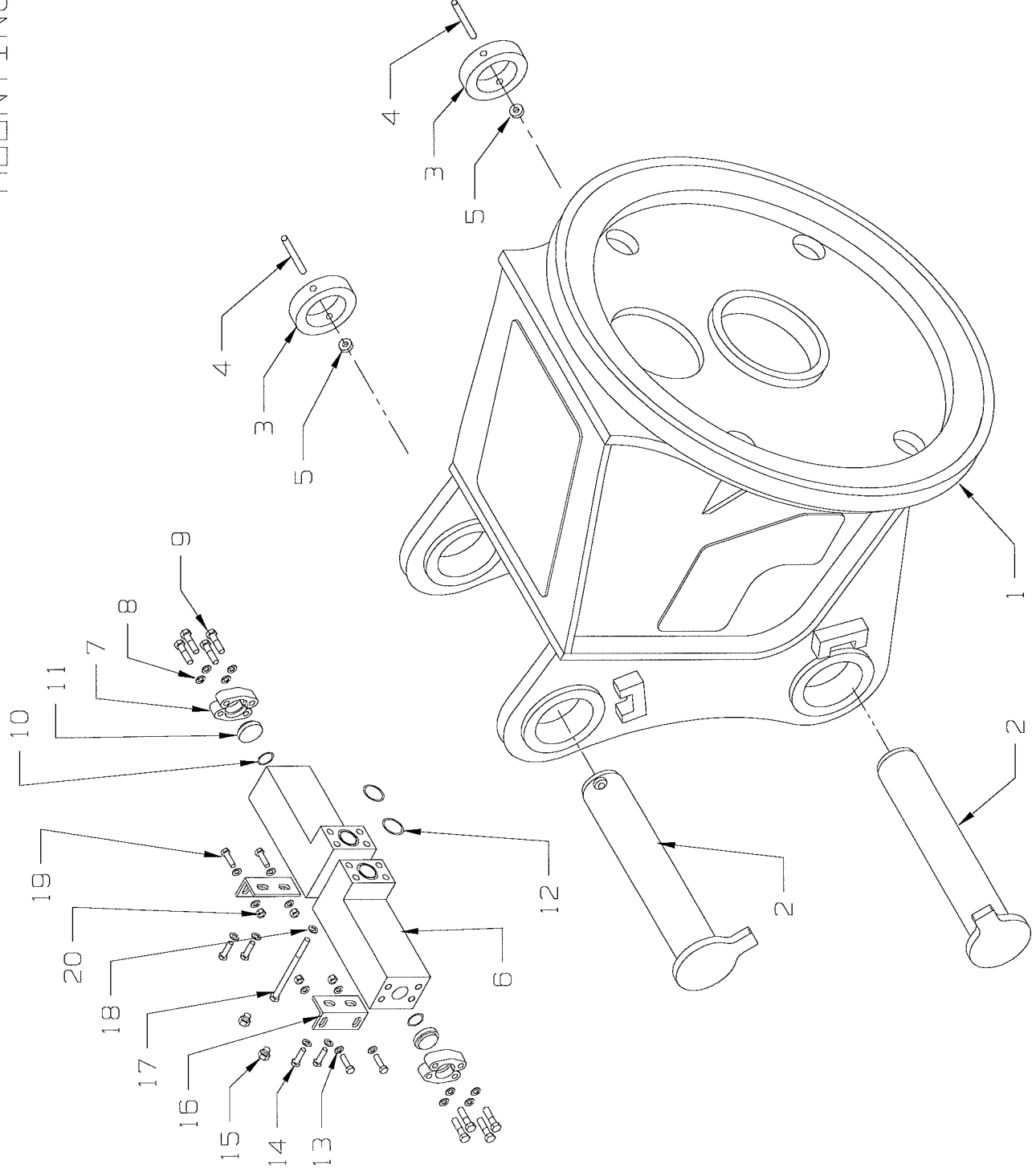
CYLINDER ASSEMBLY

137587

Rev 02

Item	Part Number	Description	Quantity
1	140499	TUBE OPTION(S)	1
2	139842	ROD WELDMENT AND MACHINING	1
3	140064	HEAD MACHINING	1
4	502899	T-SEAL	1
5	501765	O-RING SEAL	1
6	502893	POLY SEAL	1
7	502890	DEEP Z-SEAL	1
8	502895	BUFFER SEAL	1
9	502900	WEAR RING SEAL	5
10	140065	PISTON MACHINING	1
11	502885	CAPPED T-SEAL	1
12	502889	WEAR RING SEAL	6
13	501462	FLAT WASHER	5
14	503106	SOCKET HEAD CAPSCREW	5
15	501489	FLAT WASHER	24
16	502160	HEX HEAD CAPSCREW	24
17	139565	BUSHING MACHINING	1

MOUNTING ASSEMBLY 142516



MOUNTING ASSEMBLY

142516

Rev 00

Item	Part Number	Description	Quantity
1	142517	UPPER HEAD WELDMENT MACHINING	1
2	139328	PIN WELDMENT	2
3	117894	COLLAR MACHINING	2
4	501173	HEX HEAD CAPSCREW	2
5	501571	HEX NUT W/NYLOCK	2
6	140316	MANIFOLD MACHINING	2
7	500090	CODE 62 SPLIT FLANGE HALF	4
8	501588	LOCK WASHER	8
9	501549	HEX HEAD CAPSCREW	8
10	500100	O-RING SEAL	2
11	500091	FLANGE PLUG	2
12	500101	O-RING SEAL	2
13	501446	FLAT WASHER	12
14	501581	HEX HEAD CAPSCREW	4
15	501890	HEX PLUG	2
16	108796	ANGLE	2
17	502118	HEX HEAD CAPSCREW	8
18	501554	FLAT WASHER	8
19	502493	HEX HEAD CAPSCREW	4
20	502133	HEX NUT W/NYLOCK	4

Hydraulic Installation Requirements

Cylinder Circuit

Recommended Flow	124 - 186 GPM
Recommended Pressure	3600 PSI (minimum) 4350 PSI (maximum)

Rotation Circuit

Flow	8 - 10 GPM (recommended) 12 GPM (maximum)
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The hydraulic rotation motor is equipped with factory adjusted flow controls. They are set for normal operation of the motor and are adjustable for speed preference (see Safety, Operation and Maintenance Manual).

*Maximum input flow is not advised for continuous duty due to inefficiency of the circuit. If an OEM auxiliary circuit is not available with these requirements, the LaBounty Rotation kit should be used.

Pressure	2000 - 2500 PSI (recommended) 2500 PSI (maximum)
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The hydraulic rotation motor is equipped with a factory adjusted crossover relief valve. This valve has been installed to prevent damaging the motor due to excessive pressure from machine or overrunning loads. Any adjustment to valve without consulting factory will void warranty.

Attachment Model _____ Excavator Hour Meter _____

Attachment Serial Number _____ Date _____

8 Hour Inspection Checklist

- _____ 1. Visually inspect shear for any damage
- _____ 2. Inspect safety devices
 - _____ a. All safety decals in place and legible - see decal and label maintenance section
 - _____ b. All cab protection in good condition
 - _____ c. All excavator warning systems working
- _____ 3. Lubricate all points -- refer to lubrication section of the manual
 - _____ a. Each side of main pivot group (2 each side)
 - _____ b. End of slide puck assembly
 - _____ c. End of front cylinder pin
 - _____ d. End of rear cylinder pin
 - _____ e. Boom pivot connection of mounting bracket
 - _____ f. Cylinder connection of mounting bracket
- _____ 4. Inspect connecting pins and pin retaining hardware
 - _____ a. Boom pivot pin of mounting bracket
 - _____ b. Cylinder connection pin of mounting bracket
 - _____ c. Front shear cylinder pin
 - _____ d. Rear shear cylinder pin
 - _____ e. Pinheads and pinkeepers
- _____ 5. Inspect all bolts
 - _____ a. Visually check all bolts for looseness or damage
- _____ 6. Check slide puck/back wear plate gap
 - _____ a. Refer to manual if gap exceeds 0.010" (0.25 mm)
- _____ 7. Check guide blade/front wear plate gap
 - _____ a. Refer to manual if gap exceeds 0.030" (0.76 mm)
- _____ 8. Check cutting blade gap
 - _____ a. Refer to manual if gap exceeds 0.010" (0.25 mm)
- _____ 9. Inspect piercing tip
 - _____ a. Piercing tip fits squarely in lower jaw
- _____ 10. Inspect nose blade for looseness or damage
- _____ 11. Inspect Hydraulic System
 - _____ a. Inspect hoses for wear and potential failure
 - _____ b. Inspect hose connections for leaks
 - _____ c. Inspect cylinder for leaks

INSPECTED BY: _____

8 Hour Inspection Checklist

If rotator equipped:

- _____ 1. Visually check all turntable bearing bolts and replace any that are loose or damaged
- _____ 2. Grease the turntable bearing -- refer to Rotator Maintenance section for instructions
- _____ 3. Inspect the rotation hydraulics system
 - _____ a. Inspect rotation hoses for wear and potential failure
 - _____ b. Inspect rotation hose connections for leaks
- _____ 4. Visually check all rotation assembly bolts

INSPECTED BY: _____

Attachment Model _____ Excavator Hour Meter _____

Attachment Serial Number _____ Date _____

80 Hour Inspection Checklist

- _____ 1. Inspect Blades
- _____ a. Rotate or replace upper cutting blades
 - _____ b. Rotate or replace lower cutting blades, nose blade, and guide blade
 - _____ b. Measure blade gap, refer to manual for shimming procedure and tolerance range
- _____ 2. Inspect Upper Shear
- _____ a. Replace or build-up and hardsurface piercing tip if necessary
 - _____ b. Replace front wear plate if necessary
 - _____ c. Build-up and hardsurface upper shear
- _____ 3. Inspect Lower Shear
- _____ a. Build-up and hardsurface lower shear

If Rotator Equipped:

- _____ 1. Inspect all bolts connecting the turntable bearing to the upper head and shear
- _____ a. Replace bolts if retorque is necessary.

INSPECTED BY: _____

Additional copies of this publication are available at the cost of \$15.00* each by contacting your dealer or the LaBounty Parts Department and requesting "Safety, Operation and Maintenance Manual" number T119710.

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* Price subject to change without notice.