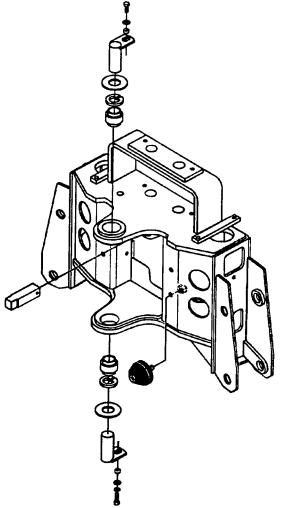
408N POWER BACKHOE

BRADCO.



PARTS MANUAL

BRADCO *

P.O. Box 266 · Delhi, lowa 52223 USA (319) 922-2981 (800) 922-2981

Fax 319-922-2130

A Division of ATI Incorporated Construction Machinery Since 1964

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		- A



LIMITED WARRANTY

EFFECTIVE MARCH 1, 1986

All new Bradco products are warranted by ATI Incorporated (formerly American Trencher Inc.) to be free from defects in materials or workmanship which may cause failure under normal usage and service when used for the purpose intended.

In the event of failure within twelve (12) months from initial retail sale, lease or rental date (excluding cable, ground engaging parts such as sprockets, digging chain, bearings, teeth, tamping and demolition heads, and blade cutting edges), if after examination, ATI determines failure was due to defective material and/or workmanship, parts will be repaired or replaced by ATI Incorporated. ATI may request defective part or parts be returned prepaid to them for inspection at their place of business at Delhi, lowa, or to a location specified by ATI.

Any claims under this warranty must be made within fifteen (15) days after the Buyer learns of the facts upon which such claim is based. All claims not made in writing and received by ATI within the time period specified above shall be deemed waived.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EX-PRESSED OR IMPLIED AND THERE ARE NO WARRANTIES OF MERCHANT-ABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL ATI BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGE.

ATI'S LIABILITY FOR ANY AND ALL LOSSES AND DAMAGES TO BUYER, RESULTING FROM ANY CAUSE WHATSOEVER, INCLUDING ATI'S NEGLIGENCE, IRRESPECTIVE OF WHETHER SUCH DEFECTS ARE DISCOVERABLE OR LATENT, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PARTICULAR PRODUCTS WITH RESPECT TO WHICH LOSSES OR DAMAGES ARE CLAIMED, OR, AT THE ELECTION OF ATI, THE REPAIR OR REPLACEMENT OF DEFECTIVE OR DAMAGED PRODUCTS.

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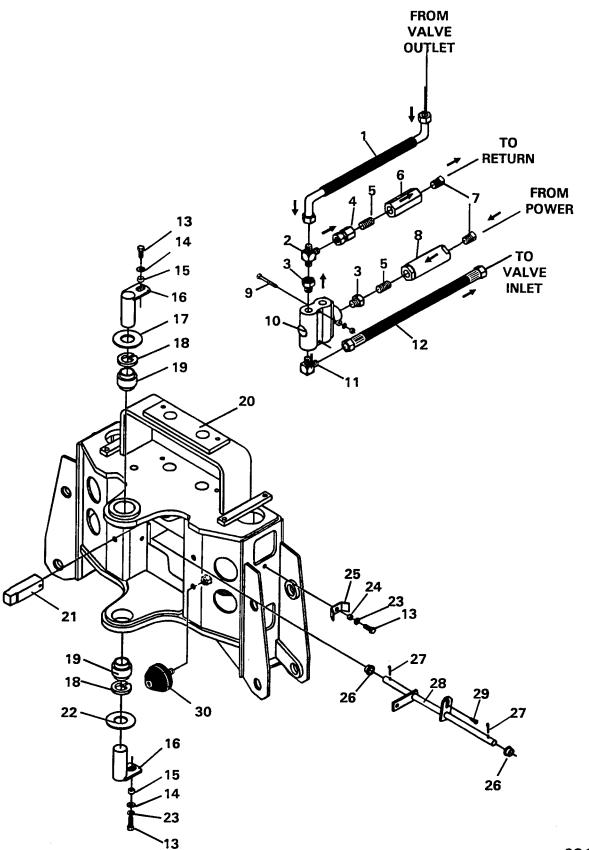
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SWING SPEED CONTROL#83337
CYLINDERS SWING CYLINDER #81827 STABILIZER CYLINDER #83397 BOOM CYLINDER #81611 DIPPER CYLINDER #81641 BUCKET CYLINDER #81634
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STABILIZER PAD OPTIONS FLAT STABILIZER PAD ASSEMBLY #81861 GROUSER STABILIZER PAD ASSEMBLY #81860 RUBBER STABILIZER PAD ASSEMBLY #81862
BUCKET OPTIONS 10" BUCKET #81710 12" BUCKET "81712 16" BUCKET #81716 18" BUCKET #81718 24" BUCKET #81724
FIRST LINE REPAIR KIT #83649
DECALS #40207

MAINFRAME ASSEMBLY

ASSEMBLY #81812 MAINFRAME



6810 1-29-96

- MAINFRAME ASSEMBLY —

ASSEMBLY #81812 MAINFRAME

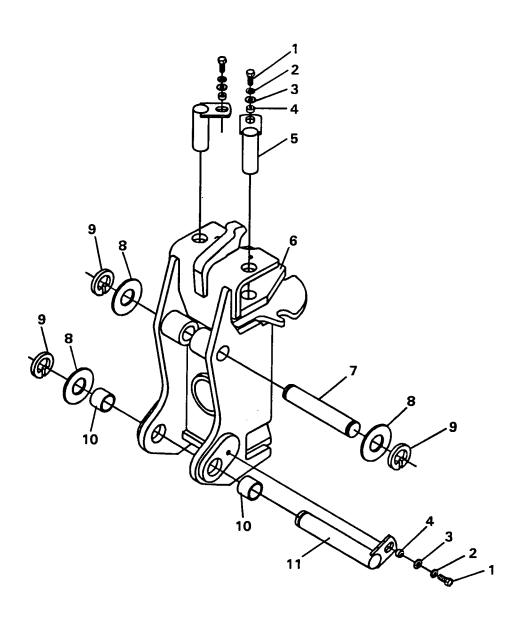
NO	REQ'D	PART NO.	DESCRIPTION
1	1	37554	Hose .50" X 36"
•	•	37354	8FJX 90° Short Gooseneck - 8FJX 90° Short Gooseneck
2	1	3327	Tee
3	2	3049	Bushing 12MP-8FP
4	1	3273	Coupling 8FP-8FJX
5	2	3211	Close Nipple .50" NPT
6	1	45137	Check Valve
7	2	3189	Square Head Plug
8	1	45132	Inline Filter
9	2	1010	.25" UNC X 2.75" Hex Capscrew
_	2	81595	Spacer Spacer
	8	1512	.25" Flat Washer
	2	1501	.25" Lock Washer
	2	1224	.25" UNC Hex Nut
10	1	82837	Priority Flow Divider
11	1	3139	90° Adapter 6MP-8MJ
12	1	37577	Hose .50" X 35" 8FJX-8FJX
13	4	1043	.38" UNC X 1.00" Hex Capscrew
			(Two pin retaining capscrews installed
			with Locktite Grade 242)
14	2	1514	.38" Flat Washer
15	2	81807	Spacer Tube
16	2	81592	Pin
	2	6616	Grease Zerk
17	1	83977	Thrust Washer 1.38" X .125"
18	2	1929	Snap Ring
19	2	6615	Bearing
20	1	82834	Mainframe (Includes (4) #83815 Bushings
			Installed with Locktite Grade 680)
21	1.	82090	Swing Lock Pin
22	As Req'd	83975	Thrust Washer 1.38" X .031"
	As Req'd	83976	Thrust Washer 1.38" X .090"
	As Req'd	83977	Thrust Washer 1.38" X .125"
23	3	1503	.38" Lock Washer
24	2	6799	Spacer
25	2	6186	Hose Clamp
26	2	82794	Bushing
27	2	1611	Cotter Pin .12 X 1.00"
28	1	82796	Linkage
29	1	1924	Shoulder Screw
30	4	6886	Rubber Bumpers
	4.	1542	.50" UNC Lock Nut
NOTE:	Use thrust	washers (Item	1 #22) to adjust mainframe / swing post to

NOTE: Use thrust washers (Item #22) to adjust mainframe / swing post to minimum free play.

6811

MAINFRAME ASSEMBLY-

ASSEMBLY #81812 SWING POST



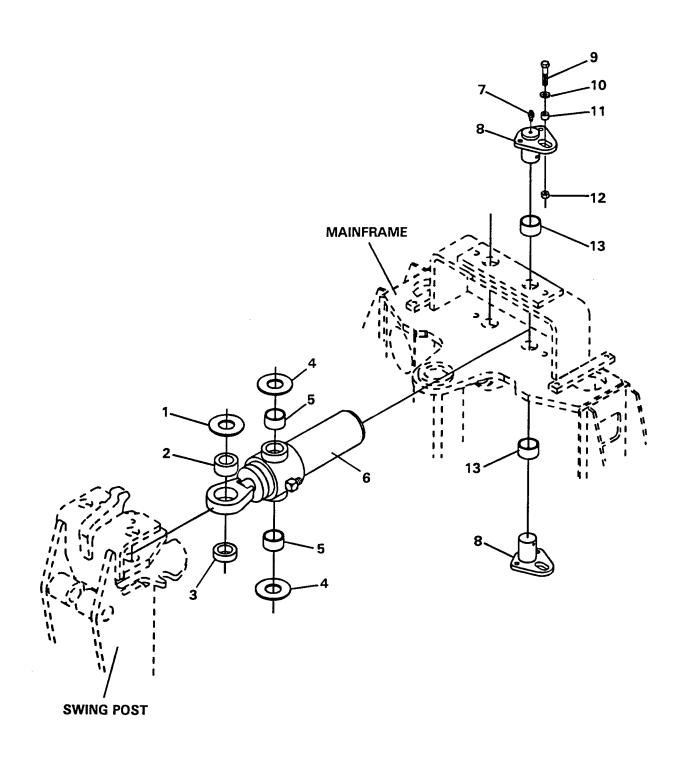
- MAINFRAME ASSEMBLY—

ASSEMBLY #81812 SWING POST

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION			
1	3	1043	.38" UNC X 1.00" Hex Capscrew (Installed with Locktite Grade 242)			
2	3	1503	.38" Lock Washer			
3	3	1514	.38" Flat Washer			
4	3	81807	Spacer Tube			
5	2	81847	Pin			
6	1	83648	Swing Post (Includes (2) 81828 Bushings Installed with Locktite Grade 680)			
7	1	82534	Pin			
8	As Req'd	6623	Thrust Washer 1.38" X .031"			
	As Req'd	64724	Thrust Washer 1.38" X .090"			
	As Req'd	64725	Thrust Washer 1.38" X .125"			
9	3	1650	Snap Ring			
10	-	81828	Bushing (Included in Swing Post) (Installed with Locktite Grade 680)			
11	1	82321	Pin			

MAINFRAME ASSEMBLY-

ASSEMBLY #81812 SWING CYLINDER



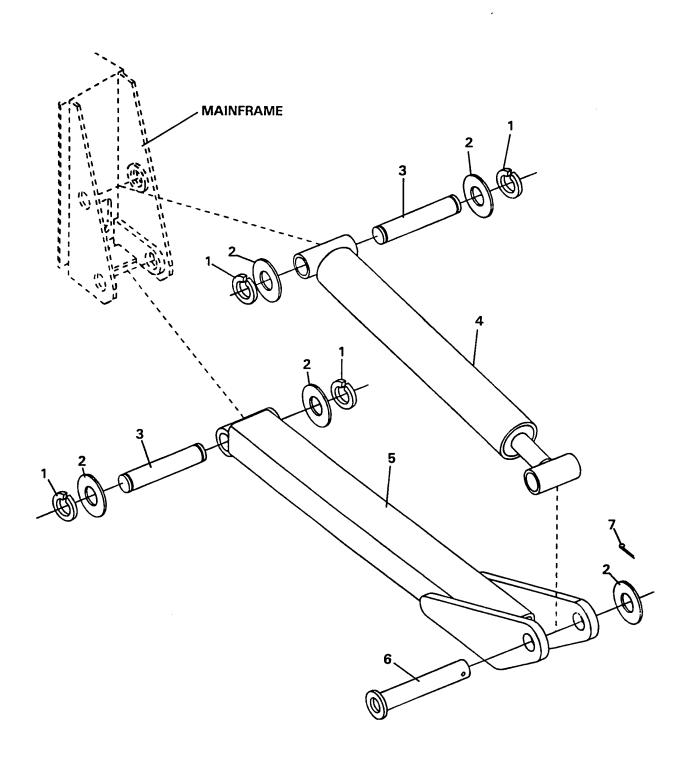
- MAINFRAME ASSEMBLY—

ASSEMBLY #81812 SWING CYLINDER

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	2	1521	1.25" Flat Washer
2	-	62523	Self Aligning Bushing
			(Included in Swing Cylinder Assembly)
3	2	81585	Spacer
4	4	68057	Thrust Washer
5	-	82441	Needle Bearing
			(Included in Swing Cylinder Assembly)
6	2	81827	Swing Cylinder Assembly
			(Includes (2) #82441 Needle Bearings and
			(2) #62523 Bushings)
	2	6616	Grease Zerk
	2	30137	Tee
7	4	53031	90° Grease Zerk
8	4	82420	Pin
9	4	1047	.38" UNC X 2.00" Hex Capscrew
10	4	1514	.38" Flat Washer
11	4	81595	Spacer Tube
12	4	1837	.38" UNC Hex Lock Nut
13	-	83815	Bushing (Included in Mainframe - Installed with Locktite Grade 680)

MAINFRAME ASSEMBLY-

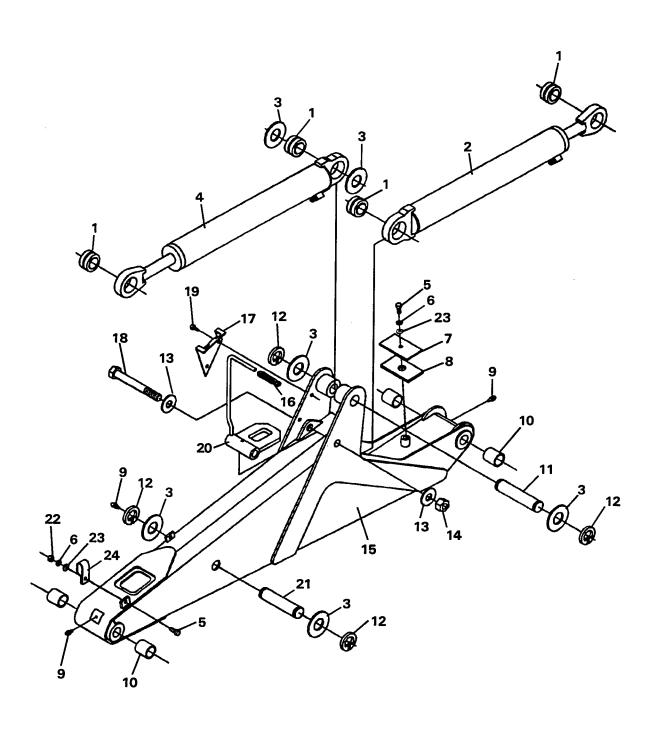
ASSEMBLY #81812 STABILIZERS



- MAINFRAME ASSEMBLY—

ASSEMBLY #81812 STABILIZERS

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	8	1652	Snap Ring
2	As Req'd	57693	Thrust Washer 1.25" X .078"
	As Req'd	64727	Thrust Washer 1.25" X .145"
	As Req'd	64728	Thrust Washer 1.25" X .031"
3	4	81846	Pin
4	2	83397	Stabilizer Cylinder Assembly
	4	6616	Grease Zerk
5	2	83393	Stabilizer Arm
6	2	83257	Pin
7	2	1613	Cotter Pin .25" X 2.00"

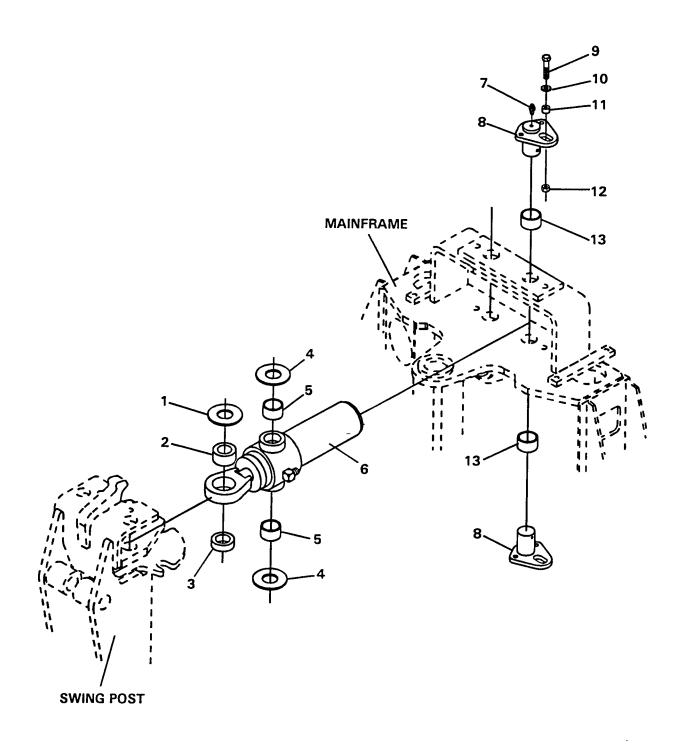


-BOOM & DIPPER ASSEMBLY-

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	-	6615	Self Aligning Bushing (Included in Cylinder Assemblies)
2	1	81611	Boom Cylinder Assembly
	1	53031	90° Grease Zerk
3	As Req'd	6623	Thrust Washer 1.38" X .031"
	As Req'd	64724	Thrust Washer 1.38" X .090"
	As Req'd	64725	Thrust Washer 1.38" X .125"
4	1	81641	Dipper Cylinder Assembly
_	2	6616	Grease Zerk
5	3	1043	.38" UNC X 1.00" Hex Capscrew
6	3	1503	.38" Lock Washer
7	1	81881	Clamp Plate
8	1	81882	Rubber Spacer
9	3	6616	Grease Zerk
10	-	81610	Bushing (Included in Boom)
			(Install with Locktite Grade 680)
11	1	81678	Pin
12	4	1650	Snap Ring
13	2	6562	Spring Washer
14	1	1739	.88" UNC Lock Nut
15	1	82223	Boom (Includes (4) 81610 Bushings)
16	1	83656	Handle Grip
17	1	83606	Swing Lock Bracket
18	1	1176	.88" UNC X 7.00" Hex Capscrew
19	2	1953	.38" UNC X .75" Flange Head Hex Capscrew
20	1	83410	Boom Lock
	1	1575	.38" X .50" Set Screw
21	1	81677	Pin
22	2	1226	.38" UNC Hex Nut
23	3	1514	.38" Flat Washer
24	2	82859	Double Hose Clamp

MAINFRAME ASSEMBLY-

ASSEMBLY #81812 SWING CYLINDER

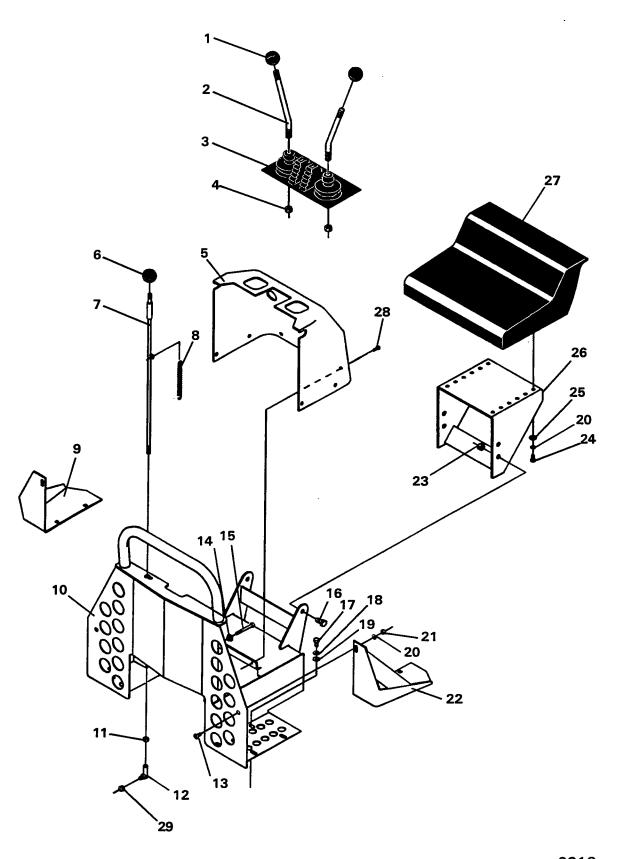


- MAINFRAME ASSEMBLY—

ASSEMBLY #81812 SWING CYLINDER

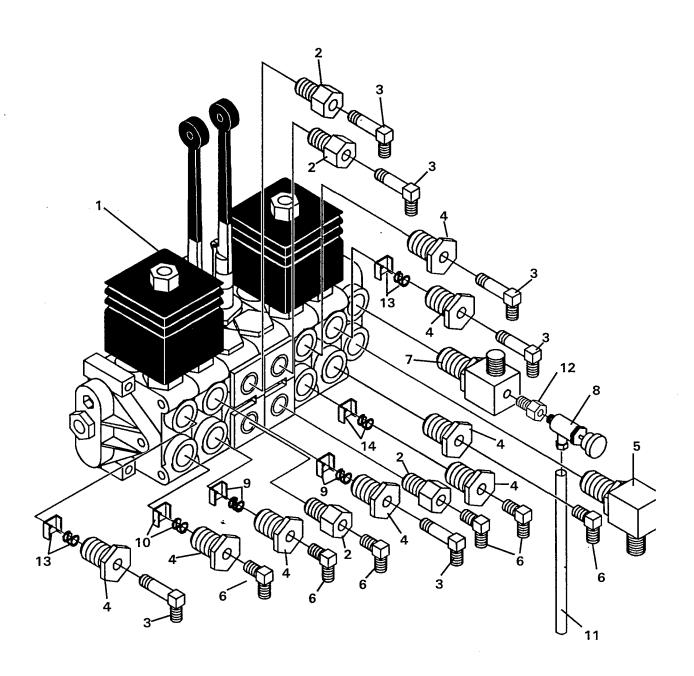
<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	2	1521	1.25" Flat Washer
2	-	62523	Self Aligning Bushing (Included in Swing Cylinder Assembly)
3	2	81585	Spacer Spacer
4	4	68057	Thrust Washer
5	-	82441	Needle Bearing
			(Included in Swing Cylinder Assembly)
6	2	81827	Swing Cylinder Assembly (Includes (2) #82441 Needle Bearings and
	2	6616	(2) #62523 Bushings) Grease Zerk
	2	30137	Tee
Ť	4	53031	90° Grease Zerk
8	4	82420	Pin
9	4	1047	.38" UNC X 2.00" Hex Capscrew
10	4	1514	.38" Flat Washer
11	4	81595	Spacer Tube
12	4	1837	.38" UNC Hex Lock Nut
13	-	83815	Bushing (Included in Mainframe - Installed with Locktite Grade 680)

408N CONSOLE ASSEMBLY-



CONSOLE ASSEMBLY—

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	2	83063	Ball Handle
2	2	81871	Control Handle
3	1	83235	Control Lever Boot
4	2	1242	.50" UNC Jam Nut
5	1	83409	Console Cover with Decals
6	1	83406	Ball Handle - RED
7	1	83273	Rod
8	1	82795	Spring
9	1	82818	Right Step (Located in Mainframe Assembly)
10	1	82804	Console
11	1	1476	.38-24" UNF Jam Nut
12	1	5545	Balljoint
13	6	1925	.31" UNC X .75" Carriage Bolt
14	3	1926	.31" UNC U-Nut
15	3	1029	.31" UNC X 2.75" Hex Capscrew
16	2	1089	.50" UNC X 1.25" Hex Capscrew
17	4	1042	.38" UNC X .75" Hex Capscrew
18	4	1503	.38" Lock Washer
19	4	1514	.38" Flat Washer
20	10	1502	.31" Lock Washer
21	6	1225	.31" UNC Hex Nut
22	1	82819	Left Step (Located in Mainframe Assembly)
23	2	1542	.50" UNC Lock Nut
24	4	1021	.31" UNC X .75" Hex Capscrew
25	4	1513	.31" Flat Washer
26	1	82999	Seat Mounting
27	1	6980	Seat
28	6	1958	.25" UNC X .75" Hex Head Body Bolt
29	1	1592	.38" UNF Lock Nut
30	2	1516	.50" Flat Washer

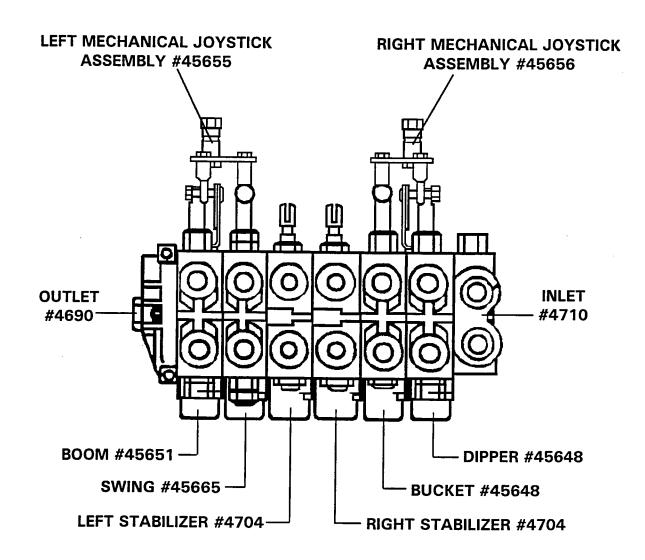


<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	1	81517	Valve - 6 Spool - Gresen
2	4	3368	O'Ring Adapter 8MBo-4FP
3	5	3088	90° Adapter 4MP-6MJ
4	8	3336	O'Ring Adapter 10MBo-4FP
5	1	3283	90° Adapter 10MBo-8MJ
6	6	3001	90° Adapter 4MP-6MJ
7	1	82094	Special Fitting
8	1	3360	Needle Valve
9	-	45633	Restrictor with Spring076 Dia. Orifice (Included in Valve)
10	-	45643	Restrictor with Spring109 Dia. Orifice (Included in Valve)
11	1	37578	Plastic Tube .25" X 30" (Located in Console Assembly)
12	1	30151	Straight Adapter
13	-	45546*	Restrictor with Spring095 Dia. Orifice (Included in Valve)
14	-	45633*	Restrictor with Spring076 Dia. Orifice (Included in Valve)

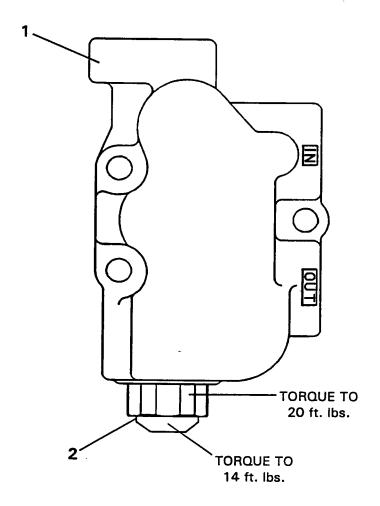
^{*} NOTE: Items #13 and #14 are effective on SN # $_$ 954 and up built after August 8, 1997.

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408 BACKHOE VALVE ASSEMBLY



GRESEN INLET COVER



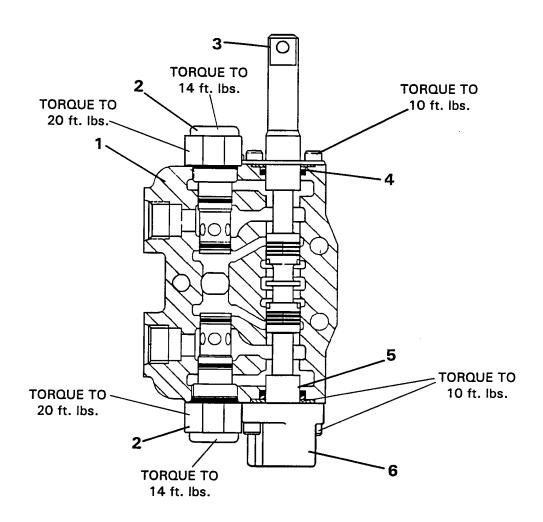
GRESEN INLET COVER

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	1	4710	Inlet Cover #10 Ports
2	1	45148	WH Main Relief Valve Assembly @ 2250 PSI

NOTES:

Valve Section Seal Kit #4653 contains (3) Exhaust Passage O-Ring Seals and (2) Pressure Passage O-Ring Seals

GRESEN VALVE SECTION ASSEMBLY #45648 408 Dipper & Bucket Section 609 & 611 Dipper Section



GRESEN VALVE SECTION ASSEMBLY #45648 408 Dipper & Bucket Section 609 & 611 Dipper Section

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1 2 3 4 5	1 2 1 2 1	45667 45653 45652	Valve Section Housing Cylinder Port Relief Assembly @ 2500 PSI Spool Clevis Adapter Spool Seal Kit Spool
6	1	45282	Spool Positioner Assembly

NOTES:

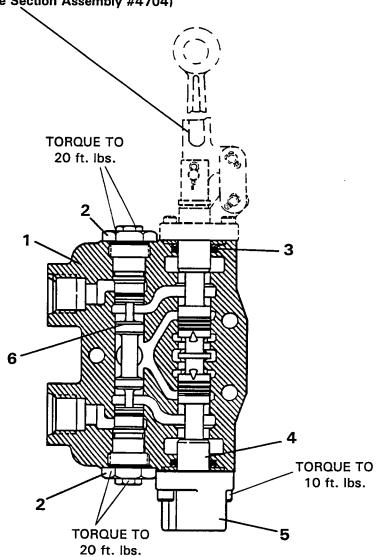
Items without part numbers are not sold separately.

Valve Section Seal Kit #4653 contains (3) Exhaust Passage O-Ring Seals and (2) Pressure Passage O-Ring Seals.

Complete Section Service Seal Kit #4719 includes ALL seals needed to service one complete valve section.

GRESEN VALVE STABILIZER SECTION ASSEMBLY #4704

Horizontal Handle Assembly #45586 (Not included in Valve Section Assembly #4704)



GRESEN VALVE STABILIZER SECTION ASSEMBLY #4704

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1 2 3 4 5	1 2 2 1 1	4819 45652 45282	Valve Section Housing Lockout Check Assembly Spool Seal Kit Spool Spool Positioner Assembly
6	1	45654	Unlocking Piston

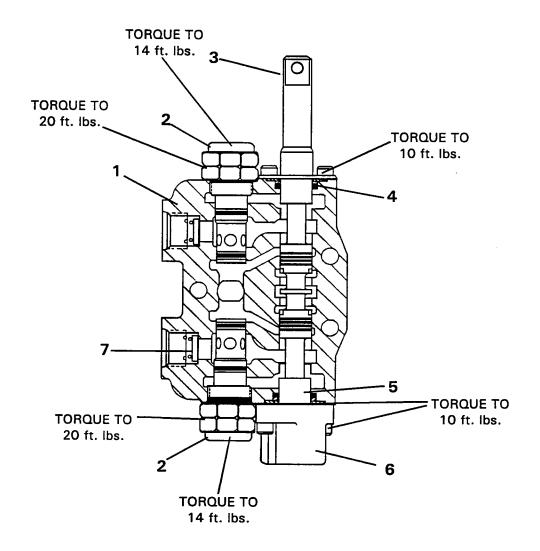
NOTES:

Items without part numbers are not sold separately.

Valve Section Seal Kit #4653 contains (3) Exhaust Passage O-Ring Seals and (2) Pressure Passage O-Ring Seals.

Complete Section Service Seal Kit #4719 includes ALL seals needed to service one complete valve section.

GRESEN VALVE SECTION ASSEMBLY #45665 408 Swing Section



GRESEN VALVE SECTION ASSEMBLY #45665 408 Swing Section

NO	REQ'D	PART NO.	DESCRIPTION
1	1		Valve Section Housing
2	2	45139	Cylinder Port Relief / Anti-Cav.
•		42000	Check Assembly @ 2250 PSI
3	Ī	45653	Spool Clevis Adapter
4	2	45652	Spool Seal Kit
5	1		Spool
6	1	45282	Spool Positioner Assembly
7	2	45633	Port Restrictor with Spring
			.076 Dia. Orifice

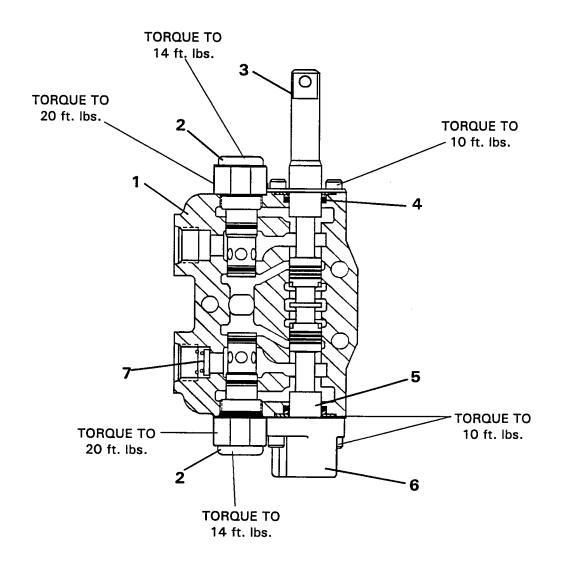
NOTES:

Items without part numbers are not sold separately.

Valve Section Seal Kit #4653 contains (3) Exhaust Passage O-Ring Seals and (2) Pressure Passage O-Ring Seals.

Complete Section Service Seal Kit #4719 includes ALL seals needed to service one complete valve section.

GRESEN VALVE SECTION ASSEMBLY #45651 408 Boom Section



GRESEN VALVE SECTION ASSEMBLY #45651 408 Boom Section

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1 2 3 4 5	1 2 1 2 1	45667 45653 45652	Valve Section Housing Cylinder Port Relief Assembly @ 2500 PSI Spool Clevis Adapter Spool Seal Kit Spool
6 7	1 2	45282 45643	Spool Positioner Assembly Port Restrictor with Spring .109 Dia. Orifice

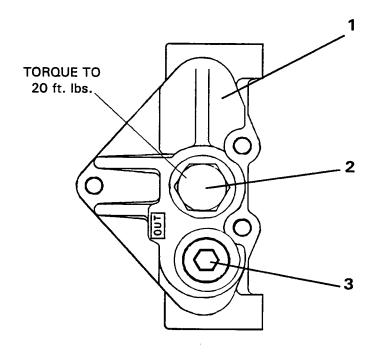
NOTES:

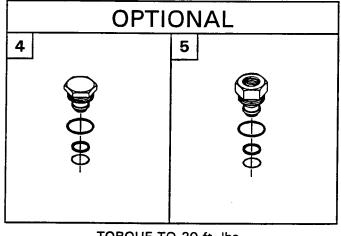
Items without part numbers are not sold separately.

Valve Section Seal Kit #4653 contains (3) Exhaust Passage O-Ring Seals and (2) Pressure Passage O-Ring Seals.

Complete Section Service Seal Kit #4719 includes ALL seals needed to service one complete valve section7

GRESEN OUTLET COVER





TORQUE TO 20 ft. lbs.

GRESEN OUTLET COVER

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	1	4690	Outlet Cover
2	1	4691	Open Center Plug Assembly
3	1	3234	(Includes Open Center Plug & Main O-Ring Seal #4693) Plug

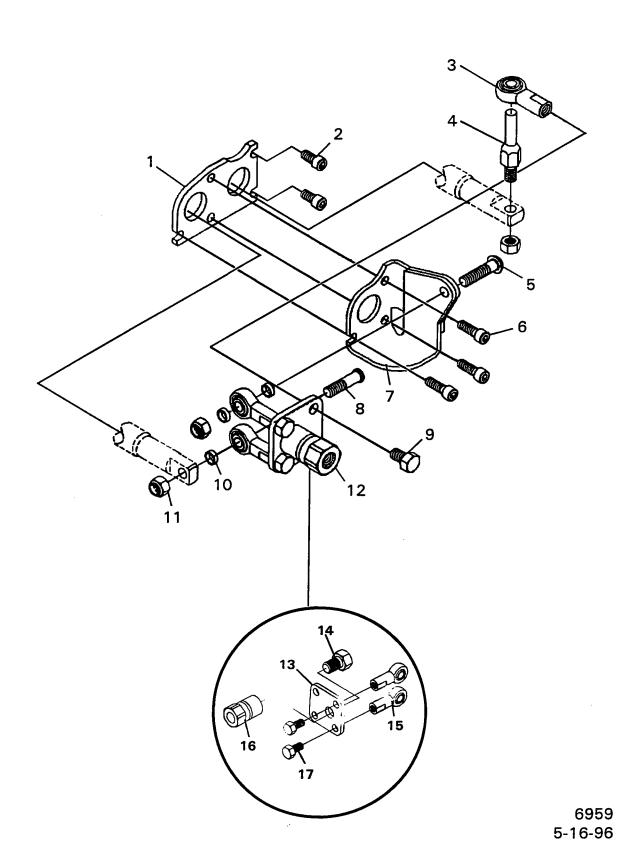
OPTIONAL

4	-	6977	Closed Center Plug Assembly (Includes Main O-Ring Seal #4693)
5	-	4698	Power Beyond Sleeve Assembly (Includes Main O-Ring Seal #4693)

NOTES:

Valve Section Seal Kit #4653 contains (3) Exhaust Passage O-Ring Seals and (2) Pressure Passage O-Ring Seals.

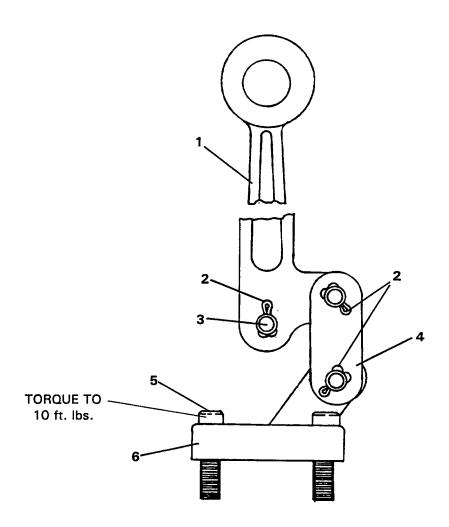
LEFT MECHANICAL JOYSTICK ASSEMBLY #45655 RIGHT MECHANICAL JOYSTICK ASSEMBLY #45656



LEFT MECHANICAL JOYSTICK ASSEMBLY #45655 RIGHT MECHANICAL JOYSTICK ASSEMBLY #45656

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	1	45657	Mounting Plate
2	2	1943	Screw
3	1	45664	Rod End
4	1	45662	Mechanical Slide
5	1	1945	Screw
6	3	1944	Screw
7	1	45658	Bracket - Left
	1	45659	Bracket - Right
8	1	45661	Rod End Stud
9	1	1271	Screw
10	3	45660	Spacer
11	3	1942	Lock Nut
12	1	45663	Handle Plate Assembly
13	1	45074	(Includes Items #13 through #17)
14	1	45671	Mechanical Joystick Plate
		1087	Screw
15	2	45664	Female Rod End
16	1	45672	Handle Adapter
17	2	1271	Screw

Horizontal Handle and Bracket Assembly #45586

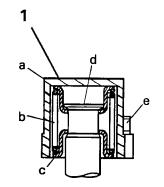


Horizontal Handle and Bracket Assembly #45586

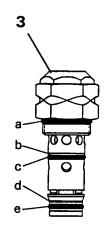
<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1 2	1	*	Handle
3	3 1	*	Cotter Pin Pin
4	1 1	*	Link
5	2	*	Link Plate Screw
6	1	*	Bracket

NOTE: All parts marked with an asterisk (*) are included in Horizontal Handle and Bracket Assembly #45586. Parts are not sold separately.

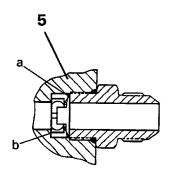
GRESEN VALVE SERVICE PARTS



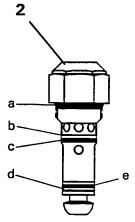
Spool Positioner Assembly



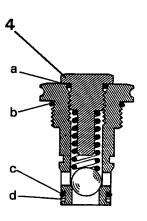
Cylinder_Port Relief/Anti Cav. Check Assembly



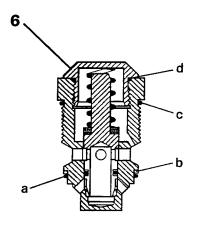
Port Restrictor and Spring Assembly



Cylinder Port Relief Assembly



Lockout Check Assembly



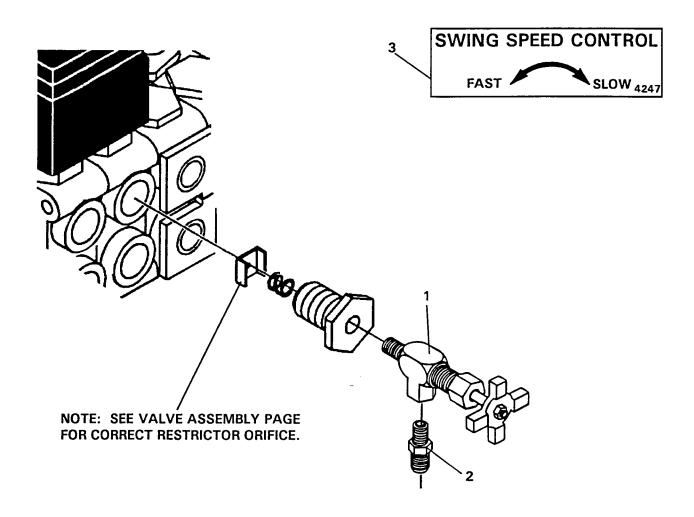
WH Main Relief Valve Assembly

GRESEN VALVE SERVICE PARTS

NO 1	<u>PART NO.</u> 45282	DESCRIPTION Spool Positioner Assembly a Bonnet b Spring c Spring Collar d Spool Spud e Screw
2	45667 (Due to close	Cylinder Port Relief Assembly @ 2500 PSI tolerances only the seals may be serviced in the field.)
	4822	Seal Kit
		a O-Ring Seal
		b Backup Ring
		c O-Ring Seal
		d Backup Ring
		e O-Ring Seal
3	45139 (Due to close 4822	Relief/Anti-Cav. Check Assembly @ 2250 PSI tolerances only the seals may be serviced in the field.) Seal Kit
		a O-Ring Seal
		b Backup Ring
		c O-Ring Seal
		d Backup Ring e O-Ring Seal
		e O-Ring Seal
4	4819 (Due to close 4829	Lockout Check Assembly tolerances only the seals may be serviced in the field.) Seal Kit
		a O-Ring Seal
		b Backup Ring
		c O-Ring Seal
		d Backup Ring
5	45633 45643	Port Restrictor Assembly .076 Dia. Orifice
	45643	Port Restrictor Assembly .109 Dia. Orifice
		a Spring b Orifice Plate
6 (Due to		WH Main Relief Valve Assembly @ 2250 PSI only the seals may be serviced in the field.)
	45142	Seal Kit a O-Ring Seal
		a O-Ring Seal b Backup Ring
		c O-Ring Seal
		d O-Ring Seal

OPTIONAL SWING SPEED CONTROL-

ASSEMBLY #83337

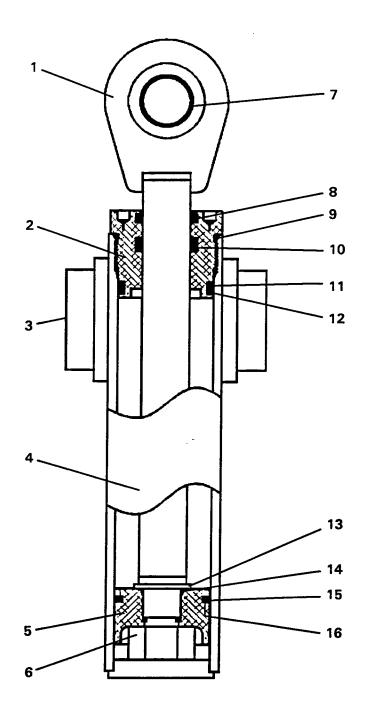


- OPTIONAL SWING SPEED CONTROL-

ASSEMBLY #83337

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	1	3185	Needle Valve
2	1	3137	Male Connector
3	1	4247	Swing Speed Control Decal

SWING CYLINDER ASSEMBLY #81827

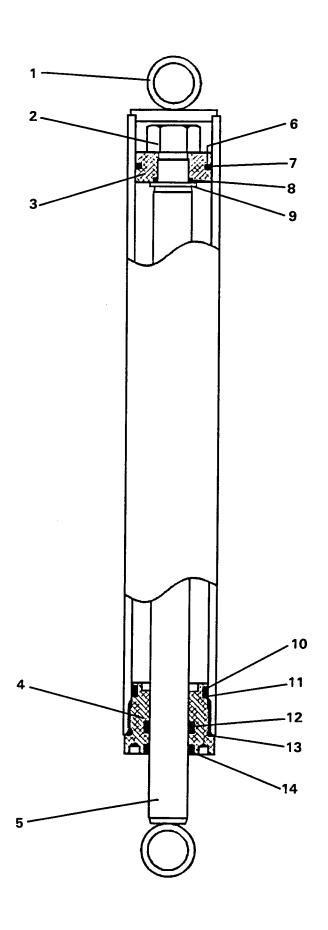


SWING CYLINDER ASSEMBLY #81827

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	1	81024	Cylinder Rod
2	1	77458	Cylinder Gland
3	2	82441	Needle Bearing
4	1	81960	Cylinder Tube
5	1	81963	Piston
6	1	1483	Hex Nut
7	1	62523	Self Aligning Bushing
8	1	45389*	Rod Wiper
9	1	45250*	O'Ring
10	1	45219*	Poly Pak Seal
11	1	4510*	Back-Up Ring
12	1	4509*	O'Ring
13	1	5421	Washer
14	1	4641*	O'Ring
15	1	4644*	Piston Ring
			3
16	1	4645*	O'Ring

NOTE: Seal Kit #45617 Includes all parts marked with an asterisk (*). Parts are not sold separately.

STABILIZER CYLINDER ASSEMBLY #83397

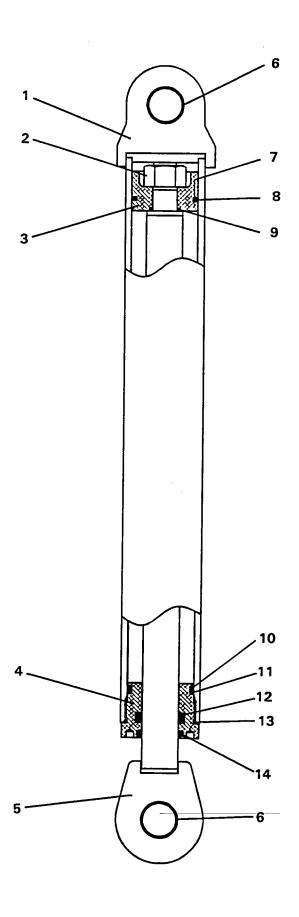


STABILIZER CYLINDER ASSEMBLY #83397

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	1	83398	Cylinder Tube
2	1	1483	Hex Nut
3	1	50252	Piston
4	1	77458	Cylinder Gland
5	1	83399	Cylinder Rod
6	1	4645*	O'Ring
7	1	4644*	Piston Ring
8	1	4641*	O'Ring
9	1	5421	Washer
10	1	4509*	O'Ring
11	1	4510*	Back-Up Ring
12	1	45219*	Poly Pak Seal
13	1	45250*	O'Ring
14	1	45389*	Rod Wiper

NOTE: Seal Kit #45617 includes all parts marked with an asterisk (*). Parts are not sold separately.

BOOM CYLINDER ASSEMBLY #81611

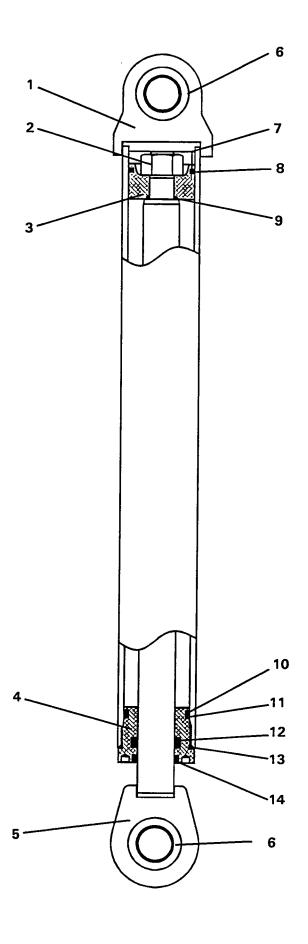


BOOM CYLINDER ASSEMBLY #81611

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	1	91613	Culinday Tuba
	1	81612	Cylinder Tube
2	1	1483	Hex Nut
3	1	82857	Piston
4	1	82449	Cylinder Gland
5	1	82450	Cylinder Rod
6	2	6615	Self Aligning Bushing
7	1	45250*	O'Ring
8	1	45251*	Piston Ring
9	1	4641*	O'Ring
10	1	45557*	O'Ring
11	1	45249*	Back-Up Ring
12	1	45225*	Poly Pak Seal
13	1	4570*	O'Ring
14	1	45372*	Rod Wiper

NOTE: Seal Kit #45618 includes all parts marked with an asterisk (*). Parts are not sold separately.

DIPPER CYLINDER ASSEMBLY #81641



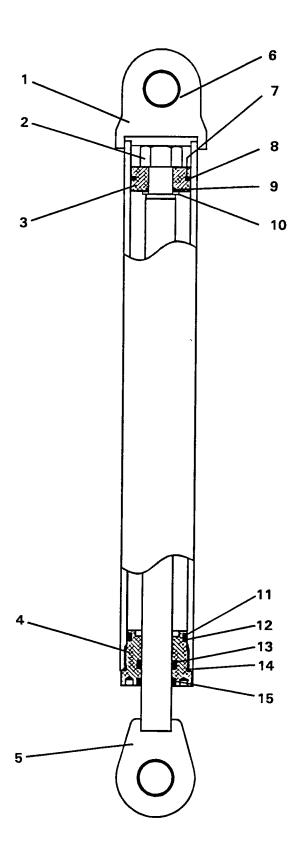
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DIPPER CYLINDER ASSEMBLY #81641

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	1	81642	Cylinder Tube
2	1	1483	Hex Nut
3	1	83113	Piston
4	1	82449	Cylinder Gland
5	1	81643	Cylinder Rod
6	2	6615	Self Aligning Bushing
7	1	45250*	O'Ring
8	1	45251*	Piston Ring
9	1	4641*	O'Ring
10	1	45557*	O'Ring
11	1	45249*	Back-Up Ring
12	1	45225*	Poly Pak Seal
13	1	4570*	O'Ring
14	1	45372*	Rod Wiper

NOTE: Seal Kit #45618 includes all parts marked with an asterisk (*). Parts are not sold separately.

BUCKET CYLINDER ASSEMBLY #81634



BUCKET CYLINDER ASSEMBLY #81634

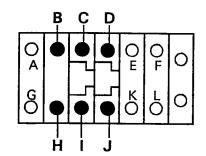
<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	1	81635	Cylinder Tube
2	1	1483	Hex Nut
3	1	50252	Piston
4	1	77458	Cylinder Gland
5	1	81636	Cylinder Rod
6	2	6615	Self Aligning Bushing
7	1	4645*	O'Ring
8	1	4644*	Piston Ring
9	1	4641*	O'Ring
10	1	5421	Washer
11	1	4509*	OID
12	1	4509* 4510*	O'Ring
13			Back-Up Ring
-	1	45219*	Poly Pak Seal
14	1	45250*	O'Ring
15	1	45389*	Rod Wiper

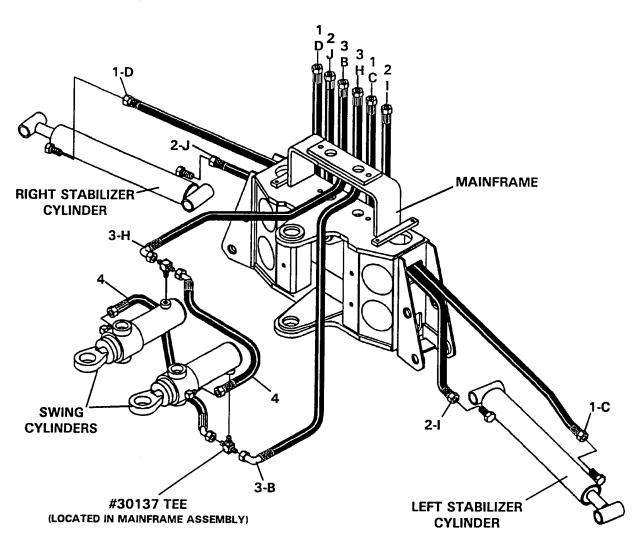
NOTE: Seal Kit #45617 includes all parts marked with an asterisk (*). Parts are not sold separately.

- MAINFRAME HOSE SET-

ASSEMBLY #81815

HYDRAULIC CONTROL VALVE





MAINFRAME HOSE SET-

ASSEMBLY #81815

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	2	37520	Hose Assembly .25" X 42" 6FJX-6FJX
2	2	37521	Hose Assembly .25" X 39" 6FJX-6FJX
3	2	37522	Hose Assembly .25" X 17" 6FJX-6FJX 90° Gooseneck
4	2	37552	Hose Assembly .25" X 15" 6FJX-6FJX 45° Gooseneck

NOTE: Refer to the mainframe assembly for the priority valve hoses which are included in this assembly but have been shown in the mainframe assembly for clarity.

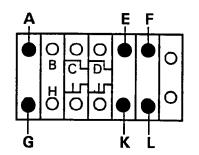
NOTE: Letters on the hose set diagram show the hydaulic hose routing between the backhoe control valve and the various hydraulic cylinders. Simply match the letter on the control valve port to the same letter on the hydraulic hose ends. Example: Hose Assembly labeled "C" runs from the upper Left Stabilizer port on the hydraulic control valve - through the mainframe and to the barrel end fitting on the left stabilizer cylinder.

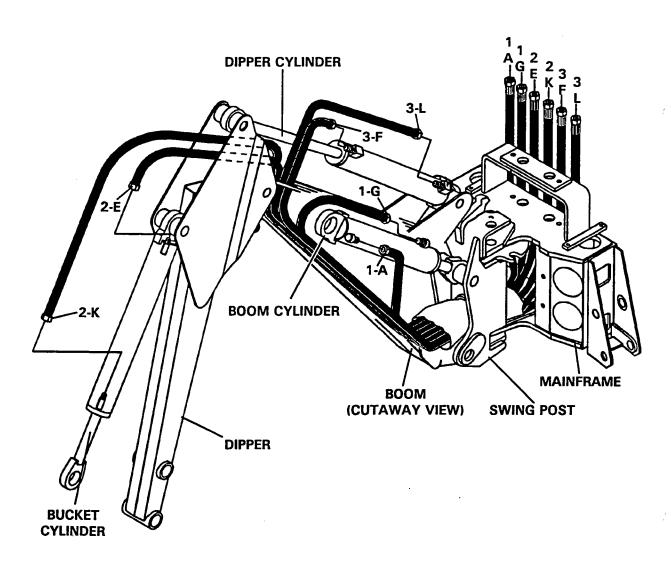
NOTE: The fittings on the hydraulic cylinders have been altered for clarity purposes. This will assist you in distinguishing between the rod end and the barrel end of the various hydraulic cylinders.

- BOOM & DIPPER HOSE SET-

ASSEMBLY #81877

HYDRAULIC CONTROL VALVE





BOOM & DIPPER HOSE SET-

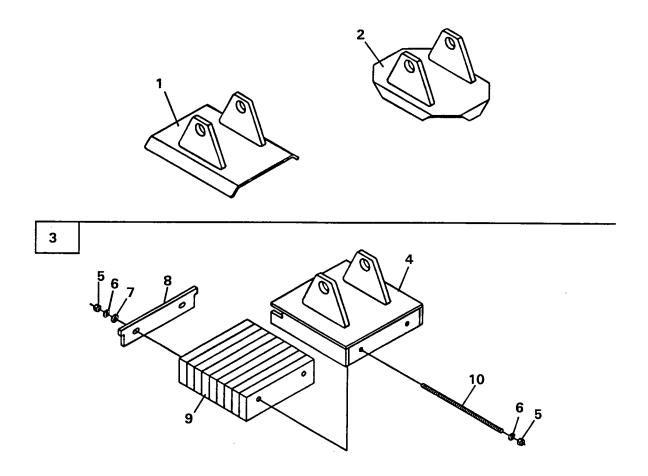
ASSEMBLY #81877

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION	
1	2	37523	Hose Assembly 6FJX-6FJX	.38" X 80"
2	2	37525	Hose Assembly 6FJX-6FJX	.38" X 122"
3	2	37524	Hose Assembly 6FJX-6FJX	.38" X 129"

NOTE: Letters on the hose set diagram show the hydaulic hose routing between the backhoe control valve and the various hydraulic cylinders. Simply match the letter on the control valve port to the same letter on the hydraulic hose ends. Example: Hose Assembly labeled "G" runs from the lower Boom port on the hydraulic control valve - through the mainframe and swing post and to the rod end of the boom cylinder.

NOTE: The fittings on the hydraulic cylinders have been altered for clarity purposes. This will assist you in distinguishing between the rod end and the barrel end of the various hydraulic cylinders.

-STABILIZER PADS -

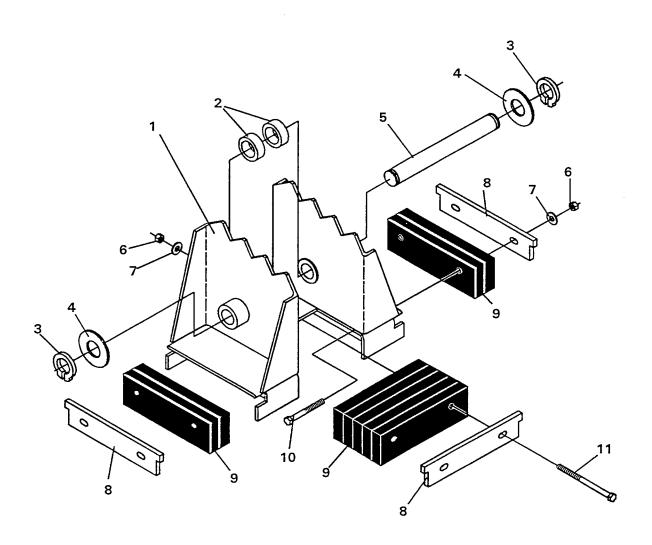


-STABILIZER PADS -

<u>NO</u>	REO'D	PART NO.	DESCRIPTION
	FI	LAT STABILIZE	ER PAD ASSEMBLY - #81861
1	2	81865	Flat Stabilizer Pad
	GRO	USER STABIL	IZER PAD ASSEMBLY - #81860
2	2	83421	Grouser Stabilizer Pad
	RU	BBER STABILIZ	ZER PAD ASSEMBLY - #81862
3	2	83418	Rubber Stabilizer Pad Assembly (Includes Items 4 through 10)
4	1	83419	Stabilizer Pad
5	4	1226	.38" UNC Hex Nut
6	4	1503	.38" Lock Washer
7	2	1514	.38" Flat Washer
8	1	51190	Slide Plate
9	1	64412	Rubber Strip Bundle
10	2	1661	.38" UNC X 11.50" Readi Bolt

-STABILIZER PADS-

FLIP-OVER STABILIZER PAD ASSEMBLY #83091 (COMPLETE SET OF (2) FLIP-OVER PADS - ASSEMBLY #83058)



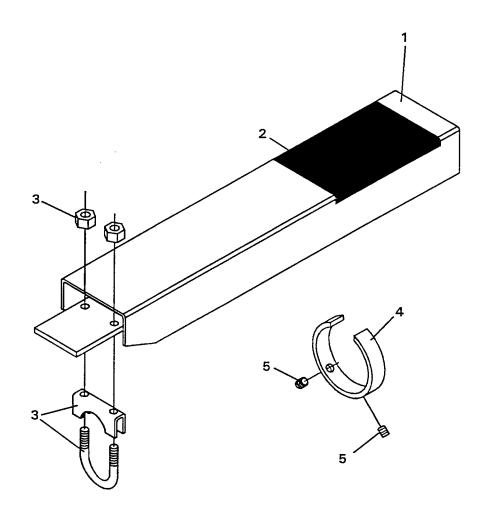
-STABILIZER PADS-

FLIP-OVER STABILIZER PAD ASSEMBLY #83091 (COMPLETE SET OF (2) FLIP-OVER PADS - ASSEMBLY #83058)

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	1	84496	Flip-Over Pad
2	2	84495	Spacer
3	2	1652	1.25" Snap Ring
4	VARIES	57693	Thrust Washer 1.25" X .078"
	VARIES	64727	Thrust Washer 1.25" X .125"
5	1	83096	Pin
6	6	1837	.38" UNC Hex Deformed Lock Nut
7	6	1514	.38" Flat Washer
8	3	51190	Slide Plate
9	1	64412	Rubber Strip Bundle
10	4	1053	.38" UNC X 3.50" Hex Capscrew
11	2	1057	.38" UNC X 5.00" Hex Capscrew

OPTIONAL STABILIZER CYINDER COVER-

STABILIZER CYLINDER COVER ASSEMBLY #83850

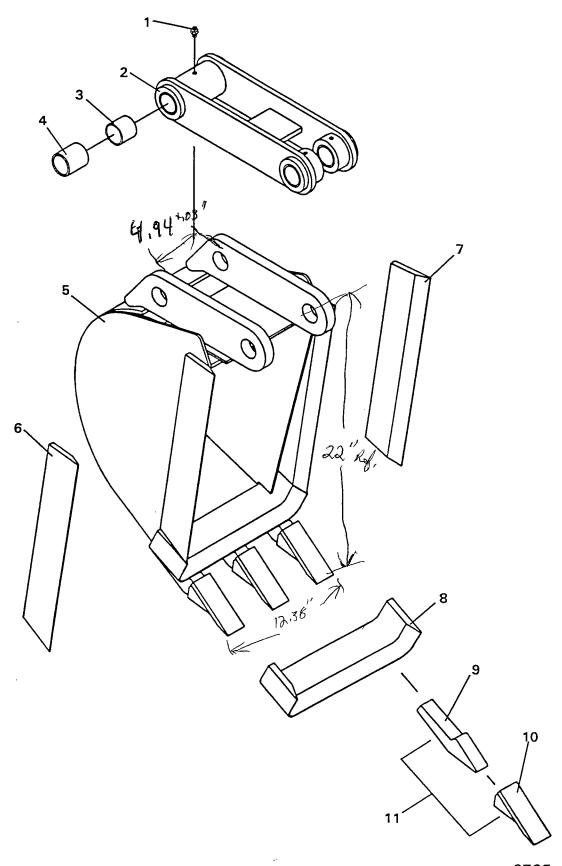


OPTIONAL STABILIZER CYINDER COVER-

STABILIZER CYLINDER COVER ASSEMBLY #83850

<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	2	83915	Stabilizer Cylinder Cover with Decal
2	2	4167	No Step Decal
3	2	83910	Muffler Clamp Assembly
4	2	83911	Guide Ring
5	4	1575	.38" UNC X .50" Set Screw

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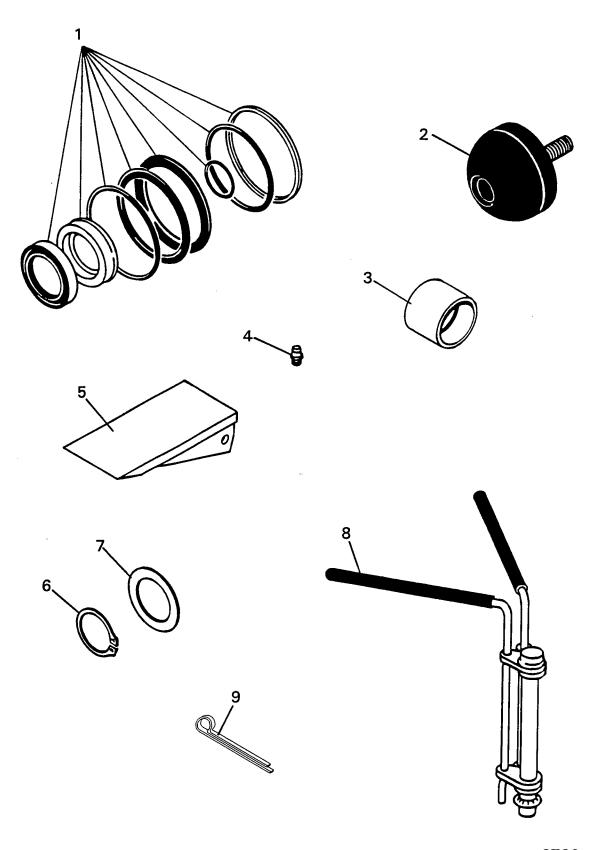
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-BUCKET ASSEMBLIES -

<u>NO</u>	PART NO.	DESCRIPTION
1	6616	Replacement Grease Zerk
2	81824	Replacement Bucket Link
		(Requires (3) #6616 Grease Zerks, (4) #81610
3	83368	Bushings, (1) #83368 Spacer) Replacement Spacer
4	81610	Replacement Bushing
_		
5	81710	10" Bucket Weldment
	81712	12" Bucket Weldment —
	81716	16" Bucket Weldment
	81718	18" Bucket Weldment
	81724	24" Bucket Weldment
6	81667	Replacement Right Side Cutter
7	81668	Replacement Left Side Cutter
8	81906	10" Replacement Front Cutter Edge
	81902	12" Replacement Front Cutter Edge
	81898	16" Replacement Front Cutter Edge
	81894	18" Replacement Front Cutter Edge
	81666	24" Replacement Front Cutter Edge
9	6209	Poplosoment Teeth Chart
-	6398	Replacement Tooth Shank
10	6397	Replace Tooth Point
11	8274	Replacement Tooth Point & Shank

-FIRST LINE REPAIR KIT—

ASSEMBLY #83649



-FIRST LINE REPAIR KIT----

ASSEMBLY #83649

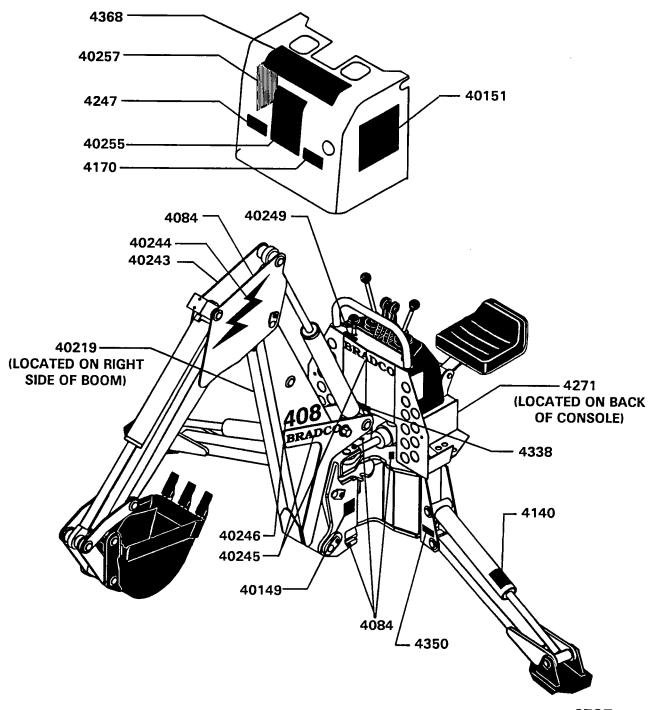
<u>NO</u>	REQ'D	PART NO.	DESCRIPTION
1	2	45617	Seal Kit (Swing/Stabilizer/Bucket Cylinders)
	2	45618	Seal Kit (Boom/Dipper Cylinders)
2	1	6886	Rubber Bumper
3	4	81610	Bushing
4	4	6616	Grease Zerk
5	4	6397	Bucket Tooth
6	4	1650	Snap Ring 1.38"
7	4	6623	Thrust Washer 1.38" X .031"
8	1	65349	Cylinder Seal Install Tool
9	2	1613	Cotter Pin

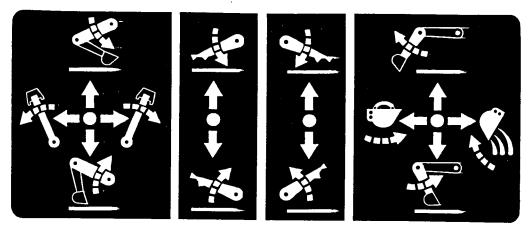
- DECALS -

DECAL PLACEMENT

GENERAL INFORMATION

The diagram on this page shows the location of all the decals used on the 408 backhoe. The decals are identified by their part numbers, with reductions of the actual decals located on the following pages. Use this information to order replacements for lost or damaged decals. Be sure to read all decals before operating the backhoe. They contain information you need to know for both safety and backhoe longevity.



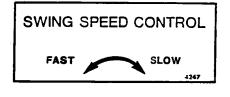


PART #4368
OPERATING CONTROLS DECAL

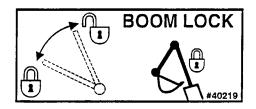
PETCOCK

OPEN TO RELIEVE PRESSURE WHEN HOOKING UP HYDRAULIC COUPLERS. ALWAYS CLOSE PETCOCK BEFORE OPERATING BACKHOE.

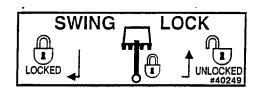
PART #4170
PETCOCK OPERATION DECAL



PART #4247 SWING SPEED CONTROL DECAL



PART #40219 BOOM LOCK DECAL



PART #40249 SWING LOCK DECAL

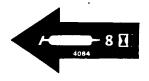
IMPORTANT

The backhoe bucket is capable of contacting this stabilizer and/or cylinder. Carefull operation will avoid backhoe damage.

PART #4140 BUCKET CONTACT WARNING DECAL



PART # 4350 ATI SERIAL NUMBER TAG



PART #4084 GREASE 8 HOURS



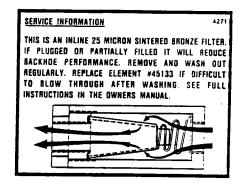
PART #4338 MADE IN U.S.A. DECAL

BRADCO

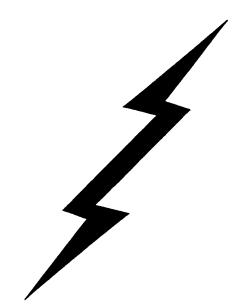
PART #40245 (3 REQ'D) BRADCO LOGO - SILVER

408

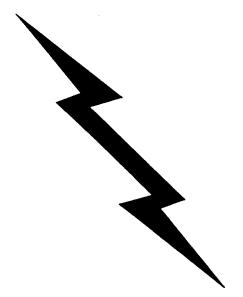
PART #40246 (2 REQ'D) 408 MODEL NUMBER



PART #4271
INLINE FILTER DECAL



PART #40244 LIGHTNING BOLT - LEFT



PART #40243 LIGHTNING BOLT - RIGHT



PART #40151 HIGH PRESSURE FLUID DECAL

Keep all components in good repair.

#40151 ·

IMPORTANT

TO PREVENT BACKHOE DAMAGE:

- DO NOT ATTACH TOW CHAIN DIPPER OR BUCKET.
- DO NOT REPEATEDLY SLAM SWING POST INTO SWING STOPS.

PREPARATION FOR STORAGE

LUBRICATE ALL GREASE POINTS. LEAVE AS MANY CYLINDERS IN CLOSED POSITION AS POSSIBLE. COVER ALL EXPOSED CYLINDER RODS WITH A LIGHT COAT OF GREASE.

940257

PART #40257 IMPORTANT! DECAL



WARNING

TO PREVENT SERIOUS INJURY OR DEATH:

- Do not operate or work on this machine without reading and understanding Operator's Manual.
- Avoid unsafe operation or maintenance.
- Do not operate machine with guards and covers removed.
- This machine was designed to be operated by one operator. Do not carry passengers on unit.
- Before installing backhoe on your unit extend boom and dipperstick and lower bucket to ground.
- Never use backhoe as manlift.
- Operate backhoe control levers from operator's seat only. Lower stabilizers and bucket to ground before leaving operator's seat.
- Engage boom lock and swing lock before transporting backhoe.

#40255

PART #40255
OPERATIONAL WARNING DECAL



To prevent serious injury or death from pinching:

 Keep all persons and objects clear while any part of this machine is in motion.

SW205

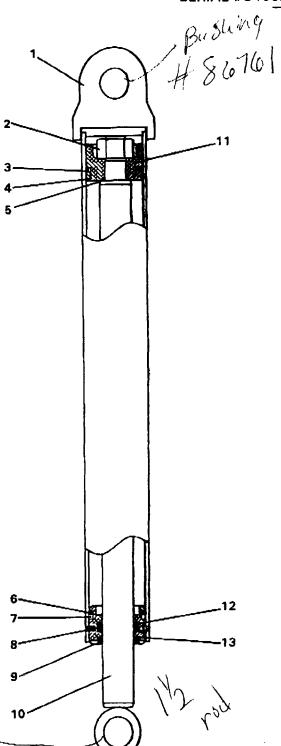
PART #40149
DANGER! PINCH POINTS

BOOM CYLINDER ASSEMBLY #85663

SERIAL #8408AX973 AND UP



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-CYLINDER ASSEMBLY -

BOOM CYLINDER ASSEMBLY #85663

SERIAL #8408AX973 AND UP

NO	REQ'D	PART NO.	DESCRIPTION	. ner
1	1	85664	Cylinder Tube	Retainer
2	1	1483	Hex Nut	1 + 51
3	1	45250*	O'Ring	
4	1	45251*	Piston Ring	
5	1	4641*	O'Ring	
6	1	45248*	O'Ring	
7	1	45249*	Back-Up Washer	
8	1	65465*	Gland Retaining Rod	
9	1	4914*	Rod Wiper	
10	1	85666	Cylinder Rod	
11	1	82857	Piston	
12	1	45225*	Poly-Pak Seal	
13	1	856 45	Cylinder Gland	

NOTE: Seal Kit #45958 includes all parts marked with an asterisk (*). Parts are not sold separately.

7470 6-9-98

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