

GRADALL®

PART MANUAL

XL2300

2300-4001

June 2012
Starting S/N
Upperstructures - 0232412
Undercarriage - G02003

Revised
February 18, 2015
H

GRADALL
406 Mill Avenue S.W.
New Philadelphia, OH, 44663, USA
Telephone: (330) 339-2211
Fax: (330) 339-3579

SECTION 1 — INTRODUCTION

Table of Contents	UP1-1
Alphabetical Index	UP1-4
Service Kits	UP1-8
Parts Index	UP1-9

SECTION 2 — BOOM ASSEMBLIES

Boom Cradle	UP2-1
Tilt Transmission Assembly	UP2-2
Main Boom & Roller Assemblies	UP2-3
Telescope Boom Assembly	UP2-4

SECTION 3 — CAB & RELATED COMPONENTS

Cab Assembly	UP3-1
Cab Door	UP3-2
Cab Console	UP3-3
Seat Assembly	UP3-4
Cab Miscellaneous	UP3-5
Batteries & Miscellaneous Electrical Components	UP3-6
Cab Heater & Installation	UP3-7
Steering Column	UP3-8
Swing Bearing, Cradle & Hoist Cylinder Mounting Pins & Lube System	UP3-9
Fuel Tank Assembly	UP3-10
Decals	UP3-11
Tools	UP3-12
Power Unit Assembly (engine left side view)	UP3-13
Power Unit Assembly (engine right side view)	UP3-14
Exhaust System	UP3-15
Oil Cooler, Radiator & Hoses	UP3-16
Air Cleaner & Installation	UP3-17
Air Cleaner Assembly	UP3-18
Rotating Platform (right side view)	UP3-19
Rotating Platform (left side view)	UP3-20
Wiper & Washer Installation	UP3-21

SECTION 4 — HYDRAULIC SYSTEM COMPONENTS

Main Pump Assembly	UP4-1
Main Pump Assembly, (continued)	UP4-2
Center Pin Assembly	UP4-3
Pump Coupler Assembly	UP4-4
Swing Transmission Assembly	UP4-5
Swing Transmission Installation	UP4-6
Swing Motor Assembly	UP4-7
Swing Brake Assembly	UP4-8
Pump Valve Assembly	UP4-9
Thermal By-Pass Valve Assembly	UP4-10
Foot Operated Pedal Valve Assembly	UP4-11
Tilt Motor Assembly	UP4-12
Hoist Cylinder Assembly	UP4-13
Boom Cylinder Assembly	UP4-14
Tool Cylinder Assembly	UP4-15
Combination Valve Assembly	UP4-16
Tool, Hoist, Propel & Auxiliary Hydraulic Control Valve Assembly	UP4-17
Tool Valve Section Assembly	UP4-18
Hoist Valve Section Assembly	UP4-19
Off-Highway Propel Valve Section Assembly	UP4-20
Auxiliary Valve Section Assembly	UP4-21
Tilt, Boom, Swing & Propel Hydraulic Control Valve Assembly	UP4-22
Tilt Valve Section Assembly	UP4-23
Boom Valve Section Assembly	UP4-24
On-Highway Propel Valve Section Assembly	UP4-25
Swing Valve Section Assembly	UP4-26
Tilt Transmission Assembly	UP4-27
Tilt Brake Assembly	UP4-28
Boom Cylinder Assembly	UP4-29
Gear Pump Assembly	UP4-30
Priority Valve Assembly	UP4-31
Brake Valve Assembly	UP4-32
Joystick Lockout Valve Assy	UP4-33
Joystick Assembly	UP4-34
Pressure Reducing Valve Assembly	UP4-35

SECTION 5 — MAIN HYDRAULIC SYSTEMS

Reservoir Assembly	UP5-1
Oil Supply to Pumps	UP5-2
Hydraulic Pressure to Control Valves	UP5-3
Swing & Swing Brake Hydraulic Circuit	UP5-4
Swing Motor Hydraulic Circuit	UP5-5
Boom Cylinder Hydraulic Circuit	UP5-6
Tilt Motor Hydraulic Circuit	UP5-7
Hoist Cylinder Hydraulic Circuit	UP5-8
Tool Cylinder Hydraulic Circuit	UP5-9
Upper Propelling Hydraulic Circuit	UP5-10
Dump Circuit	UP5-11
Hydraulic Hosing to Joystick & Foot Operated Valves	UP5-12

SECTION 6 — HYDRAULIC SYSTEM COMPONENTS

Clamp Sets & Miscellaneous Hydraulic Components	UP6-1
Boom Pilot Hydraulic Circuit	UP6-2
Hoist Pilot Hydraulic Circuit	UP6-3
Tool Pilot Hydraulic Circuit	UP6-4
Propel Pilot Hydraulic Circuit	UP6-5
Swing Pilot Hydraulic Circuit	UP6-6

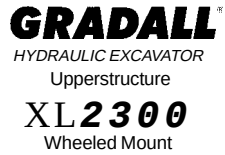
SECTION 7 — ATTACHMENTS

Bucket Linkage	UP7-1
Excavating Buckets, 18" & 24"	UP7-2
Excavating Buckets, 30" & 36"	UP7-3
Excavating Bucket w/Ripper & Pavement Removal Bucket	UP7-4
Ditching Bucket, 60" & Ditchin Bucket w/Constant Radius	UP7-5
Grading Blade, 8' & Steel Mill Ripper	UP7-6
Fixed Thumb Grapple & Boom Extension, 4'	UP7-7

Air Cleaner & Element	UP3-17, UP3-18
Alternator	UP3-13
Battery	UP3-6
Boom Control Valve	UP4-22
Boom Cradle	UP2-1
Boom Cylinder	UP4-14
Boom Cylinder Main Hydraulic Circuit	UP5-6
Boom Cylinder Pilot Hydraulic Circuit	UP6-2
Boom Extension	UP7-7
Boom Rollers	UP2-3
Boom Valve Section Assembly	UP4-24
Bucket Linkage	UP7-1
Cab Assembly	UP3-1, UP3-5
Cab Door	UP3-2
Center Pin	UP4-3
Circuit Breakers	UP3-6
Combination Valve	UP4-16
Counterweight	UP3-20
Cradle	UP2-1
Decals	UP3-11
Ditching Buckets	UP7-5
Doors	UP3-2, UP3-19, UP3-20
Dump Circuit	UP5-11
Eccentric Shaft	UP2-3
Electronic Monitoring Unit	UP3-3
Excavating Buckets	UP7-2, UP7-3
Exhaust System	UP3-15
Fan	UP3-13
Fan Belt	UP3-14
Filter Elements	UP3-18, UP5-1, UP5-11
Flasher Module	UP3-4

Foot Operated Pedal Valve	UP4-11
Fuel Filters	UP3-14
Fuel Level Sender	UP3-10
Fuel Tank	UP3-10
Fuses	UP3-6
Grab Rails	UP3-19, UP3-20
Heater	UP3-7
Heater Control Cable & Valve	UP3-4, UP3-7
Heater Switch	UP3-3
Hoist Cylinder Valve	UP4-17
Hoist Cylinder	UP4-13
Hoist Cylinder Main Hydraulic Circuit	UP5-8
Hoist Cylinder Mounting Pins	UP3-9
Hoist Cylinder Pilot Hydraulic Circuit	UP6-3
Hoist Valve Section Assembly	UP4-19
Horn	UP3-20
Hourmeter	UP3-3
Ignition Switch	UP3-3
Inside Covers	UP3-20
Joystick	UP4-34
Kits	UP1-8
Latches	UP3-2, UP3-19, UP3-20
Main Boom	UP2-3
Miscellaneous Electrical Components	UP3-6
Oil Cooler	UP3-16
Oil Filter	UP3-13
Oil Temperature Sender	UP3-13
Outside Paddle Latch & Key	UP3-2
Pavement Removal Bucket	UP7-4
Pilot Circuits	UP6-2 thru UP6-6
Power Unit	UP3-13, UP3-14

Propel Control Valve	UP4-17
Propel Pilot Hydraulic Circuit	UP6-5
Propel Valve Section Assembly	UP4-20, UP4-25
Pump Coupler	UP4-4
Pump Valve Assembly	UP4-9
Radiator & Hoses	UP3-16
Rear Hoist Pin	UP3-9
Reservoir	UP5-1
Roller Brackets & Rollers	UP2-3
Rotating Platform	UP3-19, UP3-20
Seat & Seat Support	UP3-4
Service Kits	UP1-8
Starting Motor	UP3-13
Starting Switch	UP3-3
Swing Brake	UP4-8
Swing Gear Bearing	UP3-9
Swing Motor	UP4-7
Swing Pinion	UP4-6
Swing & Swing Brake Hydraulic Circuit	UP5-4
Swing Motor Hydraulic Circuit	UP5-5
Swing Transmission	UP4-5, UP4-6
Swing Valve Section Assembly	UP4-26
Switches	UP3-3
Telescope Boom	UP2-4
Throttle Cable	UP3-4
Tilt Bearing	UP3-9
Tilt Motor	UP4-12
Tilt Motor Main Hydraulic Circuit	UP5-7
Tilt Speed Rheostat	UP3-3
Tilt Transmission	UP2-2, UP4-27
Tilt Control Valve Assembly	UP4-22
Tilt Valve Section Assembly	UP4-23
Tool Control Valve Assembly	UP4-17
Tool Cylinder	UP4-15
Tool Cylinder Bracket	UP2-4
Tool Cylinder Main Hydraulic Circuit	UP5-9
Tool Cylinder Pilot Hydraulic Circuit	UP6-4



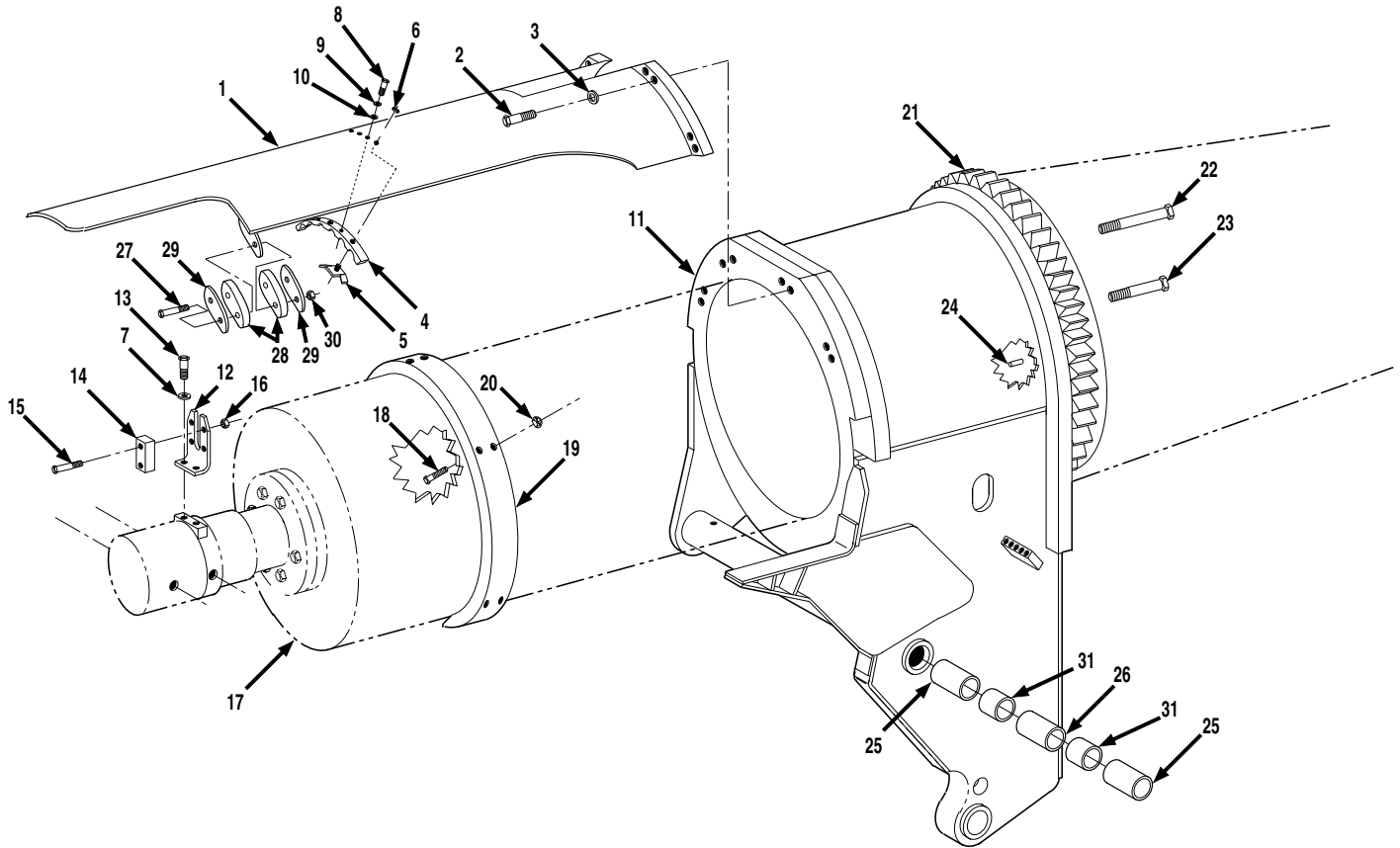
INTRODUCTION
Alphabetical Index
Starting Serial No. 0232412
Original Issue 8-99

Tool Eye	UP2-4
Tool Kit	UP3-12
Tool Valve Section Assembly	UP4-18
Upper Propelling Hydraulic Circuit	UP5-10
Upper Propelling Pilot Hydraulic Circuit	UP5-11
Washer & Wiper Installation	UP3-21
Water Temperature Sender	UP3-13
Weatherstrip	UP3-1, UP3-2, UP3-5
Window Frame	UP3-1, UP3-2, UP3-5
Wiring Harness	UP3-14

<u>DESCRIPTION</u>	<u>PART NUMBER</u>	<u>PAGE NUMBER</u>
UPPER SEAT ASSEMBLY KIT	8026-4001	UP3-4
TOOL KIT	8021-5004	UP3-12
ENGINE FILTER KIT	8027-4010	UP3-13
MAIN PUMP SEAL KIT	8023-4015	UP4-1
CENTER PIN PACKING KIT	8023-3042	UP4-3
SWING MOTOR SEAL KIT	8023-4068	UP4-7
PUMP VALVE RELIEF VALVE SEAL KIT	8023-4082	UP4-9
PUMP VALVE SEQUENCE VALVE SEAL KIT	8093-4049	UP4-9
THERMAL BY-PASS ELEMENT KIT	8097-4021	UP4-10
FOOT PEDAL VALVE SEAL KIT	8093-4507	UP4-11
TILT MOTOR SEAL KIT	8023-4002	UP4-12
HOIST CYLINDER PACKING KIT	8000-3436	UP4-13
BOOM CYLINDER PACKING KIT	8000-3392	UP4-29
TOOL CYLINDER PACKING KIT	8000-3394	UP4-15
COMBINATION VALVE SOLENOID SEAL KIT	7738-3283	UP4-16
COMBINATION VALVE SWING BRAKE SOLENOID KIT	8023-4046	UP4-16
COMBINATION VALVE SHUTTLE SEAL KIT	8023-4048	UP4-16
TOOL, HOIST & PROPEL FACE SEAL KIT	8023-3079	UP4-17
TOOL, HOIST & PROPEL END COVER SEAL KIT	8023-3080	UP4-17
TILT, BOOM, SWING & PROPEL FACE SEAL KIT	8023-3079	UP4-22
TILT, BOOM, SWING & PROPEL END COVER SEAL KIT	8023-3080	UP4-22
JOYSTICK SEAL KIT	8093-4226	UP4-34
JOYSTICK PLUNGER KIT	8093-4498	UP4-34
TILT BRAKE BEARING KIT	8024-4001	UP4-28
TILT BRAKE STACK KIT	8024-4002	UP4-28
TILT BRAKE O-RING KIT	8024-4003	UP4-28
TILT BRAKE GASKET KIT	7713-4055	UP4-28

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

BOOM ASSEMBLIES
Boom Cradle
Starting Serial No. 0232412
Original Issue 8-99
Revised 9-21-01

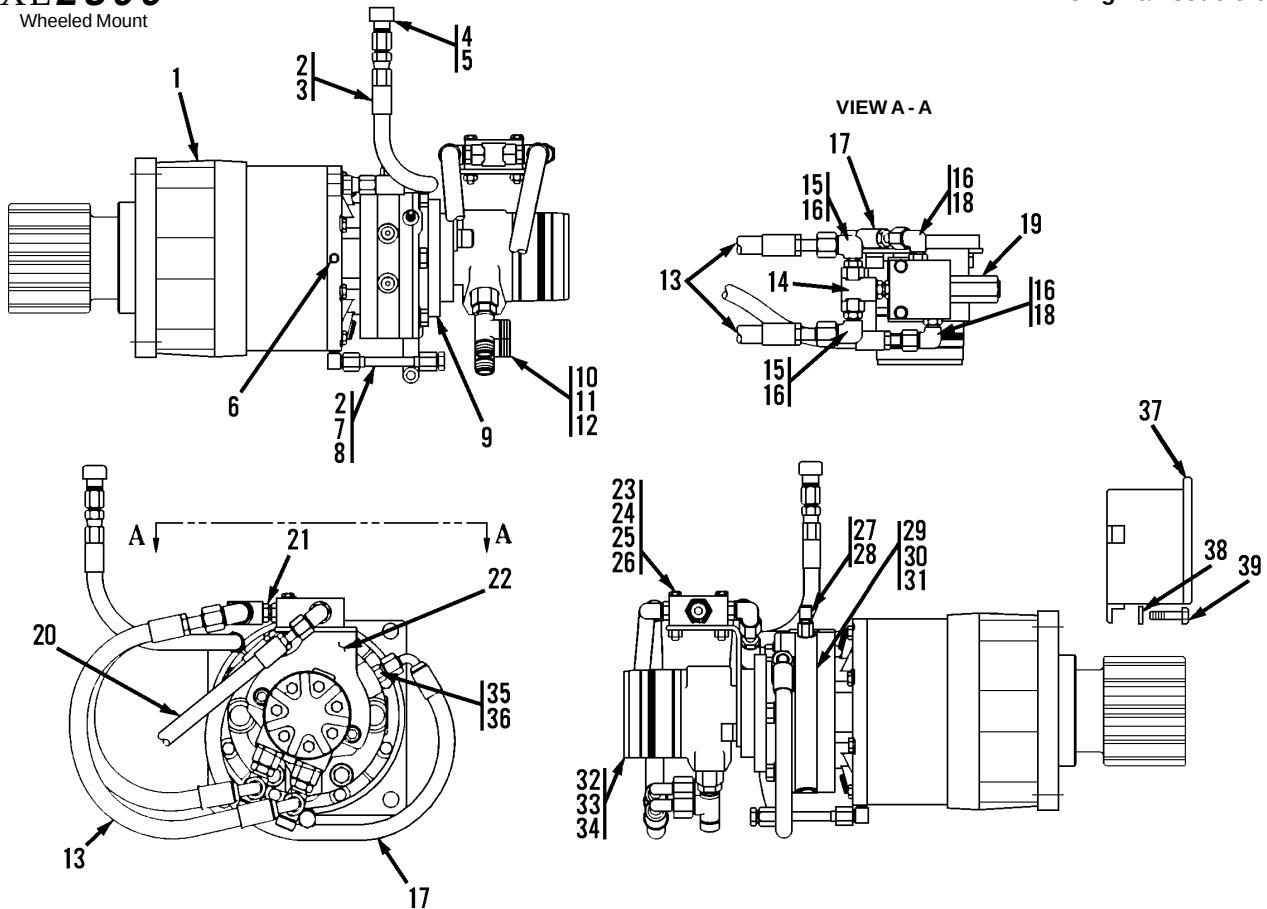


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8022-6042	1	TUBE COVER WELDMENT	18	8022-3049	8	CARRIAGE BOLT, 3/8-16x3/4, (lubricate & torque to 30-35 ft. lbs.)
2	8820-1069	8	HEX HD CAPSCREW, 1/2-13X2, GR5	19	8022-6040	1	RING
3	8855-1013	8	LOCKWASHER, 1/2	*20	8852-4913	8	HEX LOCKNUT, 3/8-16
4	8022-1115	1	CLAMP BASE	*21	8024-3113	1	TILT GEAR/BEARING ASSY
5	8022-1258	2	CLAMP PLATE	22	8022-3039	46	HEX FLANGE BOLT, 5/8-11X5, (lubricate & torque to 200-215 ft. lbs.)
6	8852-1006	2	HEX LOCKNUT, 3/8-16	23	8022-3024	38	HEX FLANGE BOLT, 5/8-11X4, (lubricate & torque to 200-215 ft. lbs.)
7	8855-1011	2	LOCKWASHER, 3/8	*24	8863-1684	2	DOWEL PIN, 3/4X2
8	8820-1066	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR5	*25	8029-3009	2	BUSHING
9	8855-1013	2	LOCKWASHER, 1/2	*26	8022-3036	1	BUSHING
10	1238-1025	2	HARDENED WASHER, 1/2	27	8320-1140	4	HEX HD CAPSCREW, 3/8-16X2-3/4, GR8, (lubricate & torque to 40-45 ft. lbs.)
11	8022-6037	1	CRADLE WELDMENT	28	8022-3051	4	PAD
12	8022-1186	1	STABILIZER	29	8022-1271	4	PLATE
13	8820-1034	2	HEX HD CAPSCREW, 3/8-16X7/8, GR5	30	8852-1206	4	HEX LOCKNUT, 3/8-16, (lubricate & torque to 40-45 ft. lbs.)
14	8022-3040	2	WEAR PAD	31	8022-1269	2	SPACER
15	8820-1039	4	HEX HD CAPSCREW, 3/8-16X2, GR5				
16	8852-1206	4	HEX LOCKNUT, 3/8-16				
17		Ref	MAIN BOOM ASSY, (see page UP2-3 for details)				

* - Changed quantity on item 20, changed part numbers on items 21, 25, 28 & 29, changed description on items 24 & 26.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

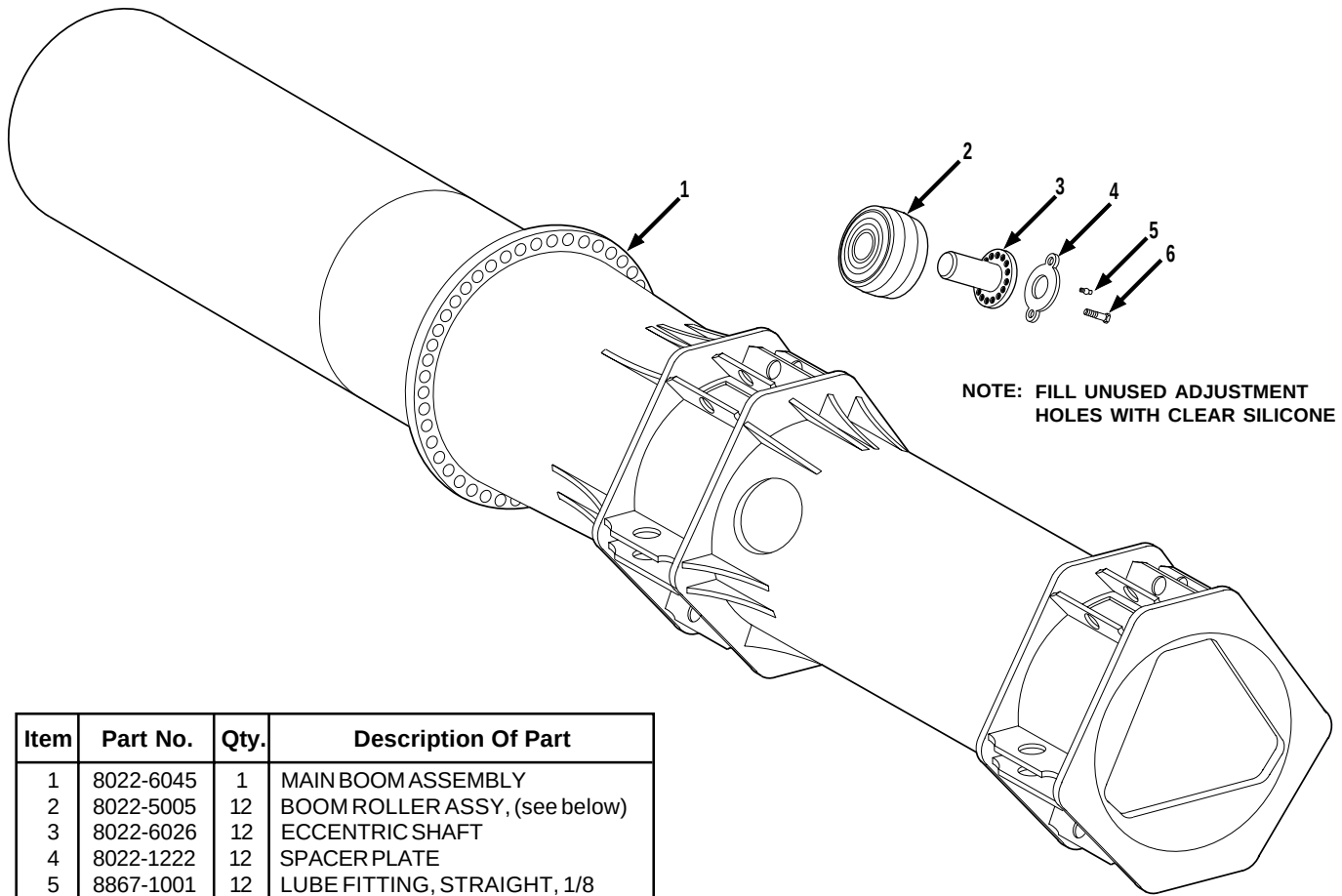
BOOM ASSEMBLIES
(8022-5011) Tilt Transmission Installation
Starting Serial No. 0232412
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8022-5011	1	TILT TRANSMISSION INSTALLATION, (includes all items except items 40 thru 42)	20	8471-9058	1	HOSE ASSY
		Ref	TILT TRANSMISSION ASSY, (see page UP4-27 for details)	21	7713-3400	1	ADAPTER
2	8866-1107	2	MALE ELBOW, 90 DEGREES, 1/8X3/8 TUBE	22	8022-1252	1	MOUNTING PLATE
3	8471-7889	1	HOSE ASSY	23	8820-1009	2	HEX HD CAPSCREW, 1/4-20X2, GR5
4	8024-3019	1	ADAPTER	24	8856-1002	2	FLAT WASHER, 1/4
5	7734-3070	1	VENT	25	8855-1009	2	LOCKWASHER, 1/4
6	8871-1250	1	SQUARE HD PIPE PLUG, 1/8	26	8850-1004	2	HEX NUT, 1/4-20
7	8022-3053	1	TUBE ASSY	27	7736-3111	1	ADAPTER
8	8866-1384	1	HEX PLUG, 3/8 TUBE	28	8407-1251	1	VENT
9	8022-1256	1	MOTOR SPACER	29		Ref	TILT BRAKE ASSY, (see page UP4-28 for details)
10	8022-3052	2	ADAPTER	30	8820-1075	2	HEX HD CAPSCREW, 1/2-13X3-1/2, GR5
11	8866-2347	2	RUN TEE, (includes item 12)	31	8855-1013	2	LOCKWASHER, 1/2
12	8859-1205	2	O-RING	32		Ref	TILT MOTOR ASSY, (see page UP4-12 for details)
13	8471-9065	2	HOSE ASSY	33	8821-1108	2	SOCKET HD CAPSCREW, 1/2-13X1-3/4, GR8
14	8093-3037	1	SHUTTLE VALVE	34	8855-1109	2	LOCKWASHER, 1/2
15	8866-2486	2	ELBOW, 90 DEGREES, (includes item 16)	35	8866-2444	1	CONNECTOR, (includes item 36)
16	8859-1204	4	O-RING	36	8859-1202	1	O-RING
17	8471-9064	1	HOSE ASSY	37	8022-6019	1	PINION GUARD
18	8866-2329	2	ELBOW, 90 DEGREES, (includes item 16)	38	8855-1011	3	LOCKWASHER, 3/8
19	8023-3107	1	SEQUENCE VALVE	39	8820-1038	3	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5

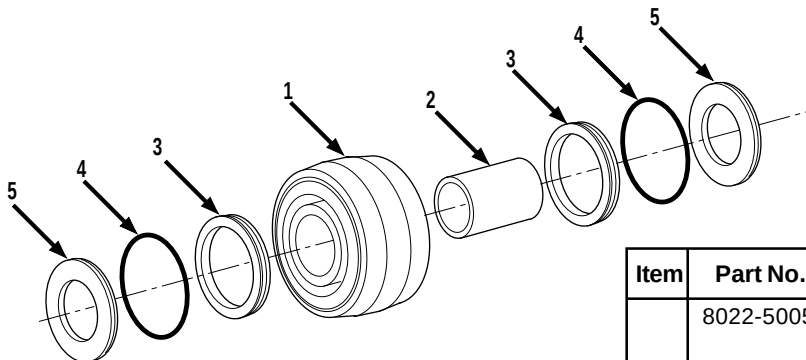
GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

BOOM ASSEMBLIES
Main Boom & Roller Assemblies
Starting Serial No. 0232412
Original Issue 8-99



NOTE: FILL UNUSED ADJUSTMENT HOLES WITH CLEAR SILICONE

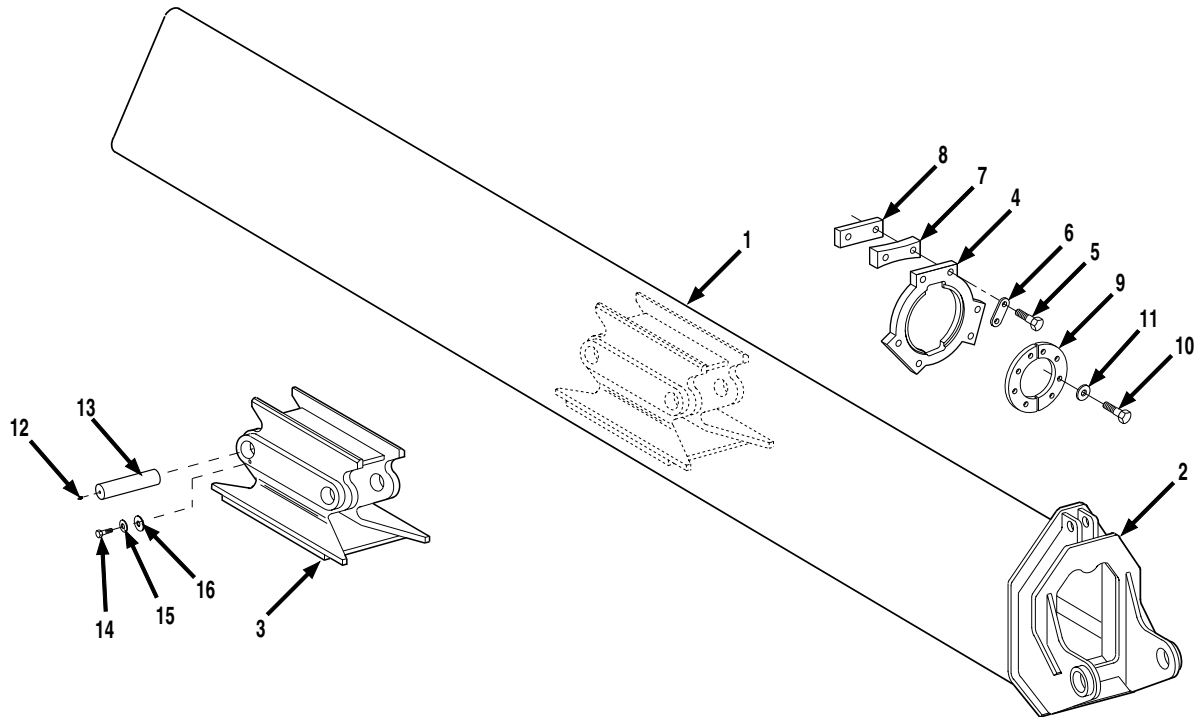
Item	Part No.	Qty.	Description Of Part
1	8022-6045	1	MAIN BOOM ASSEMBLY
2	8022-5005	12	BOOM ROLLER ASSY, (see below)
3	8022-6026	12	ECCENTRIC SHAFT
4	8022-1222	12	SPACER PLATE
5	8867-1001	12	LUBE FITTING, STRAIGHT, 1/8
6	8022-3046	24	HEX FLANGE BOLT, 1/2-13X1, (lubricate & torque to 68-78 ft. lbs.)



Item	Part No.	Qty.	Description Of Part
	8022-5005	1	BOOM ROLLER ASSEMBLY, (includes all items)
1		1	FLAT ROLLER
2	8092-3008	1	BUSHING
3	8362-3005	2	FACE SEAL
4	8362-3018	2	O-RING
5	8022-3032	2	THRUST WASHER
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

BOOM ASSEMBLIES
Telescope Boom Assembly
Starting Serial No. 0232412
Original Issue 8-99
Revised 6-13-12



Item	Part No.	Qty.	Description Of Part
	8022-5020	AR	BOOM END KIT, (includes items 12 thru 16 & designated items on page UP7-1)
1	8022-6027	1	TELESCOPE BOOM ASSY, (includes items 2 & 3)
2	8022-6004	1	TOOL EYE
*3		1	CYLINDER BRACKET, (not available for service)
4	8022-1286	1	TELEBOOM SPIDER
5	8320-1149	6	HEX HD CAPSCREW, 3/8-16X2-3/4, GR8, (lubricate & torque to 55-60 ft. lbs.)
6	8022-1278	3	KEEPER
7	8022-3059	3	PAD
8	8022-1280	3	THREADED BAR
9	8022-1231	1	SPIDER CAP SET
10	8320-1168	6	HEX HD CAPSCREW, 1/2-13X3-1/2, GR8, (lubricate & torque to 100-110 ft. lbs.)
11	9002-7471	6	HARDENED WASHER, 1/2
12	8867-1001	2	LUBE FITTING, STRAIGHT, 1/8
13	8022-1294	2	PIN
14	8820-1065	2	HEX HD CAPSCREW, 1/2-13X1, GR5
15	8855-1013	2	LOCKWASHER, 1/2
16	8362-1283	2	SPECIAL WASHER

* - Removed part number & added service note on item 3.

GRADALL

HYDRAULIC EXCAVATOR

Upperstructure

XL2300

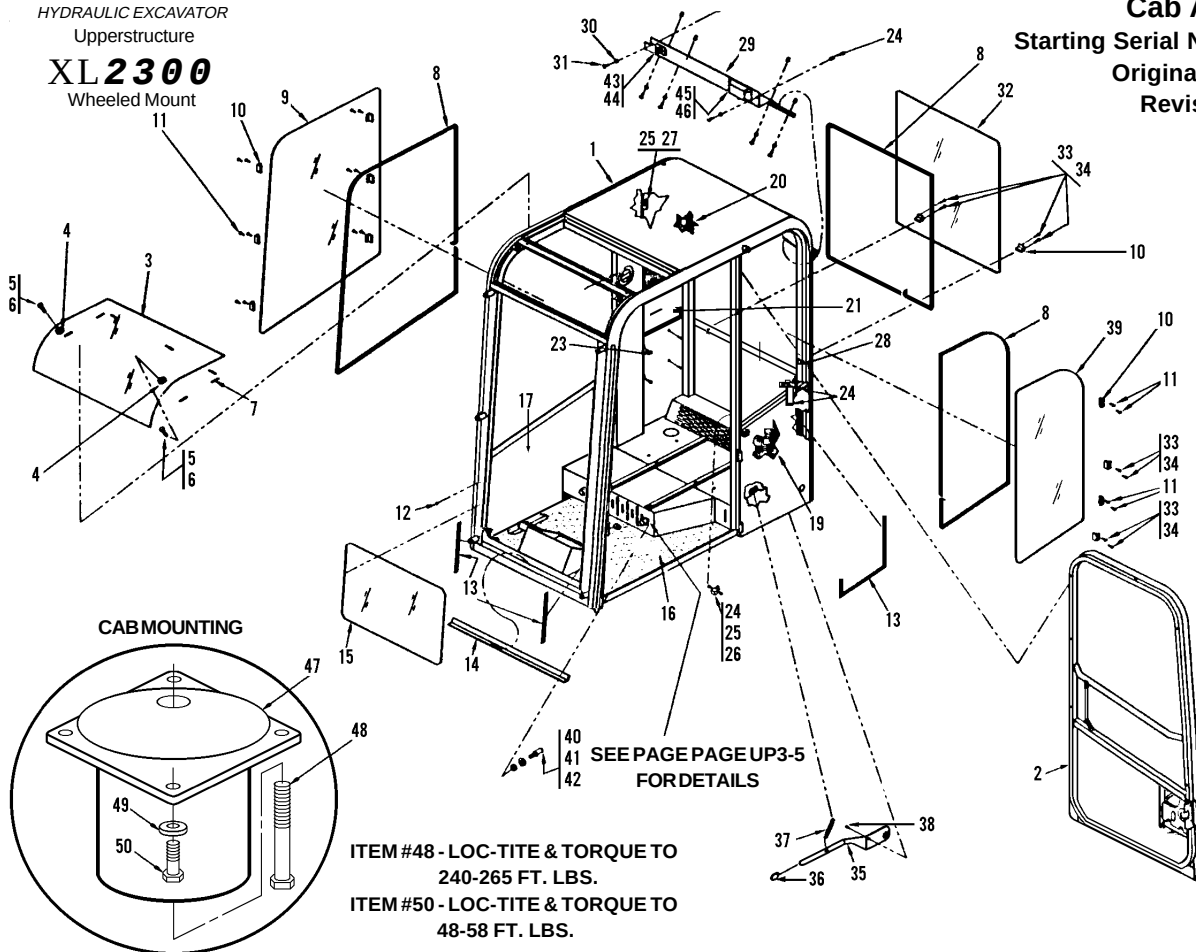
Wheeled Mount

CAB & RELATED COMPONENTS**Cab Assembly**

Starting Serial No. 0232412

Original Issue 8-99

Revised 8-17-01



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8026-3078	1	CAB ASSY, (includes all items on pages UP3-1, UP3-2 & UP3-5, except items 47 thru 50 on page UP3-1 & item 32 thru 45 on page UP3-5)	27	8026-4049	1	ACORN NUT
2		Ref	CAB DOOR ASSY, (see page UP3-2 for details)	28	8026-4050	1	BUMPER
3	8026-3050	1	SKYLIGHT	29	8026-4051	1	REAR CONSOLE COVER ASSY
4	8026-4028	2	WASHER	30	8026-4052	6	NYLON WASHER
5	8026-4029	2	BOLT, 1/2-13X1, GR5	31	8026-4053	6	SCREW, 1/4-20X3/4
6	8026-4030	2	HEX NUT, 1/2-13	*32	8026-3114	1	WINDOW GLASS, REAR
7	8026-4031	7	SETTING BLOCK	33	8026-4054	8	SCREW, #10-24X1-1/2
8	8026-4032	34'	SEAL	34	8026-4055	8	HEX NUT, #10-24
*9	8026-3113	1	WINDOW GLASS, R/H	35	8026-4056	1	RELEASE PLATE
10	8026-4033	12	WINDOW CLIP	36	8026-4057	1	GRIP
11	8026-4034	16	SCREW	37	8026-4058	1	SPRING
12	8026-4035	1	PLUG	38	8026-4059	1	BOLT
13	8026-4036	4.75'	WINDOW CHANNEL	*39	8026-3115	1	WINDOW GLASS, L/H REAR SIDE
14	8026-4037	2.6'	FOAM	40	8026-4060	1	BOLT
15	8026-3062	1	WINDOW GLASS, LOWER FRONT	41	8026-4061	1	WASHER
16	8026-4038	1	FLOORMAT	42	8026-4062	1	HEX NUT
17	8026-4039	1	FOAM PANEL, R/H FRONT	43	8026-4122	1	CIGARETTE LIGHTER
18	8026-4040	1	FOAM PANEL, REAR	44	8026-4123	1	CIGARETTE LIGHTER SOCKET
19	8026-4041	1	FOAM PANEL, L/H REAR	45	8026-4124	1	DOME LIGHT
20	8026-4042	1	FOAM HEADLINER	46	8026-4125	2	DRIVE SCREW, #10-16
21	8026-4043	1	FOAM PANEL, R/H REAR	47	8024-3017	4	LORD MOUNT
22	8026-4044	3	LOUVER	48	8820-1144	4	HEX HD CAPSCREW, 3/4-10X5-1/2, GR5
23	8026-4045	4	SCREW	49	8820-1050	16	HEX HD CAPSCREW, 7/16-14X1, GR5
24	8026-4046	9	RIVNUT, 1/4-20	50	8855-1012	16	LOCKWASHER, 7/16
25	8026-4047	2	COAT HANGER				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.
26	8026-4048	1	SCREW, 1/4-20X1-1/4, GR5				

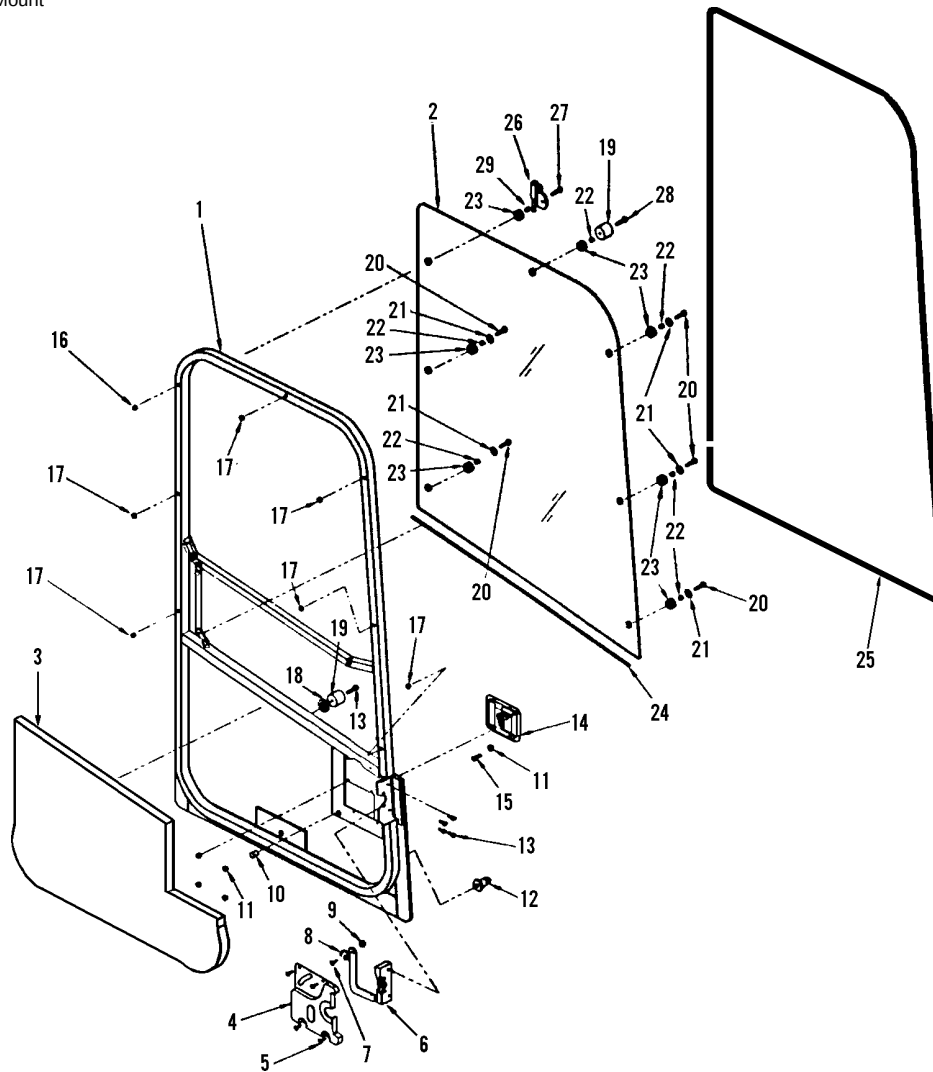
* - Changed part numbers on items 9, 32 & 39.

PCN980350-TT

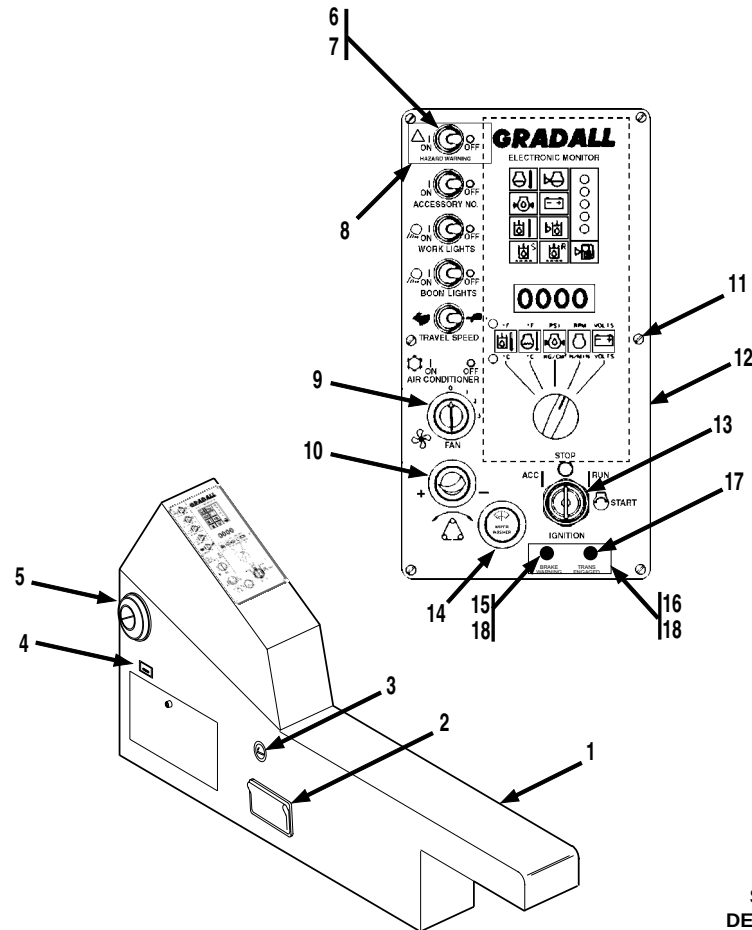
UP 3-1

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

CAB & RELATED COMPONENTS
(8026-4027) Cab Door
Starting Serial No. 0232412
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8026-4027	1	CAB DOOR ASSY, (includes all items)	16	8026-4077	1	ACORN NUT
1	8026-4063	1	DOOR WELDMENT	17	8026-4078	6	ACORN NUT
*2	8026-3058	1	WINDOW GLASS	18	8026-4079	1	WASHER, 3/4
3	8026-4064	1	FOAM PANEL, DOOR	19	8026-4080	2	RUBBER BUMPER
4	8026-4065	1	LATCH COVER	20	8026-4081	5	SCREW, 1/4-20X2
5	8026-4066	4	SCREW	21	8026-4082	6	WASHER
6	8026-4067	1	CAM LATCH	22	8026-4083	6	BUSHING, NYLON
7	8026-4068	1	HEX HD CAPSCREW, #10-24X5/8	23	8026-4084	7	GROMMET
8	8026-4069	1	KNOB	24	8026-4085	3'	FOAM
9	8026-4070	1	HEX NUT, #10-24	25	8026-4086	16.6'	SEAL
10	8026-4071	1	PLUG	26	8026-4087	1	HINGE
11	8026-4072	5	HEX NUT, 1/4-20	27	8026-4088	1	BOLT, 5/16X18X2-1/4
12	8026-4073	1	DOOR POST	28	8026-4089	1	SCREW, 1/4-20X3
13	8026-4074	5	SCREW, 1/4-20X3/4	29	8026-4090	1	BUSHING
14	8026-4075	1	PADDLE LATCH				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.
	8366-4231	2	DOOR KEY				
15	8026-4076	1	SCREW, 1/4-20X1-1/8				



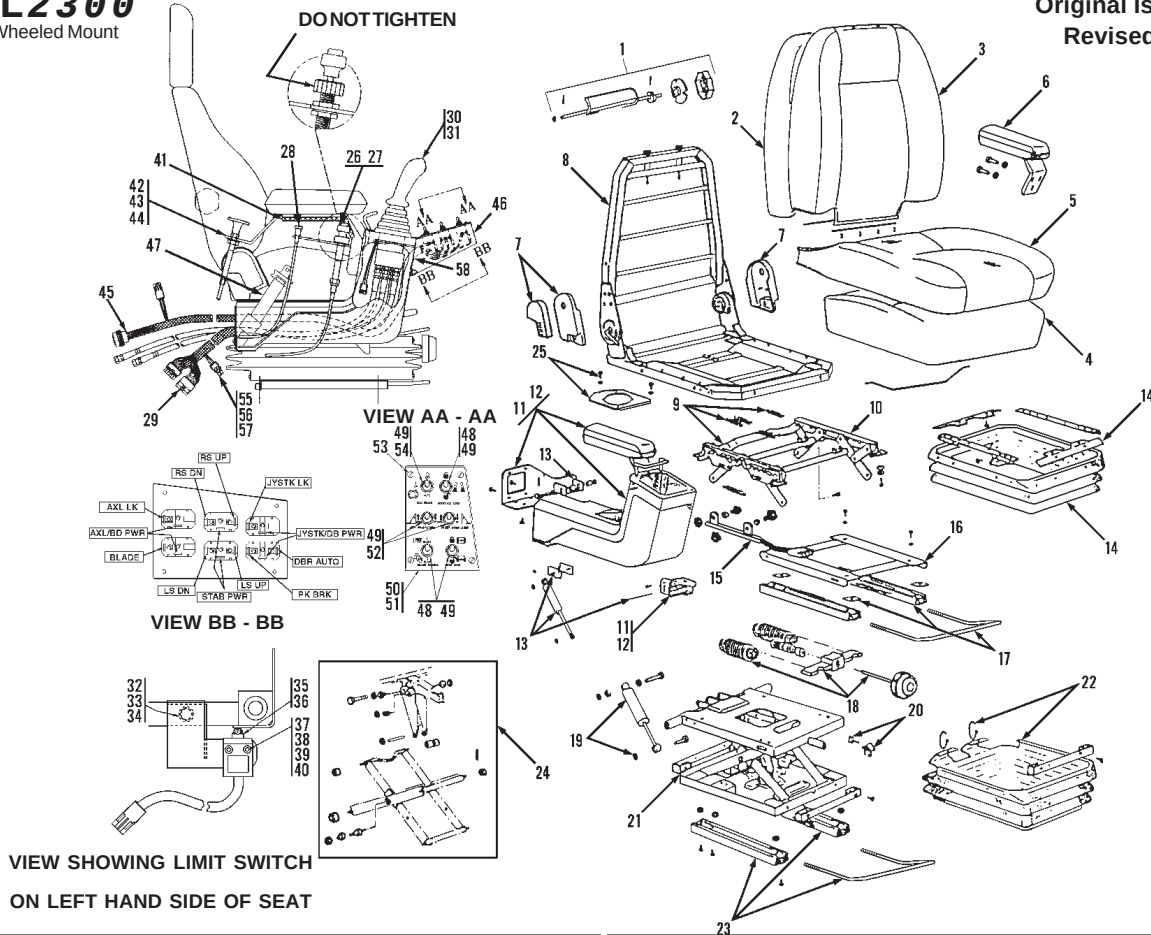
SEE PAGE UP3-6 FOR
DETAILS ON THE PRINTED
CIRCUIT BOARD,
(P/N 8026-4141)

Item	Part No.	Qty.	Description Of Part
1	8026-3083	1	CAB CONSOLE
2	7738-3891	1	ASH TRAY
3	8364-1367	1	CIGARETTE LIGHTER
4	9114-3130	1	HOURMETER
5	8096-3025	1	BALL LOUVER
6	8096-4003	5	TOGGLE SWITCH
7	7738-3470	5	TOGGLE SWITCH BOOT
8	8026-3132	1	HAZARD DECAL
9	8096-4001	1	HEATER SWITCH
10	8096-4002	1	TILT SPEED RHEOSTAT
11	8826-1008	6	BUTTON HD MACHINE SCREW, #10-24X1/2
12	8026-3082	1	ELECTRONIC MONITORING UNIT
13	9103-3317	1	IGNITION & STARTER SWITCH
14	8395-3038	1	WIPER & WASHER SWITCH
15	9114-3127	1	RED WARNING LIGHT
16	9114-3128	1	AMBER WARNING LIGHT
17	8026-3131	1	WARNING LIGHT DECAL
*18	9114-3129	2	TIMMERMAN NUT

* - Changed quantity on item 18; revised illustration.

GRADALL™
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

CAB & RELATED COMPONENTS
(8026-3006) Seat Assembly
Starting Serial No. 0232412
Original Issue 8-99
Revised 10-7-13



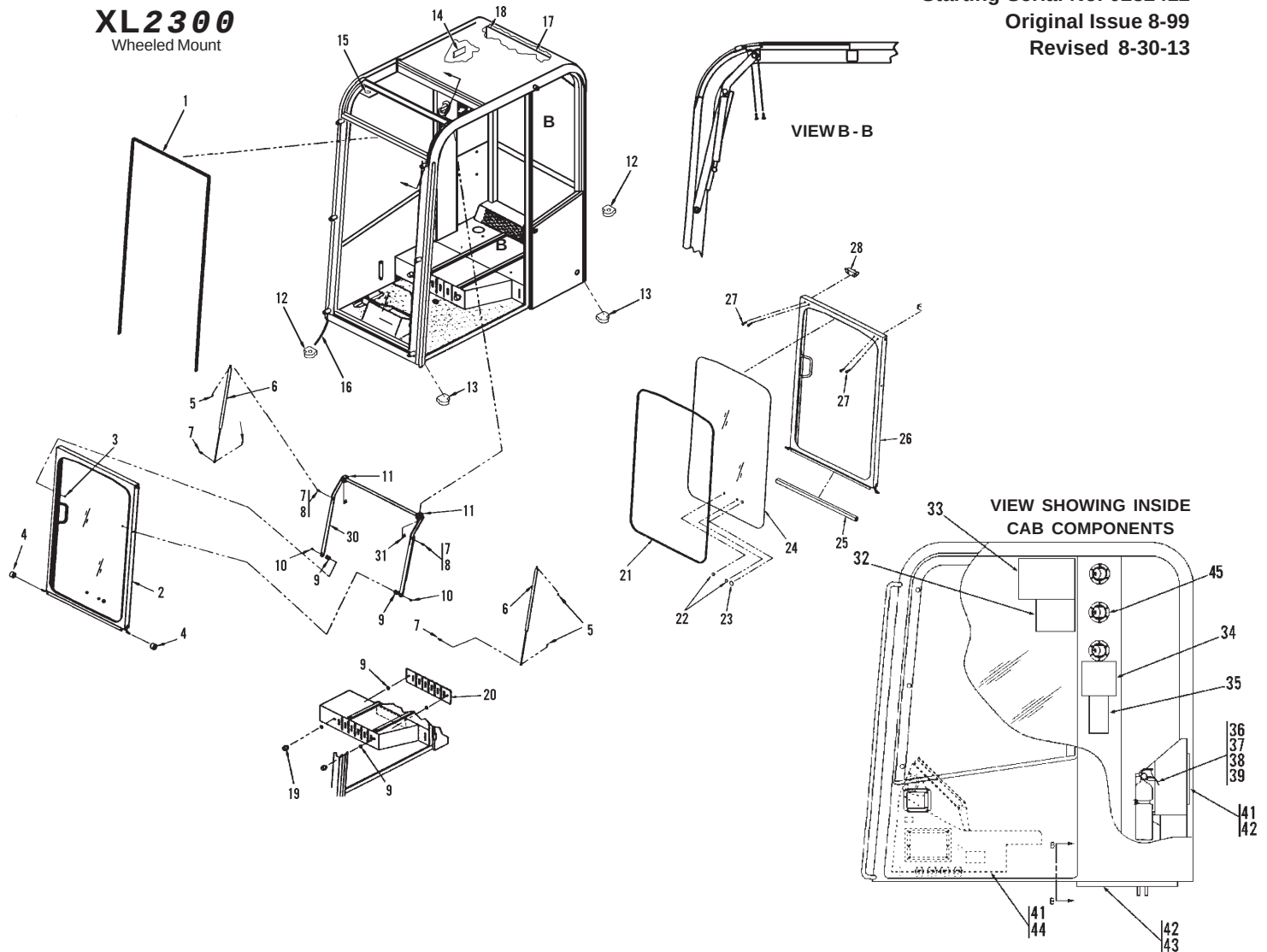
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8026-3006	1	SEAT ASSEMBLY, (includes items 1 thru 25)	29	8026-3013	1	SEAT HARNESS
	8026-4001	1	UPPER SEAT ASSY KIT, (includes items 1, 2, 3, 4, 5, 7 & 8)	30	8821-1042	8	SOCKET HD CAPSCREW, 1/4-20X1, GR8
1	8026-4026	1	LUMBAR SUPPORT KIT	31	8852-1204	8	HEX LOCKNUT, 1/4-20
2	8026-4002	1	BACK FOAM KIT	32	8319-1007	1	HEX HD CAPSCREW, M8-1.25X16, GR8
3	8026-4003	1	BACK COVER ASSY KIT	33	8855-1010	1	LOCKWASHER, 5/16
4	8026-4004	1	SEAT FOAM KIT	34	8856-1003	1	FLAT WASHER, 5/16
5	8026-4005	1	SEAT COVER ASSY KIT	35	8026-6007	1	LIMIT SWITCH BRACKET
6	8026-4006	1	ARMREST KIT	36	8096-5007	1	LIMIT SWITCH ASSY
7	8026-4007	1	RECLINER HANDLE COVER KIT	37	8821-1033	2	SOCKET HD CAPSCREW, #10-24X1-1/4, GR8
8	8026-4008	1	SEAT FRAME ASSY KIT	38	8850-1612	2	HEX NUT, #10-24
9	8026-4009	1	HEIGHT RISER SPRING KIT	39	8855-1007	2	LOCKWASHER, #10
10	8026-4010	1	HEIGHT RISER ASSY KIT	40	8856-1105	2	FLAT WASHER, #10
11	8026-4011	1	ADJUSTABLE CONSOLE ASSY KIT, R.H.	41	9020-6196	10"	TRIM-LOK
12	8026-4012	1	ADJUSTABLE CONSOLE ASSY KIT, L.H.	42	8026-1098	1	SWING LOCK BRACKET
13	8026-4013	1	CONSOLE ACCESSORY KIT	43	8026-3116	1	TWIST-LOCK CABLE
14	8026-4014	1	HEIGHT RISER KIT	44	8319-3025	2	HEX HD CAPSCREW, M6-1X25
15	8026-4015	1	HEIGHT RISER LATCH ASSY KIT	45	8026-3121	1	CONSOLE HARNESS
16	8026-4016	1	HEIGHT RISER MOUNT ASSY KIT	46	8026-1099	1	SWITCH CONSOLE
17	8026-4017	1	UPPER SLIDERAIL KIT	47	8026-3064	1	SEAT BELT KIT
18	8026-4018	1	WEIGHT ADJUSTER KIT	48	7738-3467	3	TOGGLE SWITCH
19	8026-4019	1	DAMPER ASSY KIT	49	7738-3470	6	TOGGLE SWITCH BOOT
20	8026-4020	1	HEIGHT RISER STOP KIT	50	8026-1100	1	SWITCH PLATE
21	8026-4021	1	SUSPENSION ASSY KIT	51	8026-3118	1	SWITCH DECAL
22	8026-4022	1	SUSPENSION COVER KIT	52	7738-3466	2	TOGGLE SWITCH
*23	8036-3005	1	LOWER SLIDERAIL KIT	53	8830-1090	4	ROUND HD MACHINE SCREW, #10-24X1/2
24	8026-4024	1	BEARING KIT	54	7738-3744	1	TOGGLE SWITCH
25	8026-4025	1	CONSOLE INSERT KIT	55	8096-3057	1	WEATHER-PROOF TOWER, (2 pin)
26	8026-3003	1	THROTTLE CABLE	56	8096-3068	2	FEMALE PIN
27	8026-1013	1	THROTTLE BRACKET	57	8096-3066	2	CABLE SEAL
28	7738-3056	1	HEATER CONTROL CABLE	58	8656-1279	1	GROMMET

* - Changed part number on item 23.

GRADALL™
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

CAB & RELATED COMPONENTS

Cab Miscellaneous
Starting Serial No. 0232412
Original Issue 8-99
Revised 8-30-13



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8026-4091	1	SEAL	25	8026-4113	2.4'	RUBBER SEAL
2	8026-4092	1	FRONT WINDOW ASSY, (includes items 21 thru 29)	26	8026-4114	1	FRONT WINDOW WELDMENT
3	8026-4093	2	LOCKNUT	27	8026-4115	4	SCREW, 1/4-20X3/4
4	8026-4094	2	FRONT WINDOW ROLLER	28	8026-4116	1	LATCH ASSY, R/H
5	8026-4095	4	CLIP	29	8026-4117	1	LATCH ASSY, L/H
6	8026-4096	2	GAS SPRING	*30	8026-4142	1	FRONT WINDOW LINKAGE
7	8026-4097	4	STUD	31	8026-4119	4	SOCKET HD CAPSCREW, 1/4-20X1-1/4
8	8026-4098	2	WASHER	32	8026-3128	1	LIFT CAPACITY CHART
9	8026-4099	8	WASHER	33	8026-3125	1	OPERATING DECAL, (Gradall)
10	8026-4059	2	BOLT		8026-3126	1	OPERATING DECAL, (SAE), (opt.)
11	8026-4100	4	CLAMP BLOCK		8026-3127	1	OPERATING DECAL, (Deere), (opt.)
12	8026-4101	2	FOAM PLUG	34	8026-3129	1	ROAD TRAVEL DECAL
13	8026-4102	2	FOAM PLUG	35	8091-3074	1	ACCIDENT PREVENTION DECAL
14	8026-4103	1	TAG	36	8369-3016	1	FIRE EXTINGUISHER
15	8026-4104	1	GROMMET	37	8820-1005	2	HEX HD CAPSCREW, 1/4-20X1, GR5
16	8026-4105	1	FRONT HARNESS	38	8856-1002	2	FLAT WASHER, 1/4
17	8026-4106	1	REAR HARNESS	39	8852-1204	2	HEX LOCKNUT, 1/4-20
18	8026-4107	1	GROMMET	40	8026-3084	1	REAR STORAGE COMPARTMENT
19	8026-4108	2	KNOB	41	9002-7319	13	DRILL & TAP SCREW, 14-20X1
20	8026-4109	1	EXHAUST PLATE	42		Ref	HEATER ASSEMBLY, (see page UP3-11 for details)
21	8026-4110	10.8'	WINDOW SEAL	43	7714-3013	8	WHIZ-LOK NUT, 1/4-20
22	8026-4111	2	PLUG	44		Ref	CAB CONSOLE ASSY, (see page UP3-3 for details)
23	8026-4112	1	PLUG	45	8026-4044	3	LOUVER
24	8026-3100	1	WINDOW GLASS, FRONT				

* - Changed part number on item 30.

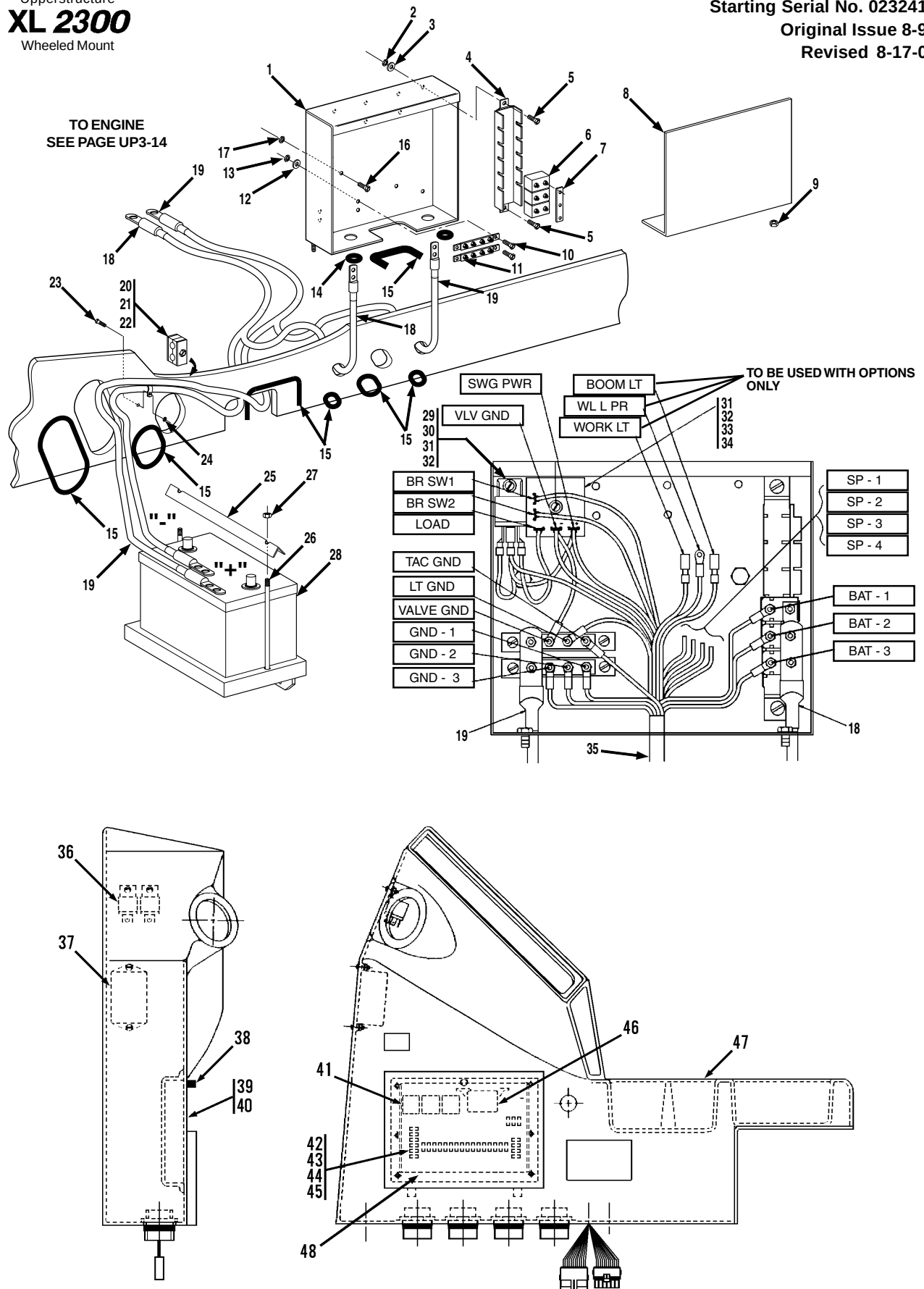
GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL 2300
Wheeled Mount

CAB & RELATED COMPONENTS
Batteries & Miscellaneous Electrical Components

Starting Serial No. 0232412

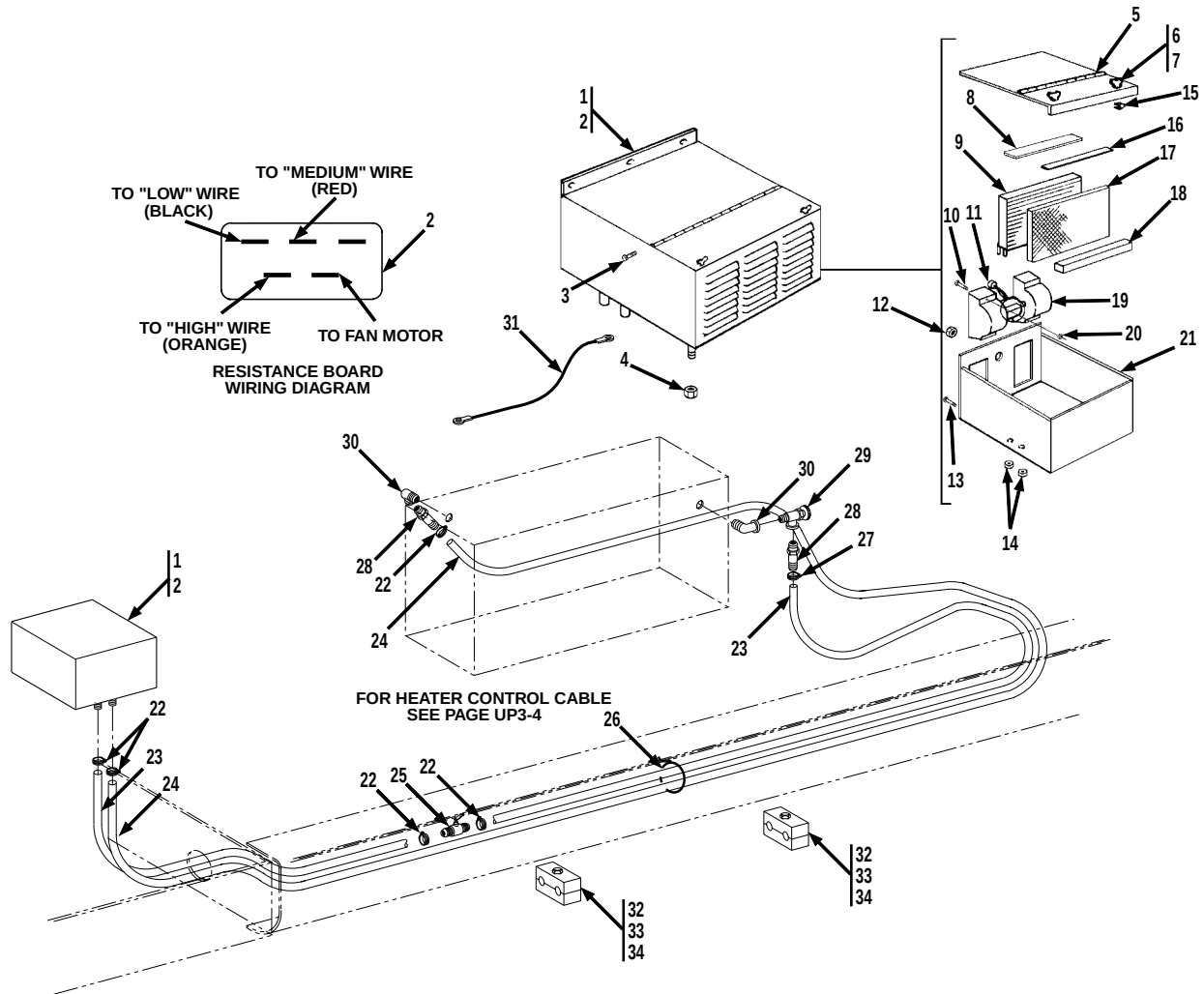
Original Issue 8-99

Revised 8-17-01

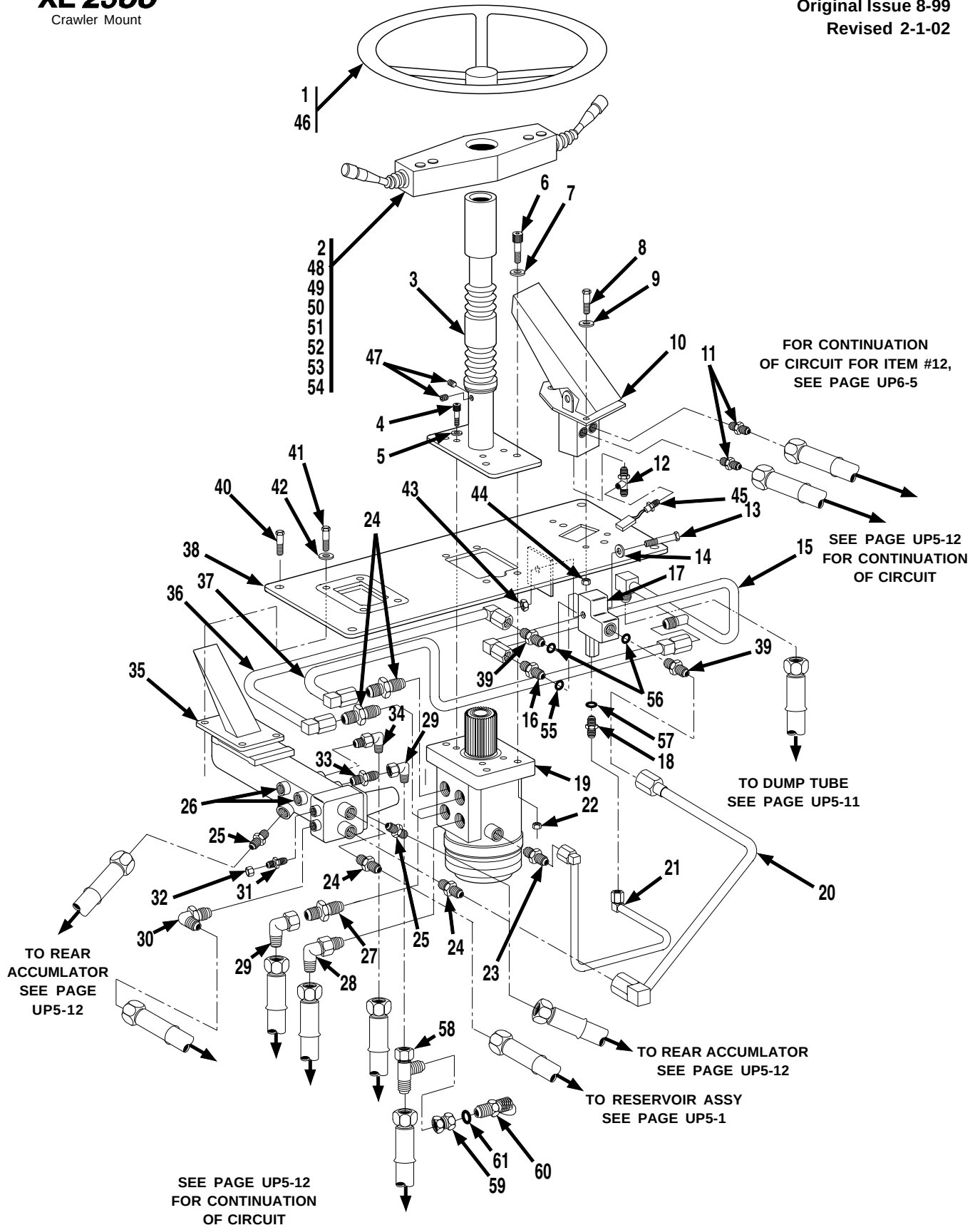


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8096-5003	1	POWER BOX ASSY, (includes items 1 thru 14)	24	8852-1306	1	HEX LOCKNUT, 3/8-16
1	8096-1097	1	POWER BOX	25	8027-1033	1	BATTERY HOLD-DOWN
2	8850-1004	2	HEX NUT, 1/4-20	26	9108-1640	2	TIE-DOWN STUD
3	8855-1009	2	LOCKWASHER, 1/4	*27	7714-3006	2	WHIZ-LOK NUT, 5/16-18
4	8368-3029	1	CIRCUIT BREAKER BRACKET	28		1	BATTERY, (purchase locally)
5	8830-1123	2	ROUND HD MACHINE SCREW, 1/4-20X1/2	29	7738-3410	1	RELAY
6	8698-3041	3	CIRCUIT BREAKER, 20 AMP	30	8830-1070	1	ROUND HD MACHINE SCREW, #8-32X1/2
7	8698-1178	1	BUSS BAR	31	8856-1104	4	FLAT WASHER, #8
8	8096-1098	1	POWER BOX COVER	32	8852-1604	2	HEX LOCKNUT, #8-32
*9	7714-3013	2	WHIZ-LOK NUT, 1/4-20	33	8026-3041	1	TIME DELAY RELAY
*10	8830-1092	4	ROUND HD MACHINE SCREW, #10-24X5/8	34	8830-1077	1	ROUND HD MACHINE SCREW, #8-32X1-1/4
11	8368-3132	1	TERMINAL BLOCK	35	8026-3097	1	UPPER HARNESS
12	8855-1007	2	LOCKWASHER, #10	36	7738-3410	1	RELAY
13	8850-1612	2	HEX NUT, #10-24	37	8096-3151	1	FLASHER MODULE
14	8696-1044	2	GROMMET	38	8096-3103	1	LATCH
15		AR	FLEX GUARD	39	8026-3088	1	COVER
16	8097-3025	2	WHIZ-LOK SCREW, 3/8-16X1	40	8091-3021	1	FUSE DECAL
17	7714-3015	2	WHIZ-LOK NUT, 3/8-16	41	7736-3265	3	RELAY, (single pole-double throw)
18	8027-3041	1	POSITIVE BATTERY CABLE	42	8096-4008	10	FUSE, (5 amp)
19	8027-3024	1	NEGATIVE BATTERY CABLE	43	7736-3267	15	FUSE, (10 amp)
20	7713-3136	2	CLAMP SET	44	8096-4009	3	FUSE, (25 amp)
21	8820-1023	2	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	45	7736-3268	1	FUSE, (15 amp)
22	7713-3137	2	COVER PLATE	46	7738-3377	1	RELAY, (single pole-single throw)
23	8820-1038	1	HEX HD CAPSCREW, 3/8-16x1-3/4, GR5	47	8020-3044	1	CONSOLE
				48	8026-4141	1	PRINTED CIRCUIT BOARD, (see previous page for details)

* - Changed part numbers on items 9 & 27; changed quantity on item 10; revised illustration.



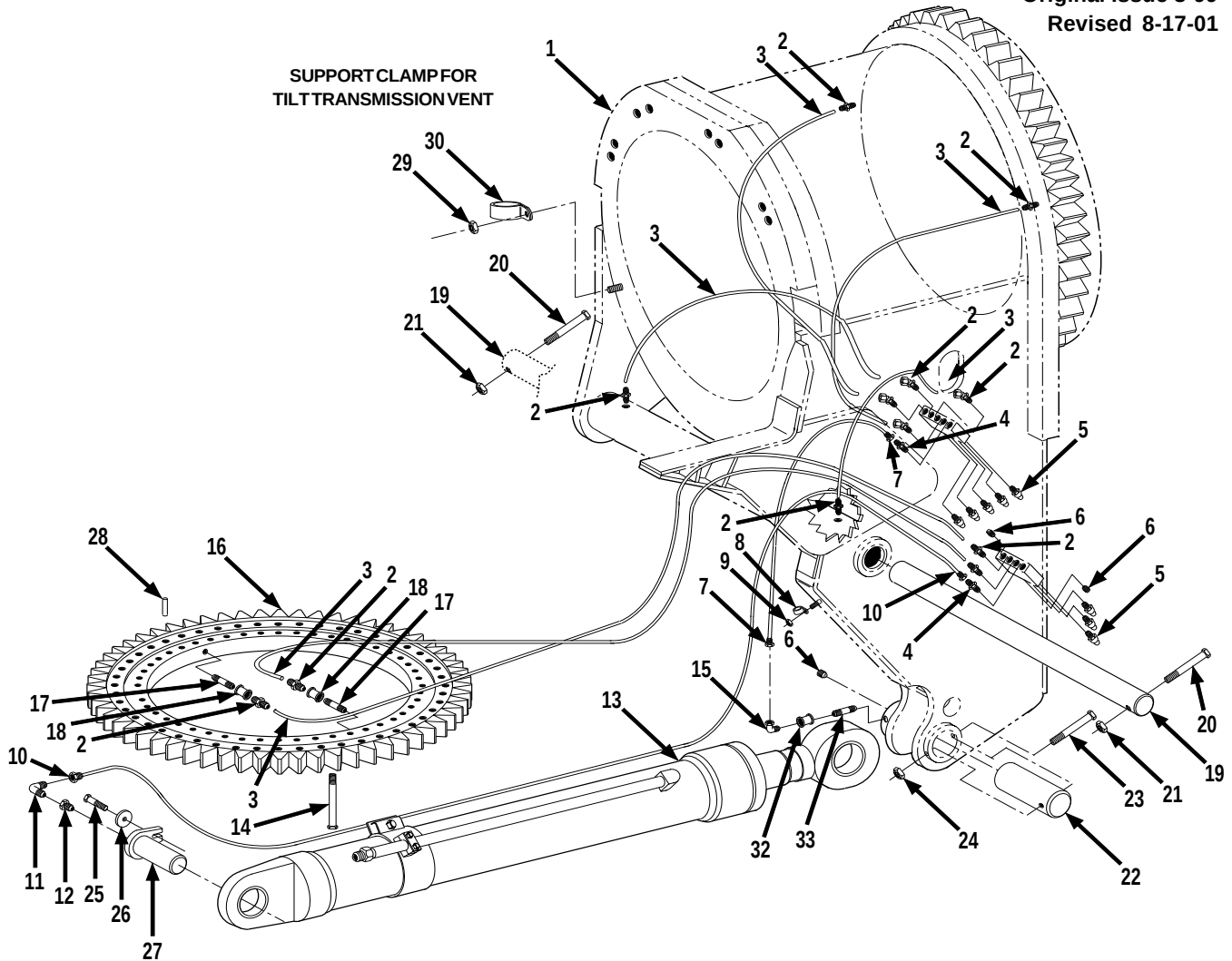
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8026-3011	1	CAB HEATER ASSY, (includes items 1 thru 21, except item 4)	17	8096-4017	1	FILTER, WIRE MESH
2	8096-4036	1	RESISTANCE BOARD	18	8096-4016	1	FILTER
3	8096-4061	4	SCREW	19	8096-4045	1	BLOWER
4	7714-3013	8	WHIZ-LOK NUT, 1/4-20	20	8096-4063	9	NUT
5	8026-4118	1	COVER ASSY	21	8026-4121	1	CASE
6	8096-4059	2	SPRING	22	8667-1187	5	CLAMP
7	8096-4060	2	WING NUT	23		AR	HEATER HOSE, RED
8	8026-4119	1	CORE GASKET	24		AR	HEATER HOSE, BLACK
9	8096-4018	1	HEATER CORE	25	8368-3182	1	HEATER CONTROL VALVE
10	8096-4062	9	SCREW	26	9002-7187	7	TY-RAP
11	8026-4120	1	WIRE HARNESS, (to distribution box)	27	8503-1405	1	CLAMP
12	8096-4054	1	GROMMET	28	8471-2742	2	HOSE NIPPLE
13	8096-4064	7	SCREW	29	9108-3155	1	HEATER VALVE
14	8096-4014	2	GROMMET	30	8871-1103	2	STREET ELBOW, 90 DEGREES, 1/8
15	8096-4057	2	RETAINER	31	8026-3042	1	GROUND STRAP
16	8096-4056	1	FILTER GASKET	32	7732-3068	2	TWIN CLAMP SET
				33	7713-3137	2	COVER PLATE
				34	8820-1023	2	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8026-3086	1	STEERING WHEEL	30	8319-3022	1	ELBOW, 90 DEGREES, (includes o-ring)
2	8026-3102	1	STEERING COLUMN SWITCH, (includes items 48 thru 54)	31	8023-3141	1	ADAPTER, (includes o-ring)
3	8026-3087	1	STEERING COLUMN	32	8866-1362	1	HEX CAP, 1/4 TUBE
4	8319-1064	4	SOCKET HD CAPSCREW, M10-1.50X20, GR8	33	8319-3019	1	ADAPTER, (includes o-ring)
5	8319-1013	4	LOCKWASHER, M10	34	8319-3023	1	ELBOW, 90 DEGREES, (includes o-ring)
6	8821-1072	4	SOCKET HD CAPSCREW, 3/8-16X1-1/4, GR5	35		Ref	BRAKE VALVE ASSY, (see page UP4-32 for details)
7	8856-1004	4	FLAT WASHER, 3/8	36	8023-3311	1	TUBE ASSY
8	8820-1005	3	HEX HD CAPSCREW, 1/4-20X1, GR5	37	8023-3312	1	TUBE ASSY
9	8855-1009	3	LOCKWASHER, 1/4	38	8026-6019	1	PEDAL PLATE WELDMENT
10		Ref	FOOT PEDAL CONTROL VALVE ASSY, (see page UP4-11 for details)	*39	8866-2019	2	CONNECTOR, (includes item 56)
11	8023-3214	2	ADAPTER, (includes o-ring)	40	8826-1029	6	SOCKET BUTTON HD CAPSCREW, 3/8-16X1
12	8023-3196	1	TEE, (includes o-ring)	41	8319-1045	4	HEX HD CAPSCREW, M8-1.25X30
13	8820-1011	1	HEX HD CAPSCREW, 1/4-20X2-1/2, GR5	42	8319-1011	4	LOCKWASHER, M8
14	8856-1002	1	FLAT WASHER, 1/4	43	8852-1204	1	HEX LOCKNUT, 1/4-20
15	8023-3213	1	TUBE ASSY	44	8850-1004	3	HEX NUT, 1/4-20
16	8866-2006	1	CONNECTOR, (includes item 55)	45	8093-3313	1	PRESSURE SWITCH
17		Ref	PRIORITY VALVE ASSY, (see page UP4-31 for details)	46	8026-3122	1	CENTER CAP
18	8866-2003	1	CONNECTOR, (includes item 57)	47	8026-1101	2	SET SCREW, M10-1.5X10, (loctite & torque to 31 ft. lbs.)
19	8023-3134	1	STEERING CONTROL ASSY	48	8096-3063	1	TOWER, (six-wire)
20	8023-3208	1	TUBE ASSY	49	8096-3062	1	SHROUD, (four-wire)
21	8023-3207	1	TUBE ASSY	50	8096-3064	1	SHROUD, (six-wire)
22	8852-1206	4	HEX LOCKNUT, 3/8-16	51	8096-3068	6	FEMALE PIN TERMINAL
23	8023-3140	1	ADAPTER, (includes o-ring)	52	8096-3069	9	MALE PIN TERMINAL
24	8319-3018	4	ADAPTER, (includes o-ring)	53	8096-3066	15	SEAL PLUG
25	8319-3009	2	ADAPTER, (includes o-ring)	54	8096-3070	1	CAVITY PLUG
26		Ref	PRESSURE SWITCH, (see page UP4-32 for details)	55	8859-1205	1	O-RING
*27	8023-3215	1	ADAPTER, (includes o-ring)	56	8859-1206	2	O-RING
28	8319-3024	1	ELBOW, 90 DEGREES, (includes o-ring)	57	8859-1202	1	O-RING
29	8866-2372	2	ELBOW, 90 DEGREES, (swivel nut)	58	8866-2438	1	SWIVEL NUT RUN TEE
				59	8866-2493	1	MALE SWIVEL ADAPTER
				60	8023-3203	1	MINI-CHECK COUPLING, (includes item 61)
				61		1	VITON O-RING, (lubricate lightly)

* - Changed part number on item 27; added item 39.

LK

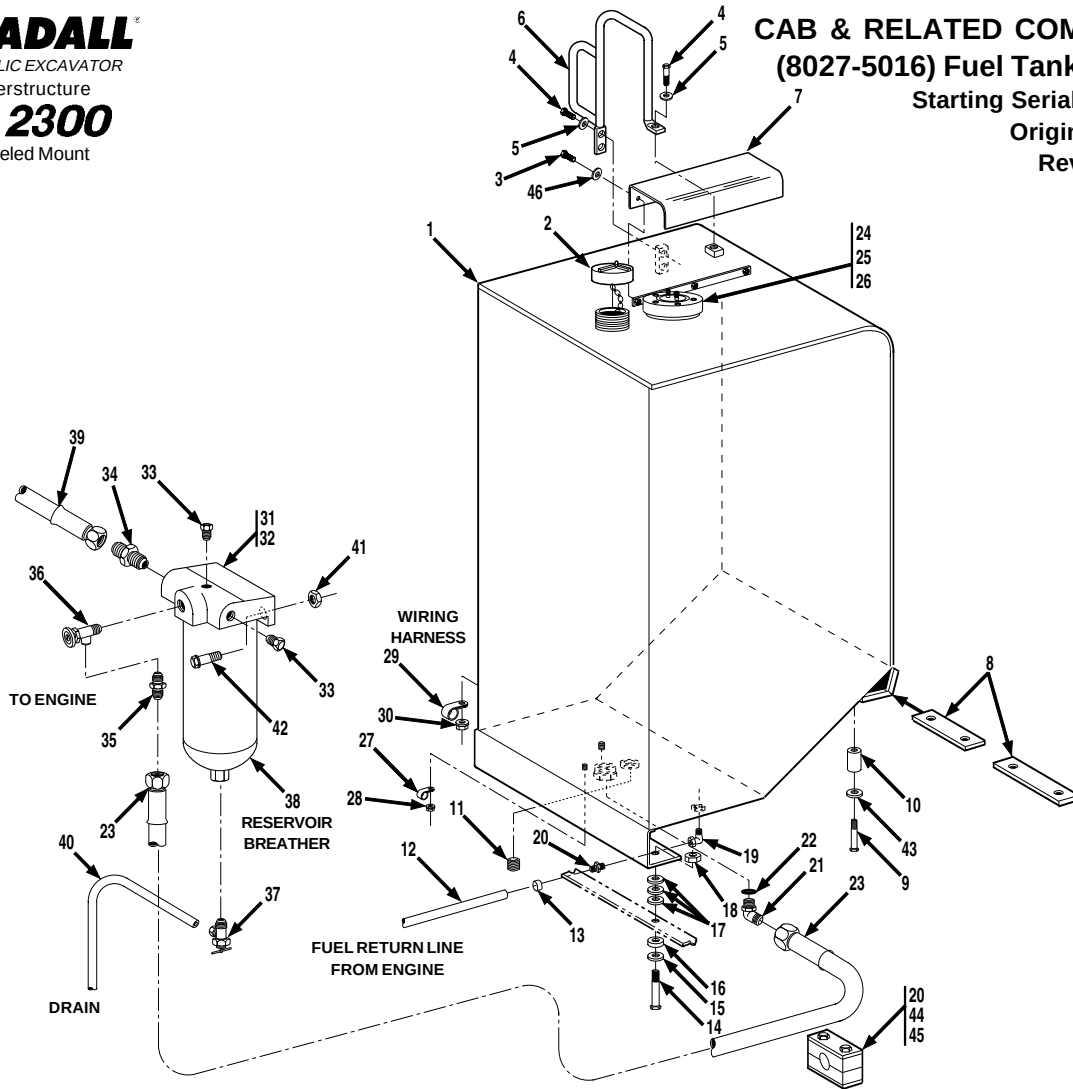


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1		Ref	BOOM CRADLE ASSY, (see page UP2-1 for details)	15	8866-1136	1	MALE ELBOW, 45 DEGREES, 1/8X3/16 TUBE
2	8688-1273	8	TUBE FITTING	*16	8024-3113	1	SWING GEAR/BEARING
3		AR	NYLON TUBING, 1/4	17	8870-1023	2	PIPE NIPPLE, 1/8X3
4	8866-1002	2	MALE CONNECTOR, 1/8X3/16 TUBE	18	8368-3435	2	PIPE COUPLING, 1/8
5	8867-1001	8	LUBE FITTING, STRAIGHT, 1/8	19	8022-3048	1	CRADLE PIN WELDMENT
6	8871-1280	3	HEX SOCKET PIPE PLUG, 1/8	20	8820-1327	2	HEX HD CAPSCREW, 5/8-11X6, GR5
7	8471-8482	1	HOSE ASSY	21	8852-1210	2	HEX LOCKNUT, 5/8-11
8	8662-1230	1	SUPPORT CLAMP	22	8024-1088	1	FRONT HOIST PIN WELDMENT
9	8850-1006	1	HEX NUT, 3/8-16	23	8820-1316	1	HEX HD CAPSCREW, 1/2-13X5-1/4, GR5
10	8471-8309	1	HOSE ASSY	24	8852-1208	1	HEX LOCKNUT, 1/2-13
11	8866-1102	1	MALE ELBOW, 90 DEGREES, 1/8X3/16 TUBE	25	8820-1065	1	HEX HD CAPSCREW, 1/2-13X1, GR5
12	8869-1302	1	STRAIGHT CONNECTOR, 1/8	26	8362-1283	1	SPECIAL WASHER
13		Ref	HOIST CYLINDER ASSY, (see pages UP4-14 & UP4-29 for details)	27	8024-6001	1	REAR HOIST PIN WELDMENT
14	8022-3024	38	HEX HD FLANGE BOLT, 5/8-11X4, (lubricate & torque to 200-215 ft. lbs.)	28	8863-1684	1	DOWEL PIN
				29	7714-3015	1	WHIZ-LOK NUT, 3/8-16
				30	8652-1144	1	SUPPORT CLAMP
				31	8688-1281	4	TUBE FITTING, 45 DEGREES
				32	8871-1210	1	PIPE COUPLING, 1/8
				33	8870-1021	1	PIPE NIPPLE, 1/8

* - Changed part number on item 16.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL 2300
Wheeled Mount

CAB & RELATED COMPONENTS
(8027-5016) Fuel Tank Assembly
Starting Serial No. 0232412
Original Issue 8-99
Revised 8-17-01



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8027-5016	1	FUEL TANK ASSY, (includes items 1, 4, 5, 6, 19, 21, 22, 24, 25 & 26)	22	8859-1206	1	O-RING
1	8027-3012	1	FUEL TANK, 60.6 GALLON CAPACITY, (includes item 2)	23	8471-8156	1	HOSE ASSY
2	8654-1381	1	VENTED FUEL TANK CAP	24	8027-3022	1	FUEL SENDER
3	8820-1033	3	HEX HD CAPSCREW, 3/8-16X3/4, GR5	25	8830-1200	5	ROUND HD MACHINE SCREW, #10-32X1-1/4
4	8820-1065	3	HEX HD CAPSCREW, 1/2-13X1, GR5, (loctite & torque to 68-78 ft. lbs.)	26	8507-1058	1	GASKET
5	8855-1013	3	LOCKWASHER, 1/2	27	8594-1016	1	SUPPORT CLAMP
*6	8027-3063	1	GRAB RAIL	28	7714-3006	1	WHIZ-LOK NUT, 5/16-18
7	8027-1076	1	FUEL SENDER COVER	29	2486-1170	1	SUPPORT CLAMP
8	8027-1217	2	RETAINER BAR	30	7714-3015	1	WHIZ-LOK NUT, 3/8-16
9	8820-1101	4	HEX HD CAPSCREW, 5/8-11X3, GR5, (lubricate & torque to 140-45 ft. lbs)	31	8027-5009	1	FUEL/WATER SEPARATOR ASSY, (includes items 32 thru 38)
*10	8027-1221	4	SPACER	32	8368-3377	1	MOUNTING BASE
11	8871-1384	1	HEX SOCKET PIPE PLUG, 3/4	33	8871-1282	2	HEX SOCKET PIPE PLUG, 3/8
12		8'	FUEL RETURN LINE, 5/16"	34	8866-1009	1	MALE CONNECTOR, 3/8X3/8 TUBE
13	8348-3497	2	HOSE CLAMP	35	8874-3018	1	MALE ADAPTER, 3/8X5/8 TUBE
14	8820-1099	3	HEX HD CAPSCREW, 5/8-11X2-1/2, GR5	36	8027-3073	1	VALVE
15	8855-1015	3	LOCKWASHER, 5/8	37	8093-3225	1	DRAIN VALVE
16	8024-1073	3	SPECIAL WASHER	38	7713-3819	1	FUEL/WATER SEPARATOR BOWL
*17	8024-3028	AR	FLAT WASHER, 5/8, (use as spacer between frame rail and fuel tank)	39	8471-8496	1	HOSE ASSY
18	8850-1010	3	HEX NUT, 5/8-11	40		30"	NYLON TUBE, 1/4
*19	8471-2745	1	HOSE NIPPLE, 90 DEGREES, 1/4	41	7714-3006	2	WHIZ-LOK NUT, 5/16-18
20	8325-3009	1	CLAMP SET	42	7714-3004	2	WHIZ-LOK SCREW, 5/16-18X1-1/4
21	8866-2066	1	ELBOW, 90 DEGREES, (includes item 22)	43	9002-7472	4	HARDENED WASHER, 5/8
				44	8325-3010	1	COVER PLATE
				45	8820-1040	2	HEX HD CAPSCREW, 3/8-16X2-1/4, GR5
				*46	8855-1011	3	LOCKWASHER, 3/8

* - Changed part numbers on items 6, 10, 17 & 19; revised note on part number 8027-5016; added item 46.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

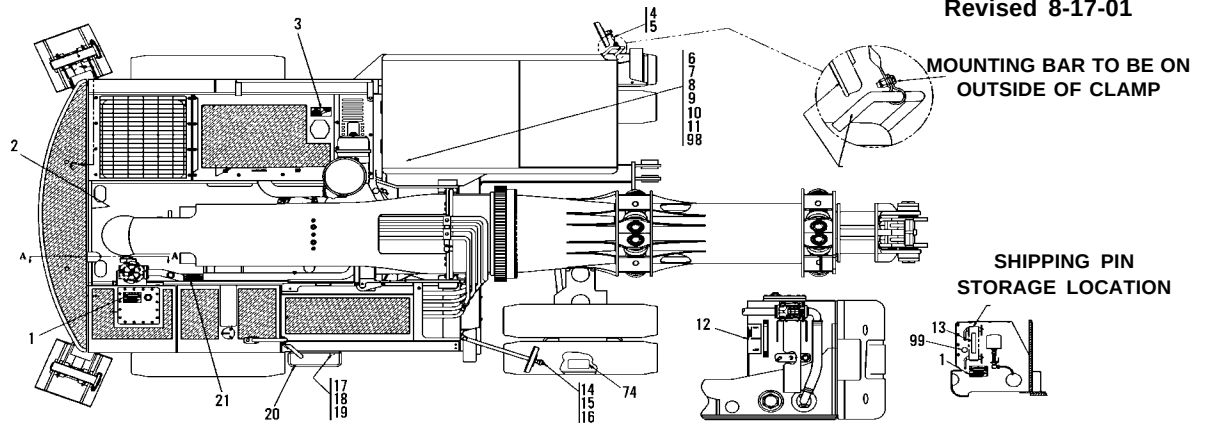
CAB & RELATED COMPONENTS

Decals

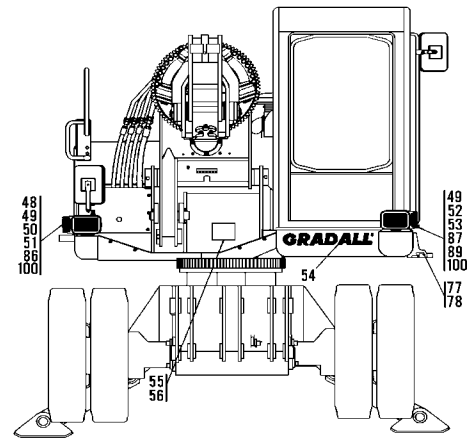
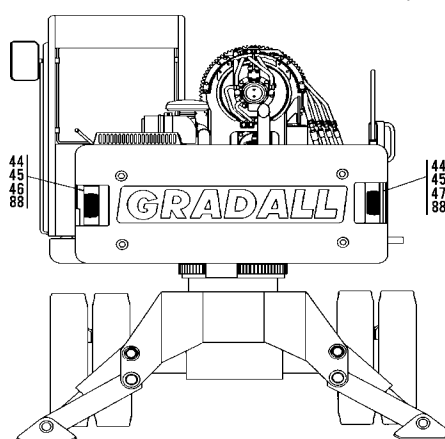
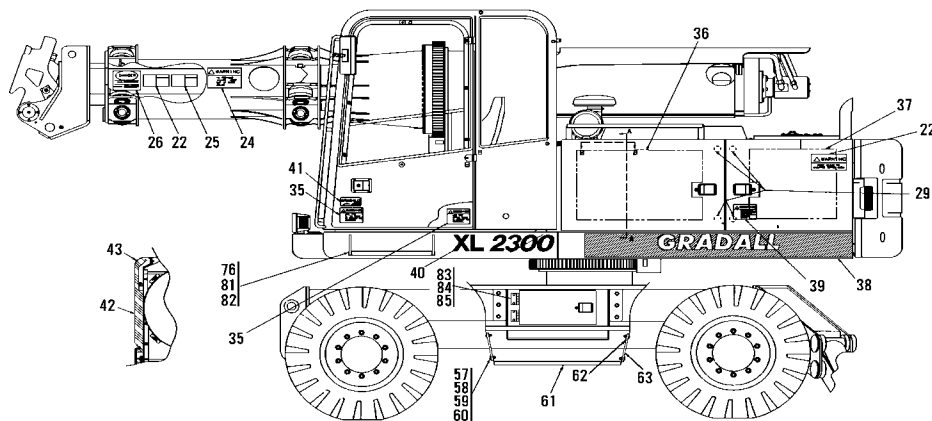
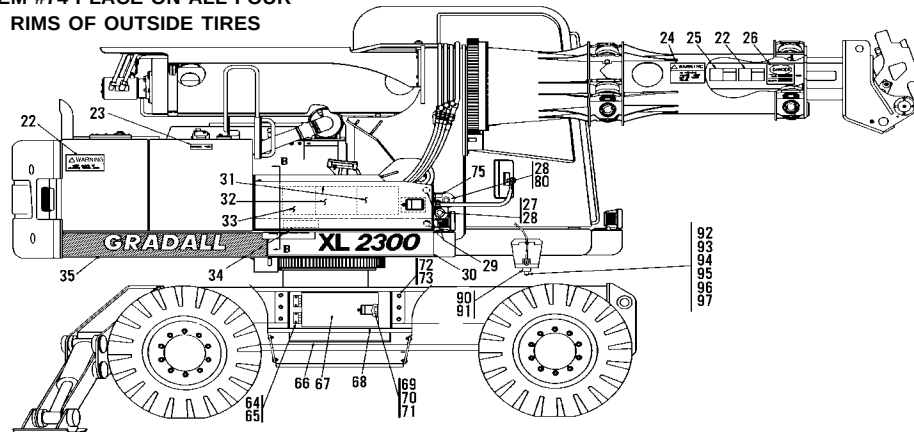
Starting Serial No. 0232412

Original Issue 8-99

Revised 8-17-01



ITEM #74 PLACE ON ALL FOUR
RIMS OF OUTSIDE TIRES



CAB & RELATED COMPONENTS**Decals**

Starting Serial No. 0232412

Original Issue 8-99

Revised 8-17-01

Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
*1	8090-3012	2	HYDRAULIC SYSTEM WARNING DECAL	*51	8024-6035	1	BRACKET COVER, R.H.
2	7736-3358	1	INSTRUCTION DECAL	52	8024-3024	1	HEADLIGHT, L.H.
3	8060-3026	1	COOLING SYSTEM CAUTION DECAL	53	8024-6033	1	BRACKET COVER, L.H.
4	8026-3054	1	MIRROR, L.H.	*54	7733-3053	1	GRADALL DECAL
5	8026-3052	1	MIRROR MOUNT	55	7733-3047	1	SERIAL PLATE
6	2300-4002	1	SERVICE MANUAL	56	8834-1012	4	DRIVE SCREW, #4X5/16
*7	2460-4161	1	SAFETY MANUAL	57	8820-1038	16	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5
8	8060-3007	1	EMI SAFETY MANUAL	58	8856-1004	32	FLAT WASHER, 3/8
9	7733-1004	1	CUMMINS ENGINE MANUAL	59	8852-1206	16	HEX NUT, 3/8-16
10	2300-4003	1	OPERATOR MANUAL	60	8027-1315	4	CAP PLATE
11	2300-4001	1	PARTS MANUAL	61	8027-6062	2	BOTTOM RUNG
12	8697-1197	1	RESERVOIR FILL DECAL	62	8027-1316	4	CAP PLATE
13	8027-3055	1	SHIPPING PIN SILENCER	63	8027-3104	4	STEP SUPPORT
14	8026-3053	1	MIRROR, R.H.	64	8097-3025	8	WHIZ-LOK SCREW, 3/8-16X1
15	8026-3051	1	MIRROR MOUNT	65	7714-3015	8	WHIZ-LOK NUT, 3/8-16
16	8097-3025	6	WHIZ-LOK SCREW, 3/8-16X1	66	8027-6061	2	TOOL BOX WELDMENT
17	8820-1067	2	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	67	8027-6057	2	TOOL BOX DOOR WELDMENT
18	8855-1013	2	LOCK WASHER, 1/2	68	9020-6196	120"	TRIM LOK
19	8850-1008	2	HEX NUT, 1/2-13	69	8820-1003	4	HEX HD CAPSCREW, 1/4-20X3/4, GR5
20	8021-6008	1	STEP WELDMENT	70	8856-1002	4	FLAT WASHER, 1/4
21	9114-3288	1	HYDRAULIC OIL DECAL	71	8027-1314	2	LATCH BRACKET
22	8060-3039	4	ACCIDENT PREVENTION DECAL	72	8378-3042	12	HEX HD CAPSCREW, M12-1.17X25
23	7702-3008	1	DIESEL FUEL DECAL	73	8856-1006	12	FLAT WASHER, 1/2
24	8060-3037	2	WARNING DECAL	74	8020-3009	4	TIRE PRESSURE DECAL
25	8090-3017	2	WARNING DECAL	75	8020-3013	1	BOOM POSITION DECAL
26	8360-1011	2	ACCIDENT PREVENTION DECAL	76	8024-1221	1	CAB STEP WELDMENT
27	8021-1040	1	SHIPPING PIN	77	8825-1034	4	SOCKET HD SHOULDER SCREW, 1/2X1/2, (10-24 thread)
28	8021-3013	3	HITCH PIN	78	8856-1109	4	FLAT WASHER, 3/8
*29	8060-3029	4	METAL DOT	79	8024-1222	1	MIRROR BRACKET
30	8021-3081	1	RIGHT FRONT DECAL	80	8020-6008	1	TRAVEL PIN
31	8020-3014	1	LUBE/MAINTENANCE DIAGRAM DECAL	81	8024-3029	4	HEX SOCKET HD CAPSCREW
32	8020-3015	1	MAINTENANCE SCHEDULE DECAL	82	8856-1109	4	FLAT WASHER, 1/2
33	8020-3016	1	LUBE/TORQUE CHART DECAL	83	8027-1323	1	TRAVEL PIN BRACKET
34	9108-3492	1	OIL WARNING DECAL	84	8097-3025	4	WHIZ-LOK BOLT, 3/8-16X1
*35	8060-3036	1	RIGHT REAR DECAL	85	7714-3015	4	WHIZ-LOK NUT, 3/8-16
36	8027-3072	1	DOOR FOAM	86	8027-4016	1	HEADLIGHT LENS, R.H.
37	8027-3071	1	DOOR FOAM	87	8027-4017	1	HEADLIGHT LENS, L.H.
38	8021-3034	1	LEFT REAR DECAL	88	8027-4018	2	TAIL LIGHT LENS
39	8060-3038	1	WARNING DECAL	89	8364-1359	1	GROMMET
40	8021-3082	1	LEFT FRONT DECAL	90	8822-1395	1	HEX SOCKET SET SCREW, (half dog point), 1/2-13X1-1/4
41	7733-3027	1	MADE IN USA DECAL	91	8850-1108	1	HEAVY HEX JAM NUT, 1/2-13
42	8027-3051	1	OUTSIDE BOTTOM RADIATOR FOAM	92	8024-1228	1	LOCK PIN
43	8027-3052	1	OUTSIDE TOP RADIATOR FOAM	93	8366-1197	1	ROD EYE
44	8027-3092	2	TAIL LIGHT	94	8020-1083	1	YOKE
45	8097-3025	4	WHIZ-LOK SCREW, 3/8-16X5/8	95	9002-8974	1	CLEVIS PIN, 3/16X1
46	8027-1268	1	LIGHT BRACKET, L.H.	96	8863-1301	1	COTTER PIN, 1-16X1/2
47	8027-1269	1	LIGHT BRACKET, R.H.	97	8850-1613	1	HEX NUT, 10-32
48	7716-3117	1	GROMMET	*98	8090-3018	1	G.G.P. WARRANTY BOOKLET
49	8026-3012	5	WHIZ-LOK SCREW, 1/4-20X1/2	*99	8090-3019	1	G.G.P. MEDALLION
50	8024-3023	1	HEADLIGHT, R.H.	*100	8024-4033	2	HI-LO BULB

* - Changed part numbers on items 1, 7, 35, 51 & 54; changed quantity on item 29; added items 98 thru 100.

GRADALL[®]
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

CAB & RELATED COMPONENTS
(8020-5008) Tools
Starting Serial No. 0232412
Original Issue 8-99
Revised 1-5-01

Item	Part No.	Qty.	Description Of Part
	8020-5008	1	TOOL KIT, (includes all items)
1	8504-1300	1	GREASE GUN
2	8504-1301	1	HOSE & COUPLING
3	8504-1302	2	GREASE CARTRIDGE
4	8504-1356	1	BOX END WRENCH, (1-7/8")
5	1440-4173	1	CLEAR SILICONE, (one tube)
6	8664-1304	1	OPEN GEAR LUBE
7	8664-1305	1	GEAR LUBE GUN
*8	8022-6035	1	SPANNER TOOL, (boom roller adjustment)
*9	8022-1287	1	GAUGE, (boom roller adjustment)
*10	8345-1128	1	FEMALE QUICK-DISCONNECT COUPLING
*11	8362-3027	1	DUST CAP, (female)

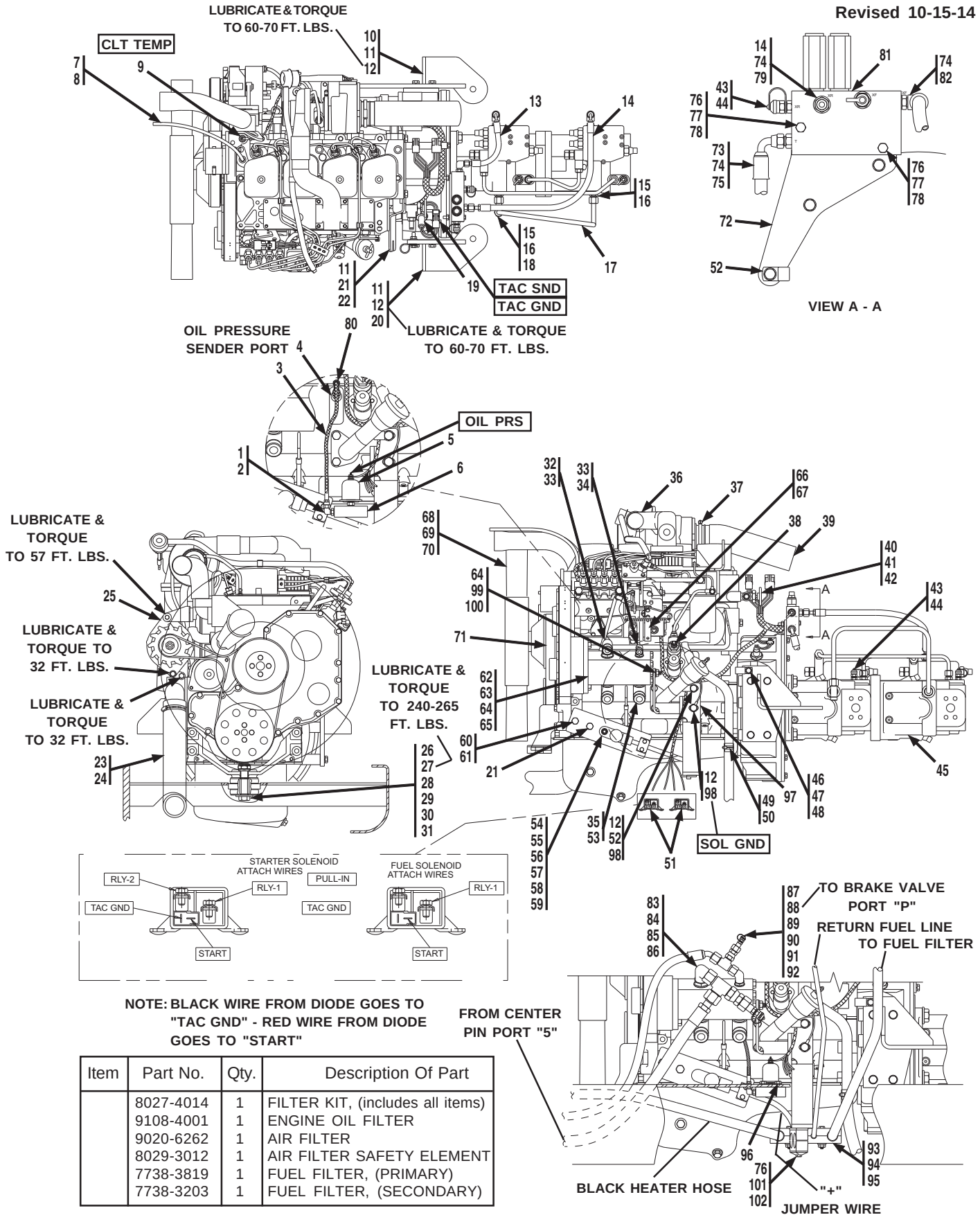
* - Removed items 13 thru 18; changed part numbers on items 8 thru 11.

PCN 000050-TT

UP 3-12

GRADALL™
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

CAB & RELATED COMPONENTS
(8027-5019) Power Unit Assembly
Engine Left Side View
Starting Serial No. 0232412
Original Issue 8-99
Revised 10-15-14



GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

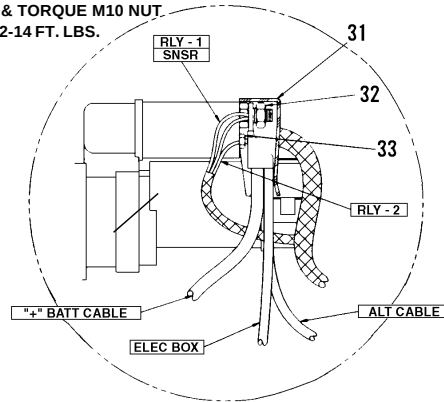
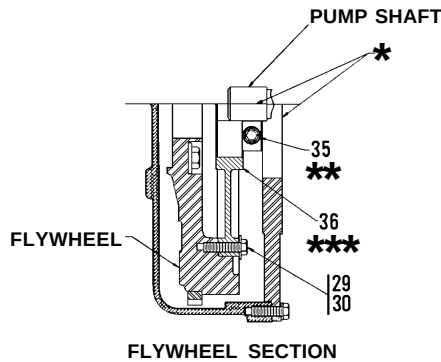
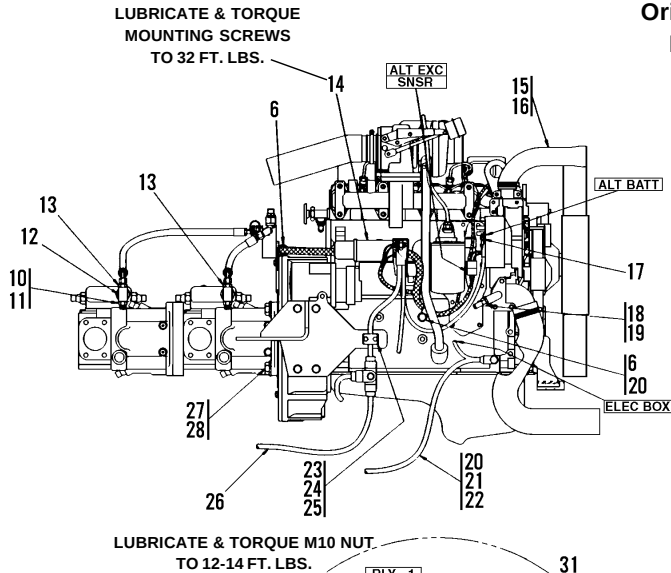
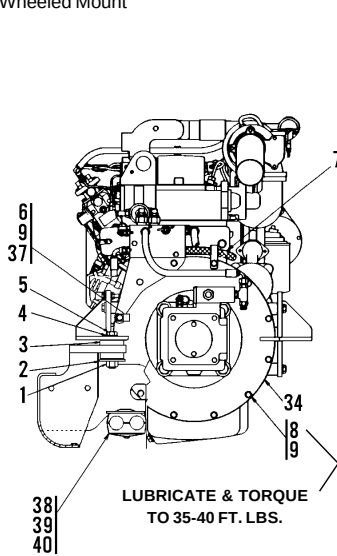
CAB & RELATED COMPONENTS
(8027-5019) Power Unit Assembly
Engine Left Side View
Starting Serial No. 0232412
Original Issue 8-99
Revised 10-15-14

Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
*	8027-5019	1	POWER UNIT ASSY, (includes all items on page UP3-13 except items 26 thru 31, 80, 83 thru 96, 101 & 102 and designated items on page UP3-14)	50		12"	HEATER HOSE, 1"
1	8866-2062	1	ELBOW, 90 DEGREES, (includes item 2)	51	7738-3377	2	SOLENOID RELAY
2	8859-1202	1	O-RING	52	9114-3122	1	SUPPORT CLAMP
3	8471-8130	1	HOSE ASSY	53	8866-2336	2	ELBOW, 90 DEGREES, (includes item 35)
4	8874-3000	1	MALE ELBOW, 45 DEGREES, 1/8X1/4 TUBE	54	8027-1177	1	JUMPER CABLE MOUNT PLATE
5	9103-3246	1	OIL PRESSURE SENDER	55	7713-3497	1	STAUFF CLAMP
6	8097-1270	1	SENDER BLOCK	56	8821-1070	1	SOCKET HD CAPSCREW, 3/8-16X7/8, GR8
7		14"	HOSE, 5/16	57	8027-3039	1	JUMPER CABLE
8	8688-3106	1	HOSE CLAMP	58	7713-3499	2	HEX HD CAPSCREW, 1/4-20X1-5/16
9	7738-3752	1	WATER TEMPERATURE SENDER	59	7713-3498	1	COVER PLATE
10	8027-6027	1	ENGINE MOUNT, R.H.	60	8319-1029	1	HEX HD CAPSCREW, M12-1.75X65, GR8
11	8319-1010	10	LOCKWASHER, M12	61	8378-3028	1	HEX NUT, M12-1.75
12	8319-1032	10	HEX HD CAPSCREW, M12-1.75X35, GR8	62		Ref	GEAR PUMP ASSY, (see page UP4-30 for details)
13	8471-8881	1	HOSE ASSY	63	8319-3021	2	HEX HD CAPSCREW, M10-1.5X30
14	8471-8703	1	HOSE ASSY	64	8319-1013	3	LOCKWASHER, M10
15	8866-2430	2	CONNECTOR, (includes item 16)	65	8667-1112	1	PUMP GASKET
16	8859-1206	2	O-RING	66	8098-1252	1	THROTTLE LEVER
17	8027-3069	1	TUBE ASSY	67	8319-1008	2	HEX HD CAPSCREW, M6-1X10, GR8
18	8866-2355	1	BRANCH TEE	68	8068-3101	1	FAN
19	8097-5004	1	SPEED SENSOR ASSY	69	8319-1039	4	HEX HD CAPSCREW, M8-1.25X80, GR8
20	8027-6047	1	ENGINE MOUNT, L.H.	70	9002-7469	4	HARDENED WASHER, 5/16
21	8319-1004	3	HEX HD CAPSCREW, M12-1.75X30 GR8	*71	9108-4162	1	FAN BELT
22	8027-1255	1	THROTTLE BRACKET	72	8027-1320	1	VALVE MOUNTING PLATE
23	8423-1107	1	HOSE CLAMP	73	8866-2005	1	CONNECTOR, (includes item 74)
24	8027-3026	1	LOWER RADIATOR HOSE	74	8859-1204	3	O-RING
25	8097-3108	1	ALTERNATOR	75	8471-8708	1	HOSE ASSY
26	8027-3053	1	RUBBER MOUNT	76	8820-1026	3	HEX HD CAPSCREW, 5/16-18X2-1/2, GR5
27	8820-1119	1	HEX HD CAPSCREW, 3/4-10X4, (loctite & torque to 240-265 ft. lbs.)	77	8855-1010	2	LOCKWASHER, 5/16
28	8027-1140	1	SPACER	78	8850-1005	2	HEX NUT, 5/16-18
29	8027-1141	1	SPECIAL WASHER	79	8866-2471	1	CONNECTOR, (includes item 74)
30	8856-1009	1	FLAT WASHER, 3/4-10	80	8866-2117	1	ELBOW, 45 DEGREES, (swivel nut)
31	8852-1312	1	HEX LOCKNUT, 3/4-10	81		Ref	PUMP VALVE ASSY, (see page UP4-9 for details)
32	8866-2335	1	ELBOW, 90 DEGREES, (includes item 33)	82	8866-2489	1	ELBOW, 90 DEGREES, (includes item 74)
33	8859-1206	2	O-RING	83	8023-3204	1	MINI-CHECK COUPLING, (includes item 84)
34	8866-2435	1	ELBOW, 90 DEGREES, (includes item 33)	84		1	VITON O-RING, (lubricate lightly)
35	8859-1207	2	O-RING	85	8866-2472	1	SWIVEL NUT RUN TEE
36	8027-3091	1	CUMMINS ENGINE	86	8866-2494	1	CONNECTOR
37		Ref	MUFFLER CLAMP, (furnished with engine)	87	8471-9152	1	HOSE ASSY
38	8866-1108	1	MALE ELBOW, 90 DEGREES, 1/4X3/8 TUBE	88	8866-2438	1	SWIVEL NUT RUN TEE
39	8027-6046	1	EXHAUST FLANGE WELDMENT	89	8023-3203	1	MINI-CHECK COUPLING, (includes item 90)
40	8698-3833	1	STREET ELBOW, 90 DEGREES, 1/2	90		1	O-RING, (lubricate lightly)
41	9108-3155	1	HEATER VALVE	91	8866-2493	1	CONNECTOR, (includes item 92)
42	7738-3540	1	COOLANT RESTRICTOR	92		1	O-RING
43	7713-3089	4	MINI-CHECK COUPLING, (includes item 44)	93	8027-3080	1	CLAMP
44	8376-3056	4	VITON O-RING, (lubricate lightly)	94	8820-1040	2	HEX HD CAPSCREW, 3/8-16X2-1/4, GR5
45		Ref	MAIN HYDRAULIC TANDEM PUMP ASSY, (see page UP4-1 & UP4-2 for details)	95	7714-3015	2	WHIZ-LOK NUT, 3/8-16
46	8503-1405	1	SUPPORT CLAMP	96	8097-3025	2	WHIZ-LOK SCREW, 3/8-16X1
47	8097-3096	1	WHIZ-LOK SCREW, 3/8-16X1-1/2	97	8027-6063	1	PUMP SUPPORT BRACKET
48	7714-3015	1	WHIZ-LOK NUT, 3/8-16	98	1238-1025	2	HARDENED WASHER, 1/2
49	8697-1172	1	HOSE CLAMP	99	8023-3220	1	HARDENED WASHER, M10
				100	8319-1015	1	HEX NUT, M10X1.5
				101	7713-3307	2	TWIN CLAMP SET, 1-1/2
				102	7713-3281	2	COVER PLATE

* - Added part number to item 71.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

CAB & RELATED COMPONENTS
(8027-5019) Power Unit Assembly
Engine Right Side View
Starting Serial No. 0232412
Original Issue 8-99
Revised 8-17-01



* USE P/N 1440-3391 MOLYBDENUM LUBE TO GREASE PUMP SPLINES & PUMP PILOT DIAMETER PRIOR TO ASSEMBLY

** NOTE ORIENTATION OF HUB ON PUMP SHAFT. BOLT IN HUB SHOULD BE ORIENTED ON PUMP SIDE. LOCATE HUB TO 7/16 DIM.-TORQUE TO 100 FT. LBS.

*** NOTE ORIENTATION OF FLANGE ON FLYWHEEL. FLAT SIDE GOES TOWARD ENGINE FLYWHEEL, AND SIDE WITH RAISED CENTER SECTION GOES TOWARD PUMP.

Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8027-5019	1	POWER UNIT ASSY, (includes all items on pages UP3-13 & UP3-14 except items 1 thru 5, 37 & 50 thru 53 on page UP3-14)	19	8471-2742	1	HOSE NIPPLE
1	8852-1210	2	HEX LOCKNUT, 5/8-11	20	8319-1004	2	HEX HD CAPSCREW, M12-1.75X30
2	9120-3138	2	REBOUND WASHER	21	8027-3024	1	NEGATIVE BATTERY CABLE
3	9120-3137	2	RUBBER MOUNT	22	8319-1010	1	LOCKWASHER, M12
4	9002-7472	2	HARDENED WASHER, 5/8	23	7713-3497	1	CLAMP SET
5	8664-1057	2	HEX HD CAPSCREW, 5/8-11X4-1/2, GR8, (loctite & torque to 200-215 ft. lbs.)	24	7713-3498	1	COVER PLATE
6	9114-3122	3	SUPPORT CLAMP	25	7713-3499	2	HEX HD CAPSCREW, 1/4-20X1-5/16
7	8026-3073	1	ENGINE HARNESS	26	8027-3041	1	POSITIVE BATTERY CABLE
8	8319-1021	9	HEX HD CAPSCREW, M10-1.50X30, GR8	27	8820-1110	4	HEX HD CAPSCREW, 3/4-10X1-3/4, GR5
9	8319-1013	12	LOCKWASHER, M10	28	9002-7473	4	HARDENED WASHER, 3/4
10	8866-2301	2	CONNECTOR, (includes item 11)	29	8820-1037	8	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5
11	8859-1204	4	O-RING	30	8856-1004	8	FLAT WASHER, 3/4
12	8027-3034	2	SPECIAL BRANCH TEE	31	8096-3071	1	POST TERMINAL BOOT
13	8866-2471	2	CONNECTOR, (includes item 11)	32	9103-3134	1	HEX NUT, M10-1.5
14	7738-4506	1	STARTER	33	9103-3133	1	HEX NUT, M5-8.8
15	8027-3040	1	UPPER RADIATOR HOSE	34	8027-4009	1	PUMP & ENGINE ADAPTER
16	8507-1128	1	HOSE CLAMP	35	8027-4007	1	DRIVE HUB
17	8319-1019	1	HEX NUT, M6X1	36	8027-4008	1	DRIVE FLANGE
*18	8698-3833	1	BRASS ELBOW, 90 DEGREES	*37	8319-1027	3	HEX HD CAPSCREW, M10-1.5X35
				*38	7713-3307	1	TWIN CLAMP SET
				*39	7713-3281	1	COVER PLATE
				*40	8820-1026	1	HEX HD CAPSCREW, 5/16-18X2-1/2, GR5

* - Removed items 41 thru 53; changed part numbers on items 18 & 37 thru 40.

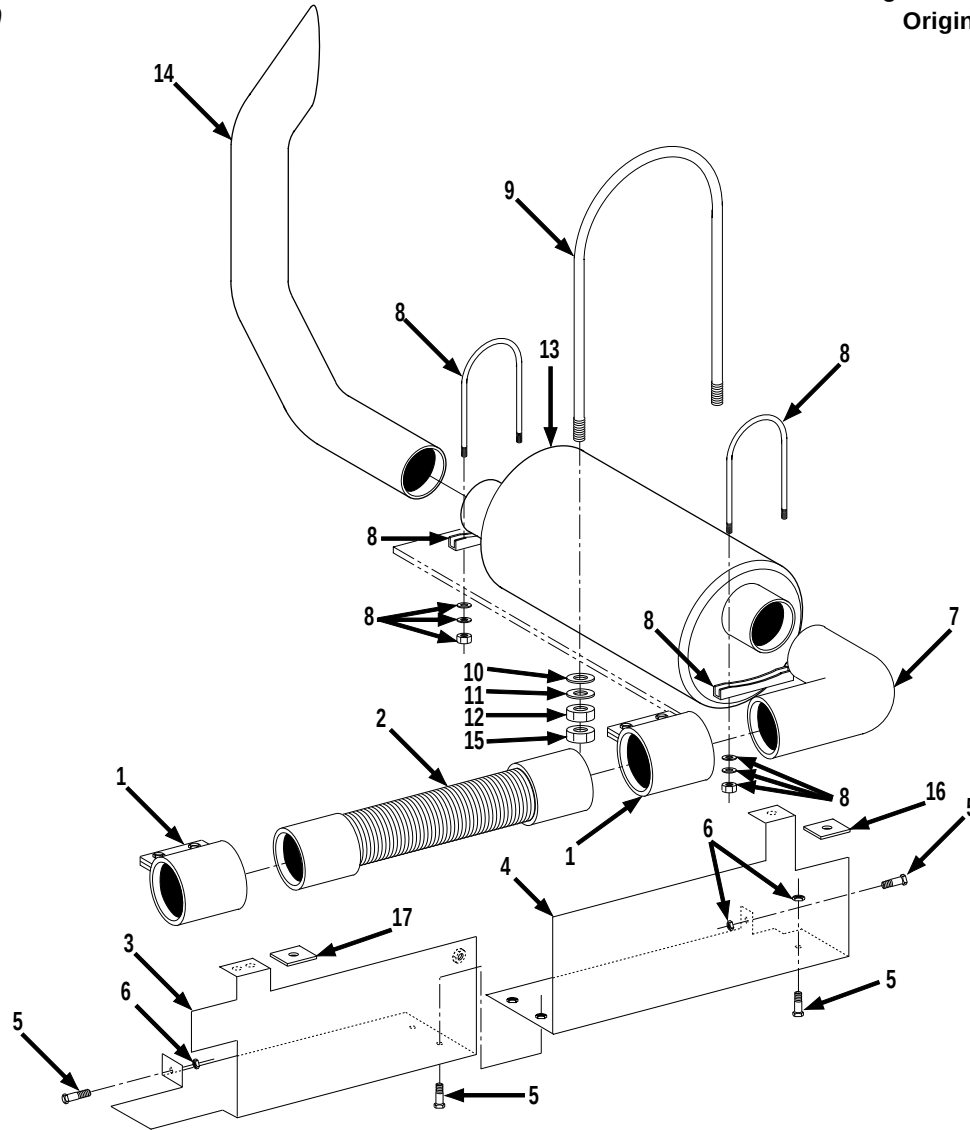
GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

CAB & RELATED COMPONENTS

Exhaust System

Starting Serial No. 0232412

Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
1	8688-1375	2	SEALCLAMP
2	8688-1373	1	FLEXIBLE TUBE
*3	8027-1183	1	FRONT EXHAUST COVER
4	8027-1184	1	REAR EXHAUST COVER
5	8097-3025	5	WHIZ-LOK SCREW, 3/8-16X1, (lubricate & torque to 30-35 ft. lbs.)
6	7714-3015	2	WHIZ-LOK NUT, 3/8-16
7	8371-3012	1	MUFFLER EXHAUST
8	2492-1332	2	MUFLER CLAMP & HARDWARE
9	8027-3032	1	U-BOLT
10	8856-1004	2	FLAT WASHER, 3/8
11	8855-1011	2	LOCKWASHER, 3/8
12	8850-1006	2	HEX NUT, 3/8-16
13	9116-3035	1	MUFFLER
14	8027-3028	1	EXHAUST STACK
15	8850-1006	2	HEX JAM NUT, 3/8-16
16	8027-1175	1	BLOCK
17	8027-1174	1	BLOCK

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL 2300
Wheeled Mount

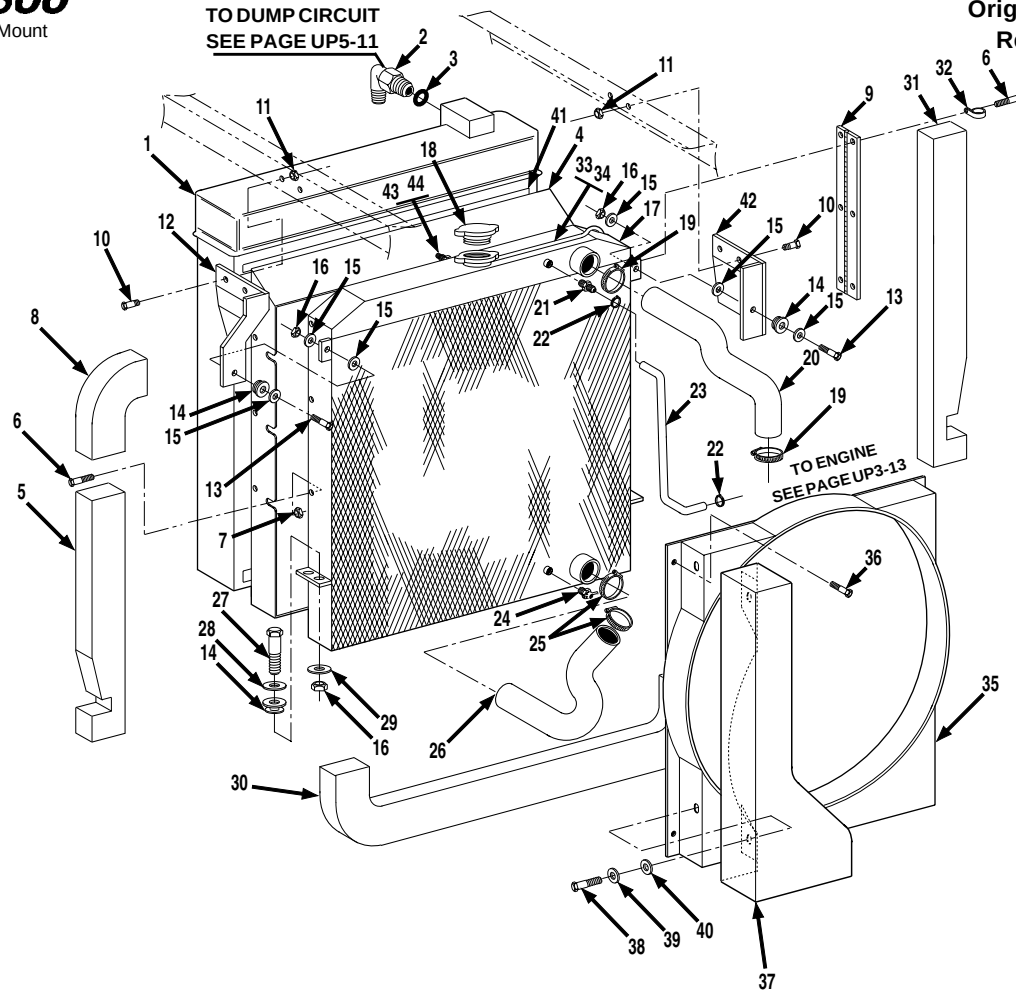
CAB & RELATED COMPONENTS

Oil Cooler, Radiator & Hoses

Starting Serial No. 0232412

Original Issue 8-99

Revised 8-17-01



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Par
1	8027-3021	1	OIL COOLER	25	8423-1107	2	HOSE CLAMP
*2	8866-2334	2	ELBOW, 90 DEGREES, (includes item 3)	26	8027-3026	1	LOWER RADIATOR HOSE
3	8859-1210	2	O-RING	27	8820-1038	4	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5
4	8027-6023	1	OIL COOLER SHROUD	28	8856-1109	4	FLAT WASHER, 3/8
5	8027-3051	1	L.H. BOTTOM RADIATOR FOAM	29	8856-1004	4	FLAT WASHER, 3/8
6	8097-3025	12	WHIZ-LOK SCREW, 3/8-16X1	30	8027-3050	1	BOTTOM RADIATOR FOAM
7	7714-3015	3	WHIZ-LOK NUT, 3/8-16	31	8027-3049	1	R.H. RADIATOR FOAM
8	8027-3052	1	L.H. TOP RADIATOR FOAM	32	8594-1016	2	SUPPORT CLAMP
9	8027-1037	1	OIL COOLER HINGE	33		4ft.	HOSE
10	7714-3004	4	WHIZ-LOK SCREW, 5/16-18X1-1/4	34	8348-3497	1	HOSE CLAMP
11	7714-3006	4	WHIZ-LOK NUT, 5/16-18	35	8027-6055	1	FAN SHROUD
12	8027-6020	1	RADIATOR MOUNT, L.H.	36	7714-3003	7	WHIZ-LOK SCREW, 5/16-18X5/8
13	8820-1038	2	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5	37	8027-6060	1	FAN GUARD
14	8368-3308	6	MOUNTING PAD	38	8820-1002	2	HEX HD CAPSCREW, 1/4-20X5/8, GR5
15	8856-1004	6	FLAT WASHER, 3/8	39	8855-1009	2	LOCKWASHER, 1/4
16	8852-1206	6	HEX NUT, 3/8-16	40	8856-1107	2	FLAT WASHER, 1/4
*17	8027-3099	1	RADIATOR, (includes item 18)	41	9020-0755	AR	GASKATAPE
18	8027-4001	1	RADIATOR CAP, (7 psi)	42	8027-6019	1	RADIATOR MOUNT, R.H.
19	8507-1128	2	HOSE CLAMP	43	8871-1380	1	REDUCING BUSHING, 1/4X1/8
20	8027-3040	1	UPPER RADIATOR HOSE	44	8097-3018	1	COOLANT LEVEL SENDER
21	9002-8674	1	PUSH-LOK FITTING				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.
22	8688-3106	2	HOSE CLAMP				
23		14"	HOSE, 5/16				
24	8452-1056	1	DRAIN COCK				

* - Changed part numbers on items 2 & 17; revised illustration.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

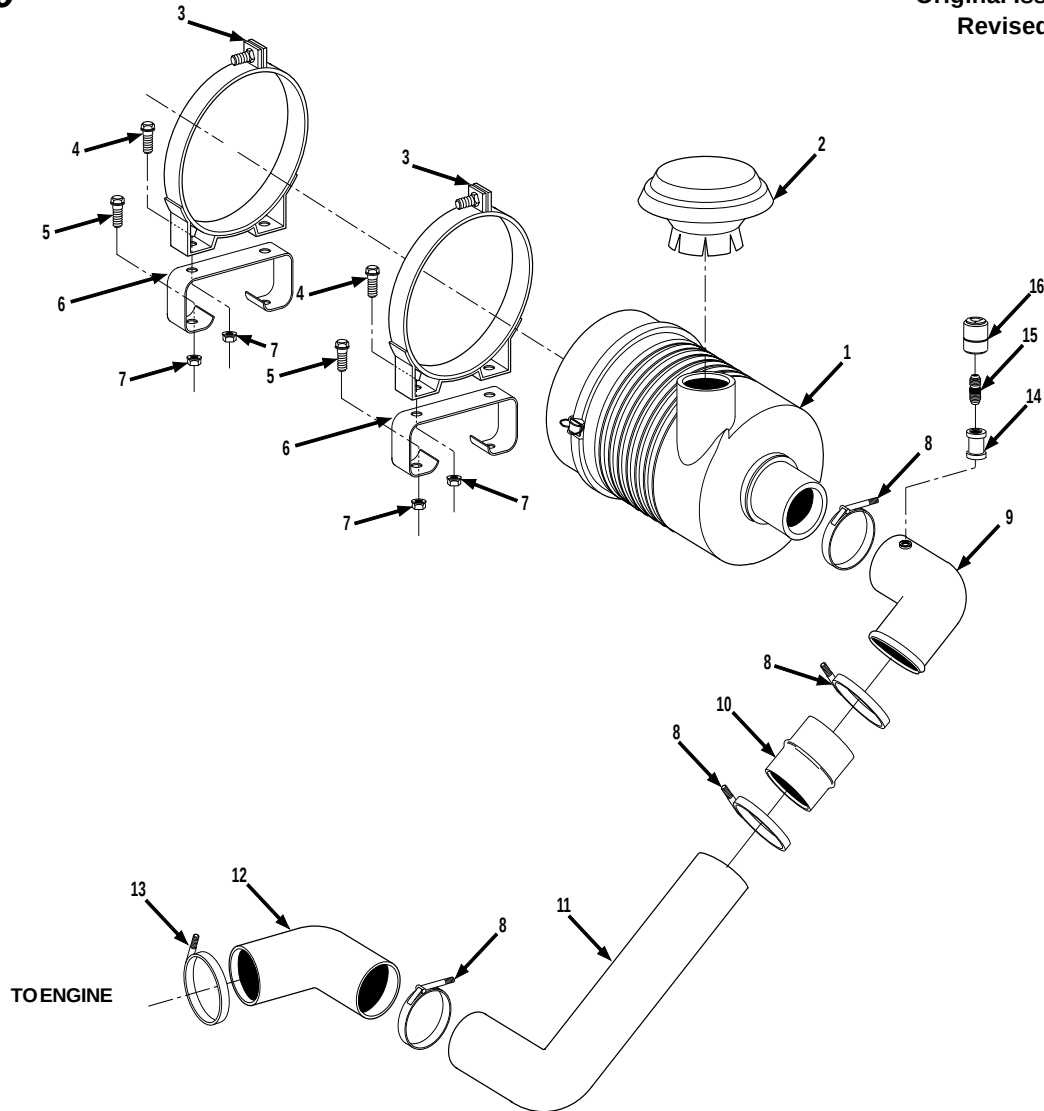
CAB & RELATED COMPONENTS

Air Cleaner & Installation

Starting Serial No. 0232412

Original Issue 8-99

Revised 4-3-02

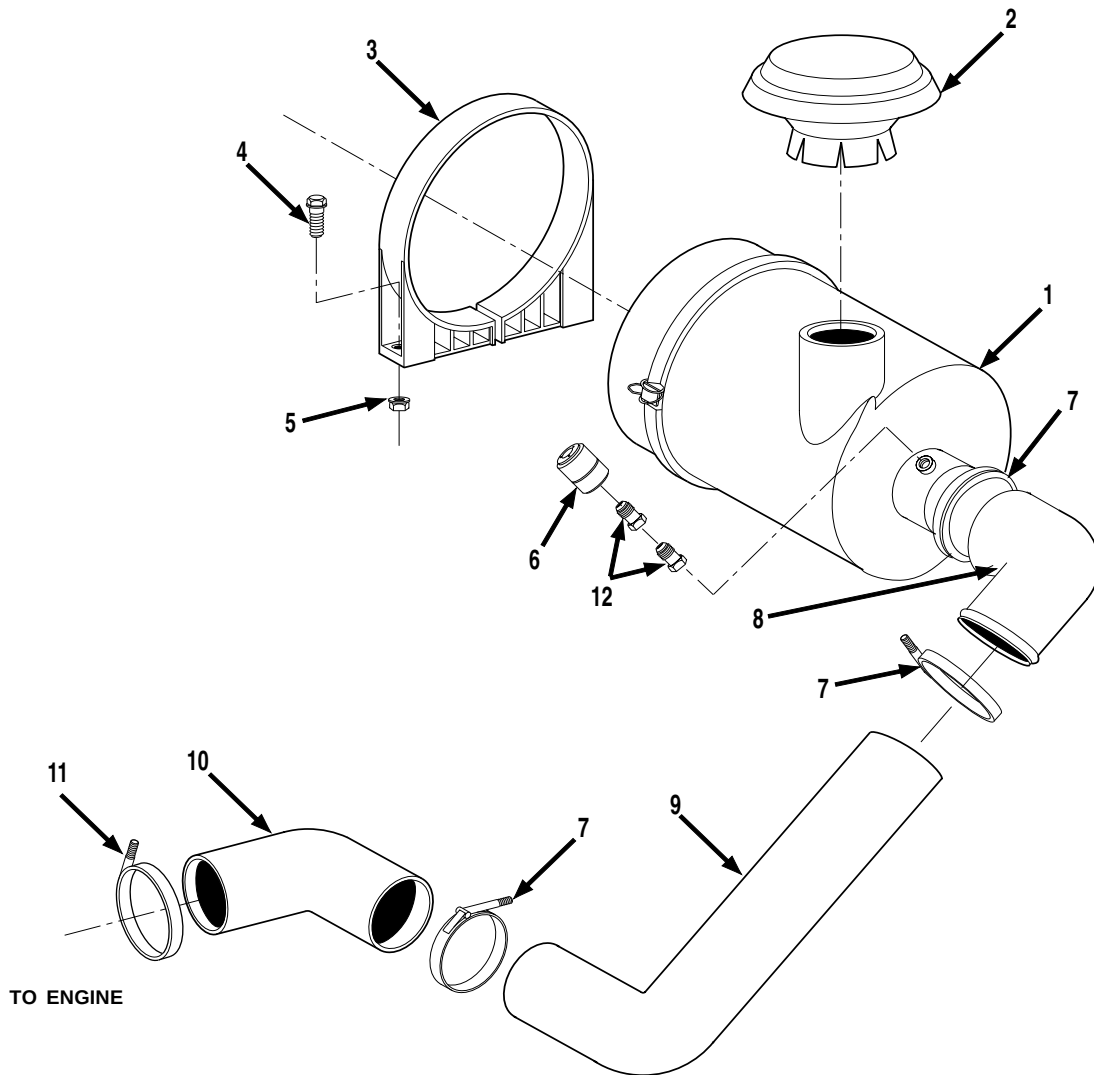


Item	Part No.	Qty.	Description Of Part
1		Ref	AIR CLEANER ASSY, (see page UP3-18 for details)
*2	9147-3100	1	INLET CAP
3	7710-3138	2	AIR CLEANER BRACKET
4	7714-3003	4	WHIZ-LOK SCREW, 5/16-18X5/8
5	7714-3004	4	WHIZ-LOK SCREW, 5/16-18X1-1/4
6	8027-1251	2	SPACER
7	7714-3006	8	WHIZ-LOK NUT, 5/16-18
8	9116-3137	4	HEAVY DUTY BAND CLAMP
9	8029-3007	1	AIR INTAKE ELBOW
10	9129-3003	1	AIR INTAKE FITTING
11	8027-3095	1	AIR INTAKE TUBE
12	9108-3129	1	AIR INTAKE ELBOW
13	9116-3129	1	HEAVY DUTY BAND CLAMP
14	8871-1210	1	PIPE COUPLING, 1/8
15	8870-1023	1	PIPE NIPPLE, 1/8X3
16	7738-3154	1	SERVICE INDICATOR KIT

* - Changed part number on item 2.

PCN020026-LK

UP 3-17

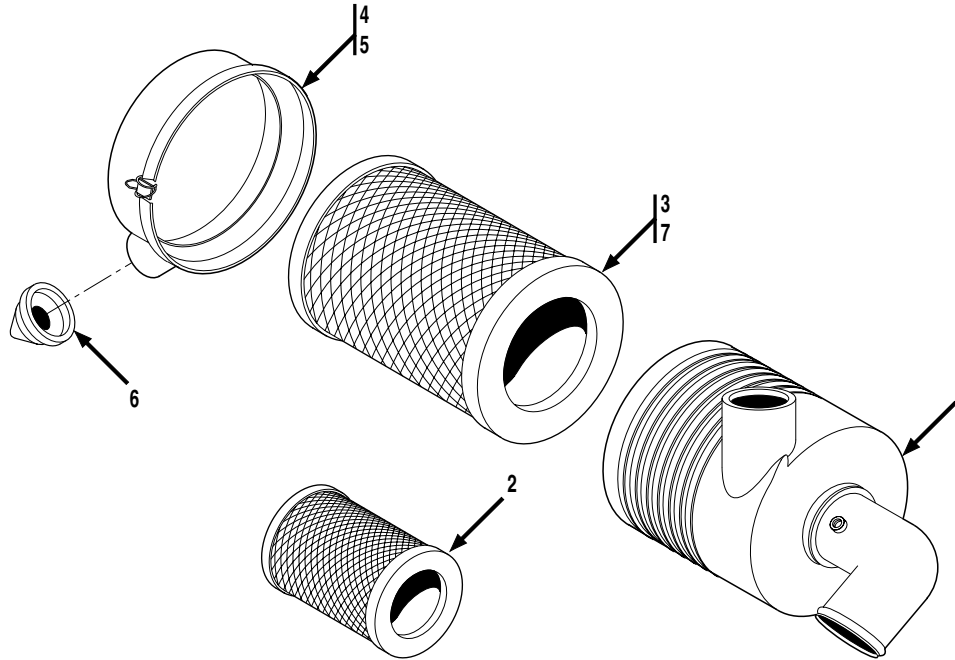


Item	Part No.	Qty.	Description Of Part
1		Ref	AIR CLEANER ASSY, (see page UP3-18 for details)
*2	9147-3100	1	INLET CAP
3	7710-3138	2	AIR CLEANER MOUNT BRACKET
*4	7714-3003	4	WHIZ-LOK SCREW, 5/16-18X5/8
5	7714-3006	4	WHIZ-LOK NUT, 5/16-18
6	7738-3154	1	SERVICE INDICATOR
7	9116-3137	3	HEAVY DUTY BAND CLAMP
8	8029-3007	1	AIR INTAKE FITTING
9	8027-3095	1	AIR INTAKE TUBE
10	9108-3129	1	AIR INTAKE ELBOW
11	9116-3129	1	HEAVY DUTY BAND CLAMP
12	8869-1302	2	CONNECTOR, (brass)

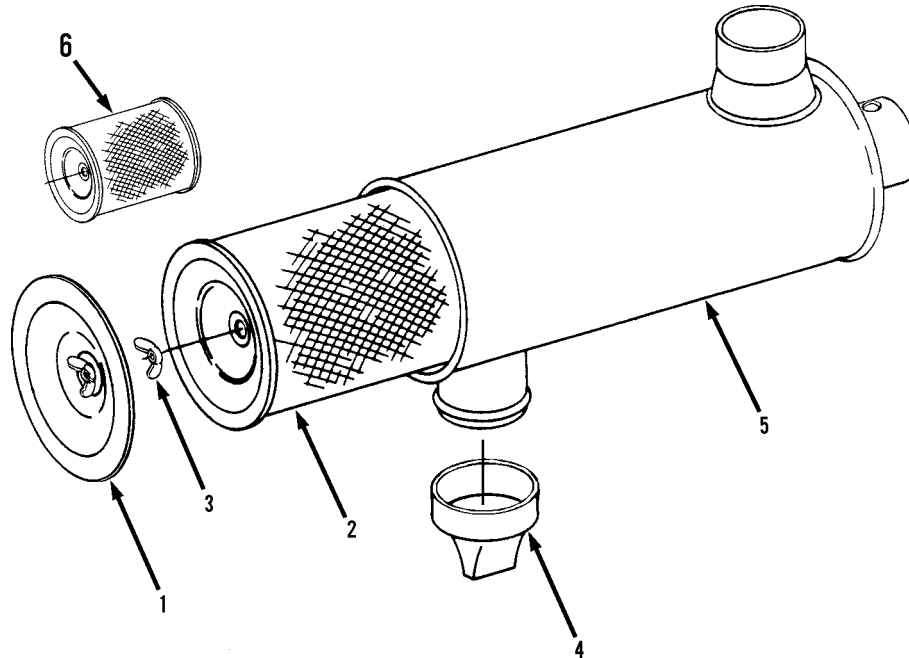
* - Changed part number on item 2; changed description on item 4.
PCN020026-LK

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

CAB & RELATED COMPONENTS
(8027-5027) Air Cleaner Assembly
Starting Serial No. 0232412
Original Issue 8-99
Revised 4-3-02



Item	Part No.	Qty.	Description Of Part
	8027-5027	1	AIR CLEANER ASSY, (includes all items)
1	8027-4012	1	AIR CLEANER BODY
2	8029-3012	1	SAFETY FILTER ELEMENT
3	9020-6262	1	FILTER ELEMENT
4	8027-4004	1	COVER ASSY, (includes item 5)
5	8027-4005	3	LATCH
6	8027-4013	1	VACUATOR VALVE
7	9020-1414	1	NUT ASSY



NOTE: WHEN ORDERING AN AIR CLEANER, BE SURE TO ASCERTAIN WHETHER YOUR MODEL REQUIRES A SAFETY ELEMENT, AND ORDER APPROPRIATE NUMBER LISTED BELOW.

Item	Part No.	Qty.	Description Of Part-
	9020-5663	1	AIR CLEANER ASSY, (includes items 1 thru 5)
	8027-5027	1	AIR CLEANER ASSY W/SAFETY ELEMENT, (includes all items and an additional quantity of one of item 3)
1	9020-6606	1	COVER W/NUT
2	9020-6262	1	ELEMENT
3	9020-1414	1	WING NUT W/SEAL
4	9020-0807	1	VACUATOR
5		1	BODY
6	8029-3012	1	SAFETY ELEMENT
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

CAB & RELATED COMPONENTS

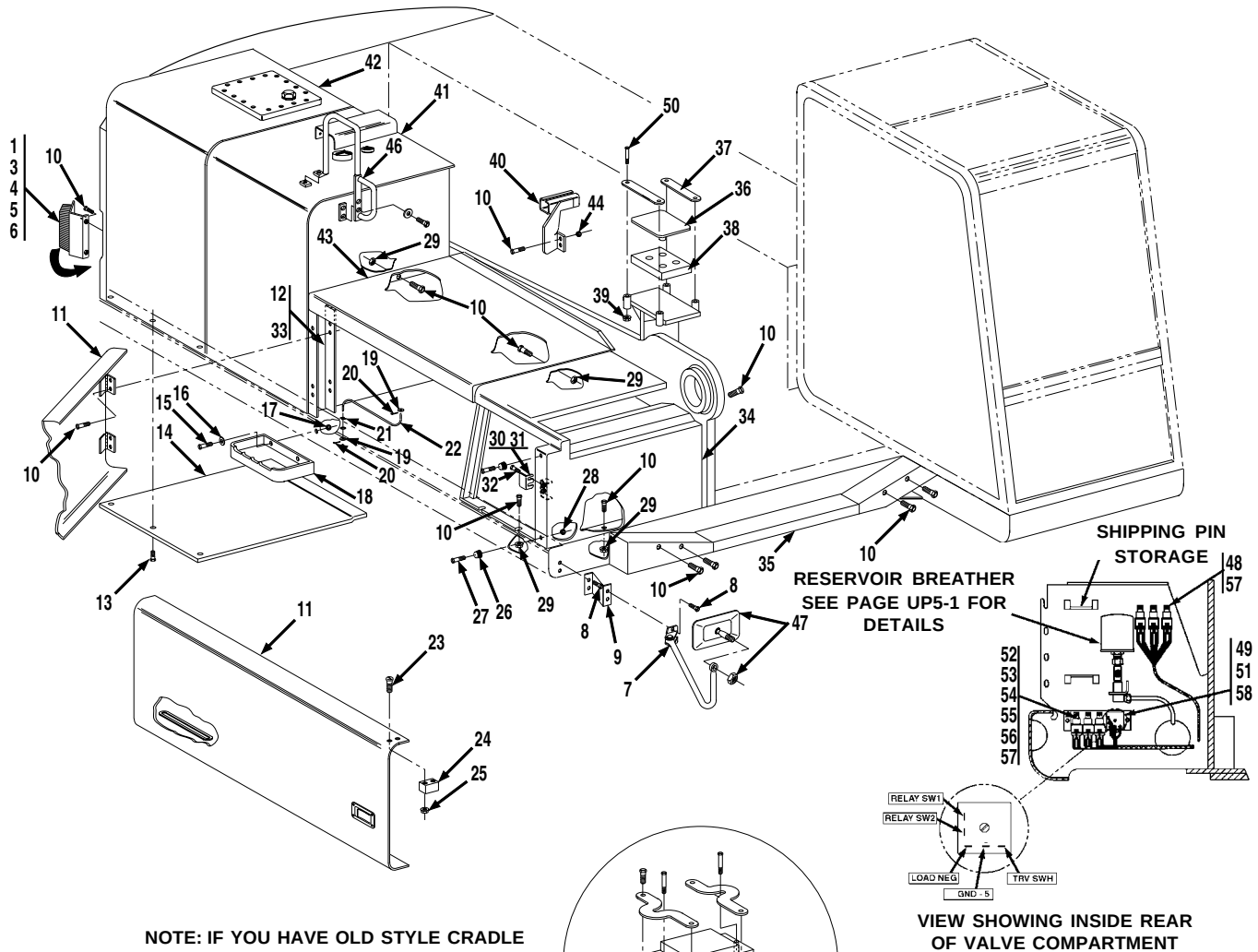
Rotating Platform

Right Side View

Starting Serial No. 0232412

Original Issue 8-99

Revised 1-11-02



GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

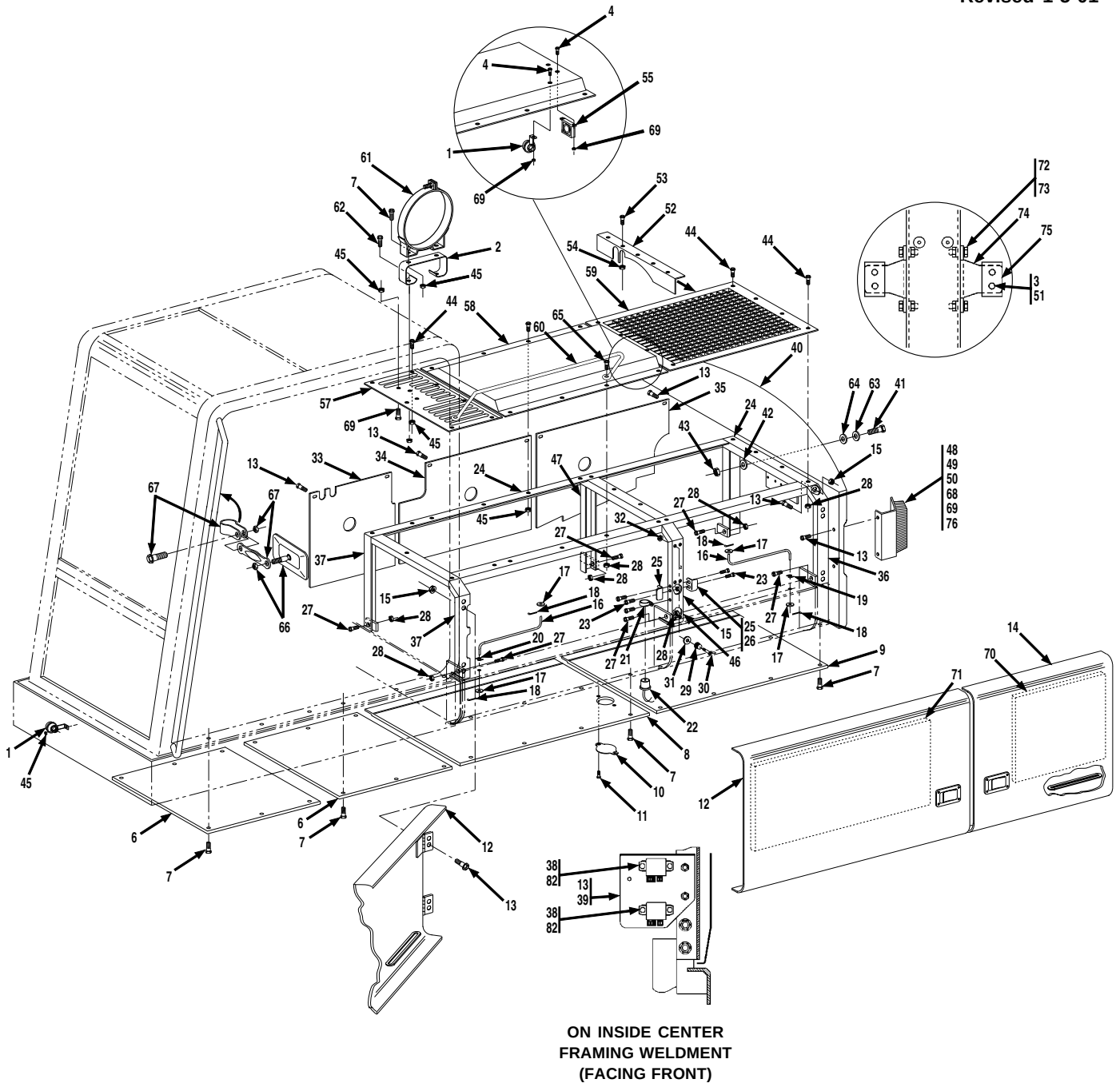
CAB & RELATED COMPONENTS
Rotating Platform
Right Side View
Starting Serial No. 0232412
Original Issue 8-99
Revised 1-11-02

Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8027-3092	1	TAIL LIGHT, R.H.	*32	8097-3096	2	WHIZ-LOK SCREW, 3/8-16X1-1/2
*2	8024-1247	1	TEMPLATE, (not shown)	33	8027-1209	1	ADJUSTER BAR
3	8027-1269	1	TAIL LIGHT BRACKET, R.H.	34	8027-6052	1	FRONT VALVE COVER
4	8097-3025	2	WHIZ-LOK SCREW, 3/8-16X5/8	35	8027-1282	1	HOSE CHANNEL CAP
5	8027-1126	1	SWING LIGHT MOUNT PLATE, R.H.	36	8024-6038	1	SHOCK PLATE WELDMENT
6	7714-3006	2	WHIZ-LOK NUT, 5/16-18	37	8024-1242	2	RETAINER
7	8026-3051	1	MIRROR MOUNT	*38	8024-3031	1	CRADLE STOP, (starting serial number 0233421)
*8	8097-3025	6	WHIZ-LOK SCREW, 3/8-16X1	39	8852-1307	4	HEX LOCKNUT, 7/16-14
*9	8024-1222	1	MIRROR BRACKET	40	8027-6028	1	DUMP TUBE BRACKET WELDMENT
*10	8097-3025	27	WHIZ-LOK SCREW, 3/8-16X5/8	41		Ref	FUEL TANK ASSY, (see page UP3-10 for details)
11	8027-6031	1	VALVE DOOR WELDMENT	42		Ref	HYDRAULIC RESERVOIR ASSY, (see page UP5-1 for details)
12	8027-1092	1	TAPPED BAR	43	8027-1283	1	VALVE COVER
13	7714-3003	3	WHIZ-LOK SCREW, 5/16-18X5/8	44	7714-3015	2	WHIZ-LOK NUT, 3/8-16
14	8027-1097	1	BOTTOM PLATE, R.H.	*45	8024-1248	4	SPACER, (not shown)
15	8820-1067	2	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	46	8027-3063	Ref	GRAB RAIL, (see page UP3-10 for details)
16	8855-1013	2	LOCKWASHER, 1/2	47	8026-3053	1	MIRROR
17	8850-1008	2	HEX NUT, 1/2-13	48	8830-1095	3	ROUND HD MACHINE SCREW, #10-24X1
18	8021-6008	1	STEP WELDMENT	49	8026-3041	1	TIME DELAY RELAY
19	8856-1003	4	FLAT WASHER, 5/16	50	8820-1055	4	HEX HD CAPSCREW, 7/16-14X2-1/4, GR5
20	8863-1309	2	COTTER PIN, 3/32X3/4	51	8852-1604	1	HEX LOCKNUT, #8-32
21	8027-3047	1	TORSION SPRING, R.H.	52	8850-1612	3	HEX NUT, #10-24
22	8027-3070	1	Z-BAR	53	8026-3097	1	UPPER HARNESS
*23	8826-1017	2	SOCKET BUTTON HD CAPSCREW, 1/4-20X7/8	54	8027-1321	1	RELAY BRACKET
24	8027-3061	1	DOOR SUPPORT	55	8830-1092	3	ROUND HD MACHINE SCREW, #10-24X5/8
*25	8852-1304	2	HEX-LOK NUT, 1/4-20	56	7714-3016	2	WHIZ-LOK SCREW, #10-24X3/4
26	8521-1088	2	RUBBER BUMPER	57	8855-1007	6	LOCKWASHER, #10
27	8830-1095	2	ROUND HD MACHINE SCREW, #10-24X1	58	8830-1077	1	ROUND HD MACHINE SCREW, #8-32X1-1/4
28	8852-1605	2	HEX LOCKNUT, #10-24				
*29	7714-3015	13	WHIZ-LOK NUT, 3/8-16				
30	8027-1165	1	LATCH PLATE				
31	8027-1167	AR	LATCH SHIM, (.060 thick)				
	8027-1143	AR	LATCH SHIM, (.075 thick)				
	8027-1142	AR	LATCH SHIM, (.106 thick)				
	8027-1144	AR	LATCH SHIM, (.132 thick)				

* - Revised illustration; changed items 2, 9, 32 & 45; changed quantity on items 8, 10, 23, 25 & 29; added note to item 38.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

CAB & RELATED COMPONENTS
Rotating Platform
Left Side View
Starting Serial No. 0232412
Original Issue 8-99
Revised 1-5-01



CAB & RELATED COMPONENTS**Rotating Platform****Left Side View**

Starting Serial No. 0232412

Original Issue 8-99

Revised 1-5-01

Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	9114-3357	2	HORN	36	8027-6044	1	REAR FRAMING WELDMENT
2	8027-1251	2	SPACER	37	8027-6005	1	FRONT FRAMING WELDMENT
3	8097-3025	4	WHIZ-LOK SCREW, 3/8-16X1	38	7738-3377	2	RELAY
4	8820-1020	3	HEX HD CAPSCREW, 5/16-18X1, GR5	39	8027-1304	1	RELAY BRACKET
5	7714-3006	3	WHIZ-LOK NUT, 5/16-18	40	8024-0001	1	COUNTERWEIGHT
6	8027-1225	2	CAB BOTTOM PLATE	41	8320-1163	4	HEX HD CAPSCREW, 1-8X10, GR5, (lubricate & torque to 545-595 ft. lbs.)
7	7714-3003	18	WHIZ-LOK SCREW, 5/16-18X5/8	42	8024-1137	4	FLAT WASHER, 1"
8	8027-1305	1	FRONT BOTTOM PLATE, L.H.	43	8852-1216	4	HEX LOCKNUT, 1-8
9	8027-1072	1	REAR BOTTOM PLATE, R.H.	44	7714-3004	3	WHIZ-LOK SCREW, 5/16-18X1-1/4
10	8097-1049	1	ACCESS PLATE	45	7714-3006	9	WHIZ-LOK NUT, 5/16-18
11	8820-1031	2	HEX HD CAPSCREW, 3/8-16X1/2, GR5	46	8027-6015	1	CENTER FRAMING WELDMENT
12	8027-6006	1	ENGINE DOOR WELDMENT	47	8027-1079	1	FRAMING ANGLE
13	8097-3025	8	WHIZ-LOK SCREW, 3/8-16	48	8027-3092	1	TAIL LIGHT, L.H.
14	8027-6008	1	PUMP DOOR WELDMENT	49	8097-3025	2	WHIZ-LOK SCREW, 3/8-16X5/8
15	7714-3015	18	WHIZ-LOK NUT, 3/8-16	50	8027-1268	1	LIGHT BRACKET, L.H.
16	8027-3070	2	Z-BAR	51	7714-3015	4	WHIZ-LOK NUT, 3/8-16
17	8856-1003	4	FLAT WASHER, 5/16	52	8027-3048	1	AIR FLAP
18	8863-1309	4	COTTER PIN, 3/32X3/4	53	8026-3012	5	WHIZ-LOK SCREW, 1/4-20X1/2
19	8027-3046	1	TORSION SPRING, L.H.	54	7714-3013	5	WHIZ-LOK NUT, 3/8-16
20	8027-3047	1	TORSION SPRING, R.H.	55	9120-3420	1	BACK-UP ALARM
21	8584-1150	1	SUPPORT CLAMP	56	8368-1905	1.5"	SHRINK WRAP, 1/2 I.D.
22	9103-3246	1	OIL PRESSURE SENDER	57	8027-1166	1	FRONT VENT PLATE
23	8097-3096	4	WHIZ-LOK SCREW, 3/8-16X1-1/2	58	8027-6032	1	HOOD WELDMENT
24	8027-6048	1	COVER FRAMING WELDMENT	59	8027-6043	1	REAR COVER WELDMENT
25	8027-1165	2	LATCH PLATE	60	8027-6079	1	GRAB RAIL
26	8027-1167	AR	LATCH SHIM, (.060 thick)	61	8027-3011	2	AIR CLEANER BRACKET
	8027-1143	AR	LATCH SHIM, (.075 thick)	62	7714-3004	2	WHIZ-LOK SCREW, 5/16-18X1-1/4
	8027-1142	AR	LATCH SHIM, (.106 thick)	63	8852-1216	4	HEX LOCKNUT, 1-8
	8027-1144	AR	LATCH SHIM, (.132 thick)	64	8024-1137	4	SPECIAL WASHER
27	8820-1066	6	HEX HD CAPSCREW, 1/2-13X1-1/4, GR5, (lubricate & torque to 68-78 ft. lbs.)	65	8820-1067	2	HEX HD CAPSCREW, 1-2-13X1-1/2, GR5
28	7714-3014	8	WHIZ-LOK NUT, 1/2-13	66	8026-3054	1	MIRROR
29	8521-1088	4	RUBBER BUMPER	67	8026-3052	1	MIRROR MOUNT
30	8830-1095	4	ROUND HD MACHINE SCREW, #1-24X1	68	8027-1125	1	TAIL LIGHT MOUNT PLATE, L.H.
31	8027-1168	4	SPECIAL WASHER	69	7714-3006	7	WHIZ-LOK NUT, 5/16-18
32	8852-1605	4	HEX LOCKNUT, #10-24	70	8027-3071	1	DOOR FOAM
33	8027-1047	1	FRONT INSIDE COVER	71	8027-3072	1	DOOR FOAM
34	8027-1046	1	MIDDLE INSIDE COVER	72	8826-1018	4	BUTTON HD CAPSCREW, 1/4-20X1
35	8027-1057	1	REAR INSIDE COVER	73	8852-1304	4	HEX LOCKNUT, 1/4-20
				74	8027-1178	2	SUPPORT
				75	8027-3062	2	SUPPORT BLOCK
				*76	8027-4018	2	TAIL LIGHT LENS

* - Added item 76.

TT

UP 3-20

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

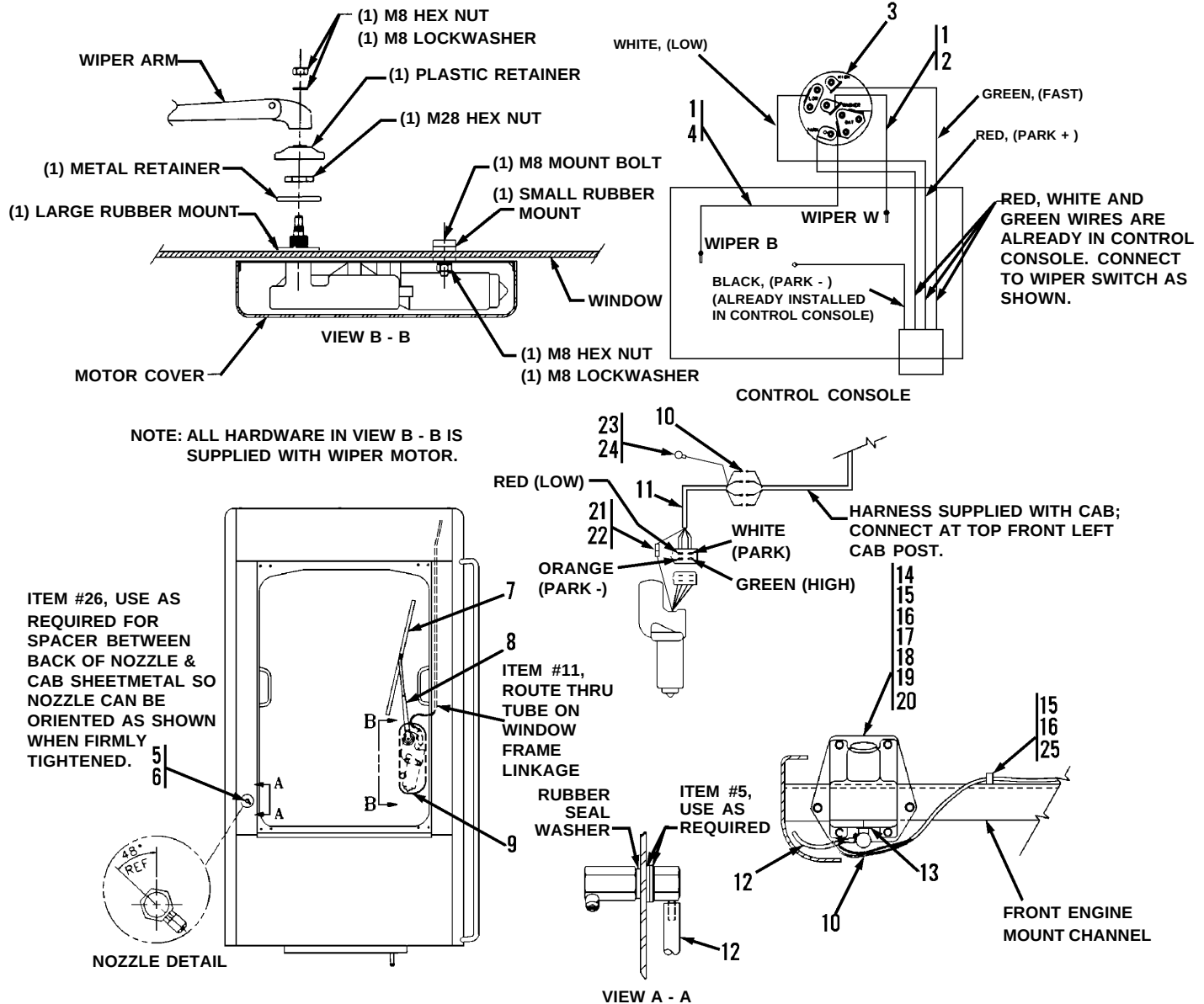
CAB & RELATED COMPONENTS

Wiper & Washer Installation

Starting Serial No. 0232412

Original Issue 8-99

Revised 8-17-01



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	7716-3102	4	FEMALE SPADE	14	8026-1009	1	BOTTLE MOUNT
2		8"	RED WIRE, (16 GA.)	15	7714-3004	4	WHIZ-LOK SCREW, 5/16-18X1-1/4
3	8395-3038	1	WINDSHIELD WIPER SWITCH	16	7714-3006	4	WHIZ-LOK NUT, 5/16-18
4		8"	RED WIRE, (14 GA.)	17	8820-1003	4	HEX HD CAPSCREW, 1/4-20X3/4, GR5
5	8856-1108	2	FLAT WASHER, 1/4	18	8856-1002	4	FLAT WASHER, 1/4
6	8026-3020	1	WASHER NOZZLE KIT	19	8855-1009	4	LOCKWASHER, 1/4
7	8026-3099	1	WIPER BLADE	20	8850-1004	4	HEX NUT, 1/4-20
8	8026-3080	1	WIPER ARM	21	7716-3105	1	INSULATED FEMALE BULLET
*9	8026-3081	1	WIPER MOTOR, (2-speed)	22	8698-3193	1	INSULATED MALE BULLET
10	9002-8960	5	INSULATED MALE SPADE	23	9002-7316	1	SELF-TAPPING SCREW, #10-24X3/4
11	8026-3101	1	WIPER HARNESS	24	8698-3188	1	RING TERMINAL, #10
*12		8'	WASHER HOSE	*25	8662-1230	2	CLAMP
13	8368-3085	1	WASHER BOTTLE ASSY				

* - Changed quantity on items 9 & 12; added item 25.

GRADALL

HYDRAULIC EXCAVATOR

Upperstructure

XL2300

Wheeled Mount

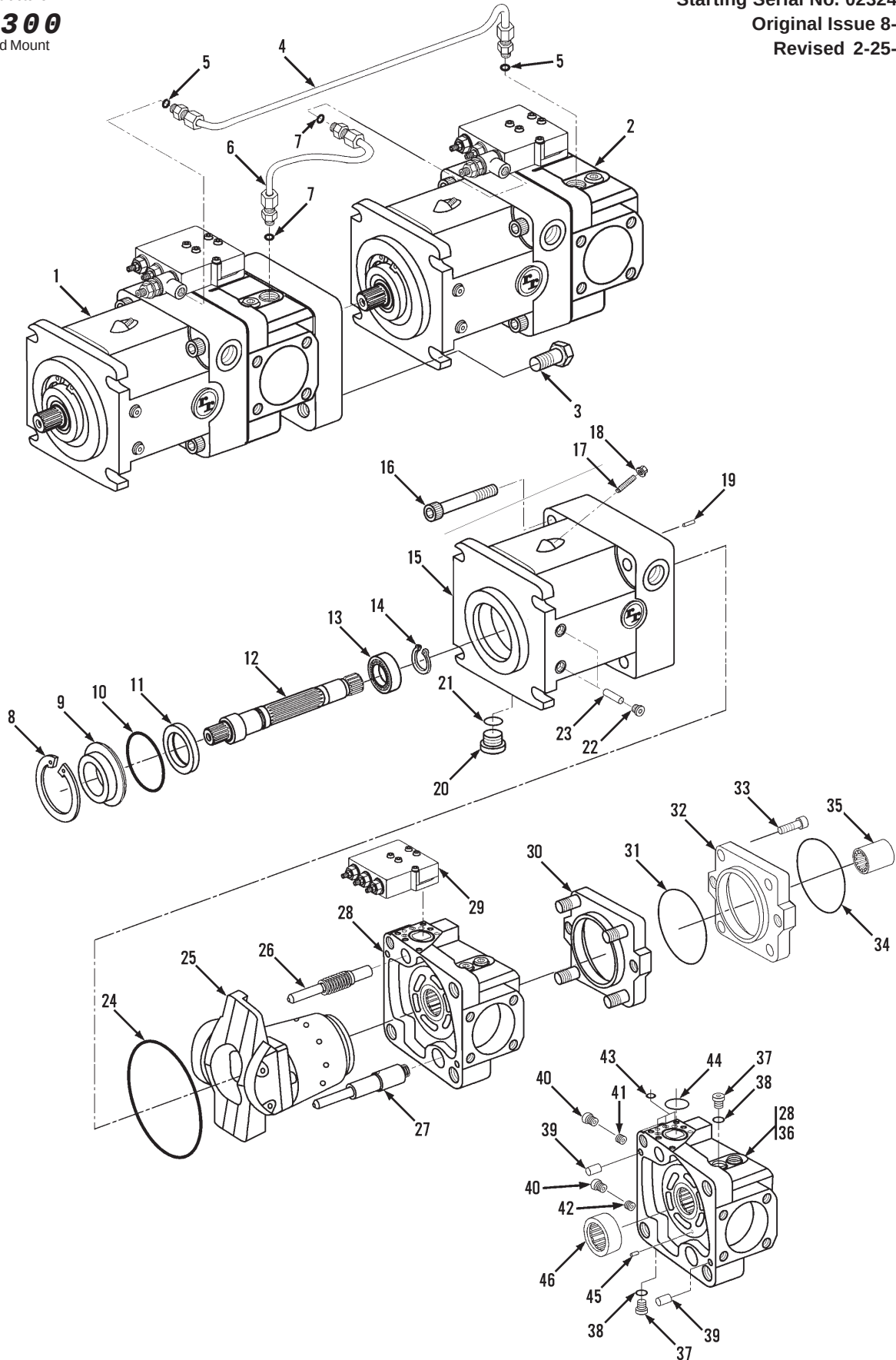
HYDRAULIC SYSTEM COMPONENTS

(8023-3169) Main Pump Assembly

Starting Serial No. 0232412

Original Issue 8-99

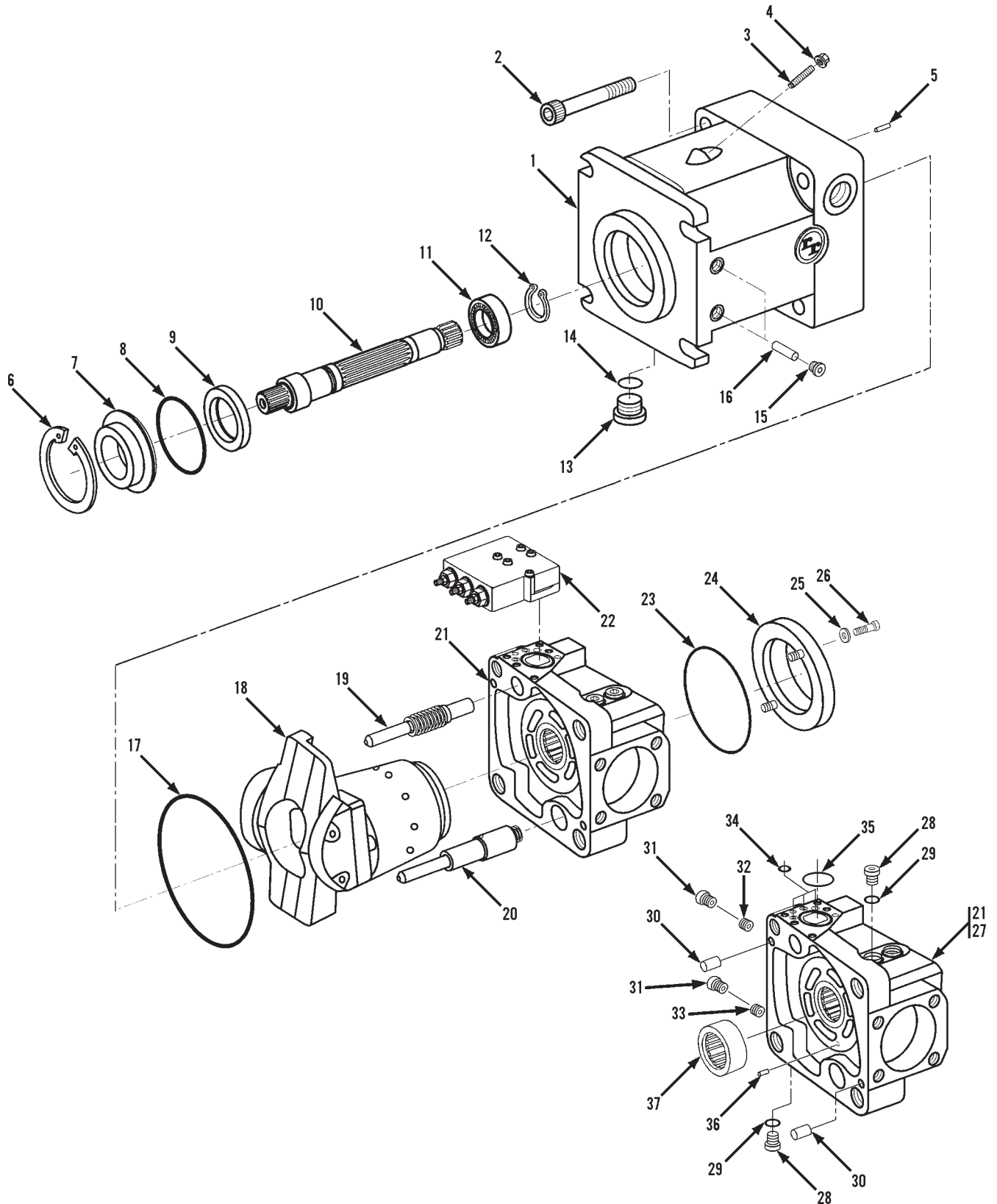
Revised 2-25-00



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-3169	1	MAIN HYDRAULIC TANDEM PUMP ASSY, (includes all items on pages UP4-1 & UP4-2)	23	8093-4029	4	JOINT PIN
	8023-4015	1		24		1	O-RING
				25	8023-4030	1	ROTARY GROUP
				26	8023-4031	1	STROKING PISTON ASSY
				27	8023-4032	1	DESTROKING PISTON ASSY
1	8023-4016	1	FRONT PUMP ASSY, (includes items 8 thru 46)	28	8023-4033	1	PORT BLOCK ASSY, (includes items 36 thru 45)
2		Ref	REAR PUMP ASSY, (see page UP4-2 for details)	29	8023-4034	1	CONTROL ASSY
3	8023-4017	4	HEX HD CAPSCREW, 3/4-10X1-1/2	30	8023-4035	1	THRU DRIVE ASSY, (includes items 31 thru 35)
*4	8023-4019	1	TUBE ASSY	31		1	O-RING
5		1	O-RING	32	8023-4036	1	SUPPORT PLATE
*6	8023-4018	1	TUBE ASSY	33	8023-4037	4	CAPSCREW
7		1	O-RING	34		1	O-RING
8	8023-4020	1	SNAP RING	35	8023-4038	1	COUPLING
9	8023-4021	1	FRONT COVER	36	8023-4039	1	PORT BLOCK
10		1	O-RING	37	8392-4122	2	PLUG, (includes item 38)
11	9108-4196	1	SHAFT SEAL	38		2	O-RING
12	8023-4022	1	SHAFT	39	8023-4040	2	DOWEL PIN
13	8023-4023	1	FRONT BEARING	40		1	O-RING
14	8023-4024	1	RETAINING RING	41	8093-4193	1	ORIFICE
15	8023-4025	1	HOUSING ASSY	42	8023-4041	1	ORIFICE
16	8023-4026	4	HEX HD CAPSCREW, M16-65	43		3	QUAD RING
17	8023-4027	2	DISPLACEMENT STOP SCREW	44		1	O-RING
18	8093-4314	2	SEAL NUT	45	8093-4261	1	DOWEL PIN
19	8093-4028	2	ROLL PIN	46	8023-4042	1	ROLLER BEARING
20	8392-4120	2	PLUG, (includes item 21)				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.
21	8093-4526	2	O-RING				
22	8093-4162	4	JOINT PIN				

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

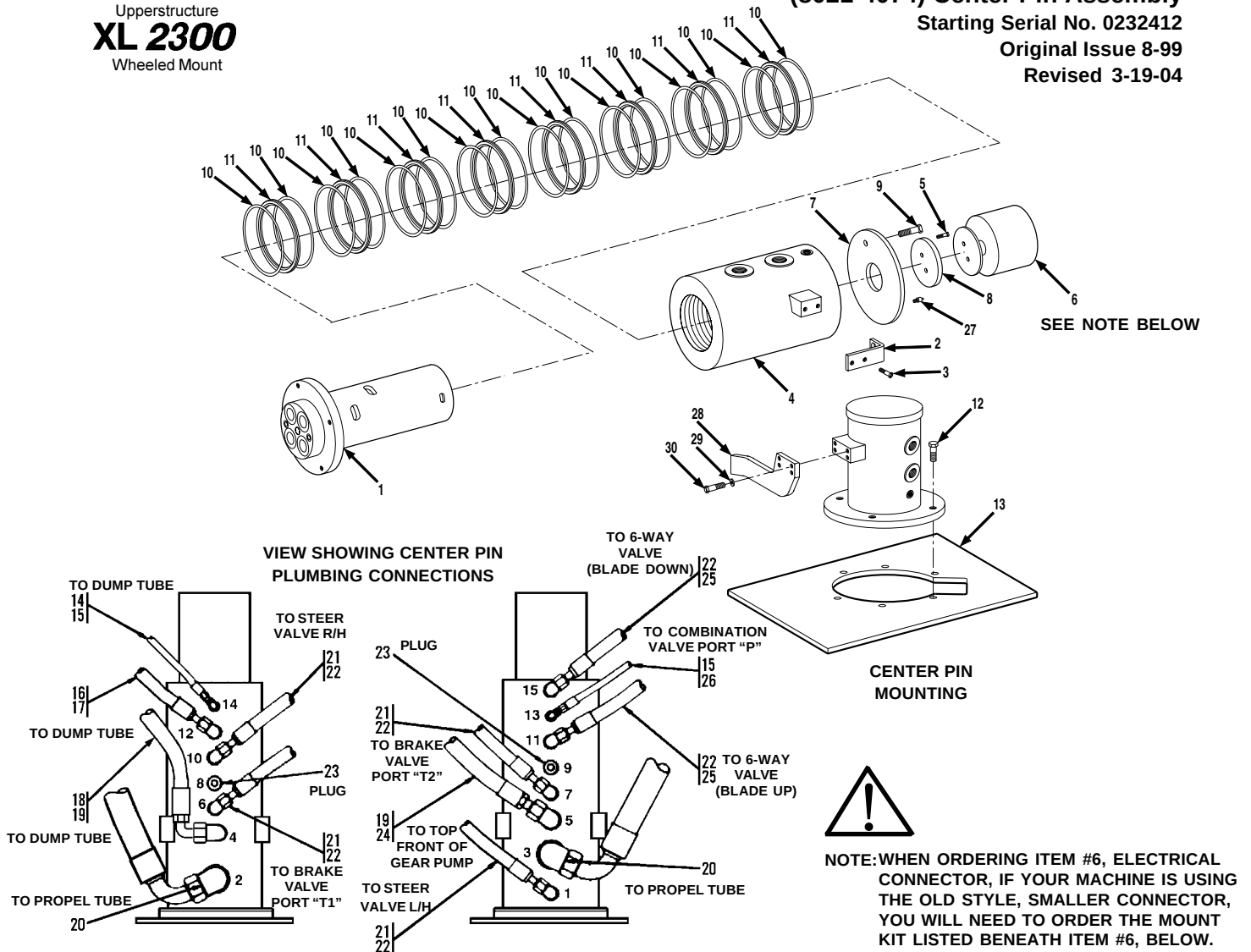
HYDRAULIC SYSTEM COMPONENTS
(8023-3169) Main Pump Assembly
Starting Serial No. 0232412
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-3169	1	MAIN HYDRAULIC TANDEM PUMP ASSY, (includes all items on pages UP4-1 & UP4-2)	18	8023-4030	1	ROTARY GROUP
	8023-4015	1	SEAL KIT, (includes items 4, 8, 9, 13, 14, 15, 17, 23, 29, 31, 34 & 35, on page UP4-2 and designated items on page UP4-1)	19	8023-4031	1	STROKING PISTON ASSY
1	8023-4043	1	REAR PUMP ASSY, (includes all items)	20	8023-4032	1	DESTROKING PISTON ASSY
2	8023-4026	4	HEX HD CAPSCREW, M16	21	8023-4033	1	PORT BLOCK ASSY, (includes items 27 thru 36)
3	8023-4027	2	DISPLACEMENT STOP SCREW	22	8023-4034	1	CONTROL ASSY
4	8093-4314	2	SEAL NUT	23		11	O-RING
5	8023-4028	2	ROLL PIN	24	8023-4044	1	SUPPORT PLATE
6	8023-4020	1	SNAP RING	25	8093-4125	2	LOCKWASHER, M6
7	8023-4021	1	FRONT COVER	26	8093-4153	2	CAPSCREW, M6X12
8		1	O-RING	27	8023-4039	1	PORT BLOCK
9		1	SHAFT SEAL	28	8392-4122	2	PLUG, (includes item 29)
10	8023-4022	1	SHAFT	29		2	O-RING
11	8023-4023	1	FRONT BEARING	30	8023-4040	2	DOWEL PIN
12	8023-4024	1	RETAINING RING	31		2	PLUG
13	8392-4120	2	PLUG	32	8093-4193	1	ORIFICE
14	8093-4526	2	O-RING	33	8023-4041	1	ORIFICE
15	8093-4162	4	PLUG	34		3	QUAD RING
16	8023-4029	4	JOINT PIN	35		1	O-RING
17		1	O-RING	36	8093-4261	1	DOWEL PIN
				37	8023-4042	1	ROLLER BEARING
							NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL 2300
Wheeled Mount

HYDRAULIC SYSTEM COMPONENTS
(8021-4074) Center Pin Assembly
Starting Serial No. 0232412
Original Issue 8-99
Revised 3-19-04

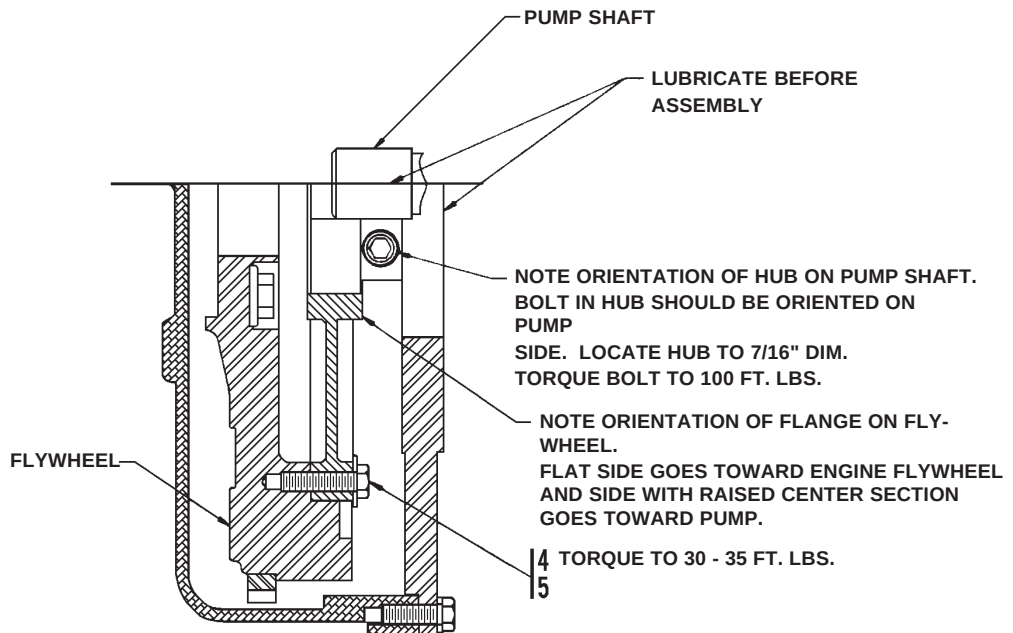
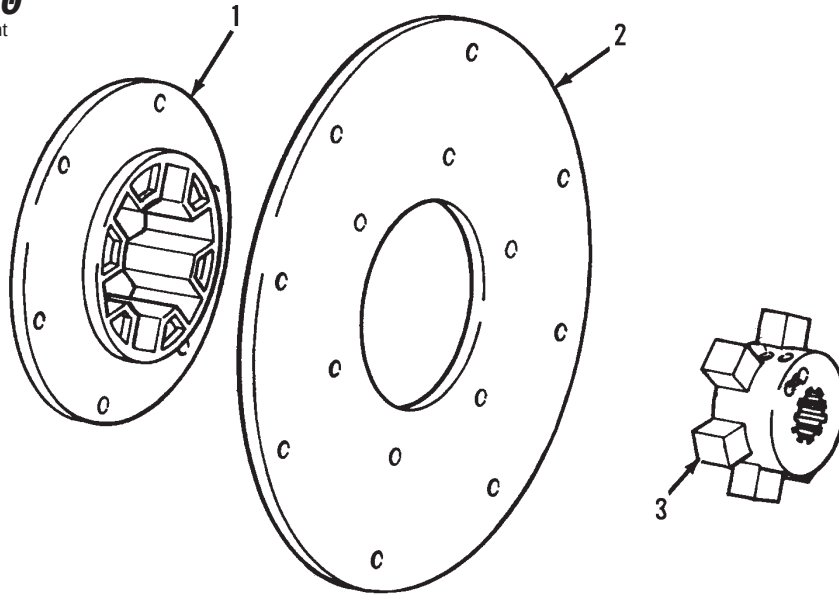


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8021-4074	1	CENTER PIN ASSY, (include items 1 thru 11 & item 27)	15	8023-3193	2	ELBOW, 90 DEGREES, (includes o-ring)
	8021-4075	1	SEAL KIT, (includes items 10 & 11)	16	8471-9153	1	HOSE ASSY
1	8021-4159	1	CENTER PIN	17	8023-3187	1	ELBOW, 90 DEGREES, (includes o-ring)
2	8021-4160	1	ANTI-ROTATION BRACKET	18	8471-9279	1	HOSE ASSY
3	8021-4161	2	CAPSCREW	19	8023-3188	2	ELBOW, 90 DEGREES, (includes o-ring)
4	8021-4162	1	HOUSING	20	8023-3189	2	ELBOW, 90 DEGREES, (includes o-ring)
5	8021-4163	2	CAPSCREW	21	8471-9151	4	HOSE ASSY
6	8021-4164	1	ELECTRIC CONNECTOR	22	8023-3187	6	ELBOW, 90 DEGREES, (includes o-ring)
*	8021-4380	1	ELECTRICAL CONNECTOR MOUNT KIT, (see illustration note)	23	8023-3219	2	HEX PLUG, (include o-ring)
7	8021-4165	1	COVER	24	8471-7425	1	HOSE ASSY
8	8021-4166	1	CONNECTOR SUPPORT	25	8471-9195	2	HOSE ASSY
9	8021-4167	4	CAPSCREW	26	8471-9157	1	HOSE ASSY
10	8021-4168	32	BACK-UP RING	27	8021-4170	1	LUBE FITTING
11	8021-4169	16	O-RING	28	8023-1013	1	STABILIZER
12	8319-1060	4	HEX HD CAPSCREW, M12-1.75X50, GR10.9, (lubricate & torque to 93-103 ft. lbs.)	29	8319-1065	4	HEX HD CAPSCREW, M10-1.5X45, GR12.9
13	8021-4355	1	TOP RING	30	8023-3220	4	HARDENED WASHER, M10
14	8471-9158	1	HOSE ASSY				

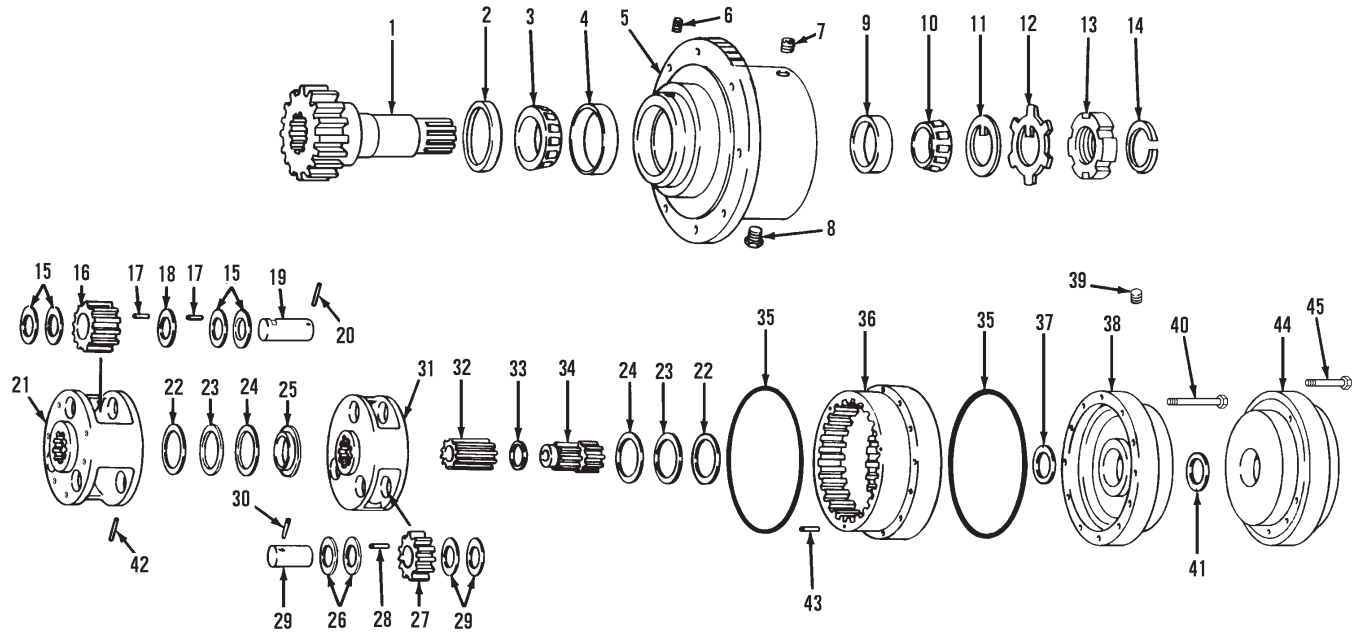
* - Added second line item to item 6; added illustration note.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

HYDRAULIC SYSTEM COMPONENTS
(8023-3003) Pump Coupler Assembly
Starting Serial No. 0232412
Original Issue 8-99

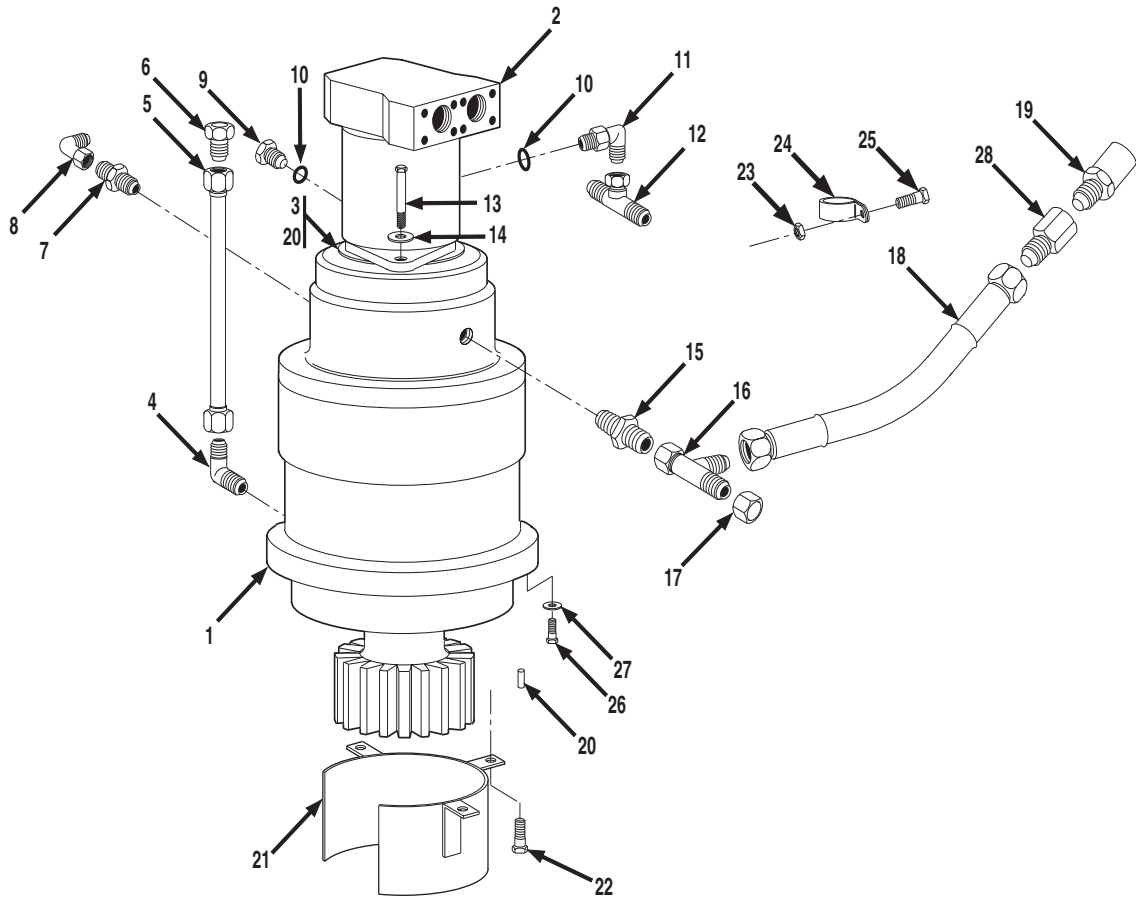


Item	Part No.	Qty.	Description Of Part
	8027-3003	1	PUMP COUPLER ASSY, (includes items 1 thru 3)
1	8027-4008	1	FLANGE
2	8027-4009	1	PLATE
3	8027-4007	1	HUBSTAR
4	8820-1037	8	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5, (lubricate & torque to 30-35 ft. lbs.)
5	8856-1004	8	FLAT WASHER, 3/8



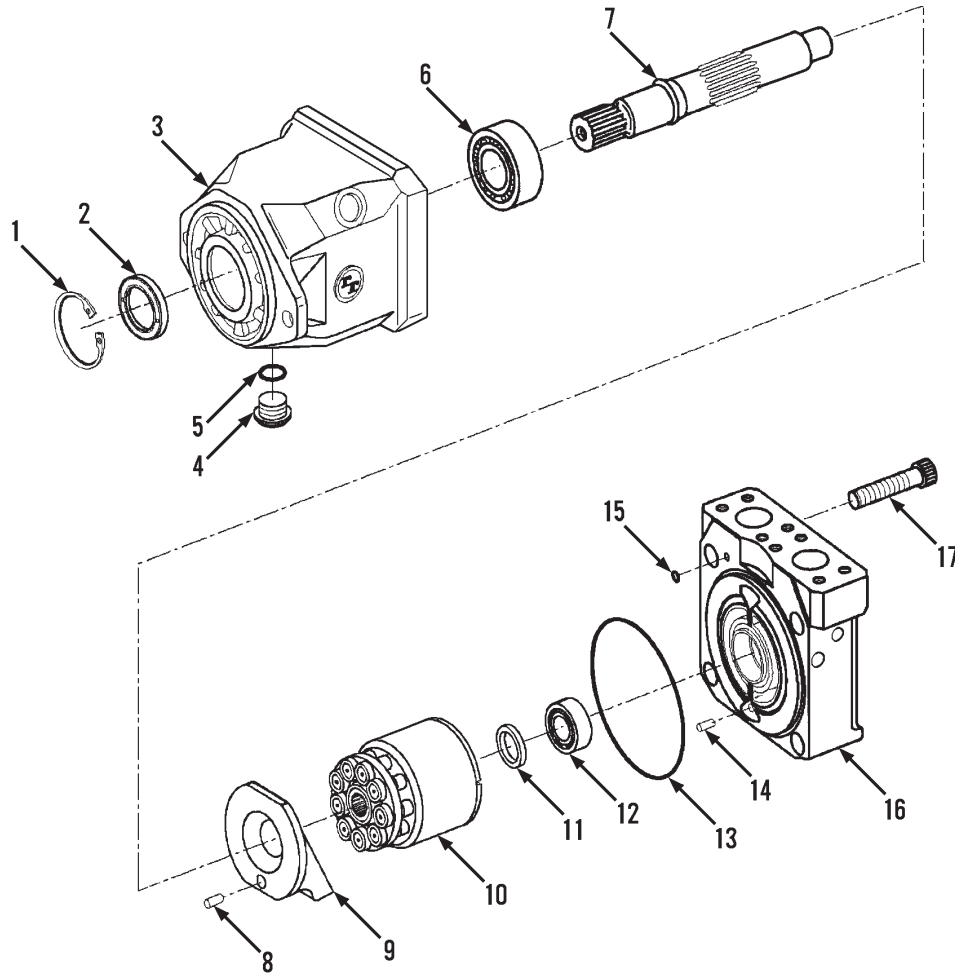
Item	Part No.	Qty.	Description Of Part
	8024-3018	1	SWING TRANSMISSION ASSY, (includes all items)
1	8024-4012	1	OUTPUT SHAFT
2	7734-4004	1	OIL SEAL
3	7734-4006	1	BEARING CONE
4	7734-4007	1	BEARING CUP
5	8364-4010	1	HOUSING
6	7714-4007	2	PIPE PLUG
7	7712-4007	1	PIPE PLUG
8	7714-4008	1	MAGNETIC PLUG
9	7714-4005	1	BEARING CUP
10	7714-4004	1	BEARING CONE
11	7734-4009	1	TANGED WASHER
12	7734-4010	1	LOCKWASHER
13	7734-4011	1	LOCKNUT
14	7734-4012	1	RETAINING RING
15	7714-4012	12	THRUSTWASHER
16	7734-4014	3	PLANET GEAR
17	7714-4014	108	NEEDLE ROLLER
18	7714-4015	3	SPACER
19	8094-4034	3	PLANET SHAFT
20	8094-4038	3	ROLL PIN
21	8094-4031	1	SECOND STAGE CARRIER
22	9020-2542	2	THRUSTWASHER, (thick)

Item	Part No.	Qty.	Description Of Part
23	9020-2543	2	THRUST BEARING
24	7714-4019	2	THRUSTWASHER, (thin)
25	7714-4020	1	THRUST BEARING CARRIER
26	7714-4022	12	THRUSTWASHER
27	7714-4023	3	PLANET GEAR
28	7714-4024	57	NEEDLE ROLLER
29	7714-4025	3	PLANET SHAFT
30	7714-4036	3	ROLL PIN
31	7714-4026	1	FIRST STAGE CARRIER
32	7734-4015	1	SECOND STAGE SUN GEAR
33	7714-4028	2	THRUSTWASHER
34	8024-4013	1	INPUT GEAR
35	7712-4024	2	O-RING
36	7734-4017	1	RING GEAR
37	8024-4014	1	THRUSTWASHER
38	8024-4015	1	INPUT COVER
39	7712-4007	2	PIPE PLUG
40	7734-4019	24	BOLT
41	9020-2533	1	RETAINING RING
42	9020-2517	3	ROLL PIN
43	7734-4055	3	DOWEL PIN
44		Ref	SWING BRAKE ASSY, (see page UP4-8 for details)
45	8024-4017	2	SOCKET HD CAPSCREW

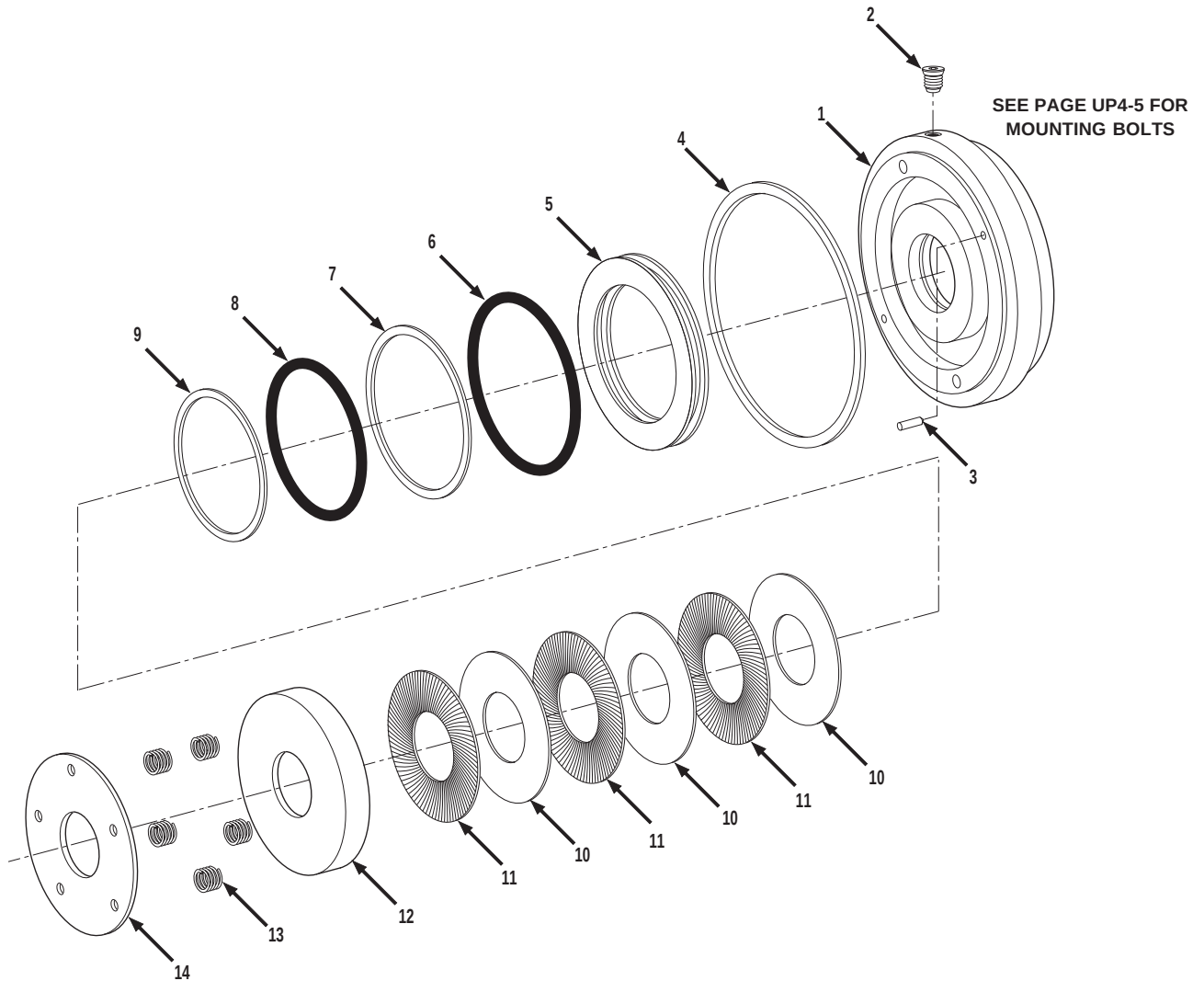


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8024-5003	1	SWING TRANSMISSION INSTALLATION, (includes all items except items 20 thru 22)	13	8820-1072	2	HEX HD CAPSCREW, 1/2-13X2-3/4, GR5, (lubricate & torque to 68-78 ft. lbs.)
1		Ref	SWING TRANSMISSION ASSY, (see page UP4-5 for details)	14	8855-1013	2	LOCKWASHER, 1/2
2		Ref	SWING MOTOR ASSY, (see page UP4-7 for details)	15	8866-1009	1	MALE CONNECTOR
3	8024-3021	1	O-RING	16	8866-2239	1	RUN TEE
4	8866-1112	1	ELBOW, 90 DEGREES	*17	8866-1364	1	CAP
5	8024-3020	1	TUBE ASSY	18	8471-9028	1	HOSE ASSY
6	8866-1385	1	HEX PLUG, 3/8 TUBE	19	7734-3070	1	VENT
7	8366-1316	1	ADAPTER	20	8863-1684	2	DOWEL PIN, 1/8X1/8
8	8866-2105	1	ELBOW, 90 DEGREES, (swivel nut)	21	8094-6002	1	PINION GUARD
9	8866-2176	1	HEX PLUG, (includes item 10)	22	8097-3025	3	WHIZ-LOK SCREW, 3/8-16X1
10	8859-1206	2	O-RING	23	7714-3015	1	WHIZ-LOK NUT, 3/8-16
11	8866-2435	1	ELBOW, 90 DEGREES, (includes item 10)	24	8594-1017	1	SUPPORT CLAMP
12	8866-2355	1	SWIVEL NUT BRANCH TEE	25	8097-3025	1	WHIZ-LOK SCREW, 3/8-16X1
				26	8320-1017	8	HEX HD CAPSCREW, 3/4-10X2-3/4, (lubricate & torque to 340-365 ft. lbs.)
				27	9002-7473	8	HARDENED WASHER, 3/4
				*28	8024-3019	1	ADAPTER

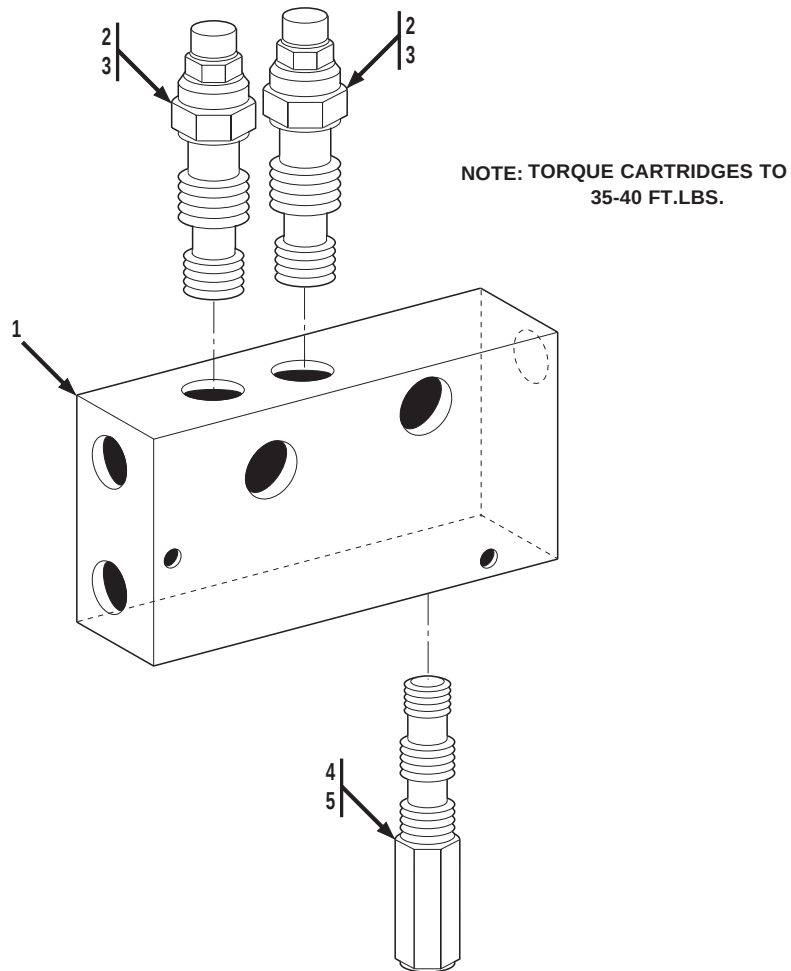
* - Changed part number on item 17; added item 28.



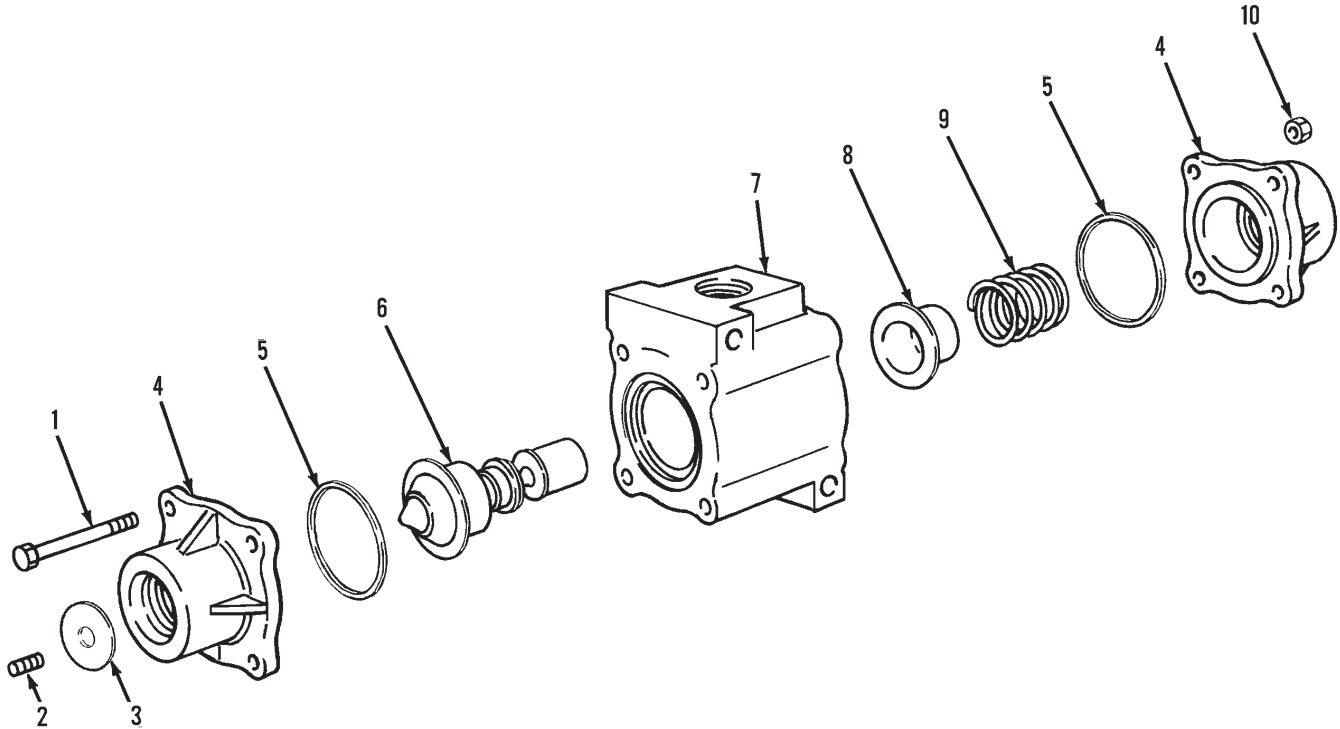
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-3089	1	SWING MOTOR ASSY, (includes all items)	10	8023-4075	1	ROTARY GROUP
	8023-4068	1	SEAL KIT (includes items 2, 5, 13 & 15)	11	8023-4076	1	SHIM
1	8023-4069	1	RETAINING RING	12	8023-4077	1	ROLLER BEARING
2		1	SHAFT SEAL	13		1	O-RING
3	8023-4070	1	HOUSING	14	8023-4078	1	DOWEL PIN
4	8092-4120	1	PLUG	15		1	O-RING
5	8093-4526	1	O-RING	16	8023-4079	1	PORT BLOCK
6	8023-4071	1	ROLLER BEARING	17	8023-4080	4	CAPSCREW
7	8023-4072	1	DRIVE SHAFT				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.
8	8023-4073	2	DOWEL PIN				
9	8023-4074	1	SWASH PLATE				



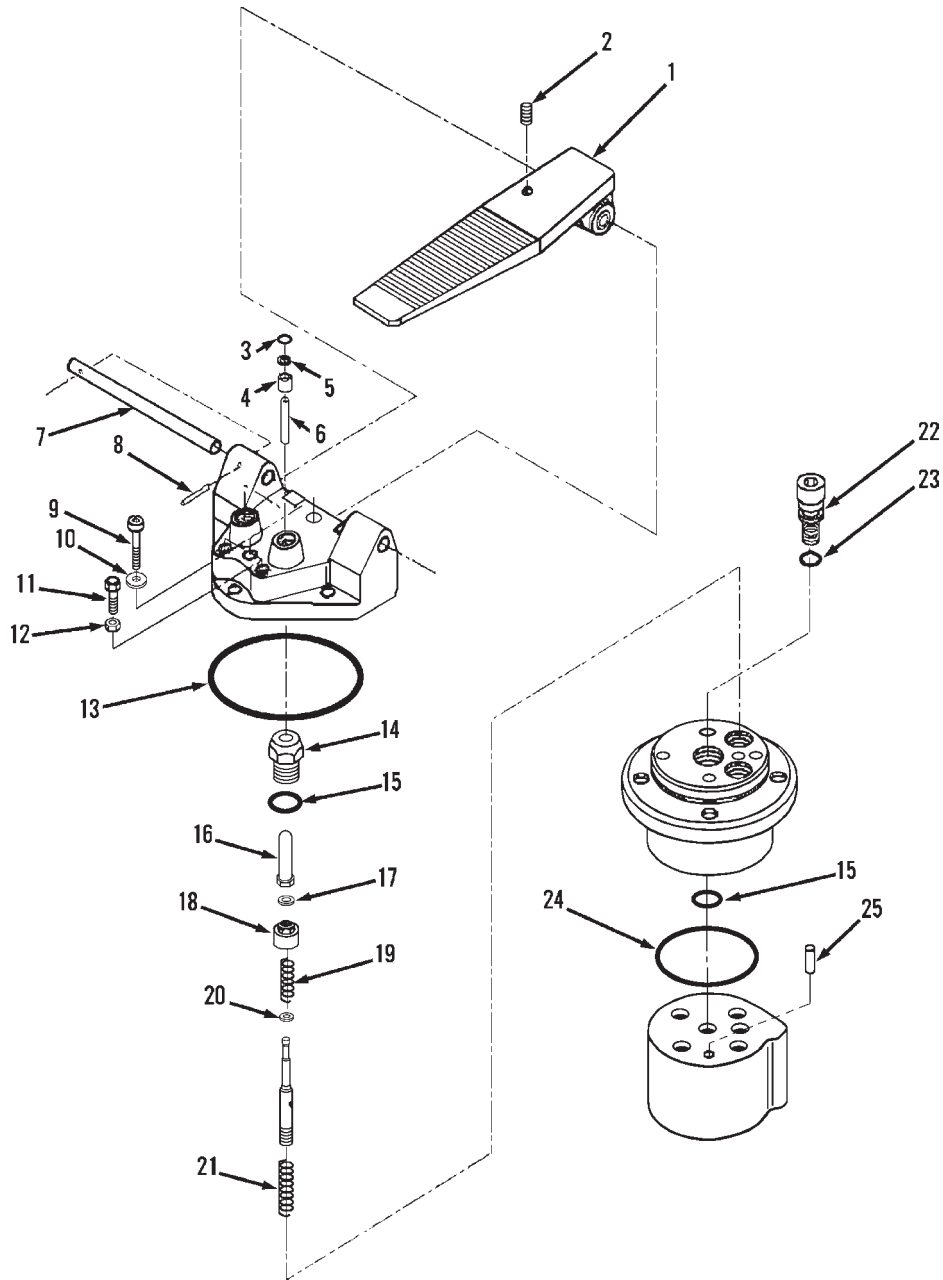
Item	Part No.	Qty.	Description Of Part
	8024-4016	1	SWING BRAKE ASSY, (includes all items)
1	8024-4018	1	PRESSURE PLATE
2	8024-4019	1	PLUG
3	8024-4020	2	DOWEL PIN
4	8024-4021	4	CASE SEAL
5	8024-4022	1	PISTON
6	8024-4023	1	O-RING
7	8024-4024	1	BACK-UP RING
8	8024-4025	1	O-RING
9	8024-4026	1	BACK-UP RING
10	8024-4027	3	STATOR
11	8024-4028	3	ROTOR
12	8024-4029	1	PLATE
13	8024-4030	5	SPRING
14	8024-4031	1	SPRING GUIDE



Item	Part No.	Qty.	Description Of Part
	8023-3087	1	PUMP VALVE ASSY (includes all items)
1		1	VALVE BODY
2	8023-4081	2	RELIEF VALVE
3	8023-4082	2	SEAL KIT
4	8023-4083	1	SEQUENCE VALVE
5	8093-4049	1	SEAL KIT
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE SERVICE.			

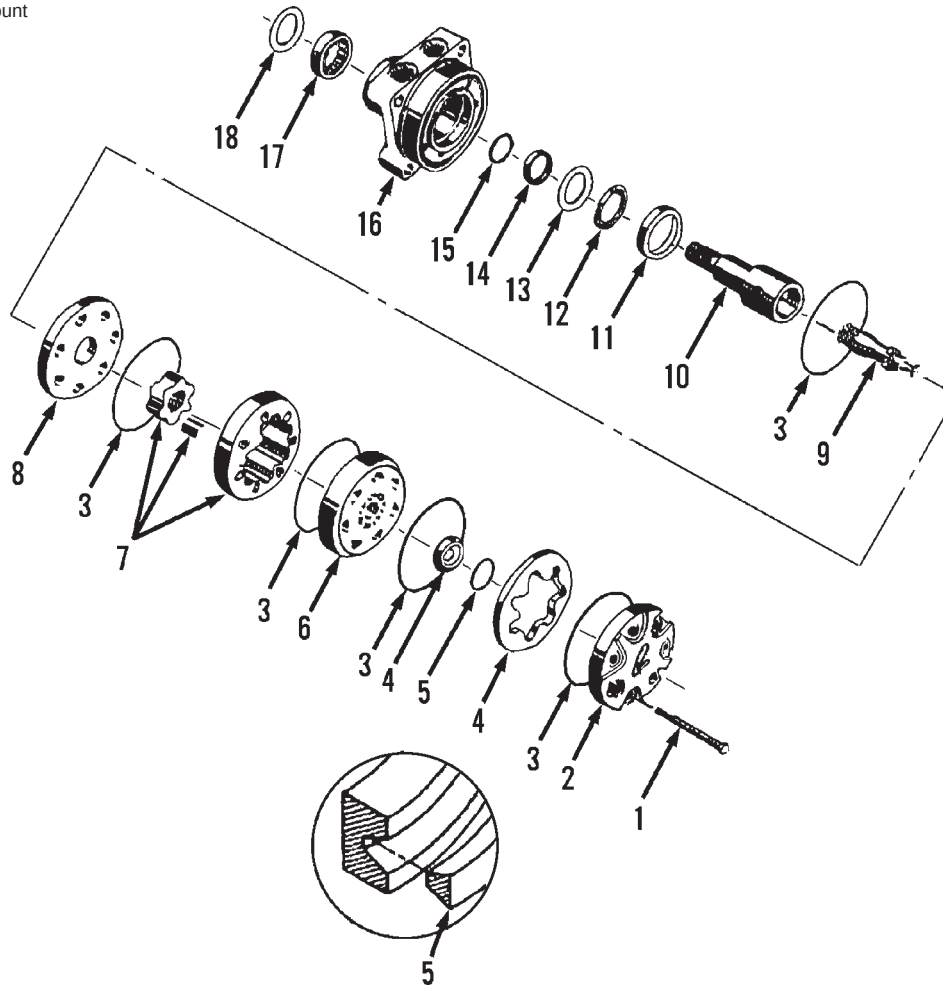


Item	Part No.	Qty.	Description Of Part
	8023-3103	1	THERMAL BY-PASS VALVE ASSY, (includes all items)
	8097-4021	1	ELEMENT KIT, (includes items 3, 4 & 6)
1	8097-4006	4	HEX HD CAPSCREW
2	8023-4134	1	SET SCREW
3	8023-4135	1	WASHER
4	8097-4007	2	FITTING
5		2	SEAL
6		1	THERMAL ELEMENT ASSY
7	8097-4010	1	VALVE BODY
8		1	SEAL ASSY
9	8097-4012	1	SPRING
10	8097-4013	4	HEX LOCKNUT
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE SERVICE.			

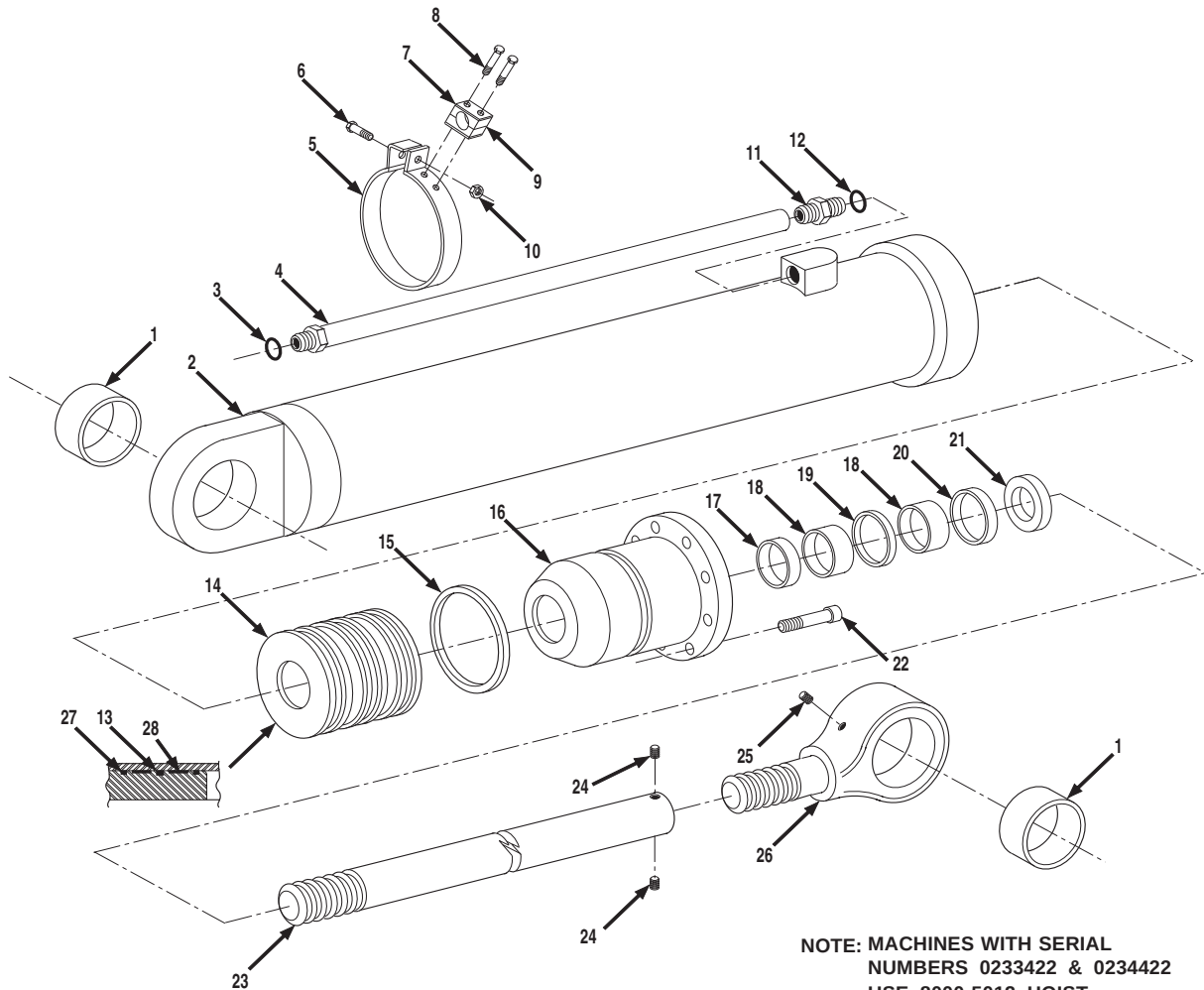


Item	Part No.	Qty.	Description Of Part
	8023-3128	1	FOOT PEDAL VALVE ASSY, (includes all items)
	8023-4302	1	SEAL KIT, (includes items 12, 13, 15, 23 & 24)
1	8023-4303	1	FOOT PEDAL W/BUSHINGS
2	8023-4304	1	SET SCREW
3	8023-4305	1	SEAL RING
4	8023-4306	1	BUSHING
5	8093-4248	1	LIP SEAL
6	8023-4307	1	PLUNGER
7	8023-4308	1	AXLE
8	8023-4309	1	PIN
9	8093-4205	2	SOCKET HD CAPSCREW
10	8023-4310	2	SEAL RING
11	8023-4311	2	HEX HD CAPSCREW

Item	Part No.	Qty.	Description Of Part
12	8023-4312	2	HEX NUT
13	8023-4313	1	O-RING
14	8023-4314	2	GUIDE, (includes item 15)
15	9130-4002	3	O-RING
16	8093-4249	2	PLUNGER
17	8093-4253	2	LOCKING DISC
18	8023-4315	2	SPRING RETAINER
19	8023-4316	2	CONTROL SPRING
20	8093-4258	4	SHIM
21	8023-4317	2	RETURN SPRING
22	8023-4318	1	RETAINING BOLT
23	8023-4319	1	O-RING
24	8023-4320	1	O-RING
25	9130-4004	2	DOWEL PIN



Item	Part No.	Qty.	Description Of Part
	8023-3197	1	TILT MOTOR ASSY, (includes all items)
	8032-4058	1	SEAL KIT, (includes items 3, 5, 14, 15 & 18)
1	8023-4284	7	BOLT
2	8023-4285	1	END COVER
3	8032-4041	5	SEAL RING
4	8023-4287	1	COMMUTATOR & RING ASSY
5	8032-4043	1	COMMUTER SEAL
6	8023-4289	1	MANIFOLD
7	8023-4290	1	ROTOR SET
8	8023-4291	1	WEAR PLATE
9	8023-4292	1	DRIVE LINK
10	8023-4293	1	COUPLING SHAFT
11	8023-4294	1	BUSHING, (bronze)
12	8023-4295	1	THRUST WASHER
13	8023-4296	1	THRUST BEARING
14	8032-4052	1	SHAFT SEAL
15	8032-4053	1	BACK-UP WASHER
16	8023-4299	1	HOUSING, (includes items 11 & 17)
17	8023-4300	1	BEARING
18	8032-4057	1	SEAL



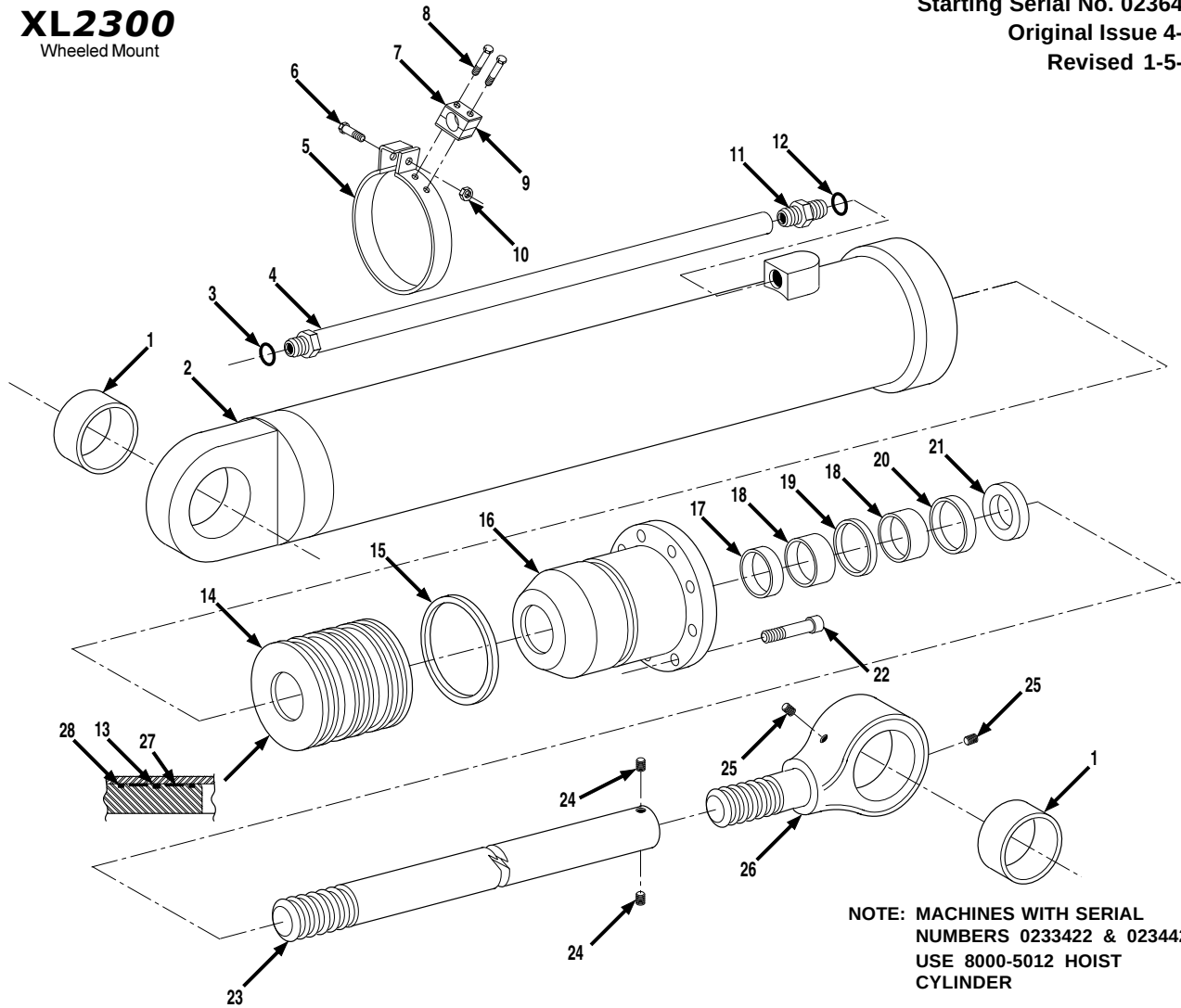
**NOTE: MACHINES WITH SERIAL
NUMBERS 0233422 & 0234422
USE 8000-5012 HOIST
CYLINDER**

Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8000-5012	1	HOIST CYLINDER ASSY (includes all items)	15	8000-3473	1	STATIC SEAL
*	8000-3436	AR	PACKING KIT (includes items 13, 15, 17, 18, 19, 20, 21, 27 & 28)	16	8000-1606	1	CYLINDER HEAD
1	8000-1190	2	BUSHING	17	8000-3438	1	INGESTION BEARING
2	8000-6154	1	CYLINDER TUBE WELDMENT	18	8000-3437	2	ROD BEARING
3	8859-1507	1	O-RING	19	8000-3439	1	BUFFER SEAL
4	8000-3442	1	OIL TUBE ASSY	20	8000-3440	1	ROD SEAL
5	8000-6155	1	OIL TUBE COLLAR	21	8000-3441	1	ROD WIPER
6	8820-1039	1	HEX HD CAPSCREW, 3/8-16X2, GR5	22	8821-1106	9	SOCKET HD CAPSCREW, 1/2-13x1-1/4, GR8, (lubricate & torque to 100-110 ft. lbs.)
7	7713-3052	1	COVER PLATE	*23	8000-5028	1	PISTON ROD ASSY, (includes items 14 & 26)
8	7713-3209	2	HEX HD CAPSCREW, 1/4-20X1-3/8, GR5	24	8822-1386	2	HEX SOCKET SET SCREW, (half dog point), 3/8-16x1/2
9	7713-3053	1	CLAMP SET	25	8871-1280	1	HEX SOCKET PIPE PLUG, 1/8
10	8852-1006	1	HEX LOCKNUT, 3/8-16	26		1	ROD EYE
11	8866-2304	1	CONNECTOR, (includes item 12)	*27	8000-3643	2	INGESTION RING
12	8859-1207	1	O-RING	*28	8000-3642	2	BEARING
*13	8000-3641	1	PISTON SEAL				
14		1	PISTON, (torque to 1600 ft. lbs.)				

* - Added note to illustration; added items 27 & 28; changed part number on item 13; added note to item 23.
revised inclusion note on 8000-3436.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

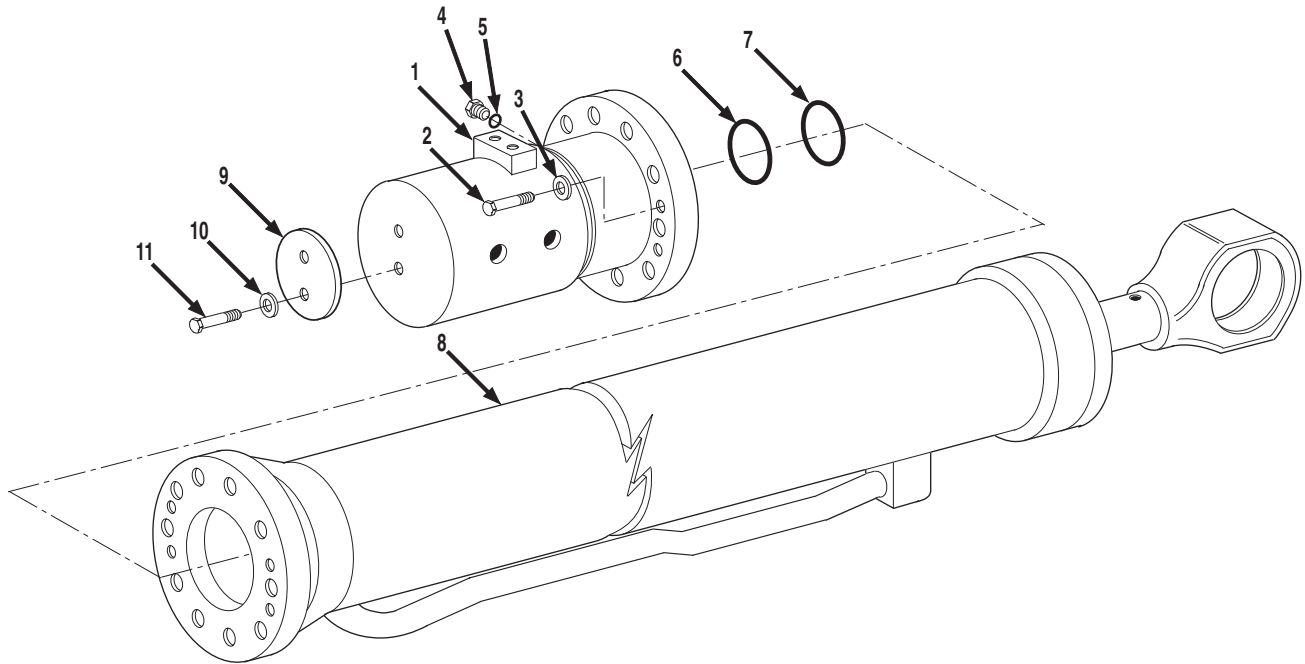
HYDRAULIC SYSTEM COMPONENTS
(8000-5177) Hoist Cylinder Assembly
Starting Serial No. 0236420
Original Issue 4-01
Revised 1-5-04



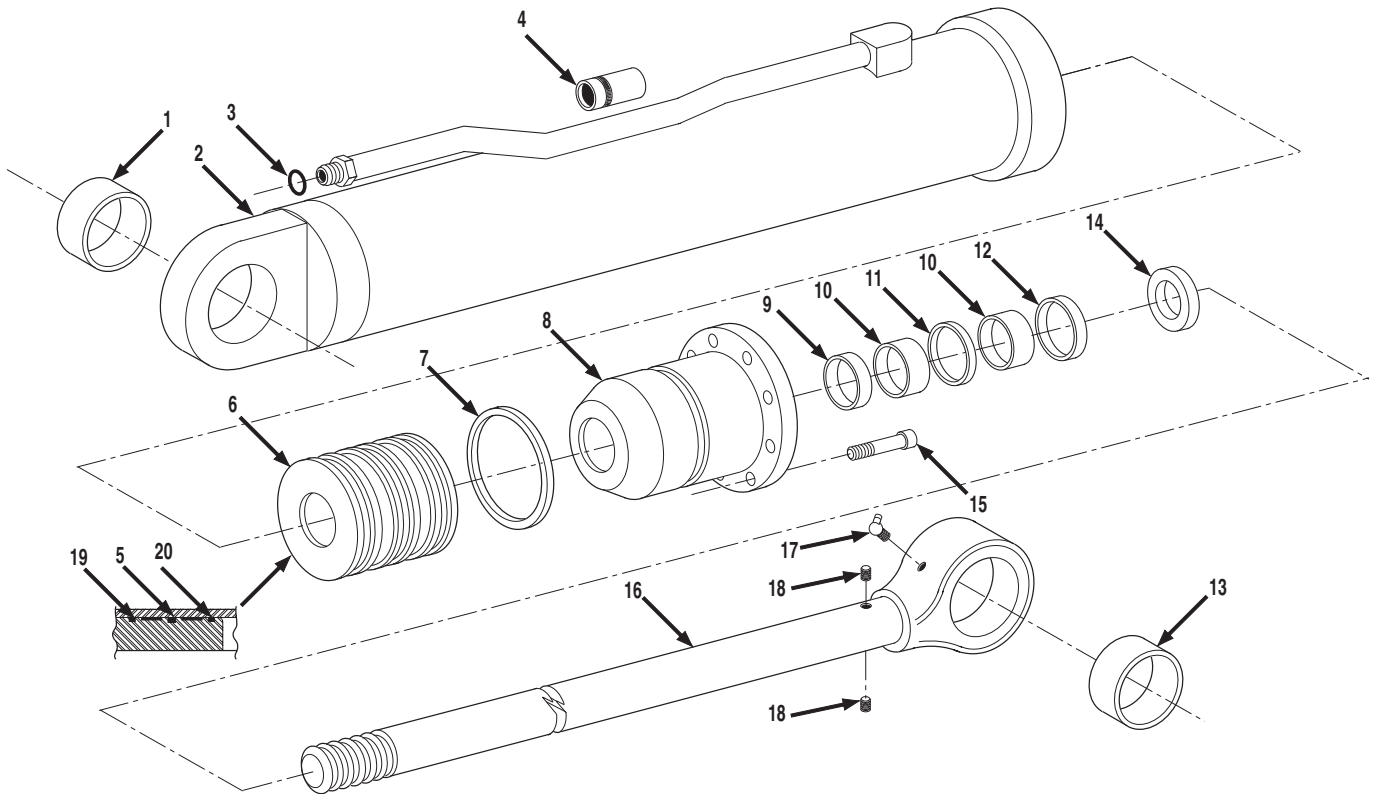
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8000-5177	1	HOIST CYLINDER ASSY, (includes all items)	17	8000-3438	1	INGESTION BEARING
	8000-3626	AR	PACKING KIT, (includes items 13, 15, 17, 18, 19, 20, 21, 27 & 28)	18	8000-3437	2	ROD BEARING
*1	8042-3042	2	BUSHING	19	8000-3624	1	BUFFER SEAL
2	8000-6154	1	CYLINDER TUBE WELDMENT	20	8000-3440	1	ROD SEAL
3	8859-1507	1	O-RING	21	8000-3644	1	ROD WIPER
4	8000-3442	1	OIL TUBE ASSY	22	8821-1106	9	SOCKET HD CAPSCREW, 1/2-13X1-1/4, GR8, (lubricate & torque to 100-110 ft. lbs.)
5	8000-6155	1	OIL TUBE COLLAR	*23	8000-5120	1	PISTON ROD ASSY, (includes item 14)
6	8820-1039	1	HEX HD CAPSCREW, 3/8-16X2, GR5	24	8822-1386	2	HEX SOCKET SET SCREW, (half dog point), 3/8-16X1/2
7	7713-3052	1	COVER PLATE	*25	8871-1280	2	HEX SOCKET PIPE PLUG, 1/8
*8	7713-3499	2	HEX HD CAPSCREW, 1/4-20X1-3/8, GR5	*26	8000-1126	1	ROD EYE
9	7713-3053	1	CLAMP SET	27	8000-3643	2	INGESTION RING
10	8852-1006	1	HEX LOCKNUT, 3/8-16	28	8000-3642	2	BEARING
11	8866-2304	1	CONNECTOR, (includes item 12)	29	8859-1508	1	O-RING
12	8859-1207	1	O-RING				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.
13	8000-3641	1	PISTON SEAL				
14		1	PISTON, (torque to 1600 ft. lbs.)				
15	8000-3628	1	STATIC SEAL				
16	8000-1638	1	CYLINDER HEAD				

* - Changed part numbers on items 1 & 8; changed inclusion note on item 23; changed quantity on item 25; added part number to item 26.

PCN020215, 020335-LK

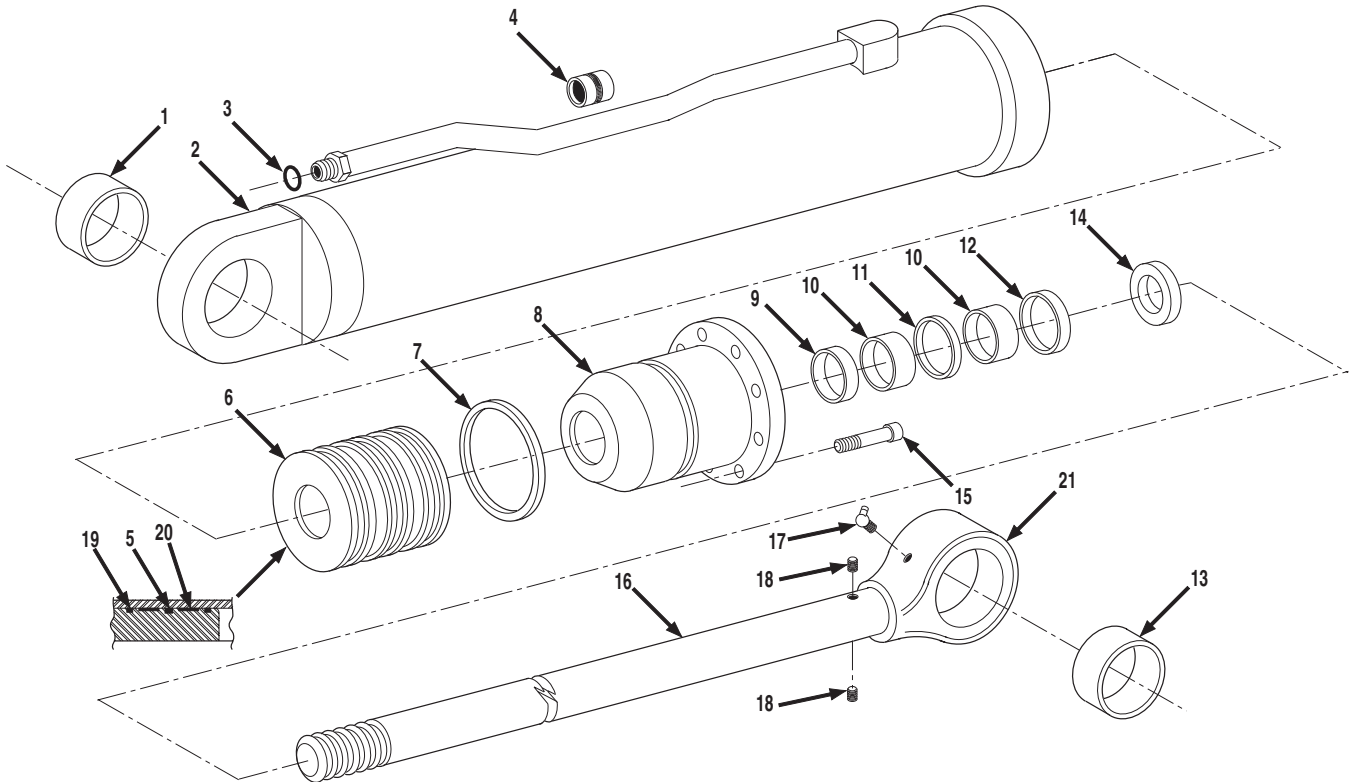


Item	Part No.	Qty.	Description Of Part
1	8022-5003	1	BOOM CYLINDER & GLAND ASSY, (w/o auxiliary hydraulics option), (includes all items except items 4 & 5)
	8022-5004	1	BOOM CYLINDER & GLAND ASSY, (w/auxiliary hydraulics option), (includes all items)
	8022-3064	1	TILT GLAND, (w/o auxiliary hydraulics option)
	8022-3066	1	PACKING KIT
	8022-3065	1	TILT GLAND, (w/auxiliary hydraulics option)
2	8022-3067	1	PACKING KIT
	8821-1073	4	SOCKET HD CAPSCREW, 3/8-16X1-1/2, GR8, (lubricate & torque to 100-110 ft. lbs.)
3	8855-1107	4	LOCKWASHER, 3/8
4	8866-2192	2	HEX HD PLUG, (includes item 5)
5	8859-1204	2	O-RING
6	9108-3106	1	O-RING
7	8093-3066	1	O-RING
8		Ref	BOOM CYLINDER ASSY, (see page UP4-29 for details)

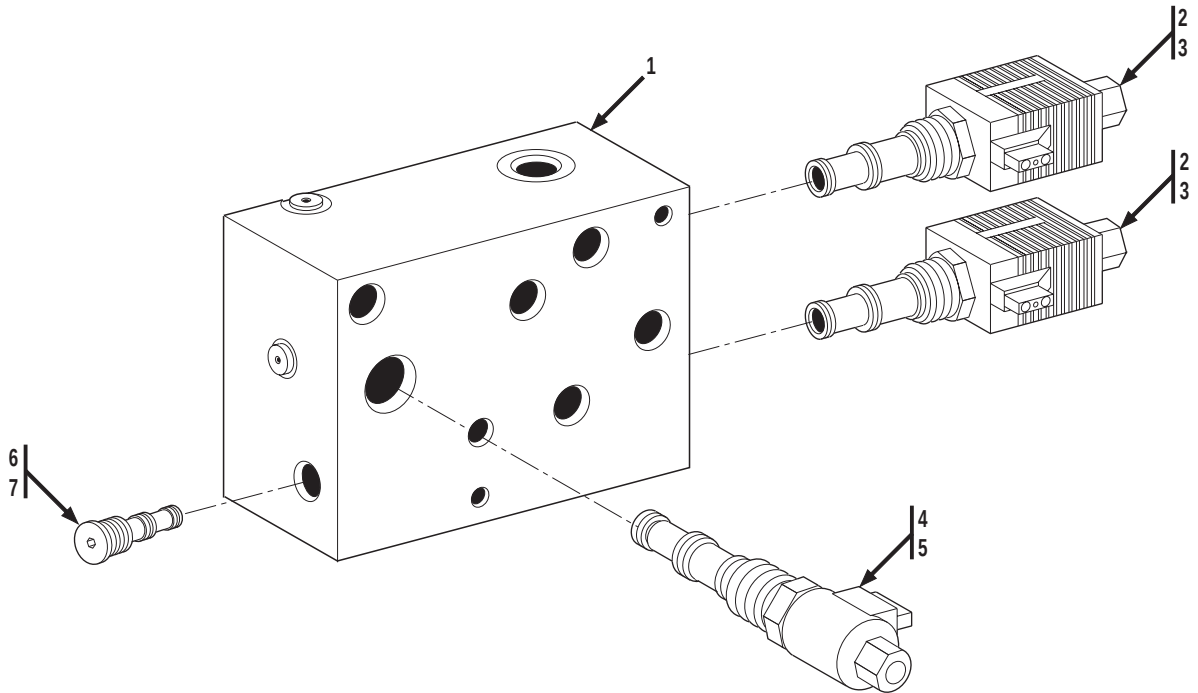


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8000-5010	1	TOOL CYLINDER ASSY (includes all items)	13	8022-3022	1	BRONZE BUSHING
	8000-3394	1	PACKING KIT, (includes items 5, 7, 9, 10, 11, 12, 13 & 14)	14	8000-3404	1	ROD WIPER
1	8022-1099	1	BUSHING	15	8821-1106	9	SOCKET HD CAPSCREW, 1/2-13X1-1/4, GR8, (lubricate & torque to 100-110 ft. lbs.)
2	8000-6148	1	CYLINDER TUBE WELDMENT	16	8000-5176	1	CYLINDER ROD ASSY, (includes item 6)
3	8859-1507	1	O-RING	17	8867-1018	1	LUBE FITTING, 45 DEGREES, 1/8
*4	8000-3484	2	HOSE ASSY	18	8822-1386	2	HEX SOCKET SET SCREW, (half dog point), 3/8-16x1/2
*5	8000-3649	1	PISTON SEAL	*19	8000-3648	2	INGESTION RING
6		1	PISTON, (torque to 750 ft. lbs.)	*20	8000-3650	2	BEARING
7	8000-3472	1	STATIC SEAL				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE
8	8000-1604	1	CYLINDER HEAD				
9	8000-3400	1	INGESTION BEARING				
10	8000-3399	2	ROD BEARING				
11	8000-3402	1	BUFFER SEAL				
12	8000-3403	1	ROD SEAL				

* -Changed part number on items 4 & 5; added items 19 & 20.
MPC3922-GP



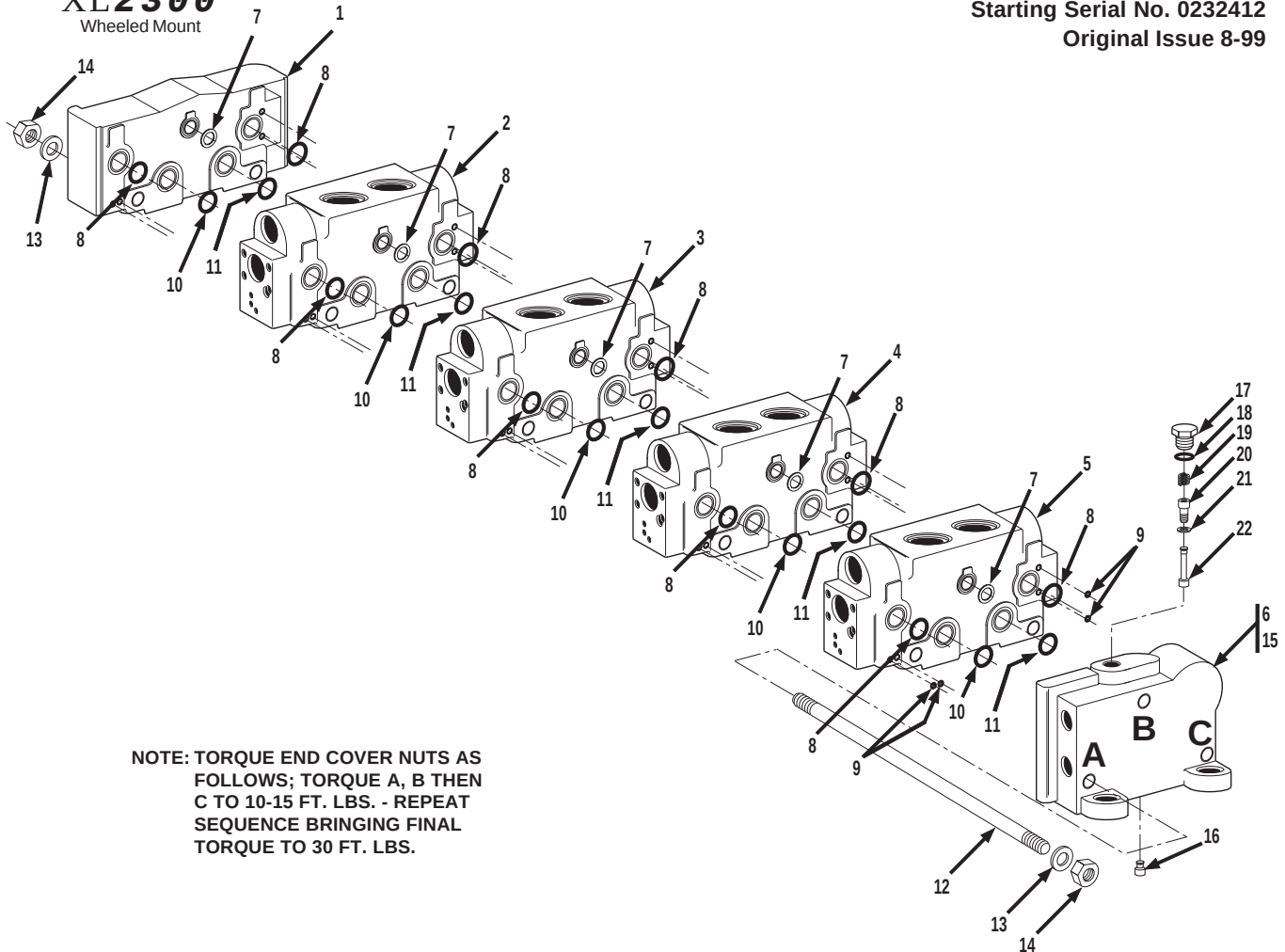
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8000-5096	1	TOOL CYLINDER ASSY (includes all items)	13	8022-3022	1	BRONZE BUSHING
	8000-3394	1	PACKING KIT, (includes items 5, 7, 9, 10, 11, 12, 14, 19 & 20)	14	8000-3404	1	ROD WIPER
1	8022-1099	1	BUSHING	15	8821-1106	9	SOCKET HD CAPSCREW, 1/2-13X1-1/4, GR8, (lubricate & torque to 100-110 ft. lbs.)
2	8000-6148	1	CYLINDER TUBE WELDMENT	16	8000-5100	1	CYLINDER ROD ASSY, (includes item 6)
3	8859-1507	1	O-RING	17	8867-1018	1	LUBE FITTING, 45 DEGREES, 1/8
4	8000-3484	1	HOSE ASSY	18	8822-1386	2	HEX SOCKET SET SCREW, (half dog point), 3/8-16x1/2
5	8000-3649	1	PISTON SEAL	19	8000-3648	2	INGESTION RING
6		1	PISTON, (torque to 750 ft. lbs.)	20	8000-3650	2	BEARING
7	8000-3472	1	STATIC SEAL	21	8000-1405	1	RODEYE
8	8000-1604	1	CYLINDER HEAD				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE
9	8000-3400	1	INGESTION RING				
10	8000-3399	2	ROD BEARING				
11	8000-3402	1	BUFFER SEAL				
12	8000-3403	1	ROD SEAL				



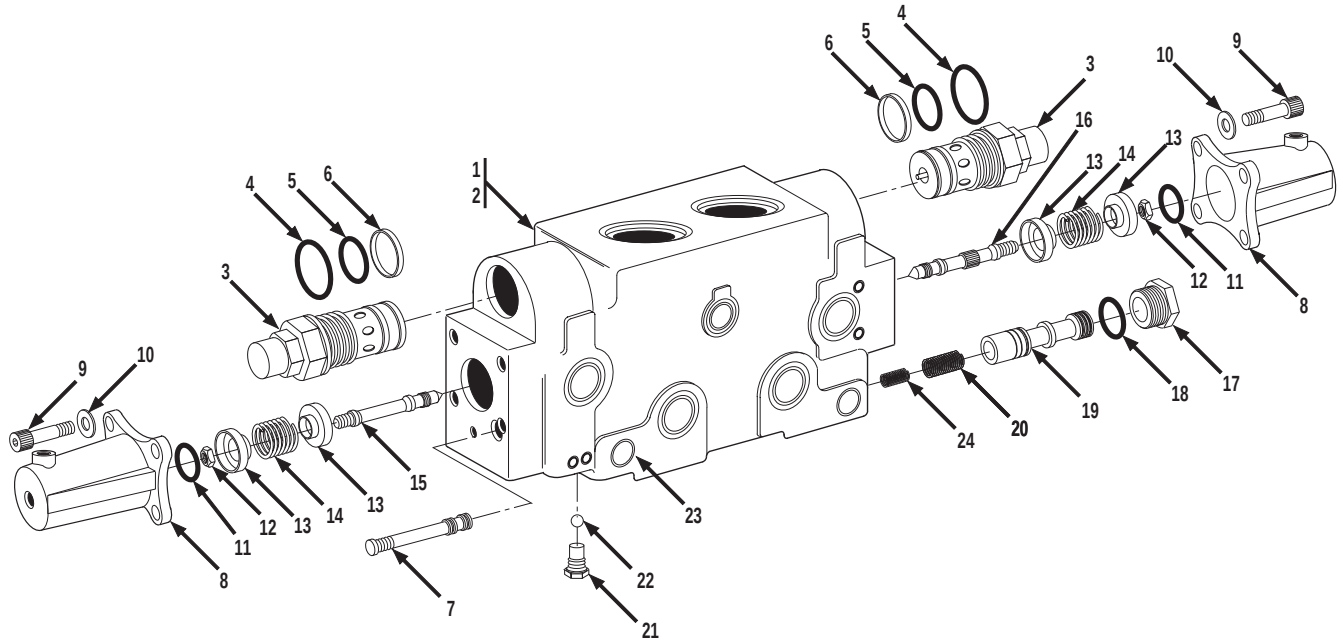
Item	Part No.	Qty.	Description Of Part
	8023-3081	1	COMBINATION VALVE ASSY, (includes all items)
1		1	VALVE BODY
2	8023-4193	2	SOLENOID VALVE ASSY
3	8023-4045	2	SEAL KIT
4	8023-4046	1	SWING BRAKE SOLENOID VALVE ASSY
5	8023-4047	1	SEAL KIT
6	8023-4048	1	SHUTTLE ASSY
7	8023-4049	1	SEAL KIT
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

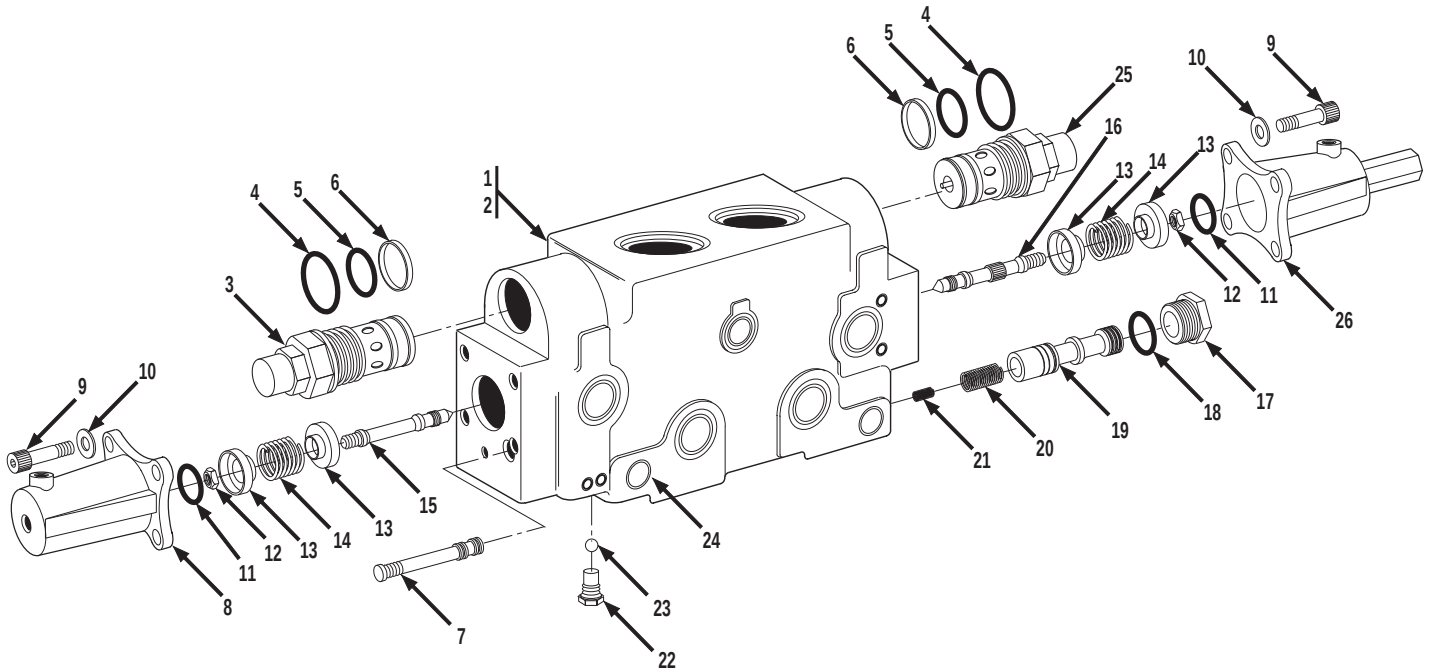
HYDRAULIC SYSTEM COMPONENTS
(8023-3167)Tool, Hoist & Propel Hydraulic Valve Assembly
(8023-3168)Tool, Hoist, Propel & Auxiliary Hydraulic Valve Assembly
Starting Serial No. 0232412
Original Issue 8-99



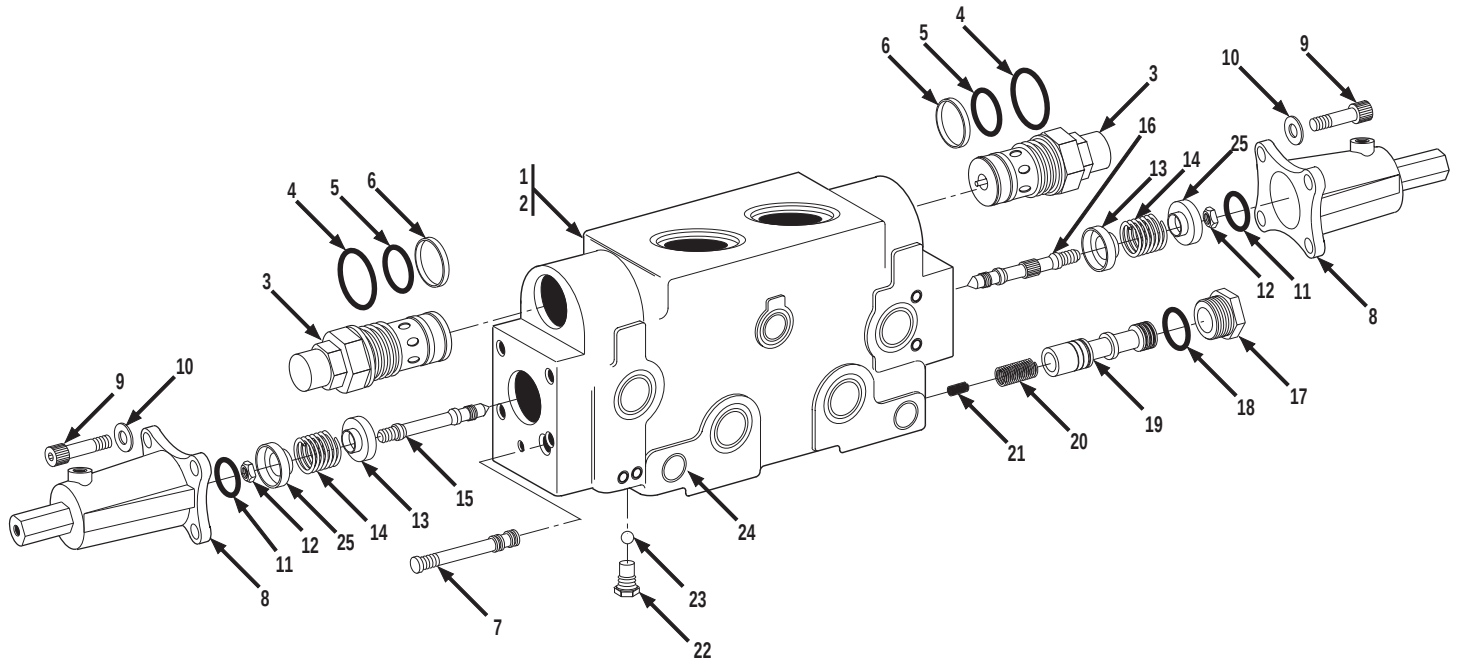
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8023-3167	1	TOOL, HOIST & PROPEL HYDRAULIC CONTROL VALVE ASSY, (includes all items except item 5)	9	8023-4057	4	O-RING
	8023-3168	1	TOOL, HOIST, PROPEL & AUXILIARY HYDRAULIC CONTROL VALVE ASSY, (includes all items)	10	8023-4058	5	O-RING
	8023-3079	1	FACE SEAL & STUD KIT, (includes items 7, 8, 10, 11, 12, 13 & 14)	11	8093-4321	5	O-RING
	8023-3080	1	SEAL KIT, (includes item 9)	12	8023-4084	3	STUD, (8023-3167 ONLY), (not included in face seal & stud kit)
	8023-4177	1	INLET COVER		8023-4059	3	STUD, (8023-3168 ONLY), (included in face seal & stud kit)
		Ref	OFF-HIGHWAY PROPEL VALVE SECTION ASSY, (see page UP4-20 for details)	13	8023-4160	6	LOCKWASHER
		Ref	HOIST VALVE SECTION ASSY, (see page UP4-19 for details)	14	8023-4060	6	HEX NUT
		Ref	TOOL VALVE SECTION ASSY, (see page UP4-18 for details)	15	8023-4061	1	COVER
2		Ref	AUXILIARY VALVE SECTION ASSY, (see page UP4-21 for details), (optional)	16	8063-4024	1	EXPANSION PLUG
	8023-4055	1	END COVER ASSY, (includes items 15 thru 22)	17	8023-4062	1	REGULATOR PLUG ASSY, (includes item 18), (lubricate & torque to 16 ft. lbs.)
7	8093-4324	5	ROUND SHIM	18		1	O-RING
8	8023-4056	10	O-RING	19	8023-4063	1	REGULATOR SPRING
				20	8023-4064	1	SOCKET HD CAPSCREW, (lubricate & torque to 40 in. lbs.)
				21	8023-4065	1	FLAT WASHER
				22		1	SPOOL
							NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.



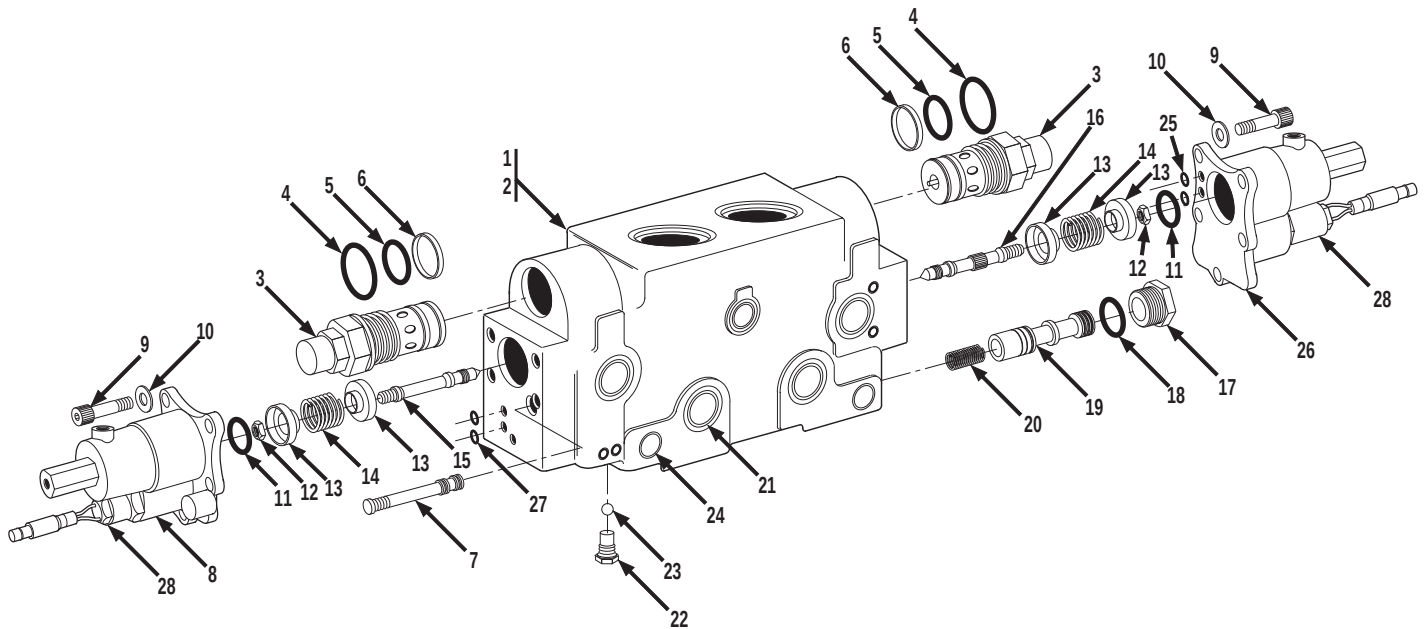
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-4181	1	TOOL VALVE SECTION ASSY, (includes all items)	12	8093-4333	2	HEX NUT, (loctite & torque to 8 ft. lbs.)
	8093-4495	1	RELIEF VALVE SEAL KIT, (includes items 4, 5 & 6)	13	8093-4334	4	SPRING RETAINER
1		1	BODY	14	8023-4091	2	SPRING
2		1	SPOOL	15	8093-4336	1	SOLENOID COUPLING
3	8063-4055	2	RELIEF VALVE ASSY, (includes items 4, 5 & 6), (lubricate & torque to 50 ft. lbs.), (4100 psi)	16	8093-4379	1	SOLENOID COUPLING
4		2	O-RING, (large)	17	8392-4120	1	LOAD CHECK PLUG, (includes item 18), (lubricate & torque to 50 ft. lbs.)
5		2	O-RING, (small)	18		1	O-RING
6		2	BACK-UP RING	19	8023-4086	1	COMPENSATOR SPOOL ASSY
7	8023-4089	1	PRIMARY HOUSING ASSY, (lubricate & torque to 10 ft. lbs.)	20	8023-4087	1	SPRING
8	8093-4368	2	ACTUATOR HOUSING	21	8093-4344	1	SHUTTLE PLUG & SEAT ASSY, (lubricate & torque to 10 ft. lbs.)
9	8093-4330	4	SOCKET HD CAPSCREW, (lubricate & torque to 6 ft. lbs.)	22	8093-4343	1	BALL
10	8023-4090	4	LOCKWASHER	23	8063-4024	1	EXPANSION PLUG
11	8023-4085	2	O-RING	24	8023-4080	1	COMPENSATOR SPRING
				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-4182	1	HOIST VALVE SECTION ASSY, (includes all items)	13	8093-4334	4	SPRING RETAINER
	8093-4495	1	RELIEF VALVE SEAL KIT, (includes items 4, 5 & 6)	14	8023-4091	2	SPRING
1		1	BODY	15	8093-4336	1	SOLENOID COUPLING
2		1	SPOOL	16	8093-4379	1	SOLENOID COUPLING
3	8063-4055	1	RELIEF VALVE ASSY, (includes items 4, 5 & 6), (lubricate & torque to 50 ft. lbs.), (4100 psi)	17	8392-4120	1	LOAD CHECK PLUG, (includes item 18), (lubricate & torque to 50 ft. lbs.)
4		2	O-RING, (large)	18		1	O-RING
5		2	O-RING, (small)	19	8023-4092	1	COMPENSATOR SPOOL ASSY
6		2	BACK-UP RING	20	8023-4087	1	SPRING
7	8023-4089	1	PRIMARY HOUSING ASSY, (lubricate & torque to 10 ft. lbs.)	21	8023-4080	1	SPRING
8	8093-4368	1	ACTUATOR HOUSING	22	8093-4344	1	SHUTTLE PLUG & SEAT ASSY
9	8093-4330	4	SOCKET HD CAPSCREW, (lubricate & torque to 6 ft. lbs.)	23	8093-4343	1	BALL
10	8023-4090	4	LOCKWASHER	24	8063-4024	1	EXPANSION PLUG
11	8023-4085	2	O-RING	25	8023-4094	1	RELIEF VALVE ASSY, (includes items 4, 5 & 6), (lubricate & torque to 50 ft. lbs.), (1750 psi)
12	8093-4333	2	HEX NUT, (loctite & torque to 8 ft. lbs.)	26	8023-4093	1	ACTUATOR HOUSING ASSY
				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

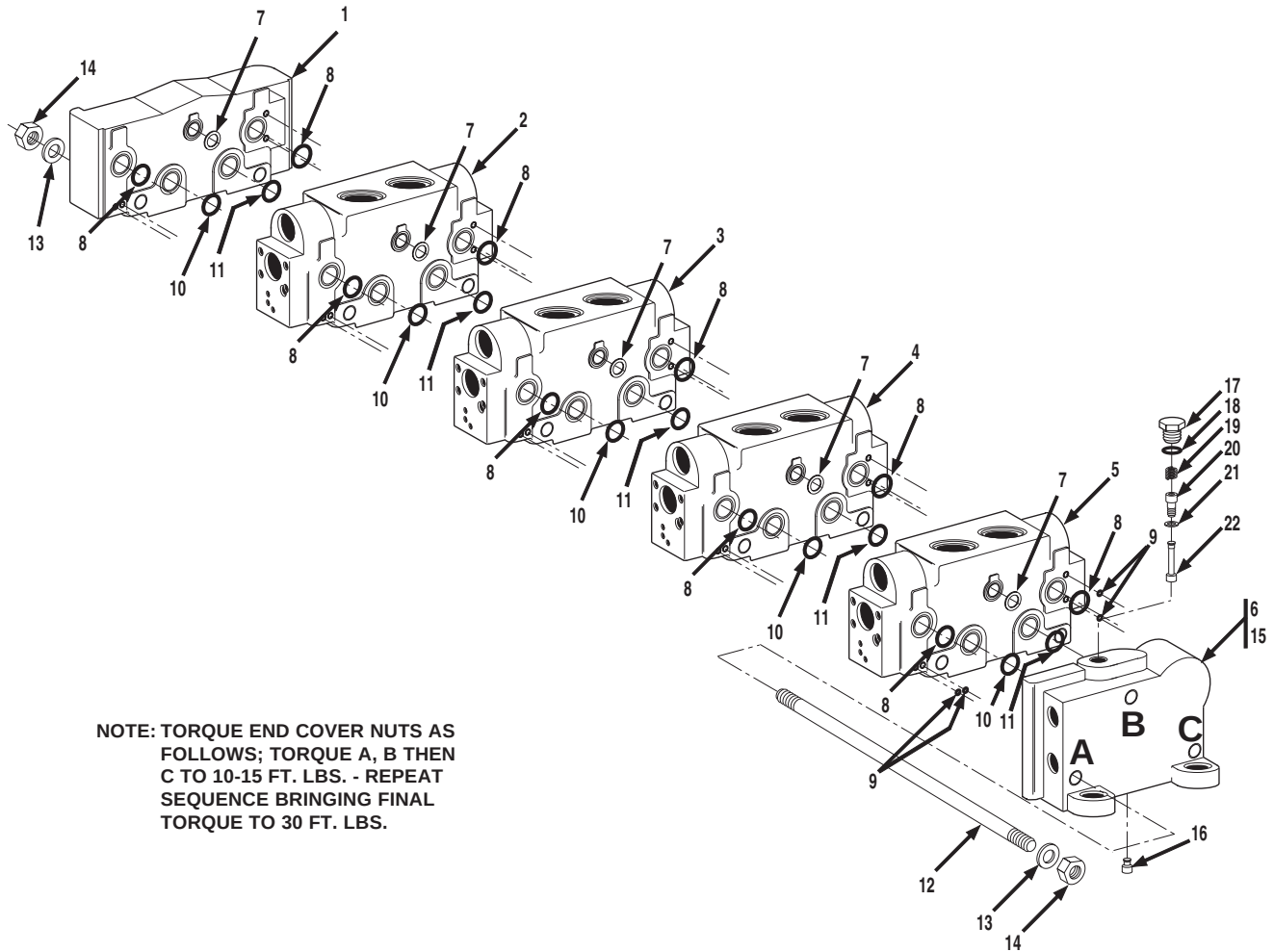


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-4183	1	OFF-HIGHWAY PROPEL VALVE SECTION ASSY, (includes all items)	12	8093-4333	2	HEX NUT, (loctite & torque to 8 ft. lbs.)
	8093-4495	1	RELIEF VALVE SEAL KIT, (includes items 4, 5 & 6)	13	8093-4334	2	SPRING RETAINER
1		1	BODY	14	8023-4096	2	SPRING
2		1	SPOOL	15	8093-4336	1	SOLENOID COUPLING
3	8023-4129	2	RELIEF VALVE ASSY, (includes items 4, 5 & 6), (lubricate & torque to 50 ft. lbs.)	16	8093-4339	1	SOLENOID COUPLING
4		2	O-RING, (large)	17	8392-4120	1	LOAD CHECK PLUG, (includes item 18), (lubricate & torque to 50 ft. lbs.)
5		2	O-RING, (small)	18		1	O-RING
6		2	BACK-UP RING	19	8023-4130	1	COMPENSATOR SPOOL ASSY
7	8023-4089	1	PRIMARY HOUSING ASSY, (lubricate & torque to 10 ft. lbs.)	20	8023-4087	1	SPRING
8	8023-4093	2	ACTUATOR HOUSING	21	8023-4126	1	SPECIAL PLUG ASSY
9	8093-4330	4	SOCKET HD CAPSCREW, (lubricate & torque to 6 ft. lbs.)	22	8093-4344	1	SHUTTLE PLUG & SEAT ASSY
10	8023-4090	4	LOCKWASHER	23	8093-4343	1	BALL
11	8023-4085	2	O-RING	24	8063-4024	1	EXPANSION PLUG
				25	8063-4054	2	SPRING RETAINER
				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

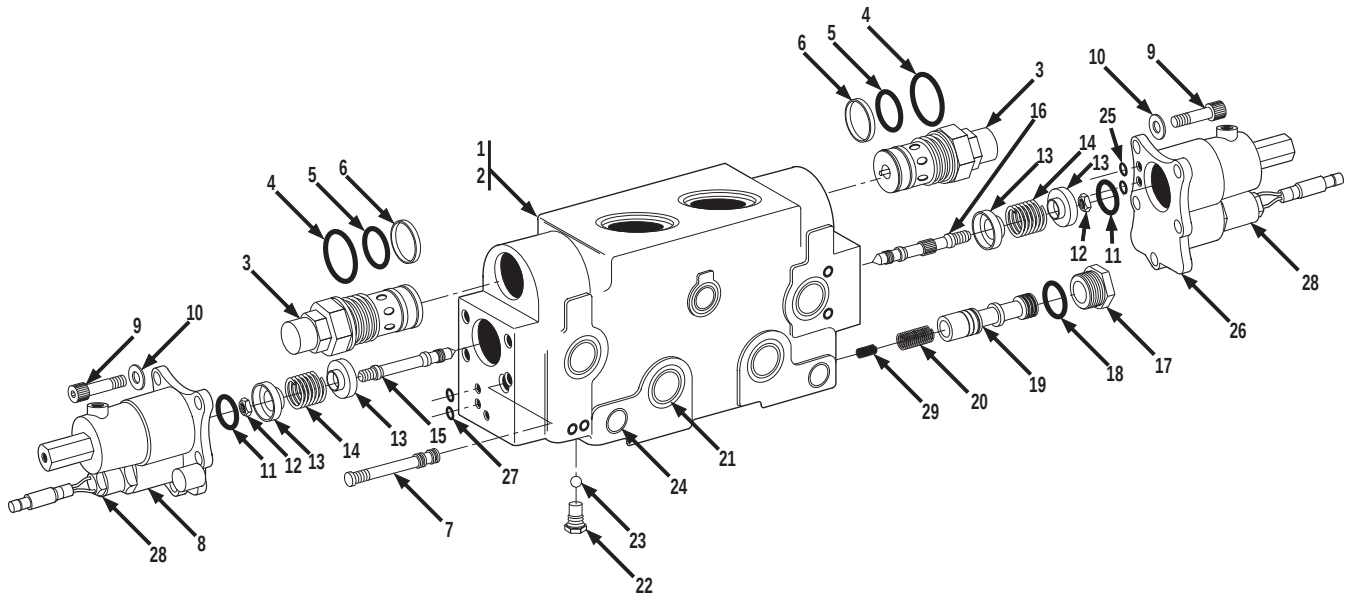


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-4184	1	AUXILIARY VALVE SECTION ASSY, (includes all items)	14	8023-4096	2	SPRING
	8093-4495	1	RELIEF VALVE SEAL KIT, (includes items 4, 5 & 6)	15	8093-4336	1	SOLENOID COUPLING
1		1	BODY	16	8093-4379	1	SOLENOID COUPLING
2		1	SPOOL	17	8392-4120	1	LOAD CHECK PLUG, (includes item 18), (lubricate & torque to 50 ft. lbs.)
3	8093-4378	2	RELIEF VALVE ASSY, (includes items 4, 5 & 6), (lubricate & torque to 50 ft. lbs.) (3000 psi)	18		1	O-RING
4		2	O-RING, (large)	19	8023-4095	1	COMPENSATOR SPOOL ASSY
5		2	O-RING, (small)	20	8023-4087	1	SPRING
6		2	BACK-UP RING	21	8063-4024	1	EXPANSION PLUG
7	8023-4089	1	PRIMARY HOUSING ASSY, (lubricate & torque to 10 ft. lbs.)	22	8093-4344	1	SHUTTLE PLUG & SEAT ASSY
*8	8023-4098	1	SOLENOID HOUSING	23	8093-4343	1	BALL
9	8023-4099	5	SOCKET HD CAPSCREW, (lubricate & torque to 6 ft. lbs.)	24	8063-4042	1	EXPANSION PLUG
10	8023-4090	5	LOCKWASHER	25	8093-4385	2	O-RING
11	8023-4085	2	O-RING	26	8023-4097	1	SOLENOID HOUSING
12	8093-4333	2	HEX NUT, (loctite & torque to 8 ft. lbs.)	27	8023-4100	2	O-RING
13	8093-4334	4	SPRING RETAINER	28	8093-4490	2	ELECTRIC VALVE, (lubricate & torque to 8 ft. lbs.)
				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

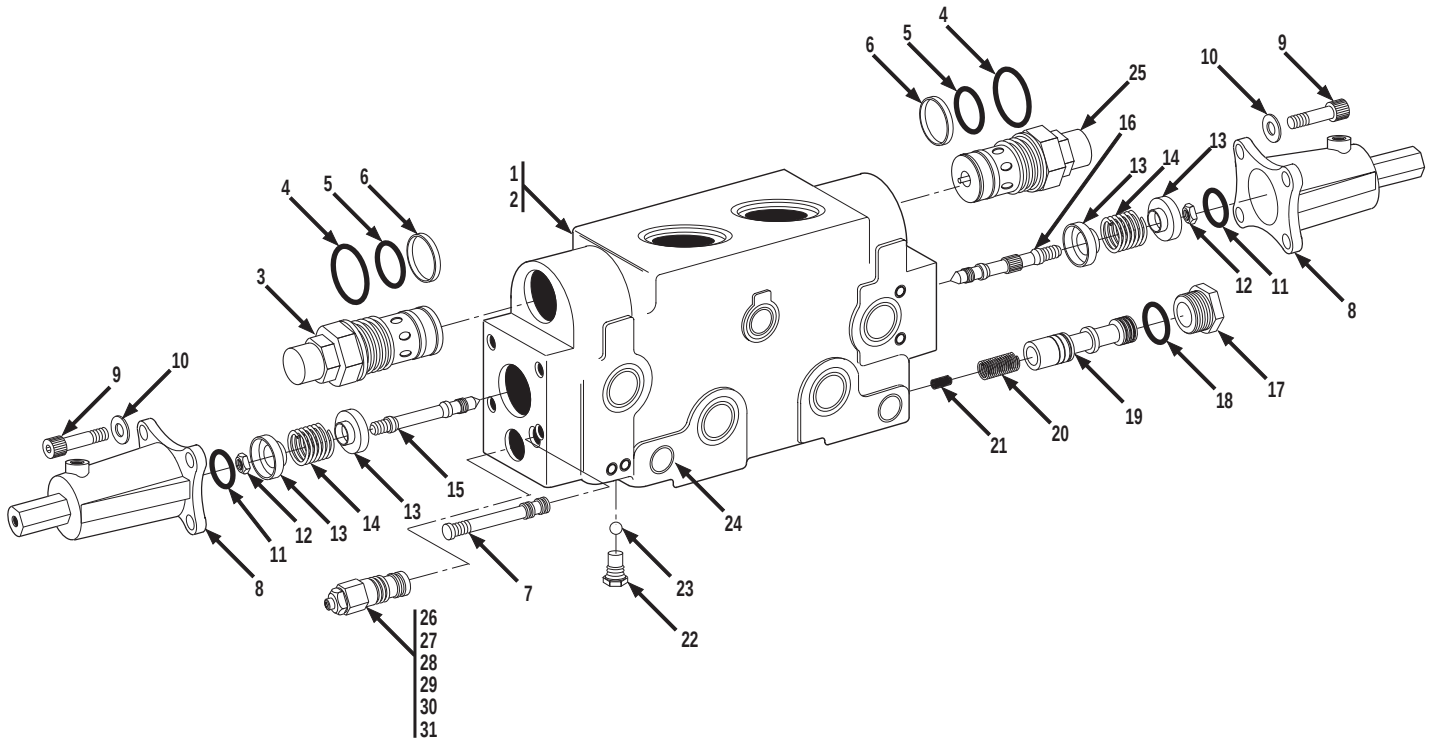
* - Changed part number on item 8.



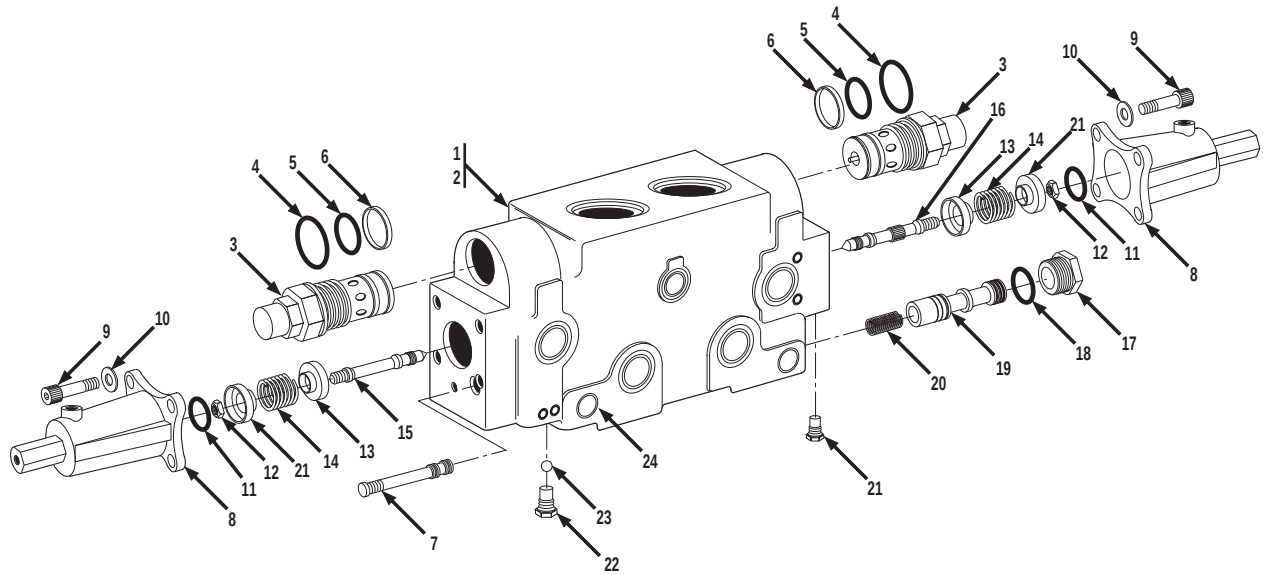
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8023-3166	1	TILT, BOOM, SWING & PROPEL HYDRAULIC CONTROL VALVE ASSY, (includes all items)	10	8023-4058	5	O-RING
	8023-3079	1	FACE SEAL KIT, (includes items 7, 8, 10, 11, 12, 13 & 14)	11	8093-4321	5	O-RING
	8023-3080	1	SEAL KIT, (includes item 9)	12	8023-4059	3	STUD
	8023-4177	1	INLET COVER	13	8093-4160	6	LOCKWASHER
				14	8023-4060	6	HEX NUT
2		Ref	ON-HIGHWAY PROPEL VALVE SECTION ASSY, (see page UP4-25 for details)	15	8023-4061	1	COVER
3		Ref	SWING VALVE SECTION ASSY, (see page UP4-26 for details)	16	8063-4024	1	EXPANSION PLUG
4		Ref	BOOM VALVE SECTION ASSY, (see page UP4-24 for details)	17	8023-4062	1	REGULATOR PLUG ASSY, (includes item 18), (lubricate & torque to 16 ft. lbs.)
5		Ref	TILT VALVE SECTION ASSY, (see page UP4-23 for details)	18		1	O-RING
6	8023-4055	1	END COVER ASSY, (includes items 15 thru 22)	19	8023-4063	1	REGULATOR SPRING
7	8093-4324	5	ROUND SHIM	20	8023-4064	1	SOCKET HD CAPSCREW, (lubricate & torque to 40 in. lbs.)
8	8023-4056	10	O-RING	21	8023-4065	1	FLAT WASHER
9	8023-4057	4	O-RING	22		1	SPOOL
				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			



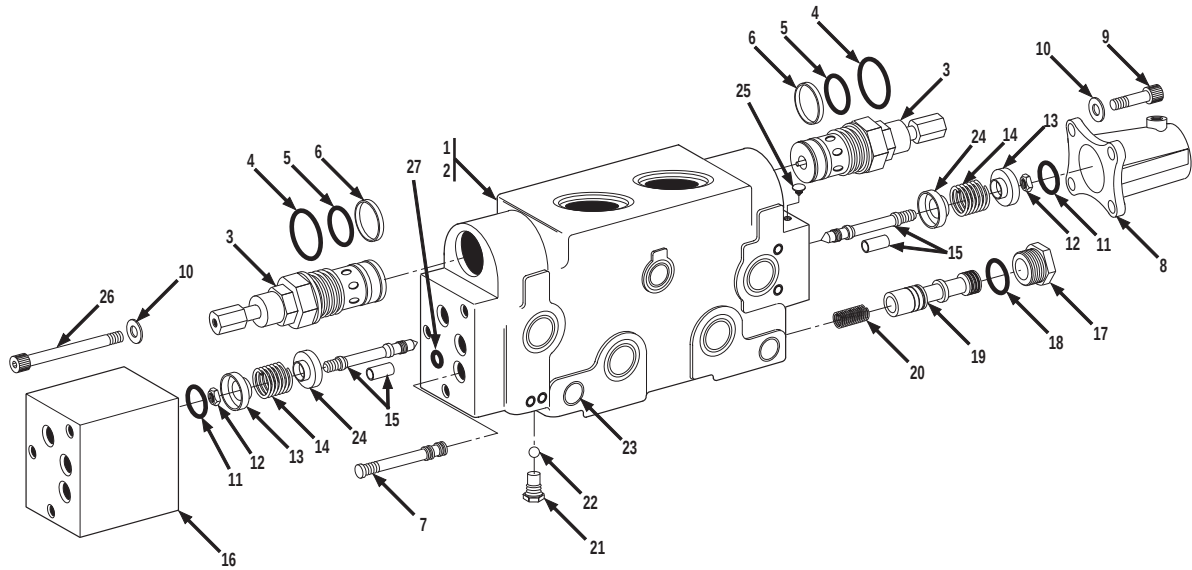
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-4185	1	TILT VALVE SECTION ASSY, (includes all items)	14	8023-4096	2	SPRING
	8093-4495	1	RELIEF VALVE SEAL KIT, (includes items 4, 5 & 6)	15	8093-4336	1	SOLENOID COUPLING
1		1	BODY	16	8093-4379	1	SOLENOID COUPLING
2		1	SPOOL	17	8392-4120	1	LOAD CHECK PLUG, (includes item 18), (lubricate & torque to 50 ft. lbs.)
3	8023-4122	2	RELIEF VALVE ASSY, (includes items 4, 5 & 6), (lubricate & torque to 50 ft. lbs.) (1800 psi)	18		1	O-RING
4		2	O-RING, (large)	19	8023-4101	1	COMPENSATOR SPOOL ASSY
5		2	O-RING, (small)	20	8023-4087	1	SPRING
6		2	BACK-UP RING	21	8063-4024	1	EXPANSION PLUG
7	8023-4089	1	PRIMARY HOUSING ASSY, (lubricate & torque to 10 ft. lbs.)	22	8093-4344	1	SHUTTLE PLUG & SEAT ASSY
8	8093-4103	1	SOLENOID HOUSING	23	8093-4343	1	BALL
9	8023-4104	5	SOCKET HD CAPSCREW, (lubricate & torque to 6 ft. lbs.)	24	8063-4042	1	EXPANSION PLUG
10	8023-4090	5	LOCKWASHER	25	8093-4385	2	O-RING
11	8023-4085	2	O-RING	26	8023-4102	1	SOLENOID HOUSING
12	8093-4333	2	HEX NUT, (loctite & torque to 8 ft. lbs.)	27	8023-4106	2	O-RING
13	8093-4334	4	SPRING RETAINER	28	8093-4382	2	ELECTRIC VALVE, (lubricate & torque to 8 ft. lbs.)
				29	8023-4080	1	SPRING
				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			



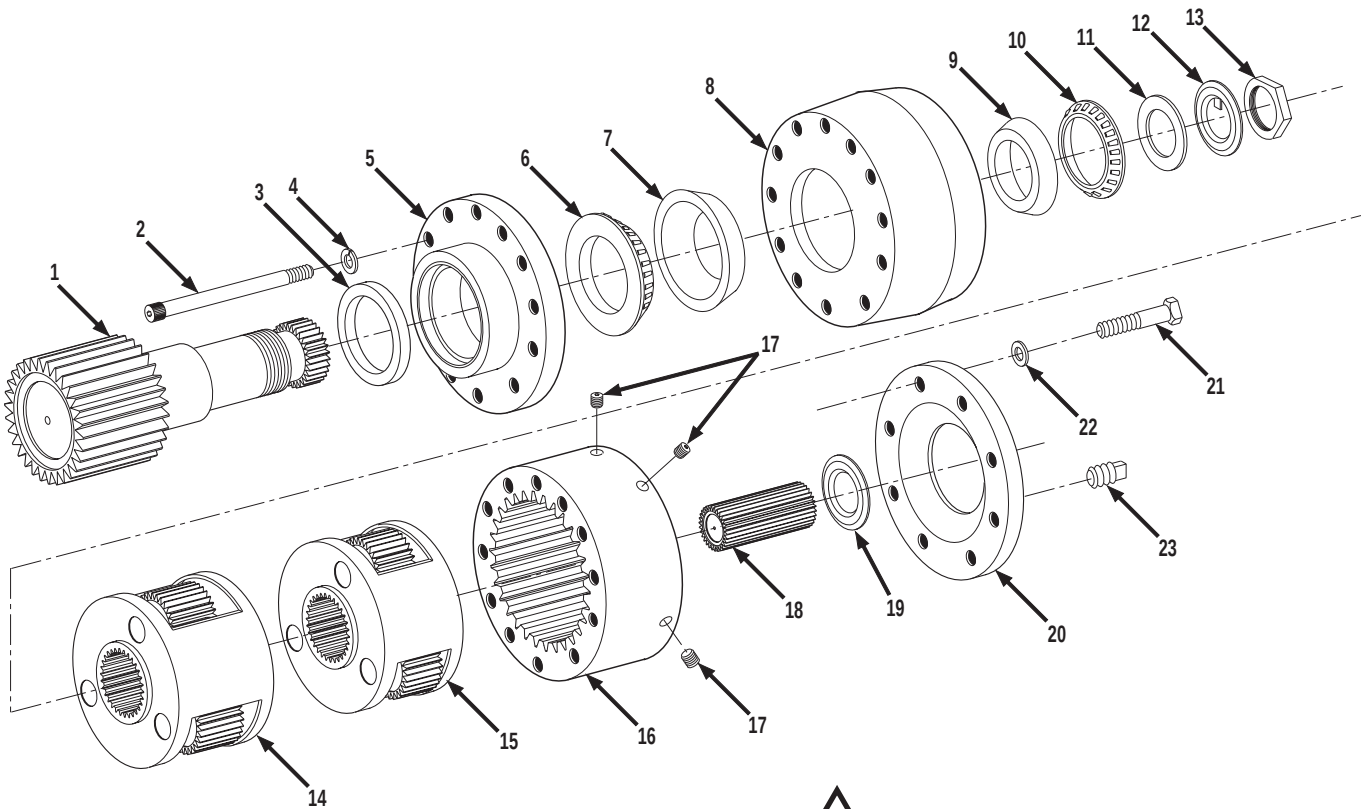
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-4186	1	BOOM VALVE SECTION ASSY, (includes all items)	17	8392-4120	1	LOAD CHECK PLUG, (includes item 18), (lubricate & torque to 50 ft. lbs.)
	8093-4495	1	RELIEF VALVE SEAL KIT, (includes items 4, 5 & 6)	18		1	O-RING
1		1	BODY	19	8023-4107	1	COMPENSATOR SPOOL ASSY
2		1	SPOOL	20	8023-4087	1	SPRING
3	8023-4109	1	RELIEF VALVE ASSY, (includes items 4, 5 & 6), (lubricate & torque to 50 ft. lbs.), (3350 psi)	21	8023-4080	1	SPRING
4		2	O-RING, (large)	22	8093-4344	1	SHUTTLE PLUG & SEAT ASSY
5		2	O-RING, (small)	23	8093-4343	1	BALL
6		2	BACK-UP RING	24	8063-4024	1	EXPANSION PLUG
7	8023-4089	1	PRIMARY HOUSING ASSY, (lubricate & torque to 10 ft. lbs.)	25	8023-4110	1	RELIEF VALVE ASSY, (includes items 4, 5, 6), (lubricate & torque to 50 ft. lb.), (2500 psi)
8	8023-4093	2	ACTUATOR HOUSING	26	8023-4108	1	PRESSURE REGULATING HOUSING ASSY (includes items 28 thru 32)
9	8093-4330	4	SOCKET HD CAPSCREW, (lubricate & torque to 6 ft. lbs.)	27		1	O-RING
10	8023-4090	4	LOCKWASHER	28		1	BACK-UP RING
11	8023-4085	2	O-RING	29		1	O-RING
12	8093-4333	2	HEX NUT, (loctite & torque to 8 ft. lbs.)	30		1	O-RING
13	8093-4334	4	SPRING RETAINER	31		1	O-RING
14	8023-4091	2	SPRING				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.
15	8093-4336	1	SOLENOID COUPLING				
16	8093-4379	1	SOLENOID COUPLING				



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-4187	1	OFF-HIGHWAY PROPEL VALVE SECTION ASSY, (includes all items)	12	8093-4333	2	HEX NUT, (loctite & torque to 8 ft. lbs.)
	8093-4495	1	RELIEF VALVE SEAL KIT, (includes items 4, 5 & 6)	13	8093-4334	2	SPRING RETAINER
1		1	BODY	14	8023-4091	2	SPRING
2		1	SPOOL	15	8093-4336	1	SOLENOID COUPLING
3	8023-4129	2	RELIEF VALVE ASSY, (includes items 4, 5 & 6), (lubricate & torque to 50 ft. lbs.)	16	8093-4379	1	SOLENOID COUPLING
4		2	O-RING, (large)	17	8392-4120	1	LOAD CHECK PLUG, (includes item 18), (lubricate & torque to 50 ft. lbs.)
5		2	O-RING, (small)	18		1	O-RING
6		2	BACK-UP RING	19	8023-4130	1	COMPENSATOR SPOOL ASSY
7	8023-4089	1	PRIMARY HOUSING ASSY, (lubricate & torque to 10 ft. lbs.)	20	8023-4087	1	SPRING
8	8023-4093	2	ACTUATOR HOUSING	21	8063-4054	2	SPRING RETAINER
9	8093-4330	4	SOCKET HD CAPSCREW, (lubricate & torque to 6 ft. lbs.)	22	8093-4344	1	SHUTTLE PLUG & SEAT ASSY
10	8023-4090	4	LOCKWASHER	23	8093-4343	1	BALL
11	8023-4085	2	O-RING	24	8063-4024	1	EXPANSION PLUG
				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

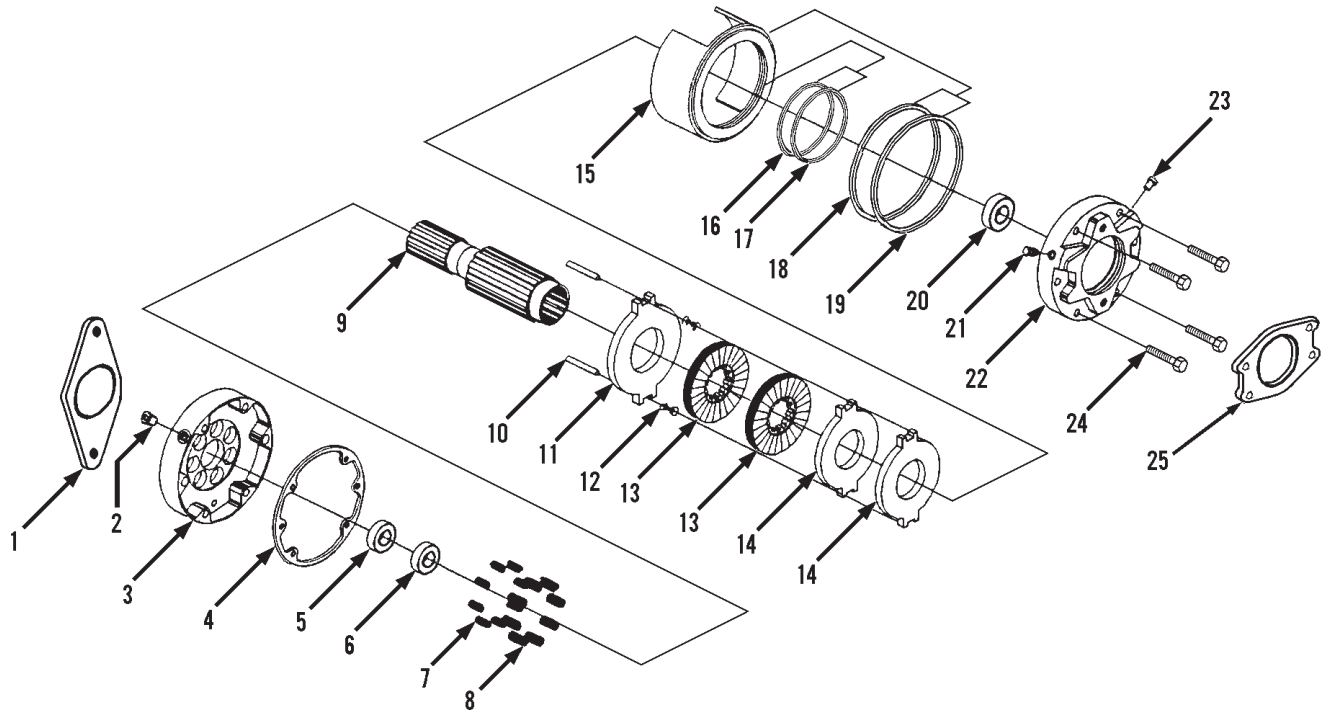


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-4188	1	SWING VALVE SECTION ASSY, (includes all items)	14	8023-4091	2	SPRING
	8093-4495	1	RELIEF VALVE SEAL KIT, (includes items 4, 5 & 6)	15	8023-4124	1	SPACER
1		1	BODY	16	8023-4128	1	HYDRAULIC REMOTE HOUSING ASSY
2		1	SPOOL	17	8392-4120	1	LOAD CHECK PLUG, (includes item 18), (lubricate & torque to 50 ft. lbs.)
3	8023-4122	2	RELIEF VALVE ASSY, (includes items 4, 5 & 6), (lubricate & torque to 50 ft. lbs.)	18		1	O-RING
4		2	O-RING, (large)	19	8023-4125	1	COMPENSATOR SPOOL ASSY
5		2	O-RING, (small)	20	8023-4087	1	SPRING
6		2	BACK-UP RING	21	8093-4344	1	SHUTTLE PLUG & SEAT ASSY
7	8023-4123	1	PRIMARY HOUSING ASSY, (lubricate & torque to 10 ft. lbs.)	22	8093-4343	1	BALL
8	8093-4368	2	ACTUATOR HOUSING	23	8063-4024	1	EXPANSION PLUG
9	8093-4330	2	SOCKET HD CAPSCREW, (lubricate & torque to 6 ft. lbs.)	24	8093-4334	2	SPRING RETAINER
10	8023-4090	4	LOCKWASHER	25	8023-4126	1	SPECIAL PLUG, (lubricate & torque to 3 ft. lbs.)
11	8023-4085	2	O-RING	26	8023-4127	3	SOCKET HD CAPSCREW, (lubricate & torque to 6 ft. lbs.)
12	8093-4333	2	HEX NUT, (loctite & torque to 6 ft. lbs.)	27	8023-4189	2	O-RING
13	8093-4021	2	SPRING RETAINER				NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.

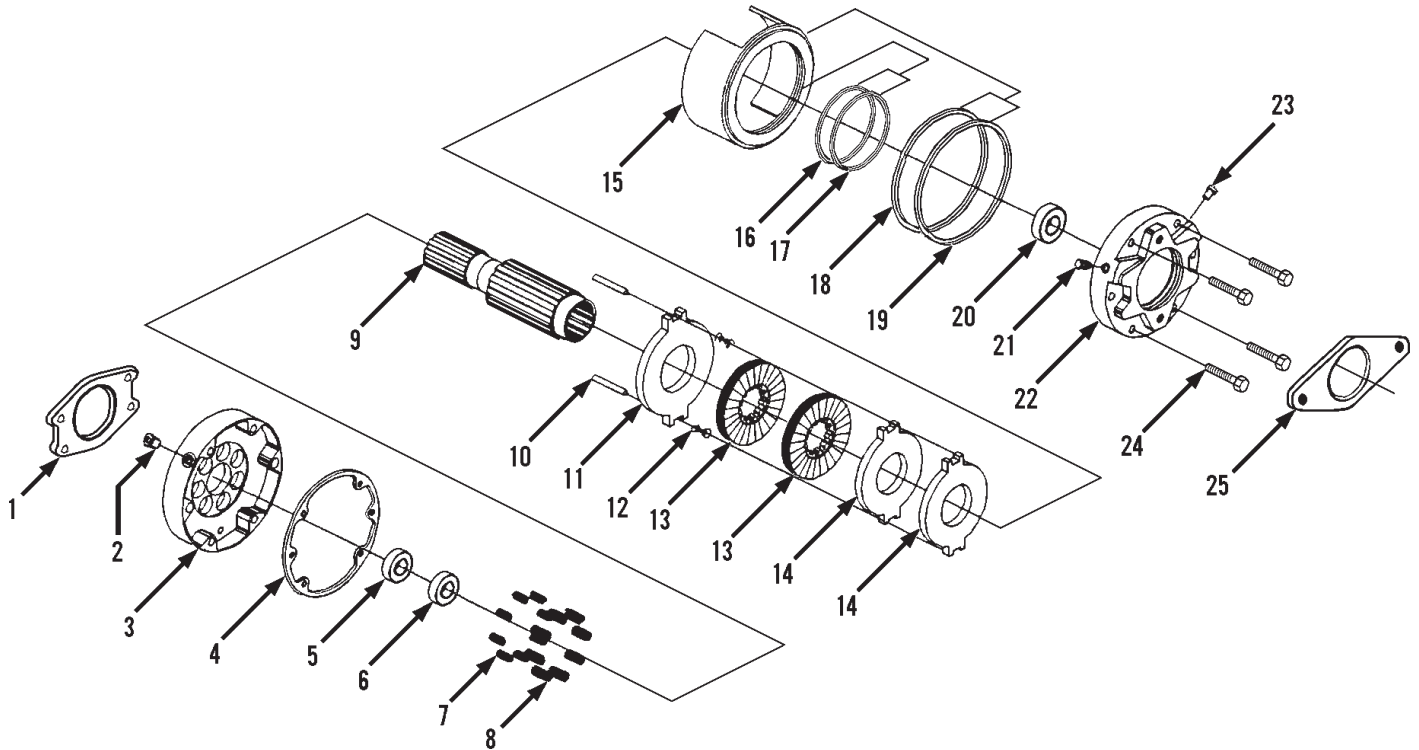


NOTE:
INSTALL THRUSTWASHER, (ITEM 11), AND HEX NUT, (ITEM 13), DO NOT INSTALL LOCKWASHER AT THIS TIME! TORQUE NUT UNTIL A ROLLING TORQUE OF 42-50 FT. LBS. (WITH BOOT SEAL), OR 38-46 FT. LBS. (WITHOUT BOOT SEAL) IS REACHED.
REMOVE NUT AND INSTALL LOCKWASHER; RE-TORQUE TO 60-70 FT. LBS.
SECURE LOCKNUT BY BENDING A LOCKWASHER TAB INTO ONE OF FOUR LOCKNUT SLOTS.

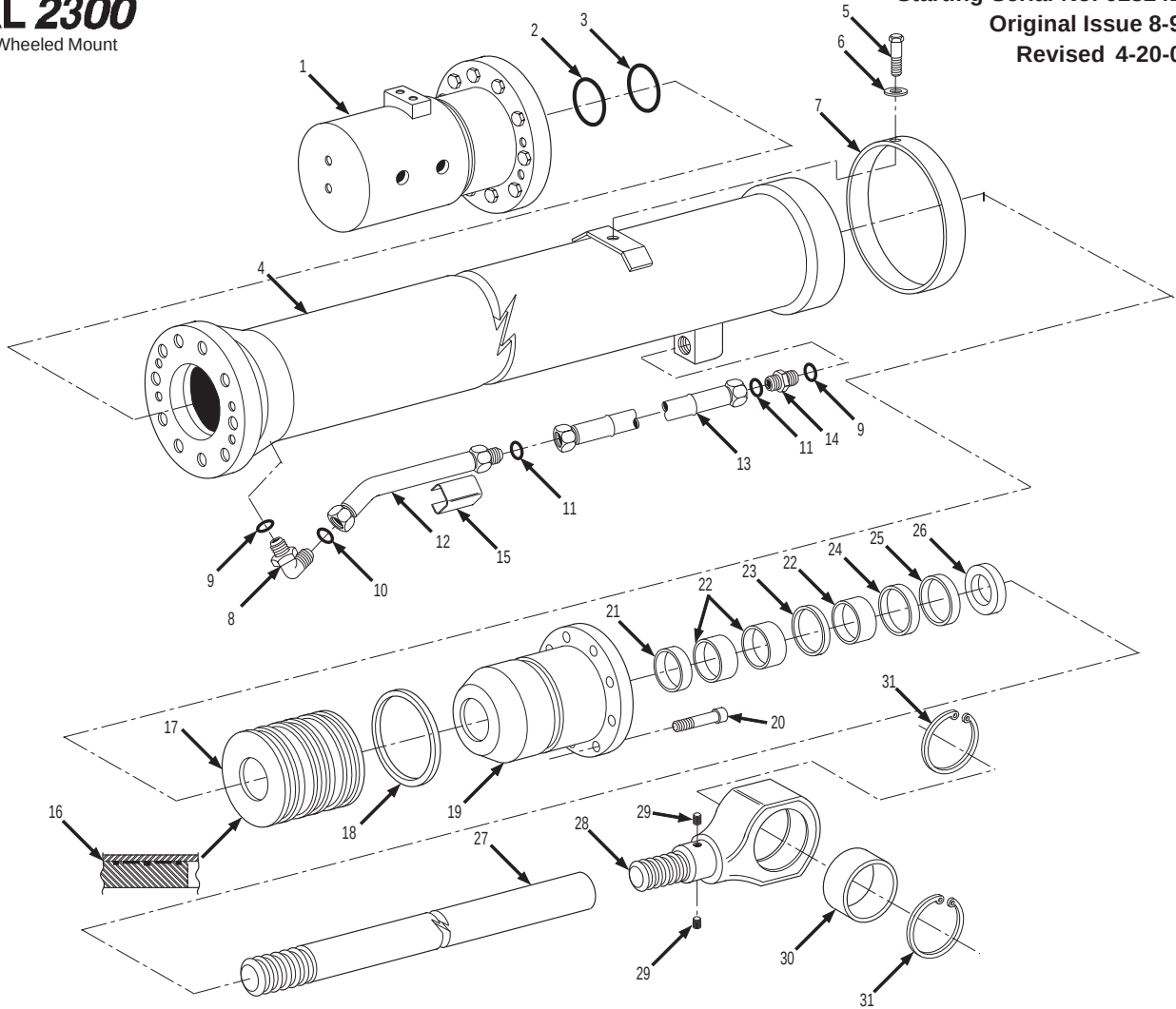
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8022-3041	1	TILT TRANSMISSION ASSY, (includes all items)	13	8022-4025	1	HEX LOCKNUT
1	8022-4013	1	OUTPUT SHAFT	14	8022-4026	1	SECONDARY CARRIER ASSY
2	8022-4014	12	SOCKET HD CAPSCREW, (lubricate & torque to 67-70 ft. lbs.)	15	8022-4027	1	PRIMARY CARRIER ASSY
3	8022-4015	1	OIL SEAL	16	8022-4028	1	GEAR RING
4	8022-4016	12	FLAT WASHER	17	9104-4108	4	PLUG, (lubricate & torque to 4-8 ft. lbs.)
5	8022-4017	1	FLANGE HUB	18	8022-4029	1	SUN GEAR
6	8022-4018	1	BEARING CONE	19	8022-4030	1	THRUSTWASHER
7	8022-4019	1	BEARING CUP	20	8022-4031	1	COVER
8	8022-4020	1	HUB	21	8022-4032	8	HEX HD CAPSCREW, (lubricate & torque to 16-21 ft. lbs.)
9	8022-4021	1	BEARING CUP	22	8022-4033	8	FLAT WASHER
10	8022-4022	1	BEARING CONE	23	9104-4101	22	PIPE PLUG, (lubricate & torque to 15-45 ft. lbs.)
11	8022-4023	1	THRUSTWASHER				
12	8022-4024	1	LOCKWASHER				



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8022-3050	1	TILT BRAKE ASSY, (includes all items)	9	8024-4007	1	SPLINED SHAFT
	8024-4001	1	BEARING KIT, (includes items 5, 6 * 20)	10	8022-4005	2	TORQUE PIN
	8024-4002	1	STACK KIT, (includes items 7, 8, 10, 11, 12, 13 & 14)	11	8022-4006	1	PRIMARY DISC
	8024-4003	1	O-RING KIT, (includes items 16, 17, 18 & 19)	12	7713-4069	2	COMPRESSION SPRING
	7713-4055	1	GASKET KIT, (includes items 1 & 25)	13	8022-4007	2	ROTATING DISC
1	7713-4059	1	GASKET	14	8022-4008	2	STATIONARY DISC
2	8022-4001	1	HEX SOCKET PLUG	15	8022-4009	1	PISTON
3	8024-4006	1	HOUSING	16	7713-4075	1	BACK-UP RING
4	8022-4002	1	GASKET	17	7713-4076	1	O-RING
5	7713-4209	1	BALL BEARING	18	7713-4073	1	BACK-UP RING
6	7713-4210	1	OIL SEAL	19	7713-4074	1	O-RING
7	8022-4003	7	COMPRESSION SPRING	20	8344-1210	1	BALL BEARING
8	8022-4004	6	COMPRESSION SPRING	21	8669-3001	1	BLEEDER SCREW
				22	8022-4010	1	POWER PLATE
				23	7713-4220	1	PROTECTIVE PLUG
				24	8022-4011	4	HEX FLANGE SCREW
				25	8022-4012	1	GASKET



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8022-3069	1	TILT BRAKE ASSY, (includes all items)	8	8022-4004	6	COMPRESSION SPRING
	8024-4001	1	BEARING KIT, (includes items 5, 6 & 20)	9	8024-4007	1	SPLINED SHAFT
	8024-4002	1	STACK KIT, (includes items 7, 8, 10, 11, 12, 13 & 14)	10	8022-4005	2	TORQUE PIN
	8024-4003	1	O-RING KIT, (includes items 16, 17, 18 & 19)	11	8022-4006	1	PRIMARY DISC
	7713-4055	1	GASKET KIT, (includes items 1 & 25)	12	7713-4069	2	COMPRESSION SPRING
	8022-4034	1	SERVICE KIT, (includes items 1, 4, 15, 16, 17, 18, 19 & 25)	13	8022-4007	2	ROTATING DISC
1	8022-4036	1	GASKET	14	8022-4008	2	STATIONARY DISC
2	8022-4001	1	HEX SOCKET PLUG	15	8022-4035	1	PISTON
3	8024-4006	1	HOUSING	16	7713-4075	1	BACK-UP RING
4	8022-4002	1	GASKET	17	7713-4076	1	O-RING
5	7713-4209	1	BALL BEARING	18	7713-4073	1	BACK-UP RING
6	7713-4210	1	OIL SEAL	19	7713-4074	1	O-RING
7	8022-4003	7	COMPRESSION SPRING	20	8344-1210	1	BALL BEARING
				21	8669-3001	1	BLEEDER SCREW
				22	8022-4010	1	POWER PLATE
				23	7713-4220	1	PROTECTIVE PLUG
				24	8022-4011	4	HEX FLANGE SCREW
				25	8022-4012	1	GASKET

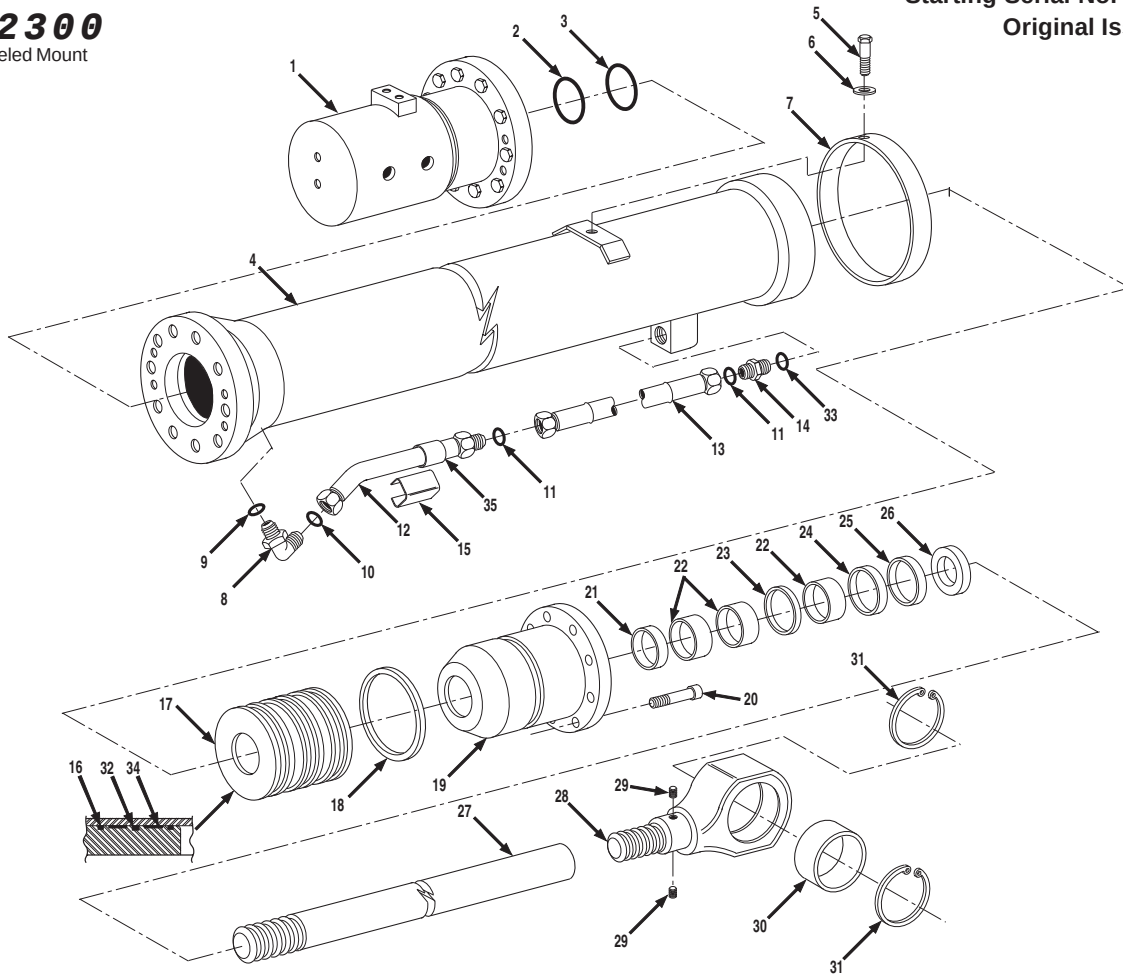


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8000-5036	1	BOOM CYLINDER ASSY, (includes all items except items 1, 2 & 3)	14	8866-2304	1	CONNECTOR, (includes item 9), (torque to 140-146 ft. lbs.)
	8000-3392	1	PACKING KIT, (includes items 16, 18, 21, 22, 23, 24, 25 & 26)	15	8000-1484	3	SUPPORT CLAMP CAP, (use urethane adhesive)
		Ref	TILT GLAND ASSY, (see page UP4-14 for details)	16	8000-3421	1	PISTON PACKING
				17	8000-1435	1	PISTON, (torque to 600 ft. lbs.)
2	9108-3106	1	O-RING	18	8000-3474	1	STATIC SEAL
3	8093-3066	1	O-RING	*19	8000-1605	1	CYLINDER HEAD
4	8000-6048	1	CYLINDER TUBE WELDMENT	20	8821-1109	3	SOCKET HD CAPSCREW, 1/2-13X2, GR8, (lubricate & torque to 100-110 ft. lbs.)
5	8820-1018	1	HEX HD CAPSCREW, 5/16-18X3/4, GR5	21	8000-3408	1	INGESTION BEARING
6	8856-1003	1	FLAT WASHER, 5/16	22	8000-3407	3	ROD BEARING
7	8000-3489	1	STRAP	23	8000-3410	1	BUFFER SEAL
8	8866-2333	1	ELBOW, 90 DEGREES, (includes item 9), (torque to 210-218 ft. lbs.)	24	8000-3411	1	ROD SEAL
9	8859-1209	2	O-RING	25	8000-3443	1	BACK-UP SEAL
10	8859-1509	1	O-RING	26	8000-3475	1	ROD WIPER
11	8859-1508	2	O-RING	27	8000-1383	1	PISTON ROD
12	8000-3485	1	TUBE ASSY, (torque swivel end to 120-128 ft. lbs.)	28	8000-1406	1	ROD EYE
13	8471-9059	1	HOSE ASSY, (torque swivel ends to 90-94 ft. lbs.)	29	8822-1386	2	HEX SOCKET SET SCREW, (half dog point), 3/8-16X1/2
				30	7713-3002	1	RADIAL BEARING
				31	8858-1058	2	SNAP RING

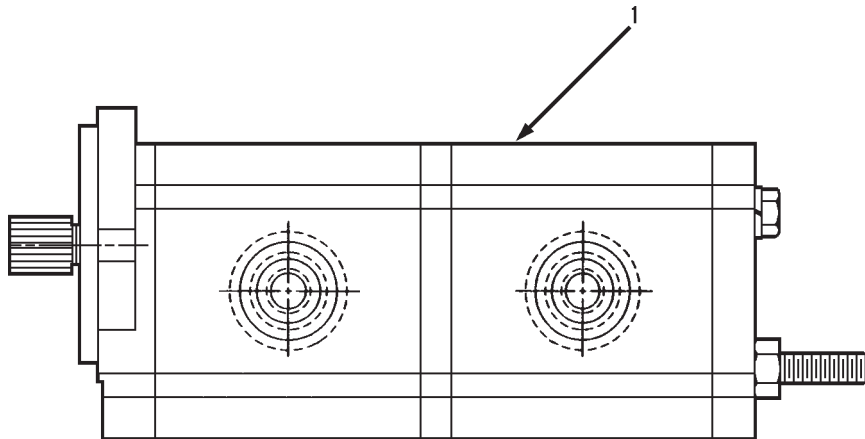
* - Changed part number on item 19.
PCN 980526-TT

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

HYDRAULIC SYSTEM COMPONENTS
(8000-5098) Boom Cylinder Assembly
Starting Serial No. 0236420
Original Issue 4-01

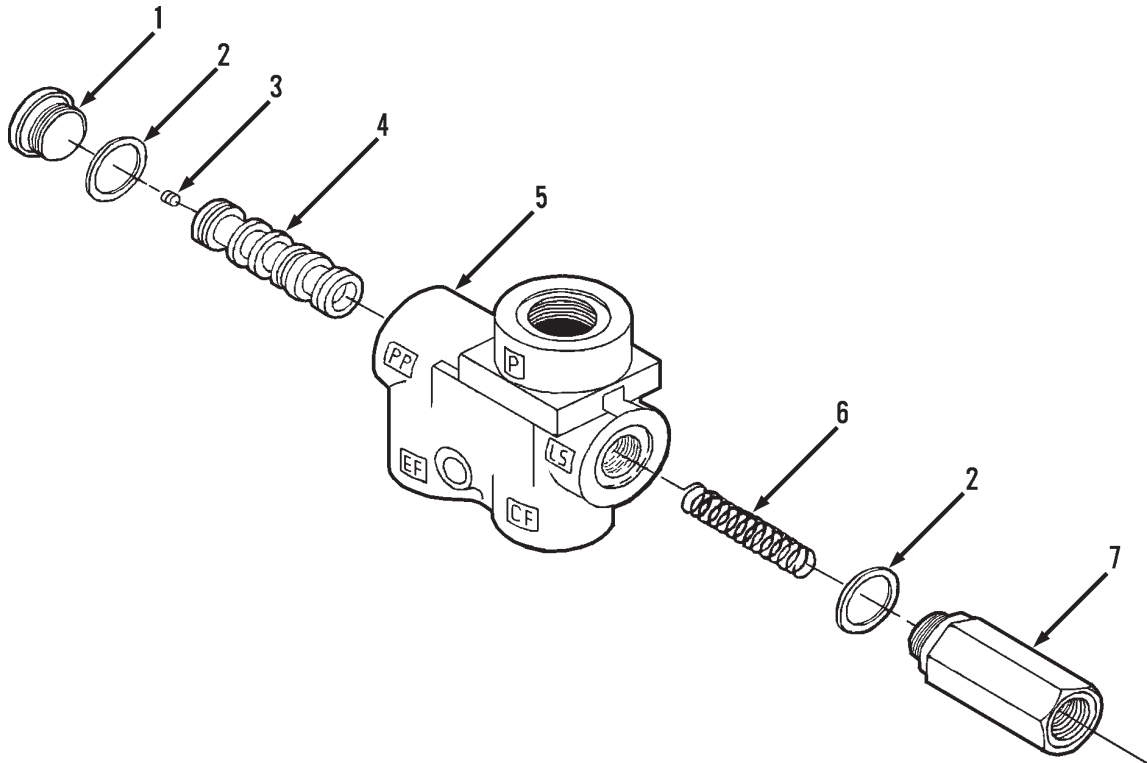


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8000-5098	1	BOOM CYLINDER ASSY, (includes all items except items 1, 2 & 3)	16	8000-3637	2	INGESTION RING
	8000-3392	1	PACKING KIT, (includes items 16, 18, 21 thru 26, 32 & 34)	17	8000-1435	1	PISTON, (torque to 600 ft. lbs.)
		Ref	TILT GLAND ASSY, (see page UP4-14 for details)	18	8000-3474	1	STATIC SEAL
	2	1	O-RING	19	8000-1605	1	CYLINDER HEAD
	3	1	O-RING	20	8821-1109	3	SOCKET HD CAPSCREW, 1/2-13X2, GR8, (lubricate & torque to 100-110 ft. lbs.)
4	8000-6048	1	CYLINDER TUBE WELDMENT	21	8000-3408	1	INGESTION BEARING
5	8820-1018	1	HEX HD CAPSCREW, 5/16-18X3/4, GR5	22	8000-3407	3	ROD BEARING
6	8856-1003	1	FLAT WASHER, 5/16	23	8000-3410	1	BUFFER SEAL
7	8000-3489	1	STRAP	24	8000-3411	1	ROD SEAL
8	8866-2333	1	ELBOW, 90 DEGREES, (includes item 9), (torque to 210-218 ft. lbs.)	25	8000-3443	1	BACK-UP SEAL
9	8859-1209	1	O-RING	26	8000-3475	1	ROD WIPER
10	8859-1509	1	O-RING	27	8000-5126	1	PISTON ROD ASSY, (includes item 17)
11	8859-1508	2	O-RING	28	8000-1406	1	ROD EYE
12	8000-3485	1	TUBE ASSY, (torque swivel end to 120-128 ft. lbs.)	29	8822-1386	2	HEX SOCKET SET SCREW, (half dog point), 3/8-16X1/2
13	8471-9059	1	HOSE ASSY, (torque swivel ends to 90-94 ft. lbs.)	30	7713-3002	1	RADIAL BEARING
14	8866-2304	1	CONNECTOR, (includes item 9), (torque to 140-146 ft. lbs.)	31	8858-1058	2	SNAP RING
15	8000-1484	3	SUPPORT CLAMP CAP, (use urethane adhesive)	32	8000-3635	1	PISTON SEAL
				33	8859-1207	1	O-RING
				34	8000-3636	2	BEARING
				35	8000-3484	6	HOSE



Item	Part No.	Qty.	Description Of Part
1	8023-3146	1	GEAR PUMP ASSY
	8023-4276	1	FRONT PUMP SEAL KIT
	8023-4277	1	REAR PUMP SEAL KIT

* - Added item number to part number 8023-3146.



Item	Part No.	Qty.	Description Of Part
	8023-3133	1	PRIORITY VALVE ASSY, (includes all items)
1	8023-4278	1	PLUG
2	8023-4279	2	SEAL RING
3	8023-4280	1	ORIFICE
4		1	SPOOL
5		1	VALVE BODY
6	8023-4281	1	SPRING
7	8023-4282	1	PLUG
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

GRADALL

HYDRAULIC EXCAVATOR
Upperstructure

XL2300

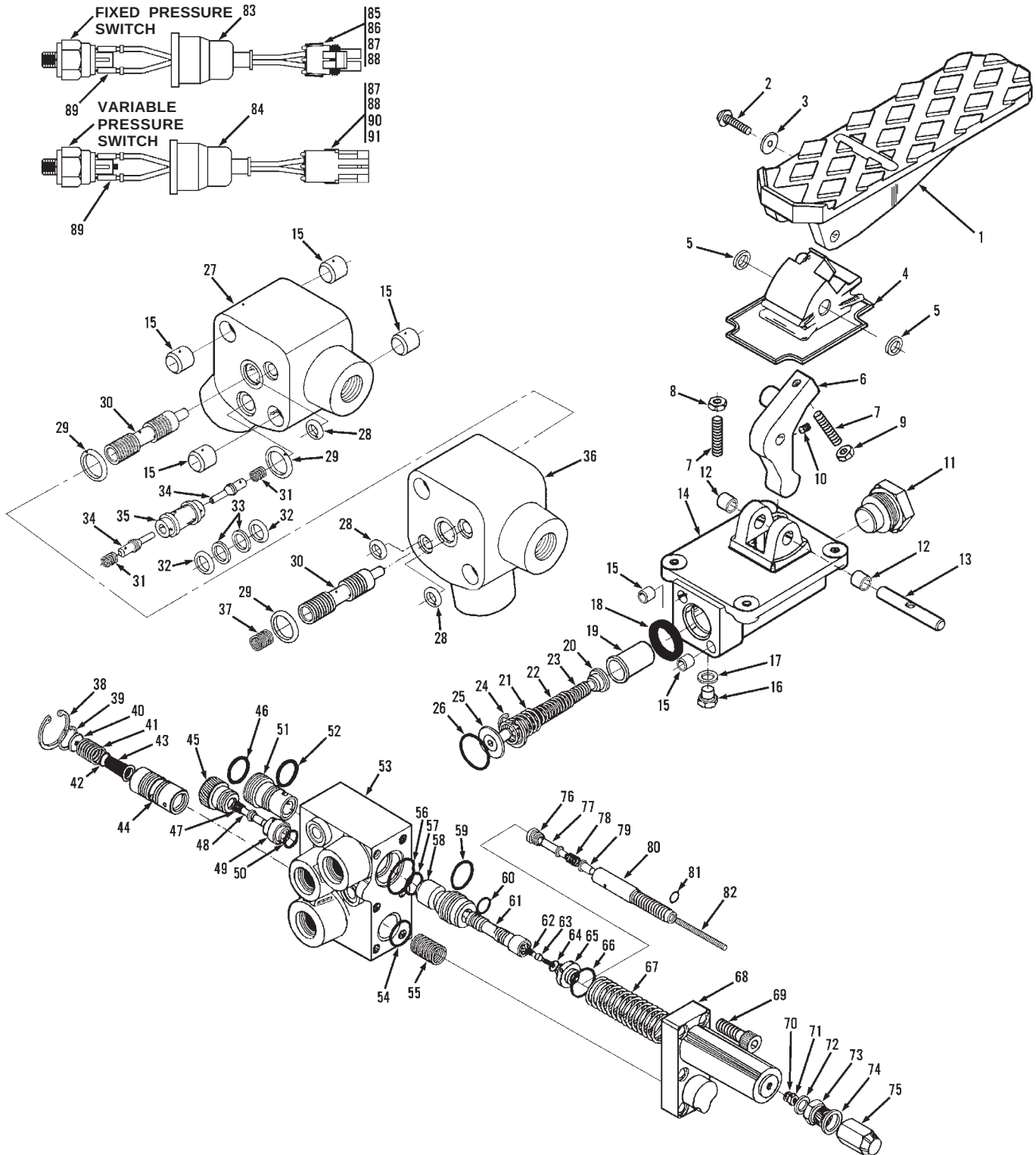
Wheeled Mount

HYDRAULIC SYSTEM COMPONENTS

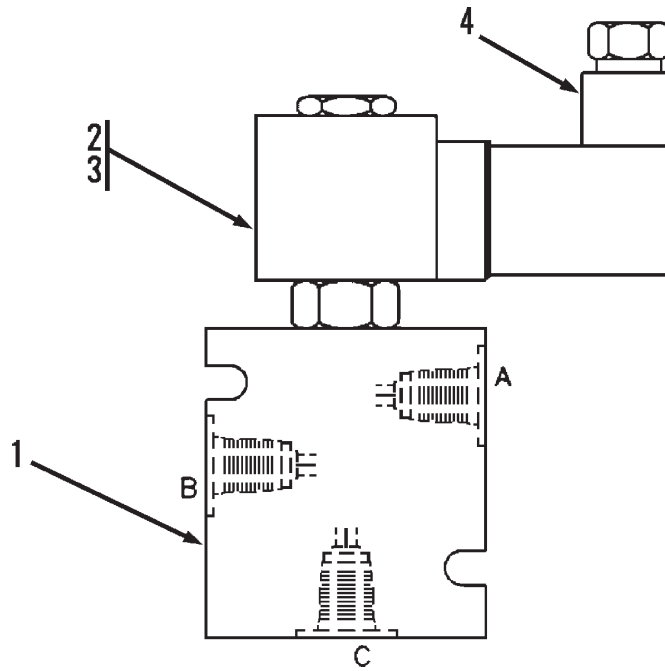
(8023-3135) Brake Valve Assembly

Starting Serial No. 0232412

Original Issue 8-99



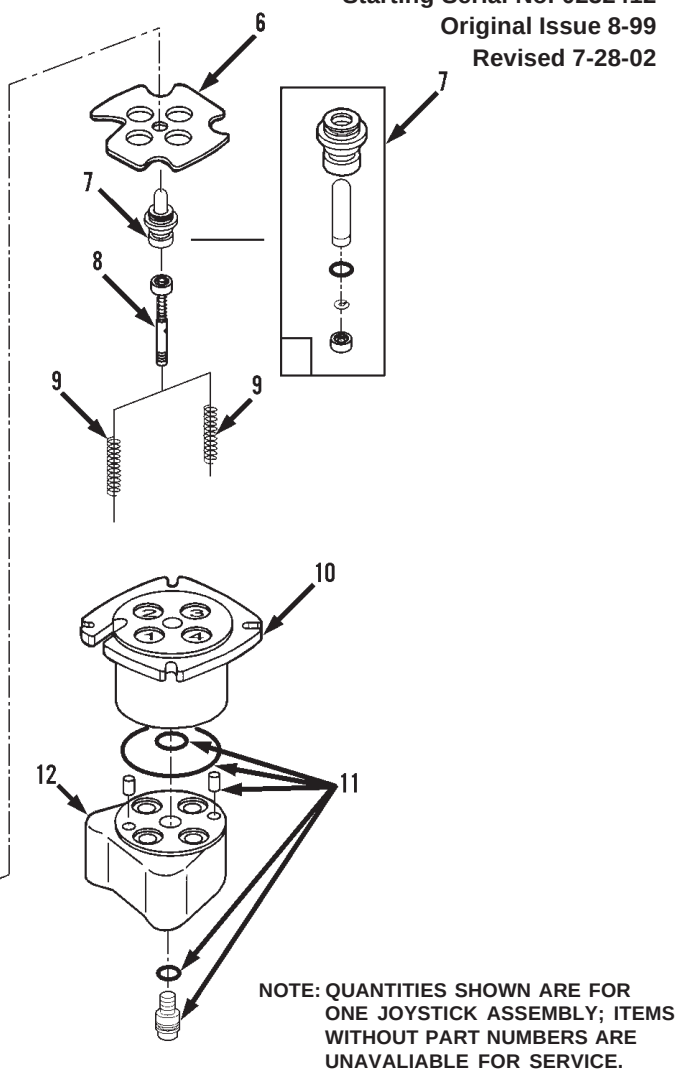
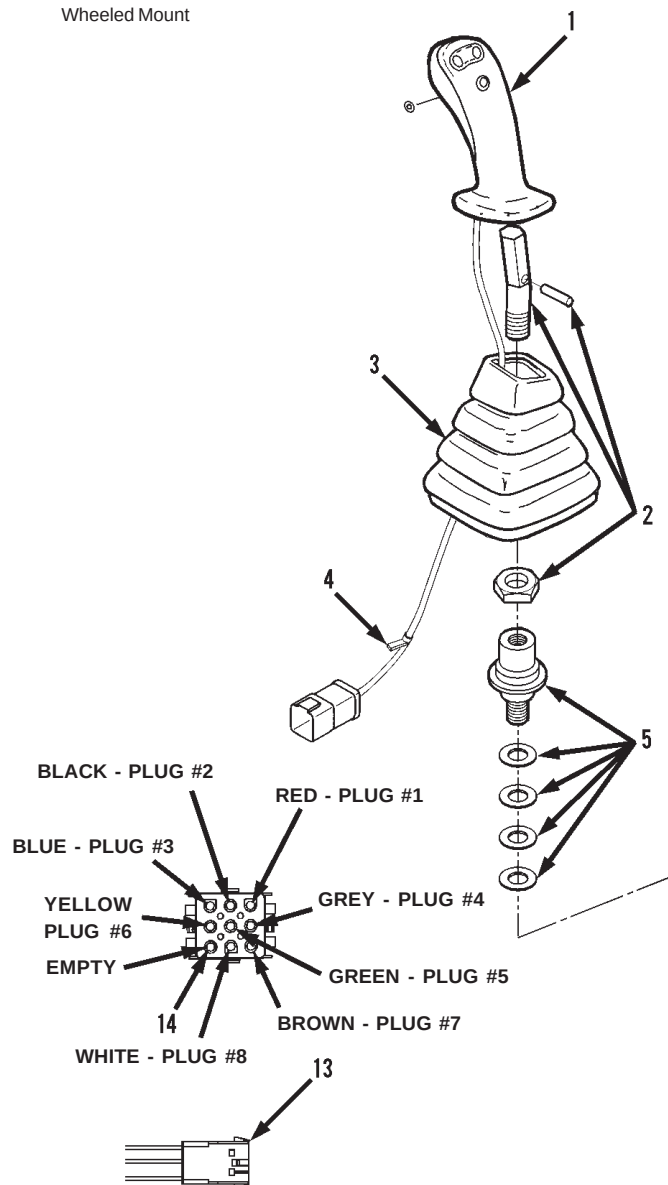
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-3135	1	BRAKE VALVE ASSEMBLY, (includes all items)	46	8023-4239	1	O-RING
1	8023-4194	1	PEDAL WELDMENT	47	8023-4240	1	SPRING
2	8023-4195	1	CAPSCREW	48	8023-4241	1	PISTON
3	8023-4196	1	WASHER	49	8023-4242	1	GLAND
4	8023-4197	1	PEDAL BRACKET	50	8023-4243	1	O-RING
5	8023-4198	2	BUSHING	51	8023-4244	1	VALVE
6	8023-4199	1	PEDAL ARM	52	8023-4245	1	O-RING
7	8023-4200	2	STUD	53	8023-4246	1	ACCUMULATOR BODY
8	8023-4201	1	NUT	54	8023-4247	1	O-RING
9	8023-4202	1	NUT	55	8023-4248	1	SPRING
10	8023-4203	1	SET SCREW	56	8023-4249	1	O-RING
11	8023-4204	1	PLUG	57	8023-4250	1	O-RING
12	8023-4205	2	BUSHING	58	8023-4251	1	CYLINDER
13	8023-4206	1	SHAFT	59	8023-4252	1	O-RING
14	8023-4207	1	VALVE BODY	60	8023-4253	1	O-RING
15	8023-4208	6	BUSHING	61	8023-4254	1	PISTON
16	8023-4209	1	PLUG	62	8023-4255	1	SPRING
17	8023-4210	1	PLUG SEAL	63	8023-4256	1	SEAT
18	8023-4211	1	SEAL	64	8023-4257	1	O-RING
19	8023-4212	1	COLLAR	65	8023-4258	1	SPRING SEAT
20	8023-4213	1	SPRING SEAT	66	8023-4259	1	OL-RING
21	8023-4214	1	SPRING	67	8023-4260	1	SPRING
22	8023-4215	1	SPRING	68	8023-4261	1	HOUSING
23	8023-4216	1	SPRING	69	8023-4262	6	SOCKET HD CAPSCREW
24	8023-4217	1	RETAINING RING	70	8023-4263	6	WASHER
25	8023-4218	1	SPRING SEAT	71	8023-4264	1	NUT
26	8023-4219	1	O-RING	72	8023-4265	1	SEAL RING
27	8023-4220	1	FRONT BRAKE MODULE	73	8023-4266	1	NUT
28	8023-4221	1	SEAL RING	74	8023-4267	1	RING
29	8023-4222	1	SEAL RING	75	8023-4268	1	HIGH NUY
30	8023-4223	1	PISTON	76	8023-4269	1	SEAT
31	8023-4224	1	SPRING	77	8023-4270	1	SHAFT
32	8023-4225	1	SEAL RING	78	8023-4271	1	SPRING
33	8023-4226	1	BACK-UP RING	79	8023-4272	1	SPUD
34	8023-4227	1	PISTON	80	8023-4273	1	SHAFT
35	8023-4228	1	GLAND	81	8023-4274	1	O-RING
36	8023-4229	1	REAR BRAKE MODULE	82	8023-4275	1	SCREW
37	8023-4230	1	SPRING	83	8023-4325	1	FIXED PRESSURE SWITCH
38	8023-4231	1	RETAINING RING	84	8023-4326	1	VARIABLE PRESSURE SWITCH
39	8023-4232	1	RETAINING RING	85	8096-3057	1	TOWER, (two-wire)
40	8023-4233	1	SPRING SEAT	86	8096-3068	2	FEMALE PIN TERMINAL
41	8023-4234	1	SPRING	87	8096-3065	4	CABLE SEAL
42	8023-4235	1	O-RING	88		28"	WIRE, BLACK, (16 GA.)
43	8023-4236	1	SLEEVE	89	8698-3195	4	FEMALE SPADE, 1/4
44	8023-4237	1	VALVE	90	8096-3058	2	SHROUD, (two-wire)
45	8023-4238	1	CLOSURE	91	8096-3069	2	MALE PIN TERMINAL



Item	Part No.	Qty.	Description Of Part
	8023-3173	1	JOYSTICK LOCKOUT VALVE ASSY, (includes all items)
1		1	VALVE BODY
2	8023-4190	1	CARTRIDGE ASSY WITH SEALS
3	8023-4192	1	CARTRIDGE SEAL KIT
4	8023-4191	1	SOLENOID COIL, (12 volt)
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

HYDRAULIC SYSTEM COMPONENTS
(8026-3024) L.H. Joystick Assembly
(8026-3025) R.H. Joystick Assembly
Starting Serial No. 0232412
Original Issue 8-99
Revised 7-28-02

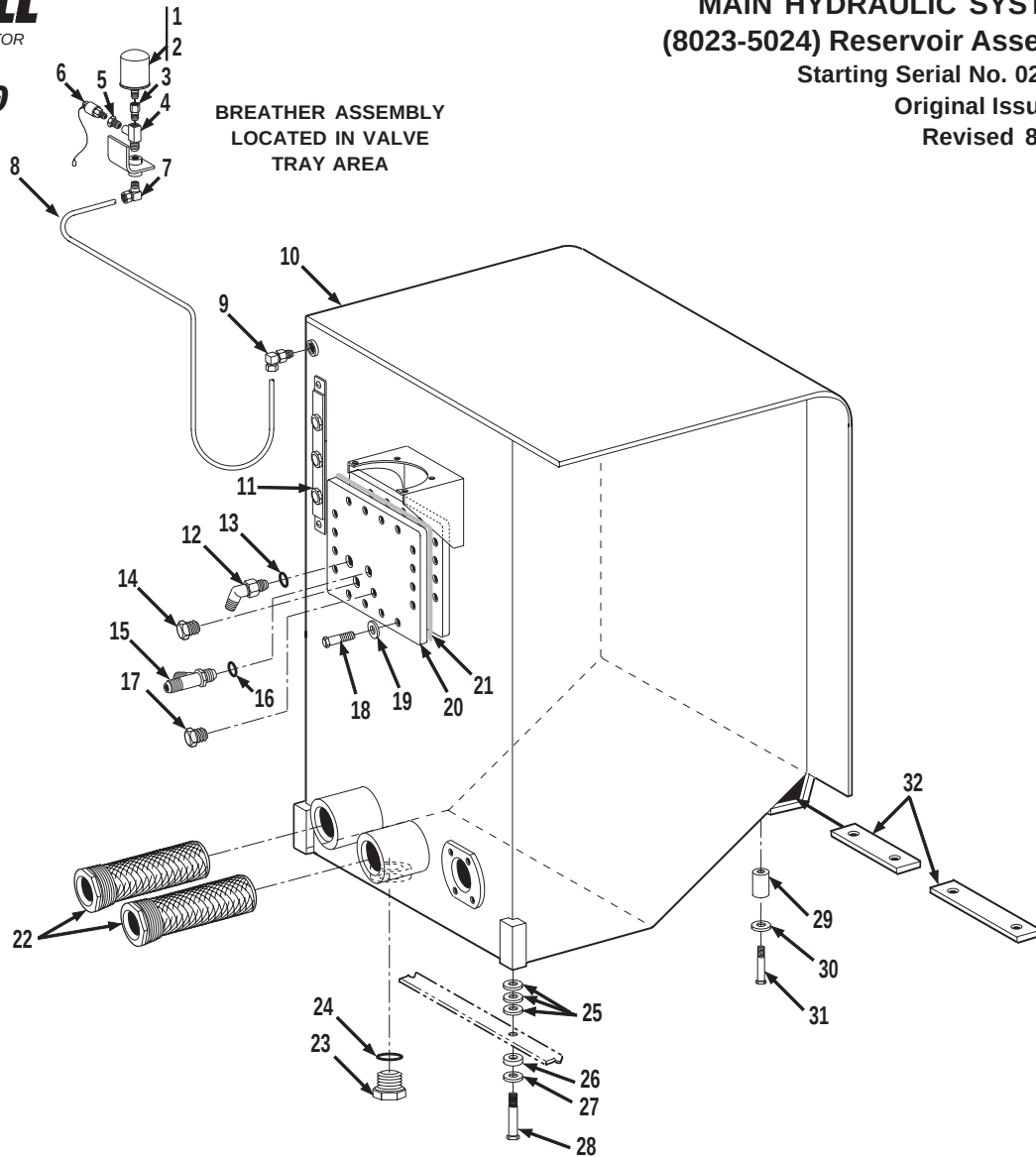


NOTE: THE BOSCH REXROTH CORPORATION JOYSTICK HANDLE SWITCH IS NOT A FIELD SERVICEABLE COMPONENT. ANY ATTEMPT BY NON-FACTORY AUTHORIZED PERSONNEL TO REPAIR OR REPLACE THE SWITCH WILL VOID THE WARRANTY AND CAN RESULT IN A JOYSTICK MALFUNCTION.

Item	Part No.	Qty.	Description Of Part
	8026-3024	1	JOYSTICK ASSY, L. H., (includes all items)
	8026-3025	1	JOYSTICK ASSY, R. H., (includes all items)
1	8026-4127	1	HANDLE WITH WIRE & CONNECTOR
2	9140-4011	1	BENT LEVER KIT
3	8036-4095	1	RUBBER BOOT
4	8026-4139	1	GROMMET KIT
5	8026-4148	1	CARDAN KIT
6	9140-4013	1	RETAINING PLATE
7	8093-4659	2	PLUNGER KIT
8	8093-4660	4	REGULATING KIT
9	9150-4029	1	RETURN SPRING, (standard), (pack of two)
	9150-4028	1	RETURN SPRING, (heavy), (pack of two)
10	9140-4016	1	UPPER BODY
11	9140-4326	1	SEAL KIT
12		1	LOWER BODY
13	8026-3026	1	AMP PIN HOUSING
14	8026-3032	8	MALE PIN TERMINAL

* - Revised illustration & parts list; vendor will no longer supply individual components.

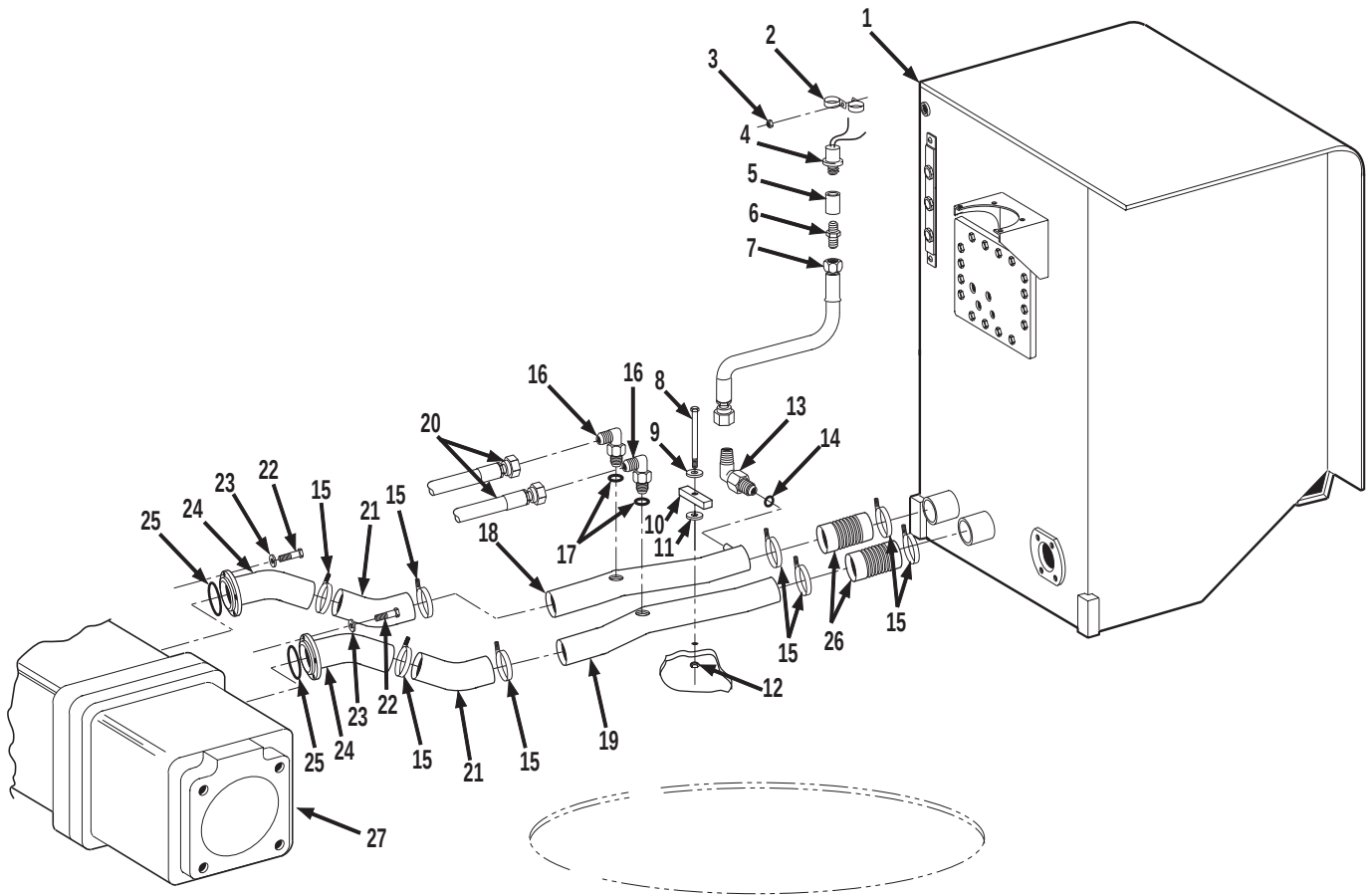
GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount



MAIN HYDRAULIC SYSTEMS
(8023-5024) Reservoir Assembly
Starting Serial No. 0232412
Original Issue 8-99
Revised 8-17-01

Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-5024	1	RESERVOIR ASSEMBLY, (includes items 9 thru 24)	18	8820-1036	16	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5
1	8023-5006	1	BREATHER ASSEMBLY, (includes items 1 thru 6)	19	8855-1011	16	LOCKWASHER, 3/8
2	8093-3068	1	RESERVOIR BREATHER	20	8027-1249	1	COVER PLATE
3	8871-1573	1	REDUCING BUSHING, 1/2X3/8	21	8097-3038	1	GASKET
4	8698-3651	1	STREET TEE, 3/8, (brass)	22	8027-3086	2	SUCTION STRAINER
5	8871-1381	1	REDUCING BUSHING, 3/8X1/4	23	8866-2180	1	HEX HD PLUG, (includes item 24)
6	8097-3044	1	DRAIN VALVE	24	8859-1210	1	O-RING
7	8688-3045	1	TUBE FITTING, 90 DEGREES	25	8856-1008	AR	FLAT WASHER, 5/8, (use as spacer to level)
8		5'	NYLON TUBE, 3/8	26	8024-1073	2	SPECIAL WASHER
9	8688-3046	1	TUBE FITTING, 90 DEGREES	27	8855-1015	2	LOCKWASHER, 5/8
10	8023-6003	1	RESERVOIR WELDMENT	28	8820-1103	2	HEX HD CAPSCREW, 5/8-11X3-1/2, GR5
*11	8037-3052	1	FLUID LEVEL GAUGE	29	8027-1221	4	SPACER
12	9108-3222	1	ELBOW, 90 DEGREES, (includes item 13)	30	9002-7472	4	HARDENED WASHER, 5/8
13		1	O-RING	31	8820-1101	4	HEX HD CAPSCREW, 5/8-11X3, GR5, (lubricate & torque to 140-155 ft. lbs.)
14	8093-3061	1	HYDRAULIC LEVEL PROBE	32	8027-1217	2	RETAINER BAR
15	8866-2140	1	RUN TEE, (includes item 16)				
16	8859-1205	1	O-RING				
17	8096-3220	1	HYDRAULIC TEMPERATURE SENSOR				

* - Revised note on title line; changed part number on item 11.



Item	Part No.	Qty.	Description Of Part
1		Ref	RESERVOIR ASSEMBLY, (see page UP5-1 for details)
2	8594-1016	1	SUPPORT CLAMP
3	7714-3015	1	WHIZ-LOK NUT, 3/8-16
4	8023-3077	1	SUCTION PRESSURE SWITCH
5	8871-1210	1	PIPE COUPLING, 1/8
6	8874-3000	1	MALE ADAPTER, 1/8X1/4 TUBE
7	8471-8130	1	HOSE ASSY
8	8820-1073	1	HEX HD CAPSCREW, 1/2-13X4-1/2, GR5
9	8856-1109	1	FLAT WASHER, 1/2
10	8027-1137	1	CLAMP BAR
11	8027-1140	1	SPACER
12	8852-1206	1	HEX LOCKNUT, 1/2-13
13	8866-2062	1	MALE ELBOW, 90 DEGREES, (includes item 14)
14	8859-1202	1	O-RING

Item	Part No.	Qty.	Description Of Part
15	7736-3316	8	HEAVY DUTY BAND CLAMP
16	8866-2333	2	ELBOW, 90 DEGREES, (includes item 17)
17	8859-1209	2	O-RING
18	8023-3182	1	SUCTION TUBE
19	8023-3183	1	SUCTION TUBE
20	8471-9123	2	HOSE ASSY
21	8023-3180	2	CUFFED HOSE
22	8820-1067	8	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5
23	8855-1013	8	LOCKWASHER, 1/2
24	8027-3027	2	SUCTION FITTING
25	8859-1110	2	O-RING
26	8023-3179	2	CUFFED HOSE
27		Ref	MAIN TANDEM HYDRAULIC PUMP ASSY, ((see pages UP4-1 & UP4-2 for details))

GRADALL

HYDRAULIC EXCAVATOR

Upperstructure

XL2300

Wheeled Mount

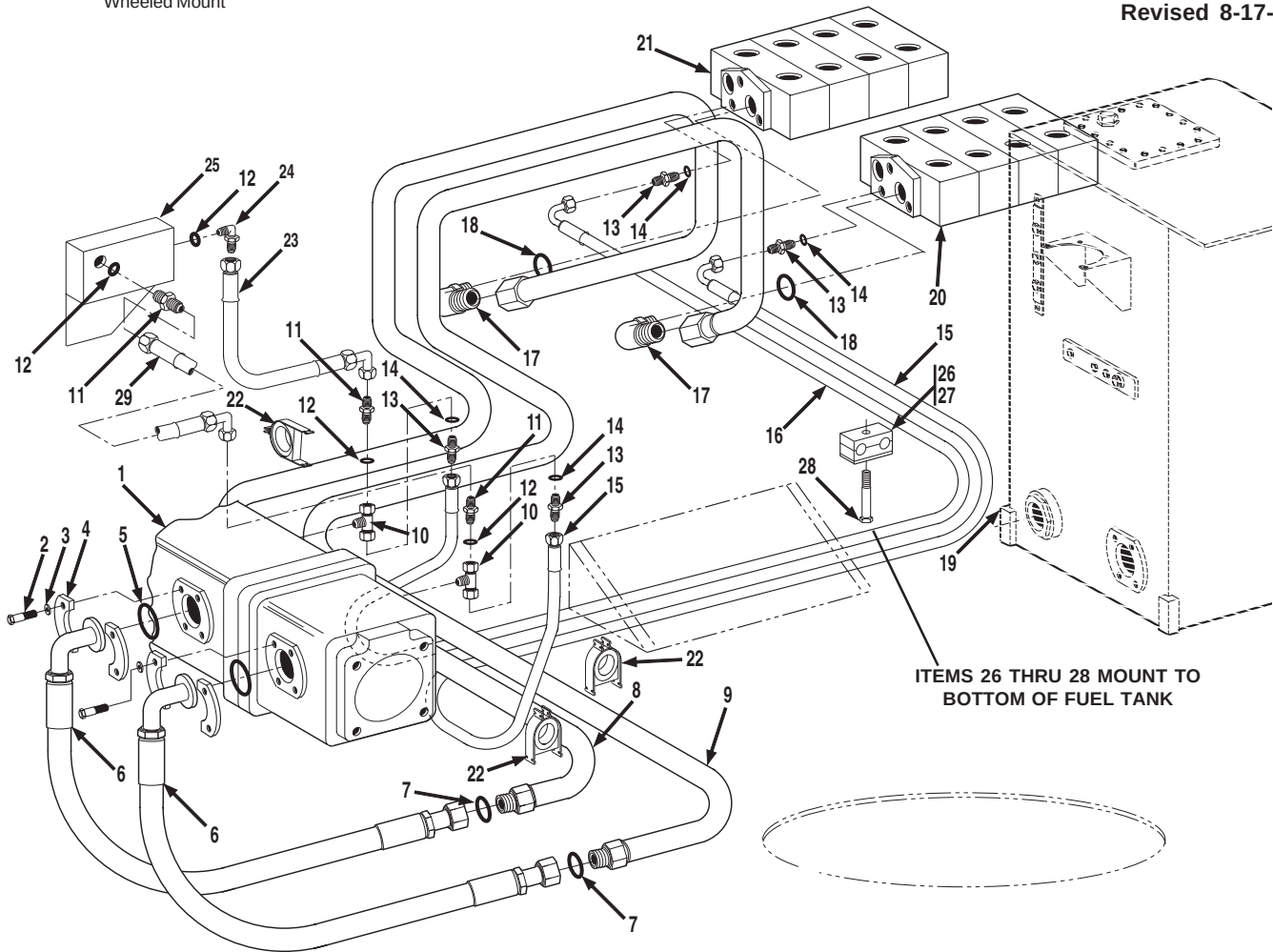
MAIN HYDRAULIC SYSTEMS

Hydraulic Pressure to Control Valves

Starting Serial No. 0232412

Original Issue 8-99

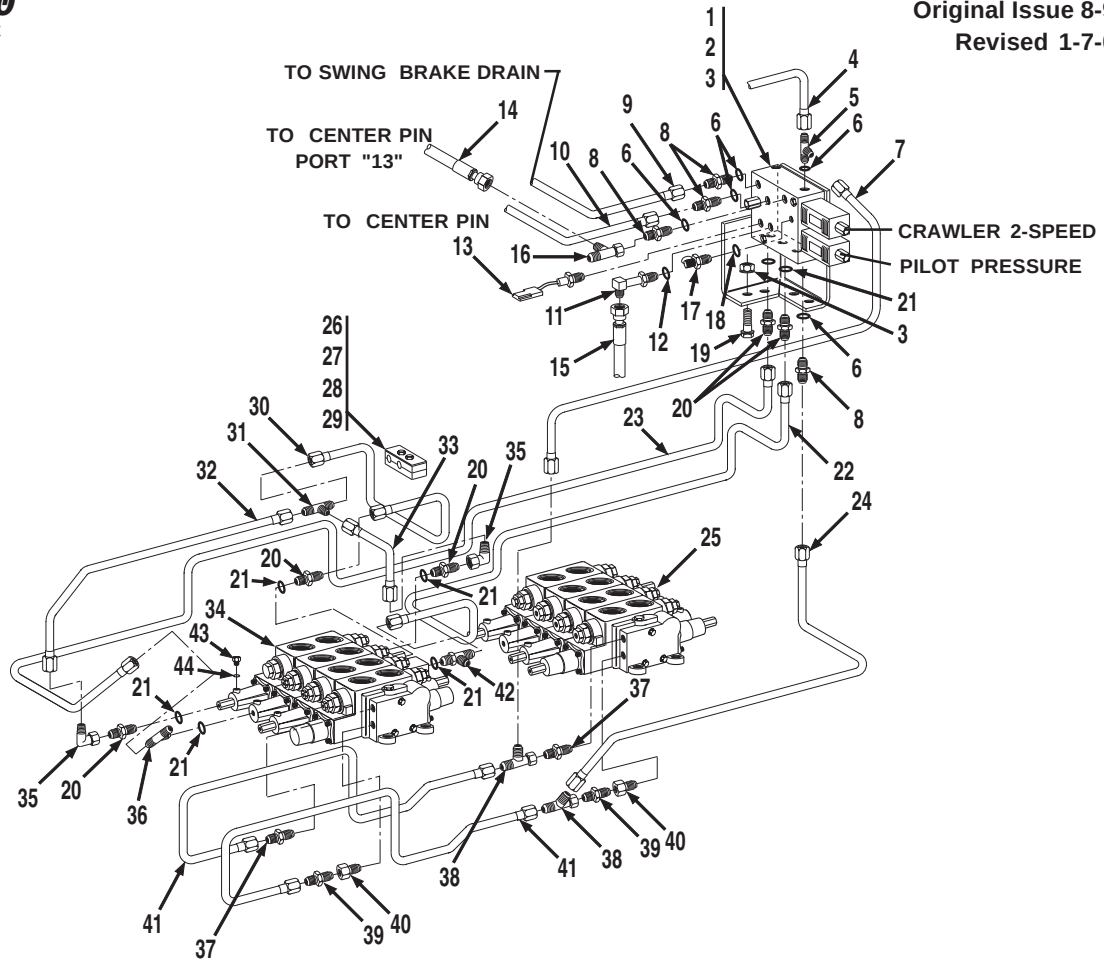
Revised 8-17-01



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1		Ref	MAINTANDEM HYDRAULIC PUMP ASSEMBLY, (see page UP4-1 for details)	18	8859-1209	2	O-RING
2	8820-1053	8	HEX HD CAPSCREW, 7/16-14X1-3/4, GR5	19		Ref	HYDRAULIC RESERVOIR ASSY, (see page UP5-1 for details)
3	8855-1012	8	LOCKWASHER, 7/16	20		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)
4	8471-2738	4	FLANGE HALF	21		Ref	TOOL, HOIST & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
5	9108-3106	2	O-RING	22	9020-5792	4	CLAMP
6	8471-8723	2	HOSE ASSY	23	8471-8881	1	HOSE ASSY
7	8859-1509	2	O-RING	24	8866-2489	1	ELBOW, 90 DEGREES, (includes item 12)
8	8023-3035	1	TUBE ASSY	25		Ref	PUMP VALVE ASSY, (see pages UP3-14 & UP4-9 for details)
9	8023-3034	1	TUBE ASSY	26	7732-3029	1	CLAMP SET
10	8027-3034	2	SPECIAL BRANCH TEE	27	7713-3137	1	COVER PLATE
*11	8866-2471	2	CONNECTOR, (includes item 12)	28	8820-1023	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5
*12	8859-1204	3	O-RING	*29	8471-8703	1	HOSE ASSY
13	8866-2301	4	CONNECTOR, (includes item 14)				
14	8859-1503	4	O-RING				
15	8471-8724	1	HOSE ASSY				
16	8471-8707	1	HOSE ASSY				
17	8866-2455	2	ELBOW, 90 DEGREES, (includes item 18)				

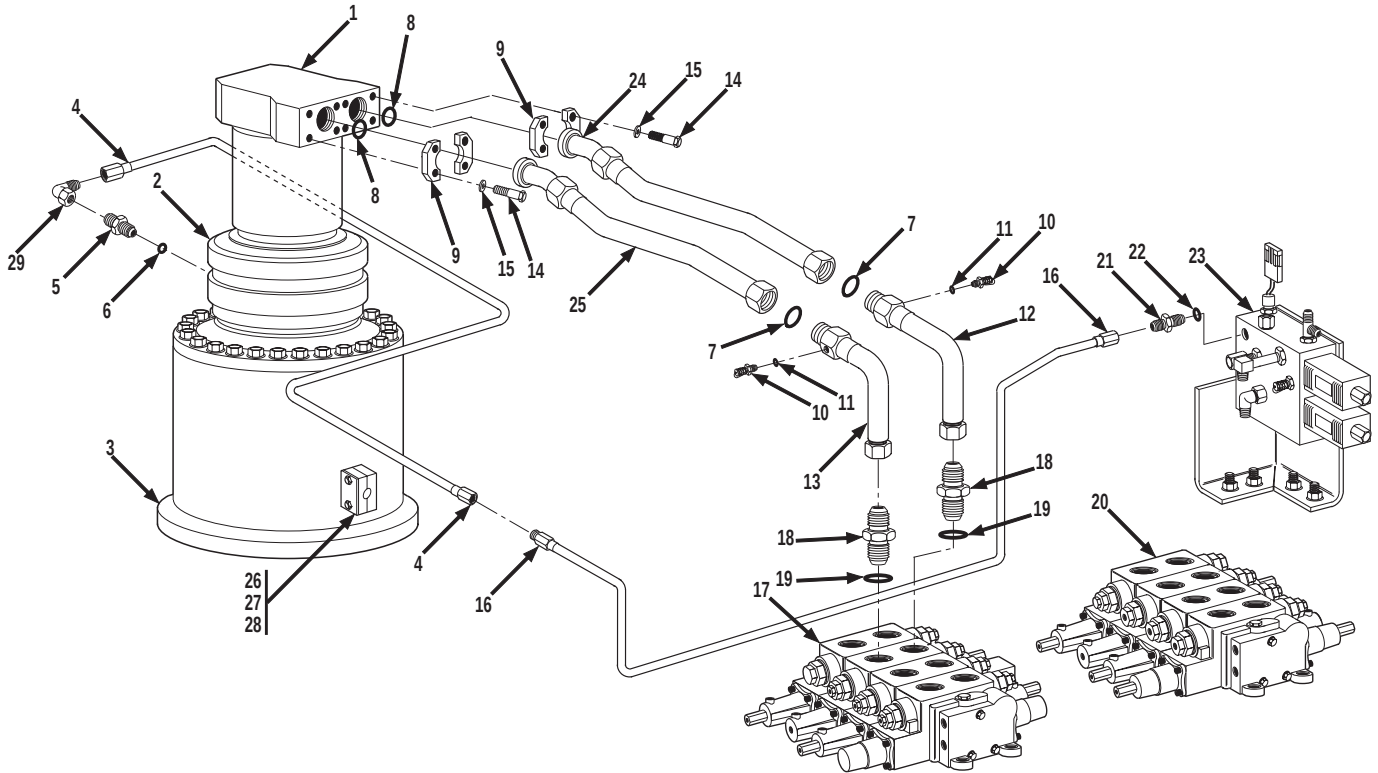
* - Changed quantity on items 11 & 12; added item 29; revised illustration.

PCN 000507-TT

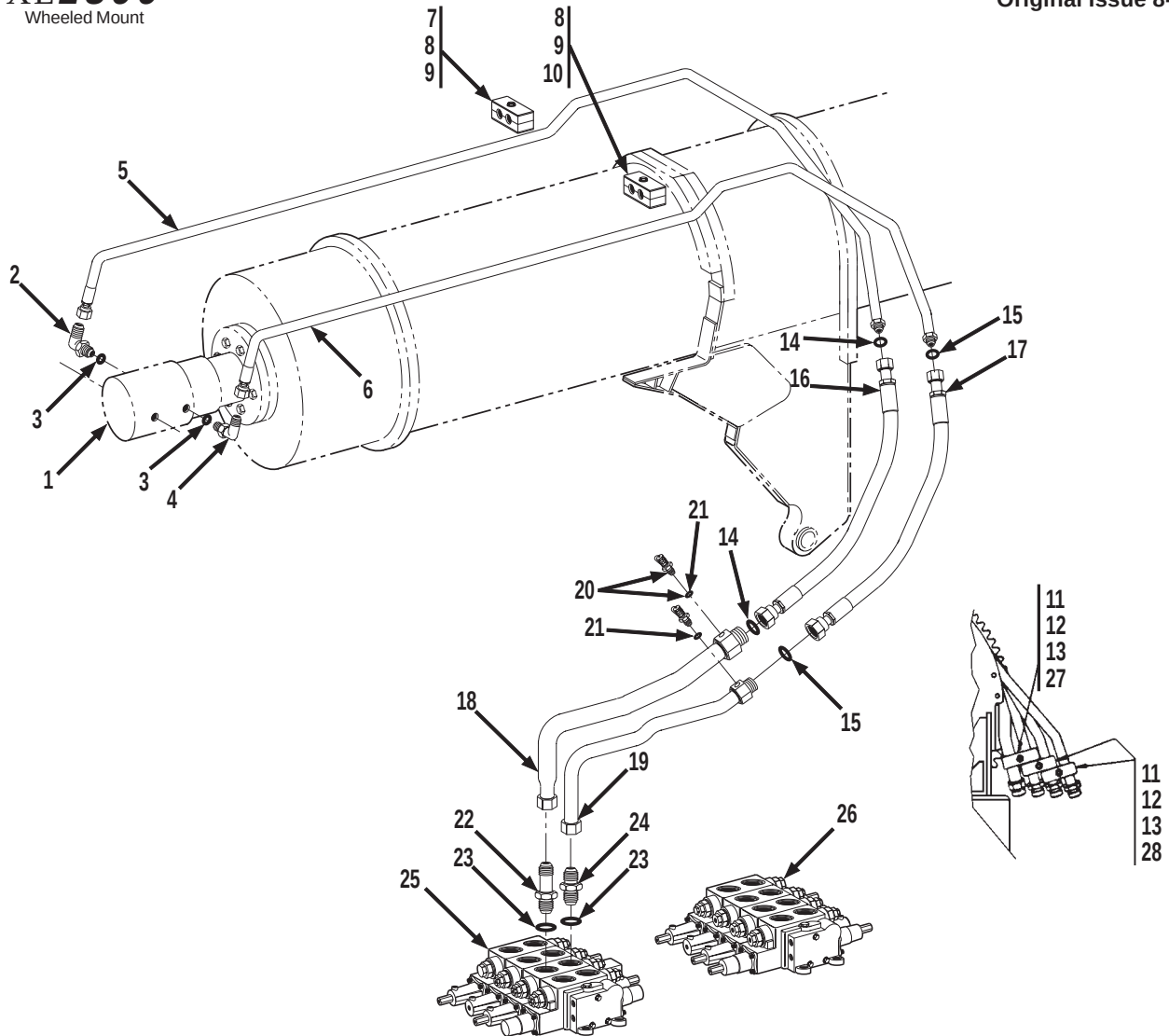


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1		Ref	COMBINATION VALVE ASSY, (see page UP4-16 for details)	24	8023-3058	1	TUBE ASSY
2	8820-1027	2	HEX HD CAPSCREW, 5/16-18X2-3/4, GR5	25		Ref	TOOL, HOIST, PROPEL & AUXILIARY HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
3	7714-3006	2	WHIZ-LOK NUT, 5/16-18	26	8093-3097	4	CLAMP HALF
4	8023-3195	1	TUBE ASSY	27	8093-1020	2	COVER PLATE
5	8866-2139	1	RUN TEE, (includes item 6)	28	8820-1006	4	HEX HD CAPSCREW, 1/4-20X1-1/4, GR5
6	8859-1204	5	O-RING	29	8855-1009	4	LOCKWASHER, 1/4
7	8023-3059	1	TUBE ASSY	30	8023-3062	1	TUBE ASSY
8	8866-2005	4	CONNECTOR, (includes item 6)	31	8866-1303	1	UNION TEE, 1/4 TUBE
9	8023-3070	1	TUBE ASSY	32	8023-3061	1	TUBE ASSY
10	8023-3094	1	TUBE ASSY	33	8023-3063	1	TUBE ASSY
11	8697-1355	1	LONG ELBOW, 90 DEGREES, (includes item 12)	34		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)
12		1	O-RING	35	8866-2103	2	ELBOW, 90 DEGREES, (swivel nut)
*13	8093-3313	1	PRESSURE SWITCH	36	8866-2150	1	BRANCH TEE, (includes item 21)
14	8471-8879	1	HOSE ASSY	37	8366-1316	2	ADAPTER
15	8471-8872	1	HOSE ASSY	38	8866-2239	2	SWIVEL NUT RUN TEE
16	8866-2239	1	SWIVEL NUT RUN TEE, (includes item 18)	39	8023-3041	2	CHECK FITTING
17	7713-3089	1	MINI-CHECK COUPLING, (includes item 18)	40	8656-1311	2	ADAPTER
18	8376-3056	1	VITON O-RING, (lubricate lightly)	41	8023-3060	2	TUBE ASSY
19	7714-3004	4	WHIZ-LOK SCREW, 5/16-18x1-1/4	42	8866-2137	1	RUN TEE, (includes item 21)
20	8866-2003	5	CONNECTOR, (includes item 21)	43	8866-2189	2	HEX SOCKET HD PLUG, (includes item 44)
21	8859-1202	7	O-RING	44	8859-1201	2	O-RING
22	8023-3064	1	TUBE ASSY				
23	8023-3065	1	TUBE ASSY				

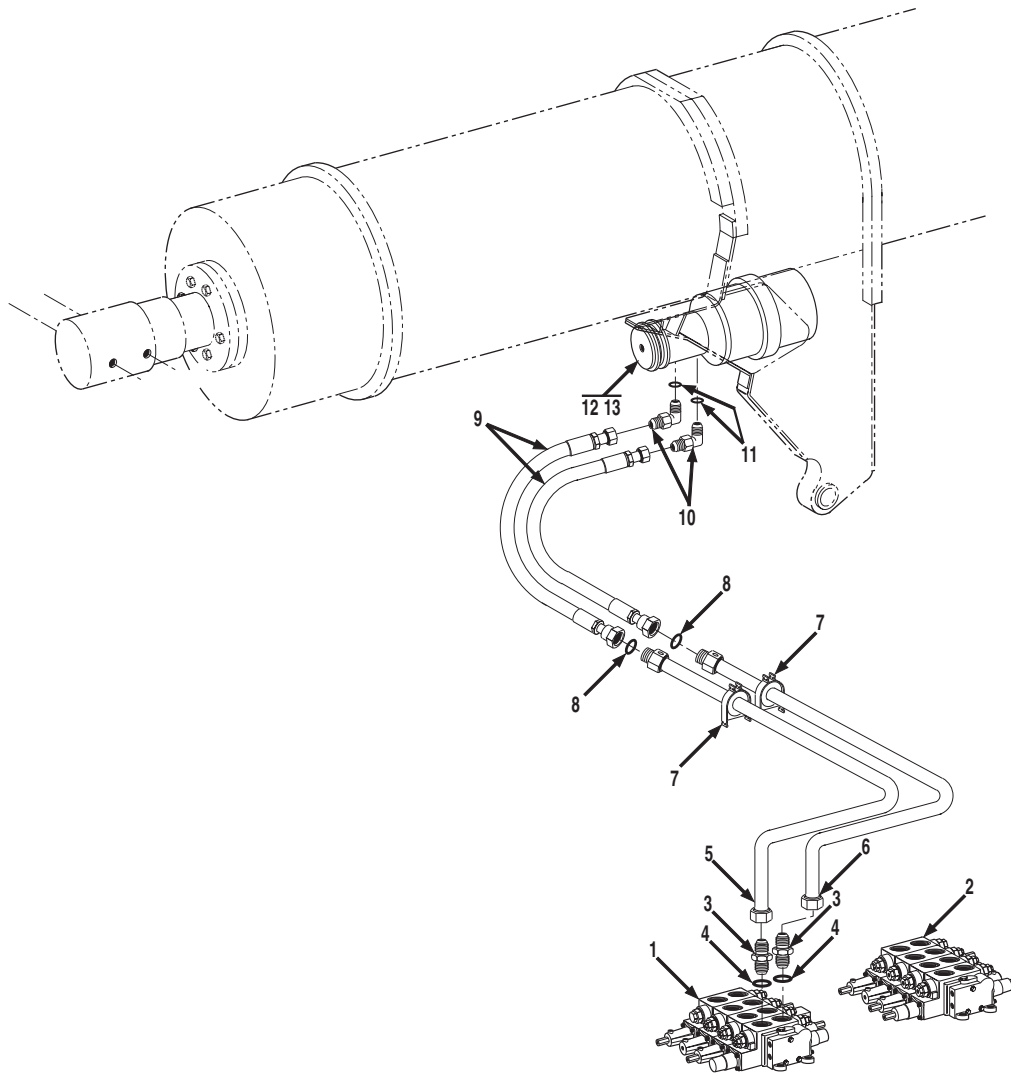
* - Changed part number on item 13.



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1		Ref	SWING MOTOR ASSY, (see page UP4-7 for details)	16	8023-3070	1	TUBE ASSY
2		Ref	SWING BRAKE ASSY, (see page UP4-8 for details)	17		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)
3		Ref	SWING TRANSMISSION ASSY, (see pages UP4-5 & UP4-6 for details)	18	8866-2304	2	CONNECTOR, (includes item 19)
4	8023-3084	1	TUBE ASSY	19	8859-1206	2	O-RING
5	8366-1316	1	CONNECTOR, (includes item 6)	20		Ref	TOOL, HOIST & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
6	8859-1206	1	O-RING	21	8866-2005	1	CONNECTOR, (includes item 22)
7	8859-1508	2	O-RING	22	8859-1204	1	O-RING
8	9108-3106	2	O-RING	23		Ref	COMBINATION VALVE ASSY, (see page UP4-16 for details)
9	8471-1333	4	FLANGE HALF	24	8471-9051	1	HOSE ASSY
10	9105-3020	2	MINI-CHECK COUPLING, (includes item 11)	25	8471-9050	1	HOSE ASSY
11	9105-4002	2	VITON O-RING, (lubricate lightly)	26	9106-3040	1	CLAMP SET
12	8023-3100	1	TUBE ASSY	27	9106-3039	1	COVER PLATE
13	8023-3101	1	TUBE ASSY	28	8820-1006	2	HEX HD CAPSCREW, 1/4-20X1-1/2, GR5
14	8820-1036	8	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	29	8866-2105	1	ELBOW, 90 DEGREES, (swivel nut)
15	8855-1011	8	LOCKWASHER, 3/8				

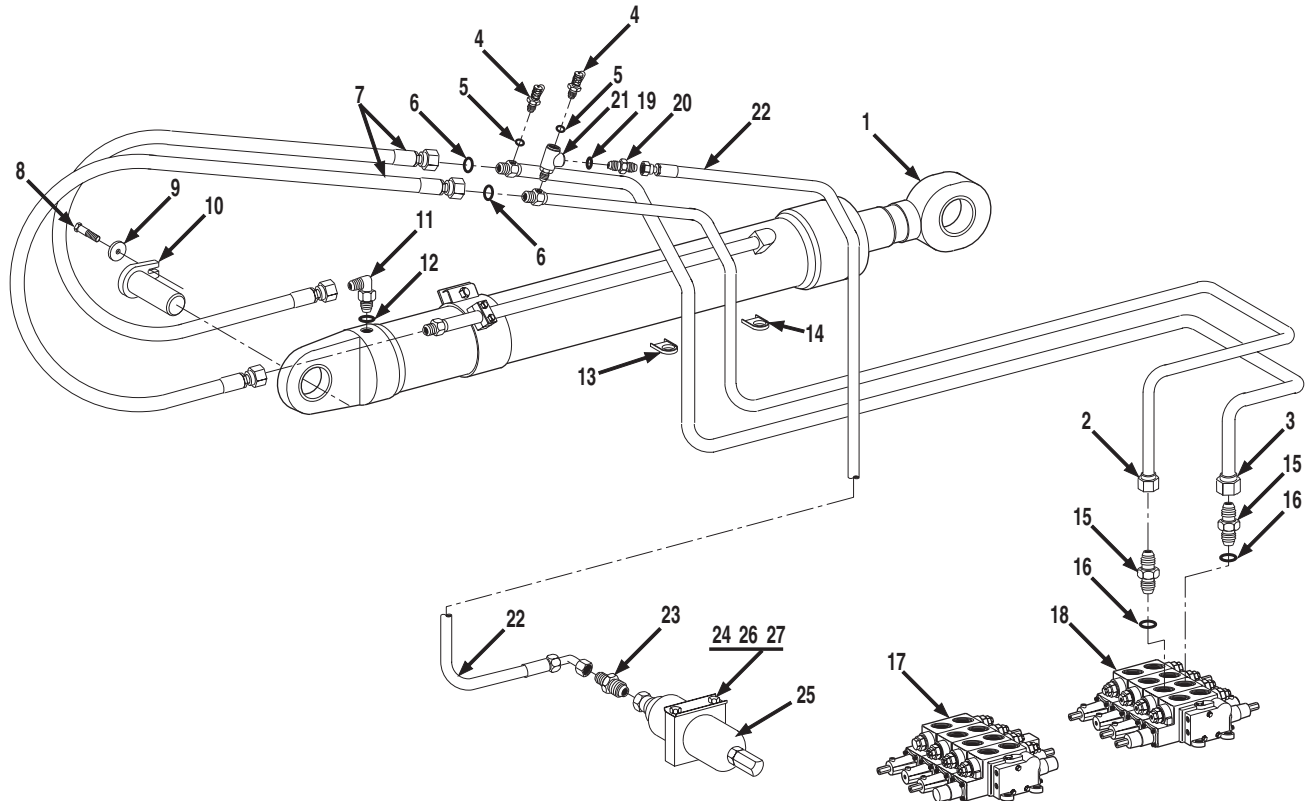


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1		Ref	BOOM CYLINDER ASSY, (see page UP4-14 for details)	15	8859-1508	2	O-RING
2	8866-2455	1	ELBOW, 90 DEGREES, (includes items 3)	16	8471-9104	1	HOSE ASSY
3	8859-1209	2	O-RING	17	8471-8719	1	HOSE ASSY
4	8866-2336	1	ELBOW, 90 DEGREES, (includes item 3)	18	8023-3021	1	TUBE ASSY
5	8022-3026	1	TUBE ASSY	19	8023-3022	1	TUBE ASSY
6	8022-3029	1	TUBE ASSY	20	7713-3089	2	MINI-CHECK COUPLING, (includes item 21)
7	8022-1116	1	TUBE CLAMP	21	8376-3056	2	VITON O-RING, (lubricate lightly)
*8	8820-1071	2	HEX HD CAPSCREW, 1/2-13X2-1/2, GR5	22	8866-2327	1	LONG CONNECTOR, (includes item 23)
9	8855-1013	2	LOCKWASHER, 1/2	23	8859-1207	2	O-RING
10	8022-1095	1	TUBE CLAMP	24	8866-2309	1	CONNECTOR, (includes item 23)
11	9020-6087	1	ANCHOR CHANNEL	25		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)
12	9105-3413	1	CUSHION CLAMP, 1"	26		Ref	TOOL, HOIST & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
13	9020-7463	1	CUSHION CLAMP, 3/4				
14	8859-1509	2	O-RING				



Item	Part No.	Qty.	Description Of Part
1		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)
2		Ref	TOOL, HOIST & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
3	8866-2477	2	CONNECTOR, (includes item 4)
4	8859-1207	2	O-RING
5	8023-3023	1	TUBE ASSY
6	8023-3024	1	TUBE ASSY
7	9108-3217	2	CUSHION CLAMP
8	8859-1506	2	O-RING
9	8471-9076	2	HOSE ASSY
*10	8866-2435	2	ELBOW, 90 DEGREES, (includes item 11)
*11	8859-1206	2	O-RING
*12		Ref	TILT MOTOR ASSY, (see pages UP2-2 & UP4-12 for details)
*13	8022-3025	4	HEX FLANGE BOLT, 5/8-11X2-1/4, (lubricate & torque to 200-215 ft. lbs.)

* - Changed part number on item 10; added items 11, 12 & 13; revised illustration.

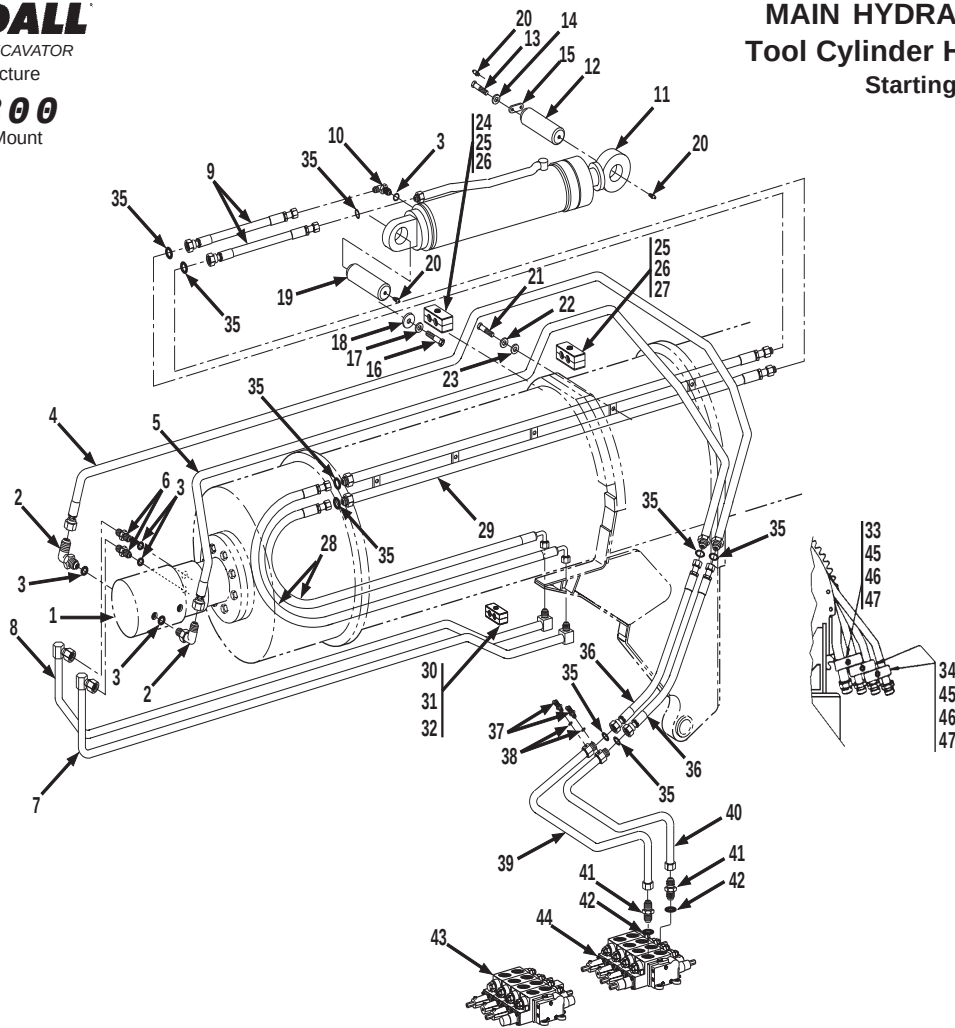


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1		Ref	HOIST CYLINDER ASSY, (see page UP4-13 for details)	15	8866-2304	2	CONNECTOR, (includes item 16)
2	8023-3025	1	TUBE ASSY	16	8859-1207	2	O-RING
3	8023-3026	1	TUBE ASSY	17		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)
4	7713-3089	2	MINI-CHECK COUPLING, (includes item 5)	18		Ref	TOOL, HOIST & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
5	8376-3056	2	VITON O-RING, (lubricate lightly)	19	8866-2471	1	CONNECTOR, (includes item 20)
6	8859-1507	2	O-RING	20	8859-1204	1	O-RING
7	8471-8718	2	HOSE ASSY	21	8063-3113	1	ADAPTER, (includes o-ring)
8	8820-1065	1	HEX HD CAPSCREW, 1/2-13X1, GR5	22	8471-9268	1	HOSE ASSY
9	8362-1283	1	SPECIAL WASHER	23	8063-3114	1	ADAPTER, (includes o-ring)
10	8024-6001	1	REAR PIN WELDMENT	*24	8023-3335	1	CLAMP SET, 2-1/4
11	8866-2331	1	ELBOW, 90 DEGREES, (includes item 12)	25	8093-3107	1	ACCUMULATOR
12	8859-1206	1	O-RING	*26	8320-1073	1	HEX HD CAPSCREW, 3/8-16X4-1/2, GR5
13	9105-3413	1	CUSHION CLAMP, 1	*27	8325-3006	1	COVER PLATE
14	9020-7463	1	CUSHION CLAMP, 3/4				

* - Changed part number on item 24, added items 26 & 27.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

MAIN HYDRAULIC SYSTEMS
Tool Cylinder Hyrdraulic Circuit
Starting Serial No. 0232412
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1		Ref	BOOM CYLINDER & GLAND ASSY, (see page UP4-14 for details)	25	8820-1071	2	HEX HD CAPSCREW, 1/2-13X2-1/2, GR5
2	8866-2335	2	ELBOW, 90 DEGREES, (includes item 3)	26	8855-1013	2	LOCKWASHER, 1/2
3	8859-1209	5	O-RING	27	8022-1095	1	TUBE CLAMP
4	8022-3027	1	TUBE ASSY	28	8471-8980	2	HOSE ASSY
5	8022-3028	1	TUBE ASSY	29	8022-3011	1	TUBE ASSY
6	8866-2311	2	CONNECTOR, (jncludes item 3)	30	7713-3073	2	CLAMP SET
7	8022-3042	1	TUBE ASSY	31	7713-3052	2	COVER PLATE
8	8022-3043	1	TUBE ASSY	32	8820-1007	4	HEX HD CAPSCREW, 1/4-20X1-1/2, GR5
9	8471-8656	2	HOSE ASSY	33	8022-1227	2	CLAMP
10	8866-2331	1	ELBOW, 90 DEGREES, (includes item 3)	34	8022-1276	4	CLAMP
11		Ref	TOOL CYLINDER ASSY, (see page UP4-15 for details)	35	8859-1508	8	O-RING
12	8022-6033	1	FRONT PIN WELDMENT	36	8471-8719	2	HOSE ASSY
13	8820-1033	2	HEX HD CAPSCREW, 3/8-16X3/4, GR5	37	7713-3089	2	MINI-CHECK COUPLING, (includes item 37)
14	8855-1011	2	LOCKWASHER, 3/8	38	8376-3056	2	VITON O-RING, (lubricate lightly)
15	8022-1059	1	PIN WASHER	39	8023-3027	1	TUBE ASSY
16	8820-1065	1	HEX HD CAPSCREW, 1/2-13X1, GR5	40	8023-3028	1	TUBE ASSY
17	8855-1013	1	LOCKWASHER, 1/2	41	8866-2304	2	CONNECTOR, (includes item 42)
18	8362-1283	1	SPECIAL WASHER	42	8859-1207	2	O-RING
19	8022-1050	1	REAR PIN WELDMENT	43		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)
20	8867-1001	3	LUBE FITTING, STRAIGHT, 1/8	44		Ref	TOOL, HOIST & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
21	8820-1035	5	HEX HD CAPSCREW, 3/8-16X1, GR5	45	8821-1073	3	SOCKET HD CAPSCREW, 3/8-16X1-1/2, GR8
22	8855-1011	5	LOCKWASHER, 3/8	46	8852-1206	3	HEX LOCKNUT, 3/8-16
23	8856-1004	5	FLAT WASHER, 3/8	47	8022-1281	3	SPACER
24	8022-1116	1	TUBE CLAMP				

GRADALL

HYDRAULIC EXCAVATOR

Upperstructure

XL2300

Wheeled Mount

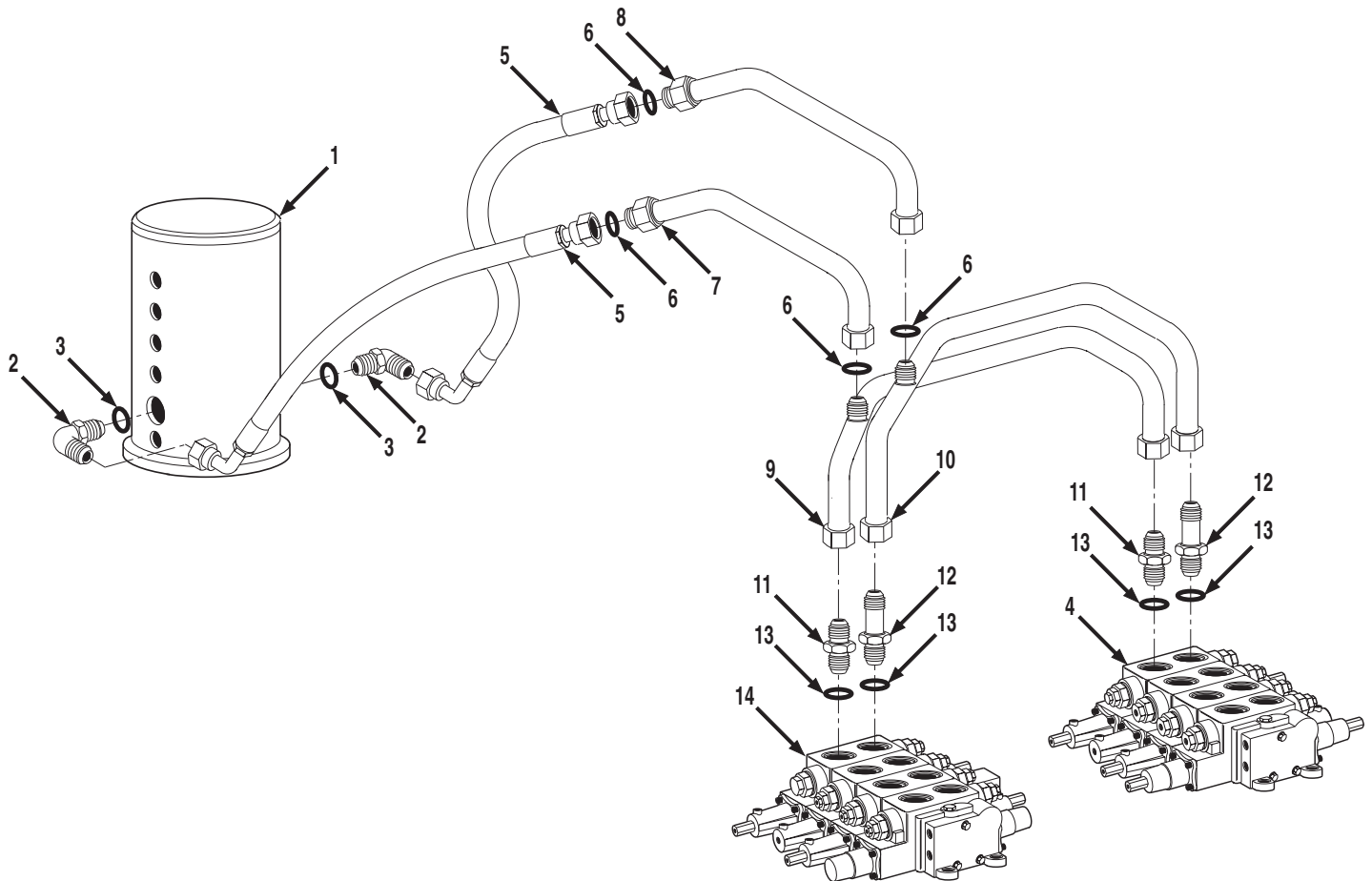
MAIN HYDRAULIC SYSTEMS

Upper Propelling Hyrdraulic Circuit

Starting Serial No. 0232412

Original Issue 8-99

Revised 5-25-01



Item	Part No.	Qty.	Description Of Part
1		Ref	CENTER PIN ASSY, (see page UP4-3 for details)
2	8023-3189	2	ELBOW, 90 DEGREES, (includes item 3)
3		2	O-RING
*4		Ref	TOOL, HOIST & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
*5	8471-9277	2	HOSE ASSY
6	8859-1510	4	O-RING
7	8023-3221	1	TUBE ASSY
8	8023-3222	1	TUBE ASSY
9	8023-3211	1	TUBE ASSY
10	8023-3210	1	TUBE ASSY
11	8866-2309	2	CONNECTOR, (includes item 13)
12	8866-2327	2	LONG CONNECTOR, (includes item 13)
13	8859-1209	4	O-RING
14		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)

* - Removed item 15; changed part number on item 4; changed quantity on item 5; revised illustration.

PCN010152-TT

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

MAIN HYDRAULIC SYSTEMS

Dump Circuit

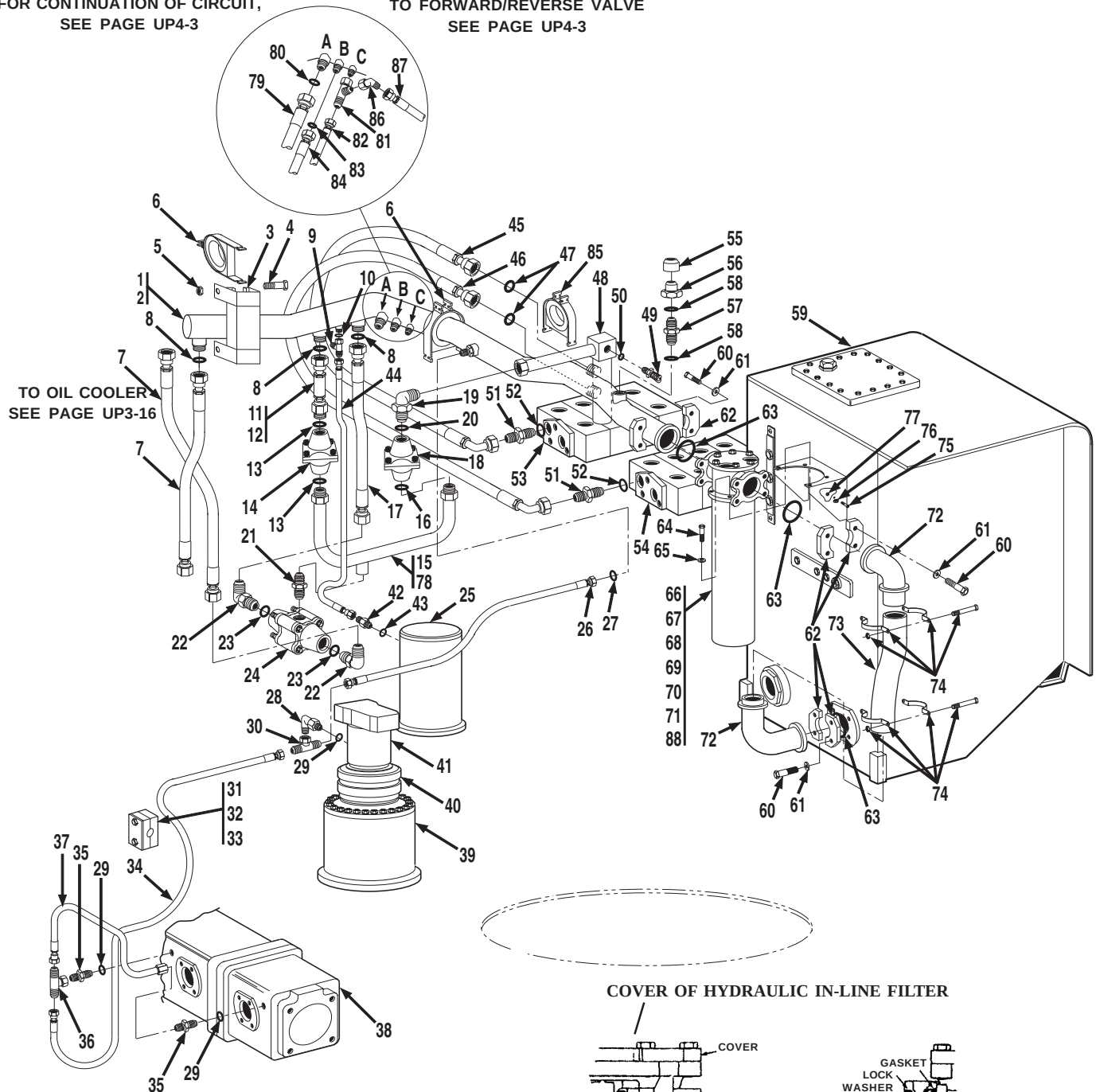
Starting Serial No. 0232412

Original Issue 8-99

Revised 4-6-01

ITEMS 79, 82 & 84
FOR CONTINUATION OF CIRCUIT,
SEE PAGE UP4-3

ITEM #87
TO FORWARD/REVERSE VALVE
SEE PAGE UP4-3



MAIN HYDRAULIC SYSTEMS**Dump Circuit**

Starting Serial No. 0232412

Original Issue 8-99

Revised 4-6-01

Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8023-5022	1	DUMP TUBE ASSY, (includes items 2, 52, 55, 56 & 57)	45	8471-8721	1	HOSE ASSY
2	8023-3186	1	DUMP TUBE	46	8471-8722	1	HOSE ASSY
3	8027-6029	1	DUMP TUBE CLAMP BRACKET	47	8859-1509	2	O-RING
4	8097-3025	2	WHIZ-LOK SCREW, 3/8-16X1	48	8023-3112	1	TUBE ASSY
5	7714-3015	2	WHIZ-LOK NUT, 3/8-16	49	7713-3089	1	MINI-CHECK COUPLING, (includes item 50)
6	8386-3005	2	CUSHION CLAMP	50	8376-3056	1	VITON O-RING, (lubricate lightly)
7	8471-8904	2	HOSE ASSY	51	8866-2305	2	CONNECTOR, (includes item 52)
8	8859-1510	1	O-RING	52	8859-1209	2	O-RING
9	8866-2438	1	SWIVEL NUT RUN TEE	53		Ref	TOOL, HOIST & PROPEL
10	8859-1506	1	O-RING				HYDRAULIC CONTROL VALVE
11	8023-3110	1	TUBE ASSY				ASSY, (see page UP4-17 for details)
12	8859-1210	2	O-RING	54		Ref	TILT, BOOM, SWING & PROPEL
13	8859-1510	2	O-RING				HYDRAULIC CONTROL VALVE
14	8023-3053	1	CHECK VALVE, (35 psi)				ASSY, (see page UP4-22 for details)
15	8023-3111	1	TUBE ASSY	55	8362-3026	1	Q.D. DUST CAP, (male)
16	8859-1211	1	O-RING		8362-3027	1	Q.D. DUST CAP, (female)
17	8471-9086	1	HOSE ASSY	56	8345-1129	1	MALE Q.D. COUPLING
18	8023-3054	1	CHECK VALVE, (65 psi)		8345-1128	1	FEMALE Q.D. COUPLING
19	8866-2490	1	ELBOW, 90 DEGREES, (includes item 20)	57	8866-2027	1	CONNECTOR, (includes item 58)
20	8859-1031	1	O-RING	58	8859-1209	2	O-RING
21	8093-3055	1	UNION	59		Ref	HYDRAULIC RESERVOIR ASSY, (see page UP5-1 for details)
22	8866-2455	2	ELBOW, 90 DEGREES, (includes item 23)	60	8820-1067	12	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5
23	8859-1209	2	O-RING	61	8855-1013	12	LOCKWASHER, 1/2
24		Ref	THERMAL BY-PASS VALVE ASSY, (see page UP4-10 for details)	62	8471-1427	6	FLANGE HALF
25		Ref	CENTER PIN ASSY, (see page UP4-3 for details)	63	7736-3038	3	O-RING
26	8471-8715	2	HOSE ASSY	64	8820-1005	4	HEX HD CAPSCREW, 1/4-20X1, GR5
27	8859-1506	2	O-RING	65	8855-1009	4	LOCKWASHER, 1/4
28	8866-2435	1	ELBOW, 90 DEGREES, (includes item 29)	66	8027-3007	1	IN-LINE FILTER ASSY, (includes items 67 thru 71)
29	8859-1206	3	O-RING	67	8027-3008	1	IN-LINE FILTER ELEMENT
30	8866-2355	2	SWIVEL NUT BRANCH TEE	68	8096-3060	1	SHROUD
31	7736-3002	1	CLAMP SET	69	8096-3069	3	MALE PIN
32	8325-3010	1	COVER PLATE	70	8096-3067	3	SEAL
33	8820-1040	2	HEX HD CAPSCREW, 3/8-16X2-1/4, GR5	71	8027-4011	1	RETURN SWITCH, (35psi)
34	8471-8717	1	HOSE ASSY	72	7736-3062	2	HOSE FITTING
35	8866-2430	2	CONNECTOR, (includes item 29)	73	8027-3031	1	HOSE
36	8866-2355	2	SPECIAL BRANCH TEE	74	7736-3064	2	CLAMP
37	8027-3069	1	TUBE ASSY	75	7714-3003	1	WHIZ-LOK SCREW, 5/16-18X5/8
38		Ref	MAIN HYDRAULIC TANDEM PUMP ASSY, (see page UP4-1 for details)	76	8594-1016	1	SUPPORT CLAMP
39		Ref	SWING TRANSMISSION ASSY, (see page UP4-5 & UP4-6 for details)	77	7714-3006	1	WHIZ-LOK NUT, 5/16-18
40		Ref	SWING BRAKE ASSY, (see page UP4-8 for details)	78	8023-5011	1	THERMAL BYPASS & CHECK VALVE ASSY, (includes items 7, 11, 12, 14, 15, 16, 17, 18, 19, 21, 22 & 24)
41		Ref	SWING MOTOR ASSY, (see page UP4-7 for details)	79	8471-9150	1	HOSE ASSY
42	8866-2440	1	CONNECTOR, (includes item 43)	80	8859-1508	1	O-RING
43	8859-1204	1	O-RING	81	8866-2237	1	SWIVEL NUT RUN TEE
44	8471-8715	1	HOSE ASSY	82	8471-9158	1	HOSE ASSY
				83	8859-1506	1	O-RING
				84	8471-9153	1	HOSE ASSY
				85	9020-5793	1	CUSHION CLAMP
				86	8866-2103	1	ELBOW, 90 DEGREES, (swivel nut)
				87	8471-9158	1	HOSE ASSY
				88	8027-4015	1	O-RING, (square), (inside filter head)

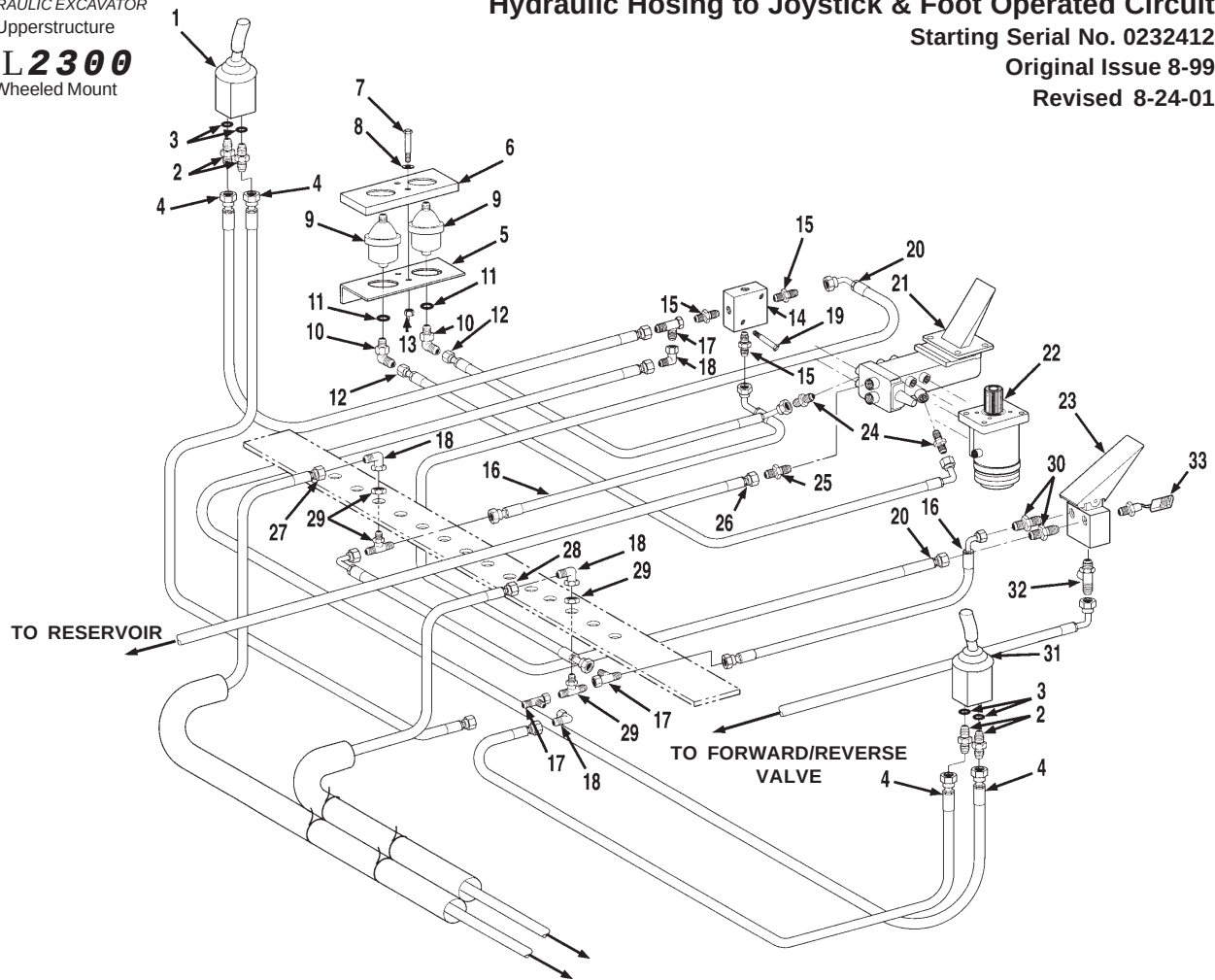
NOTE: ITEMS 55 & 56**Q.D. FEMALE COUPLINGS**

PART NO. 8362-3027 & 8345-1128 ARE INCLUDED IN TOOL KIT, SEE PAGE UP3-12.

* - Revised illustration.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

MAIN HYDRAULIC SYSTEMS
Hydraulic Hosing to Joystick & Foot Operated Circuit
Starting Serial No. 0232412
Original Issue 8-99
Revised 8-24-01

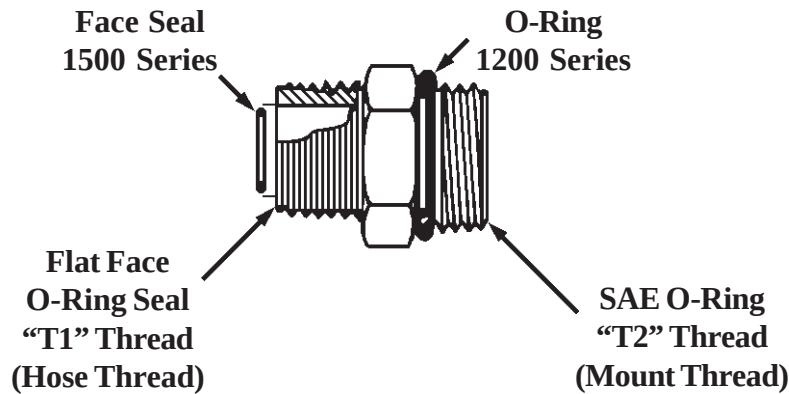


Item	Part No.	Qty.	Description Of Part
1		Ref	JOYSTICK ASSY, L.H., (see page UP4-26 for details)
2	8866-2005	6	CONNECTOR, (includes item 3)
3	8859-1204	12	O-RING
4	8471-8705	4	HOSE ASSY
5		1	ACCUMULATOR MOUNT WELDMENT, (supplied with frame)
6	8024-1205	1	ACCUMULATOR CLAMP PLATE
7	8820-1029	2	HEX HD CAPSCREW, 5/16-18X3-1/4, GR5
8	8856-1003	2	FLAT WASHER, 5/16
9	8023-3202	2	ACCUMULATOR
10	8866-2065	2	ELBOW, 90 DEGREES, (includes item 11)
11	8859-1205	2	O-RING
12	8471-9129	2	HOSE ASSY
13	8852-1305	2	HEX NUT, 5/16-18
14		Ref	JOYSTICK LOCKOUT VALVE, (see page UP4-33 for details)
15	8366-1316	3	ADAPTER, (includes o-ring)
16	8471-8349	2	HOSE ASSY
17	8866-2239	2	SWIVEL NUT RUN TEE

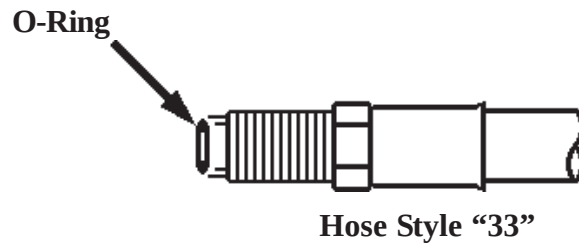
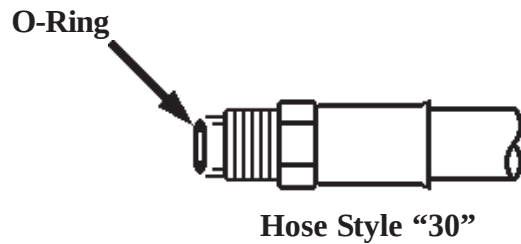
Item	Part No.	Qty.	Description Of Part
18	8866-2105	3	ELBOW, 90 DEGREES, (swivel nut)
19	8820-1007	2	HEX HD CAPSCREW, 1/4-20X1-1/2, GR5
20	8471-8735	2	HOSE ASSY
21		Ref	BRAKE VALVE ASSY, (see page UP4-32 for details)
22	8023-3134	1	STEERING CONTROL ASSY
23		Ref	FOOT OPERATED PEDAL CONTROL VALVE ASSY, (see page UP4-11 for details)
24	8319-3009	2	CONNECTOR, (includes o-ring)
25	8023-3216	1	CONNECTOR, (includes o-ring)
26	8471-8203	1	HOSE ASSY
27	8471-8872	1	HOSE ASSY
28	8471-8879	1	HOSE ASSY
29	8023-3044	2	BULKHEAD TEE
30	8023-3214	2	ADAPTER, (includes o-ring)
31		Ref	JOYSTICK ASSY, (see page UP4-34 for details)
*32	8023-3196	1	RUN TEE, (includes o-ring)
*33	8093-3313	1	PRESSURE SWITCH

* - Changed part numbers on items 32 & 33; removed item 34.

TT



Part Number	"T1" Thread O-Ring	"T2" Thread O-Ring	Part Number	"T1" Thread O-Ring	"T2" Thread O-Ring
8033-3183	8859-1505	8859-1204	8866-2341	8859-1508	8859-1207
8043-3047	8859-1508	8859-1205	8866-2342	8859-1509	8859-1209
8043-3132	8859-1503	8859-1202	8866-2345	8859-1503	8859-1202
8043-3189	8859-1505	8859-1205	8866-2346	8859-1505	8859-1204
8098-3034	8859-1509	8859-1207	8866-2347	8859-1506	8859-1205
8866-2300	8859-1503	8859-1202	8866-2348	8859-1507	8859-1206
8866-2301	8859-1505	8859-1204	8866-2349	8859-1508	8859-1207
8866-2302	8859-1506	8859-1205	8866-2350	8859-1509	8859-1209
8866-2303	8859-1507	8859-1206	8866-2417	8859-1503	8859-1202
8866-2304	8859-1508	8859-1207	8866-2418	8859-1505	8859-1204
8866-2305	8859-1509	8859-1209	8866-2419	8859-1506	8859-1205
8866-2306	8859-1508	8859-1209	8866-2420	8859-1507	8859-1206
8866-2308	8859-1510	8859-1210	8866-2421	8859-1508	8859-1207
8866-2309	8859-1509	8859-1207	8866-2422	8859-1509	8859-1209
8866-2310	8859-1505	8859-1205	8866-2423	8859-1510	8859-1210
8866-2311	8859-1508	8859-1206	8866-2424	8859-1511	8859-1211
8866-2312	8859-1506	8859-1207	8866-2425	8859-1508	8859-1209
8866-2313	8859-1510	8859-1209	8866-2428	8859-1507	8859-1206
8866-2314	8859-1507	8859-1205	8866-2429	8859-1508	8859-1209
8866-2315	8859-1510	8859-1207	8866-2430	8859-1506	8859-1206
8866-2316	8859-1508	8859-1205	8866-2431	8859-1505	8859-1206
8866-2320	8859-1503	8859-1202	8866-2432	8859-1505	8859-1205
8866-2321	8859-1505	8859-1204	8866-2435	8859-1506	8859-1206
8866-2322	8859-1506	8859-1205	8866-2436	8859-1506	8859-1207
8866-2323	8859-1507	8859-1206	8866-2440	8859-1506	8859-1204
8866-2324	8859-1508	8859-1207	8866-2442	8859-1510	8859-1211
8866-2325	8859-1509	8859-1209	8866-2444	8859-1505	8859-1202
8866-2326	8859-1510	8859-1210	8866-2445	8859-1505	8859-1202
8866-2327	8859-1509	8859-1207	8866-2447	8859-1505	8859-1205
8866-2328	8859-1503	8859-1202	8866-2448	8859-1505	8859-1207
8866-2329	8859-1505	8859-1204	8866-2454	8859-1509	8859-1210
8866-2330	8859-1506	8859-1205	8866-2455	8859-1510	8859-1209
8866-2331	8859-1507	8859-1206	8866-2470	8859-1511	8859-1211
8866-2332	8859-1508	8859-1207	8866-2471	8859-1503	8859-1204
8866-2333	8859-1509	8859-1209	8866-2477	8859-1507	8859-1207
8866-2334	8859-1510	8859-1210	8866-2478	8859-1509	8859-1210
8866-2335	8859-1508	8859-1206	8866-2486	8859-1506	8859-1204
8866-2336	8859-1509	8859-1207	8866-2487	8859-1505	8859-1206
8866-2337	8859-1503	8859-1202	8866-2489	8859-1503	8859-1204
8866-2338	8859-1505	8859-1204	8866-2490	8859-1511	8859-1211
8866-2339	8859-1506	8859-1205	8866-2495	8859-1511	8859-1210
8866-2340	8859-1507	8859-1206			



Part Number	Fitting Size	O-Ring Part Number	Hose End Style
8471-8973	1-3/16-12	8859-1508	30
8471-9054	1-3/16-12	8859-1508	30
8471-9055	1-3/16-12	8859-1508	30
8471-9102	13/16-16	8859-1506	30
8471-9103	13/16-16	8859-1506	30
8471-9130	1-3/16-12	8859-1508	30
8471-9131	1-3/16-12	8859-1508	30
8471-9132	1-3/16-12	8859-1508	30
8471-9133	1-14	8859-1507	30
8471-9134	1-14	8859-1507	30
8471-9135	13/16-16	8859-1506	30
8471-9136	13/16-16	8859-1506	30
8471-9137	13/16-16	8859-1506	30
8471-9138	1-14	8859-1507	30
8471-9139	1-14	8859-1507	30
8471-9140	13/16-16	8859-1506	30
8471-9160	13/16-16	8859-1506	30
8471-9161	13/16-16	8859-1506	30
8471-9239 1st end	11/16-16	8859-1505	33
8471-9239 2nd end	13/16-16	8859-1506	30
8471-9253	11/16-16	8859-1505	30
8471-9254	13/16-16	8859-1506	30
8471-9255	13/16-16	8859-1506	30
8471-9346	13/16-16	8859-1506	30
8471-9507	11/16-16	8859-1505	30
8471-9514	13/16-16	8859-1506	30

GRADALL

HYDRAULIC EXCAVATOR

Upperstructure

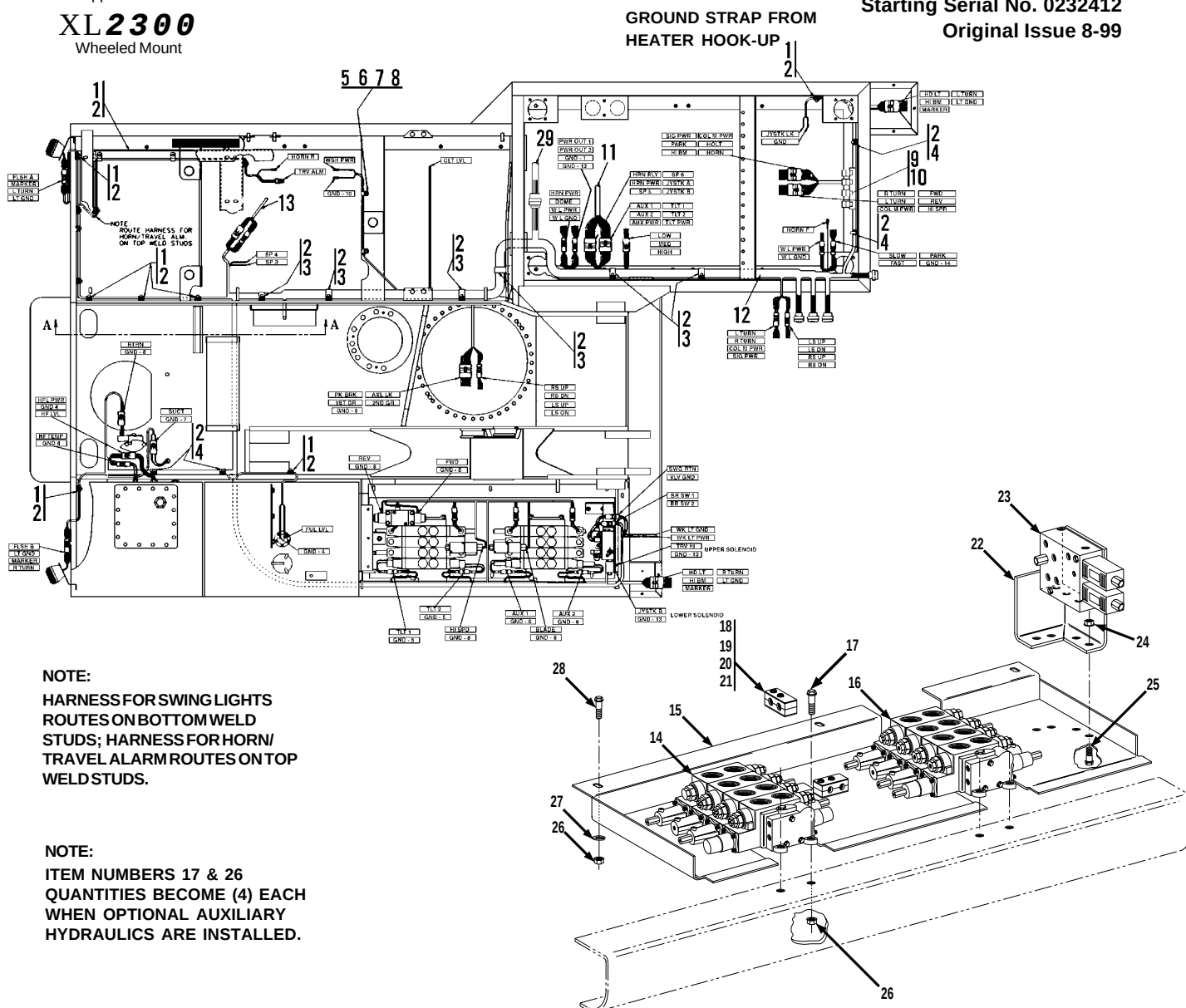
XL2300

Wheeled Mount

PILOT HYDRAULIC SYSTEMS**Clamp Sets & Miscellaneous Hydraulic Components**

Starting Serial No. 0232412

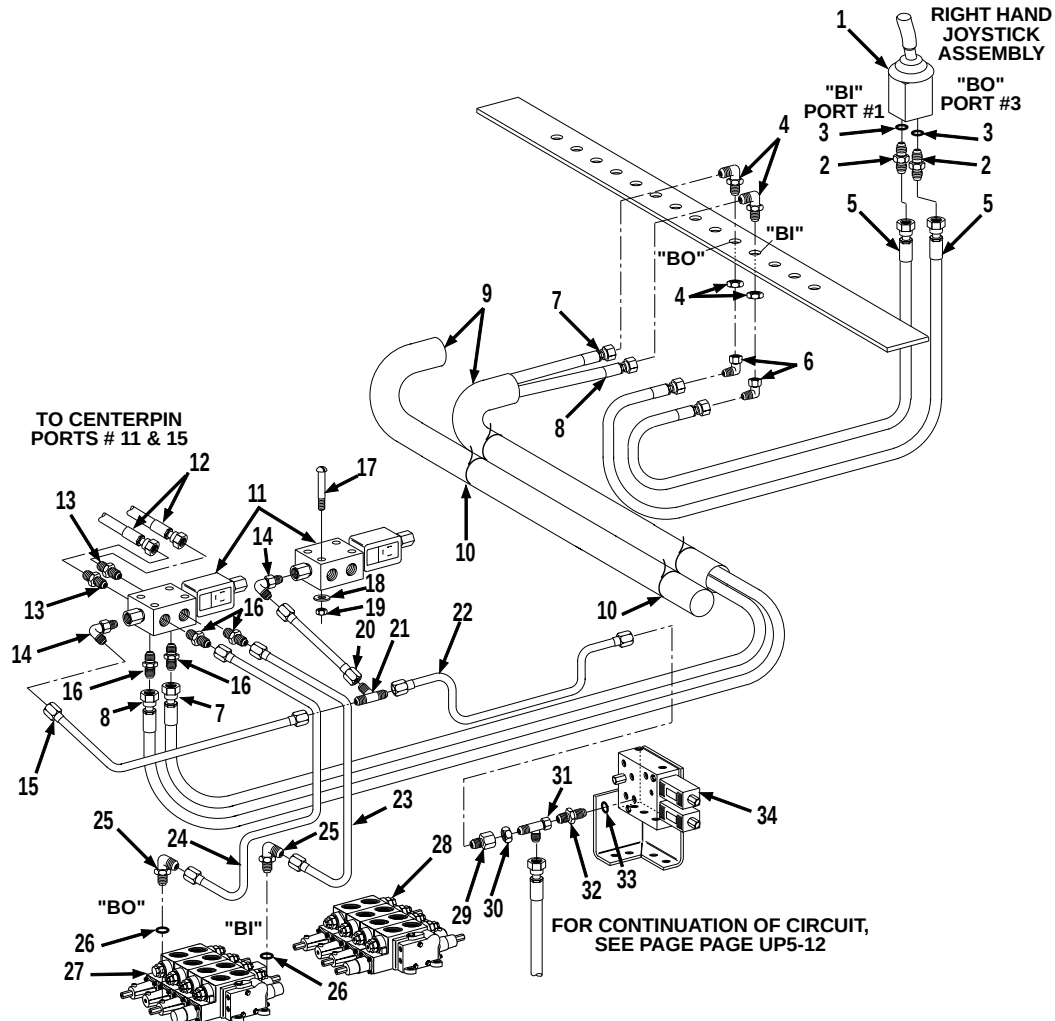
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8594-1016	14	SUPPORT CLAMP, 1/2	15	8023-6002	1	VALVE TRAY
2	7714-3015	24	WHIZ-LOK NUT, 3/8-16	16		Ref	TOOL, HOIST, PROPEL & AUXILIARY HYDRAULIC CONTROL VALVE, (see page UP4-17 for details)
3	8503-1405	6	SUPPORT CLAMP, 1-1/2	17	8097-3096	4	WHIZ-LOK SCREW, 3/8-16X1-1/2
4	2486-1170	4	SUPPORT CLAMP, 11/16	18	8093-3097	4	CLAMP HALF
5	9120-3039	2	SUPPORT CLAMP, 1/4	19	8093-1020	2	COVER PLATE
6	8820-1003	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	20	8820-1006	4	HEX HD CAPSCREW, 1/4-20X1-1/4, GR5
7	7714-3013	2	WHIZ-LOK NUT, 1/4-20	21	8855-1009	4	LOCKWASHER, 1/4
8	8855-1009	2	LOCKWASHER, 1/4	22	8023-1006	1	VALVE BRACKET
9	8830-1072	4	ROUND HD MACHINE SCREW, #8-32X5/8	23		Ref	COMBINATION VALVE ASSY, (see page UP4-16 for details)
10	8850-1610	4	HEX NUT, #8-32	24	7714-3006	4	WHIZ-LOK NUT, 5/16-18
11	8026-3013	1	SEAT HARNESS	25	7714-3004	4	WHIZ-LOK SCREW, 5/16-18X1-1/4
12	8026-3004	1	UPPER HARNESS	26	7714-3015	7	WHIZ-LOK NUT, 3/8-16
13	8026-3073	1	ENGINE HARNESS	27	8855-1011	3	LOCKWASHER, 3/8
14		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC CONTROL VALVE, (see page UP4-22 for details)	28	8820-1043	3	HEX HD CAPSCREW, 3/8-16X3, GR5
				29	8026-3121	1	CONSOLE HARNESS

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

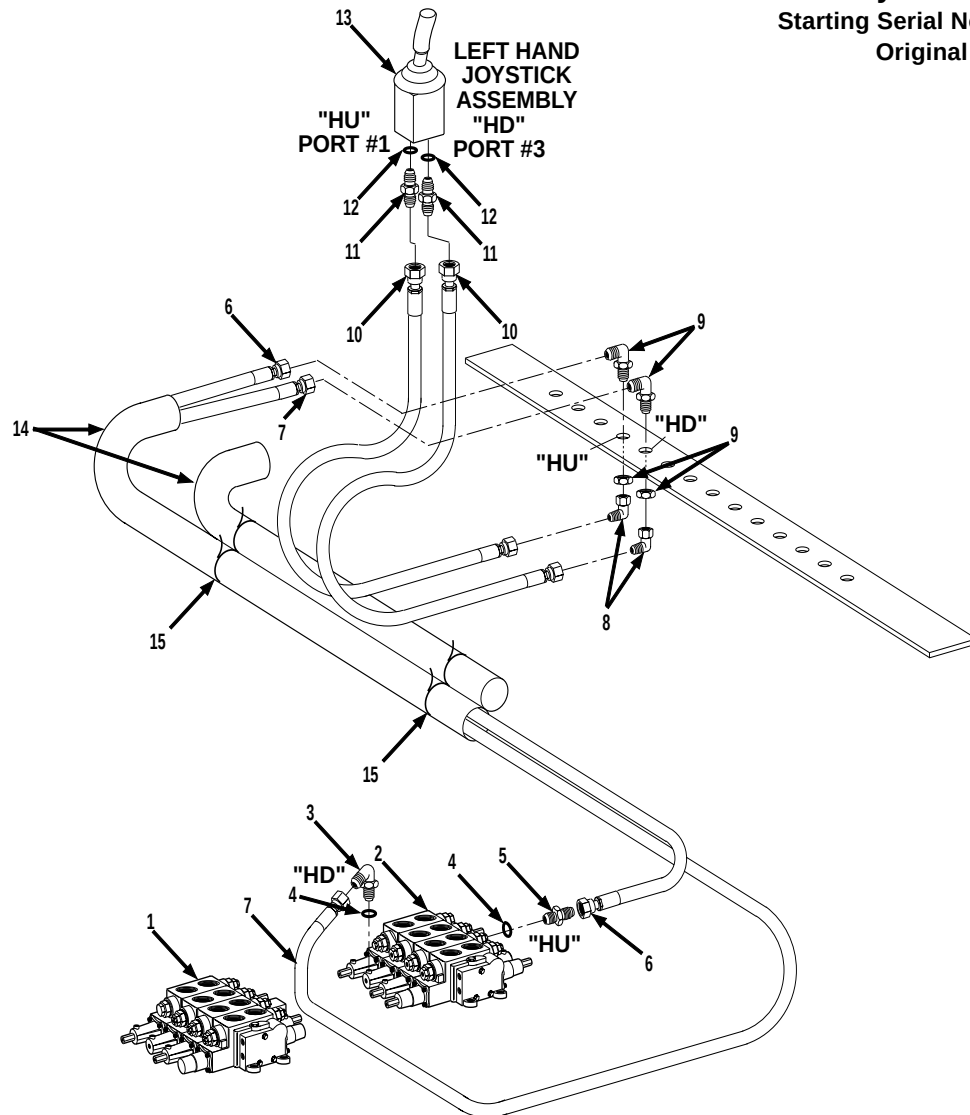
PILOT HYDRAULIC SYSTEMS
Boom Pilot Hydraulic Circuit
Starting Serial No. 0232412
Original Issue 8-99
Revised 1-5-01



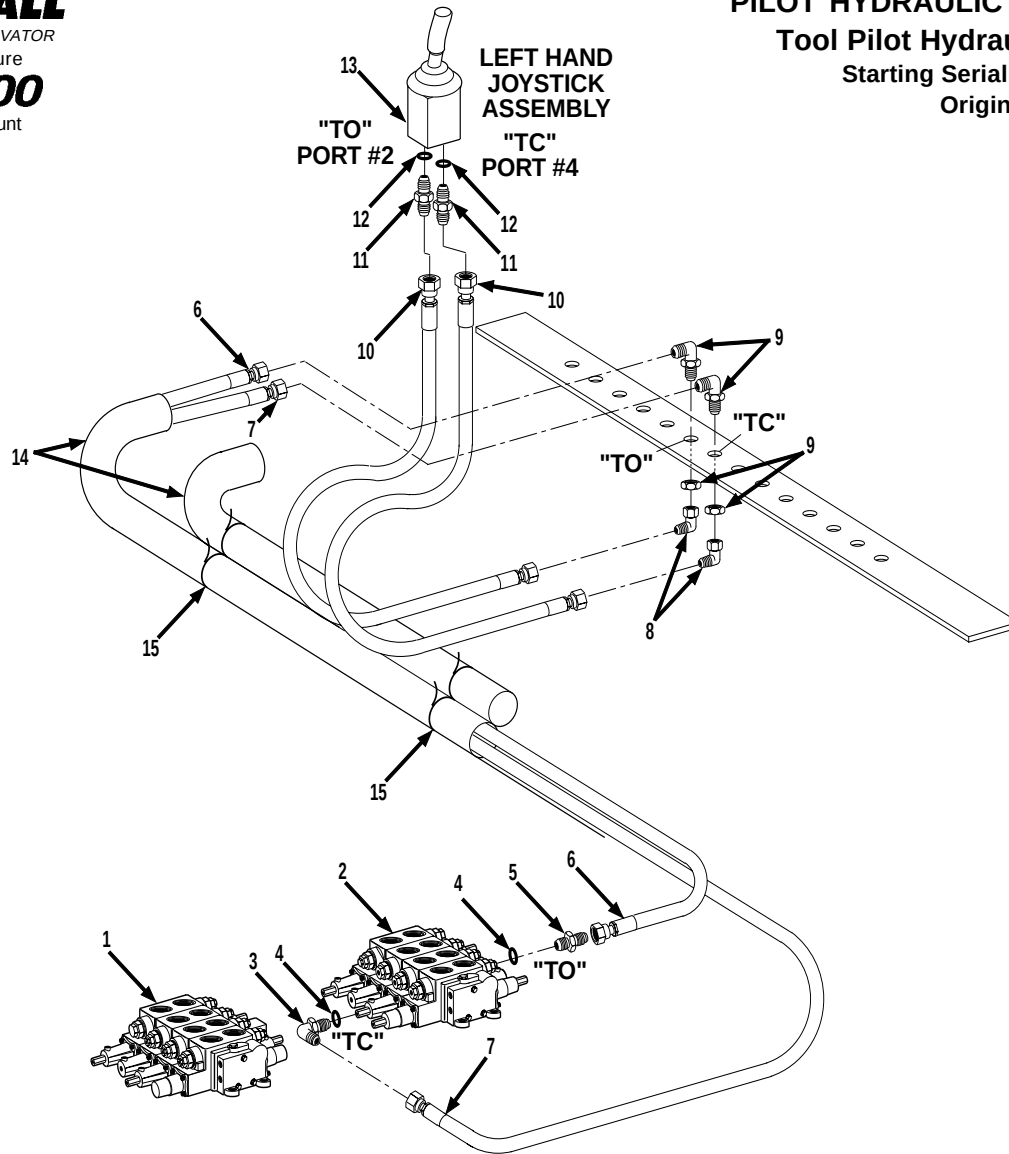
Item	Part No.	Qty.	Description Of Part
1		Ref	JOYSTICK ASSY, (see page UP4-26 for details)
2	8866-2017	2	CONNECTOR, (includes item 3)
3	8859-1204	2	O-RING
4	8023-3050	2	BULKHEAD ELBOW, 90 DEGREES
5	8471-8705	2	HOSE ASSY
6	8866-2103	2	ELBOW, 90 DEGREES, (swivel nut)
7	8471-9194	1	HOSE ASSY
8	8471-9011	1	HOSE ASSY
9	8395-3053	2	SLEEVE
10		4	TY-RAP
*11		Ref	SIX-WAY VALVE ASSY, (see page UP 6-5 for details)
12	8471-9195	2	HOSE ASSY
13	8023-3218	2	ADAPTER, (includes o-ring)
14	8023-3144	2	ELBOW, 90 DEGREES, (includes o-ring)
15	8023-3160	1	TUBE ASSY
16	8023-3143	4	ADAPTER, (includes o-ring)
17	8830-1103	8	ROUND HD MACHINE SCREW, #10-24X2-3/4
18	8856-1105	8	FLAT WASHER, #10

Item	Part No.	Qty.	Description Of Part
19	8852-1605	8	HEX LOCKNUT, #10-24
20	8023-3161	1	TUBE ASSY
21	8866-1303	1	UNION TEE
22	8023-3159	1	TUBE ASSY
23	8023-3164	1	TUBE ASSY
24	8023-3163	1	TUBE ASSY
25	8866-2062	2	ELBOW, 90 DEGREES, (includes item 26)
26	8859-1202	2	O-RING
27		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)
28		Ref	TOOL, HOIST, PROPEL & AUXILIARY HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
29	8866-1340	1	TUBE END REDUCER, 3/8X1/4
30	8866-1405	1	HEX NUT
31	8866-2239	1	SWIVEL NUT RUN TEE
32	8866-2005	1	CONNECTOR, (includes item 33)
33	8859-1204	1	O-RING
34		Ref	COMBINATION VALVE ASSY, (see page UP4-16 for details)

* - Changed note on item 11.



Item	Part No.	Qty.	Description Of Part
1		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)
2		Ref	TOOL, HOIST & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
3	8866-2062	1	ELBOW, 90 DEGREES, (includes item 4)
4	8859-1202	2	O-RING
5	8866-2003	1	CONNECTOR, (includes item 4)
6	8471-8869	1	HOSE ASSY
7	8471-9012	1	HOSE ASSY
8	8866-2103	2	ELBOW, 90 DEGREES, (swivel nut)
9	8023-3050	2	BULKHEAD ELBOW
10	8471-8705	2	HOSE ASSY
11	8866-2017	2	CONNECTOR, (includes item 12)
12	8859-1204	2	O-RING
13		Ref	JOYSTICK ASSY, (see page UP4-26 for details)
14	8395-3053	2	SLEEVE, 16"
15		4	TY-RAP

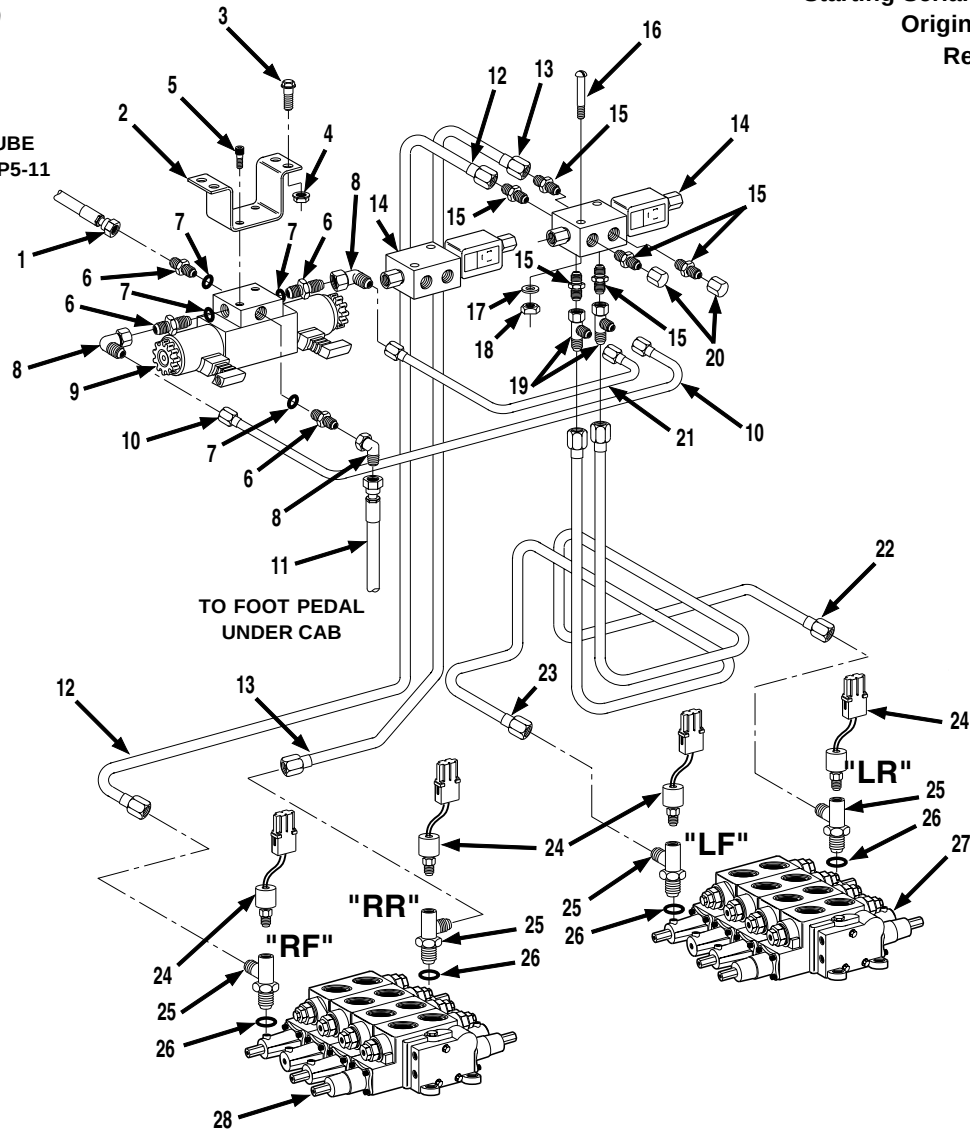


Item	Part No.	Qty.	Description Of Part
1		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)
2		Ref	TOOL, HOIST & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
3	8866-2062	1	ELBOW, 90 DEGREES, (includes item 4)
4	8859-1202	2	O-RING
5	8866-2003	1	CONNECTOR, (includes item 4)
6	8471-9009	1	HOSE ASSY
7	8471-9013	1	HOSE ASSY
8	8866-2103	2	ELBOW, 90 DEGREES, (swivel nut)
9	8023-3050	2	BULKHEAD ELBOW
10	8471-8705	2	HOSE ASSY
11	8866-2017	2	CONNECTOR, (includes item 12)
12	8859-1204	2	O-RING
13		Ref	JOYSTICK ASSY, (see page UP4-26 for details)
14	8395-3053	2	SLEEVE, 16"
15		4	TY-RAP

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

PILOT HYDRAULIC SYSTEMS
Propel Pilot Hydraulic Circuit
Starting Serial No. 0232412
Original Issue 8-99
Revised 1-5-00

TO DUMP TUBE
SEE PAGE UP5-11



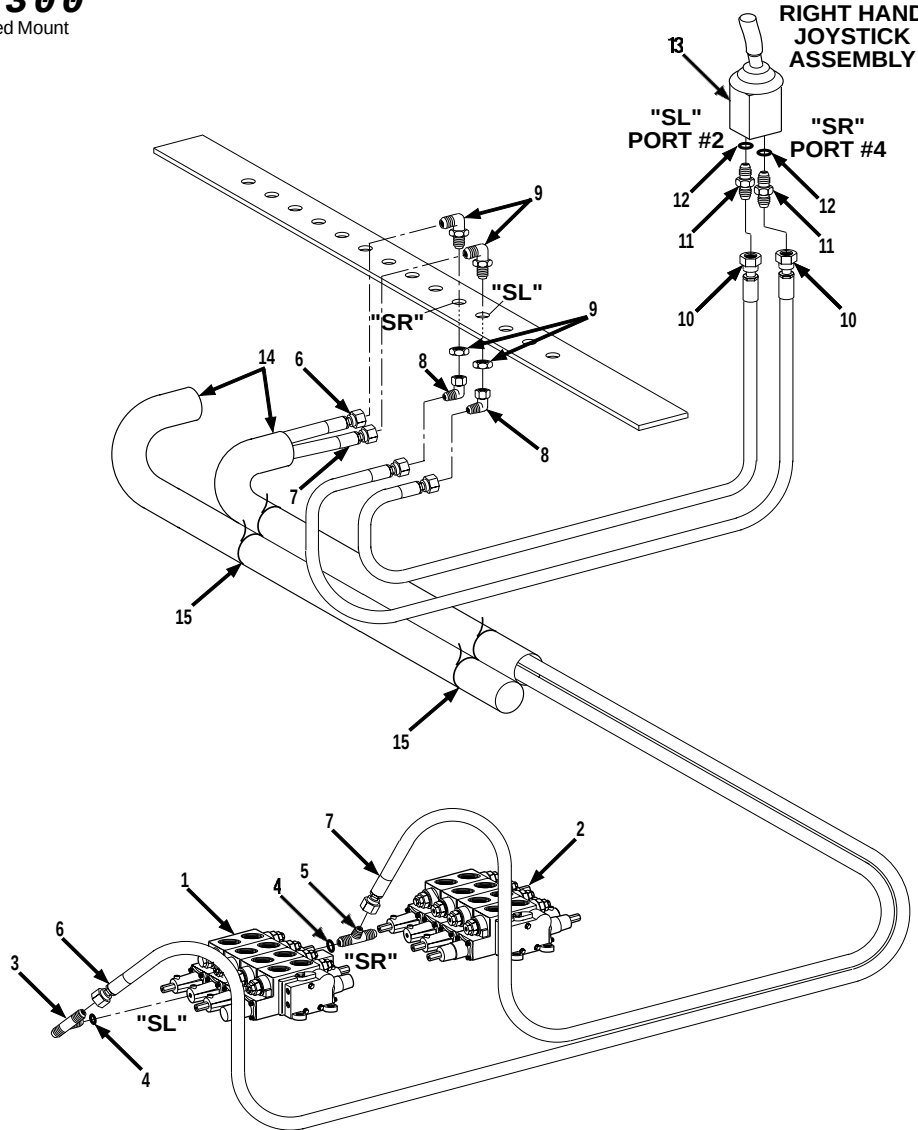
Item	Part No.	Qty.	Description Of Part
1	8471-9158	1	HOSE ASSY
2	8024-1185	1	BRACKET
3	7714-3003	4	WHIZ-LOK SCREW, 5/16-18X5/8
4	8852-1305	4	HEX LOCKNUT, 5/16-18
5		2	MOUNT SCREW, (supplied with item 9)
6	8866-2017	4	CONNECTOR, (includes item 7)
7	8859-1204	4	O-RING
8	8866-2103	3	ELBOW, 90 DEGREES, (swivel nut)
9	8023-5020	1	FORWARD/REVERSE VALVE ASSY
10	8023-3192	1	TUBE ASSY
11	8471-9156	1	HOSE ASSY
12	8023-3156	1	TUBE ASSY
13	8023-3155	1	TUBE ASSY
*14	8023-3137	2	SIX-WAY VALVE ASSY
15	8023-3143	10	ADAPTER
16	8830-1103	4	ROUND HD MACHINE SCREW, #10-24X2-3/4

Item	Part No.	Qty.	Description Of Part
17	8856-1105	4	FLAT WASHER, #10
18	8852-1605	4	HEX LOCKNUT, #10-24
19	8866-2337	2	SWIVEL NUT RUN TEE
20	8866-1362	2	HEX CAP, 1/4 TUBE
21	8023-3191	1	TUBE ASSY
22	8023-3157	1	TUBE ASSY
23	8023-3158	1	TUBE ASSY
24	8093-3313	4	PRESSURE SWITCH
25	8023-3075	4	ADAPTER RUN TEE, (includes item 26)
26	8859-1202	4	O-RING
27		Ref	TOOL, HOIST & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
28		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)

* - Changed part number on item 14.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

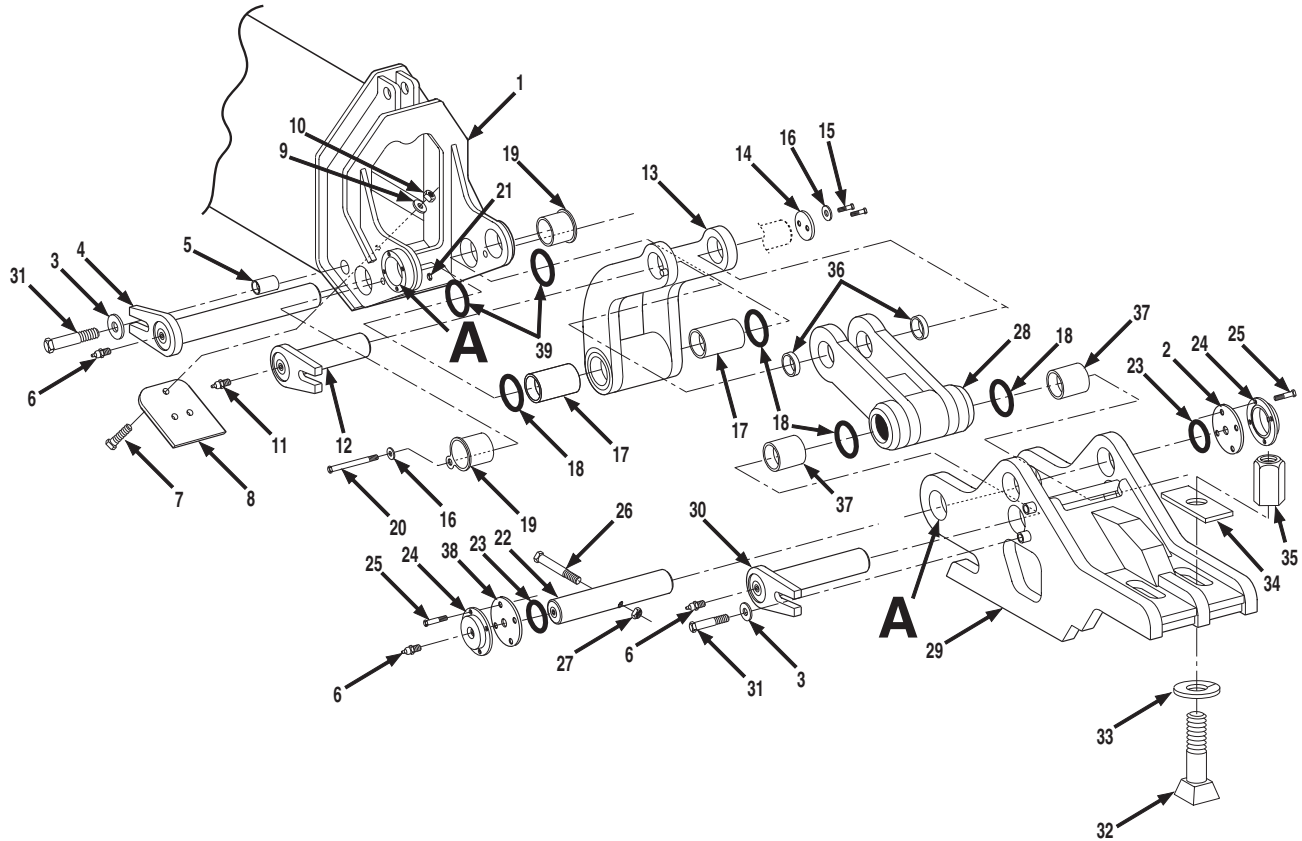
PILOT HYDRAULIC SYSTEMS
Swing Pilot Hydraulic Circuit
Starting Serial No. 0232412
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
1		Ref	TILT, BOOM, SWING & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-22 for details)
2		Ref	TOOL, HOIST & PROPEL HYDRAULIC VALVE ASSY, (see page UP4-17 for details)
3	8866-2150	1	BRANCH TEE, (includes item 4)
4	8859-1202	2	O-RING
5	8866-2137	1	RUN TEE, (includes item 4)
6	8471-8877	1	HOSE ASSY
7	8471-9015	1	HOSE ASSY
8	8866-2103	2	ELBOW, 90 DEGREES, (swivel nut)
9	8023-3050	2	BULKHEAD ELBOW
10	8471-8705	2	HOSE ASSY
11	8866-2017	2	CONNECTOR, (includes item 12)
12	8859-1204	2	O-RING
13		Ref	JOYSTICK ASSY, (see page UP4-26 for details)
14	8395-3053	2	SLEEVE, 16"
15		4	TY-RAP

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

ATTACHMENTS
Bucket Linkage
Starting Serial No. 0232412
Original Issue 8-99
Revised 9-22-06



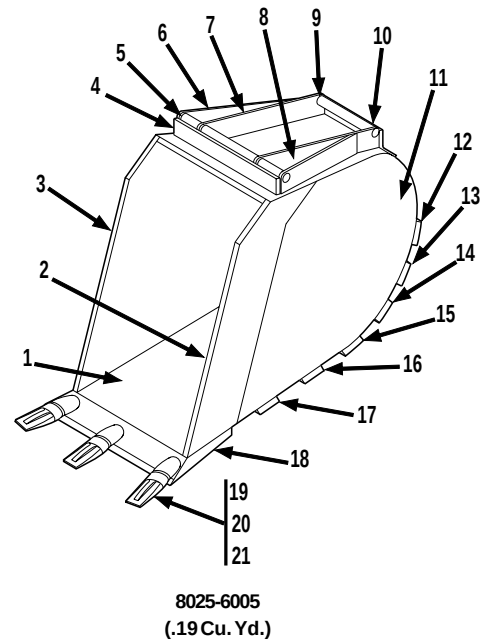
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8022-5020	AR	BOOM END KIT, (includes all items except 1, 5, 13, 17, 28, 29, 36 & 37)	20	8820-1038	2	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5
		Ref	TOOLEYE WELDMENT, (see page UP2-4 for details), (includes item 5)	21	8850-1006	2	HEX NUT, 3/8-16
*2	8022-1058	2	WASHER	22	8022-1285	1	PIN WELDMENT
3	8362-1283	4	SPECIAL WASHER	23	8859-1117	2	O-RING
4	8022-6032	1	PIN WELDMENT	24	8022-1052	2	PIN CAP
*5	8042-1119	1	THREADED STUD	25	8320-1091	8	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5, (lubricate & torque to 40-45 ft. lbs.)
6	8867-1001	10	LUBE FITTING, STRAIGHT, 1/8	26	8320-1131	1	HEX HD CASPCREW, 1/2-13X4-1/2, GR5
7	8320-1043	3	HEX HD CAPSCREW, 1/2-13X2-1/4, GR8, (lubricate & torque to 100-110 ft. lbs)	27	8852-1008	1	HEX LOCKNUT, 1/2-13
8	8022-1243	1	TOOLEYE CAP	28	8022-6005	1	STRAIGHT LINK, (includes items 36 & 37)
9	8855-1013	5	LOCKWASHER, 1/2	29	8022-6036	1	BUCKET ADAPTER
10	8850-1008	3	HEX NUT, 1/2-13	30	8022-6031	1	PIN WELDMENT
11	8362-3019	2	O-RING	*31	8320-1129	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8, (torque to 68-73 ft-lb)
12	8022-6033	1	PIN WELDMENT	32	8092-6029	2	WEDGE BOLT WELDMENT
13	8022-6006	1	CURVED LINK, (includes item 17)	33	8855-1018	2	LOCKWASHER, 1"
14	8022-1059	1	PIN WASHER	34	8092-1159	2	RECTANGULAR WASHER
15	8820-1033	2	HEX HD CAPSCREW, 3/8-16X3/4, GR5	35	8092-1174	2	HIGH NUT
16	8855-1011	4	LOCKWASHER, 3/8	36	8022-3021	2	BUSHING, (bronze)
17	8042-3042	2	BUSHING	37	8042-3042	2	BUSHING
18	8362-3017	4	O-RING				
19	8022-1176	2	BUSHING				

* - Changed part number on items 2, 5 & 31; removed item 38; revised illustration.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

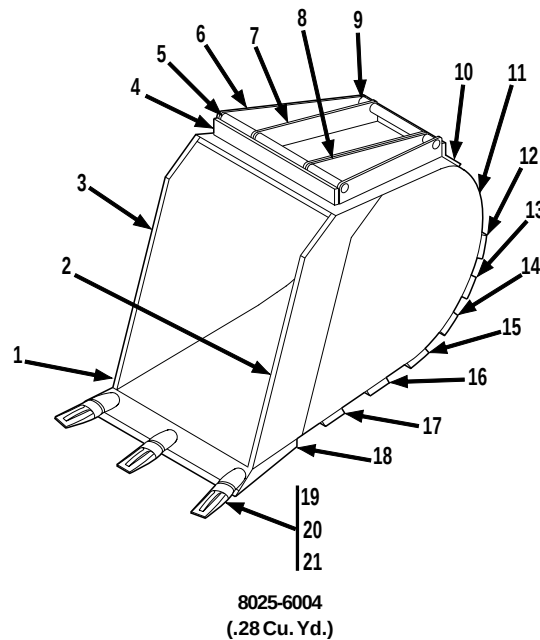
ATTACHMENTS
Starting Serial No. 0232412
Original Issue 8-99
Revised 9-17-03

Item	Part No.	Qty.	Description Of Part
	8025-6005	1	18" EXCAVATING BUCKET, (includes all items)
1	8025-1051	1	BOTTOM PLATE
2	8025-1152	1	CUTTING EDGE, L.H.
3	8025-1153	1	CUTTING EDGE, R.H.
4	8025-1050	1	FRONT STIFFENER
5	8025-1054	1	FRONT PIN
6	8025-1048	2	END PLATE
*7	8025-1293	2	SUPPORT PLATE
8	8025-1047	2	TOP PLATE
9	8025-1053	1	REAR PIN
10	8025-1049	1	REAR STIFFENER
11	8025-1005	2	SIDE PLATE
12	8025-1059	1	WEAR STRIP
13	8025-1056	1	WEAR STRIP
14	8025-1058	1	WEAR STRIP
15	8025-1057	1	WEAR STRIP
16	8025-1055	1	WEAR STRIP
17	8065-1091	1	WEAR STRIP
18	8025-1060	1	FRONT CUTTING EDGE
19	8025-3003	3	LOCK PIN
20	8025-3002	3	TOOTH
21	8025-3001	3	TOOTH ADAPTER



* - Changed part number on item 7.

Item	Part No.	Qty.	Description Of Part
	8025-6004	1	24" EXCAVATING BUCKET, (includes all items)
1	8025-1072	1	BOTTOM PLATE
2	8025-1152	1	CUTTING EDGE, L.H.
3	8025-1153	1	CUTTING EDGE, R.H.
4	8025-1077	1	FRONT STIFFENER
5	8025-1076	1	FRONT PIN
6	8025-1081	2	END PLATE
*7	8025-1293	2	SUPPORT PLATE
8	8025-1078	2	TOP PLATE
9	8025-1075	1	REAR PIN
10	8025-1080	1	REAR STIFFENER
11	8025-1005	2	SIDE PLATE
12	8025-1071	1	WEAR STRIP
13	8025-1071	1	WEAR STRIP
14	8065-1222	1	WEAR STRIP
15	8065-1391	1	WEAR STRIP
16	8345-1291	1	WEAR STRIP
17	8065-1113	1	WEAR STRIP
18	8025-1074	1	FRONT CUTTING EDGE
19	8025-3003	3	LOCK PIN
20	8025-3002	3	TOOTH
21	8025-3001	3	TOOTH ADAPTER



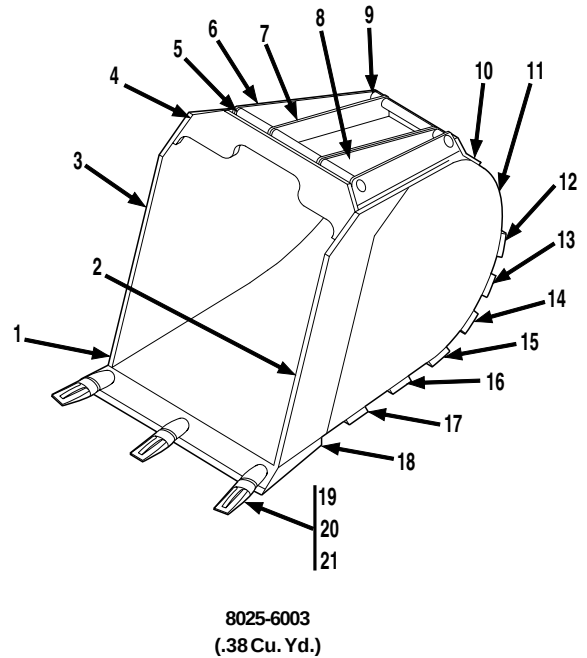
* - Changed part number on item 7.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

ATTACHMENTS
Starting Serial No. 0232412
Original Issue 8-99
Revised 9-17-03

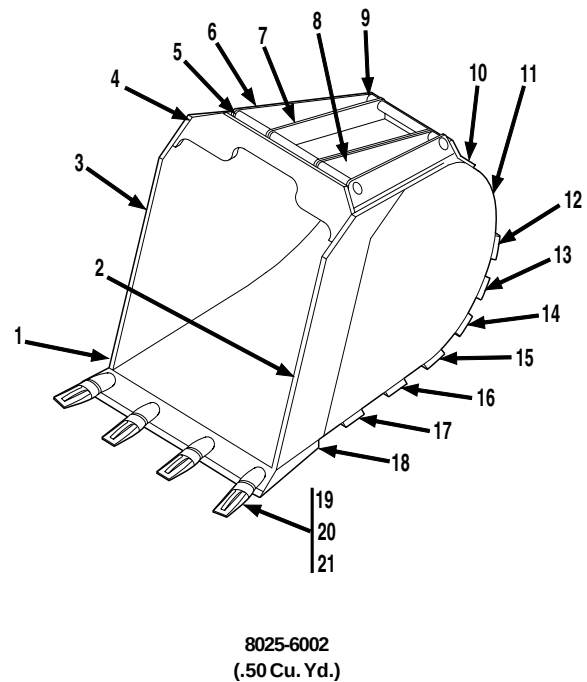
Item	Part No.	Qty.	Description Of Part
	8025-6003	1	30" EXCAVATING BUCKET, (includes all items)
1	8025-1069	1	BOTTOM PLATE
2	8025-1152	1	CUTTING EDGE, L.H.
3	8025-1153	1	CUTTING EDGE, R.H.
4	8025-1066	1	FRONT STIFFENER
5	8025-1064	1	FRONT PIN
6	8025-1008	2	END PLATE
*7	8025-1293	2	SUPPORT PLATE
8	8025-1065	2	TOP PLATE
9	8025-1063	1	REAR PIN
10	8025-1067	1	REAR STIFFENER
11	8025-1005	2	SIDE PLATE
12	8345-1289	1	WEAR STRIP
13	8065-1392	1	WEAR STRIP
14	8025-1062	1	WEAR STRIP
15	8025-1061	1	WEAR STRIP
16	8095-1104	1	WEAR STRIP
17	8065-1068	1	WEAR STRIP
18	8025-1068	1	FRONT CUTTING EDGE
19	8025-3003	3	LOCK PIN
20	8025-3002	3	TOOTH
21	8025-3001	3	TOOTH ADAPTER

* - Changed part number on item 7.



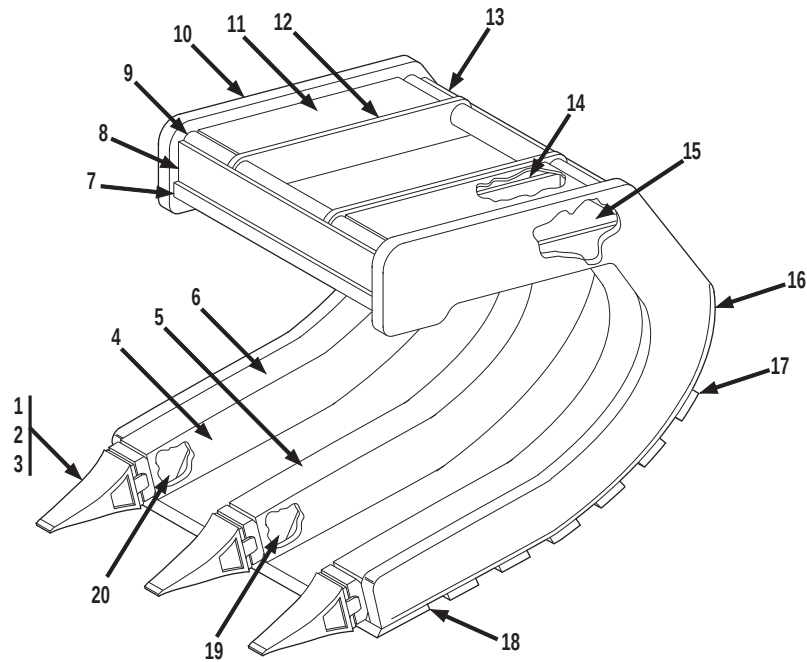
Item	Part No.	Qty.	Description Of Part
	8025-6002	1	36" EXCAVATING BUCKET, (includes all items)
1	8025-1004	1	BOTTOM PLATE
2	8025-1152	1	CUTTING EDGE, L.H.
3	8025-1153	1	CUTTING EDGE, R.H.
4	8025-1010	1	FRONT STIFFENER
5	8025-1011	1	FRONT PIN
6	8025-1008	2	END PLATE
*7	8025-1293	2	SUPPORT PLATE
8	8025-1007	2	TOP PLATE
9	8025-1012	1	REAR PIN
10	8025-1009	1	REAR STIFFENER
11	8025-1005	2	SIDE PLATE
12	8025-1013	1	WEAR STRIP
13	8025-1013	1	WEAR STRIP
14	8025-1014	1	WEAR STRIP
15	8095-1108	1	WEAR STRIP
16	8065-1071	1	WEAR STRIP
17	8065-1121	1	WEAR STRIP
18	8095-1100	1	FRONT CUTTING EDGE
19	8025-3003	4	LOCK PIN
20	8025-3002	4	TOOTH
21	8025-3001	4	TOOTH ADAPTER

* - Changed part number on item 7.



GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

ATTACHMENTS
Starting Serial No. 0232412
Original Issue 8-99
Revised 6-19-13



Item	Part No.	Qty.	Description Of Part
	8025-6006	1	PAVEMENT REMOVAL BUCKET, (includes all items)
1	8065-3001	3	TOOTH
*2		3	TOOTH SHANK, (order kit 80653002S for replacement)
3	8065-3003	3	TOOTH LOCK
4	8025-1092	4	RUNNER
5	8025-1089	1	INSIDE RUNNER PLATE
6	8025-1090	2	OUTSIDE RUNNER PLATE
7	8025-1088	1	CENTER PLATE
8	8025-1085	1	FRONT STIFFENER
9	8025-1095	2	PIN
10	8025-1083	2	END PLATE
11	8025-1292	2	STIFFENER
12	8025-1291	2	PIN SUPPORT PLATE
13	8025-1094	1	REAR STIFFENER
14	8025-1096	2	SUPPORT BAR
15	8025-1086	1	TOP PLATE
16	8025-1091	1	BOTTOM PLATE
17	8025-1014	6	WEAR STRIP
18	8025-1093	1	CUTTING EDGE
19	8065-1264	1	INSIDE REINFORCEMENT
20	8065-1263	2	OUTSIDE REINFORCEMENT
*	8065-3002S	A/R	SHANK & TOOTH KIT, (includes following two items)
	8075-3041	1	TOOTH SHANK
	8075-3033	1	TOOTH

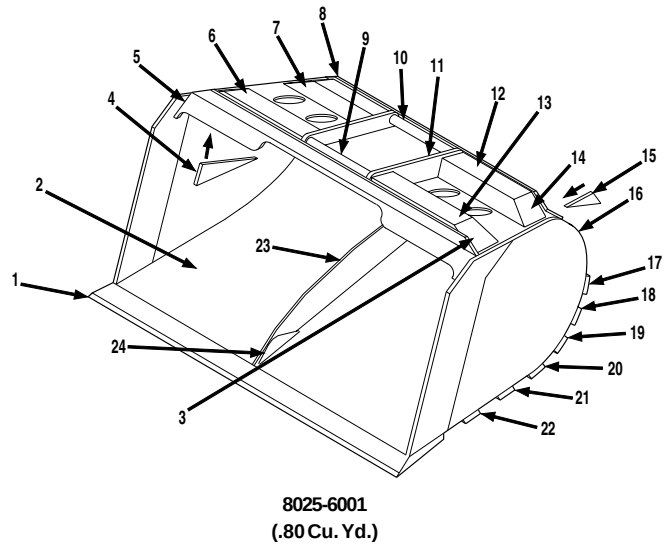
* - Removed part number and added note to item 2; added 80653002S kit.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

ATTACHMENTS
Starting Serial No. 0232412
Original Issue 8-99
Revised 9-17-03

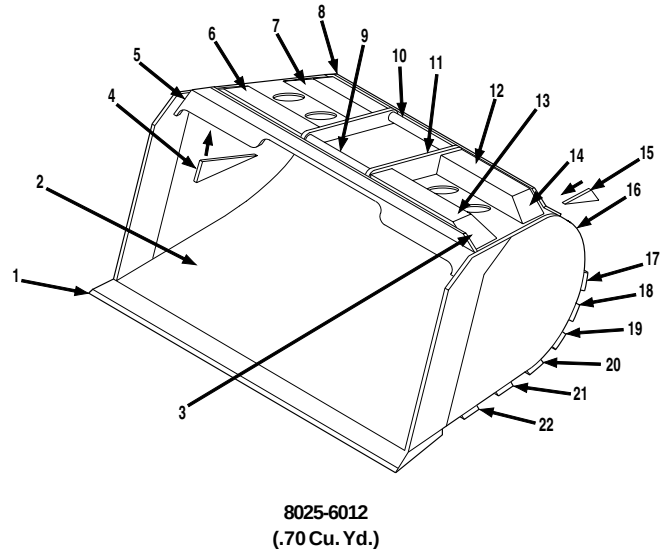
Item	Part No.	Qty.	Description Of Part
	8025-6001	1	60" DITCHING BUCKET, (includes items 1 thru 22)
	8025-5012	1	BUCKET STIFFENER KIT, (includes items 23 & 24)
1	8065-3019	1	CUTTING EDGE
2	8025-1016	1	BOTTOM PLATE
3	8025-1154	2	FORWARD END PLATE
4	8095-1054	2	GUSSET
5	8025-1028	1	FRONT STIFFENER
6	8025-1020	1	L.H. FRONT TOP STIFFENER
7	8025-1022	1	L.H. REAR TOP STIFFENER
8	8025-1027	1	REAR STIFFENER
9	8025-1030	1	FRONT PIN
10	8025-1029	1	REAR PIN
*11	8025-1290	2	SUPPORT PLATE
12	8025-1021	1	R.H. REAR TOP STIFFENER
13	8025-1019	1	R.H. FRONT TOP STIFFENER
14	8025-1023	2	REAR END PLATE
15	8025-1024	2	REAR WEDGE PLATE
16	8025-1017	2	SIDE PLATE
17	8065-1052	1	WEAR STRIP
18	8345-1296	1	WEAR STRIP
19	8065-1051	1	WEAR STRIP
20	8095-1189	1	WEAR STRIP
21	8065-1062	1	WEAR STRIP
22	8095-1191	1	WEAR STRIP
23	8025-1289	1	BUCKET STIFFENER
24	8065-1073	2	WEAR PLATE

* - Changed part number on items 11.



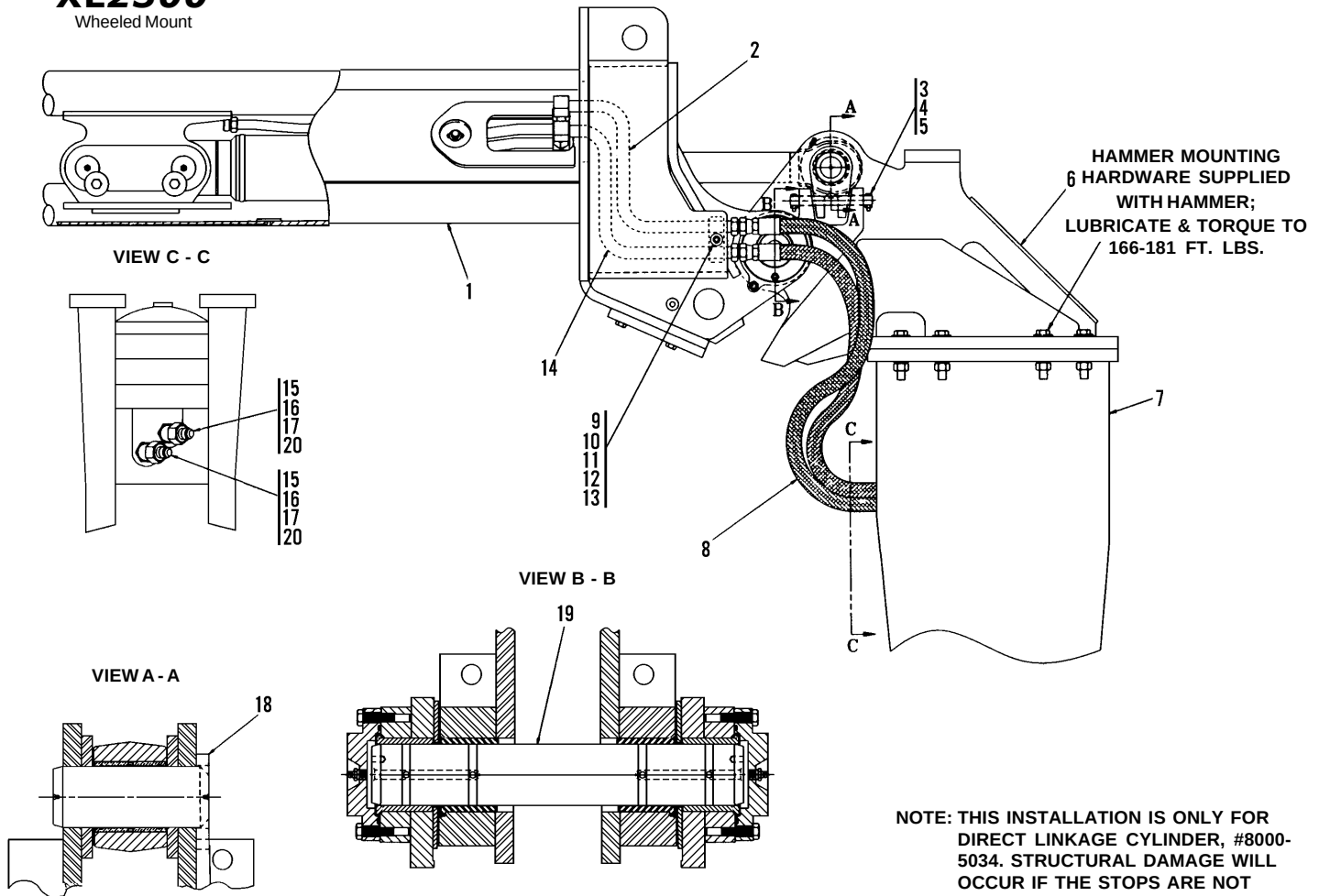
Item	Part No.	Qty.	Description Of Part
	8025-6012	1	60" CONSTANT RADIUS DITCHING BUCKET, (includes all items)
1	8065-3019	1	CUTTING EDGE
2	8025-1097	1	BOTTOM PLATE
3	8025-1154	2	FORWARD END PLATE
4	8095-1054	2	GUSSET
5	8025-1099	1	FRONT STIFFENER
6	8025-1020	1	L.H. FRONT TOP STIFFENER
7	8025-1022	1	L.H. REAR TOP STIFFENER
8	8025-1027	1	REAR STIFFENER
9	8025-1030	1	FRONT PIN
10	8025-1029	1	REAR PIN
*11	8025-1290	2	SUPPORT PLATE
12	8025-1021	1	R.H. REAR TOP STIFFENER
13	8025-1019	1	R.H. FRONT TOP STIFFENER
14	8025-1023	2	REAR END PLATE
15	8025-1024	2	REAR WEDGE PLATE
16	8025-1098	2	SIDE PLATE
17	8065-1052	1	WEAR STRIP
18	8345-1296	1	WEAR STRIP
19	8065-1051	1	WEAR STRIP
20	8095-1189	1	WEAR STRIP
21	8095-1191	1	WEAR STRIP
22	8095-1192	1	WEAR STRIP

* - Changed part number on item 11.



GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

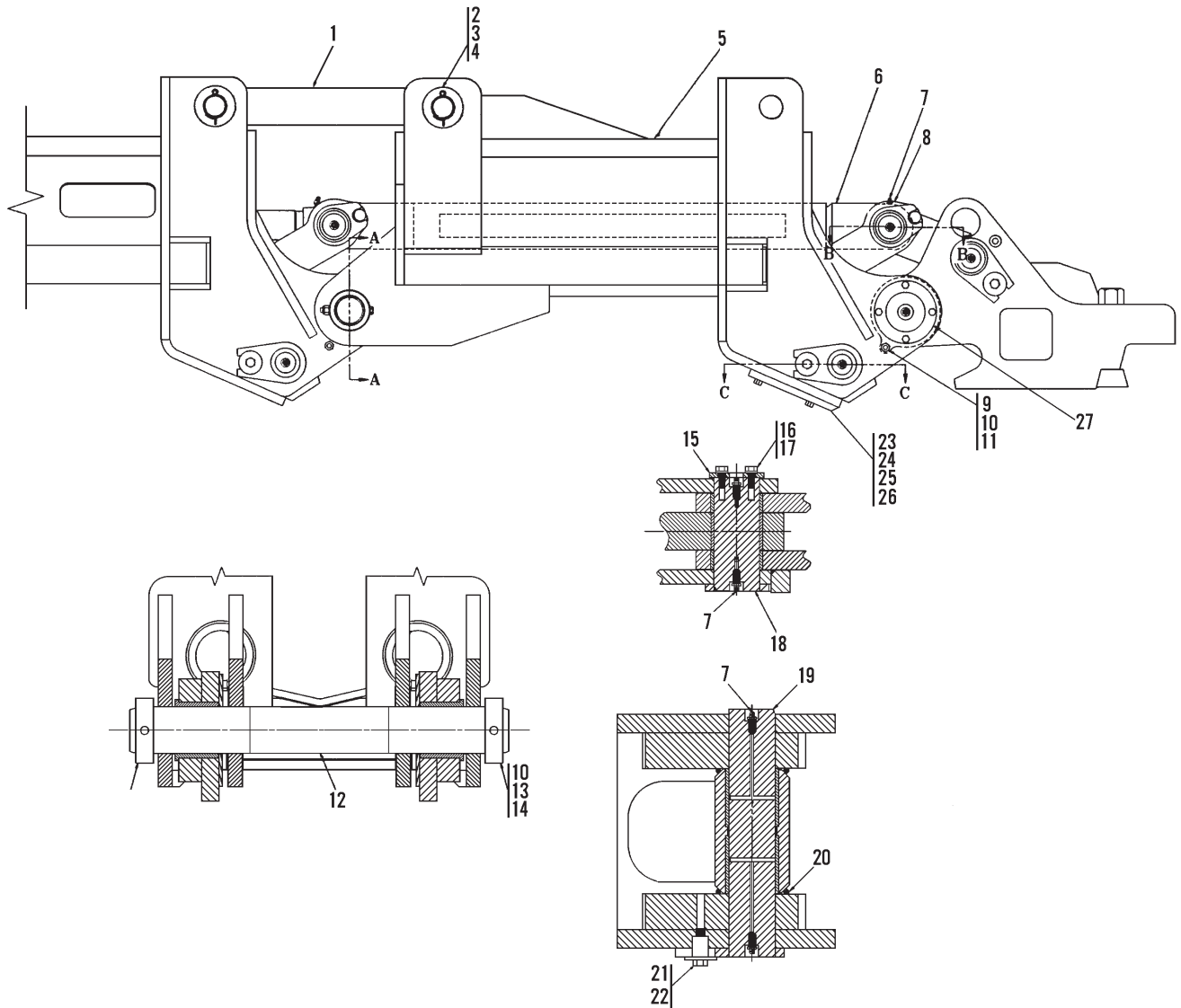
ATTACHMENTS
Starting Serial No. 0232412
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
1	8025-5003	1	RAMMER BRACKET
		Ref	INSTALLATION, (includes all itemsexcept items 1, 18 & 19) BOOM & CRADLE ASSY, (see page UP 2-1 thru UP2-6 for details)
2	8022-3062	1	TUBE ASSY
3	8325-1714	1	PIN
4	8820-1006	2	HEX HD CAPSCREW, 1/4-20X1-1/4, GR5
5	8850-1004	2	HEX NUT, 1/4-20
6	8025-6015	1	RAMMER BRACKET
7	8025-3005	1	RAMMER HAMMER
8	8471-9147	2	HOSE ASSY
9	8022-1276	2	CLAMP
10	8821-1076	1	SOCKET HD CAPSCREW, 3/8-16X2-1/4, GR8
11	8852-1006	1	HEX LOCKNUT, 3/8-16
12	8022-1293	1	SPACER
13	8856-1004	1	FLAT WASHER, 3/8
14	8022-3063	1	TUBE ASSY
15	8866-1347	2	TUBE END REDUCER, 1X3/4
16	8866-2089	2	ELBOW, 45 DEGREES, (includes item 17)
17	8859-1209	2	O-RING
18	8092-6014	1	PIN
19	8025-1129	1	PIN
20	8866-1410	2	HEX NUT, 1

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

ATTACHMENTS
Starting Serial No. 0232412
Original Issue 8-99
Revised 9-22-06

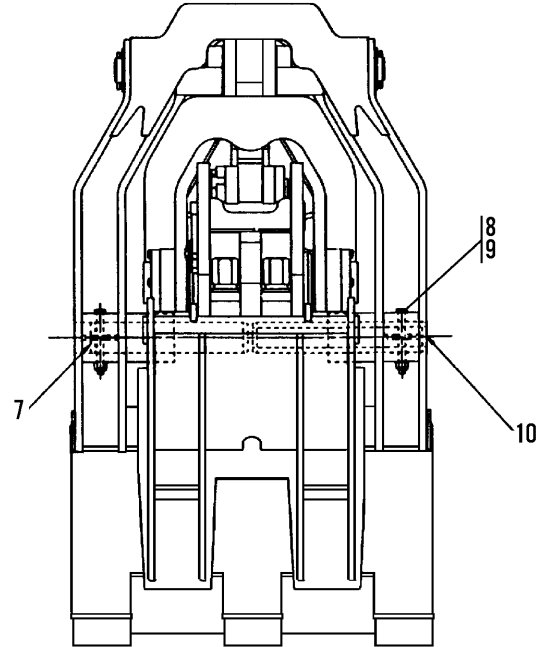
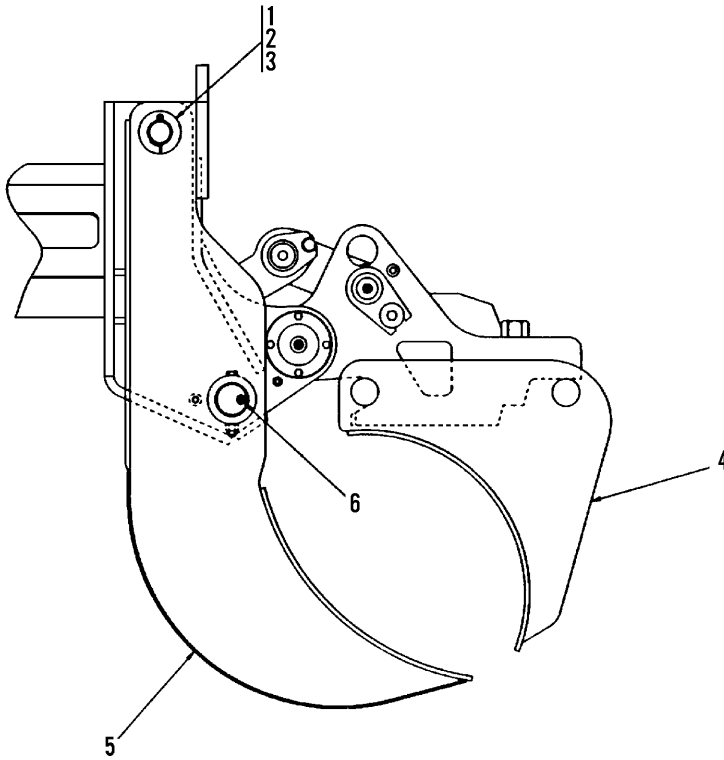


Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8025-5001	1	FOUR FOOT BOOM EXTENSION ASSY, (includes all items)	16	8820-1033	1	HEX HD CAPSCREW, 3/8-16X3/4, GR5
1	8025-1192	1	LINK	17	8855-1011	2	LOCKWASHER, 3/8
2	8065-1140	2	PIN	18	8022-6033	1	PIN WELDMENT
3	8065-1141	4	PLATE	19	8022-6032	1	PIN WELDMENT
4	8863-1351	4	COTTER PIN, 1/4X2-1/2	20	8362-3017	2	O-RING
5	8025-6021	1	FOUR FOOT BOOM EXTENSION	*21	8320-1129	1	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8, (torque to 68-73 ft-lb)
6	8025-6010	1	PUSH ROD WELDMENT	22	8362-1283	1	SPECIAL WASHER
7	8867-1001	5	LUBE FITTING, STRAIGHT, 1/8	23	8022-1243	1	TOOL EYE CAP
8	8022-6006	1	CURVED LINK	24	8320-1043	3	HEX HD CAPSCREW, 1/2-13X2-1/4, GR8, (lubricate & torque to 100-110 ft. lbs.)
9	8820-1038	2	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5	25	8855-1013	3	LOCKWASHER, 1/2
10	8852-1206	4	HEX LOCKNUT, 3/8-16	26	8850-1008	3	HEX NUT, 1/2-13
11	8022-1058	2	WASHER	27	8022-1176	2	BUSHING, (inside cap)
12	8025-1046	1	BOOM EXTENSION PIN	*28	2460-4148	1	4' BOOM EXTENSION INSTALLATION MANUAL, (not shown)
13	8025-1079	2	COLLAR				
14	8379-3054	2	HEX HD CAPSCREW, 3/8-16X4-1/4, GR5				
15	8022-1059	1	PIN WASHER				

* - Changed part number on item 21; added item 28.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

ATTACHMENTS
Starting Serial No. 0232412
Original Issue 8-99
Revised 2-11-00



INSTALLATION PROCEDURE:

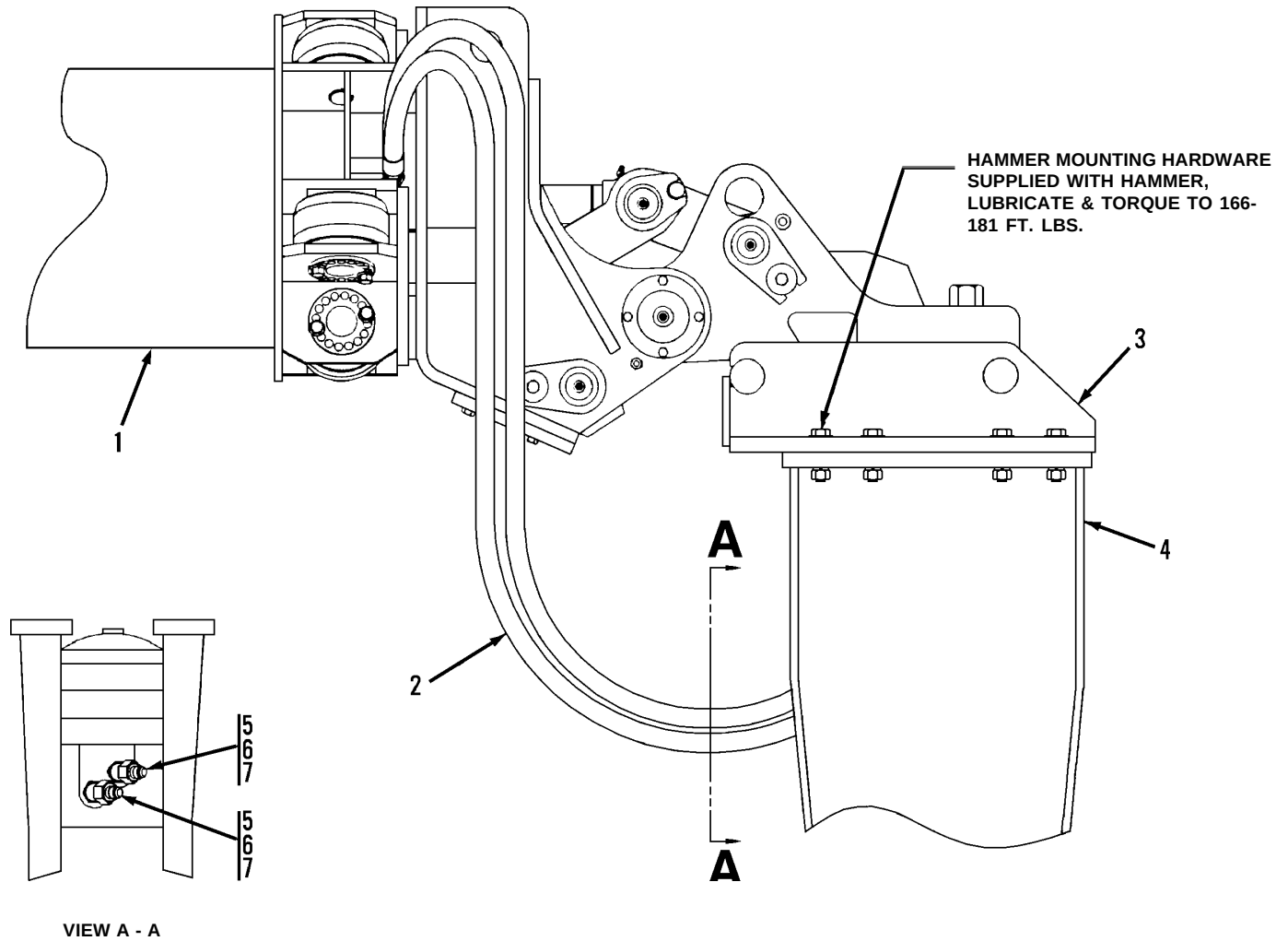
1. REMOVE FASTENERS FROM STANDARD BENT LINK PIVOT PIN.
2. USE 8023-1132 INSTALLATION PIN TO DRIVE OUT STANDARD BENT LINK PIVOT PIN. LEAVE INSTALLATION PIN INSTALLED TO HOLD BENT LINK IN PLACE DURING STATIONARY ARM, (item 5), INSTALLATION. INSTALLATION PIN SHOULD BE DRIVEN IN FAR ENOUGH NOT TO PROTRUDE OUT OF EITHER SIDE OF TOOL EYE.
3. INSTALL 8025-6036 PIVOTING ARM, (item 4), ON BUCKET ADAPTER.
4. POSITION END OF BOOM THROUGH 8025-6037 STATIONARY ARM, (item 5), AND ALIGN LOWER BORES.
5. DRIVE OUT INSTALLATION PIN BY DRIVING 8025-1254 & 8026-6016 PINS THROUGH FAR ENOUGH TO UNLOAD INSTALLATION PIN AND INSTALL HARDWARE.
6. INSTALL 8025-1134 PIN, (item 1), AND HARDWARE.

Item	Part No.	Qty.	Description Of Part
	8025-5009	1	FIXED THUMB GRAPPLE ASSY, (includes all items)
1	8025-1134	1	PIN
*2	8863-1351	2	COTTER PIN, 1/4x2-1/2
*3	8065-1141	2	PLATE
4	8025-6036	1	GRAPPLE PIVOTING ARM
5	8025-6037	1	GRAPPLE STATIONARY ARM
6	8867-1001	1	LUBE FITTING, STRAIGHT, 1/8
7	8025-1254	1	PIN
8	8820-1315	2	HEX HD CAPSCREW, 1/2-13X5, GR5
9	8852-1208	2	HEX LOCKNUT, 1/2-13
10	8025-6016	1	PIN
11	8025-1132	1	INSTALLATION PIN, (not shown)

* - Changed quantities on items 2 & 3. Revised installation procedure.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

ATTACHMENTS
Starting Serial No. 0232412
Original Issue 8-99

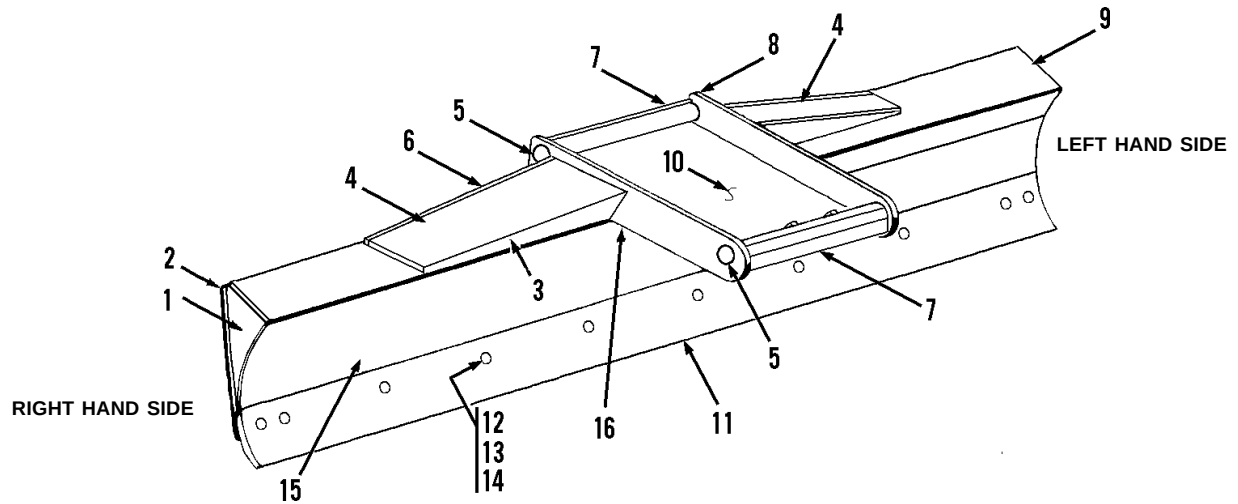


NOTE: THIS INSTALLATION IS ONLY FOR
BUCKET ADAPTER INSTALLATION
WITH BUCKET LINKAGE.

Item	Part No.	Qty.	Description Of Part
1	8025-5005	1	RAMMER INSTALLATION, S27, (includes all items)
		Ref	BOOM & CRADLE ASSY, (see page UP2-1 thru UP2-4 for details)
2	8471-9085	1	HOSE ASSY
3	8025-6022	1	HAMMER BRACKET
4	8025-3005	1	RAMMER HAMMER, S27
5	8866-208	2	ELBOW, 45 DEGREES, (includes item 6)
6	8859-1209	2	O-RING
7	8866-1347	2	TUBE END REDUCER, 1X3/4

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

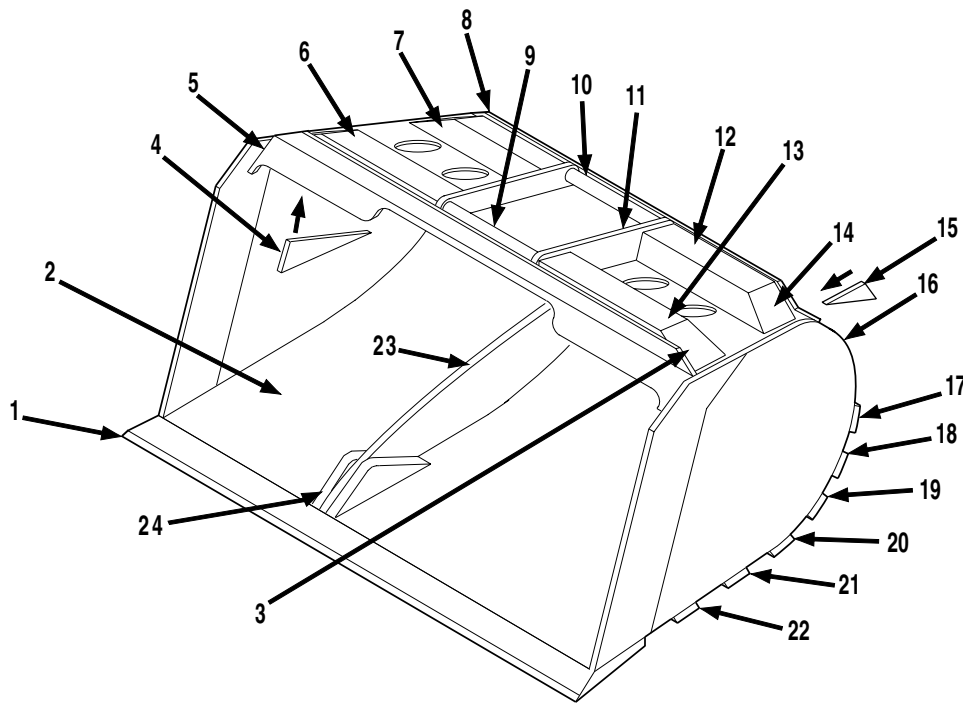
ATTACHMENTS
Starting Serial No. 0232412
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8025-6013	1	8' GRADING BLADE, (includes all items)
1	8025-1146	4	STIFFENER
2	8025-1145	1	BACK PLATE, L/H
	8025-1184	1	BACK PLATE, R/H
3	8025-1148	2	INSIDE FRONT PLATE
4	8025-1150	1	FORMED GUSSET
5	8025-1140	2	PIN
6	8025-1149	2	REAR GUSSET PLATE
7	8025-1151	2	PIN STIFFENER
8	8025-1144	2	SIDE PLATE
9	8025-1147	2	TOP PLATE
10	8025-1141	1	BASE PLATE
11	2413-1047	1	CUTTING EDGE
12	8842-1038	10	PLOW BOLT, 5/8-11X2
13	8855-1015	10	LOCKWASHER, 5/8
14	8850-1010	10	HEX NUT, 5/8-11
15	2413-1039	1	MOLD BOARD
16	8025-1142	1	FILLER PLATE
17	8025-1143	1	INSIDE REAR PLATE, (not shown)

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

ATTACHMENTS
Starting Serial No. 0232412
Original Issue 1-01
Revised 9-17-03



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8025-6040	1	60" DITCHING BUCKET, (includes all items)	12	8025-1021	1	R.H. REAR TOP STIFFENER
1	8065-3019	1	CUTTING EDGE	13	8025-1019	1	R.H. TOP STIFFENER
2	8025-1016	1	BOTTOM PLATE	14	8025-1023	2	END PLATE
3	8025-1154	2	FORWARD END PLATE	15	8025-1024	2	REAR WEDGE PLATE
4	8095-1054	2	GUSSET	16	8025-1017	2	SIDE PLATE
5	8025-1028	1	FRONT STIFFENER	17	8065-1052	1	WEAR STRIP
6	8025-1020	1	L.H. FRONT TOP STIFFENER	18	8345-1296	1	WEAR STRIP
7	8025-1022	1	L.H. REAR TOP STIFFENER	19	8065-1051	1	WEAR STRIP
8	8025-1027	1	REAR STIFFENER	20	8095-1189	1	WEAR STRIP
9	8025-1030	1	FRONT PIN	21	8065-1062	1	WEAR STRIP
10	8025-1029	1	REAR PIN	22	8095-1191	1	WEAR STRIP
*11	8025-1290	2	SUPPORT PLATE	23	8025-1289	1	RIB STIFFENER
				24	8065-1073	2	WEAR PLATE

* - Changed part number on item 11.

SECTION 1 — INTRODUCTION

Table of Contents	UN1-1
Alphabetical Index	UN1-3
Parts Index	UN1-4

SECTION 2 — FRAME AND ATTACHING PARTS

Frame & Attaching Parts	UN2-1
Frame & Plumbing	UN2-2
Frame & Plumbing	UN2-3
Frame & Plumbing	UN2-4
Blade Assembly	UN2-5

SECTION 3 — HYDRAULIC COMPONENTS

Axle Lock Valve Assembly	UN3-1
Hydraulic Control Valve Assembly	UN3-2
Blade Cylinder Control Valve Section Assembly	UN3-3
Stabilizer Cylinder Control Valve Section Assembly	UN3-4
End Valve Section Assembly	UN3-5
Solenoid Valve Assemblies	UN3-6
Blade Cylinder Assembly	UN3-7
Cylinder Lock/Oscillation Valve Assembly	UN3-8
Stabilizer Cylinder Assembly	UN3-9
Oscillation Cylinder Assembly	UN3-10
Drive Motor Assembly	UN3-11
Selector Valve Assembly	UN3-12
Three-Way Valve Block Assembly	UN3-13
Four-Way Valve Assembly	UN3-14
Solenoid Valve Assembly	UN3-15

SECTION 4 — FRONT AXLE ASSEMBLY

Front Axle Housing & Intermediate Cover Assembly	UN4-1
Differential Assembly	UN4-2
Steering Knuckle & Reducing Gear Assembly	UN4-3
Front Brake Components	UN4-4
Steer Cylinder Assembly	UN4-5

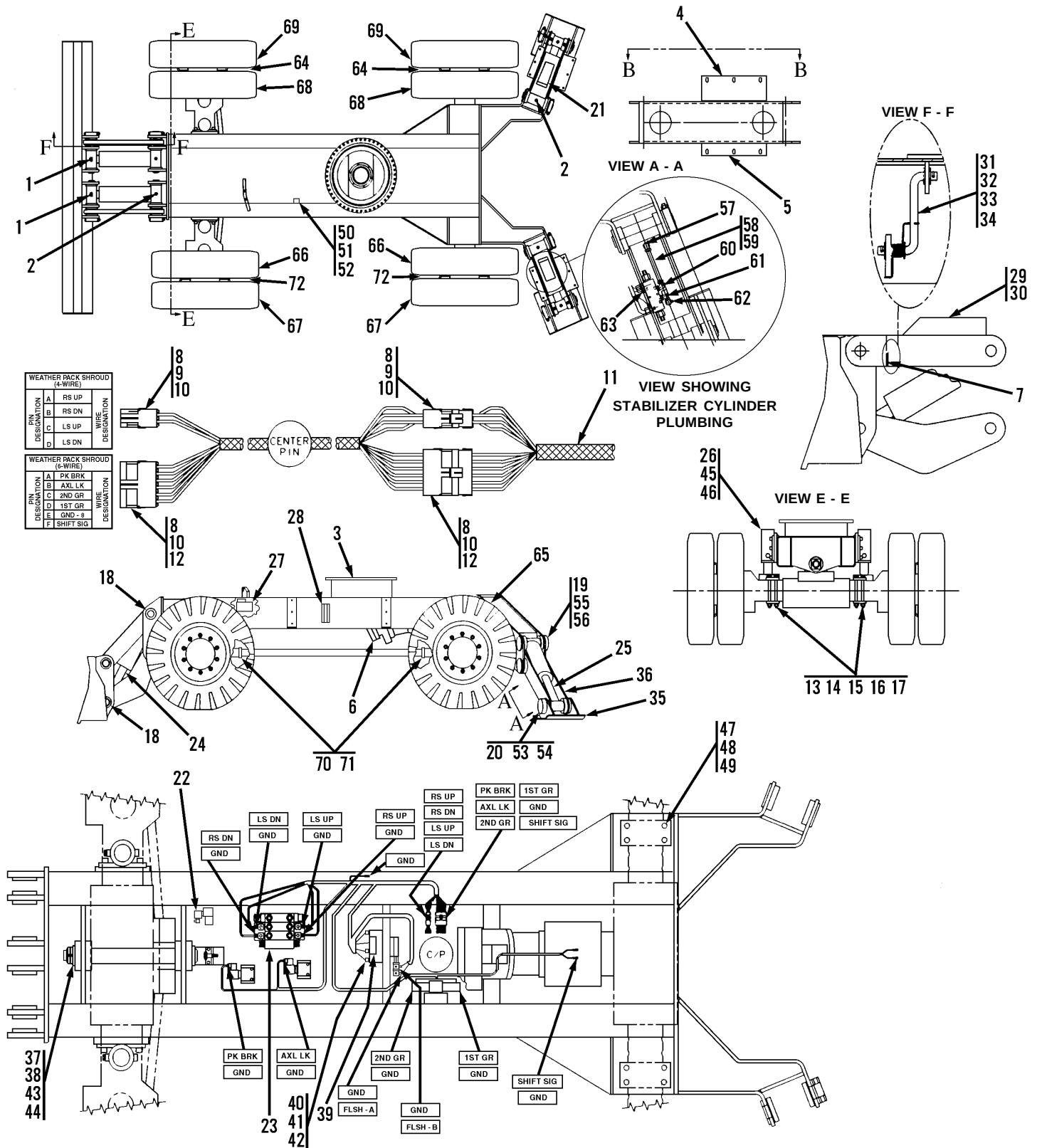
SECTION 5 — REAR AXLE ASSEMBLY

Rear Axle Gearbox Assembly	UN5-1
Rear Axle Housing & Cover Assembly	UN5-2
Differential Assembly	UN5-3
Steering Knuckle & Wheel End Assembly	UN5-4
Brake Assembly	UN5-5
Stud Kit	UN5-6

Axle Housing	UN4-1, UN5-2
Axle Lock Valve Assembly	UN3-1
Blade Assembly	UN2-5
Blade Cylinder Assembly	UN3-7
Blade Cylinder Control Valve Section Assembly	UN3-3
Brake Assembly, (front)	UN4-4
Brake Assembly	UN5-5
Cylinder Lock/Oscillation Valve Assembly	UN3-8
Differential Assembly, (front)	UN4-2
Differential Assembly, (rear)	UN5-3
Drive Motor Assembly	UN3-11
End Valve Section Assembly	UN3-5
Four-Way Valve Assembly	UN3-14
Frame Assembly	UN2-1
Frame & Plumbing	UN2-2, UN2-3, UN2-4
Gearbox Assembly, (rear axle)	UN5-1
Hydraulic Control Valve Assembly, (blade & stabilizer)	UN3-2
Oscillation Cylinder Assembly	UN3-10
Rear Axle Stud Kit	UN5-6
Selector Valve Assembly	UN3-12
Solenoid Centring Valve Assembly	UN3-6
Solenoid Valve Assembly	UN3-15
Stabilizer Cylinder Assembly	UN3-9
Stabilizer Cylinder Hydraulic Control Valve Section	UN3-3, UN3-4
Steer Cylinder Assembly	UN4-5
Steering Knuckle & Reducing Gear Assembly, (front)	UN4-3
Steering Knuckle & Wheel End Assembly, (rear)	UN5-4
Three-Way Valve Assembly	UN3-13

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

FRAME & ATTACHING PARTS
Frame & Attaching Parts
Starting Serial No. G02003
Original Issue 8-99
Revised 12-13-02



GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

FRAME & ATTACHING PARTS

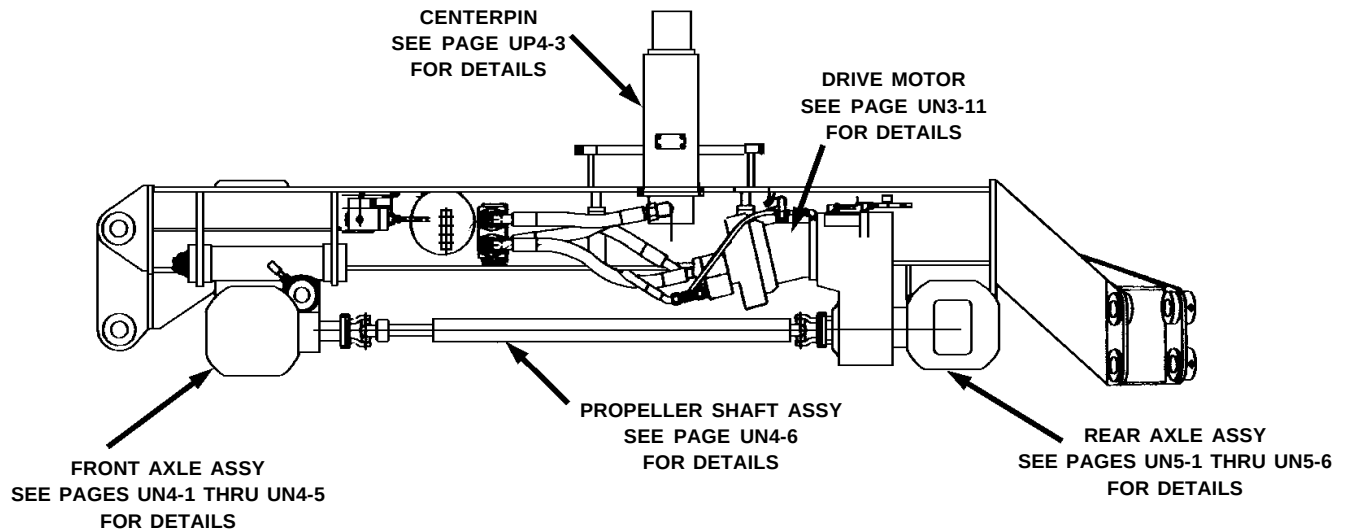
Frame & Attaching Parts

Starting Serial No. G02003

Original Issue 8-99

Revised 12-13-02

Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
1	8020-1012	2	SPLIT FITTING GUARD	35	8021-4107	2	SHOE
2	8020-1011	10	FITTING GUARD	36	8021-4108	2	BRACKET ARM
3	8020-6009	1	UNDERCARRIAGE FRAME	37	8021-4113	1	PIN
4	8020-1017	2	STABILIZER COVER BRACKET	38	8021-4114	1	WASHER
5	8020-1016	2	SPLIT FITTING GUARD	39	8096-5052	1	FLASHER ASSY
6		Ref	DRIVE MOTOR ASSY, (see page UN3-11 for details)	40	8830-1072	3	ROUND HD MACHINE SCREW, #8-32X5/8
7	8020-1022	1	TAB	41	8855-1006	3	LOCKWASHER, #8
8	8096-3069	20	MALE PIN TERMINAL	42	8850-1610	3	HEX NUT, #8-32
9	8096-3062	2	WEATHER PACK SHROUD, (4 pin)	43	8021-4115	1	LOCK NUT
10	8096-3066	20	SEAL	44		2	LUBE FITTING
11	8020-3018	1	UNDERCARRIAGE HARNESS	45	8021-4099	12	HEX HD CAPSCREW
12	8096-3064	2	WEATHER PACK SHROUD, (6 pin)	46	8021-4286	12	LOCKWASHER
13	8020-1020	2	BOTTOM AXLE PAD	47	8021-4104	8	HEX HD CAPSCREW
14	8020-1047	2	TOP AXLE PAD	48	8021-4105	8	LOCKWASHER
15	8320-1174	8	HEX HD CAPSCREW, 7/8-9X11, GR8, (lubricate & torque to 260-280 ft. lbs.)	49	8021-4106	8	HEX NUT
16	8850-1014	8	HEX NUT, 7/8-9	50	8021-4287	2	CAPSCREW
17	7738-3118	16	HARDENED WASHER, 7/8	51	8021-4288	2	WASHER
18	8021-4123	4	PIN	52	8021-4289	2	HEX NUT
19	8021-4110	2	PIN	53	8021-4128	6	CAPSCREW
20	8021-4109	2	PIN	54	8021-4290	6	HEX NUT
21		Ref	CYLINDER LOCK VALVE ASSY, (see page UN3-7 for details)	55	8021-4132	16	WASHER
22		Ref	THREE-WAY VALVE ASSY, (see page UN3-12 for details)	56	8021-4131	16	WASHER
23		Ref	HYDRAULIC CONTROL VALVE ASSY, (BLADE & STABILIZER ASSY), (see page UN3-2 for details)	57	8023-3187	2	ELBOW, 90 DEGREES, (includes oring)
24		Ref	BLADE CYLINDER ASSY, (see page UN3-6 for details)	58	8021-4291	2	TUBE ASSY
25		Ref	STABILIZER CYLINDER ASSY, (see page UN3-8 for details)	59	8021-4292	2	SPECIAL FITTING
26		Ref	OSCILLATION CYLINDER ASSY, (see page UN3-9 for details)	60	8023-3318	2	ELBOW, 90 DEGREES, (includes o-ring)
27		Ref	AXLE LOCK VALVE ASSY, (see page UN3-1 for details)	*61	8023-3319	2	ELBOW, 90 DEGREES, (includes o-ring)
28		Ref	SELECTOR VALVE ASSY, (see page UN3-11 for details)	62	8021-4095	2	ELBOW, 90 DEGREES, (includes o-ring)
29	8020-6005	1	BLADE CYLINDER COVER	63	8021-4094	4	CONNECTOR, (includes o-ring)
30	9136-3018	5	WHIZ-LOK SCREW, 5/16-18X1	*64	8021-4073	4	TIRE RING
31	8027-3070	1	Z-BAR	65	8020-3003	8	TIRE
32	8027-3047	1	TORSION SPRING	66	8021-4069	2	L/H INNER TIRE & WHEEL ASSY
33	8856-1003	2	FLAT WASHER, 5/16	67	8021-4070	2	L/H OUTER TIRE & WHEEL ASSY
34	8863-1309	2	COTTER PIN, 3/32X3/4	68	8021-4071	2	R/H INNER TIRE & WHEEL ASSY
				69	8021-4072	2	R/H OUTER TIRE & WHEEL ASSY
				70	8319-1074	16	HEX HD CAPSCREW, M10-1.5X30, GR12.9, (lubricate & torque to 57 ft. lbs.)
				71	8319-1072	16	HEX LOCKNUT, M10-1.5, GR12.9



* - Revised illustration; changed part numbers on items 61 & 64; removed item 72.

GRADALL

HYDRAULIC EXCAVATOR

Undercarriage

XL2300

Wheeled Mount

ITEM #11

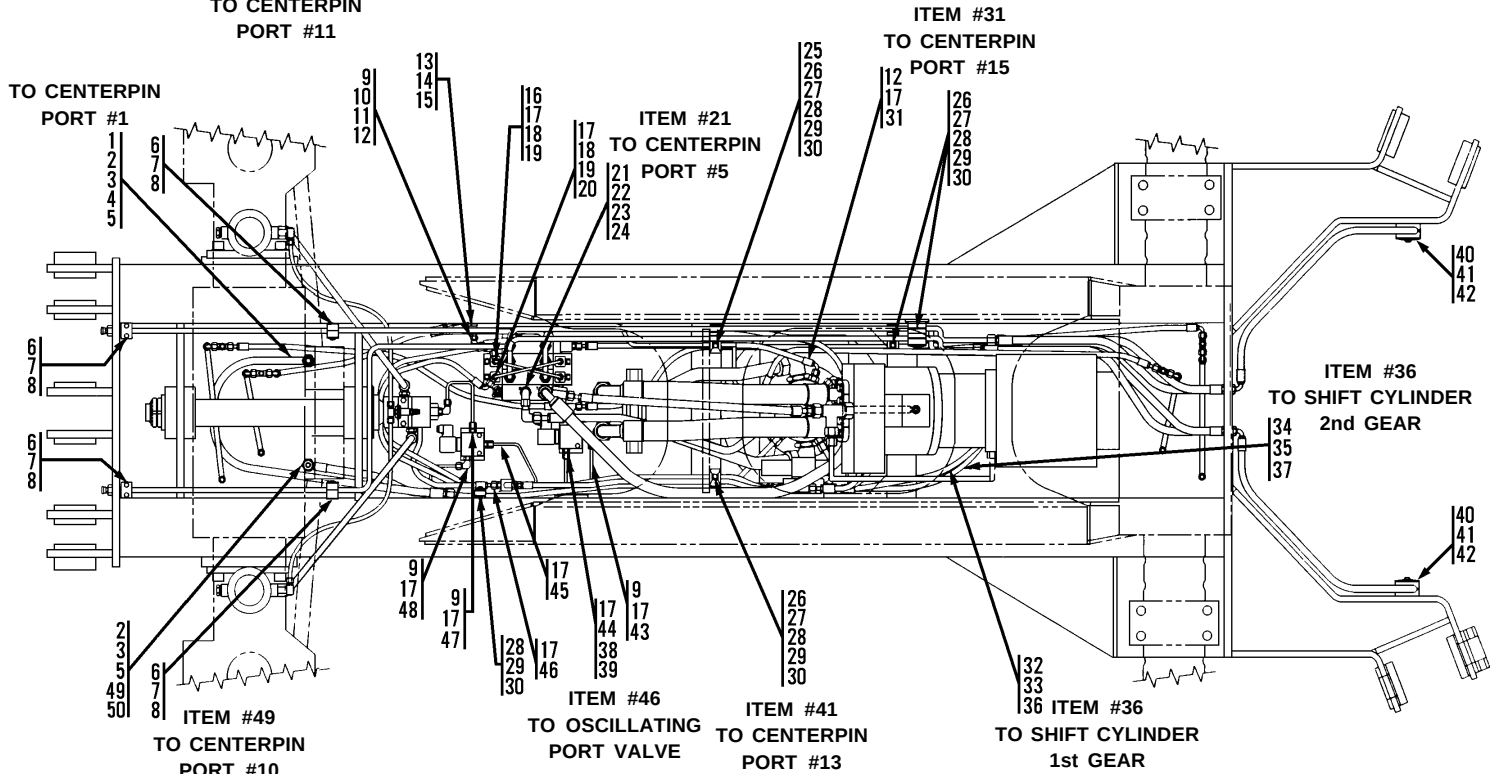
TO CENTERPIN

PORT #11

Frame & Attaching Parts**Frame & Plumbing**

Starting Serial No. G02003

Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8023-3286	1	PLUMBING KIT, (includes items 2, 3, 4, 5, 9, 10, 11, 12, 17, 18, 19, 21, 22, 23, 24, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 46 & 49 on page UP2-2 and designated items on page UP2-3 & UP2-4)
1	8023-3303	1	STEER TUBE ASSY, L.H.
2	8859-1506	2	O-RING
3	8023-3268	2	ADAPTER, (includes o-ring)
4	8471-9255	1	STEER HOSE ASSY, L.H.
5	8023-3265	2	ADAPTER, (includes o-ring)
6	9103-3138	4	CLAMP SET
7	7713-3499	8	HEX HD CAPSCREW, 1/4-20X1-5/16
8	7713-3498	4	COVER PLATE
9	8023-3255	2	ELBOW, 90 DEGREES, (includes o-ring)
10	8866-2370	1	ELBOW, 90 DEGREES, (swivel nut)
11	8471-9247	1	HOSE ASSY
12	8023-3258	2	ADAPTER, (includes o-ring)
13	7713-3270	1	CLAMP SET
14	8820-1005	1	HEX HD CAPSCREW, 1/4-20X1
15	8856-1002	1	FLAT WASHER, 1/4
16	8023-3284	1	TUBE ASSY
17	8023-3254	13	ADAPTER
18	8023-3253	2	SWIVEL NUT BRANCH TEE
19	8471-9251	2	HOSE ASSY
20	8023-3285	1	TUBE ASSY
21	8471-9256	1	HOSE ASSY
22	8023-3187	1	ELBOW, 90 DEGREES, (includes o-ring)

Item	Part No.	Qty.	Description Of Part
23	8866-2372	1	ELBOW, 90 DEGREES, (swivel nut)
24	8023-3267	1	ADAPTER, (includes o-ring)
25	7713-3395	1	CLAMP SET
26	7713-3389	4	STACK BOLT
27	7713-3390	4	SAFETY CLIP
28	7713-3140	5	COVER PLATE
29	7713-3177	5	HEX HD CAPSCREW, 5/16-18X1-3/8
30	7713-3168	8	CLAMP SET
31	8471-9248	1	HOSE ASSY
32	8023-3261	1	ELBOW, 90 DEGREES, (includes o-ring)
33	8023-3257	1	ADAPTER, (includes o-ring)
34	8471-9270	1	HOSE ASSY
35	8023-3263	1	ELBOW, 45 DEGREES, (includes o-ring)
36	8471-9269	1	HOSE ASSY
37	8023-3262	1	ADAPTER, (includes o-ring)
38	8866-2489	2	ELBOW, 90 DEGREES, (includes item 39)
39	8859-1204	2	O-RING
40	7713-3137	2	COVER PLATE
41	7713-3136	2	CLAMP SET
42	7713-3177	2	HEX HD CAPSCREW
43	8023-3316	1	TUBE ASSY
44	8023-3317	1	TUBE ASSY
45	8023-3240	1	TUBE ASSY
46	8471-9276	1	HOSE ASSY
47	8023-3241	1	TUBE ASSY
48	8023-3239	1	TUBE ASSY
49	8471-9254	1	STEER HOSE ASSY, R.H.
50	8023-3304	1	STEER TUBE ASSY, R.H.

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

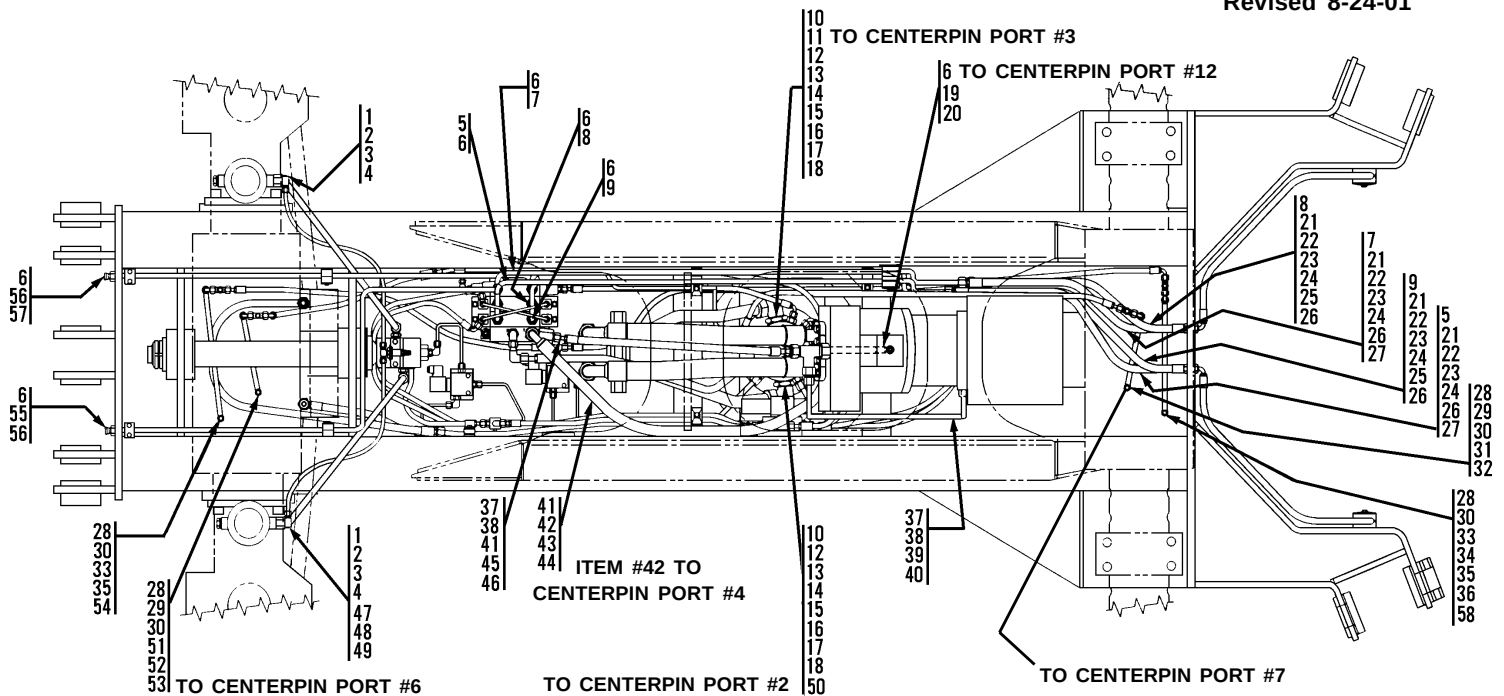
FRAME & ATTACHING PARTS

Frame & Plumbing

Starting Serial No. G02003

Original Issue 8-99

Revised 8-24-01



Item	Part No.	Qty.	Description Of Part
	8023-3286	1	PLUMBING KIT, (includes items 1, 2, 3, 4, 6, 10, 13, 14, 15, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 48, 51, 53, 54 & 56 on page UP2-3 and designated items on page UP2-2 & UP2-4)
1	8023-3273	2	ADAPTER, (includes o-ring)
2	8688-3474	2	TUBE FITTING, 90 DEGREES, 1/2X3/8 TUBE
3		AR	NYLON TUBE, 3/8
4	8688-3090	1	TEE TUBE FITTING, 1/4X3/8 TUBE
5	8023-3277	1	STABILIZER TUBE ASSY, #3
6	8023-3268	7	ADAPTER, (includes o-ring)
7	8023-3278	1	STABILIZER TUBE ASSY, #4
8	8023-3275	1	STABILIZER TUBE ASSY, #1
9	8023-3276	1	STABILIZER TUBE ASSY, #2
10	8023-3189	2	ELBOW, 90 DEGREES, (includes o-ring)
11	8023-3281	1	PROPEL TUBE ASSY, L.H.
12	9020-5792	2	CUSHION CLAMP, 1-1/4
13	8859-1510	2	O-RING
14	8471-9234	2	PROPEL HOSE ASSY
15	9108-3339	2	O-RING
16	8023-3293	4	FLANGE HALF
17	8319-1067	2	HEX HD CAPSCREW, M14-2X45
18	8319-1068	6	HEX HD CAPSCREW, M14-2X130
19	8023-3266	1	ADAPTER, (includes o-ring)
20	8471-9259	1	HOSE ASSY
21	8859-1506	4	O-RING
22	8471-9239	4	HOSE ASSY
23	8866-2483	4	BULKHEAD LOCKNUT
24	8859-1505	4	O-RING
25	8471-9237	2	HOSE ASSY

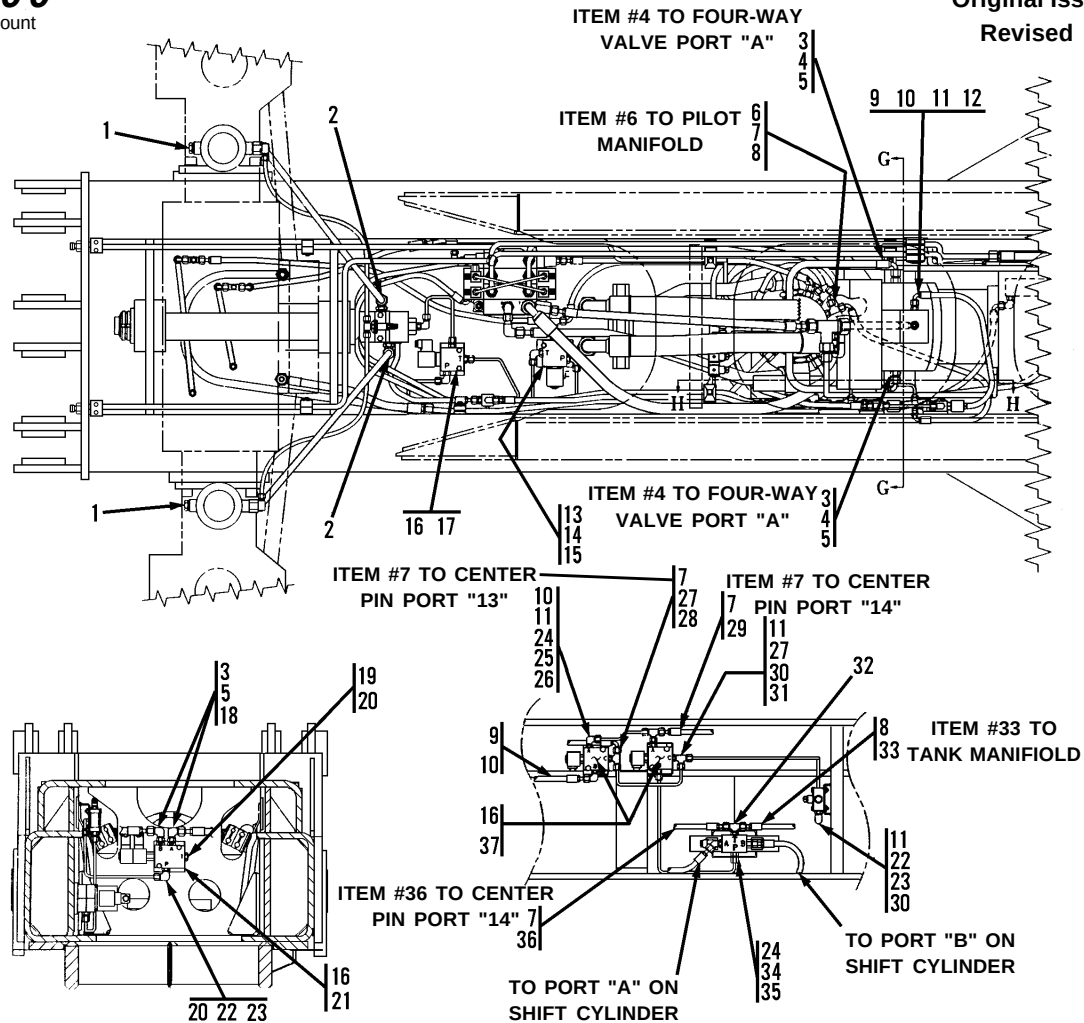
Item	Part No.	Qty.	Description Of Part
*26	8023-3318	4	ELBOW, 90 DEGREES, (includes o-ring)
27	8471-9238	2	HOSE ASSY
28	8023-3262	4	ADAPTER, (includes o-ring)
29	8471-9240	2	HOSE ASSY
30	8023-3288	4	BRANCH TEE
31	8471-9246	1	HOSE ASSY
32	8023-3258	1	ADAPTER, (includes o-ring)
33	8471-9241	2	HOSE ASSY
34	8471-9249	1	HOSE ASSY
35	8866-2353	1	SWIVEL NUT BRANCH TEE
36	8866-2471	1	CONNECTOR, (includes item 58)
37	8023-3249	1	RUN TEE, (includes o-ring)
38	8866-2480	2	TUBE END REDUCER
39	8023-3294	1	ORIFICE ELBOW, 90 DEGREES, (includes o-ring)
40	8023-3236	1	TUBE ASSY
41	8023-3250	1	RUN TEE, (includes o-ring)
42	8471-9258	1	HOSE ASSY
43	8866-2374	1	ELBOW, 90 DEGREES, (swivel nut)
44	8023-3272	1	ADAPTER, (includes o-ring)
45	8023-3270	1	CHECK VALVE
46	8471-9257	1	HOSE ASSY
47	8023-1014	1	BULKHEAD TEE BRACKET
48	8063-3119	1	ANCHOR COUPLING, 1/4
49	7738-3551	1	MUFFLER, 1/4
50	8023-3280	1	PROPEL TUBE ASSY, R.H.
51	8471-9253	1	HOSE ASSY
52	8023-3274	1	SERVICE BRAKE TUBE ASSY
53	8023-3264	1	ADAPTER, (includes o-ring)
54	8471-9252	1	HOSE ASSY
55	8023-3230	1	BLADE TUBE ASSY
56	8471-4018	2	PLUG
57	8023-3229	1	BLADE TUBE ASSY
58	8859-1204	1	O-RING

* - Changed part number on item 26; revised illustration.

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

FRAME & ATTACHING PARTS

Frame & Plumbing
Starting Serial No. G02003
Original Issue 8-99
Revised 8-24-01



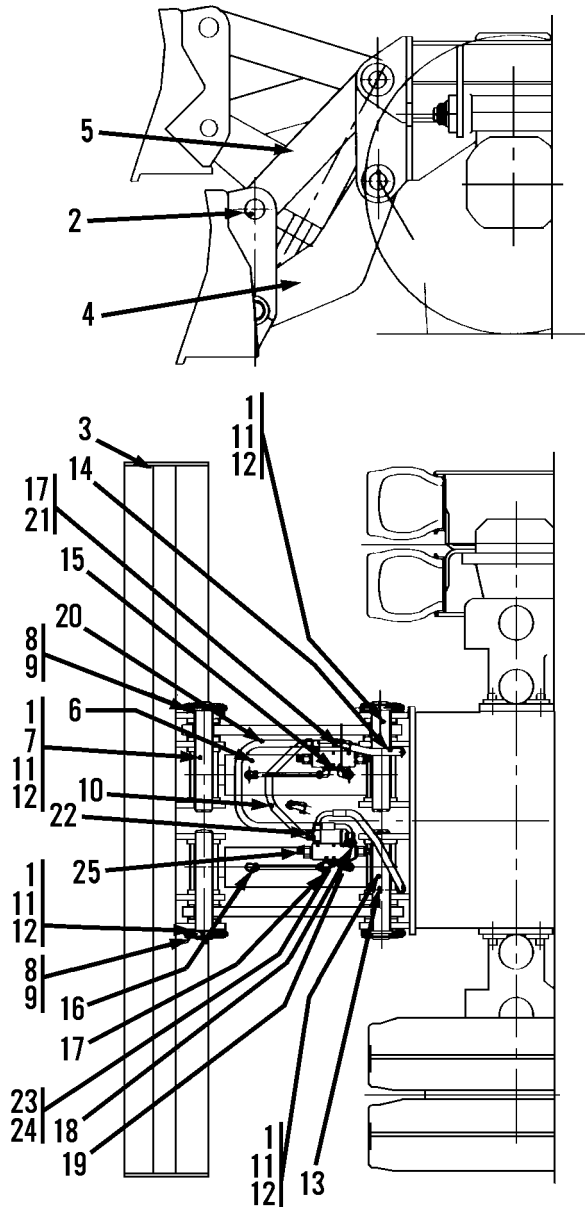
Item	Part No.	Qty.	Description Of Part
	8023-3286	1	PLUMBING KIT, (includes items on page UP2-4 and designated items on page UP2-2 & UP 2-3)
1	8023-3314	4	HEX PLUG
2	8023-3187	4	ELBOW, 90 DEGREES, (includes o-ring)
3	8471-9360	2	HOSE ASSY
4	8023-3265	2	ADAPTER, (includes o-ring)
5	8866-2371	2	ELBOW, 90 DEGREES, (swivel nut)
6	8471-9363	1	HOSE ASSY
7	8023-3253	2	RUN TEE, (includes o-ring)
8	8023-3255	2	ELBOW, 90 DEGREES, (includes o-ring)
9	8471-9364	1	HOSE ASSY
10	8866-2328	2	ELBOW, 90 DEGREES, (includes item 11)
*11	8859-1202	6	O-RING
12	8023-3313	1	ADAPTER, (includes o-ring)
13		Ref	SOLENOID VALVE ASSY, (see page UP3-15 for details)
14	8820-1009	2	HEX HD CAPSCREW, 1/4-20X2, GR5
15	8855-1009	2	LOCKWASHER, 1/4
16	8820-1007	10	HEX HD CAPSCREW, 1/4-20X1-1/4, GR5

Item	Part No.	Qty.	Description Of Part
17		Ref	THREE-WAY VALVE ASSY, (see page UN3-13 for details)
18	8023-3297	2	CHECK VALVE
19	8866-2174	1	HEX PLUG, (includes item 20)
20	8859-1204	2	O-RING
21		Ref	FOUR-WAY VALVE ASSY, (see page UN3-14 for details)
22	8023-3302	1	TUBE ASSY
*23	8866-2489	1	ELBOW, 90 DEGREES, (includes item 20)
24	8866-2300	2	CONNECTOR, (includes item 11)
25	8866-2353	1	BRANCH TEE, (swivel nut)
26	8023-3299	1	TUBE ASSY
27	8866-2337	1	BRANCH TEE, (includes item 11)
28	8471-9361	1	HOSE ASSY
29	8471-9362	1	HOSE ASSY
30	8866-2345	1	RUN TEE, (includes item 11)
31	8023-3300	1	TUBE ASSY
32	8023-3269	1	BRANCH TEE, (includes o-ring)
33	8471-9273	1	HOSE ASSY
34	8023-3257	1	CONNECTOR, (includes o-ring)
35	8023-3301	1	TUBE ASSY
36	8471-9272	1	HOSE ASSY
37		Ref	THREE-WAY VALVE ASSY, (see page UP4-33 for details)

* - Changed part numbers on items 11 & 23; revised illustration.

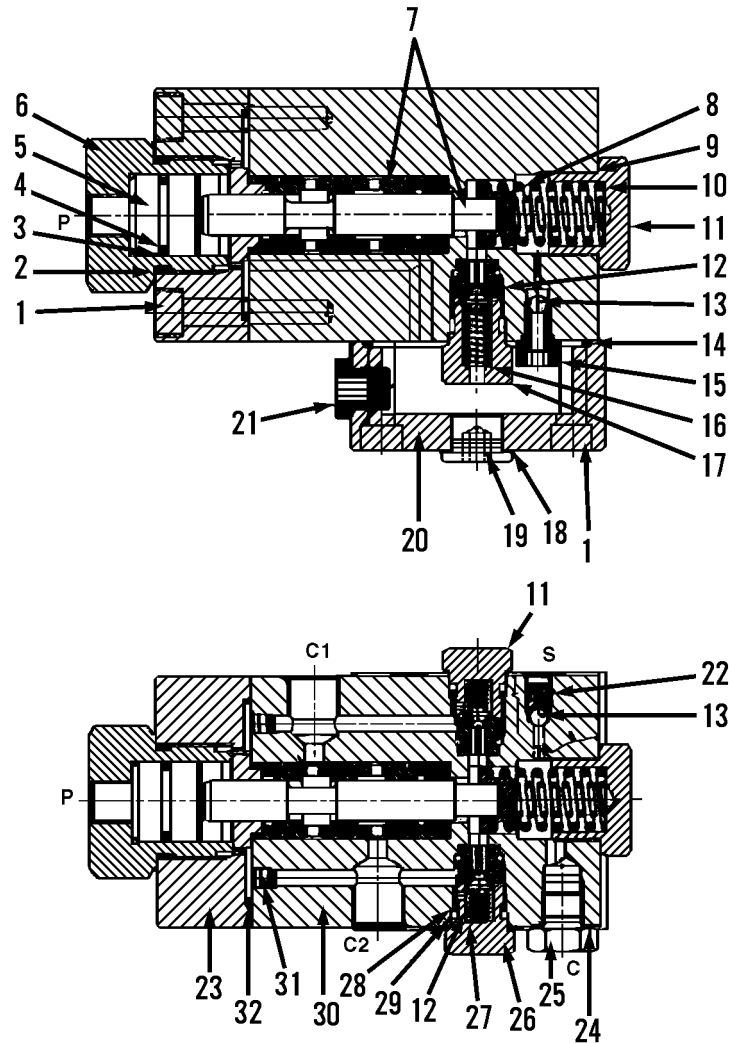
GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

FRAME & ATTACHING PARTS
(8021-4284) Blade Assembly
Starting Serial No. G02003
Original Issue 8-99
Revised 8-24-01



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8021-4284	1	BLADE ASSEMBLY, (includes all items)	13	8021-4133	1	HOSE ASSY
1	8021-4123	4	PIN	14	8021-4134	1	HOSE ASSY
2	8021-4124	4	PIN	15	8021-4095	2	ELBOW, 90 DEGREES
3	8021-4125	1	BLADE WELDMENT	16	8021-4091	2	ELBOW, 90 DEGREES
4	8021-4126	2	LOWER BLADE ARM	17	8021-4092	4	ELBOW, 90 DEGREES
5	8021-4127	2	UPPER BLADE ARM	18	8021-4093	2	ELBOW, 90 DEGREES
6		Ref	BLADE CYLINDER ASSY, (see page UN3-7 for details)	19	8021-4094	5	CONNECTOR
7	8021-4140	8	BUSHING	20	8021-4135	1	HOSE ASSY
8	8021-4128	8	SCREW	21	8021-4136	1	TEE FITTING
9	8021-4129	8	NUT	22	8021-4137	1	FITTING
10	8021-4130	1	HOSE ASSY	23	8021-4138	1	VALVE SUPPORT
11	8021-4131	32	WASHER	24	8021-4139	2	SCREW
12	8021-4132	32	WASHER	*25		Ref	CYLINDER LOCK VALVE ASSY, (see page UN3-8 for details)

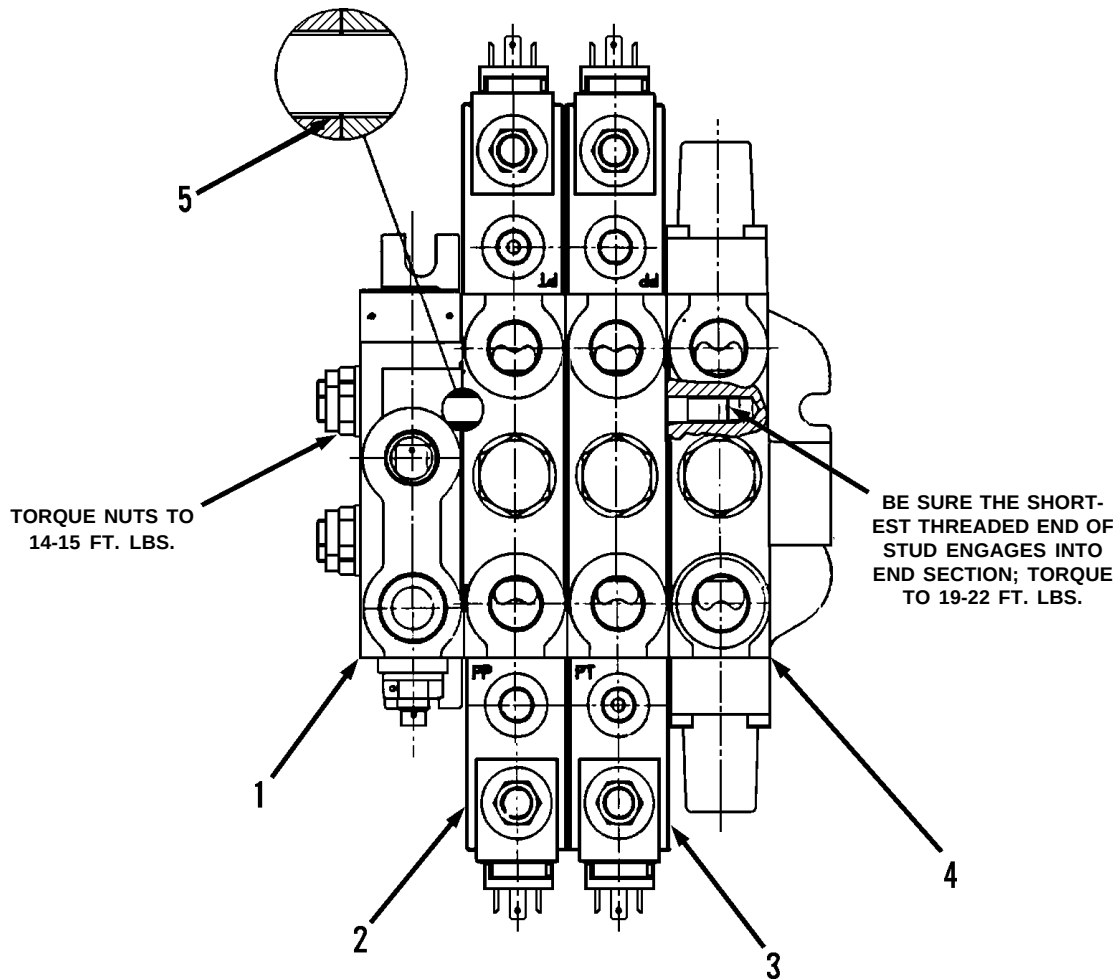
* - Added item 25.



Item	Part No.	Qty.	Description Of Part
	8021-4061	1	AXLE LOCK CONTROL VALVE, (includes all items)
1	8021-4227	8	SCREW
2	8021-4234	1	O-RING
3	8021-4211	1	ANTI-EXTRUSTION RING
4	8021-4231	1	O-RING
5	8021-4217	1	PILOT PISTON
6	8021-4223	1	PLUG
7		1	SPOOL
8	8021-4213	1	DISC
9	8021-4229	1	O-RING
10	8021-4216	1	SPRING
11	8021-4220	1	PLUG
12	8021-4219	3	TAPERED PIN
13	8021-4228	1	BALL
14	8021-4233	1	O-RING
15	8021-4225	1	BALL SEAT

Item	Part No.	Qty.	Description Of Part
16	8021-4215	1	SPRING
17	8021-4222	1	PLUG
18	8021-4240	1	SEAL
19	8021-4237	1	PLUG
20	8021-4218	1	RESERVOIR
21	8021-4241	1	PLUG W/GASKET
22	8021-4224	1	SCREW
23	8021-4226	1	END COVER
24	8021-4239	1	SEAL
25	8021-4236	1	PLUG
26	8021-4221	2	PLUG
27	8021-4214	2	SPRING
28	8021-4230	2	O-RING
29	8021-4235	2	BACK-UP O-RING
30	8021-4212	1	COLLECTOR
31	8021-4238	2	EXPANSION PLUG
32	8021-4232	1	O-RING

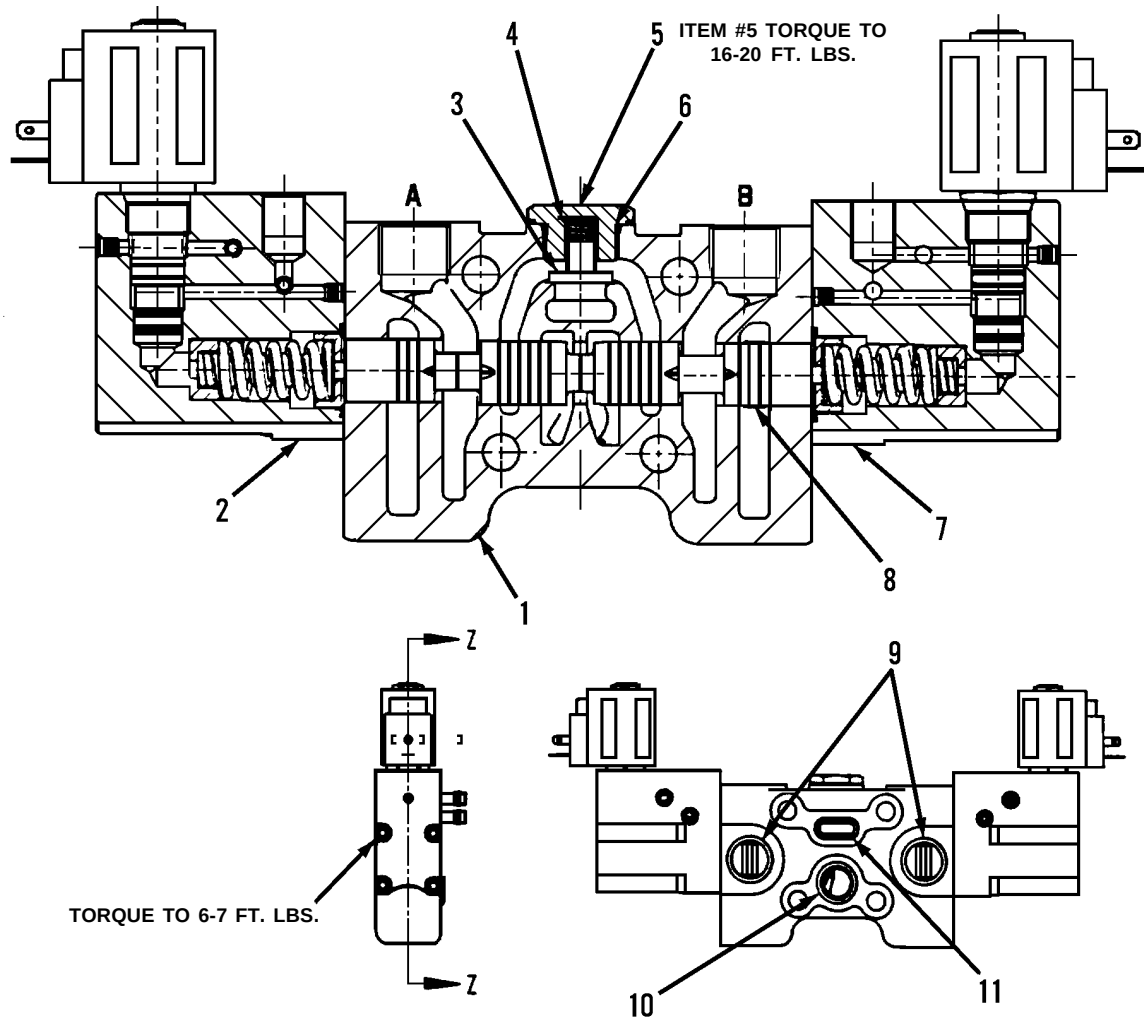
* - Revised parts list & illustration.



Item	Part No.	Qty.	Description Of Part
	8021-4058	1	BLADE & STABILIZER HYDRAULIC CONTROL VALVE ASSY, (includes all items)
1	8021-4257	1	INLET SECTION
2		Ref	1ST STABILIZER HYDRAULIC CONTROL VALVE SECTION, (see page UN3-3 for details)
3		Ref	2ND STABILIZER HYDRAULIC CONTROL VALVE SECTION, (see page UN3-4 for details)
4		Ref	BLADE HYDRAULIC CONTROL VALVE SECTION, (see page UN 3-5 for details)
5	8021-4261	AR	SHIM

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

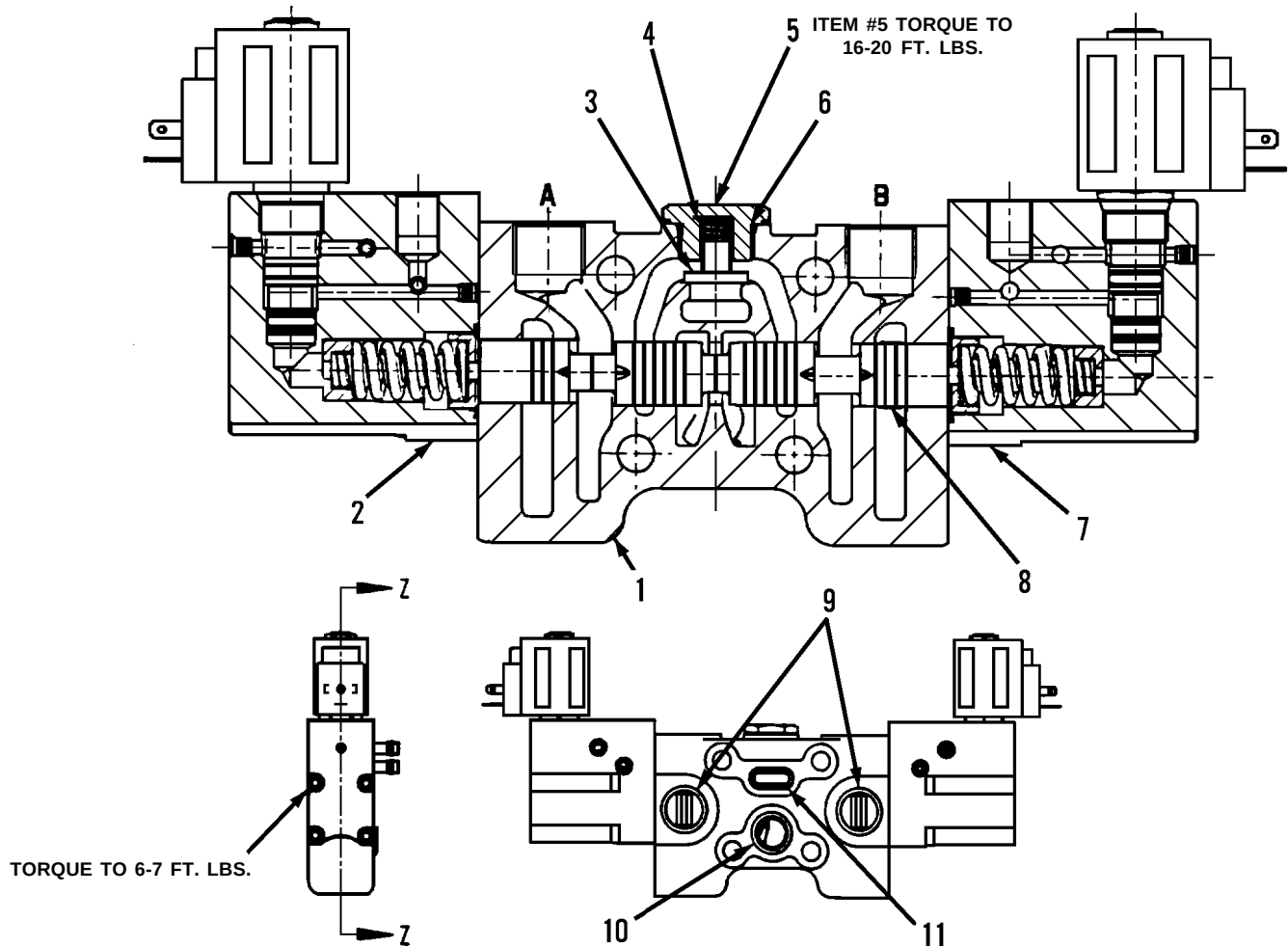
HYDRAULIC COMPONENTS
(8021-4258) 1st Stabilizer Hydraulic Control Valve Section Assembly
Starting Serial No. G02003
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8021-4258	1	FIRST STABILIZER CONTROL VALVE SECTION ASSY, (includes all items)
	8021-4268	1	FACE SEAL KIT, (includes items 9 thru 11)
1		1	BODY
2	8021-4262	1	SOLENOID CENTRING ASSY, (see page UN3-6 for details)
3	8021-4263	1	DROP LOAD CHECK
4	8021-4264	1	SPRING
5	8021-4265	1	PLUG
6	8021-4266	1	O-RING
7	8021-4267	1	SOLENOID CENTRING ASSY, (see page UN3-6 for details)
8		1	SPOOL
9		2	O-RING
10		1	O-RING
11		1	O-SEAL
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

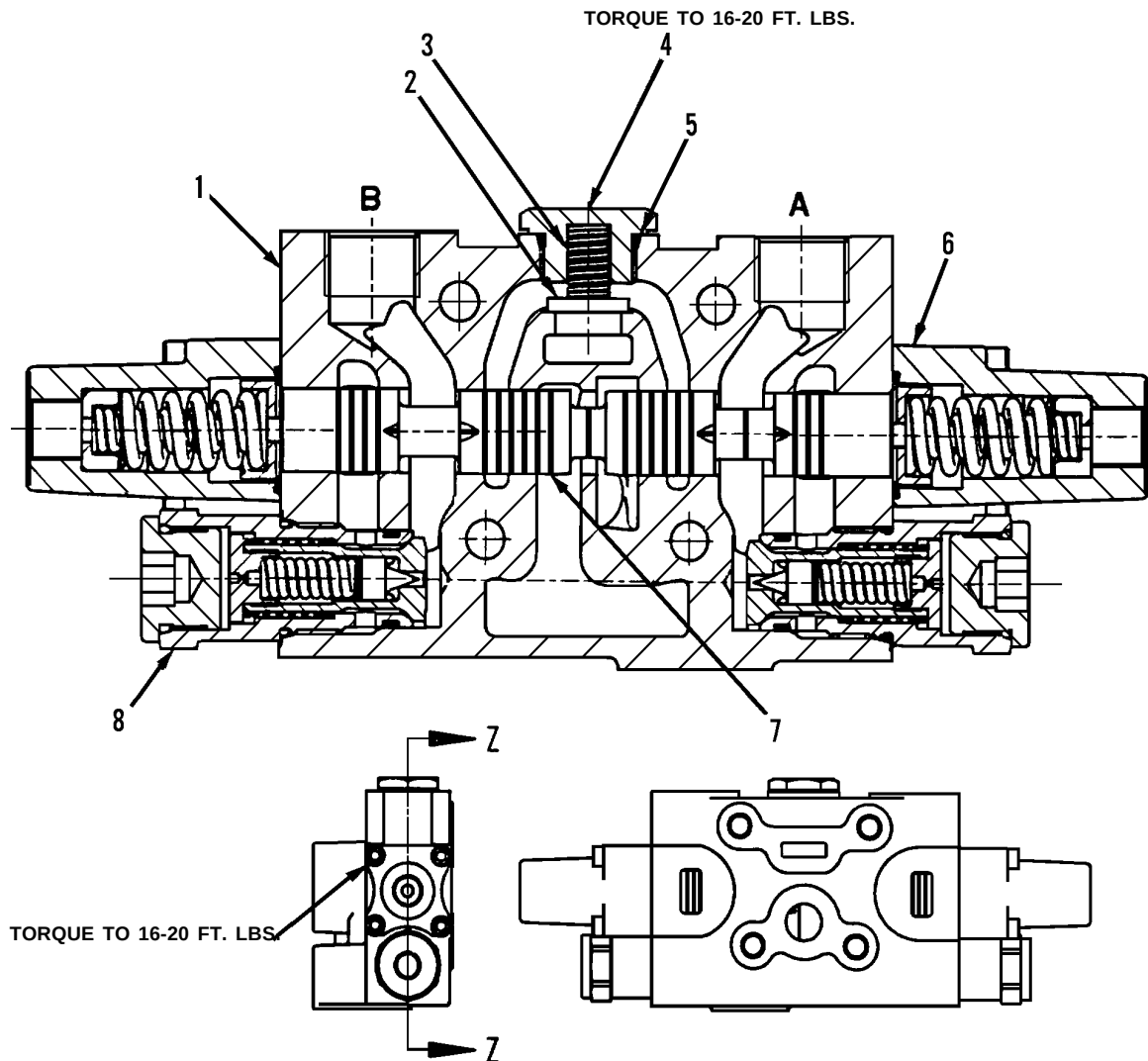
HYDRAULIC COMPONENTS
(8021-4259) 2nd Stabilizer Hydraulic Control Valve Section Assembly
Starting Serial No. G02003
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8021-4259	1	SECOND STABILIZER CONTROL VALVE SECTION ASSY, (includes all items)
	8021-4268	1	FACE SEAL KIT, (includes items 9 thru 11)
1		1	BODY
2	8021-4267	1	SOLENOID CENTRING ASSY, (see page UN3-6 for details)
3	8021-4263	1	DROP LOAD CHECK
4	8021-4264	1	SPRING
5	8021-4265	1	PLUG
6	8021-4266	1	O-RING
7	8021-4262	1	SOLENOID CENTRING ASSY, (see page UN3-6 for details)
8		1	SPOOL
9		2	O-RING
10		1	O-RING
11		1	O-SEAL
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

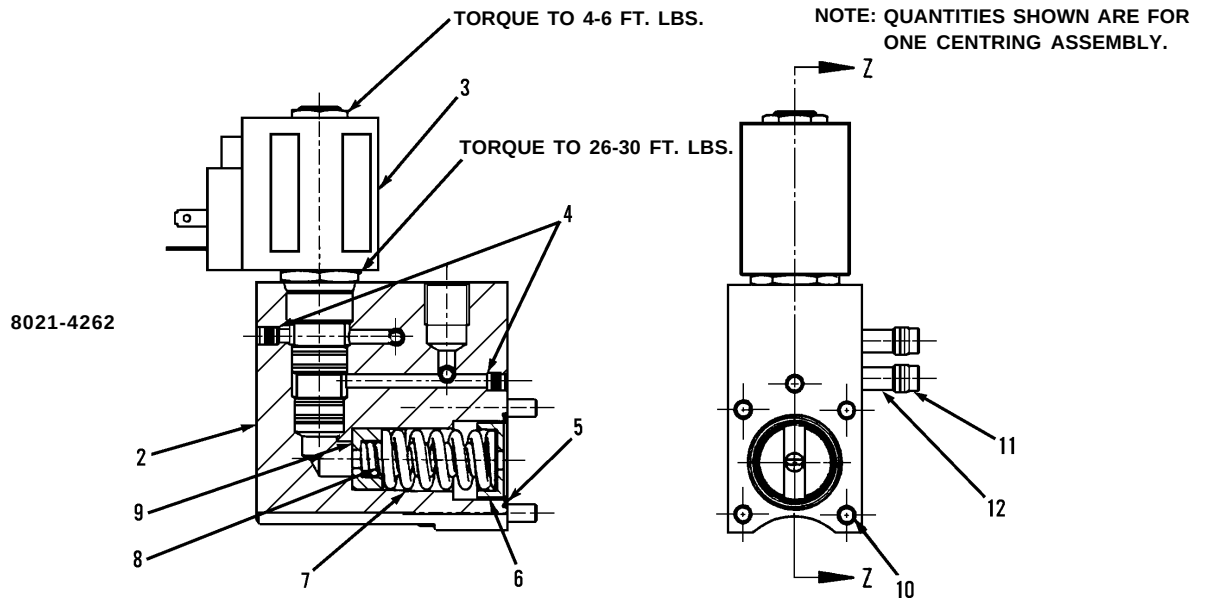
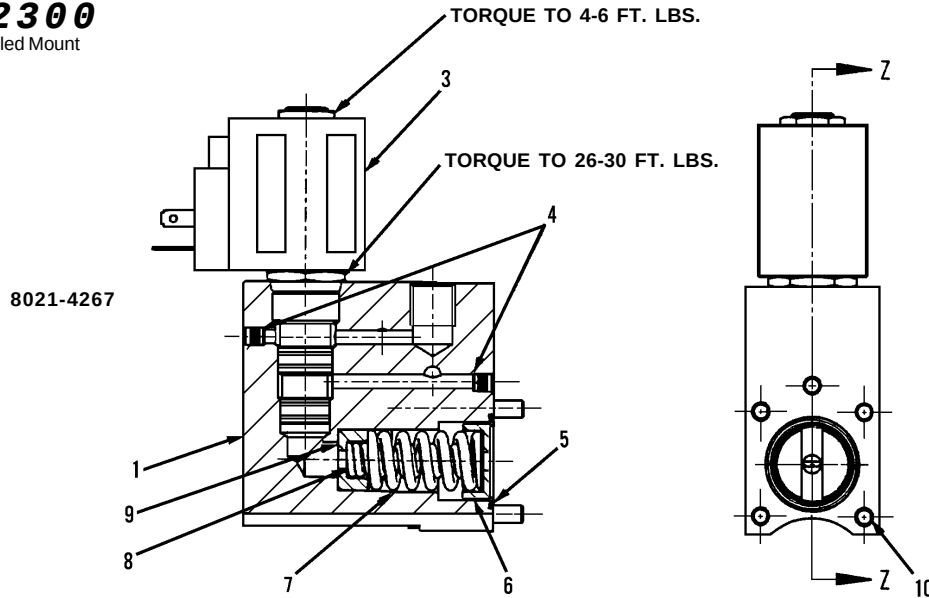
HYDRAULIC COMPONENTS
(8021-4260) Blade Hydraulic Control Valve Section Assembly
Starting Serial No. G02003
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8021-4260	1	BLADE CONTROL VALVE SECTION ASSY, (includes all items)
1		1	BODY
2	8021-4263	1	DROP LOAD CHECK
3	8021-4264	1	SPRING
4	8021-4265	1	PLUG
5	8021-4266	1	O-RING
6	8021-4270	1	PILOT CENTRING
7		1	SPOOL
8	8021-4269	1	RELIEF VALVE, ANTICAVITATION CARTRIDGE
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

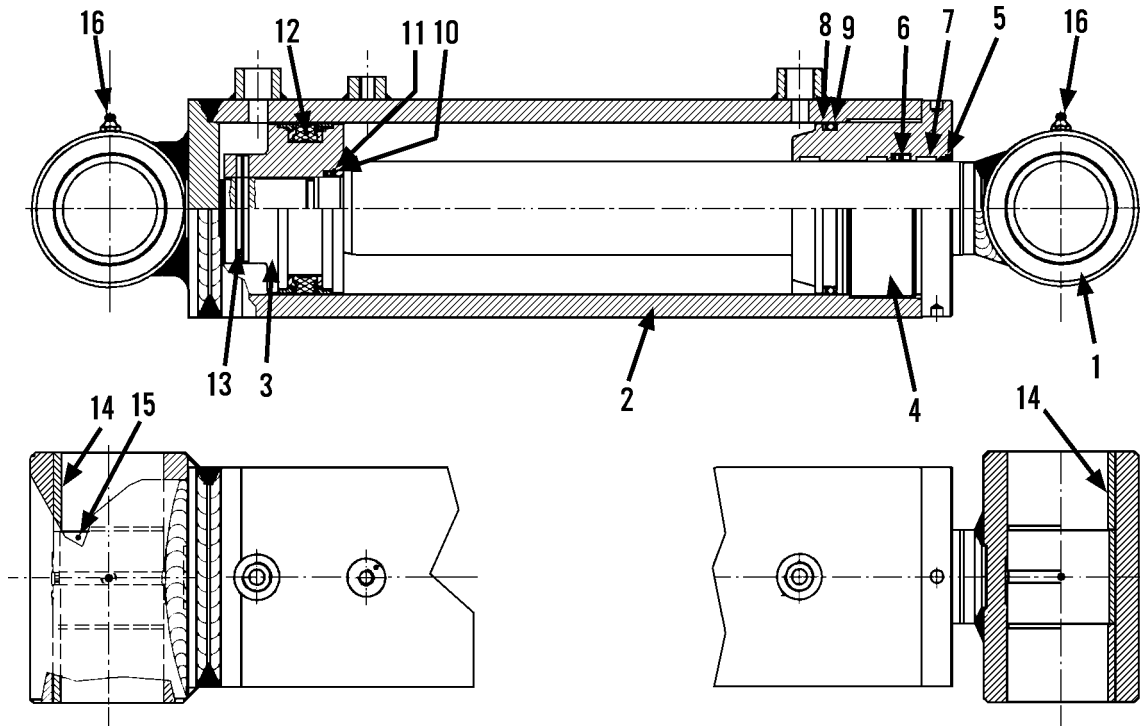
HYDRAULIC COMPONENTS
(8021- 4262/8021-4267) Solenoid Centring Valve Assemblies
Starting Serial No. G02003
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8021-4262	1	SOLENOID CENTRING ASSY, (includes all items except item 1)
	8021-4267	1	SOLENOID CENTRING ASSY, (includes items 2 thru 10)
1	8021-4271	1	CENTRING CAP
2	8021-4272	1	CENTRING CAP
3	8021-4273	1	SOLENOID VALVE
4	8021-4274	2	NUT
5	8021-4275	1	O-RING
6	8021-4276	1	SPACER
7	8021-4277	1	SPRING
8	8021-4278	1	SPRING
9	8021-4279	1	SPRING SEAT
10	8021-4280	4	BOLT
11	8021-4281	4	PACKING
12	8021-4282	2	CONNECTOR

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

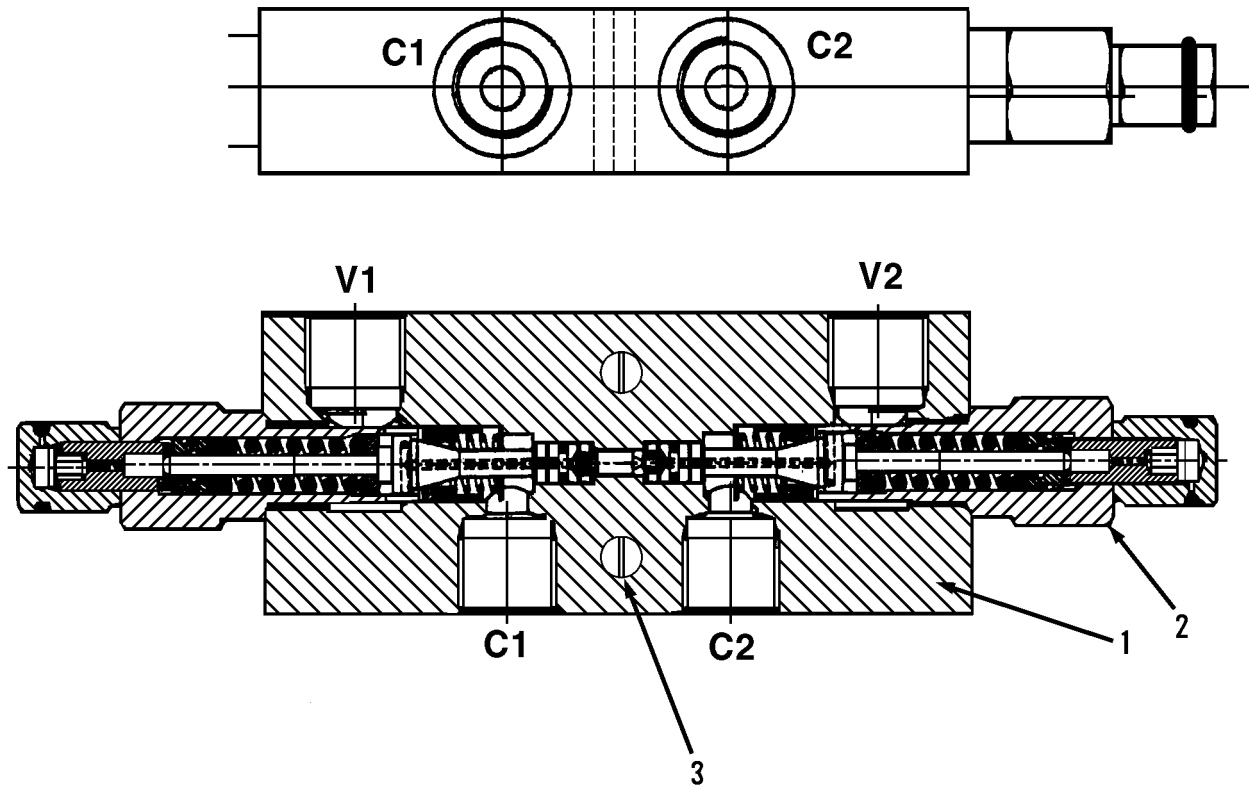
HYDRAULIC COMPONENTS
(8021- 4053) Blade Cylinder Assembly
Starting Serial No. G02003
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8021-4053	1	BLADE CYLINDER ASSY, (includes all items)
1	8021-4195	1	CYLINDER ROD
2	8021-4196	1	CYLINDER TUBE
3	8021-4197	1	PISTON
4	8021-4198	1	CYLINDER HEAD
5	8021-4199	1	ROD WIPER
6	8021-4200	1	ROD SEAL
7	8021-4201	3	GUIDE RING
8	8021-4202	1	SEAL RING
9	8021-4203	1	GASKET
10	8021-4204	2	SEAL RING
11	8021-4205	1	GASKET
12	8021-4206	2	GASKET
13	8021-4207	1	ROLL PIN
14	8021-4208	4	BUSHING
15	8021-4209	1	BUSHING
16	8021-4210	2	LUBE FITTING

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

HYDRAULIC COMPONENTS
(8021-4063) Cylinder Lock Valve Assembly
Starting Serial No. G02003
Original Issue 8-99
Revised 3-24-00

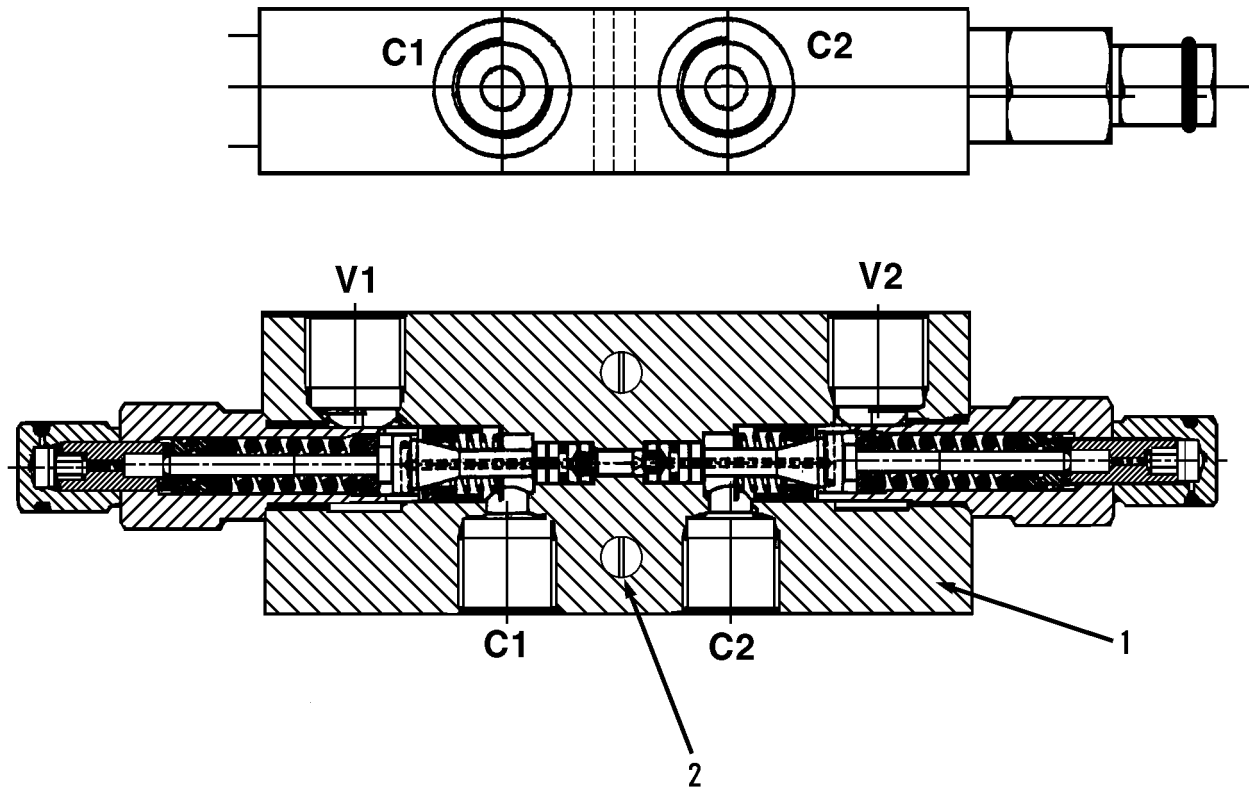


Item	Part No.	Qty.	Description Of Part
*	8021-4063	1	CYLINDER LOCK VALVE ASSY, (includes items 1 & 2)
1		1	VALVE BODY
2	8021-4283	2	CARTRIDGE
3	8021-4139	2	MOUNT SCREW
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

* - Changed part number on assembly
PM

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

HYDRAULIC COMPONENTS
(8021-4356) Cylinder Lock Valve Assembly
Starting Serial No. G0xxxx
Original Issue 5-00

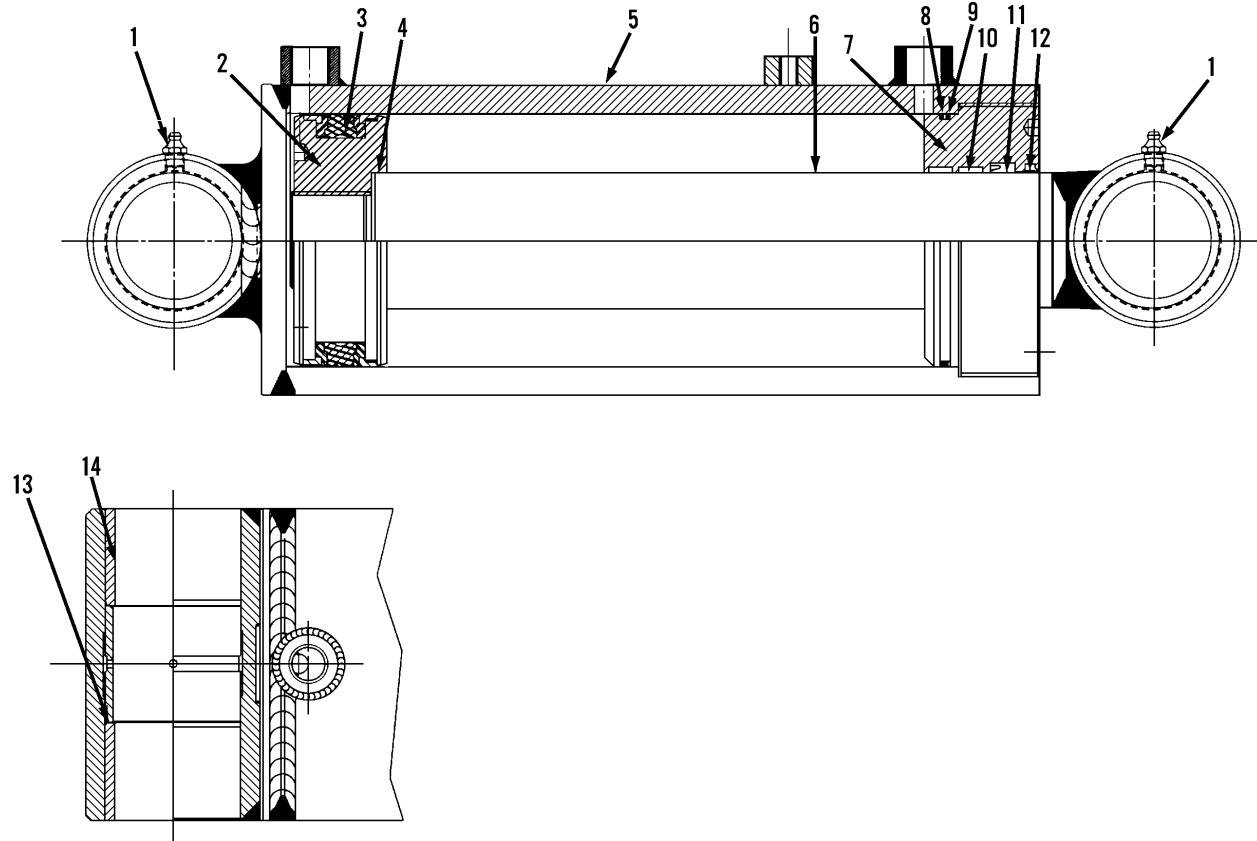


NOTE: IT IS HIGHLY RECOMMENDED THAT IF THIS VALVE REQUIRES A SEAL CHANGE, THAT INSTEAD, THE ENTIRE VALVE BE REPLACED DUE TO THE LOW COST OF THE VALVE AND THE RISK THAT THE VALVE COULD BE CONTAMINATED AND/OR IMPROPERLY REASSEMBLED.

Item	Part No.	Qty.	Description Of Part
1	8021-4356	1	CYLINDER LOCK VALVE ASSY, (includes items 1 & 2)
2	8021-4139	2	VALVE BODY MOUNT SCREW
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

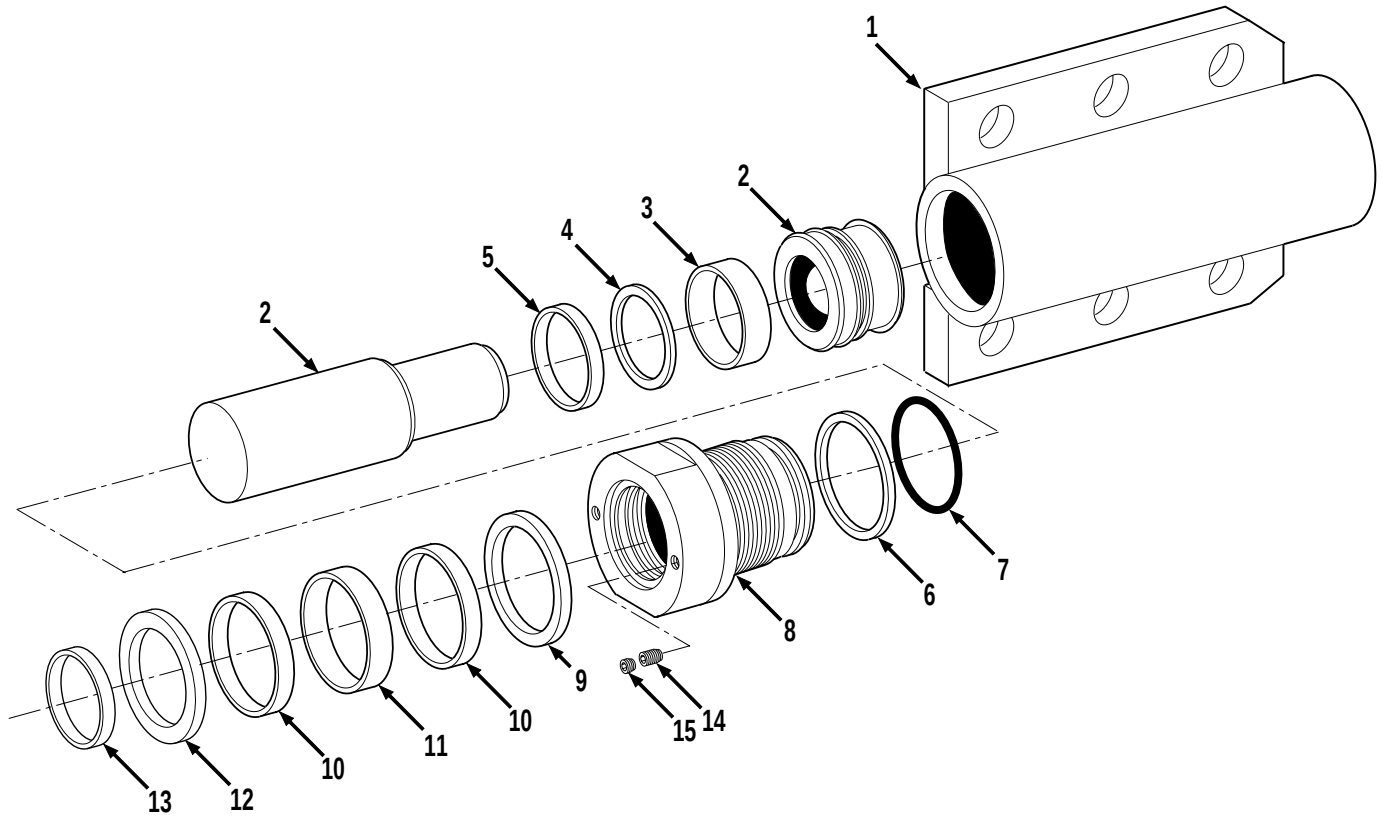
HYDRAULIC COMPONENTS
(8021- 4049) Stabilizer Cylinder Assembly
Starting Serial No. G02003
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8021-4049	1	STABILIZER CYLINDER ASSY, (includes all items)
1	8021-4181	2	LUBE FITTING
2	8021-4182	1	PISTON
3	8021-4183	1	GASKET
4	8021-4184	1	GASKET
5	8021-4185	1	TUBE
6	8021-4186	1	ROD ASSY
7	8021-4187	1	CYLINDER HEAD
8	8021-4188	1	GASKET
9	8021-4189	1	SEAL RING
10	8021-4190	2	GUIDE RING
11	8021-4191	1	ROD SEAL
12	8021-4192	1	ROD WIPER
13	8021-4193	1	BUSHING, (bronze)
14	8021-4194	1	BUSHING

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

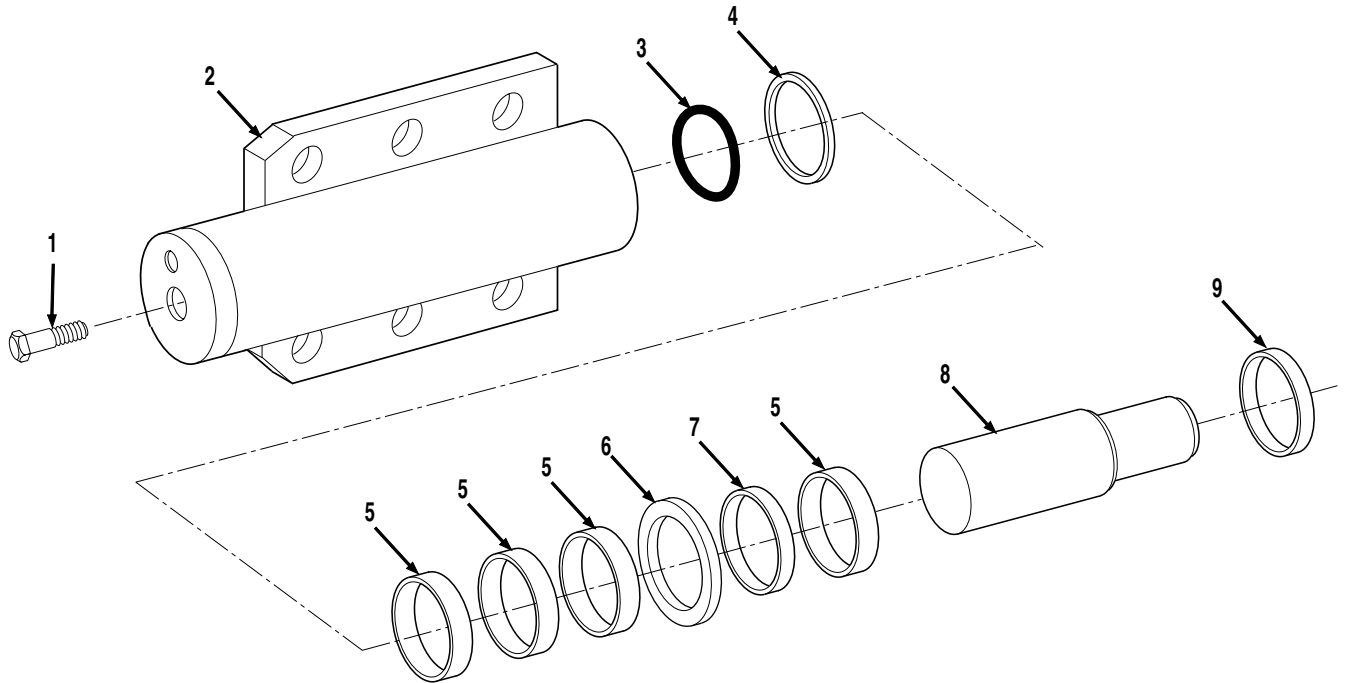
HYDRAULIC COMPONENTS
(8021-4051) Oscillation Cylinder Assembly
Starting Serial No. G02003
Original Issue 8-99
Revised 8-24-01



Item	Part No.	Qty.	Description Of Part
	8021-4051	1	OSCILLATION CYLINDER ASSY, (includes all items)
	8000-3678	1	PACKING KIT, (includes items 3, 4, 5, 6, 7, 9, 10, 11, 12 & 13)
1	8021-4255	1	CYLINDER TUBE WELDMENT
2	8000-1645	1	CYLINDER PISTON & ROD ASSY
3	8000-3677	1	BEARING
4	8000-3676	1	PISTON SEAL
5	8000-3675	1	BEARING
6	8000-3673	1	O-RING
7	8000-3674	1	BACK-UP RING
8	8000-1646	1	CYLINDER HEAD
*9	8000-3672	1	INGESTION RING
10	8000-3669	2	BEARING
11	8000-3670	1	BEARING
12	8000-3671	1	ROD SEAL
13	8000-3668	1	ROD WIPER
14	8822-1054	2	SOCKET SET SCREW, (cup point), 1/4-20X3/8
15	8823-1005	2	SOCKET HOLLOW LOCK SCREW, 1/4-20

* - Changed part number on item 9.

FOR SERVICE ONLY

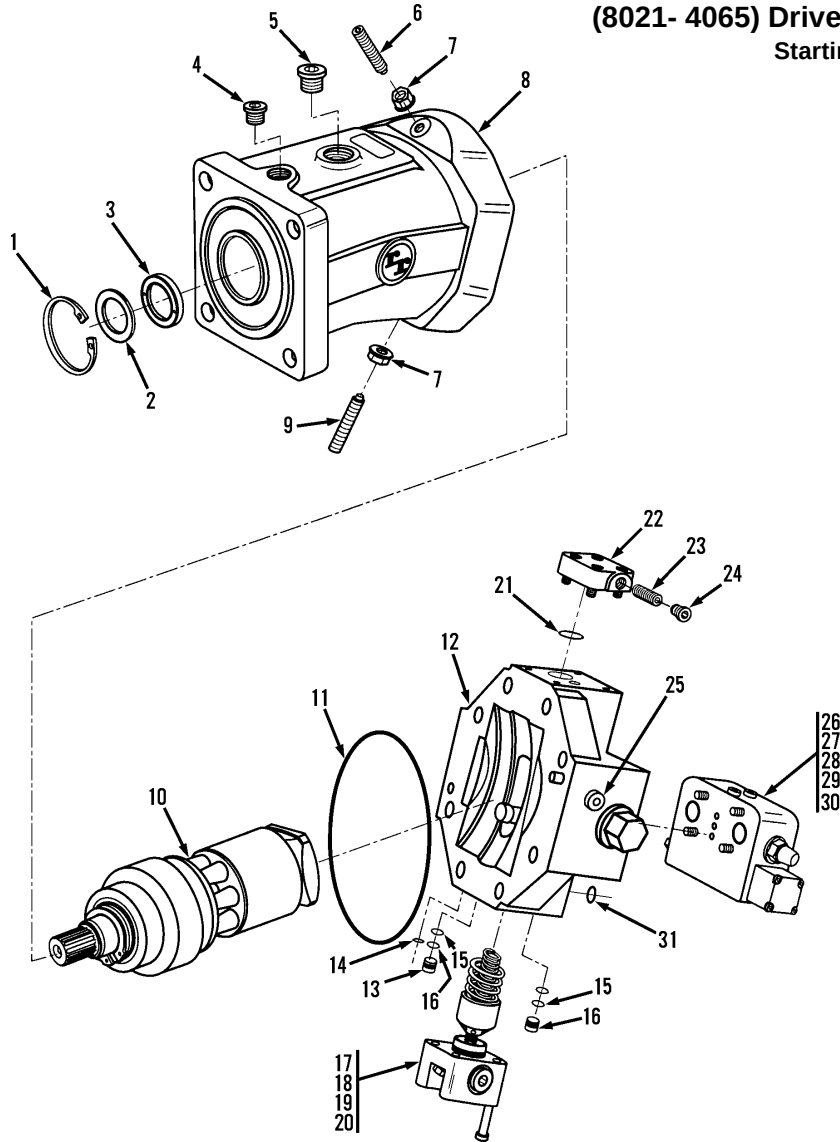


Item	Part No.	Qty.	Description Of Part
	8000-5131	1	OSCILLATION CYLINDER ASSY, (includes items 1 thru 9)
	8000-3705	1	PACKING KIT, (includes items 4, 5, 6, 7 & 9)
	8023-5027	1	OSCILLATION CYLINDER KIT, (includes installation components), (not illustrated)
1	8825-1017	1	SOCKET HD SHOULDER SCREW, 3/8X3/8, (5/16-18 thread), (loctite & torque to 17-22 ft. lbs.)
2	8000-6073	1	OSCILLATION BARREL WELDMENT
3	8000-3711	1	STOP RING
4	8000-3706	1	INGESTION RING
5	8000-3639	4	BEARING
6	8000-3702	1	ROD BUFFER SEAL
7	8000-3703	1	ROD SEAL
8	8000-1667	1	ROD
9	8000-3704	1	ROD WIPER

* - Revised note on item 1; removed items 10 thru 15.

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

HYDRAULIC COMPONENTS
(8021- 4065) Drive Motor Assembly
Starting Serial No. G02003
Original Issue1-00
Revised 8-24-01



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8021-4065	1	DRIVEMOTORASSY, (includes all items)	15		2	O-RING
	8021-4342	1	SEAL KIT, (includes items 3, 7, 11, 14, 15, 16, 18, 19, 20, 21, 24, 25 & 27 thru 31)	16		2	O-RING
1	9109-4026	1	SNAP RING	17	8021-4351	1	CONTROL KIT, (includes items 18, 19 & 20)
2	8021-4343	1	SHIM	18		1	SEAL NUT
3		1	SHAFT SEAL	19		1	PLUG
4	8021-4344	1	PLUG	20		1	O-RING
5	8021-4345	1	PLUG	21		1	O-RING
6	8021-4346	1	STOP SCREW	22	8021-4352	1	STROKING PISTON COVER, (includes items 21 & 24)
7		2	SEAL NUT	23	8021-4353	1	THROTTLE SCREW
8	8021-4347	1	HOUSING	24		1	PLUG
9	9109-4031	1	STOP SCREW	25		2	PLUG
10	8021-4348	1	ROTARY GROUP	26	8021-4354	1	MOTION CONTROL VALVE, (includes items 27 thru 30)
11		1	O-RING	27		1	O-RING
12	8021-4349	1	REAR COVER ASSY, (includes item 31)	28		1	O-RING
13	8021-4350	2	PLUG KIT, (includes items 15 & 16)	29		1	O-RING
14		3	O-RING, (one bottom, two top)	30		1	O-RING
				31		1	O-RING

* - Revised illustration.

TT

UN 3-11

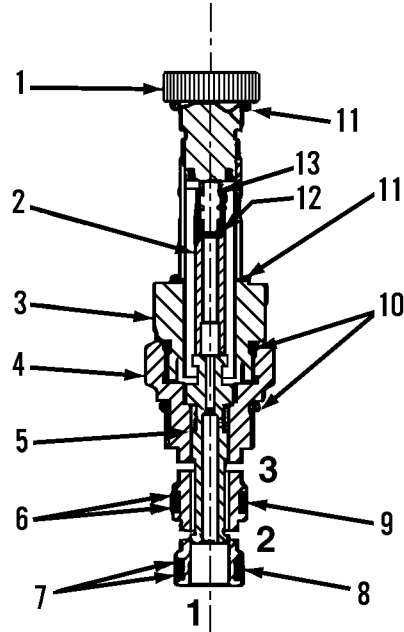
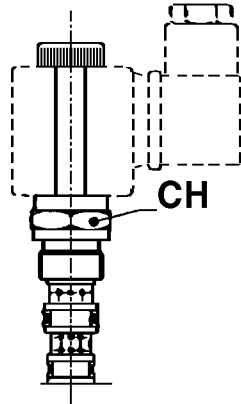
GRADALL[®]
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

HYDRAULIC COMPONENTS
(8021- 4084) Selector Valve Assembly
Starting Serial No. G02003
Original Issue 8-99

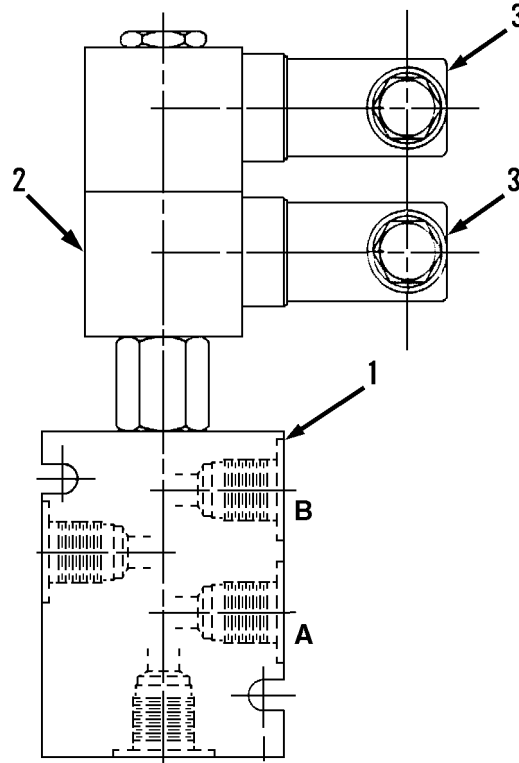
**INFORMATION FOR THIS PAGE
WAS UNAVAILABLE AT THE TIME
OF PRELIMINARY PUBLICATION.**

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

HYDRAULIC COMPONENTS
(8021- 4083) Three-Way Valve Assembly
Starting Serial No. G02003
Original Issue 8-99



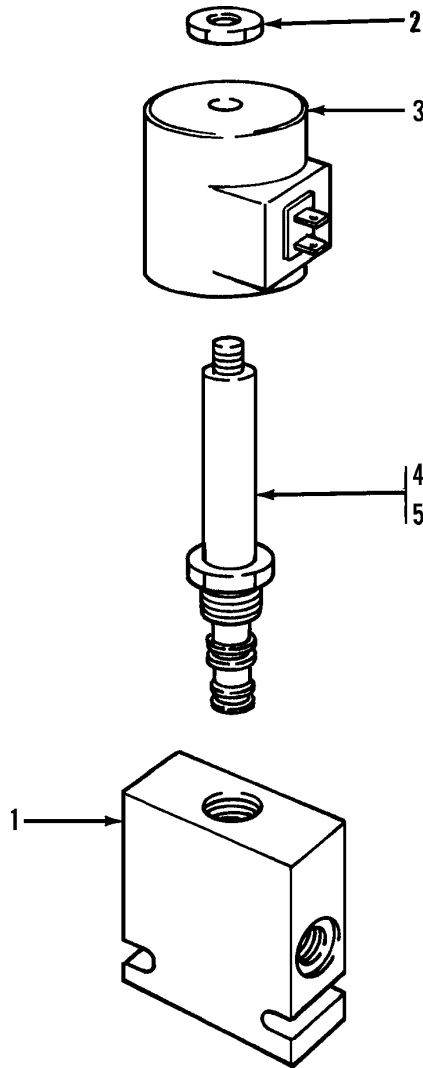
Item	Part No.	Qty.	Description Of Part
	8021-4083	1	THREE-WAY VALVE ASSY, (includes all items)
1	8021-4242	1	COLLAR
2	8021-4243	1	NUCLEOUS
3	8021-4244	1	MAGNETIC FLOAT
4	8021-4245	1	CARTRIDGE
5	8021-4246	1	SLIDE VALVE
6	8021-4447	2	O-RING, (anti-extrusion)
7	8021-4448	2	O-RING, (anti-extrusion)
8	8021-4449	1	O-RING
9	8021-4450	1	O-RING
10	8021-4451	2	O-RING
11	8021-4452	2	O-RING
12	8021-4453	1	SPRING
13	8021-4454	2	WASHER



Item	Part No.	Qty.	Description Of Part
	8023-3296	1	FOUR-WAY VALVE ASSY, (includes all items)
	8023-4327	1	SEAL KIT
1	8023-4328	1	VALVE BODY
2	8023-4329	1	VALVE CARTRIDGE
3	8023-4330	2	COIL

GRADALL[®]
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

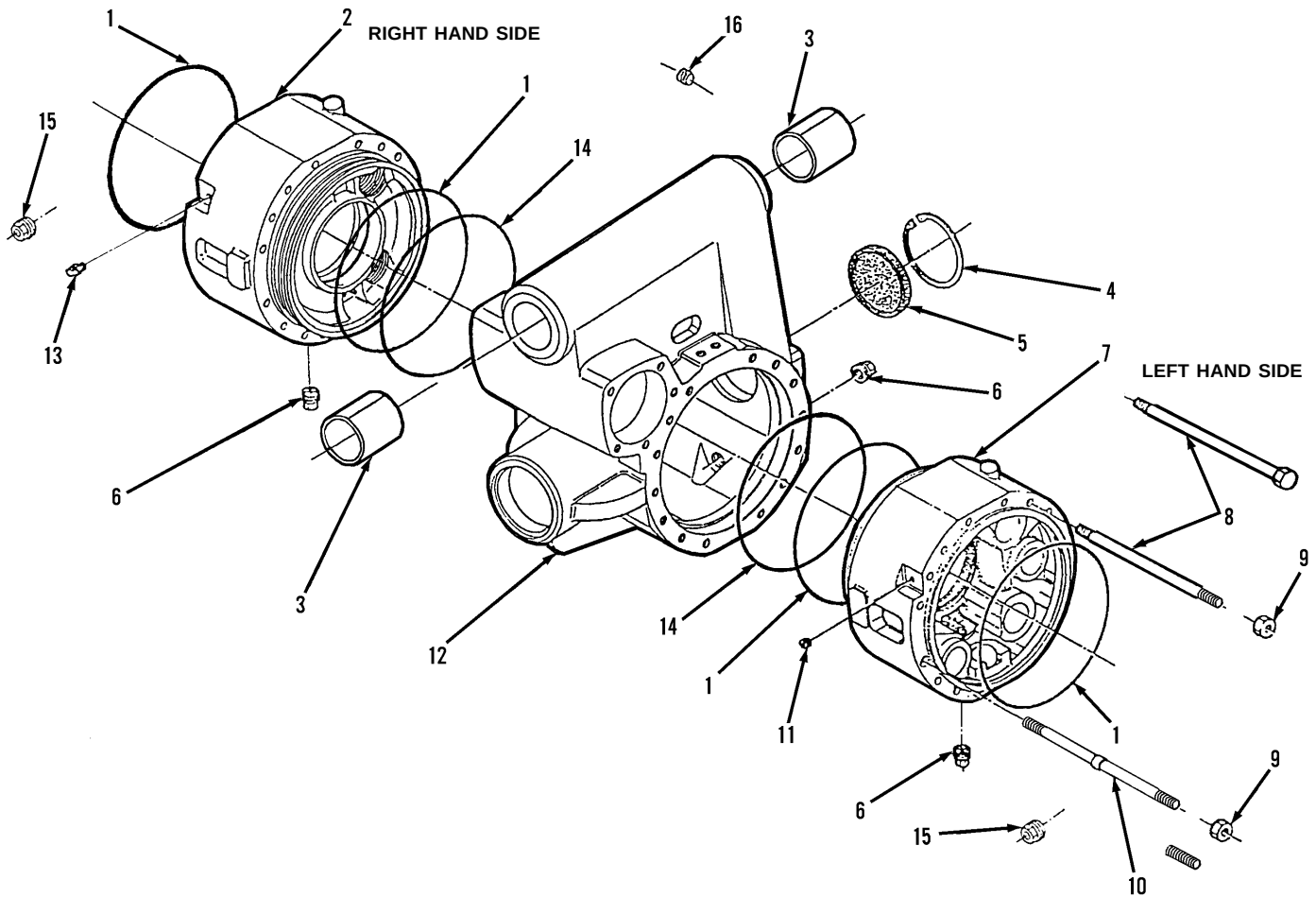
HYDRAULIC COMPONENTS
(8093-3050) Solenoid Valve Assembly
Starting Serial No. G02003
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8093-3050	1	SOLENOID VALVE ASSY, (includes all items)
1	8093-4035	1	VALVE BODY
2	8093-4036	1	HEX NUT
3	8093-4037	1	COIL, 12 VDC
4	8093-4038	1	CARTRIDGE
5	8093-4039	1	CARTRIDGE SEAL KIT

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

FRONT AXLE ASSEMBLY
(8020-4001) Housing & Intermediate Cover Assembly
Starting Serial No. G02003
Original Issue 8-99
Revised 8-24-01

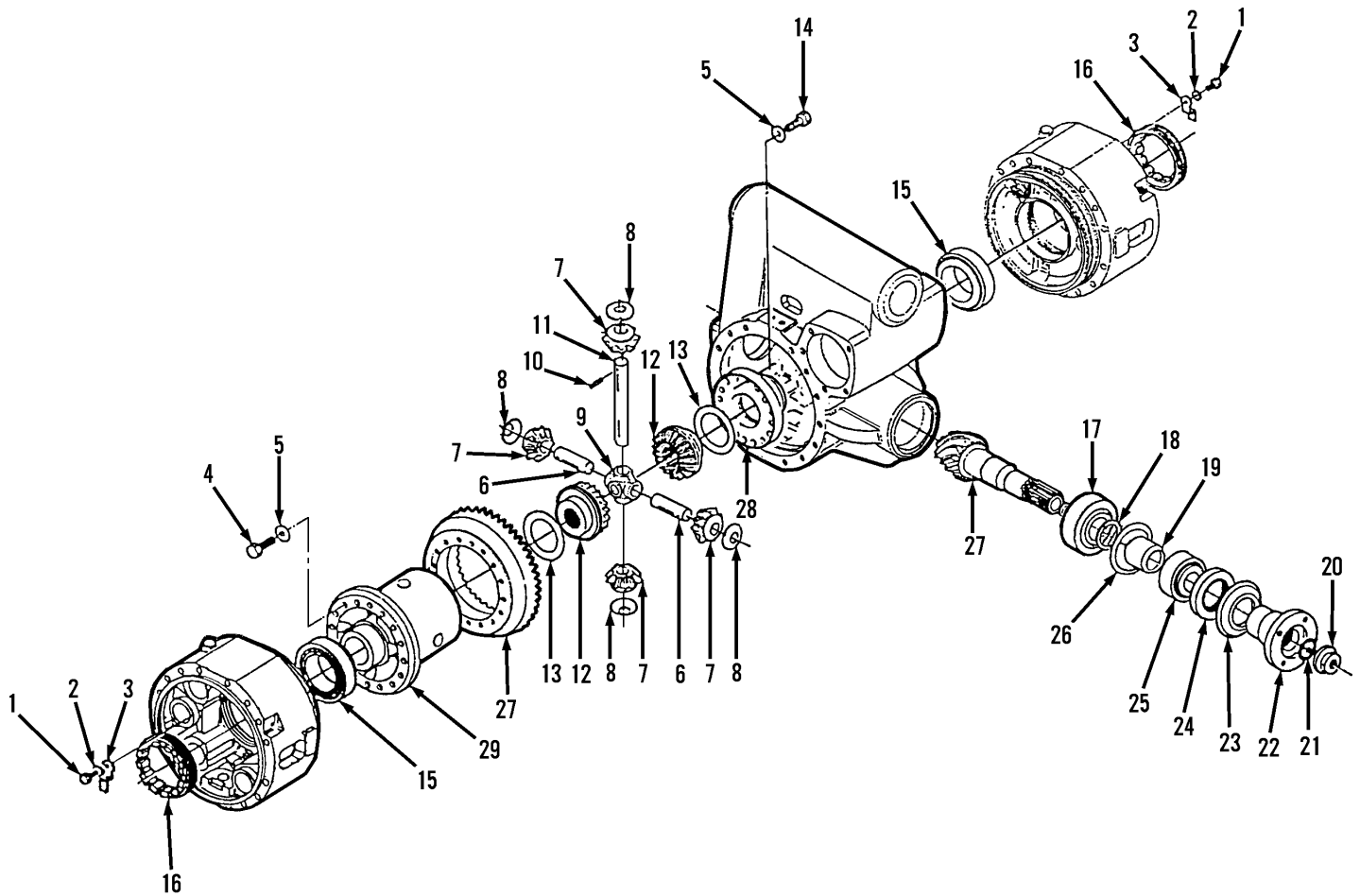


Item	Part No.	Qty.	Description Of Part
*	8020-3007	1	STEER AXLE ASSEMBLY, (includes all items on pages UN4-1 thru UN 4-5)
	8020-4001	1	HOUSING & INTERMEDIATE COVER ASSEMBLY, (includes all items)
1	8020-4002	2	O-RING
2	8020-4003	1	INTERMEDIATE COVER
3	8020-4004	2	THRUST BUSHING
5	8020-4006	1	PLUG
6	8020-4007	3	MAGNETIC PLUG
7	8020-4008	1	INTERMEDIATE COVER
8	8020-4009	28	STUD
9	8020-4010	32	NUT
10	8020-4011	4	STUD
11	8020-4012	1	PLUG
12	8020-4013	1	HOUSING
13	8020-4014	1	VENT
14	8020-4015	2	O-RING
15	8020-4016	4	PLUG
16	8020-4017	2	BOLT

* - Revised note on part number 8020-3007.

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

FRONT AXLE ASSEMBLY
(8020-4018) Differential Assembly
Starting Serial No. G02003
Original Issue 8-99
Revised 8-24-01



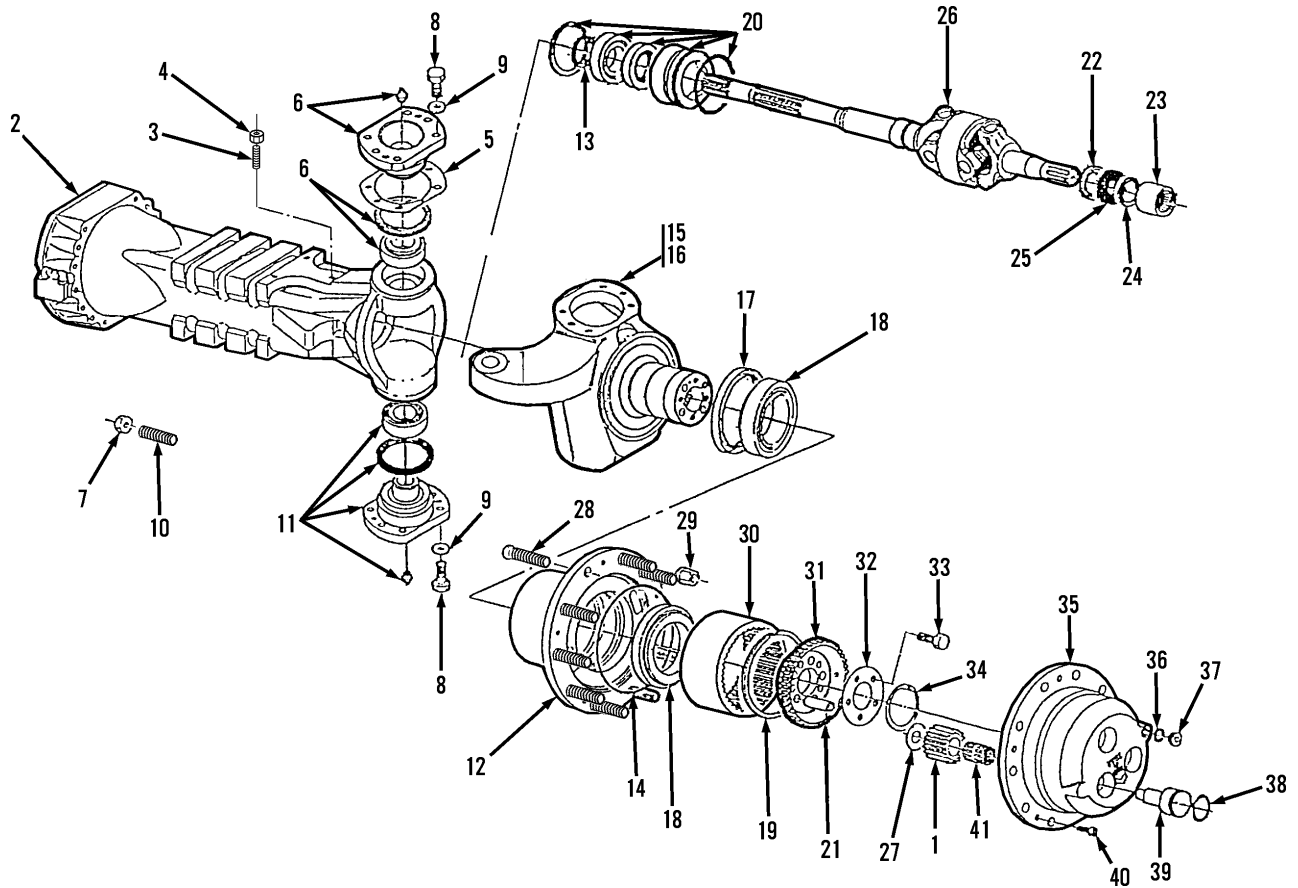
Item	Part No.	Qty.	Description Of Part
	8020-4018	1	DIFFERENTIAL ASSEMBLY, (includes all items)
1	8020-4019	2	BOLT
2	8020-4020	2	LOCKWASHER
3	8020-4021	2	LOCKING PLATE
4	8020-4022	16	HEX HD CAPSCREW
5	8020-4023	16	SPRING WASHER
6	8020-4024	2	PIN
7	8020-4025	4	DIFFERENTIAL PINION
8	8020-4026	4	FRICTION WASHER
9	8020-4027	1	SHAFT RETAINER
10	8020-4028	3	ROLL PIN
11	8020-4029	1	PIN
12	8020-4030	2	DIFFERENTIAL SIDE GEAR
13	8020-4031	2	FRICTION WASHER
14	8020-4032	8	HEX HD CAPSCREW
*15	8020-4033	2	ROLLER BEARING
16	8020-4034	2	RING NUT
17	8020-4035	1	ROLLER BEARING

Item	Part No.	Qty.	Description Of Part
18	8020-4036	1	SHIM
	8020-4037	1	SHIM
	8020-4038	1	SHIM
	8020-4039	1	SHIM
	8020-4040	5	SHIM
	8020-4041	3	SHIM
19	8020-4042	1	SPACER
20	8020-4043	1	NUT
21	8020-4044	1	O-RING
22	8020-4045	1	FLANGE
23	8020-4046	1	COVER PLATE
24	8020-4047	1	SEAL
25	8020-4048	1	ROLLER BEARING
26	8020-4049	1	SHIM
	8020-4050	1	SHIM
	8020-4051	1	SHIM
	8020-4052	1	SHIM
27	8020-4053	1	BEVEL GEAR SET
28	8020-4054	1	COVER
29	8020-4055	1	DIFFERENTIAL CARRIER

* - Changed quantity on item 15; revised illustration.

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

FRONT AXLE ASSEMBLY
(8020-4056) Steer Knuckle & Reducing Gear Assembly
Starting Serial No. G02003
Original Issue 8-99
Revised 4-5-02



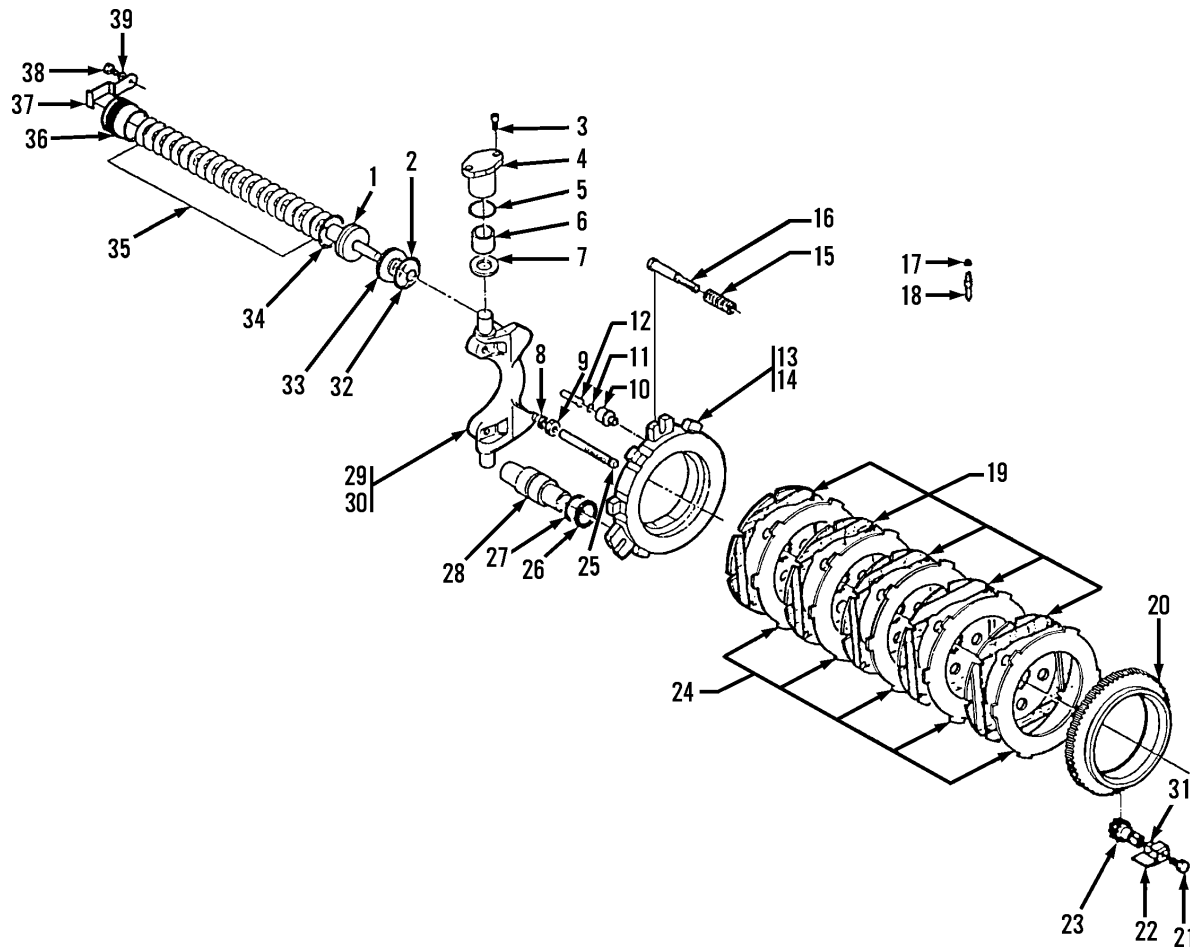
Item	Part No.	Qty.	Description Of Part
	8020-4056	1	STEER KNUCKLE & REDUCING GEAR ASSY, (includes all items)
*1	8020-4057	6	PLANETARY GEAR
2	8020-4058	2	AXLE CASE
3	8020-4059	4	GRUB BOLT
4	8020-4060	4	NUT
5	8020-4061	8	SHIM
	8020-4062	2	SHIM
	8020-4063	2	SHIM
6	8020-4064	2	PIVOT PIN
7	8020-4065	4	NUT
8	8020-4066	24	HEX HD CAPSCREW
9	8020-4067	24	SPRING WASHER
10	8020-4068	4	ADJUSTING BOLT
11	8020-4069	2	PIVOT PIN
12	8020-4070	2	WHEEL HUB
13	8020-4071	2	CIRCLIP
14	8020-4072	2	O-RING
15	8020-4073	1	STEERING CASE, L.H.
16	8020-4074	1	STEERING CASE, R.H.
17	8020-4075	2	SEAL
18	8020-4076	4	ROLLER BEARING
19	8020-4077	2	SNAP RING

Item	Part No.	Qty.	Description Of Part
20	8020-4078	2	REDUCING BUSHING
21	8020-4079	10	DOWEL
22	8020-4080	2	DUST SHIELD
23	8020-4081	4	NEEDLE BEARING
24	8020-4082	2	RING
25	8020-4083	2	SEAL
26	8020-4084	2	JOINT
27	8020-4085	6	FRICTION WASHER
28	8021-4120	20	WHEEL STUD
29	8021-4119	20	WHEEL NUT
30	8020-4088	2	RING GEAR
31	8020-4089	2	RING GEAR SUPPORT
32	8020-4090	2	LOCKING PLATE
33	8020-4091	10	HEX HD CAPSCREW
34	8020-4092	2	CIRCLIP
35	8020-4093	2	PLANETARY GEAR CARRIER
36	8020-4094	2	SEAL WASHER
37	8020-4095	2	PLUG
38	8020-4096	6	O-RING
39	8020-4097	6	PIN
40	8020-4098	4	CYLINDER BOLT
41	8020-4099	6	NEEDLE BEARING

* - Changed quantity on item 1.

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

FRONT AXLE ASSEMBLY
(8020-4100) Brake Components
Starting Serial No. G02003
Original Issue 8-99
Revised 4-5-02



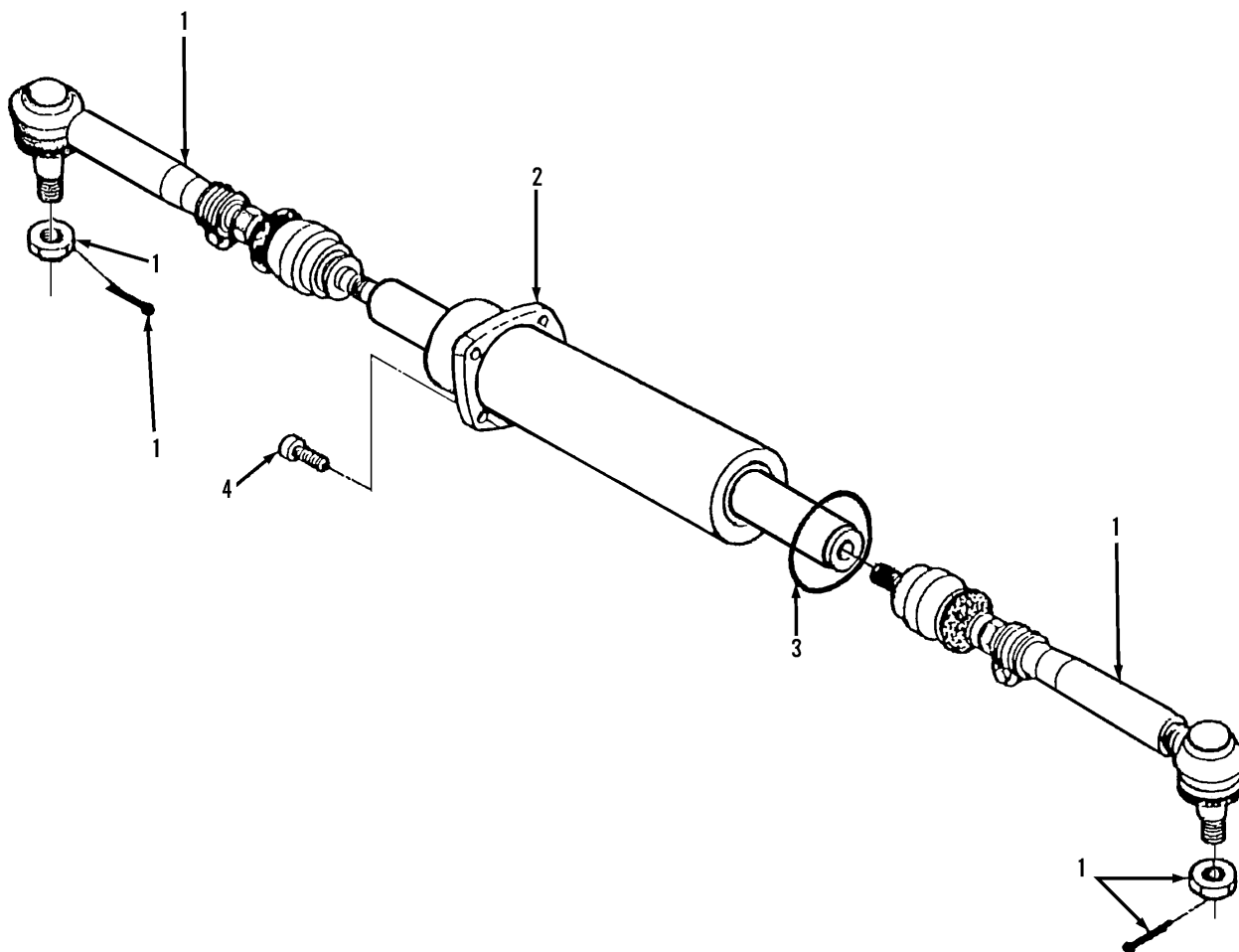
Item	Part No.	Qty.	Description Of Part
	8020-4100	1	BRAKE ASSY, (includes all items)
1	8020-4101	4	PISTON
2	8020-4102	4	O-RING
3	8020-4103	8	CYLINDER BOLT
*4	8020-4104	4	REDUCING BUSHING
*5	8020-4105	4	O-RING
6	8020-4106	4	BUSHING
7	8020-4107	4	FRICTION WASHER
8	8020-4108	2	LOCKWASHER
9	8020-4109	2	NUT
10	8020-4110	4	PLUG
11	8020-4111	4	O-RING
12	8020-4112	4	PUSH ROD
13	8020-4113	1	DISC
14	8020-4114	1	DISC
15	8020-4115	6	SPRING
16	8020-4116	6	STEERING ADJUSTING BOLT
17	8020-4117	2	PLUG
18	8020-4118	2	BLEED SCREW
19	8020-4119	10	BRAKE DISC

Item	Part No.	Qty.	Description Of Part
20	8020-4120	2	RING
21	8020-4121	2	HEX HD CAPSCREW
22	8020-4122	2	LOCKING PLATE
23	8020-4123	2	PINION
24	8020-4124	10	BRAKE DISC
25	8020-4125	2	ADJUSTING BOLT
26	8020-4126	6	BACK-UP RING
27	8020-4127	6	O-RING
28	8020-4128	6	PISTON
29	8020-4129	1	LEVER, L.H
30	8020-4130	1	LEVER, R.H
31	8020-4131	2	O-RING
32	8020-4132	4	O-RING
33	8020-4133	4	PLUG
34	8020-4134	4	O-RING
35	8020-4135	76	SPRING
36	8020-4136	4	CYLINDER
37	8020-4137	4	LOCKING PLATE
38	8020-4019	4	BOLT
39	8020-4139	4	LOCKWASHER

* - Added left and right designation to items 29 & 30.

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

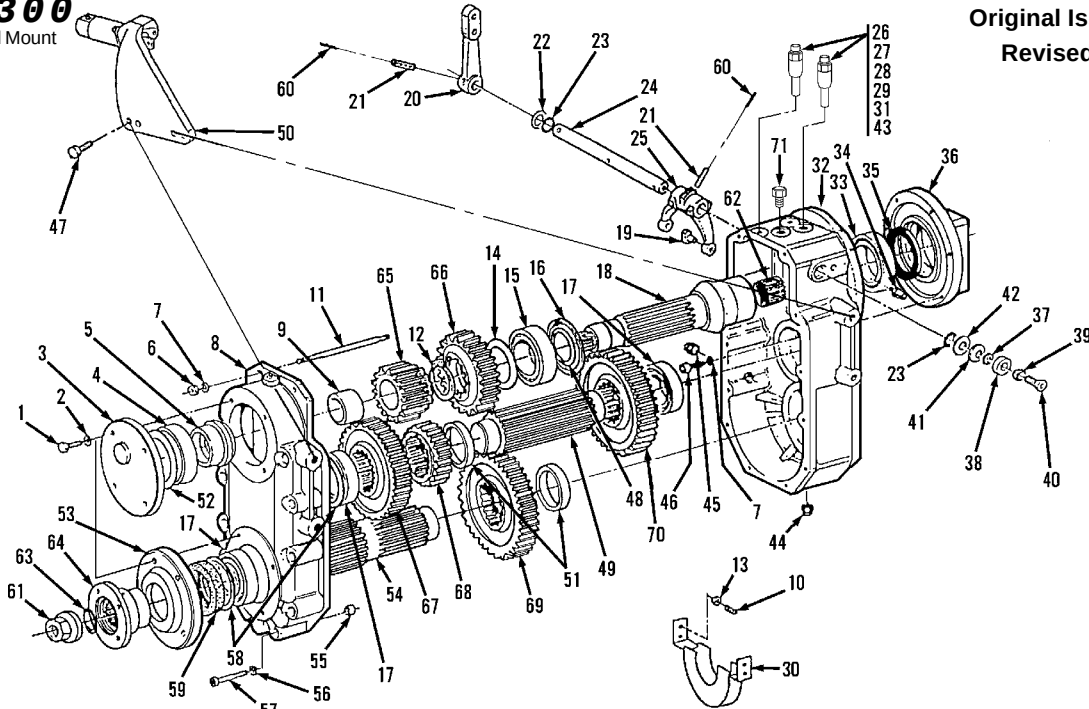
FRONT AXLE ASSEMBLY
(8021-4158) Steer Cylinder
Starting Serial No. G02003
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8021-4158	1	STEER CYLINDER ASSY, (includes all items)
1	8020-4141	2	TIE ROD
2	8020-4142	1	CYLINDER
3	8020-4143	2	O-RING
4	8020-4144	5	CYLINDER BOLT

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

REAR AXLE ASSEMBLY
Drive Axle Gearbox Assembly
Starting Serial No. G02003
Original Issue 8-99
Revised 8-17-02



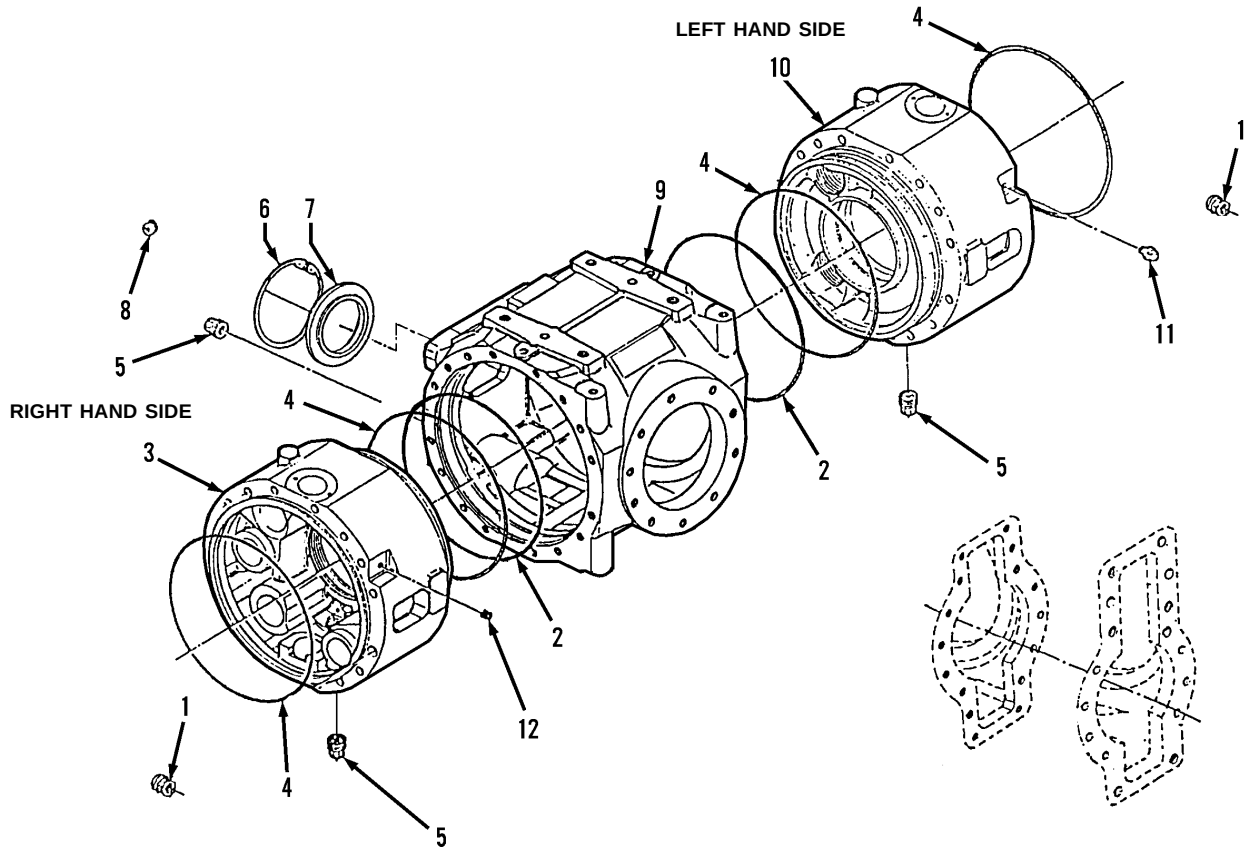
Item	Part No.	Qty.	Description Of Part
	8020-3008	1	DRIVE AXLE ASSY, (includes all items on pages UN5-6 thru UN5-11)
	8020-4145	1	DRIVE AXLE GEARBOX ASSY, (includes all items)
1	8021-4146	4	HEX HD CAPSCREW
2	8020-4147	4	SPRING WASHER
3	8020-4148	1	COVER
4	8020-4149	1	BALL BEARING
5	8020-4150	1	REDUCING BUSHING
6	8020-4151	2	NUT
7	8020-4152	6	SPRING WASHER
8	8020-4153	1	HOUSING
9	8020-4154	1	BEARING INNER RACE
10	8020-4155	4	BOLT
11	8020-4156	2	STUD
12	8020-4071	1	CIRCLIP
13	8020-4158	4	NUT
14	8020-4159	1	SHIM
15	8020-4160	1	BALL BEARING
16	8020-4005	1	CIRCLIP
17	8020-4162	2	BALL BEARING
18	8020-4163	1	INPUT SHAFT
19	8020-4164	2	SLIDE PIN
20	8020-4165	1	LEVER
21	8020-4166	2	ROLL PIN
22	8020-4167	1	SHIM
23	8020-4168	2	O-RING
24	8020-4169	1	PIN
25	8020-4170	1	SELECTOR FORK
*26	8020-3025	2	SENSOR, (includes items 26 thru 29, 31 & 43)
*27	8020-3019	6	O-RING
*28	8020-3020	6	WASHER
*29	8020-3021	4	SPRING
30	8020-4175	1	COVER PLATE
*31	8020-3022	2	ADAPTER
32	8020-4177	1	COVER
33	8020-4178	1	BALL BEARING
34	8020-4014	1	VENT
35	8020-4180	1	SEAL
36	8020-4181	1	COVER
37	8020-4182	1	SHIM

Item	Part No.	Qty.	Description Of Part
	8020-4183	1	SHIM
	8020-4184	1	SHIM
38	8020-4185	1	SPACER
39	8020-4186	1	SPRING WASHER
40	8020-4187	1	COUNTERSINK BOLT
41	8020-4188	1	CUP SPRING
42	8020-4189	1	SPACER
*43	8020-3023	2	DOWEL
44	8020-4007	1	MAGNETIC PLUG
45	8020-4016	1	PLUG
46	8020-4193	4	CYLINDER BOLT
47	8020-4194	2	HEX HD CAPSCREW
48	8020-4195	1	SHIM
49	8020-4196	1	SHAFT
50	8020-4197	1	CYLINDER
51	8020-4198	2	SPACER
52	8020-4049	1	SHIM
	8020-4050	1	SHIM
	8020-4051	1	SHIM
53	8020-4202	1	COVER
54	8020-4203	1	OUTPUT SHAFT
55	8020-4204	1	REDUCING BUSHING
56	8020-4205	10	SPRING WASHER
57	8020-4206	10	CYLINDER BOLT
58	8020-4207	2	SHIM
	8020-4208	2	SHIM
	8020-4209	2	SHIM
	8020-4210	1	SHIM
59	8020-4211	1	SEAL
60	8020-4212	2	ROLL PIN
61	8020-4213	1	NUT
62	8020-4214	1	BUSHING
63	8020-4215	1	O-RING
64	8020-4216	1	FLANGE
65	8020-4290	1	GEAR
66	8020-4289	1	GEAR
67	8020-4293	1	GEAR
68	8020-4292	1	GEAR
69	8020-4294	1	GEAR
70	8020-4291	1	GEAR
*71	8020-3024	1	PLUG

* - Changed part numbers on items 26 thru 29, 31 & 43; changed inclusion note on item 26; added item 71.

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

REAR AXLE ASSEMBLY
(8020-4217) Rear Axle Housing & Cover Assembly
Starting Serial No. G02003
Original Issue 8-99
Revised 7-13-01



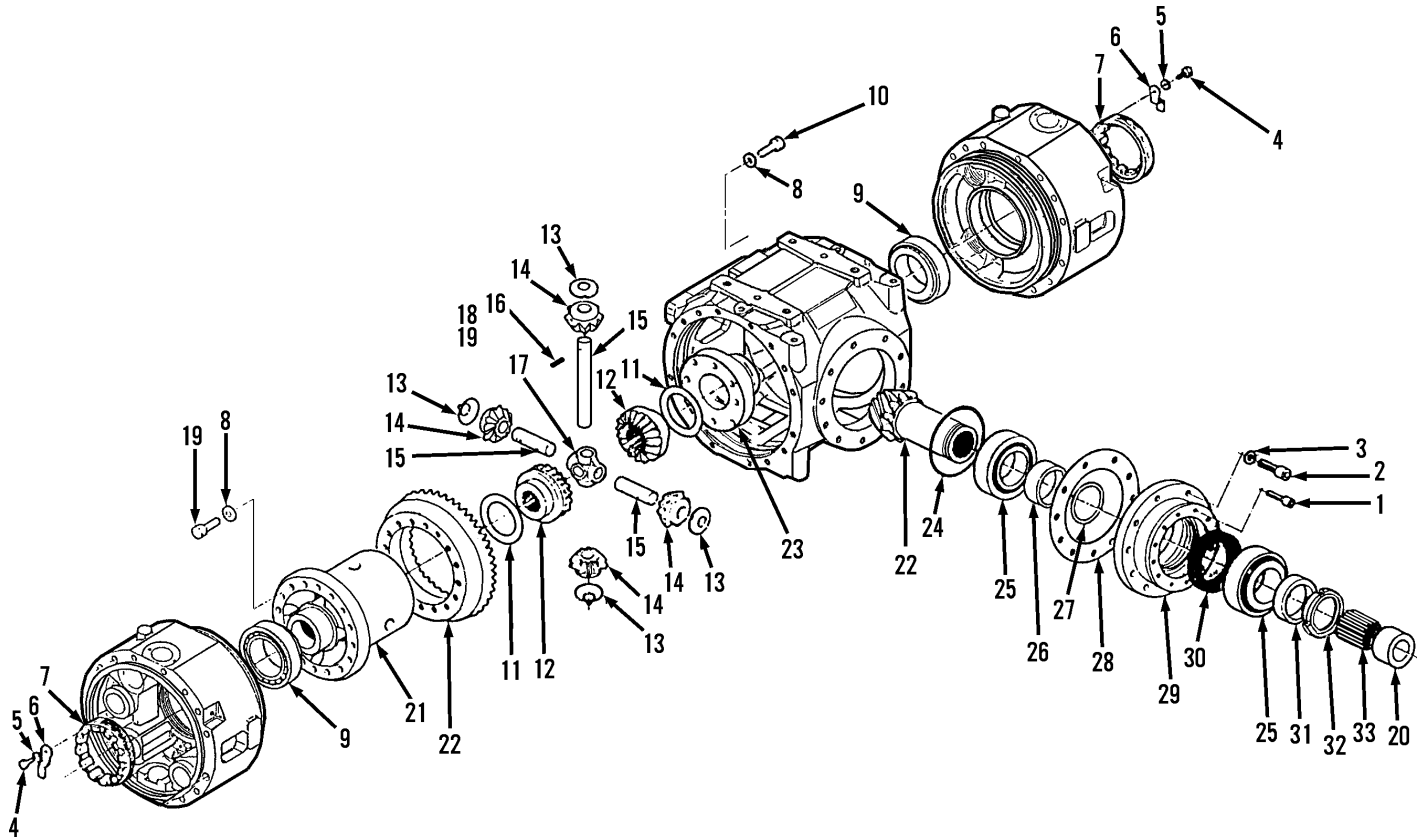
Item	Part No.	Qty.	Description Of Part
	8020-4217	1	REAR AXLE HOUSING & COVER ASSY, (includes all items)
1	8020-4218	4	PLUG
2	8020-4219	2	O-RING
3	8020-4003	1	INTERMEDIATE COVER
4	8020-4002	2	O-RING
5	8020-4007	3	MAGNETIC PLUG
6	8020-4223	1	SNAP RING
7	8020-4224	1	PLUG
8	8020-4225	2	BOLT
9	8020-4226	1	HOUSING
10	8020-4008	1	INTERMEDIATE COVER
11	8020-4228	1	VENT
12	8020-4229	1	PLUG

* - Revised illustration.

TT

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

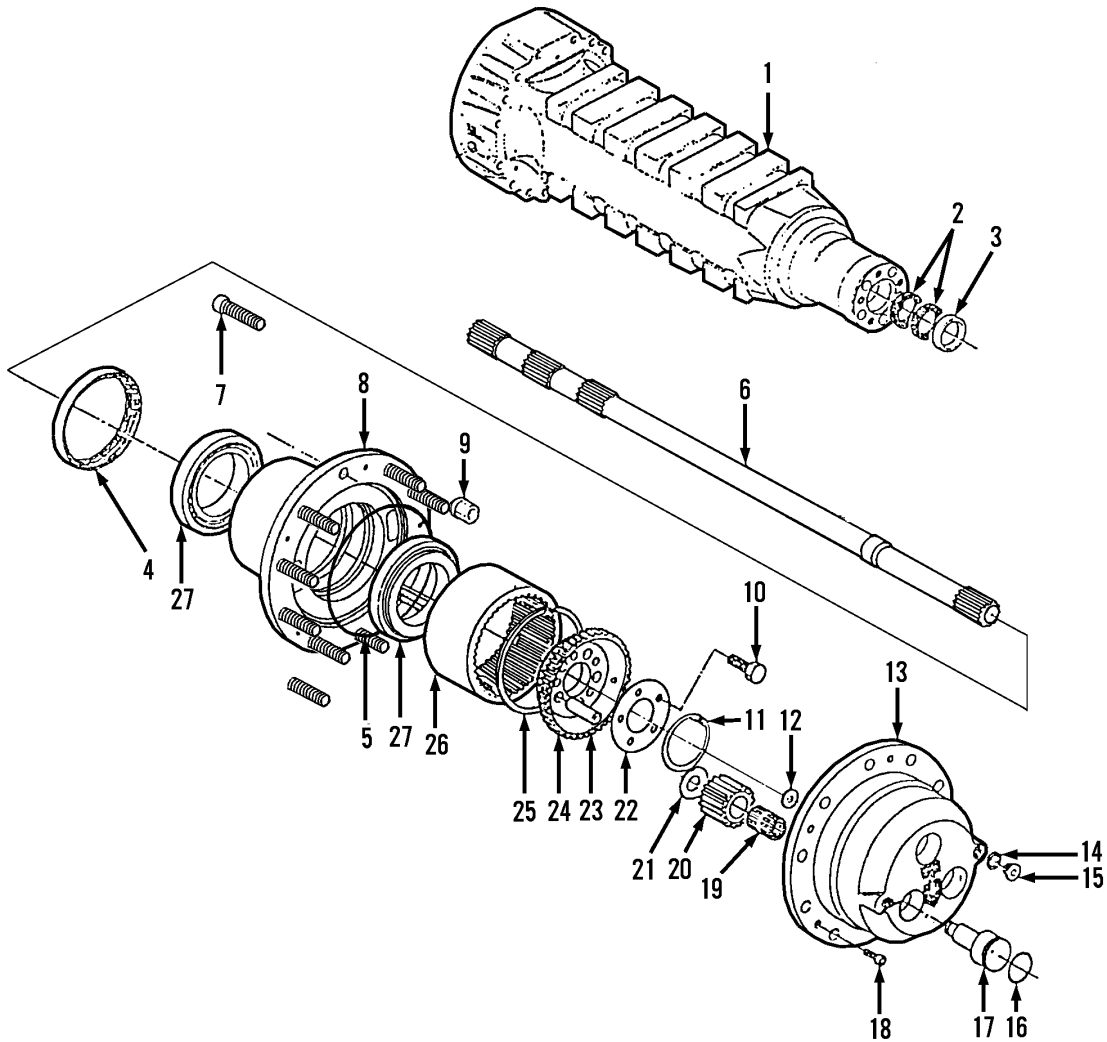
REAR AXLE ASSEMBLY
(8020-4230) Differential Assembly
Starting Serial No. G02003
Original Issue 8-99
Revised 7-13-01



Item	Part No.	Qty.	Description Of Part
	8020-4230	1	DIFFERENTIAL ASSY, (includes all items)
1	8020-4231	12	CYLINDER BOLT
2	8020-4232	10	CYLINDER BOLT
3	8020-4233	10	SPRING WASHER
4	8020-4019	2	BOLT
5	8020-4020	2	LOCKWASHER
6	8020-4021	2	LOCKING PLATE
7	8020-4034	2	RING NUT
8	8020-4023	16	SPRING WASHER
9	8020-4033	1	ROLLER BEARING
10	8020-4032	8	HEX HD CAPSCREW
11	8020-4031	2	FRICTION WASHER
12	8020-4030	2	DIFFERENTIAL SIDE GEAR
13	8020-4026	4	FRICTION WASHER
14	8020-4025	4	DIFFERENTIAL PINION
15	8020-4029	1	PIN
16	8020-4028	3	ROLL PIN
17	8020-4027	1	SHAFT RETAINER
18	8020-4024	2	PIN
19	8020-4249	16	HEX HD CAPSCREW
20	8020-4250	1	SPACER

Item	Part No.	Qty.	Description Of Part
21	8020-4055	1	DIFFERENTIAL CARRIER
22	8020-4252	1	RING GEAR & PINION SET
23	8020-4054	1	COVER
24	8020-4254	1	O-RING
25	8020-4255	2	ROLLER BEARING
26	8020-4256	1	SPACER
27	8020-4257	1	SHIM
	8020-4258	1	SHIM
	8020-4259	1	SHIM
	8020-4260	1	SHIM
	8020-4261	1	SHIM
	8020-4262	1	SHIM
	8020-4263	1	SHIM
28	8020-4264	1	SHIM
	8020-4265	1	SHIM
	8020-4266	1	SHIM
	8020-4267	1	SHIM
29	8020-4268	1	COVER
30	8020-4269	1	SEAL
31	8020-4270	1	SPACER
32	8020-4271	1	RING NUT
33	8020-4272	1	BUSHING

* - Revised illustration



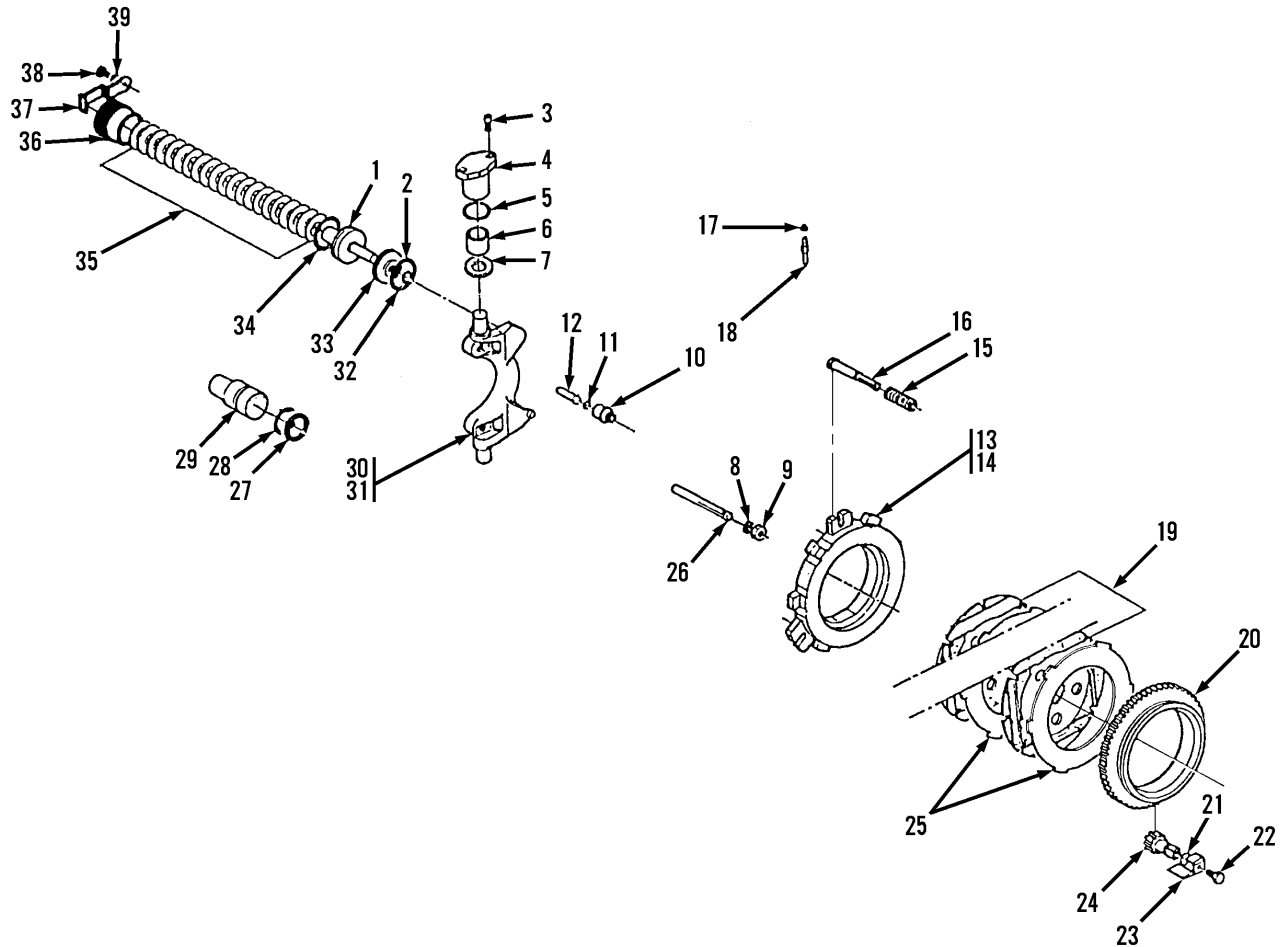
Item	Part No.	Qty.	Description Of Part
	8020-4273	1	STEER KNUCKLE & WHEEL END ASSY, (includes all items)
1	8020-4274	2	AXLE CASE
2	8020-4275	2	SEAL
3	8020-4276	2	CENTERING RING
4	8020-4075	2	SEAL
5	8020-4002	2	O-RING
6	8020-4277	2	HALF SHAFT
*7	8021-4120	20	WHEEL STUD
8	8020-4278	2	WHEEL HUB
*9	8021-4119	20	WHEEL NUT
10	8020-4091	10	HEX HD CAPSCREW
11	8020-4092	2	CIRCLIP
12	8020-4279	2	FRICTION WASHER
13	8020-4093	2	PLANETARY GEAR CARRIER

Item	Part No.	Qty.	Description Of Part
14	8020-4094	2	SEAL WASHER
15	8020-4095	2	PLUG
16	8020-4096	6	O-RING
17	8020-4097	6	PIN
18	8020-4098	4	CYLINDER BOLT
19	8020-4099	6	NEEDLE BEARING
20	8020-4057	6	PLANETARY GEAR
21	8020-4085	6	FRICTION WASHER
22	8020-4090	2	LOCKING PLATE
23	8020-4079	10	DOWEL
24	8020-4089	2	RING GEAR SUPPORT
25	8020-4077	2	SNAP RING
26	8020-4088	2	RING GEAR
27	8020-4076	4	ROLLER BEARING

* - Changed part numbers on items 7 & 9.

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

REAR AXLE ASSEMBLY
(8020-4280) Brake Assembly
Starting Serial No. G02003
Original Issue 8-99

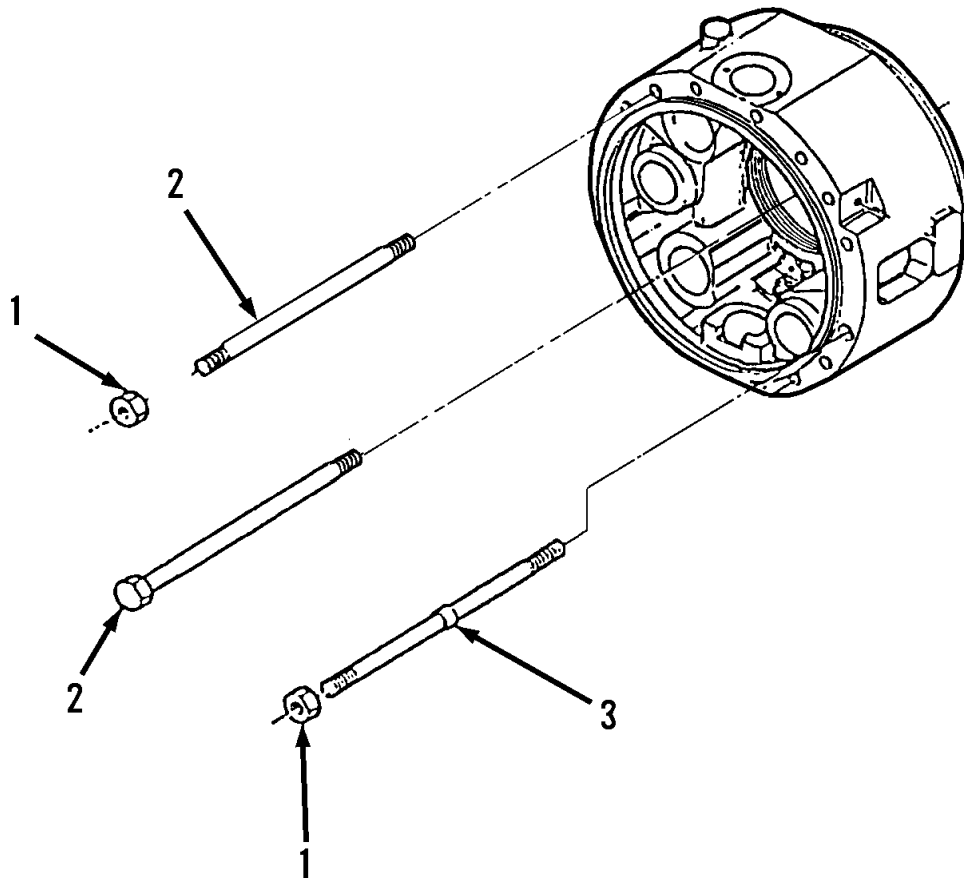


Item	Part No.	Qty.	Description Of Part
	8020-4280	1	BRAKE ASSY, (includes all items)
1	8020-4101	4	PISTON
2	8020-4102	4	O-RING
3	8020-4103	8	CYLINDER BOLT
4	8020-4104	4	REDUCING BUSHING
5	8020-4105	4	O-RING
6	8020-4106	4	BUSHING
7	8020-4107	4	FRICTION WASHER
8	8020-4108	2	LOCKWASHER
9	8020-4109	2	NUT
10	8020-4110	4	PLUG
11	8020-4111	4	O-RING
12	8020-4112	4	PUSH ROD
13	8020-4113	1	DISC, L. H.
14	8020-4114	1	DISC, R. H.
15	8020-4115	6	SPRING
16	8020-4116	6	STEERING ADJUSTMENT BOLT
17	8020-4117	2	PLUG
18	8020-4281	2	BLEED SCREW
19	8020-4119	10	BRAKE DISC

Item	Part No.	Qty.	Description Of Part
20	8020-4120	2	RING
21	8020-4282	2	O-RING
22	8020-4121	2	HEX HD CAPSCREW
23	8020-4122	2	LOCKING PLATE
24	8020-4123	2	PINION
25	8020-4124	10	BRAKE DISC
26	8020-4125	2	ADJUSTING BOLT
27	8020-4126	6	BACK-UP RING
28	8020-4127	6	O-RING
29	8020-4128	6	PISTON
30	8020-4130	1	LEVER, L. H.
31	8020-4129	1	LEVER, R. H.
32	8020-4132	4	O-RING
33	8020-4133	4	PLUG
34	8020-4134	4	O-RING
35	8020-4135	76	SPRING
36	8020-4136	5	CYLINDER
37	8020-4137	4	LOCKING PLATE
38	8020-4138	2	BOLT
39	8020-4139	2	LOCKWASHER

GRADALL
HYDRAULIC EXCAVATOR
Undercarriage
XL2300
Wheeled Mount

REAR AXLE ASSEMBLY
(8020-4283) Stud Kit
Starting Serial No. G02003
Original Issue 8-99
Revised 7-13-01



Item	Part No.	Qty.	Description Of Part
	8020-4283	1	STUD KIT, (includes all items)
1	8020-4010	4	NUT
2	8020-4284	28	BOLD
3	8020-4011	4	STUD

* - Revised parts list.

TT

UN 5-6

Air Conditioner Installation	8026-5007
AM/FM Cassette Stereo Installation	8026-5010
Auxiliary Fan Installation	8026-5008
Auxiliary Hydraulic Valve Field Conversion	8023-5003
Battery Installation, Additional	8026-5005
Cold Start Installation	8026-5006
Engine Air Precleaner Installation	8026-5016
Engine Block Heater Installation	8026-5013
Engine Shutdown Installation	8026-5012
Floodlight Installation	8026-5003
Four-line Hose Trough Installation, (360 Tilt)	8022-5002
Seat Belts	8026-5018
Spark Arrestor Installation	8027-5007
Vandal Covers Installation	8026-5014

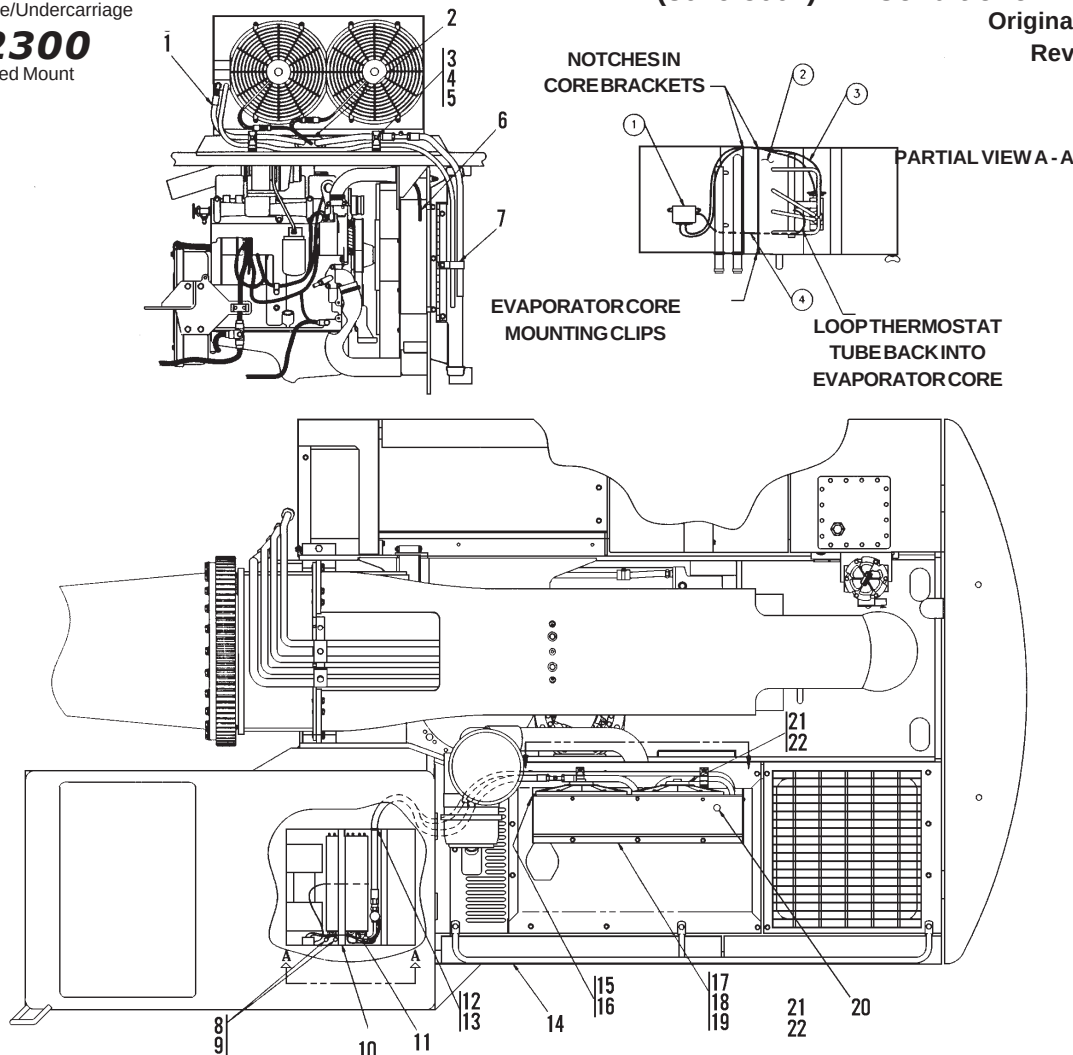
GRADALL
HYDRAULIC EXCAVATOR
Upperstructure/Undercarriage
XL2300
Wheeled Mount

OPTIONS

(8026-5007) Air Conditioner Installation

Original Issue 8-99

Revised 9-4-12



A/C EVAPORATOR KIT INSTALLATION (VIEW A - A ABOVE)

1. INSTALL THERMOSTAT SWITCH TO SIDE WITH SUPPLIED MOUNTING HARDWARE.
2. INSTALL EVAPORATOR CORE IN CLIPS WITH EXPANSION VALVE TOWARD OUTSIDE OF MACHINE.
3. ROUTE THERMOSTAT SWITCH WIRES THROUGH NOTCHES ON TOP OF BOTH CORE BRACKETS.
4. PUSH THERMOSTAT TUBE THROUGH HEATER CORE AND LOOP THROUGH EVAPORATOR CORE. (DO NOT LAY TUBE ON BOTTOM OF EITHER CORE).

Item	Part No.	Qty.	Description Of Part
	8026-5007	1	AIR CONDITIONER INSTALLATION, (includes all items)
1	8026-3034	1	HOSE KIT
2	9020-6194	10"	TRIM-LOK
3	8366-3119	2	CLAMP SET
4	8820-1023	2	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5
5	7713-3137	2	COVER PLATE
6	8026-3038	1	AIR CONDITIONER HARNESS
7	8594-1018	1	SUPPORT CLAMP
8		20"	HOSE, 3/8
9	8348-3497	2	HOSE CLAMP
10		Ref	HEATER ASSY, (see page UP3-7 for details)
*11		1	AIR CONDITIONER EVAPORATOR KIT, (see page 8096-3089 for details)

Item	Part No.	Qty.	Description Of Part
12	8656-1279	1	GROMMET
13	8696-1044	1	GROMMET
14	8096-3221	1	DECAL
15	8096-1337	1	CONDENSER LID
16	9002-7319	18	HEX WASHER HD CAPSCREW, 1/4-20X1
17	8096-6064	1	CONDENSER BOX WELDMENT
18	7714-3003	6	WHIZ-LOK SCREW, 5/16-18X1-1/4
19	7714-3006	6	WHIZ-LOK NUT, 5/16-18
20	8096-3026	1	PLUG, (plastic)
21	8096-3226	1	CONDENSER KIT
22	8832-1047	6	SELF-TAPPING SCREW
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

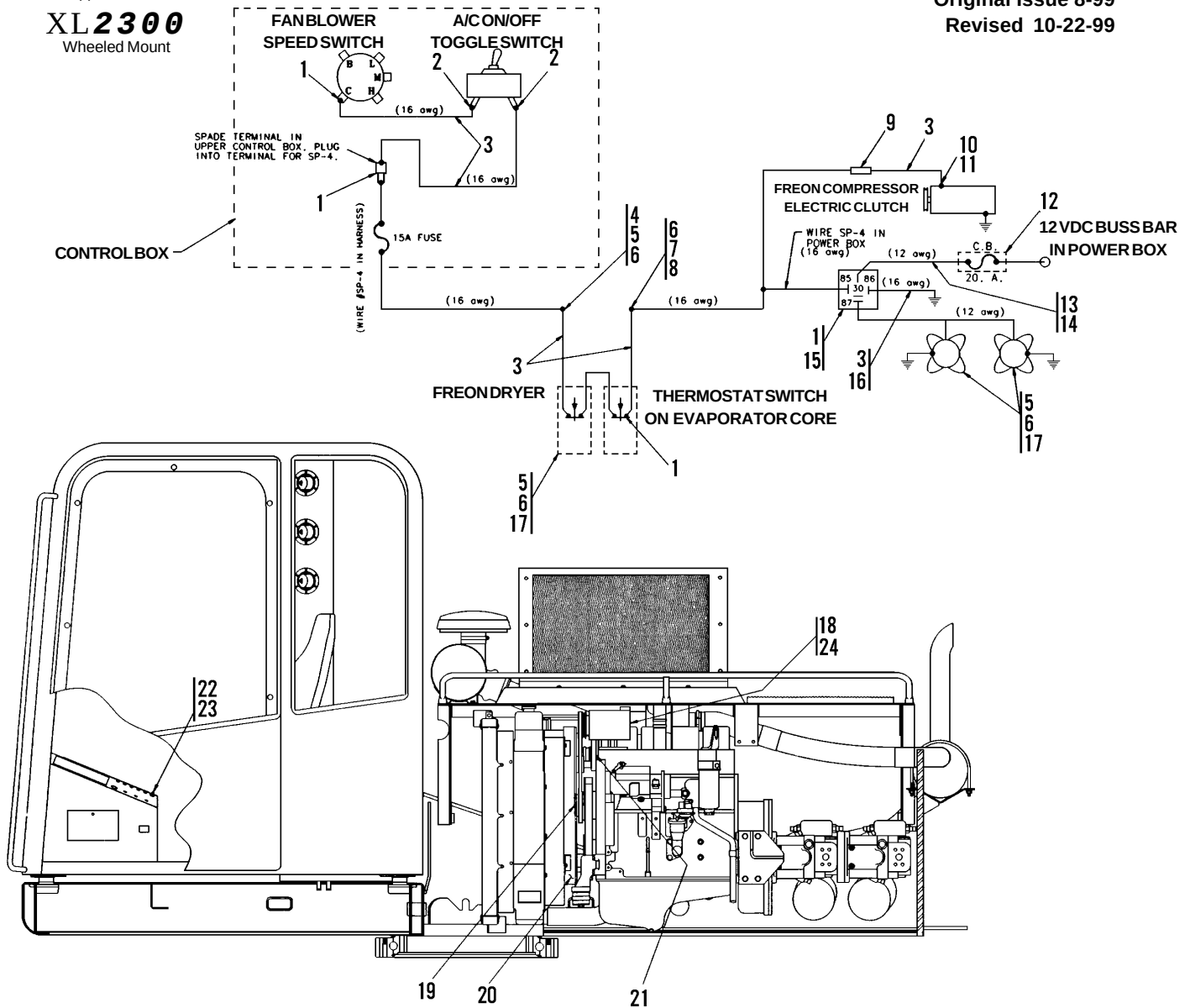
* - Removed part number and added note to item 11.

PM

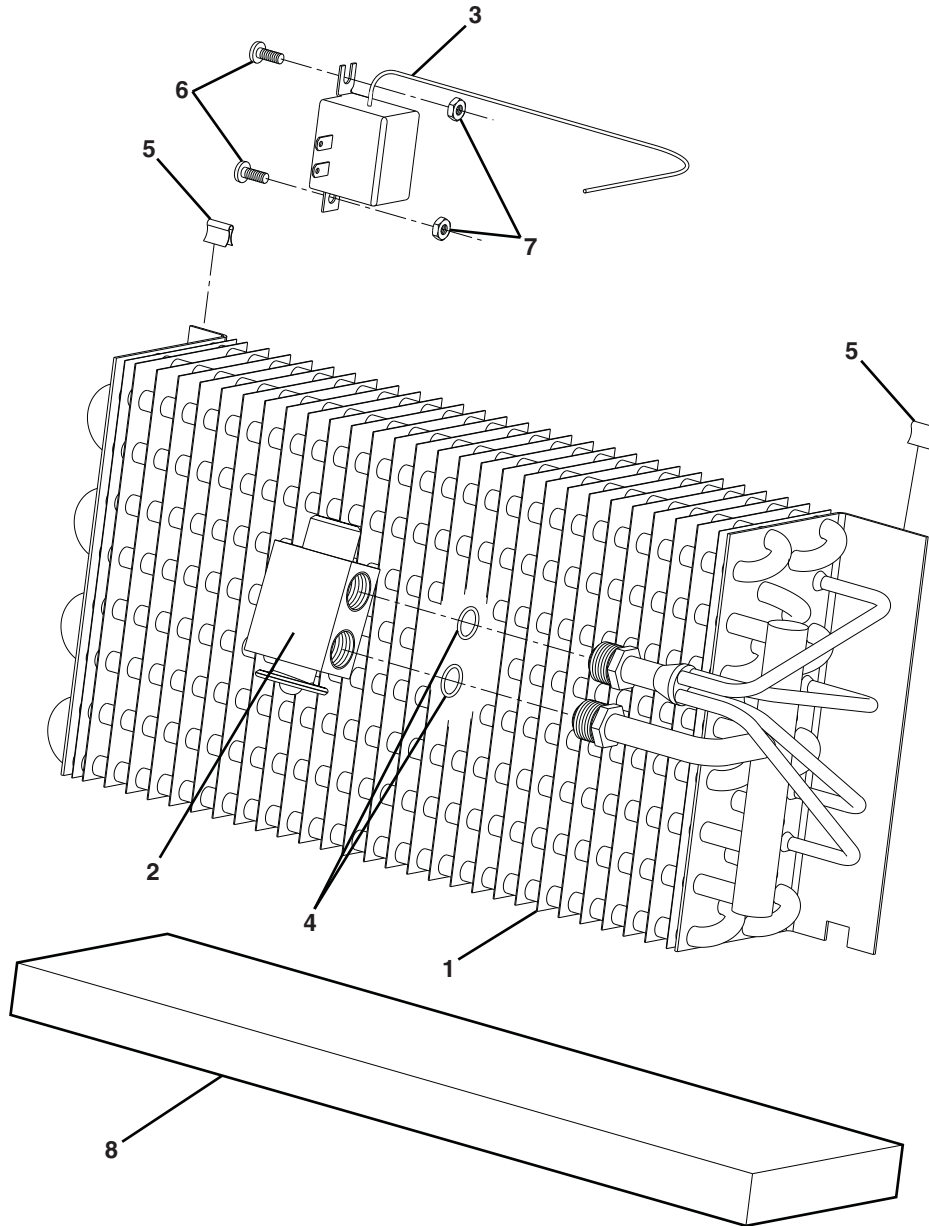
(8026-5007-1)

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

OPTIONS
(8026-5007) Air Conditioner Installation
Original Issue 8-99
Revised 10-22-99



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8026-5007	1	AIR CONDITIONER INSTALLATION, (includes all items)	13		10"	RED WIRE, (12 GA.)
1	7716-3102	8	FEMALE SPADE, 1/4	14	8698-3190	1	RING TERMINAL, #10
2	8348-3075	2	RING TERMINAL, #6	15	7738-3410	1	RELAY, (30 amp), (single pole-double throw)
3		158"	WIRE, BLACK, (16 ga.)	16	8698-3188	1	RING TERMINAL, #10
4	8096-3056	1	SHROUD CONNECTOR, (1 position)	17	8096-3058	3	SHROUD CONNECTOR, (2 position)
5	8096-3069	7	MALE PIN	18	8096-3202	1	COMPRESSOR KIT, (includes item 24)
6	8096-3066	8	CABLE SEAL	19	8395-3240	1	ACCESSORY DRIVE PULLEY
7	8096-3055	1	TOWER CONNECTOR, (1 position)	20	8097-6051	1	FAN GUARD
8	8096-3068	1	FEMALE PIN	21	8096-6041	1	IDLER ARM WELDMENT
9	8668-3480	1	BUTT CONNECTOR	22	7738-3467	1	TOGGLE SWITCH
10	8698-3193	1	MALE BULLET TERMINAL	23	7738-3470	1	SWITCH
11	7716-3105	1	FEMALE BULLET TERMINAL	*24	8096-3128	1	AIR CONDITIONER BELT
12	8698-3041	1	CIRCUIT BREAKER, 20 AMP				

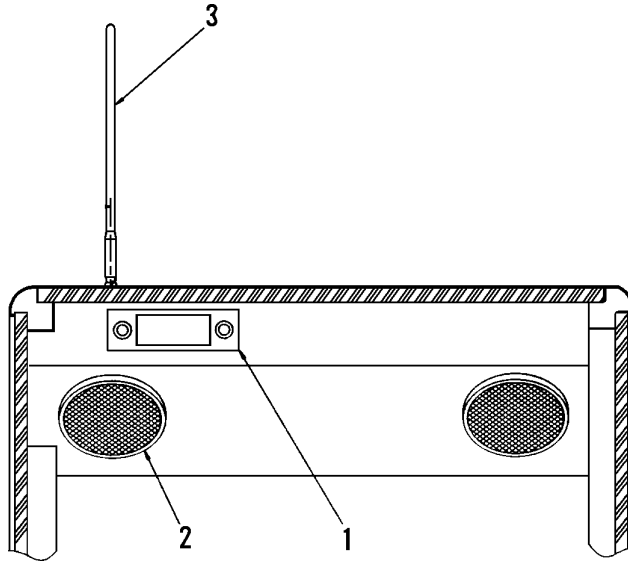


PAD4650

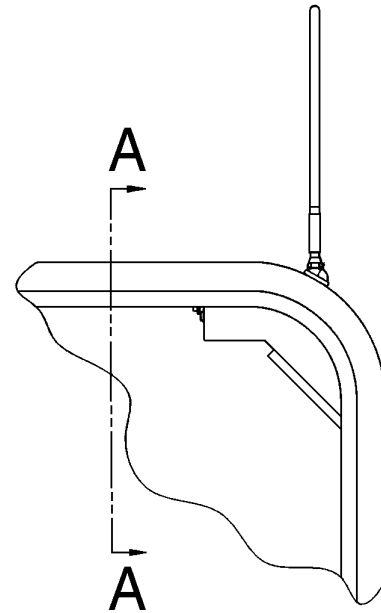
Item	Part No.	Qty.	Description Of Part
	8096-3089	1	AIR CONDITIONING EVAPORATOR KIT, (includes all items)
1	8096-3090	1	EVAPORATOR CORE
2	8096-3091	1	EXPANSION VALVE
3	8096-3092	1	THERMOSTAT SHUT-OFF SWITCH
4	8036-3103	2	O-RING
5	8096-3310	2	SPRING CLIP
6	8830-1193	2	ROUND HD MACHINE SCREW, #10-32X1/2, GR8
7	8850-1613	2	HEX NUT, #10-32
8	8036-3108	1	DRAIN PAD
9	8036-3109	1	CORK TAPE, (not illustrated)

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

OPTIONS
(8026-5010) AM/FM Cassette Stereo Installation
Original Issue 8-99



VIEW A - A



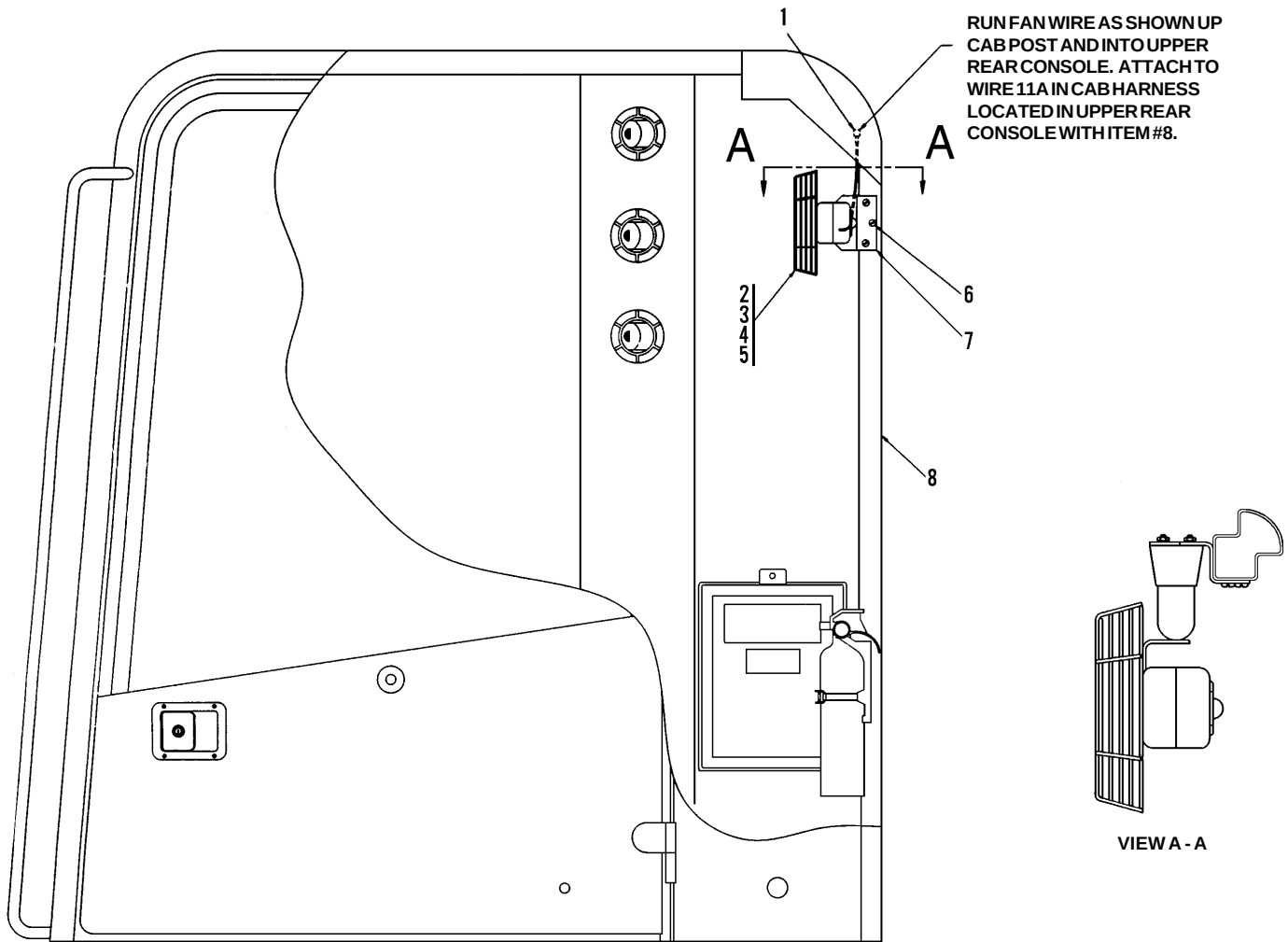
INSTALLATION INSTRUCTIONS:

1. REMOVE FABRIC FROM REAR CONSOLE FOR MOUNTING STEREO AND SPEAKERS.
2. INSTALL 3 EA. ITEM #5 TO REAR CONSOLE HARNESS WIRES: RADIO GROUND, (05A 06B), RADIO POWER, (07B 08A) & RADIO MEMORY, (04A)
3. INSTALL 3 EA. ITEM #4 TO RADIO WIRES AND CONNECT TO CORRESPONDING REAR HARNESS WIRES.
4. CONNECT SPEAKER WIRES PER RADIO INSTRUCTIONS.

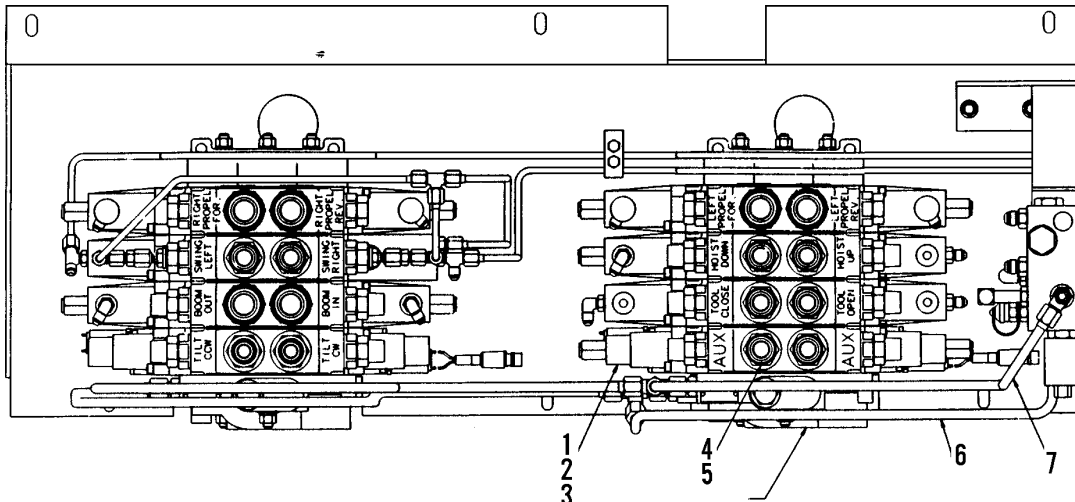
Item	Part No.	Qty.	Description Of Part
	8026-5010	1	RADIO INSTALLATION KIT, (includes all items)
1	8096-3248	1	STEREO
2	8026-3029	2	SPEAKER
3	8026-3030	1	ANTENNA
4	8698-3193	3	MALE BULLET CONNECTOR
5	7716-3105	3	FEMALE BULLET CONNECTOR

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

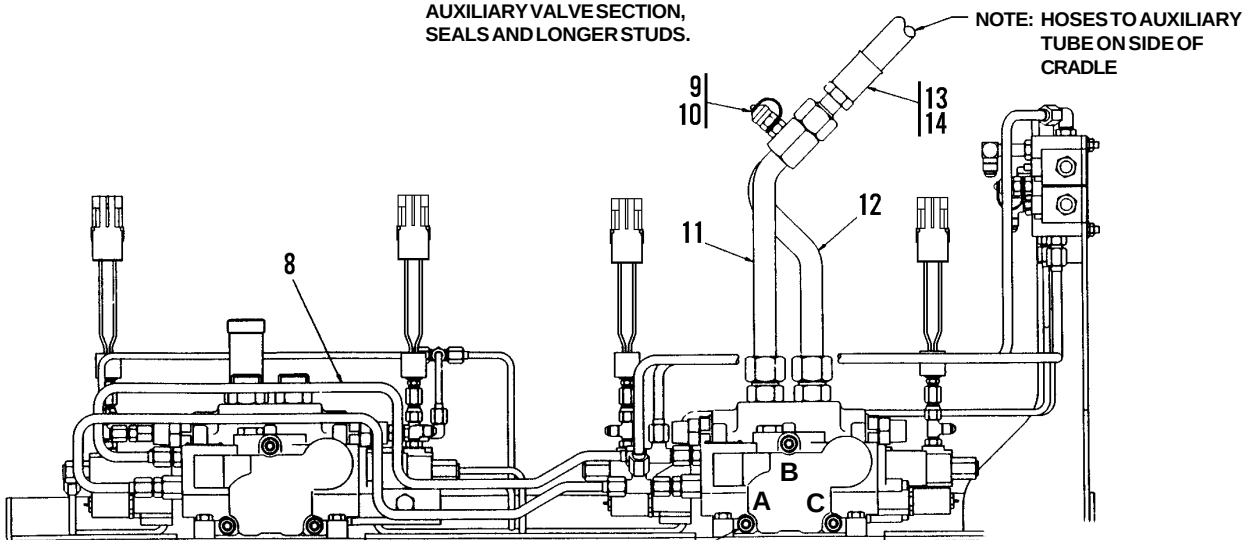
OPTIONS
(8026-5008) Auxiliary Fan Installation
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8026-5008	1	AUXILIARY FAN INSTALLATION, (includes all items)
1	7716-3239	1	MALE SPADE, 1/4
2	8855-1007	4	LOCKWASHER, #10
3	8850-1612	4	HEX NUT #10-24
4	8830-1090	4	ROUND HD MACHINE SCREW, #10-24X1/2
5	9020-0680	1	FAN
6	8832-1051	3	SELF-TAPPING SCREW, 1/4-20X1
7	8096-1143	1	FAN BRACKET
8		Ref	CAB ASSY, (see page UP3-1 for details)



NOTE: REMOVE END COVER FROM STANDARD VALVE ASSEMBLY, DISCARD STUDS AND ADD AUXILIARY VALVE SECTION, SEALS AND LONGER STUDS.

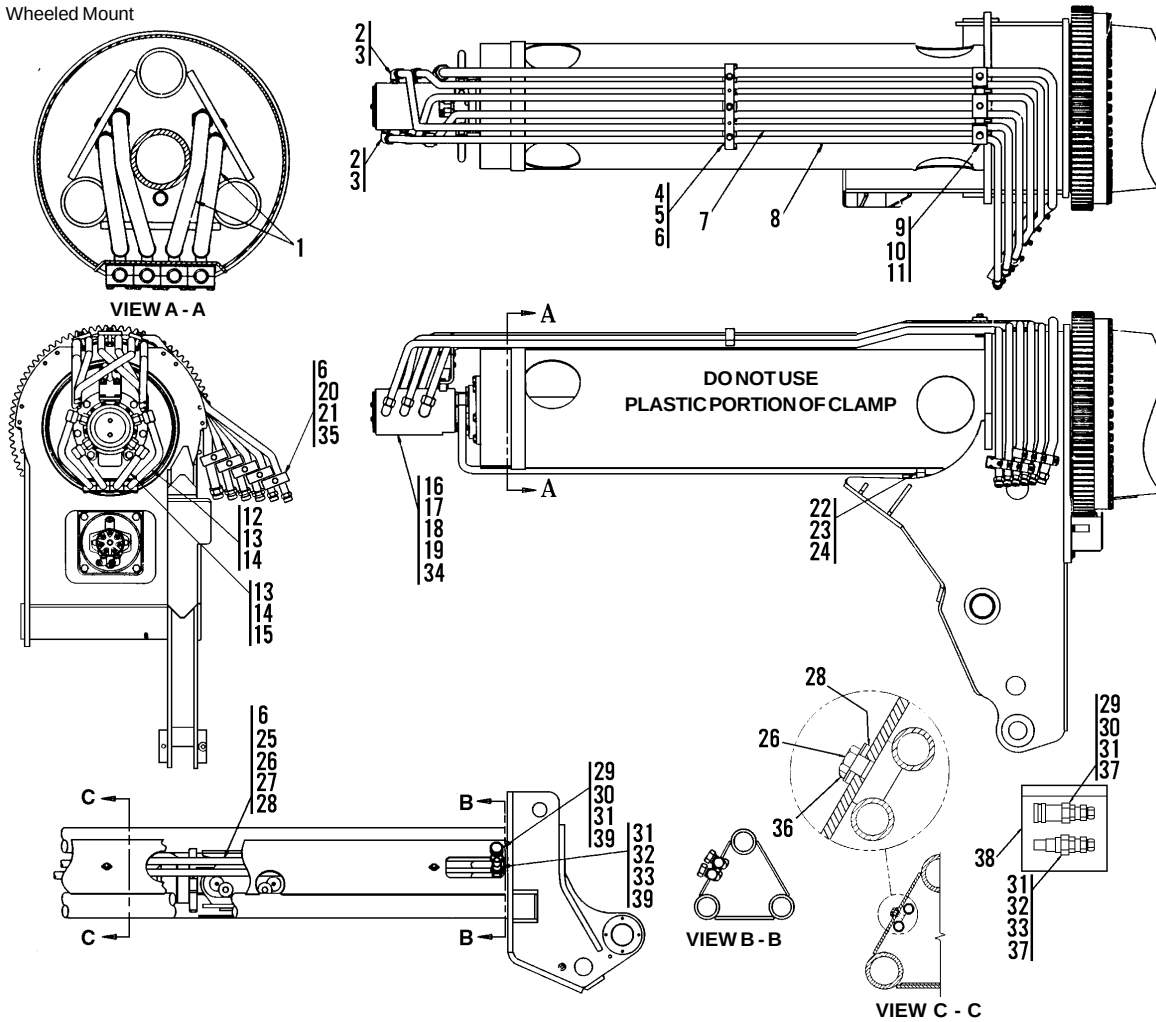


Item	Part No.	Qty.	Description Of Part
1	8023-5003	1	AUXILIARY HYDRAULIC FIELD CONVERSION, (includes all items on pages 8023-5003-1 & 8023-5003-2)
		Ref	AUXILIARY VALVE SECTION ASSY, (see page UP4-21 for details)
2	8023-3079	1	SEAL & STUD KIT
3	8023-3080	1	FACE SEAL KIT
4	8866-2304	2	CONNECTOR, (includes item 5)
5	8859-1207	2	O-RING
6	8023-3058	1	TUBE ASSY
7	8023-3059	1	TUBE ASSY
8	8023-3060	1	TUBE ASSY
9	7713-3089	2	MINI-CHECK COUPLING, (includes item 10)
10	8376-3056	2	VITON O-RING, (lubricate lightly)
11	8023-3030	1	TUBE ASSY
12	8023-3029	1	TUBE ASSY
13	8471-8719	2	HOSE ASSY
14	8859-1508	2	O-RING

NOTE: TORQUE END COVER NUTS AS FOLLOWS; TORQUE A, B THEN C TO 20-25 FT. LBS. - REPEAT SEQUENCE BRINGING FINAL TORQUE TO 45-50 FT. LBS.

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

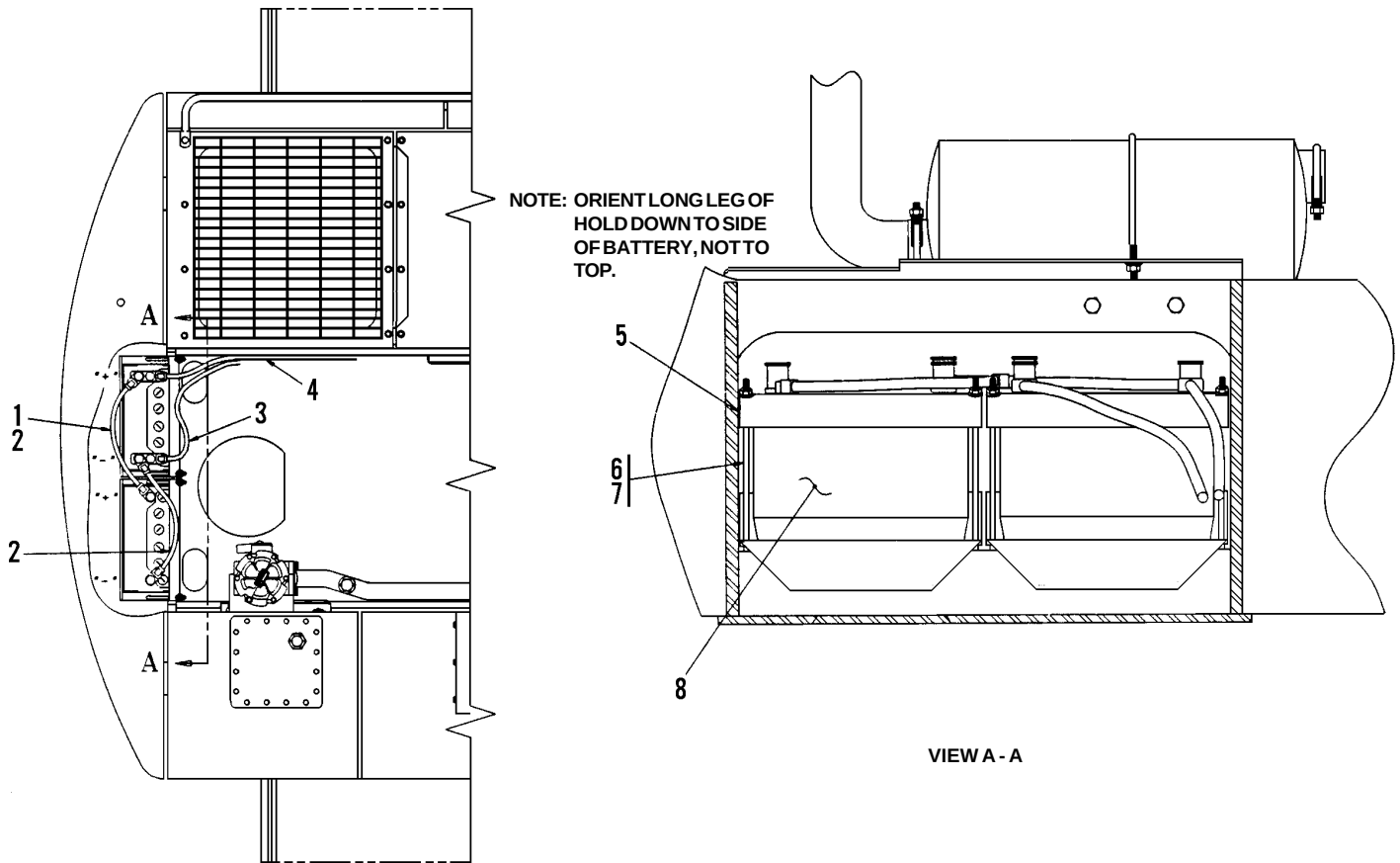
OPTIONS
(8023-5003) Auxiliary Hydraulic Valve Field Conversion
Original Issue 8-99



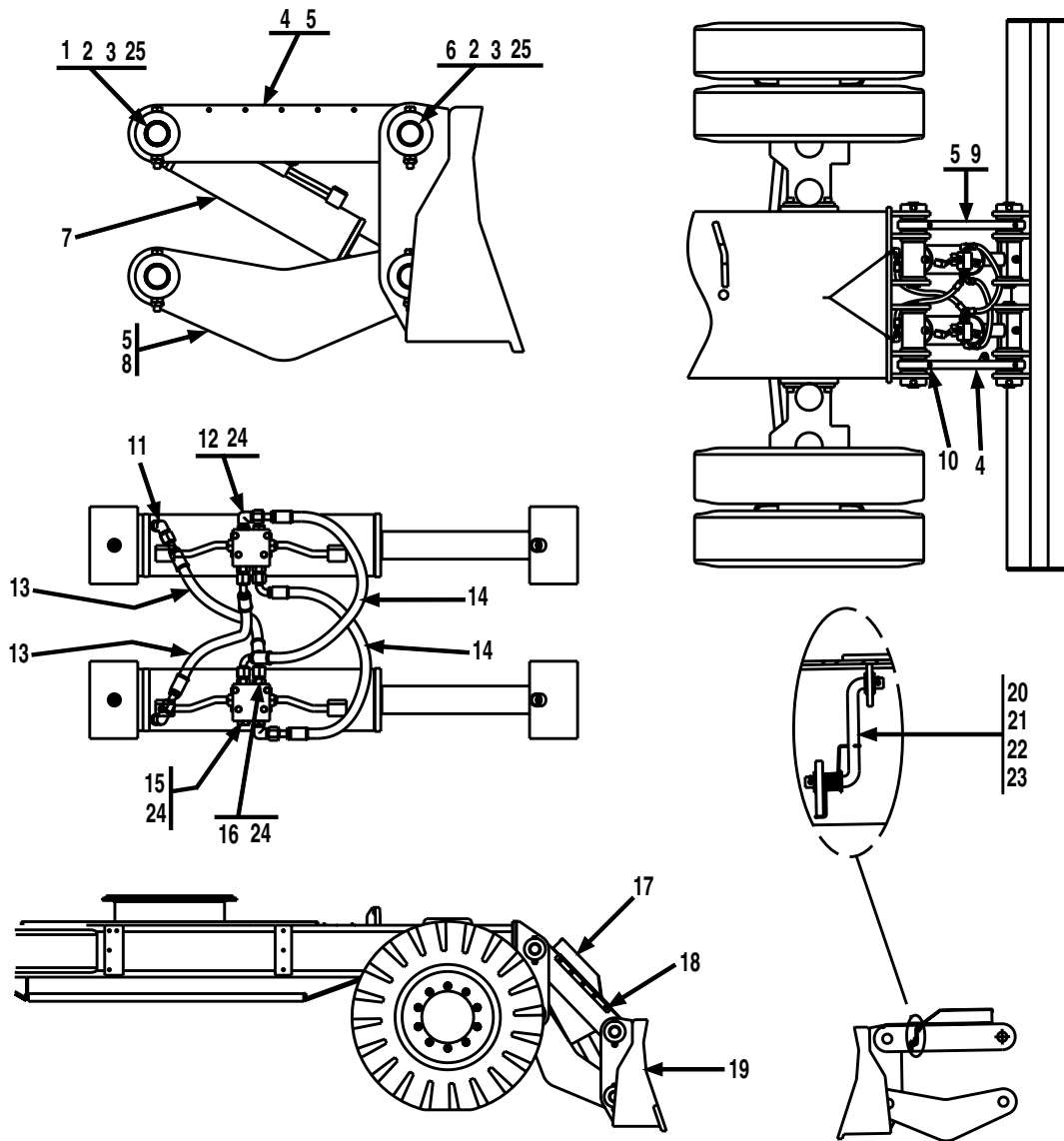
Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8023-5003	1	AUXILIARY HYDRAULIC FIELD CONVERSION, (includes all items on pages 8023-5003-1 & 8023-5003-2)	20	8022-1276	5	CLAMP
1	8471-8980	2	HOSE ASSY	21	8821-1073	2	SOCKET HD CAPSCREW, 3/8-16X1-1/2, GR8, (lubricate & torque to 40-45 ft. lbs.)
2	8866-2335	2	ELBOW, 90 DEGREES, (includes item 3)	22	7713-3052	2	COVER PLATE
3	8859-1206	4	O-RING	23	7713-3073	2	TUBE CLAMP SET
4	8022-1258	1	CLAMP PLATE	24	8820-1007	4	HEX HD CAPSCREW, 1/4-20X1-1/2, GR5
5	8852-1006	1	HEX LOCKNUT, 3/8-16	25	8022-3033	1	TUBE ASSY
6	8852-1206	2	HEX LOCKNUT, 3/8-16, 3/8	26	8820-1035	6	HEX HD CAPSCREW, 3/8-16X1, GR5
7	8022-3030	1	TUBE ASSY	27	8859-1507	2	O-RING
8	8022-3031	1	TUBE ASSY	28	8856-1004	6	FLAT WASHER, 3/8
9	8022-1116	1	TUBE CLAMP	29	8345-1128	1	FEMALE COUPLING
10	8820-1071	1	HEX HD CAPSCREW, 1/2-13X2-1/2, GR5	30	8362-3027	1	DUST PLUG
11	8855-1013	1	LOCKWASHER, 1/2	31	9116-3121	2	CONNECTOR, (swivel nut)
12	8022-3045	1	TUBE ASSY	32	8345-1129	1	MALE COUPLING
13	8866-2311	2	CONNECTOR, (includes item 3)	33	8362-3026	1	DUST CAP
14	8859-1508	2	O-RING	34	8859-1204	2	O-RING
15	8022-3044	1	TUBE ASSY	35	8022-1281	2	SPACER
16	8022-3065	1	TILT GLAND	36	8022-1276	6	KEEPER
17	8093-3066	1	O-RING	37	8866-1387	2	PLUG
18	9108-3106	1	O-RING	38	1440-3143	1	PLASTIC BAG
19	8866-2192	2	HEX SOCKET HD PLUG, (includes item 34)	39	8866-1367	2	CAP

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

OPTIONS
(8026-5005) Additional Battery Installation
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8026-5005	1	ADDITIONAL BATTERY INSTALLATION, (includes all items except items 3 & 4)
1	8027-3036	1	POSITIVE BATTERY CABLE
2	8027-3035	1	NEGATIVE BATTERY CABLE
3	8027-3024	1	NEGATIVE BATTERY CABLE
4	8027-3041	1	POSITIVE BATTERY CABLE
5	8027-1033	1	BATTERY HOLD-DOWN
6	7714-3006	2	WHIZ-LOK NUT, 5/16-18
7	9020-0382	2	HOLD-DOWN STUD
8		1	BATTERY, (purchase locally)
9	8027-1032	1	BATTERY SHELF



Item	Part No.	Qty.	Description Of Part
	8020-5015	1	BLADE ATTACHMENT ASSEMBLY, (includes all items)
1	8021-4123	4	BLADE CYLINDER PIVOT PIN
2	8820-1325	8	HEX HD CAPSCREW, (5/8-11X5 1/2)
3	8850-1110	16	HEX NUT 5/8-11
4	8021-4127	1	UPPER BLADE ARM, (right)
5	8021-3109	8	BUSHING
6	8021-4124	4	BLADE PIVOT PIN
7	8000-5129	2	BLADE CYLINDER
8	8021-4126	1	LOWER BLADE ARM
9	8021-4340	1	UPPER BLADE ARM, (left)
10	8021-3111	8	LUBE FITTING, STRAIGHT
11	8866-2514	2	ELBOW, 90 DEGREES, (includes o-ring)

Item	Part No.	Qty.	Description Of Part
12	8866-2330	2	ELBOW, 90 DEGREES, (includes item 24)
13	8471-9569	2	HOSE ASSY
14	8471-9570	2	HOSE ASSY
15	8866-2175	2	HEX HD PLUG, (includes item 24)
16	8866-2302	4	CONNECTOR, (includes item 24)
17	8020-6005	1	BLADE CYLINDER COVER
18	9136-3018	5	WHIZ-LOK SWREW, 5/16-18X1
19	8021-4125	1	BLADE WELDMENT
20	8027-3070	1	Z-BAR
21	8027-3047	1	TORSION SPRING
22	8856-1003	2	FLAT WASHER, 5/16
23	8863-1309	2	COTTER PIN, 3/32X3/4
24	8859-1205	8	O-RING
25	8021-1118	32	SHIM

GRADALL

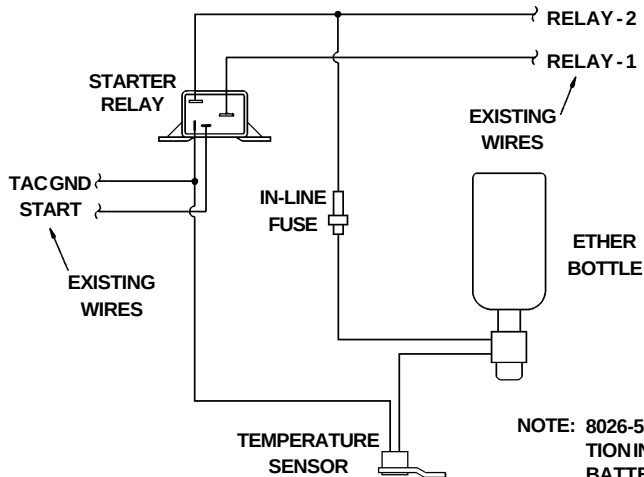
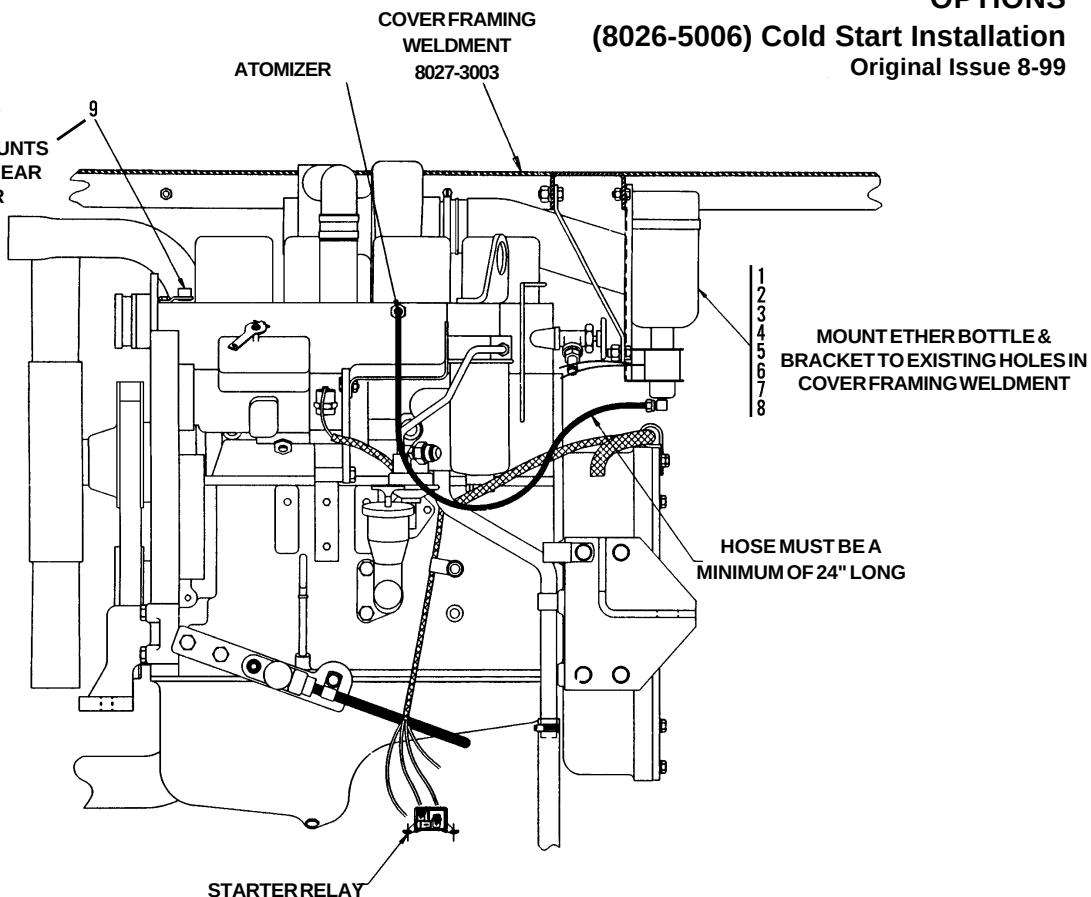
HYDRAULIC EXCAVATOR

Upperstructure

XL2300

Wheeled Mount

TEMP. SENSOR MOUNTS
ON TOP OF HEAD NEAR
TEMP. SENDER

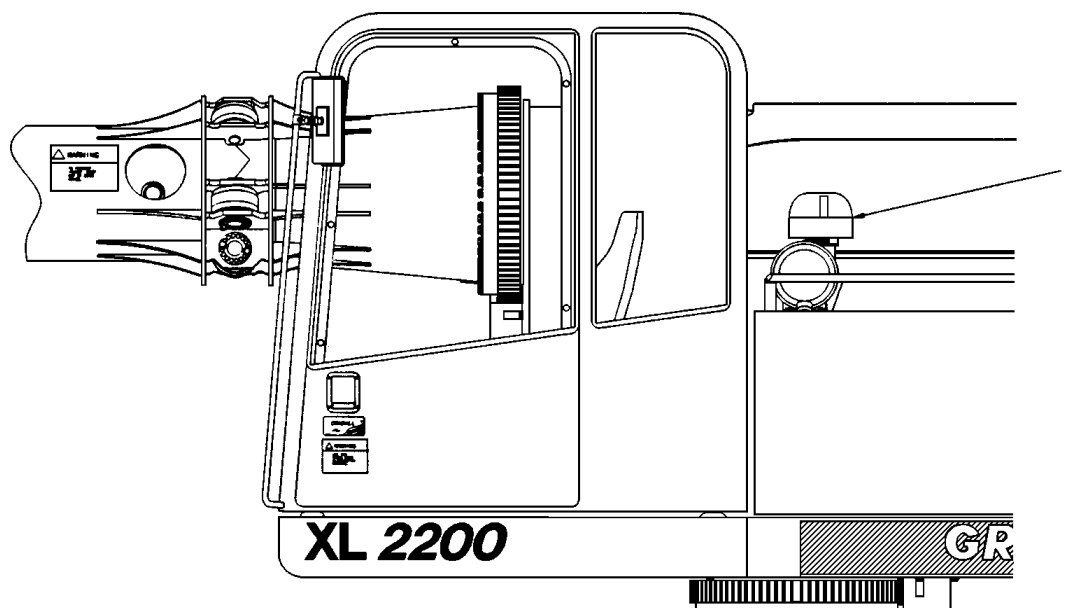


NOTE: 8026-5006 COLD START INSTALLATION INCLUDES AN ADDITIONAL BATTERY; SEE PAGE 8026-5005 IN THIS SECTION FOR COMPONENTS.

Item	Part No.	Qty.	Description Of Part
	8026-5006	1	ENGINE COLD START INSTALLATION, (includes all items)
1	8395-3143	1	ETHER START
2	8026-1012	1	BRACKET
3	8820-1050	4	HEX HD CAPSCREW, 7/16-14X1, GR5
4	8820-1018	2	HEX HD CAPSCREW, 5/16-18X3/4, GR5
5	8855-1012	4	LOCKWASHER, M 7/16
6	8855-1010	2	LOCKWASHER, 5/16
7	8850-1007	4	HEX NUT, 7/16-14
8	8850-1005	2	HEX NUT, 5/16-18
9	8319-1032	1	HEX HD CAPSCREW, M12X1.75X35

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL 2300
Wheeled Mount

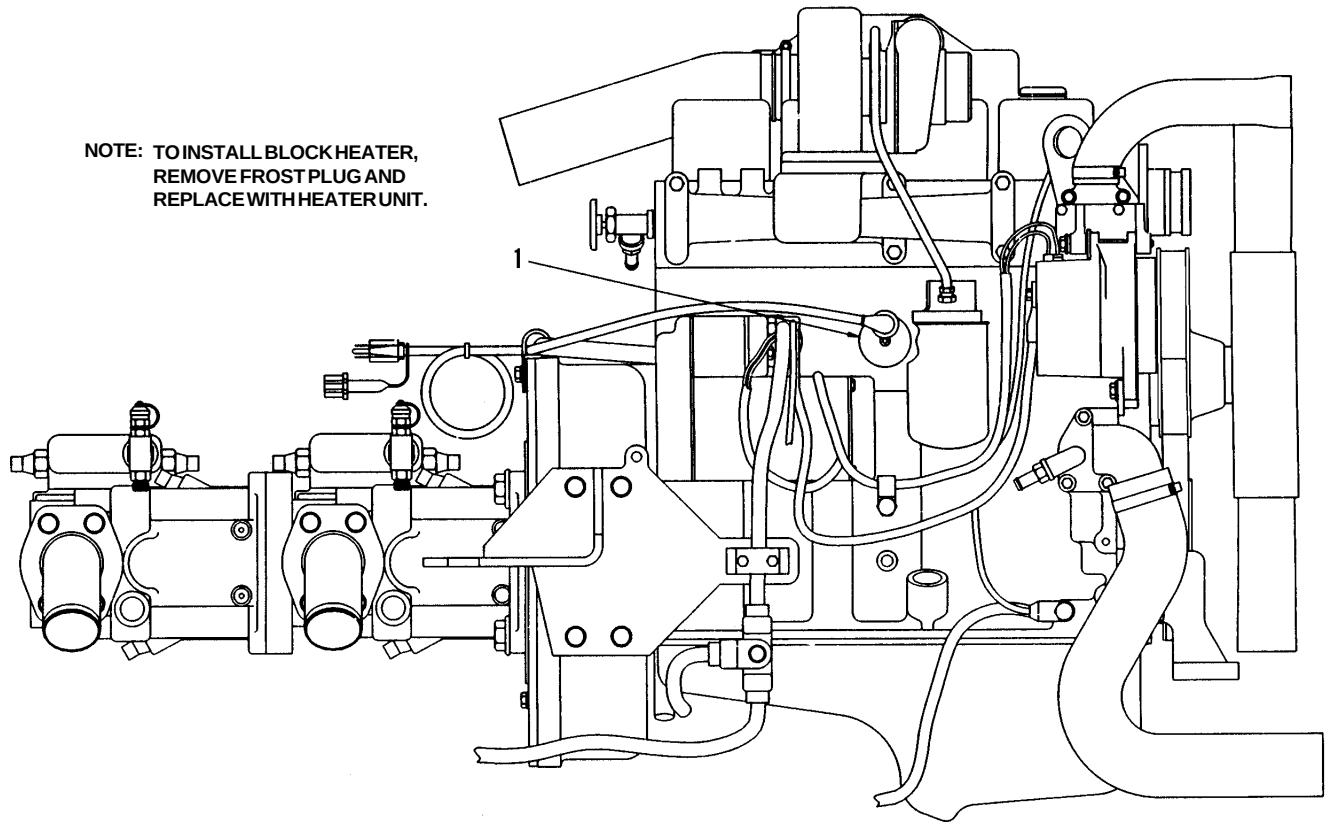
OPTIONS
(8026-5016) Engine Air Precleaner Installation
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
1	8026-5016	1	ENGINE PRECLEANER INSTALLATION, (includes all items)
	8026-3055	1	PRECLEANER ASSY

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

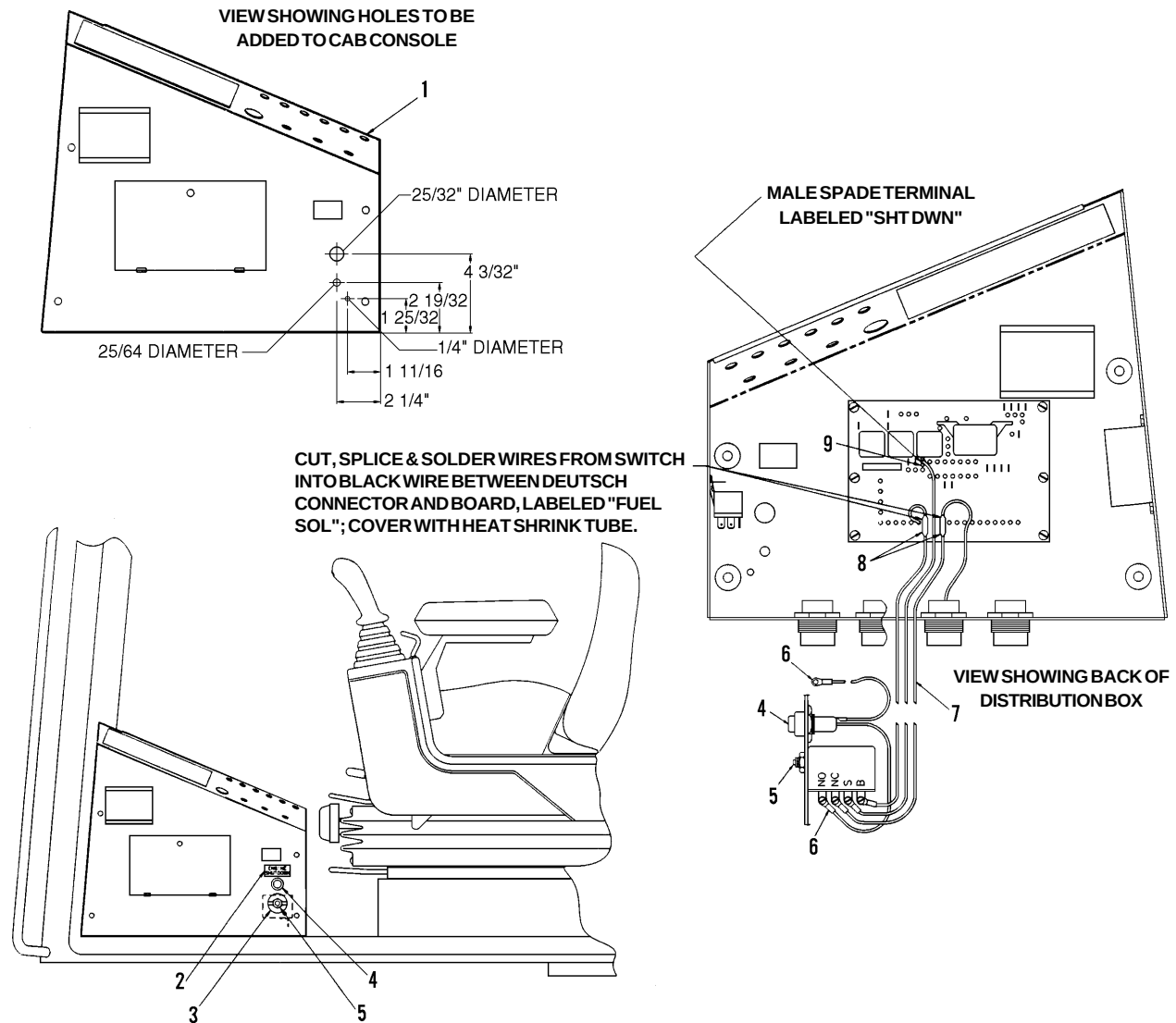
OPTIONS
(8026-5013) Engine Block Heater Installation
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8026-5013	1	ENGINE BLOCK HEATER INSTALLATION, (includes all items)
1	9104-3353	1	ENGINE BLOCK HEATER

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

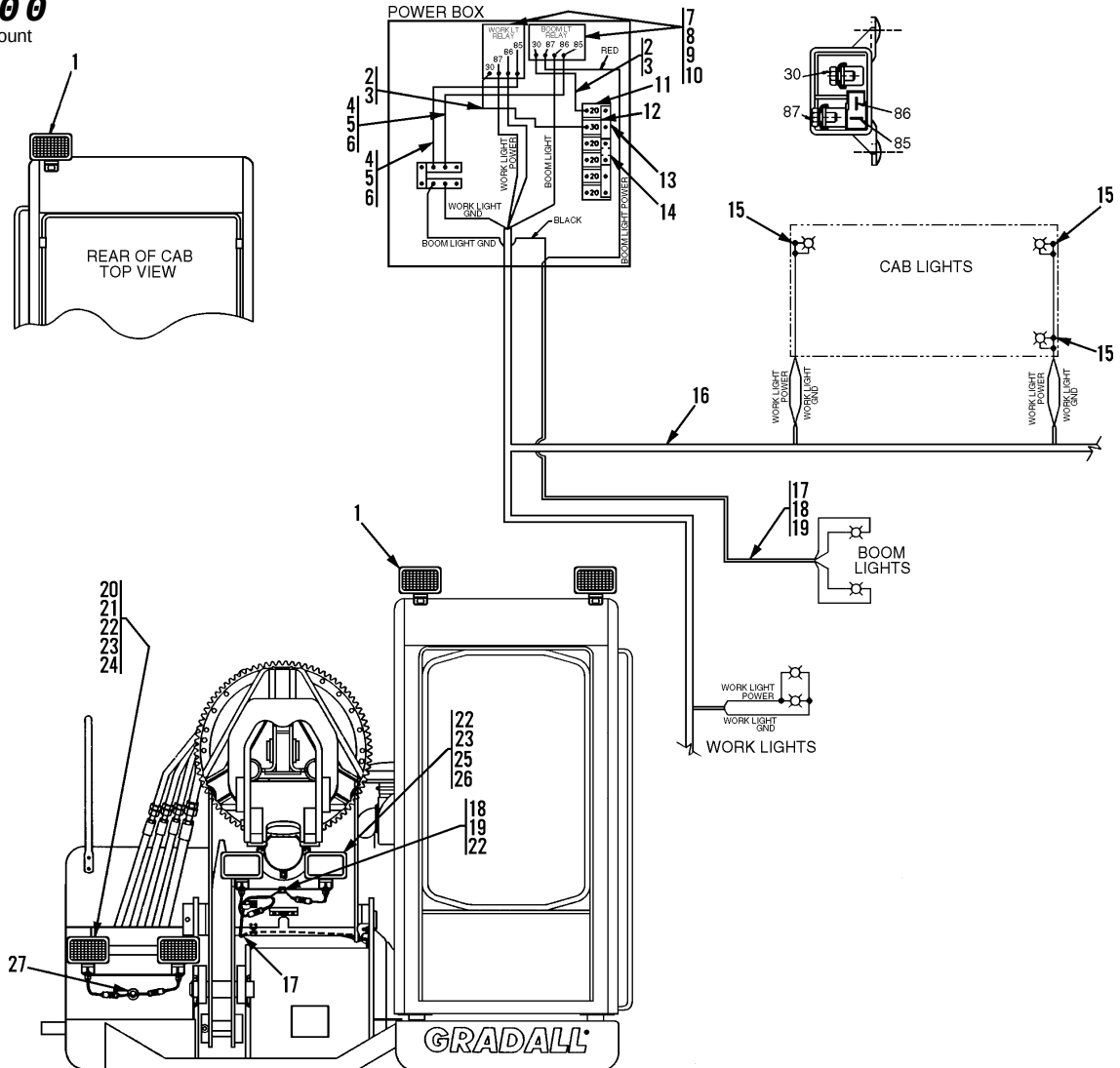
OPTIONS
(8026-5012) Engine Shutdown Installation
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
1	8026-5012	1	ENGINE SHUTDOWN INSTALLATION, (includes all items)
		Ref	CAB CONSOLE ASSY, (see page UP3-3 for details)
2	8367-3224	1	DECAL
3		1	INSTRUCTION PLATE, (furnished with switch)
4	7734-3009	1	INDICATOR
5	7738-3432	1	TIME DELAY SWITCH
6	8698-3187	5	TERMINAL RING, #10
7		60"	BLACK WIRE, (16 GA.)
8		2"	HEAT SHRINK TUBING
9	7716-3102	1	FEMALE SPADE
NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.			

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

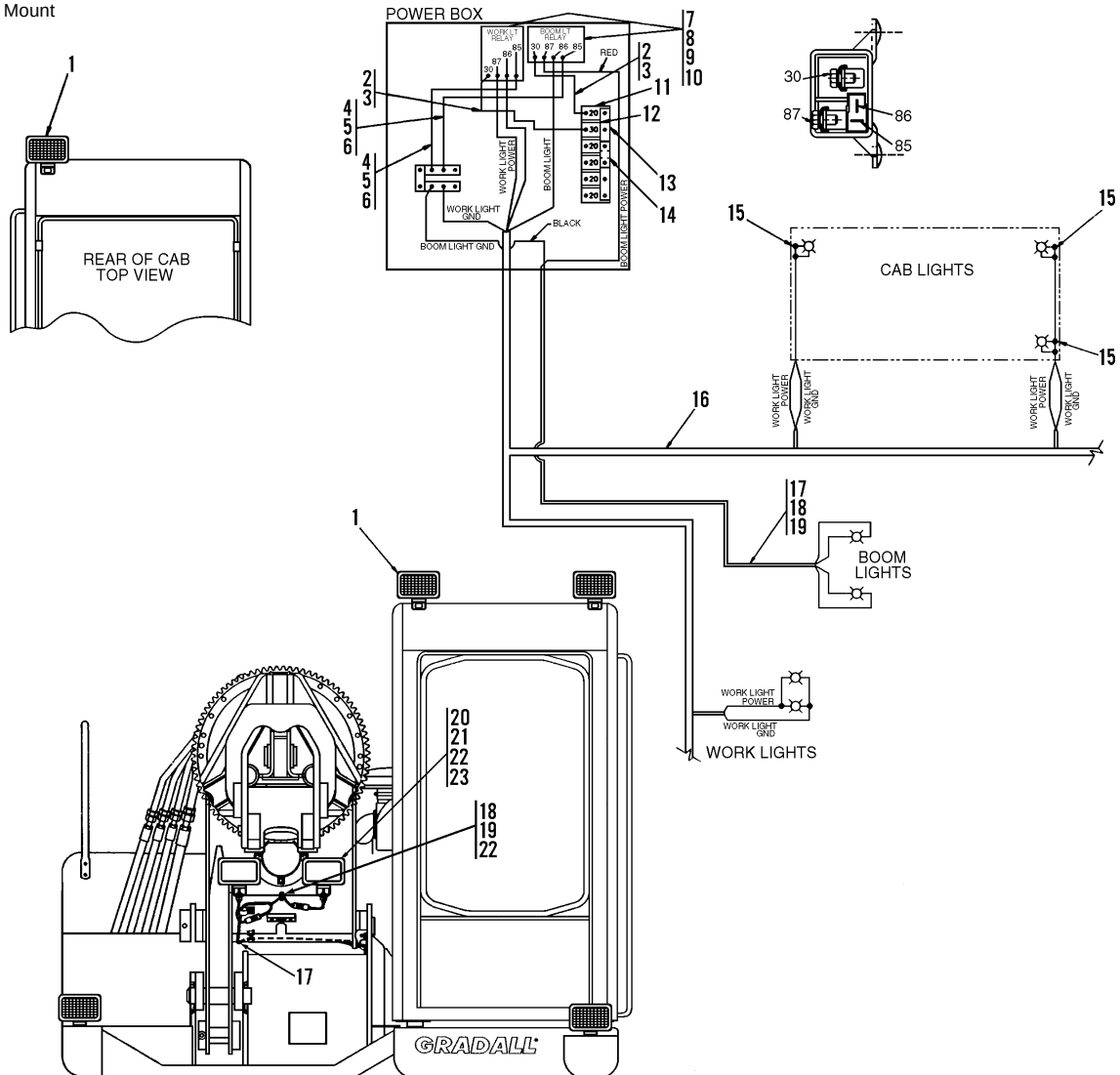
OPTIONS
(8026-5003) Floodlight Installation
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8026-5003	1	FLOODLIGHT INSTALLATION, (includes all items except item 16)	13	8698-1178	1	BUSS BAR, (3 position)
1	8096-3050	3	FLOODLIGHT	14	8698-1272	1	BUSS BAR, (2 position)
2		14"	RED WIRE, (10 GA.)	15	8698-3193	6	BULLET TERMINAL
3	8698-3190	4	RING TERMINAL, #10	16	8026-3004	1	UPPER HARNESS
4		22"	BLACK WIRE, (16 GA.)	17	8024-3014	1	BOOM LIGHTS HARNESS
5	7716-3102	2	FEMALE SPADE TERMINAL, 1/4	18	7714-3015	5	WHIZ-LOK NUT, 3/8-16
6	8698-3188	2	RING TERMINAL, #10	19	8662-1230	5	SUPPORT CLAMP
7	7738-3377	2	RELAY, (single pole - double throw)	20	8096-5045	2	FLOODLIGHT ASSY
8	8830-1092	4	ROUND HD MACHINE SCREW, #10-24X5/8	21	8026-1010	1	LIGHT BRACKET
9	8850-1612	4	HEX NUT, #10-24	22	8820-1033	4	HEX HD CAPSCREW, 3/8-16X3/4, GR5
10	8855-1007	4	LOCKWASHER, #10	23	8855-1011	4	LOCKWASHER, 3/8
11	8698-3041	1	CIRCUIT BREAKER, 20 AMP	24	8850-1006	2	HEX NUT, 3/8-16
12	8688-3072	1	CIRCUIT BREAKER, 30 AMP	25	8096-5011	2	BOOM LIGHT ASSY
				26	8026-1011	1	LIGHT BRACKET
				27	8656-1279	1	GROMMET

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL 2300
Crawler Mount

OPTIONS
(8026-5039) Floodlight Installation
Original Issue 1-01



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8026-5039	1	FLOODLIGHT INSTALLATION, (includes all items except item 16)	12	8688-3072	1	CIRCUIT BREAKER, 30 AMP
1	8096-3050	3	FLOODLIGHT	13	8698-1178	1	BUSS BAR, (3 position)
2		14"	RED WIRE, (10 GA.)	14	8698-1272	1	BUSS BAR, (2 position)
3	8698-3190	4	RING TERMINAL, #10	15	8698-3193	6	BULLET TERMINAL
4		22"	BLACK WIRE, (16 GA.)	16	8026-3004	1	UPPER HARNESS
5	7716-3102	2	FEMALE SPADE TERMINAL, 1/4	17	8024-3014	1	BOOM LIGHTS HARNESS
6	8698-3188	2	RING TERMINAL, #10	18	7714-3015	6	WHIZ-LOK NUT, 3/8-16
7	7738-3377	2	RELAY, (single pole - double throw)	19	8662-1230	6	SUPPORT CLAMP
8	8830-1092	4	ROUND HD MACHINE SCREW, #10-24X5/8	20	8096-5011	2	BOOM LIGHT ASSY
9	8850-1612	4	HEX NUT, #10-24	21	8026-1011	1	LIGHT BRACKET
10	8855-1007	4	LOCKWASHER, #10	22	8820-1033	3	HEX HD CAPSCREW, 3/8-16X3/4, GR5
11	8698-3041	1	CIRCUIT BREAKER, 20 AMP	23	8855-1011	2	LOCKWASHER, 3/8

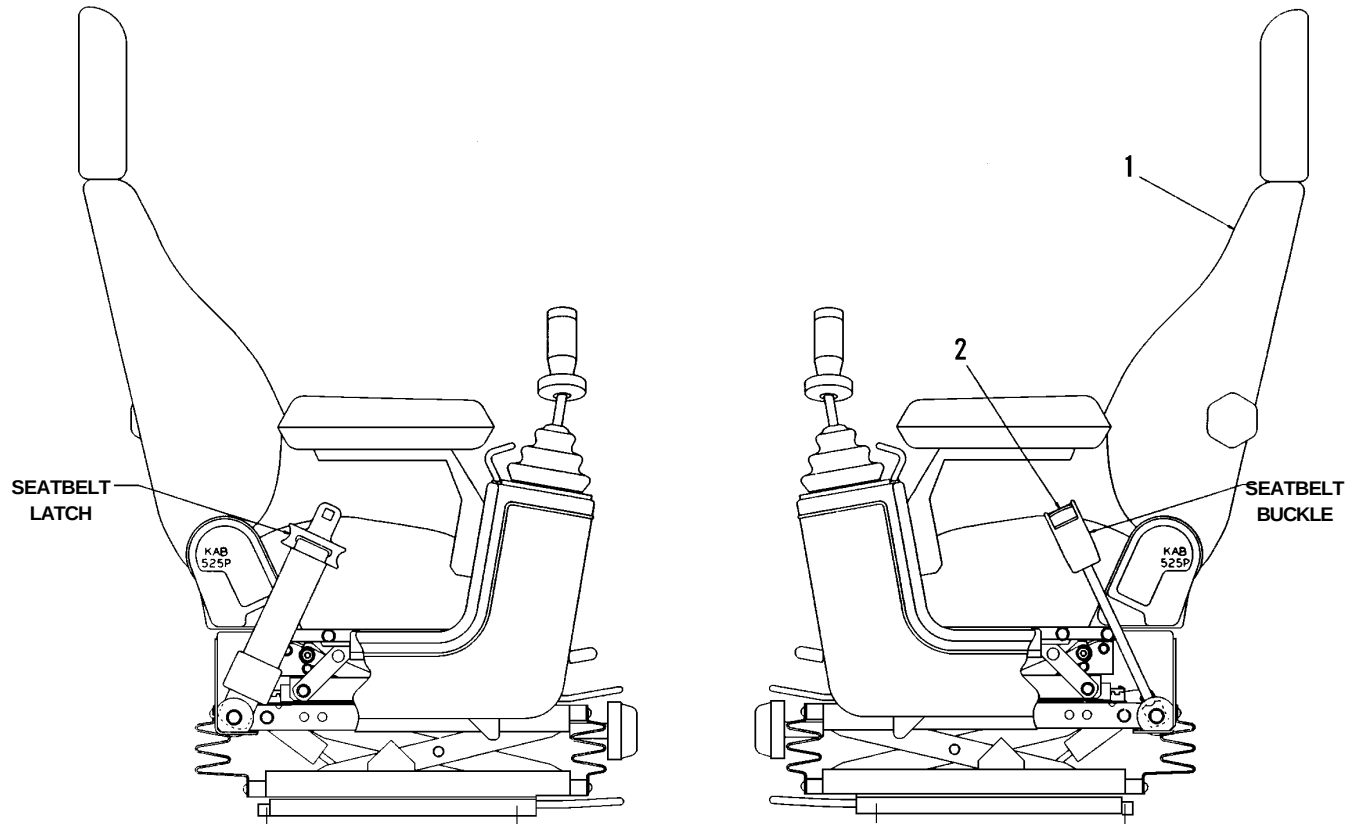
GRADALL[®]
HYDRAULIC EXCAVATOR
Upperstructure
XL 2300
Wheeled Mount

OPTIONS
(8022-5002) Four-line Hose Trough Installation
Original Issue 8-99

**INFORMATION FOR THIS PAGE
WAS UNAVAILABLE AT THE TIME
OF PRELIMINARY PUBLICATION.**

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

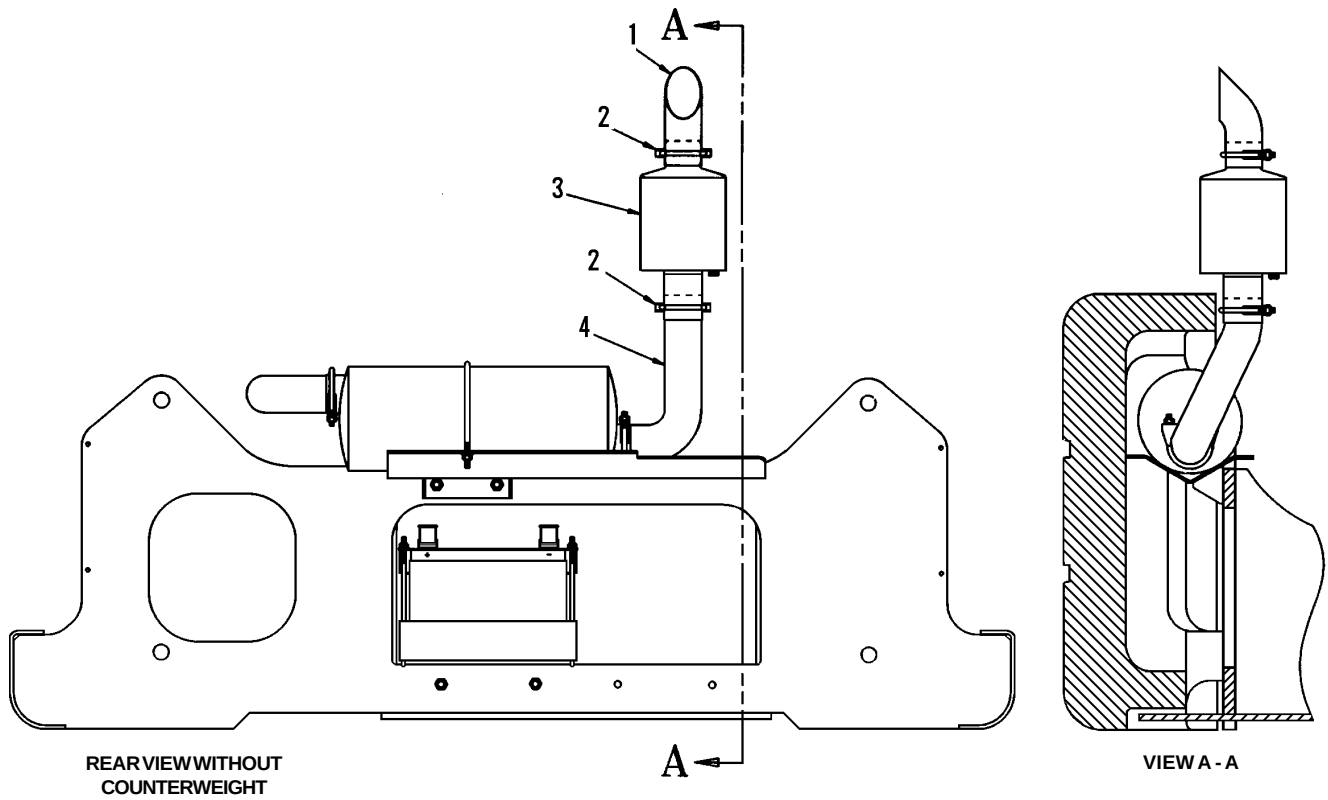
OPTIONS
(8026-5018) Seat Belt Installation
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
1	8026-5018	1	SEAT BELT INSTALLATION, (includes all items)
		1	SEAT ASSY, (see page UP3-4 for details)
2	8026-3064	1	SEAT BELT KIT

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

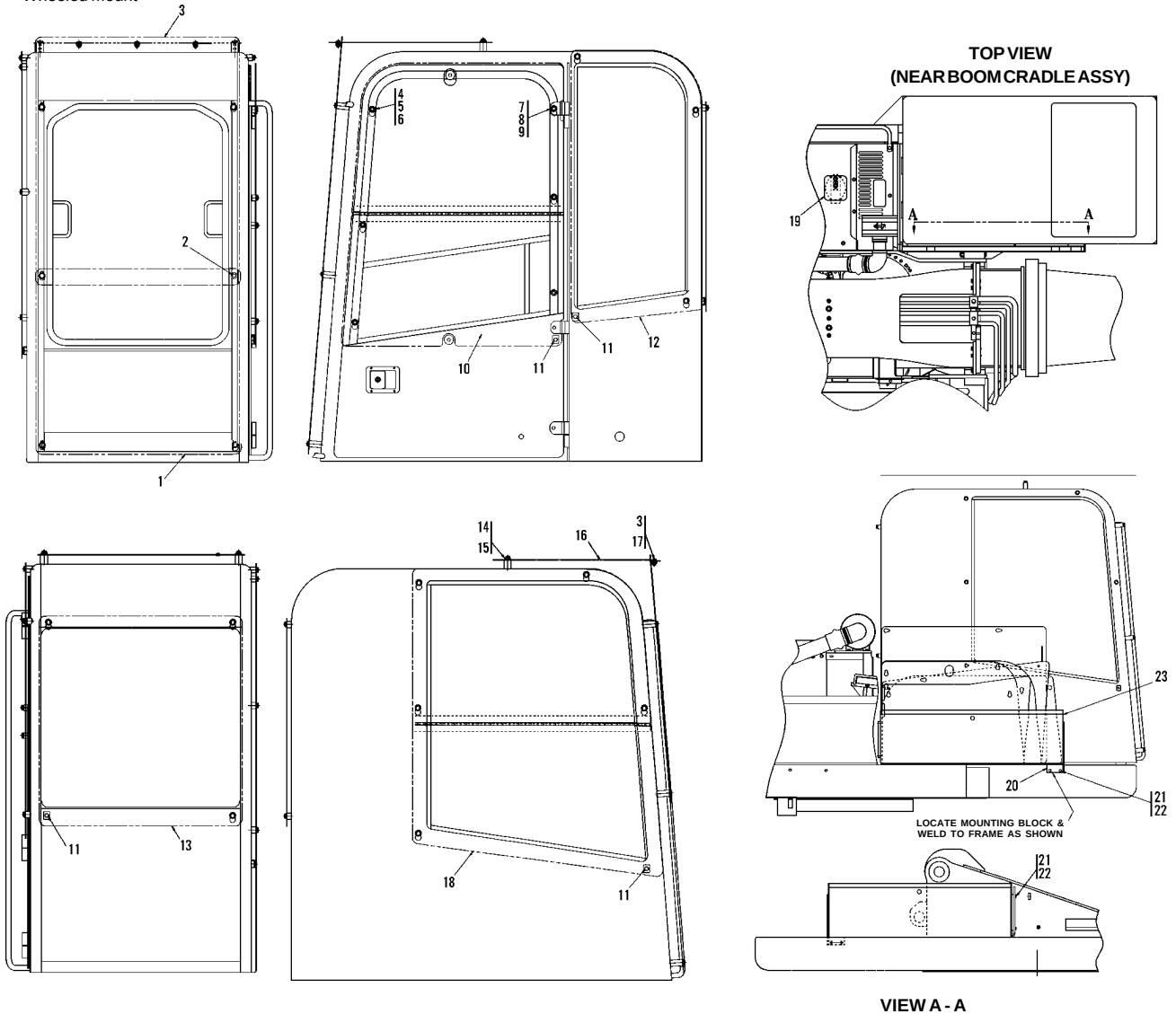
OPTIONS
(8027-5007) Spark Arrestor Installation
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part
	8027-5007	1	SPARK ARRESTOR INSTALLATION, (includes all items)
1	8027-1139	1	EXHAUST PIPE
2	2492-1332	2	MUFFLER CLAMP
3	8027-3060	1	SPARK ARRESTOR
4	8027-1138	1	EXHAUST PIPE

GRADALL
HYDRAULIC EXCAVATOR
Upperstructure
XL2300
Wheeled Mount

OPTIONS
(8026-5014) Vandal Covers Installation
Original Issue 8-99



Item	Part No.	Qty.	Description Of Part	Item	Part No.	Qty.	Description Of Part
	8026-5014	1	VANDAL COVER INSTALLATION, (includes all items)	12	8026-1028	1	SIDE COVER, L.H.
1	8026-1026	1	BOTTOM FRONT COVER	13	8026-1025	1	REAR COVER
2	8820-1033	4	HEX HD CAPSCREW, 3/8-16X3/4, GR5	14	8026-1032	2	ROOF POST
3	8026-1027	1	TOP FRONT COVER	15	8820-1041	2	HEX HD CAPSCREW, 3/8-16X2-1/2, GR5
4	8026-1031	4	DOOR POST	16	8026-1024	1	TOP COVER, (standard cab)
5	8820-1013	4	HEX HD CAPSCREW, 1/4-20X3, GR5		8026-1063	1	TOP COVER, (w/ cab lights)
6	8852-1204	4	HEX LOCKNUT, 1/4-20	17	8852-1206	3	HEX LOCKNUT, 3/8-16
7	8026-1033	1	HINGE POST	18	8026-6005	1	SIDE COVER, R.H.
8	8820-1028	1	HEX HD CAPSCREW, 5/16-18X3, GR5	19	8026-5017	1	RADIATOR COVER
9	8852-1205	1	HEX LOCKNUT, 5/16-18	20	8026-1046	1	MOUNTING BLOCK
10	8026-6004	1	DOOR GUIDE	21	8820-1035	4	HEX HD CAPSCREW, 3/8-16X1, GR5
11	8820-1031	4	HEX HD CAPSCREW, 3/8-16X1/2, GR5	22	8855-1011	4	LOCKWASHER, 3/8
				23	8026-6006	1	STORAGE BOX WELDMENT

GRADALL®

*Gradall Industries, Inc.
406 Mill Ave SW
New Philadelphia OH. 44663
USA*

*Phone: (330) 339-2211
Customer Support Toll Free: (800) 445-4752
Fax: (330) 339-3579*
