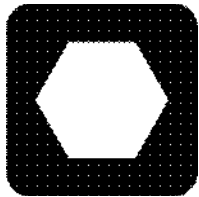


C12X/C16X/C24X/C30X

**Parts
Manual**



Ditch Witch[®]

C12X/C16X

C24X/C30X

ISSUE NO. 11PL-07/19
For Replacement Copy Order **P/N 053-2871**

This product and its use may be covered by one or more patents at
<http://patents.charlesmachine.works>

This manual contains information concerning the following models:
C12X/C16X/C24X/C30X

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FOREWORD

This manual contains illustrated parts lists to help you select quality Ditch Witch® replacement parts for your Ditch Witch equipment. Using other replacement parts will lessen the productivity of your equipment.

- Descriptions and specifications in this book were current at publication. However, the Charles Machine Works, Inc. reserves the right to improve equipment, so this manual might not reflect the most current improvements.
- Part numbers enclosed in a box or marked as “obsolete” in the remarks column are no longer available from The Charles Machine Works, Inc. Your local Ditch Witch dealer may be able to locate the part for you.
- Footnotes provide more information to help you identify parts shown in the manual.
- Assembly instructions referenced in footnotes are available through your local Ditch Witch dealer.
- Instructions on recommended equipment use and maintenance are in the Operator’s Manual that was shipped with your equipment.

Keep the following in mind when ordering Ditch Witch replacement parts:

- ◆ Specify parts you need by part number and description, not by illustration reference numbers.
- ◆ Have equipment model and serial number on hand to help ensure you get the right parts for your machine whether it’s old or new.

Thank you for buying and using Ditch Witch equipment and replacement parts.



A CHARLES MACHINE WORKS COMPANY

WARRANTY

DW WARRANTY Policy
August, 2016

POLICY 1: DITCH WITCH® EQUIPMENT AND REPLACEMENT PARTS LIMITED WARRANTY POLICY

Subject to the limitation and exclusions herein, free replacement parts will be provided at any authorized Ditch Witch dealership for any Ditch Witch equipment or parts manufactured by the Ditch Witch factory that fail due to a defect in material or workmanship within one (1) year of first commercial use. Free labor will be provided at any authorized Ditch Witch dealership for installation of parts under this warranty during the first year following "initial commercial" use of the serial numbered Ditch Witch equipment on which it is installed. The customer is responsible for transporting their equipment to an authorized Ditch Witch dealership for all warranty work.

EXCLUSIONS FROM PRODUCT WARRANTY

- All incidental or consequential damages.
- All defects, damages, or injuries caused by misuse, abuse, improper installation, alteration, neglect, or uses other than those for which products were intended.
- All defects, damages, or injuries caused by improper training, operation, or servicing of products in a manner inconsistent with manufacturer's recommendations.
- All engines and engine accessories (these are covered by original manufacturer's warranty).
- Tires, belts, and other parts which are subject to another manufacturer's warranty. (Such warranty will be available to purchaser.)
- ALL IMPLIED WARRANTIES NOT EXPRESSLY STATED HEREIN, INCLUDING ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY.

IF THE PRODUCTS ARE PURCHASED FOR COMMERCIAL PURPOSES, AS DEFINED BY THE UNIFORM COMMERCIAL CODE, THEN THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF AND THERE ARE NO IMPLIED WARRANTIES OF ANY KIND WHICH EXTEND TO A COMMERCIAL BUYER. ALL OTHER PROVISIONS OF THIS LIMITED WARRANTY APPLY INCLUDING THE DUTIES IMPOSED.

Ditch Witch products have been tested to deliver acceptable performance in most conditions. This does not imply they will deliver acceptable performance in all conditions. Therefore, to assure suitability, products should be operated under anticipated working conditions prior to purchase.

Defects will be determined by an inspection within thirty (30) days of the date of failure of the product or part by Ditch Witch Product Support (DWPS) or its authorized dealer. DWPS will provide the location of its inspection facilities or it's nearest authorized dealer upon inquiry. DWPS reserves the right to supply remanufactured replacement parts under this warranty as it deems appropriate.

Extended warranties are available upon request from your local Ditch Witch dealer or the Ditch Witch factory.

Some states do not allow exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply. Further, some states do not allow exclusion of or limitation of how long an implied warranty lasts, so the above limitation may not apply. This limited warranty gives product owner specific legal rights and the product owner may also have other rights which vary from state to state.

For information regarding this limited warranty, contact the DWPS, P.O. Box 66, Perry, OK 73077-0066, or contact your local dealer.

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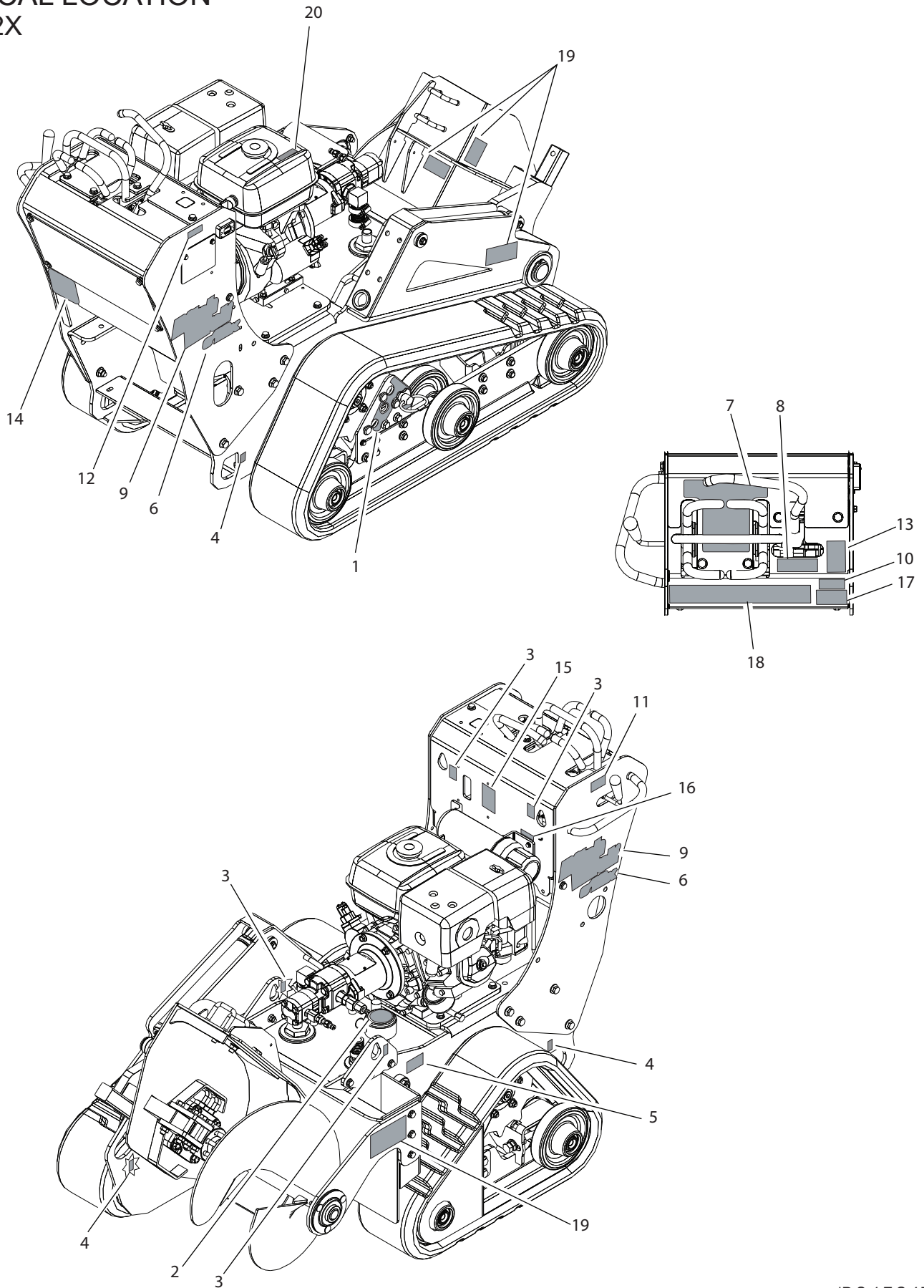
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DECALS

DECAL LOCATION C12X

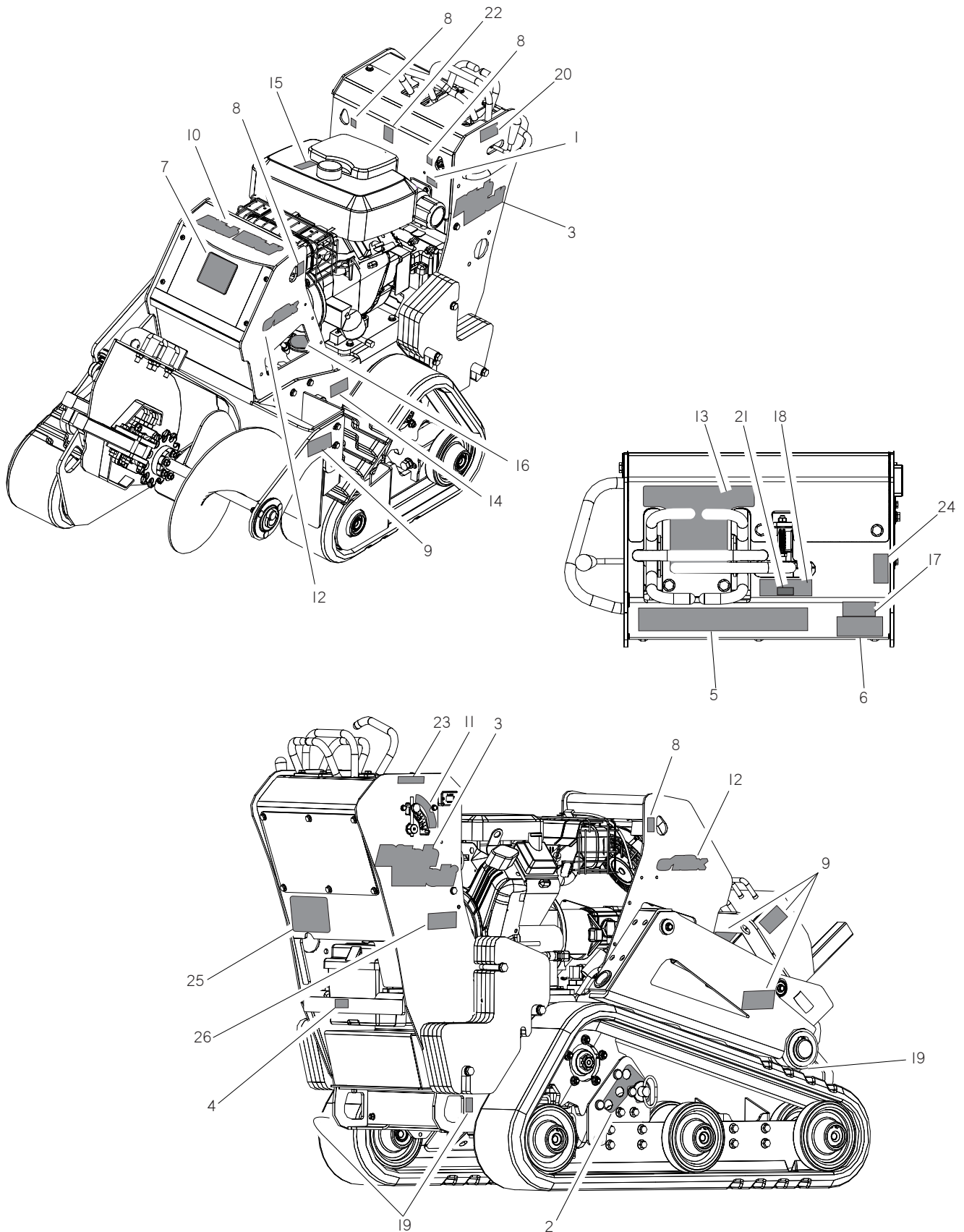


DECAL LOCATION C12X

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	270-7688		C12X SERVICE DECAL KIT	
1	270-6899	1	PARKING BRAKE	
2	700-063	1	HYDRAULIC OIL CAP	
3	274-442	4	LIFT LOCATION	
4	274-318	3	TIE DOWN LOCATION	
5	270-1023	1	NOTICE HYDRAULIC OIL LEVEL	
6	270-7678	2	C12X MODEL ID	
7	270-6828	1	CONTROL PANEL	
8	270-6829	1	DIGGING CHAIN FORWARD/REVERSE	
9	270-6827	2	STACKED GRAY LOGOTYPE	
10	700-133	1	WARNING ONE CALL	
11	270-6893	1	DIGGING BOOM RAISE AND LOWER	
12	270-6773	1	PATENT DECAL	
13	700-009	1	CAUTION WEAR HEARING PROTECTION	
14	270-7712	1	C12X LUBE CHART	
15	275-419	1	WARNING NO FLAME	
16	270-6406	1	OPERATOR MANUAL REPLACEMENT	
17	273-475	1	WARNING READ OPERATOR MANUAL	
18	270-6705	1	OPERATOR INSTRUCTIONS (ROPE START)	
19	270-6900	4	DANGER CHAIN AND AUGER	
20	275-173	1	UNLEADED GASOLINE ONLY	

FOOTNOTES
1. NOT PART OF KIT

DECAL LOCATION C16X PEDESTRIAN UNIT



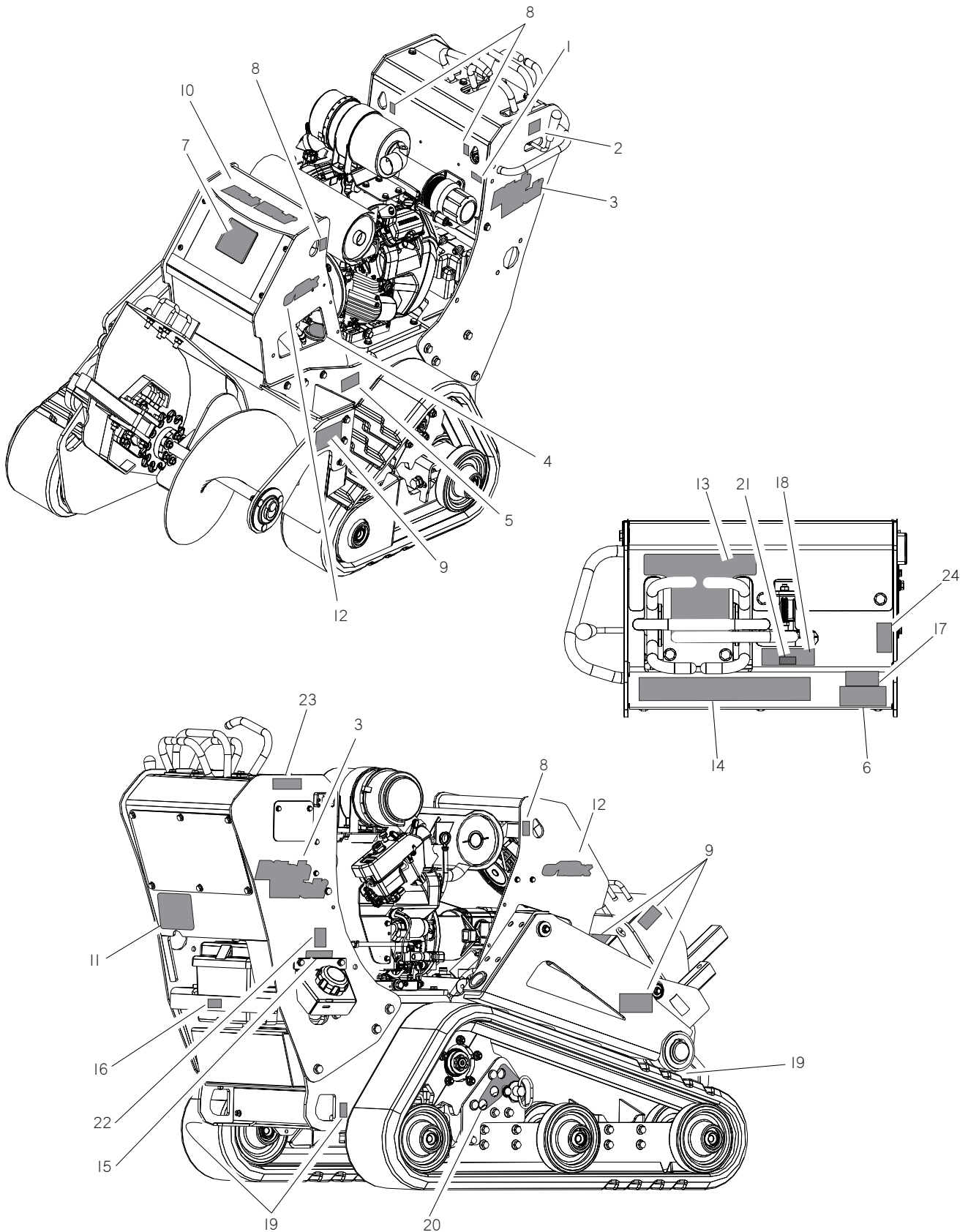
DECAL LOCATION C16X PEDESTRIAN UNIT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	270-6932		C16X SERVICE DECAL KIT	
1	270-6406	1	OPERATOR MANUAL REPLACEMENT	
2	270-6899	1	PARKING BRAKE	
3	270-6827	2	STACKED LOGOTYPE	
4	270-5127	1	BATTERY	
5	270-6704	1	OPERATOR INSTRUCTIONS	
6	273-475	1	WARNING READ MANUAL	
7	270-6738	1	LOGO	
8	274-442	4	LIFT LOCATION	
9	270-6900	4	DANGER CHAIN AND AUGER	
10	270-6894	1	LOGOTYPE	
11	270-7807	1	TRENCHER FLOW CONTROL VALVE	SEE FOOTNOTE 2.
12	270-6844	2	C16X MODEL ID	
13	270-6828	1	CONTROL PANEL	
14	270-1023	1	NOTICE HYDRAULIC OIL LEVEL	
15	275-173	1	FUEL TANK GASOLINE	
16	700-063	1	HYDRAULIC OIL CAP	
17	700-133	1	WARNING ONE CALL	
18	270-6829	1	DIGGING CHAIN FORWARD/REVERSE	
19	274-318	3	TIE DOWN	
20	270-6893	1	TRENCHER RAISE/LOWER	
21	270-4549	1	ROTO WITCH	SEE FOOTNOTE 1.
22	275-419	1	WARNING NO FLAME	
23	270-6773	1	PATENT DECAL	
24	700-009	1	CAUTION WEAR HEARING PROTECTION	
25	270-7088	1	C16X SERVICE / LUBE CHART	
26	274-208	1	NOTICE FUEL SHUTOFF	

FOOTNOTES

1. NOT PART OF KIT. USE ONLY WITH ROTO WITCH OPTION.
2. NOT PART OF KIT. USE ONLY WITH VARIABLE FLOW OPTION.

DECAL LOCATION C24X PEDESTRIAN UNIT



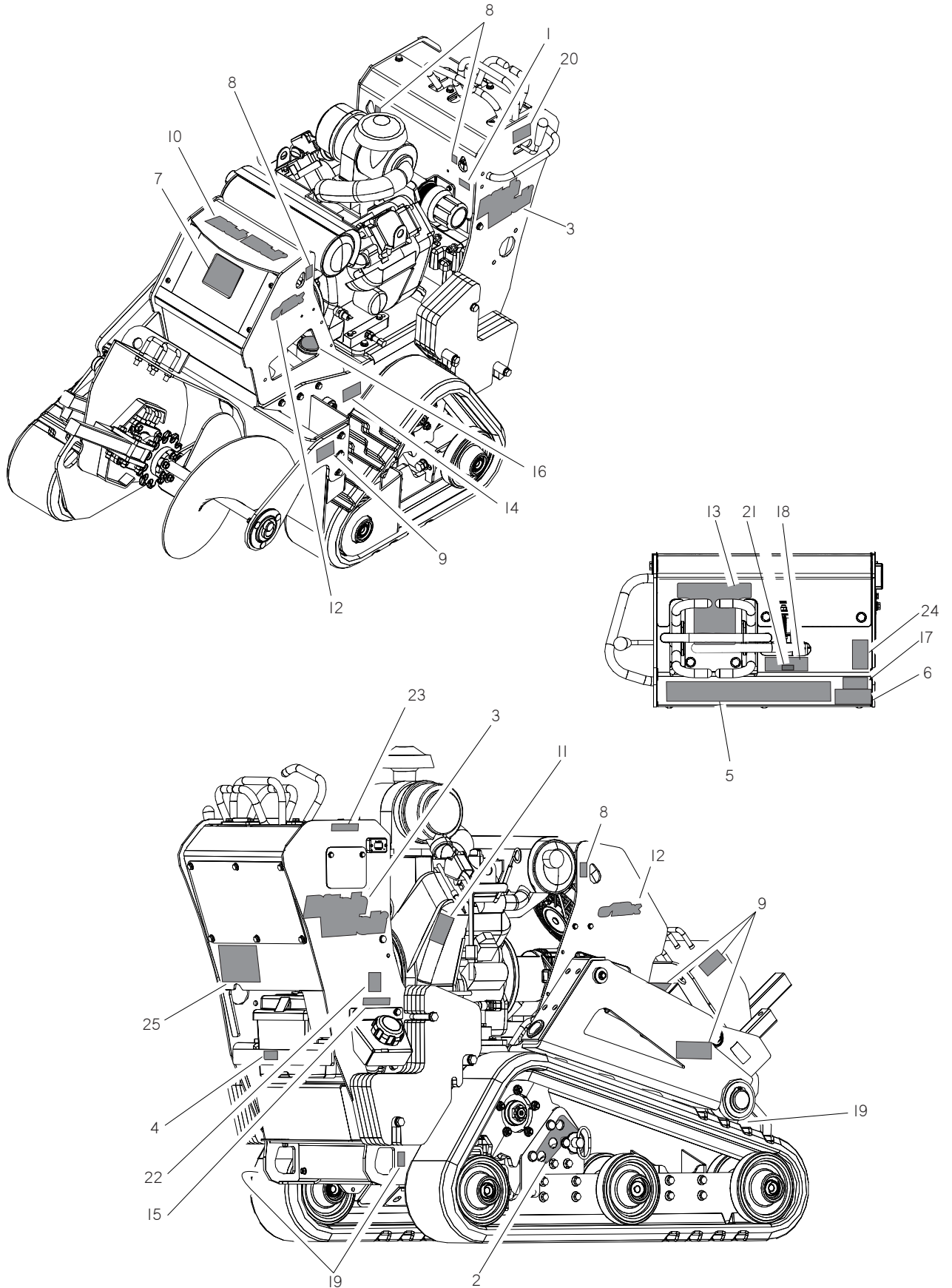
DECAL LOCATION C24X PEDESTRIAN UNIT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	270-6937		C24X SERVICE DECAL KIT	
1	270-6406	1	OPERATOR MANUAL REPLACEMENT	
2	270-6893	1	TRENCHER RAISE/LOWER	
3	270-6827	2	STACKED LOGOTYPE	
4	700-063	1	HYDRAULIC OIL CAP	
5	270-1023	1	NOTICE HYDRAULIC OIL LEVEL	
6	273-475	1	WARNING READ MANUAL	
7	270-6738	1	LOGO	
8	274-442	4	LIFT LOCATION	
9	270-6900	4	DANGER CHAIN AND AUGER	
10	270-6894	1	LOGOTYPE	
11	270-7096	1	C24X SERVICE/LUBE CHART	
12	270-6845	2	C24X MODEL ID	
13	270-6828	1	CONTROL PANEL	
14	270-6704	1	OPERATOR INSTRUCTIONS	
15	275-173	1	FUEL TANK GASOLINE	
16	270-5127	1	BATTERY	
17	700-133	1	WARNING ONE CALL	
18	270-6829	1	DIGGING CHAIN FORWARD/REVERSE	
19	274-318	3	TIE DOWN	
20	270-6899	1	PARKING BRAKE	
21	270-4549	1	ROTO WITCH	SEE FOOTNOTE I
22	275-419	1	WARNING NO FLAME	
23	270-6773	1	PATENT DECAL	
24	700-009	1	CAUTION WEAR HEARING PROTECTION	

FOOTNOTES

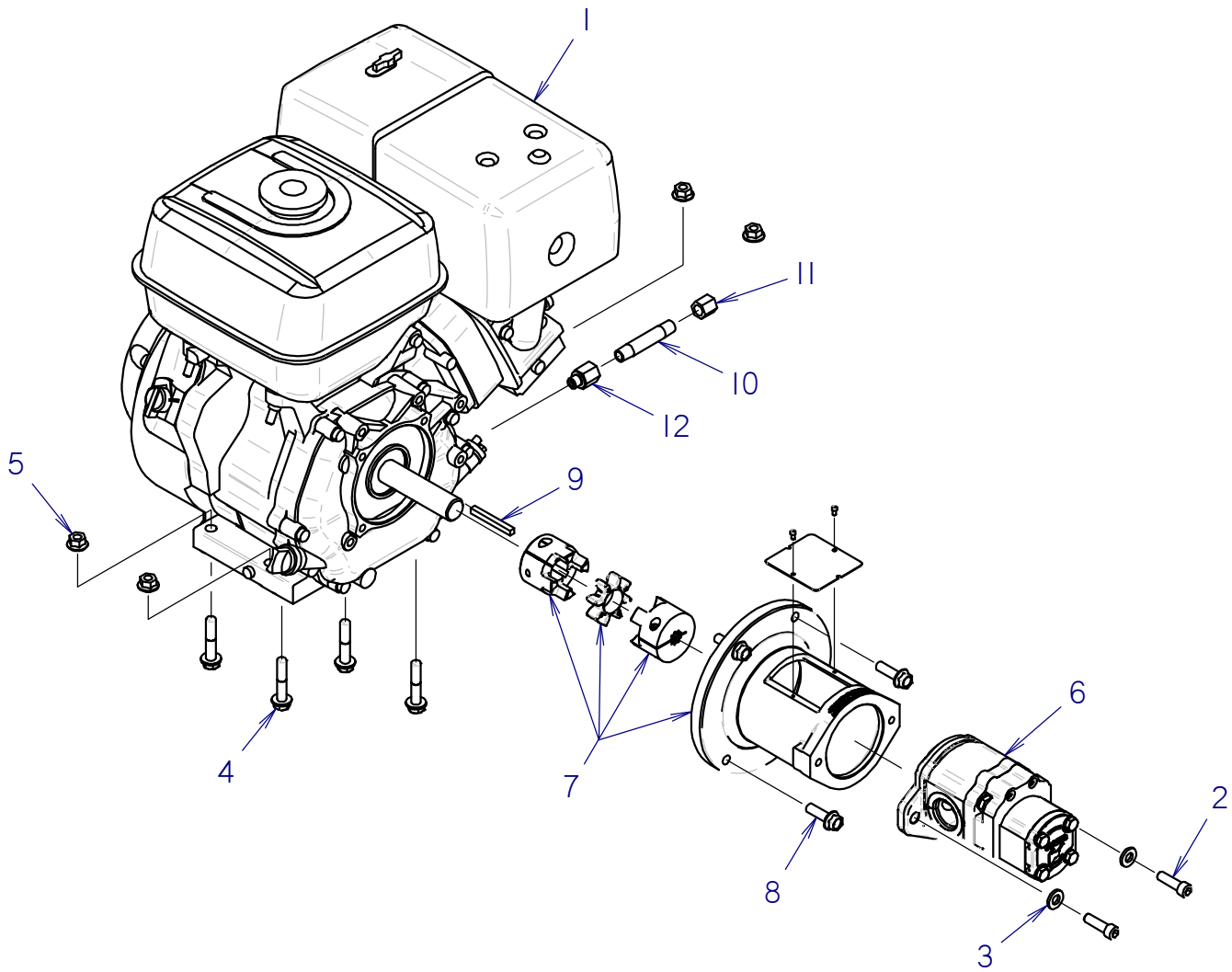
I. NOT PART OF KIT. USE ONLY WITH ROTO WITCH OPTION.

DECAL LOCATION C30X PEDESTRIAN UNIT



ENGINE COMPONENTS

ENGINE C12X



ENGINE C12X

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-1608	1	ENGINE (HONDA GX390 11.7 HP, RPI)	5W30 1.2 QT
2	105-757	2	BOLT (3/8-NC X 1-1/4", S0C, GD8, ZPI)	USE LOCTITE 242 OR EQUIVALENT. TORQUE TO 44 FT-LB.
3	106-396	2	WASHER (M10, HARDENED)	
4	105-1980	4	FLG SCREW (M10-1.50 X 50MM) 10.9 ZP	
5	107-661	4	FLG LKNUT (M10-1.50, PRV TRQ)	
6	150-4152	1	DOUBLE GEAR PUMP (6.6 CC/1.6 CC)	
7	160-1297	1	PUMP MOUNT KIT - 1.00	SEE FOOTNOTE 1
8	105-677	3	FLG BOLT (3/8-NC X 1-1/4")	
9	165-985	1	KEY (1/4" X 2-1/4")	
10	150-4591	1	NIPPLE (04N-3" 304SS)	USE LOCTITE PIPE SEALANT
11	115-241	1	CAP (04NF)	
12	514-442	1	CONNECTOR (M12-1.50-04NF)	

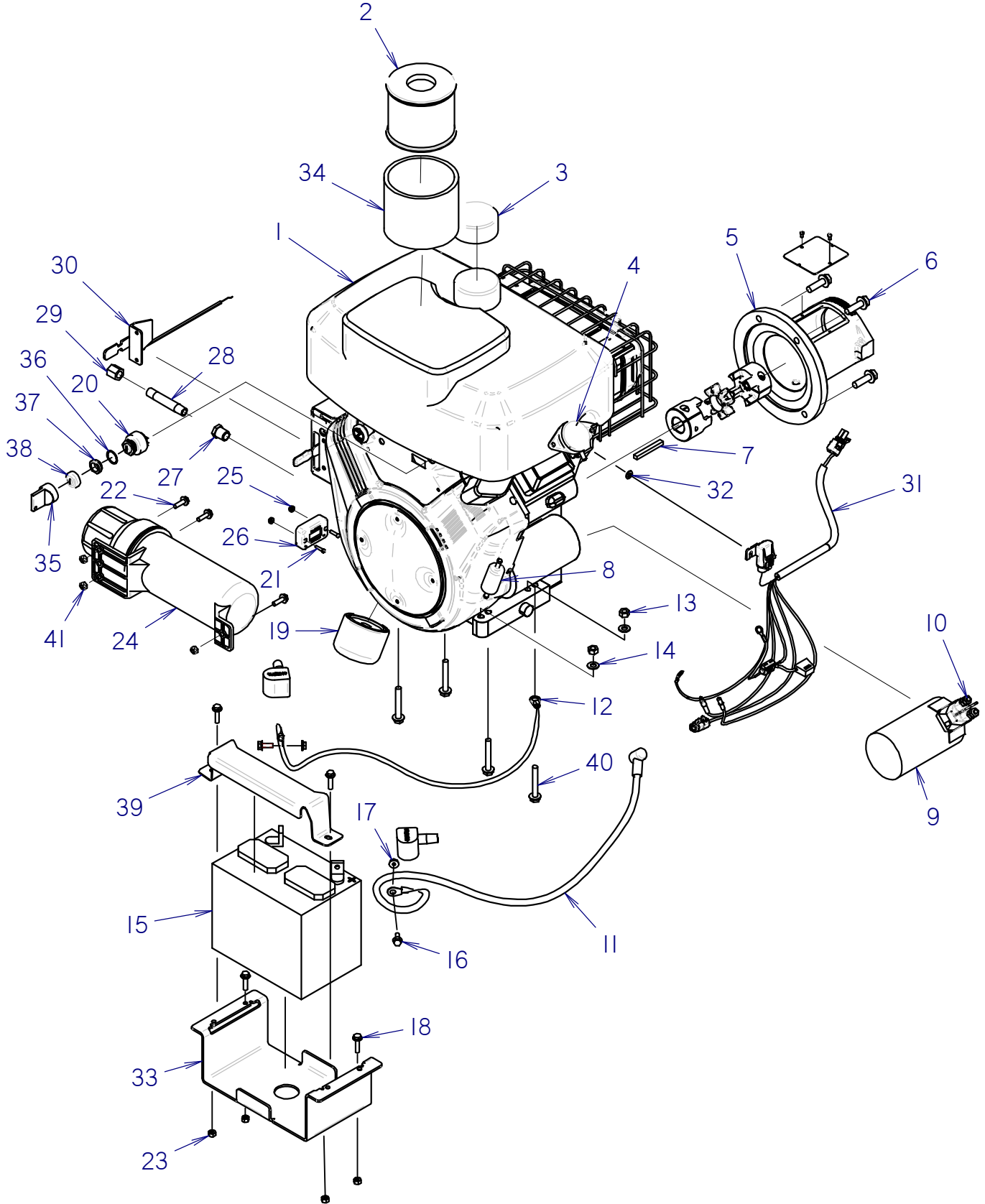
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FOOTNOTES:

1. 160-1297 PUMP MOUNT KIT - 1.00 COMPONENTS. 160-1193 FLANGED COUPLER (1.000"), 160-1194 FLANGED COUPLER (9T .625) AND 160-1195 SPIDER INSERT. TORQUE COUPLING TO 19 FT-LB. USE LOCTITE 242.

NOTE:

ENGINE/ ELECTRICAL
C16X
BEGINS WITH S/N: DWPC16XATH0000978



ENGINE/ ELECTRICAL

C16X

BEGINS WITH S/N: DWPC16XATH0000978

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-2403	1	ENGINE - 16 HP B & S VANGUARD W/TANK	USE 5W30 1.4QT (470Z)
2	195-1794	1	FILTER ELEMENT	
3	500-2807	1	FUEL CAP - 16 VANGUARD	
4	195-1481	1	FUEL PUMP	
5	160-1297	1	PUMP MOUNT KIT - 1.00	SEE FOOTNOTE 1
6	105-677	4	FLG BOLT (3/8-NC X 1-1/4")	
7	165-985	1	KEY (1/4" X 2-1/4")	
8	195-1480	1	FUEL FILTER	
9	500-2809	1	STARTER	
10	500-2808	1	SOLENOID - STARTER	
11	215-0060	1	BATTERY CABLE (6GA X 36", RED)	
12	215-0042	1	BATTERY CABLE (6GA X 33", BLK)	
13	106-561	4	LOCKNUT (M8-1.25,PRV TRQ,10.9)	
14	105-226	4	WASHER (5/16")	
15	215-256	1	BATTERY (12V, 200 AMP)	
16	106-712	2	FLG SCREW (M6-1.00 X 16MM)	
17	106-385	2	FLG LOCKNUT (M6-1.00)	
18	106-848	4	FLG SCREW (M6-1.00 X 25MM)	
19	500-2093	1	OIL FILTER	
20	195-1482	1	KEY SWITCH	
21	105-1876	2	SCREW (#6-32 X 5/8", SOC ZP)	
22	105-797	3	SCREW (M6-1.00 X 20MM, BX)	
23	106-538	4	LOCKNUT (M6-1.00,PRV TRQ,10.9)	
24	302-2531	1	MANUAL COMPARTMENT - VENTED	
25	107-859	2	NUT, LOCK, #6-32, NYLON INSERT	
26	215-1863	1	TACHOMETER/HOURMETER	
27	115-106	1	REDUCER (O6N-04NF)	
28	150-4591	1	NIPPLE (O4N-3" 304SS)	USE LOCTITE PIPE SEALANT
29	115-241	1	CAP (O4NF)	USE LOCTITE PIPE SEALANT
30	500-2812	1	THROTTLE CABLE	
31	215-0071	1	FAN HARNESS	
32	106-394	1	WASHER (M6, HARDENED)	
33	302-3982	1	BATTERY TRAY	
34	195-1479	1	PRE-CLEANER	
35	195-2478	1	KEY	
36	195-2477	1	LOCK WASHER	
37	195-2476	1	NUT - SWITCH	
38	195-2475	1	COVER - SWITCH	
39	302-3983	1	BATTERY HOLD DOWN	
40	105-665	4	FLG SCREW (M8-1.25 X 55MM)	
41	106-237	3	LOCKNUT (M6-1.00,PRV TRQ,NLKI)	

NOT SHOWN:

195-2631 STATOR
 195-2645 REGULATOR
 500-3267 OIL DIPSTICK

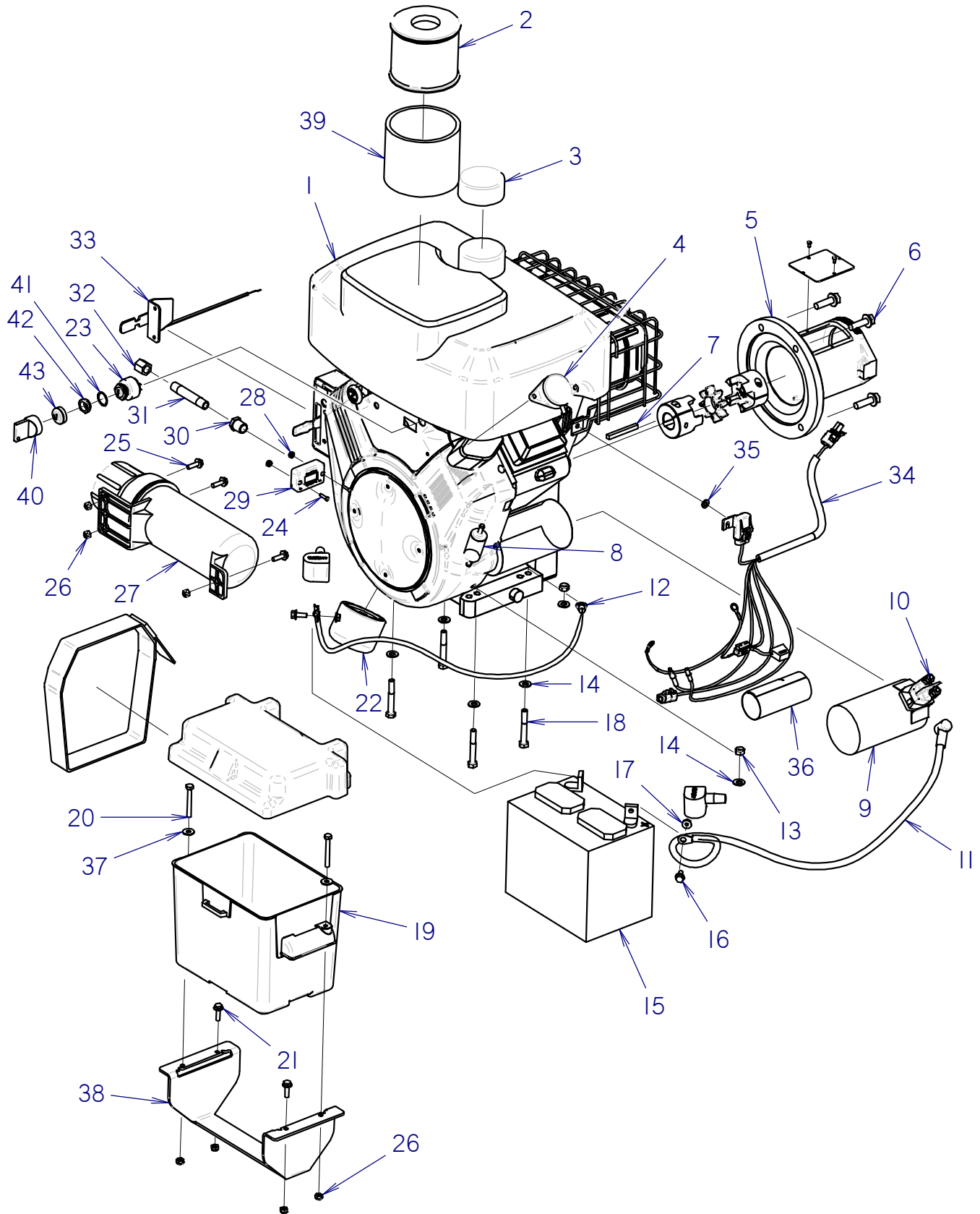
FOOTNOTES:

1. 160-1297 PUMP MOUNT KIT - 1.00 COMPONENTS: 160-1193 FLANGED COUPLER (1.000"), 160-1194 FLANGED COUPLER (9T .625), AND 160-1195 SPIDER INSERT. TORQUE COUPLING BOLT 19 FT-LB. USE LOCTITE 242.

NOTE:

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ENGINE/ ELECTRICAL
C16X
 ENDS WITH S/N: DWPC16XACH0000977



ENGINE/ ELECTRICAL

C16X

ENDS WITH S/N: DWPC16XACH0000977

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-2403	1	ENGINE - 16 HP B & S VANGUARD W/TANK	USE 5W30 1.4QT (470Z)
2	195-1794	1	FILTER ELEMENT	
3	500-2807	1	FUEL CAP - 16 VANGUARD	
4*	195-1481	1	FUEL PUMP	
5	160-1297	1	PUMP MOUNT KIT - 1.00	SEE FOOTNOTE 1
6	105-677	4	FLG BOLT (3/8-NC X 1-1/4")	
7	165-985	1	KEY (1/4" X 2-1/4")	
8	195-1480	1	FUEL FILTER	
9	500-2809	1	STARTER	
10	500-2808	1	SOLENOID - STARTER	
11	215-0060	1	BATTERY CABLE (6GA X 36", RED)	
12	215-0042	1	BATTERY CABLE (6GA X 33", BLK)	
13	105-089	4	LOCKNUT (5/16-NC)	
14	105-226	6	WASHER (5/16")	
15	215-256	1	BATTERY (12V, 200 AMP)	
16	106-712	2	FLG SCREW (M6-1.00 X 16MM)	
17	106-385	2	FLG LOCKNUT (M6-1.00)	
18	105-130	4	BOLT (5/16-NC X 2-1/4")	
19	362-1869	1	PLASTIC BATTERY BOX	
20	107-025	2	SCREW (M6-1.00 X 50MM)	
21	106-161	2	FLG SCREW (M6-1.00 X 20MM)	
22	500-2093	1	OIL FILTER	
23	195-1482	1	KEY SWITCH	
24	105-1876	2	SCREW (#6-32 X 5/8", SOC ZP)	
25	105-797	3	SCREW (M6-1.00 X 20MM, BX)	
26	106-237	7	LOCKNUT (M6-1.00, PRV TRQ, NLK)	
27	302-2531	1	MANUAL COMPARTMENT - VENTED	
28	107-859	2	NUT, LOCK, #6-32, NYLON INSERT	
29	215-1863	1	TACHOMETER/HOURMETER	
30	115-106	1	REDUCER (06N-04NF)	
31	150-4591	1	NIPPLE (04N-3" 304SS)	USE LOCTITE PIPE SEALANT
32	115-241	1	CAP (04NF)	USE LOCTITE PIPE SEALANT
33	500-2812	1	THROTTLE CABLE	
34	215-0071	1	FAN HARNESS	
35	106-394	1	WASHER (M6, HARDENED)	
36	117-1066	1	ABRASION SLEEVE (1.75" DIA X 4.0")	
37	107-801	2	WASHER (M6)	
38	302-2875	1	BRACKET - BATTERY SUPPORT	
39	195-1479	1	PRE-CLEANER	
40	195-2478	1	KEY	
41	195-2477	1	LOCK WASHER	
42	195-2476	1	NUT - SWITCH	
43	195-2475	1	COVER - SWITCH	

NOT SHOWN:

195-2631 STATOR
 195-2645 REGULATOR
 500-3267 OIL DIPSTICK

FOOTNOTES:

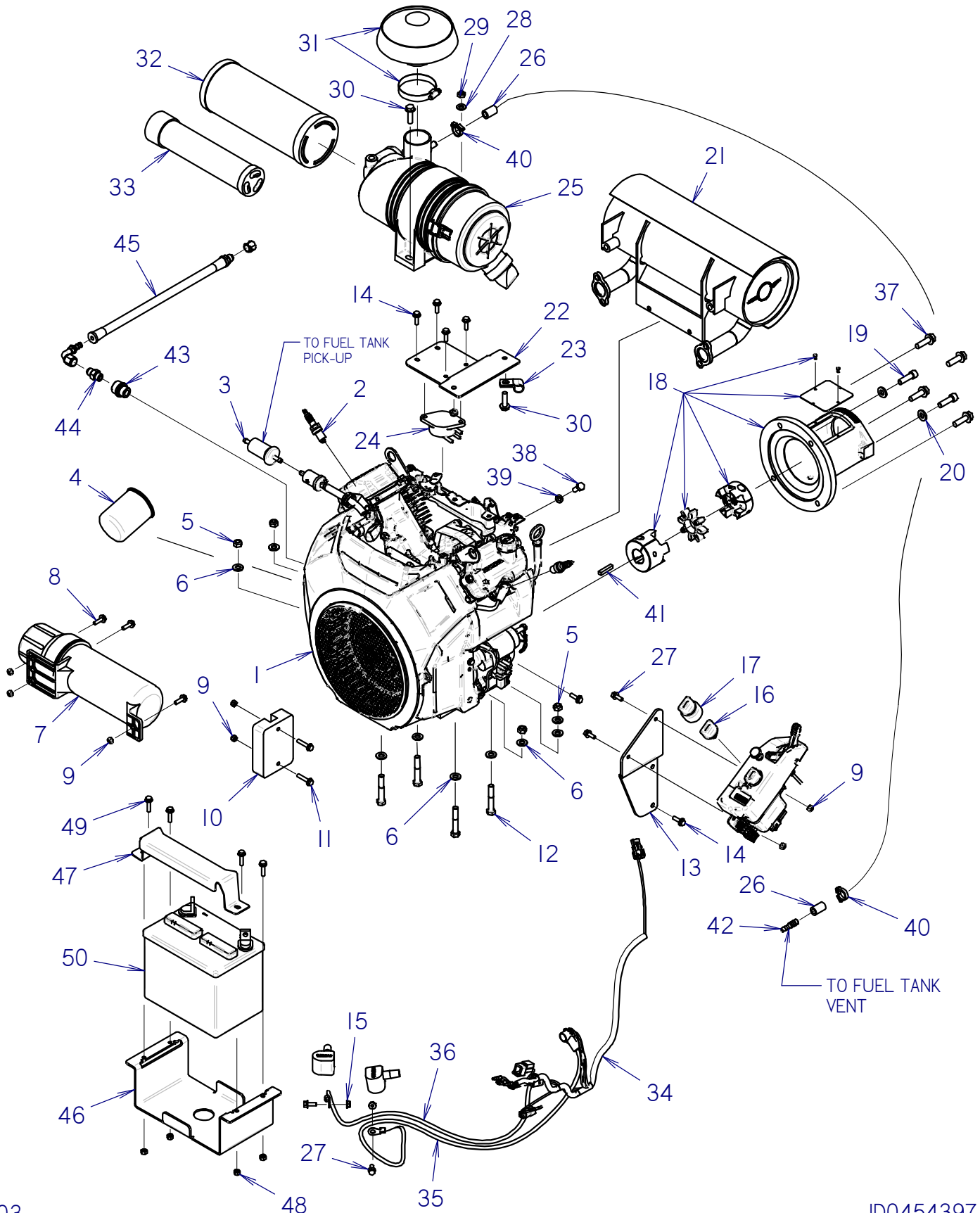
1. 160-1297 PUMP MOUNT KIT - 1.00 COMPONENTS: 160-1193 FLANGED COUPLER (1.000"), 160-1194 FLANGED COUPLER (9T .625), AND 160-1195 SPIDER INSERT. TORQUE COUPLING BOLT 19 FT-LB. USE LOCTITE 242.

NOTE:

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ENGINE ELECTRICAL

C24X
BEGINS WITH S/N: DWPC24XAAH0000750



ENGINE ELECTRICAL

C24X

BEGINS WITH S/N: DWPC24XAAH0000750

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-2200	1	HONDA ENGINE (GX690) W/O AIR	5W30 (1.8QT), USE REPLACEMENT THROTTLE CABLE 500-3269.
2	195-1546	2	SPARK PLUG (HONDA GX690)	
3	195-1536	1	FUEL FILTER (HONDA GX690)	
4	195-1533	1	OIL FILTER (HONDA GX690)	
5	105-047	4	LOCKNUT (3/8-NC)	
6	106-390	9	WASHER (M10)	
7	302-2531	1	MANUAL COMPARTMENT - VENTED	
8	105-797	3	SCREW (M6-1.00 X 20MM, BX)	
9	106-237	7	LOCKNUT (M6-1.00,PRV TRQ,NLKI)	
10	215-1328	1	RECTIFIER ASSY. REGULATOR	
11	107-366	2	SCREW (M6-1.00 X 30MM, 8.8)	
12	105-162	4	BOLT (3/8-NC X 2-1/4")	
13	301-9878	1	CONTROL MOUNT	
14	106-379	6	FLG LK SCREW (M6-1.00 X 20MM)	
15	106-385	2	FLG LOCKNUT (M6-1.00)	
16	195-1581	1	IGNITION KEY (HONDA GX690) RT12	
17	215-2282	1	SWITCH ASSEMBLY	
18	160-1298	1	PUMP MOUNT KIT - 1.125	SEE FOOTNOTE 1
19	105-757	2	BOLT (3/8-NC X 1-1/4", SOC, GD8, ZPI)	USE LOCTITE 242 OR EQUIVALENT
20	106-396	2	WASHER (M10, HARDENED)	
21	195-1530	1	MUFFLER	
22	301-9876	1	AIR FILTER MOUNT	
23	105-2185	1	P-CLAMP (625)	
24	195-1583	1	FUEL PUMP (HONDA GX690)	
25	195-2345	1	AIR FILTER (DONALDSON W/PORT)	
26	105-1519	16	BULK HOSE (3/8") LOW PERM	
27	106-712	4	FLG SCREW (M6-1.00 X 16MM)	
28	105-226	1	WASHER (5/16")	
29	107-096	2	LOCKNUT (M8-1.25, NLK)	
30	106-163	2	FLG SCREW (M8-1.25 X 30MM)	
31	111-119	1	STACK CAP	
32	194-038	1	FILTER ELEMENT, PRIMARY	
33	194-039	1	FILTER ELEMENT - SECONDARY	
34	215-0072	1	FAN HARNESS	
35	215-0060	1	BATTERY CABLE (6GA X 36", RED)	
36	215-0042	1	BATTERY CABLE (6GA X 33", BLK)	
37	105-677	4	FLG BOLT (3/8-NC X 1-1/4")	
38	106-083	1	SCREW (M8-1.25 X 20MM)	
39	105-091	1	LOCK WASHER (5/16")	
40	362-2613	2	CLAMP - SQUEEZE (569-.650)	
41	166-825	1	KEY (1/4" X 1-1/4")	
42	150-5195	1	S/O COUPLER (04H-06H)	
43	150-4906	1	CONNECTOR (M20S-06SF)	
44	154-076	1	CONNECTOR (06J-06S)	
45	150-5021	1	DRAIN HOSE (06JM-06JFX90S-16"-400)	
46	302-3982	1	BATTERY TRAY	
47	302-3983	1	BATTERY HOLD DOWN	
48	106-538	4	LOCKNUT (M6-1.00,PRV TRQ,10.9)	
49	106-848	4	FLG SCREW (M6-1.00 X 25MM)	
50	215-256	1	BATTERY (12V, 200 AMP)	

NOTE:

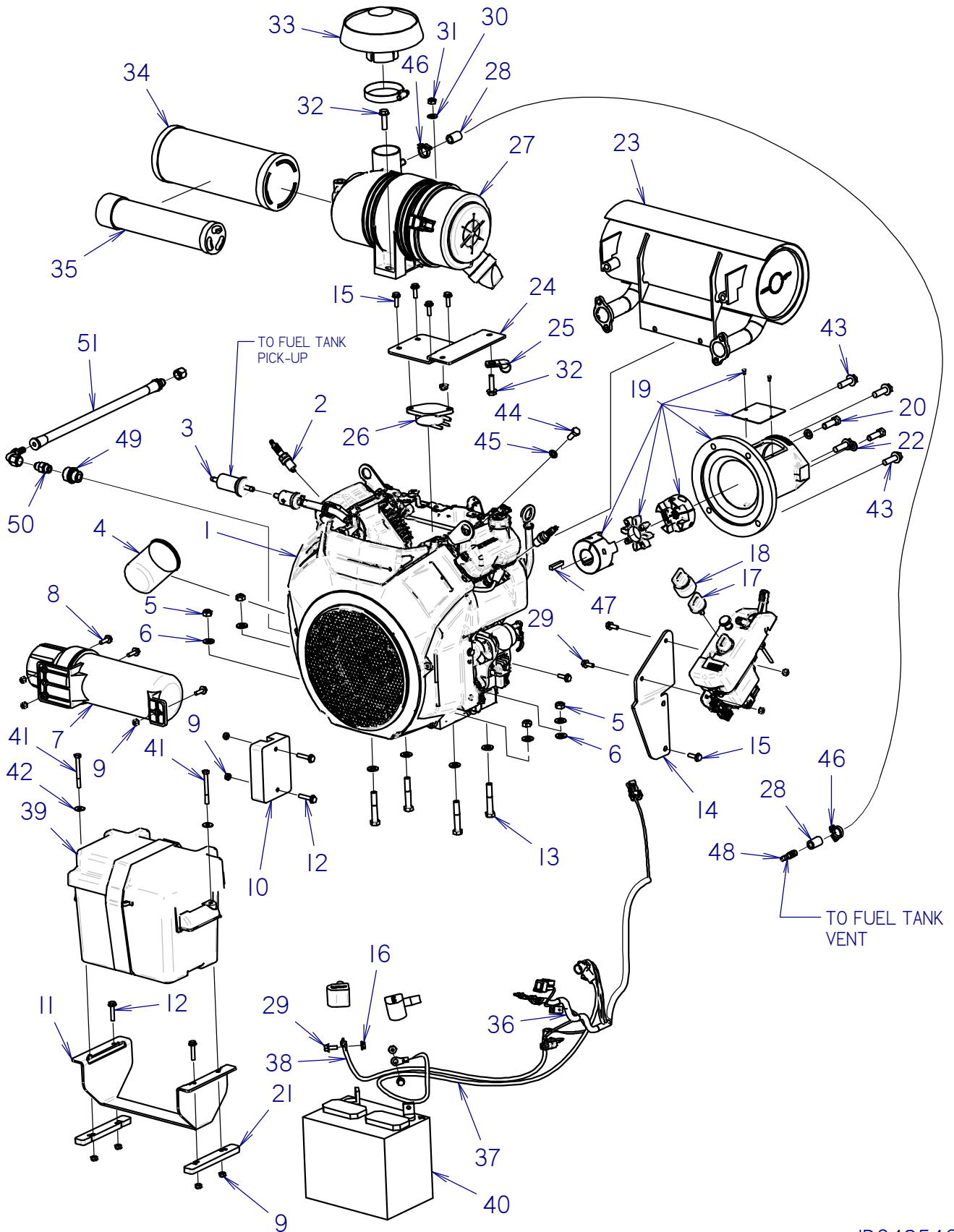
195-1582 STARTER (HONDA GX690)
THIS PARTS PAGE SUPERSEDES OLD #ID0425468

FOOTNOTES:

1. PUMP MOUNT KIT 160-1298 COMPONENTS: 160-1217 FLANGED COUPLER (1.25"), 160-1218 FLANGED COUPLER (9T-.625") AND 160-1219 SPIDER INSERT GREEN. TORQUE COUPLING BOLT TO 35 FT-LB. USE LOCTITE 242.

ENGINE ELECTRICAL

C24X
ENDS WIT S/N: DWPC24XAHH0000749



ENGINE ELECTRICAL

C24X

ENDS WIT S/N: DWPC24XAHH0000749

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-2200	1	HONDA ENGINE (GX690) W/O AIR	5W30 (1.8QT), USE REPLACEMENT THROTTLE CABLE 500-3269.
2	195-1546	2	SPARK PLUG (HONDA GX690)	
3	195-1536	1	FUEL FILTER (HONDA GX690)	
4	195-1533	1	OIL FILTER (HONDA GX690)	
5	105-047	4	LOCKNUT (3/8-NC)	
6	106-390	9	WASHER (M10)	
7	302-2531	1	MANUAL COMPARTMENT - VENTED	
8	105-797	3	SCREW (M6-1.00 X 20MM, BX)	
9	106-237	11	LOCKNUT (M6-1.00,PRV TRQ,NLKI)	
10	215-1328	1	RECTIFIER ASSY. REGULATOR	
11	302-2875	1	BRACKET - BATTERY SUPPORT	
12	107-366	4	SCREW (M6-1.00 X 30MM, 8.8)	
13	105-162	4	BOLT (3/8-NC X 2-1/4")	
14	301-9878	1	CONTROL MOUNT	
15	106-379	6	FLG LK SCREW (M6-1.00 X 20MM)	
16	106-385	2	FLG LOCKNUT (M6-1.00)	
17	195-1581	1	IGNITION KEY (HONDA GX690) RT12	
18	215-2282	1	SWITCH ASSEMBLY	
19	160-1298	1	PUMP MOUNT KIT - 1.125	SEE FOOTNOTE 1
20	105-052	2	BOLT (3/8-NC X 1-1/4")	USE LOCTITE 242 OR EQUIVALENT
21	302-0734	2	SPACER- BATTERY BOX	
22	105-072	2	LOCK WASHER (3/8")	
23	195-1530	1	MUFFLER	
24	301-9876	1	AIR FILTER MOUNT	
25	105-2185	1	P-CLAMP (.625)	
26	195-1583	1	FUEL PUMP (HONDA GX690)	
27	195-2345	1	AIR FILTER (DONALDSON W/PORT)	
28	105-1519	16	BULK HOSE (3/8") LOW PERM	
29	106-712	4	FLG SCREW (M6-1.00 X 16MM)	
30	105-226	1	WASHER (5/16")	
31	107-096	2	LOCKNUT (M8-1.25, NLK)	
32	106-163	2	FLG SCREW (M8-1.25 X 30MM)	
33	111-119	1	STACK CAP	
34	194-038	1	FILTER ELEMENT, PRIMARY	
35	194-039	1	FILTER ELEMENT - SECONDARY	
36	215-0072	1	FAN HARNESS	
37	215-0060	1	BATTERY CABLE (6GA X 36", RED)	
38	215-0042	1	BATTERY CABLE (6GA X 33", BLK)	
39	362-1869	1	PLASTIC BATTERY BOX	
40	215-256	1	BATTERY (12V, 200 AMP)	
41	106-595	2	SCREW (M6-1.00 X 60MM)	
42	107-801	2	WASHER (M6)	
43	105-677	4	FLG BOLT (3/8-NC X 1-1/4")	
44	106-083	1	SCREW (M8-1.25 X 20MM)	
45	105-091	1	LOCK WASHER (5/16")	
46	362-2613	2	CLAMP - SQUEEZE (.569-.650)	
47	166-825	1	KEY (1/4" X 1-1/4")	
48	150-5195	1	S/O COUPLER (O4H-O6H)	
49	150-4906	1	CONNECTOR (M20S-O6SF)	
50	154-076	1	CONNECTOR (O6J-O6S)	
51	150-5021	1	DRAIN HOSE (O6JM-O6JFX90S-16"-400)	

NOTE:

195-1582 STARTER (HONDA GX690)
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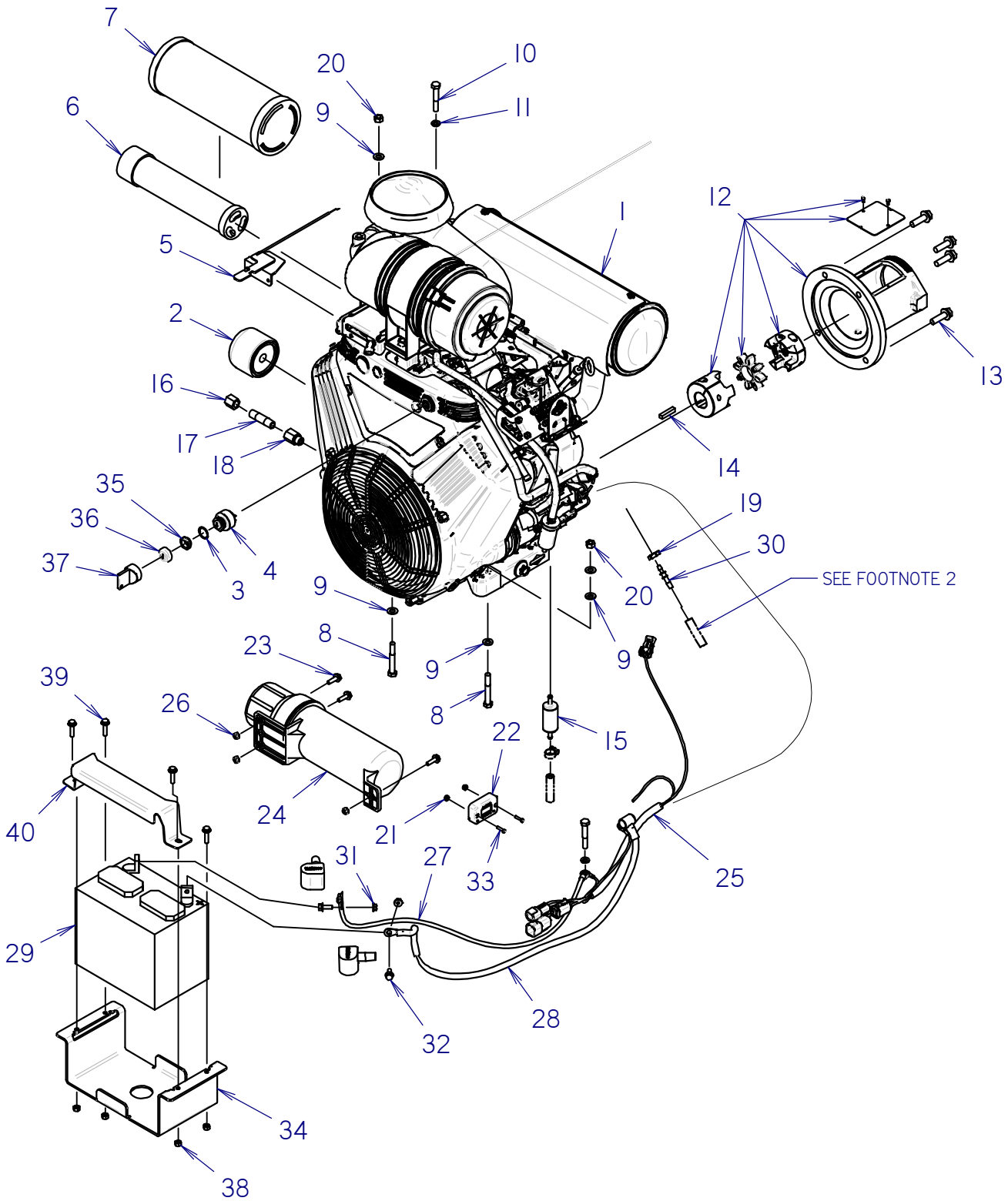
FOOTNOTES:

1. PUMP MOUNT KIT 160-1298 COMPONENTS: 160-1217 FLANGED COUPLER (1.25"), 160-1218 FLANGED COUPLER (9T-.625") AND 160-1219 SPIDER INSERT GREEN. TORQUE COUPLING BOLT TO 35 FT-LB. USE LOCTITE 242.

ENGINE ELECTRICAL

C30X/VP30

BEGINS WITH S/N: DWPC30XALH0000254 / DWPVP30XLH0000008



ENGINE ELECTRICAL**C30X/VP30****BEGINS WITH S/N: DWPC30XALH0000254 / DWPVP30XLH0000008**

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-2172	1	ENGINE - VANGUARD 31HP	5W30 2.4QT (79 OZ)
2	500-2093	1	OIL FILTER	
3	195-2477	1	LOCK WASHER	
4	195-1482	1	KEY SWITCH	
5	500-2812	1	THROTTLE CABLE	
6	194-039	1	FILTER ELEMENT - SECONDARY	
7	194-038	1	FILTER ELEMENT, PRIMARY	
8	106-570	2	SCREW (M8-1.25 X 60MM)	
9	105-226	5	WASHER (5/16")	
10	106-329	2	SCREW (M8-1.25 X 50MM)	
11	105-091	2	LOCK WASHER (5/16")	
12	160-1298	1	PUMP MOUNT KIT - 1.125	FOOTNOTE 1
13	105-677	4	FLG BOLT (3/8-NC X 1-1/4")	
14	166-825	1	KEY (1/4" X 1-1/4")	
15	500-2088	1	FUEL FILTER	
16	115-241	1	CAP (O4NF)	
17	150-4589	1	NIPPLE (O4N-2" 304SS)	USE PIPE THREAD SEALANT
18	150-4588	1	CONNECTOR (M14-1.50-O4NF)	
19	362-2615	1	CLAMP - SQUEEZE (404-.452)	
20	106-561	2	LOCKNUT (M8-1.25PRV TRQ,10.9)	
21	107-859	2	NUT, LOCK, #6-32, NYLON INSERT	
22	215-1863	1	TACHOMETER/HOURMETER	
23	105-797	3	SCREW (M6-1.00 X 20MM, BX)	
24	302-2531	1	MANUAL COMPARTMENT - VENTED	
25	215-2268	1	FAN HARNESS	
26	106-237	3	LOCKNUT (M6-1.00,PRV TRQ,NLK)	
27	215-0042	1	BATTERY CABLE (6GA X 33", BLK)	
28	215-0060	1	BATTERY CABLE (6GA x 36", RED)	
29	215-256	1	BATTERY (12V, 200 AMP)	
30	362-1857	1	S/O COUPLER (O3H-O4H)	
31	106-385	2	FLG LOCKNUT (M6-1.00)	
32	106-712	2	FLG SCREW (M6-1.00 X 16MM)	
33	105-1876	2	SCREW (#6-32 X 5/8", SOC ZP)	
34	302-3982	1	BATTERY TRAY	
35	195-2476	1	NUT - SWITCH	
36	195-2475	1	COVER - SWITCH	
37	195-2478	1	KEY	
38	106-538	4	LOCKNUT (M6-1.00,PRV TRQ,10.9)	
39	106-848	4	FLG SCREW (M6-1.00 X 25MM)	
40	302-3983	1	BATTERY HOLD DOWN	

NOT SHOWN:

195-2609 STARTER
195-2631 STATOR
195-2644 REGULATOR

FOOTNOTES:

1. PUMP MOUNT KIT 160-1298 COMPONENTS. 160-1217 FLANGED COUPLER (1.125"), 160-1218 FLANGED COUPLER (9T-.625") AND 160-1219 SPIDER INSERT GREEN. TORQUE COUPLING BOLT TO 35 FT-LB. USE LOCTITE 242
2. TO FUEL TANK VENT. REFER TO FUEL TANK PARTS PAGE - ID0425530 FOR LOCATION.

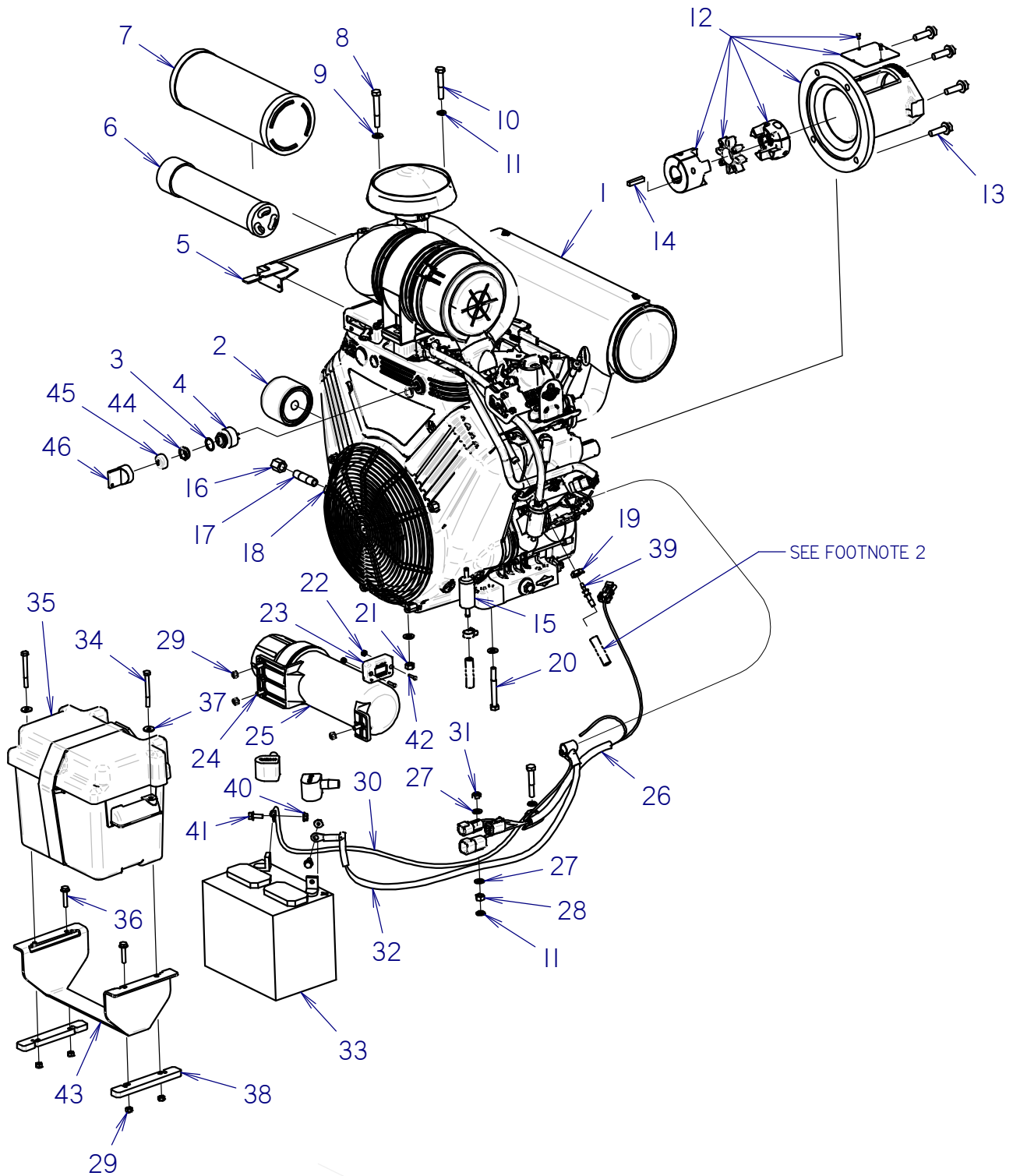
NOTE:

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ENGINE ELECTRICAL

C30X/VP30

ENDS WITH S/N: DWPC30XAAH0000253 / DWPVP30XAH0000007



ENGINE ELECTRICAL**C30X/VP30****ENDS WITH S/N: DWPC30XAAH0000253 / DWPVP30XAH0000007**

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-2172	1	ENGINE - VANGUARD 31HP	5W30 2.4QT (79 OZ)
2	500-2093	1	OIL FILTER	
3	195-2477	1	LOCK WASHER	
4	195-1482	1	KEY SWITCH	
5	500-2812	1	THROTTLE CABLE	
6	194-039	1	FILTER ELEMENT - SECONDARY	
7	194-038	1	FILTER ELEMENT, PRIMARY	
8	106-570	1	SCREW (M8-1.25 X 60MM)	
9	105-226	3	WASHER (5/16")	
10	106-329	2	SCREW (M8-1.25 X 50MM)	
11	105-091	3	LOCK WASHER (5/16")	
12	160-1298	1	PUMP MOUNT KIT - 1.125	FOOTNOTE 1
13	105-677	4	FLG BOLT (3/8-NC X 1-1/4")	
14	166-825	1	KEY (1/4" X 1-1/4")	
15	500-2088	1	FUEL FILTER	
16	115-241	1	CAP (O4NF)	
17	150-4589	1	NIPPLE (O4N-2" 304SS)	USE PIPE THREAD SEALANT
18	150-4588	1	CONNECTOR (M14-1.50-O4NF)	
19	362-2615	1	CLAMP - SQUEEZE (404-452)	
20	106-330	1	SCREW (M8-1.25 X 70MM)	
21	106-561	1	LOCKNUT (M8-1.25PRV TRQ,10.9)	
22	107-859	2	NUT, LOCK, #6-32, NYLON INSERT	
23	215-1863	1	TACHOMETER/HOURMETER	
24	105-797	3	SCREW (M6-1.00 X 20MM, BX)	
25	302-2531	1	MANUAL COMPARTMENT - VENTED	
26	215-2268	1	FAN HARNESS	
27	106-389	2	WASHER (M8)	
28	106-078	1	NUT (M8-1.25)	
29	106-237	7	LOCKNUT (M6-1.00PRV TRQ,NLK)	
30	215-0042	1	BATTERY CABLE (6GA X 33", BLK)	
31	107-096	1	LOCKNUT (M8-1.25, NLK)	
32	215-0060	1	BATTERY CABLE (6GA x 36", RED)	
33	215-256	1	BATTERY (12V, 200 AMP)	
34	106-595	2	SCREW (M6-1.00 X 60MM)	
35	362-1869	1	PLASTIC BATTERY BOX	
36	107-366	2	SCREW (M6-1.00 X 30MM, 8.8)	
37	107-801	2	WASHER (M6)	
38	302-0734	2	SPACER- BATTERY BOX	
39	362-1857	1	S/O COUPLER (O3H-O4H)	
40	106-385	2	FLG LOCKNUT (M6-1.00)	
41	106-712	2	FLG SCREW (M6-1.00 X 16MM)	
42	105-1876	2	SCREW (#6-32 X 5/8", SOC ZP)	
43	302-2875	1	BRACKET - BATTERY SUPPORT	
44	195-2476	1	NUT - SWITCH	
45	195-2475	1	COVER - SWITCH	
46	195-2478	1	KEY	

NOT SHOWN:

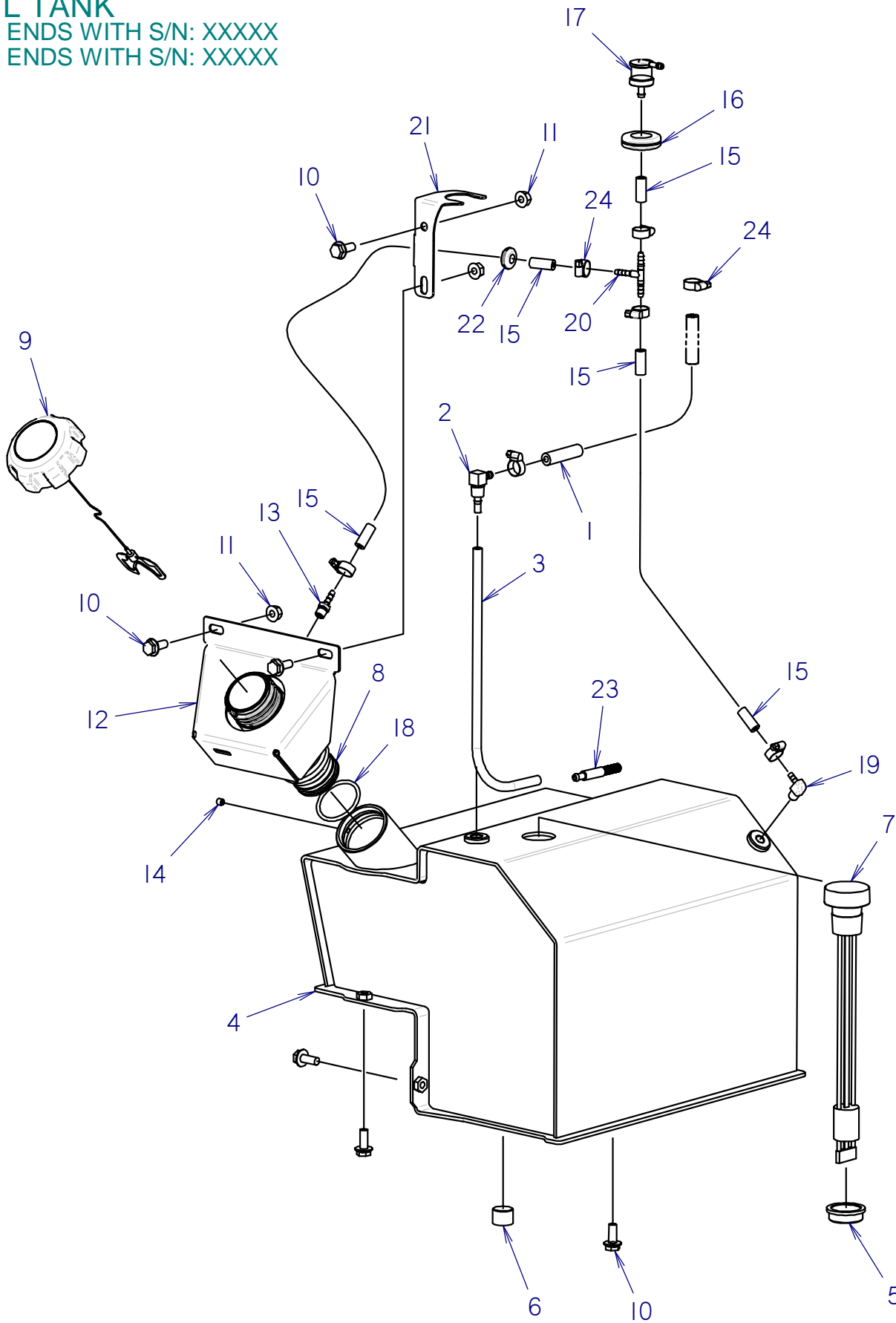
195-2609 STARTER
195-2631 STATOR
195-2644 REGULATOR

FOOTNOTES:

1. PUMP MOUNT KIT 160-1298 COMPONENTS. 160-1217 FLANGED COUPLER (1.125"), 160-1218 FLANGED COUPLER (9T-.625") AND 160-1219 SPIDER INSERT GREEN. TORQUE COUPLING BOLT TO 35 FT-LB. USE LOCTITE 242
2. TO FUEL TANK VENT. REFER TO FUEL TANK PARTS PAGE - ID0425530 FOR LOCATION.

NOTE:

THIS PARTS PAGE SUPERSEDES OLD #ID0399785.

FUEL TANKC24X ENDS WITH S/N: XXXXX
C30X ENDS WITH S/N: XXXXX

FUEL TANK

C24X ENDS WITH S/N: XXXXX
C30X ENDS WITH S/N: XXXXX

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-1517	24	BULK HOSE (1/4") LOW PERM	USED ON C30X ONLY. SEE FOOTNOTE 1
2	150-4500	1	S/O COUPLER (04N-04H90)	USED ON C30X ONLY. SEE FOOTNOTE 2
3	118-096	12	BULK FUEL TUBING (1/4",PER FT)	
4	301-9183	1	TANK - FUEL	
5	105-2011	1	FUEL GAUGE GROMMET	
6	115-165	1	PLUG (08N, SOCI)	USE PIPE THREAD SEALANT
7	195-2250	1	FUEL GAUGE	
8	302-0353	1	FILL NECK	
9	362-1479	1	FUEL CAP (RATCHET 2.25")	
10	105-1795	6	FLG LK SCREW (M8-1.25 X 20mm) SERRATED	
11	106-386	3	FLG LOCKNUT (M8-1.25)	
12	302-0355	1	PLATE - FUEL FILL	
13	150-4758	1	S/O COUPLER (02N-03H)	
14	105-712	1	SET SCREW (1/4-NC X 1/4", CUP)	
15	105-1516	29	BULK HOSE (3/16") LOW PERM	16" FILLNECK TO TEE; 2" TEE TO SLOSH VALVE; 21" TEE TO TANK)
16	362-2088	1	GROMMET (.875)	
17	362-1530	1	SLOSH VALVE	
18	157-022	1	O-RING (224 D90)	
19	150-4496	1	S/O ELBOW (02N-02H)	
20	150-4830	1	TEE 03H - 03H - 03H	
21	302-0599	1	MOUNT - ROLL OVER VALVE	
22	362-2618	1	GROMMET (3/8")	
23	150-4499	1	FUEL PICK-UP	
24	110-249	7	WORM CLAMP (1/4" TO 5/8")	

NOT SHOWN:

FOOTNOTES:

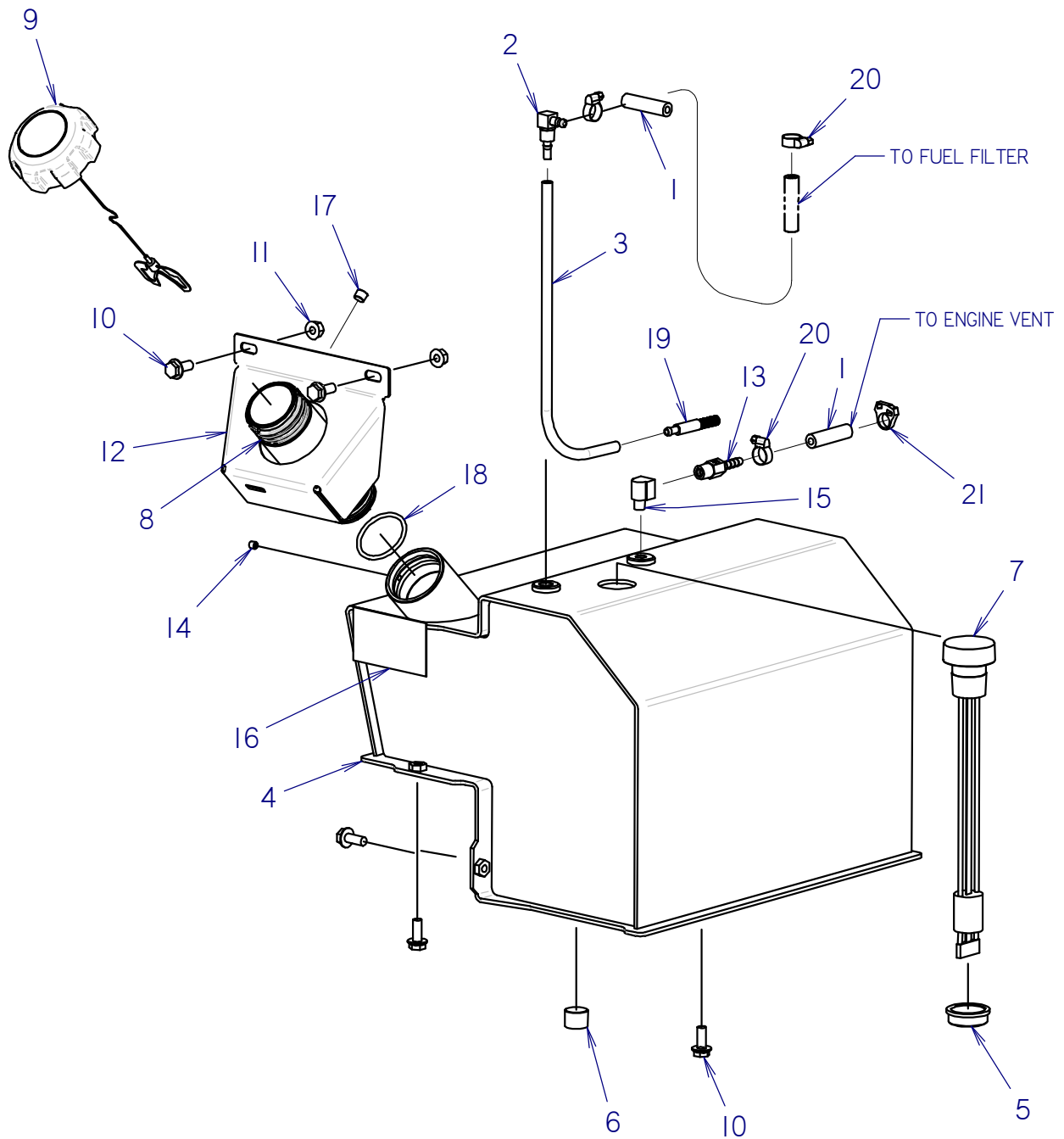
1. USE 105-1518 BULK HOSE (5/16") LOW PERM ON C24X. 22.00" LENGTH
2. USE 150-4497 S/O COUPLER (04N-05H90) ON C24X.

NOTE:

FUEL TANK

C24X BEGINS WITH S/N: DWPC24XAVH0000391

C30X BEGINS WITH S/N: DWPC30XAPH0000150



FUEL TANK

C24X BEGINS WITH S/N: DWPC24XAVH0000391

C30X BEGINS WITH S/N: DWPC30XAPH0000150

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-1517	45	BULK HOSE (1/4") LOW PERM	SEE FOOTNOTE 1
2	150-4500	1	S/O COUPLER (04N-04H90)	
3	118-096	12	BULK FUEL TUBING (1/4",PER FT)	
4	301-9183	1	TANK - FUEL	
5	105-2011	1	FUEL GAUGE GROMMET	
6	115-165	1	PLUG (08N, SOC)	USE PIPE THREAD SEALANT
7	195-2250	1	FUEL GAUGE	
8	302-0353	1	FILL NECK	
9	362-1479	1	FUEL CAP (RATCHET 2.25")	
10	105-1795	5	FLG LK SCREW (M8-1.25 X 20mm) SERRATED	
11	106-386	2	FLG LOCKNUT (M8-1.25)	
12	302-0355	1	PLATE - FUEL FILL	
13	150-5172	1	FITTING - ANTI-SIPHON (04N-04H)	USE PIPE THREAD SEALANT
14	105-712	1	SET SCREW (1/4"-NC X 1/4", CUP)	USE LOCTITE 242
15	150-5186	1	S/O COUPLER (02N-04NF90)	USE PIPE THREAD SEALANT
16	270-4973	1	EMISSIONS CONTROL METAL TANK PLATE	
17	115-157	1	PLUG (02N, SOC)	USE PIPE THREAD SEALANT
18	157-022	1	O-RING (224 D90)	
19	150-4499	1	FUEL PICK-UP	
20	110-249	3	WORM CLAMP (1/4" TO 5/8")	
21	110-628	1	SNAP-ON CLAMP (.468" TO .531")	

NOT SHOWN:

FOOTNOTES:

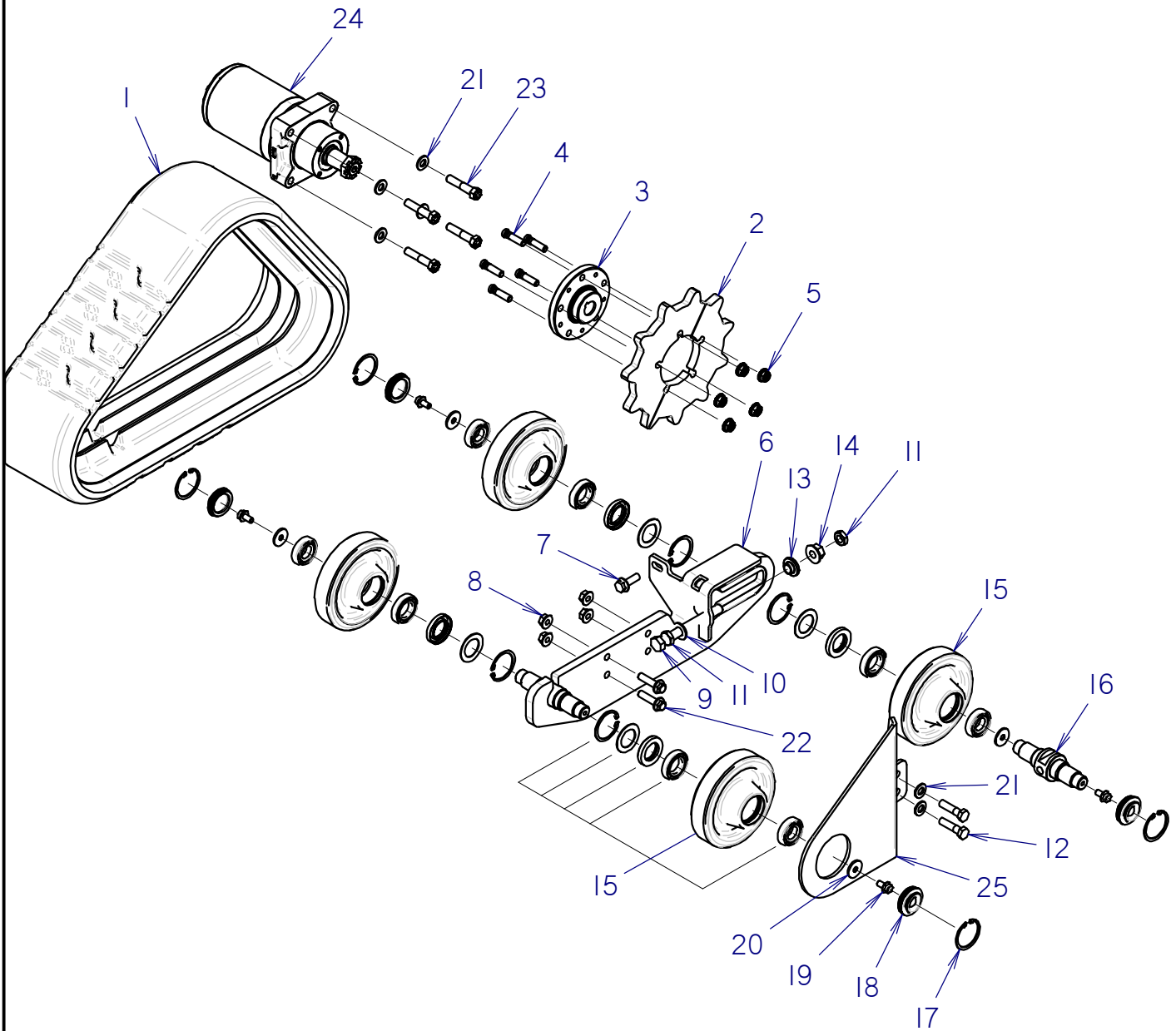
- 1. C24X & C30X VENT HOSE 105-1517 31"
- C24X FUEL SUPPLY HOSE 105-1517 22"
- C30X FUEL SUPPLY HOSE 105-1517 14"

NOTE:

POWERTRAIN

LEFT TRACK ASSEMBLY

C12X/C16X/ C24X/ C30X



LEFT TRACK ASSEMBLY

C12X/C16X/ C24X/ C30X

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	362-2012	1	RUBBER TRACK (200 X 25 X 72 SWA)	
2	301-2112	2	TRACK SPROCKET	
3	302-2399	1	HUB- MACHINED ZP	(HYD MOTOR NUT) TORQUE TO 300 LB FT
4	107-048	5	LUG BOLT (7/16-NF X 1-3/4")	
5	105-1879	5	FLG LOCKNUT (7/16-NF, HARDENED)	TORQUE TO 95 LB FT
6	301-9162	1	SHORT TRACK FRAME - LEFT	
7	106-632	1	FLG LK SCR (M12-1.75X35MM,SER)	
8	106-706	4	FLANGE LOCKNUT (M12-1.75)	
9	106-983	1	SCREW (M16-2.00 X 150MM, 10.9 FULL)	ANTISIEZE APPLIED TO END OF BOLT
10	106-392	1	WASHER (M16)	
11	106-775	2	JAM NUT (M16-2.00)	
12	107-748	2	SCREW (M12-1.75 X 50MM, 10.9)	
13	301-9503	1	FLANGED BUSHING	
14	106-355	1	FLG NUT (M16-2.00, 10.9)	
15	170-1057	4	TRACK ROLLER 7"	
16	301-9504	1	AXLE, TRACK ROLLER	ANTI-SIEZE THREADS ONLY
17	105-1301	4	INTERNAL SNAP RING (2.188)	
18	300-7979	4	WHEEL CAP	
19	105-825	4	FLG LK BOLT (3/8-NC X 3/4)	USE LOCTITE 242
20	105-1303	4	WASHER (.406 X 1.312 X .120)	
21	106-743	6	WASHER (.531", HARDENED)	
22	107-307	2	FLG SCREW (M12-1.75 X 45MM 10.9, ZP)	
23	105-1937	4	BOLT (1/2-NC X 2-1/2", GD8)	TORQUE TO 90 - 100 LB FT
24	150-4284	1	HYDRAULIC MOTOR (48.0 CID)	
25	301-6726	1	TRACK SHOE	

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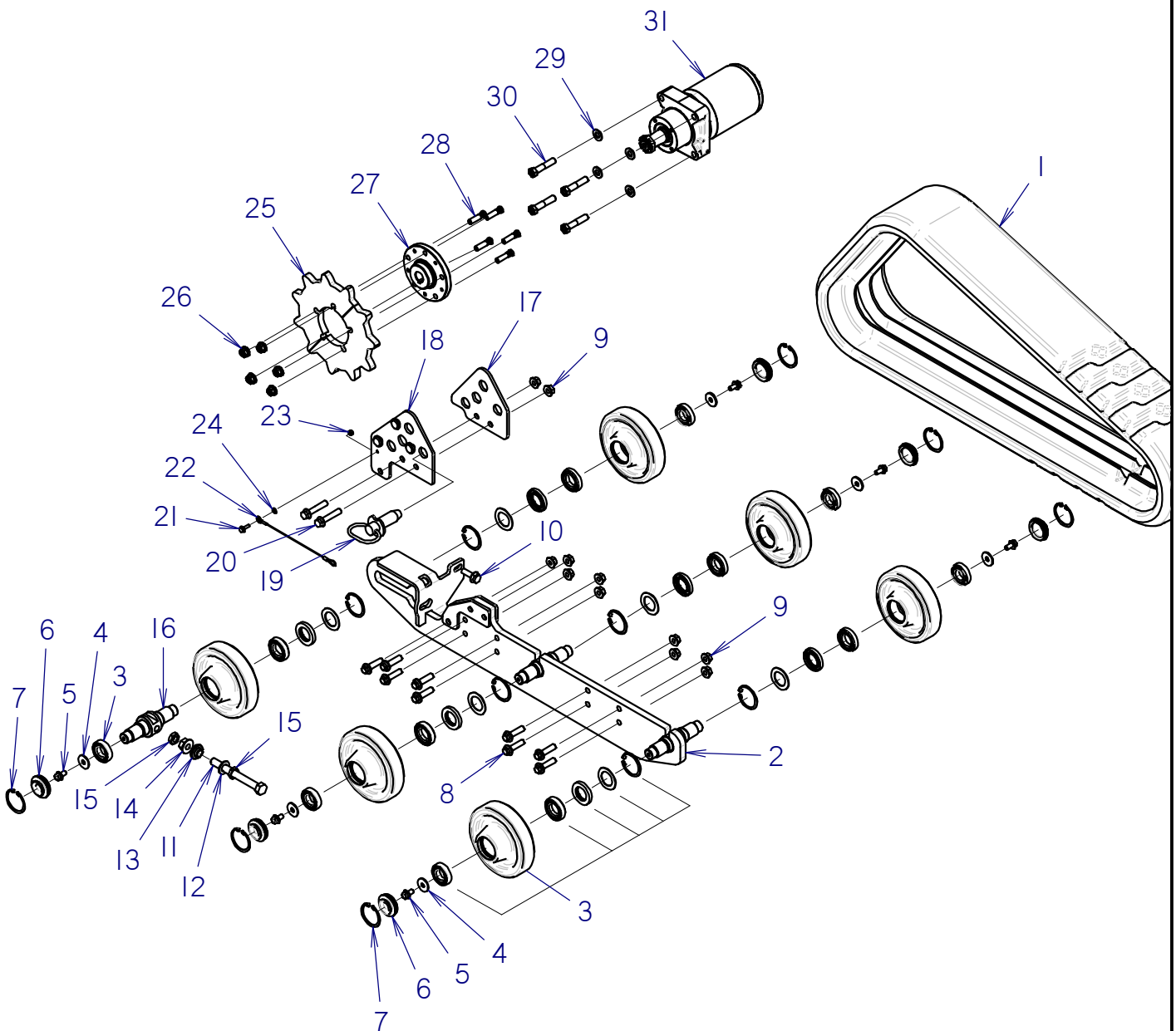
FOOTNOTES:

NOTE:

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RIGHT TRACK ASSEMBLY

C12X / C16X / C24X / C30X



RIGHT TRACK ASSEMBLY

C12X / C16X / C24X / C30X

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	362-2013	1	RUBBER TRACK (200 X 36 X 72 SWA)	
2	301-9165	1	LONG TRACK FRAME - RIGHT	
3	170-1057	6	TRACK ROLLER 7"	
4	105-1303	6	WASHER (.406 X 1.312 X .120)	
5	105-825	6	FLG LK BOLT (3/8-NC X 3/4)	
6	300-7979	6	WHEEL CAP	
7	105-1301	6	INTERNAL SNAP RING (2.188)	
8	107-307	9	FLG SCREW (M12-1.75 X 45MM (10.9, ZP))	
9	106-706	11	FLANGE LOCKNUT (M12-1.75)	
10	106-632	1	FLG LK SCR (M12-1.75X35MM,SER)	
11	106-983	1	SCREW (M16-2.00 X 150MM, 10.9 FULL)	
12	106-392	1	WASHER (M16)	
13	301-9503	1	FLANGED BUSHING	
14	106-355	1	FLG NUT (M16-2.00, 10.9)	
15	106-775	2	JAM NUT (M16-2.00)	
16	301-9504	1	AXLE, TRACK ROLLER	
17	302-0358	1	PLATE - BRAKE	
18	302-0347	1	BRAKE PLATE	
19	105-2063	1	PIN & HANDLE (1.0 DIA X 1.87)	
20	105-2068	2	FLG LK SCREW (M12-1.75 X 60MM)	
21	105-797	1	SCREW (M6-1.00 X 20MM, BX)	
22	105-2145	1	LANYARD LOOP/EYE	
23	106-538	1	LOCKNUT (M6-1.00,PRV TRQ,10.9)	
24	107-744	1	WASHER (M6)	
25	301-2112	2	TRACK SPROCKET	
26	105-1879	5	FLG LOCKNUT (7/16-NF, HARDENED)	95 FT LBS
27	302-2399	1	HUB- MACHINED ZP	(HYD MOTOR NUT) TORQUE TO 300 LB FT
28	107-048	5	LUG BOLT (7/16-NF X 1-3/4")	
29	106-743	4	WASHER (.531", HARDENED)	
30	105-1937	4	BOLT (1/2-NC X 2-1/2", GD8)	
31	150-4284	1	HYDRAULIC MOTOR (48.0 CID)	

NOT SHOWN:

FOOTNOTES:

NOTE:

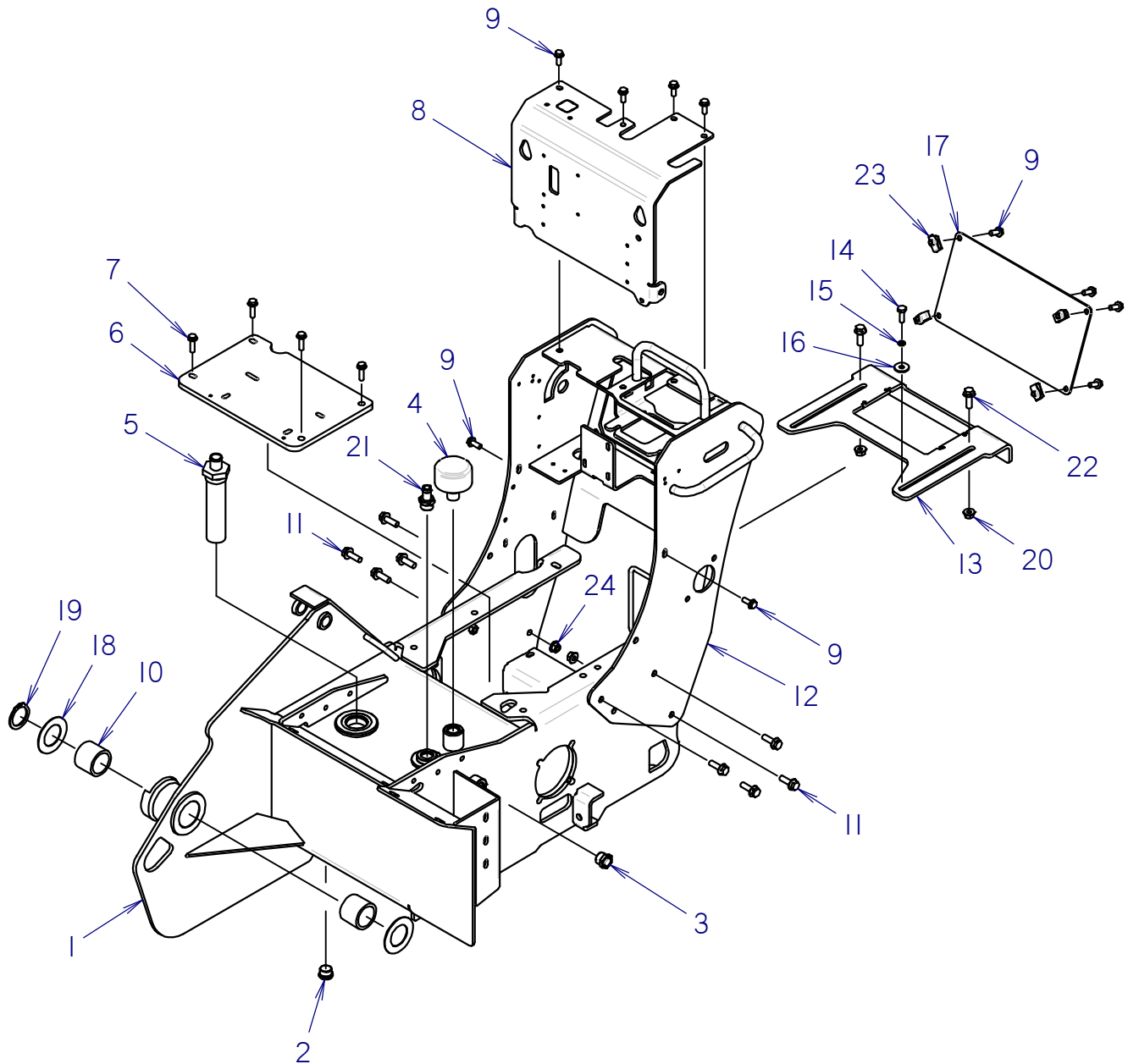
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FRAME COMPONENTS

FRAME

C12X / C16X / C24X / C30X / VP30

BEGINS WITH S/N:



FRAME

C12X / C16X / C24X / C30X / VP30

BEGINS WITH S/N:

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	301-9231	1	FRAME - PEDESTRIAN	SUNBELT GREEN PART #333-1005; VP30 FRAME = 302-0334
2	159-392	1	PLUG (12S, SOC)	
3	121-040	1	SIGHT GLASS	
4	150-2337	1	BREATHER -12SAE	
5	150-2925	1	TANK STRAINER (100MESH -16HB)	
6	301-9202	1	PLATE - ENGINE MOUNT	SUNBELT GREEN PART #333-1007
7	106-993	4	FLG LK SCREW (M10-1.50 X 35MM)	
8	302-5531	1	CONTROL TOWER COVER - CX SERIES	SUNBELT GREEN PART #333-1084
9	105-799	10	FLG LK SCREW (M10-1.50 X 25MM)	
10	125-754	2	COMPOSITION BUSHING (2")	
11	107-003	8	FLG LK SCREW (M12-1.75 X 35MM)	
12	302-0257	1	CONTROL TOWER - OFFSET	SUNBELT GREEN PART #333-1002
13	302-4526	1	BATTERY SLIDE	SUNBELT GREEN PART #333-1089. NOT USED ON C12X
14	106-079	1	SCREW (M10-1.50 X 30MM)	NOT USED ON C12X
15	106-090	1	LOCK WASHER (M10)	NOT USED ON C12X
16	105-1303	1	WASHER (.406 X 1.312 X .120)	NOT USED ON C12X
17	301-6751	1	REAR COVER	SUNBELT GREEN PART #333-1001
18	106-522	2	THRUST WASHER	
19	115-542	1	SNAP RING	
20	106-706	2	FLANGE LOCKNUT (M12-1.75)	NOT USED ON C12X
21	150-2028	1	S/O COUPLER (12S-12H)	
22	105-1896	2	FLG SCREW (M12-1.75 X 35MM)	NOT USED ON C12X
23	107-287	4	CLIP NUT (M10-1.50)	
24	106-709	2	FLG LK NUT (M12-1.75)	

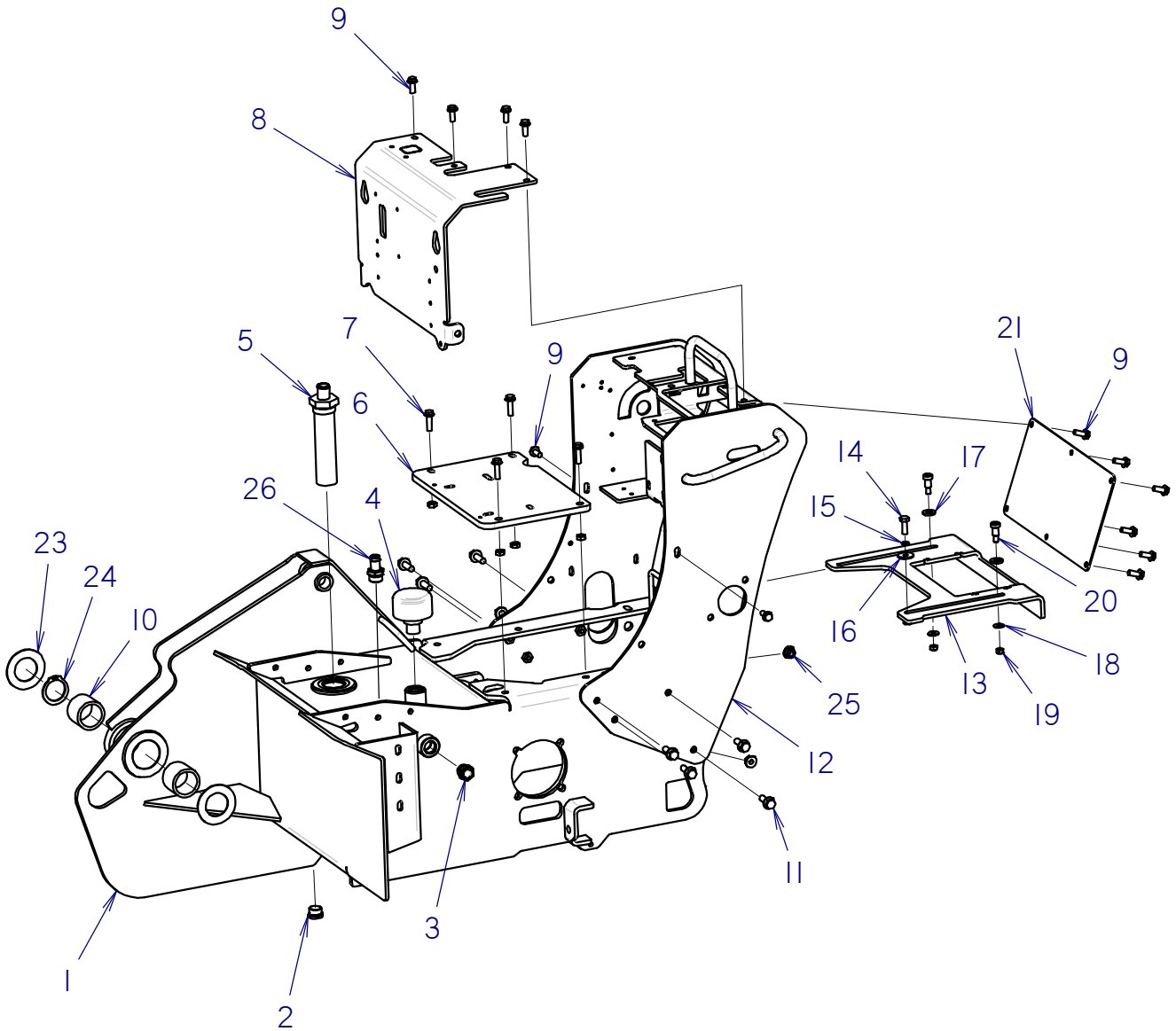
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FOOTNOTES:

NOTE:

THIS PARTS PAGE SUPERSEDES OLD #ID0425549

FRAME
C16X/ C24X/ C30X/ VP30
ENDS WITH S/N:.....



FRAME

C16X/ C24X/ C30X/ VP30

ENDS WITH S/N:.....

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	301-9231	1	FRAME - PEDESTRIAN	SUNBELT GREEN PART #333-1005; VP30 FRAME = 302-0334
2	159-392	1	PLUG (12S, SOC)	
3	121-040	1	SIGHT GLASS	
4	150-2337	1	BREATHER -12SAE	
5	150-2925	1	TANK STRAINER (100MESH -16HB)	
6	301-9202	1	PLATE - ENGINE MOUNT	SUNBELT GREEN PART #333-1007
7	106-993	4	FLG LK SCREW (M10-1.50 X 35MM)	
8	302-5531	1	CONTROL TOWER COVER - CX SERIES	SUNBELT GREEN PART #333-1084
9	105-799	12	FLG LK SCREW (M10-1.50 X 25MM)	
10	125-754	2	COMPOSITION BUSHING (2")	
11	107-003	8	FLG LK SCREW (M12-1.75 X 35MM)	
12	302-0257	1	CONTROL TOWER - OFFSET	SUNBELT GREEN PART #333-1002
13	301-9194	1	BATTERY SLIDE	SUNBELT GREEN PART #333-1006
14	106-079	1	SCREW (M10-1.50 X 30MM)	
15	106-090	1	LOCK WASHER (M10)	
16	105-1303	1	WASHER (.406 X 1.312 X .120)	
17	106-397	2	WASHER (M12, HARDENED)	
18	105-117	2	WASHER (5/16")	
19	105-047	2	LOCKNUT (3/8-NC)	
20	105-1902	2	SHLD BLT (1/2" X 3/4", 3/8-NC, ZP)	
21	301-6751	1	REAR COVER	SUNBELT GREEN PART #333-1001
23	106-522	2	THRUST WASHER	
24	115-542	1	SNAP RING	
25	106-706	2	FLANGE LOCKNUT (M12-1.75)	
26	150-2028	1	S/O COUPLER (12S-12H)	

NOT SHOWN:

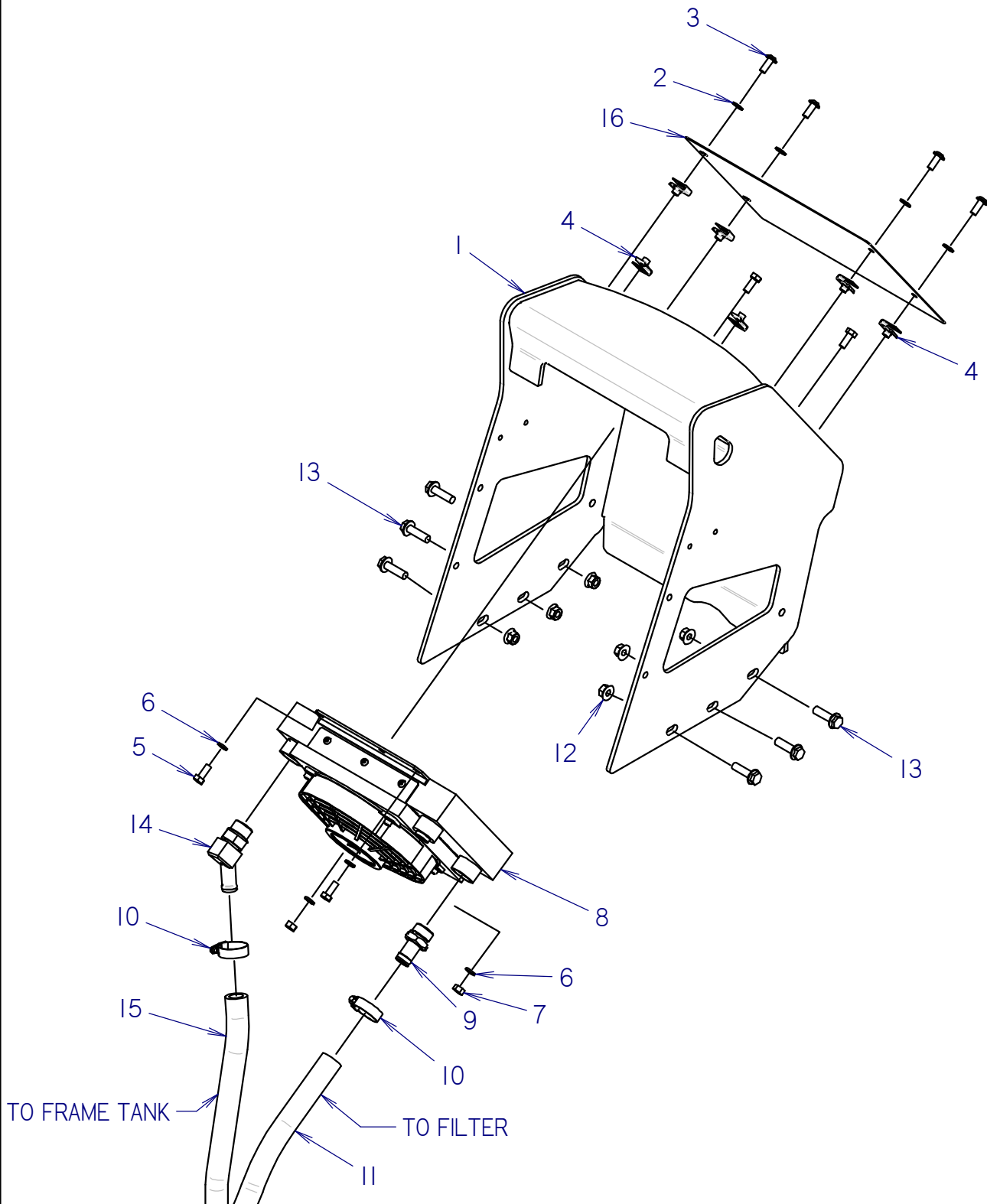
FOOTNOTES:

NOTE:

THIS PARTS PAGE SUPERSEDES OLD #ID0397617

COOLER TOWER

C16X/ C24X/ C30X/ VP30



COOLER TOWER

C16X/ C24X/ C30X/ VP30

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	302-0496	1	COOLER TOWER	
2	107-629	4	WASHER (M8)	
3	106-767	4	SCREW (M8-1.25 X 20mm,BUT SOC)	
4	106-551	6	CLIP NUT (M8-1.25)	
5	106-083	4	SCREW (M8-1.25 X 20MM)	
6	105-091	4	LOCK WASHER (5/16")	
7	106-078	2	NUT (M8-1.25)	
8	150-4838	1	OIL COOLER - PUSHER FAN	
9	150-2028	1	S/O COUPLER (12S-12H)	
10	110-353	2	WORM CLAMP (3/4" TO 1-1/2")	
11	117-378	40	BULK HOSE, L P (1-12)PER IN)	
12	106-387	6	FLG LOCKNUT (M10-1.50)	
13	105-2377	6	FLG LK SCREW (M10-1.50 X 35MM)	
14	155-196	1	S/O COUPLER (12S-12H45)	
15	117-378	14	BULK HOSE, L P (1-12)PER IN)	
16	302-6574	1	GRILLE	

NOT SHOWN:

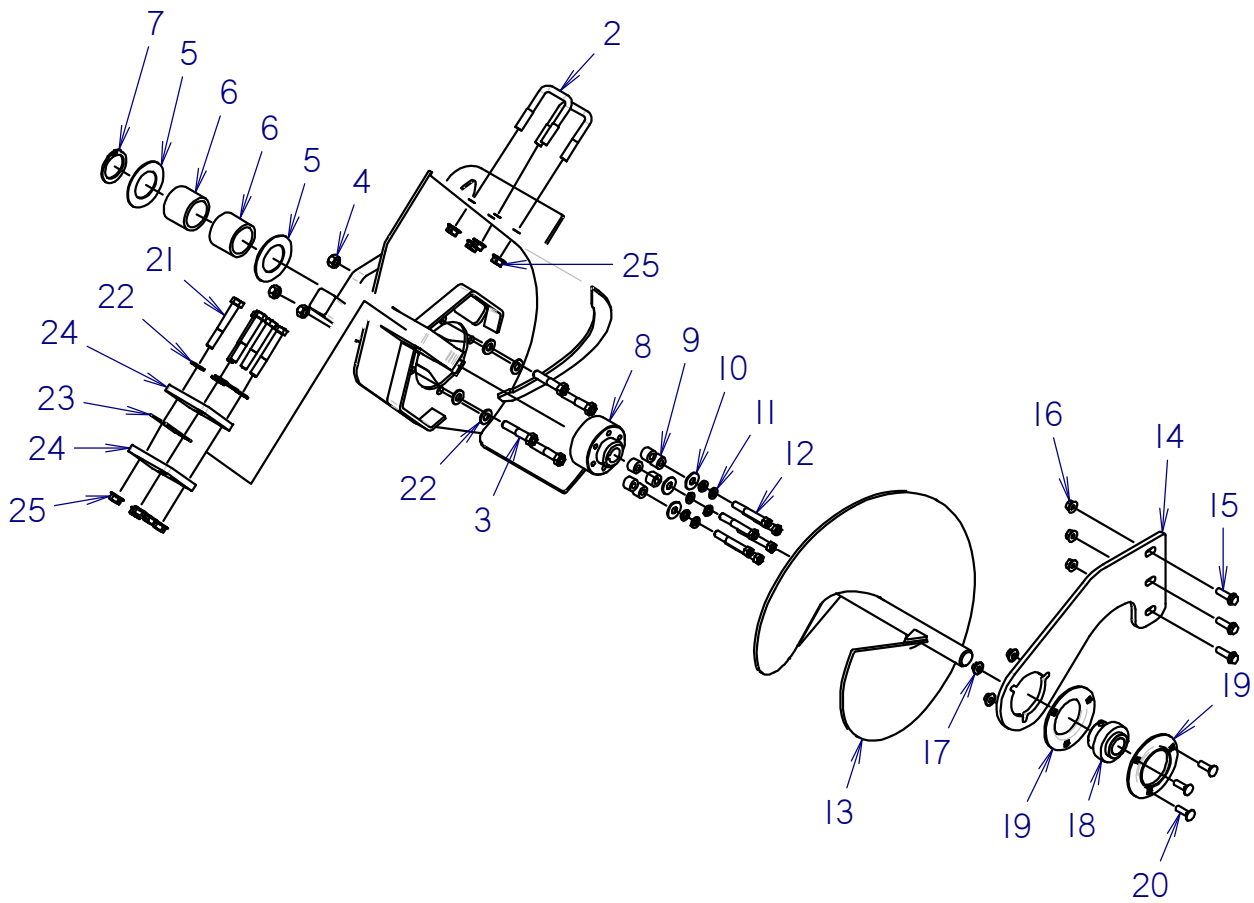
FOOTNOTES:

NOTE:

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PIVOT ASSEMBLY

C12X / C16X / C24X / C30X



PIVOT ASSEMBLY

C12X / C16X / C24X / C30X

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1*	301-6175	1	PIVOT	
2	105-1770	2	U-BOLT 2 INCH SQUARE	
3	105-1937	4	BOLT (1/2-NC X 2-1/2", GD8)	
4	105-065	4	LOCKNUT (1/2-NC)	
5	106-522	2	THRUST WASHER	
6	125-754	2	COMPOSITION BUSHING (2")	
7	115-542	1	SNAP RING	
8	301-6176	1	DRIVE HUB	(HYD MOTOR NUT) TORQUE TO 300 LB FT
9	300-9124	6	BUSHING	
10	105-059	3	WASHER (7/16")	
11	105-073	6	LOCK WASHER (7/16")	
12	107-035	6	BOLT (7/16-NC X 3", GD8)	USE LOCTITE 271, TORQUE TO 75 LB FT.
13	302-2651	1	SPOILS AUGER - CX	
14	302-0359	1	AUGER SUPPORT	
15	105-2377	3	FLG LK SCREW (M10-1.50 X 35MM)	
16	106-387	3	FLG LOCKNUT (M10-1.50)	
17	105-814	3	FLG LOCKNUT (3/8-NC)	
18	125-1128	1	BALL BEARING - MAINT. FREE (1.25)	
19	110-396	2	FLANGETTE (3-BOLT, L/ZERK)	
20	105-249	3	CARRIAGE BOLT(3/8-NC X 1-1/4")	
21	105-136	5	BOLT (1/2-NC X 3-1/2", GD8)	
22	106-743	9	WASHER (.531", HARDENED)	
23	301-7049	1	PIVOT SHIM	
24	302-2631	2	CLAMP PLATE	
25	106-198	9	FLG LOCKNUT (1/2-NC, GD8)	

NOT SHOWN:

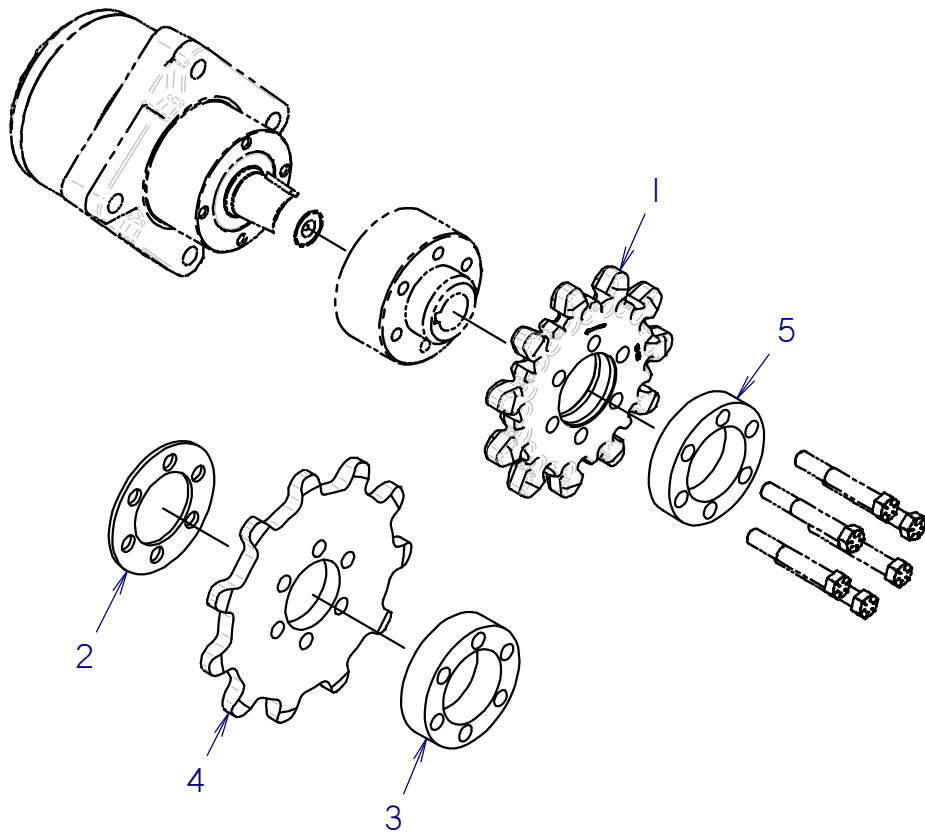
FOOTNOTES:

NOTE:

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SPROCKET OPTION

C12 / C14 / C16
C12X / C16X / C24X / C30X



SPROCKET OPTION

C12 / C14 / C16

C12X / C16X / C24X / C30X

REF PART

NO.	NUMBER	QTY	DESCRIPTION	REMARKS
1	375-1164	1	SPROCKET 11 TOOTH 35K	
2	302-0907	1	SPACER DRIVE HUB- 19K	HYD MOTOR NUT - TORQUE TO 375 FT-LBS. NOT AVAILABLE FOR C12X.
3	302-0691	1	AUGER BUSHING SPACER - 19K	NOT AVAILABLE FOR C12X.
4	140-1347	1	HEAD SPROCKET (11T, 2P)	NOT AVAILABLE FOR C12X.
5	301-7048	1	AUGER BUSHING SPACER	

NOT SHOWN:

FOOTNOTES:

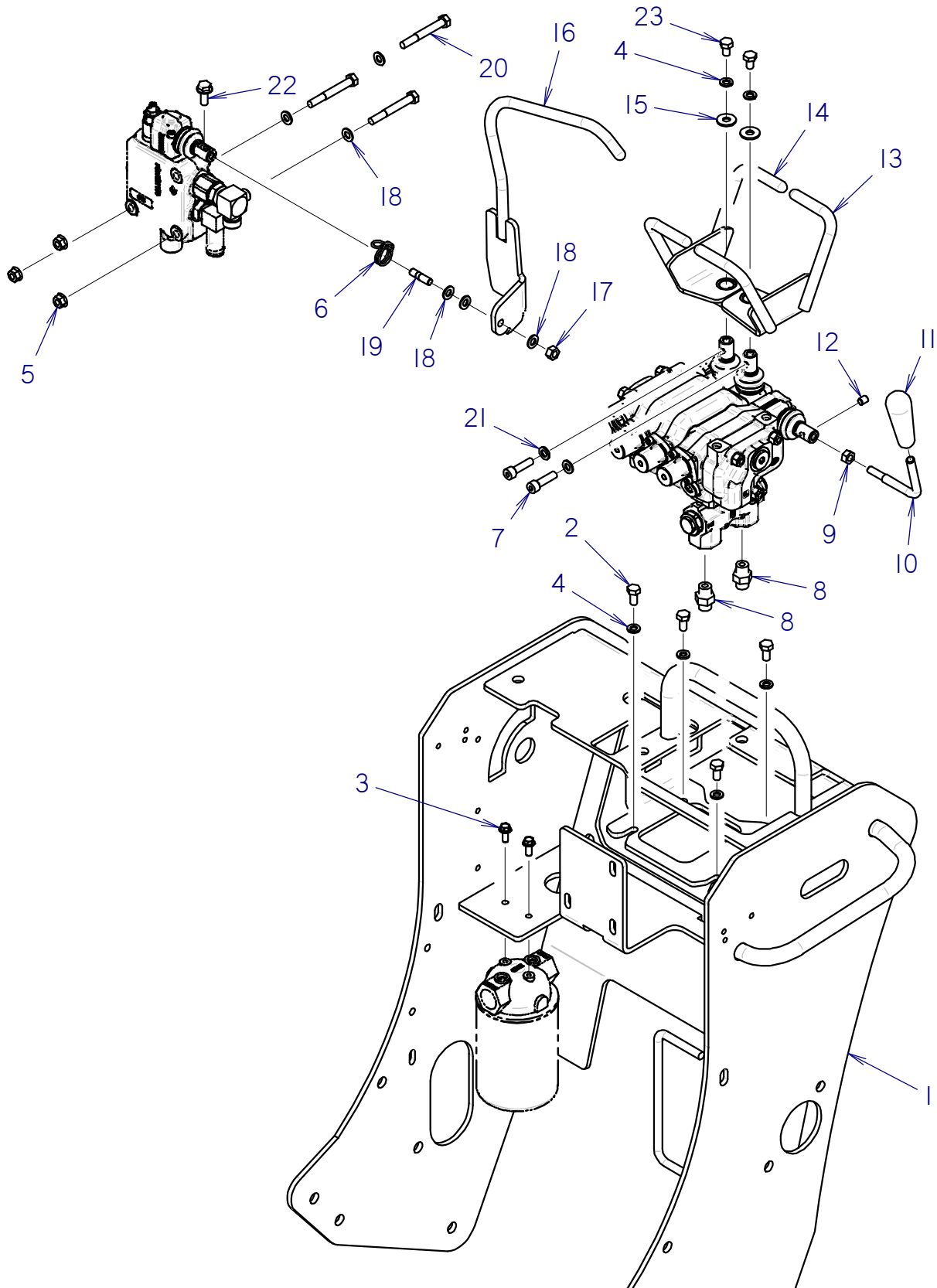
NOTE:

1. REFERENCE NUMBERS (1 AND 5) ARE PART OF OPTION 35K
2. REFERENCE NUMBERS (2,3 AND 4) ARE PART OF OPTION 19K. 19K OPTION NOT AVAILABLE FOR C12X.
3. THIS PARTS PAGE SUPERSEDES OLD #ID0401924

CONTROL COMPONENTS

CONTROL TOWER

C12X / C16X / C24X / C30X / VP30
BEGINS WITH S/N: SEE FOOTNOTE 1



CONTROL TOWER
C12X / C16X / C24X / C30X / VP30
BEGINS WITH S/N: SEE FOOTNOTE 1

REF PART NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	302-0257	1	CONTROL TOWER - OFFSET	
2	106-232	4	SCREW (M8-1.25 X 16MM)	
3	105-2477	2	FLG LK BLT (1/4-NC X 5/8", SER, GD5)	
4	105-091	6	LOCK WASHER (5/16")	
5	106-386	3	FLG LOCKNUT (M8-1.25)	
6	105-2020	1	SPRING - TORSION	
7	105-892	2	SCREW (M8-1.25 X 30MM, SOCI)	USE LOCTITE 242
8	154-220	2	CONNECTOR (040-06S)	
9	106-078	1	NUT (M8-1.25)	
10	302-0287	1	HANDLE	USE LOCTITE 271 ON VALVE END
11	116-941	1	HANDLE (3/8-NC, GREEN)	
12	107-353	1	SET SCREW (M8-1.25 X 10MM)	USE LOCTITE 271
13	302-6053	1	LEVER - LEFT	SEE FOOTNOTE 1
14	302-6052	1	LEVER - RIGHT	SEE FOOTNOTE 1
15	105-117	2	WASHER (5/16")	
16	302-6695	1	ATTACHMENT CONTROL LEVER	SEE FOOTNOTE 1
17	106-561	1	LOCKNUT (M8-1.25,PRV TRQ,10.9)	HAND TIGHTEN - ITEM 23 TO ROTATE FREELY
18	106-395	6	WASHER (M8)	
19	108-192	1	DOUBLE END STUD M8 - 1.25	USE LOCTITE 271
20	107-872	3	SCREW (M8-1.25 X 65MM)	
21	106-389	2	WASHER (M8)	
22	106-991	1	FLG LK SCREW (M8-1.25 X 20MM)	
23	107-519	2	SCREW (M8-1.25 X 12MM)	

NOT SHOWN:

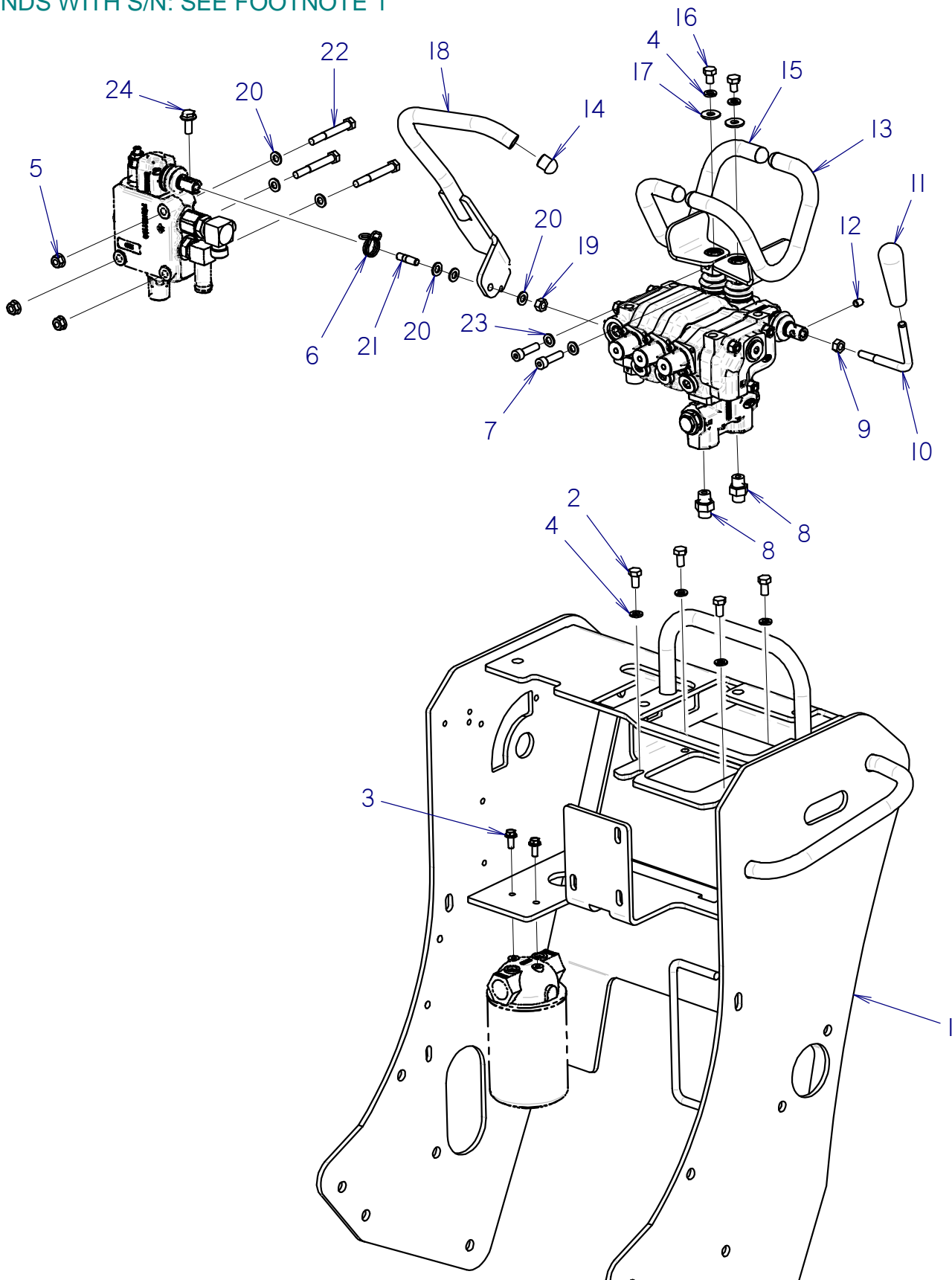
FOOTNOTES:

1. DWPC12XAKJ0000092, DWPC16XATJ0001392, DWPC24XACJ0001103, DWPC30XAVJ0000385, DWPVP30XEJ0000177

NOTE:

THIS PARTS PAGE SUPERSEDES OLD #ID0396589

CONTROL TOWER
 C12X/ C16X/ C24X/ C30X/ VP30
 ENDS WITH S/N: SEE FOOTNOTE 1



CONTROL TOWER

C12X/ C16X/ C24X/ C30X/ VP30
ENDS WITH S/N: SEE FOOTNOTE 1

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	302-0257	1	CONTROL TOWER - OFFSET	
2	106-232	4	SCREW (M8-1.25 X 16MM)	
3	105-2477	2	FLG LK BLT (1/4-NC X 5/8", SER, GD5)	
4	105-091	6	LOCK WASHER (5/16")	
5	106-386	3	FLG LOCKNUT (M8-1.25)	
6	105-2020	1	SPRING - TORSION	
7	105-892	2	SCREW (M8-1.25 X 30MM, SOCI)	USE LOCTITE 242
8	154-220	2	CONNECTOR (O40-O6S)	
9	106-078	1	NUT (M8-1.25)	
10	302-0287	1	HANDLE	USE LOCTITE 271 ON VALVE END
11	116-941	1	HANDLE (3/8-NC, GREEN)	
12	107-353	1	SET SCREW (M8-1.25 X 10MM)	USE LOCTITE 271
13	302-0587	1	HANDLE - LH	SUPERSEDED BY 302-6053, SEE FOOTNOTE 1
14	105-1877	5	ROUND DOMED TUBE GLIDE	SEE FOOTNOTE 1
15	302-0589	1	HANDLE - RH	SUPERSEDED BY 302-6052, SEE FOOTNOTE 1
16	107-519	2	SCREW (M8-1.25 X 12MM)	
17	105-117	2	WASHER (5/16")	
18	301-9219	1	ATTACHMENT CONTROL HANDLE - TUBE	SUPERSEDED BY 302-6695, SEE FOOTNOTE 1
19	106-561	1	LOCKNUT (M8-1.25,PRV TRQ,10.9)	HAND TIGHTEN - ITEM 23 TO ROTATE FREELY
20	106-395	6	WASHER (M8)	
21	108-192	1	DOUBLE END STUD M8 - 1.25	USE LOCTITE 271
22	107-872	3	SCREW (M8-1.25 X 65MM)	
23	106-389	2	WASHER (M8)	
24	106-991	1	FLG LK SCREW (M8-1.25 X 20MM)	

NOT SHOWN:

FOOTNOTES:

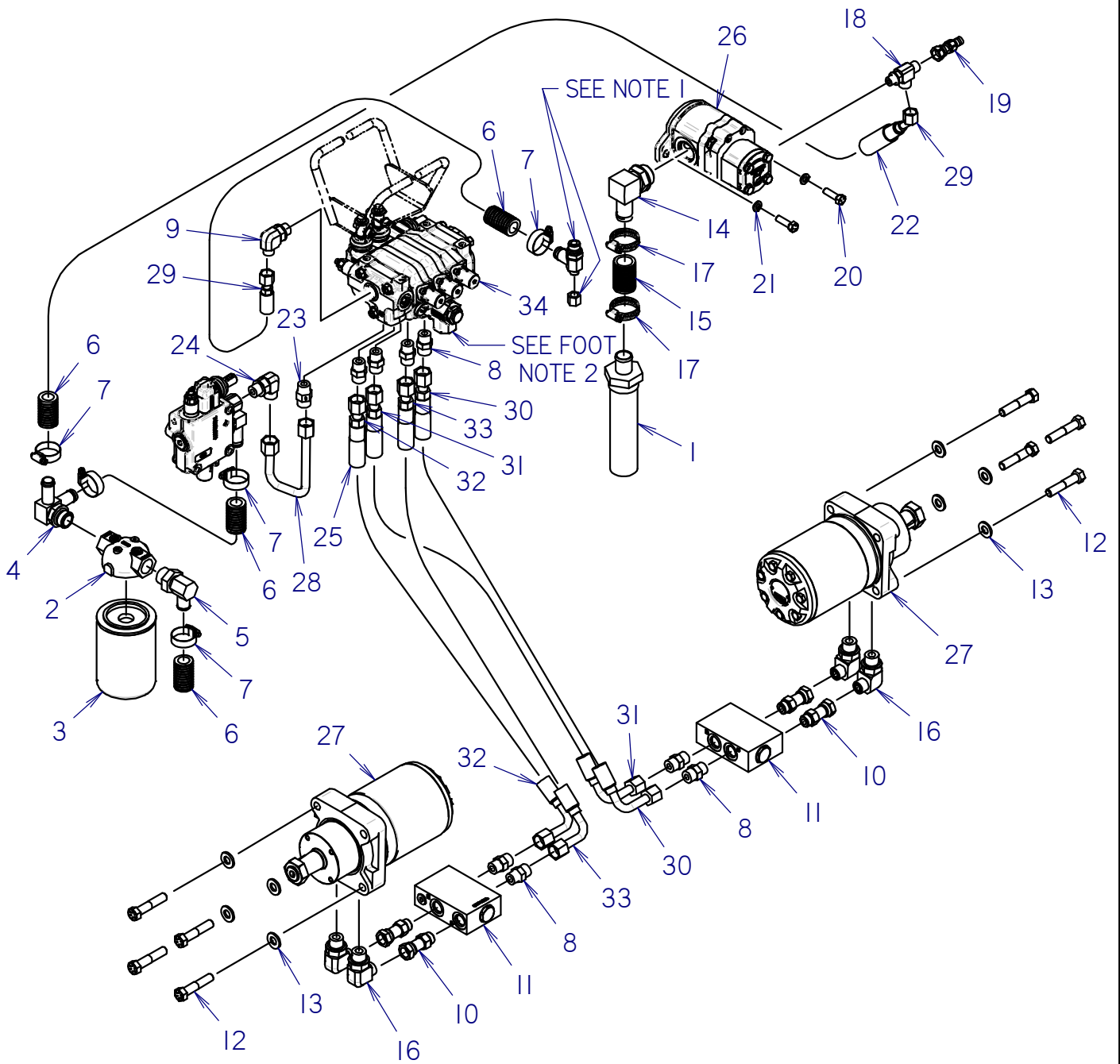
1.DWPC12XAPJ0000091, DWPC16XACJ0001391, DWPC24XAEJ0001102, DWPC30XACJ0000384, DWPVP30XHJ0000176

NOTE:

THIS PARTS PAGE SUPERSEDES OLD #ID0396589

HYDRAULICS

GROUND DRIVE HYDRAULICS C12X



GROUND DRIVE HYDRAULICS

C12X

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-2925	1	TANK STRAINER (100MESH -16HB)	
2	159-386	1	FILTER HEAD (12SF-12SF)	
3	150-4388	1	HYDRAULIC FILTER - 10 MICRON	
4	150-2560	1	TEE (12S-12H90-12H90)	
5	155-174	1	S/O COUPLER (12S-12H90)	
6	150-4290	34	BULK E-Z FORM HOSE (3/4)	SEE FOOTNOTE 1
7	110-353	5	WORM CLAMP (3/4" TO 1-1/2")	
8	154-233	8	CONNECTOR (08S-080)	
9	154-227	1	CONNECTOR (060-08S90)	
10	150-4559	4	CONNECTOR (-08S-08ORF)	
11	150-4558	2	VALVE BLOCK - P.O. CHECK	
12	105-1937	8	BOLT (1/2-NC X 2-1/2", GD8)	
13	106-743	8	WASHER (.531", HARDENED)	
14	154-188	1	S/O COUPLER (16S-16H90)	
15	150-4291	5	BULK E-Z FORM HOSE (1")	
16	154-322	4	CONNECTOR (080-10S90)	
17	105-2499	2	WORM CLAMP (3/4" TO 1-3/4)	
18	154-345	1	RUN TEE (06S-060-060)	
19	159-157	1	QDC ADAPTER (02-060F)	
20	105-052	2	BOLT (3/8-NC X 1-1/4")	
21	105-072	2	LOCK WASHER (3/8")	
22	117-416	1	ABRASION SLEEVE (1.00" X 50")	
23	150-3844	1	FLOW CHECK (08S-080)	
24	154-235	1	CONNECTOR (08S-08090)	
25	117-718	4	ABRASION SLEEVE (1.0" X 36")	
26	150-4152	1	DOUBLE GEAR PUMP (6.6 CC/1.6 CC)	
27	150-4904	2	HYDRAULIC MOTOR (38.0 CID)	
28	150-2590	1	HARDLINE (-08)	
29	157-443	1	HOSE (060FX45-50"-3000)	
30	150-4639	1	HOSE (080FX90L-36"-3000)	
31	150-4639	1	HOSE (080FX90L-36"-3000)	
32	150-4639	1	HOSE (080FX90L-36"-3000)	
33	150-4639	1	HOSE (080FX90L-36"-3000)	
34	150-4926	1	HYDRAULIC VALVE SD6 - 3 SECTION	RELIEF VALVE SETTING 2500 PSI. SEE FOOTNOTE 2

NOT SHOWN:

FOOTNOTES:

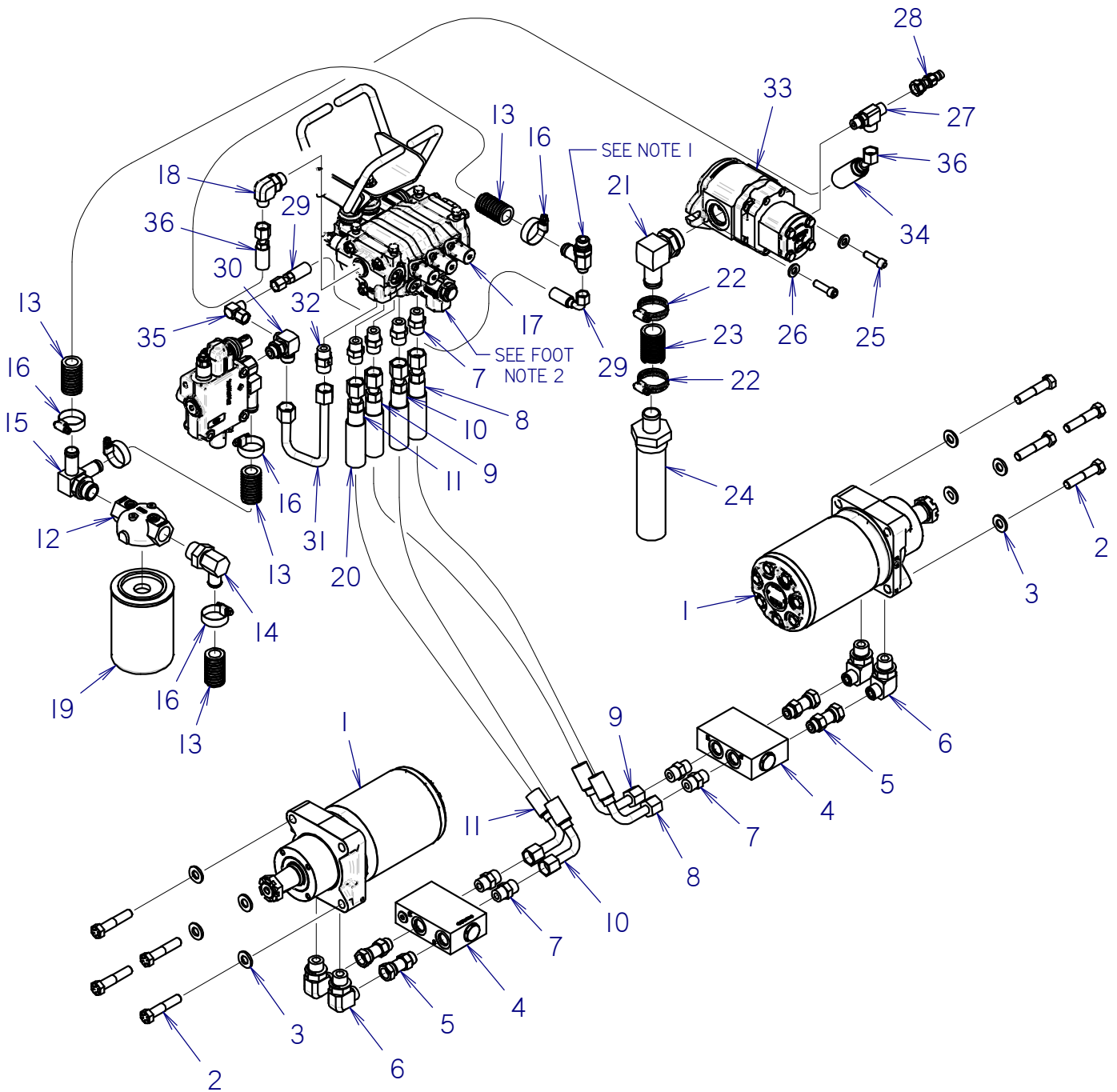
- 25" TO GROUND DRIVE VALVE, 9" TO ATTACHMENT.
- USE LEVER BOX GASKET SEAL 500-2371; P.O. CHECK 500-1046.

NOTE:

- 150-4899 S/O COUPLER (08S-12H90) AND 154-296 CAP (040F).

GROUND DRIVE HYDRAULICS

C16X BEGINS WITH S/N: XXXXX



GROUND DRIVE HYDRAULICS

C16X BEGINS WITH S/N: XXXXX

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-4284	2	HYDRAULIC MOTOR (48.0 CID)	
2	105-1937	8	BOLT (1/2-NC X 2-1/2", GD8)	
3	106-743	8	WASHER (.531", HARDENED)	
4	150-4558	2	VALVE BLOCK - P.O. CHECK	
5	150-4559	4	CONNECTOR (08S-08ORF)	
6	154-322	4	CONNECTOR (080-10S90)	
7	154-233	8	CONNECTOR (08S-080)	
8	150-4639	1	HOSE (080FX90L-36"-3000)	
9	150-4639	1	HOSE (080FX90L-36"-3000)	
10	150-4639	1	HOSE (080FX90L-36"-3000)	
11	150-4639	1	HOSE (080FX90L-36"-3000)	
12	159-386	1	FILTER HEAD (12SF-12SF)	
13	150-4290	34	BULK E-Z FORM HOSE (3/4)	SEE FOOTNOTE 1
14	155-174	1	S/O COUPLER (12S-12H90)	
15	150-2560	1	TEE (12S-12H90-12H90)	
16	110-353	5	WORM CLAMP (3/4" TO 1-1/2")	
17	150-4926	1	HYDRAULIC VALVE SD6 - 3 SECTION	RELIEF VALVE SETTING 2500 PSI. SEE FOOTNOTE 2
18	154-227	1	CONNECTOR (060-08S90)	
19	150-4388	1	HYDRAULIC FILTER - 10 MICRON	
20	117-718	4	ABRASION SLEEVE (1" X 36")	
21	154-188	1	S/O COUPLER (16S-16H90)	
22	105-2499	2	WORM CLAMP (3/4" TO 1-3/4)	
23	150-4291	6	BULK E-Z FORM HOSE (1")	5-3/4" LENGTH
24	150-2925	1	TANK STRAINER (100MESH -16HB)	
25	105-757	2	BOLT (3/8-NC X 1-1/4", SOC, GD8, ZP)	USE LOCTITE 242 OR EQUIVALENT. TORQUE TO 44 FT-LB.
26	106-396	2	WASHER (M10, HARDENED)	
27	154-345	1	RUN TEE (06S-060-060)	
28	159-157	1	QDC ADAPTER (02-060F)	
29	515-148	1	HOSE (040FX90-10"-3000)	
30	150-4901	1	CONNECTOR (08S-080-04090)	
31	150-2590	1	HARDLINE (1-08)	
32	150-3844	1	FLOW CHECK (08S-080)	
33	150-5632	1	DOUBLE GEAR PUMP (11.2 CC/3.3 CC)	
34	117-416	1	ABRASION SLEEVE (1.00" X 50")	
35	150-4902	1	UNION (040-040FX90-.063,ORF)	
36	157-443	1	HOSE (060FX45-50"-3000)	

NOT SHOWN:

FOOTNOTES:

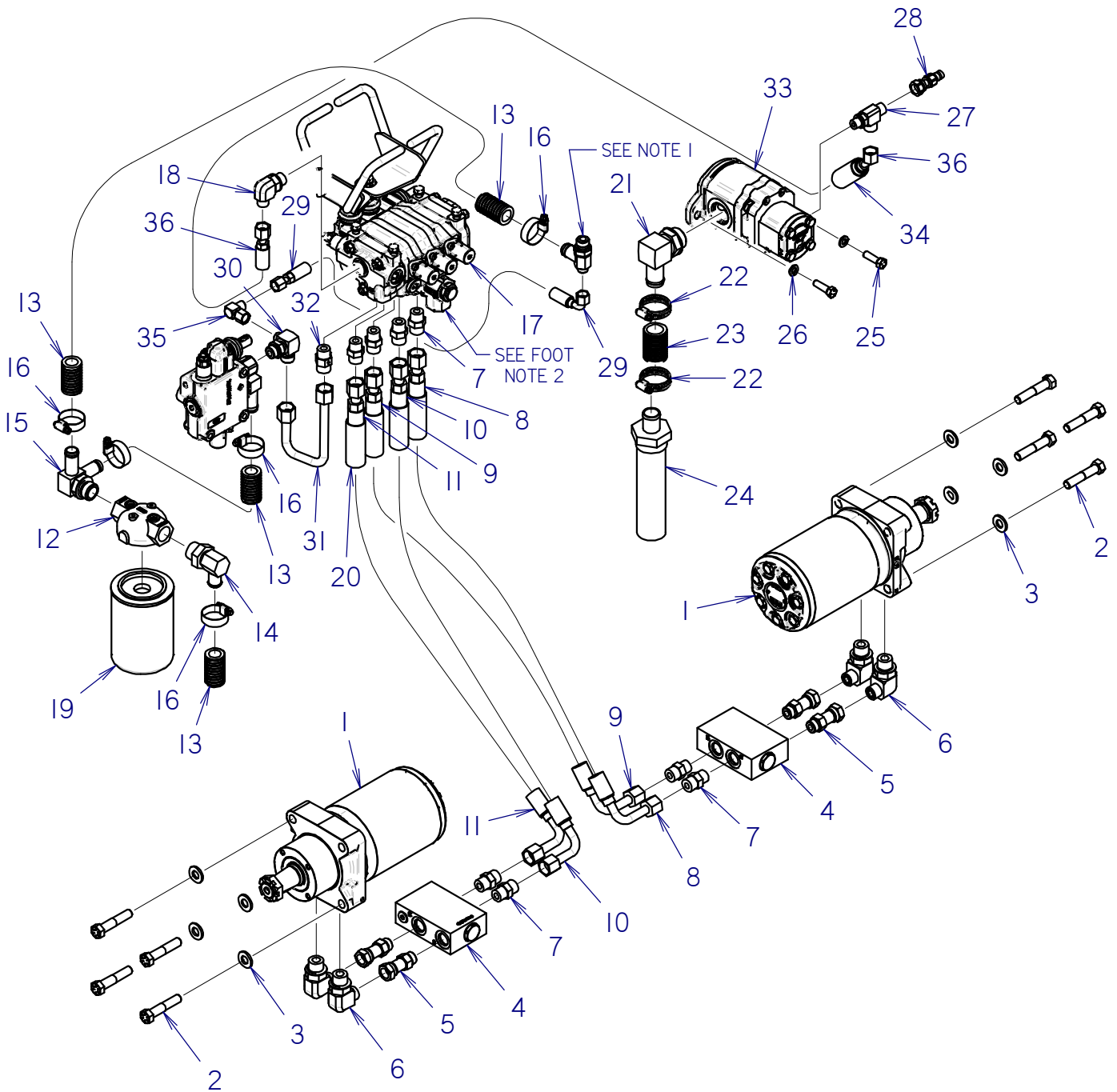
- 25" TO GROUND DRIVE VALVE, 9" TO ATTACHMENT
- USE LEVER BOX GASKET SEAL 500-3271; P.O. CHECK 500-1046

NOTE:

- RETURN FITTING 150-4899

GROUND DRIVE HYDRAULICS

C16X BEGINS WITH S/N: DWPC16XALH0000506
C16X ENDS WITH S/N: XXXXX



GROUND DRIVE HYDRAULICS
C16X BEGINS WITH S/N: DWPC16XALH0000506
C16X ENDS WITH S/N: XXXXX

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-4284	2	HYDRAULIC MOTOR (48.0 CID)	
2	105-1937	8	BOLT (1/2-NC X 2-1/2", GD8)	
3	106-743	8	WASHER (.531", HARDENED)	
4	150-4558	2	VALVE BLOCK - P.O. CHECK	
5	150-4559	4	CONNECTOR (08S-08ORF)	
6	154-322	4	CONNECTOR (080-10S90)	
7	154-233	8	CONNECTOR (08S-080)	
8	150-4639	1	HOSE (080FX90L-36"-3000)	
9	150-4639	1	HOSE (080FX90L-36"-3000)	
10	150-4639	1	HOSE (080FX90L-36"-3000)	
11	150-4639	1	HOSE (080FX90L-36"-3000)	
12	159-386	1	FILTER HEAD (12SF-12SF)	
13	150-4290	34	BULK E-Z FORM HOSE (3/4)	SEE FOOTNOTE 1
14	155-174	1	S/O COUPLER (12S-12H90)	
15	150-2560	1	TEE (12S-12H90-12H90)	
16	110-353	5	WORM CLAMP (3/4" TO 1-1/2")	
17	150-4926	1	HYDRAULIC VALVE SD6 - 3 SECTION	RELIEF VALVE SETTING 2500 PSI. SEE FOOTNOTE 2
18	154-227	1	CONNECTOR (060-08S90)	
19	150-4388	1	HYDRAULIC FILTER - 10 MICRON	
20	117-718	4	ABRASION SLEEVE (1" X 36")	
21	154-188	1	S/O COUPLER (16S-16H90)	
22	105-2499	2	WORM CLAMP (3/4" TO 1-3/4)	
23	150-4291	6	BULK E-Z FORM HOSE (1")	5-3/4" LENGTH
24	150-2925	1	TANK STRAINER (100MESH -16HB)	
25	105-052	2	BOLT (3/8-NC X 1-1/4")	TORQUE TO 31 FT-LB.
26	105-072	2	LOCK WASHER (3/8")	
27	154-345	1	RUN TEE (06S-060-060)	
28	159-157	1	QDC ADAPTER (02-060F)	
29	515-148	1	HOSE (040FX90-10"-3000)	
30	150-4901	1	CONNECTOR (08S-080-04090)	
31	150-2590	1	HARDLINE (1-08)	
32	150-3844	1	FLOW CHECK (08S-080)	
33	150-4151	1	DOUBLE GEAR PUMP (11.2 CC/3.3 CC)	SUPERSEDED BY 150-5632. SEE FOOTNOTE 3
34	117-416	1	ABRASION SLEEVE (1.00" X 50")	
35	150-4902	1	UNION (040-040FX90-.063,ORF)	
36	157-443	1	HOSE (060FX45-50"-3000)	

NOT SHOWN:

FOOTNOTES:

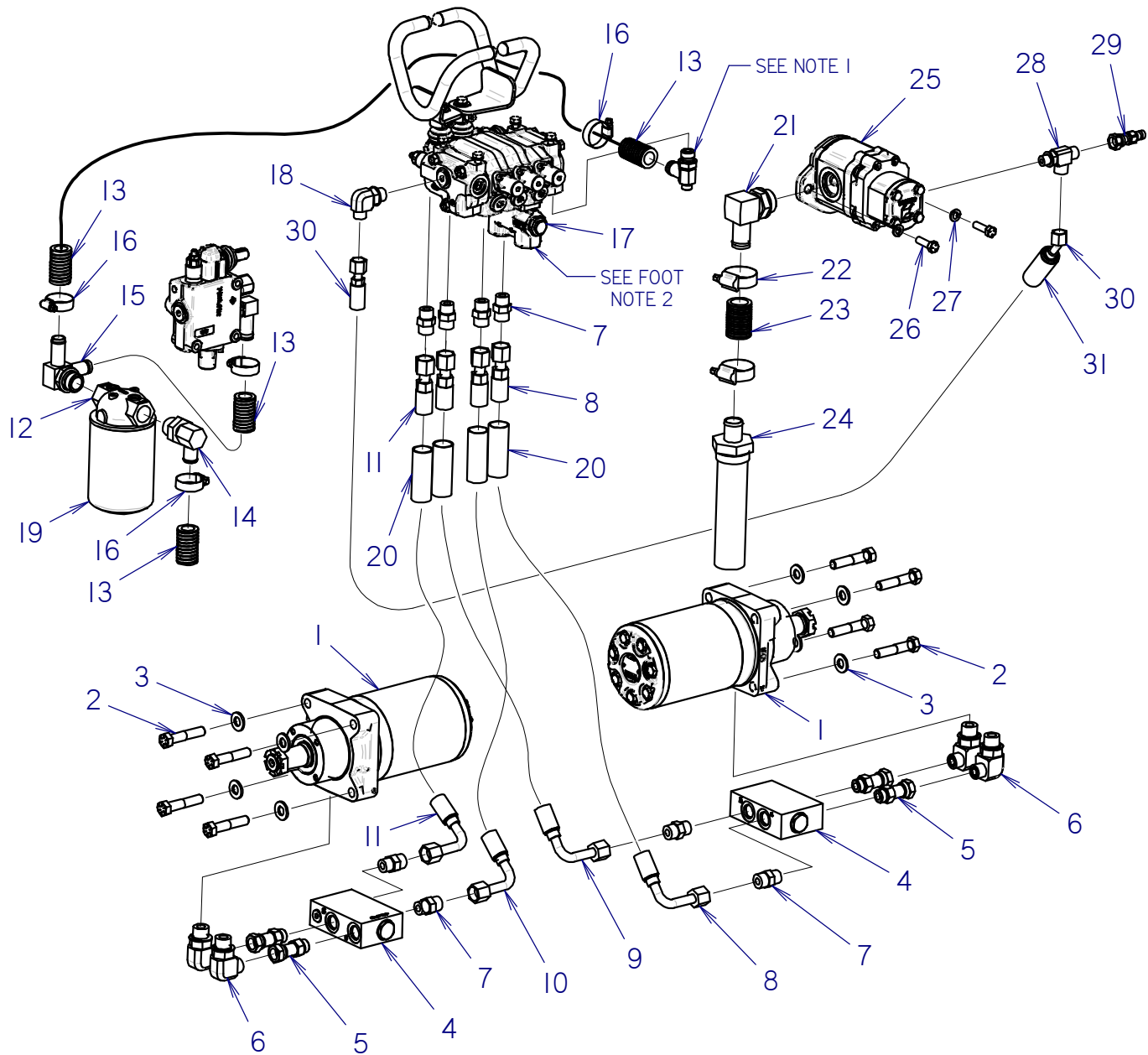
1. 25" TO GROUND DRIVE VALVE, 9" TO ATTACHMENT
2. USE LEVER BOX GASKET SEAL 500-3271; P.O. CHECK 500-1046
3. WHEN REPLACING 150-4151 WITH 150-5632 ALSO REPLACE MOUNTING HARDWARE WITH 2X 105-757 BOLT (3/8-NC X 1-1/4", SOCI) AND 2X 106-396 WASHER (M10, HARDENED). USE LOCTITE 242 OR EQUIVALENT WHEN REPLACING 2X 105-757, ALSO TORQUE TO 44 FT-LB.

NOTE:

1. RETURN FITTING 150-4899

GROUND DRIVE HYDRAULICS

C16X ENDS WITH S/N: DWPC16XALH0000505



GROUND DRIVE HYDRAULICS

C16X ENDS WITH S/N: DWPC16XALH0000505

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-4284	2	HYDRAULIC MOTOR (48.0 CID)	
2	105-1937	8	BOLT (1/2-NC X 2-1/2", GD8)	
3	106-743	8	WASHER (.531", HARDENED)	
4	150-4558	2	VALVE BLOCK - P.O. CHECK	
5	150-4559	4	CONNECTOR (08S-080RF)	
6	154-322	4	CONNECTOR (080-10S90)	
7	154-233	8	CONNECTOR (08S-080)	
8	150-4639	1	HOSE (080FX90L-36"-3000)	
9	150-4639	1	HOSE (080FX90L-36"-3000)	
10	150-4639	1	HOSE (080FX90L-36"-3000)	
11	150-4639	1	HOSE (080FX90L-36"-3000)	
12	159-386	1	FILTER HEAD (12SF-12SF)	
13	150-4290	34	BULK E-Z FORM HOSE (3/4)	SEE FOOTNOTE 1
14	155-174	1	S/O COUPLER (12S-12H90)	
15	150-2560	1	TEE (12S-12H90-12H90)	
16	110-353	4	WORM CLAMP (3/4" TO 1-1/2")	
17	150-4926	1	HYDRAULIC VALVE SD6 - 3 SECTION	RELIEF VALVE SETTING 2000 PSI. SEE FOOTNOTE 2
18	154-227	1	CONNECTOR (060-08S90)	
19	150-4388	1	HYDRAULIC FILTER - 10 MICRON	
20	117-718	4	ABRASION SLEEVE (1" X 36")	
21	154-188	1	S/O COUPLER (16S-16H90)	
22	111-011	2	WORM CLAMP (1" TO 1-3/4")	
23	150-4291	5	BULK E-Z FORM HOSE (1")	8" LENGTH
24	150-2925	1	TANK STRAINER (100MESH -16HB)	
25	150-4287	1	DOUBLE GEAR PUMP (11.2 CC/1.6 CC)	
26	105-052	2	BOLT (3/8-NC X 1-1/4")	
27	105-072	2	LOCK WASHER (3/8")	
28	154-345	1	RUN TEE (06S-060-060)	
29	159-157	1	QDC ADAPTER (02-060F)	
30	157-443	1	HOSE (060FX45-50"-3000)	
31	117-416	1	ABRASION SLEEVE (1.00" X 50")	

NOT SHOWN:

FOOTNOTES:

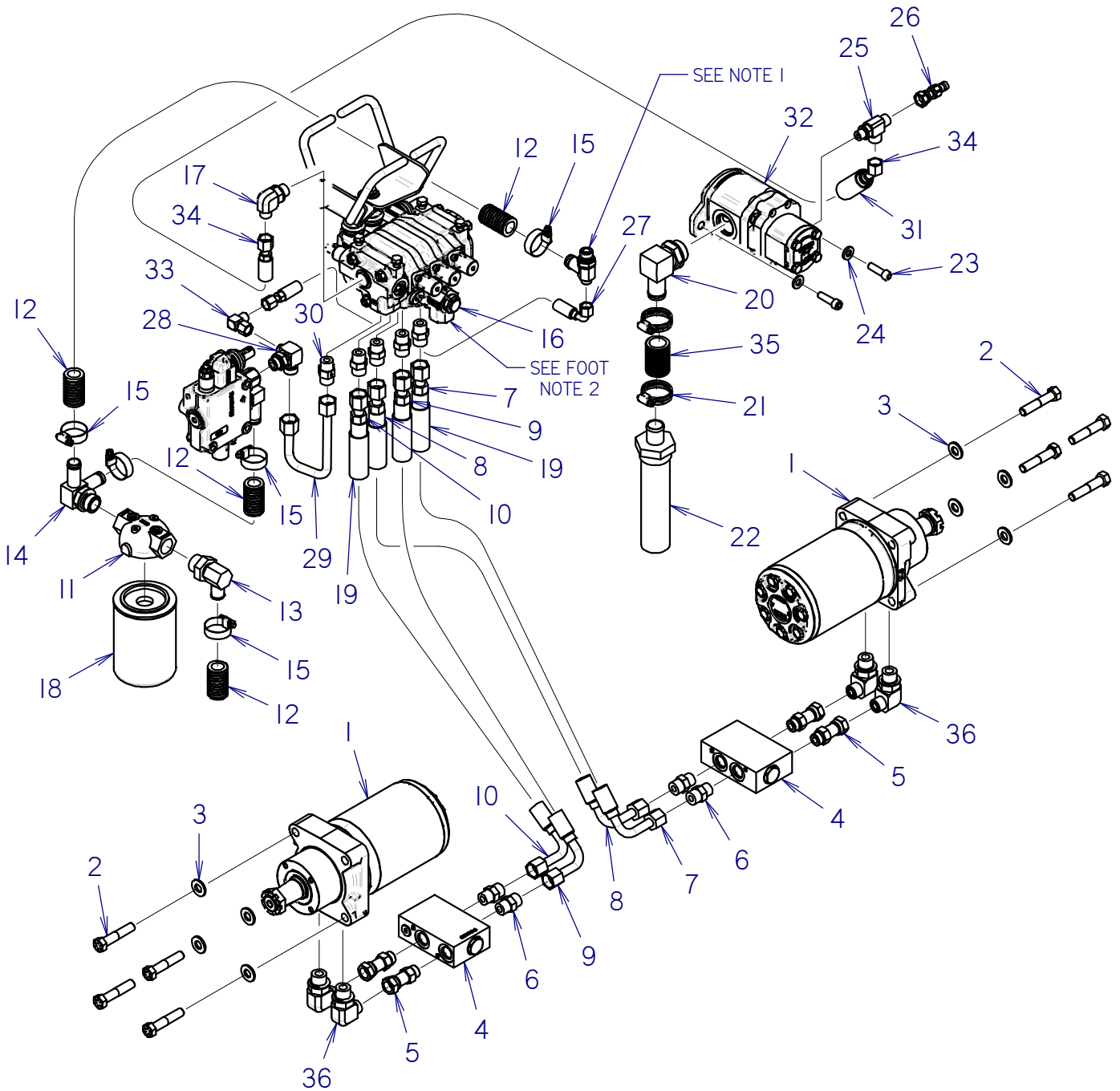
- 25" TO GROUND DRIVE VALVE, 9" TO ATTACHMENT
- USE LEVER BOX GASKET SEAL 500-3271; P.O. CHECK 500-1046

NOTE:

- RETURN FITTING 150-4899

GROUND DRIVE HYDRAULICS

C30X BEGINS WITH S/N: DWPC30XAHH0000188



GROUND DRIVE HYDRAULICS

C30X BEGINS WITH S/N: DWPC30XAHH0000188

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-4284	2	HYDRAULIC MOTOR (48.0 CID)	
2	105-1937	8	BOLT (1/2-NC X 2-1/2", GD8)	
3	106-743	8	WASHER (.531", HARDENED)	
4	150-4558	2	VALVE BLOCK - P.O. CHECK	
5	150-4559	4	CONNECTOR (-08S-08ORF)	
6	154-233	8	CONNECTOR (08S-08O)	
7	150-4639	1	HOSE (080FX90L-36"-3000)	
8	150-4639	1	HOSE (080FX90L-36"-3000)	
9	150-4639	1	HOSE (080FX90L-36"-3000)	
10	150-4639	1	HOSE (080FX90L-36"-3000)	
11	159-386	1	FILTER HEAD (12SF-12SF)	
12	150-4290	34	BULK E-Z FORM HOSE (3/4)	SEE FOOTNOTE 1
13	155-174	1	S/O COUPLER (12S-12H90)	
14	150-2560	1	TEE (12S-12H90-12H90)	
15	110-353	5	WORM CLAMP (3/4" TO 1-1/2")	
16	150-4926	1	HYDRAULIC VALVE SD6 - 3 SECTION	RELIEF VALVE SETTING 2500 PSI. SEE FOOTNOTE 2
17	154-227	1	CONNECTOR (060-08S90)	
18	150-4388	1	HYDRAULIC FILTER - 10 MICRON	
19	117-718	4	ABRASION SLEEVE (1" X 3/6")	
20	154-188	1	S/O COUPLER (16S-16H90)	
21	105-2499	2	WORM CLAMP (3/4" TO 1-3/4)	
22	150-2925	1	TANK STRAINER (100MESH -16HB)	
23	105-757	2	BOLT (3/8-NC X 1-1/4", SOC, GD8, ZPI)	USE LOCTITE 242 OR EQUIVALENT. TORQUE TO 44 FT-LB.
24	106-396	2	WASHER (M10, HARDENED)	
25	154-345	1	RUN TEE (06S-06O-06O)	
26	159-157	1	QDC ADAPTER (02-060F)	
27	515-148	1	HOSE (040FX90-10"-3000)	
28	150-4901	1	CONNECTOR (08S-08O-04090)	
29	150-2590	1	HARDLINE (-08)	
30	150-3844	1	FLOW CHECK (08S-08O)	
31	117-416	1	ABRASION SLEEVE (1.00" X 50")	
32	150-2575	1	DOUBLE GEAR PUMP (14 CC/3.15 CC)	
33	150-4902	1	UNION (040-040FX90-.063,ORF)	
34	157-443	1	HOSE (060FX45-50"-3000)	
35	150-4291	6	BULK E-Z FORM HOSE (1")	6" LENGTH
36	154-322	4	CONNECTOR (080-10S90)	

NOT SHOWN:

FOOTNOTES:

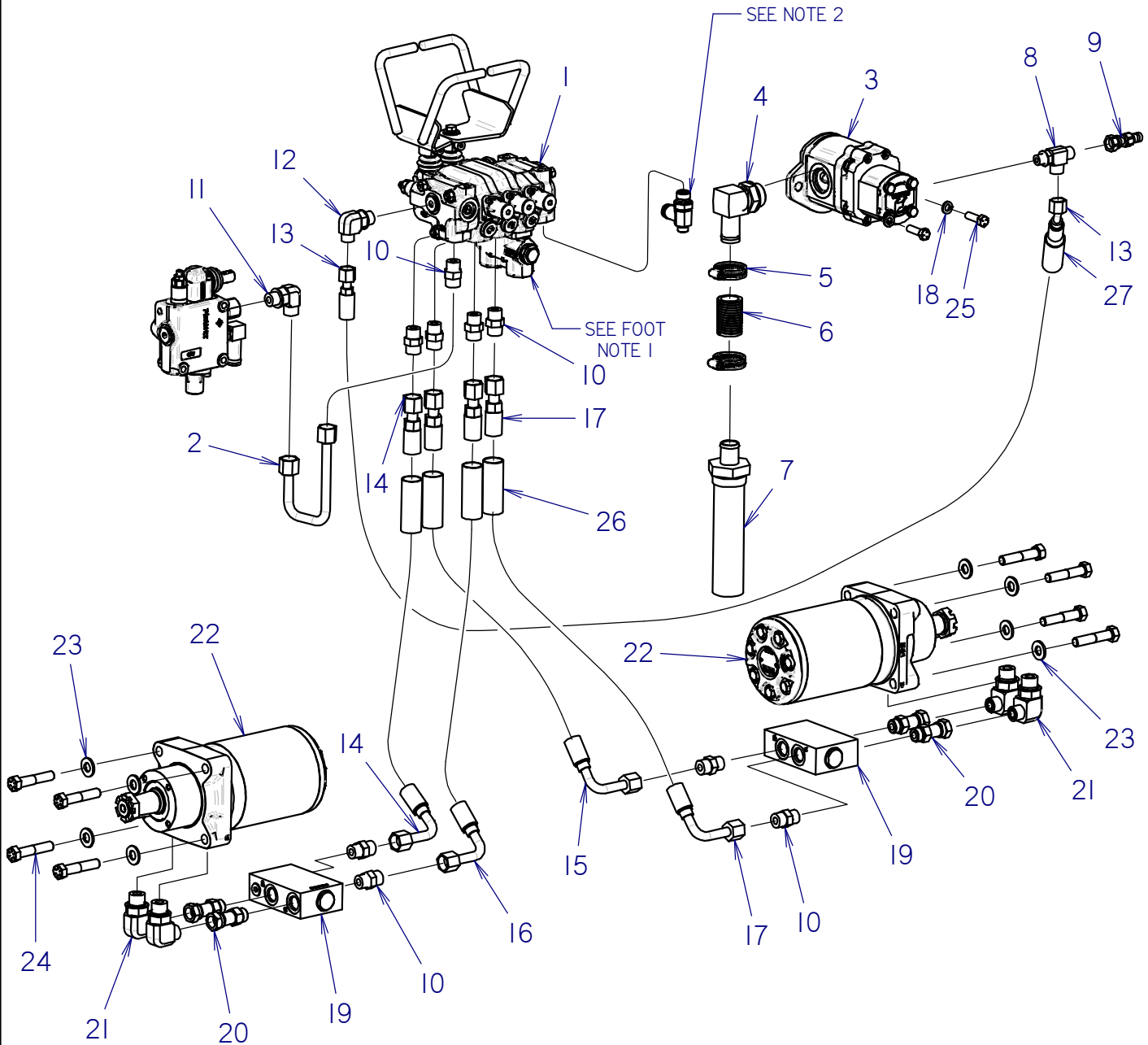
1. 25" TO GROUND DRIVE VALVE, 9" TO ATTACHMENT.
2. USE LEVER BOX GASKET SEAL 500-3271; P.O. CHECK 500-1046

NOTE:

1. RETURN FITTING 150-4899

GROUND DRIVE HYDRAULICS

C24X AND C30X
C30X ENDS WITH S/N:DWPC30XAHH0000187



GROUND DRIVE HYDRAULICS

C24X AND C30X

C30X ENDS WITH S/N:DWPC30XAHH0000187

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-4926	1	HYDRAULIC VALVE SD6 - 3 SECTION	RELIEF VALVE SETTING 2500 PSI. SEE FOOTNOTE 1
2	150-2590	1	HARDLINE (1-08)	
3	150-4151	1	DOUBLE GEAR PUMP (11.2 CC/3.3 CC)	SUPERSEDED BY 150-5632. SEE FOOTNOTE 2
4	154-188	1	S/O COUPLER (16S-16H90)	
5	105-2499	2	WORM CLAMP (3/4" TO 1-3/4)	
6	150-4291	6	BULK E-Z FORM HOSE (1")	5-3/4" LENGTH
7	150-2925	1	TANK STRAINER (100MESH -16HB)	
8	154-345	1	RUN TEE (06S-060-060)	
9	159-157	1	QDC ADAPTER (02-060F)	
10	154-233	9	CONNECTOR (08S-080)	
11	154-235	1	CONNECTOR (08S-08090)	
12	154-227	1	CONNECTOR (060-08S90)	
13	157-443	1	HOSE (060FX45-50"-3000)	
14	150-4639	1	HOSE (080FX90L-36"-3000)	
15	150-4639	1	HOSE (080FX90L-36"-3000)	
16	150-4639	1	HOSE (080FX90L-36"-3000)	
17	150-4639	1	HOSE (080FX90L-36"-3000)	
18	105-072	2	LOCK WASHER (3/8")	
19	150-4558	2	VALVE BLOCK - P.O. CHECK	
20	150-4559	4	CONNECTOR (1-08S-080RF)	
21	154-322	4	CONNECTOR (080-10S90)	
22	150-4284	2	HYDRAULIC MOTOR (48.0 CID)	
23	106-743	8	WASHER (.531", HARDENED)	
24	105-1937	8	BOLT (1/2-NC X 2-1/2", GD8)	
25	105-052	2	BOLT (3/8-NC X 1-1/4")	TORQUE TO 31 FT-LB
26	117-718	4	ABRASION SLEEVE (1" X 36")	
27	117-416	1	ABRASION SLEEVE (1.00" X 50")	

NOT SHOWN:

FOOTNOTES:

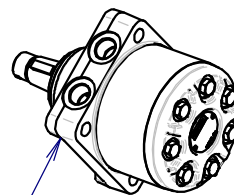
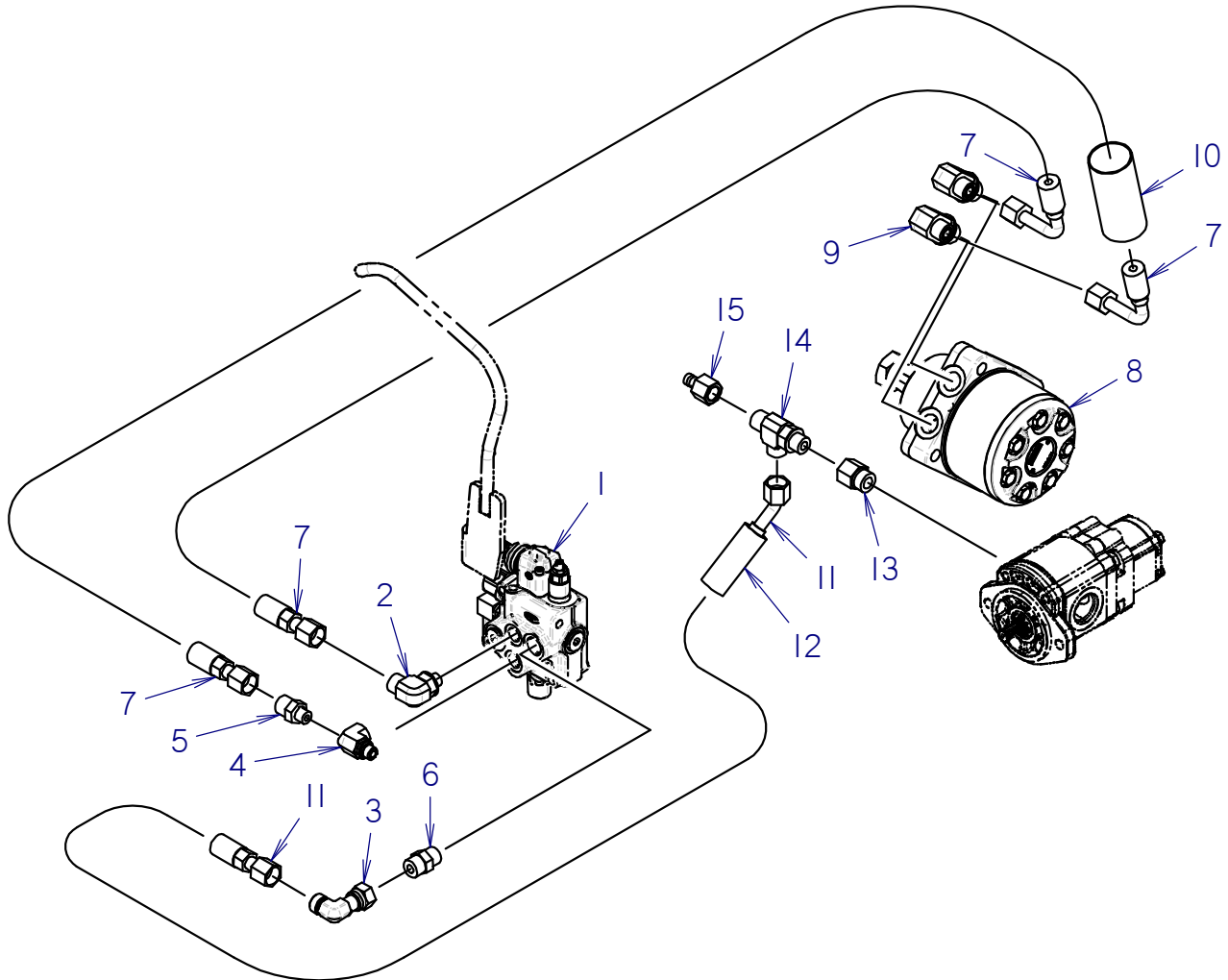
1. USE LEVER BOX GASKET SEAL 500-3271; P.O. CHECK 500-1046
2. WHEN REPLACING 150-4151 WITH 150-5632 ALSO REPLACE MOUNTING HARDWARE WITH 2X 105-757 BOLT (3/8-NC X 1-1/4", SOCI) AND 2X 106-396 WASHER (M10, HARDENED). USE LOCTITE 242 OR EQUIVALENT WHEN REPLACING 2X 105-757, ALSO TORQUE TO 44 FT-LB.

NOTE:

1. THIS PARTS PAGE SUPERSEDES OLD#ID0399746
2. RETURN FITTING 150-4899

ATTACHMENT DRIVE

C12X/ C16X/ C24X/ C30X



ATTACHMENT DRIVE

C12X/ C16X/ C24X/ C30X

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-2547	1	HYDRAULIC DCV SD5 (1-SPPOOL)	RELIEF VALVE SETTING 3500 PSI
2	154-253	1	CONNECTOR (06S-08090)	
3	154-256	1	UNION (080-080FX90)	
4	154-460	1	CONNECTOR (06S-06SF90)	
5	154-246	1	CONNECTOR (06S-080)	
6	154-233	1	CONNECTOR (08S-080)	
7	150-4951	2	HOSE (080FX90L-96"-4000)	
8	150-4057	1	HYD MOTOR (195 CC)	C16X, C24X, C30X ONLY. SEE FOOTNOTE 1 FOR C12X
9	154-322	2	CONNECTOR (080-10S90)	
10	105-2239	1	ABRASION SLEEVE (1.75" X 93")	
11	150-4657	1	HOSE (080FX45-53"-3000)	
12	117-218	1	ABRASION SLEEVE (1" X 52")	
13	155-193	1	REDUCER (10S-08SF)	
14	154-299	1	RUN TEE (08S-080-080)	
15	159-158	1	QDC ADAPTER (02-080FX)	

NOT SHOWN:

FOOTNOTES:

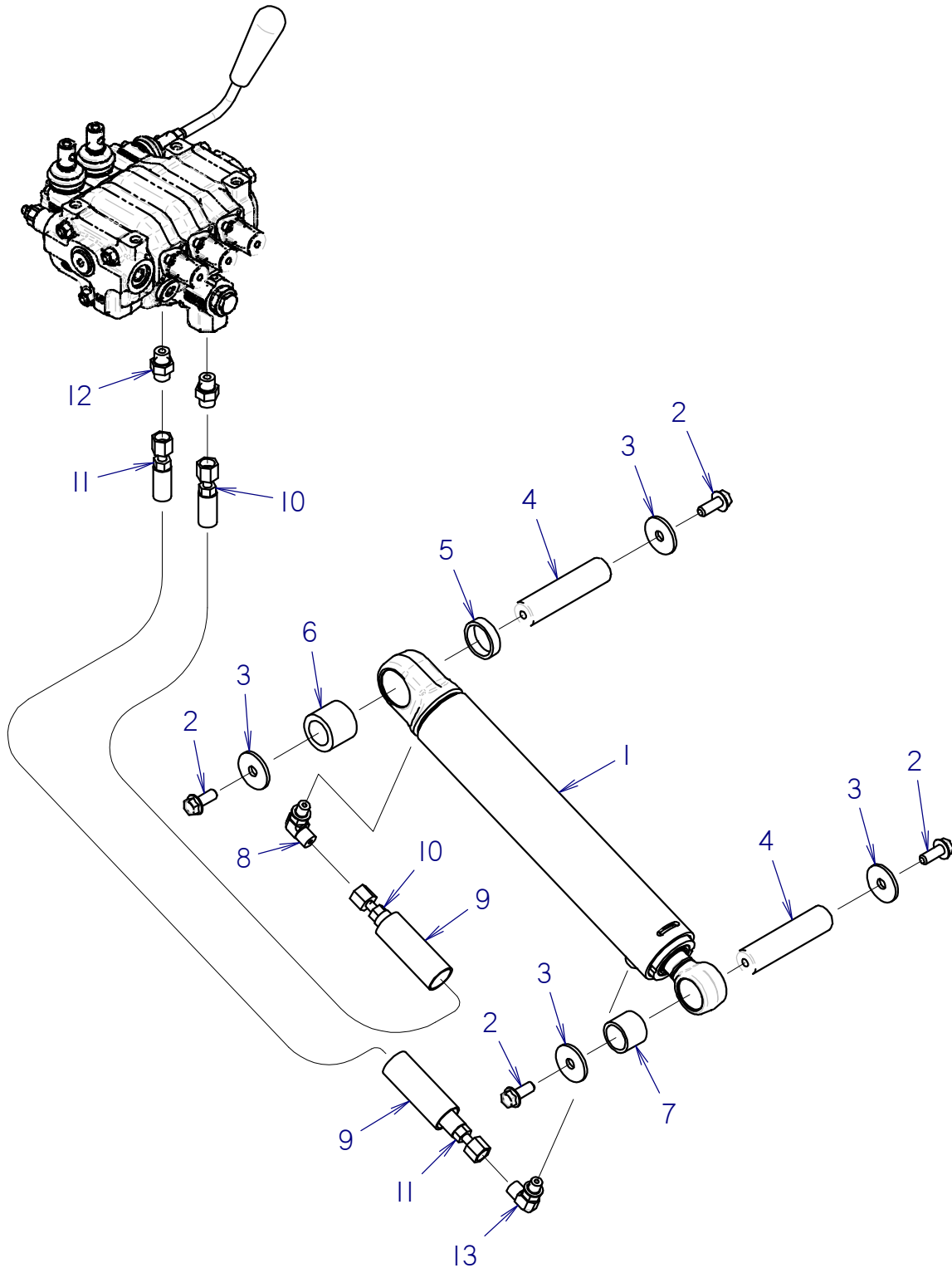
1. FASTER OPTION FOR C16X, C24X, & C30X AVAILABLE 150-4387 (140 CC). USE 150-4387 FOR C12X.

NOTE:

THIS PARTS PAGE SUPERSEDES OLD #ID0401830.

ATTACHMENT LIFT

C12X / C16X / C24X / C30X / VP30



ATTACHMENT LIFT

C12X / C16X / C24X / C30X / VP30

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	151-076	1	CYL (2.0 X 1.0 X 10.0)	
2	105-826	4	FLG LK BOLT (3/8-NC X 1")	USE LOCTITE 242
3	105-2111	4	WASHER ZP (.406 X 1.50 X .125)	
4	301-7051	2	PIN (1" X 4.125")	
5	362-2096	1	SPACER (1.25 ID X .38)	
6	125-800	1	COMPOSITION BUSHING (1")	
7	125-770	1	COMPOSITION BUSHING (1.000")	
8	154-252	1	CONNECTOR (04S-04090)	
9	117-693	2	ABRASION SLEEVE (1.00" X 60")	
10	150-4641	1	HOSE (040FX-61"-3000)	
11	150-4641	1	HOSE (040FX-61"-3000)	
12	154-220	2	CONNECTOR (040-06S)	
13	156-967	1	CONNECTOR (04S-04090,ORF)	SEE FOOTNOTE 1

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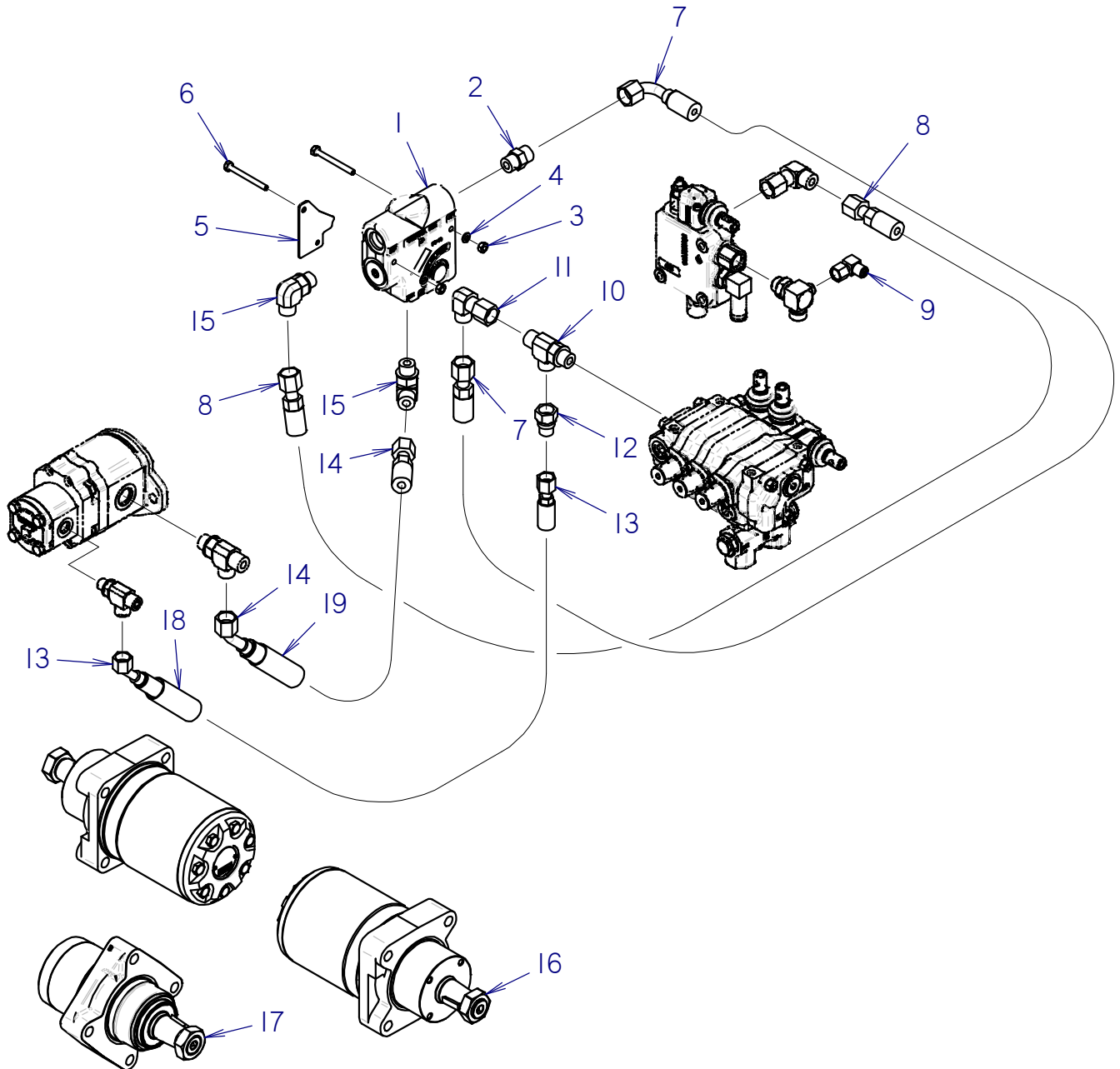
FOOTNOTES:

1. REF. #13, 156-967 IS USED ON C16X ONLY. C24X, C30X AND VP30 USE 154-401.

NOTE:

VARIABLE SPEED DRIVE OPTION

C16X / C24X / C30X



VARIABLE SPEED DRIVE OPTION

C16X / C24X / C30X

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-4508	1	FLOW CONTROL VALVE	
2	154-233	1	CONNECTOR (08S-080)	
3	105-078	2	NUT (1/4-NC)	
4	105-079	2	LOCK WASHER (1/4)	
5	302-5293	1	PLATE - STOP	SUNBELT 333-1088
6	105-224	2	BOLT (1/4-NC X 2-1/2")	
7	150-5184	1	HOSE (080FX90S-46"-3000)	
8	150-5183	1	HOSE (080FX90S-38"-3000)	
9	150-5272	1	UNION (040-040FX90-.086,ORF)	
10	154-299	2	RUN TEE (08S-080-080)	
11	154-256	2	UNION (080-080FX90)	
12	154-262	1	REDUCER (060-080F)	
13	157-443	1	HOSE (060FX45-50"-3000)	
14	150-4657	1	HOSE (080FX45-53"-3000)	
15	154-235	2	CONNECTOR (08S-08090)	
16	150-5182	2	HYDRAULIC MOTOR TG (32.3 CID)	
17	150-4286	1	HYDRAULIC MOTOR (98 CC)	
18	117-416	1	ABRASION SLEEVE (1.00" X 50")	
19	117-218	1	ABRASION SLEEVE (1" X 52")	

NOT SHOWN:

FOOTNOTES:

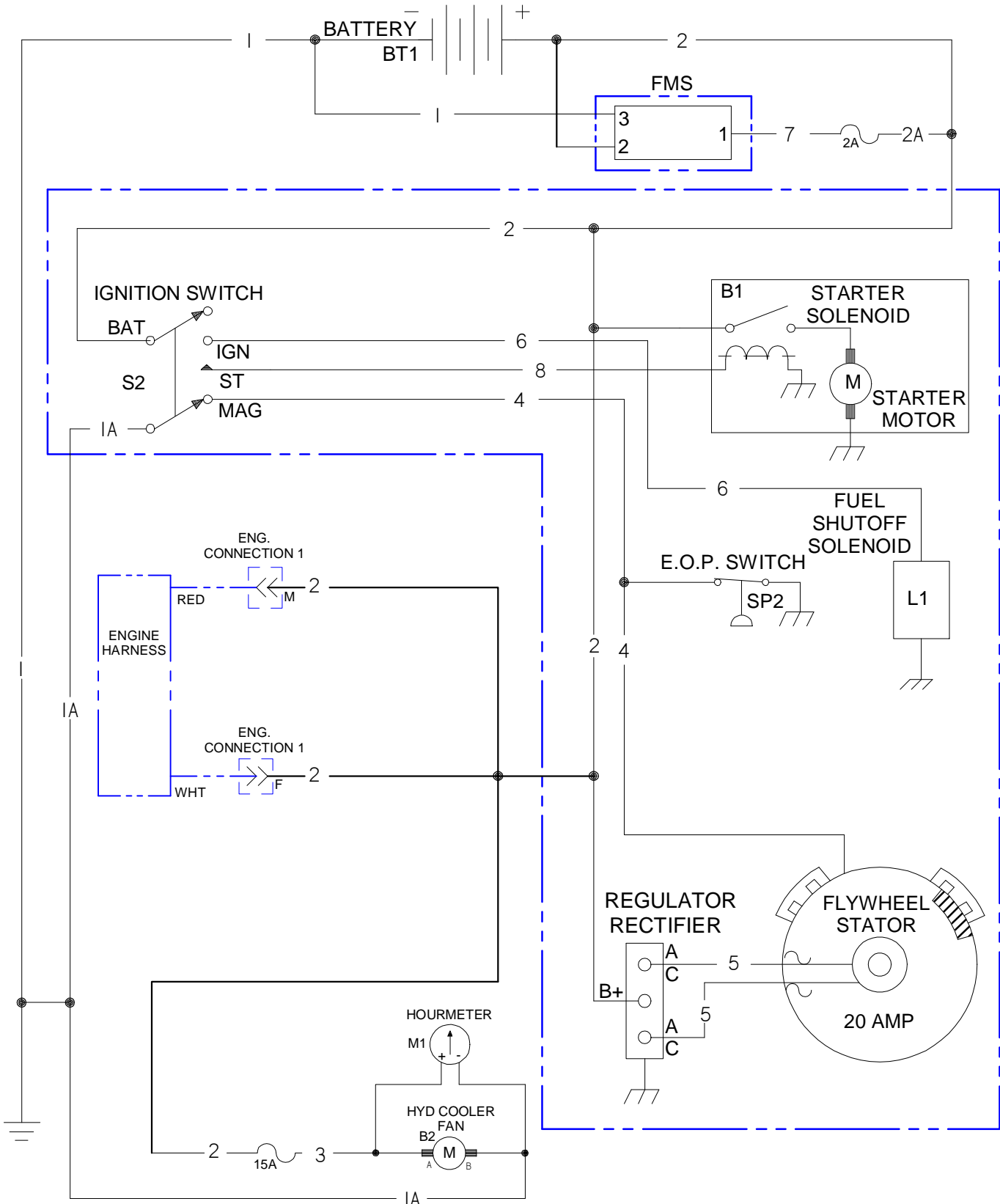
NOTE:

See loose-leaf schematic included with this manual.

ELECTRICAL

ELECTRICAL SCHEMATIC

C16/C16X w/ VANGUARD ELECTRIC START

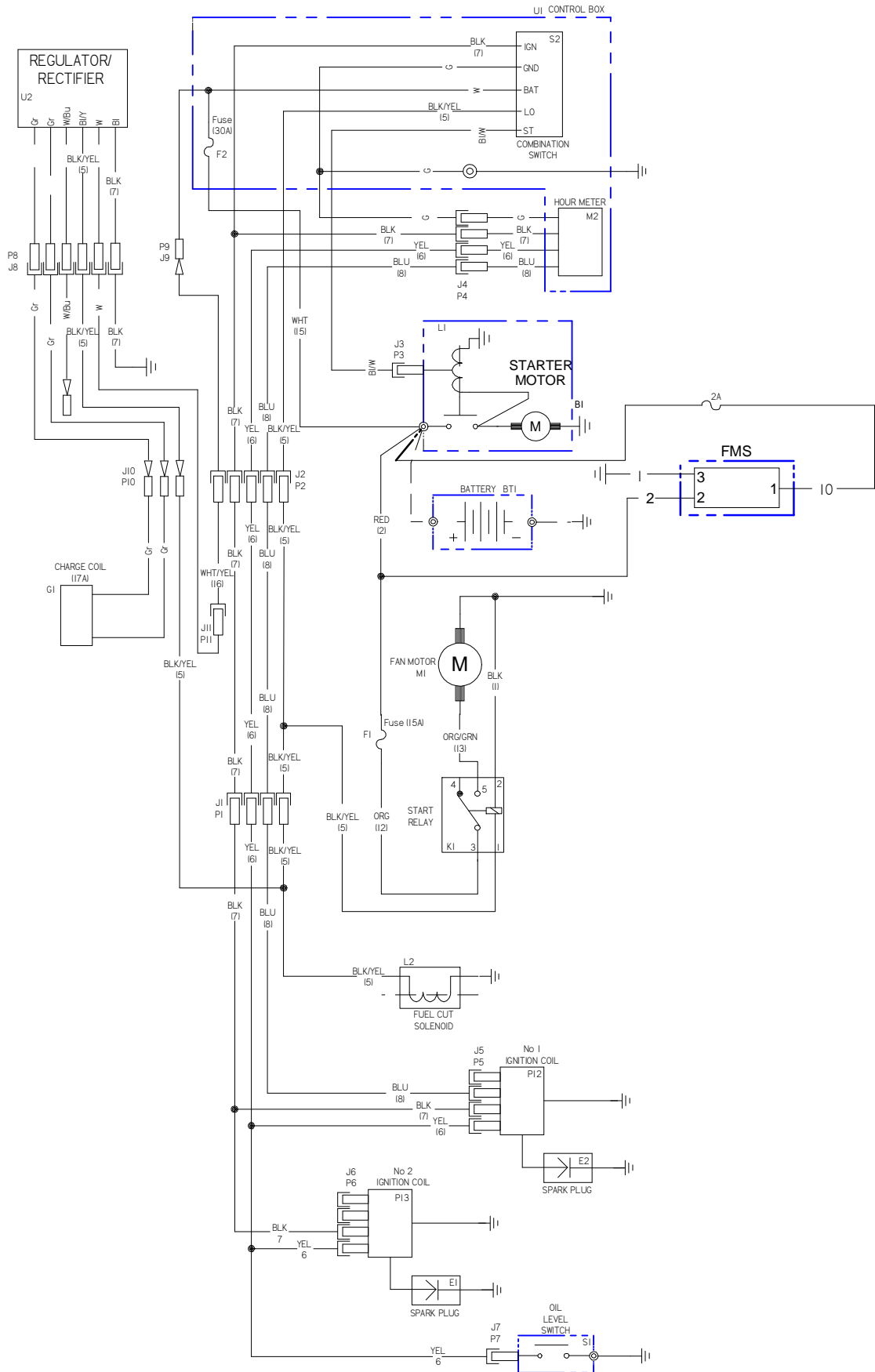


ELECTRICAL SCHEMATIC

C16/C16X w/ VANGUARD ELECTRIC START

CIRCUIT DESCRIPTION			
Circuit Number	Wire Color	Function	
1	blk	System Ground	
2	red	Battery Positive Circuit	
2A	red/wht	From 3amp Fuse to Starter post (+)	
3	red/blu	From 15amp Fuse Holder to Fan	
4	blk	Spark Advance Module to Magneto Ground Circuit	
5	blk	Voltage Regulator To Flywheel Stator	
6	gry	Ignition Circuit to Fuel Shut off	
7	red/wht	GPS Power (1) to Fuse Holder (G)(2amp Fuse)	
8	red	Ign to Solenoid (eng. Side)	
COMPONENT DESCRIPTION			
Ref. Number	Part Number	Component	Notes
B1	n/a	Starter w/ solenoid	Engine Service Part (Current Draw, Amps)
BT1	215-256	Battery	"Interstate" 12v, SP30, 250 CCA, 310 CA
F1	211-271	GPS Fuse	FUSE(ATC, 3 amp)
F2	217-811	Hyd. Fan Fuse	FUSE(ATC, 15 amp)
L1	n/a	Fuel shut-off solenoid	Engine Service Part
S2	n/a	Ignition switch	Engine Service Part
SP2	n/a	Engine oil pressure switch	Engine Service Part
WIRING HARNESS			
Ref. No.	Part No.	Quantity	Description
1	215-0071	1	Fan Harness
2	215-0042	1	Neg. Batt. Cable (6ga. X 33", Blk)
3	215-0060	1	Pos. Batt. Cable (6ga. X 36", Red)

ELECTRICAL SCHEMATIC C24X/C24



ELECTRICAL SCHEMATIC

C24X/C24

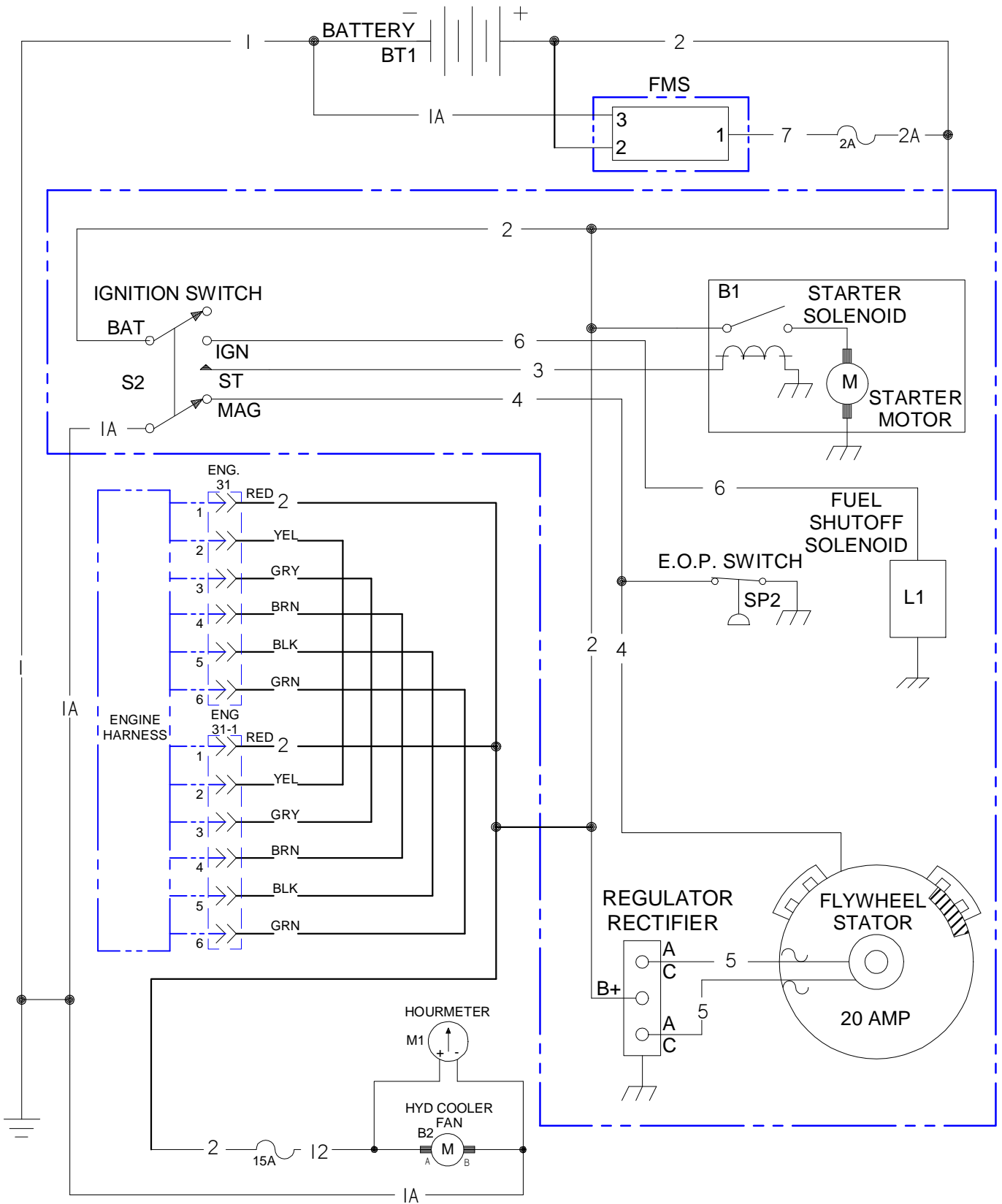
ELECTRICAL COMPONENTS			
Ref. #	Part #	Component	Notes
B1	195-1582	Starter	supplied by Honda
BT1	213-270	Battery	12V, 340 CCA,
E1	see notes	Spark Plug	supplied by Honda
E2	see notes	Spark Plug	supplied by Honda
F1	217-811	Main Fuse	15A ATC
F2	217-813	Control Box Fuse	30A ATC
G1		Charge Coil (17A)	No Service Parts Available
J1	see note	Engine Connection	Extention of Harness
J2	see note	Engine Connection	Extention of Harness
J3	see note	Combination switch to Starter Connection	Extention of Harness
J4	see note	Hourmeter to Main Harness Connection	Extention of Harness
J5		Engine to No.1 Ignition Coil Connection	
J6		Engine to No.2 Ignition Coil Connection	
J7		Engine to Oil Level Switch Connection	
J8		Connection	
J9		Regulator/Rectifier to Battery Connection	
J10		Regulator/Rectifier to Charge Coil Connection	
J11	see note	Regulator/Rectifier to Engine Connection	Extention of Harness
K1		Start Relay	Micro (SPDT)
L1	see note	Starter Solenoid	supplied by Honda
L2	see note	Fuel Solenoid	12V
M1	500-1156	Fan	12V
M2	see note	Hourmeter	supplied by Honda
P1		Engine Connection	Extention of Harness
P2		Engine Connection	Extention of Harness
P3		Combination Switch to Starter Connection	
P4		Hourmeter to Main Harness Connection	
P5		Engine to No.1 Ignition Coil Connection	
P6		Engine to No.2 Ignition Coil Connection	
P7		Engine to Oil Level Switch Connection	
P8		Connection	
P9		Regulator/Rectifier to Battery Connection	
P10		Regulator/Rectifier to Charge Coil Connection	
P11		Regulator/Rectifier to Engine Connection	
P12		No. 1 Ignition Coil Connection	
P13		No.2 Ignition Coil Connection	
S1	see note	Oil Level Switch	Part of Engine
S2	see note	Combonation Switch	Part of Engine
U1	195-1537	Control Box	No Service Parts Available
U2	215-1328	Regulator/Rectifier	Supplied by Honda

ELECTRICAL SCHEMATIC

C24X/C24

ELECTRICAL CIRCUITS			
Circuit #	Wire Color	Function	
1	blk	Ground to fan and relay	
2	red	Stater motor to fuse	
On Eng.	gr	Regulator/Rectifier to Charge Coil (Supplied by Honda)	
On Eng.	g	From grnd In(Combination Switch) to Hourmeter	
On Eng.	bl/w	Starter Motor to ST on Combination Switch	
On Eng.	w/bu	Regulator/Rectifier to Pigtail (Supplied by Honda)	
On Eng.	w	Regulator/Rectifier to Bat. in (Combination Switch)	
5	blk/yel	Start relay to fuel cut solenoid	
6	yel	Hourmeter in Control Box to Ignition coils & Oil Level Switch	
7	blk	Ignition in Control Box to Ignition Coils #1, #2	
8	blu	Hourmeter to No.1 Ignition Coil	
12	org	Fuse to Starter Relay	
13	org/grn	Fan motor to Start Relay	
15	wht	From Starter Motor (+) to Bat. On (Combination Switch)	
16	wht/yel	Jumper from Regulator/Rectifier to Bat. in (Combination Switch)	
ELECTRICAL HARNESS			
Ref. #	Part #	Qty.	Description
1	215-0072	1	Fan Harness
2	215-0060	1	Battery Cable (+ Pos., Red 6 Ga. X 33")
3	215-0042	1	Battery Cable (- Neg., Blk 6 Ga. X 36")

ELECTRICAL SCHEMATIC C30X w/ VANGUARD ELECTRIC START



ELECTRICAL SCHEMATIC

C30X w/ VANGUARD ELECTRIC START

Circuit Number	Wire Color	Function
1	blk	System ground
1A	blk/red	Medium current ground
2	red	Battery positive circuit
2A	red/blu	From Fuse Holder (H) to Starter
3	yel	Ignition (Start Circuit) to Starter solenoid)
4	blk	Spark Advance Module to Magneto Ground Circuit & E.O.P. Switch
5	blk	Voltage Regulator to Flywheel Stator
6	gry	Ignition Circuit to Fuel Shut Off
7	red/wht	GPS Power (1) to Fuse Holder (G)
8		
9		
10		
11		
12	org	Fuse Holder (B) to Fan motor (B)

ELECTRICAL SCHEMATIC

C30X w/ VANGUARD ELECTRIC START

COMPONENT DESCRIPTION

Ref. Number	Part Number	Component	Notes
B1	n/a	Starter w/ solenoid	Engine Service Part (Current Draw, Amps)
BT1	215-256	Battery	"Interstate" 12v, SP30, 250 CCA, 310 CA
F1	211-289	GPS Fuse	FUSE(Mini ATC, 3 amp)
F2	211-292	Hyd. Fan Fuse	FUSE(Mini ATC, 15 amp)
L1	n/a	Fuel shut-off solenoid	Engine Service Part
S2	n/a	Ignition switch	Engine Service Part
SP2	n/a	Engine oil pressure switch	Engine Service Part

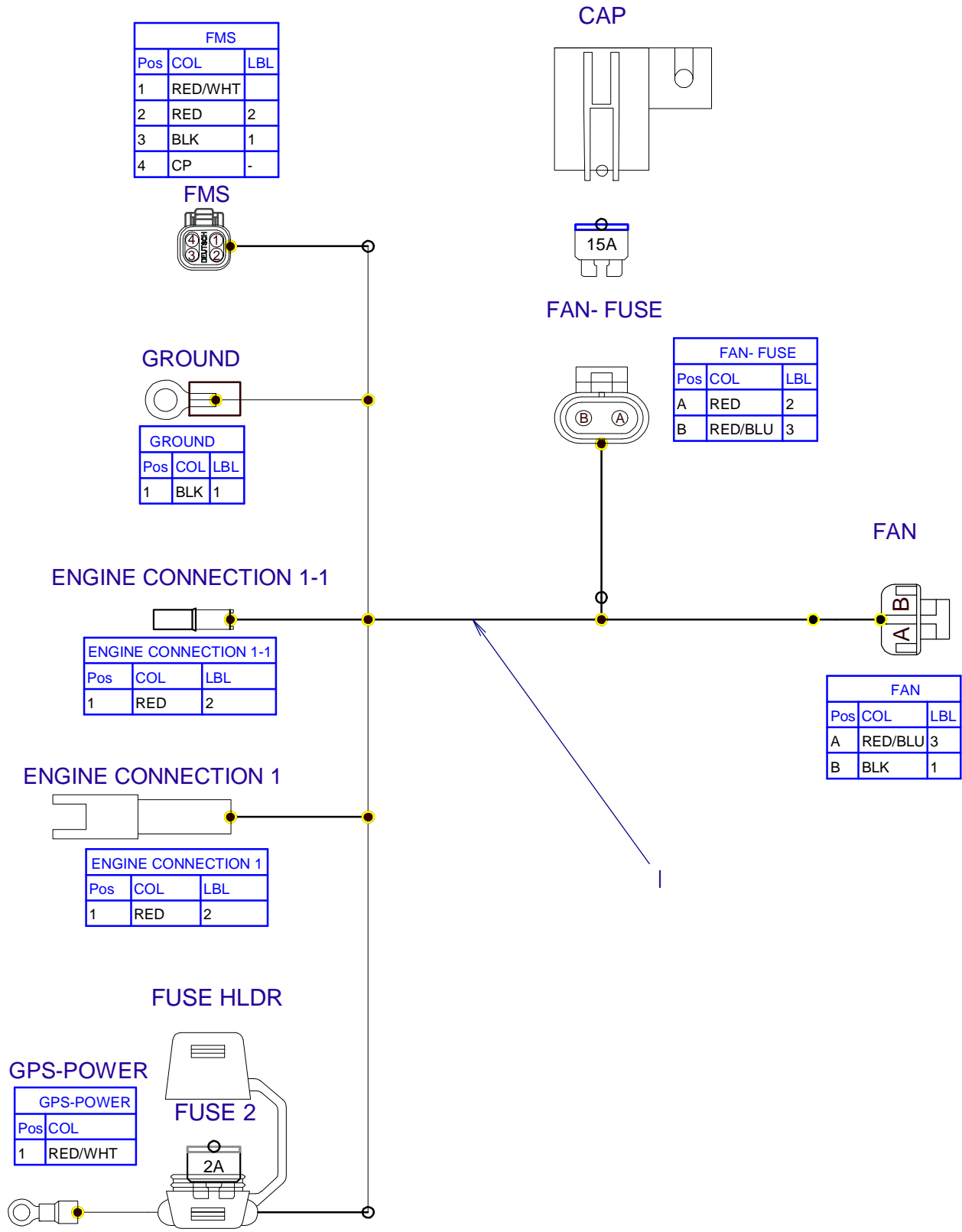
WIRING HARNESS

Ref. No.	Part No.	Quantity	Description
1	215-2268	1	Fan Harness
2	215-0042	1	Neg. Batt. Cable (6ga. X 33", Blk)
3	215-0060	1	Pos. Batt. Cable (6ga. X 36", Red)

ELECTRICAL DIAGRAM

FAN HARNESS

C16X/C16



ELECTRICAL DIAGRAM

FAN HARNESS

C16X/C16

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
I	215-0071	I	FAN HARNESS	

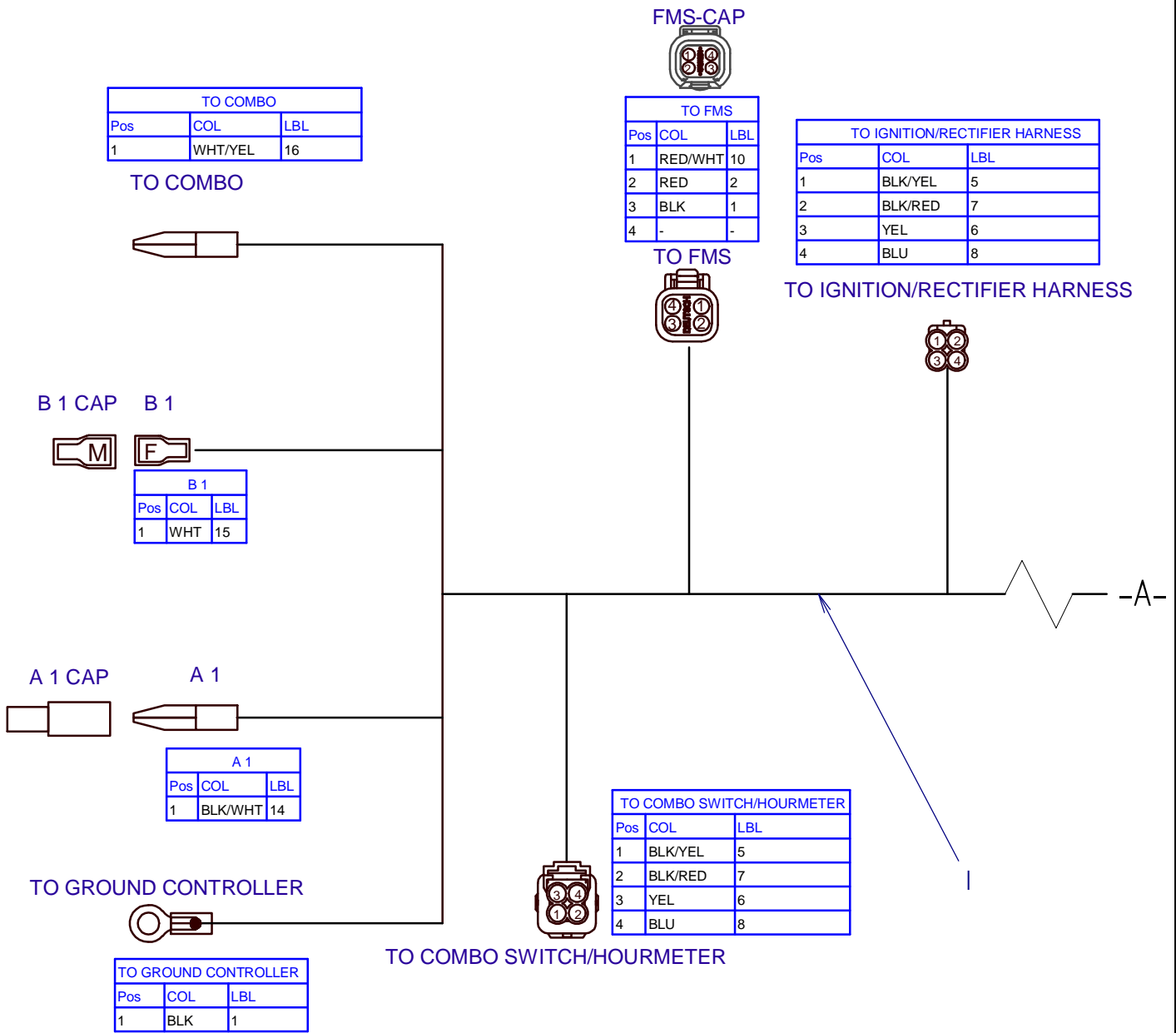
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FOOTNOTES:

NOTE:

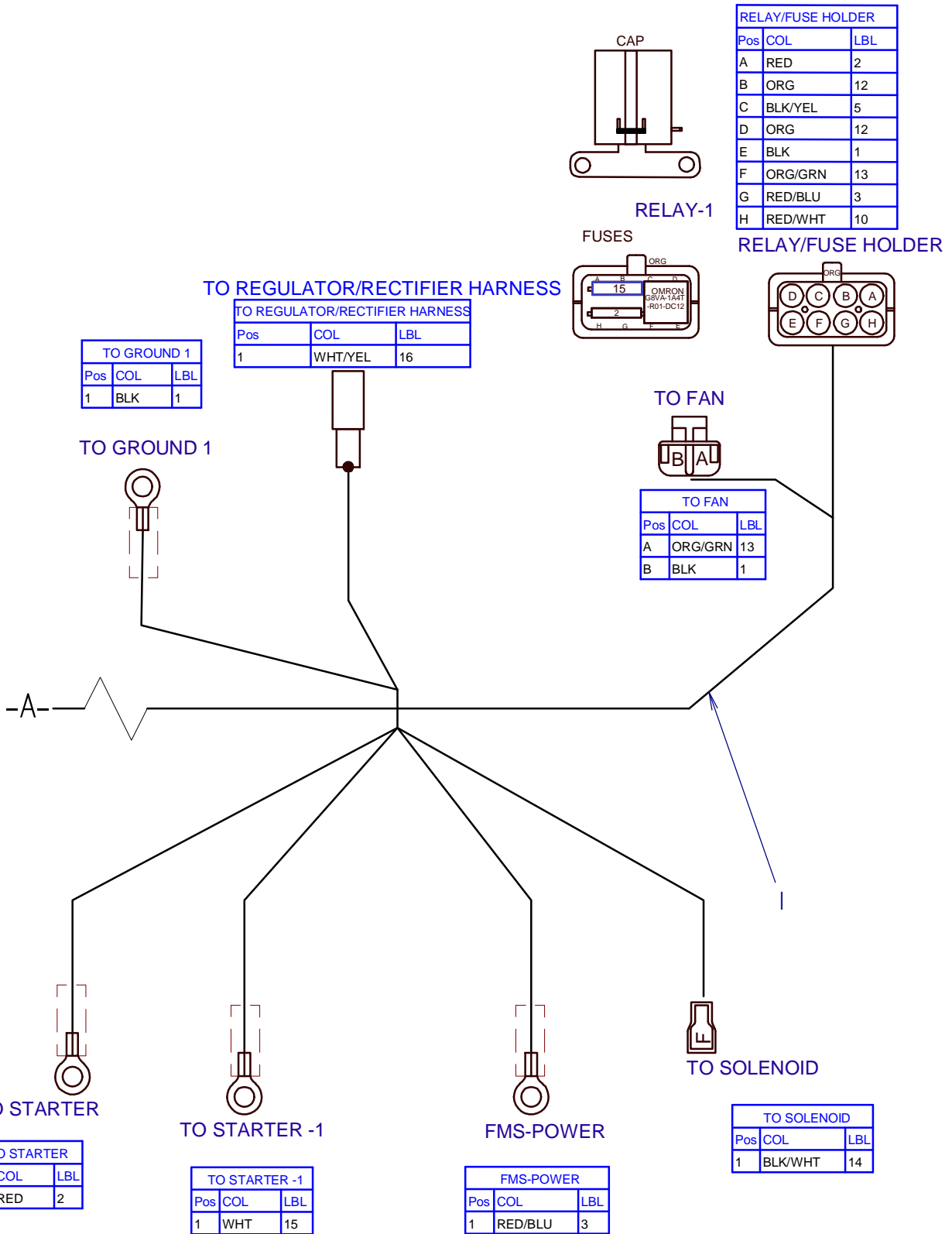
ELECTRICAL DIAGRAM

C24X/C24



ELECTRICAL DIAGRAM

C24X/C24



ELECTRICAL DIAGRAM

C24X/C24

REF	PART				
NO.	NUMBER	QTY	DESCRIPTION		REMARKS
1	215-0072	1	FAN HARNESS		

NOT SHOWN:

FOOTNOTES:

NOTE:

ELECTRICAL DIAGRAM C30X/C30

ENG. 31		
Pos	COL	LBL
1	RED	2
2	YEL	
3	GRY	
4	BRN	
5	BLK	
6	GRN	

ENG. 31



ENG. 31-1		
Pos	COL	LBL
1	RED	2
2	YEL	
3	GRY	
4	BRN	
5	BLK	
6	GRN	

ENG. 31-1

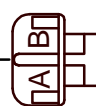


FMS



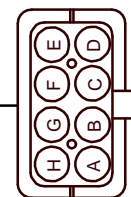
FMS		
Pos	COL	LBL
1	RED/WHT	7
2	RED	2
3	BLK	1A
4	-	-

FAN



FAN		
Pos	COL	LBL
A	ORG	12
B	BLK	1A

FUSE HOLDER 1



FUSE HOLDER 1		
Pos	COL	LBL
A	RED	2
B	ORG	12
C	-	-
D	-	-
E	-	-
F	-	-
G	RED/WHT	7
H	RED/BLU	2A

GPS-POWER

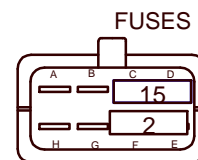
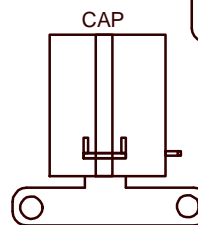


GPS-POWER		
Pos	COL	LBL
1	RED/BLU	2A

GROUND



GROUND		
Pos	COL	LBL
1	BLK	1A



ELECTRICAL DIAGRAM

C30X/C30

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
I	215-2268	I	FAN HARNESS	

NOT SHOWN:

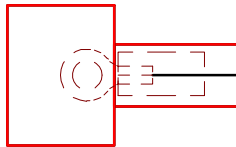
FOOTNOTES:

NOTE:

CABLES

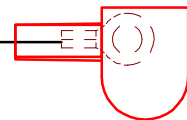
BATTERY CABLE (6GA.X 36", RED)

TO STARTER



TO STARTER		
Pos	GA	COL
1	6	RED

TO BATTERY



INSTALL BOOT BEFORE RING		
Pos	GA	COL
1	6	RED

CABLES

BATTERY CABLE (6GA.X 36", RED)

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	215-0060	1	BATTERY CABLE (6GAX 36", RED)	

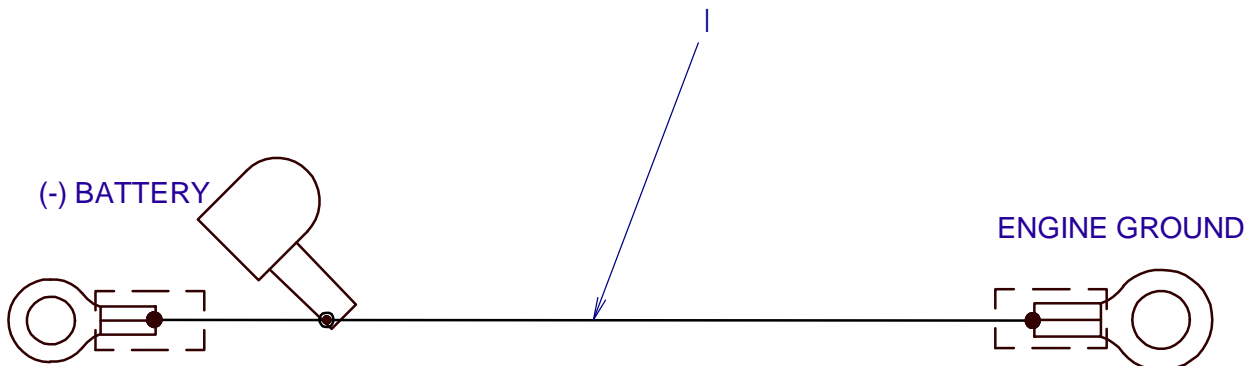
NOT SHOWN:

FOOTNOTES:

NOTE:

CABLES

BATTERY CABLE (6GA. X 33", BLK)



ENGINE GROUND					
Pos	CKT	GA	COL	Type	Term
1	1	6	BLK	SGT	2106006

(-) BATTERY					
Pos	CKT	GA	COL	Type	Term
1	1	6	BLK	SGT	2105006

CABLES

BATTERY CABLE (6GA. X 33", BLK)

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	215-0042	1	BATTERY CABLE (6GA. x 33", BLK)	

NOT SHOWN:

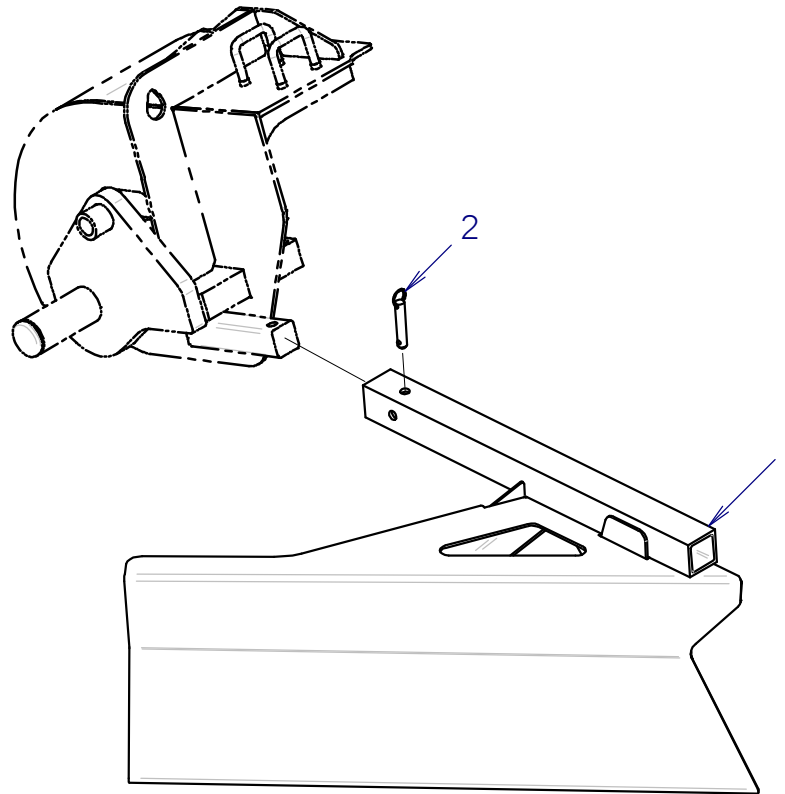
FOOTNOTES:

NOTE:

ACCESSORIES

BACKFILL BLADE

C12X / C16X / C24X / C30X



BACKFILL BLADE

C12X / C16X / C24X / C30X

REF PART

NO.	NUMBER	QTY	DESCRIPTION	REMARKS
1	302-2509	1	BLADE	
2	183-411	1	PULL PIN (1/2" X 2")	

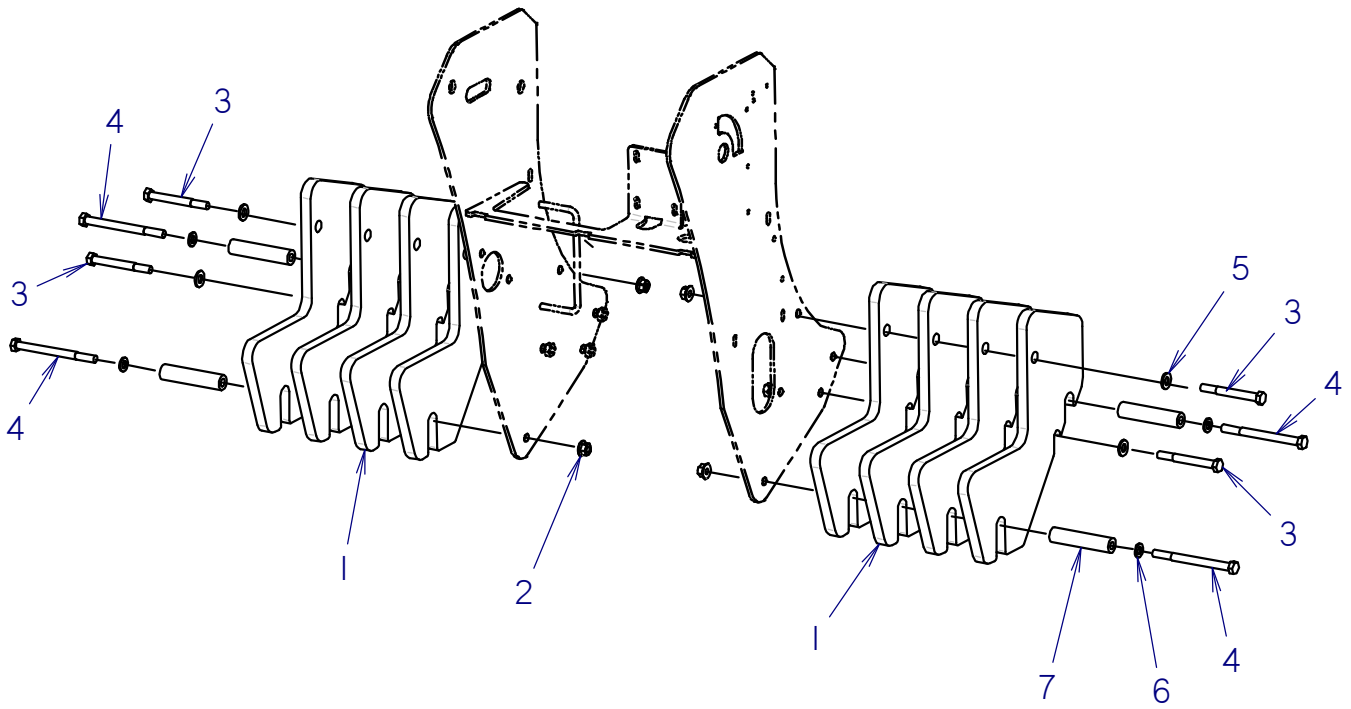
NOT SHOWN:

FOOTNOTES:

NOTE:

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35K WEIGHTS 36" SHARK II



35K WEIGHTS 36" SHARK II

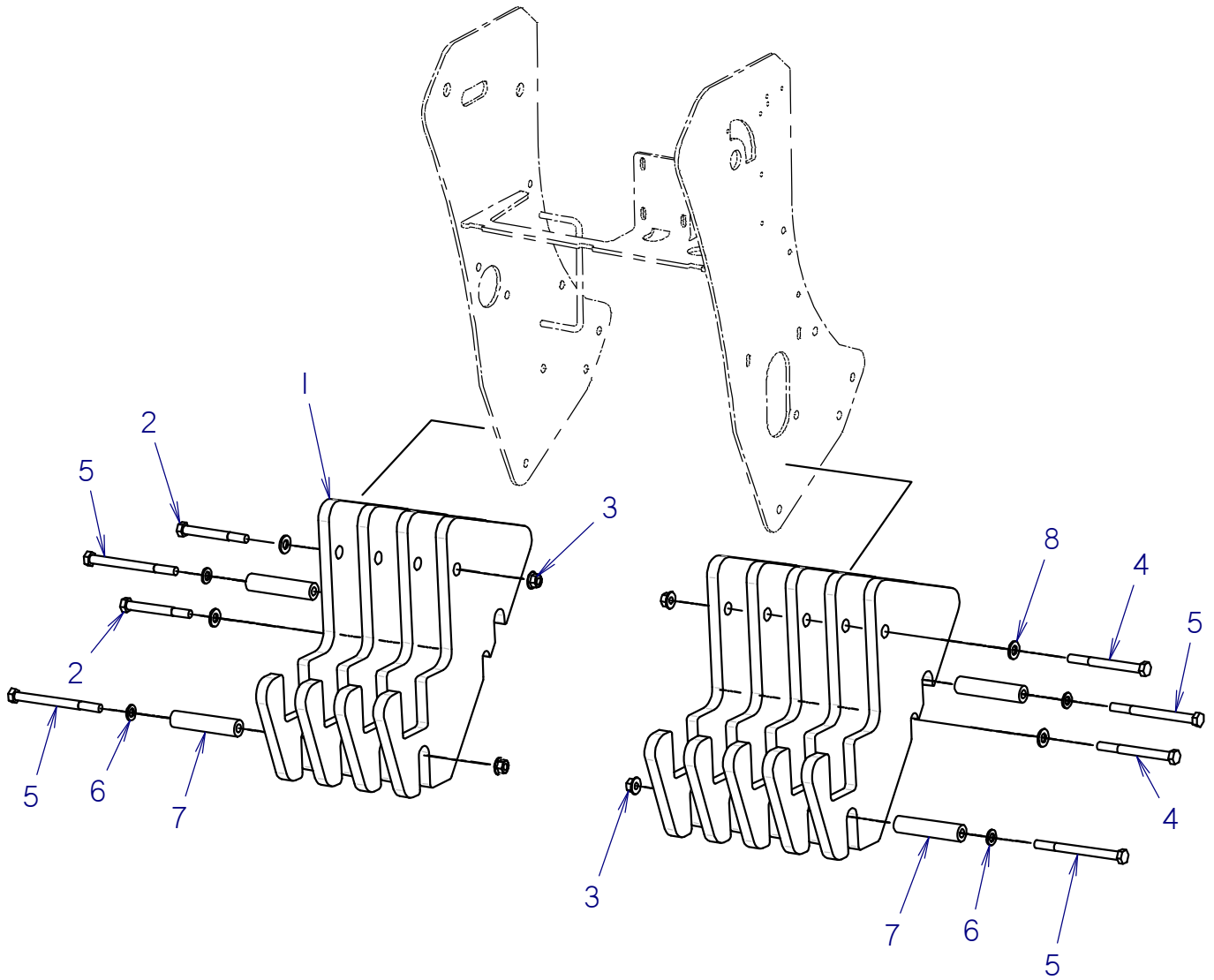
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	301-9658	8	WEIGHT	
2	106-706	4	FLANGE LOCKNUT (M12-1.75)	
3	106-645	4	SCREW (M12-1.75 X 110MM, 10.9)	
4	105-2206	4	SCREW (M12-1.75 X 150MM, 10.9 - ZP)	
5	106-743	4	WASHER (.531", HARDENED)	
6	106-391	4	WASHER (M12)	
7	301-9839	4	SPACER	

NOT SHOWN:

FOOTNOTES:

NOTE:

35K WEIGHT KIT 48" CUP AND COMBO



35K WEIGHT KIT 48" CUP AND COMBO

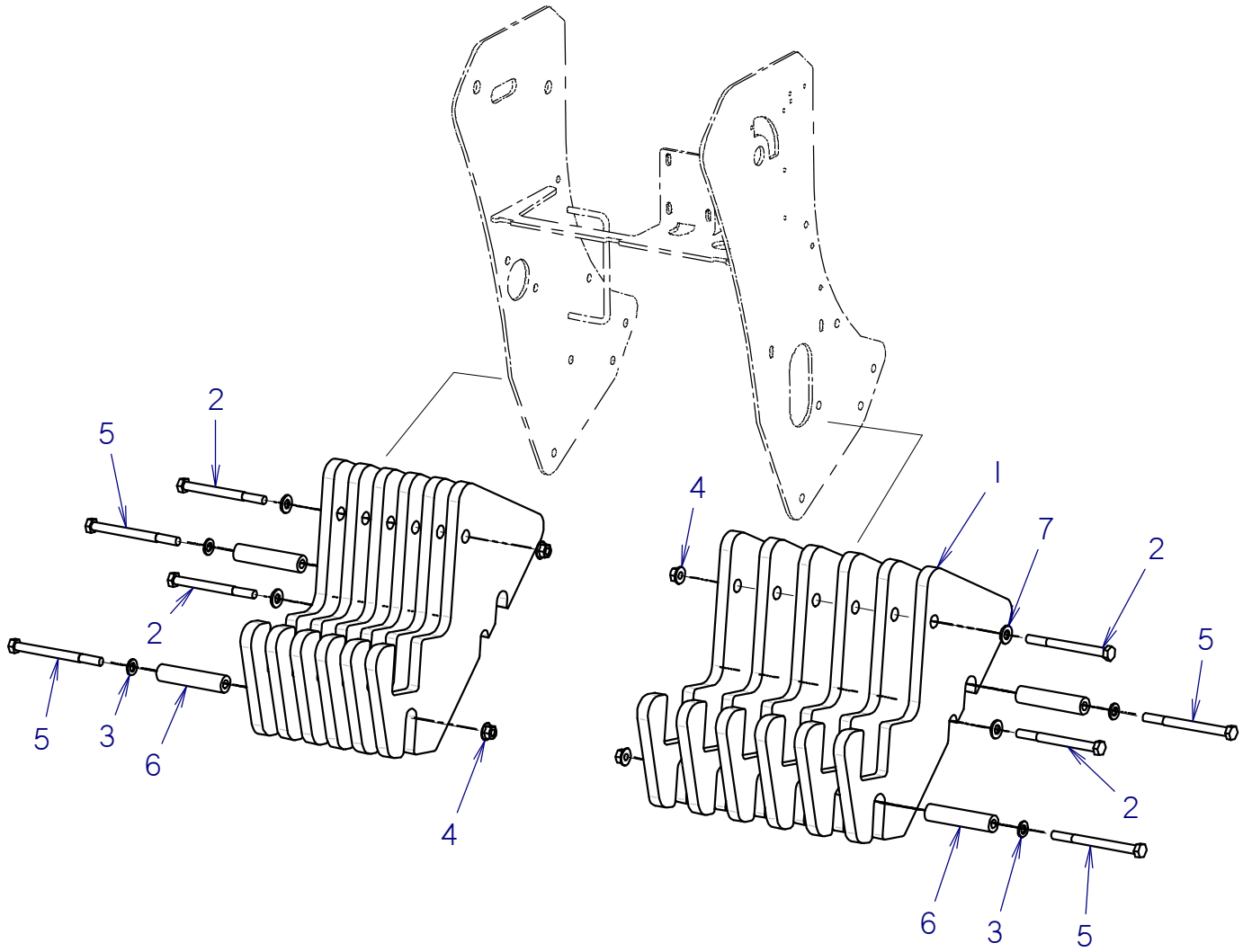
REF PART				REMARKS
NO.	NUMBER	QTY	DESCRIPTION	
1	301-9658	9	WEIGHT	
2	106-645	2	SCREW (M12-1.75 X 110MM, 10.9)	
3	106-706	4	FLANGE LOCKNUT (M12-1.75)	
4	106-618	2	SCREW (M12-1.75 X 130MM)	
5	105-2206	4	SCREW (M12-1.75 X 150MM, 10.9 - ZPI)	
6	106-391	4	WASHER (M12)	
7	301-9839	4	SPACER	
8	106-743	4	WASHER (.531", HARDENED)	

NOT SHOWN:

FOOTNOTES:

NOTE:

35K WEIGHT KIT 48" SHARK II



35K WEIGHT KIT

48" SHARK II

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	301-9658	12	WEIGHT	
2	106-855	4	SCREW (M12-1.75 X 140MM)	
3	106-391	4	WASHER (M12)	
4	106-706	4	FLANGE LOCKNUT (M12-1.75)	
5	105-2206	4	SCREW (M12-1.75 X 150MM, 10.9 - ZP)	
6	301-9839	4	SPACER	
7	106-743	4	WASHER (.531", HARDENED)	

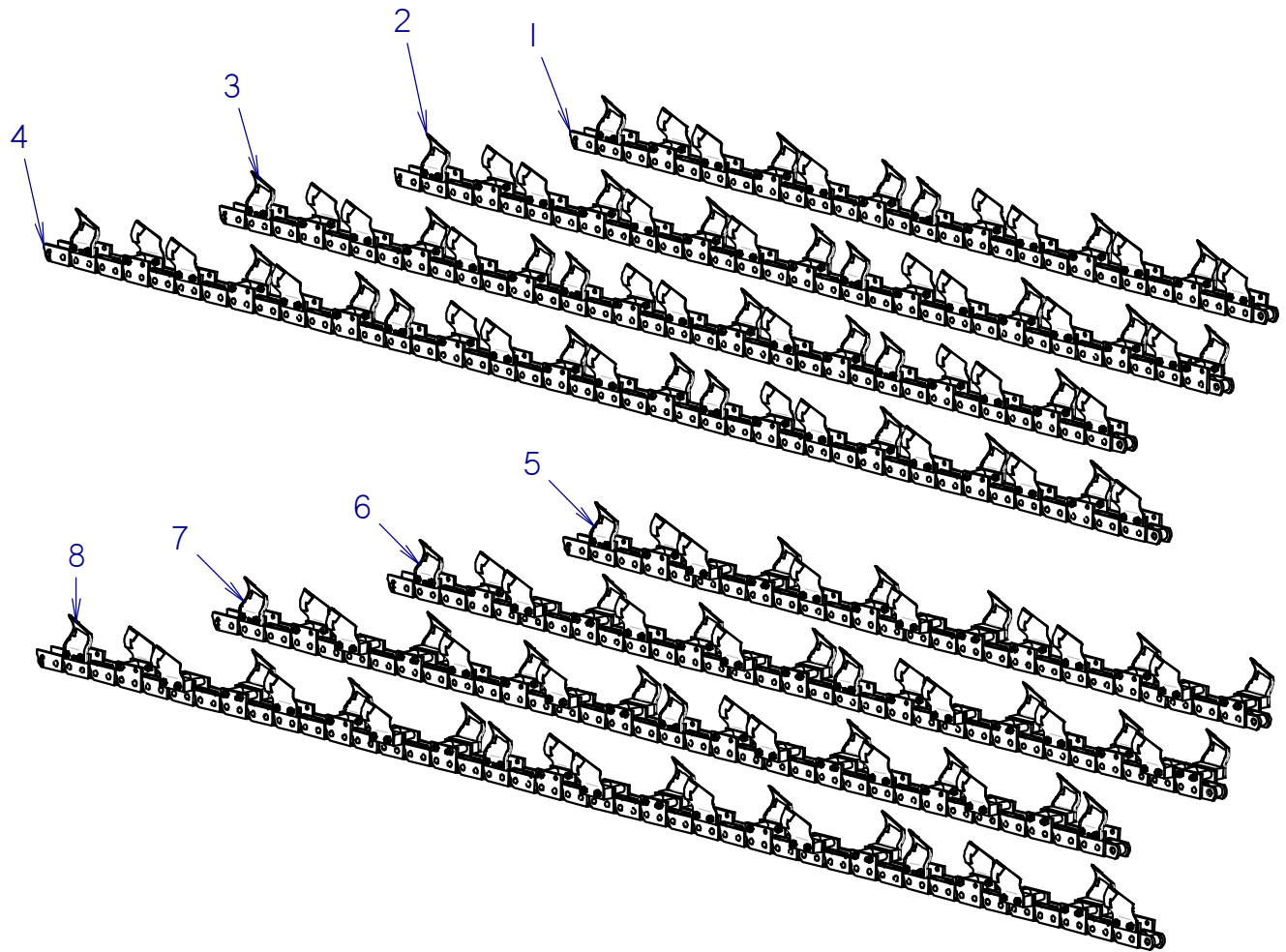
NOT SHOWN:

FOOTNOTES:

NOTE:

35K DURATOOTH CHAINS

4P CHAIN ASSEMBLIES



REPAIR PART#	CHAIN ASSEMBLIES							
	I35-1601	I35-1602	I35-1603	I35-1604	I35-1605	I35-1606	I35-1607	I35-1608
I30-1101	1	0	0	0	1	0	0	0
I30-1102	0	1	0	0	0	1	0	0
I30-1103	0	0	1	0	0	0	1	0
I30-1104	0	0	0	1	0	0	0	1
I35-1230	6	8	8	10	6	8	9	11
I35-1231	7	8	9	11	7	8	8	11
I06-400	13	16	17	21	7	8	9	12
I05-099	13	16	17	21	7	8	9	12
I37-214	13	16	17	21	19	24	25	32
I05-047	26	32	34	42	26	32	34	44
I36-029	0	0	0	0	6	8	8	10
I05-258	0	0	0	0	12	16	16	20

35K DURATOOTH CHAINS

4P CHAIN ASSEMBLIES

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	135-1601	1	35K 4P DURA 52P 4.4	
2	135-1602	1	35K 4P DURA 62P 4.4	
3	135-1603	1	35K 4P DURA 68P 4.4	
4	135-1604	1	35K 4P DURA 84P 4.4	
5	135-1605	1	35K 4P DURA 52P 6.4	
6	135-1606	1	35K 4P DURA 62P 6.4	
7	135-1607	1	35K 4P DURA 68P 6.4	
8	135-1608	1	35K 4P DURA 84P 6.4	

CHAIN ASSEMBLY COMPONENTS NOT SHOWN:

- 130-1101 35K 4P DIG CHAIN 52P
- 130-1102 35K 4P DIG CHAIN 62P
- 130-1103 35K 4P DIG CHAIN 68P
- 130-1104 35K 4P DIG CHAIN 84P
- 135-1230 DURATOOTH, LEFT 3/16" 33/35K
- 135-1231 DURATOOTH, RIGHT 3/16" 33/35K
- 106-400 BOLT (3/8-NC X 2-3/4", GD8)
- 105-099 BOLT (3/8-NC X 7/8")
- 137-214 LONG SPACER, 35K DIG CHAIN
- 105-047 LOCKNUT (3/8-NC)
- 136-029 TOOTH SPACER (1")
- 105-258 BOLT (3/8-NC X 3-3/4")

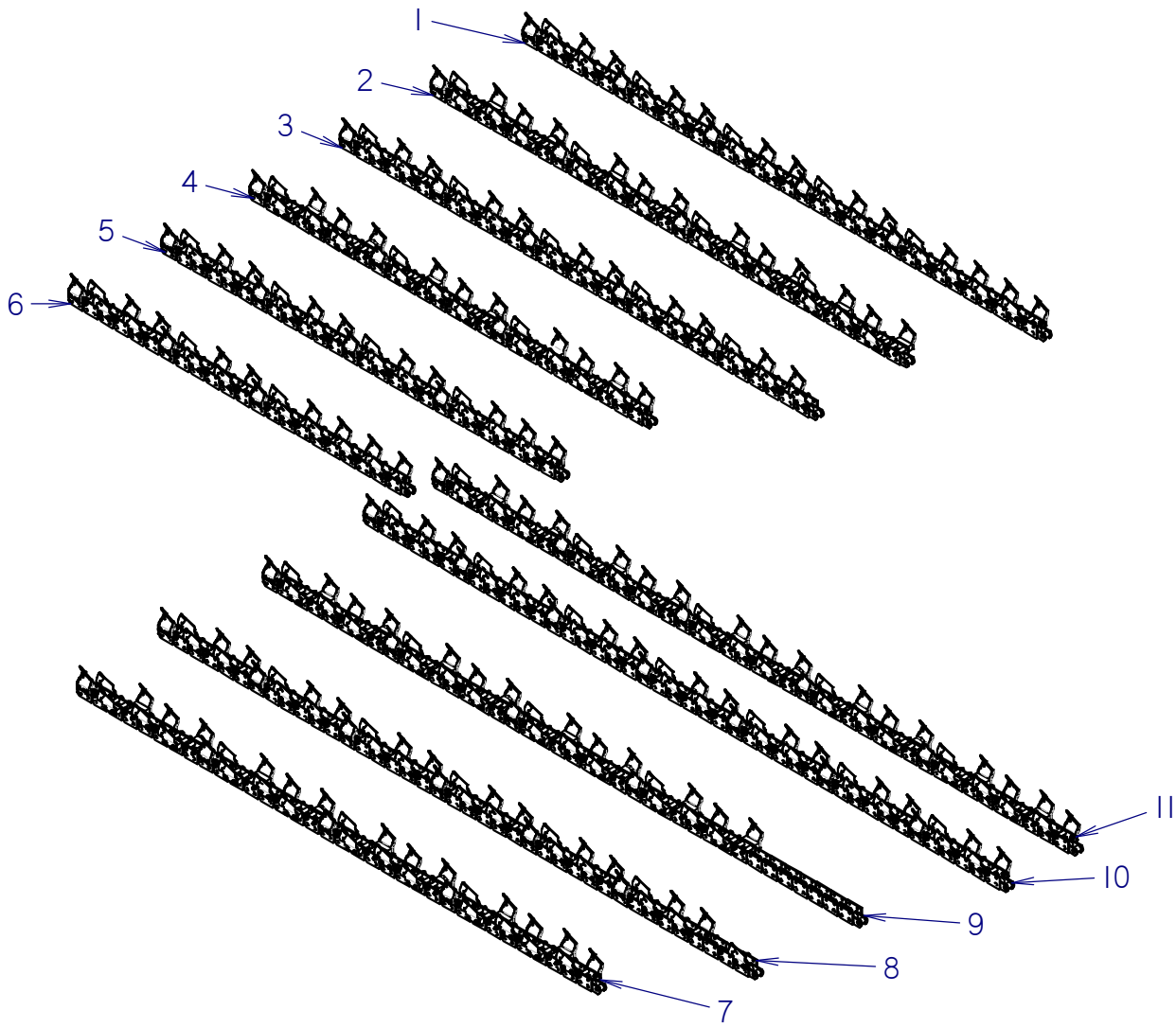
FOOTNOTES:

NOTE:

1. 35K REPAIR STATION KIT 131-001, 35K MASTER PIN 135-1028, 33K & 35K LOCK KEY 135-1085.
2. NOT ALL CHAINS LISTED MAY BE SUITABLE FOR YOUR ATTACHMENT. CONSULT A DITCH WITCH DEALER FOR MORE INFORMATION.

35K DURATOOTH CHAINS

2P CHAIN ASSEMBLIES



REPAIR	CHAIN ASSEMBLIES										
PART#	I35-1600	I37-218	I37-217	I37-215	I37-216	I37-219	I37-221	I35-1450	I35-1451	I37-220	I37-222
I35-1531	0	0	0	0	0	1	1	0	0	1	1
I37-208	0	0	0	0	0	0	0	1	1	1	1
I30-1105	1	0	0	0	0	0	0	0	0	0	0
I37-210	0	0	0	1	1	0	0	1	1	0	0
I37-209	0	1	1	0	0	0	0	0	0	0	0
I35-1230	11	13	13	15	15	17	17	19	19	21	21
I35-1231	11	13	13	16	16	17	17	20	20	21	21
I06-400	22	26	14	31	15	34	18	39	19	42	22
I05-099	22	26	14	31	15	34	18	39	19	42	22
I37-214	22	26	38	31	47	34	50	39	59	42	62
I05-047	44	52	52	62	62	68	68	78	78	84	84
I36-029	0	0	12	0	16	0	16	0	20	0	20
I05-258	0	0	24	0	32	0	32	0	40	0	40

35K DURATOOTH CHAINS

2P CHAIN ASSEMBLIES

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	137-219	1	35K 2P DURA 68P 4.6	
2	137-216	1	35K 2P DURA 62P 6.6	
3	137-215	1	35K 2P DURA 62P 4.6	
4	137-217	1	35K 2P DURA 52P 6.6	
5	137-218	1	35K 2P DURA 52P 4.6	
6	135-1600	1	35K 2P DURA 44P 4.4	
7	137-221	1	35K 2P DURA 68P 6.6	
8	135-1450	1	35K 2P DURA 78P 4.6	
9	135-1451	1	35K 2P DURA 78P 6.6	
10	137-220	1	35K 2P DURA 84P 4.6	
11	137-222	1	35K 2P DURA 84P 6.6	

CHAIN ASSEMBLY COMPONENTS NOT SHOWN:

- 135-1531 35K DIGGING CHAIN 2P (68P)
- 137-208 35K DIGGING CHAIN 2P (116P)
- 130-1105 35K 2P DIG CHAIN 44P
- 137-210 35K DIGGING CHAIN 2P (62P)
- 137-209 35K DIGGING CHAIN 2P (52P)
- 135-1230 DURATOOTH, LEFT 3/16" 33/35K
- 135-1231 DURATOOTH, RIGHT 3/16" 33/35K
- 106-400 BOLT (3/8-NC X 2-3/4", GD8)
- 105-099 BOLT (3/8-NC X 7/8")
- 137-214 LONG SPACER, 35K DIG CHAIN
- 105-047 LOCKNUT (3/8-NC)
- 136-029 TOOTH SPACER (1")
- 105-258 BOLT (3/8-NC X 3-3/4")

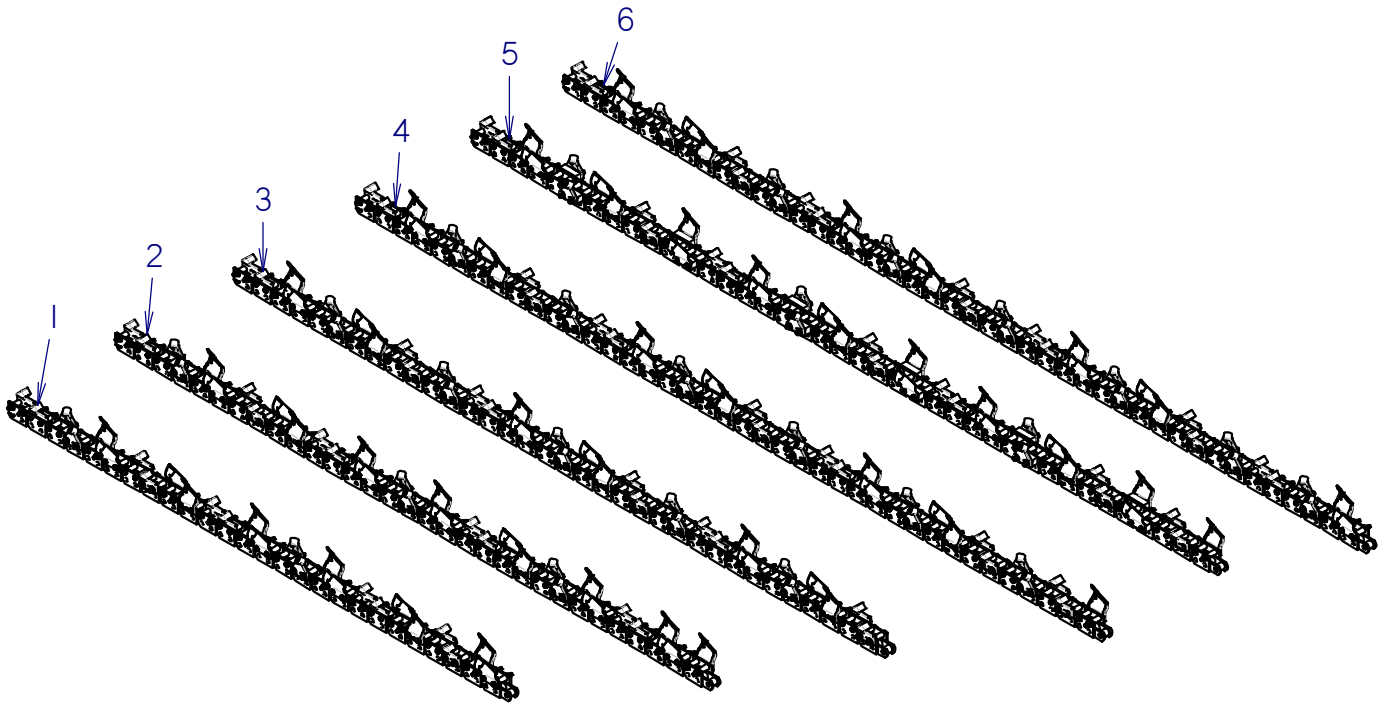
FOOTNOTES:

NOTE:

1. 35K REPAIR STATION KIT 131-001, 35K MASTER PIN 135-1028, 33K & 35K LOCK KEY 135-1085.
2. NOT ALL CHAINS LISTED MAY BE SUITABLE FOR YOUR ATTACHMENT. CONSULT A DITCH WITCH DEALER FOR MORE INFORMATION.

35K ALLIGATOR/DURATOOTH CHAINS

2P CHAIN ASSEMBLIES



REPAIR	CHAIN ASSEMBLIES					
PART#	137-229	137-230	137-231	135-1456	135-1457	137-232
135-1531	0	0	1	0	0	1
137-208	0	0	0	1	1	1
130-1105	0	0	0	0	0	0
137-210	0	1	0	1	1	0
137-209	1	0	0	0	0	0
135-1230	6	8	6	7	10	135
135-1231	6	7	6	6	9	7
136-163	2	3	5	6	3	7
136-165	2	3	5	6	3	7
136-164	10	10	12	14	14	14
106-400	12	16	12	12	12	16
105-098	40	46	56	66	42	68
137-214	40	46	56	66	66	68
137-212	12	16	12	12	12	16
105-814	52	62	68	78	78	84
136-029	0	0	0	0	12	0
105-022	0	0	0	0	24	0

35K ALLIGATOR/DURATOOTH CHAINS 2P CHAIN ASSEMBLIES

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	137-229	1	35K 2P CMB DUR/ALG B 52P 4.6	USES I31-259 INSERT BIT-CARBIDE TIPPED
2	137-230	1	35K 2P CMB DUR/ALG B 62P 4.6	USES I31-259 INSERT BIT-CARBIDE TIPPED
3	137-231	1	35K 2P CMB DUR/ALG B 68P 4.6	USES I31-259 INSERT BIT-CARBIDE TIPPED
4	135-1456	1	35K 2P CMB DUR/ALG B 78P 4.6	USES I31-259 INSERT BIT-CARBIDE TIPPED
5	135-1457	1	35K 2P DURA/ALG B/O COM 78P 6.6	USES I31-259 INSERT BIT-CARBIDE TIPPED
6	137-232	1	35K 2P CMB DUR/ALG B 84P 4.6	USES I31-259 INSERT BIT-CARBIDE TIPPED

CHAIN ASSEMBLY COMPONENTS NOT SHOWN:

135-1531 35K DIGGING CHAIN 2P (68P)
 137-208 35K DIGGING CHAIN 2P (16P)
 130-1105 35K 2P DIG CHAIN 44P
 137-210 35K DIGGING CHAIN 2P (62P)
 137-209 35K DIGGING CHAIN 2P (52P)
 135-1230 DURATOOTH, LEFT 3/16" 33/35K
 135-1231 DURATOOTH, RIGHT 3/16" 33/35K
 136-163 RIGHT BIT HOLDER
 136-164 CENTER BIT HOLDER
 136-165 LEFT BIT HOLDER
 106-400 BOLT (3/8-NC X 2-3/4", GD8)
 105-098 BOLT (3/8-NC X 3")
 137-214 LONG SPACER, 35K DIG CHAIN
 137-212 SHORT SPACER, 35K DIG CHAIN
 105-814 FLG LOCKNUT (3/8-NC)
 136-029 TOOTH SPACER (1")
 105-022 BOLT (3/8-NC X 4")

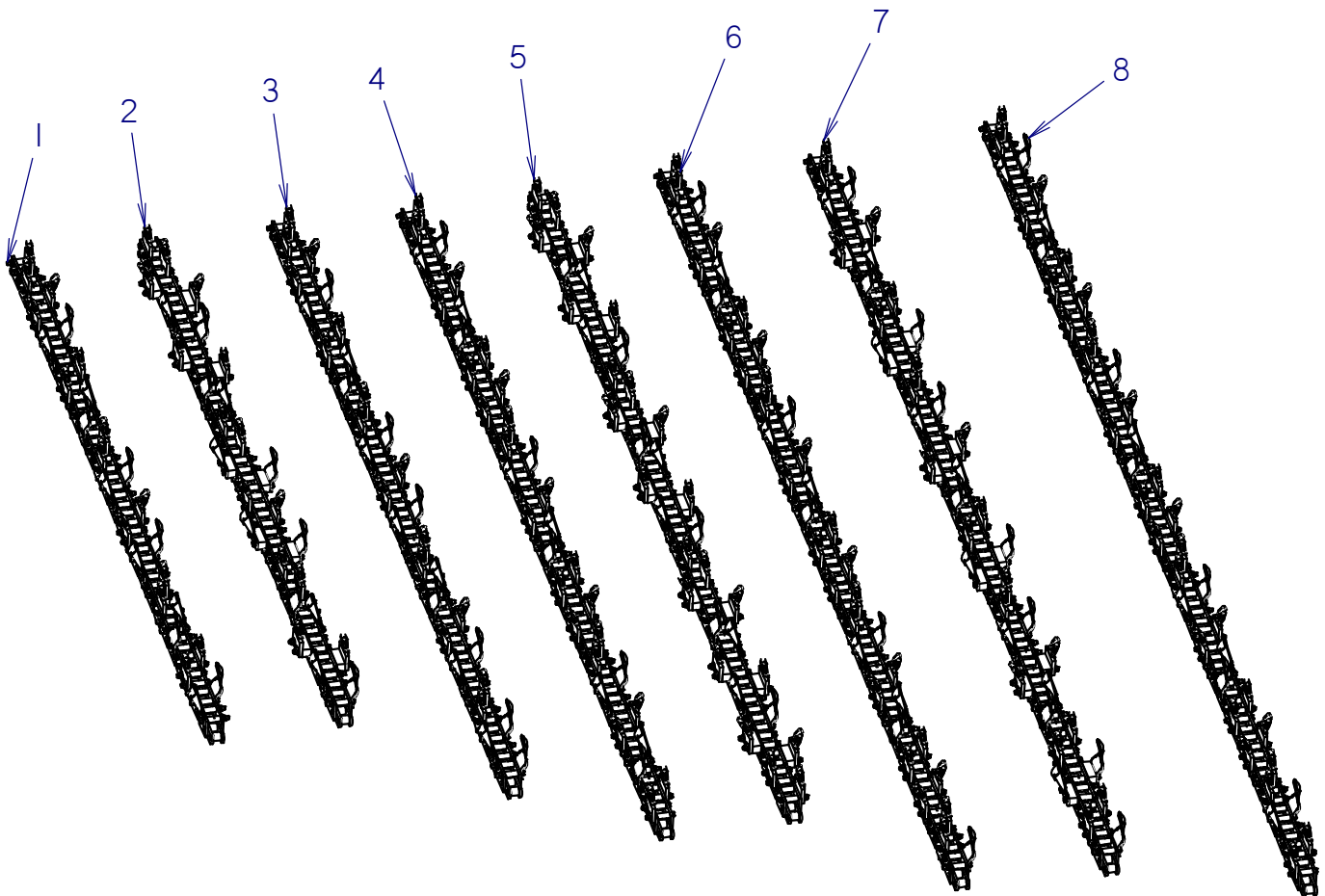
FOOTNOTES:

NOTE:

- 35K REPAIR STATION KIT I31-001, 35K MASTER PIN I35-1028, 33K&35K LOCK KEY I35-1085
- NOT ALL CHAINS LISTED MAY BE SUITABLE FOR YOUR ATTACHMENT. CONSULT A DITCH WITCH DEALER FOR MORE INFORMATION.

35K SHARK/DURATOOTH CHAINS

2P CHAIN ASSEMBLIES



REPAIR	CHAIN ASSEMBLIES							
PART#	I37-233	I35-102I	I37-235	I37-236	I35-1445	I35-1454	I35-1455	I37-237
I35-1531	0	0	0	1	1	0	0	1
I37-208	0	0	0	0	0	1	1	1
I30-1105	0	0	0	0	0	0	0	0
I37-210	0	0	1	0	0	1	1	0
I37-209	1	1	0	0	0	0	0	0
I35-1230	6	6	8	6	6	7	10	7
I35-1231	6	6	7	6	6	6	9	7
I35-637	2	2	3	5	4	6	3	6
I35-638	2	2	3	5	4	6	3	6
I35-639	10	10	10	12	14	14	14	16
I06-400	12	12	16	12	12	16	12	16
I05-098	40	20	46	56	28	62	42	68
I37-214	40	40	46	56	56	62	66	68
I37-212	12	12	16	12	12	16	12	16
I05-814	52	52	62	68	68	78	78	84
I36-029	0	10	0	0	14	0	12	0
I05-022	0	20	0	0	28	0	24	0

35K SHARK/DURATOOTH CHAINS

2P CHAIN ASSEMBLIES

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	137-233	1	35K 2P CMB DUR/SHK B 52P 4.6	
2	135-1021	1	35K 2P CMB DURA/SHK B 52P 6.6	
3	137-235	1	35K 2P CMB DUR/SHK B 62P 4.6	
4	137-236	1	35K 2P CMB DUR/SHK B 68P 4.6	
5	135-1445	1	35K 2P SHK B/O COM 68P 6.0	
6	135-1454	1	35K 2P CMB DUR/SHK B 78P 4.6	
7	135-1455	1	35K 2P CMB DUR/SHK B 78P 6.6	
8	137-237	1	35K 2P CMB DUR/SHK B 84P 4.6	

CHAIN ASSEMBLY COMPONENTS NOT SHOWN:

- 135-1531 35K DIGGING CHAIN 2P (68P)
- 137-208 35K DIGGING CHAIN 2P (116P)
- 130-1105 35K 2P DIG CHAIN 44P
- 137-210 35K DIGGING CHAIN 2P (62P)
- 137-209 35K DIGGING CHAIN 2P (52P)
- 135-1230 DURATOOTH, LEFT 3/16" 33/35K
- 135-1231 DURATOOTH, RIGHT 3/16" 33/35K
- 135-637 33/35K RIGHT BOLT-ON SHARK ADAPTER
- 135-638 33/35K LEFT BOLT-ON SHARK ADAPTER
- 135-639 33/35K CENTER CUT BOLT-ON SHARK ADAPTER
- 106-400 BOLT (3/8-NC X 2-3/4", GD8)
- 105-098 BOLT (3/8-NC X 3")
- 137-214 LONG SPACER, 35K DIG CHAIN
- 137-212 SHORT SPACER, 35K DIG CHAIN
- 105-814 FLG LOCKNUT (3/8-NC)
- 136-029 TOOTH SPACER (1")
- 105-022 BOLT (3/8-NC X 4")

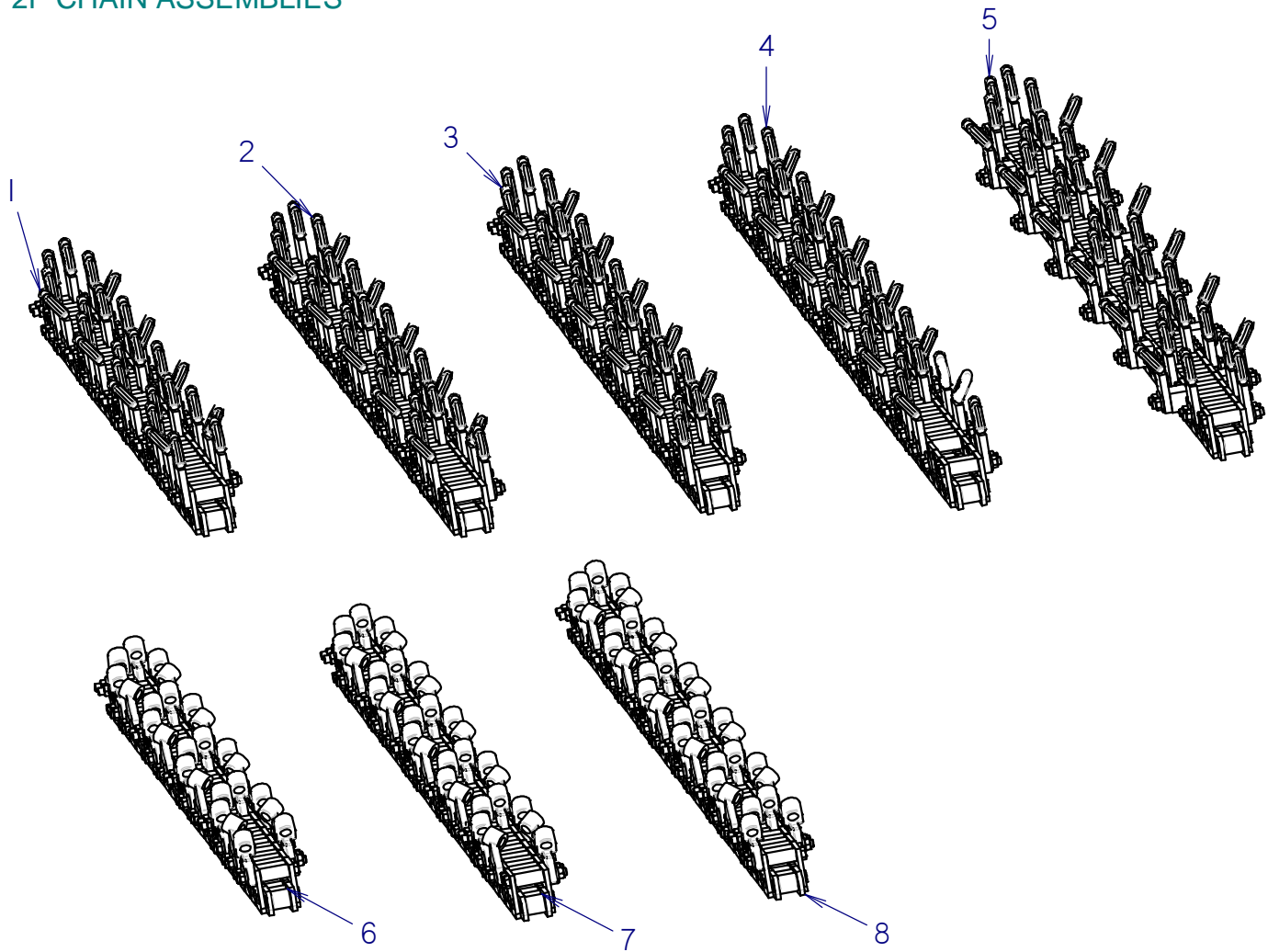
FOOTNOTES:

NOTE:

1. 35K REPAIR STATION KIT 131-001, 35K MASTER PIN 135-1028, 33K & 35K LOCK KEY 135-1085
2. NOT ALL CHAINS LISTED MAY BE SUITABLE FOR YOUR ATTACHMENT. CONSULT A DITCH WITCH DEALER FOR MORE INFORMATION.

35K SHARK & ALLIGATOR CHAINS

2P CHAIN ASSEMBLIES



REPAIR	CHAIN ASSEMBLIES							
PART#	I37-223	I37-224	I37-225	I37-226	I37-227	I37-228	I35-I452	I35-I453
I35-I53I	0	0	1	0	0	1	0	0
I37-208	0	0	0	0	0	0	1	1
I37-210	0	1	0	0	1	0	1	1
I37-209	1	0	0	1	0	0	0	0
I36-I63	4	5	5	0	0	0	0	0
I36-I64	18	21	24	0	0	0	0	0
I36-I65	4	5	5	0	0	0	0	0
I35-637	0	0	0	4	5	5	6	6
I35-638	0	0	0	4	5	5	6	6
I35-639	0	0	0	18	21	24	27	27
I06-400	16	20	24	16	20	24	24	24
I05-098	36	42	44	36	42	44	54	30
I37-214	36	42	44	36	42	44	54	54
I37-212	16	20	24	16	20	24	24	24
I05-814	52	62	68	52	62	68	78	78
I36-029	0	0	0	0	0	0	0	12
I05-022	0	0	0	0	0	0	0	24

35K SHARK & ALLIGATOR CHAINS

2P CHAIN ASSEMBLIES

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	137-226	1	35K 2P SHK B/O 52P 4.3	
2	137-227	1	35K 2P SHK B/O 62P 4.3	
3	137-228	1	35K 2P SHK B/O 68P 4.3	
4	135-1452	1	35K 2P SHK B/O 78P 4.3	
5	135-1453	1	35K 2P SHK B/O 78P 6.3	
6	137-223	1	35K 2P ALG B/O 52P 4.3	SEE F/N 1
7	137-224	1	35K 2P ALG B/O 62P 4.3	SEE F/N 1
8	137-225	1	35K 2P ALG B/O 68P 4.3	SEE F/N 1

CHAIN ASSEMBLY COMPONENTS NOT SHOWN:

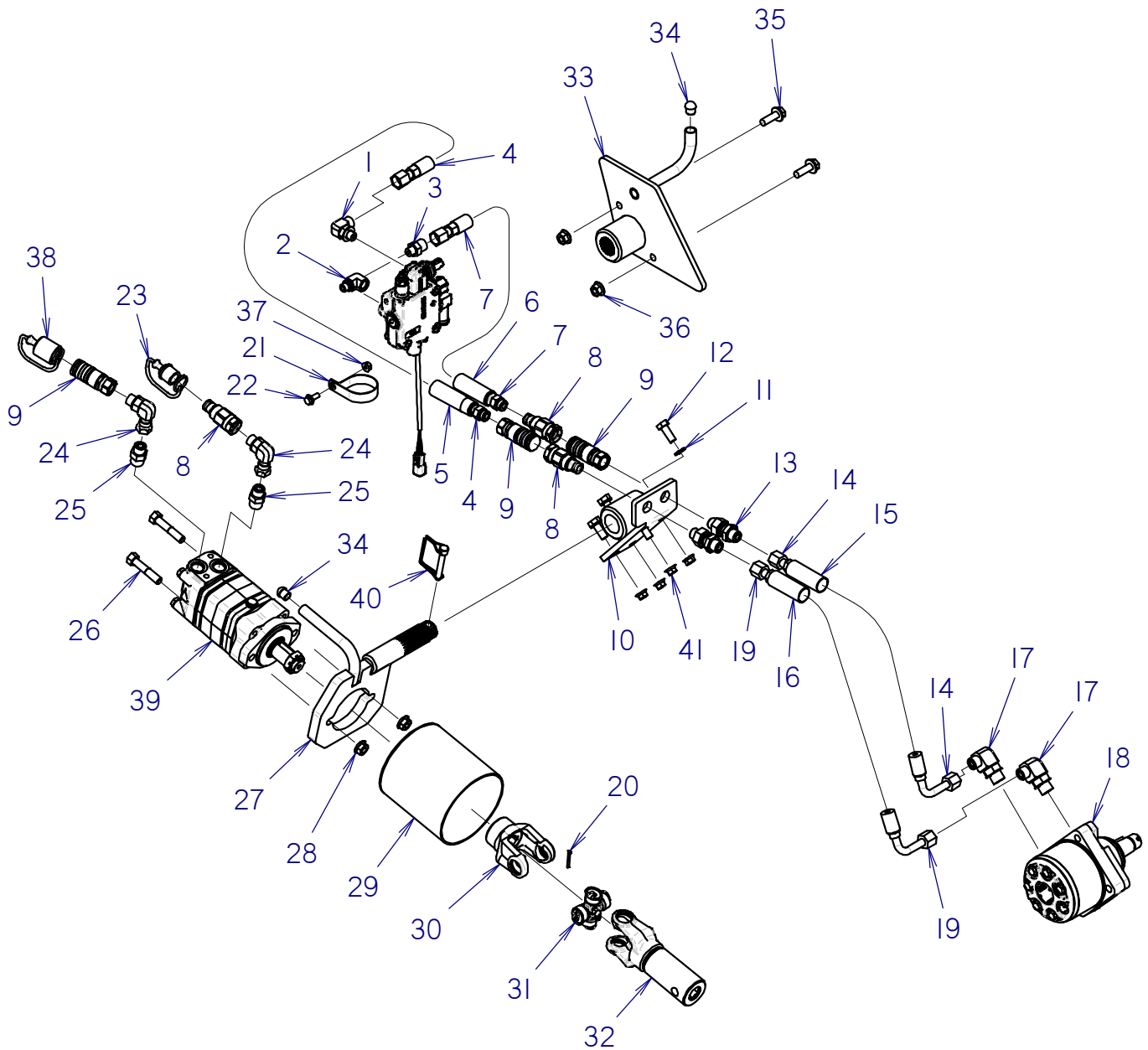
135-1531 35K DIGGING CHAIN 2P (68P)
 137-208 35K DIGGING CHAIN 2P (16P)
 137-210 35K DIGGING CHAIN 2P (62P)
 137-209 35K DIGGING CHAIN 2P (52P)
 136-163 RIGHT BIT HOLDER
 136-164 CENTER BIT HOLDER
 136-165 LEFT BIT HOLDER
 135-637 33/35K RIGHT BOLT-ON SHARK ADAPTER
 135-638 33/35K LEFT BOLT-ON SHARK ADAPTER
 135-639 33/35K CENTER CUT BOLT-ON SHARK ADAPTER
 106-400 BOLT (3/8-NC X 2-3/4", GD8)
 105-098 BOLT (3/8-NC X 3")
 137-214 LONG SPACER, 35K DIG CHAIN
 137-212 SHORT SPACER, 35K DIG CHAIN
 105-814 FLG LOCKNUT (3/8-NC)
 136-029 TOOTH SPACER (1")
 105-022 BOLT (3/8-NC X 4")

FOOTNOTES:

1. USES 131-259 INSERT BITS

NOTE:

1. 35K REPAIR STATION KIT 131-001, 35K MASTER PIN 135-1028, 33K & 35K LOCK KEY 135-1085
 2. NOT ALL CHAINS LISTED MAY BE SUITABLE FOR YOUR ATTACHMENT. CONSULT A DITCH WITCH DEALER FOR MORE INFORMATION.

ROTOWITCH
C16X/ C24X/ C30X

ROTOWITCH

C16X/ C24X/ C30X

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	154-253	1	CONNECTOR (06S-08090)	
2	154-460	1	CONNECTOR (06S-06SF90)	
3	154-246	1	CONNECTOR (06S-080)	
4	150-4654	1	HOSE (080FX, 08MB-63"-4000)	
5	105-2127	1	ABRASION SLEEVE (1.00" X 65")	
6	118-062	1	ABRASION SLEEVE (1.00" X 62")	
7	150-4654	1	HOSE (080FX, 08MB-63"-4000)	
8	150-1866	3	QDC ADAPTER (08-08SF)	
9	150-1865	3	QDC BODY (08-08SF)	
10	302-0709	1	MOUNT - ROTOWITCH	
11	106-030	4	LOCK WASHER (M12)	
12	105-273	4	SCREW (M12-1.75 X 30MM)	
13	149-841	2	BK CONNECTOR (08S-080BK)	
14	150-4797	1	HOSE (080FX90L-35"-4000)	
15	117-412	1	ABRASION SLEEVE (1" X 34")	
16	105-2126	1	ABRASION SLEEVE (1" X 35")	
17	154-322	2	CONNECTOR (080-10S90)	
18	150-4387	1	HYDRAULIC MOTOR (PARKER TL 140)	
19	150-4796	1	HOSE (080FX90L-36"-4000)	
20	105-518	1	COTTER PIN (1.25 X 1.500)	OPTIONAL
21	110-555	1	CLAMP (1-7/8")	
22	105-1795	1	FLG LK SCREW (M8-1.25 X 20mm) SERRATED	
23	150-3047	1	QDC COVER (3/8M, PVC, YELLOW)	
24	154-418	2	UNION (08S-080FX90)	
25	154-279	2	CONNECTOR (080-10S)	
26	105-082	2	BOLT (1/2-NC X 2-1/2")	
27	302-0558	1	HYDRAULIC MOTOR MOUNT	
28	105-833	2	FLG LOCKNUT (1/2-NC)	
29	351-219	1	YOKE GUARD	
30	182-092	1	YOKE (1-1/4", 5/16" KWY)	
31	180-723	1	CROSS/BEARING KIT (1-1/8")	
32	160-1059	1	ROTO WITCH YOKE	
33	302-0644	1	MOUNT - ROTOWITCH STOW	
34	105-1877	2	ROUND DOMED TUBE GLIDE	
35	107-003	2	FLG LK SCREW (M12-1.75 X 35MM)	
36	106-709	2	FLG LK NUT (M12-1.75)	
37	106-386	1	FLG LOCKNUT (M8-1.25)	
38	150-3048	1	QDC COVER (3/8F, PVC, YELLOW)	
39	150-6055	1	MOTOR, HYDRAULIC - 315CC	INCLUDES CASTLE NUT, SEE FOOTNOTES 1, 2 & 3
40	105-2143	1	SNAPPER PIN (3/8" X 2 1/4")	
41	106-387	4	FLG LOCKNUT (M10-1.50)	

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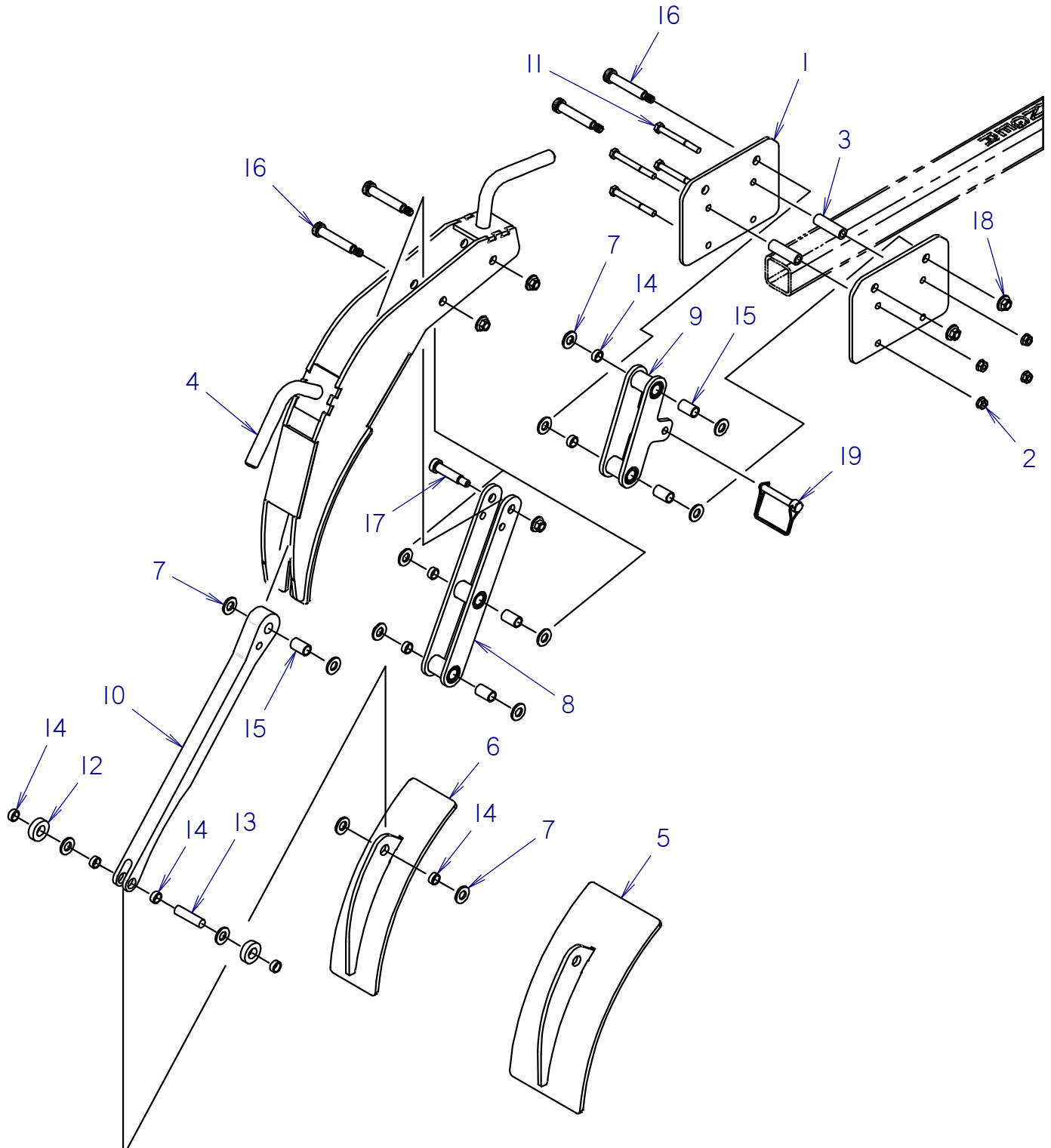
FOOTNOTES:

- FOR OLD STYLE HYD MOTOR 155-579, USE SEAL KIT 500-347 FOR MOTOR VERSION 002, 003, 004 & 005. SEAL KIT 500-658 IS TO BE USED WITH VERSION 006 MOTORS.
- HYD. MOTOR 150-6055 BEGINS WITH S/N: CMW_____, USE SEAL KIT 500-3733
- WHEN INSTALLING NUT, USE LOCTITE 242 OR EQUIVALENT AND TORQUE TO 95-100 FT-LB'S.

NOTE:

THIS PARTS PAGE SUPERSEDES OLD #ID0401893

TRENCH CLEANER



TRENCH CLEANER

REF PART NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	302-4506	2	CLEANER MOUNT	
2	105-003	4	FLG LOCKNUT (5/16-NC)	
3	302-0904	2	CRUMBER SPACER	
4	302-4507	1	TRENCH CLEANER BASE	
5	302-4501	1	CLEANER SHOE - 6"	
6	302-4592	1	CLEANER SHOE - 4"	
7	105-1412	14	WASHER (NYLON, .515)	
8	302-4498	1	FRONT LINK	
9	302-4496	1	REAR LINK	
10	302-4505	1	CLEANER SHOE LINK	
11	105-170	4	BOLT (5/16-NC X 3")	
12	302-4548	2	ROLLER	
13	105-2496	1	PIN (.500")	
14	125-1167	9	BRONZE BUSHING	PRESS BUSHING INTO CORRESPONDING COMPONENT.
15	125-430	5	BRONZE BUSHING	PRESS BUSHING INTO CORRESPONDING COMPONENT.
16	105-2634	4	SHLD BLT (1/2" X 2-1/2", 3/8"-NC)	
17	106-095	1	SHLD BLT (1/2" X 1-3/4", 3/8"-NC)	
18	105-814	5	FLG LOCKNUT (3/8-NC)	
19	105-2143	1	SNAPPER PIN (3/8" X 2 1/4")	

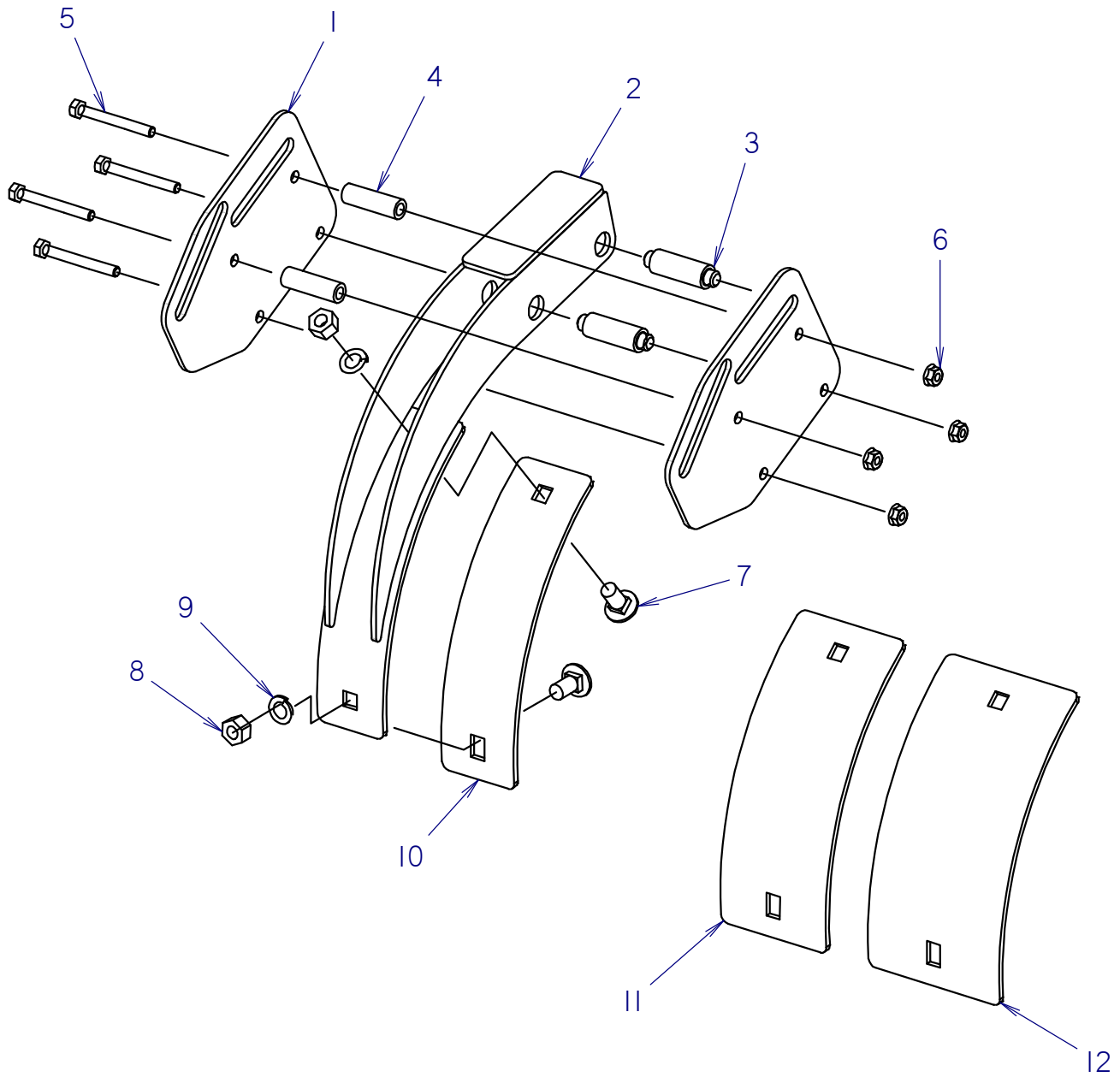
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FOOTNOTES:

NOTE:

TRENCH CLEANER

C AND CX SERIES



TRENCH CLEANER C AND CX SERIES

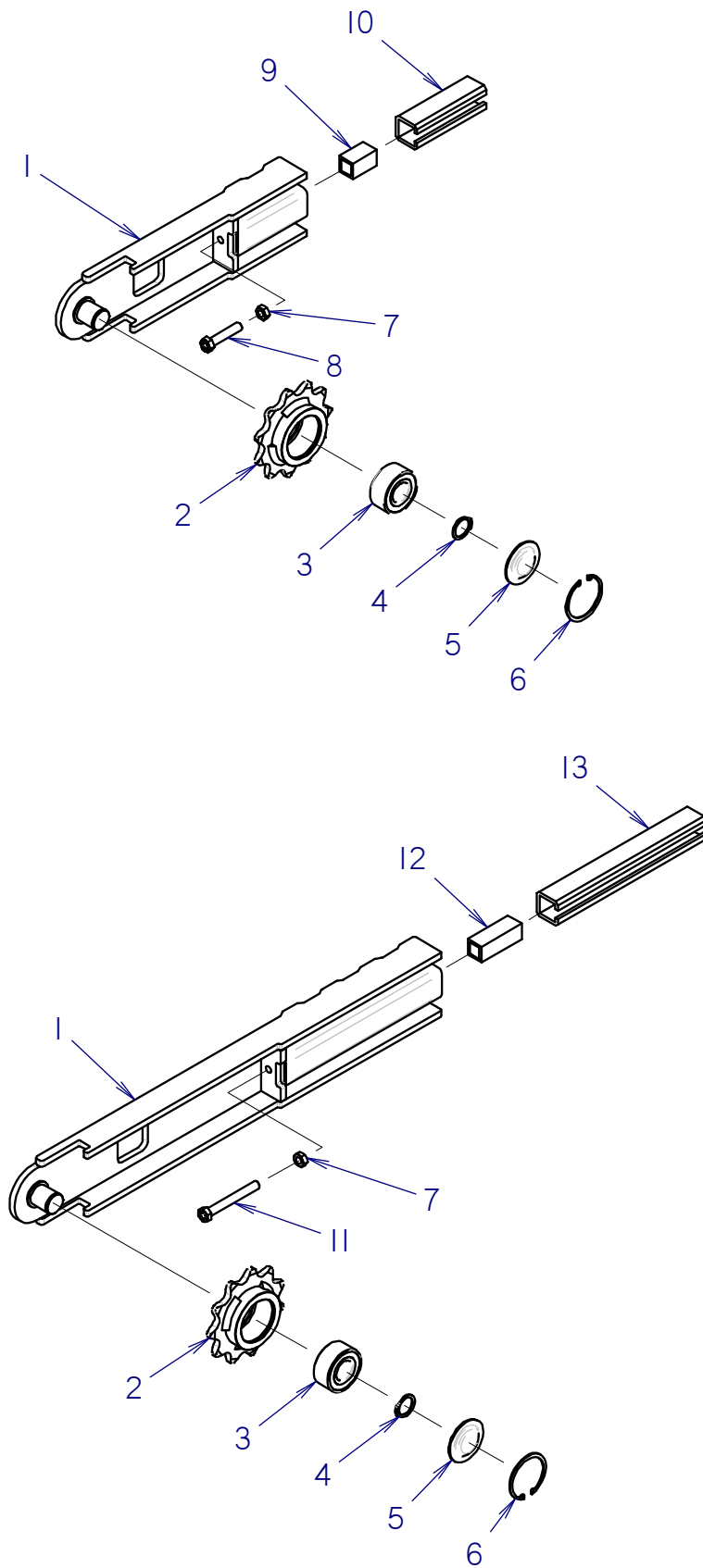
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	302-0902	2	CRUMBER SLIDE	
2	302-0899	1	PEDESTRIAN CRUMBER BASE	
3	302-0903	2	CRUMBER PIN	
4	302-0904	2	CRUMBER SPACER	
5	105-190	4	BOLT (5/16-NC X 2-3/4")	
6	105-003	4	FLG LOCKNUT (5/16-NC)	
7	105-2191	2	CARRIAGE BOLT (1/2-NCX1.00" ZP)	
8	105-021	2	NUT(1/2-NC)	
9	105-070	2	LOCK WASHER (1/2")	
10	302-0900	1	CRUMBER DRAG - 3"	19K CHAIN 3"
11	302-5294	1	CRUMBER DRAG - 4"	33/35K CHAIN 4"
12	302-0901	1	CRUMBER DRAG - 6"	33/35K CHAIN 6"

NOT SHOWN:

FOOTNOTES:

NOTE:

BOOM ASSEMBLIES 19K (NON-LUBE)



BOOM ASSEMBLIES 19K (NON-LUBE)

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	140-1394	-	18" BOOM ASM (19K)	SEE FOOTNOTE 1; INCLUDES REF NO'S 8 THRU 10
1	140-1384	1	BOOM (18")	
	140-1395	-	24" BOOM ASM (19K)	SEE FOOTNOTE 1; INCLUDES REF NO'S 11 THRU 13
1	140-1383	1	BOOM (24")	
	140-1418	-	30" BOOM ASM (19K)	SEE FOOTNOTE 1; INCLUDES REF NO'S 11 THRU 13
1	140-1417	1	BOOM (30")	
	140-1403	-	36" BOOM ASM (19K)	SEE FOOTNOTE 1; INCLUDES REF NO'S 11 THRU 13
1	140-1402	1	BOOM (36")	
	140-1392		ROLLER ASM 19K (NON-LUBE)	INCLUDES REF NO'S 2 THRU 6
2	140-1381	1	SPROCKET WELDMENT 19K (NON-LUBE)	
3	125-1125	1	BALL BEARING (1.575")	
4	118-021	1	EXTERNAL SNAP RING (1.500")	
5	302-1838	1	DUST COVER	
6	115-451	1	INTERNAL SNAP RING (3.343")	
7	105-403	1	JAM NUT (5/8-NC)	
8	105-2016	1	BOLT (5/8-NC X 3", GD8)	
9	105-2036	1	SHORT SPRING (INSERT)	METAL PART OF SPRING TO GO AGAINST TENSION BOLT
10	362-2015	1	UHMW SLEEVE (1.56" X 6.875")	
11	105-1445	1	BOLT (5/8 NC X 5 FULL THREAD, HHCS)	
12	105-2065	1	LONG SPRING (INSERT)	METAL PART OF SPRING TO GO AGAINST TENSION BOLT
13	362-1681	1	UHMW SLEEVE (1.56" X 14.75")	

NOT SHOWN:

140-1373	-	DANGER RESTRAINT BAR (18")
140-1374	-	DANGER RESTRAINT BAR (24")
140-1375	-	DANGER RESTRAINT BAR (30")
140-1376	-	DANGER RESTRAINT BAR (36")

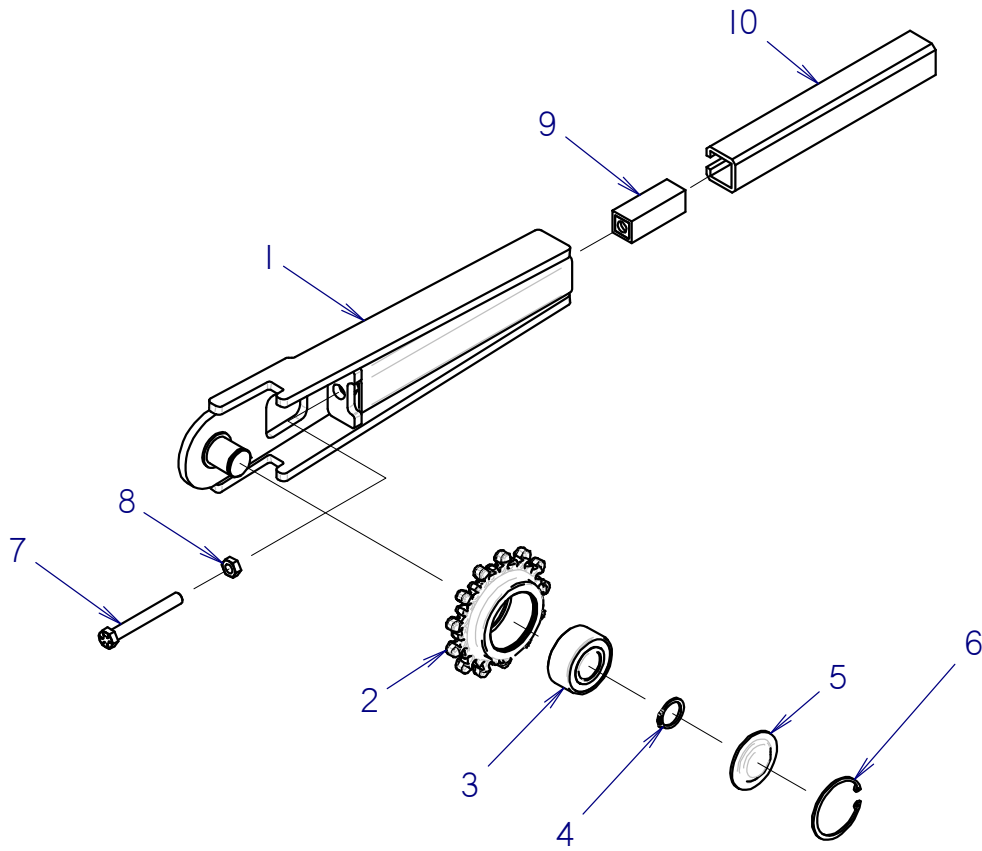
FOOTNOTES:

1. REF. #1 IS SPECIFIC TO EACH BOOM ASSEMBLY, REF. #2 THRU #7 ARE COMMON FOR ALL THE ABOVE LISTED BOOM ASSEMBLIES.

NOTE:

1. USE 140-1391 SHORT PIVOT STUB WITH 140-1394 18" BOOM ASM (19K), USE 145-562 PIVOT STUB (1 9/16" X 14.75") FOR ALL OTHERS.

BOOM ASSEMBLIES 35K (NON-LUBE)



BOOM ASSEMBLIES 35K (NON-LUBE)

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	140-1205	-	24" BOOM ASM (35K)	SEE FOOTNOTE 1
1	140-1200	1	24 INCH BOOM WELDMENT	
	140-1206	-	30" BOOM ASM (35K)	SEE FOOTNOTE 1
1	140-1201	1	30 INCH BOOM WELDMENT	
	140-1207	-	36" BOOM ASM (35K)	SEE FOOTNOTE 1
1	140-1202	1	36 INCH BOOM WELDMENT	
	140-1397	-	48" BOOM ASM (35K)	SEE FOOTNOTE 1
1	140-1382	1	48 INCH BOOM WELDMENT	
	140-1424		ROLLER ASM 35K (NON-LUBE)	INCLUDES REF NO.'S 2 THRU 6
2	375-1161	1	SPROCKET 35K (NON-LUBE)	
3	125-1125	1	BALL BEARING (1.575")	
4	118-021	1	EXTERNAL SNAP RING (1.500")	
5	302-1838	1	DUST COVER	
6	115-451	1	INTERNAL SNAP RING (3.343")	
7	105-1445	1	BOLT (5/8 NC X 5 FULL THREAD, HHCS)	SEE FOOTNOTE 2
8	105-403	1	JAM NUT (5/8-NC)	
9	105-2065	1	LONG SPRING (INSERT)	METAL PART OF SPRING TO GO AGAINST TENSION BOLT
10	362-1681	1	UHMW SLEEVE (1.56" X 14.75")	

NOT SHOWN:

140-1374	-	DANGER RESTRAINT BAR (24")
140-1375	-	DANGER RESTRAINT BAR (30")
140-1376	-	DANGER RESTRAINT BAR (36")
140-1377	-	DANGER RESTRAINT BAR (48")

FOOTNOTES:

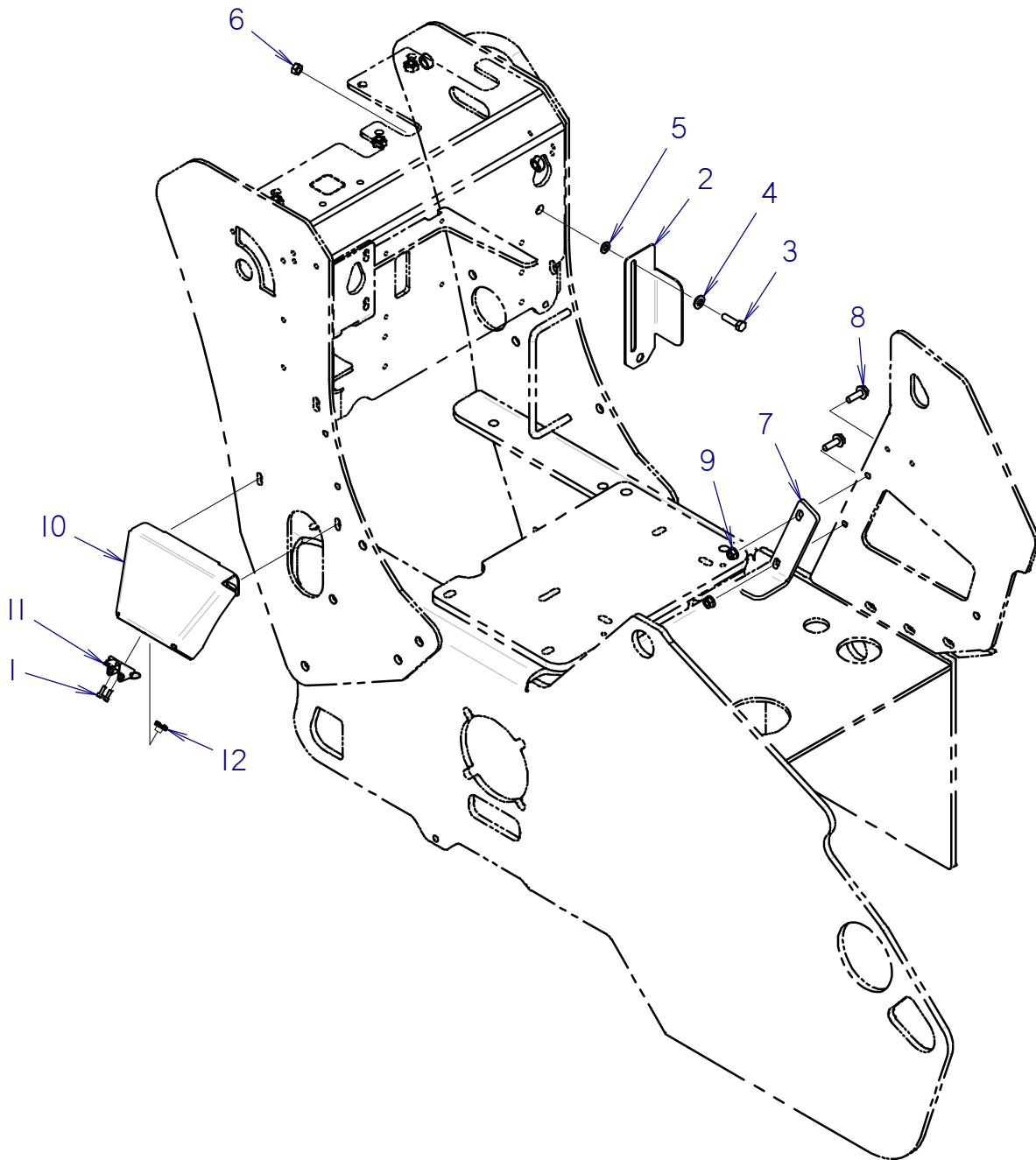
- REF. #1 IS SPECIFIC TO EACH BOOM ASSEMBLY, REF. #2 THRU #10 ARE COMMON FOR ALL THE ABOVE LISTED BOOM ASSEMBLIES.
- BOLT 105-1445 IS USED WITH BOOM ASSEMBLY 140-1205. USE BOLT 105-2429 WITH BOOM ASSEMBLIES 140-1206, 140-1207, AND 140-1397.

NOTE:

- USE 145-562 PIVOT STUB (1 9/16" X 14.75") WITH ALL BOOM ASSEMBLIES

EC KIT

C16X / C24X / C30X



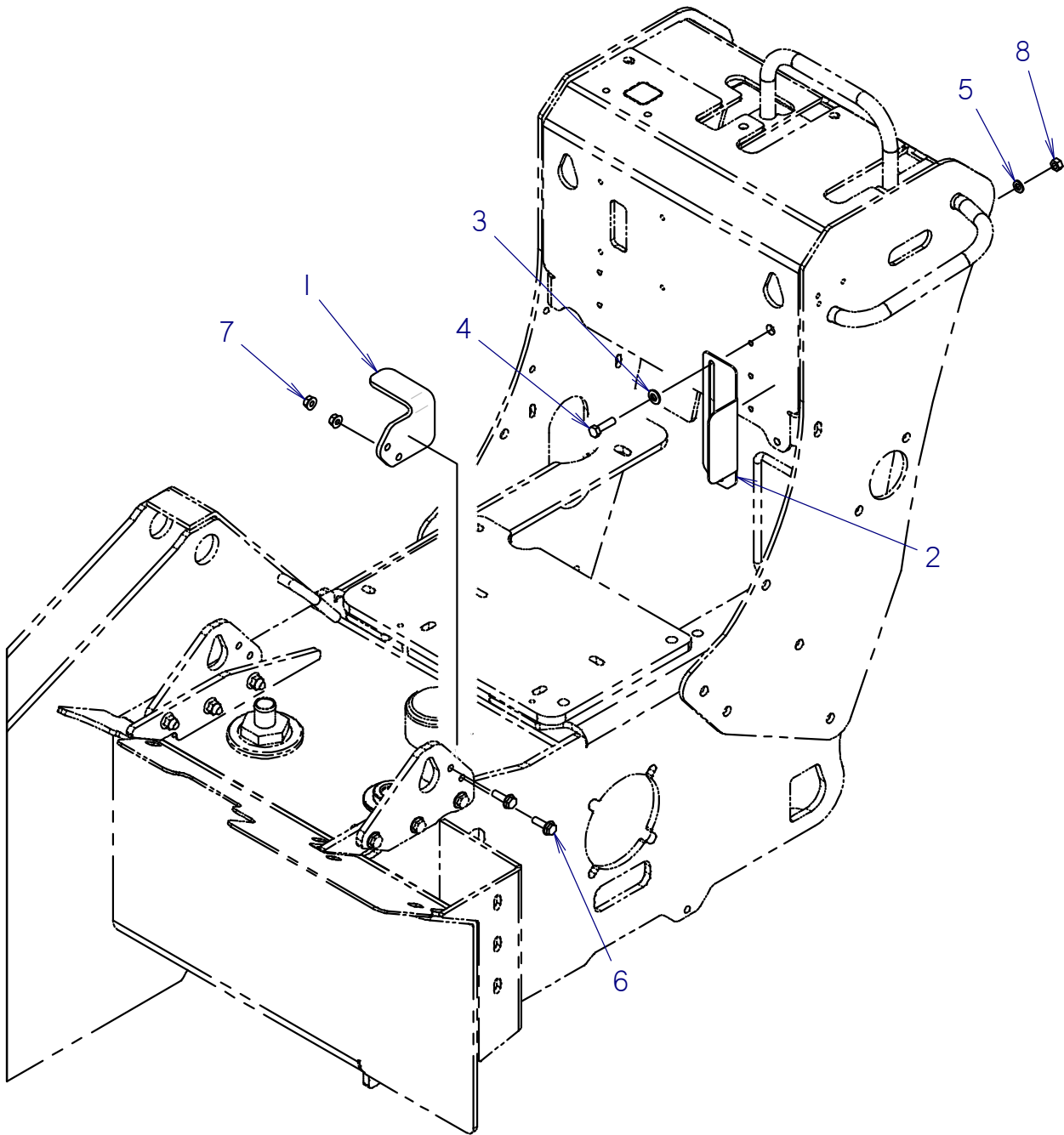
EC KIT
C16X / C24X / C30X

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	106-715	2	SCREW (M4-0.70 X 12MM, SOC)	
2	302-2414	1	LOCK - MANUAL COMPARTMENT	
3	106-327	1	SCREW (M8-1.25 X 30MM)	
4	108-111	1	WASHER (5/16")	
5	106-395	1	WASHER (M8)	
6	106-078	1	NUT (M8-1.25)	
7	302-2413	1	LOCK - STOP	SUNBELT GREEN PART #333-1014
8	106-381	2	FLG LK SCREW (M8-1.25 X 25MM)	
9	106-386	2	FLG LOCKNUT (M8-1.25)	
10	302-0473	1	FUEL FILL COVER	
11	105-2023	1	DRAW LATCH- W/LOCK	
12	106-956	2	M4-.70 MM NYLON INSERT NUT	

NOT SHOWN:

FOOTNOTES:

NOTE:

EC KIT
C12X

EC KIT C12X

REF PART NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	302-4663	1	LOCK - STOP (CX - NO TOWER)	
2	302-2414	1	LOCK - MANUAL COMPARTMENT	
3	108-111	1	WASHER (5/16")	
4	106-327	1	SCREW (M8-1.25 X 30MM)	
5	106-395	1	WASHER (M8)	
6	106-381	2	FLG LK SCREW (M8-1.25 X 25MM)	
7	106-386	2	FLG LOCKNUT (M8-1.25)	
8	106-078	1	NUT (M8-1.25)	

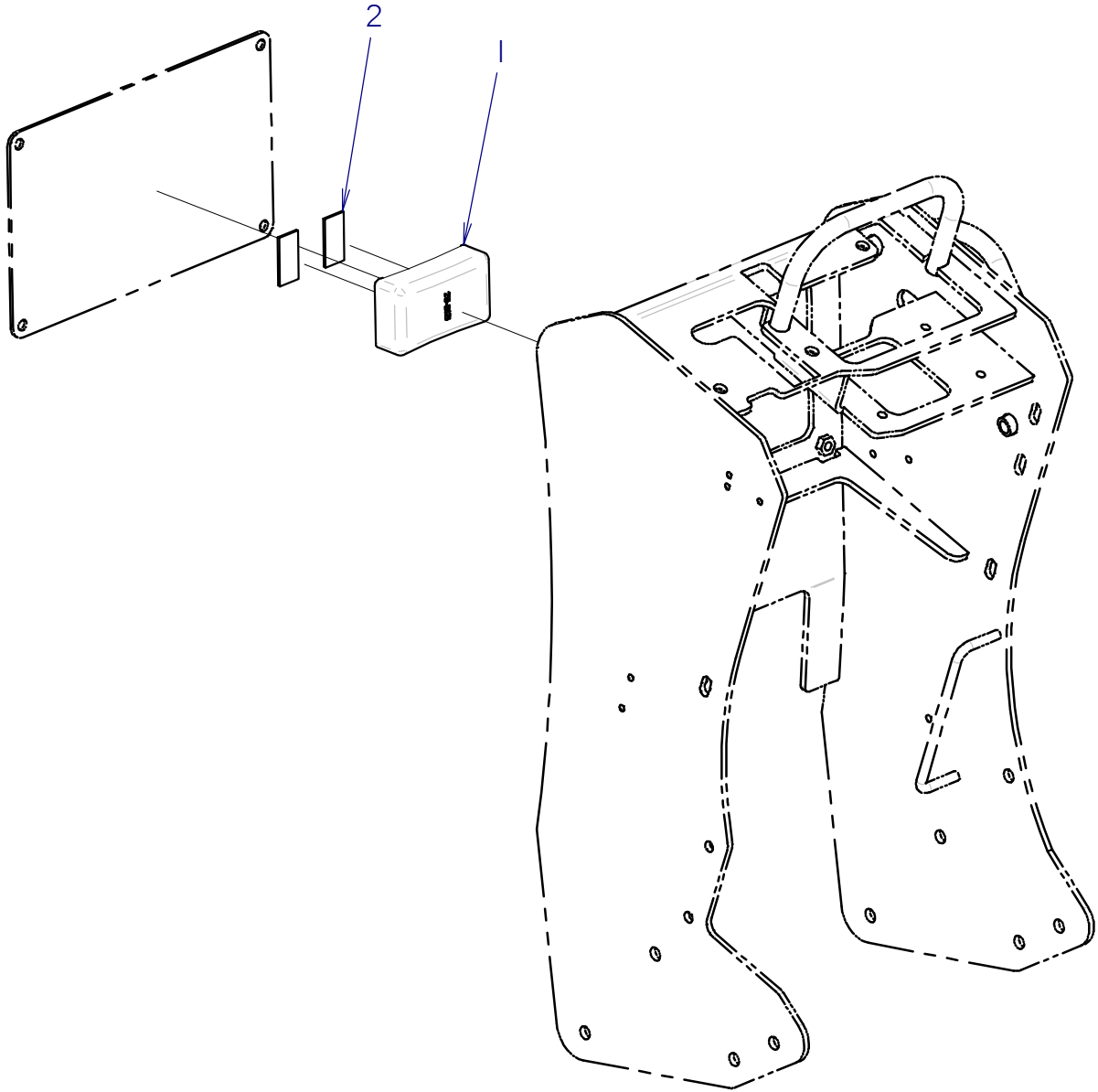
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FOOTNOTES:

NOTE:

GPS KIT LOCATION

C12/C12X



GPS KIT LOCATION

C12/C12X

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	190-2828		HOME DEPOT ONLY BATTERY POWERED GPS	
1	215-2625	1	HOME DEPOT RENTAL GPS UNIT	SEE FOOTNOTE I
2	110-366	2	VELCRO STRIP (1", SOLD PER IN)	SEE FOOTNOTE I

NOT SHOWN:

FOOTNOTES:

I. MOUNTS TO CENTER OF #302-0289 REAR COVER IN #350-4658 CONTROL TOWER.

NOTE:

MISCELLANEOUS

Torque Information

Tightening Guidelines

Values given on the following pages are a guide. Do not use these values if a different torque value or tightening procedure is given for specific application. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class fasteners.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, tighten only to torque value of original fastener.

Make sure fastener threads are clean and that the threads are properly started. This will prevent them from cross threading or galling when tightened.

Lubed means cleaned, dry bolts lubricated with a standard, medium-viscosity machine oil. Lubricate all contact areas of the bolts and washers. Lubricating the bolts is the suggested torque method.

SAE Bolt Torque

Torque estimates based on clamp load (75% of proof strength) as specified in SAE J429 and ASME 574.

Diameter and Thread Pitch	SAE Grade 5 		SAE Grade 8 		Socket Head Cap Screw 	
	Dry	Lubed	Dry	Lubed	Dry	Lubed
1/4-20	101 in•lb 11.4 N•m	76 in•lb 8.6 N•m	143 in•lb 16.2 N•m	107 in•lb 12.1 N•m	168 in•lb 19 N•m	120 in•lb 13.6 N•m
1/4-28	116 in•lb 13.1 N•m	87 in•lb 9.8 N•m	147 in•lb 16.6 N•m	123 in•lb 13.9 N•m	192 in•lb 21.7 N•m	144 in•lb 16.3 N•m
5/16-18	209 in•lb 23.6 N•m	157 in•lb 17.7 N•m	295 in•lb 33.3 N•m	221 in•lb 25 N•m	348 in•lb 39.3 N•m	264 in•lb 29.8 N•m
5/16-24	231 in•lb 26.1 N•m	174 in•lb 19.7 N•m	327 in•lb 36.9 N•m	245 in•lb 27.7 N•m	384 in•lb 43.4 N•m	288 in•lb 32.5 N•m
3/8-16	372 in•lb 42 N•m	276 in•lb 31.2 N•m	44 ft•lb 59.7 N•m	33 ft•lb 44.7 N•m	51 ft•lb 69.1 N•m	38 ft•lb 51.5 N•m
3/8-24	420 in•lb 47.5 N•m	312 in•lb 35.3 N•m	49 ft•lb 66.4 N•m	37 ft•lb 50.2 N•m	58 ft•lb 78.6 N•m	43 ft•lb 58.3 N•m
7/16-14	49 ft•lb 66.4 N•m	37 ft•lb 50.2 N•m	70 ft•lb 94.9 N•m	52 ft•lb 70.5 N•m	81 ft•lb 109.8 N•m	61 ft•lb 82.7 N•m
7/16-20	55 ft•lb 74.6 N•m	41 ft•lb 55.6 N•m	78 ft•lb 105.8 N•m	58 N•m 78.6 N•m	91 ft•lb 123.4 N•m	68 ft•lb 92.2 N•m
1/2-13	75 ft•lb 101.7 N•m	57 ft•lb 77.3 N•m	106 ft•lb 143.7 N•m	80 ft•lb 108.5 N•m	124 ft•lb 168.1 N•m	93 ft•lb 126.1 N•m
1/2-20	85 ft•lb 115.2 N•m	64 ft•lb 86.8 N•m	120 ft•lb 162.7 N•m	90 ft•lb 122 N•m	140 ft•lb 189.8 N•m	105 ft•lb 142.4 N•m
5/8-11	150 ft•lb 203.4 N•m	113 ft•lb 153.2 N•m	212 ft•lb 287.4 N•m	159 ft•lb 215.6 N•m	238 ft•lb 322.7 N•m	179 ft•lb 242.7 N•m
5/8-18	170 ft•lb 230.5 N•m	127 ft•lb 172.2 N•m	240 ft•lb 325.4 N•m	180 ft•lb 224 N•m	270 ft•lb 366.1 N•m	202 ft•lb 273.9 N•m
3/4-10	267 ft•lb 362 N•m	200 ft•lb 271.2 N•m	376 ft•lb 509.8 N•m	282 ft•lb 382.3 N•m	423 ft•lb 573.5 N•m	317 ft•lb 429.8 N•m
3/4-16	297 ft•lb 402.7 N•m	223 ft•lb 302.3 N•m	420 ft•lb 569.4 N•m	315 ft•lb 427.1 N•m	472 ft•lb 640 N•m	354 ft•lb 480 N•m
7/8-9	429 ft•lb 581.6 N•m	322 ft•lb 436.6 N•m	606 ft•lb 821.6 N•m	455 ft•lb 616.9 N•m	682 ft•lb 924.7 N•m	511 ft•lb 692.8 N•m
7/8-14	474 ft•lb 642.7 N•m	355 ft•lb 481.3 N•m	669 ft•lb 907 N•m	502 ft•lb 680.6 N•m	752 ft•lb 1019.6 N•m	564 ft•lb 791.8 N•m
1-8	644 ft•lb 873.1 N•m	483 ft•lb 654.9 N•m	909 ft•lb 1232.4 N•m	681 ft•lb 923.3 N•m	1022 ft•lb 1385.6 N•m	767 ft•lb 1039.9 N•m
1-12	722 ft•lb 978.9 N•m	542 ft•lb 734.9 N•m	1020 ft•lb 1382.9 N•m	765 ft•lb 1037.2 N•m	1147 ft•lb 1551.1 N•m	860 ft•lb 1166 N•m

Metric Bolt Torque

Torque estimates based on clamp load (75% of proof strength) as specified in ISO 898-1.

Size and Thread Pitch	Class 8.8		Class 10.9		12.9 Socket Head Cap Screw	
	Dry	Lubed	Dry	Lubed	Dry	Lubed
M5 X 0.80	54 in•lb 6.1 N•m	41 in•lb 4.6 N•m	78 in•lb 8.8 N•m	59 in•lb 6.7 N•m	91 in•lb 10.3 N•m	68 in•lb 7.7 N•m
M6 X 1.00	92 in•lb 10.4 N•m	69 in•lb 7.8 N•m	133 in•lb 15 N•m	99 in•lb 11.2 N•m	156 in•lb 17.6 N•m	116 in•lb 13.1 N•m
M7 X 1.00	156 in•lb 17.6 N•m	116 in•lb 13.1 N•m	222 in•lb 25.1 N•m	167 in•lb 18.9 N•m	260 in•lb 29.4 N•m	195 in•lb 22 N•m
M8 X 1.25	225 in•lb 25.4 N•m	169 in•lb 19.1 N•m	333 in•lb 37.6 N•m	242 in•lb 31.3 N•m	377 in•lb 42.6 N•m	284 in•lb 32.1 N•m
M10 X 1.50	37 ft•lb 50.2 N•m	28 ft•lb 38 N•m	53 ft•lb 71.9 N•m	40 ft•lb 54.2 N•m	62 ft•lb 84.1 N•m	47 ft•lb 63.7 N•m
M12 X 1.75	65 ft•lb 88.1 N•m	49 ft•lb 66.4 N•m	93 ft•lb 126.1 N•m	69 ft•lb 93.6 N•m	108 ft•lb 146.4 N•m	81 ft•lb 109.8 N•m
M14 X 2.00	104 ft•lb 141 N•m	78 ft•lb 105.8 N•m	148 ft•lb 200.7 N•m	111 ft•lb 150.5 N•m	173 ft•lb 234.6 N•m	130 ft•lb 176.3 N•m
M16 X 2.00	161 ft•lb 218.3 N•m	121 ft•lb 164.1 N•m	230 ft•lb 311.8 N•m	172 ft•lb 233.2 N•m	269 ft•lb 364.7 N•m	202 ft•lb 273.9 N•m
M18 X 2.50	222 ft•lb 301 N•m	167 ft•lb 226.4 N•m	318 ft•lb 431.2 N•m	238 ft•lb 322.7 N•m	372 ft•lb 504.4 N•m	279 ft•lb 378.3 N•m
M20 X 2.50	314 ft•lb 425.7 N•m	235 ft•lb 318.6 N•m	449 ft•lb 608.8 N•m	337 ft•lb 456.9 N•m	525 ft•lb 711.8 N•m	394 ft•lb 534.2 N•m
M22 X 2.50	428 ft•lb 580.3 N•m	321 ft•lb 435.2 N•m	613 ft•lb 831.1 N•m	460 ft•lb 623.7 N•m	716 ft•lb 970.8 N•m	537 ft•lb 728.1 N•m
M24 X 3.00	543 ft•lb 736.2 N•m	407 ft•lb 551.8 N•m	776 ft•lb 1052.1 N•m	582 ft•lb 789.1 N•m	908 ft•lb 1231.1 N•m	681 ft•lb 923.3 N•m
M27 X 3.00	796 ft•lb 1079.2 N•m	597 ft•lb 809.4 N•m	1139 ft•lb 1544.3 N•m	854 ft•lb 1157.9 N•m	1331 ft•lb 1804.6 N•m	998 ft•lb 1353.1 N•m
M30 X 3.50	1079 ft•lb 1462.9 N•m	809 ft•lb 1096.9 N•m	1543 ft•lb 2092 N•m	1158 ft•lb 1570 N•m	1804 ft•lb 2445.9 N•m	1353 ft•lb 1834.4 N•m
M33 X 3.50	1468 ft•lb 1990.3 N•m	1101 ft•lb 1492.8 N•m	2101 ft•lb 2848.6 N•m	1576 ft•lb 2136.8 N•m	2455 ft•lb 3328.5 N•m	1842 ft•lb 2497.4 N•m
M36 X 4.00	1886 ft•lb 2557.1 N•m	1415 ft•lb 1918.5 N•m	2699 ft•lb 3659.4 N•m	2024 ft•lb 2744.2 N•m	3154 ft•lb 4276.3 N•m	2366 ft•lb 3207.9 N•m

Prevailing Torque Locknut Torque

Torque relationships for electrodeposited zinc and lubricated all-metal prevailing torque locknuts.

Torque minimum and maximum estimates based on clamp load (75% of proof strength) for appropriate grade of bolt.

Locknut	Grade B Hex		Grade C Hex		Grade F Hex Flange		Grade G Hex Flange	
	US	Metric	US	Metric	US	Metric	US	Metric
1/4-20	7-10 ft•lb	9-13 N•m	8-12 ft•lb	11-16 N•m	6-8 ft•lb	8-11 N•m	9-11 ft•lb	12-15 N•m
1/4-28	8-11 ft•lb	11-15 N•m	9-12 ft•lb	12-16 N•m	7-9 ft•lb	9-12 N•m	10-13 ft•lb	13-17 N•m
5/16-18	13-18 ft•lb	17-24 N•m	16-21 ft•lb	21-28 N•m	13-17 ft•lb	17-23 N•m	18-23 ft•lb	24-43 N•m
5/16-24	14-19 ft•lb	19-25 N•m	18-23 ft•lb	24-31 N•m	14-18 ft•lb	19-24 N•m	20-26 ft•lb	27-35 N•m
3/8-16	16-20 ft•lb	21-27 N•m	28-37 ft•lb	38-50 N•m	23-29 ft•lb	31-39 N•m	33-41 ft•lb	44-50 N•m
3/8-24	16-22 ft•lb	21-30 N•m	32-42 ft•lb	43-57 N•m	26-33 ft•lb	35-44 N•m	37-47 ft•lb	50-63 N•m
7/16-14	23-32 ft•lb	31-43 N•m	45-59 ft•lb	61-80 N•m	37-47 ft•lb	50-63 N•m	52-66 ft•lb	70-89 N•m
7/16-20	24-34 ft•lb	32-46 N•m	51-66 ft•lb	69-89 N•m	41-52 ft•lb	55-70 N•m	58-74 ft•lb	78-100 N•m
1/2-13	37-50 ft•lb	50-67 N•m	69-90 ft•lb	93-122 N•m	57-72 ft•lb	77-97 N•m	80-101 ft•lb	108-137 N•m
1/2-20	38-53 ft•lb	51-72 N•m	78-102 ft•lb	105-138 N•m	64-81 ft•lb	87-110 N•m	90-114 ft•lb	122-154 N•m
9/16-12	50-70 ft•lb	67-95 N•m	100-130 ft•lb	135-176 N•m	82-103 ft•lb	111-139 N•m	115-146 ft•lb	156-198 N•m
9/16-18	58-78 ft•lb	78-105 N•m	111-146 ft•lb	150-198 N•m	91-115 ft•lb	123-156 N•m	128-163 ft•lb	173-221 N•m
5/8-11	70-95 ft•lb	95-129 N•m	138-180 ft•lb	187-224 N•m	113-143 ft•lb	153-194 N•m	159-201 ft•lb	215-272 N•m
5/8-18	73-98 ft•lb	99-133 N•m	156-204 ft•lb	211-276 N•m	127-161 ft•lb	172-218 N•m	180-228 ft•lb	224-309 N•m
3/4-10	125-165 ft•lb	169-223 N•m	245-320 ft•lb	332-434 N•m	200-253 ft•lb	271-343 N•m	282-357 ft•lb	382-484 N•m
3/4-16	120-165 ft•lb	162-223 N•m	273-357 ft•lb	370-484 N•m	223-282 ft•lb	302-382 N•m	315-399 ft•lb	427-541 N•m
7/8-9	185-250 ft•lb	251-339 N•m	394-515 ft•lb	534-698 N•m				
7/8-14	200-270 ft•lb	271-366 N•m	435-568 ft•lb	589-770 N•m				
1-8	275-375 ft•lb	373-508 N•m	591-772 ft•lb	801-1046 N•m				
1-12	290-395 ft•lb	393-535 N•m	663-867 ft•lb	899-1175 N•m				
1 1/8-7	294-404 ft•lb	398-547 N•m	837-1095 ft•lb	1135-1484 N•m				
1 1/8-12	412-549 ft•lb	558-744 N•m	939-1227 ft•lb	1273-1663 N•m				
1 1/4-7	375-513 ft•lb	508-695 N•m	1181-1545 ft•lb	1601-2094 N•m				
1 1/4-12	412-549 ft•lb	558-744 N•m	1308-1710 ft•lb	1773-2318 N•m				

**Grades B and F: SAE J429
Grade 5 bolts**

**Grades C and G: SAE J429
Grade 8 bolts**

Torque Values for Other Types of Fasteners

Find the torque for the same size and grade/class of hex nut and multiply that value by the conversion factor listed below to determine recommended torque values for other types of fasteners.

Type	Factor	Example
hex top deformed locknuts	.75	3/8" , grade 5: 31 ft•lb X .75 = 23.25 ft•lb
smooth flange nuts and bolts	1.5	M10, class 8.8: 52 N•m X 1.5 = 78 N•m
serrated flange nuts and bolts	2.0	1/2" , grade 8: 145 N•m X 2.0 = 290 N•m

Lug Nut Torque

Size	Type	Torque (ft•lb)	Torque (N•m)
7/16-NF	cone	75-85	102-115
1/2-NF	cone	90-100	120-135
5/8-NF	flange	275-325	373-440

Do not use these values if a different torque value or tightening procedure is given for specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Torque values are for non-lubricated threads.

Hydraulic Cylinder Bolt Torque

Bolt Size	Bolt PN	Cylinder Repair Kit PN	Torque	
1/2"	106-096	190-165	90-100 ft•lb	120-135 N•m
5/8"	106-097	190-166 & 190-169	180-200 ft•lb	245-270 N•m
3/4"	106-098	190-167 & 190-170	290-325 ft•lb	395-440 N•m
7/8"	106-122	190-172 & 190-174	410-460 ft•lb	550-625 N•m
1"	106-145	190-175 & 190-189	630-700 ft•lb	855-950 N•m
1-1/8"	106-146	190-177	770-850 ft•lb	1045-1170 N•m

IMPORTANT: Do not reuse cylinder piston bolts when rebuilding a hydraulic cylinder. Each cylinder repair kit contains a new bolt. Use it. Lubricate lightly and tighten to value shown on chart.

Replacement O-Rings

Fitting		SAE (Port Seal)			ORFS (Face Seal)			Code 61, Code 62 4-Bolt Flange	
Size (Inch)	Dash Size	Thread Size	O-Ring		Thread Size	O-Ring		Dash Size	O-Ring P/N
			Dash Size	P/N		Dash Size	P/N		
1/16	1	NA	NA	NA	NA	NA	NA	NA	NA
1/8	2	5/16 - 24	-902	NA	NA	NA	NA	NA	NA
3/16	3	3/8 - 24	-903	NA	NA	NA	NA	NA	NA
1/4	4	7/16 - 20	-904	155-760	9/16 - 18	-011	157-037	NA	NA
5/16	5	1/2 - 20	-905	NA	5/8 - 18	NA	NA	NA	NA
3/8	6	9/16 - 18	-906	155-705	11/16 - 16	-012	157-038	NA	NA
1/2	8	3/4 - 16	-908	155-706	13/16 - 16	-014	157-039	-210	155-759 #
5/8	10	7/8 - 14	-910	155-707	1 - 14	-016	157-040	NA	NA
3/4	12	1-1/16 - 12	-912	155-709	1-3/16 - 12	-018	157-017	-214	155-723
7/8	14	1-3/16 - 12	-914	155-747	1-5/16 - 12	-020	157-042	NA	NA
1	16	1-5/16 - 12	-916	155-748	1-7/16 - 12	-021	155-714	-219	157-029
1-1/4	20	1-5/8 - 12	-920	155-702	1-11/16 - 12	-025	157-129	-222	157-078
1-1/2	24	1-7/8 - 12	-924	157-001	2 - 12	-029	157-130	-225	157-128
2	32	2-1/2 - 12	-932	NA	2-1/2 - 12	-135	NA	-228	500-031
2-1/2	40	3 - 12	NA	NA	NA	NA	NA	-232	157-015 #
3	48	3-1/2 - 12	NA	NA	NA	NA	NA	-237	157-006 #

All part numbers listed above are D90 except for # which is D70.

Thread size indicates the diameter of the threaded area in fractions of an inch and number of threads per inch.

NA = not a current Ditch Witch® part numbered o-ring, or dash size does not occur in current Ditch Witch applications.

SAE = straight thread fitting that seals by compressing a hard o-ring between a shoulder on the male part and an angular surface at the mouth of the female port.

ORFS = o-ring seal; a fitting that seals by compressing a hard, captive o-ring between two flat parallel faces, one grooved for the o-ring and the other plain to act as the sealing surface.

Related Publications

Component	Ass'y	P/N
Model:		
C16X, C24X, C30X... Parts Manual		053-2871
C16X, C24X, C30X... Operators Manual		053-2869

Filters

Engine (C-16X):		
Air Filter – Briggs.....		195-1794
Air Filter – Briggs (Pre-Cleaner).....		195-1479
Fuel Filter		195-1480
Engine (C-24X):		
Air Filter –(SECONDARY).....		194-039
Air Filter –(PRIMARY).....		194-038
Oil Filter		195-1533
Fuel Filter		195-1536
Engine (C-30X):		
Air Filter –(SECONDARY).....		194-039
Air Filter –(PRIMARY).....		194-038
Oil Filter		500-2093
Fuel Filter		195-1480
Hydraulic:		
Oil Filter Element (spin-on)		150-4388

Optional Kits

O-ring Repair Kit - FLG, ORS & SAE (15 different O-rings)	190-051
O-ring Repair Kit - Field Service (46 different O-rings)	190-052

**A Note To
Ditch Witch
Equipment Owners:**

If your equipment was purchased through a Ditch Witch dealer, there is no need to read further.

However, if you purchased from any other source, please fill out the form on the reverse side and return it to us.

This will enable you to receive updates on this equipment as well as information on new products of interest.

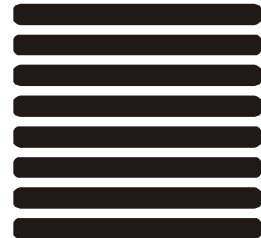
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