

Illustrated Parts Manual

Models D-SERIES

1100830-005

August 2001, 2001





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USING THIS BOOK

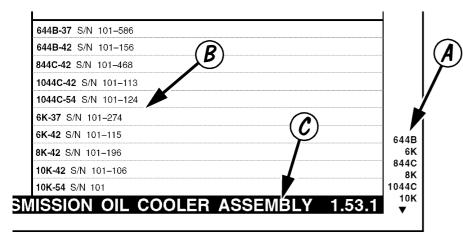


Figure 1

This parts book covers all models, but some pages may only be specific to a few of them. To help you identify the page you're looking for, model numbers are always listed in the lower, far right corner of each parts list page (*Figure 1, A*).

Specific model and serial number information (B) is located on the lower, right side of each parts list page, above the page title (C).

How to Find What You're Looking For

To start, you must have the model and serial numbers, but you don't need the whole serial number—just the last digits will do. If it's related to the engine, you may need the engine model also.

A "Section Quick Reference" can be found at the beginning of the book as well as a complete table of contents, and each section has its own table of contents. Find the section, then the subject and page concerning the part you're after. Go to the page and see if it lists your machine's model and serial number. If not, it can probably be found on the pages immediately following that one.

For example:

You need a throttle part for an **844C-42**, serial number **302**, with a Cummins **6B5.9** engine.

Section 2, "Power Plant", contains information about engine installations. In the table of contents, you find a listing under "Cummins 6B5.9" for "Throttle Group Assembly" on page 2.40.1.

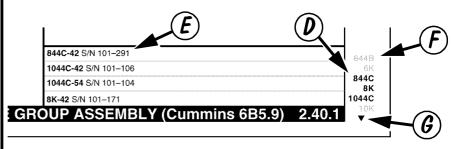


Figure 2

After going to that page, you'll see your model listed on the right-hand side in bold text ($Figure\ 2$, D). This means that the model is covered on this page, but the machine serial number (302) is not shown in the specific information (E). (Grayed model numbers (F) means that those models are not covered by that page.) The black arrow (G) tells you that more serial numbers and/or different models can be found on the next page.

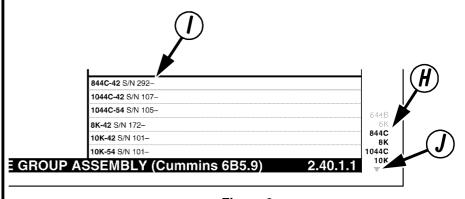


Figure 3

The next page (2.40.1.1) shows that it contains the information for your machine model and serial number (*Figure 3, H & I*). The gray arrow (*J*) means that's the last page for that particular subject.

Page Numbers

Understanding how the page numbers are structured will help you navigate through the book.

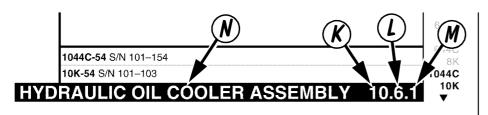


Figure 4

Figure 4 shows a typical page number.

- First number (K): Always matches the section number.
- Second number (*L*): Represents the subject title (*N*) in that section only.
- Third number (M): Shows page order for the machine models under that particular subject (N).



Figure 5

Figure 5 shows a page number with additional serial numbers not covered by the previous page (Figure 4).

• Fourth number (O): First, second, third, etc., page of additional serial numbers for the specified models.

General Information

The revision appears in the right hand margin of each page. The quantity shown in the "QTY" column is the number of parts used on that assembly. Where parts are referenced "REF" the part shown is included in another assembly or part of another item. For certain parts such as shims, spacers, etc. "A/R" indicates that the quantity to be used is as required.

Abbreviations

The following abbreviations are commonly used in this manual:

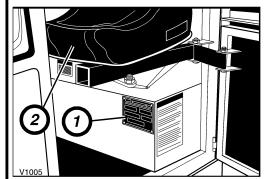
A/R As Required
AmpAmpere
Ass'y Assembly
AUX Auxiliary
BCIBattery Council International
C(Metric) Class
CCA Cold Cranking Performance Rating
CylCylinder
D.P.D.TDual Pole, Dual Throw
D.P.S.T Dual Pole, Single Throw
DiaDiameter
DiffDifferential
GAGauge
GRGrade
Hd Head
HxHex
HydHydraulic
I.DInside Diameter
in Inches
InclIncludes
JICJoint Industry Council
LgLong
L.HLeft Hand
mmMillimeter

N/A Not Applicable
N.L.A No Longer Available
N.P.TNational Pipe Thread
N.S.S Not Sold Separately
O.D Outside Diameter
OscOscillation
ozOunce(s)
PcsPieces
P/NPart Number
P.S.I Pounds Per Square Inch
PtPoint
RdRound
REFReference
ReqRequired
R.H Right Hand
S.P.D.TSingle Pole, Dual Throw
S.P.S.T Single Pole, Single Throw
S/N Serial Number
SAE Society of Automotive Engineers
STDStandard
Temp Temperature
Trans Transmission
w/ With
w/oWithout

ORDERING PARTS

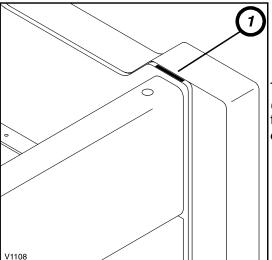
See inside back cover

SERIAL NUMBER LOCATIONS



The machine serial number plate (1) is mounted in the cab, below seat (2).

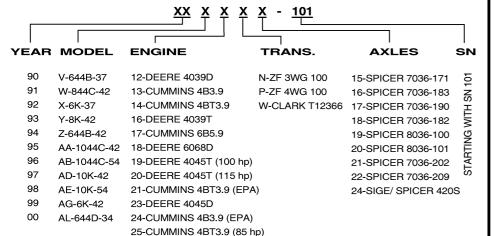
Machine Serial Number Plate



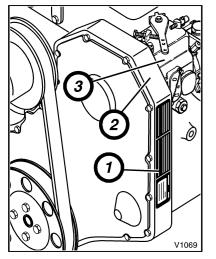
The machine serial number (1) is also stamped into the frame on the top left, rear corner of the machine.

Stamped Machine Serial Number

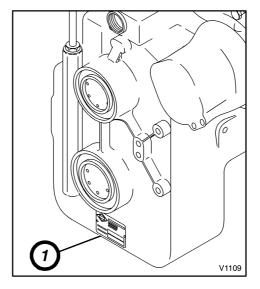
SERIAL NUMBER CODES



The engine serial number plate (1) is located on the right side of the engine, on gear housing (2) near the injection fuel pump (3).

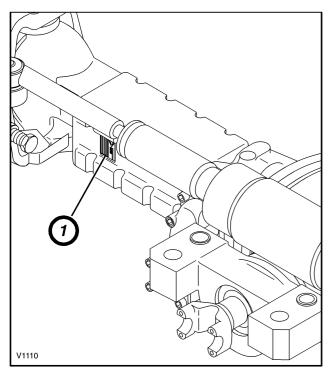


Engine Serial Number — Cummins

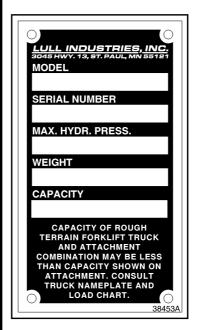


The transmission serial number plate (1) is located in the center, lower rear side of the transmission housing.

Transmission Serial Number



The front axle serial number plate (1) is located on the left, rear side of the axle housing. The rear axle serial number plate is located on the right, front side of the axle housing.



The location of this plate varies with attachment.

Attachment Serial Number Plate

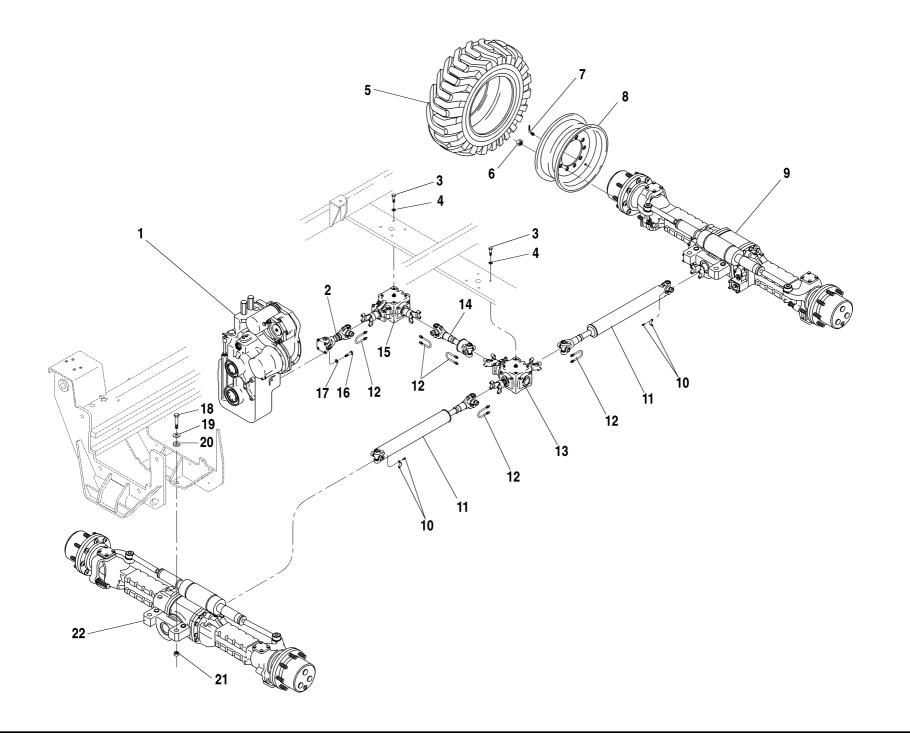
Axle Serial Number

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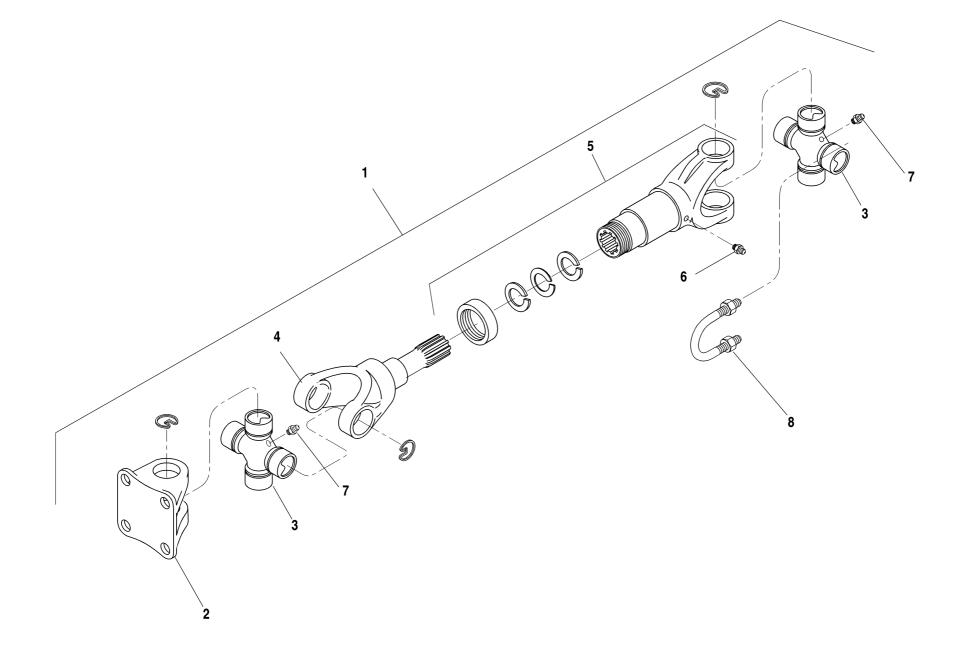
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3rd Gear & Output Shaft Group
1st & 2nd Gear Shaft Group
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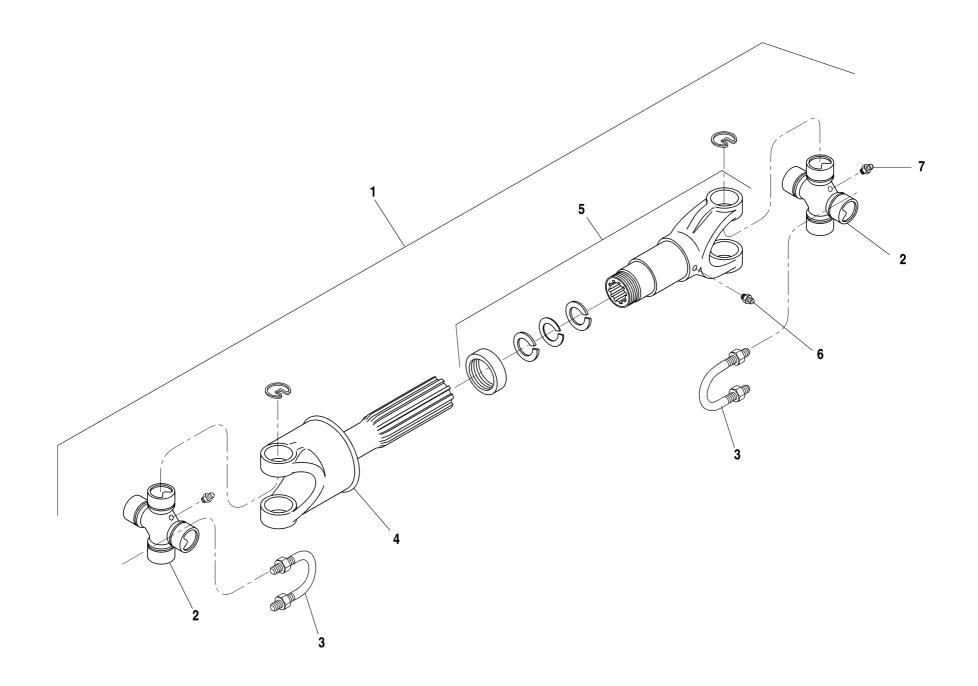
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM PART NO. QTY. DESCRIPTION	— Day 004
1	1100224	1	Transmission		Rev. 004
			(See Pages 1.15.1-1.25.1 for Breakdown)		
2	67273B	1	Drive Shaft, Transmission Output		
			(See Page 1.2.1 for Breakdown)	NOTES:	
3	P00433		Capscrew, Hx., 1/2"-13 × 2" GR 8	• For S/N 108 – 656, use 1100419, Capscrew, Socket Hd., M12-1.75 ×	
4	P01312		Lockwasher, 1/2"	30mm Cl 10.9 .	
5	P19043	-	Tire, 13.00 × 24 12 Ply, Steel Belt	For S/N 108 – 656, use P04609, Lockwasher, M12, .	
6	68024X		Lug Nut		
7	P13673	4	Valve Stem		
8	65448B	4	Wheel Rim, (9×24)		
9	65261A	1	Axle, Rear		
			(See Pages 1.5.1-1.13.1 for Breakdown)		
10	37442X	2	Strap Kit		
11	67275B	2	Drive Shaft Gearbox to Axles		
			(See Page 1.4.1 for Breakdown)		
12	P12530	10	U-Bolt		
13	1101374	1	Gearbox, Tee		
			(See Page 1.28.1 for Breakdown)		
14	68960B	1	Drive Shaft, Intermediate		
			(See Page 1.3.1 for Breakdown)		
15	1101373		Gearbox, 90°		
			(See Page 1.27.1 for Breakdown)		
16	1 100392	4	Capscrew, Socket Hd., $7/16$ "-20 \times 15/16"		
17	2 8307006	4	Lockwasher, 7/16"		
18	P00785	8	Capscrew, Hx., 3/4"-16 × 4"		
19	P01257	8	Washer, Flat, 3/4" Dia.		
20	65611A	8	Washer, Axel Mounting Bolt		
21	P01232		Nut, Hx,. 3/4"-16		
22	65260A	1	Axle, Front		
			(See Pages 1.5.1-1.13.1 for Breakdown)		
				644D-34 S/N 108–	┪
1					



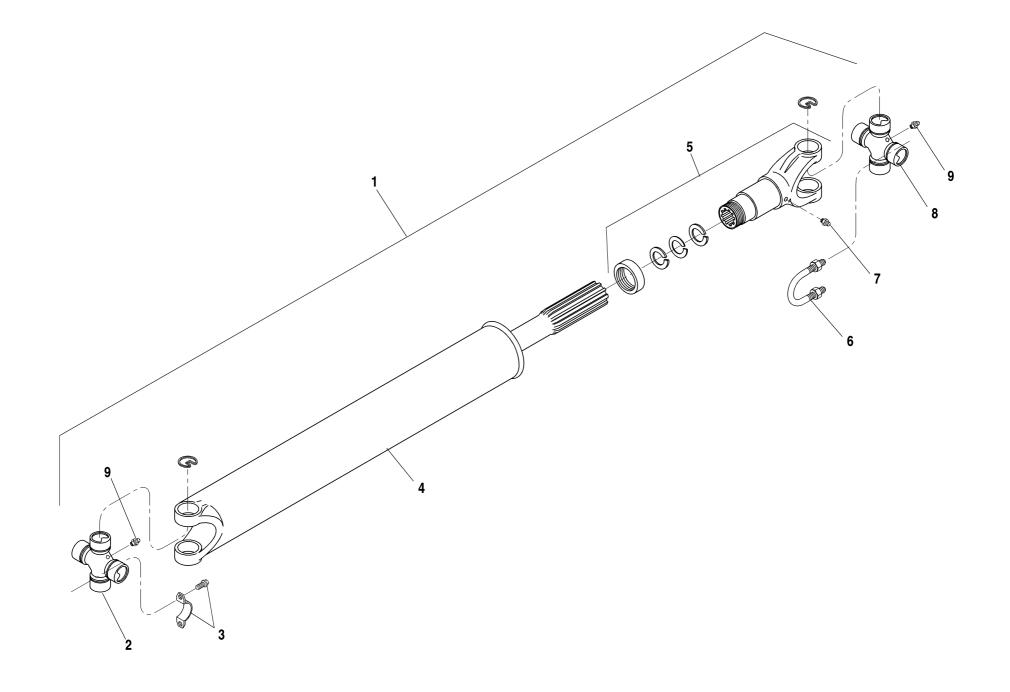
1.2.1 Rev. 003

01A-9003 Rev. 00

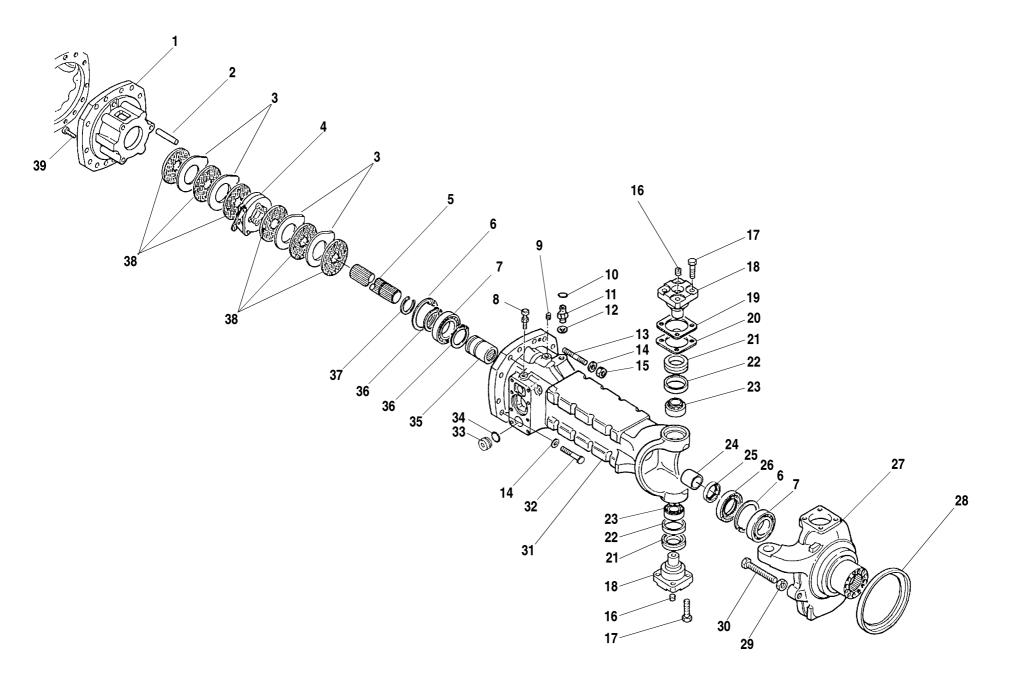
ITEM	PART NO.	QTY.	DESCRIPTION		
1	67273B	-	Drive Shaft (Includes items 2-7)		Rev. 003
2	P11695	1	Flange, Yoke		
3	P11694	2	U-Joint Assembly (Includes Snap Rings)		
4	68348X	1	Yoke, Shaft		
5	P12994	1	Yoke, Slip		
6	P15272	1	Grease Zerk		
7	P16611	2	Grease Zerk		
8	P12530	2	U-Bolt		
					4
				644D-34 S/N 108–	
					-
1					I



ITEMPART NO.QTY.DESCRIPTION168960B1Drive Shaft Intermediate2P116942U-Joint Assembly (Includes Snap Rings & Item 7)3P125304U-Bolt Kit4N.S.SYoke Assembly	Rev
2 P11694 2 U-Joint Assembly (Includes Snap Rings & Item 7) 3 P12530 4 U-Bolt Kit 4 N.S.S Yoke Assembly	
3 P12530 4 U-Bolt Kit 4 N.S.S Yoke Assembly	
4 N.S.S Yoke Assembly	
5 N.S.S. 1 Yoke, Slip	
6 P15272 1 Grease Zerk	
7 P16611 2 Grease Zerk	
644D-34 S/N 108–	

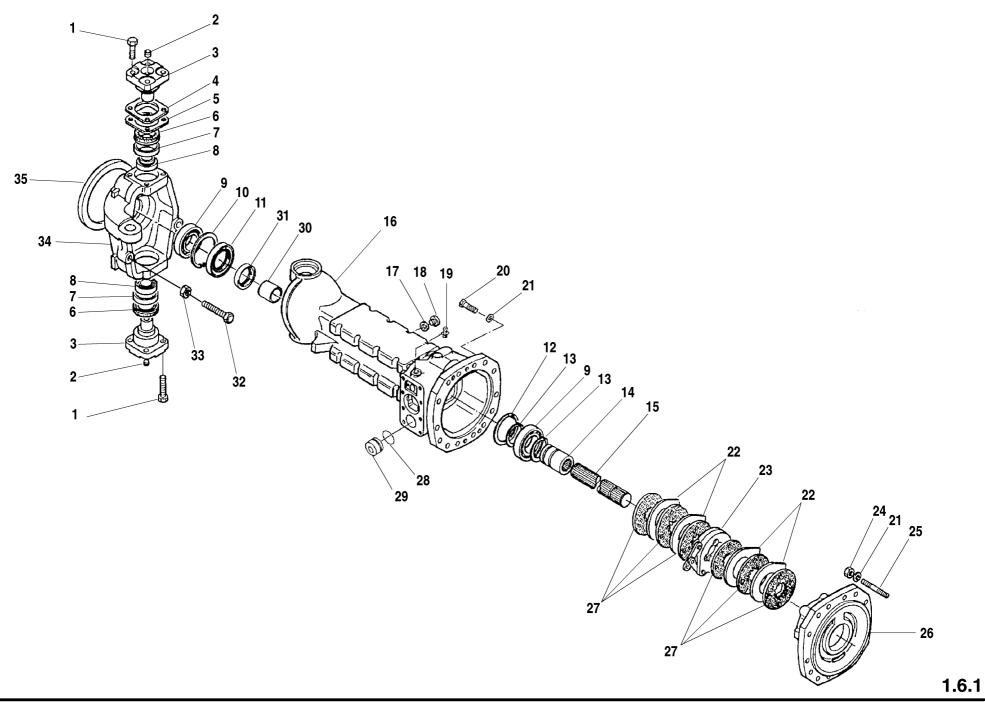


ITEM	PART NO.	QTY.	DESCRIPTION		
1	67275B	2	Driver Shaft Assembly (Includes Items 1-9)		Rev. 000
2	P13000	1	U-Joint Assembly (Includes Snap Rings)		
3	37442X	2	Strap Kit		
4	N.S.S.	-	Shaft Weldment		
5	68347X	1	Yoke, Slip		
6	P12530	2	U-Bolt Kit		
7	P15272	1	Grease Zerk		
8	P11694	1	U-Joint Assembly (Includes Snap Rings)		
9	P16611	2	Grease Zerk		
					1
				644D-34 S/N 108–	
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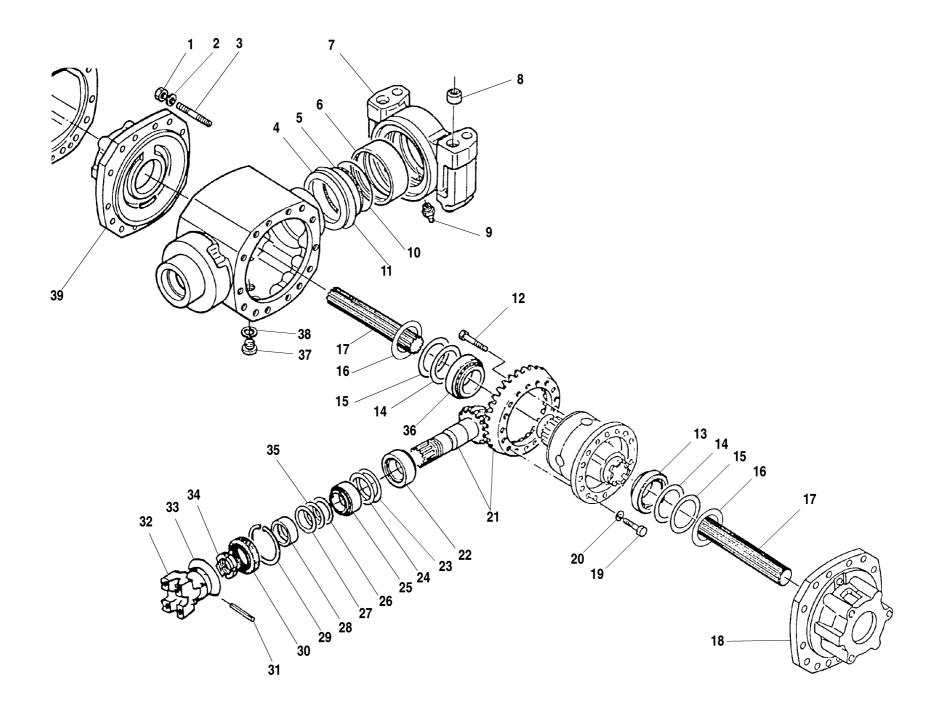
01A-3001 Rev. 004

ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION	
1	67928X	1	Flange	37	67952X	1	Snap Ring	Rev. 00
2	67936X	3	Pin	38	67925X	6	Disc, Brake	
3	67926X	10	Counter, Brake	39	67942X	2	Screw	
4	67924X	1	Ball Brake					
5	67953X	1	Half Shaft Brake					
6	67949X	2	Snap Ring	NOTE	·O.			
7	67948X	2	Bearing	NOTE	:S: Not Used on F	Poor Ayla		
8	67906X	1	Bleed Valve		Not Osed on F	icai Axid	,	
9	67907X	1	Dowel	***************************************				
10	67909X	1	O-Ring					
11	67903X	1	Breather					
12	67902X	1	Gasket					
13	67943X	3	Stud					
14	67944X	14	Thrust Washer					
15	67945X	11	Nut					
16	67938X	2	Dowel					
17	67937X	8	Bolt					
18	67936X	2	Pin					
19	67935X	2	Shim					
20	67934X	2	Shim					
21	67933X	2	Oil Seal					
22	67932X	2	Ring					
23	67931X	2	Bearing					
24	67904X	1	Bushing, Axle Housing					
25	1100334	1	Seal, Axle Housing					
26	67947X	1	Oil Seal					
27	67917X	1	Steering Knuckle Right Front / Left Rear					
			(Includes Item 28)					
28	67919X	1	Cover					
29	67923X	2	Nut					
30	67922X	2	Capscrew					
31	67901X	1	Axle Housing Right Front / Left Rear					
32	67937X	11	Capscrew	CAAD A	24 C/N 100			
33	● 67938X	1	Plug	644D-3	34 S/N 108–			
34	● 67909X	1	O-Ring					
35	67951X	1	Sleeve, Brake					
36	67906X	3	Snap Ring					

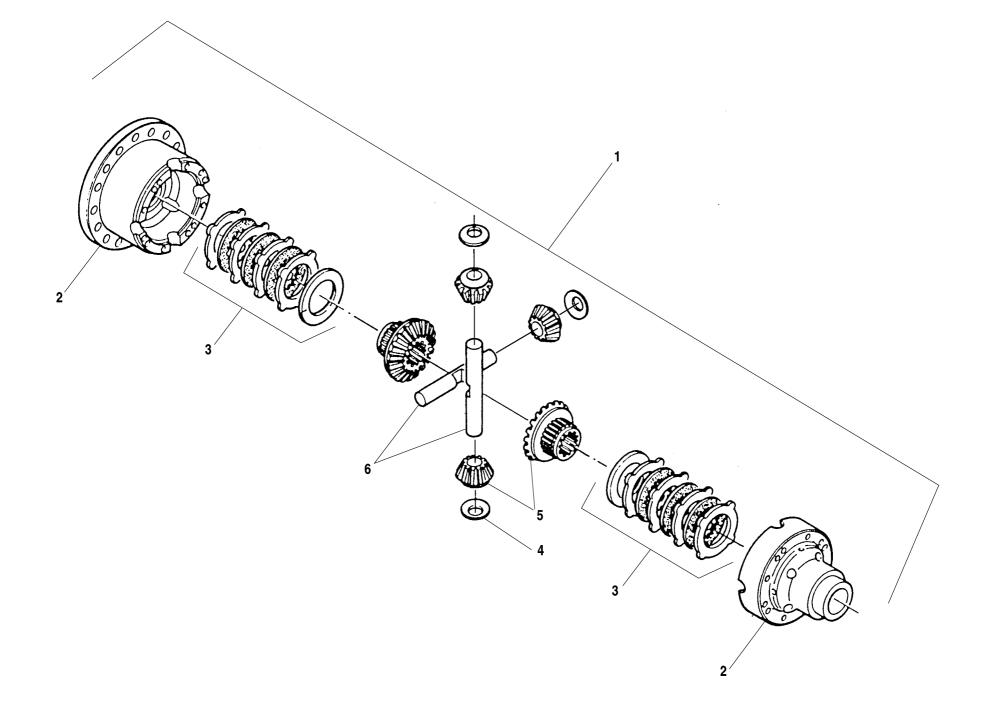


01A-3002 Rev. 004

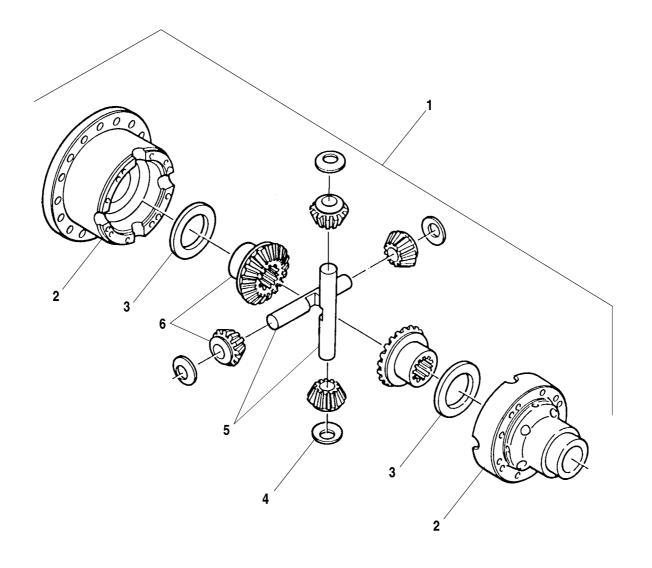
TEM	PART NO.	QTY.	DESCRIPTION	ITEM PART NO. QTY. DESCRIPTION	Rev.
1	2 67937X	8	Bolt, M14x40, GR10.9		nev.
2	67938X	2	Dowel		
3	67936X	2	Pin	NOTES:	
4	67935X	2	Shim	Not Used on Rear Axle.	
5	67934X	2	Shim	Prof. Osed of Flear Axie. For Machines with fenders use 10704281 on the fender mount.	
6	67933X	2	Oil Seal		
7	67932X	4	Ring		
8	67931X	2	Bearing		
9	67948X	2	Bearing		
10	67949X	2	Snap Ring		
11	67947X	1	Oil Seal		
12	67906X	3	Snap Ring		
13	67950X	2	SnapRing		
14	67951X	1	Sleeve, Brake		
15	67953X	1	Half Shaft Brake		
16	67911X	1	Axle Housing (Left Front / Right Rear)		
17	67902X	1	Gasket		
18	67915X	1	Oil Plug		
19	67903X	1	Breather		
20	67946X	11	Capscrew		
21	67944X	14	Thrust Washer		
22	67926X	10	Counter, Brake		
23	67924X	1	Ball Brake		
24	67945X	3	Nut		
25	67943X	3	Stud		
26	67928X	1	Flange		
27	67925X	6	Disc, Brake		
28	● 67909X	1	O-Ring		
29	0 67938X	1	Plug		
30	67904X	1	Bushing, Axle Housing		
31	1100334	1	Seal, Axle Housing		
32	67922X	2	Capscrew, M16		
33	67923X	2	Nut		+
34	67920X	1	Steering Knuckle (Left Front / Right Rear)	644D-34 S/N 108–	
			(Includes Item 35)		
35	67919X	1	Cover		



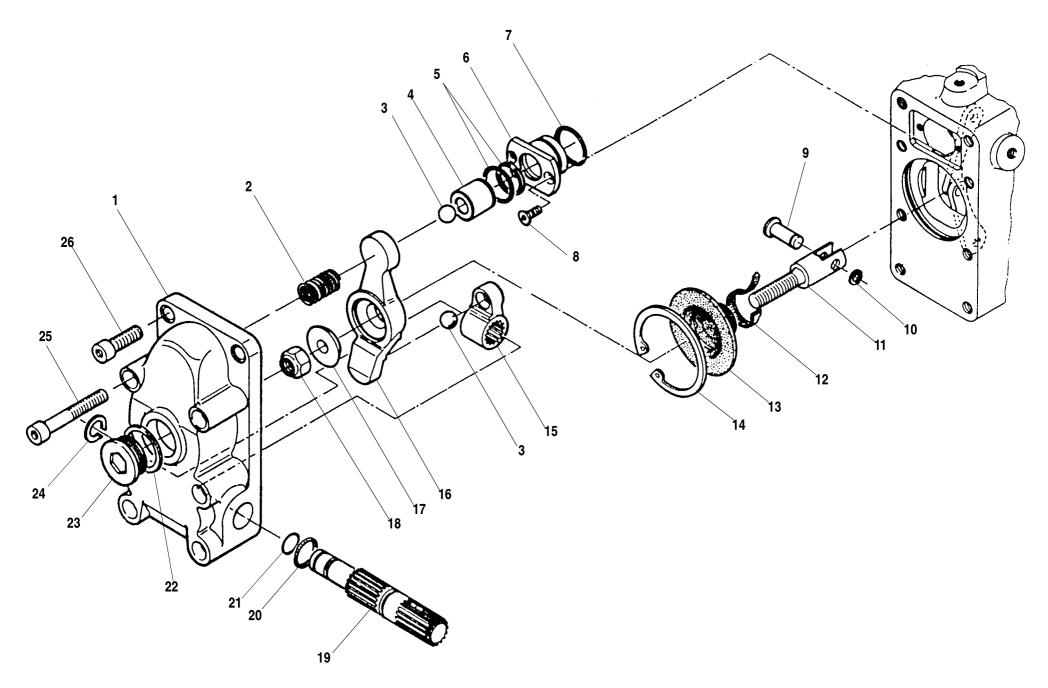
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION	
1	67945X	6	Nut	38	67906X	1	Gasket	Rev. 004
2	67944X	28	Thrust Washer	39	67940X	1	Flange	
3	67943X	6	Stud					
4	67916X	2	Spacer					
5	67965X	2	V-Ring					
6	67957X	2	Bushing					
7	67955X	2	Support					
8	67956X	4	Bushing					
9	67958X	1	Grease Zerk					
10	67959X	2	O-Ring					
11	67960X	2	Spacer					
12	67980X	24	Capscrew					
13	67970X	1	Bearing					
14	67969X	4	Shim					
15	67968X	4	Shim					
16	67967X	4	Shim					
17	67953X	2	Half Shaft, Brake					
18	67939X	1	Flange					
19	67979X	16	Capscrew					
20	67978X	16	Thrustwasher					
21	68079X	1	Bevel Drive					
22	67971X	1	Bearing					
23	67972X	2	Shim					
24	67973X	2	Shim					
25	67974X	1	Bearing					
26	67975X	4	Shim					
27	67977X	4	Shim					
28	67964X	1	Spacer					
29	67963X	1	Snap Ring					
30	67962X	1	Oil Seal					
31	67930X	1	Pin					
32	67928X	1	Flange					
33	67929X	1	Cover					
34	67961X	1	Ring Nut	644D-3	34 S/N 108-			
35	67976X	4	Shim					
36	67966X	1	Bearing					
37	67915X	1	Oil Plug					



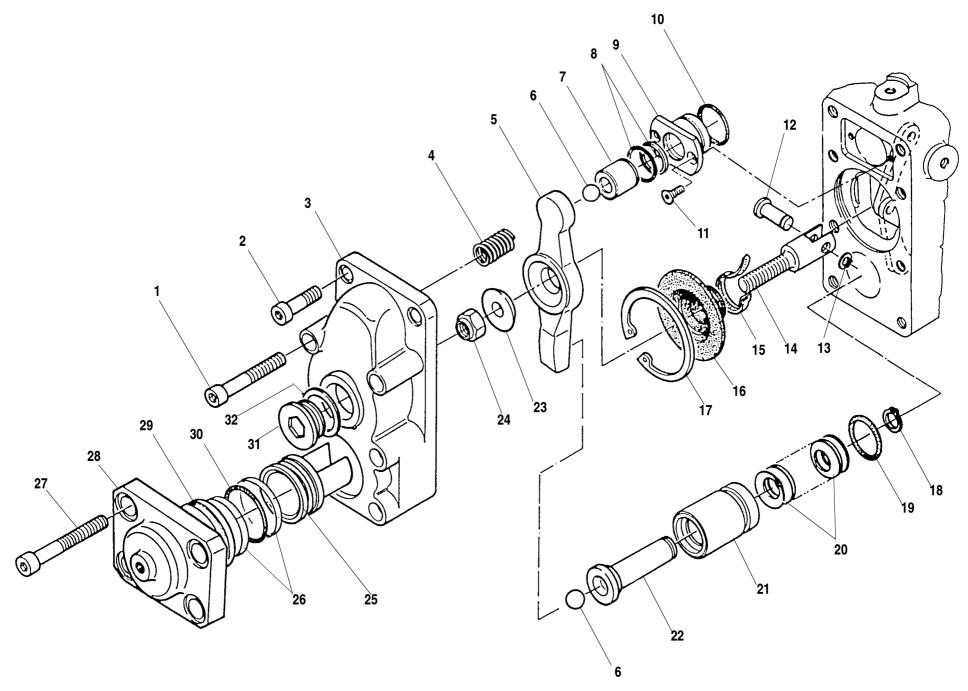
	QTY.			Re
67981X	-	Differential Case Assembly		
67982X	1	Case, Differential		
67983X	2	Disc & Friction Plate Kit		
67985X	4	Thrust Washer		
67984X	1	Gear, Differential		
67986X	2	Pin		
			644D-34 S/N 108–	



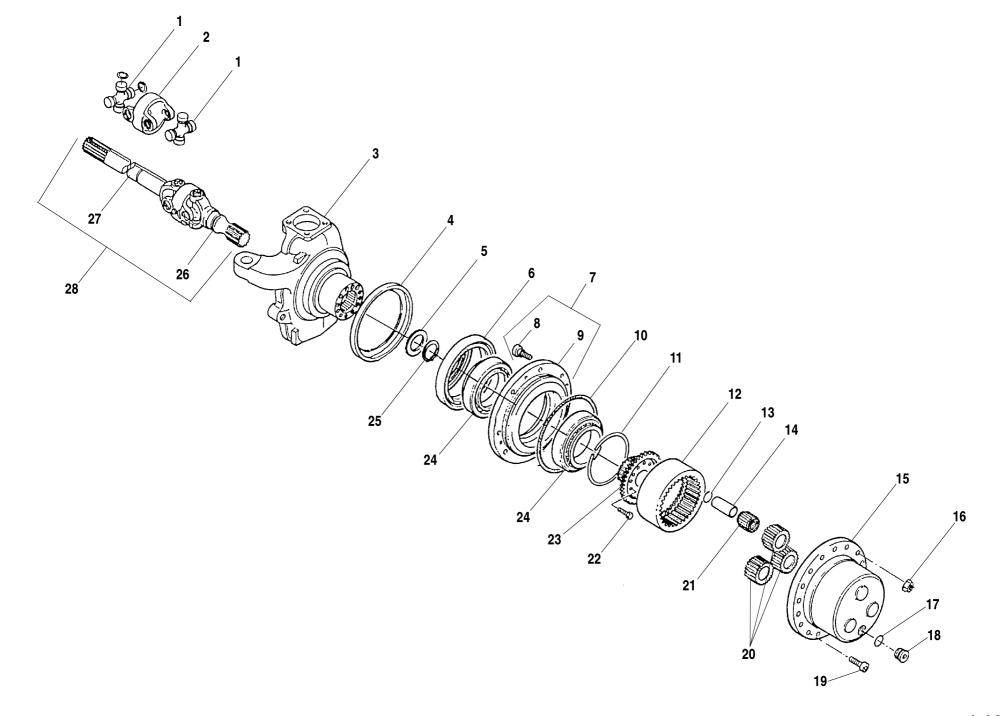
VI	PART NO.	QTY.			R
	68075X	-	Differential Case Complete		
	68076X	1	Case, Differential		
	68078X	2	Washer		
	67985X	4	Thrust Washer		
	67986X	2	Pin		
	68077X	1	Set, Differential Gear		
				644D-34 S/N 108-	



ITEM	PART NO.	QTY.	DESCRIPTION		
1	67990X	1	Box, Brake, Right Hand		Rev. 00
	67991X	1	Box, Brake, Left Hand		
2	67994X	1	Spring		
3	68000X	1	Ball		
4	67999X	1	Piston, Brake		
5	67998X	1	Oil Seal, Brake		
6	67997X	1	Bushing		
7	67996X	1	O-Ring		
8	68001X	2	Screw		
9	68009X	1	Pin		
10	68011X	1	Snap Ring		
11	68010X	1	Fork		
12	68008X	1	Clamp		
13	68007X	1	Seal Ring		
14	68006X	1	Snap Ring		
15	68002X	1	Transmission		
16	67995X	1	Brake Lever		
17	67993X	1	Ball Washer		
18	67992X	1	Nut		
19	68005X	1	Pin		
20	68004X	1	O-Ring		
21	68003X	1	O-Ring		
22	67989X	1	Gasket		
23	67988X	1	Oil Plug		
24	68068X	1	Snap Ring		
25	67980X	4	Screw		
26	67987X	4	Screw		
				644D-34 S/N 108–	7
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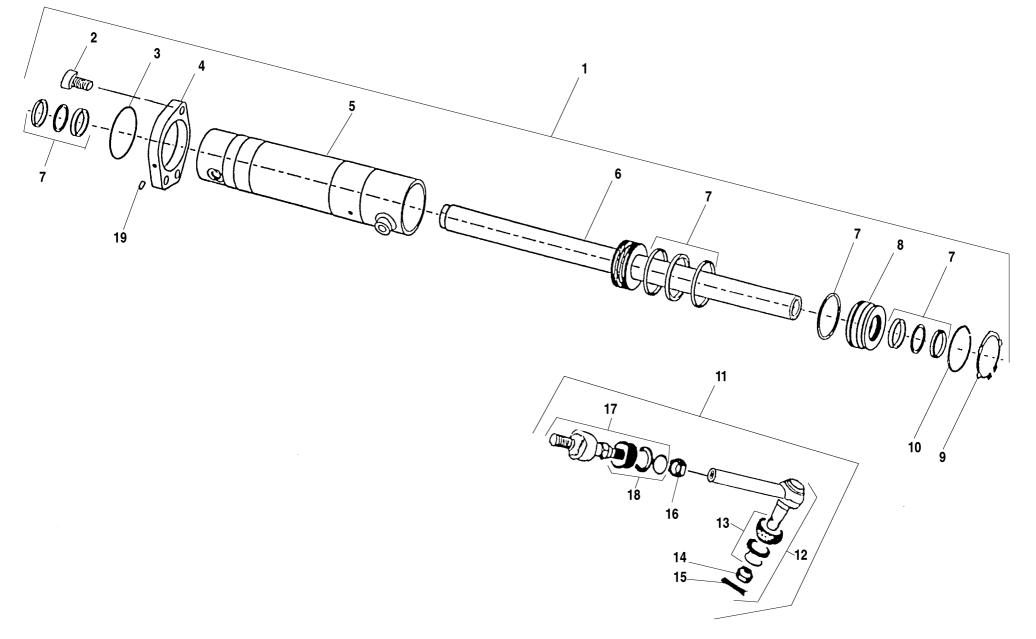


ITEM	PART NO.	QTY.	DESCRIPTION		. Dov. (
1	67980X	4	Screw		Rev. 0
2	67987X	4	Screw		
3	68069X	1	Box, Brake, Rear Axle		
4	67994X	1	Spring		
5	68070X	1	Lever, Brake		
6	68000X	2	Ball		
7	67999X	1	Piston, Brake		
8	67998X	1	Seal, Oil		
9	67997X	1	Bushing, Brake		
10	67996X	1	O-Ring		
11	68001X	2	Screw		
12	68009X	1	Pin		
13	68011X	1	Snap Ring		
14	68010X	1	Fork		
15	68008X	1	Clamp		
16	68007X	1	Seal Ring		
17	68006X	1	Snap Ring		
18	68068X	1	Snap Ring		
19	67909X	1	O-Ring		
20	68071X	16	Spring		
21	68067X	1	Bushing, Brake		
22	68065X	1	Pin		
23	67993X	1	Ball Washer		
24	67992X	1	Nut		
25	68062X	1	Piston, Brake		
26	68061X	2	Ring		
27	68050X	4	Screw		
28	68058X	1	Flange		
29	68060X	1	O-Ring		
30	68063X	1	O-Ring		
31	67988X	1	Oil Plug		
32	67989X	1	Gasket		
				644D-34 S/N 108–	
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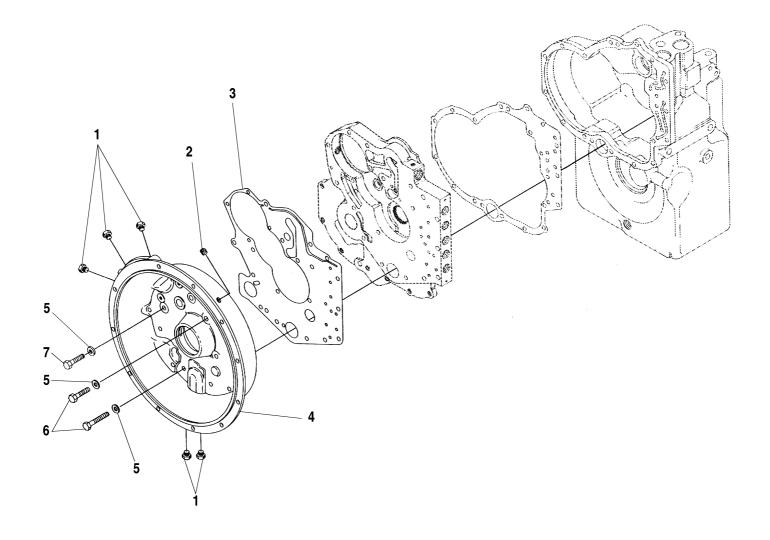


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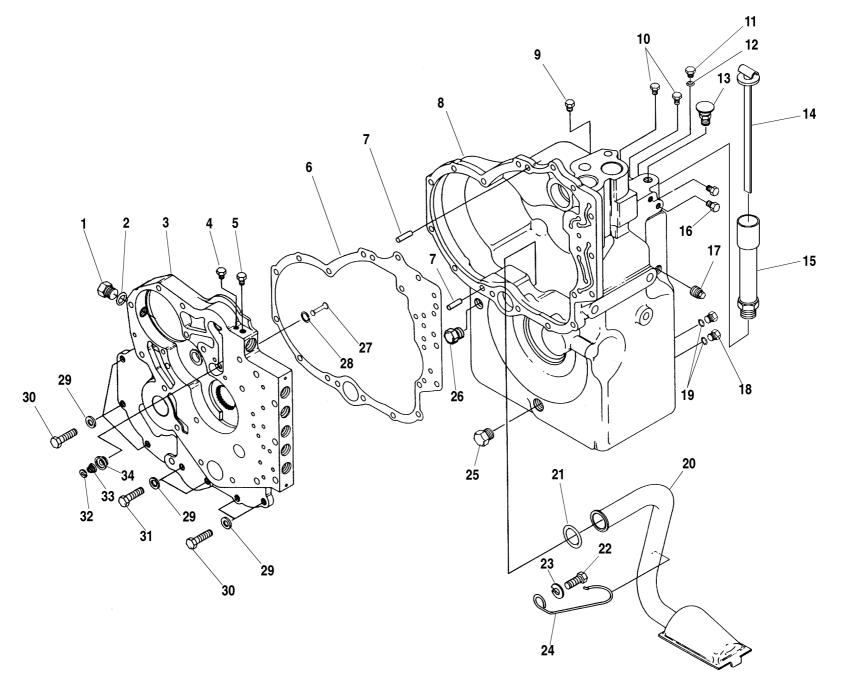
ITEM	PART NO.	QTY.	DESCRIPTION	
1	68031X	2	U-Joint	
2	68032X	1	Coupling, Yoke	
3	67918X	1	Steering Knuckle, Right Front / Left Rear	
	67921X	1	Steering Knuckle, Left Front / Right Rear	
4	67919X	1	Cover	
5	68028X	1	Thrust Washer	
6	68072X	1	Box Ring	
7	68012X	-	Wheel Hub Complete (Includes Items 9 & 10)	
8	68014X	8	Stud,Wheel	
9	68013X	1	Hub, Wheel	
10	68016X	1	O-Ring	
11	68017X	1	Ring	
12	68020X	1	Ring Gear	
13	68021X	3	Snap Ring	
14	68022X	3	Pin, Planet	
15	68026X	1	Flange	
16	68024X	8	Lug Nut	
17	67902X	1	Gasket	
18	67915X	1	Oil Plug	
19	68027X	2	Screw	
20	68025X	1	Set, Planet Gear	
21	68023X	3	Cage, Roller Bearing	
22	68019X	12	Screw	
23	68018X	1	Sun Gear	
24	68015X	2	Bearing	
25	67950X	1	Snap Ring	
26	1100333	1	Half Shaft	
27	68033X	1	Differential Half Shaft	
28	68029X	1	Shaft Assemble (Includes Items 1-2, 26 & 27)	
				644D-34 S/N 108–
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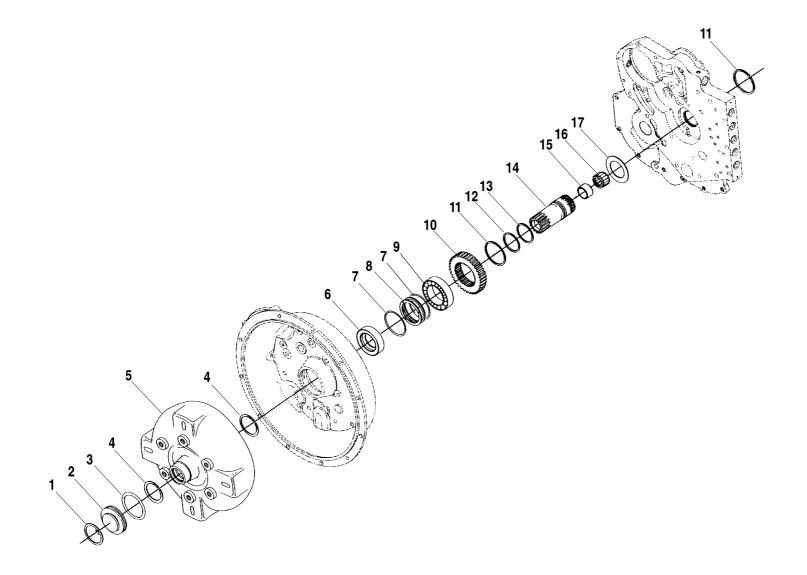
ЕМ	PART NO.	QTY.	DESCRIPTION		
1	68040X	-	Steer Cylinder (Includes Items 2-10)		Re
2	68050X	3	Screw, Cylinder		
3	68048X	1	Snap Ring		
1	68047X	1	Flange		
5	68046X	1	Barrel, Steer Cylinder		
3	68045X	1	Rod, Steer Cylinder		
7	68041X	1	Seal Kit		
3	68044X	1	Piston		
)	68042X	1	Snap Ring RB		
0	68043X	1	Snap Ring RW		
1	68051X	1	Steering Arm Assembly (Includes Items 12-18)		
2	68052X	1	Steering Arm (Includes Items 13-15)		
3	68073X	1	Kit, Ring & Guard		
Ļ	68056X	1	Nut		
5	68055X	1	Split Pin		
3	68054X	1	Nut		
,	68053X	1	Axial Joint (Includes Item 18)		
}	68074X	1	Kit, Ring & Guard		
9	68049X	1	Pin, Elastic		
				644D-34 S/N 108–	-



ITEM	PART NO.	QTY.	DESCRIPTION		
1	68200X	5	Plug		Rev. 000
REF	68201X	_	O-Ring for Item 1		
2	68202X	1	Plug		
3	68203X	1	Gasket, Housing to Plate		
4	68204X	1	Converter Housing		
5	68205X	22	Lockwasher		
6	68206X	16	Capscrew		
7	68207X	6	Capscrew		
				644D-34 S/N 108–	

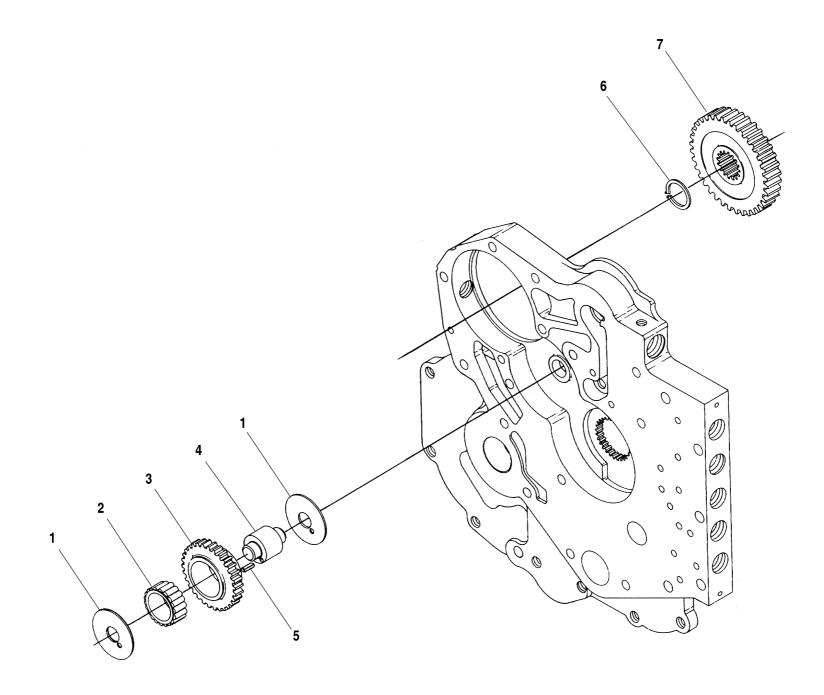


1 68209X 2 68210X 3 68211X 4 P20808 5 68212X 6 68213X 7 68214X 8 68215X 9 68216X 10 P20808 11 68208X 12 68210X 13 68217X 14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68219X 20 6821X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X		PART NO.	QTY.	DESCRIPTION		
3 68211X 4 P20808 5 68212X 6 68213X 7 68214X 8 68215X 9 68216X 10 P20808 11 68208X 12 68210X 13 68217X 14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X		68209X	1	Plug, Sensor Port] R
4 P20808 5 68212X 6 68213X 7 68214X 8 68215X 9 68216X 10 P20808 11 68208X 12 68210X 13 68217X 14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	<u>-</u>	68210X	1	O-Ring		
5 68212X 6 68213X 7 68214X 8 68215X 9 68216X 10 P20808 11 68208X 12 68210X 13 68217X 14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	3	68211X	1	Plate, Spacer		
6 68213X 7 68214X 8 68215X 9 68216X 10 P20808 11 68208X 12 68210X 13 68217X 14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68218X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	ļ	P20808	1	Plug, Inlet Pressure Port		
7 68214X 8 68215X 9 68216X 10 P20808 11 68208X 12 68210X 13 68217X 14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68218X 20 68221X 21 37074X 22 68222X 23 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	5	68212X	1	Plug, Outlet		
8 68215X 9 68216X 10 P20808 11 68208X 12 68210X 13 68217X 14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	3	68213X	1	Gasket, Spacer Plate to Transmission		
9 68216X 10 P20808 11 68208X 12 68210X 13 68217X 14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	7	68214X	2	Dowel Pin		
10 P20808 11 68208X 12 68210X 13 68217X 14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	}	68215X	1	Case, Transmission		
11 68208X 12 68210X 13 68217X 14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X)	68216X	1	Plug, Filler		
12 68210X 13 68217X 14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	0	P20808	1	Plug, Pipe		
13 68217X 14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	1	68208X	1	Plug, Speed Sensor Port		
14 1100332 15 8034964 16 68200X 17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	2	68210X	1	O-Ring		
15 8034964 16 68200X 17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	3	68217X	1	Air Breather		
16 68200X 17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	4	1100332	1	Dipstick, Transmission		
17 68218X 18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	5	8034964	1	Tube, Dipstick		
18 68220X 19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	6	68200X	2	Plug		
19 68219X 20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	7	68218X	1	Plug, Sensor Port		
20 68221X 21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	8	68220X	2	Plug, Oil Level		
21 37074X 22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	9	68219X	2	O-Ring		
22 68222X 23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	0	68221X	1	Oil Supply Tube		
23 68223X 24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	1	37074X	1	Seal, Oil Supply Tube		
24 68224X 25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	2	68222X	1	Capscrew		
25 P20614 26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	3	68223X	1	Washer		
26 68225X 27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	4	68224X	1	Retaining Clip		
27 68226X 28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	5	P20614	1	Plug, Magnetic Drain		
28 68227X 29 68205X 30 68344X 31 68228X 32 68345X	6	68225X	1	Plug, Drain		
29 68205X 30 68344X 31 68228X 32 68345X	7	68226X	1	Valve, Poppet		
30 68344X 31 68228X 32 68345X	8	68227X	1	Snap Ring		
31 68228X 32 68345X	9	68205X	9	Lockwasher		
32 68345X	0	68344X	7	Capscrew		
	1	68228X	2	Capscrew		
	2	68345X	1	Washer, Poppet		
33 P23310	3	P23310	1	Spring, Safety Valve		4
34 68229X	4	68229X	1	Seat, Safety Valve	644D-34 S/N 108–	

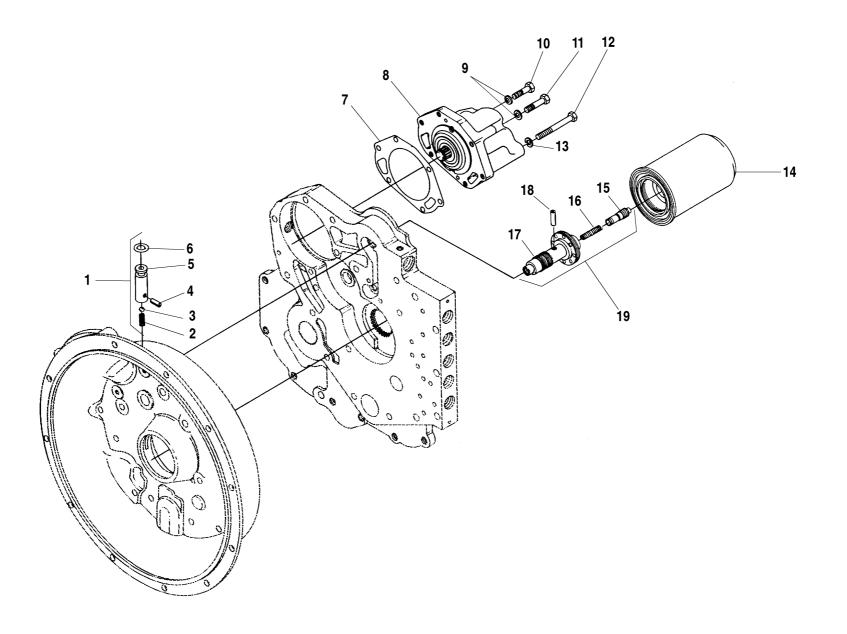


1.17.1 Rev. 000

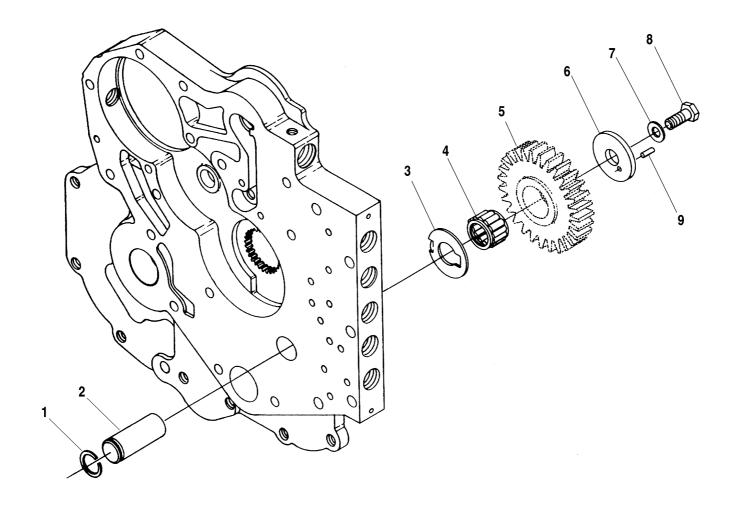
ITEM	PART NO.	QTY.	DESCRIPTION		
1	68230X	1	Snap Ring		Rev
2	P20565	1	Plug, Torque Converter		
3	68231X	1	O-Ring		
4	68232X	2	Snap Ring		
5	68233X	1	Torque Converter		
6	37072X	1	Oil Seal		
7	37071X	1	O-Ring		
8	68234X	2	Oil Distributor Ring		
9	68235X	1	Bearing, Torque Converter		
10	68236X	1	Gear, Impeller Hub		
11	68237X	1	Snap Ring, Stator Support		
12	37070X	2	Piston Ring, Stator Support		
13	68238X	1	Expander, Piston Ring, Stator Support		
14	68239X	1	Stator Support Assembly (Includes Items 15 & 16)		
15	68240X	1	Bushing		
16 17	68242X 68241X	1	Bearing Washer, Impeller Hub Gear		
				644D-34 S/N 108–	



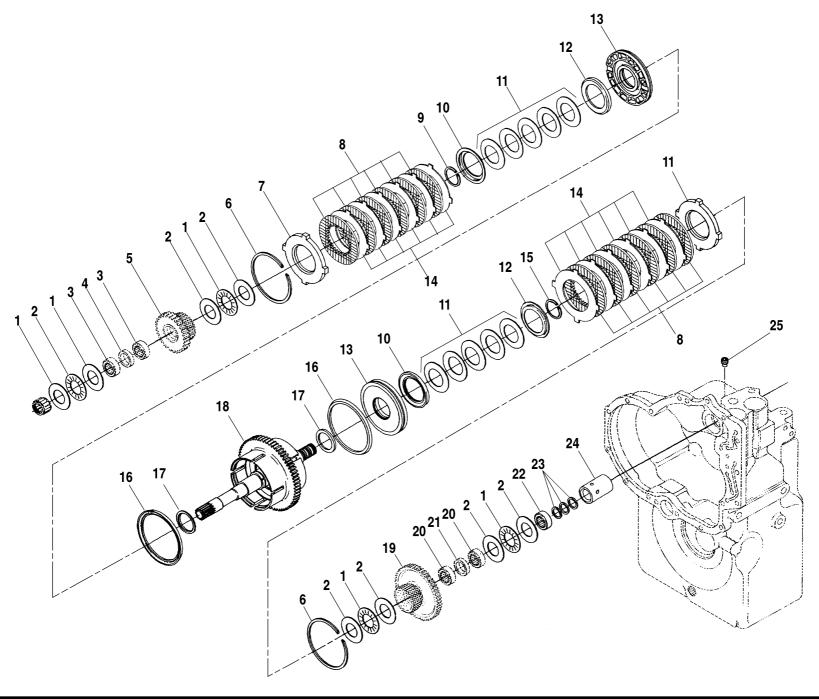
ITEM	PART NO.	QTY.	DESCRIPTION		
1	68243X	2	Thrust Washer, Pump Drive Idler		Rev. 000
2	68244X	1	Bearing, Idler Gear		
3	68245X	1	Gear, Pump Drive Idler (31T)		
4	37073X	1	Pump Drive Idler Shaft (Includes Item 5)		
5	68248X	1	Roll Pin		
6	68246X	1	Snap Ring		
7	68247X	1	Gear, Pump Drive (34T)		
				644D-34 S/N 108–	†
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TEM	PART NO.	QTY.	DESCRIPTION	
1	68250X	1	Check Valve Assembly (Includes Items 2-6)	
2	68253X	1	Spring	
3	68252X	1	Ball	
1	68251X	1	Pin	
5	N.S.S.	-	Housing, Check Valve	
3	68249X	1	O-Ring	
7	68254X	1	Gasket, Charging Pump	
8	68255X	1	Pump, Charging	
9	68346X	5	Lockwasher	
0	68256X	1	Capscrew	
1	68257X	4	Capscrew	
2	68258X	1	Capscrew	
3	68205X	1	Lockwasher	
4	68259X	1	Filter	
5	68260X	1	Piston	
6	68261X	1	Spring	
7	68263X	1	Sleeve	
8	68262X	1	Pin	
9	68264X	1	Regulator Valve Assembly (Includes Items 15-18)	
				644D-34 S/N 108–

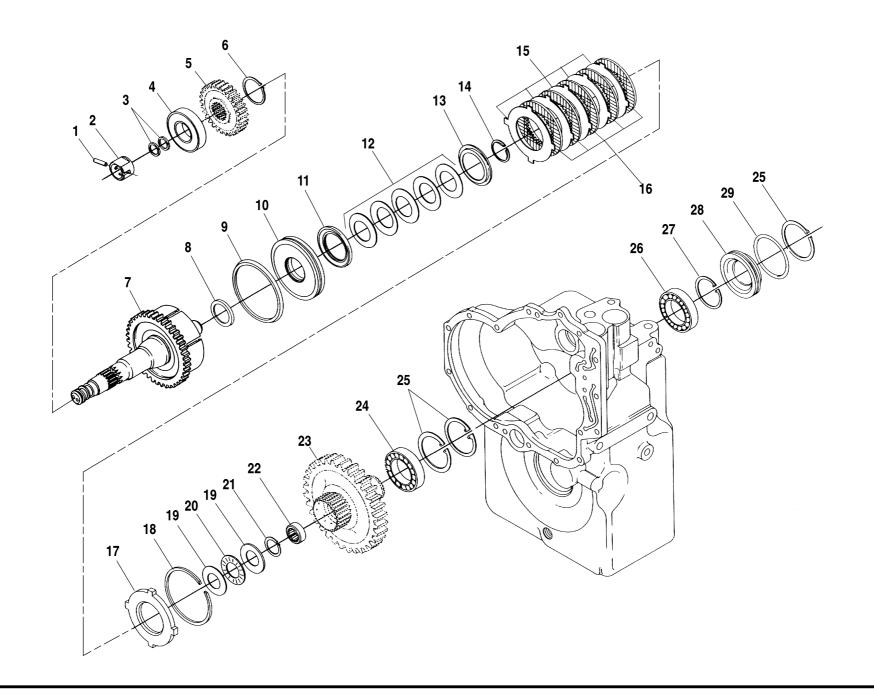


1 68265X 1 Shaft, Idler & Pilot 3 68266X 1 Thrust Washer 4 68268X 1 Bearing, Reverse Idler Gear 5 6833X 1 Gear, Reverse Idler 6 68269X 1 Washer 8 68271X 1 Capscrew 9 68272X 1 Roll Pin 68272X 1	ITEM	PART NO.	QTY.	DESCRIPTION		
2 68266X 1 Shaft, Idler & Pilot 3 68267X 1 Thrust Washer 4 68268X 1 Bearing, Reverse Idler Gear 5 68333X 1 Gear, Reverse Idler 6 68269X 1 Washer 8 68271X 1 Capscrew 9 68272X 1 Roll Pin						Rev. 00
3 68267X 1 Thrust Washer 4 68268X 1 Bearing, Reverse Idler Gear 5 68333X 1 End Plate 6 68269X 1 End Plate 7 68270X 1 Washer 8 68271X 1 Capscrew 9 68272X 1 Roll Pin						
4 68268X 1 Bearing, Reverse Idler Gear 5 68333X 1 Gear, Reverse Idler 6 68269X 1 End Plate 7 68270X 1 Washer 8 68271X 1 Capscrew 9 68272X 1 Roll Pin			1			
5 68333X 1 Gear, Reverse Idler 6 68269X 1 End Plate 7 68270X 1 Washer 8 68271X 1 Capscrew 9 68272X 1 Roll Pin			1			
6 68269X 1 End Plate 7 68270X 1 Washer 8 68271X 1 Capscrew 9 68272X 1 Roll Pin			1	Gear, Reverse Idler		
7 68270X 1 Washer 8 68271X 1 Capscrew 9 68272X 1 Roll Pin			1			
8 68271X 1 Capscrew 9 68272X 1 Roll Pin			1			
9 68272X 1 Roll Pin	8		1			
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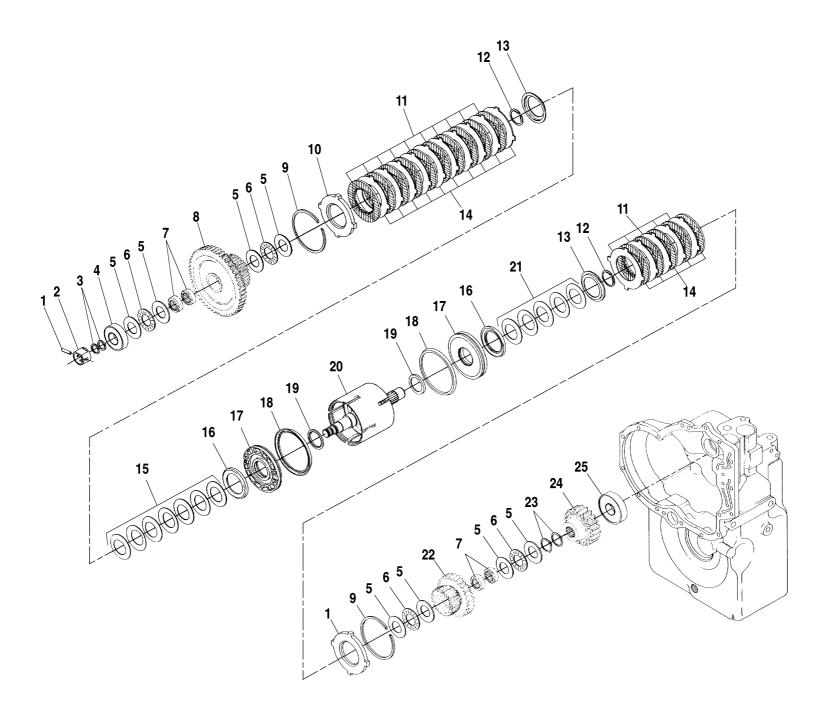


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1 37066X 8 Thrust Washer	─ Re
2 37065X 4 Thrust Washer Bearing	
3 68334X 2 Reverse Clutch Gear Bearing	
4 68335X 1 Reverse Clutch Bearing Spacer	
5 68336X 1 Reverse Clutch Gear Bearing Assembly	
6 68273X 2 Snap Ring	
7 37067X 1 End Plate	
8 37064X 12 Inner Disc	
9 68274X 1 Snap Ring	
10 68275X 2 Retainer, Snap Ring	
11 68276X 1 Disc Washer Spring Set (Includes 5 Washers)	
12 68277X 2 Wear Plate, Clutch Piston	
13 68278X 2 Clutch Piston Assembly (Includes Items 13 & 14)	
14 37063X 12 Outer Disc	
15 68274X 1 Snap Ring	
16 37062X 2 Outer Seal, Clutch Piston	
17 37061X 2 Inner Seal, Clutch Piston	
18 68279X 1 Turbine Shaft Drum & Plug Assembly	
19 68337X 1 Forward Gear & Clutch Assembly	
20 68334X 2 Bearing	
21 68335X 1 Bearing Spacer	
22 68280X 1 Bearing, Turbine Shaft	
23 37060X 3 Piston Ring	
24 68281X 1 Sleeve, Oil Distribution	
25 68282X 1 Retaining Screw	
644D-34 S/N 108–	
044D-34 3/N 100-	

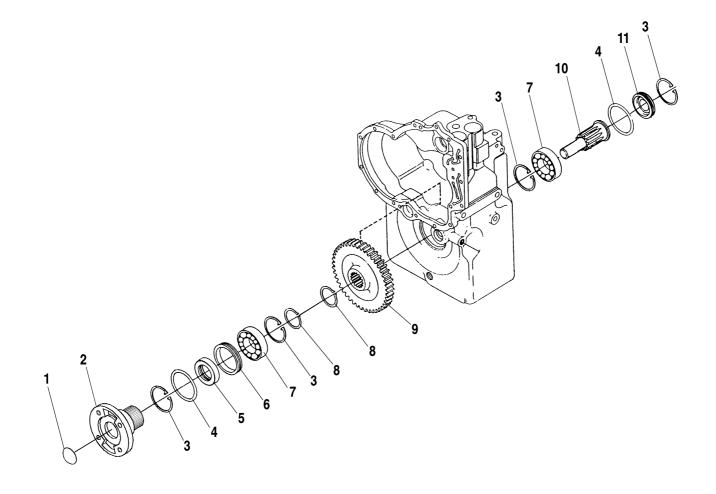


ITEM	PART NO.	QTY.	DESCRIPTION		
1	68283X	1	Sleeve locating Screw		
2	68284X	1	Sleeve, Oil Distribution		
3	37060X	2	Piston Ring		ı
4	68285X	1	Bearing & Seal Assembly		
5	68338X	1	Gear, Drive	~ 	
6	68286X	1	Snap Ring		
7	68287X	1	3rd Gear Shaft, Drum & Plug Assembly		
8	37061X	1	Seal, Inner Clutch Piston		
9	37062X	1	Seal, Outer Clutch Piston		
10	68288X	1	Clutch Piston & Ball Seat Assembly		
		1	(Includes Items 8 & 9)		ı
11	68277X	1	Clutch Piston Wear Plate		
12	68276X	1	Disc Spring Assembly (Includes 5 Springs)		
13	68275X	1	Snap Ring Retainer		
14	68274X	1	Snap Ring		ı
15	37063X	5	Outer Disc- 3rd Clutch		
16	37064X	5	Inner Disc- 3rd Clutch	**	
17	37067X	1	End Plate		
18	68273X	1	Snap Ring, End Plate		ı
19	37066X	2	Thrust Washer		ı
20	37065X	1	Thrust Washer Bearing		
21	68289X	1	Snap Ring, Thrust Washer Retaining		
22	68290X	1	Bearing		ı
23	68339X	1	3rd Gear & Shaft		ı
24	68291X	1	Bearing, Rear		ı
25	68302X	5	Snap Ring, Rear Bearing Retaining		
26	P23509	1	Bearing, Output Shaft		
27	68292X	1	Snap Ring, Output Shaft Bearing Retaining		ı
28	68293X	1	Plug, Capped End		
29	68294X	1	Oil Seal Sleeve O-Ring		ı
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ITEM	PART NO.	QTY.	DESCRIPTION		
1	68283X	1	Screw, Sleeve Locating		Rev. 000
2	68295X	1	Oil Distribution Sleeve		
3	37060X	2	Piston Ring		
4	68285X	1	Bearing & Seal Assembly		
5	37066X	8	Thrust Washer, Clutch Gear		
6	37065X	4	Thrust Washer Bearing, Clutch Gear		
7	68337X	2	Bearing Assembly		
8	68340X	1	1st Clutch & Gear Assembly		
9	68273X	2	Snap Ring, End Plate		
10	37067X	2	End Plate		
11	37064X	15	Inner Disc		
12	68274X	2	Snap Ring, Retaining		
13	68275X	2	Retainer, Snap Ring		
14	37063X	15	Outer Disc		
15	68296X	2	Clutch Disc Spring Set (Includes 7 Springs)		
16	68252X	2	Wear Plate, Clutch Piston		
17	68297X	2	Clutch Piston & Seal Assembly		
			(Includes Items 17 & 18)		
18	37062X	2	Outer Seal, Clutch Piston		
19	37061X	2	Inner Seal, Clutch Piston		
20	68298X	1	1st & 2nd Gear Shaft, Drum & Plug Assembly		
21	68276X	1	2nd Gear Clutch Disc Spring Set		
			(Includes 5 Springs)		
22	68341X	1	2nd Clutch &n Gear Assembly		
23	68286X	2	Snap Ring		
24	68342X	1	3rd Clutch Driven Gear		
25	68299X	1	Bearing, Rear		
				644D-34 S/N 108–	†
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1.24.1Rev. 001

01A-4011 Rev. 00⁻¹

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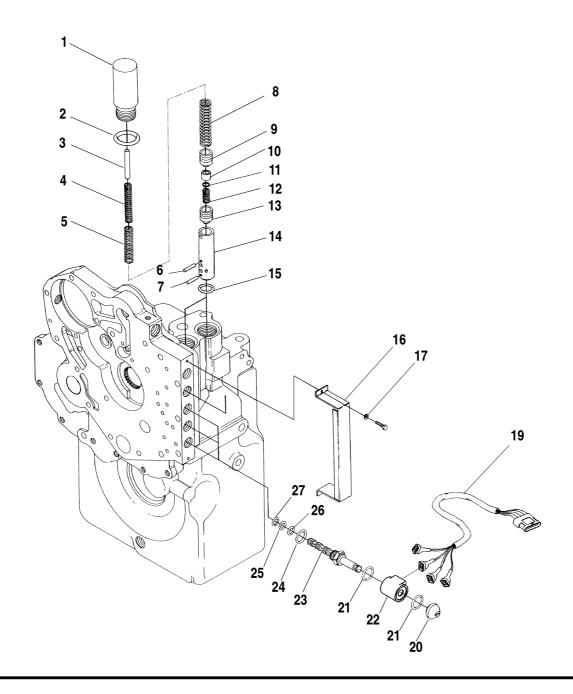
ITEM	PART NO.	QTY.	DESCRIPTION
1	68300X	1	Plug, Flange
2	1 100322	1	Output Flange, 7/16"-20 Threads
	N.L.A.	1	Output Flange, 12MM Threads
3	68302X	2	Snap Ring, Output Shaft Bearing
4	68294X	2	Oil Seal Sleeve O-Ring
5	P20723	1	Oil Seal, Output Shaft
6	68303X	1	Oil Seal, Sleeve
7	P23509	2	Bearing, Output Shaft
8	68292X	2	Snap Ring
9	1100317	1	Gear, Output Shaft
10	1100318	1	Output Shaft & Brake Flange
11	1100319	1	Output Shaft Bore Plug
12	2 8310469	4	Capscrew, Socket Hd., 7/16"-20 x 1 1/4"
13	2 8307006	4	Lockwasher, 7/16"

NOTES:

- If replacing a metric threaded output flange new drive shaft mounting bolts and washers are required. See itmes 12 & 13.
- Not illustrated

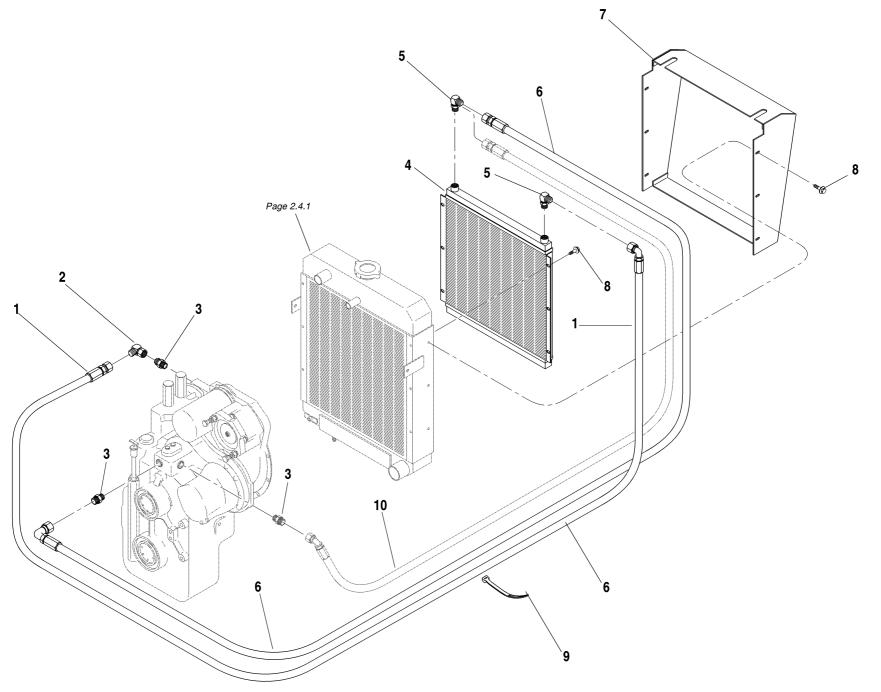
N.S.S. = Not Sold Separately

644D-34 S/N 108-

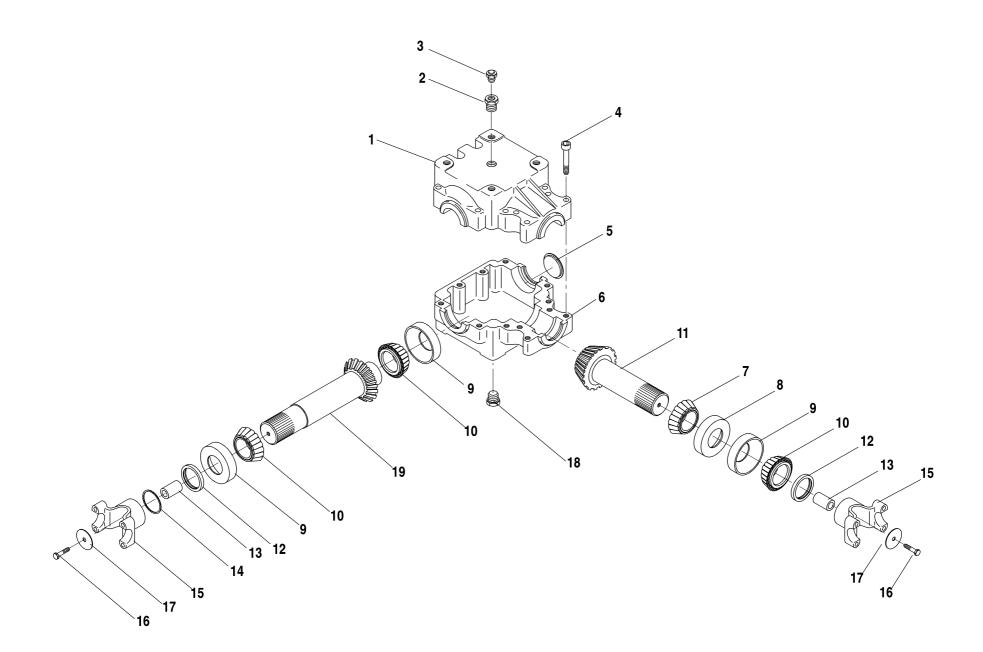


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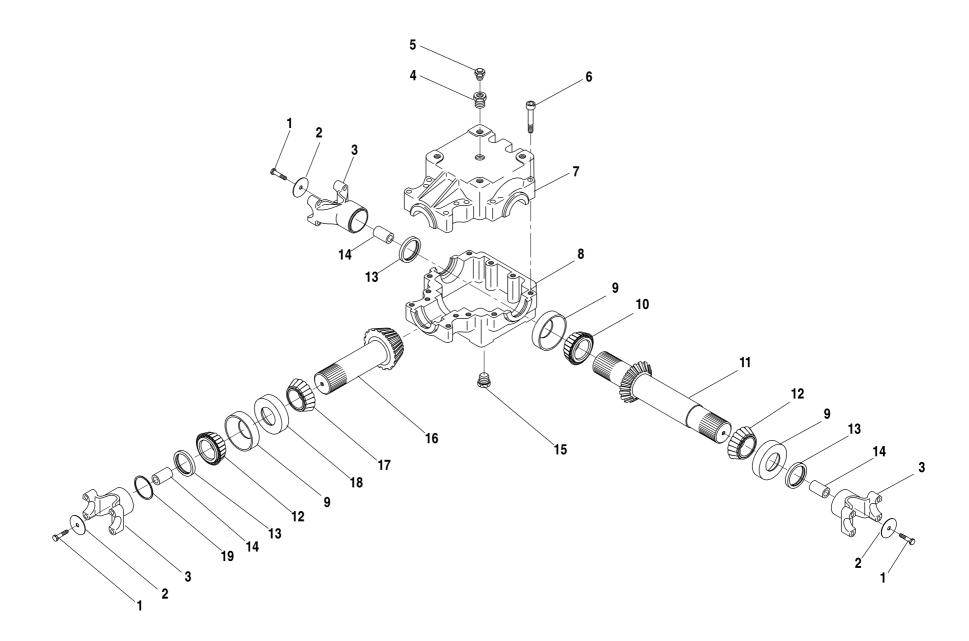
TEM	PART NO.	QTY.	DESCRIPTION		7 F
REF	68331X	1	Modulator Valve Assembly (Includes Items 1-14)		٦
1	68306X	1	Housing, Modulator Valve		
2	68307X	1	O-Ring		
3	68308X	1	Stop Pin		
4	68309X	1	Spring, Inner		ı
5	68310X	1	Spring, Middle		ı
6	68311X	1	Pin, Upper		
7	68312X	1	Pin, Lower		
8	68320X	1	Spring, Outer		
9	68319X	1	Accumulator Spool		ı
10	68318X	1	Spring Retainer		ı
11	68317X	1	Spacer, Spring		ı
12	68316X	1	Spring		
13	68315X	1	Regulartor Spool		ı
14	68314X	1	Sleeve, Modulation Housing		
15	68313X	1	O-Ring		
16	68323X	1	Cover, Protective		ı
17	68321X	2	Lockwasher		
18	68322X	2	Capscrew		
19	68396X	1	Wireing Harness		
20	68324X	1	Retaining Nut		ı
21	68325X	1	O-Ring		
22	68326X	1	Solenoid Coil		
23	68332X	4	Valve Cartridge, 4 Way		ı
24	68330X	1	O-Ring		
25	68329X	1	O-Ring		
26	68328X	1	O-Ring		
27	68327X	1	O-Ring		
				644D-34 S/N 108-	
					1



TEM PART NO. OTY. DESCRIPTION
2 P17802 1 Apapter, 90° 3 P23901 1 Apapter, Straight 4 67234B 1 Cooler, Oil 5 P17802 2 Apapter, 90° 6 66747X 1 Hose, Transmission Oil Cooler 7 67381C 1 Shroud, Radiator 8 P05320 6 Capscrew, Hx., 5/16"-18 × 1/2" 9 P17989 A/R Cable Tie
4 67234B 1 Cooler, Oil 5 P17802 2 Apapter, 90° 6 66747X 1 Hose, Transmission Oil Cooler 7 67381C 1 Shroud, Radiator 8 P05320 6 Capscrew, Hx., 5/16"-18 × 1/2" 9 P17989 A/R Cable Tie
5 P17802 2 Apapter, 90° 6 66747X 1 Hose, Transmission Oil Cooler 7 67381C 1 Shroud, Radiator 8 P05320 6 Capscrew, Hx., 5/16"-18 × 1/2" 9 P17989 A/R Cable Tie
6 66747X 1 Hose, Transmission Oil Cooler 7 67381C 1 Shroud, Radiator 8 P05320 6 Capscrew, Hx., 5/16"-18 × 1/2" 9 P17989 A/R Cable Tie
7 67381C 1 Shroud, Radiator 8 P05320 6 Capscrew, Hx., 5/16"-18 × 1/2" 9 P17989 A/R Cable Tie
8 P05320 6 Capscrew, Hx., 5/16"-18 × 1/2" 9 P17989 A/R Cable Tie
9 P17989 A/R Cable Tie
10 68106X 1 Hose Transmission Oil Cooler
644D-34 S/N 108–



ITEM	PART NO.	QTY.	DESCRIPTION		- B 004
1	1100301	1	Casting, Machined Upper		Rev. 004
2	68392X	1	Bushing, 1/2 NPT to 1/8 NPT		
3	1100310	1	Plug, Vent 5 P.S.I.		
4	68390X	12	Bolt, 3/8-16 × 2 1/4" SHCS		
5	1100315	1	Plug, End		
6	1100300	1	Casting, Machined Lower		
7	1100304	1	Bearing, Cup		
8	1100305	1	Bearing, Cone		
9	1100306	3	Bearing, Cup		
10	1100307	3	Bearing, Cone		
11	1101375	1	Pinion, Shaft/Gear, Assembly		
12	1100308	2	Seal		
13	1100311	2	Spacer		
14	1100309	1	Ring, Retaining 1 3/4"		
15	68393X	2	Yoke End		
16	68394X	2	SHCS 3/8"-16 × 1 1/4"		
17	68395X	2	Washer, .300 × 1.750 Gearbox		
18	68389X	1	Plug 1/2 NPT SKHD Hex		
19	1101376	1	Pinion\Gear Sub Assembly		
				644D-34 S/N 108-	
					6440



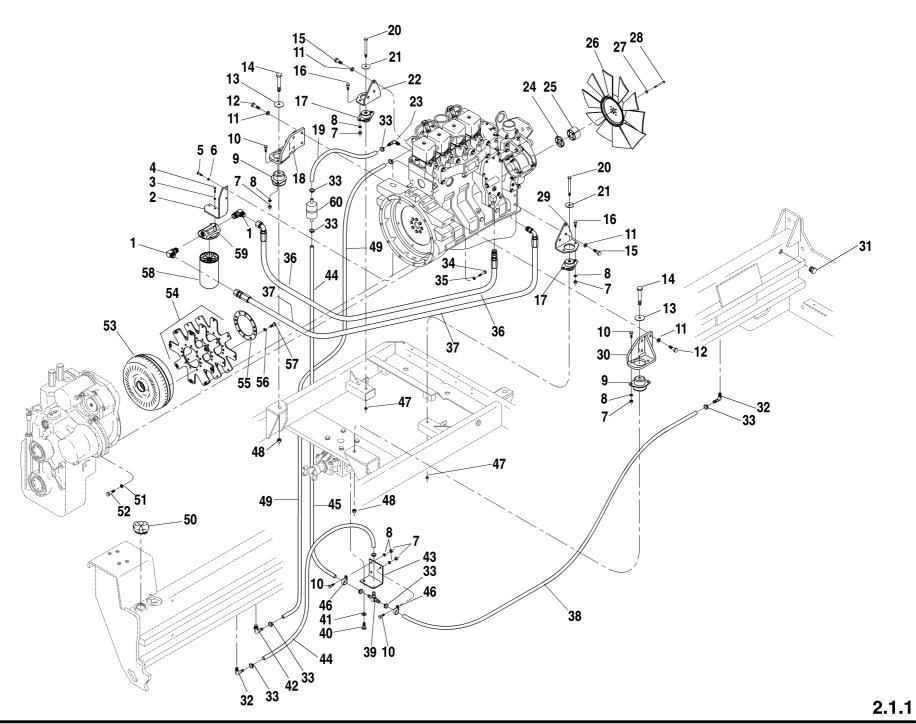
TEM	PART NO.	QTY.	DESCRIPTION		
1	68394X	3	SHCS 3/8"-16 × 1 1/4"		٦ Re
2	68395X	3	Washer, .300 × 1.750 Gearbox		
3	68393X	3	Yoke End		
4	68392X	1	Bushing, 1/2 NPT to 1/8 NPT		
5	1100310	1	Plug, Vent 5 P.S.I.		
6	68390X	12	Bolt, 3/8-16 × 2 1/4" SHCS		
7	1100300	1	Casting, Machined Upper		
8	1100301	1	Casting, Machined Lower		
9	1100306	3	Bearing, Cup		
10	1100312	1	Bearing, Cone		
11	1101377	1	Cross/Gear Sub Assembly		
12	1100307	2	Bearing, Cup		
13	1100308	3	Seal		
14	1100311	3	Spacer		
15	68389X	1	Plug 1/2 NPT SKHD Hex		
16	1101375	1	Pinion/Gear Sub Assembly		
17	1100304	1	Bearing, Cone		
18	1100305	1	Bearing, Cup		
19	1100309	1	Ring, Retaining, 1 3/4"		
				644D-34 S/N 108–	

TABLE OF CONTENTS

Section 2 — Power Plant

Cummins	4BT3.	.(
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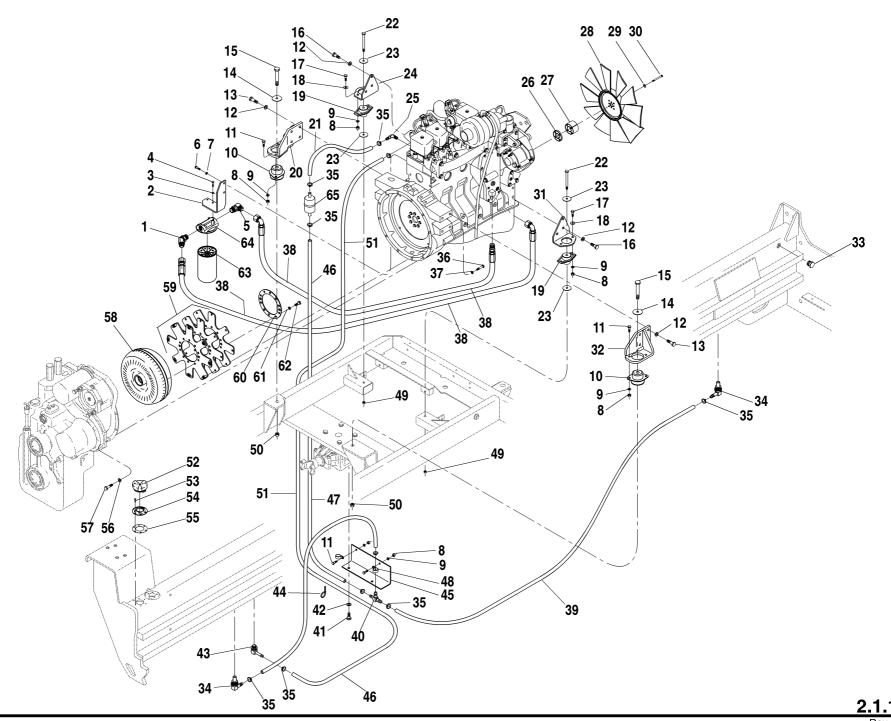
Engine Mounting & Fuel Lines	2.1.1
Exhaust Assembly	2.2.1
Air Cleaner Assembly	2.3.1
Radiator Group Assembly	2.4.1
Throttle Group Assembly	251



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ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION	
1	P17802	2	Adapter 90°	38	67130A-98	1	Hose, Fuel 3/8" × 98"	
2	67707B	1	Mount, Oil Filter	39	37652X	1	Tee, Union Hose	
3	P01308	2	Lockwasher, 1/4"	40	P00400	1	Capscrew, Hx., 1/2"-13 × 3/4"	
4	P00005	2	Capscrew, Hx., 1/4"-20 × 1"	41	P01312	1	Lockwasher, 1/2"	
5	P04103	2	Capscrew, Hx., M8-1.25 × 20mm CI 8.8	42	67534X	1	Adapter, Barbed	
6	P04607	2	Lockwasher, M8	43	67720A	1	Bracket Fuel Line	
7	P01508	8	Nut, Hx,. 3/8"-16	44	67130A-62	1	Hose, Fuel 3/8" × 62"	
8	P01310	8	Lockwasher, 3/8"	45	67130A-23	1	Hose, Fuel 3/8" × 23"	
9	67192X	2	Engine Mount, Rubber, Rear	46	37368X	2	Clamp	
10	P00204	4	Capscrew, Hx., 3/8"-16 × 1"	47	P01659	2	Lock Nut, Hx,. 7/16"-14 (Nylon Insert)	
11	P04609	14	Lockwasher, M12	48	P01662	2	Lock Nut, Hx,. 5/8"-11 (Nylon Insert)	
12	P04203	6	Capscrew, Hx., M12-1.75 × 30mm	49	67129A-83	1	Hose, Fuel Return 5/16" × 83"	
13	P00641	2	Capscrew, Hx., 5/8"-11 × 4" GR 8	50	67714A	1	Cap, Fuel Tank	
14	67514X	2	Washer, Rebound 5/8"	51	P04608	11	Lockwasher, M10	
15	P04205	8	Capscrew, Hx., M12-1.75 × 40mm	52	P04154	11	Capscrew, Hx., M10-1.5 × 30mm	
16	P00205	4	Capscrew, Hx., 3/8"-16 × 1 1/4"	53	68233X	1	Torque Converter	
17	67193X	2	Engine Mount, Rubber, Front	54	37075X	1	Kit, Drive Plate	
18	67188X	1	Engine Mount, Cummins, Left Rear	55	68092X	1	Drive Plate Backing Ring	
19	67130A-3	1	Hose, Fuel $3/8" \times 3"$	56	P20538	6	Lockwasher	
20	P00342	2	Capscrew, Hx., 7/16"-14 × 4 1/2" GR 8	57	68091X	6	Capscrew	
21	67513X	2	Washer, Rebound 7/16"	58	P31295	1	Filter, Oil	
22	67190X	1	Engine Mount, Cummins, Left Front	59	67510X	1	Head, Lube Oil Filter	
23	P28874	1	Adapter, 90° 3/8" Barb	60	66109X	1	Filter, Fuel	
24	68094X	1	Spacer, Fan 1/4"					
25	68093X	1	Spacer, Fan 1 1/2"					
26	66113X	1	Fan, 18" Suction					
27	P04630	4	Flatwasher, M8					
28	P04113	4	Capscrew, Hx., M8-1.25 × 70mm CL 8.8					
29	67191X	1	Engine Mount, Cummins, Right Front					
30	67189X	1	Engine Mount, Cummins, Right Rear					
31	10715446	1	Plug, Adapter, SAE 1"					
32	67718A	2	Adapter, 90°					
33	P14047	8	Clamp, Hose, 3/8"					
34	P00284	8	Capscrew, Hx., 3/8"-24 × 1 3/4" GR 8					
35	P01252	8	Flatwasher, 3/8"					
36	66748X	1	Hose Hyd, 3/4" × 31"	E				
37	66749X	1	Hose Hyd, 3/4" × 38"	6440 3	M C/N 100 060	······································		
				644D-34 S/N 108–262				

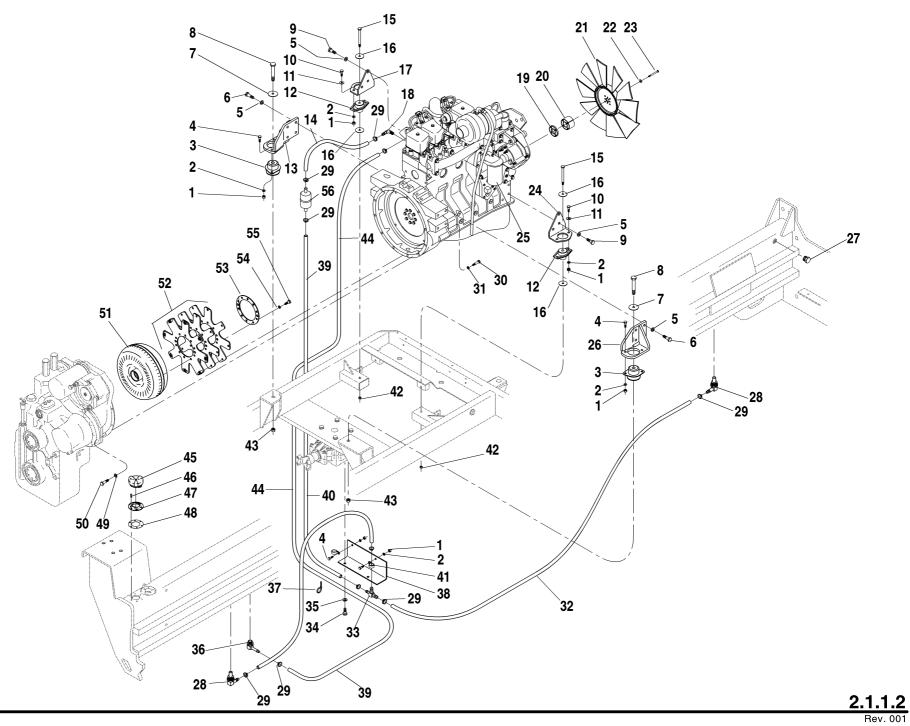
Rev. 001



HeV. 001

ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	P19147	1	Adapter 45°	38	68118X	1	Hose Hyd, 3/4" × 41"
2	67707B	1	Mount, Oil Filter	39	67130A-99	1	Hose, Fuel 3/8" × 99"
3	P01308	2	Lockwasher, 1/4"	40	37652X	1	Tee, Union Hose
4	P00005	2	Capscrew, Hx., 1/4"-20 × 1"	41	P00400	1	Capscrew, Hx., 1/2"-13 × 3/4"
5	P17802	1	Adapter 90°	42	P01312	1	Lockwasher, 1/2"
6	P04103	2	Capscrew, Hx., M8-1.25 × 20mm CI 8.8	43	67534X	1	Adapter, Barbed
7	P04607	2	Lockwasher, M8	44	P17989	A/R	Cable Tie
8	P01508	8	Nut, Hx,. 3/8"-16	45	67720A	1	Bracket Fuel Line
9	P01310	8	Lockwasher, 3/8"	46	67130A-76	1	Hose, Fuel 3/8" × 76"
10	68968B	2	Engine Mount, Rubber, Rear	47	67130A-27	1	Hose, Fuel 3/8" × 27"
11	P00204	4	Capscrew, Hx., 3/8"-16 × 1"	48	37368X	2	Clamp
12	P04609	14	Lockwasher, M12	49	P01659	2	Lock Nut, Hx,. 7/16"-14 (Nylon Insert)
13	P04203	6	Capscrew, Hx., M12-1.75 × 30mm	50	P01662	2	Lock Nut, Hx,. 5/8"-11 (Nylon Insert)
14	P00641	2	Capscrew, Hx., 5/8"-11 × 4" GR 8	51	67129A-112	1	Hose, Fuel Return 5/16" × 112"
15	67514A	2	Washer, Rebound 5/8"	52	67714A	1	Cap, Fuel Tank
16	P04205	8	Capscrew, Hx., M12-1.75 × 40mm	53	P02077	6	Screw,. #10-32 × 3/8"
17	P00205	4	Capscrew, Hx., 3/8"-16 × 1 1/4"	54	68970B	1	Neck, Fill
18	P01277	4	Flatwasher, 3/8"	55	68971A	1	Gasket
19	68969B	2	Engine Mount, Rubber, Front	56	P04608	11	Lockwasher, M10
20	67188B	1	Engine Mount, Cummins, Left Rear	57	P04154	11	Capscrew, Hx., M10-1.5 x 30mm
21	67130A-3	1	Hose, Fuel 3/8" × 3"	58	68233X	1	Torque Converter
22	P00342	2	Capscrew, Hx., 7/16"-14 × 4 1/2" GR 8	59	37075X	1	Kit, Drive Plate
23	67513A	2	Washer, Rebound 7/16"	60	68092X	1	Drive Plate Backing Ring
24	67190B	1	Engine Mount, Cummins, Left Front	61	P20538	6	Lockwasher
25	P28874	1	Adapter, 90° 3/8" Barb	62	68091X	6	Capscrew
26	68094X	1	Spacer, Fan 1/4"	63	P31295	1	Filter, Oil
27	68093X	1	Spacer, Fan 1 1/2"	64	67510X	1	Head, Lube Oil Filter
28	66113X	1	Fan, 18" Suction	65	66109X	1	Filter, Fuel
29	P04630	4	Flatwasher, M8				
30	P04113	4	Capscrew, Hx., M8-1.25 × 70mm CL 8.8				
31	67191B	1	Engine Mount, Cummins, Right Front				
32	67189B	1	Engine Mount, Cummins, Right Rear				
33	10715446	1	Plug, Adapter, SAE 1"				
34	67718A	2	Adapter, 90°				
35	P14047	8	Clamp, Hose, 3/8"				
36	P00284	8	Capscrew, Hx., 3/8"-24 × 1 3/4" GR 8				
37	P01252	8	Flatwasher, 3/8"	l	M O NI COO ===		
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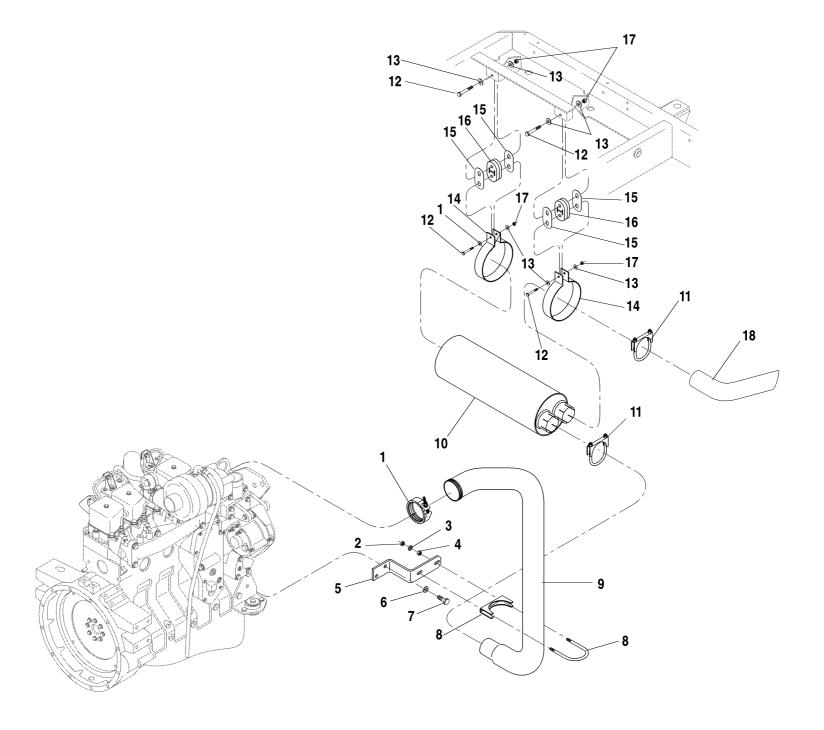
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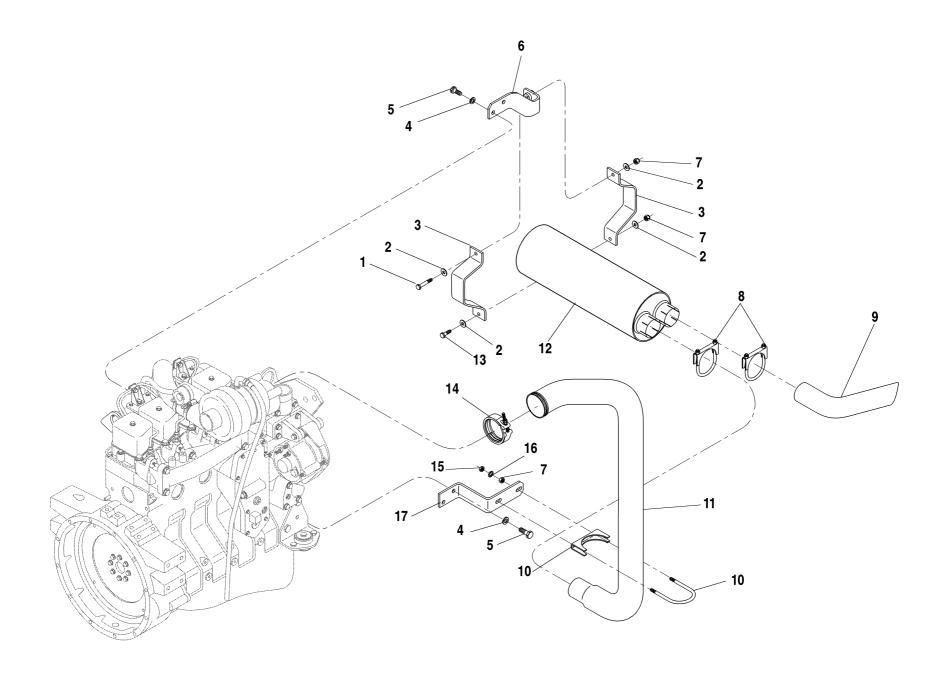
02A-1002

ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	P01508	8	Nut, Hx,. 3/8"-16	38	67720A	1	Bracket Fuel Line
2	P01310	8	Lockwasher, 3/8"	39	67130A-76	1	Hose, Fuel 3/8" × 76"
3	68968B	2	Engine Mount, Rubber, Rear	40	67130A-27	1	Hose, Fuel 3/8" × 27"
4	P00204	4	Capscrew, Hx., 3/8"-16 × 1"	41	37368X	2	Clamp
5	P04609	14	Lockwasher, M12	42	P01659	2	Lock Nut, Hx,. 7/16"-14 (Nylon Insert)
6	P04203	6	Capscrew, Hx., M12-1.75 × 30mm	43	P01662	2	Lock Nut, Hx,. 5/8"-11 (Nylon Insert)
7	P00641	2	Capscrew, Hx., 5/8"-11 × 4" GR 8	44	67129A-112	1	Hose, Fuel Return 5/16" × 112"
8	67514A	2	Washer, Rebound 5/8"	45	67714A	1	Cap, Fuel Tank
9	P04205	8	Capscrew, Hx., M12-1.75 × 40mm	46	P02077	6	Screw,. #10-32 × 3/8"
10	P00205	4	Capscrew, Hx., 3/8"-16 × 1 1/4"	47	68970B	1	Neck, Fill
11	P01277	4	Flatwasher, 3/8"	48	68971A	1	Gasket
12	68969B	2	Engine Mount, Rubber, Front	49	P04608	11	Lockwasher, M10
13	67188B	1	Engine Mount, Cummins, Left Rear	50	P04154	11	Capscrew, Hx., M10-1.5 × 30mm
14	67130A-3	1	Hose, Fuel 3/8" × 3"	51	68233X	1	Torque Converter
15	P00342	2	Capscrew, Hx., 7/16"-14 × 4 1/2" GR 8	52	37075X	1	Kit, Drive Plate
16	67513A	2	Washer, Rebound 7/16"	53	68092X	1	Drive Plate Backing Ring
17	67190B	1	Engine Mount, Cummins, Left Front	54	P20538	6	Lockwasher
18	P28874	1	Adapter, 90° 3/8" Barb	55	68091X	6	Capscrew
19	68094X	1	Spacer, Fan 1/4"	56	66109X	1	Filter, Fuel
20	68093X	1	Spacer, Fan 1 1/2"				
21	66113X	1	Fan, 18" Suction				
22	P04630	4	Flatwasher, M8				
23	P04113	4	Capscrew, Hx., M8-1.25 × 70mm CL 8.8				
24	67191B	1	Engine Mount, Cummins, Right Front				
25	P31295	REF	Oil Filter				
26	67189B	1	Engine Mount, Cummins, Right Rear				
27	10715446	1	Plug, Adapter, SAE 1"				
28	67718A	2	Adapter, 90°				
29	P14047	8	Clamp, Hose, 3/8"	~			
30	P00284	8	Capscrew, Hx., 3/8"-24 × 1 3/4" GR 8				
31	P01252	8	Flatwasher, 3/8"				
32	67130A-99	1	Hose, Fuel 3/8" × 99"				
33	37652X	1	Tee, Union Hose				
34	P00400	1	Capscrew, Hx., 1/2"-13 × 3/4"				
35	P01312	1	Lockwasher, 1/2"				
36	67534X	1	Adapter, Barbed	S			
37	P17989	A/R	Cable Tie	644D-3	34 S/N 780-		

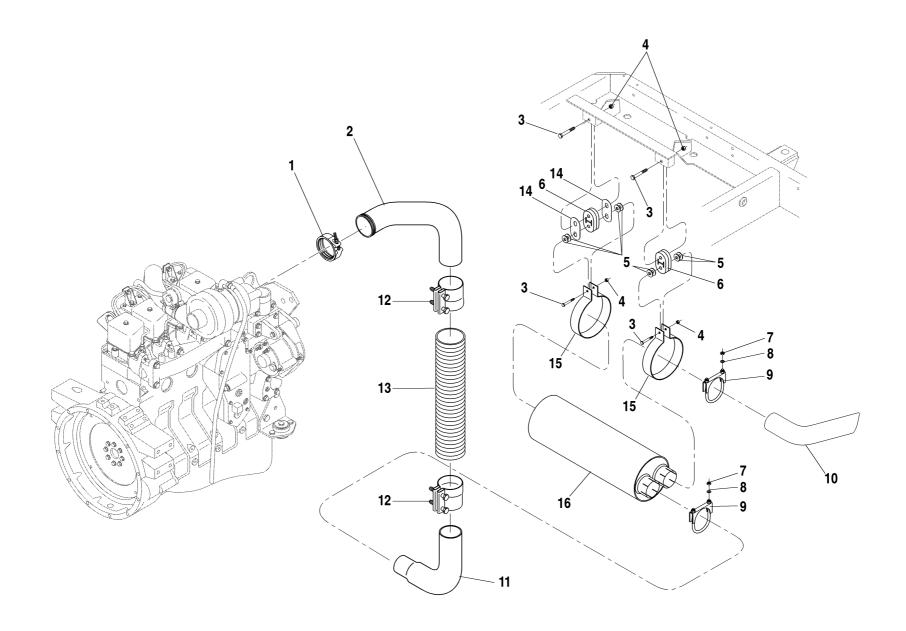
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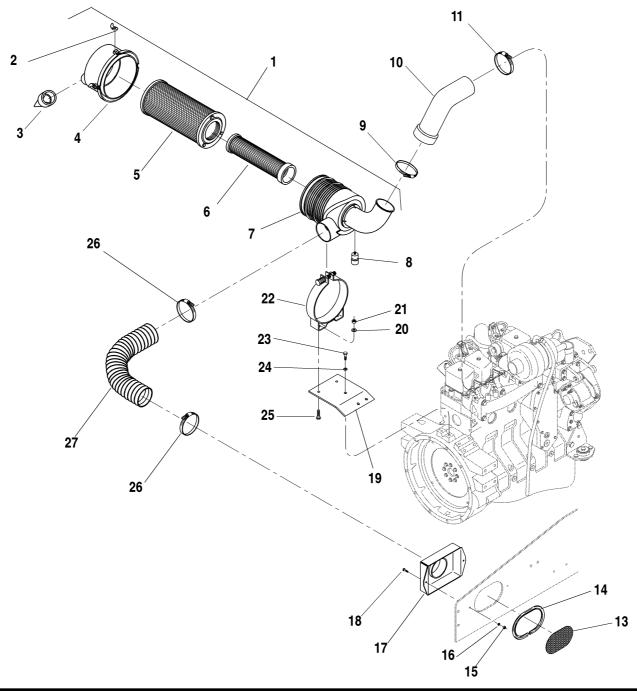
ITEM	PART NO.	QTY.	DESCRIPTION		
1	P32986	1	Clamp, Exhaust, Turbo		Rev. 00
2	P01359	2	Starwasher, External, 3/8"		
3	P01558	2	Nut, Jam 3/8"-16		
4	P01508	2	Nut, Hx., 3/8"-16		
5	67420B	1	Support, Exhaust Pipe		
6	P04609	2	Lockwasher, M12		
7	P04205	2	Capscrew, Hx., M12-1.75 × 40mm		
8	P17169	1	Clamp, Exhaust 3" ID		
9	67279B	1	Pipe, Exhaust, Engine to Muffler		
10	37799X	1	Muffler		
11	P12169	2	Clamp, Exhaust 2 1/2" ID		
12	P00158	4	Capscrew, Hx., 5/16"-24 × 2.0 Gr 5		
13	P01434	8	Flatwasher, 5/16"		
14	65486B	2	Hanger, Muffler, 6.63" Dia		
15	39922A	4	Link, Exhaust Hanger		
16	P32982	2	Hanger, Rubber Exhaust		
17 18	P01680 67795A	4 1	Lock nut, 5/16"-24 Tailpipe, 2 1/2"		
				644D-34 S/N 108–203	
				3712 37 3/11 100 200	
1					1



ITEM	PART NO.	QTY.	DESCRIPTION		
1	P00209	1	Capscrew, Hx., 3/8"-16x 2 1/4"		Rev. 0
2	P01404	4	Flatwasher, 3/8"		
3	1100010	2	Hanger, Muffler		
4	P04609	2	Lockwasher, M12		
5	P04207	2	Capscrew, Hx., M12-1.75 × 50mm 8.8		
6	68749B	1	Bracket, Muffler Hanger		
7	P01508	4	Nut, Hx., 3/8"-16		
8	P12169	2	Clamp, Exhaust 2 1/2" ID		
9	67795A	1	Tailpipe, 2 1/2"		
10	P17169	1	Clamp, Exhaust 3" ID		
11	67279B	1	Pipe, Exhaust, Engine to Muffler		
12	37799X	1	Muffler		
13	P00205	1	Capscrew, Hx., 3/8"-16× 1 1/4"		
14	P32986	1	Clamp, Exhaust, Turbo		
15	P01558	2	Nut, Jam 3/8"-16		
16	P01359	2	Starwasher, External, 3/8"		
17	67420B	1	Support, Exhaust Pipe		
				644D-34 S/N 204–680	•
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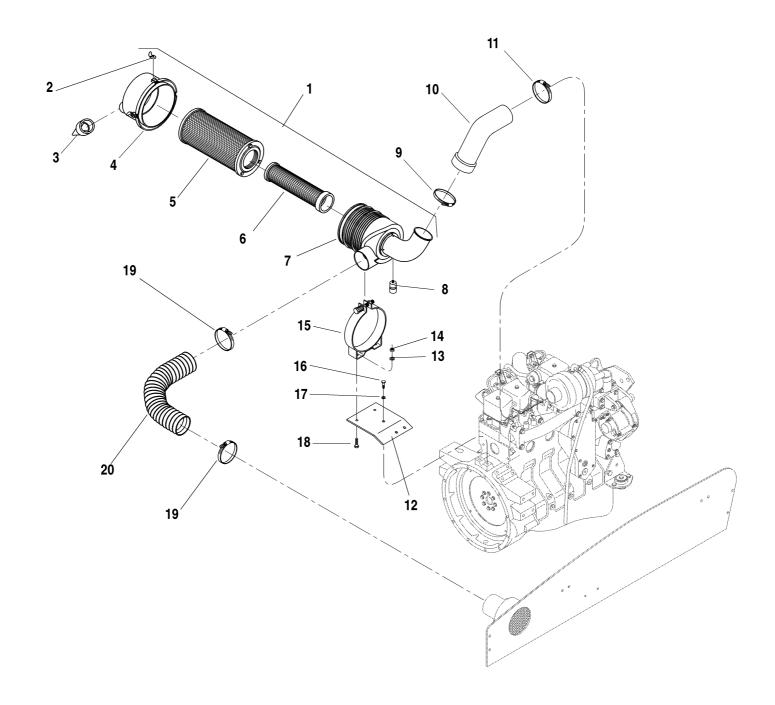


ITEM	PART NO.	QTY.	DESCRIPTION		
1	10732986	1	Clamp, Exhaust, Turbo		Rev. 001
2	1100196	1	Pipe, Exhaust, Upper		
3	10700158	4	Capscrew, Hx., 5/16"-24× 2"		
4	10701680	4	Locknut, Hx., 5/16"-24		
5	10701434	8	Flatwasher, 5/16"		
6	10732982	2	Hanger, Rubber Exhaust		
7	10701558	2	Nut, Jam 3/8"-16		
8	10701359	2	Starwasher, External, 3/8"		
9	1100119	2	Clamp, Exhaust		
10	10167795	1	Tailpipe, 2 1/2"		
11	1100197	1	Pipe, Exhaust, Lower		
12	10733144	2	Clamp, Seal		
13	1100124	1	Exhaust Pipe, Flexibile		
14	10139922	2	Link, Exhaust Hanger		
15	10265486	2	Hanger, Muffler		
16	10837799	1	Muffler		
				644D-34 S/N 681–	

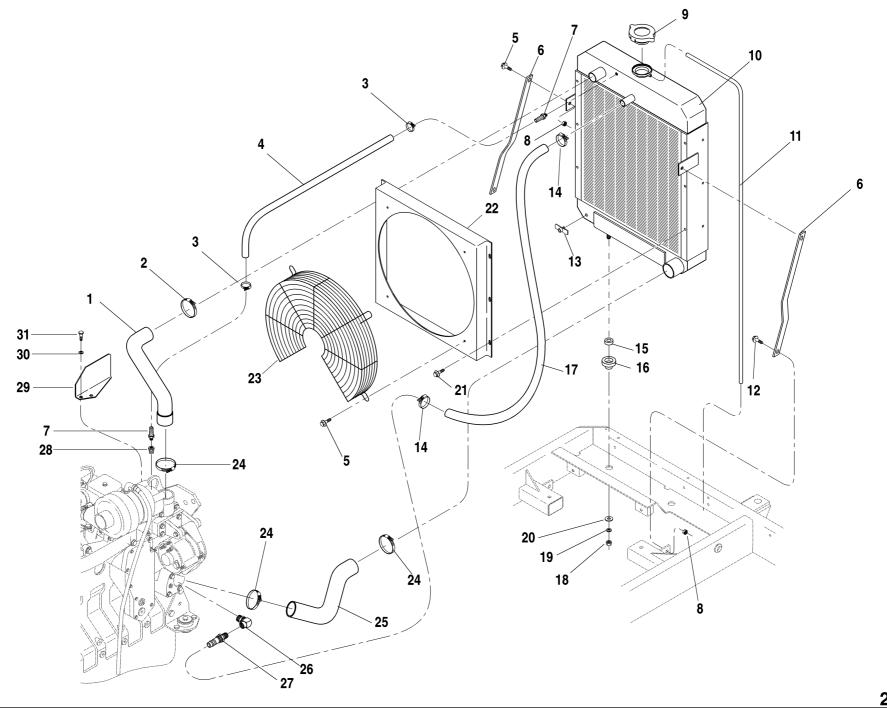


02A-3002 Rev. 000

ITEM	PART NO.	QTY.	DESCRIPTION		7 Dov. 00
1	67503D	1	Air Cleaner (Includes Items 2-7)		Rev. 00
2	P33184	3	Latch		
3	P33183	1	Vacuator Valve		
4	P33182	1	Cover (Includes Item 2)		
5	P33180	1	Filter Element, Primary		
6	P33181	1	Filter Element, Secondary		
7	N.S.S.	-	Body		
8	67537X	1	Switch, Vacuum		
9	67198X	1	Clamp, T-Bolt		
10	67186B	1	Tube, Air Intake		
11	67197X	1	Clamp, T-Bolt		
12	67186X	1	Elbow, Rubber		
13	67511X	1	Seal		
14	67470A	1	Guard Air Intake		
15	P01506	2	Nut, Hx,. 1/4"-20		
16	P01308	2	Lockwasher, 1/4"		
17	67444B	1	Duct, Air Intake		
18	P00003	2	Capscrew, Hx., $1/4$ "-20 × $3/4$ "		
19	67185B	1	Bracket, Air Cleaner Mounting		
20	P01309	2	Lockwasher, 5/16"		
21	P01507	2	Nut, Hx, 5/16"-18		
22	P33142	1	Band, Mounting		
23	P00204	3	Capscrew, Hx., 3/8"-16 × 1"		
24	P01310	3	Lockwasher, 3/8"		
25	P00104	2	Capscrew, Hx., 5/16"-18 × 1"		
26	P11124	2	Hose Clamp		
27	10167195	1	Hose, Air Cleaner		
				644D-34 S/N 108–276	†
				O/N 100~270	-
					_
1					

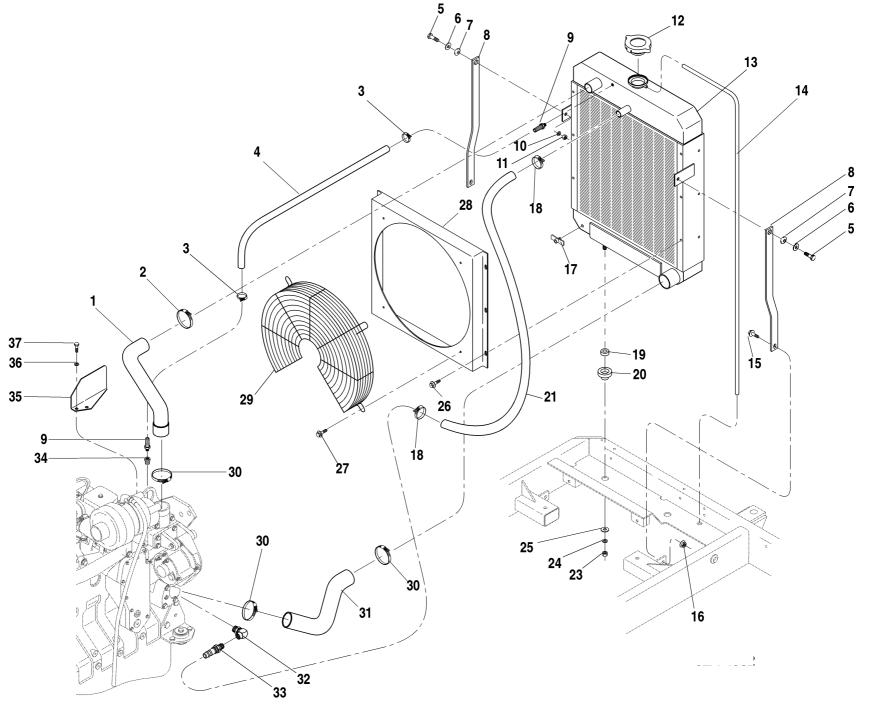


ITEM	PART NO.	QTY.	DESCRIPTION		- D
1	67503D	1	Air Cleaner (Includes Items 2-7)		Rev. 000
2	P33184	3	Latch		
3	P33183	1	Vacuator Valve		
4	P33182	1	Cover (Includes Item 2)		
5	P33180	1	Filter Element, Primary		
6	P33181	1	Filter Element, Secondary		
7	N.S.S.	-	Body		
8	67537X	1	Switch, Vacuum		
9	67198X	1	Clamp, T-Bolt		
10	67186B	1	Tube, Air Intake		
11	67197X	1	Clamp, T-Bolt		
12	67185B	1	Bracket, Air Cleaner Mounting		
13	P01309	2	Lockwasher, 5/16"		
14	P01507	2	Nut, Hx, 5/16"-18		
15	P33142	1	Band, Mounting		
16	P00204	3	Capscrew, Hx., 3/8"-16 × 1"		
17	P01310	3	Lockwasher, 3/8"		
18	P00104	2	Capscrew, Hx., $5/16$ "- 18×1 "		
19	P11124	2	Hose Clamp		
20	10167195	1	Hose, Air Cleaner		
				644D-34 S/N 277–	7
					_
1					1

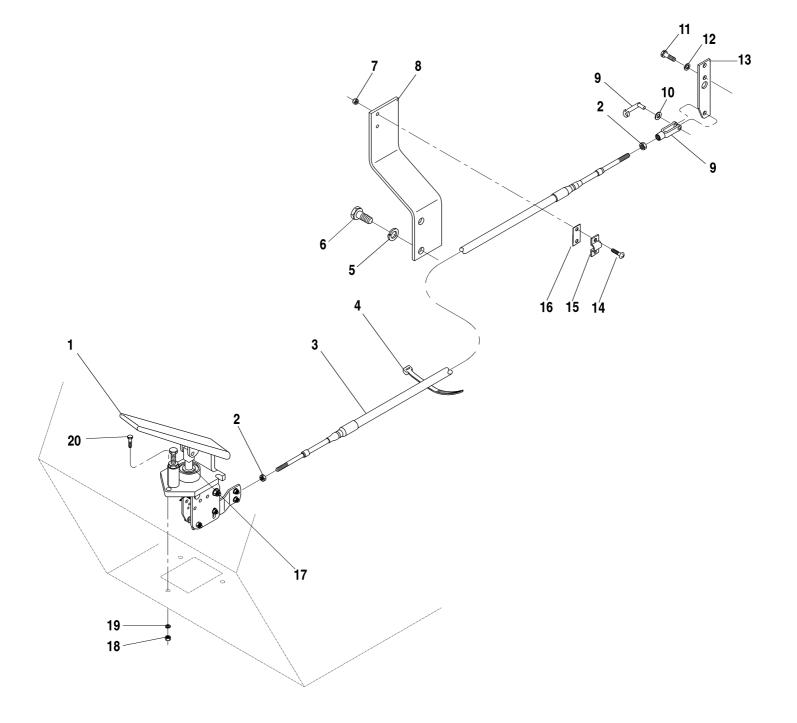


Rev 004

ITEM	PART NO.	QTY.	DESCRIPTION		
1	67488B	1	Hose, Radiator - Upper		Rev. 00
2	P14043	1	Hose Clamp, 1" × 2"		
3	P14047	2	Hose Clamp, 3/8"		
4	67127A-12	1	Hose, 3/16 × 12"		
5	P05322	6	Capscrew, Flg Hd., 3/8"-16 × 3/4"		
6	67419A	2	Support, Upper Radiator		
7	67530X	2	Adapter, 1/8MP-3/8" Barb		
8	P01658	4	Locknut, Hx, 3/8"-16		
9	68090X	1	Cap, Radiator 10 P.S.I.		
10	67233C	1	Radiator		
11	36504X	1	Hose, Over Flow 5/16" × 44"		
12	P05343	2	Capscrew, Flg Hd., $3/8$ "- $16 \times 7/8$ "		
13	P16675	1	Petcock, Drain		
14	P10178	2	Clamp, Hose, 1"		
15	P24305	2	Bushing		
16	P24306	2	Grommet, Rubber 3/8" ID		
17	67672A	1	Hose, 1" I.D. × 30"		
18	P01510	2	Nut, Hx, 1/2"-13		
19	P01312	2	Lockwasher, 1/2"		
20	P01406	2	Flatwasher, 1/2"		
21	P05320	6	Capscrew, Flg Hd., 5/16"-18 × 1/2"		
22	67297B	1	Shroud, Fan		
23	10238470	1	Guard,Fan		
24	P10601	3	Hose Clamp, 1 3/4" × 2 3/4"		
25	67489B	1	Hose, Radiator - Lower		
26	67515X	1	Adapter, 8MP-12FP90		
27	67517X	1	Adapter. 12MP-16 Hose		
28	67529X	1	Bushing, Reducer, 1/2MP-1/8MP		
29	67421A	1	Heat Shield		
30	P04608	2	Lockwsaher, M10		
31	P04152	2	Capscrew, Hx., M10-1.5 × 20mm		
				644D-34 S/N 108–856	



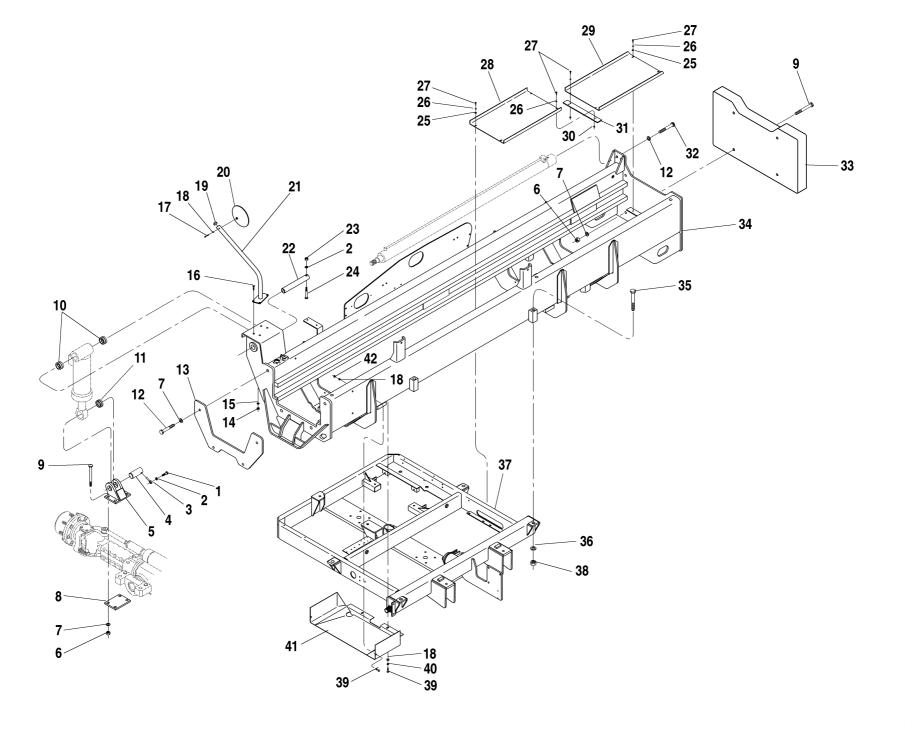
TEM	PART NO.	QTY.	DESCRIPTION	
1	67488B	1	Hose, Radiator - Upper	
2	P14043	1	Hose Clamp, 1" × 2"	
3	P14047	2	Hose Clamp, 3/8"	
4	67127A-12	1	Hose, 3/16 × 12"	
5	10700205	2	Capscrew 3/8"-16 × 1 1/4"	
6	10701404	2	Washer, Flat 3/8"	
7	10718723	2	Grommet, Rubber	
8	1100553	2	Support, Upper Radiator	
9	67530X	2	Adapter, 1/8MP-3/8" Barb	
10	10701312	2	Washer, Lock, 3/8"	
11	P01508	2	Nut, Hx, 3/8"-16	
12	68090X	1	Cap, Radiator 10 P.S.I.	
13	67233C	1	Radiator	
14	36504X	1	Hose, Over Flow 5/16" × 44"	
15	10705342	2	Capscrew, Flg Hd., $3/8$ "- $16 \times 7/8$ "	
16	10701658	2	Locknut., 3/8"-16	
17	P16675	1	Petcock, Drain	
18	P10178	2	Clamp, Hose, 1"	
19	P24305	2	Bushing	
20	P24306	2	Grommet, Rubber 3/8" ID	
21	67672A	1	Hose, 1" I.D. × 30"	
22	10701406	2	Washer, Flat, 3/8"	
23	P01510	2	Nut, Hx, 1/2"-13	
24	P01312	2	Lockwasher, 1/2"	
25	P01406	2	Flatwasher, 1/2"	
26	P05320	6	Capscrew, Flg Hd., 5/16"-18 × 1/2"	
27	10705322	4	Capscrew, Flg Hd., 5/16"-18 × 3/4"	
28	67297B	1	Shroud, Fan	
29	10238470	1	Guard,Fan	
30	P10601	3	Hose Clamp, 1 3/4" × 2 3/4"	
31	67489B	1	Hose, Radiator - Lower	
32	67515X	1	Adapter, 8MP-12FP90	
33	67517X	1	Adapter. 12MP-16 Hose	
34	67529X	1	Bushing, Reducer, 1/2MP-1/8MP	644D-34 S/N 857–
35	67421A	1	Heat Shield	
36	P04608	2	Lockwsaher, M10	
37	P04152	2	Capscrew, Hx., M10-1.5 × 20mm	



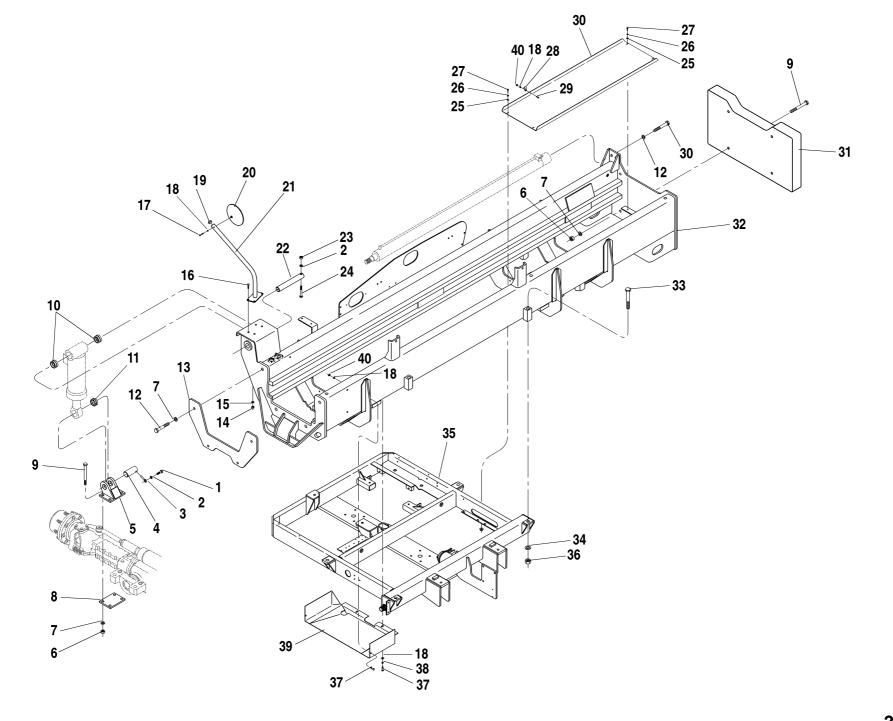
ITEM	PART NO.	QTY.	DESCRIPTION		
1	37378X	1	Accelerator Pedal (Includes Item 21)		Rev. 000
2	P01529	2	Nut, Hx., 1/4"-28		
3	37760X	1	Cable, Throttle - 120" Long		
4	P20496	4	Cable Tie		
5	P04203	2	Capscrew, Hx., M12-1.75 × 30mm 8.8		
6	P04609	2	Lockwasher, M12		
7	P01654	2	Nut, Nylock #10-24		
8	67187B	1	Bracket, Throttle Cable		
9	38818A	1	Yoke end w/ Spring Pin		
10	65906A	1	Spacer		
11	P04053	2	Capscrew, Hx., M6-1 × 16mm		
12	P04606	2	Lockwasher, M6		
13	65925A	1	Extension Throttle Lever		
14	P01733	2	Capscrew, Hx., #10-24 × 3/4"		
15	14383A	1	Clamp, Cable		
16	16401A	1	Shim, Cable Clamp		
17	P20069	1	Bellows		
18	P01506	3	Nut, Hx., 1/4"-20		
19	P01308	3	Lockwasher, 1/4"		
20	P00006	3	Capscrew, Hx., 1/4"-20 × 1 1/4"		
				644D-34 S/N 108–	7

Section 3 —	- Frame and	Operator's	Compartment
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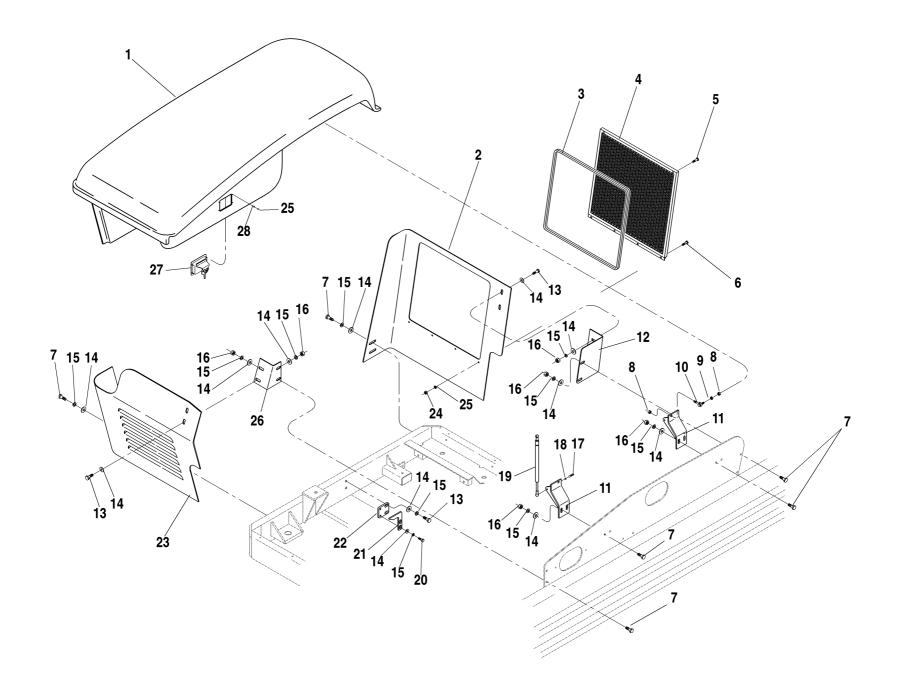
Main Frame Assembly	3.1.1
Engine Cowel Assembly	3.2.1
Operator's Compartment Assembly	3.3.1
Instrument Panel Assembly	3.4.1
Steer Column Assembly	3.5.1
Fender Assembly	3.6.1



ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION	
1	P00403	1	Capscrew, Hx., 1/2"-13 × 1 1/4"	38	P01209	4	Nut, Hx 1"-8 GRD 8	Rev. 00
2	P01312	2	Lockwasher, 1/2"	39	P00104	4	Capscrew, Hx., 5/16"-18 × 1"	
3	34178A	1	Lock Pin	40	P01403	2	Flatwasher, 5/16"	
4	65601A	1	Pin, Frame Tilt Cylinder - Lower	41	67694C	1	Guard, Filter	
5	65558B	1	Mount, Frame Tilt Cylinder	42	P01507	2	Nut Hx., 5/16"-18	
6	P01315	14	Nut, Hx., 3/4"-10 GR C					
7	P01315	12	Lockwasher, 3/4"					
8	65561A	1	Plate, Frame Tilt Support Ear Hose Guard, Cab					
9	P00742	8	Capscrew, Hx., 3/4"-10 × 7 1/2" GR 8					
10	16228A	2	Bushing, Cylinder					
11	21665A	1	Bushing, Cylinder					
12	P00706	4	Capscrew, Hx., 3/4"-10 × 3"					
13	65462B	1	Plate, Front, Upper Frame Assembly					
14	P01508	4	Nut, Hx., 3/8"-16					
15	P01310	4	Lockwasher, 3/8"					
16	P00205	4	Capscrew, Hx., 3/8"-16 × 1 /14"					
17	P00107	1	Capscrew, Hx., 5/16"-16 × 1 3/4"					
18	P01309	4	Lockwasher, 5/16"					
19	69129X	1	Plug, End Cap					
20	P32579	1	Mirror, Convex					
21	67705B	1	Bracket, Mirror					
22	24732A	1	Pin, Frame Tilt Cylinder - Upper					
23	P01510	1	Nut, Hx., 1/2"-13					
24	P00414	1	Capscrew, Hx., 1/2"-13 × 4"					
25	P01402	8	Flatwasher, 1/4"					
26	P01308	8	Lockwasher, 1/4"					
27	P03196	8	Capscrew, Button Hd. Socket, 1/4"-20 × 3/4"					
28	65570A	1	Hose Tray, Front					
29	65800A	1	Hose Tray, Rear					
30	P01506	4	Nut, Hx., 1/4"-20					
31	65801A	1	Mount, Hose Tray					
32	P00753	2	Capscrew, Hx., 3/4"-16 × 2 1/2"					
33	67703B	1	Counterweight			_		
34	65422D	1	Frame, Upper	644D-3	34 S/N 108–57	7		
35	P00941	4	Capscrew, Hx., 1"-8 × 7"					
36	P01259	4	Flatwasher, 1" SAE					
37	66478D	1	Frame, Lower					

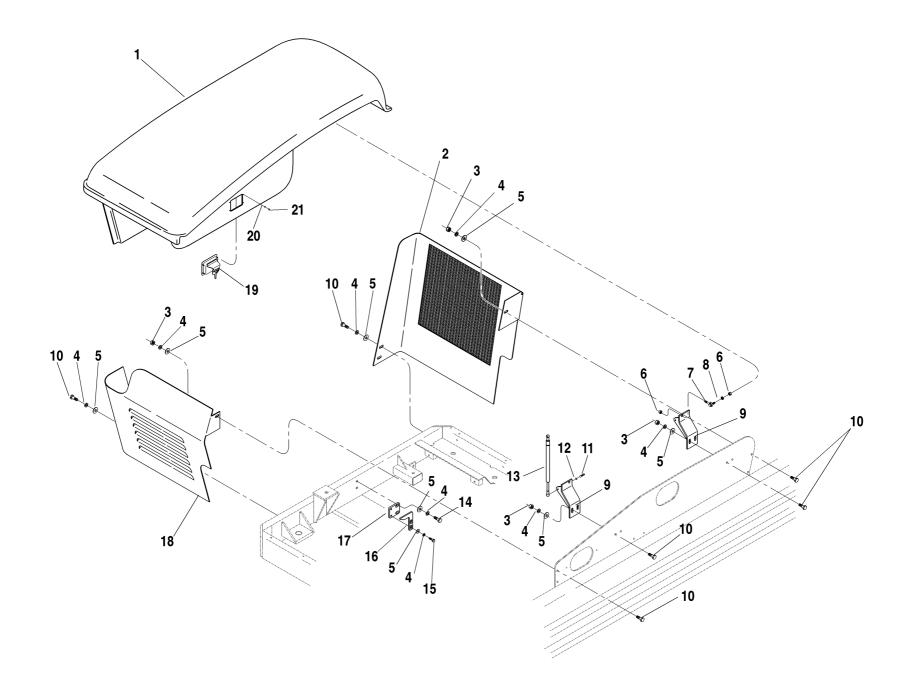


ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION	
1	P00403	1	Capscrew, Hx., 1/2"-13 × 1 1/4"	38	P01403	2	Flatwasher, 5/16"	Rev. 000
2	P01312	2	Lockwasher, 1/2"	39	67694C	1	Guard, Filter	
3	34178A	1	Lock Pin	40	P01507	2	Nut Hx., 5/16"-18	
4	65601A	1	Pin, Frame Tilt Cylinder - Lower					
5	65558B	1	Mount, Frame Tilt Cylinder					
6	P01315	14	Nut, Hx., 3/4"-10 GR C					
7	P01315	12	Lockwasher, 3/4"					
8	65561A	1	Plate, Frame Tilt Support Ear Hose Guard, Cab					
9	P00742	8	Capscrew, Hx., 3/4"-10 × 7 1/2" GR 8					
10	16228A	2	Bushing, Cylinder					
11	21665A	1	Bushing, Cylinder					
12	P00706	4	Capscrew, Hx., 3/4"-10 × 3"					
13	65462B	1	Plate, Front, Upper Frame Assembly	•				
14	P01508	4	Nut, Hx., 3/8"-16					
15	P01310	4	Lockwasher, 3/8"					
16	P00205	4	Capscrew, Hx., 3/8"-16 × 1 /14"					
17	P00107	1	Capscrew, Hx., 5/16"-18 × 1 3/4"	•				
18	P01309	4	Lockwasher, 5/16"					
19	69129X	1	Plug, End Cap					
20	P32579	1	Mirror, Convex					
21	67705B	1	Bracket, Mirror					
22	24732A	1	Pin, Frame Tilt Cylinder - Upper					
23	P01510	1	Nut, Hx., 1/2"-13					
24	P00414	1	Capscrew, Hx., 1/2"-13 × 4"					
25	P01402	4	Flatwasher, 1/4"	-				
26	P01308	4	Lockwasher, 1/4"					
27	P03196	4	Capscrew, Button Hd. Socket, 1/4"-20 × 3/4"					
28	37368X	1	Hose Clamp, Double					
29	P27829	1	MS, Truss Hd., Phillips, 5/16"x3/4"					
30	P00753	2	Capscrew, Hx., 3/4"-16 × 2 1/2"					
31	67703B	1	Counterweight					
32	65422D	1	Frame, Upper					
33	P00941	4	Capscrew, Hx., 1"-8 × 7"	0412 1	24.0/11.550			
34	P01259	4	Flatwasher, 1" SAE	644D-3	34 S/N 578–			
35	66478D	1	Frame, Lower					
36	P01209	4	Nut, Hx 1"-8 GRD 8					
37	P00104	4	Capscrew, Hx., 5/16"-18 × 1"					



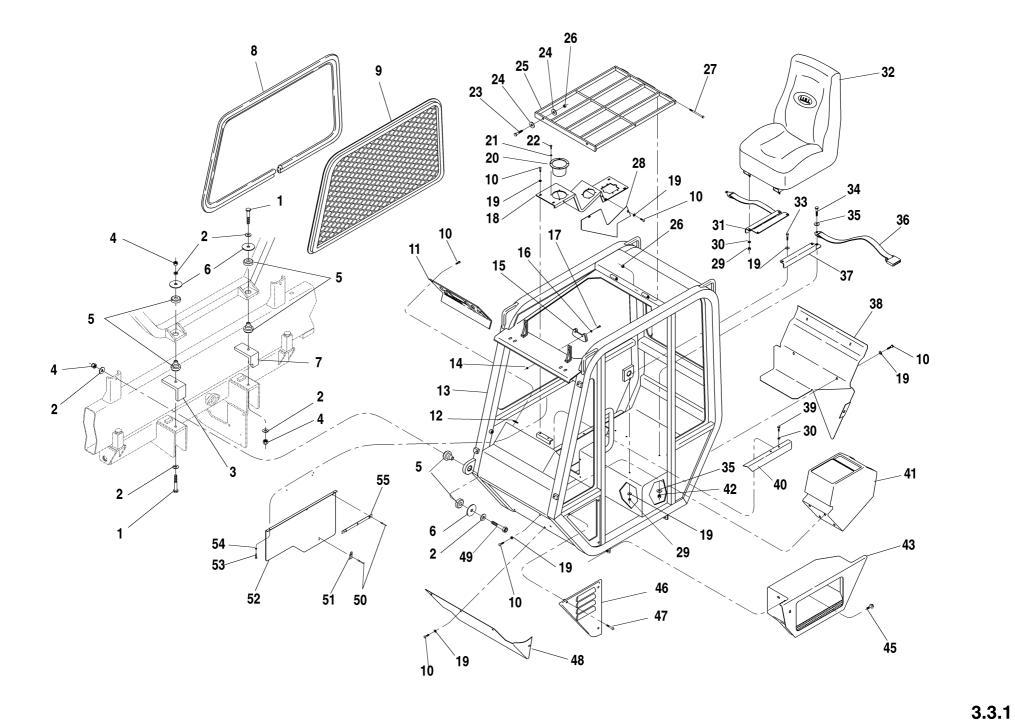
03A-5001 Rev. 00

ITEM	PART NO.	QTY.	DESCRIPTION	
1	67144D	1	Hood, Fiberglass	
2	67148D	1	Engine Compartment Rear Panel	
3	67184X	1	Door Seal	
4	67376C	1	Rear Grille	
5	P00007	2	Capscrew, Hx., 1/4"-20 × 1 1/2"	
6	P00001	5	Capscrew, Hx., 1/4"-20 × 1/2"	
7	P00205	12	Capscrew, Hx., 3/8-16 × 1 1/4"	
8	P01681	4	LockNut, Hx., 3/8"-16 (Nylock)	
9	P01584	2	JamNut, Hx., 3/8"-16	
10	67547X	2	Rodend	
11	67731B	2	Mounting Bracket, Hinge	
12	67857B	1	Mounting Bracket, Rear Panel	
13	P00204	4	Capscrew, Hx., 3/8-16 × 1"	
14	P01404	24	Flatwasher, 3/8"	
15	P01310	20	Lockwasher, 3/8"	
16	P01508	12	Nut, Hx., 3/8"-16	
17	66148X	4	Stud, Ball	
18	66149X	4	Clip Retaining	
19	67554X	2	Gas Spring	
20	P00202	2	Capscrew, Hx., 3/8-16 × 3/4"	
21	67863B	1	Catch, Latch	
22	67890A	1	Mount, Latch Catch	
23	67364D	1	Cover, Front Engine	
24	P01528	4	Nut, Hx,. #10-24	
25	P01306	4	Lockwasher, #10	
26	67856B	1	Mounting Bracket, Front Louver	
27	67556X	1	Latch	
28	P01355	4	Starwasher, #10	
				644D-34 S/N 108–619



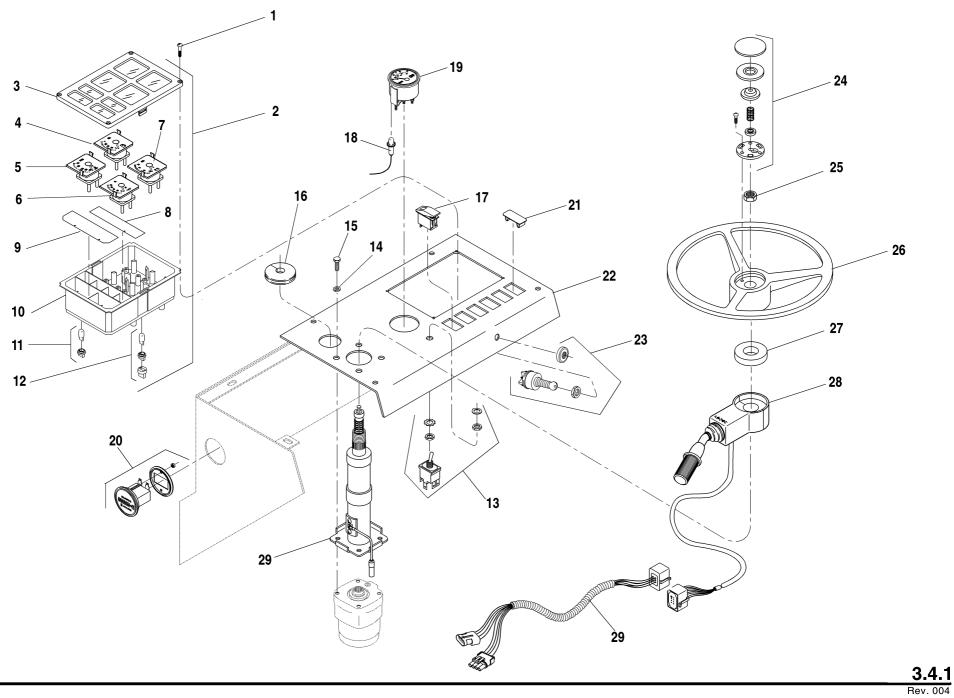
03A-5001

ITEM	PART NO.	QTY.	DESCRIPTION	
1	67144D	1	Hood, Fiberglass	Rev. 00
2	1100009	1	Engine Compartment Rear Panel	
3	P01508	12	Nut, Hx., 3/8"-16	
4	P01310	12	Lockwasher, 3/8"	
5	P01404	12	Flatwasher, 3/8"	
6	P01681	4	LockNut, Hx., 3/8"-16 (Nylock)	
7	67547X	2	Rodend	
8	P01584	2	JamNut, Hx., 3/8"-16	
9	67731B	2	●Mounting Bracket, Hinge	
10	P00205	8	Capscrew, Hx., 3/8-16 × 1 1/4"	
11	66148X	4	Stud, Ball	
12	66149X	4	Clip Retaining	
13	67554X	2	Gas Spring	
14	P00202	2	Capscrew, Hx., 3/8-16 × 3/4"	
15	P00204	2	Capscrew, Hx., 3/8-16 × 1"	
16	67863B	1	Catch, Latch	
17	67890A	1	Mount, Latch Catch	
18	10469132	1	Cover, Front Engine	
19	67556X	1	Latch	
20	P01355	4	Stawasher, #10	
21	P01528	4	Nut, Hx,. #10-24	
NOTE		N 703 aı	nd after the hinge mounting brackets are welded on.	644D-34 S/N 220-
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Rev. 001

TEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	P01929	2	Capscrew, Hx., 5/8"-18 × 5 1/2" GR8		O P25464	-	Seat Belt - 3" Wide
2	P01256	9	Flatwasher, Hardened., 5/8"	37	65862B	1	Seat Mount, Left
3	68850A	1	Stop Block, Angle	38	65907C	1	Cover, Rear
4	P06083	4	Lock Nut, Hx., 5/8"-18(Nylock)	39	P03209	2	Capscrew, Button Hd. Socket, 5/16"-18 x 1/2"
5	P33152	4	Rubber Mount, Two Piece	40	67747B	1	Guard, Cable and Hose
6	36262A	4	Snubbing Washer	41	38246B	1	Storage Box
7	68851A	1	Stop Block, Angle	42	P05003	2	Locknut, Hx., 7/16"-14
8	N12354	1	Rubber Locking Channel	43	65894B	1	Step, Operator's
9	39390C	1	Screen Slide	44	P00202	4	Capscrew, Hx., 3/8"-16 × 3/4"
10	P27829	24	Screw, Phillips Truss Hd., 5/16"-18 × 3/4"	45	P01310	4	Lockwasher, 3/8"
11	65545B	1	Instrument Panel	46	36849B	1	Cover, Side
12	P20459	4	Speed Nut	47	37113X	3	Screw, Phillips Truss Hd., 5/16"-18 × 1 1/2"
13	67266E	1	Operator's Compartment	48	36958B	1	Cover, Front
14	P01653	2	Locknut, Hx., #8-32	49	P00642	2	Capscrew, Hx., 5/8"-11 × 4 1/2" GR8
15	P28470	1	Level Indicator	50	P32958	4	Pop-Rivet, Aluminum, 1/8" Dia. x.337" Long
16	P01327	2	Flatwasher, #8 SAE	51	37364X	1	Holder, Flip Card
17	P02034	2	Screw, Slotted Rd. Hd., #8-32 × 1/2"	52	@ 36542B	1	Mounting Plate, Decal
18	66290C	1	Control Panel	53	@ P00001	2	Capscrew, Hx., 1/4"-20 × 1/2"
19	P01403	20	Flatwasher, 5/16"	54	@ P01308	2	Lockwasher, 1/4"
20	38316A	1	Cup Holder	55	38718A	1	3-Ring Hanger, Flip Card
21	P01357	4	Starwasher, 1/4" External				
22	P03196	4	Capscrew, Button Hd, Socket,. 1/4"-20 × 3/4"				
23	P00234	2	Capscrew, Hx., 3/8"-16 × 1 3/4" GR 8		_		
24	P01404	4	Flatwasher, 3/8"	NOTE			
25	36887C	1	Overhead Guard		Required in Ca		placed Cab Only
26	P01658	4	Locknut, Hx., 3/8"-16	9	osea with Opti	onai End	closed Cab Only.
27	P00245	2	Capscrew, Hx., 3/8"-16 × 5" GR 8				
28	36436B	1	Side Cover, Control Panel				
29	P01507	6	Nut, Hx., 5/16"-18				
30	P01309	6	Lockwasher, 5/16"				
31	65863B	1	Sea Mount, Right				
32	36478C	1	Seat, Operator's				
	38383C	-	Suspension Seat, Operator's (Optional)				
33	P00102	4	Capscrew, Hx., 5/16"-18 × 3/4"	644D-3	34 S/N 108–		
34	P00102	2	Capscrew, Hx., 7/16"-14 × 1 1/4"	***************************************			
35	P01405	4	Flatwasher, 7/16"				
36	39367B	1	Seat Belt - 2" Wide				



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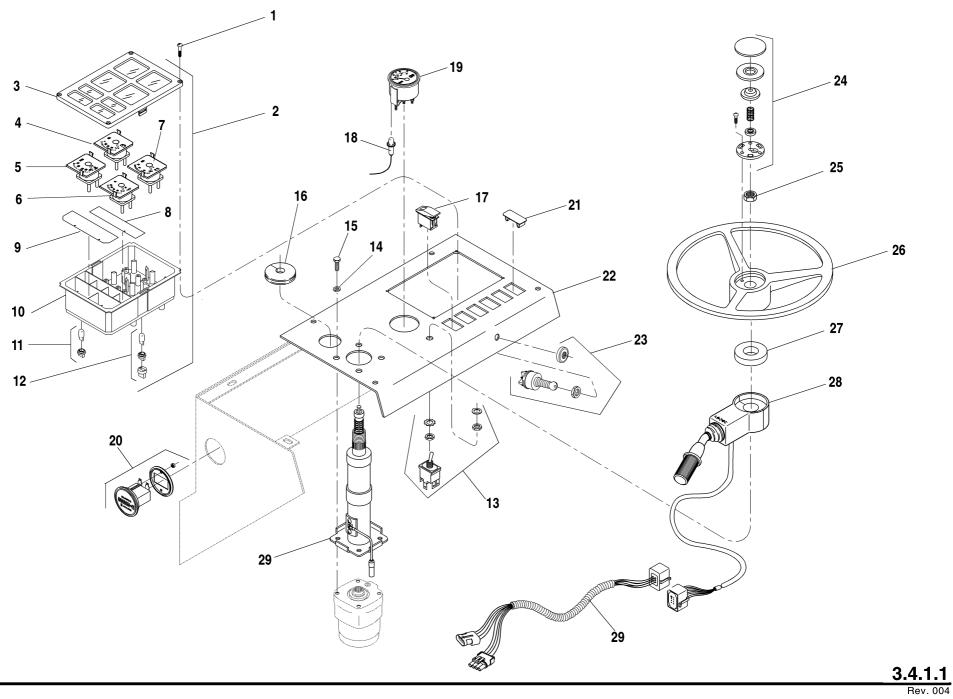
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ITEM	PART NO.	QTY.	DESCRIPTION
1	P02057	4	Screw, Slotted Rd. Hd., #10-24 × 3/4"
2	36830B	1	Cluster Gauge (Includes Items 3–12)
3	37330X	1	Bezel
4	37331X	1	Gauge, Fuel
5	37332X	1	Gauge, Water Temperature
6	37333X	1	Gauge, Oil Pressure
7	37334X	1	Gauge, Voltmeter
8	38222B	1	Lens, Diff Lock, "Park Brake" and "Brake"
9	38221B	1	Lens, "Rear Osc Lock"
10	N.S.S.	1	Body, Cluster Gauge
11	37328X	6	Light Socket (with G.E. #194 Lamp)
12	37329X	2	Light Socket (with G.E. #168 Lamp)
13	67524X	1	Switch, Parking Switch
14	P01310	4	Lockwasher, 3/8"
15	P00205	4	Capscrew, Hx., 3/8"-16 × 1 1/4"
16	P32575	1	Grommet
17	38094A	1	Switch, Rocker (Transmission Declutch)
18	38462A	1	Light Source
19	36805X	1	Gauge, Transmission Oil Temp
20	36804X	1	Gauge, Hourmeter
21	36512X	5	Plug, Hole
22	65545B	1	Instrument Panel
23	P11092	1	Switch, Ignition
REF	P32926	-	Key
24	P18141	1	Horn Button
25	P13009	1	Nut, Steering
26	P28704	1	Steering Wheel
27	34667A	1	Mounting Pad, Rubber
28	10267224	1	Shift Control, Electric
29	P33122	1	Steering Column
30	0 68410B	1	Harness, Jumper, Shifter
			N.S.S. = Not Sold Separately

NOTES:

• Used S/N 108–612. Not Required when ordering a new Shift Control (item 28).

644D-34 S/N 108-1279



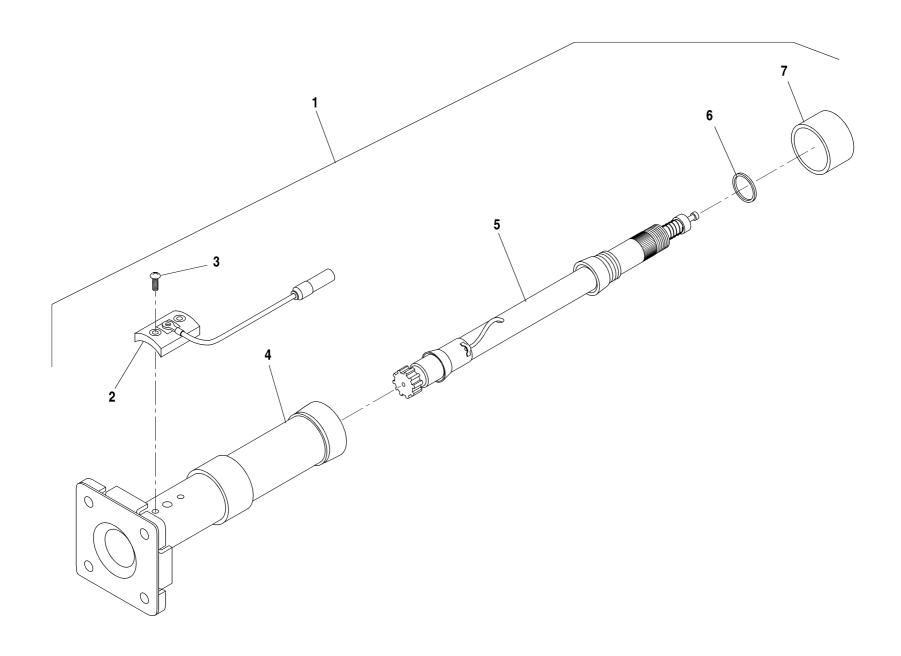
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ITEM	PART NO.	QTY.	DESCRIPTION
1	P02057	4	Screw, Slotted Rd. Hd., #10-24 × 3/4"
2	36830B	1	Cluster Gauge (Includes Items 3–12)
3	37330X	1	Bezel
4	37331X	1	Gauge, Fuel
5	37332X	1	Gauge, Water Temperature
6	37333X	1	Gauge, Oil Pressure
7	37334X	1	Gauge, Voltmeter
8	38222B	1	Lens, Diff Lock, "Park Brake" and "Brake"
9	38221B	1	Lens, "Rear Osc Lock"
10	N.S.S.	1	Body, Cluster Gauge
11	37328X	6	Light Socket (with G.E. #194 Lamp)
12	37329X	2	Light Socket (with G.E. #168 Lamp)
13	67524X	1	Switch, Parking Switch
14	P01310	4	Lockwasher, 3/8"
15	P00205	4	Capscrew, Hx., 3/8"-16 × 1 1/4"
16	P32575	1	Grommet
17	38094A	1	Switch, Rocker (Transmission Declutch)
18	38462A	1	Light Source
19	36805X	1	Gauge, Transmission Oil Temp
20	36804X	1	Gauge, Hourmeter
21	36512X	5	Plug, Hole
22	65545B	1	Instrument Panel
23	1101202	1	Switch, Ignition (includes 2ea keys)
REF	1101203	-	Key
24	P18141	1	Horn Button
25	P13009	1	Nut, Steering
26	P28704	1	Steering Wheel
27	34667A	1	Mounting Pad, Rubber
28	10267224	1	Shift Control, Electric
29	P33122	1	Steering Column
30	0 68410B	1	Harness, Jumper, Shifter
			N.S.S. = Not Sold Separately

NOTES:

• Used S/N 108–612. Not Required when ordering a new Shift Control (item 28).

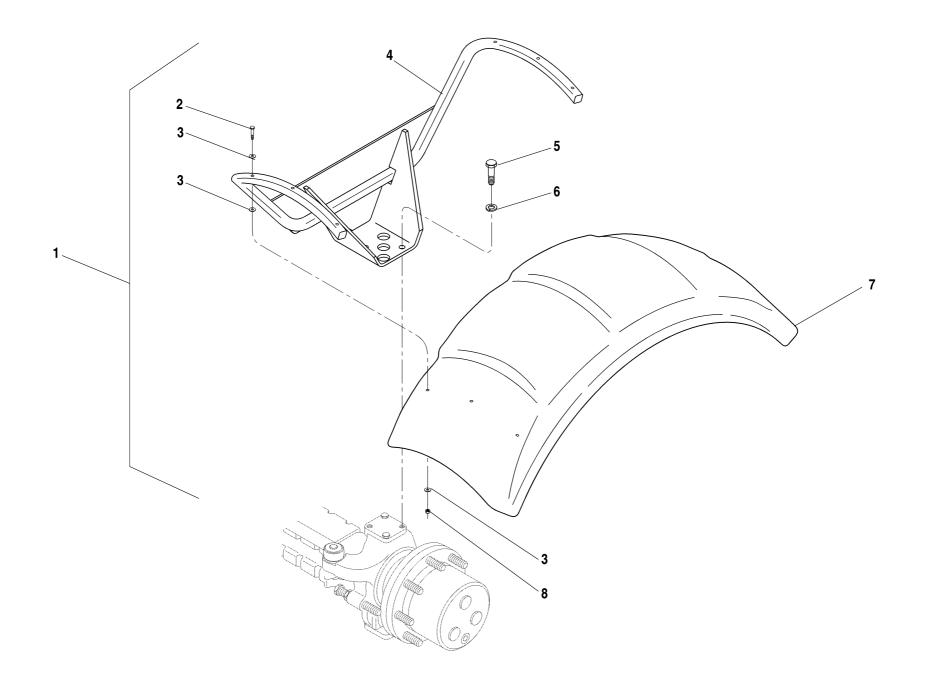
644D-34 S/N 1280-



3.5.1Rev. 000

03-9001 Rev. 00

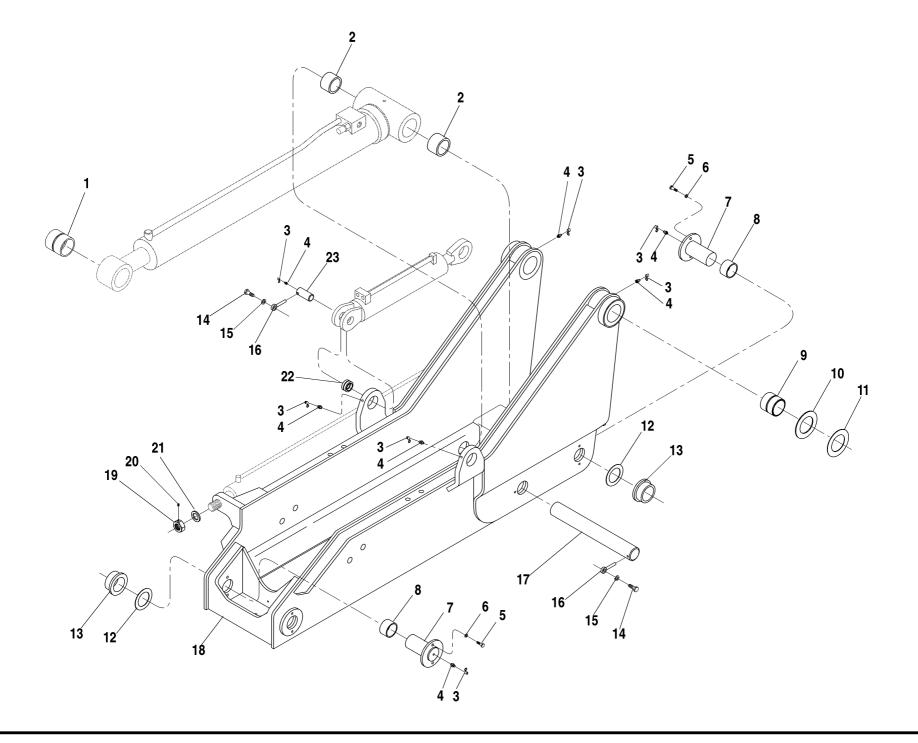
ГЕМ	PART NO.	QTY.		<u> </u>	7 p
1	P33122	1	Steer Column Assembly		Rev.
2	P18740	1	Brush Assembly (Includes Item 3)		
3	N.S.S.	2	Screw		
4	N.S.S.	1	Tube Assembly		
5	N.S.S.	1	Shaft Assembly		
6	N.S.S.	1	Retainer, Shaft		
7	P18738	1	Cap, Tube		
			N.S.S. = Not Sold Separately		
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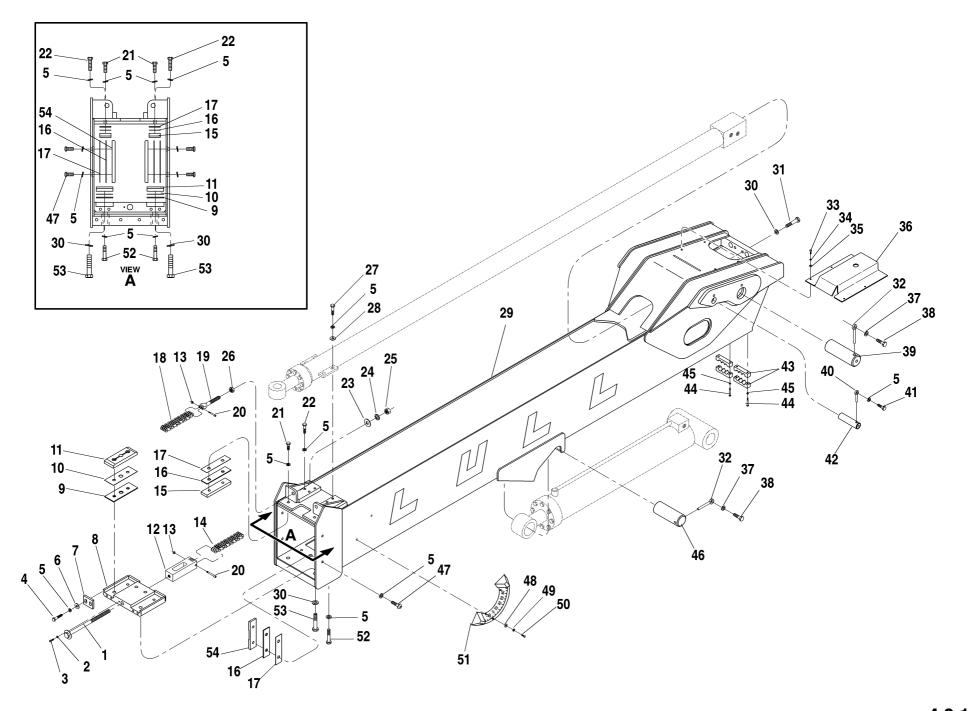
ITEM	PART NO.	QTY.	DESCRIPTION		
1	1100706	_	Fender Assembly (includes items 2-8)		Rev. 003
2	10700008	6	Capscerw, Hx., 1/4"-20 X1 3/4"		
3	8307109	18	Flatwasher, 1/4"		
4	1100475	1	Support, Fender		
5	10704281	2	Capscrew, Hx., M14-2.0 X 50mm GR 10.9		
6	8310173	2	Flatwasher, 14mm		
7	1100705	1	Fender, 16" Wide X 46" Long		
8	10705000	6	Nut, Toplock., 1/4" 20		
				CAAD 24 C/N 1000	┪
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Section 4 — Boom and Transfer Carria	ge
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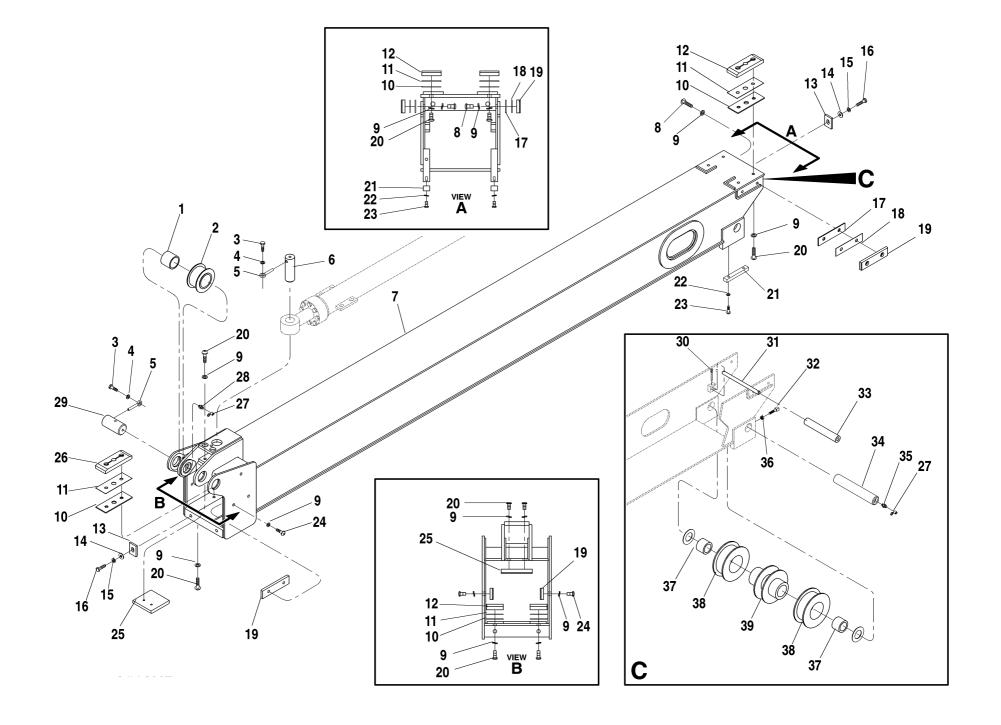
Transfer Carriage Assembly/Boom Cradle Assembly4	1.1.1
Outer Boom Assembly, 3-Section	1.2.1
Middle Boom Assembly, 3-Section	1.3.1
Inner Boom Assembly, 3-Section	1.4.1
Quick Attach Group Assembly	1.7.1



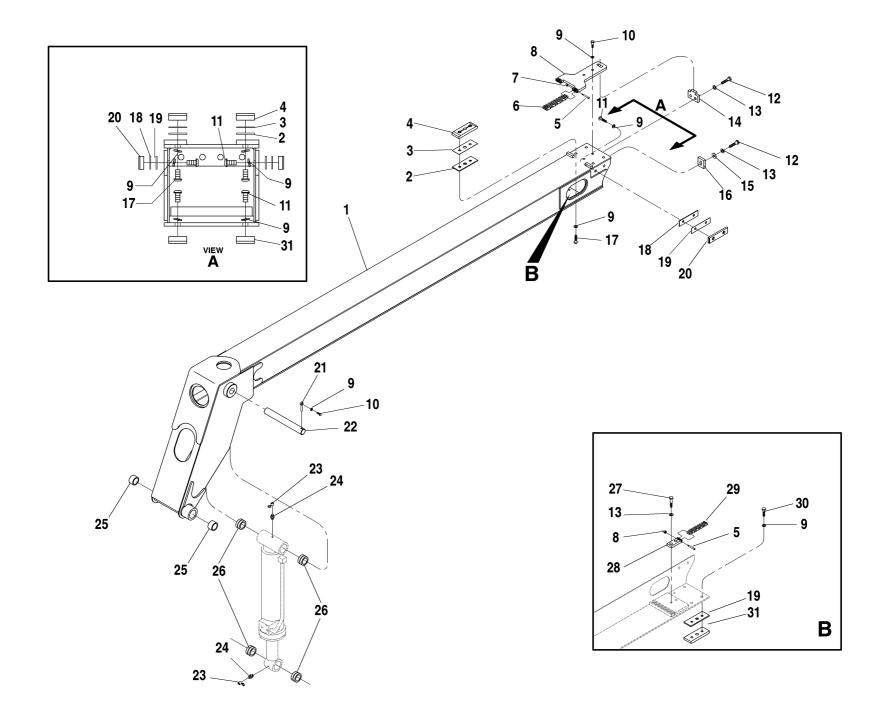
ГЕМ	PART NO.	QTY.	DESCRIPTION	
1	15959A	1	Bushing, Hoist Cylinder, Lower	
2	65692A	2	Bushing, Hoist Cylinder, Upper	
3	P32689	7	Cover, Grease Fitting	
4	P15367	1	Grease Fitting 45°	
5	P00204	4	Capscrew, Hx., 3/8"-16 × 1"	
6	P01310	4	Lockwasher, 3/8"	
7	66596A	4	Roller Pin	
8	24257A	4	Bushing, Roller Transfer Carriage	
9	P27758	2	Bushing, Boom Pivot	
10	P24746	A/R	Shim07"	
11	P24747	A/R	Shim10"	
12	17012A	4	Thrust Washer	
13	15969B	4	Roller, Transfer	
14	P00403	4	Capscrew, Hx., 1/2"-13 × 1 1/4"	
15	P01312	4	Lockwasher 1/2"	
16	34178A	4	Lock Pin	
17	65610A	1	Pin, Hoist Cylinder, Transfer Carriage	
18	65331D	1	Transfer Carriage	
19	16369A	1	Nut, Transfer Cylinder	
20	P02614	2	Setscrew, Socket Cup Pt., 3/8"-16 × 1/2"	
21	15976A	1	Boss, Cylinder Rod	
22	P13449	2	Bushing, Rear Carriage Tilt Cylinder Mount	
23	36464A	2	Pin, Rear Carriage Tilt	
				644D-34 S/N 108–
				0/14 100-



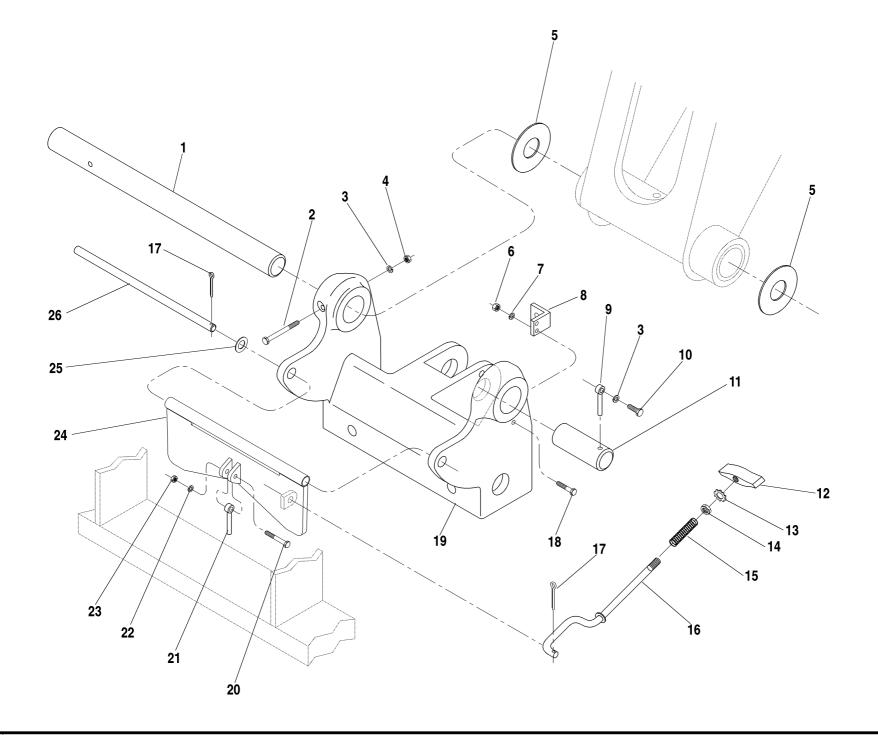
TEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	38374A	1	Adjustment Rod, Chain	36	1100393	1	Cover, Cylinder
2	P01308	1	Lockwasher, 1/4"	37	P01314	3	Lockwasher, 5/8"
3	P03194	1	Capscrew, Hx., 1/4"-20 × 1/4"	38	P00632	3	Capscrew, Hx., 5/8"-11 × 1 3/4"
4	P00404	4	Capscrew, Hx., 1/2"-13 × 1 1/2"	39	65330A	2	Pin, Boom Pivot
5	@ P01312	18	Lockwasher, 1/2"	40	34178A	2	Lock Pin
	2 P01361	-	Starwasher, External 1/2"	41	P00403	2	Capscrew, Hx., 1/2"-13 × 1 1/4"
	2 P01406	-	Flatwasher, 1/2"	42	36240A	2	Pin, Slave Cylinder
6	P01279	4	Flatwasher, 1/2" - Hardened	43	66909A	2	Hose Clamp
7	37100A	2	Pad Retainer, Aluminum	44	P00011	4	Capscrew, Hx., 1/4"-20 × 2 1/2"
8	65235B	1	Anchor Base	45	P01308	4	Lockwasher, 1/4"
9	38769A	A/R	Shim, 10 GA (.135" × 3" Wide)	46	65329A	1	Pin, Boom Hoist - Rod End
10	38770A	A/R	Shim, 16 GA (.135" × 3" Wide)	47	● P03236	-	Capscrew, Button Hd. Socket, 1/2"-20 × 3/4"
11	1100082	4	Slide Pad, Boom (1"" × 3" Wide)		0 P03237	-	Capscrew, Button Hd. Socket, 1/2"-20 × 1"
12	39013B	1	Adjustment Block, Chain		O P03242	12	Capscrew, Button Hd. Socket, 1/2"-20 x 1 1/4"
13	P05000	4	Locknut, Hx., 1/4"-20	48	P01327	2	Flatwasher, #8
14	65682A	1	Chain, Lower, 146 1/2"	49	P01354	2	Starwasher, #8 External
15	39024A	2	Slide Pad, Boom (3/4" × 2" Wide)	50	P02034	2	Screw, Slotted Rd. Hd., #8-32 × 1/2"
16	36328A	A/R	Shim, 10 GA (.135" × 2" Wide)	51	38252B	1	Inclinometer, Boom Angle
17	36329A	A/R	Shim, 16 GA (.135" × 2" Wide)	52	P00456	2	Capscrew, Hx., 1/2"-20 × 1 1/2"
18	65681A	2	Chain, Upper, 162"	53	P00733	4	Capscrew, Hx., 3/4"-10 × 3 1/2"
19	66345A	2	Anchor, Chain Adjustment	54	66399A	1	Slide Pad, Boom (9/16" × 2" Wide) Left Side
20	37456X	3	Shoulder Bolt, 5/16" Dia. x 2 1/2""		39604A	1	Slide Pad, Boom (7/16" x 2" Wide) Right Side
21	P00481	2	Capscrew, Hx., 1/2"-20 × 1 1/2"				
22	P00485	2	Capscrew, Hx., 1/2"-20 × 2 1/2"				
23	P01257	2	Flatwasher, 3/4" SAE	***************************************			
24	P01232	4	Nut, Hx., 3/4"-16 GR8				
25	P01364	2	Starwasher, 3/4" External	NOTE		د الثييد مالجي	(and the abine main as we exist a manufacture of the control of th
26	P01586	2	Jam Nut, Hx., 3/4"-16"				vary with shimming requirements. shimming requirements.
27	P00432	4	Capscrew, Hx., 1/2"-13 × 1 3/4"		vvasiicis Will Vo	אוא איזע איזע	
28	P01406	4	Flatwasher, 1/2"				
29	68976D	1	Weldment, Outer Boom				
30	P01315	2	Lockwasher, 3/4"				
31	P00733	2	Capscrew, Hx., 3/4"-10 × 3 1/2"	CAAD	24 C/N 100		
32	32432A	3	Lock Pin	644D-3	34 S/N 108–		
33	10700003	4	Capscrew, Hx., 1/4"-20 × 3/4"				
34	10701308	4	Lockwasher, 1/4"				
35	10701402	4	Flatwasher, 1/4"				



ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION	
1	65715A	2	Bushing	34	65266A	1	Pin, Chain Sheave & Hose Sleeve	Rev. 002
2	65833B	2	Chain Sheave	35	P16611	2	Grease Fitting	
3	P00403	2	Capscrew, Hx., 1/2"-13 × 1 1/4"	36	P01560	1	Jamnut, Hx., 1/2"-13	
4	P01312	16	Lockwasher, 1/2"	37	65723A	2	Bushing	
5	34178A	2	Lock Pin, 1/2" Dia.	38	65270B	2	Hose Sheave	
6	65214A	1	Pin, Boom Extend Cylinder	39	66275B	1	Roller, Chain/Hose	
7	65123D	1	Middle Boom					
8	O P03242	16	Capscrew, Button Hd. Socket, 1/2"-20 x 1 1/4"					
***************************************	1 P03236	-	Capscrew, Button Hd. Socket, 1/2"-20 × 3/4"		_			
	1 P03237	-	Capscrew, Button Hd. Socket, 1/2"-20 x 1"	NOTE			and the state of t	
9	2 P01312	16	Lockwasher, 1/2"	0 ,			vary with shimming requirements. shimming requirements.	
	2 P01361	-	Starwasher, External 1/2"		washers will va	ary willi	silining requirements.	
	2 P01406	-	Flatwasher, 1/2"	~				
10	38769A	A/R	Shim, 10 GA					
11	38770A	A/R	Shim, 16 GA					
12	1100084	2	Slide Pad, Boom (3/4" × 3" Wide)					
13	39809A	2	Pad Retainer, Aluminum					
14	P01440	2	Flatwasher, 3/4" SAE					
15	P01315	2	Lockwasher, 3/4"					
16	P00726	2	Capscrew, Hx., 3/4"-10 × 1 3/4"					
17	36328A	A/R	Shim, 10 GA (.135" × 2" Wide)					
18	36329A	A/R	Shim, 16 GA (.060" × 2" Wide)					
19	39604A	4	Slide Pad, Boom (7/16" × 2" Wide)					
20	P00452	4	Capscrew, Hx., 1/2"-20 × 1" GR 8					
21	65626A	2	Slide Pad, Boom (3/4" × 1" Wide)	-				
22	P01359	4	Starwasher 3/8"					
23	P03225	4	Capscrew, Button Hd. Socket, 3/8"-16 × 3/4"					
24	P00452	8	Capscrew, Hx., 1/2"-20 × 1"					
25	65622A	1	Slide Pad, Boom					
26	1100082	2	Slide Pad, Boom (1" × 3" Wide)					
27	P32689	4	Cover, Grease Fitting					
28	P15277	3	Grease Fitting					
29	1100712	1	Pin, Front Chain Sheave	GAAD (24 C/N 100			
30	10169065	1	Pin, Hitch	644D-3	34 S/N 108–			
31	65678A	1	Mounting Shaft, Hose Follower					
32	P02757	1	Setscrew, Square Hd., Cup Pt., $1/2$ "- $13 \times 1 3/4$ "					
33	65676A	1	Roller, Hose Follower					



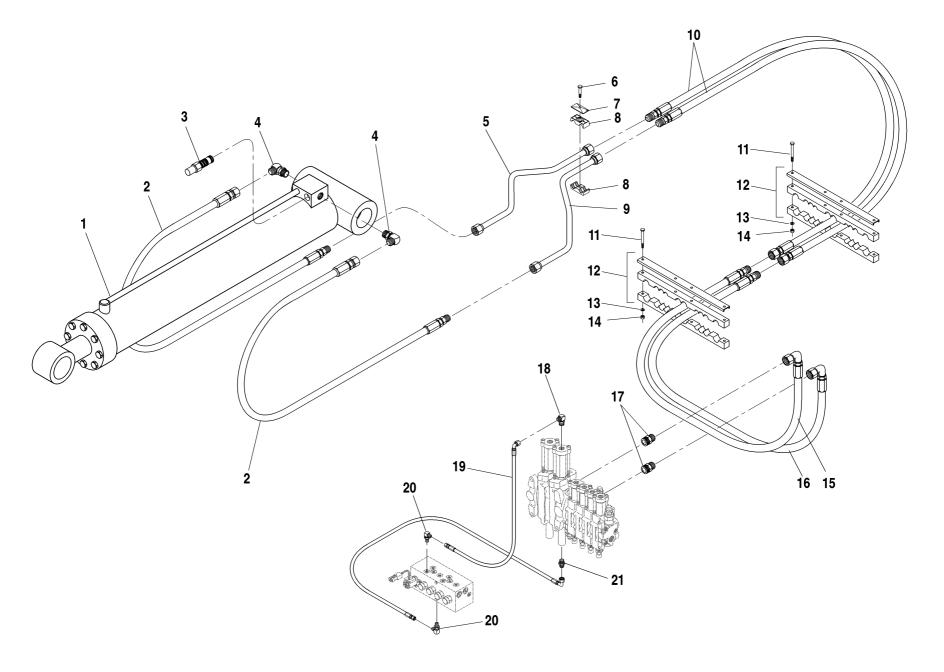
ITEM	PART NO.	QTY.	DESCRIPTION		- 5
1	65124D	1	Inner Boom		Rev. 002
2	38769A	A/R	Shim, 10 GA (.135" × 3" Wide)		
3	38770A	A/R	Shim, 16 GA (.135" × 3" Wide)		
4	1100082	2	Slide Pad, Boom (1" × 3" Wide)		
5	P27310	2	Shoulder Bolt, 5/16" × 2"	NOTES:	
6	65681A	2	Chain, Upper 162"	Washers will vary with shimming requirements.	
7	P05000	2	Lock Nut, Hx., 1/4"-20		
8	65264B	1	Chain Anchor, Upper		
9	0 P01312	13	Lockwasher, 1/2"		
	● P01361	-	Starwasher, External 1/2"		
	● P01406	-	Flatwasher, 1/2"		
10	P00403	3	Capscrew, Hx., 1/2"-13 × 1 1/4"		
11	P00450	_	Capscrew, Hx., 1/2"-20 × 3/4"		
12	P00726	2	Capscrew, Hx., $3/4$ "- $10 \times 3 1/2$ "		
13	P01315	6	Lockwasher, 3/4"		
14	65265A	1	Chain Anchor Shear Block		
15	P01440	2	Flatwasher, 3/4" SAE		
16	39809A	2	Pad Retainer, Aluminum		
17	P00453	4	Capscrew, Hx., $1/2$ "-20 × 1 $1/2$ "		
18	36328A	A/R	Shim, 10 GA (.135" × 2" Wide)		
19	36329A	A/R	Shim, 16 GA (.135" × 2" Wide)		
20	39604A	2	Slide Pad, Boom (7/16"× 2" Wide)		
21	34178A	1	Lock Pin		
22	65624A	1	Pin, Front Carriage Tilt Cylinder, Base End		
23	P32689	2	Cover, Grease Fitting		
24	P15337	2	Grease Fitting		
25	24257A	2	Bushing, Boom - Quick Attach Pivot		
26	16228A	4	Bushing, Front Carriage Tilt Cylinder		
27	P00726	2	Capscrew, Hx., 3/4"-10 × 1 3/4"		
28	38724B	1	Chain Anchor		
29	65682A	1	Chain, Lower 146 1/2"		
30	P00452	4	Capscrew, Hx., 1/2"-20 × 1"		
31	39024A	2	Slide Pad, Boom (1" × 3" Wide)	644D-34 S/N 108–	†
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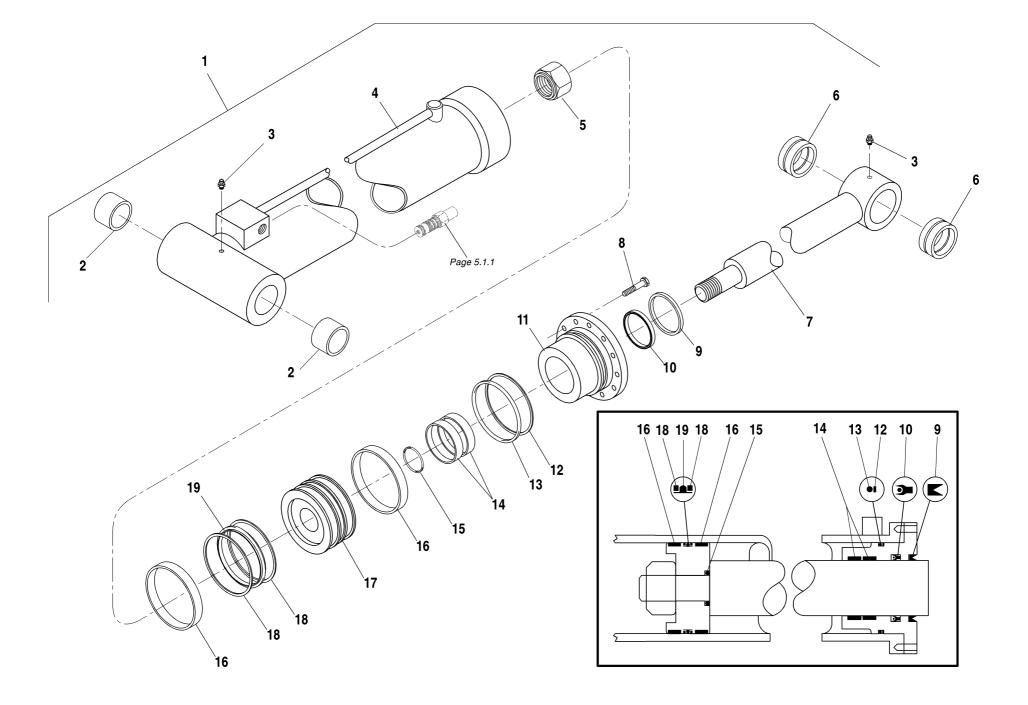
ITEM	PART NO.	QTY.	DESCRIPTION	
1	36863A	1	Pin, Quick Attach Pivot	
2	P00420	1	Capscrew, Hx., 1/2"-13 × 7"	
3	P01312	2	Lockwasher, 1/2"	
4	P01510	1	Nut, Hx., 1/2"-13	
5	36013A	A/R	Shim036" (.91mm)	
	17012A	A/R	Shim075" (1.90mm)	
6	P01200	2	Nut, Hx., 1/4"-20	
7	P01308	2	Lockwasher, 1/4"	
8	38177A	1	Bracket, Rod Support	
9	34178A	1	Lock Pin	
10	P00403	1	Capscrew, Hx., 1/2"-13 × 1 1/4"	
11	65667A	1	Pin, Front Carriage Tilt - Rod End	
12	37103X	1	Handle, Release	
13	P01361	1	Starwasher, 1/2"	
14	P01560	1	Jam Nut, Hx., 1/2"-13	
15	66835X	1	Spring, Release	
16	67059A	1	Rod, Quick Attach Release	
17	P03865	3	Cotter Pin, 3/16" × 1 1/2"	
18	P00008	2	Capscrew, Hx., $1/4$ "-20 × 1 3/4"	
19	38176D	1	Quick Attach Casting	
20	P00209	1	Capscrew, Hx., 3/8"-16 × 2 1/4"	
21	32493A	1	Lock Pin	
22	P01310	1	Lockwasher, 3/8"	
23	P01508	1	Nut, Hx., 3/8"-16	
24	65671B	1	Lock Plate	
25	P01411	2	Flatwasher, 1"	
26	65668A	1	Pin, Lock Pivot Plate	
				644D-34 S/N 108–

Section 5 — Boom and	Transfer Hy	ydraulics
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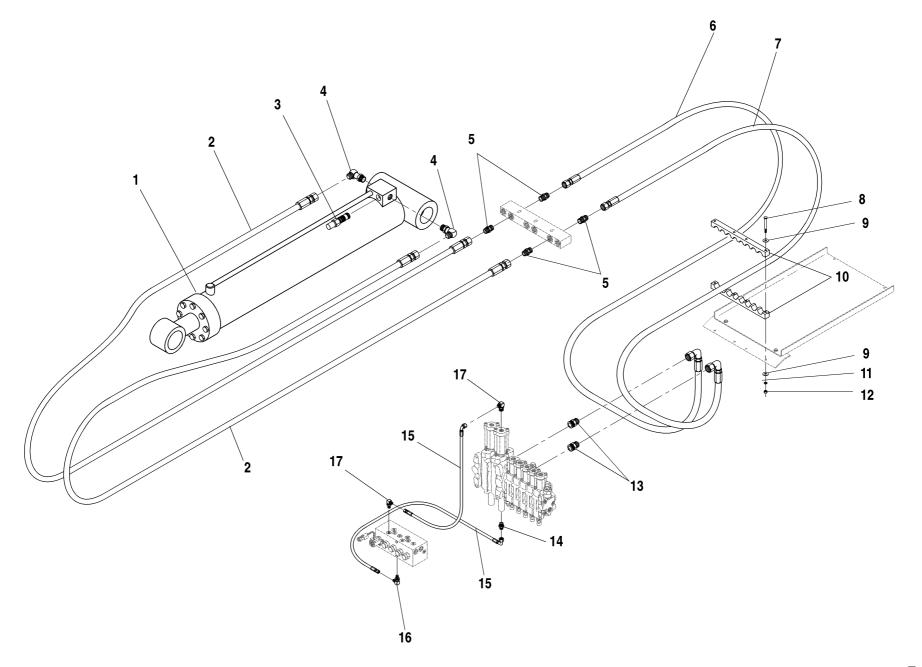
Hoist Hydraulic Circuit5.1.
Hoist Cylinder Assembly 5.2.
Rear Carriage Tilt Hydraulic Circuit
Rear Carriage Tilt Cylinder Assembly
Transfer Hydraulic Circuit
Transfer Cylinder Assembly 5.6.
Boom Hydraulic Circuit, 3-Section
Boom Extension Cylinder Assembly, 3-Section 5.8.
Front Carriage Tilt Cylinder Assembly 5.11.



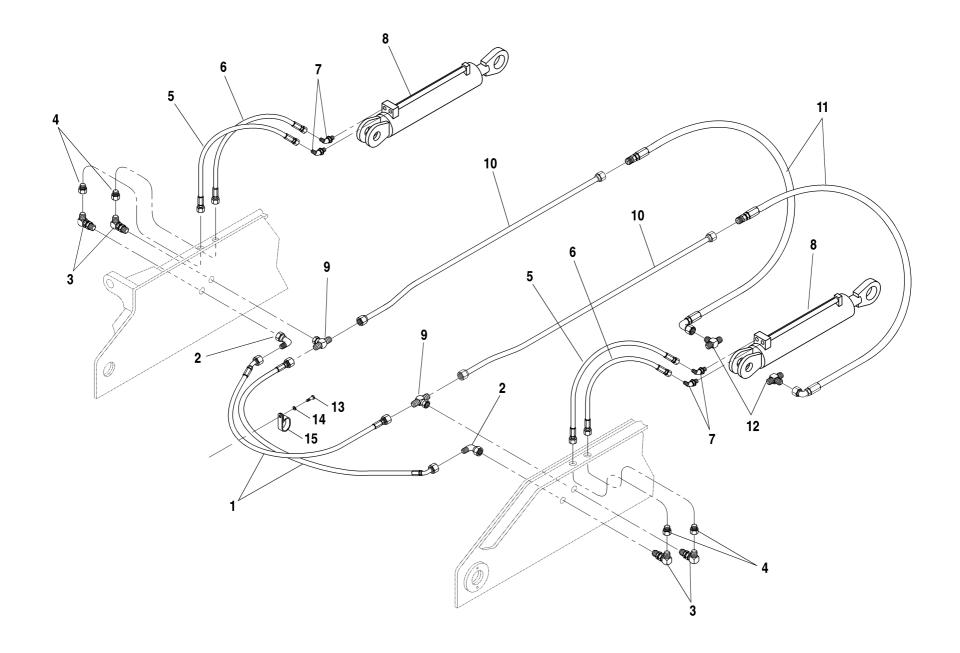
ITEM	PART NO.	QTY.	DESCRIPTION		- 5
1	34847B	1	Cylinder, Hoist (See Page 5.2.1 for Breakdown)		Rev. 000
2	37833X	2	Hyd. Hose, 3/4" × 48"		
3	P27827	1	Cartridge, Counterbalance Valve		
REF	P40491	-	Seal Kit for Item 3		
4	P17802	2	90° Elbow, O-Ring		
5	65468B	1	Hyd. Tube, 3/4" O.D.		
6	P00107		Capscrew, Hx., 1/4"-20 × 3"		
7	37734X	1	Cover, Clamp		
8	37733X	1	Clamp, Tube, 5/8"		
9	65467B	1	Hyd. Tube, 3/4" O.D.		
10	37850X	2	Hyd. Hose, 3/4" × 71"		
11	P00013	4	Capscrew, Hx., 1/4"-20 × 3"		
12	85482B	1	Clamp, Multiple Hose		
13	P01308	4	Lockwasher, 1/4"		
14	P01506	4	Nut, Hx., 1/4"-20		
15	66752X	1	Hyd. Hose, 3/4" × 44"		
16	66741X	1	Hyd. Hose, 3/4" × 42"		
17	P17805	2	Connector, O-Ring		
18	P18935	1	90° Elbow		
19	P30173	1	Hyd. Hose, 1/4" × 20"		
20	P19248	1	90° Elbow		
21	P18936	1	Connector		
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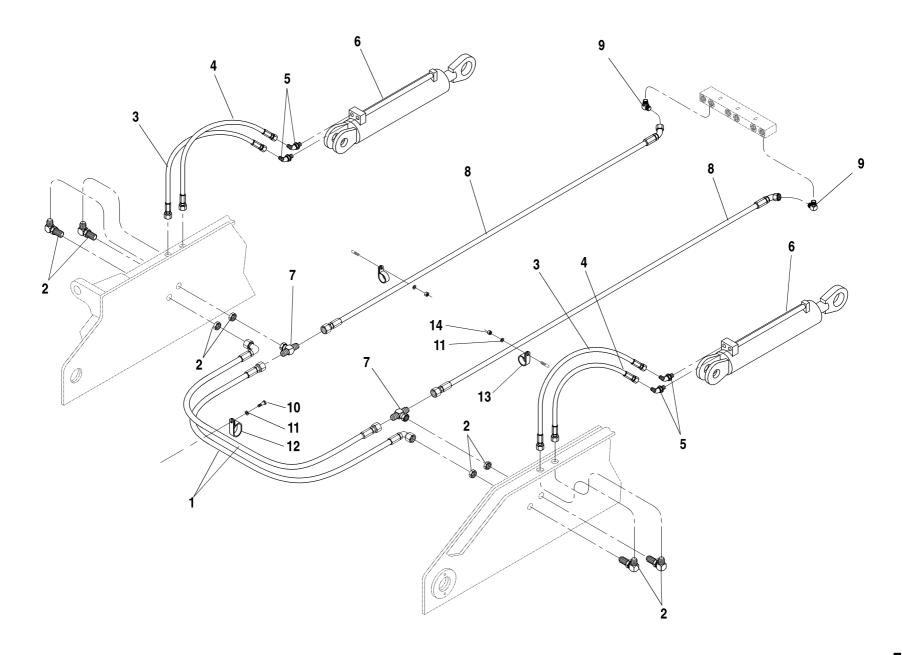
ITEM	PART NO.	QTY.	DESCRIPTION		
1	34847B	-	Cylinder Assembly, Hoist		Rev.
2	65692A	2	Bushing		
3	P16611	2	Grease Fittings		
4	68364X	1	Barrel Weldment		
5	P40461	1	Nut, Crownlock		
6	P19111	2	Bushing		
7	68365X	1	Rod Weldment		
8	68368X	12	Capscrew, Hx.,		
9	≭ N.S.S.	1	Wiper		
10	≭ N.S.S.	1	Seal		
11	68367X	1	Head, Rod Bearing		
12	* N.S.S.	1	Back-Up Ring		
13	* N.S.S.	1	O-Ring		
14	* N.S.S.	2	Wear Ring		
15	* N.S.S.	1	O-Ring		
16	* N.S.S.	2	Wear Ring		
17	68366X	1	Piston		
18	N.S.S.	2	Back-Up Ring		
19	N.S.S.	1	Pistion Seal		
REF	68369X	1	Seal Kit		
NOTE	S: tems Includec	I in Seal	Kit.		
		N.S	S.S. = Not Sold Separately		
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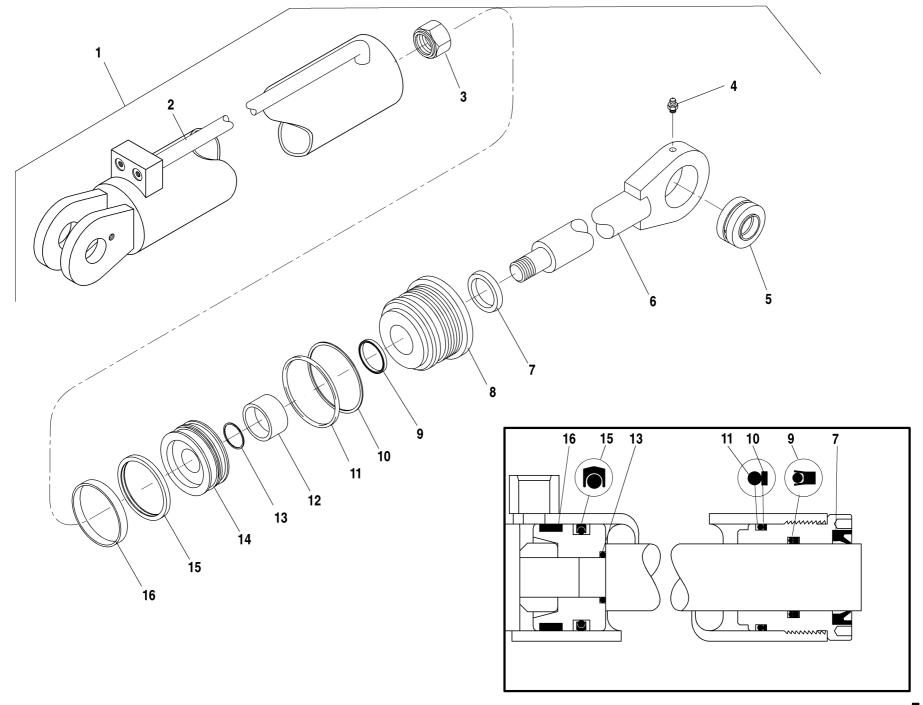
ITEM	PART NO.	QTY.	DESCRIPTION	
1	34847B	1	Cylinder, Hoist (See Page 5.2.1 for Breakdown)	Rev.
2	68107X	2	Hyd. Hose, 3/4" × 48"	
3	P27827	1	Cartridge, Counterbalance Valve	
REF	P40491	-	Seal Kit for Item 3	
4	P33165	2	90° Elbow, O-Ring, Long	
5	P18964	5	Connector, O-Ring	
6	68986B	1	Hyd. Hose, 3/4" × 128"	
7	68985B	1	Hyd. Hose, 3/4" × 124"	
8	P00013	4	Capscrew, Hx., 1/4"-20 × 3"	
9	P01402	1	Flatwasher 1/4"	
10	68972A	1	Clamp, Multiple Hose	
11	P01308	4	Lockwasher, 1/4"	
12	P01506	4	Nut, Hx., 1/4"-20	
13	P17805	2	Connector, O-Ring	
14	P18936	1	Connector	
15	P30173	5	Hyd. Hose, 1/4" × 20"	
16	P19248	1	90° Elbow	
17	P18935	1	90° Elbow	
				2447 24 2 (1) 4 24
				644D-34 S/N 181–



TEM	PART NO.	QTY.	DESCRIPTION	
1	37898X	2	Hyd. Hose, 1/2" × 57"	
2	P21632	2	90° Elbow, Swivel	
3	P21916	4	90° Elbow, Bulkhead	
4	P28381	4	Adapter, O-Ring	
5	P24689	2	Hyd. Hose, 1/2" × 30"	
6	37897X	2	Hyd. Hose, 1/2" × 25"	
7	P21229	4	45° Elbow, O-Ring	
8	34828B	2	Cylinder, Rear Carriage Tilt	
			(See Page 5.4.1 for Breakdown)	
9	P24651	2	Tee, Swivel Nut	
10	65466B	2	Hyd. Tube, 3/4" O.D.	
11	37872X	2	Hyd. Hose, 3/4" × 71"	
12	P27388	2	Tee, Union	
13	P00205	1	Capscrew, Hx., 3/8"-16 × 1 1/4"	
14	P01310	1	Lockwasher, 3/8"	
15	37368X	1	Clamp, Hose, Double	
				644D-34 S/N 108–180



1 37898X 2 Hyd. Hose, 1/2" × 57" 2 P21916 4 90° Elbow, Bulkhead 3 68113X 2 Hyd. Hose, 1/2" × 20" 4 68112X 2 Hyd. Hose, 1/2" × 25" 5 P21229 4 45° Elbow, O-Ring 6 34828B 2 Cylinder, Rear Carriage Tilt (See Page 5.4.1 for Breakdown) 7 P24651 2 Tee, Swivel Nut 8 68108X 2 Hyd. Hose, 3/4" × 71" 9 P18924 2 90° Elbow, O-Ring 10 P00205 1 Capscrew, Hx, 3/8"-16 × 1 1/4" 11 P01310 3 Lockwasher, 3/8" 12 37368X 1 Clamp, Hose, Double 13 P18195 2 Clamp, Hose 14 P05108 2 Nut, Hx, 3/8"-16	ITEM	PART NO.	QTY.	DESCRIPTION		
2 P21916 4 90° Elbow, Bulkhead 3 68113X 2 Hyd. Hose, 1/2° × 30° 4 68112X 2 Hyd. Hose, 1/2° × 25° 5 P21229 4 45° Elbow, O-Ring 6 34828B 2 Cylinder, Rear Carriage Tilt (See Page 5.4.1 for Breakdown) 7 P24651 2 Tee, Swivel Nut 8 68108X 2 Hyd. Hose, 3/4° × 71° 9 P18924 2 90° Elbow, O-Ring 10 P00205 1 Capscrew, Hx., 3/8°-16 × 1 1/4° 11 P01310 3 Lockwasher, 3/8° 12 37368X 1 Clamp, Hose, Double 13 P18195 2 Clamp, Hose 14 P05108 2 Nut, Hx., 3/8°-16						R
4 68112X 2 Hyd. Hose, 1/2" x 25" 5 P21229 4 45° Elbow, O-Ring 6 34828B 2 Cylinder, Rear Carriage Tilt	2	P21916	4	90° Elbow, Bulkhead		
5 P21229 4 45° Elbow, O-Ring 6 34828B 2 Cylinder, Rear Carriage Tilt (See Page 5.4.1 for Breakdown) 7 P24651 2 Tee, Swivel Nut 8 68108X 2 Hyd. Hose, 3/4" × 71" 9 P18924 2 90° Elbow, O-Ring 10 P00205 1 Capscrew, Hx., 3/8"-16 × 1 1/4" 11 P01310 3 Lockwasher, 3/8" 12 37368X 1 Clamp, Hose, Double 13 P18195 2 Clamp, Hose 14 P05108 2 Nut, Hx., 3/8"-16	3	68113X	2	Hyd. Hose, 1/2" × 30"		
6 34828B 2 Cylinder, Rear Carriage Tilt (See Page 5.4.1 for Breakdown) 7 P24651 2 Tee, Swivel Nut 8 68108X 2 Hyd. Hose, 3/4" × 71" 9 P18924 2 90° Elbow, C-Ring 10 P00205 1 Capscrew, Hx., 3/8"-16 × 1 1/4" 11 P01310 3 Lockwasher, 3/8" 12 37368X 1 Clamp, Hose, Double 13 P18195 2 Clamp, Hose 14 P05108 2 Nut, Hx., 3/8"-16	4	68112X	2			
(See Page 5.4.1 for Breakdown) 7	5	P21229	4			
7 P24651 2 Tee, Swivel Nut 8 68108X 2 Hyd. Hose, 3/4" x 71" 9 P18924 2 90° Elbow, O-Ring 10 P00205 1 Capscrew, Hx., 3/8"-16 x 1 1/4" 11 P01310 3 Lockwasher, 3/8" 12 37368X 1 Clamp, Hose, Double 13 P18195 2 Clamp, Hose 14 P05108 2 Nut, Hx., 3/8"-16	6	34828B	2	Cylinder, Rear Carriage Tilt		
8 68108X 2 Hyd. Hose, 3/4" × 71" 9 P18924 2 90° Elbow, O-Ring 10 P00205 1 Capscrew, Hx., 3/8"-16 × 1 1/4" 11 P01310 3 Lockwasher, 3/8" 12 37368X 1 Clamp, Hose, Double 13 P18195 2 Clamp, Hose 14 P05108 2 Nut, Hx., 3/8"-16				(See Page 5.4.1 for Breakdown)		
9 P18924 2 90° Elbow, O-Ring 10 P00205 1 Capscrew, Hx., 3/8"-16 x 1 1/4" 11 P01310 3 Lockwasher, 3/8" 12 37368X 1 Clamp, Hose, Double 13 P18195 2 Clamp, Hose 14 P05108 2 Nut, Hx., 3/8"-16	7	P24651	2	Tee, Swivel Nut		
10 P00205 1 Capscrew, Hx., 3/8"-16 x 1 1/4" 11 P01310 3 Lockwasher, 3/8" 12 37368X 1 Clamp, Hose, Double 13 P18195 2 Clamp, Hose 14 P05108 2 Nut, Hx., 3/8"-16	8	68108X	2	Hyd. Hose, 3/4" × 71"		
11 P01310 3 Lockwasher, 3/8" 12 37368X 1 Clamp, Hose, Double 13 P18195 2 Clamp, Hose 14 P05108 2 Nut, Hx., 3/8"-16	9	P18924	2	90° Elbow, O-Ring		
12 37368X 1 Clamp, Hose, Double 13 P18195 2 Clamp, Hose 14 P05108 2 Nut, Hx., 3/8"-16	10	P00205	1	Capscrew, Hx., 3/8"-16 × 1 1/4"		
13 P18195 2 Clamp, Hose 14 P05108 2 Nut, Hx., 3/8"-16			3			
14 P05108 2 Nut, Hx., 3/8"-16			1			
644D-34 S/N 181-	14	P05108	2	Nut, Hx., 3/8"-16		
644D-34 S/N 181–						
					644D-34 S/N 181–	



5.4.1 Rev. 000

05A-2006

ITEM	PART NO.	QTY.	DESCRIPTION
1	34828B	-	Cylinder Assembly, Rear Carriage Tilt
2	P32239	1	Barrel Weldment
3	P19217	1	Nut, Crownlock
4	P16611	1	Zerk, Grease
5	P13449	1	Bushing, Self-Aligned

8 P32331 1 Rod Bearing
9 N.S.S. 1 *Loaded Urethane U-Cup

P32319

N.S.S.

N.S.S. 1 *Back-Up Ring

N.S.S. 1 *****O-Ring P32342 1 Stroke Limiter

13 N.S.S. 1 *****O-Ring 14 P23799 1 Piston

15 N.S.S.
 1 *Piston Seal
 16 N.S.S.
 1 *Wear-Ring

REF **•**P32314 1 Seal Kit (Includes Items 7, 9, 10, 11,13, 15 & 16)

Rod Weldment

*Wiper

NOTES:

6

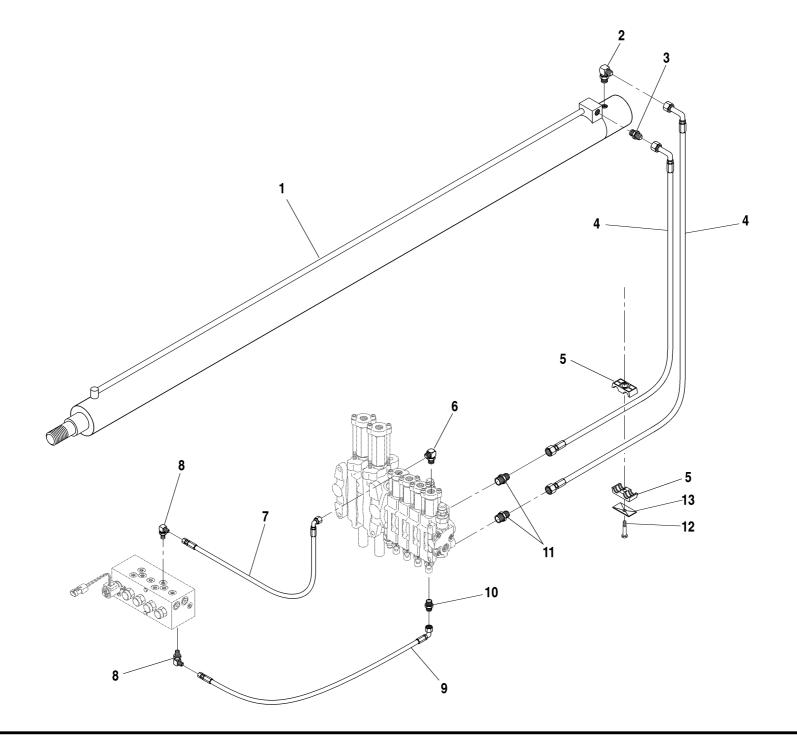
10

11 12

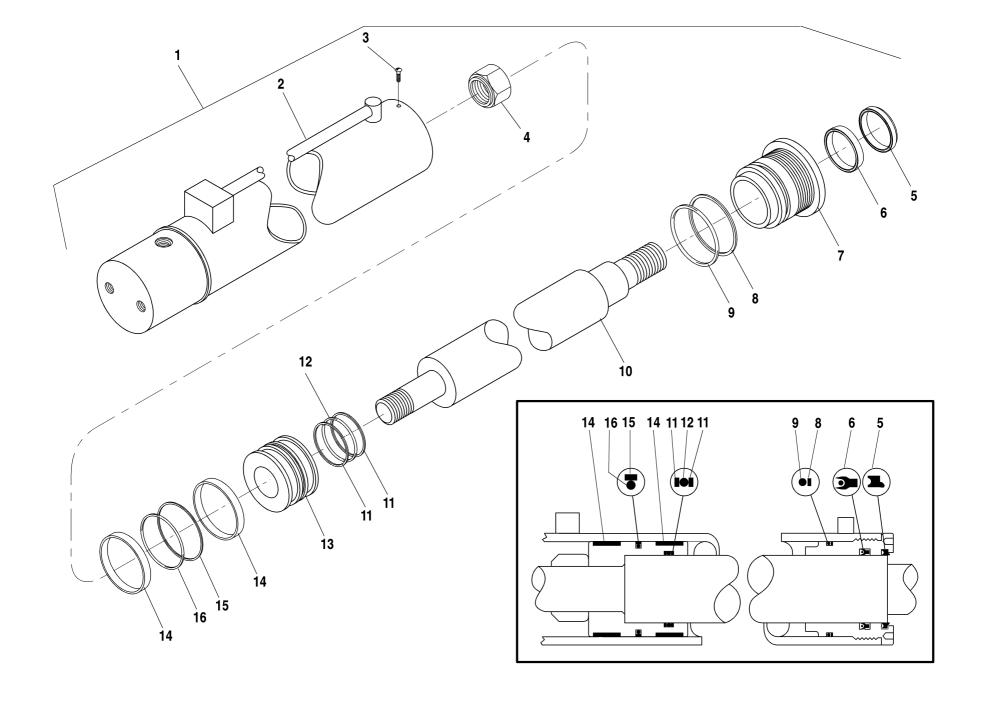
* Items Included in Seal Kit.

N.S.S. = Not Sold Separately

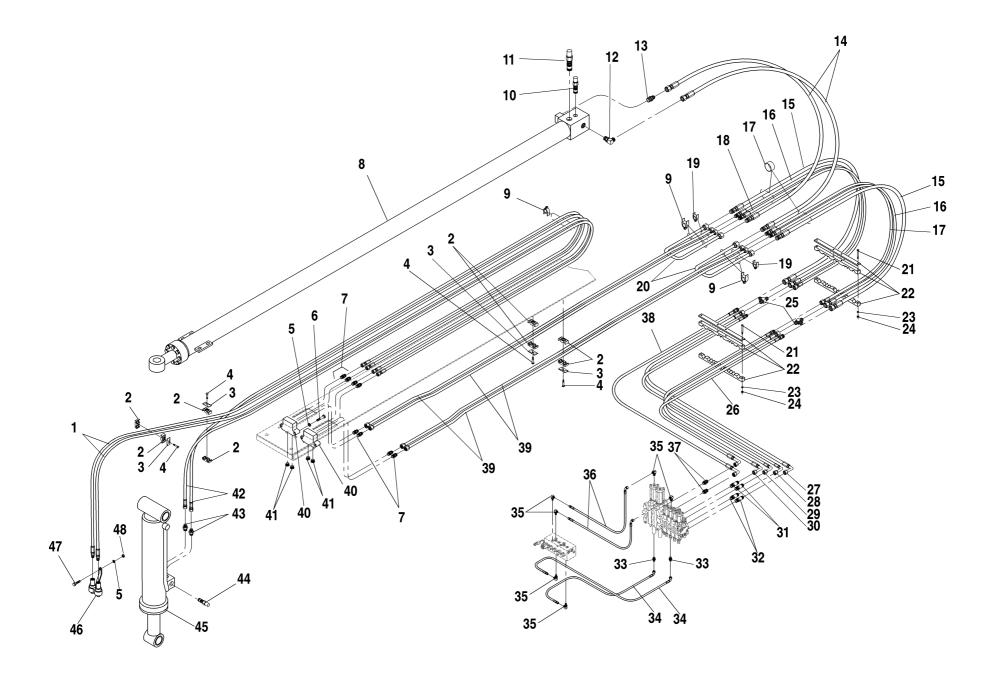
644D-34 S/N 108-



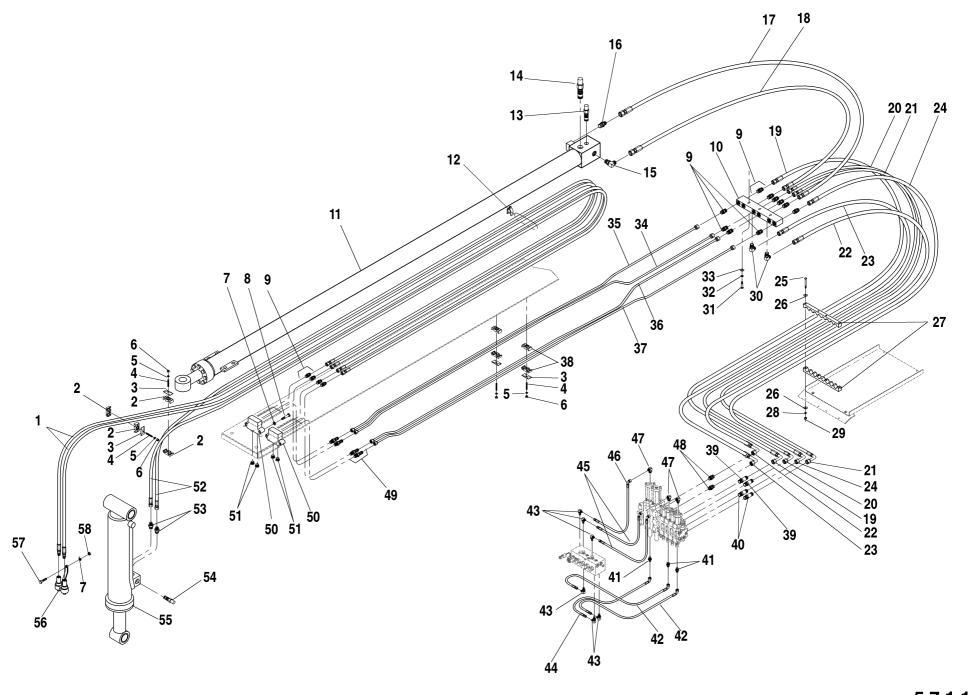
ITEM	PART NO.	QTY.	DESCRIPTION		- D 000
1	34845B	1	Cylinder, Transfer		Rev. 000
			(See Page 5.6.1 for Breakdown)		
2	P18956	1	90° Elbow, O-Ring		
3	P18944	1	Connector, O-Ring		
4	37892X	2	Hyd. Hose, 3/8" × 154"		
5	37733X	1	Clamp, Hyd. Hose		
6	P18935	1	90° Elbow		
7	P30174	1	Hyd. Hose, 1/4" × 16"		
8	P19248	2	90° Elbow		
9	37298X	1	Hyd. Hose, 1/4" × 14"		
10	P19836	1	Connector, O-Ring		
11	P15406	2	Connector, O-Ring		
12	37735X	1	Bolt		
13	37734X	1	Cover		
					4
				644D-34 S/N 108–	_
					1



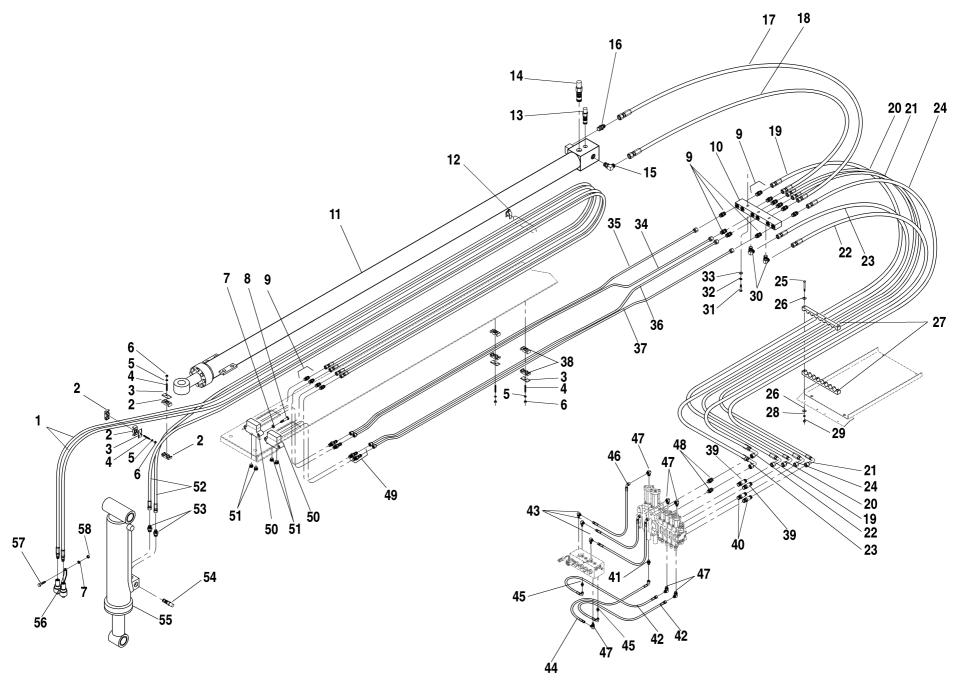
1	PART NO. 34845B	QTY. 1	DESCRIPTION Cylinder Assembly, Transfer
2	68370X	1	Barrel Weldment
3	68377X	1	★ Screw, Self-Tapping
4	P40459	1	Nut, Crownlock
5	N.S.S	1	*Wiper
6	N.S.S	1	*Seal
7	P32279	1	Head, Rod Bearing
8	N.S.S	1	≭ Back-Up Ring
9	N.S.S	1	*O-Ring
10	68371X	1	Rod
11	N.S.S	2	≭ Back-Up Ring
12	N.S.S	1	★ O-Ring
13	68372X	1	Piston
14	N.S.S	2	≭ Wear Ring
15	N.S.S	1	≭ Piston Seal
16	N.S.S	1	★ O-Ring
REF	P30656	1	Seal Kit
NOTES * Ite	: ems Included	in Seal	Kit.
			N.S.S. = Not Sold Separately



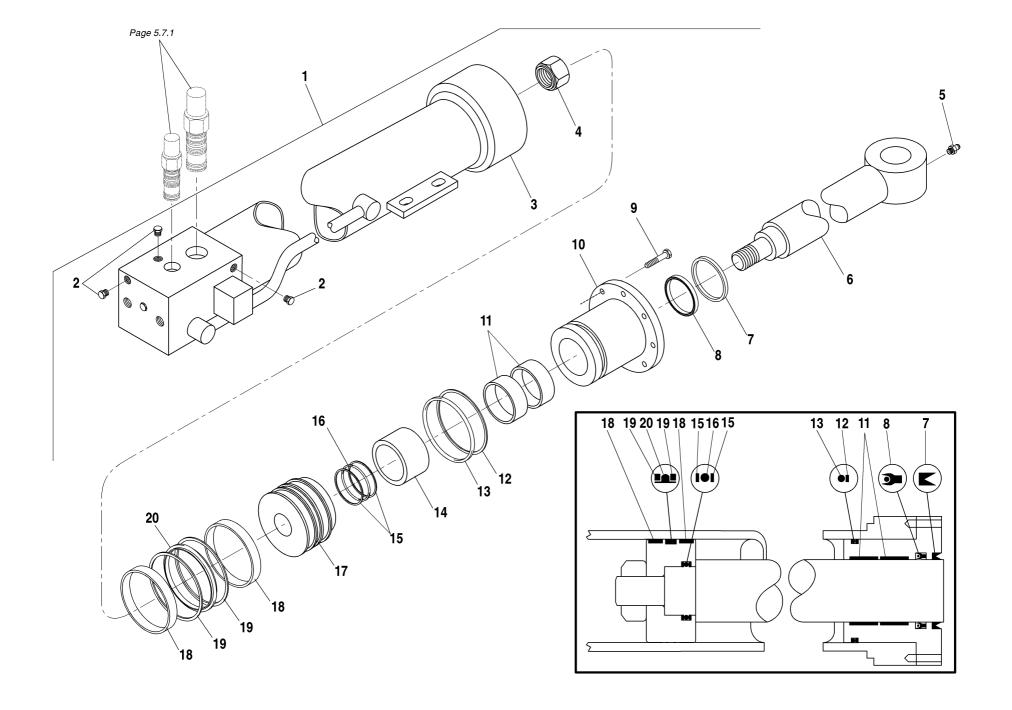
66724X 2 Hyd. Hose, 1/2* x 336" 35 P19248 6 90° Elbow, O-Ring 37733X 4 Clamp Body, 5/8" 36 37821X 2 Hyd. Hose, 1/4* x 22" 37734X 4 Clamp Body, 5/8" 38 6746X 1 Hyd. Hose, 5/8" x 45" 9101312 4 Lockwasher, 1/2" 39 65469B 4 Hyd. Tube 90407 4 Capscrew, Hx., 1/2*-13 x 2 1/4* 40 65944A 2 Manifold, Hydraulic 91898 9 Connector, O-Ring 41 P27937 4 Hyd. Hose, 5/8" x 45" 99° Elbow, O-Ring 42 37853X 2 Hyd. Hose, 1/2" x 326" (See Page 5.8.1 for Breakdown) 42 9715406 2 Connector, O-Ring 9 44 P27937 4 Hyd. Hose, 1/2" x 326" (See Page 5.8.1 for Breakdown) 43 P15406 2 Connector, O-Ring 9 P20465 4 Clamp, Hyd. Hose, 3/4" 44 P29947 1 Valve, Counterbalance - 30 GPM 8EF P40494 Seal Kit for Item 10 45 65751B 1 Cylinder, Front Carriage Tilt (See Page 5.11.1 for Breakdown) 917802 1 90° Elbow, O-Ring 48 P01510 1 Nut, Hx., 1/2*-13 x 1 1/2" 1 1/	TEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
37734X 4 Clamp Cover	1	66724X	2	Hyd. Hose, 1/2" × 336"	35	P19248	6	90° Elbow, O-Ring
37735X 4 Capscrew, Hx., 5/16"-18 x 1 3/4" 38 66746X 1 Hyd. Hose, 5/8" x 45" P01312 4 Lockwasher, 1/2" 39 65469B 4 Hyd. Tube P00407 4 Capscrew, Hx., 1/2"-13 x 2 1/4" 40 65944A 2 Manifold, Hydraulic P18964 9 Connector, O-Ring 41 P27937 4 Plug, O-Ring 34848B 1 Cylinder, Boom Extension 42 37853X 2 Hyd. Hose, 1/2" x 326" Csee Page 5.8.1 for Breakdown) 43 P15406 2 Connector, O-Ring P20465 4 Clamp, Hyd. Hose, 3/4" 44 P29947 1 Valve, Counterbalance 15 GPM P27827 1 Valve, Counterbalance - 30 GPM P40491 Seal Kit for Item 10 45 65751B 1 Cylinder, Front Carriage Tilt P30444 1 Valve, Counterbalance - 60 GPM P30927 Seal Kit for Item 10 46 66347B 1 Cylinder, Front Carriage Tilt P30444 1 Valve, Oounterbalance - 60 GPM P30927 Seal Kit for Item 11 46 66347B 1 Cylinder, Front Carriage Tilt P30445 1 Oylinder, Seal Kit for Item 44 P30404 1 Capscrew, Hx., 1/2"-13 x 1 1/2" P17802 1 90" Elbow, O-Ring 47 P00404 1 Capscrew, Hx., 1/2"-13 x 1 1/2" 37855X Hyd. Hose, 5/6" x 36" 37845X Hyd. Hose, 5/6" x 36" 65463B Hose Clamp, Hyd. Hose, 5/6" 65463B Hose Clamp, Hyd. Hose, 5/6" 65463B Hose Clamp, Multiple P01308 Lockwasher, 1/4" P01506 Nut, Hx., 1/4"-20 P27388 Connector, O-Ring 66742X Hyd. Hose, 5/6" x 46" 66742X Hyd. Hose, 5/6" x 46" 66742X Hyd. Hose, 5/6" x 46" 66742X Hyd. Hose, 1/2" x 53" 37899X Hyd. Hose, 1/2" x 47" 66742X Hyd. Hose, 1/2" x 47" 66743X Hyd. Hose, 1/2" x 47"	2	37733X	4	Clamp Body, 5/8"	36	37821X	2	Hyd. Hose, 1/4" × 22"
P01312	3	37734X	4	Clamp Cover	37	P18996	1	Connector, O-Ring
P00407	4	37735X	4	Capscrew, Hx., 5/16"-18 × 1 3/4"	38	66746X	1	Hyd. Hose, 5/8" × 45"
P18964	5	P01312	4	Lockwasher, 1/2"	39	65469B	4	Hyd. Tube
34848B 1 Cylinder, Boom Extension (See Page 5.8.1 for Breakdown) P20465 4 Clamp, Hyd. Hose, 3/4" P27827 1 Valve, Counterbalance - 30 GPM P27827 1 Valve, Counterbalance - 30 GPM P3044 1 Valve, Counterbalance - 60 GPM P30927 Seal Kit for Item 10 P30444 1 Valve, Counterbalance - 60 GPM P30927 Seal Kit for Item 11 P30444 1 Valve, Counterbalance - 60 GPM P30927 Seal Kit for Item 11 P3044 1 Outch Counterbalance - 60 GPM P30927 Seal Kit for Item 11 P3044 1 Outch Counterbalance - 60 GPM P30927 Seal Kit for Item 11 P3045 1 Connector, O-Ring P47820 1 90° Elbow, O-Ring P47820 1 90° Elbow, O-Ring P47820 1 Pyd. Hose, 5/8" × 34" P4848 2 Hyd. Hose, 5/8" × 34" P4848 2 Hyd. Hose, 5/8" × 34" P4848 2 Hyd. Hose, 5/8" × 36" P4848 2 Hyd. Hose, 5/8" × 86" P4949 2 Hyd. Hose, 5/8" × 86" P4949 3 Franciscular Richard Rich	6	P00407	4	Capscrew, Hx., 1/2"-13 × 2 1/4"	40	65944A	2	Manifold, Hydraulic
P20465	7	P18964	9	Connector, O-Ring	41	P27937	4	Plug, O-Ring
P20465 4 Clamp, Hyd. Hose, 3/4" P27827 1 Valve, Counterbalance - 30 GPM P27827 1 Valve, Counterbalance - 30 GPM P30444 1 Valve, Counterbalance - 60 GPM P30444 1 Valve, Counterbalance - 60 GPM P30927 Seal Kit for Item 11 P3082 1 90° Elbow, O-Ring P17805 1 Connector, O-Ring P17805 1 Connector, O-Ring P17805 2 Hyd. Hose, 5/8" × 34" S7852X 2 Hyd. Hose, 5/8" × 34" S7847X 2 Hyd. Hose, 5/8" × 86" S7727X 4 Band, Power Grip Heat Shrink S7847X 2 Hyd. Tube, Boom P00013 4 Capscrew, Hx, 1/4"×20 × 3" 65482B 1 Hose Clamp, Hyd. Hose, 5/8" × 36" P01506 4 Nut, Hx, 1/4"×20 P27388 2 Connector, Tee 66745X 1 Hyd. Hose, 5/8" × 36" 66742X 1 Hyd. Hose, 5/8" × 36" 66742X 1 Hyd. Hose, 5/8" × 45" 66743X 1 Hyd. Hose, 5/8" × 46" P18864 2 Connector, O-Ring P18865 1 Connector, O-Ring P18866 2 Connector, O-Ring P18866 2 Connector, O-Ring P18866 2 Connector, O-Ring P18866 2 Connector, O-Ring	8	34848B	1	Cylinder, Boom Extension	42	37853X	2	Hyd. Hose, 1/2" × 326"
P27827 1 Valve, Counterbalance - 30 GPM				(See Page 5.8.1 for Breakdown)	43	P15406	2	Connector, O-Ring
F P40491 Seal Kit for Item 10 P30444 1 Valve, Counterbalance - 60 GPM P30927 Seal Kit for Item 11 P17802 1 90° Elbow, O-Ring P17805 1 Connector, O-Ring 37852X 2 Hyd. Hose, 5/8" × 34" 37849X 2 Hyd. Hose, 5/8" × 86" 37727X 4 Band, Power Grip Heat Shrink 37847X 2 Hyd. Hose, 5/8" × 91" P20466 4 Clamp, Hyd. Hose, 5/8" P00130 4 Capscrew, Hx., 1/4"-20 × 27388 2 Connector, Tee 66745X 1 Hyd. Hose, 5/8" × 36" 66745X 1 Hyd. Hose, 5/8" × 45" 66745X 1 Hyd. Hose, 5/8" × 45" 66745X 1 Hyd. Hose, 5/8" × 45" 66745X 1 Hyd. Hose, 5/8" × 36" 66745X 1 Hyd. Hose, 5/8" × 36" 66745X 1 Hyd. Hose, 5/8" × 45" 66745X 1 Hyd. Hose, 5/8" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 1 Connector, O-Ring P18966 1 Connector, O-Ring	9	P20465	4	Clamp, Hyd. Hose, 3/4"	44	P29947	1	Valve, Counterbalance, 15 GPM
P30444	10	P27827	1	Valve, Counterbalance - 30 GPM	REF	P40484		Seal Kit for Item 44
F P30927 Seal Kit for Item 11 P17802 1 90° Elbow, O-Ring P17805 1 Connector, O-Ring P17805 2 Hyd. Hose, 5/8" × 30" P17805 2 Hyd. Hose, 5/8" × 90" P17805 2 Hyd. Hose, 5/8" × 86" P17805 377847X 2 Hyd. Hose, 5/8" × 91" P17805 4 Clamp, Hyd. Hose, 5/8" P17805 4 Hose Clamp, Multiple P17805 4 Nut, Hx., 1/4"-20 P17805 4 Nut, Hx., 1/4"-20 P17805 4 Nut, Hx., 1/4"-20 P17805 4 Hyd. Hose, 5/8" × 45" P17805 4 Hyd. Hose, 5/8" × 45" P17805 4 Hyd. Hose, 1/2" × 47" P17805 4 Hyd. Hose, 1/2" × 47" P17805 4 Hyd. Hose, 1/2" × 47" P17805 4 Hyd. Hose, 5/8" × 45" P17805 4 Hyd. Hose, 1/2" × 47" P17805 4 Hyd. Hose, 5/8" × 45" P17805 4 Hyd. Hose, 5/8" × 45" P17805 4 Hyd. Hose, 1/2" × 47" P17805 4 Hyd. Hose, 1/2" × 47" P17805 5/8" × 45" P17805 5/8" ×	REF	P40491		Seal Kit for Item 10	45	65751B	1	Cylinder, Front Carriage Tilt
P17802 1 90° Elbow, O-Ring P17805 1 Connector, O-Ring 37852X 2 Hyd. Hose, 5/8" × 34" 37849X 2 Hyd. Hose, 5/8" × 90" 37848X 2 Hyd. Hose, 5/8" × 86" 37727X 4 Band, Power Grip Heat Shrink 37847X 2 Hyd. Hose, 1/2" × 91" P20466 4 Clamp, Hyd. Hose, 5/8" 65463B 2 Hyd. Tube, Boom P00013 4 Capscrew, Hx., 1/4"-20 × 3" 65482B 1 Hose Clamp, Multiple P01308 4 Lockwasher, 1/4" P01506 4 Nut, Hx., 1/4"-20 P27388 2 Connector, Tee 66742X 1 Hyd. Hose, 5/8" × 45" 66742X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 5/8" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 1 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 1 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring	11	P30444	1	Valve, Counterbalance - 60 GPM				(See Page 5.11.1 for Breakdown)
P17805 1 Connector, O-Ring 37852X 2 Hyd. Hose, 5/8" x 34" 37849X 2 Hyd. Hose, 5/8" x 86" 37849X 2 Hyd. Hose, 5/8" x 86" 37727X 4 Band, Power Grip Heat Shrink 37847X 2 Hyd. Hose, 1/2" x 91" P20466 4 Clamp, Hyd. Hose, 5/8" 65463B 2 Hyd. Tube, Boom P00013 4 Capscrew, Hx., 1/4"-20 x 3" 65482B 1 Hose Clamp, Multiple P01308 4 Lockwasher, 1/4" P01506 4 Nut, Hx., 1/4"-20 P27388 2 Connector, Tee 66745X 1 Hyd. Hose, 5/8" x 36" 66742X 1 Hyd. Hose, 5/8" x 45" 66742X 1 Hyd. Hose, 5/8" x 45" 66742X 1 Hyd. Hose, 1/2" x 7" 66743X 1 Hyd. Hose, 1/2" x 7" 66743X 1 Hyd. Hose, 5/8" x 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 1 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P19836 1 Connector, O-Ring	REF	P30927		Seal Kit for Item 11	46	66347B	1	Quick Coupler (Incl. dust caps & male connectors)
37852X 2 Hyd. Hose, 5/8" × 34" 37849X 2 Hyd. Hose., 5/8" × 90" 37848X 2 Hyd. Hose., 5/8" × 86" 37727X 4 Band, Power Grip Heat Shrink 37847X 2 Hyd. Hose, 1/2" × 91" P20466 4 Clamp, Hyd. Hose, 5/8" 65463B 2 Hyd. Tube, Boom P00013 4 Capscrew, Hx.,1/4"-20 × 3" 65482B 1 Hose Clamp, Multiple P01308 4 Lockwasher, 1/4" P01506 4 Nut, Hx., 1/4"-20 P27388 2 Connector, Tee 66745X 1 Hyd. Hose, 5/8" × 36" 66744X 1 Hyd. Hose, 5/8" × 45" 66742X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 5/8" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P19836 1 Connector, O-Ring	12	P17802	1	90° Elbow, O-Ring	47	P00404	1	Capscrew, Hx., 1/2"-13 × 1 1/2"
37849X 2 Hyd. Hose., 5/8" × 90" 37848X 2 Hyd. Hose., 5/8" × 86" 37727X 4 Band, Power Grip Heat Shrink 37847X 2 Hyd. Hose., 1/2" × 91" P20466 4 Clamp, Hyd. Hose, 5/8" 65463B 2 Hyd. Tube, Boom P00013 4 Capscrew, Hx.,1/4"-20 × 3" 65482B 1 Hose Clamp, Multiple P01308 4 Lockwasher, 1/4" P01506 4 Nut, Hx., 1/4"-20 P27388 2 Connector, Tee 66745X 1 Hyd. Hose, 5/8" × 36" 66744X 1 Hyd. Hose, 5/8" × 45" 66742X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 1/2" × 47" 66743X 1 Hyd. Hose, 1/2" × 47" 66743X 1 Hyd. Hose, 1/2" × 47" 66743X 1 Hyd. Hose, 1/2" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P19836 1 Connector, O-Ring	13	P17805	1	Connector, O-Ring	48	P01510	1	Nut, Hx., 1/2"-13
37848X 2 Hyd. Hose., 5/8" × 86" 37727X 4 Band, Power Grip Heat Shrink 37847X 2 Hyd. Hose, 1/2" × 91" P20466 4 Clamp, Hyd. Hose, 5/8" 65463B 2 Hyd. Tube, Boom P00013 4 Capscrew, Hx., 1/4"-20 × 3" 65482B 1 Hose Clamp, Multiple P01308 4 Lockwasher, 1/4" P01506 4 Nut, Hx., 1/4"-20 P27388 2 Connector, Tee 66745X 1 Hyd. Hose, 5/8" × 36" 66744X 1 Hyd. Hose, 5/8" × 45" 66742X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 5/8" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring P27384 2 Connector, O-Ring P19836 1 Connector, O-Ring	14	37852X	2	Hyd. Hose, 5/8" × 34"				
37727X	15	37849X	2	Hyd. Hose., 5/8" × 90"				
37847X 2 Hyd. Hose., 1/2" x 91" P20466 4 Clamp, Hyd. Hose, 5/8" 65463B 2 Hyd. Tube, Boom P00013 4 Capscrew, Hx.,1/4"-20 x 3" 65482B 1 Hose Clamp, Multiple P01308 4 Lockwasher, 1/4" P01506 4 Nut, Hx., 1/4"-20 P27388 2 Connector, Tee 66745X 1 Hyd. Hose, 5/8" x 36" 66744X 1 Hyd. Hose, 5/8" x 45" 66742X 1 Hyd. Hose, 1/2" x 53" 37899X 1 Hyd. Hose, 1/2" x 47" 66743X 1 Hyd. Hose, 5/8" x 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring Connector, O-Ring P19836 1 Connector, O-Ring P19836 1 Connector, O-Ring	16	37848X	2	Hyd. Hose., 5/8" × 86"				
P20466	17	37727X	4	Band, Power Grip Heat Shrink				
65463B 2 Hyd. Tube, Boom P00013 4 Capscrew, Hx.,1/4"-20 × 3" 65482B 1 Hose Clamp, Multiple P01308 4 Lockwasher, 1/4" P01506 4 Nut, Hx., 1/4"-20 P27388 2 Connector, Tee 66745X 1 Hyd. Hose, 5/8" × 45" 66744X 1 Hyd. Hose, 5/8" × 45" 66742X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 1/2" × 47" 66743X 1 Hyd. Hose, 5/8" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring, (Long) P19836 1 Connector, O-Ring	18	37847X	2	Hyd. Hose., 1/2" × 91"				
P00013	19	P20466	4	Clamp, Hyd. Hose, 5/8"				
65482B 1 Hose Clamp, Multiple P01308 4 Lockwasher, 1/4" P01506 4 Nut, Hx., 1/4"-20 P27388 2 Connector, Tee 66745X 1 Hyd. Hose, 5/8" × 36" 66744X 1 Hyd. Hose, 5/8" × 45" 66742X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 1/2" × 47" 66743X 1 Hyd. Hose, 5/8" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring, (Long) P19836 1 Connector, O-Ring	20	65463B	2	Hyd. Tube, Boom				
P01308	21	P00013	4	Capscrew, Hx.,1/4"-20 × 3"				
P01506	22	65482B	1	Hose Clamp, Multiple				
P27388 2 Connector, Tee 66745X 1 Hyd. Hose, 5/8" × 36" 66744X 1 Hyd. Hose, 5/8" × 45" 66742X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 1/2" × 47" 66743X 1 Hyd. Hose, 5/8" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring, (Long) P19836 1 Connector, O-Ring	23	P01308	4	Lockwasher, 1/4"				
66745X 1 Hyd. Hose, 5/8" × 36" 66744X 1 Hyd. Hose, 5/8" × 45" 66742X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 1/2" × 47" 66743X 1 Hyd. Hose, 5/8" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring, (Long) P19836 1 Connector, O-Ring	24	P01506	4	Nut, Hx., 1/4"-20				
66744X 1 Hyd. Hose, 5/8" × 45" 66742X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 1/2" × 47" 66743X 1 Hyd. Hose, 5/8" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring, (Long) P19836 1 Connector, O-Ring	25	P27388	2	Connector, Tee				
66742X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 1/2" × 47" 66743X 1 Hyd. Hose, 5/8" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring, (Long) P19836 1 Connector, O-Ring	26	66745X	1	Hyd. Hose, 5/8" × 36"				
66742X 1 Hyd. Hose, 1/2" × 53" 37899X 1 Hyd. Hose, 1/2" × 47" 66743X 1 Hyd. Hose, 5/8" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring, (Long) P19836 1 Connector, O-Ring	27		1					
37899X 1 Hyd. Hose, 1/2" × 47" 66743X 1 Hyd. Hose, 5/8" × 46" P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring, (Long) P19836 1 Connector, O-Ring	28		1					
P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring, (Long) P19836 1 Connector, O-Ring 644D-34 S/N 108–180	29	37899X	1					
P18964 2 Connector, O-Ring P27384 2 Connector, O-Ring, (Long) P19836 1 Connector, O-Ring	30	66743X	1	Hyd. Hose, 5/8" × 46"			_	
P27384 2 Connector, O-Ring, (Long) P19836 1 Connector, O-Ring	31	P18964	2	Connector, O-Ring	[644D-3	34 S/N 108–18	80	
P19836 1 Connector, O-Ring	32	P27384						
	33	P19836	1	- · · · - ·				
	34	37298X	2					



ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	
1	68117X	2	Hyd. Hose, 1/2" × 333"	35	69069B	1	Hyd. Tube, Boom, R/S Outer
2	37732X	4	Clamp Body, 3/4"	36	69078B	1	Hyd. Tube, Boom, L/S Inner
3	37734X	4	Clamp Cover	37	69079B	1	Hyd. Tube, Boom, L/S Outter
4	68743A	4	Setscrew., 5/16"-18 × 2 1/2"	38	37733X	2	Clamp Body, 5/8"
5	P01309	4	Lockwasher, 5/16"	39	P18964	2	Connector, O-Ring
6	P01507	4	Nut, Hx., 5/16"- 18	40	P27384	2	Connector, O-Ring, (Long)
7	P01312	4	Lockwasher, 1/2"	41	P18936	1	Connector, O-Ring
8	P00407	4	Capscrew, Hx., 1/2"-13 × 2 1/4"	42	37298X	2	Hyd. Hose, 3/8" × 18"
9	P18964	9	Connector, O-Ring	43	P19248	6	90° Elbow, O-Ring
10	69052C	1	Manifold, Hydraulic	44	P30173	1	Hyd. Hose, 1/4" × 20"
11	34848B	1	Cylinder, Boom Extension	45	P30174	2	Hyd. Hose, 1/4" × 16"
			(See Page 5.8.1 for Breakdown)	46	37821X	1	Hyd. Hose, 1/4" × 22"
12	P20465	4	Clamp, Hyd. Hose, 3/4"	47	P18935	3	90° Elbow, O-Ring
13	P27827	1	Valve, Counterbalance - 30 GPM	48	P18996	1	Connector, O-Ring
REF	P40491		Seal Kit for Item 13	49	68975A	4	Connector, Special
14	67580X	1	Valve, Counterbalance - 60 GPM	50	65944A	2	Manifold, Hydraulic
REF	P30927		Seal Kit for Item 14	51	P27937	4	Plug, O-Ring
15	P17802	1	90° Elbow, O-Ring	52	68123X	2	Hyd. Hose, 1/2" × 326"
16	P17805	1	Connector, O-Ring	53	P15406	2	Connector, O-Ring
17	68109X	1	Hyd. Hose, 5/8" × 40"	54	P27847	1	Valve, Counterbalance, 15 GPM
18	68110X	1	Hyd. Hose, 5/8" × 39"	REF	P40484		Seal Kit for Item 54
19	68984B	1	Hyd. Hose, 5/8" × 128"	55	65751B	1	Cylinder, Front Carriage Tilt
20	68988B	1	Hyd. Hose, 5/8" × 131"				(See Page 5.11.1 for Breakdown)
21	68987B	1	Hyd. Hose, 5/8" × 135"	56	66347B	1	Quick Coupler (Incl. dust caps & male connectors)
22	68990B	1	Hyd. Hose, 5/8" × 125"	57	P00404	1	Capscrew, Hx., 1/2"-13 × 1 1/2"
23	68989B	1	Hyd. Hose, 5/8" × 127	58	P01510	1	Nut, Hx., 1/2"-13
24	68983B	1	Hyd. Hose, 5/8" × 135				
25	P00013	2	Capscrew, Hx., 1/4"-20 × 3"				
26	P01402	2	Flatwasher, 1/4"				
27	68972A	1	Hose Clamp, Multiple				
28	P01308	2	Lockwasher 1/4"				
29	P01506		Nut, Hx., 1/4"-20				
30	P18924	2	90° Elbow, O-Ring				
31	P00208	3	Capscrew, Hx., 3/8"-16 × 2"	644D-3	34 S/N 181–13	341	
32	P01310	3	Lockwasher. 3/8"				
33	P01404	3	Flatwasher, 3/8"				
34	69068B	1	Hyd. Tube, Boom, R/S Inner				

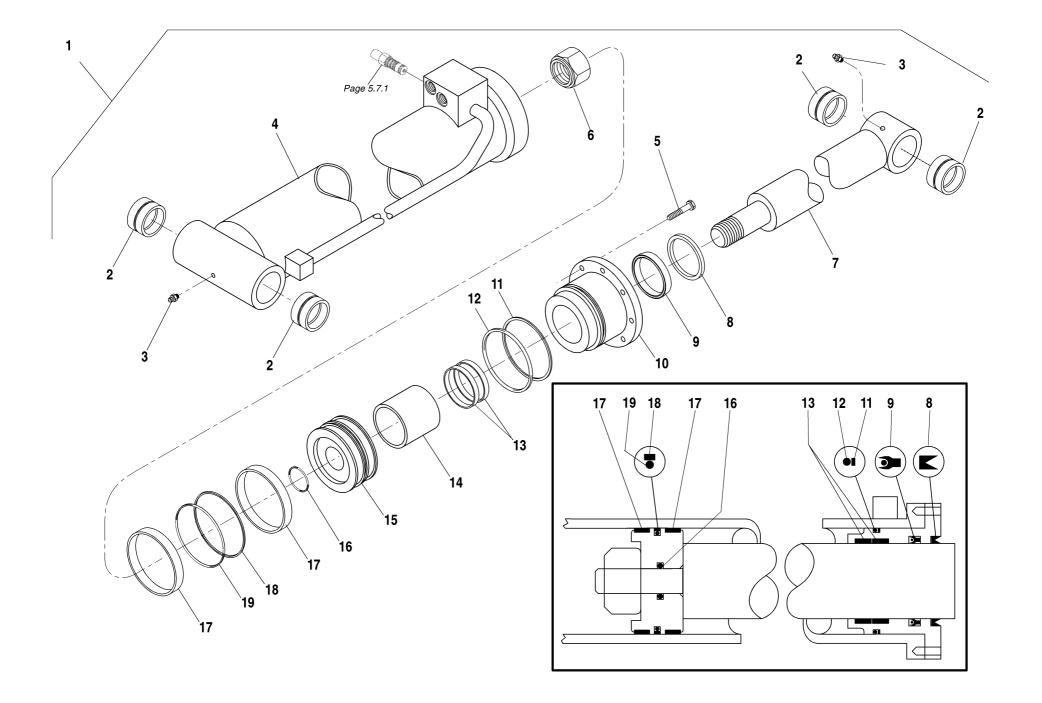


ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	
1	68117X	2	Hyd. Hose, 1/2" × 333"	35	69069B	1	Hyd. Tube, Boom, R/S Outer
2	37732X	4	Clamp Body, 3/4"	36	69078B	1	Hyd. Tube, Boom, L/S Inner
3	37734X	4	Clamp Cover	37	69079B	1	Hyd. Tube, Boom, L/S Outter
4	68743A	4	Setscrew., 5/16"-18 × 2 1/2"	38	37733X	2	Clamp Body, 5/8"
5	P01309	4	Lockwasher, 5/16"	39	P18964	2	Connector, O-Ring
6	P01507	4	Nut, Hx., 5/16"- 18	40	P27384	2	Connector, O-Ring, (Long)
7	P01312	4	Lockwasher, 1/2"	41	P18936	1	Connector, O-Ring
8	P00407	4	Capscrew, Hx., 1/2"-13 × 2 1/4"	42	P32436	1	Hyd. Hose, 3/8" × 18"
9	P18964	9	Connector, O-Ring	43	P19248	7	90° Elbow, O-Ring
10	69052C	1	Manifold, Hydraulic	44	37298X	1	Hyd. Hose, 1/4" × 18"
11	34848B	1	Cylinder, Boom Extension	45	P18960	2	Connector, O-Ring
			(See Page 5.8.1 for Breakdown)	46	37821X	1	Hyd. Hose, 1/4" × 22"
12	P20465	4	Clamp, Hyd. Hose, 3/4"	47	P18935	5	90° Elbow, O-Ring
13	P27827	1	Valve, Counterbalance - 30 GPM	48	P18996	1	Connector, O-Ring
REF	P40491		Seal Kit for Item 13	49	68975A	4	Connector, Special
14	67580X	1	Valve, Counterbalance - 60 GPM	50	65944A	2	Manifold, Hydraulic
REF	P30927		Seal Kit for Item 14	51	P27937	4	Plug, O-Ring
15	P17802	1	90° Elbow, O-Ring	52	68123X	2	Hyd. Hose, 1/2" × 326"
16	P17805	1	Connector, O-Ring	53	P15406	2	Connector, O-Ring
17	68109X	1	Hyd. Hose, 5/8" × 40"	54	P27847	1	Valve, Counterbalance, 15 GPM
18	68110X	1	Hyd. Hose, 5/8" × 39"	REF	P40484		Seal Kit for Item 54
19	68984B	1	Hyd. Hose, 5/8" × 128"	55	65751B	1	Cylinder, Front Carriage Tilt
20	68988B	1	Hyd. Hose, 5/8" × 131"				(See Page 5.11.1 for Breakdown)
21	68987B	1	Hyd. Hose, 5/8" × 135"	56	66347B	1	Quick Coupler (Incl. dust caps & male connectors)
22	68990B	1	Hyd. Hose, 5/8" × 125"	57	P00404	1	Capscrew, Hx., 1/2"-13 × 1 1/2"
23	68989B	1	Hyd. Hose, 5/8" × 127	58	P01510	1	Nut, Hx., 1/2"-13
24	68983B	1	Hyd. Hose, 5/8" × 135				
25	P00013	2	Capscrew, Hx., 1/4"-20 × 3"				
26	P01402	2	Flatwasher, 1/4"				
27	68972A	1	Hose Clamp, Multiple				
28	P01308	2	Lockwasher 1/4"				
29	P01506		Nut, Hx., 1/4"-20				
30	P18924	2	90° Elbow, O-Ring	0445	24.0/01.4040		
31	P00208	3	Capscrew, Hx., 3/8"-16 × 2"	644D-3	34 S/N 1342–		
32	P01310	3	Lockwasher. 3/8"				
33	P01404	3	Flatwasher, 3/8"				
34	69068B	1	Hyd. Tube, Boom, R/S Inner				



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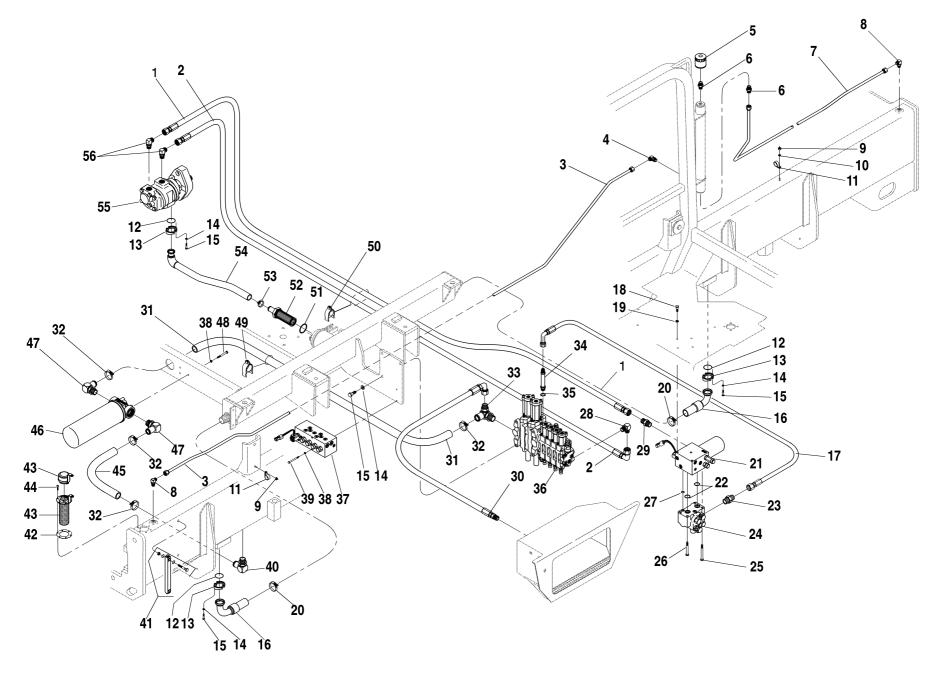
ITEM	PART NO.	QTY.	DESCRIPTION		
1	34848B	1	Cylinder Assembly, Boom Extension		Rev. (
2	P27993	4	O-Ring Plug		
3	68357X	1	Barrel Weldment		
4	P30667	1	Nut, Crownlock		
5	P16611	1	Grease Fitting		
6	68358X	1	Rod Assembly		
7	N.S.S.	1	* Wiper		
8	N.S.S.	1	*Seal		
9	68362X	8	Capscrew, Hx.,		
10	68361X	1	Head, Rod Bearing		
11	N.S.S.	2	★ Wear Ring		
12	N.S.S.	1	≭ Back-Up Ring		
13	N.S.S.	1	* O-Ring		
14	68359X	1	Stroke Limiter		
15	N.S.S.	2	≭ Back-Up Ring		
16	N.S.S.	1	★ O-Ring		
17	68360X	1	Piston		
18	N.S.S.	2	★ Wear Ring		
19	N.S.S.	2	≭ Back-Up Ring		
20	N.S.S.	1	*Piston Seal		
REF	68363X	1	Seal Kit		
NOTES	S: tems Included	in Seal	Kit.		
		N.S	S.S. = Not Sold Separately		
				644D-34 S/N 108-	



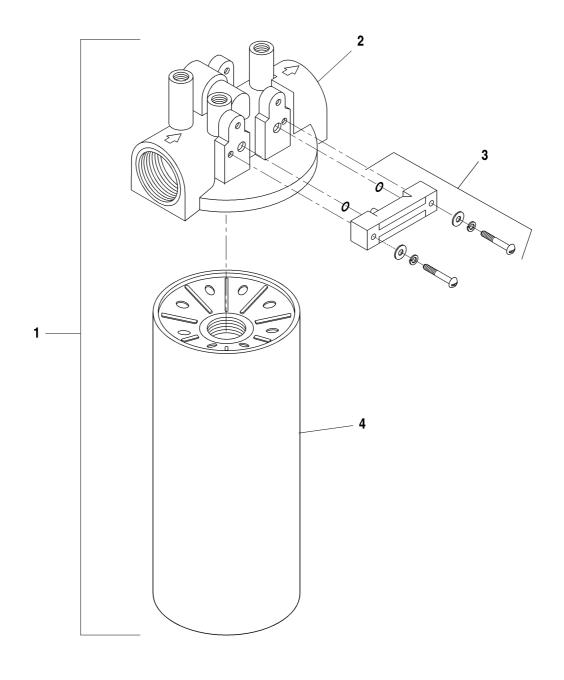
ITEM	PART NO.	QTY.	DESCRIPTION
1	65751B	1	Cylinder Assembly, Front Carriage Tilt
2	P19106	4	Bushing
3	P16611	2	Grease Fitting
4	68350X	1	Barrel Weldment
5	P40460	8	Capscrew, Hx.,
6	P27279	1	Nut, Crownlock
7	68351X	1	Rod Weldment
8	N.S.S	1	≭ Wiper
9	N.S.S	1	* Seal
10	P30674	1	Head, Rod Bearing
11	N.S.S	1	≭ Backup-Ring
12	N.S.S	1	* O-Ring
13	N.S.S	2	≭ Wear-Ring
14	68352X	1	Stroke Limiter
15	P29878	1	Piston
16	N.S.S	1	* O-Ring
17	N.S.S	1	≭ Wear Ring
18	N.S.S	1	≭ Backup-Ring
19	N.S.S	1	* O-Ring
Ref	P30653	1	Seal Kit
NOTE:	S: Items Included	in Seal	Kit.
			N.S.S. = Not Sold Separately
			, ,

Section 6 — Pump, Suction - Return and Valve Plate Components

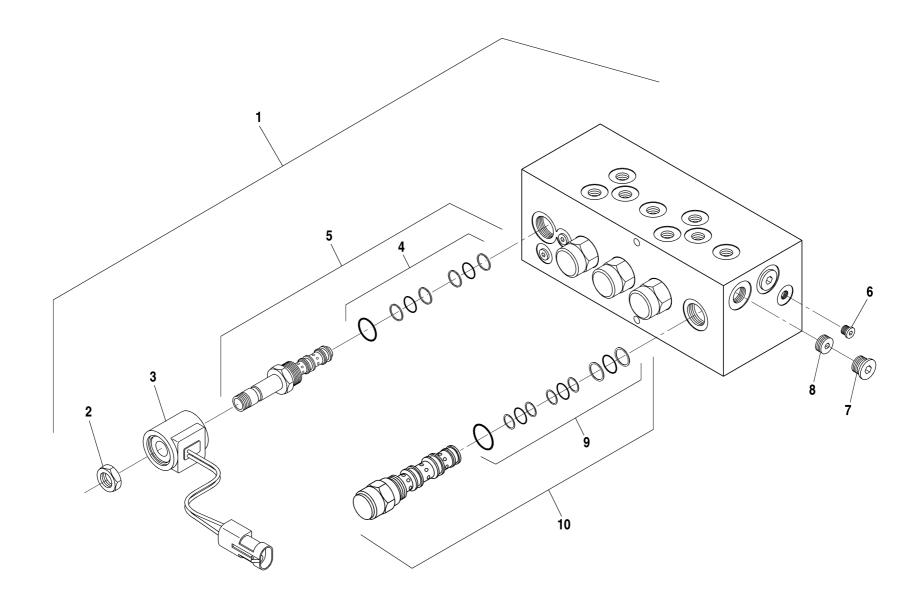
Pump, Suction - Return Hydraulic Circuit
Hydraulic Return Filter Assembly
Selector Valve Assembly
Pump Assembly 6.4.1
Hydraulic Control Valve Assembly
Valve Section Assembly (Boom)
Valve Section Assembly - Transfer/Auxiliary/Frame Tilt 6.7.1
Valve Section Assembly - Carriage Fork Tilt6.8.1
Relief Valve Assembly
Relief Valve Assembly Mid Inlet 6.10.1
Filter Mounting Block Asembly



ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	37193X	1	Hyd. Hose, 3/4" × 98"	36	67028B	1	Valve, Mid-Inlet 6 Section
2	P26621	1	Hyd. Hose, 3/4" × 112"				(See Pages 6.5.1-6.10.1 for Breakdown)
3	66927B	1	Hydraulic Tube, Breather Front	37	65597C	1	Valve, Selector (See Page 6.2.1 for Breakdown)
4	P18952	1	90° Connector	38	P01309	5	Lockwasher, 5/16"
5	39022A	1	Breather, Hydraulic Tank	39	P00125	2	Capscrew, Hx., 5/16"-18 × 4 1/4"
6	P18944	1	Connector	40	38985A	1	Elbow
7	66926B	1	Hydraulic Tube, Breather, Rear	41	P27809	1	Sight Gauge, Hydraulic Oil
8	P21173	2	90° Connector	42	68088X	2	Gasket
9	P01508	2	Nut, Hx., 3/8"-16	43	67891B	1	Filler Cap/ Strainer Assembly
10	P01310	2	Lockwasher, 3/8"				(Includes Item 42– 44)
11	P30249	2	Clamp	44	P03541	6	Tapping Screw, Slotted Rd, Hd,. 10-32 × 1/2"
12	P12971	2	O-Ring	45	66444X	1	Hose, 1 1/2" O.D., 16" Long
13	14315A	4	Flange, Half	46	37710X	1	Return Filter (See Page 6.2.1 for Breakdown)
14	P01312	11	Lockwasher, 1/2"	47	38985A	3	90° Adapter, O-Ring
15	P00404	11	Capscrew, Hx., 1/2"-13 × 1 1/2"	48	P00112	2	Capscrew, Hx., 5/16"-18 × 3"
16	65507A	2	Hose, Suction Frame	49	37696X	1	Cushion Clamp, 1 3/4"
17	P18922	1	Hyd. Hose, 3/4" × 24"	50	37000X	2	Cushion Clamp, 1 1/8"
18	P00202	3	Capscrew, Hx., 3/8"-16 × 3/4"	51	37698X	1	O-Ring
19	P01310	6	Lockwasher, 3/8"	52	67783A	1	Strainer, Hyd
20	67592X	4	Clamp, Hose, High Torque (Replaces P14043)	53	67593X	1	Hose Clamp
21	67680C	1	Valve, Filter Mounting	54	66754X	1	Hyd. Hose, Suction
			(See Page 6.11.1 for Breakdown)	55	67787D	1	Pump, Hydraulic
22	P40659	2	O-Ring				(See Page 6.4.1 for Breakdown)
23	P17805	1	Adapter, O-Ring	56	P17802	2	90° Elbow, O-Ring
24	66922C	1	Valve, Priority Charge				
REF	37083X	-	Repair Kit, Priority Charge Valve				
25	P01826	2	Capscrew, Socket Hd., 3/8"-16 × 3"				
26	P01822	2	Capscrew, Socket Hd., 3/8"-16 × 2"				
27	P22254	1	O-Ring				
28	P19055	1	Connector, O-Ring				
29	P17805	1	Adapter, O-Ring				
30	66756X	1	Hyd. Hose,				
31	66443X	1	Hyd. Hose, 1 1/2" × 57"		A 0/N 400		
32	P14043	4	Hose Clamp	644D-3	84 S/N 108-		
33	67743B	1	Adapter, Tee				
34	39537A	1	Adapeter (Long)				
35	10728957	1	O-Ring				



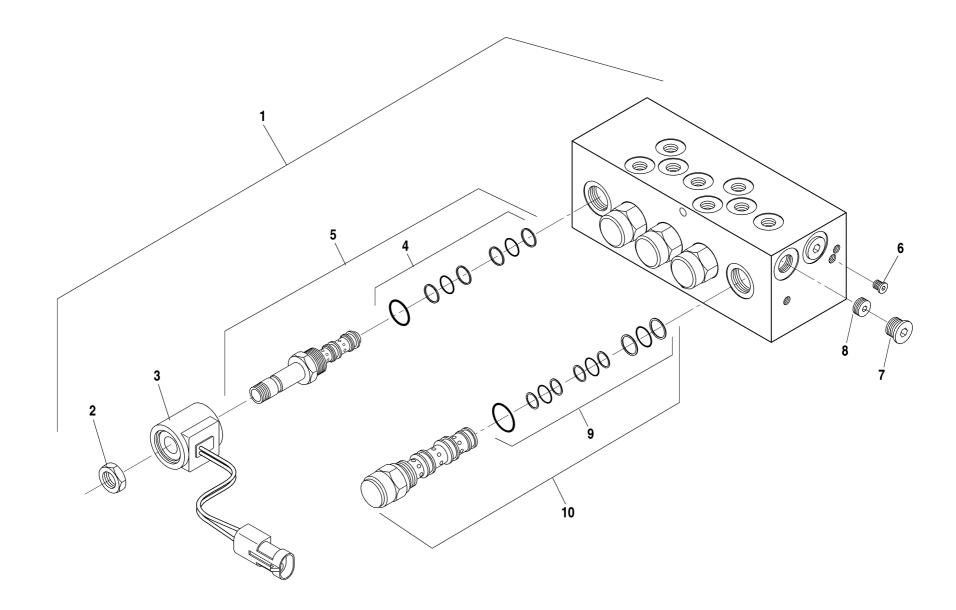
ITEM	PART NO.	QTY.	DESCRIPTION		
1	37710X	1	Return Filter Assembly		Rev. 000
2	N.S.S.	1	Head Assembly		
3	68378X	1	Indicator Assembly (Includes Mounting Hardwear)		
4	68379X	1	Filter		
		NI C	NO. Net Celd Consentation		
		IN.S	S.S. = Not Sold Separately		
					4
				644D-34 S/N 108–	
					1
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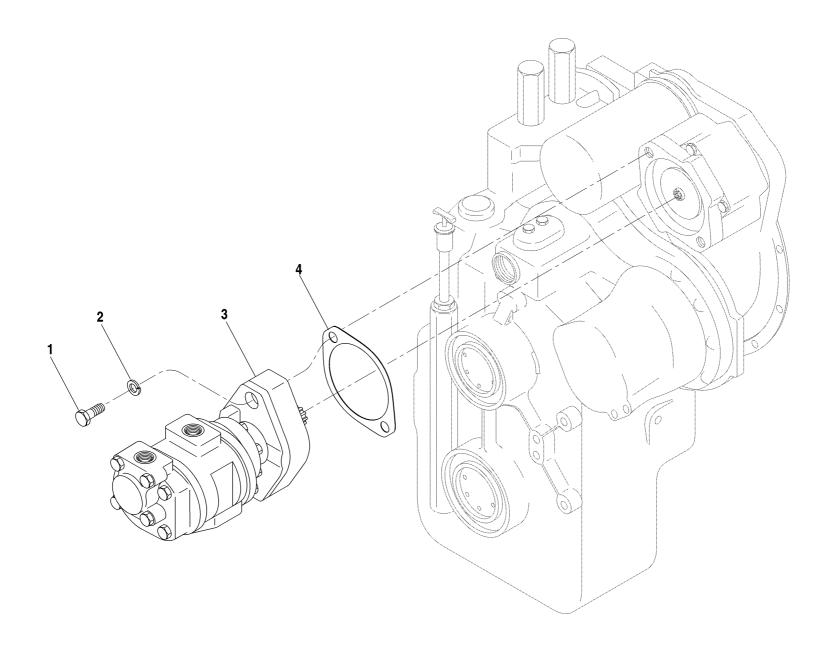
6.3.1 Rev. 005

06A-9001 Rev. 005

1	65597C	1	Selector Valve	
2	P40662	1	Nut	
3	38329A	1	Coil	
4	37355X	1	Seal Kit	
5	37352X	1	Solenoid Valve	
6	P27931	4	Plug, Hollow Hex, SAE #2	
7	P27933	4	Plug, Hollow Hex, SAE #4	
8	37571X	4	Orifice Plug	
9	37005X	4	Seal Kit	
10	37764X	4	Valve, Piloted, 3-Way	
			CAAD OA C/N 400	1041
			644D-34 S/N 108	134 l

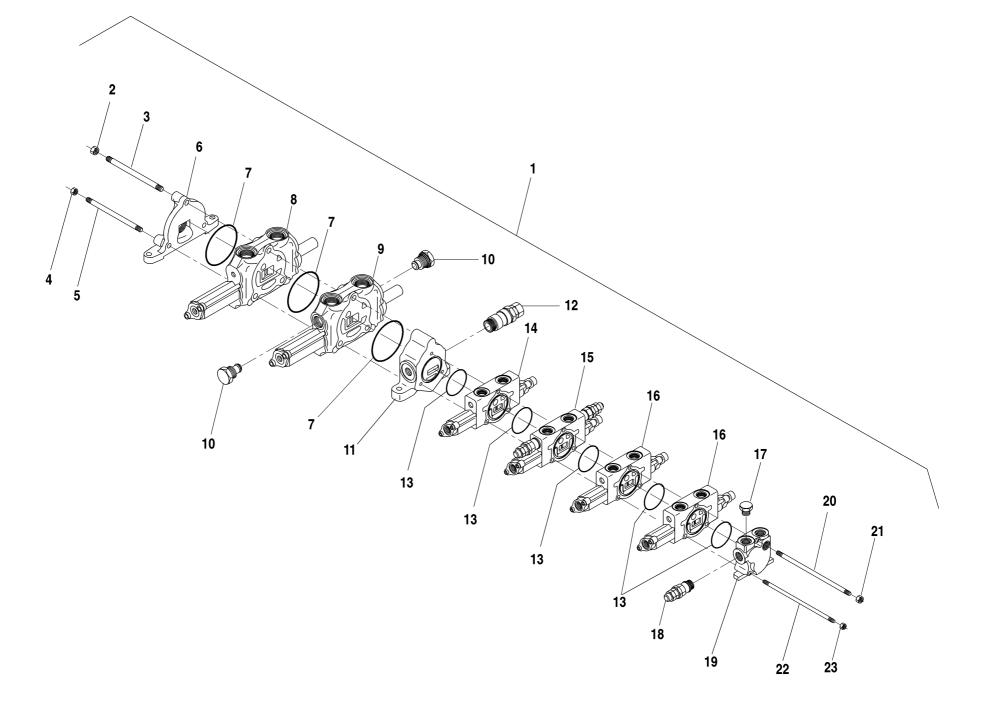


ЕМ	PART NO.	QTY.	DESCRIPTION	
1	1100061	1	Selector Valve	F
2	P40662	1	Nut	
3	38329A	1	Coil	
1	37355X	1	Seal Kit	
5	37352X	1	Solenoid Valve	
;	P27931	4	Plug, Hollow Hex, SAE #2	
	P27933	4	Plug, Hollow Hex, SAE #4	
}	37571X	4	Orifice Plug	
)	1100339	4	Seal Kit	
0	1100372	4	Valve, Piloted, 3-Way	
				CAAD 24 C/N 1240
				644D-34 S/N 1342–



06A-4001 Rev. 000

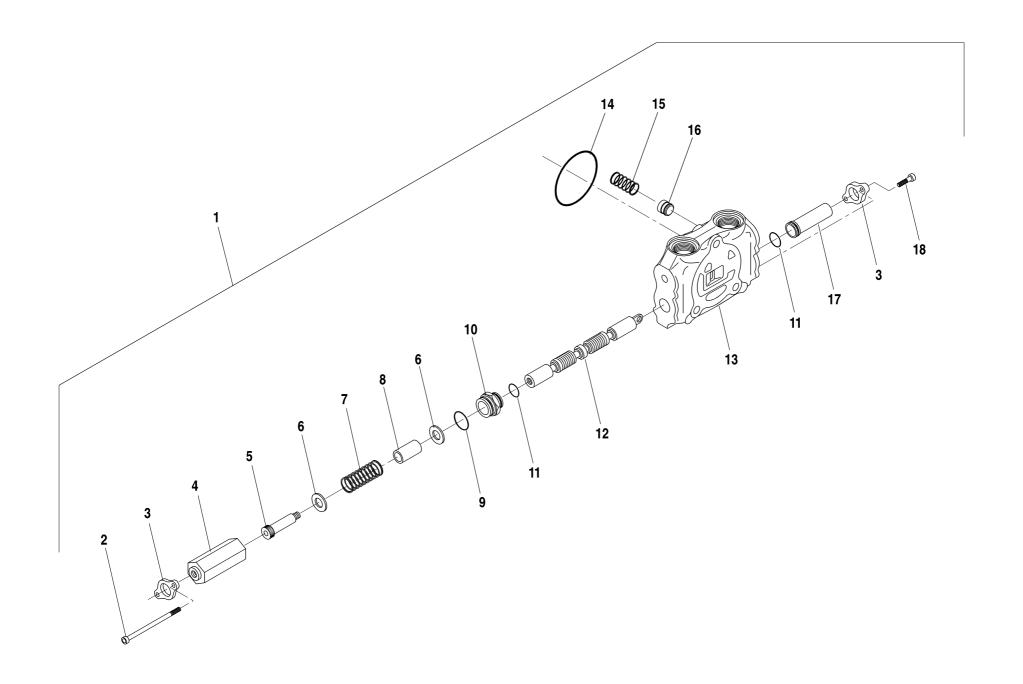
ITEM	PART NO.	QTY.	DESCRIPTION		
1	P00409	2	Capscrew, Hx., 1/2"-13 × 2 3/4"		Rev. 000
2	P01312	2	Lockwasher, 1/2"		
3	67787D	1	Pump, Hydraulic		
4	P19921	1	Gasket (Replaces 67522X O-Ring)		
					1
				644D-34 S/N 108–	1
					Ì
					-
					644D



6.5.1 Rev. 000

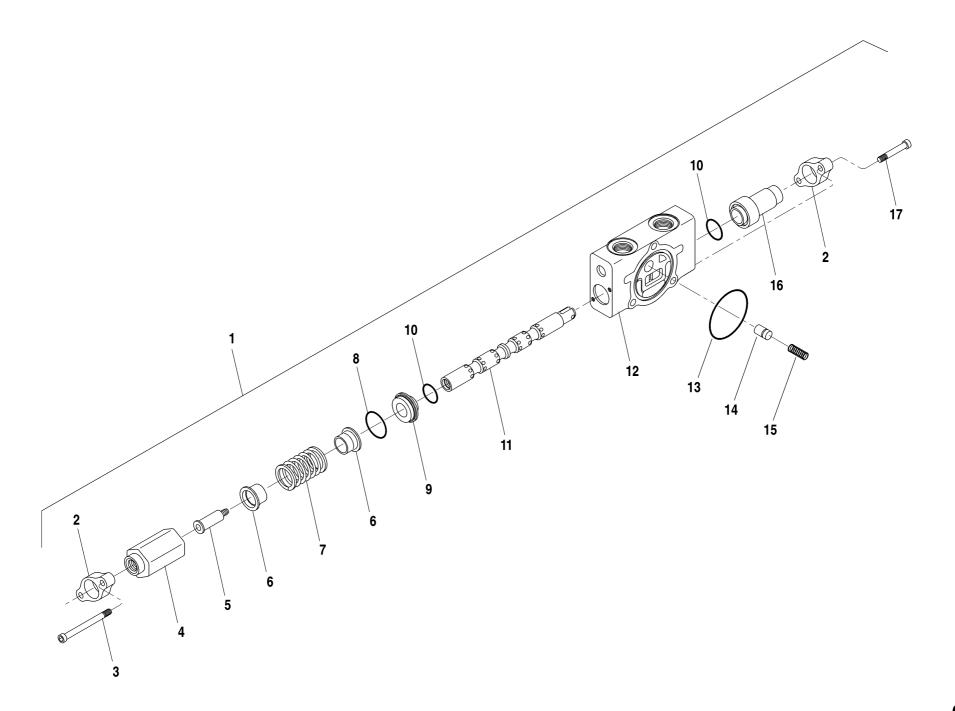
06-9016 Rev. 00

ITEM	PART NO.	QTY.	DESCRIPTION
1	67028B	1	6 Section Mid-Inlet Valve Assembly
2	P05029	1	Locknut, Hx., 1/2"-20 Grade C
3	37909X	1	Tie Rod, 1/2"-20
4	P05028	2	Locknut, Hx., 7/16"-20 Grade C
5	37910X	2	Tie Rod, 7/16"-20
6	37902X	1	Outlet Section
7	P91782	3	O-Ring
8	37908X	1	Valve Section Assembly - Boom Extension
			(See Page 6.6.1 for Breakdown)
9	37907X	1	Valve Section Assembly - Boom Hoist
			(See Page 6.6.1 for Breakdown)
10	37953X	2	Shut-Off Plug
11	37901X	1	Mid-Inlet Section
12	37952X	1	Relief Valve Assembly
			(See Page 6.10.1 for Breakdown)
13	37923X	0	O-Ring
14	37904X	3	Valve Section Assembly - Frame Tilt
			(See Page 6.7.1 for Breakdown)
15	37906X	1	Valve Section Assembly - Carriage Fork Tilt
			(See Page 6.8.1 for Breakdown)
16	37905X	2	Valve Section Assembly - Transfer/Auxilliary
			(See Page 6.7.1 for Breakdown)
17	P15447	1	O-Ring Plug, Hex
18	37951X	1	Relief Valve Assembly
			(See Page 6.9.1 for Breakdown)
19	37900X	1	Inlet Section
20	37919X	1	Tie Rod, 3/8"-24 (For 6 Section Valve)
21	P05027	1	Locknut, Hx., 3/8"-24 Grade C
22	37913X	2	Tie Rod, 5/16"-18 (For 6 Section Valve)
23	P05001	2	Locknut, Hx., 5/16"-18 Grade C
NOT	- 0.		
NOTI	ES: 5 Required for	6 Sactio	n Valve
U	riequireu ioi	o Secilo	nii vaive.



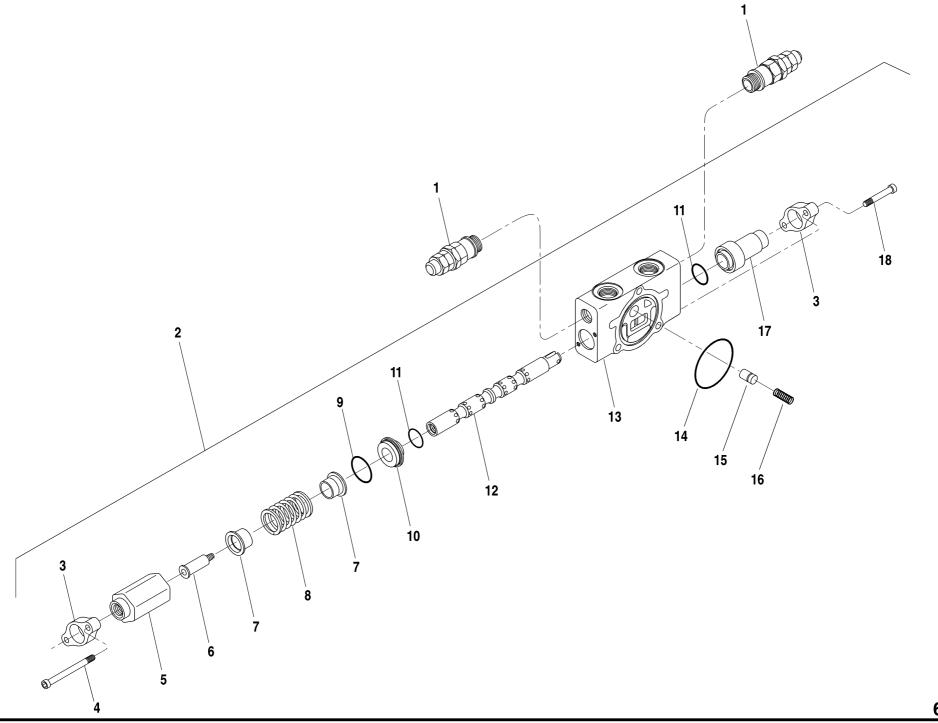
6.6.1Rev. 000

<u>TEM</u> 1	PART NO.	QTY.	
	37907X 37908X		-
	7908X 01766	- 2	١
P32927 2 Reta			screw, Socket Hd., 1/4"-20 iner
l	P32929	1	Cap, Spool
;	P21701	1	Shoulder Bolt, Socket Hd., 1/2" Dia. \times 2"
6	P91776	2	Washer, Flat
7	P91777	1	Spring
8	P91778	1	Spacer
9	P32931	1	O-Ring
10	P32930	1	Retainer, Spool Cap
11	P91781	2	O-Ring
12	N.S.S.	1	Spool
13	N.S.S.	1	Housing
14	P91782	1	O-Ring
15	P91783	1	Spring
16	P91784	1	Poppet
17	P32928	1	Cap, Spool
18	P01755	2	Capscrew, Socket Hd., $1/4$ "-20 \times 1"
			N.C.C. Net Celd Consentative
			N.S.S. = Not Sold Separately



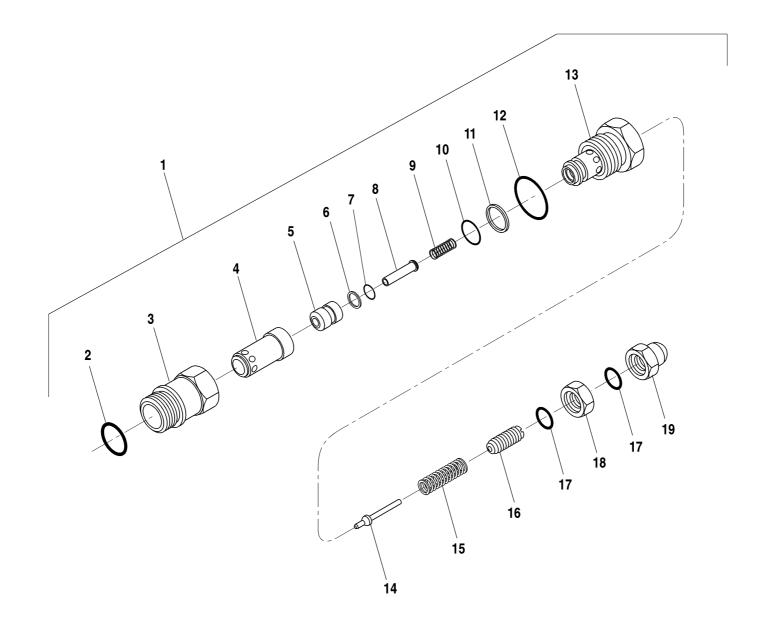
6.7.1 Rev. 000

EM	PART NO.	QTY.	DESCRIPTION	
	37905X	-	Valve Section Assembly - Transfer/Auxiliary	
	37904X	-	Valve Section Assembly - Frame Tilt/Outriggers	
	37962X	2	Plate, Seal	
}	P01763	2	Capscrew, Socket Hd., $1/4$ "-20 \times 3"	
Ļ	37960X	1	Cap, Spool	
5	37964X	1	Spool End	
3	37965X	2	Seat, Spring	
7	37941X	1	Spring	
8	37924X	1	O-Ring	
9	37963X	1	Retainer, Spool Cap	
10	37925X	2	O-Ring	
1	N.S.S.	1	Spool	
2	N.S.S.	1	Housing	
3	37923X	1	O-Ring	
4	37929X	1	Poppet	
5	37937X	1	Spring	
6 7	37961X P01757	1	Cap, Spool Capscrew, Socket Hd., 1/4"-20 × 1 1/2"	
			N.S.S. = Not Sold Separately	
				644D-34 S/N 108–



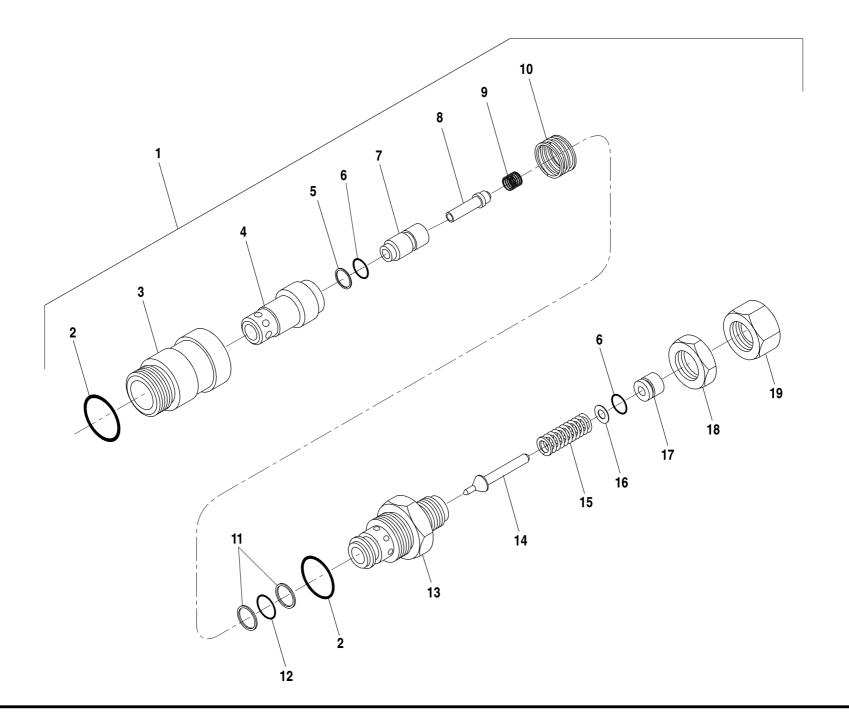
6.8.1 Rev. 000

ITEM	PART NO.	QTY.		_,	
1	37950X	2	Relief Valve Assembly		
			(See Page 6.9.1 for Breakdown)		
2	37906X	-	Valve Section Assembly - Carriage Fork Tilt		
			(Includes Items 3 - 18)		
3	37962X	2	Plate, Seal		
4	P01763	2	Capscrew, Socket Hd., $1/4$ "-20 \times 3"		
5	37960X	1	Cap, Spool		
6	37964X	1	Spool End		
7	37965X	2	Seat, Spring		
8	37941X	1	Spring		
9	37924X	1	O-Ring		
10	37963X	1	Retainer, Spool Cap		
11	37925X	2	O-Ring		
12	N.S.S.	1	Spool		
13	N.S.S.	1	Housing		
14	37923X	1	O-Ring		
15	37929X	1	Poppet		
16	37937X	1	Spring		
17	37961X	1	Cap, Spool		
18	P01757	2	Capscrew, Socket Hd., 1/4"-20 x 1 1/2"		
			·		
					1
			N.S.S. = Not Sold Separately		
			14.0.0 140t Oold Ooparatory		1
					644D-34 S/N 108-

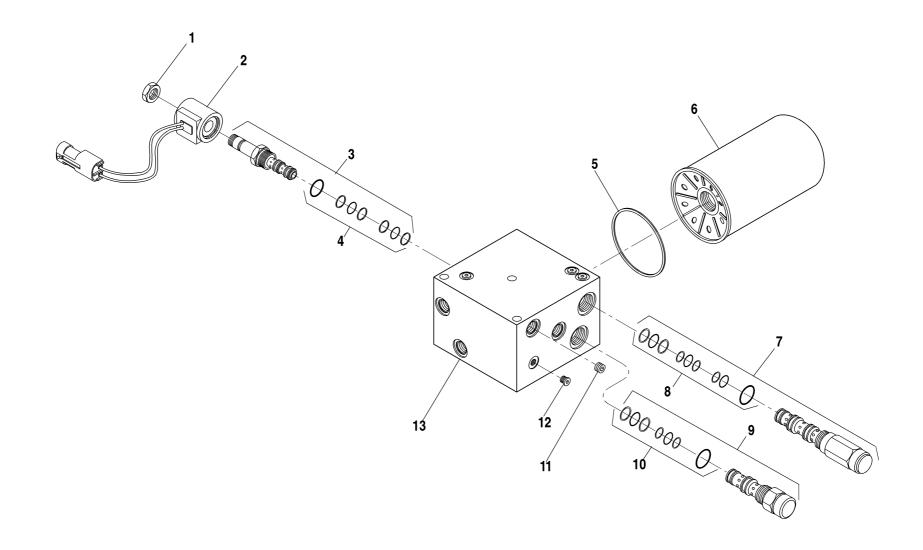


TEM	PART NO.	QTY.	DESCRIPTION		3 D- ^
1	37950X	2	Relief Valve Assembly - 2800 P.S.I.		Rev. 0
	37951X	1	Relief Valve Assembly - 3150 P.S.I.		
2	37928X	1	O-Ring		
3	37946X	1	Body		
4	37932X	1	Poppet		
5	37931X	1	Poppet		
6	37944X	1	Back-up Ring		
7	37926X	1	O-Ring		
8	37947X	1	Piston		
9	37938X	1	Spring		
10	P91796	1	O-Ring		
11	37943X	1	Back-up Ring		
12	37927X	1	O-Ring		
13	37945X	1	Plug		
14	37930X	1	Poppet		
15	37936X	1	Spring		
16	37942X	1	Screw, Adjustment		
17	P91805	2	O-Ring		
18	P91806	1	Nut, Special		
19	P91807	1	Nut, Special		
REF	37948X	1	Seal and Spring Kit (Includes Items 2, 6, 7, 9, 10, 11, 12, 15, 17)		
				644D-34 S/N 108–	
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ITEM	PART NO.	QTY.	DESCRIPTION		_
1	37952X	1	Relief Valve Assembly		Rev. 000
2	P91791	2	O-Ring		
3	P91792	1	Body		
4	37935X	1	Poppet		
5	P91795	1	Back-up Ring		
6	P91796	2	O-Ring		
7	37933X	1	Poppet		
8	37957X	1	Piston		
9	P91798	1	Spring		
10	37940X	1	Spring		
11	P91800	1	Back-up Ring		
12	P91799	1	O-Ring		
13	37958X	1	Plug		
14	37934X	1	Poppet		
15	37939X	1	Spring		
16	37959X	A/R	Shim		
17	37954X	1	Plug, Adjustment		
18	37956X	1	Nut, Special		
19	37955X	1	Nut, Special		
REF	37949X	1	Seal and Spring Kit		
			(Includes Items 2, 5, 6, 9, 10, 11, 12, 15)		
				644D-34 S/N 108–	†
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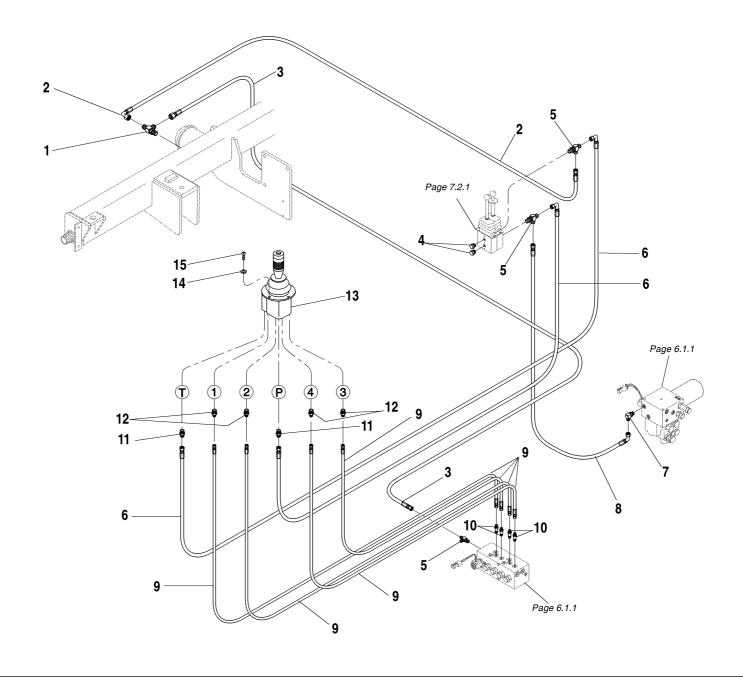


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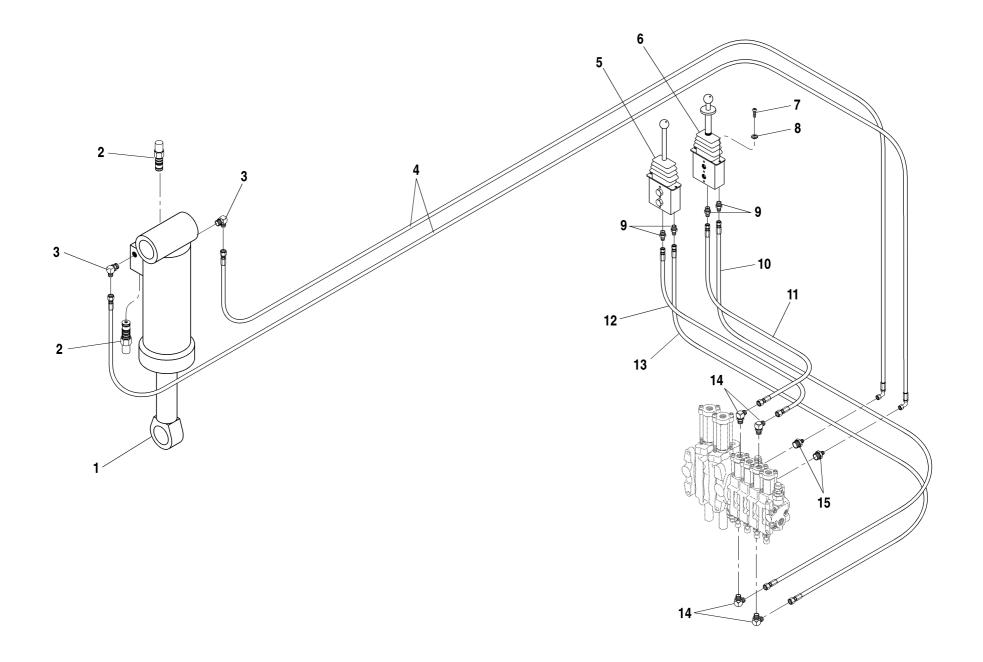
ГЕМ	PART NO.	QTY.	DESCRIPTION	
1	P40662	1	Nut	R
2	38329A	1	Coil Assembly	
3	37352X	1	Solenoid Valve	
4	37355X	1	Seal Kit	
5	1100331	1	Seal, Filter	
6	67527X	1	Filter Element, Spin On	
7	37002X	1	Valve Pressure Reducing	
8	37003X	1	Seal Kit	
9	37004X	1	Valve, Piloted, 3-Way	
10	37005X	1	Seal Kit	
11	67528X	1	Orifice Plug	
12	P27931	5	Hex Plug, Hollow SAE #2	
13	N.S.S.	-	Filter Block Assembly	
				644D-34 S/N 108–

Section	7 —	Control	Hydrau	lics
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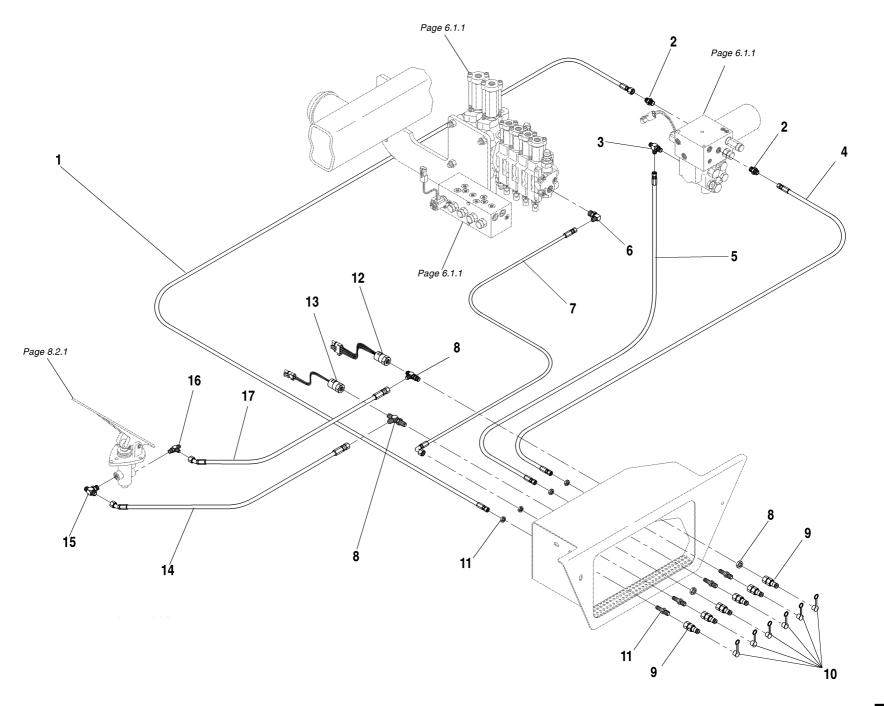
Joystick Control Hydraulic Circuit	7.1.1
Frame Tilt & Auxilliary Hydraulic Circuit	7.2.1
Test Port Hydraulics Circuit	7.3.1
Joystick Control Valve Assembly	7.4.1
Frame Tilt Control Valve Assembly	7.5.1
Auxilliary Control Valve Assembly	7.6.1
Frame Tilt Cylinder Assembly	.7.7.1



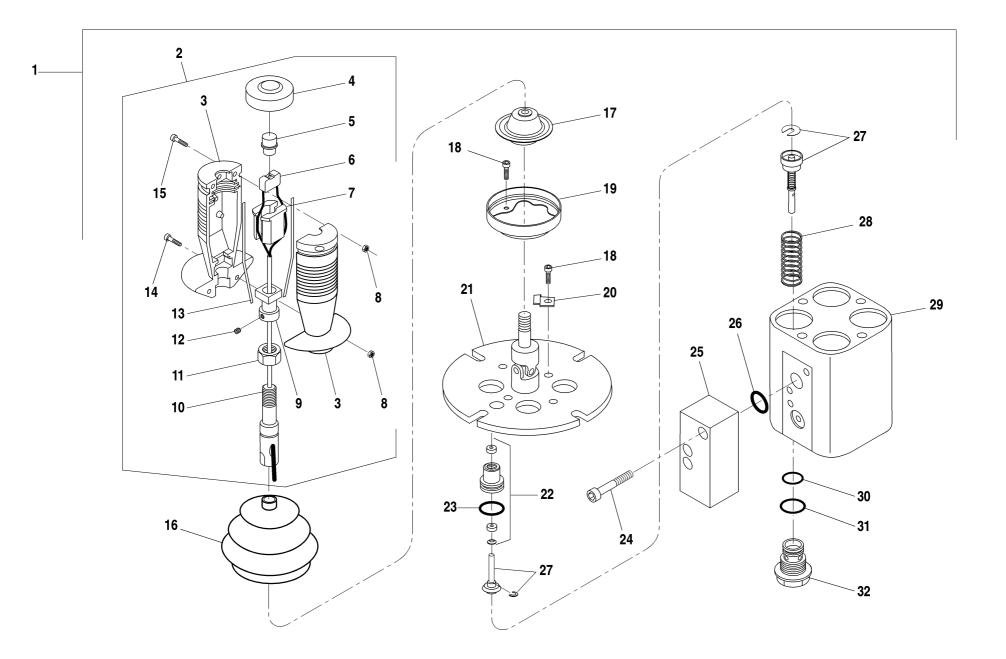
1	P21219	1	Adapter, Tee
2	66737X	1	Hyd. Hose, 3/8" ×
3	P29768	1	Hyd. Hose, 3/8" × 16
4	P25691	2	Plug, O-Ring
5	P21914	3	Tee, Run, O-Ring
6	P33059	2	Hyd. Hose, 1/4" × 22"
7	P18935	1	90° Elbow, O-Ring
8	P29195	1	Hyd. Hose, 3/8" × 22"
9	37874X	4	Hyd. Hose, 3/8" × 23"
10	P28146	4	Connector, O-Ring (Long)
11	P18936	2	Connector, O-Ring
12	P24612	2	Connector, O-Ring
13	65474B	1	Joystick Control Valve
			(See Page 7.4.1 for Breakdown)
14	P01357	4	Starwasher, 1/4" External
15	P03196	4	Capscrew, Button Hd. Socket, $1/4$ "-20 \times 3/4"



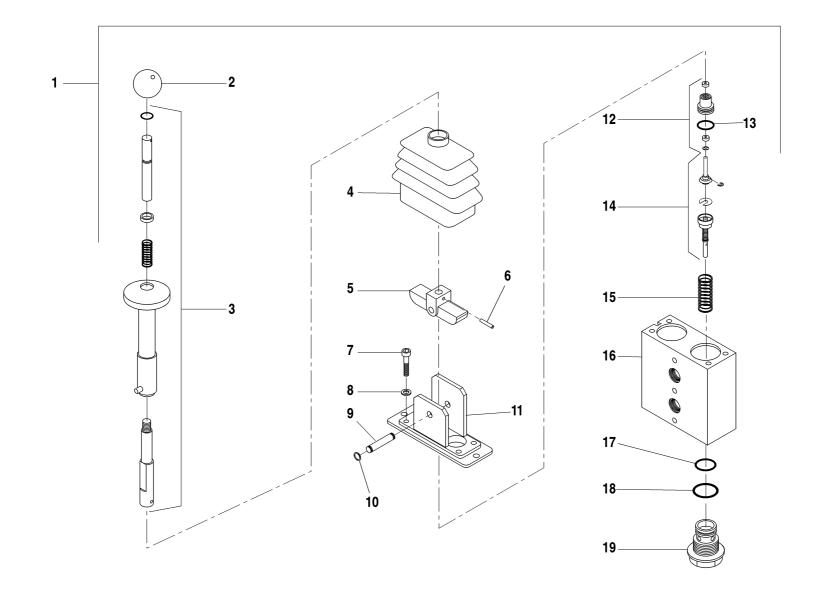
ITEM	PART NO.	QTY.	DESCRIPTION
1	65213B	1	Cylinder, Frame Tilt
			(See Page 7.7.1 for Breakdown)
2	P29947	2	Cartridge, Counterbalance Valve
REF	P40490	-	Seal Kit for Item 2
3	P19724	2	90° Elbow
4	37877X	2	Hyd. Hose, 1/4" × 125"
5	65848B	1	Control Valve, Auxillary
			(See Page 7.6.1 for Breakdown)
6	P31443	1	Control Valve, Frame Tilt
			(See Page 7.5.1 for Breakdown)
7	P03196	4	Capscrew, Button Hd. Socket, $1/4$ "-20 \times 3/4"
8	P01357	4	Starwasher, 1/4" External
9	P24612	4	Connector, O-Ring
10	37875X	1	Hyd. Hose, 1/4" × 28"
11	P25852	1	Hyd. Hose, 1/4" × 19"
12	37876X	1	Hyd. Hose, 1/4" × 21"
13	P29152	1	Hyd. Hose, 1/4" × 30"
14	P18935	4	90° Elbow, O-Ring
15	P25697	2	Connector, O-Ring
l			



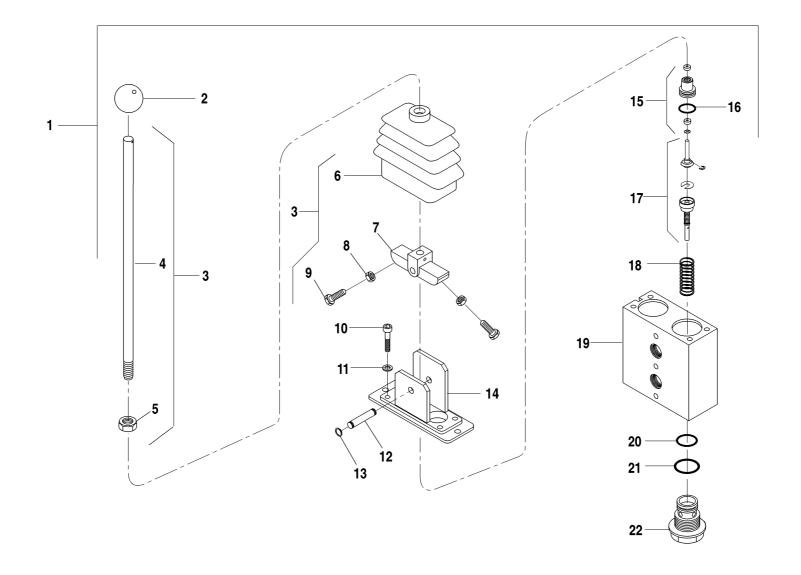
TEM	PART NO.	QTY.	DESCRIPTION	
1	P25861	1	Hyd. Hose, 1/4" x 41"	
2	P18936	1	Connector, O-Ring	
3	P26604	1	Run, Tee	
4	66733X	1	Hyd. Hose, 1/4" x 26"	
5	P27164	1	Hyd. Hose, 1/4" x 19"	
6	P24609	1	90° Elbow	
7	P26625	1	Hyd. Hose, 1/4" x22"	
8	P25302	2	Tee, Bulkhead	
9	P27374	8	End Tube, Nipple	
10	P27805	8	Dust Cap	
11	P18948	4	Connector, Bulkhead	
12	66680A	1	Switch, Pressure-D.P.S.T. Normally Closed,	
			850 P.S.I Low Brake Pressure	
13	66679A	1	Switch, Pressure-S.P.S.T. Normally Open,	
			250 P.S.I Brake Pressure	
	67062A	-	Switch, Pressure-S.P.S.T. Normally Open,	
			250 P.S.I Use w/ Roadway Lights	
14	66731X	1	Hyd. Hose, 3/8" x 15"	
15	P18985		Tee, Branch O-Ring	
16	P21918		Tee, O-Ring	
17	P25872	1	Hyd. Hose, 3/8" x 23"	
				644D-34 S/N 108–



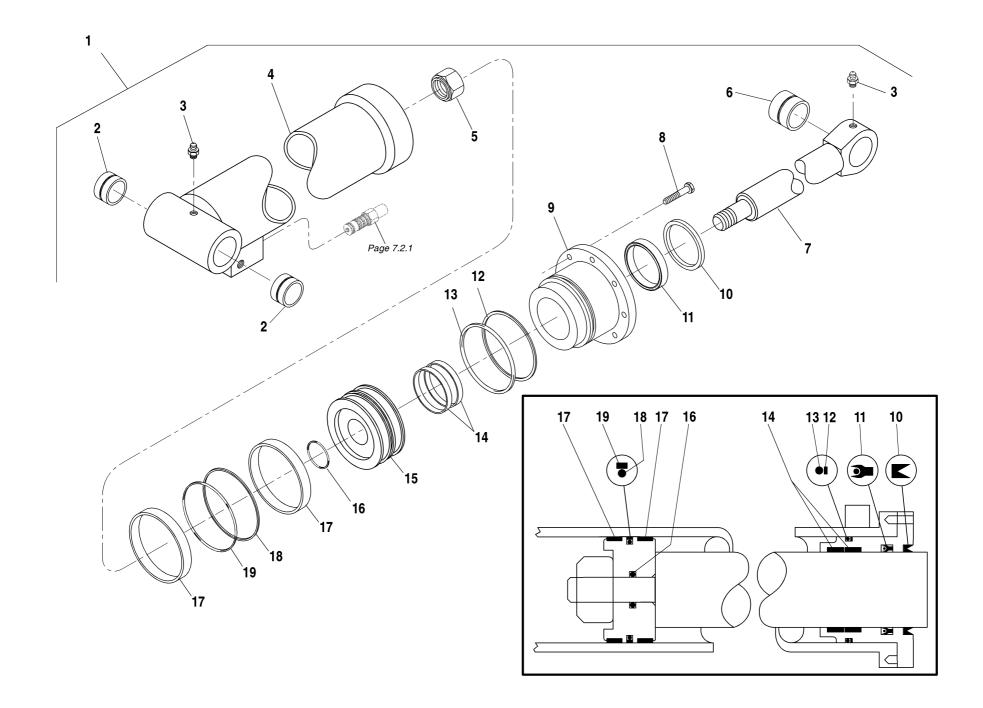
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM PART NO. QTY. DESCRIPTION
1	65474B	1	Joystick Control Valve	Rev. 0
2	P32693	1	Handle Assembly (Includes Items 3–15)	REF P32578 1 Seal Kit (Includes Items 23, 26, 30, 31)
3	P33095	2	Handle, Half	
4	P31489	1	Сар	
5	P32206	1	Button, Push	
6	P31598	1	Switch	NOTES:
7	N.S.S.	2	Guide	Available in Hardware Kit P31487.
8	ON.S.S.	4	Nut	Available in Seal Kit P32578.
9	N.S.S.	1	Lever Joint	
10	N.S.S.	1	Stem	
11	ON.S.S.	1	Locknut	
12	ON.S.S.	1	Setscrew	
13	N.S.S.	2	Seal	
14	ON.S.S.	2	Capscrew, Socket Hd.	
15	ON.S.S.	2	Capscrew, Socket Hd.	
16	P31477	1	Boot	N.O.O. Net Oald Oanswitch
17	P33094	1	Cam	N.S.S. = Not Sold Separately
18	P31472	6	Capscrew, Socket Hd.	
19	P32204	1	Retainer	
20	P32205	4	Clip	
21	P31473	1	Flange	
22	P31462	4	Guide Assembly	
23	⊘ N.S.S.	1	O-Ring	
24	P31475	3	Capscrew, Socket Hd.	
25	P32203	1	Manifold	
26	⊘ N.S.S.	1	O-Ring	
27	P32201	1	Spring Pack	
28	P32215	4	Spring	
29	N.S.S.	1	Body	
30	❷ N.S.S.	4	O-Ring	
31	❷ N.S.S.	4	O-Ring	
32	P32202	4	Ported Guide	
				644D-34 S/N 108–
REF	P31487	1	Hardware Kit, Joystick Handle (Includes items 8, 11, 12, 14, 15)	



ITEM	PART NO.	QTY.	DESCRIPTION		
1	P31443	1	Frame Tilt Control Valve Assembly		٦۶
2	P32543	1	Knob		
3	P32545	1	Lever Assembly		
4	P32544	1	Boot, Rubber		
5	P32546	1	Cam (Includes Item 6)		
6	P32547	1	Pin		
7	P32548	4	Capscrew		
8	P32549	4	Washer		
9	P31463	1	Pivot Pin (Includes Item 10)		
10	P31464	2	Circlip		
11	P32209	1	Flange		
12	P31462	2	Guide Assembly		
13	N.S.S.	1	O-Ring		
14	P32201	2	Spring Pack		
15	P31474	2	Spring		
16	N.S.S.	1	Body		
17	N.S.S.	2	O-Ring		
18	N.S.S.	2	O-Ring		
19	P32202	2	Ported Guide		
REF	P33168	1	Seal Kit (Includes Items 13, 17, 18)		
			N.S.S. = Not Sold Separately		
				644D-34 S/N 108-	7
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ITEM	PART NO.	QTY.	DESCRIPTION		_
1	P31444	2	Auxilliary Control Valve Assembly		Rev.
2	P32543	1	Knob		
3	P32207	1	Lever Kit (Includes Items 4-9)		
4	P32211	1	Lever		
5	P32212	1	Nut, Metric		
6	P32544	1	Boot, Rubber		
7	P32208	1	Cam		
8	P32213	2	Jam Nut, Metric		
9	P32214	2	Capscrew		
10	P32548	4	Capscrew, Socket Hd.		
11	P32549	4	Washer		
12	P31463	1	Pivot Pin (Includes Item 10)		
13	P31464	2	Circlip		
14	P32210	1	Flange		
15	P31462	1	Guide Assembly		
16	N.S.S.	1	O-Ring		
17	P32201	1	Spring Pack		
18	P32215	1	Spring		
19	N.S.S.	1	Body		
20	N.S.S.	1	O-Ring		
21	N.S.S.	1	O-Ring		
22	P32202	1	Ported Guide		
REF	P33168		Seal Kit (Includes Items 16, 20 & 21)		
			N.S.S. = Not Sold Separately		
				644D-34 S/N 108-	7
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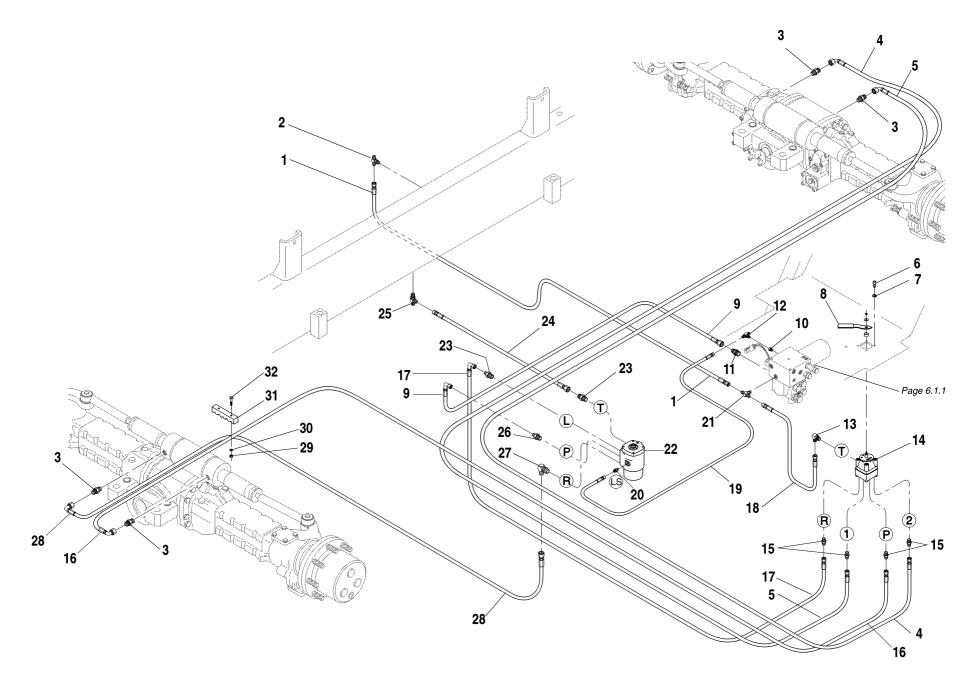
ITEM	PART NO.	QTY.	DESCRIPTION
1	65213A	1	Cylinder Assembly, Frame Tilt
2	16228A	2	Bushing
3	P16611	2	Grease Fitting
4	68353X	1	Barrel Weldment
5	P40460	1	Nut, Crownlock
6	P25911	1	Bushing
7	68354X	1	Rod Weldment
8	68356X	8	Capscrew, Hx.,
9	68355X	1	Head, Rod Bearing
10	N.S.S	1	*Wiper
11	N.S.S	1	* Seal
12	N.S.S	1	≭ Back-Up Ring
13	N.S.S	1	★ O-Ring
14	N.S.S	2	≭ Wear Ring
15	P29878	1	Piston
16	N.S.S	1	★ O-Ring
17	N.S.S	2	≭ Wear Ring
18	N.S.S	1	≭ O-Ring
19	N.S.S	1	≭ Piston Seal
Ref	P30653	1	Seal Kit
NOTES * II	S: tems Included		Kit. S.S. = Not Sold Separately

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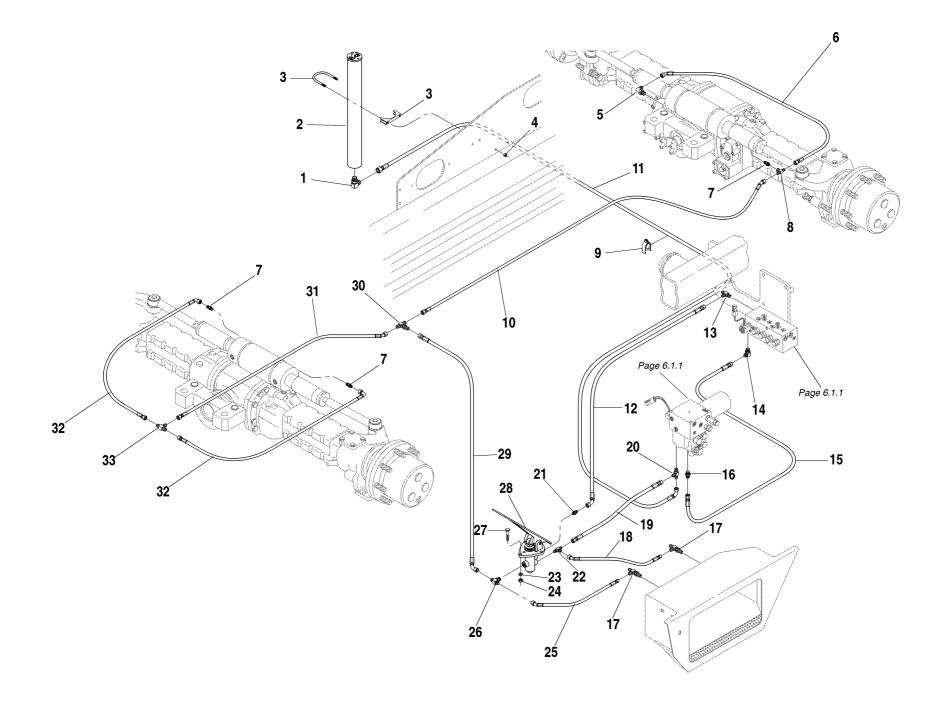
Section 8 —	- Steering	and Brake	Hydraulics
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Steering Hydraulic Circuit	8.1.1
Service Brake Hydraulic Circuit	8.2.1
Service Brake Valve Assembly	8.3.1
Park Brake Hydraulic Circuit	8.4.1
Accumulator Assembly	851



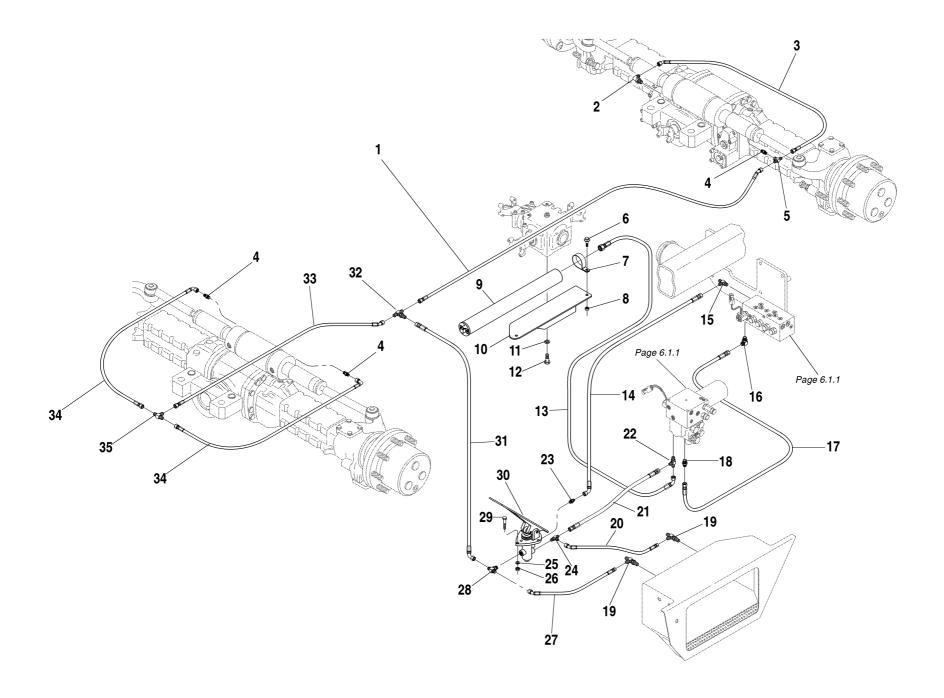
ITEM	PART NO.	QTY.	DESCRIPTION		
1	P25213	1	Hyd. Hose, 3/8" x 44"		Rev. (
2	P21219	1	Adapter, Tee		
3	37713X	4	Adapter, Straight, Male JIC to Male Metric		
4	37829X	1	Hyd. Hose, 3/8" x 128"		
5	P18894	1	Hyd. Hose, 3/8" x 118"		
6	P01816	4	Capscrew, Socket Hd., 3/8"-16 x 3/4"		
7	P01310	4	Lockwasher, 3/8"		
8	P18085	1	Handle, Steering Selector		
9	66739X	1	Hyd. Hose, 3/8" x 71"		
10	67528X	1	Orfice Plug		
11	P15406	1	Adapter		
12	P18936	1	Adapter		
13	P18935	1	90° Elbow		
14	P29100	1	Valve, Steering Selector		
15	P18936	4	Connector, O-Ring		
16	37885X	1	Hyd. Hose, 3/8" x 113"		
17	66738X	1	Hyd. Hose, 3/8" x 92"		
18	P29968	1	Hyd. Hose, 3/8" x 16"		
19	P29273	1	Hyd. Hose, 3/8" x 68"		
20	P18960	1	Adapter, Str		
21	P18958	1	Adapter, Tee		
22	39751B	1	Steer Motor		
REF	P92396	1	Seal Kit, Steer Motor		
23	37053X	2	Connector, O-Ring		
24	66740X	1	Hyd. Hose, 3/8" x 83"		
25	P21219	1	Tee		
26	P19414	1	Check Valve		
27	P18965	1	Adapter,90° Elbow		
28	P33126	1	Hyd. Hose, 3/8" x 143"		
29	P01506	2	Nut, Hx., 1/4"-20		
30	P01308	2	Lockwasher 1/4"		
31	66372X	1	Hose Clamp, Multiple		
32	P00013	2	Capscrew, Hx., 1/4"-20 x 3"	644D-34 S/N 108–	┪
				044D-34 3/IN 100-	

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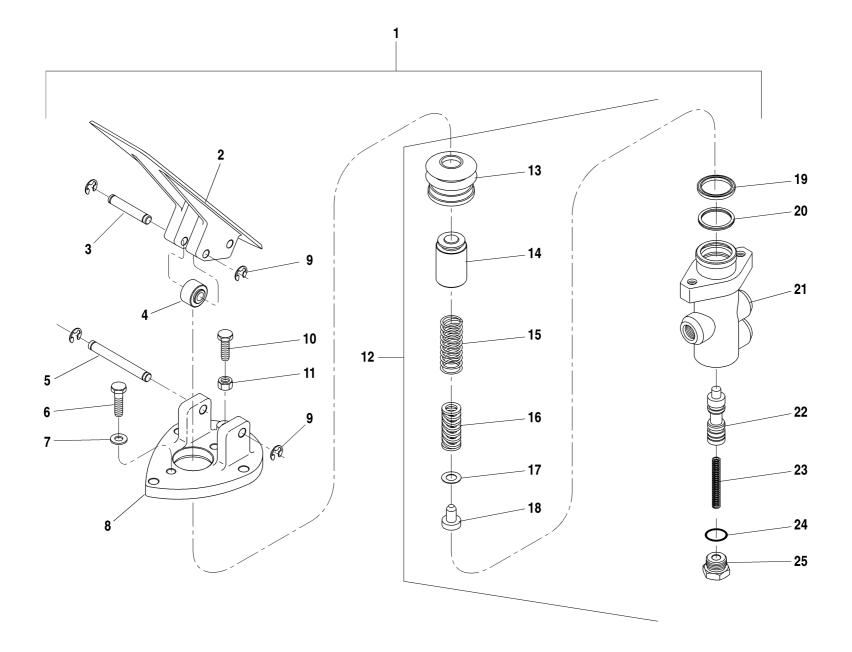


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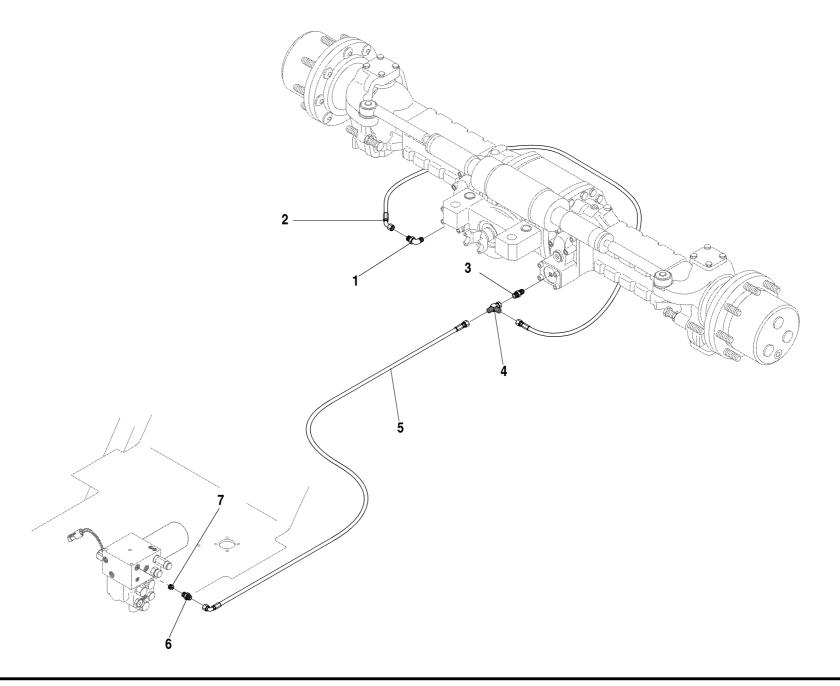
ГЕМ	PART NO.	QTY.	DESCRIPTION	_	n De
1	P18956	1	90° Adapter		Rev
2	1100389	1	Accumulator (Replaces 37714X)		
			(See Page 8.5.1 for Breakdown)		
3	P12169	1	Clamp		
4	P05005	4	Locknut, Hx., 3/8"-16		
5	37769X	1	90° Adapter, Male JIC to Male Metric		
3	37880X	1	Hyd. Hose, 1/4" x 29"		
7	P25396	1	Adapter, O-Ring		
8	P19845	1	Adapter, Swivel Tee		
9	P20466	1	Cushion Clamp, 5/8"		
10	37882X	1	Hyd. Hose, 1/4" x 64"		
11	66736X	1	Hyd. Hose, 3/8" x 76"		
12	1100094	1	Hyd. Hose, 3/8" x 27"		
13	P21914	1	Adapter, RunTee		
14	P18935	1	90° Adapter,		
15	P27170	1	Hyd. Hose, 1/4" x 28"		
16	P18936	1	Connector, O-Ring		
17	P28823	1	Tee, Bulkhead		
18	66732X	1	Hyd. Hose, 3/8" x 18"		
19	P25872	1	Hyd. Hose, 3/8" x 23"		
20	P21914	1	Tee, O-Ring		
21	P18936	1	Connector, O-Ring		
22	P21914	1	Tee, O-Ring		
23	P01310	3	Lockwasher 3/8"		
24	P01508	5	Nut, Hx., 3/8"-16		
25	66731X	1	Hyd. Hose, 3/8" x 15"		
26	P18985	1	Tee, Branch O-Ring		
27	P00207	3	Capscrew, Hx., 3/8"-16 x 1 3/4"		
28	65581B	1	Valve, Brake		
			(See Page 8.3.1 for Breakdown)		
29	37280X	1	Hyd. Hose, 3/8" x 32"		
30	P18945	1	Adapter, Bulkhead Tee		
31	66734X	2	Hyd. Hose, 3/8" x 58"	CAAD 24 C/N 100, CCO	+
32	P30175		Hyd. Hose, 3/8" x16"	644D-34 S/N 108–669	
33	P18995		Adapter, Tee		



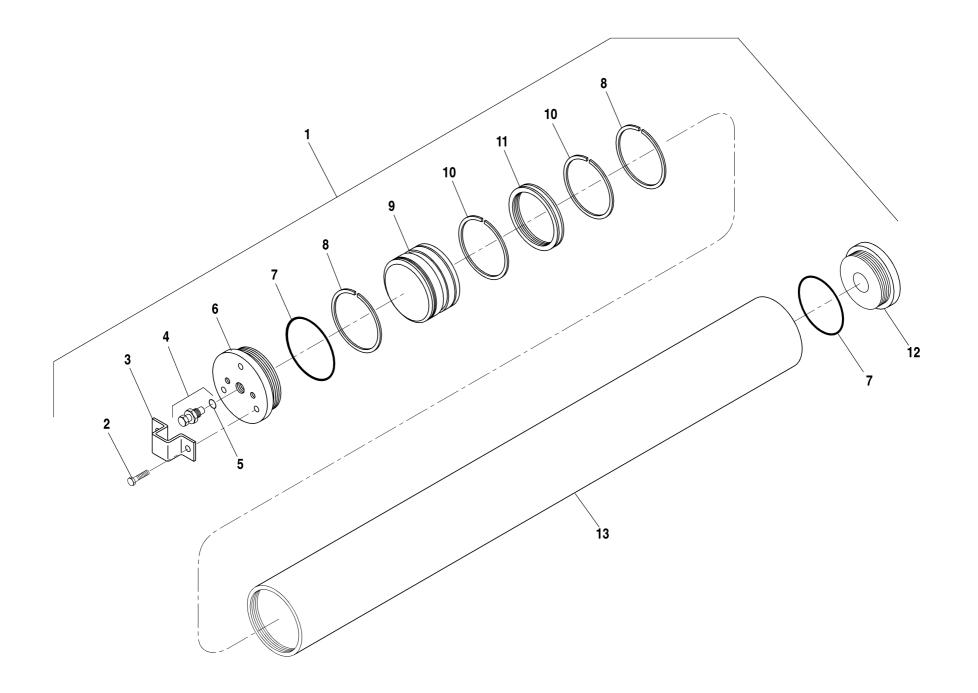
TEM	PART NO.	QTY.	DESCRIPTION	
1	37882X	1	Hyd. Hose, 1/4" x 64"	
2	37769X	1	90° Adapter, Male JIC to Male Metric	
3	37880X	1	Hyd. Hose, 1/4" x 29"	
4	P25396	1	Adapter, O-Ring	
5	P19845	1	Adapter, Swivel Tee	
6	10705344	2	Capscrew, Hx, Flg., 3/8"-16 x 1"	
7	10237460	2	Clamp, Support, 2 1/4"	
8	10705108	2	Nut, Hx, Flg., 3/8"-16	
9	1100389	1	Accumulator (Replaces 37714X)	
			(See Page 8.5.1 for Breakdown)	
10	1100390	1	Bracket, Accumulator	
11	10701406	2	Flatwasher, 1/2"	
12	10700403	2	Capscrew, Hx., 1/2"-13x 1 1/4"	
13	1100391	1	Hyd. Hose, 3/8" x 41"	
14	1100094	1	Hyd. Hose, 3/8" x 27"	
15	P21914	1	Adapter, RunTee	
16	P18935	1	90° Adapter,	
17	P27170	1	Hyd. Hose, 1/4" x 28"	
18	P18936	1	Connector, O-Ring	
19	P28823	1	Tee, Bulkhead	
20	66732X	1	Hyd. Hose, 3/8" x 18"	
21	P25872	1	Hyd. Hose, 3/8" x 23"	
22	P21914	1	Tee, O-Ring	
23	P18936	1	Connector, O-Ring	
24	P21914	1	Tee, O-Ring	
25	P01310	3	Lockwasher 3/8"	
26	P01508	5	Nut, Hx., 3/8"-16	
27	66731X	1	Hyd. Hose, 3/8" x 15"	
28	P18985	1	Tee, Branch O-Ring	
29	P00207	3	Capscrew, Hx., 3/8"-16 x 1 3/4"	
30	65581B	1	Valve, Brake	
			(See Page 8.3.1 for Breakdown)	
31	37280X	1	Hyd. Hose, 3/8" x 32"	044B 04 0/N 770
32	P18945	1	Adapter, Bulkhead Tee	644D-34 S/N 770–
33	66734X	2	Hyd. Hose, 3/8" x 58"	
34	P30175		Hyd. Hose, 3/8" x16"	
35	P18995		Adapter, Tee	



ITEM	PART NO.	QTY.	DESCRIPTION	
1	65581B	1	Brake Valve Assembly	
2	N.S.S.	1	Pedal, Brake	
3	N.S.S.	1	Pin, Cam	
4	N.S.S.	1	Cam	
5	N.S.S.	1	Pin, Pedal Mounting	
6	P00132	2	Capscrew, Hx. Hd., 5/16"-18 × 1 1/4" GR 8	
7	P01434	2	Flatwasher, 5/16" SAE	
8	N.S.S.	1	Base, Actuator	
9	N.S.S.	4	C-Clip	
10	P00104	1	Capscrew, Hx. Hd., 5/16"-18 × 1"	
11	P01507	1	Nut, Hx., 5/16"-18	
12	37081X	1	Valve Assembly (Includes Items 13-25)	
13	N.S.S.	1	Boot, Rubber	
14	N.S.S.	1	Piston	
15	N.S.S.	1	Spring	
16	N.S.S.	1	Spring	
17	N.S.S.	A/R	Shim	
18	N.S.S.	1	Seat, Spring	
19	N.S.S.	1	Cup	
20	N.S.S.	1	Seal	
21	N.S.S.	1	Body	
22	N.S.S.	1	Spool	
23	N.S.S.	1	Spring, Spool Return	
24	N.S.S.	1	O-Ring	
25	N.S.S.	1	Plug	
REF	37080X	1	Repair Kit (Includes Items 6, 13, 19, 20, 24)	
				644D-34 S/N 108–



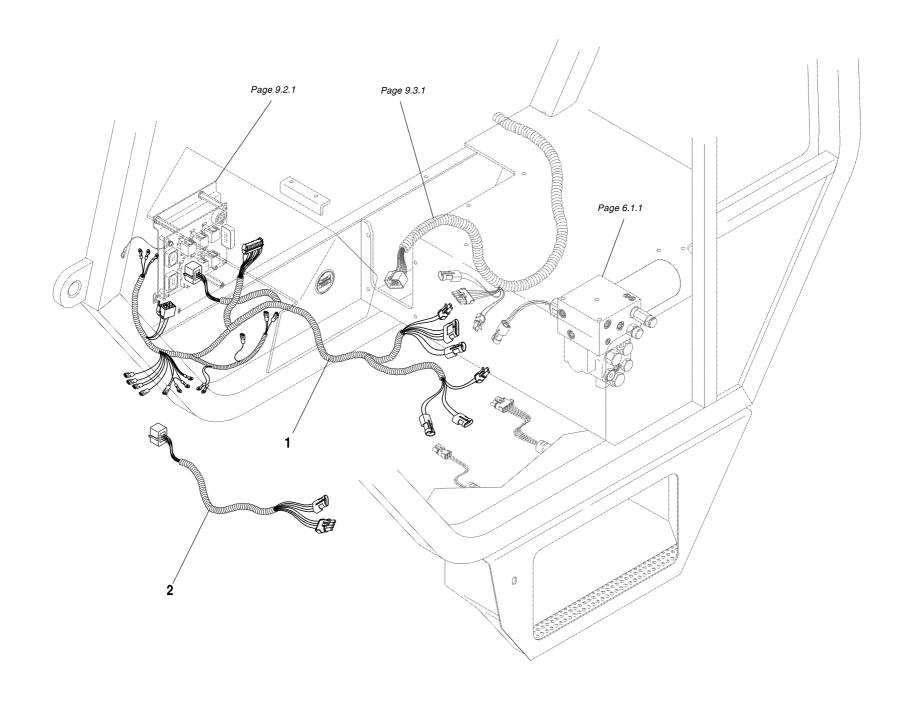
EM	PART NO.	QTY.	DESCRIPTION		
	37769X	1	90° Elbow, Bulkhead		Re
2	37881X	1	Hyd. Hose, 1/4" x 44"		
}	P25396	1	Adapter		
ļ	P19412	1	Adapter, Swivel Tee		
5	66735X	1	Hyd. Hose, 1/4" x 94"		
3	P18936	1	Adapter		
7	67528X	1	Orifice Plug		
				644D-34 S/N 108-	
					ı



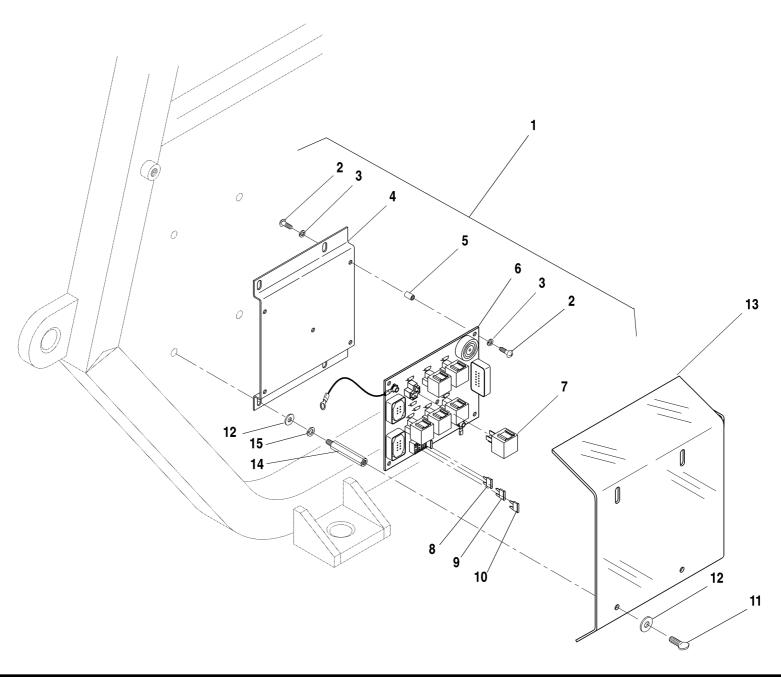
ITEM	PART NO.	QTY.	DESCRIPTION		
1	1100389	1	Accumulator Assembly (Replaces 37714X)		Rev. 001
2	68097X	2	Screw		
3	68096X	1	Guard, Valve		
4	P91947	1	Gas Valve		
5	N.S.S.	1	O-Ring		
6	N.S.S.	1	End Cap, Gas		
7	N.S.S.	2	O-Ring		
8	N.S.S.	2	Teflon Ring		
9	68095X	1	Piston		
10	N.S.S.	2	Back-Up Washer		
11	N.S.S.	1	"V" O-Ring		
12	N.S.S.	1	End Cap		
13	N.S.S.	1	Body, Accumulator		
Ref	1100405	1	Repair Kit (Includes Items 5, 7, 8, 12, 13)		
		N.S	S.S.= Not Sold Separately		
				CAAD 04 C/N 100	
				644D-34 S/N 108–	
					6440

ACMITENIES

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Section 9 — Electrical			
Electrical Group - Operator's Compartment			
Electrical Mounting Panel - Circuit Board, Fuses & Relays 9.2.1			
Electrical Group - Frame, Engine & Transmission Control 9.3.1			

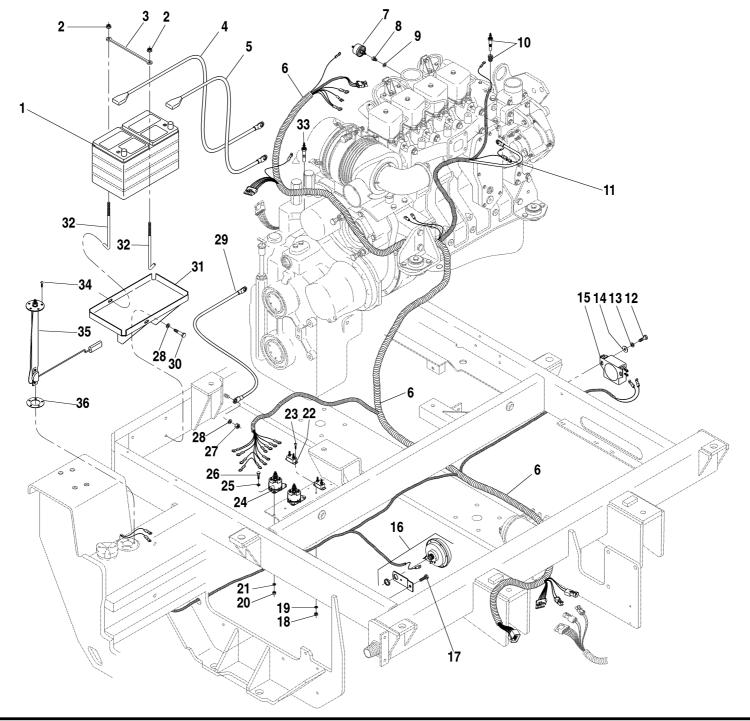


ITEM	PART NO.	QTY.	DESCRIPTION		.
1	67117D	1	Wirring Harness, Operators Compartment		Rev. 001
2	● 68410B	1	Harness, Jumper, Shifter		
NOTE	s.				
0 (Jsed S/N 108-	-612.			
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				644D-34 S/N 108–	I
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9.2.1 09A-1003 Rev. 001

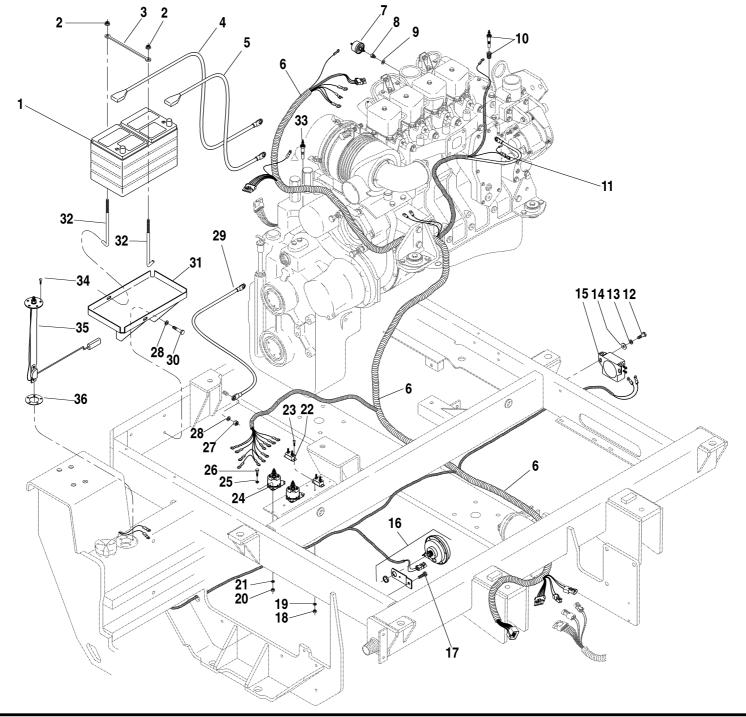
TEM	PART NO.	QTY.	DESCRIPTION	
1	67654C	1	Circuit Board assembly (Includes items 2-10)	
2	67173X	10	Screw, Slotted Rd. Hd., #8-32 x 3/8"	
3	P01305	10	Lockwasher, #8	
4	67681B	1	Mounting Panel, Circuit Board	
5	67159X	5	Standoff, #8-32 x 1/4" Long	
6	N.S.S.	1	Circuit Board	
7	66820X	6	Relay	
8	66827X	1	Fuse, 7.5 Amp (Brown)	
9	66828X	1	Fuse, 10 Amp (Red)	
10	66829X	1	Fuse, 15 Amp (Blue)	
11	38251A	3	Thumb Screw, 1/4"-20	
12	P01402	7	Flatwasher 1/4"	
13	38319B	1	Cover, Circuit Board	
14	38327A	4	Standoff, 3 1/4" Long Hex	
15	P01308	4	Lockwasher, 1/4"	
		N.S	S.S. = Not Sold Separately	
				644D-34 S/N 108–



09A-1002 Rev. 00

<u>ITEM</u>	PART NO.	QTY.	DESCRIPTION	<u> </u>	-
1	0	1	Battery, 12 Volt,BCI Group 31, 925 CCA		Rev. 00
2	P01506	2	Nut, Hx., (Included with Item 32)		
3	37708X	1	Tie Down, Battery	NOTES:	
4	65742C-21	1	Battery Cable, Negative, 30"	Obtain Locally.	
5	65742C-22	1	Battery Cable, Positive, 24"	Obtain Locally.	
6	67120D	1	Wire Harness, Frame, Engine & Transmission		
7	P23217	1	Sender, Oil Pressure		
8	66115X	1	Adapter		
9	66114X	1	Washer		
10	P23222	1	Sender, Water Temperature		
11	P21787	1	Diode Module		
12	P00003	2	Capscrew, Hx., 1/4"-20 x 3/4"		
13	P01308	2	Lockwasher, 1/4"		
14	P01402	2	Flatwasher, 1/4'		
15	P13774	1	Alarm, Back-Up (Reverse)		
16	P13707	1	Horn		
17	P00102	1	Capscrew, Hx., 5/16"-18 x 3/4"		
18	P01404	4	Nut, Hx., #10-24		
19	P01306	4	Lockwasher, #10		
20	P01506	4	Nut, Hx., 1/4"-20		
21	P01308	4	Lockwasher, 1/4"		
22	P29694	2	Circuit Breaker		
23	P02054	4	Screw, Slotted,Rd. Hd., #10-24 x 1/2"		
24	67789A	2	Starter Relay		
25	P01402	4	Flatwasher, 1/4"		
26	P00003	4	Capscrew, Hx., 1/4"-20 x 3/4"		
27	P01508	1	Nut, Hx., 3/8"-16		
28	P01310	5	Lockwasher, 3/8"		
29	38200C-3	1	Cable, Ground		
30	P00202	4	Capscrew, Hx., 3/8"-16 x 3/4"		
31	67439B	1	Battery Tray		
32	37704X	2	Hold Down, Battery		
33	P19472	1	Sender, Transmission Oil Temperature	CAAD 04 C/N 100 001	┪
34	P02334	5	Screw, Slotted Rd. Hd., 10-32 × 1"	644D-34 S/N 108–231	
35	1100525	1	Sender, Fuel (Replaces 67155X)		1
36	68089X	1	Gasket, Fuel Sender		

9.3.1



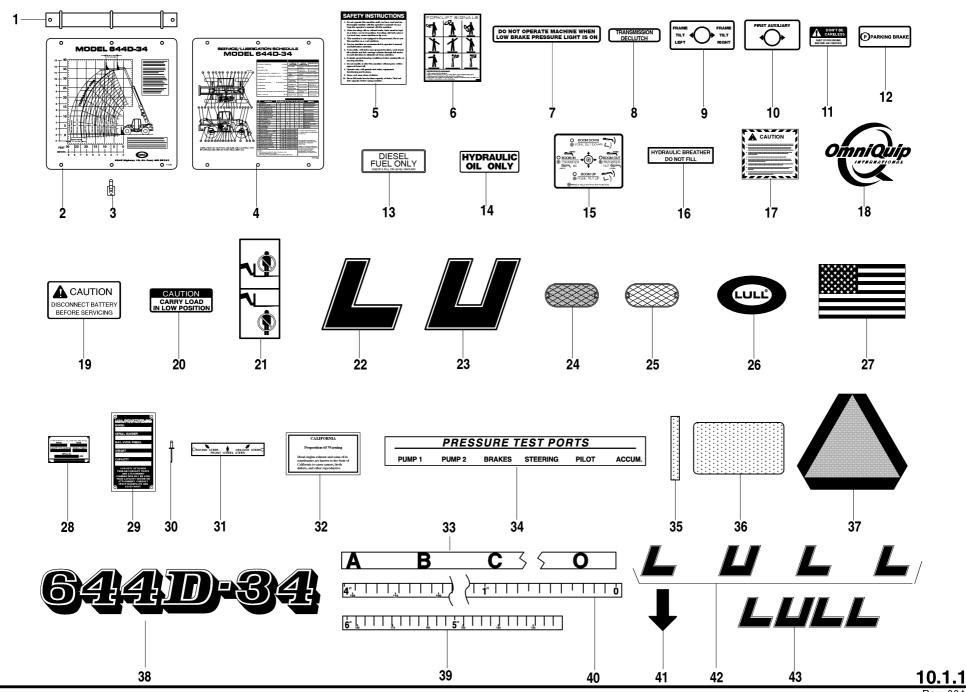
9.3.1.1 09A-1002 Rev. 001

<u>TEM</u>	PART NO.	QTY.	DESCRIPTION	_ _	-
1	0	1	Battery, 12 Volt, BCI Group 31, 925 CCA		Rev.
2	P01506	2	Nut, Hx., (Included with Item 32)		
3	37708X	1	Tie Down, Battery	NOTES:	
4	65742C-21	1	Battery Cable, Negative, 30"	• Obtain Locally.	
5	65742C-22	1	Battery Cable, Positive, 24"	Obtain Locally.	
6	68667D	1	Wire Harness, Frame, Engine & Transmission		
7	P23217	1	Sender, Oil Pressure		
8	66115X	1	Adapter		
9	66114X	1	Washer		
10	P23222	1	Sender, Water Temperature		
11	P21787	1	Diode Module		
12	P00003	2	Capscrew, Hx., 1/4"-20 x 3/4"		
13	P01308	2	Lockwasher, 1/4"		
14	P01402	2	Flatwasher, 1/4'		
15	P13774	1	Alarm, Back-Up (Reverse)		
16	68663B	1	Horn		
17	P00102	1	Capscrew, Hx., 5/16"-18 x 3/4"		
18	P01404	4	Nut, Hx., #10-24		
19	P01306	4	Lockwasher, #10		
20	P01506	4	Nut, Hx., 1/4"-20		
21	P01308	4	Lockwasher, 1/4"		
22	P29694	2	Circuit Breaker		
23	P02054	4	Screw, Slotted,Rd. Hd., #10-24 x 1/2"		
24	67789A	2	Starter Relay		
25	P01402	4	Flatwasher, 1/4"		
26	P00003	4	Capscrew, Hx., 1/4"-20 x 3/4"		
27	P01508	1	Nut, Hx., 3/8"-16		
28	P01310	5	Lockwasher, 3/8"		
29	38200C-3	1	Cable, Ground		
30	P00202	4	Capscrew, Hx., 3/8"-16 x 3/4"		
31	67439B	1	Battery Tray		
32	37704X	2	Hold Down, Battery		
33	P19472	1	Sender, Transmission Oil Temperature	244D 24 2 (N 222	4
34	P02334	5	Screw, Slotted Rd. Hd., 10-32 × 1"	644D-34 S/N 232–	
35	1100525	1	Sender, Fuel (Replaces 67155X)		
36	68089X	1	Gasket, Fuel Sender		1

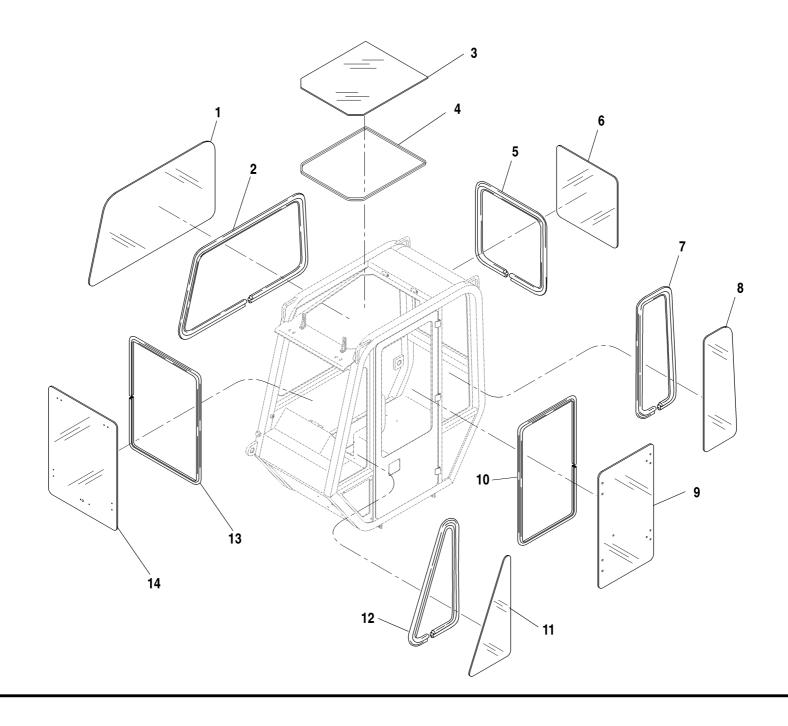
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	Door Assembly Enclosed Cab
	Windshield Assembly10.7.1
	Windshield Wiper Assembly
	Insulatoin Assembly Enclosed Cab

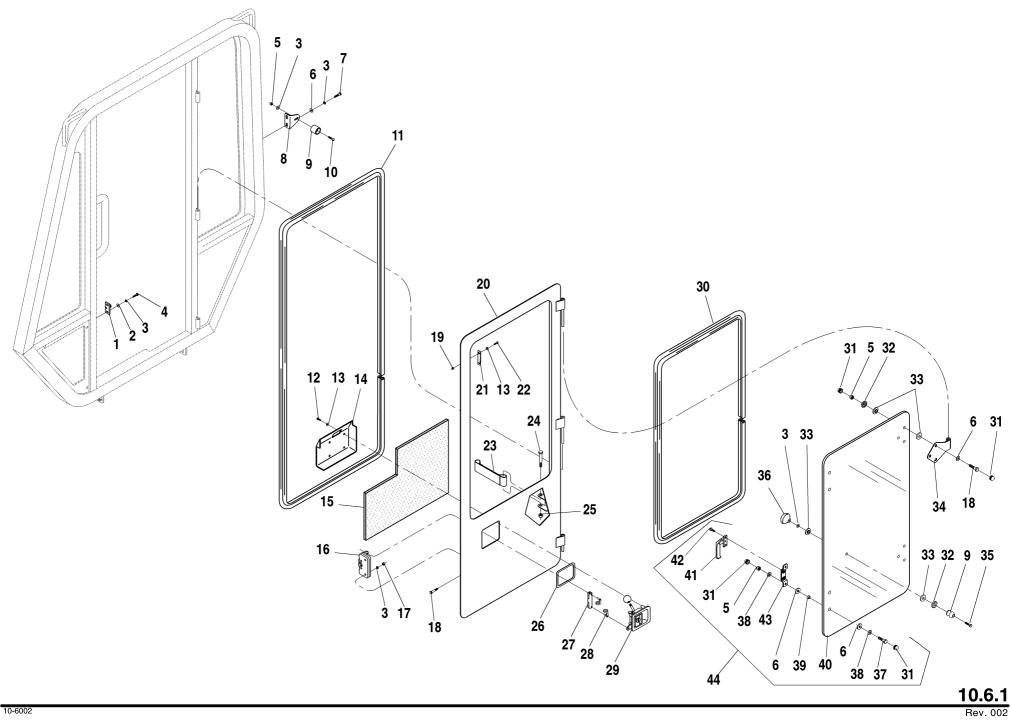


ITEM	PART NO.	QTY.	DESCRIPTION	ITEM PART NO. QTY. DESCRIPTION
1	38718A	1	3-Ringer Hanger, Flip Card	36 39087A 1 *Foot Mat, No-Slip Adhesive Surfacing
2	67893B	1	Flip Card, Load Chart Capacities 644D-34	37 25252B 1 Slow Moving Vehicle Sign
3	37364X	1	Holder, Flip Card	38 67886B 1 Decal, 644D
4	67712B	1	Flip Card, Lube Schedule	39 38304D 1 Decal, Transfer Extension Indicator, Cab
5	67683B	1	≭ Decal, Safty	40 67796B 1 Decal, Transfer, Indicator, Frame
6	39617B	1	≭ Decal, Forklift Signals	41 16346A 1 Decal, Arrow
7	24906A	1	★ Decal, Low Brake Pressure Warning	42 68422B 2 Decal, LULL, Boom
8	35082A	1	★ Decal, Transmission Declutch	43 68421B 1 Decal, LULL, Counterwieght
9	30487A	1	Frame Tilt	
10	67270A	1	Aux	
11	21319A	2	≭ Decal, Don't Be Careless	NOTES:
12	67229A	1	≭ Decal, Parking Brake	* Items Included in Decal Replacement Kit 1100779.
13	20989A	1	≭ Decal, Diesel Fuel Only	
14	20988A	1	★ Decal, Hydraulic Oil Only	
15	67267A	1	★ Decal, Boom Movement Control	NOO NOON ON O
16	39619A	1	★ Decal, Hydraulic Breather	N.S.S. = Not Sold Separately
17	20964B	1	Plate, Caution	
18	66044B	2	≭ Decal, OmniQuip	
19	35092A	1	≭ Decal, Disconnect Battery	
20	21318A	1	★ Decal, Caution, Carry Load Low	
21	24752B	2	≭ Decal, Carriage Safety	
22	15731B	4	Decal, Letter "L"	
23	15732B	2	Decal, Letter "U"	
24	P18991	2	≭ Reflector, Red	
25	P18992	2	≭ Reflector, Yellow	
26	39376C	1	≭ Decal, "Lull" Logo - Large (18")	
	38843B	2	≭ Decal, "Lull" Logo - Small (8")	
27	26431B	2	≭ Decal, American Flag	
28	N.S.S.	1	Plate, Serial Number	
29	N.S.S	1	Plate, Attachment Capacity	
30	P32958	14	Pop-Rivet, Aluminum, 1/8" dia. x.337" long	
31	12750A	1	Plate, Steer Selector	CAAD 24 C/N 100
32	39369A	1	Decal, California Proposition 65 Warning	644D-34 S/N 108–
33	38335C	1	Decal, Boom Extension Indicator	
34	67269B	1	Decal, Pressure Test Ports	
35	N12350	1	★ No-Slip Surfacing (2" × 14" Adhesive Strip)	



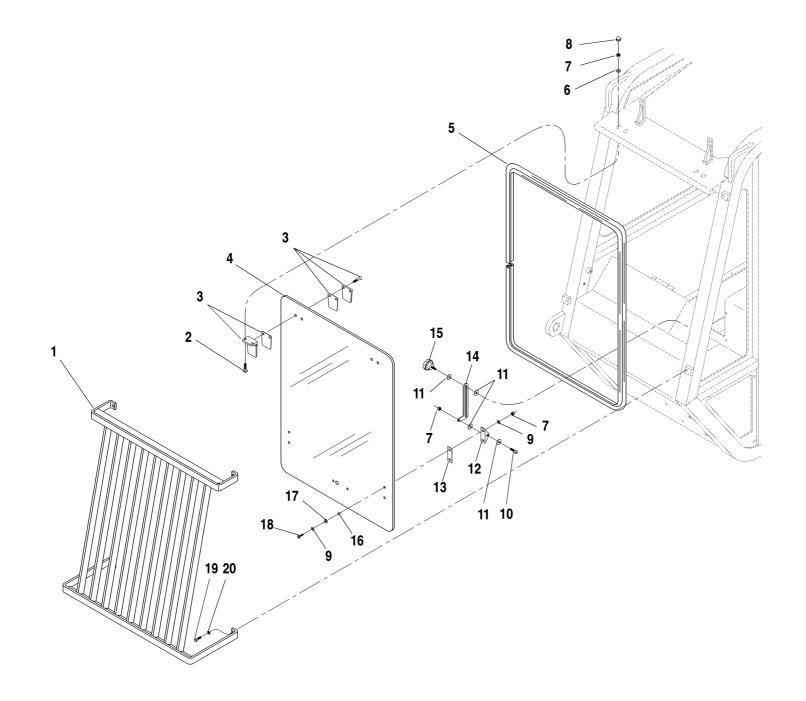
10.5.1 Rev. 002

ГЕМ	PART NO.	QTY.	DESCRIPTION	
1	36314C	1	Glass, Right Side	
2	N12354	1	Seal, Right Side	
3	36318B	1	Glass, Skylight	
4	67150X	1	Seal, Roof, Self Stick	
5	N12362	1	Seal, Rear	
6	39478B	1	Glass, Rear, Fixed	
7	N12361	1	Seal, Left Side, Rear	
8	36500B	1	Glass, Left Side, Rear	
9	38872B	1	Glass, Door, Hinged	
	39176X	-	Glass, Door, Non Hinged	
10	N12364	1	Seal, Door Glass, Hinged	
	39177X	-	Seal, Door Glass, Non Hinged	
11	36499B	1	Glass, Left Side, Front	
12	N12360	1	Seal, Left Side, Front	
13	N12356	1	Seal, Windshield	
14	36317C	1	Glass, Windshield, Hinged	

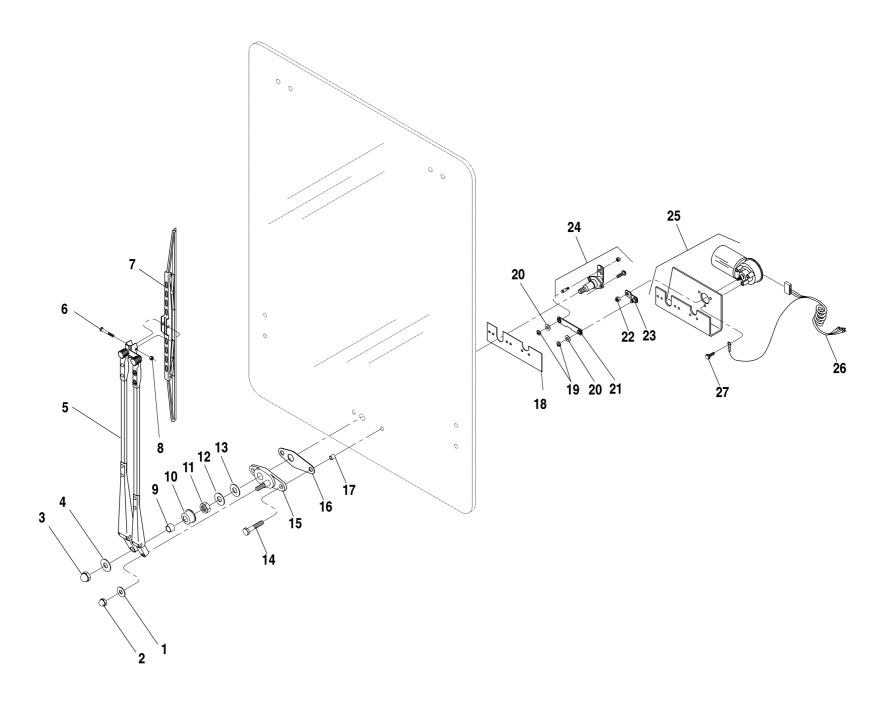


10-6002

ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION	
1	37413X	1	Striker Mount	38	37392X	2	Washer, Fiber	Rev. 0
2	P01402	2	Flatwasher, 1/4"	39	39222A	4	Spacer, Window	
3	P01308	2	Lockwasher, 1/4"	40	38872B	1	Glass, Door, Hinged	
4	P00005	2	Capscrew, Hx., 1/4"- 20 × 1"	41	37405X	2	Latch	
5	37394X	11	Locknut, Hx., 1/4" × 20	42	37391X	2	Screw, Slotted Rd. Hd., 1/4"-20 × 3/4"	
6	37398X	14	Flatwasher, 1/4"	43	67596X	2	Mount, Handle	
7	P00003	1	Capscrew, Hx., 1/4"- 20 × 3/4"	44	37403X	2	Kit, Handle Mounting	
8	39799A	1	Bracket, Door Holder					
9	37407X	1	Door Holder, Plunger & Socket					
10	37391X	1	Screw Slotted Rd, Hd., 1/4"-20 × 3/4"					
11	N12365	1	Seal, Door					
12	P02057	4	Screw Slotted Rd, Hd., #10-24 × 3/4"					
13	P01400	4	Flatwasher, #10					
14	37414X	1	Cover, Latch					
15	38870B	1	Ins, door					
16	37412X	1	Latch, Rotary					
17	P01656	2	Locknut, Hx., 1/4"-20					
18	P00007	2	Capscrew, Hx., 1/4"- 20 × 1 1/2"					
19	P01654	4	Locknut, Hx., #10-24					
20	38913C	1	Door					
21	37415X	2	Bracket, Latch, Window					
22	P02059	4	Screw Slotted Rd, Hd., #10-24 × 1"					
23	37416X	1	Strap					
24	P00110	1	Capscrew, Hx., 5/16" -18 × 2 1/2"					
25	P16057	1	Locknut, Hx., 5/16" × 18					
26	37411X	1	Seal, Latch					
27	P91534	1	Link, Connecting					
28	P91533	2	Pin, Spring					
29	P91531	1	Handle, Paddle Assembly					
30	N12364	1	Seal, Door Glass					
31	37406X	10	Cap, Acorn					
32	37410X	12	Glass Mount					
33	37409X	12	Washer, Shoulder, Glass Mount					-
34	39790B	2	Hinge					
35	P04060	1	Capscrew, Hx., M6.1 × 50mm GR 8.8					
36	37408X	1	Knob					
37	P00006	4	Capscrew, Hx., 1/4"- 20 × 1 1/4"					



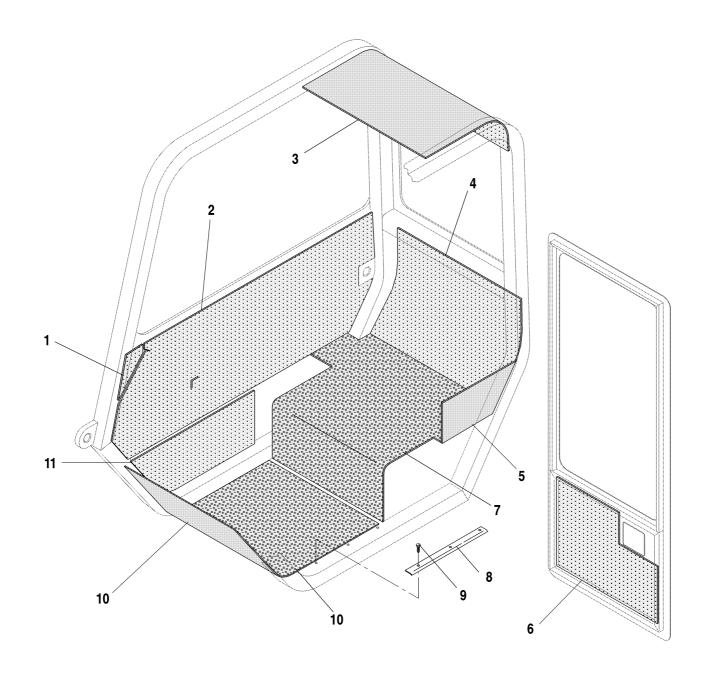
EM I	PART NO.	QTY.		DESCRIPTION
	36520D	1		**
	37397X	4		Screw, Slotted Rd. Hd., 1/4"-20 × 1"
	37389X		2	•
	36317C N12356	1		Glass, Windshield, Hinged Seal, Windshield
	37398X	4		
,	37394X	4		Locknut, Hx., 1/4"-20
3	36408A	4		
)	37395X	5		Flatwasher 3/16"
0	37391X	2		Screw, Slotted Rd. Hd., 1/4"-20 × 3/4"
1	37392X	2		
2	38848B	2		
3	39225A	2		Gasket, Rubber
4	38849B	2		•
5	37396X	2		Knob
6	39222A	4	ŀ	,
7	39224A	4	ļ	Washer, Rubber
8	37393X	4		Screw, Slotted Rd. Hd., 1/4"-20 × 1"
9	P01310	4	ŀ	Lockwasher, 3/8
0	P00204	4	Ļ	Capscrew, Hx., 3/8"-16 × 1"



10-6004 Rev. 00

10.8.1 Rev. 002

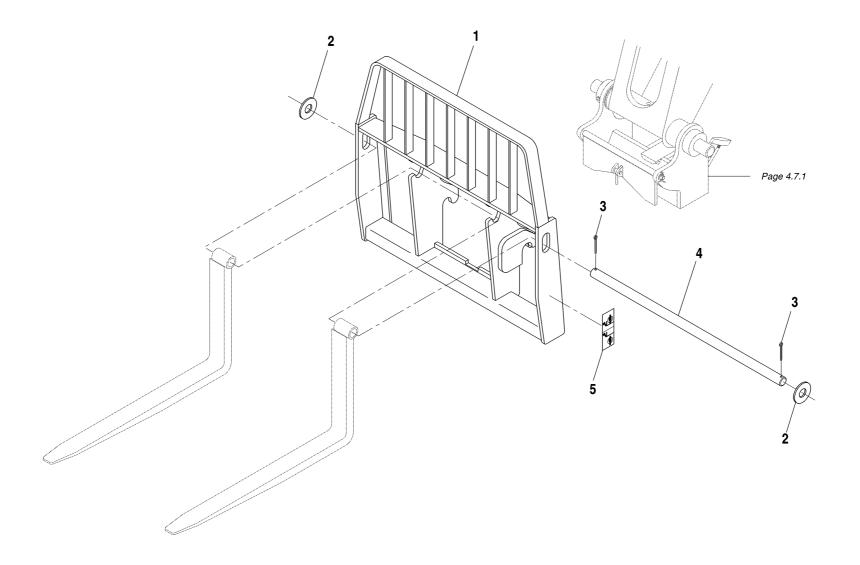
ITEM	PART NO.	QTY.	DESCRIPTION
1	P01400	1	Flatwasher,
2	P91581	1	Nut, Acorn #10-24
3	P91583	1	Nut, Acorn
4	P91584	1	Flatwasher
5	37390X	1	Wiper Arm, Dual
6	P91577	1	Screw, Slotted, #4-40 × 7/8"
7	P32558	1	Blade, Wiper
8	P01650		Locknut, Hx., 4-40
9	P91585	1	Driver
10	P91586	1	Cap, Rubber
11	P91581	1	Nut, Hx
12	P91588	1	Washer, Steel
13	P91589	1	Washer, Plastic
14	37399X	2	Capscrew, Hx., 1/4"-28 × 3/4"
15	P32556	1	Adapter, Pantographic
16	P91579	1	Gasket
17	39222A	2	Sleeve, Plastic
18	39223A	1	Gasket, Wiper Motor
19	P91601	2	Spring Clip
20	P91600	2	Flatwasher
21	P91599	1	Link
22	P01531	1	Nut, Hx., 3/8"-24
23	P32555	1	Driver Arm
24	P32554	1	Shaft, Pivot
25	P32551	1	Wiper Motor (Includes Bracket)
REF	P32568	1	Wiper Motor
26	38366B	1	Cable, Wiper Motor
27	P91598	3	Screw



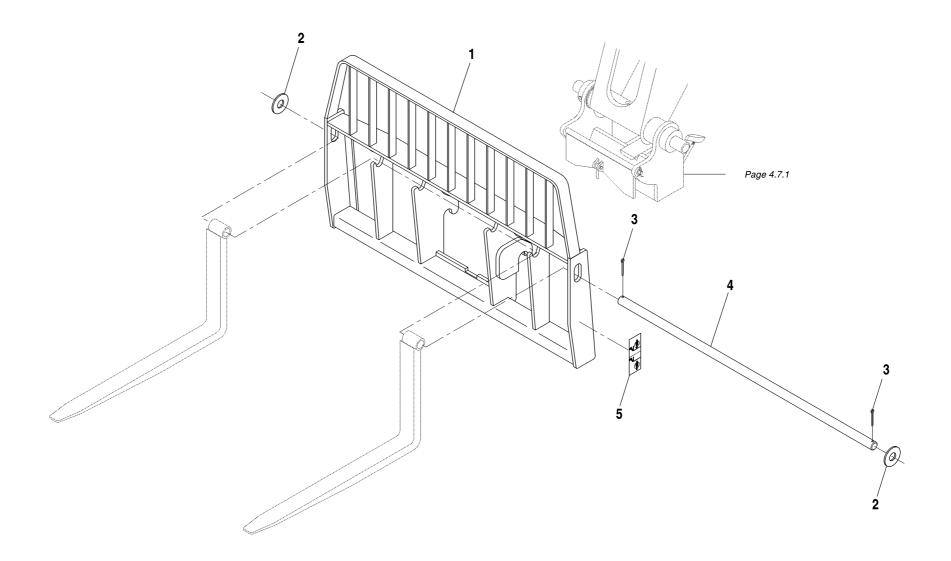
ГЕМ	PART NO.	QTY.	DESCRIPTION	
1	38766B	1	Insulation, Right Front	
2	38767B	1	Insulation, Right Side	
3	38764B	1	Insulation, Roof	
4	38771B	1	Insulation, Rear	
5	38765B	1	Insulation, Lower Left Rear	
6	38870B	1	Insulation, Lower Door	
7	38772B	1	Insulation, Seat Deck	
3	36477B	1	Threshold, Floor Mat	
9	P00005	3	Capscrew, Hx., 1/4"-20x1"	
0	36323C	1	Mat, Floor	
1	38768B	1	Insulation, Lower Right Front	

Section	11 —	Attachments
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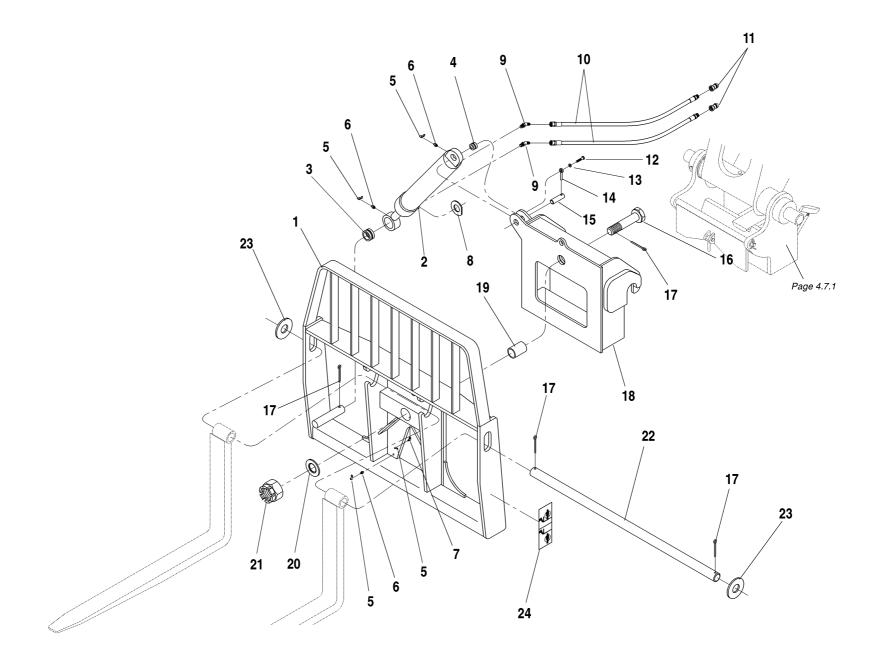
Standard (Non-Tilt) Fork Carriage Assembly	11.1.1
Framers (Non-Tilt) Fork Carriage Assembly	11.2.1
Standard Tilting Fork Carriage Assembly	11.3.1
Framers Tilting Fork Carriage Assembly	11.4.1
Tilt Carriage Cylinder Assembly	11.5.1



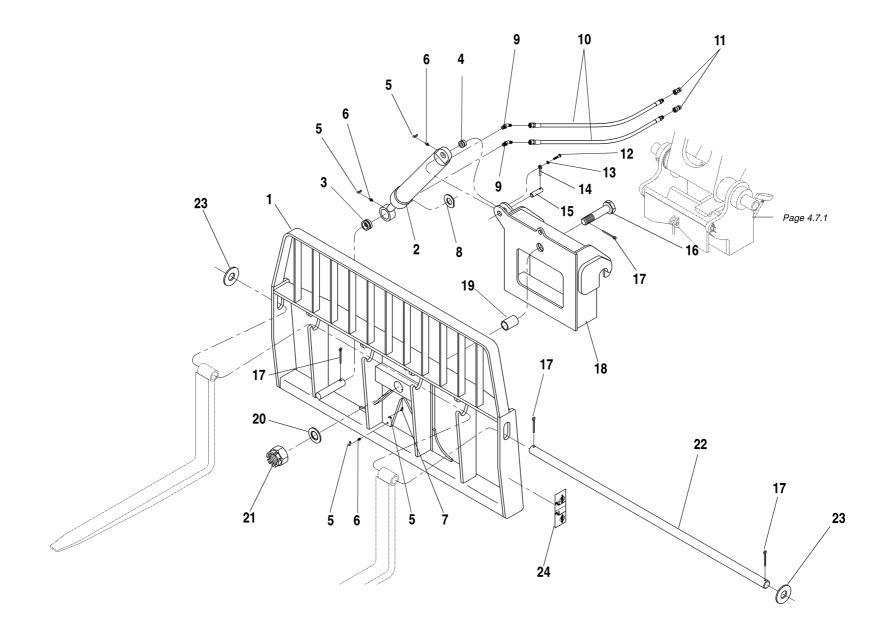
ITEM	PART NO.	QTY.	DESCRIPTION	
REF	48000	-	Standard (Non-Tilt) Fork Carriage Assembly	
			(Includes items 1–5)	
1	38000D	1	Carriage, Standard (Non-Tilt)	
2	18129A	2	Washer, Fork Shaft	
3	P03906	2	Cotter Pin, 3/8" × 3"	
4	38064A	1	Fork Shaft	
5	24752B	2	Decal, Carriage Safety	
REF	38026B	-	Pallet Fork, 42" × 4" × 2"	
REF	38025B	-	Pallet Fork, 48" × 4" × 2"	
REF	38117B	-	Pallet Fork, 60" × 4" × 2"	
REF	38118B	-	Cubing Fork, $48" \times 2" \times 2"$	
REF	17103B	-	Lumber Fork, 48" \times 6" \times 1 1/2"	
				644D-34 S/N 108–



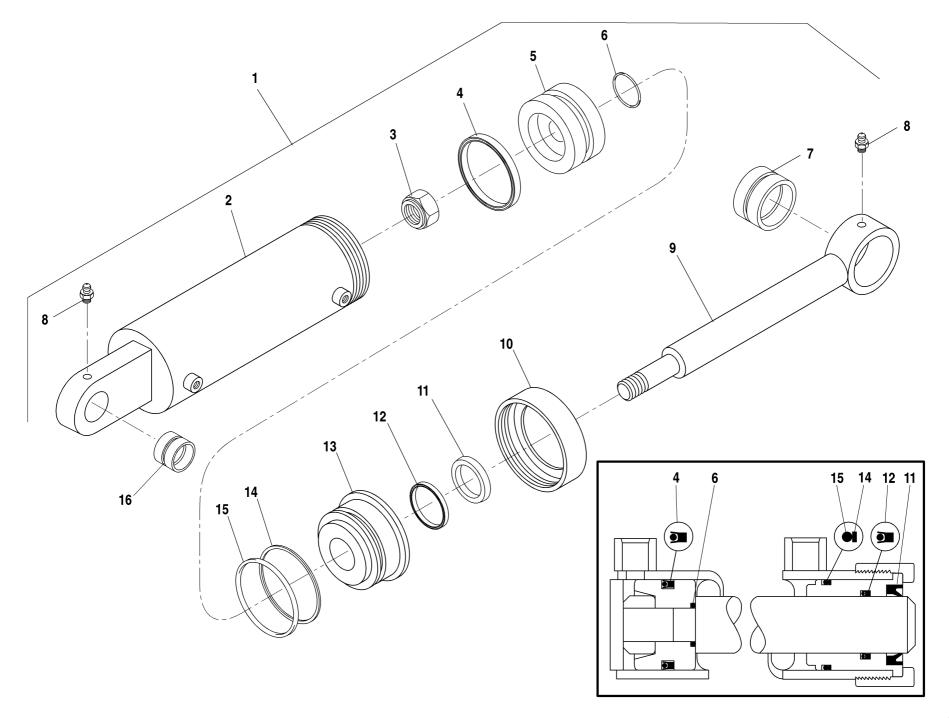
ГЕМ	PART NO.	QTY.	DESCRIPTION		Davi
REF	48002	-	Framers (Non-Tilt) Fork Carriage Assembly (Includes items 1–5)		Rev.
1	38001D	1	Carriage, Framers (Non-Tilt)		
2	18129A	2	Washer, Fork Shaft		
3	P03906	2	Cotter Pin, 3/8" × 3"		
4	16207A	1	Fork Shaft		
5	24752B	2	Decal, Carriage Safety		
REF	38026B	-	Pallet Fork, 42" × 4" × 2"		
EF	38025B	-	Pallet Fork, 48" × 4" × 2"		
EF	38117B	-	Pallet Fork, 60" × 4" × 2"		
EF	38118B	-	Cubing Fork, $48" \times 2" \times 2"$		
EF	17103B	-	Lumber Fork, 48" \times 6" \times 1 1/2"		
EF	23610B	-	Lumber Fork, 60" \times 6" \times 1 1/2"		
				644D-34 S/N 108–	



ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION	
REF	48001	-	Standard Tilting Fork Carriage Assembly					Rev. 00
			(Includes items 1–23)	REF	38025B	-	Pallet Fork, $48" \times 4" \times 2"$	
4	000000	4	Opening and Object dead Tilking	REF	38117B	_	Pallet Fork, 60" × 4" × 2"	
1	38002D	1	Carriage, Standard Tilting		3011715	_	Tallet Fork, 60 ×4 ×2	
2	66218B	1	Cylinder, Tilting Carriage w/O-Ring Ports	REF	38118B	_	Cubing Fork, 48" × 2" × 2"	
0	100004	4	(See Page 11.5.1 for Breakdown)	'\-'	301100	_	Odbing Fork, 40 ×2 ×2	
3	16228A	1	Bushing, Cylinder - Rod End	REF	17103B	_	Lumber Fork, 48" × 6" × 1 1/2"	
4	16227A	1	Bushing, Cylinder - Base End		171035	_	Editiber Fork, 40 × 0 × 1 1/2	
5	P32689	5	Cover, Grease Fitting	REF	23610B	_	Lumber Fork, 60" × 6" × 1 1/2"	
6	P16611	4	Grease Fitting		230100	_	Euriber Fork, 60 × 6 × 1 1/2	
7	P15337	1	Grease Fitting, 90°					
8	16323A	1	Washer, Special					
9	P19815	2	45° Elbow, O-Ring					
10	37863X	2	Hyd. Hose, 3/8" × 40" (O-Ring Ends)					
11	66136X	2	Male, Quick Coupler					
12	P00403	1	Capscrew, Hx., 1/2"-13 x 1 1/4"					
13	P01312	1	Lockwasher, 1/2"					
14	35707A	1	Lock Pin					
15	38014A	1	Pin, Tilt Cylinder					
16	38065A	1	Pivot Shaft					
17	P03906	4	Cotter Pin, 3/8" × 3"					
18	38004C	1	Inner Carriage					
19	38013A	1	Sleeve, Pivot					
20	38066A	1	Washer, Pivot					
21	37794X	1	Castle Nut, Hx., 2"-12					
22	38064A	1	Fork Shaft					
23	18129A	2	Washer, Fork Shaft					
24	24752B	2	Decal, Carriage Safety					
				644D-3	34 S/N 108-			
REF	38026B	-	Pallet Fork, 42" × 4" × 2"					



<u>ITEM</u>	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION	
REF	48003	-	Framers Tilting Fork Carriage Assembly (Includes items 1–23)	REF	38025B	-	Pallet Fork, 48" × 4" × 2"	Rev. 00
1	38003D	1	Carriage, Framers Tilting	REF	38117B	-	Pallet Fork, 60" × 4" × 2"	
2	66218B	1	Cylinder, Tilting Carriage w/O-Ring Ports					
			(Includes Items 3 & 4)	REF	38118B	-	Cubing Fork, $48" \times 2" \times 2"$	
			(See Page 11.5.1 for Breakdown)					
3	16228A	1	Bushing, Cylinder - Rod End	REF	17103B	-	Lumber Fork, $48" \times 6" \times 1 \ 1/2"$	
4	16227A	1	Bushing, Cylinder - Base End					
5	P32689	5	Cover, Grease Fitting	REF	23610B	-	Lumber Fork, $60" \times 6" \times 1 \ 1/2"$	
6	P16611	4	Grease Fitting					
7	P15337	1	Grease Fitting, 90°					
8	16323A	1	Washer, Special					
9	P19815	2	45° Elbow, O-Ring					
10	37863X	2	Hyd. Hose, $3/8" \times 40"$ (O-Ring Ends)					
11	66136X	2	Male, Quick Coupler, O-Ring					
12	P00403	1	Capscrew, Hx., 1/2"-13 × 1 1/4"					
13	P01312	1	Lockwasher, 1/2"					
14	35707A	1	Lock Pin					
15	38014A	1	Pin, Tilt Cylinder					
16	38065A	1	Pivot Shaft					
17	P03906	4	Cotter Pin, 3/8" × 3"					
18	38004C	1	Inner Carriage					
19	38013A	1	Sleeve, Pivot					
20	38066A	1	Washer, Pivot					
21	37794X	1	Castle Nut, Hx., 2"-12					
22	16207A	1	Fork Shaft					
23	18129A	2	Washer, Fork Shaft					
24	24752B	2	Decal, Carriage Safety					
								_
				644D-3	34 S/N 108-			
REF	38026B	_	Pallet Fork, 42" × 4" × 2"					



ITEM	PART NO.	QTY.	DESCRIPTION	
1	66218B	-	Cylinder Assembly, Tilting Carriage	
2	37652X	1	Barrel Weldment	
3	P19217	1	Locknut	
4	N.S.S.		* Wiper	
5	37051X	1	Piston	
6	N.S.S.	1	*Seal	
7	16228A	1	Bushing	
8	P16611	2	Grease Zerk	
9	P25297	1	Rod Weldment	
10	P23778	1	Retainer, Rod Bearing	
11	N.S.S.	1	≭ Back-Up Ring	
12	N.S.S.	1	≭ O-Ring	
13	P23788	1	Rod Bearing	
14	N.S.S.	1	★ O-Ring	
15	N.S.S.	1	≭ Piston Seal	
16	16227A	1	Bushing	
REF	37050X	1	Seal Kit	
NOTE	:S:			
	tems Included	in Seal	Kit.	
		N.S	S.S. = Not Sold Separately	
			,	
				644D-34 S/N 108–
1				

Part Num	ber Page(s)	Part Nui	mber Page(s)	Part Nu	mber Page(s)	Part Nu	mber Page(s)	Part Nu	mber Page(s)
N12350	10.1.1	P00234	3.3.	P01279	4.2.1	P01402	3.1.1, 3.1.1., 5.1.1.1,	P01659	2.1.1, 2.1.1.1, 2.1.1.2
N12354	3.3.1, 10.5.1	P00245	3.3. ⁻	P01305	9.2.1		5.7.1.1, 5.7.1.2,	P01662	2.1.1, 2.1.1.1, 2.1.1.2
N12356	10.5.1, 10.7.1	P00284	2.1.1, 2.1.1.1, 2.1.1.2	P01306	3.2.1, 9.3.1, 9.3.1.1		9.2.1, 9.3.1, 9.3.1.1,	P01680	2.2.1
N12360	10.5.1	P00342	2.1.1, 2.1.1.1, 2.1.1.2	P01308	.2.1.1, 2.1.1.1, 2.3.1,		10.6.1	P01681	3.2.1, 3.2.1.1
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N12364	10.5.1, 10.6.1		4.2.1, 4.3.1, 4.4.1,		5.1.1, 5.1.1.1, 5.7.1,		3.2.1.1, 3.3.1,	P01757	6.7.1, 6.8.1
	10.6.1		4.7.1, 6.1.1, 11.3.1,		5.7.1.1, 5.7.1.2,		5.7.1.1, 5.7.1.2,	P01763	6.7.1, 6.8.1
	3.2.1, 3.3.1		11.4.1		8.8.1, 9.2.1, 9.3.1,	1	9.3.1, 9.3.1.1	P01766	6.6.1
	. 2.3.1, 9.3.1, 9.3.1.1,	P00404	. 4.2.1, 5.7.1, 5.7.1.1		9.3.1.1, 10.6.1	P01405	3.3.1	P01816	8.8.1
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P00005	2.1.1, 2.1.1.1, 10.6.1,	P00407	5.7.1, 5.7.1.1, 5.7.1.2	2	3.1.1., 3.3.1, 5.7.1.1,		4.3.1, 4.4.1	P01826	6.1.1
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	8.3.1	P00706	3.1.1, 3.1.1		4.4.1, 4.7.1, 5.7.1,		9.3.1, 9.3.1.1	P03236	4.2.1, 4.3.1
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	2.3.1.1, 3.2.1,		1.1.		4.3.1, 4.4.1	P01531	10.8.1		11.3.1, 11.4.1
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	5.7.1.1, 5.7.1.2	P01259	3.1.1, 3.1.1		4.2.1	P01654	2.5.1, 10.6.1		2.1.1.2, 2.5.1
	2.2.1.1, 4.7.1	P01277	2.1.1.1, 2.1.1.2	P01400	10.6.1, 10.8.1	P01656	10.6.1		
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	2.1.1.2, 2.2.1		5.7.1.2, 8.8.1	P18991	10.1.1	P23222	9.3.1, 9.3.1.1	P27933	6.3.1, 6.3.1.
P04207	2.2.1.1	P15447	6.5.1	P18992	10.1.1	P23310	1.16.1	P27937	5.7.1, 5.7.1.1, 5.7.1.
P04606	2.5.1	P16057	10.6.1	P18995	8.2.1, 8.2.1.1	P23509	1.22.1, 1.24.1	P27993	5.8.
P04607	2.1.1, 2.1.1.1	P16611	1.3.1, 1.2.1, 1.4.1,	P18996	5.7.1, 5.7.1.1, 5.7.1.2	P23778	11.5.1	P28146	7.1.
P04608	2.1.1,2.1.1.1,		4.3.1, 5.2.1, 5.8.1,	P19043	1.1.1	P23788	11.5.1	P28381	5.3.
	2.1.1.2, 2.4.1, 2.4.1.1		5.11.1, 7.7.1, 11.3.1,	P19055	6.1.1	P23799	5.4.1	P28470	3.3.
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	2.1.1.2, 2.2.1,	P16675	2.4.1, 2.4.1.1	P19111	5.2.1	P24305	2.4.1, 2.4.1.1	P28823	8.2.1, 8.2.1.
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P04630	2.1.1, 2.1.1.1, 2.1.1.2	P17802	1.26.1, 2.1.1, 2.1.1.1,	P19217	5.4.1, 11.5.1	P24609	7.3.1	P29100	8.8.
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P05001	6.5.1		5.7.1.2, 6.1.1	1 102 10	5.7.1, 5.7.1.1, 5.7.1.2	P24651	5.3.1, 5.3.1.1	P29195	7.1.
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P05027	6.5.1		5.7.1.1, 5.7.1.2, 6.1.1	P19414	8.8.1	P25213	8.8.1	P29694	9.3.1, 9.3.1.
P05028	6.5.1	P17989	1.26.1, 2.1.1.1,	P19472	9.3.1, 9.3.1.1	P25297	11.5.1	P29768	7.1.
P05029	6.5.1		2.1.1.2	P19724	7.2.1	P25302	7.3.1	P29878	5.11.1, 7.7.
P05320	1.26.1	P18085	8.8.1	P19815	11.3.1, 11.4.1	P25396	8.2.1, 8.2.1.1, 8.4.1	P29947	5.7.1, 7.2.
P10178	2.4.1, 2.4.1.1	P18141	3.4.1, 3.4.1.1	P19836	5.5.1, 5.7.1	P25390	3.3.1	P29968	8.8.
P10601	2.4.1, 2.4.1.1	P18738	3.5.1	P19845	8.2.1, 8.2.1.1	P25404	7.1.1	P30173	5.1.1, 5.1.1.1, 5.7.1.
P11092	3.4.1	P18740	3.5.1	P19921	6.4.1	P25697	7.1.1	P30173	5.5.1, 5.7.1.
P11124	2.3.1, 2.3.1.1	P18894	8.8.1	P20069	2.5.1	P25852	7.2.1	P30174	8.2.1, 8.2.1.
P11694	1.3.1, 1.2.1, 1.4.1	P18922	6.1.1	P20459	3.3.1	P25861		1	
P11695	1.2.1	P18924	5.7.1.1, 5.7.1.2	l	5.7.1, 5.7.1.1, 5.7.1.2	1	7.3.1	P30249	6.1.
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