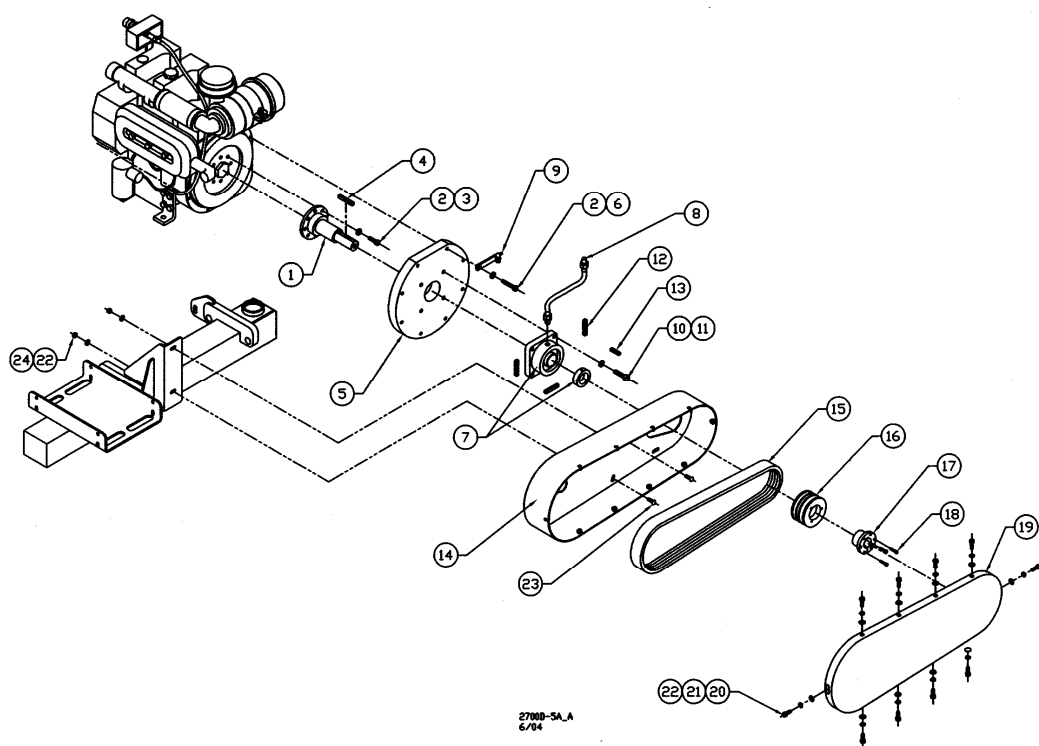




ENGINE BELT ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1	2700D116	Stub Shaft	1
2		10MM Lock Washer	16
3		10 MM x 35MM Bolt	8
4	A160T015	Key – 3/8" Sq. x 2 3/4"	1
5	2700D117	Bearing Plate	1
6		10MM x 60MM Bolt	8
7	0500120A	Outboard Bearing – 1 3/4"	1
8	0300521	1/4" Hose x 10" w/ (2) 4FJX Fittings	1
9		Bar W/ 1/4" 90° Grease Fitting	1
10	0150406	1/2" Lock Washer	4
11	0150106A	1/2"-13 x 1 1/2" Hex Head Bolt	4
12	A160T016	Key Stock – 3/8" Sq. x 2 1/2"	3
13	A160T05	Key – 5/16" x 3/8" x 1 5/8"	1
14	2700D268_A	V-Belt Guard Weldment	1
15		V-Belt -	1
16	0250210	Pulley – 3-5V4.4	1
17	0250121	Bushing – SD x 1 7/16"	1
18	0150102	1/4"-20 x 1" HH Bolt	3
19	2700D266_A	V-Belt Guard Cover Weldment	1
20	0150118	3/8"-16 x 1 Hex Head Bolt	10
21	0150404	3/8" Lock Washer	10
22	0150303	3/8" Flat Washer	12
23	0150117	3/8"-16 x 1 Carriage Bolt	2
24	0150207	3/8"-16 Lock Nut	2

ENGINE BELT ASSEMBLY



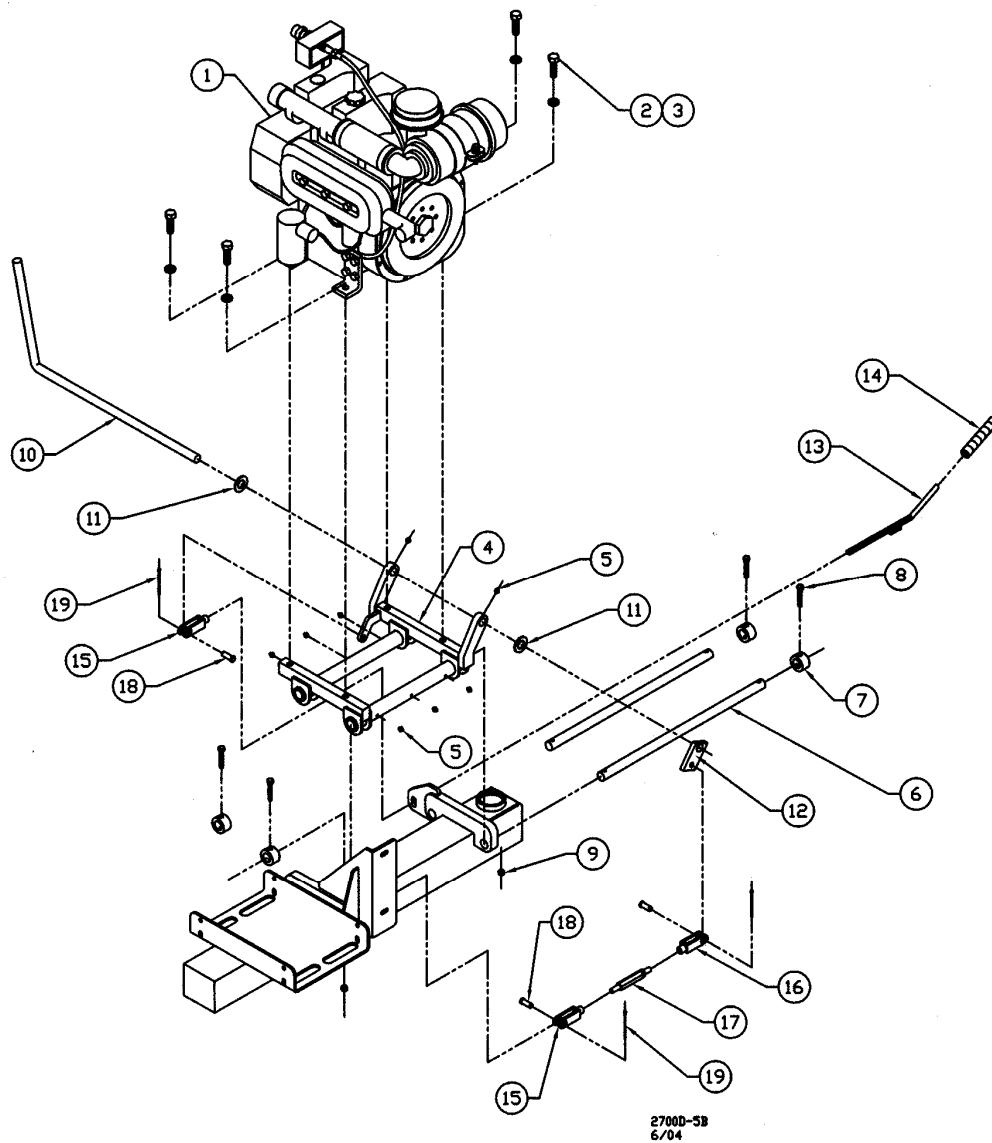
#12 Key Stock is welded to Bearing Plate after Outboard Bearing is attached to keep bearing from moving. One piece is on each side and one at the bottom of the bearing.



ENGINE SLIDE ASSEMBLY

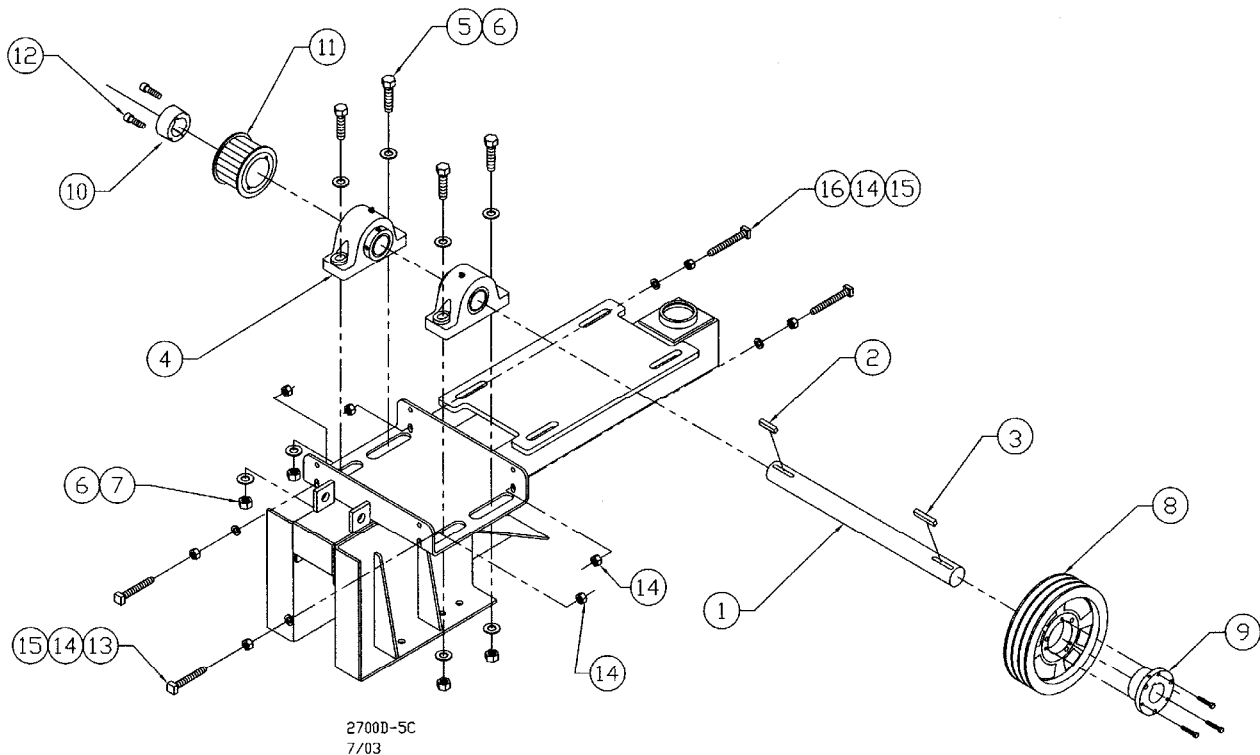
ITEM NO	PART NO	DESCRIPTION	QTY
1	0200104	27 HP Lombardini Diesel	1
2	0150125A	5/8"-11 x 2" Hex Head Bolt	4
3		5/8" Lock Washer	4
4		Engine Slide Assembly	1
5		Grease Fitting – 1/4"-28 Straight	8
6	2700D360	Engine Slide Rod	2
7	2700D361	Slide Rod Collar	4
8		3/8"-16 x 2 1/4" HH Bolt	4
9		3/8"-16 Lock Nut	4
10	2700D367	Engagement Handle	1
11	0150313	7/8" Flat Washer	2
12	2700D370	Engagement Linkage Ear	1
13	4404155	Engine Slide Lock	1
14	0400212	Handle Grip – 1/2"	1
15	0150606	Clevis – 1/2"-20 - RH	2
16	0150606A	Clevis – 1/2"-20 - LH	1
17	4100154	Engagement Linkage	1
18	0150603	Clevis Pin 1/2" x 1 3/8" (.15Ø Hole)	3
19	0150504	Cotter Pin – 1/8" x 1 1/2"	3

ENGINE SLIDE ASSEMBLY



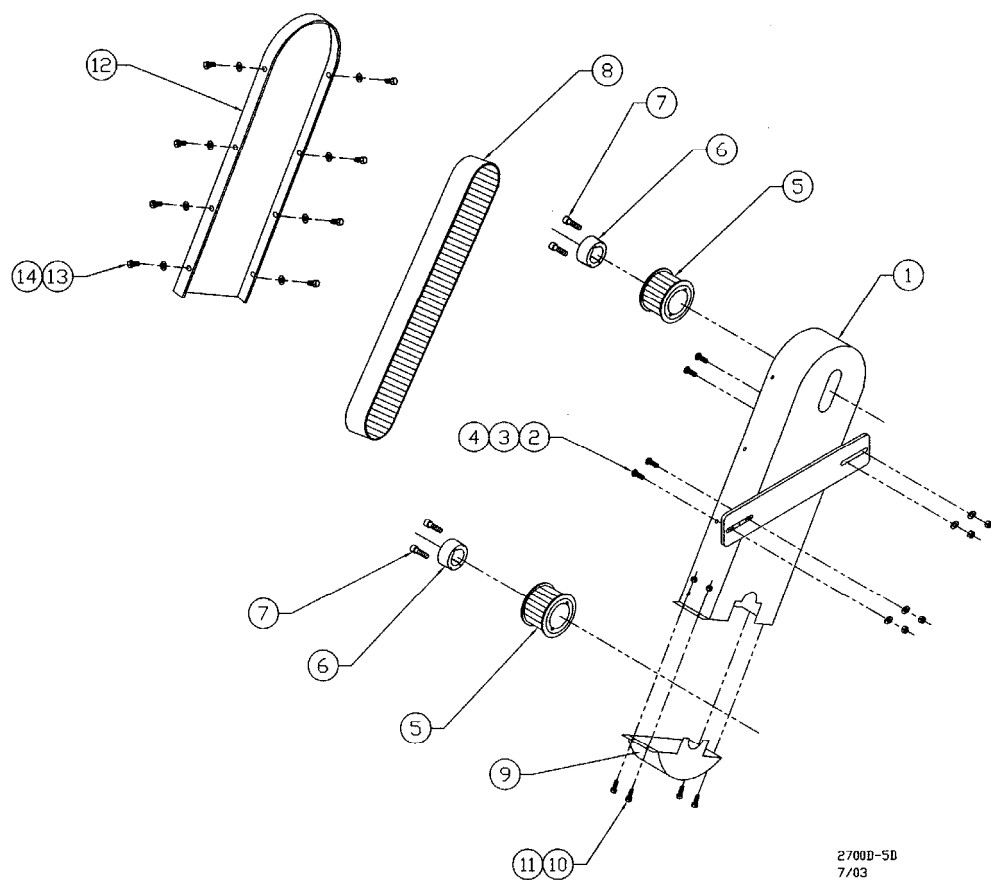
JACK SHAFT ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1	2700D185	Jack Shaft – 1 11/16"	1
2	A160T011	Key - 3/8" x 1 3/4"	1
3	A160T012	Key – 3/8" x 2 1/4"	1
4	0500113	Bearing – 1 11/16"	2
5	0150125	5/8"-11 x 2 1/2" HHCS	4
6	0150305	5/8" Flat Washer	8
7	0150216	5/8"-11 Lock Nut	4
8	0250101C	Pulley – SK – 3B90	1
9	0250122	Bushing – SKX – 1 11/16"	1
10	0250115F1	Tapered Bushing – 2012 x 1 11/16"	1
11	0250115A	Poly Chain® Sprocket - 8MX-40S-62	1
12	0150713	7/16"-14 x 1 1/2" SHC	2
13		1/2"-13 x 3 1/2" SQHD Bolt	2
14	0150206	1/2"-13 Lock Nut	8
15	0150406	1/2" Lock Washer	4
16	0150115	1/2"-13 x 4" SQHD Bolt	2



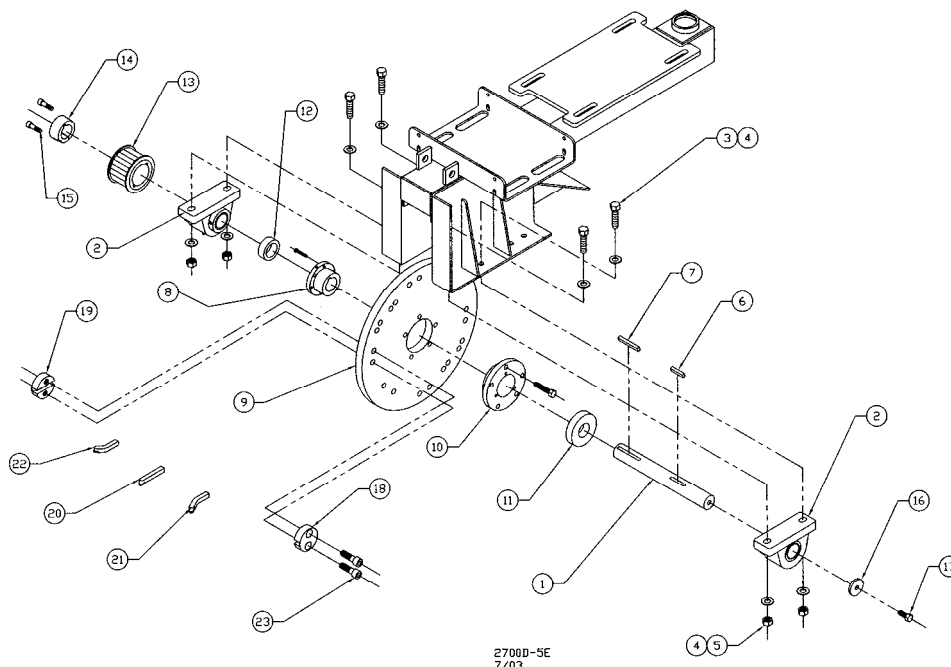
POLY CHAIN® BELT ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1	2300249	Poly Chain® Belt Guard	1
2	0150117	3/8"-16 x 1" Carriage Bolt	4
3	0150303	3/8" Flat Washer	4
4	0150207	3/8"-16 Lock Nut	4
5	0250115A	Poly Chain® Sprocket - 8MX-40S-62	2
6	0250115F1	2012 Taper Lock Bushing - 1 11/16"	2
7	0150713	7/16"-14 x 1 1/2" SHCS	4
8	0400112	Poly Chain® Belt - 8M-1200-62	1
9	2300225	Poly Chain® Bottom Guard	1
10	0150116	5/16"-18 x 1" HHCS	4
11	0150212	5/16"-18 Lock Nut	4
12	2300248	Poly Chain® Guard Cover	1
13	0150103	3/8"-16 x 1" HHCS	8
14	0150404	3/8" Lock Washer	8

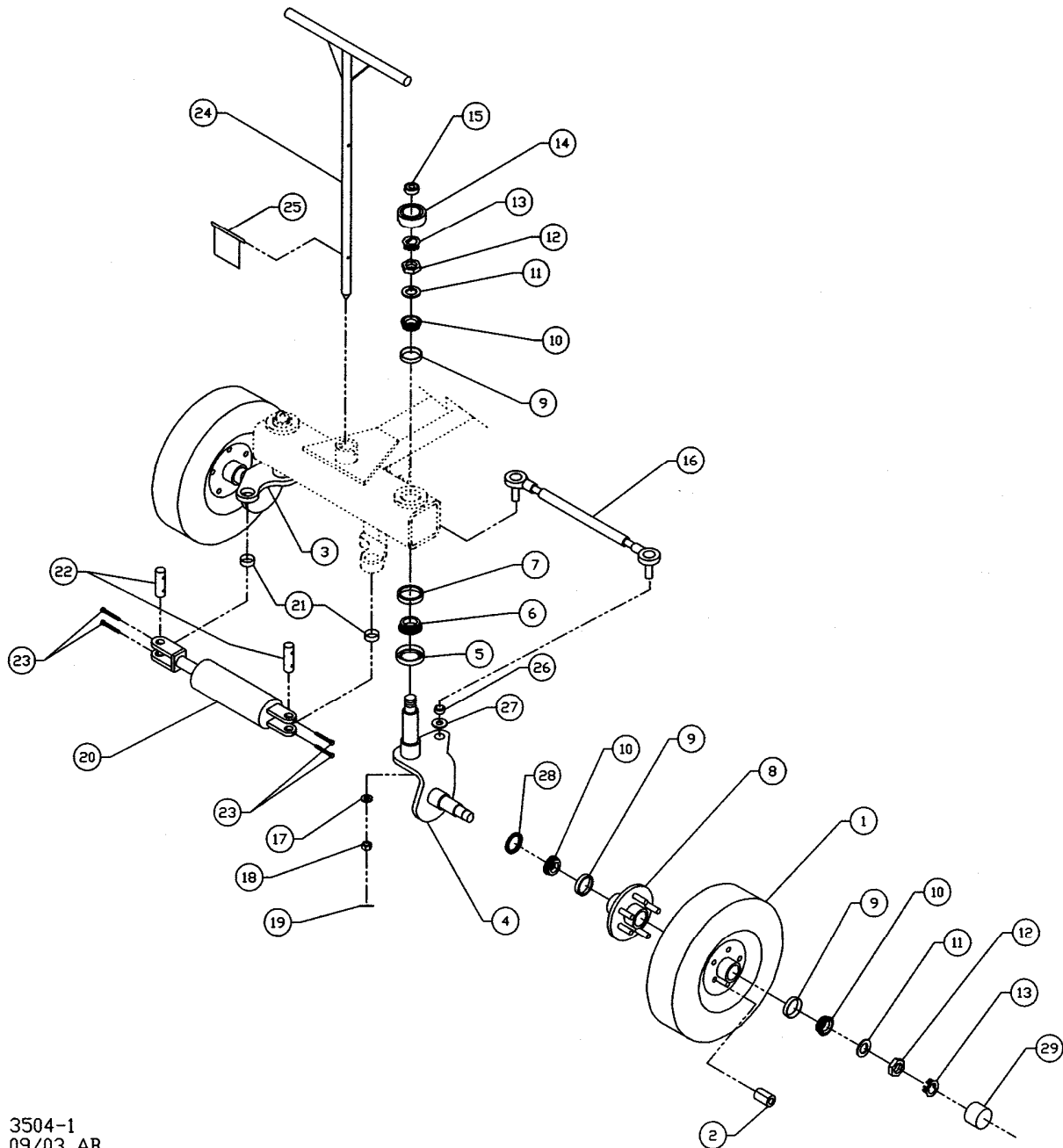


CUTTERWHEEL ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1	2700D184	Cutterwheel Shaft – 1 11/16"	1
2	0500113	Bearing – 1 11/16"	2
3	0150125B	5/8"-11 x 2 3/4" HHCS	4
4	0150305	5/8" Flat Washer	8
5	0150216	5/8"-11 Lock Nut	4
6	A160T013	Key - 3/8" x 1 7/8"	1
7	A160T014	Key - 3/8" x 3"	1
8	0250122	Bushing – SKX – 1 11/16"	1
9	2300186	Cutterwheel - 1"	1
10	2300188	Cutterwheel Hub	1
11	2300183A	Spacer – 3 7/8" OD x 1 11/16" ID x 7/8"	1
12	2300183B	Spacer – 2 7/16" OD x 1 11/16" ID x 7/8"	1
13	0250115A	Poly Chain® Sprocket - 8MX-40S-62	1
14	0250115F1	2012 Taper Lock Bushing – 1 11/16"	1
15	0150713	7/16"-14 x 1 1/2" SHCS	2
16	2300197	Shaft Washer	1
17	0150108	1/2"-13 x 1 1/4" HHCS	1
18	0450106	Round Pocket - C/S	10
19	0450107	Round Pocket - Thd.	10
20	0450101	Tooth - Straight	2
21	0450102	Tooth - Right 45	9
22	0450103	Tooth - Left 45	9
23	0450109	5/8"-18 x 2 1/8" Tooth Bolt	20



ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	05500091	Tire Assembly - 570x8 (5 Lug)	2
2	0550102	Lug Nut – 1/2"-20	10
3	2300289	R/H Steering Frame	1
4	2300290	L/H Steering Frame	1
5	0550208	E/Z Lube Grease Seal	2
6	0550209	Inner Bearing	2
7	0550210	Inner Bearing Race	2
8	0550212	Wheel Hub - 5on5 1/2	2
9	0550213	Outer Bearing Race	6
10	0550214	Outer Bearing	6
11	0550215	Spindle Washer	4
12	0550216	Spindle Jam Nut - 1"-14	4
13	0550217	Spindle Nut Retainer	4
14	0550218	Grease Cap - E/Z Lube	2
15	0550219	Grease Cap Rubber Plug	2
16	3504133	Steering Linkage	1
17	0150304	1/2" Flat Washer	2
18	0150231	1/2"-13 Castle Nut	2
19	0150504	Cotter Pin - 1/8" x 1"	2
20	0300105	Steering Cylinder - 2x4	1
21	0150801	Hardened Bushing - 1"	2
22	0300105Q	Cylinder Pin - Captured	2
23		1/4"-28 x 2" HHCS	4
24	2300158	Ground Stake	1
25	0150604	Lynch Pin - 3/8" x 2 3/4"	1
26	0150805	5/8" Hardened Spring Bushing	2
27		1/2" Flat Washer (1 3/8" OD)	2
28		Grease Seal	2
29		End Cap	2

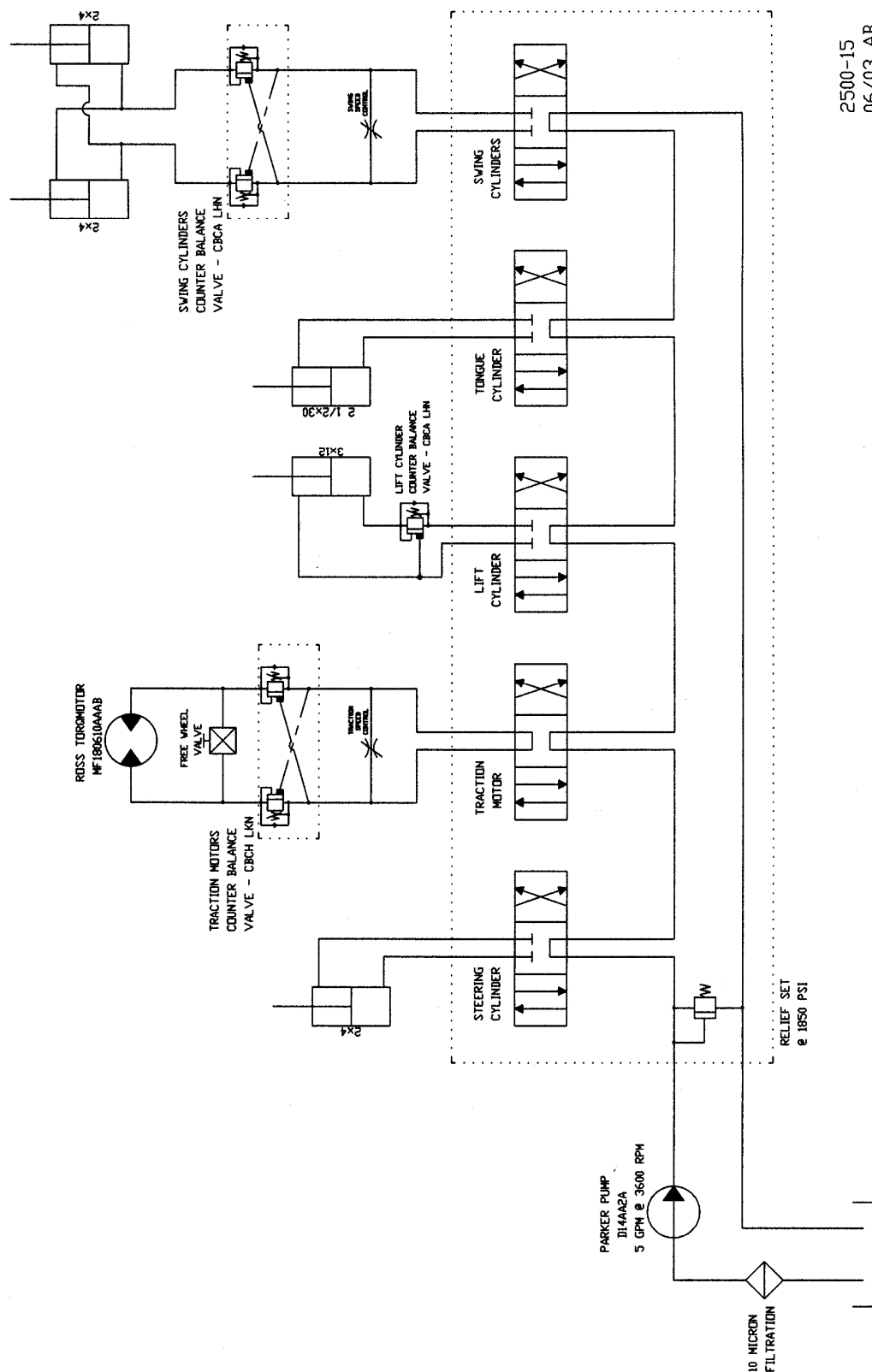


3504-1
09/03 AB

Part # 8 comes complete with parts # 9, 10, 11, 12, 13, 28, & 29 as shown for front wheel.
All parts can be purchased separately also.

HYDRAULIC SCHEMATIC

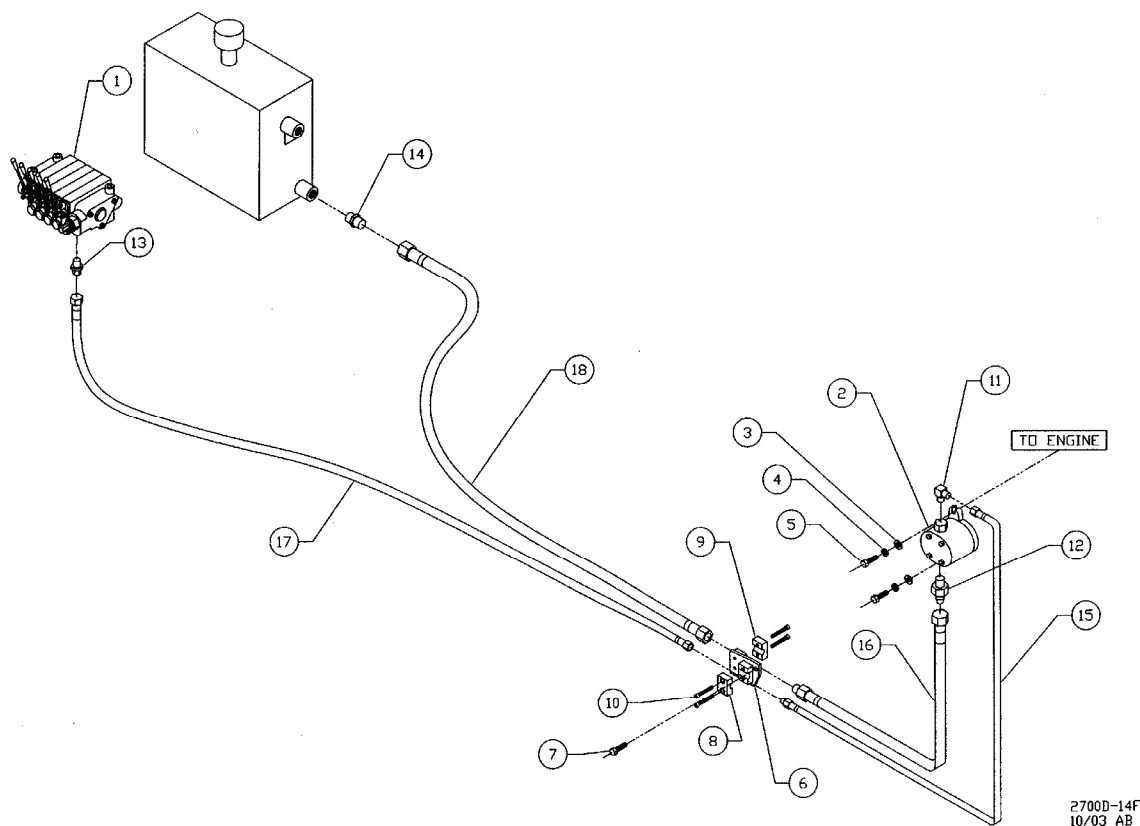
4-WHEELER HYDRAULIC SCHEMATIC



2500-15
06/03 AB

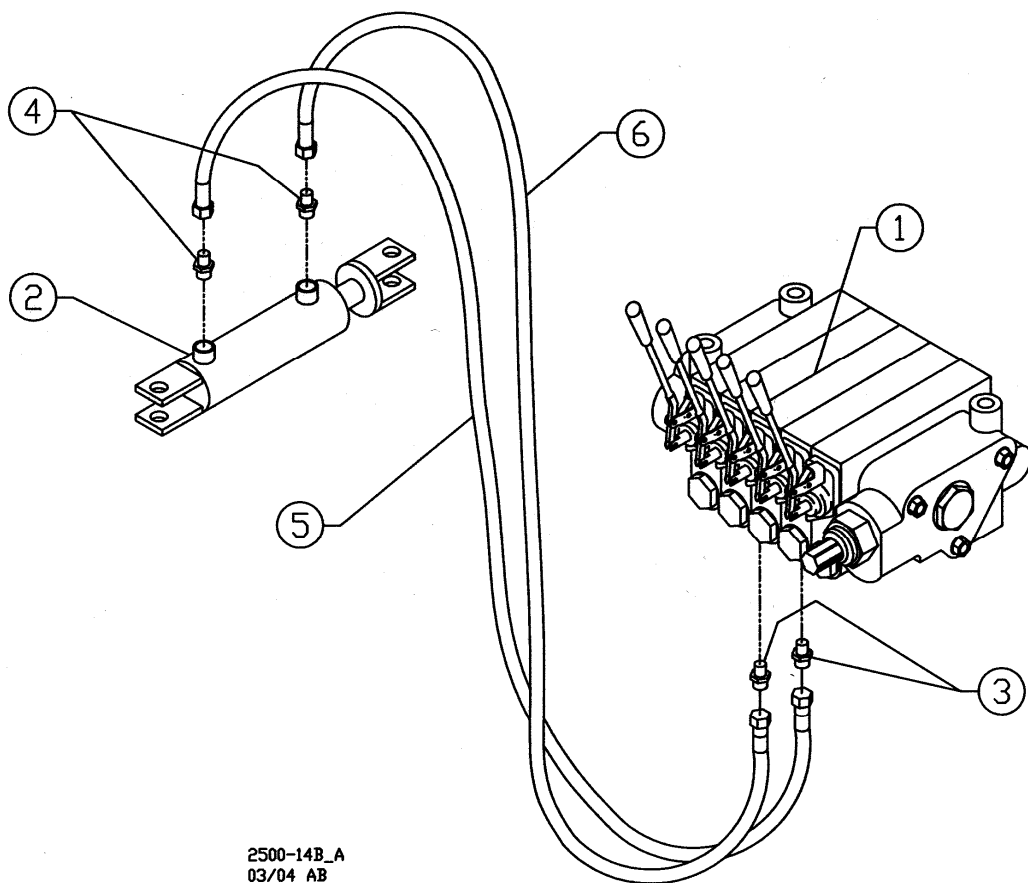
HYDRAULIC INLET ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1		Work Section	1
2	0300142AC	Hydraulic Pump – Dbl. A – Left Hand	1
3	0150303	3/8” Flat Washer	2
4	0150404	3/8” Lock Washer	2
5	0150118	3/8”-16 x 1 1/2" HHCS	2
6	2700D172	Hydraulic Line Retainer Bracket	1
7		5/16”-18 x 2 1/4" HHCS	1
8	0150807	Hydraulic Line Retainer – 1/2"	1
9	0150808	Hydraulic Line Retainer – 3/4"	1
10		1/4"-20 x 1 1/2" SHCS	4
11	0300219	1/2" O’Ring – 1/2" JIC 90°	1
12	0300212	5/8” O’Ring – 3/4" JIC	1
13	0300236	1/2" O’Ring – 1/2" JIC	1
14	0300354J1	3/4" Pipe – 3/4" JIC 45°	1
15		Hydraulic Hard Line – 1/2"	1
16		Hydraulic Hard Line – 3/4"	1
17		Hose Assembly	1
18		Hose Assembly	1



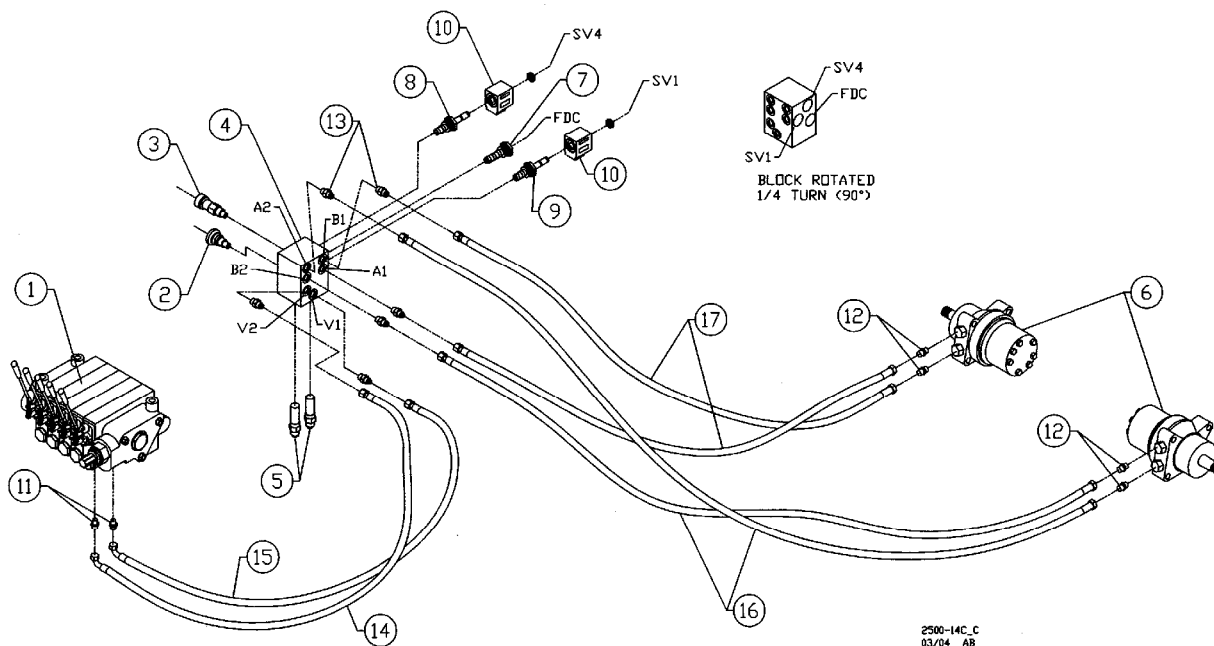
STEERING HYDRAULIC ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1		Work Section	1
2	0300105A	Hydraulic Cylinder	1
3	0300257	1/2" O-Ring - 3/8" JIC	2
4	0300279	1/2" O-Ring - 3/8" JIC 45	2
5		Hose Assembly	1
6		Hose Assembly	2



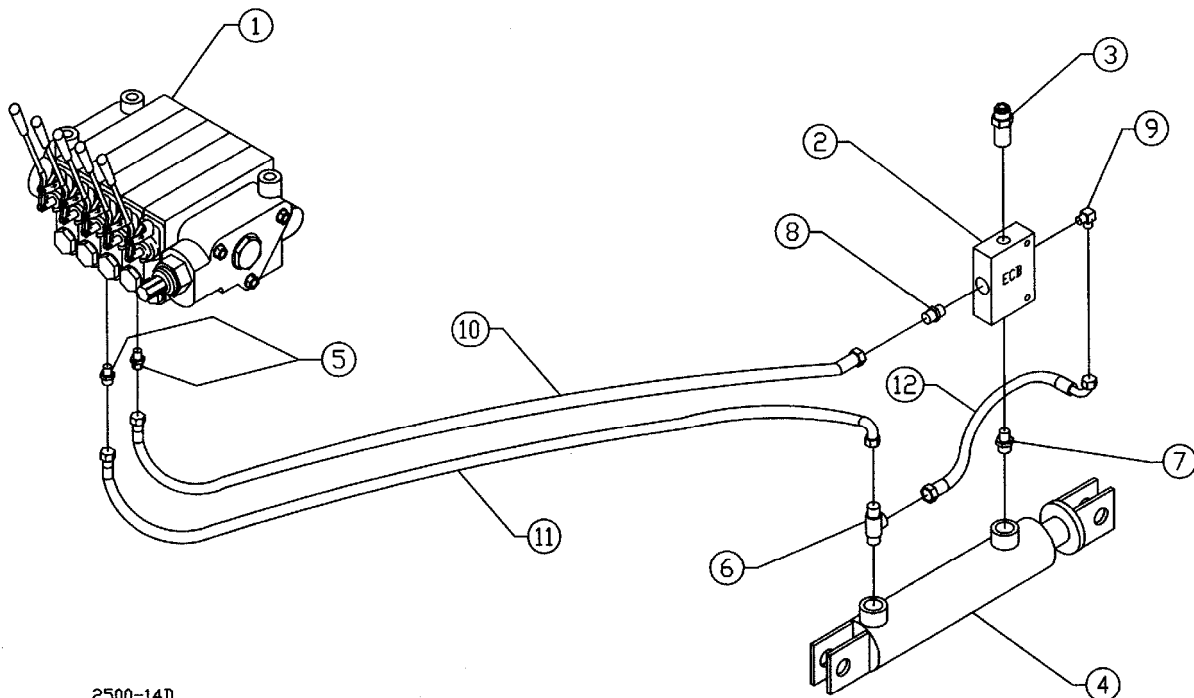
TRACTION HYDRAULIC ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1		Work Section	1
2	0300138	Needle Cartridge	1
3	0300127C	Free-Wheel Cartridge	1
4	0300128	Parallel Module	1
5	0300120A	Cartridge Valve – LKN-CBCG	2
6	0300118A1	Hydraulic Traction Motor	2
7	0300128A	Divider / Combiner	1
8	0300128B	4-Way 2-Position Cartridge	1
9	0300128C	3-Way 2-Position Cartridge	1
10	0300128D	Solenoid	1
11	0300257	1/2" O-Ring - 3/8" JIC	2
12	0300211	5/8" O-Ring – 3/8" JIC	4
13	0300237	3/8" O-Ring – 3/8" JIC	6
14		Hose Assembly	1
15		Hose Assembly	1
16		Hose Assembly	2
17		Hose Assembly	2



LIFT HYDRAULIC ASSEMBLY

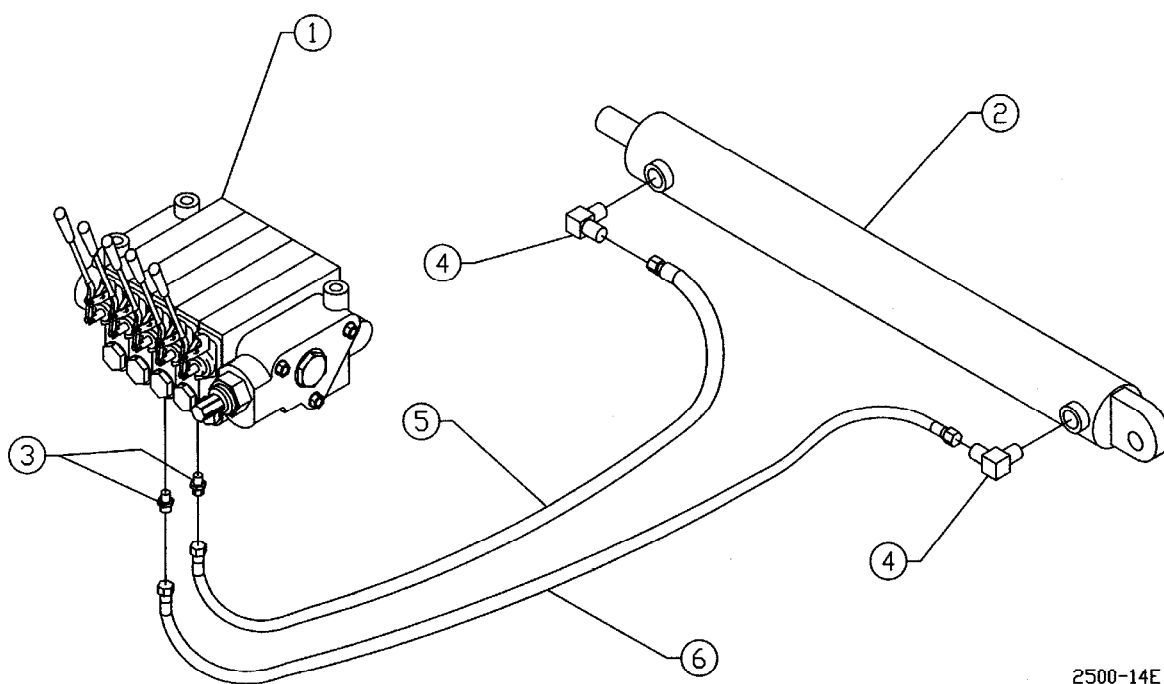
ITEM NO	PART NO	DESCRIPTION	QTY
1		Work Section	1
2	0300122	Valve Body - ECB	1
3	0300120	Cartridge Valve - LHN	1
4	0300105F	Hydraulic Cylinder - 3" x 12"	1
5	0300257	1/2" O- Ring - 3/8" JIC	2
6	0300224	1/2" MP - 1/2" FP - 1/2" FP Tee	1
7	0300231	1/2" MP - 3/8" MP	1
8	0300210	3/8" MP-3/8" JIC	1
9	0300213	1/4" MP - 3/8" JIC 90	1
10		Hose Assembly	1
11		Hose Assembly	1
12		Hose Assembly	1



2500-14D

TONGUE HYDRAULIC ASSEMBLY

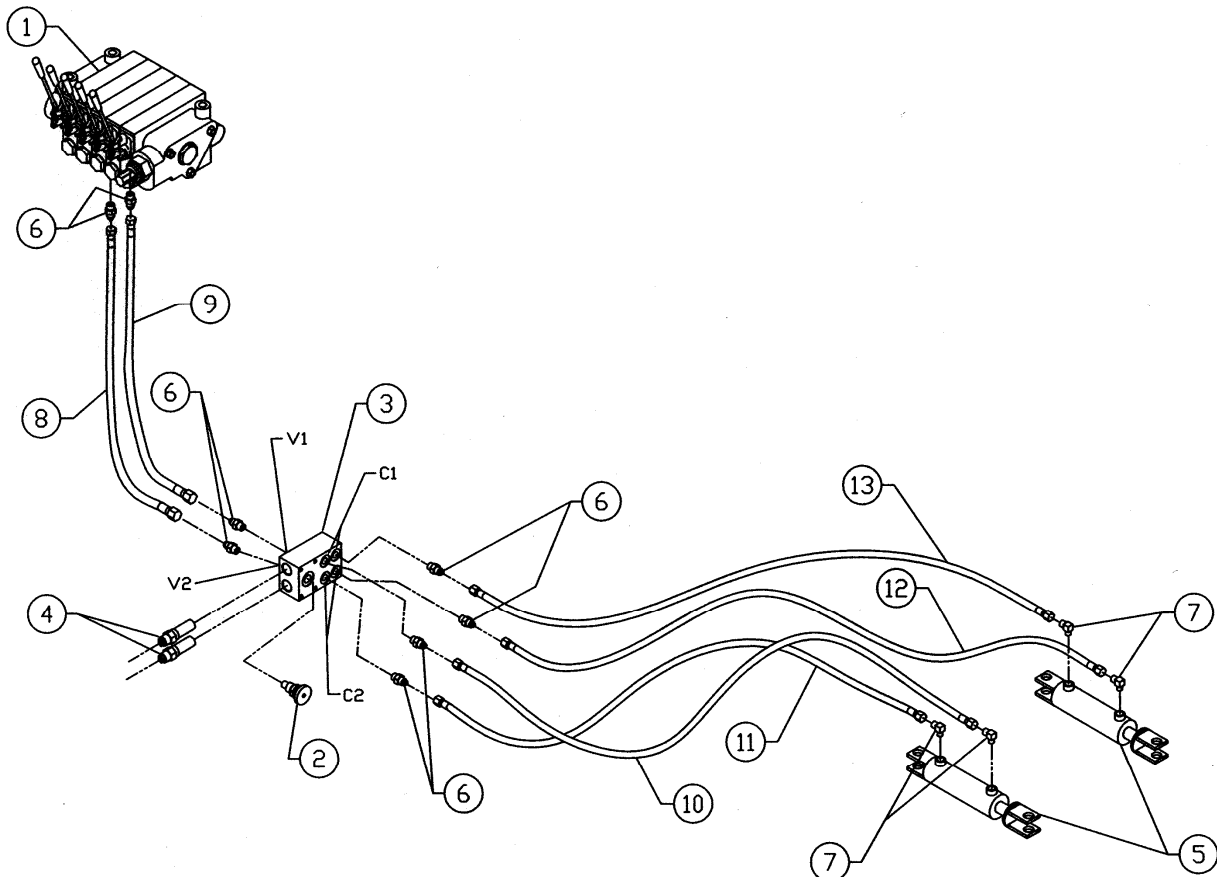
ITEM NO	PART NO	DESCRIPTION	QTY
1		Work Section	1
2	0300105B	Hydraulic Cylinder - 2 1/2" x 30"	1
3	0300257	1/2" O-Ring - 3/8" JIC	2
4	0300215	1/2" MP - 3/8" JIC 90	2
5		Hose Assembly	1
6		Hose Assembly	1



2500-14E

SWING HYDRAULIC ASSEMBLY

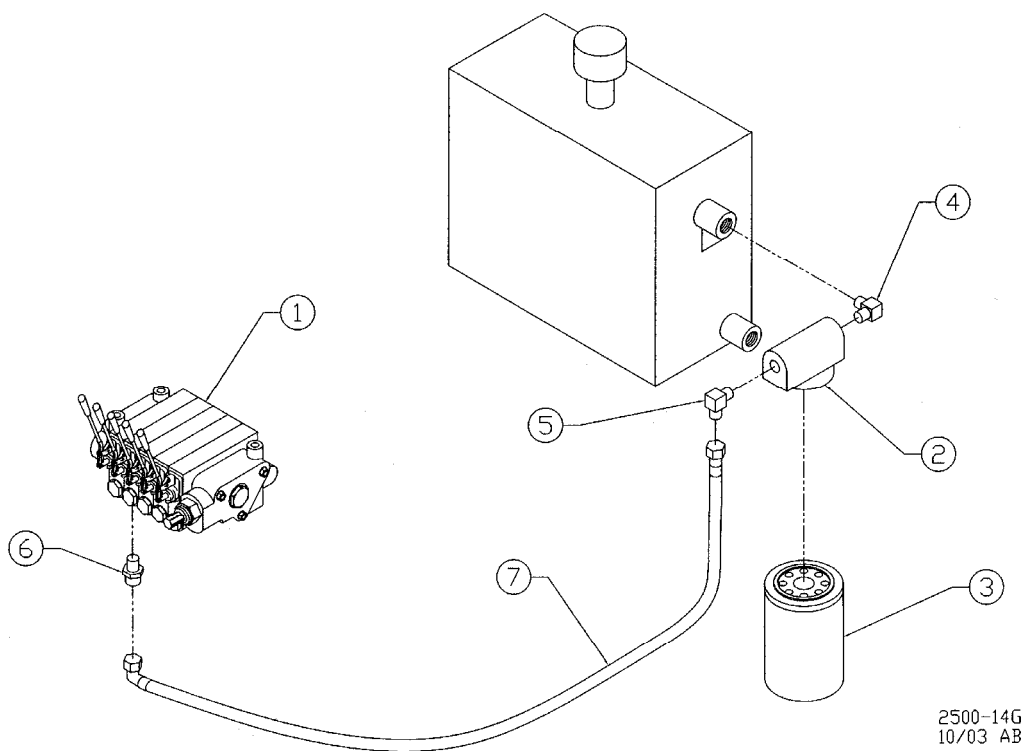
ITEM NO	PART NO	DESCRIPTION	QTY
1		Work Section	1
2	0300138	Needle Cartridge	1
3	0300127A	Swing Manifold	1
4	0300120A	Cartridge Valve – LKN-CBCG	2
5	0300105	Hydraulic Cylinder - 2"x4"	2
6	0300257	1/2" O-Ring - 3/8" JIC	8
7	0300219	1/2" O-Ring – 1/2" JIC 90	4
8		Hose Assembly	1
9		Hose Assembly	1
10		Hose Assembly	1
11		Hose Assembly	1
12		Hose Assembly	1
13		Hose Assembly	1



2500-14A_B
03/04 AB

HYDRAULIC RETURN ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1		Work Section	1
2	0300135C	Hydraulic Filter Head	1
3	0300135	Hydraulic Filter	1
4		3/4" MP – 3/4" MP 90°	1
5	0300217	3/4" MP – 1/2" JIC 90°	1
6	0300236	1/2" O-Ring – 1/2" JIC	1
7		Hose Assembly	1



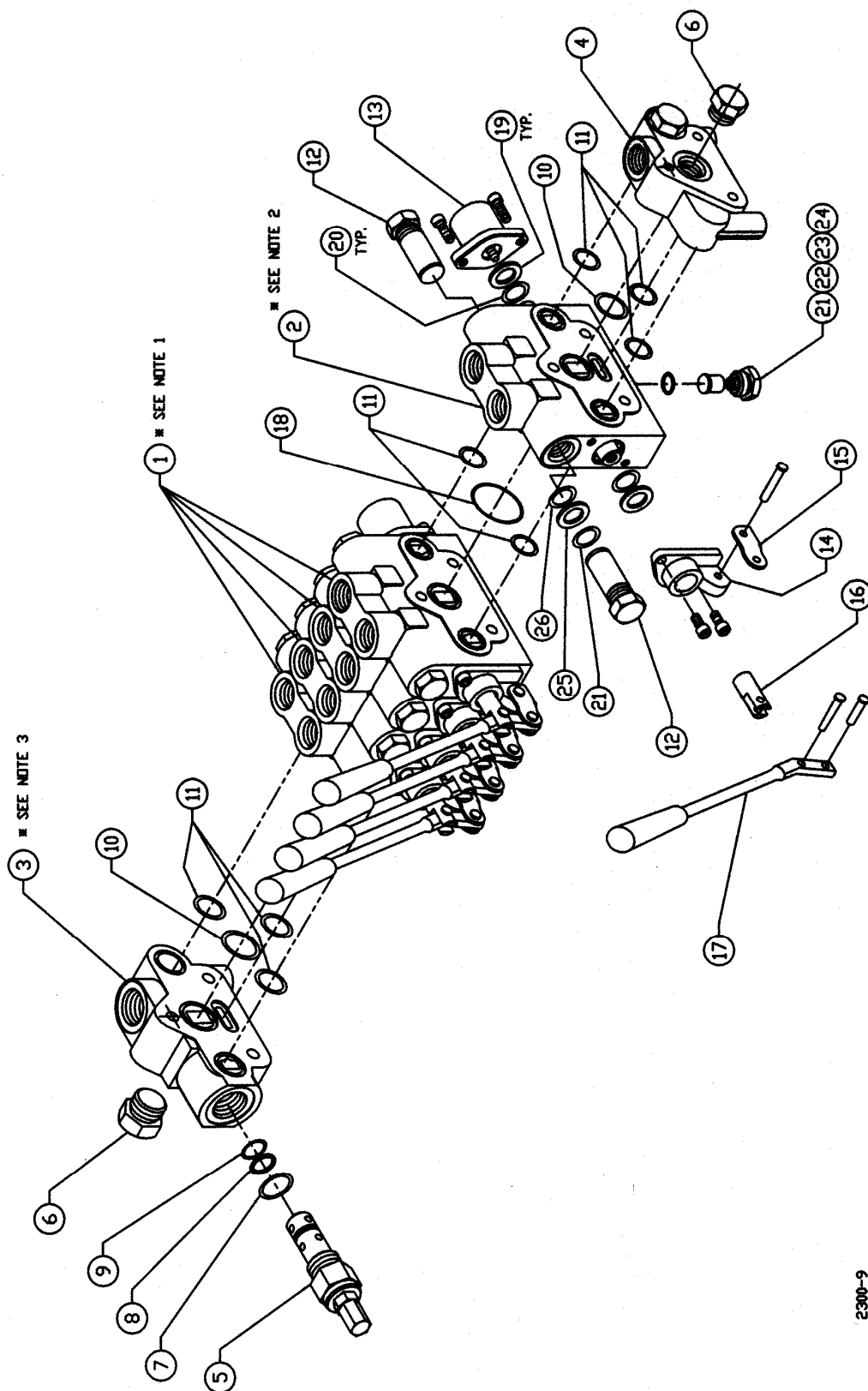
CONTROL VALVE ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1	0300055	Series Work Section - SVS	4
2	0300056	Work Section - SVH	1
3	0300057	Inlet Section - SVI	1
4	0300058	Outlet Section - SVE	1
5	0300064	Relief Valve	1
6	0300261	Steel Plug, 1/2 SAE	2
7	0300072	O-Ring	1
8	0300069	Back-Up Washer	1
9	0300073	O-Ring	1
10	0300074	O-Ring	1
11	0300075	O-Ring	14
12	0300065	Relief Plug	10
13	0300059	Spool End Cap	5
14	0300060	Handle Flange	5
15	0300061	Valve Handle Linkage	5
16	0300062	Spool Extension	5
17	0300063	Valve Handle Kit	5
18	0300076	O-Ring	4
19	0300070	Spool Back-Up Washer	10
20	0300077	O-Ring	10
21	0300078	O-Ring	16
22	0300066	Load Check Poppet	5
23	0300067	Spring	5
24	0300068	Load Check Plug	5
25	0300071	Back-Up Washer	10
26	0300079	O-Ring	10

NOTES:

1. SVS work section seal kit - P/N 0300080 - Includes items 11,18,20,21,25.
2. SVH work section seal kit - P/N 0300083 - Includes items 10,11,20,21,25.
3. SVI inlet section seal kit - P/N 0300084 - Includes items 10,11.

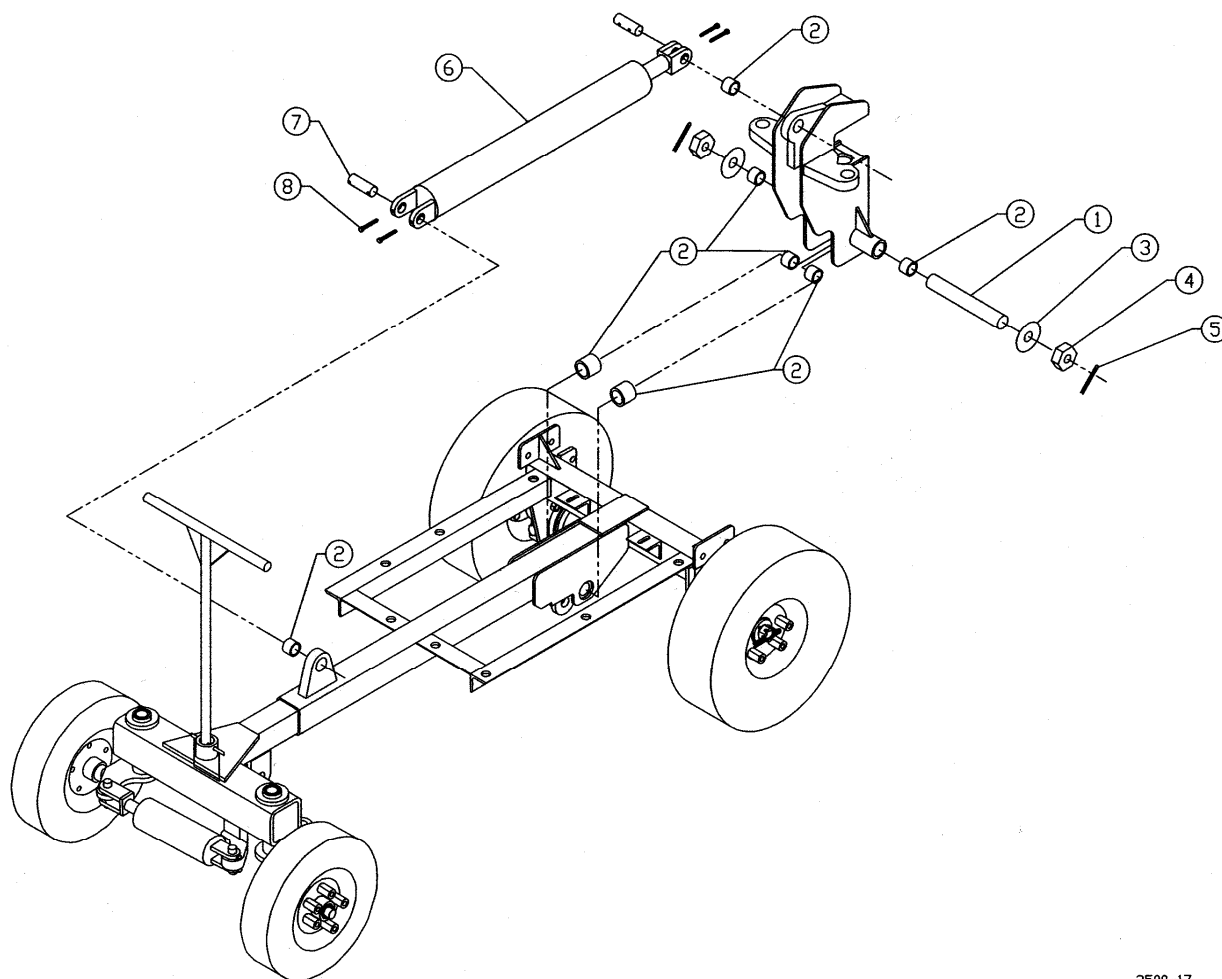
CONTROL VALVE ASSEMBLY



2300-9

LOWER PIVOT ASSEMBLY

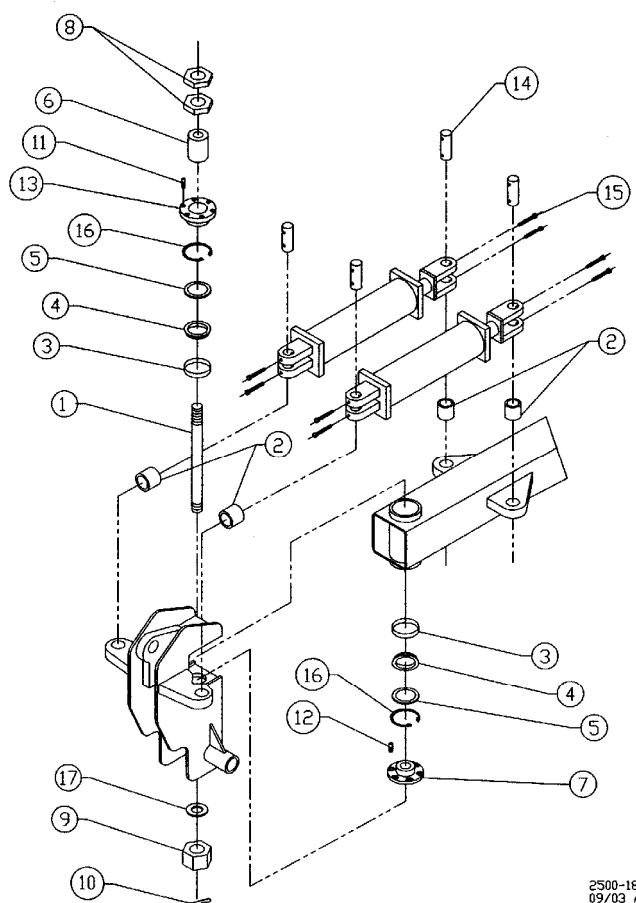
ITEM NO	PART NO	DESCRIPTION	QTY
1	2300189	Lift Pivot Shaft (Hardened)	1
2	0150801	Hardened Bushing	8
3	0150308	1" Flat Washer	2
4	0150209	1"-14 Hex Castle Nut	2
5	0150501	Cotter Pin - 3/16" x 2"	2
6	0300105F	Hydraulic Cylinder - 3"x12"	1
7	0300105Q	Cylinder Pin - Captured	2
8		1/4"-28 x 2" HHCS	4



2500-17
09/03 AB

UPPER PIVOT ASSEMBLY

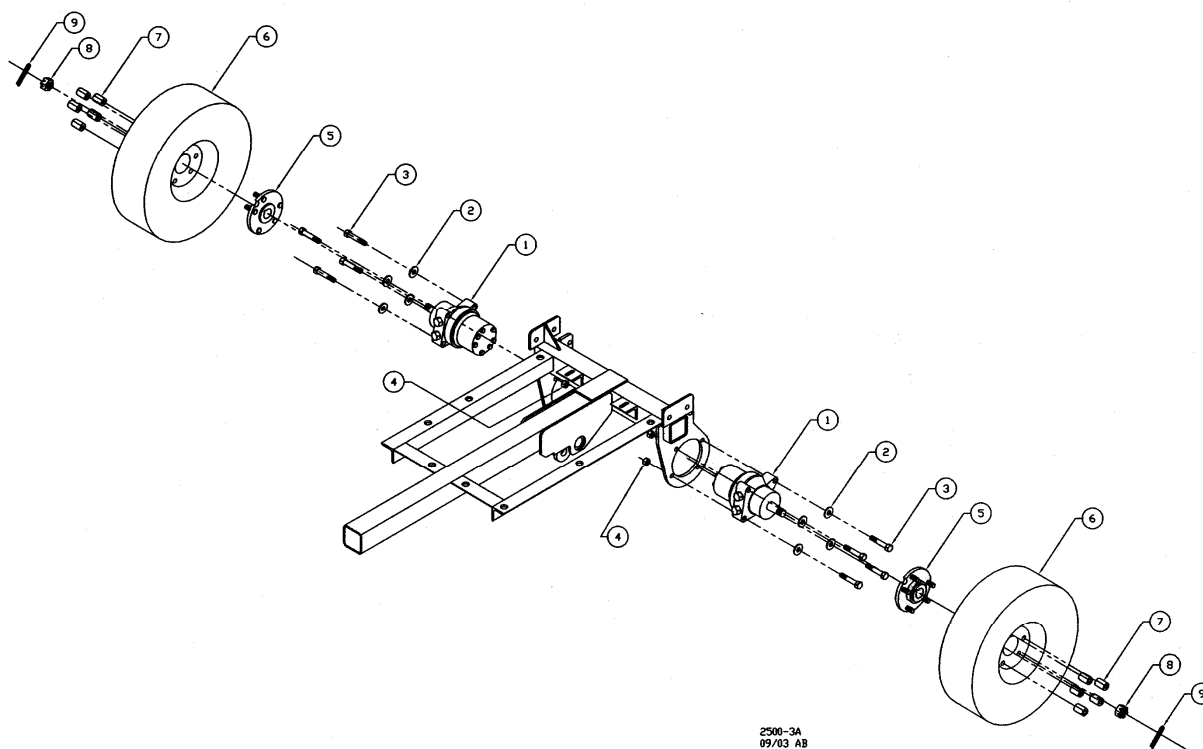
ITEM NO	PART NO	DESCRIPTION	QTY
1	2300159	Swing Pivot Shaft (Hardened)	1
2	0150801	Hardened Bushing	4
3	0500201	Bearing Race	2
4	0500121	Bearing	2
5	0500407	Grease Seal	2
6	2300255	Top Pivot Inner Bushing	1
7	2300256	Bottom Pivot Bushing	1
8	0150208	1"-14 Hex Jam Nut	2
9	0150209	1"-14 Hex Castle Nut	1
10	0150501	Cotter Pin - 3/16" x 2"	1
11	0150123	5/16"-18 x 3/4" SHCS	6
12	0150124	5/16"-18 x 3/4" FHSCS	6
13	2300257	Top Pivot Bushing	1
14	0300105Q	Cylinder Pin (Captured)	4
15		1/4"-28 x 2" HHCS	8
16		Snap Ring	2
17	0150308	1" Flat Washer	1



2500-18
09/03 AB

ITEM NO	PART NO	DESCRIPTION	QTY
1	0300118A1	Drive Motor	2
2	0150304	1/2" Flat Washer	8
3		1/2"-13 x 2 3/4" HHCS	8
4	0150206	1/2" Lock Nut	8
5	0550009H	Rear Hub – 5 x 4 1/2 Tapered Hub	2
6	05500091	Tire Assembly - 570x8 (5 Lug)	2
7	0550102	Lug Nut – 1/2"-20	10
8	0550009E	Slotted Hex Nut - 1"-14	2
9	0150501	Cotter Pin - 3/16" x 2"	2

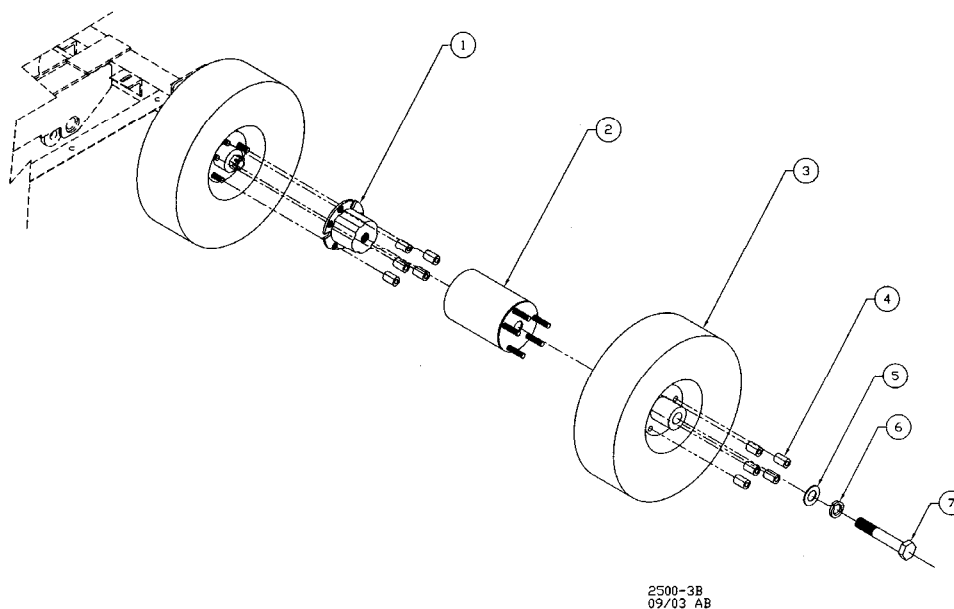
ADD NEW NUMBER FOR DRIVE MOTOR WITH COUNTER CLOCKWISE ROTATION



DUAL WHEEL ASSEMBLY

(Parts List For Two Assemblies, Only One Shown.)

ITEM NO	PART NO	DESCRIPTION	QTY
1	2500302	Inner Hub – 5 Bolt	2
2	2500303	Spacer – 5 Bolt	2
3	05500091	Tire Assembly - 570x8 (5 Lug)	2
4	0550102	Lug Nut – 1/2"-20	10
5	0150308	1" Flat Washer	2
6	0150409	1" Lock Washer	2
7		1"-8 x 7" HHCS	2

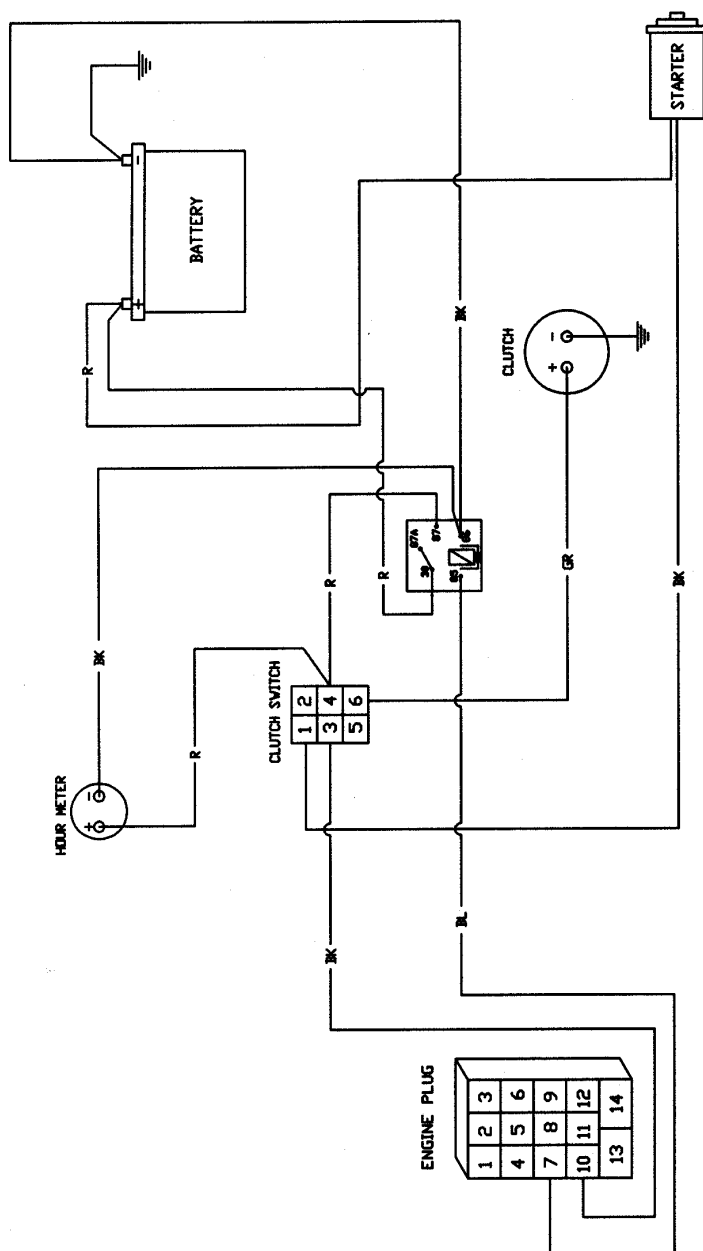


ASSEMBLY INSTRUCTIONS

1. Remove lug nuts and install inner hub.
2. Replace lug nuts and tighten.
3. Bolt wheel spacer to dual wheel and tighten with new lug nuts.
4. Place dual wheel up to rear wheel and bolt through center of wheel to inner hub.
5. Tighten.
6. Repeat for other side.

STANDARD WIRING DIAGRAM

2500D-4 DIESEL MACHINE STANDARD WIRING DIAGRAM



COLOR CODES

R	= RED
Y	= YELLOW
D	= ORANGE
PR	= PURPLE
GR	= GRAY
BK	= GREEN
BR	= BLUE
V	= BLACK
U	= BROWN
Y/BK	= WHITE
Y/R	= RED/BLACK
B/L	= ORANGE/BLACK
BL/R	= YELLOW/BLACK
BR/BK	= YELLOW/RED
GR/BK	= BLUE/BLACK
BK/Y	= BLUE/RED
BK/BL	= BROWN/BLACK
BK/GR	= GREEN/BLACK
BK/BR	= BLACK/YELLOW
Y/V	= BLACK/BLUE
	= BLACK/RED
	= BLACK/GREEN
	= BLACK/BROWN
	= YELLOW/WHITE

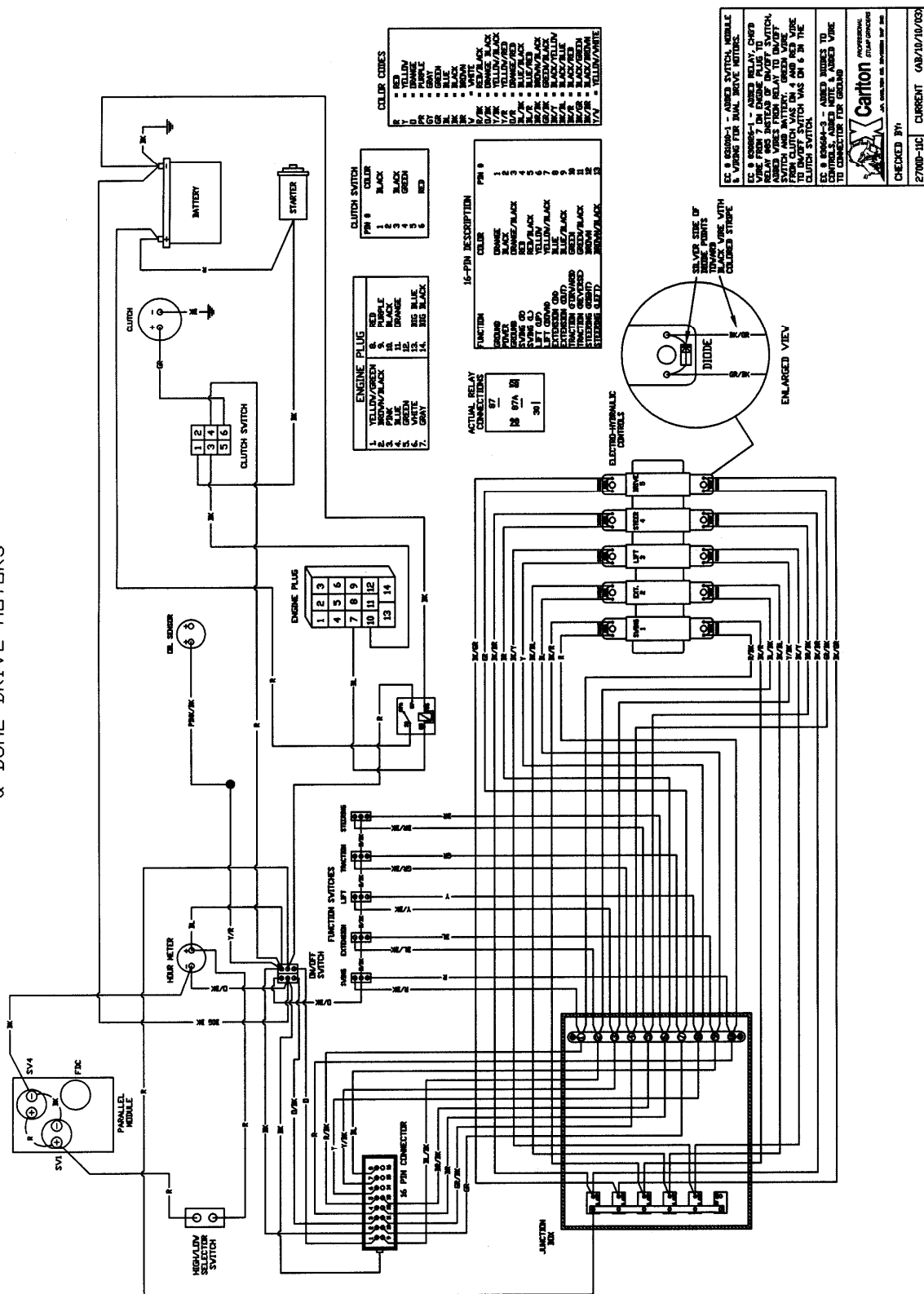
EC # 030627-1 - ADDED RELAY (MOVED BLUE WIRE FROM CLUTCH SWITCH TO #30 ON RELAY & MOVED BLACK WIRE FROM HOUR METER TO #86 ON RELAY)	Carlton PROFESSIONAL STUMP GRINDERS	CHECKED BY:
EC # 030528-1 - MOVED RED WIRE FROM OIL SENSOR TO CLUTCH SWITCH		CURRENT (AB/6/27/03)



ENGINE PLUG	
1.	YELLOW/GREEN
2.	BROWN/BLACK
3.	PINK
4.	BLUE
5.	GREEN
6.	WHITE
7.	GRAY
8.	RED
9.	PURPLE
10.	BLACK
11.	ORANGE
12.	PINK/BLACK
13.	BIG BLUE
14.	BIG BLACK

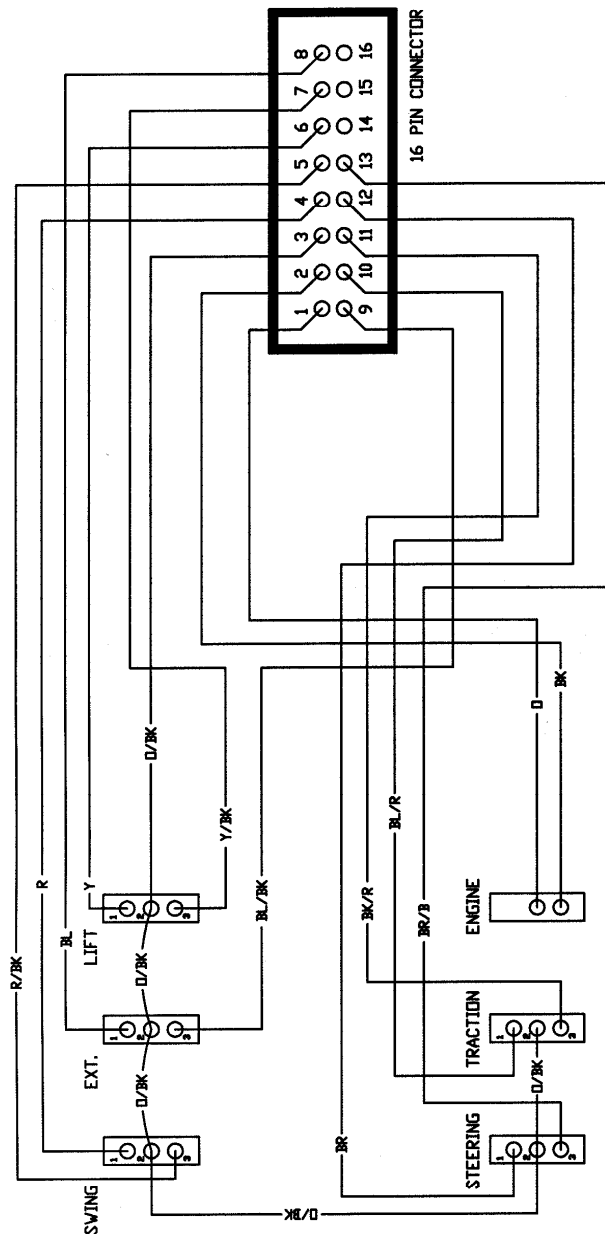
REMOTE WIRING DIAGRAM

2500D-4 DIESEL MACHINE REMOTE WIRING DIAGRAM W/16-PIN CONNECTOR & DUAL DRIVE MOTORS



REMOTE BOX WIRING DIAGRAM

**2400-4/2500-4/2700-4/2500D-4
CONTROL CORD WIRING DIAGRAM
W/16-PIN CONNECTOR**



COLOR CODES

R	= RED
Y	= YELLOW
D	= ORANGE
PR	= PURPLE
GY	= GRAY
GR	= GREEN
BL	= BLUE
BK	= BLACK
BR	= BROWN
W	= WHITE
R/BK	= RED/BLACK
D/BK	= ORANGE/BLACK
Y/BK	= YELLOW/BLACK
Y/R	= YELLOW/RED
D/R	= ORANGE/RED
BL/BK	= BLUE/BLACK
BL/R	= BLUE/RED
BR/BK	= BROWN/BLACK
BK/Y	= BLACK/YELLOW
BK/BL	= BLACK/BLUE
BK/R	= BLACK/RED

16-PIN CONNECTOR FUNCTIONS

FUNCTION	COLOR	PIN #
GROUND	ORANGE	1
EXTENSION	BLACK	2
STEERING	ORANGE/BLACK	3
SWING	RED	4
SWING (D)	RED/BLACK	5
LIFT (UP)	YELLOW	6
LIFT (DOWN)	YELLOW/BLACK	7
EXTENSION (D)	BLUE	8
EXTENSION (OUT)	BLUE/BLACK	9
TRACTION	BLACK/RED	10
TRACTION (REVERSED)	BLACK/RED	11
STEERING (RIGHT)	BROWN	12
STEERING (LEFT)	BROWN/BLACK	13

EC # 031010-4 - ADDED 2500D-4 TO DRAWING		PROFESSIONAL STUMP GRINDERS
CHECKED BY:		
2500-12A	CURRENT	(AB/10/10/03)