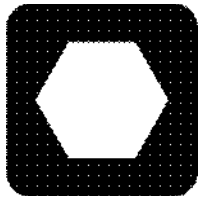


SK800

Parts Manual



Ditch Witch[®]

SK800

ISSUE NO. 02PL-07/17

For Replacement Copy Order **P/N 053-3000**

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:
SK800

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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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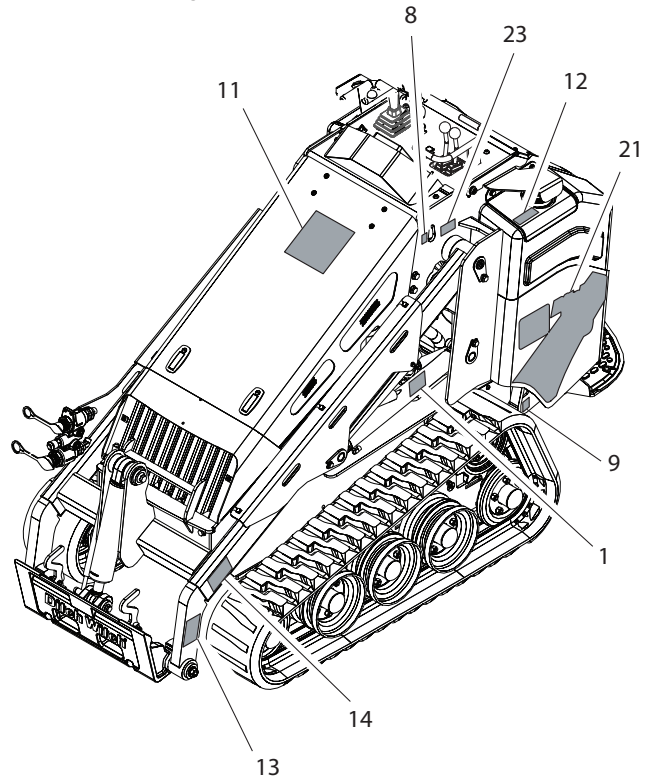
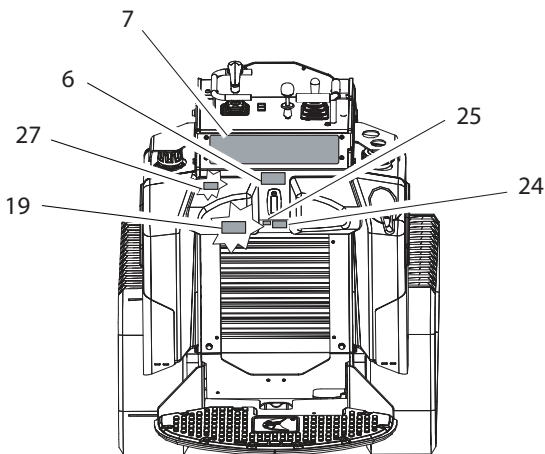
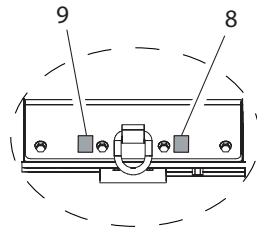
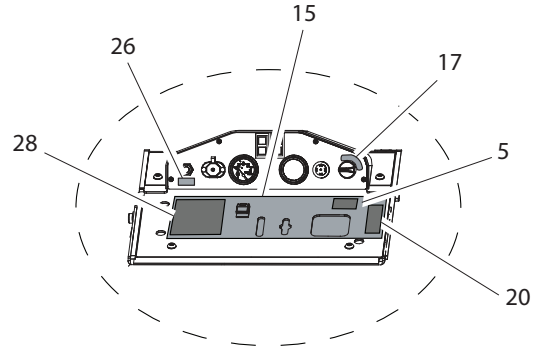
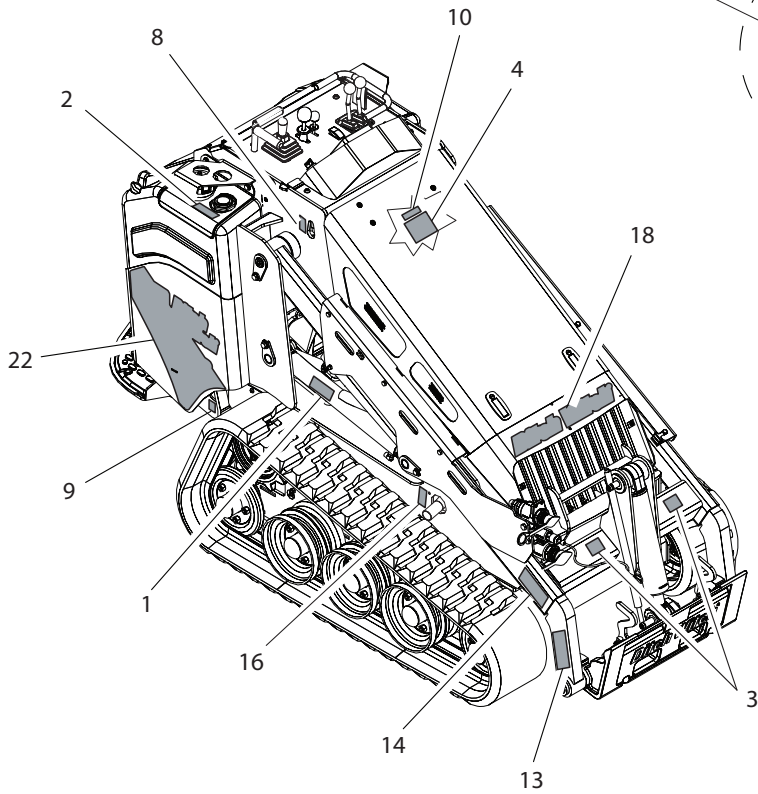
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DECALS

DECAL LOCATION SK800



DECAL LOCATION

SK800

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	270-7462		SK800 SERVICE DECAL KIT	
1	273-413	2	WARNING SECURE CYLINDER	SEE FOOTNOTE 1
2	270-5338	1	ULTRA LOW SULFUR FUEL	
3	270-6304	2	LOCK/UNLOCK	SEE FOOTNOTE 1
4	270-6866	1	LUBRICATION CHART	
5	700-133	1	WARNING ONE CALL NOTIFICATION	
6	273-475	1	WARNING READ OPERATOR MANUAL	
7	270-6869	1	OPERATOR INSTRUCTIONS	
8	274-442	3	LIFT LOCATION	
9	274-318	3	TIE DOWN LOCATION	
10	270-6868	1	FUSE/RELAY BLOCK	
11	270-6513	1	GRAY LOGO	
12	275-120	1	RESERVOIR (THF)	
13	275-184	2	WARNING MOVING PARTS	SEE FOOTNOTE 1
14	275-326	2	WARNING CRUSHING WEIGHT	SEE FOOTNOTE 1
15	270-6865	1	CONTROL PANEL	
16	275-355	1	CAUTION HOT PARTS	
17	700-138	1	IGNITION SWITCH	
18	270-6871	1	GRAY LOGOTYPE 18.5" X 3.25"	
19	270-102	1	NOTICE HYDRAULIC OIL LEVEL	
20	700-009	1	CAUTION WEAR HEARING PROTECTION	
21	270-7401	1	SK800 LFT MODEL ID	
22	270-7400	1	SK800 RT MODEL ID	
23	273-459	1	WARNING NO ETHER/STARTER FLUID	
24	270-6773	1	PATENT	
25	270-6406	1	OPERATOR MANUAL REPLACEMENT	
26	700-259	1	PREHEAT	
27	270-7059	1	COLD START BYPASS	APPLY ON BAR ABOVE BYPASS
28	270-6302	1	JOYSTICK CONTROLLER OVERLAY	SEE FOOTNOTE 2

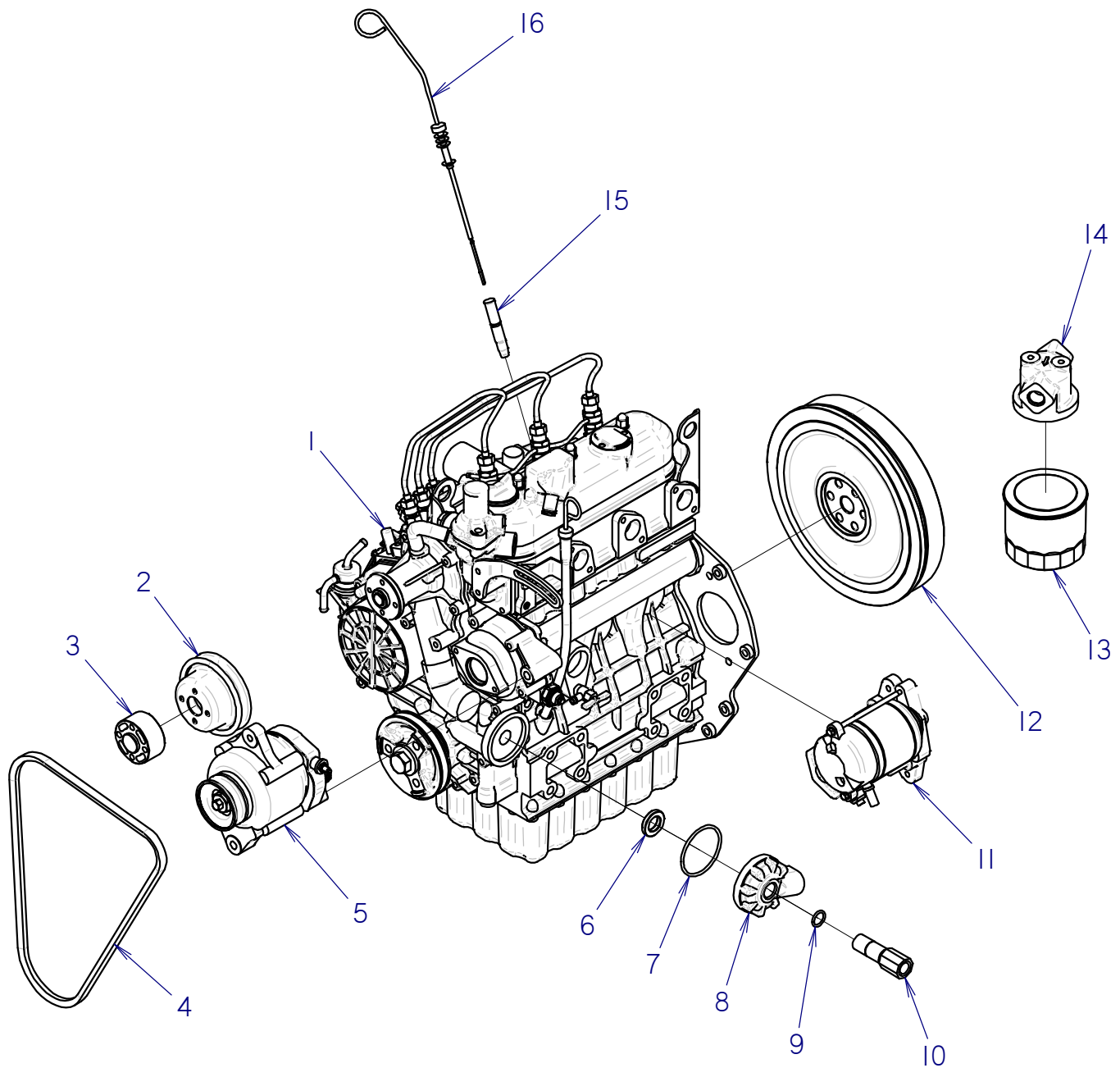
FOOTNOTES

1. NOT PART OF KIT.
2. NOT PART OF KIT. USE WITH SINGLE JOYSTICK OPTION

ENGINE COMPONENTS

ENGINE - KUBOTA D1105

SK750



ENGINE - KUBOTA D1105

SK750

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-1188	1	ENGINE-T4F KUBOTA D1105-E	
2	194-380	1	FAN PULLEY	
3	195-1207	1	FAN SPACER	
4	195-1822	1	FAN BELT	
5	217-453	1	ALTERNATOR	
6	502-165	1	COLLAR	
7	502-166	1	O-RING	
8	502-162	1	BASE (OIL FILTER)	
9	502-163	1	O-RING	
10	502-164	1	PIPE JOINT	
11	194-382	1	STARTER	
12	194-378	1	FLYWHEEL & RING GEAR	
13	194-881	1	OIL FILTER	
14	502-161	1	REMOTE HEAD	
15	500-1178	1	OIL GAUGE GUIDE	
16	500-1179	1	OIL GAUGE (DIPSTICK)	

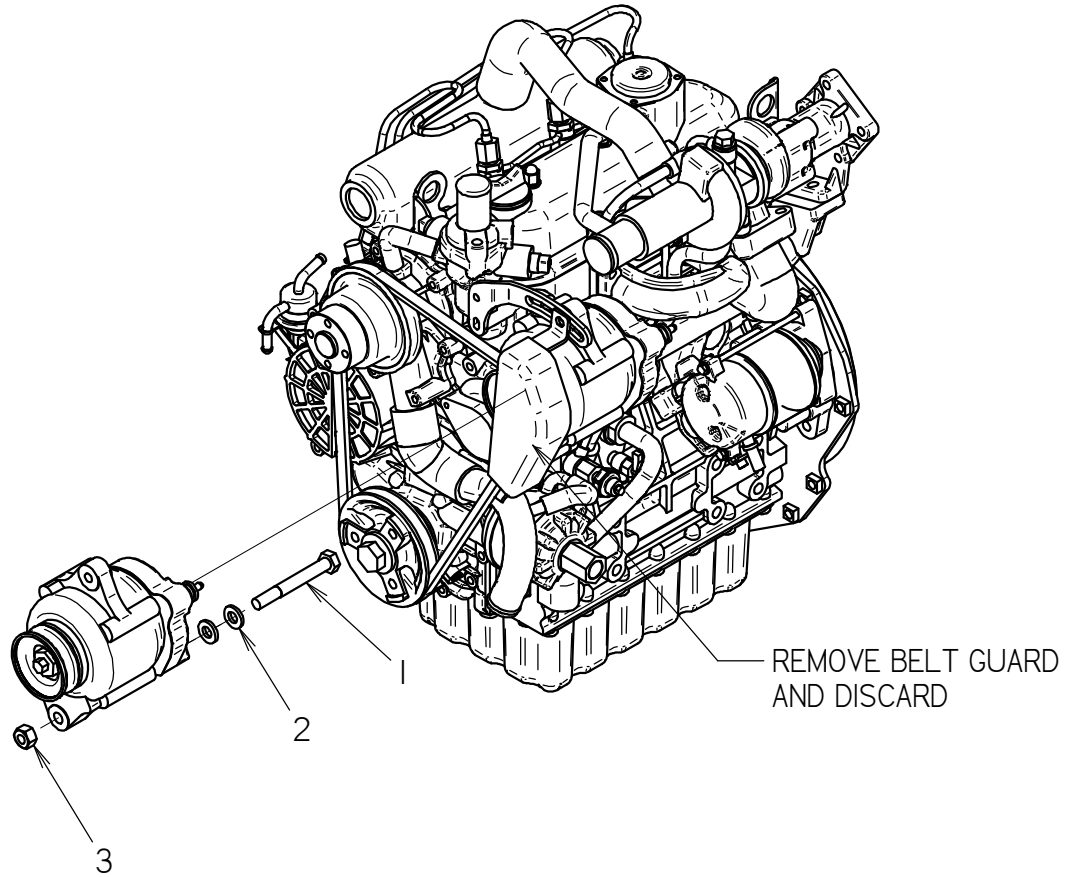
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FOOTNOTES:

NOTE:

ALTERNATOR MOUNTING

SK750 / SK755



ALTERNATOR MOUNTING

SK750 / SK755

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	107-982	1	HHCS M10-1.50 X 85MM,10.9 ZP	SEE FOOTNOTE 1
2	106-396	2	WASHER (M10, HARDENED)	
3	105-894	1	LOCKNUT M10-1.50, PRV TRQ, 10.9I	

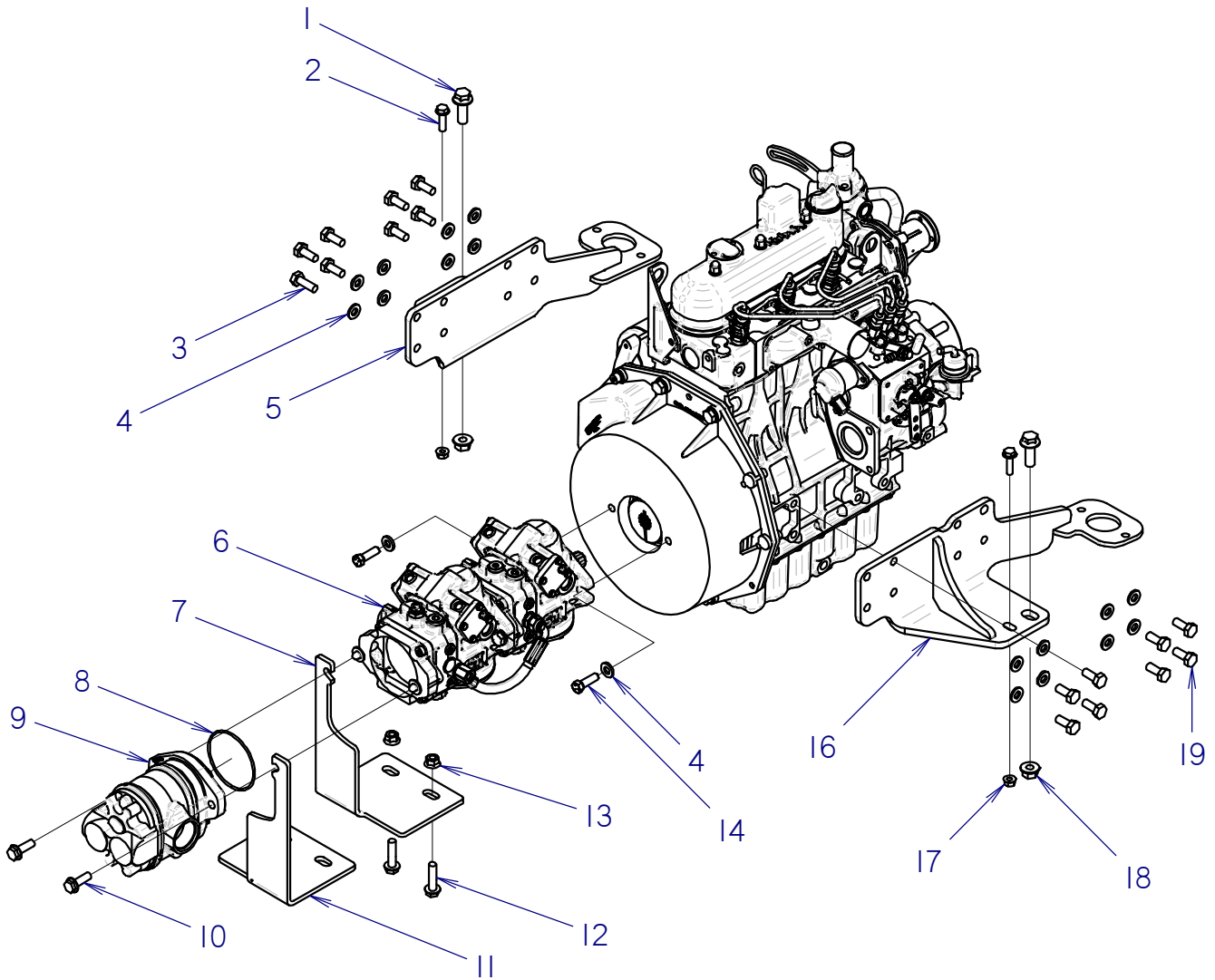
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FOOTNOTES:

1. BOLT 107-982 REPLACES 106-206. BOLT 107-982 IS 5MM SHORTER AND IS INSTALLED FROM THE BACK SIDE OF THE ALTERNATOR BRACKET TO ALLOW FOR EASIER REMOVAL.

NOTE:

ENGINE MOUNTS



ENGINE MOUNTS

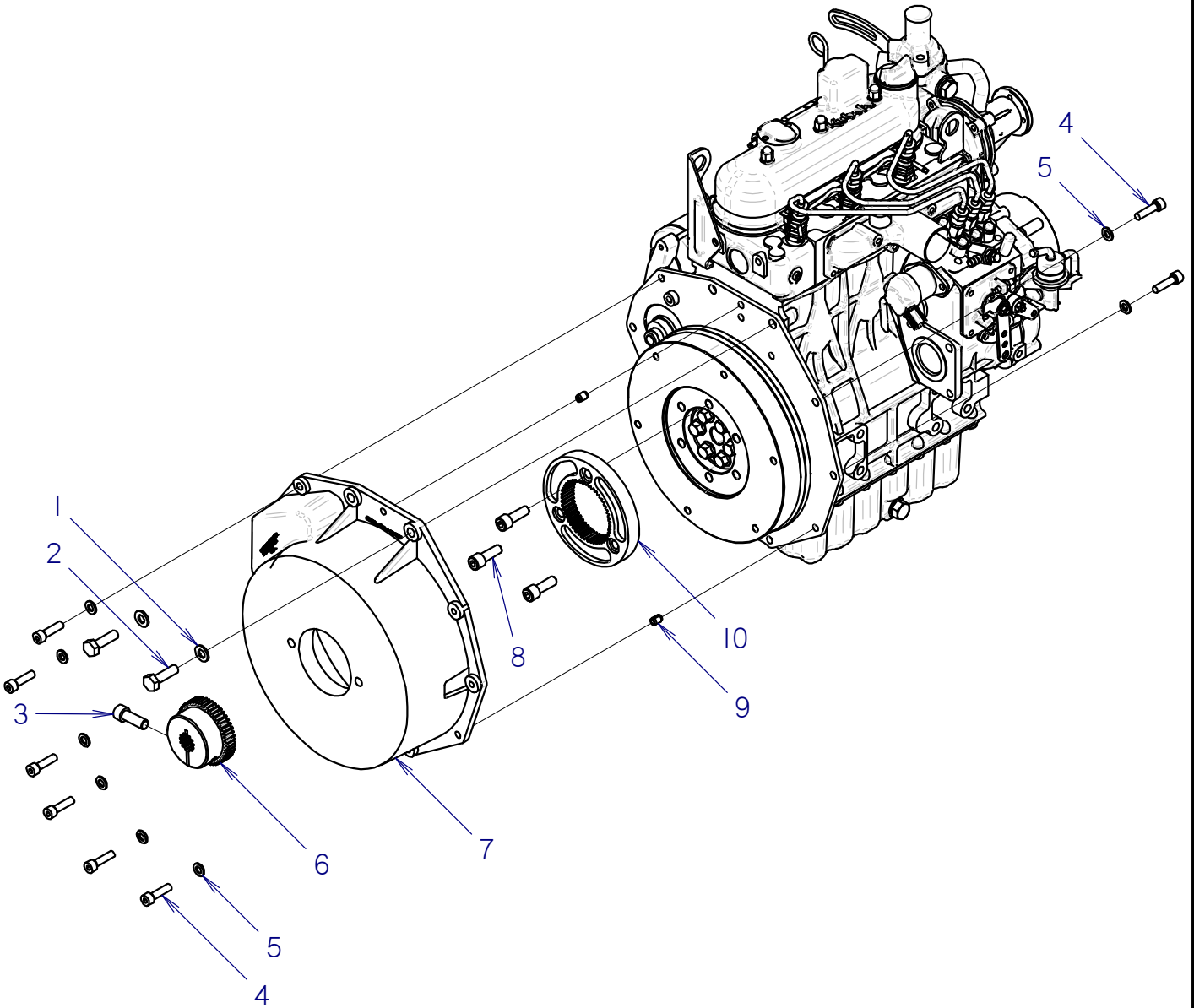
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	106-496	2	FLG SCREW (M12-1.75 X 35MM)	
2	106-163	2	FLG SCREW (M8-1.25 X 30MM)	
3	105-1265	1	SCREW (M10-1.25 X 30MM, 10.9)	USE LOCTITE 277 OR EQUIVALENT - TORQUE TO 32-36 FT-LBS
4	106-396	18	WASHER (M10, HARDENED)	
5	301-9777	1	MOTOR MOUNT	
6	150-2623	1	HYD PUMP TNDM HYDRO 13CC	
7	302-5144	1	PUMP MOUNT	
8	157-041	0	O-RING (152 D70)	INCLUDED WITH 150-2623
9	150-3573	1	HYD PUMP CW DOUBLE DISP GEAR (50/40)	
10	106-164	2	FLG LK SCREW (M10-1.50 X 30MM)	
11	302-5143	1	PUMP MOUNT	
12	105-1597	2	FLG SCREW (M10-1.50 X 40MM)	
13	106-387	2	FLG LOCKNUT (M10-1.50)	
14	105-052	2	BOLT (3/8-NC X 1-1/4")	
16	301-9779	1	MOTOR MOUNT	
17	106-386	2	FLG LOCKNUT (M8-1.25)	
18	106-709	2	FLG LK NUT (M12-1.75)	
19	111-054	15	SCREW (M10-1.25 X 25MM)	USE LOCTITE 277 OR EQUIVALENT - TORQUE TO 32-36 FT-LBS

NOT SHOWN:

FOOTNOTES:

NOTE:

PUMP MOUNT INSTALLATION



PUMP MOUNT INSTALLATION

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
-	195-2573	-	PUMP MOUNT	INCLUDES ITEMS 1-10
1	106-390	2	WASHER (M10)	
2	107-357	2	SCREW (M10-1.25 X 35MM, 8.8)	TORQUE TO 40 FT-LBS (54 N-M)
3	106-305	1	BOLT (7/16-NC X 1-1/4", SOC, GD8)	USE LOCTITE 242 OR EQUIVALENT, TORQUE TO 45 FT-LBS (61 N-M)
4	105-892	8	SCREW (M8-1.25 X 30MM, SOC)	SEE FOOTNOTE 1 & 2
5	106-389	8	WASHER (M8)	
6	195-1125	1	13 TOOTH SPLINE HUB	
7	194-376	1	ENGINE PUMP MOUNT	
8	107-925	3	SCREW (M10-1.25 X 30MM, SOC)	TORQUE TO 40 FT-LBS (54 N-M)
9	N/A	2	ROLL PIN (M8 X 12MM)	
10	194-387	1	PUMP MOUNT FLANGE	SIDE W/ WRITING GOES TOWARD ENGINE

NOT SHOWN:

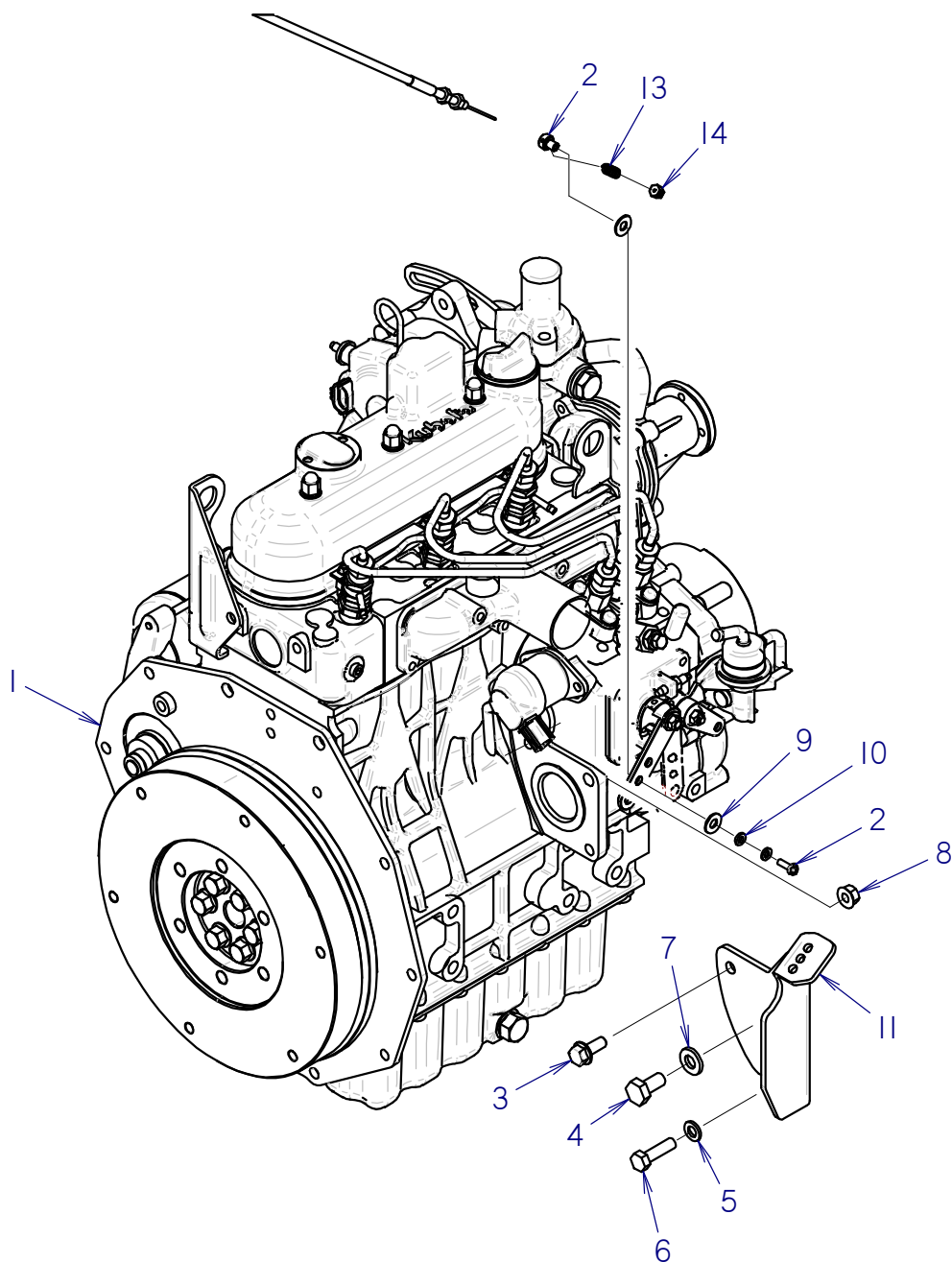
FOOTNOTES:

1. TORQUE TO 13 FT-LBS (18 N-M) -- 2 BOLTS ON ENGINE SIDE OF THE "ENGINE PUMP MOUNT."
2. TORQUE TO 20 FT-LBS (27 N-M) -- 6 BOLTS ON THE PUMP SIDE OF THE "ENGINE PUMP MOUNT."

NOTE:

THROTTLE LINKAGE

SK750 / SK755/ SK752



THROTTLE LINKAGE

SK750 / SK755/ SK752

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-1188	1	ENGINE, T4F KUBOTA D1105-E	
2	196-058	1	CABLE SWIVEL (.081")	
3	106-162	1	FLG SCREW (M8-1.25 X 20MM, GD8)	
4	106-958	1	SCREW (M10-1.25 X 20MM)	
5	106-389	1	WASHER (M8)	
6	106-327	1	SCREW (M8-1.25 X 30MM)	
7	106-396	1	WASHER (M10, HARDENED)	
8	106-386	1	FLG LOCKNUT (M8-1.25)	
9	106-076	2	WASHER (1/4")	
10	106-205	2	WASHER (.191")	
11	327-696	1	THROTTLE BRACKET	
13	115-618	1	COMPRESSION SPRING (.625")	
14	107-912	1	CABLE STOP	

NOT SHOWN:

195-1169 ENGINE, KUBOTA D1105-T TIER 3

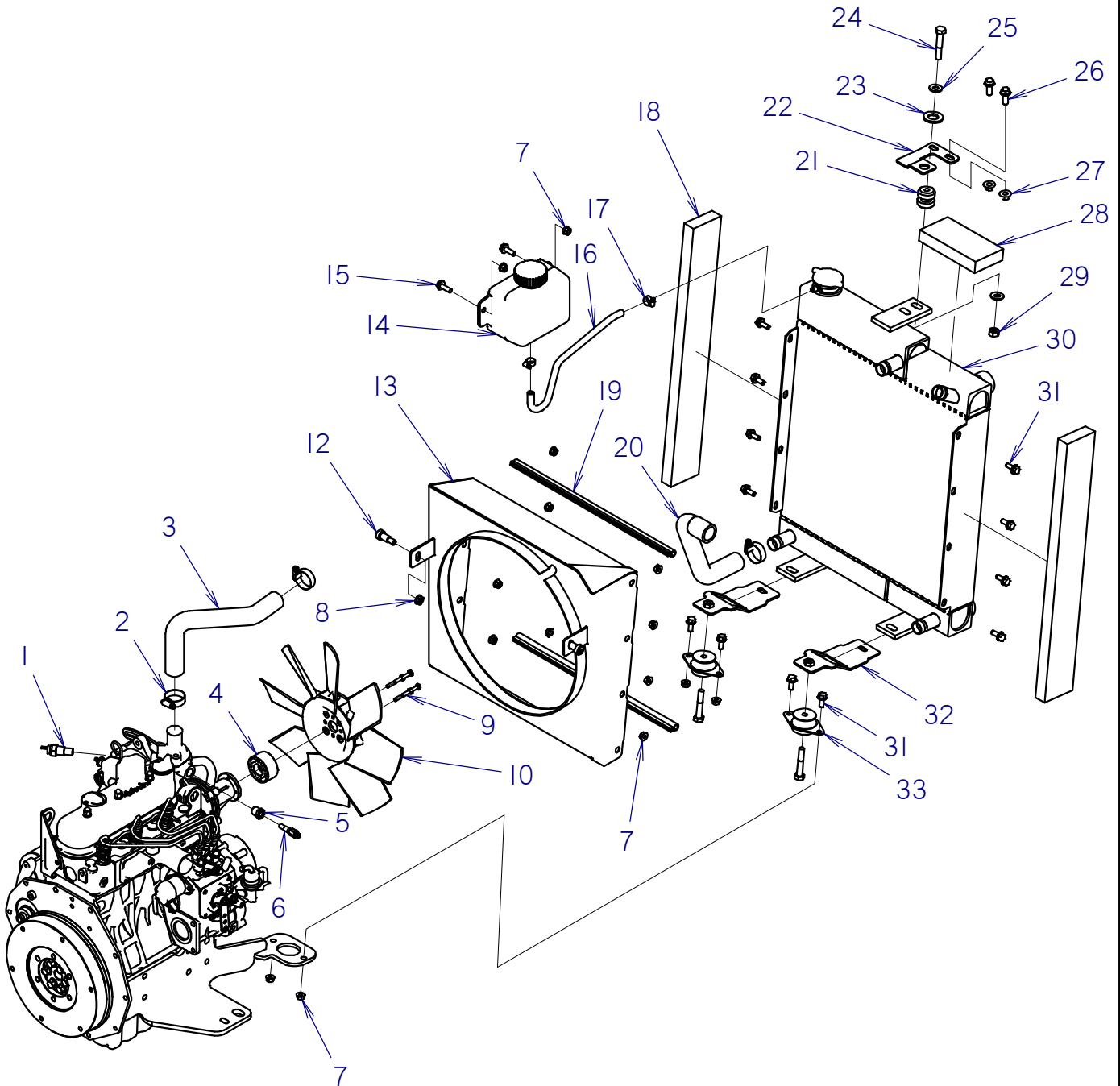
SK755

FOOTNOTES:

NOTE:

FOR THROTTLE CABLE REFER TO ID0417723.

ENGINE COOLING SYSTEM



ENGINE COOLING SYSTEM

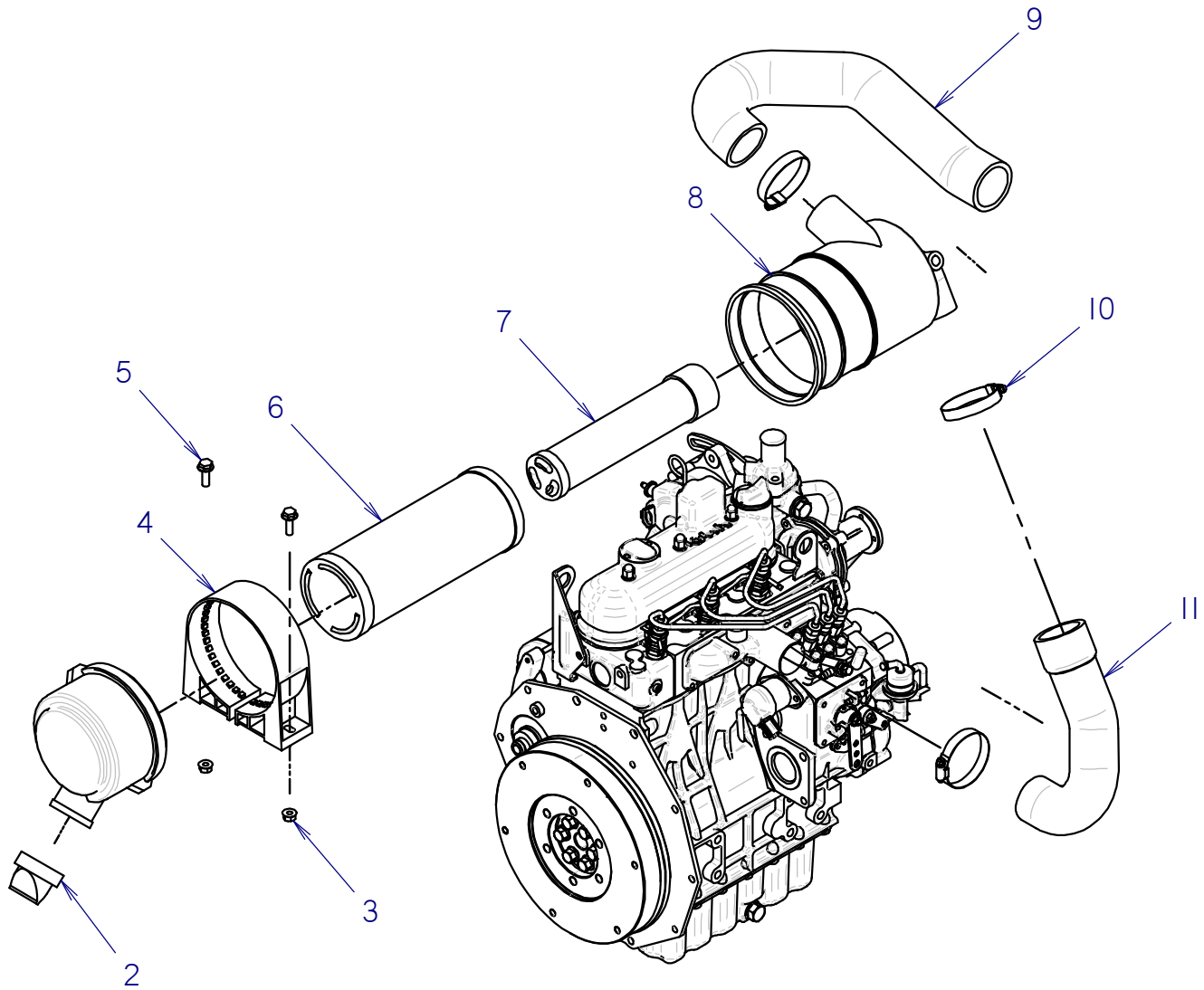
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	213-338	1	TEMPERATURE SWITCH	USE LOCTITE 567
2	110-353	3	WORM CLAMP (3/4" TO 1-1/2")	
3	118-208	1	UPPER RADIATOR HOSE	
4	195-1207	1	FAN SPACER	
5	115-251	1	REDUCER (06N-02NF)	USE LOCTITE 567
6	217-565	1	TEMPERATURE SENDER	USE LOCTITE 567
7	106-386	14	FLG LOCKNUT (M8-1.25)	
8	105-834	2	FLG LOCKNUT (3/8-NC)	
9	105-1056	4	SCREW (M6-1.00 X 40MM)	USE LOCTITE 242 AND TORQUE TO 90 IN-LBS (7.5 FT-LBS, 10 N-M)
10	194-530	1	ENGINE FAN	
12	107-646	2	SHLD BLT (1/2" X 3/4", 3/8-NC)	
13	300-6840	1	FAN SHROUD WELDMENT	
14	362-1899	1	TANK 1 QT.	
15	106-381	2	FLG LK SCREW (M8-1.25 X 25MM)	
16	116-108	14	BULK HOSE (5/16", SOLD PER 1")	
17	110-249	2	WORM CLAMP (1/4" TO 5/8")	
18	118-168	46	SOUND INSULATION	USE 2 @ 23"
19	116-421	34	BULK EDGE (1/8", SOLD PER FT)	USE 2 @ 17"
20	195-1782	1	LOWER RADIATOR HOSE	
21	116-128	1	SHOCK MOUNT	
22	300-6845	1	BRACE	
23	105-975	1	WASHER (3/4")	
24	106-628	3	SCREW (M10-1.50 X 60MM)	
25	105-118	2	WASHER (3/8")	
26	105-826	2	FLG LK BOLT (3/8-NC X 1")	
27	105-814	2	FLG LOCKNUT (3/8-NC)	
28	118-168	6	SOUND INSULATION	USE 1 @ 6"
29	105-894	1	LOCKNUT (M10-1.50, PRV TRQ, 10.9)	
30	195-1268	1	RADIATOR/OIL COOLER	
31	106-162	12	FLG SCREW (M8-1.25 X 20MM, GD8)	
32	301-4998	2	NUT PLATE	
33	116-539	2	ISOLATOR	

NOT SHOWN:

FOOTNOTES:

NOTE:

AIR CLEANER



AIR CLEANER

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	194-093	1	AIR FLITER PARTS ASSY	INCLUDES REF'S 4-8, SEE "NOT SHOWN" BELOW
2	194-761	1	DISCHARGE VALVE	
3	106-386	2	FLG LOCKNUT (M8-1.25)	
4	194-343	1	MOUNTING CLAMP (5.750")	
5	106-381	2	FLG LK SCREW (M8-1.25 X 25MM)	
6	194-038	1	FILTER ELEMENT, PRIMARY	
7	194-039	1	FILTER ELEMENT - SECONDARY	
8	194-093	1	AIR FILTER PARTS ASS'Y	
9	195-2329	1	AIR INTAKE HOSE	
10	110-134	3	WORM CLAMP (2.062" TO 2.750")	
11	195-2328	1	FILTER OUTLET HOSE	

NOT SHOWN:

195-1366

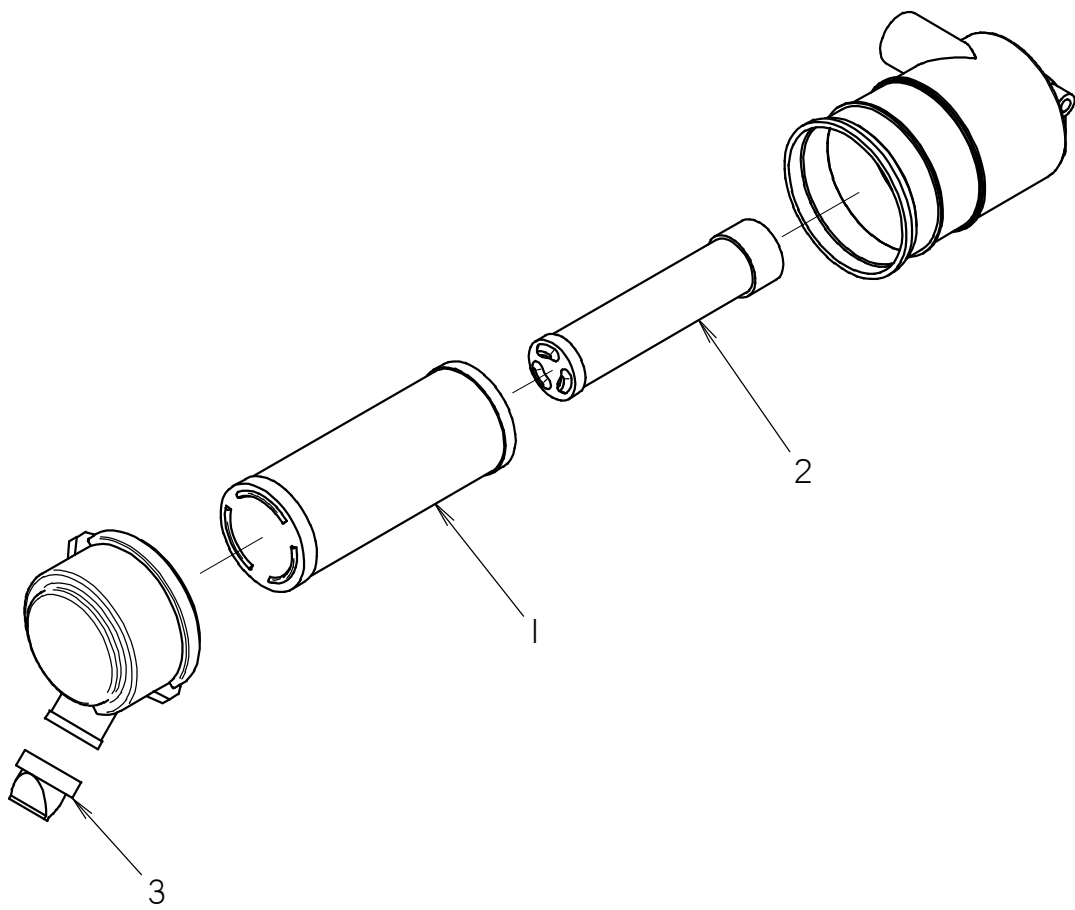
AIR FLITER END CAP

SERVICE PART

FOOTNOTES:

NOTE:

AIR FILTERS



AIR FILTERS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	194-093	-	AIR FILTER PARTS ASS'Y	INCL. REF. #'S 1-3, SEE NOT SHOWN
1	194-038	1	FILTER ELEMENT, PRIMARY	
2	194-039	1	FILTER ELEMENT - SECONDARY	
3	194-761	1	DISCHARGE VALVE	

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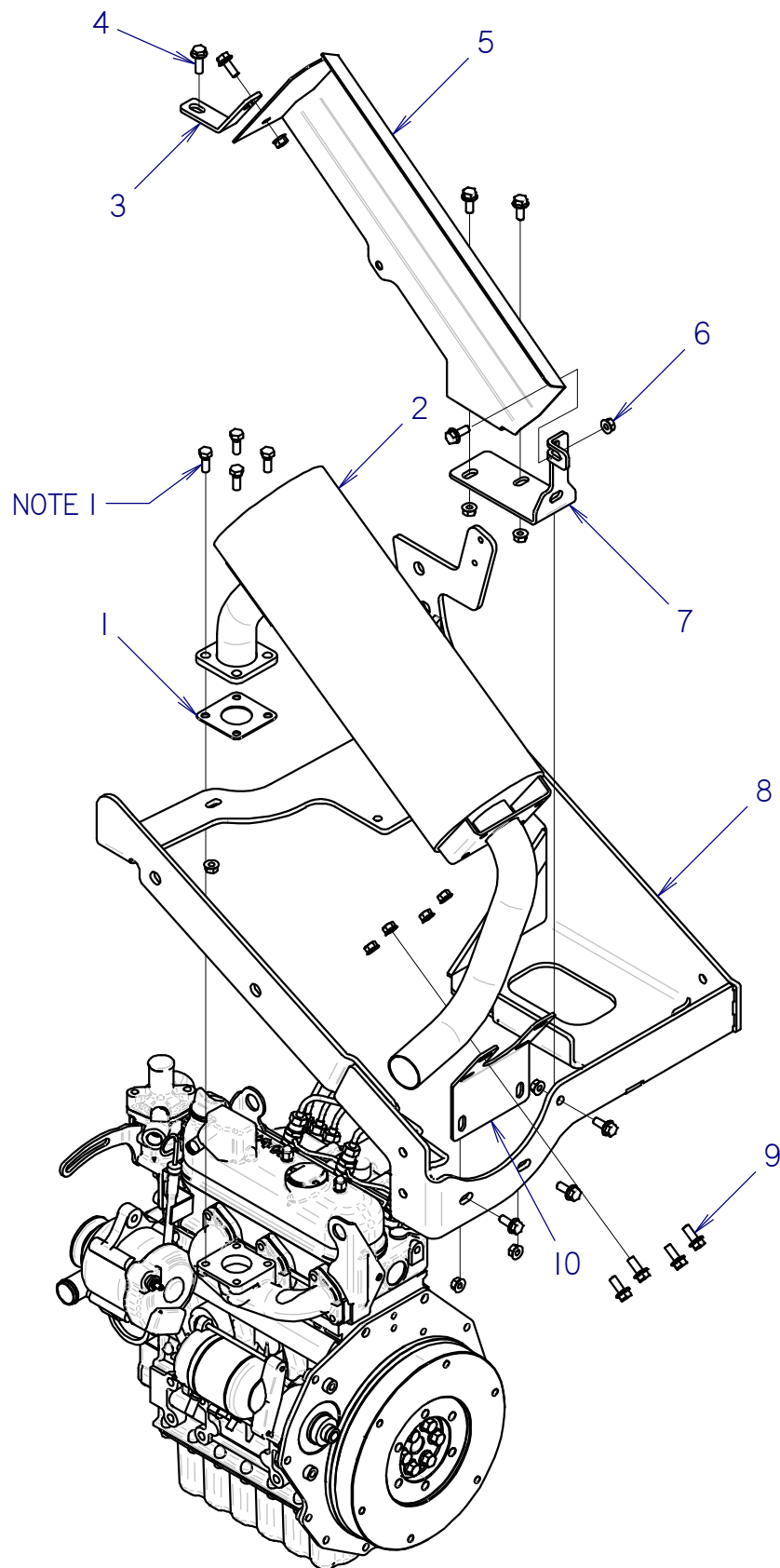
1- 195-1366 - AIR FILTER END CAP

SERVICE PART

FOOTNOTES:

NOTE:

EXHAUST



EXHAUST

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	149-326	1	GASKET, MUFFLER	
2	195-1755	1	EXHAUST MUFFLER	MOUNT USING 4X M8 - 1.25 X 22mm BOLTS (INCLUDED WITH ENGINE)
3	301-1499	1	HEAT GUARD BRACKET	
4	106-381	1	FLG LK SCREW (M8-1.25 X 25MM)	
5	301-2597	1	HEAT SHIELD	
6	106-386	12	FLG LOCKNUT (M8-1.25)	
7	300-7913	1	BRACKET	
8	300-8729	1	BATTERY BASE WELDMENT	
9	106-162	11	FLG SCREW (M8-1.25 X 20MM, GD8)	
10	301-0343	1	MUFFLER BRACKET	

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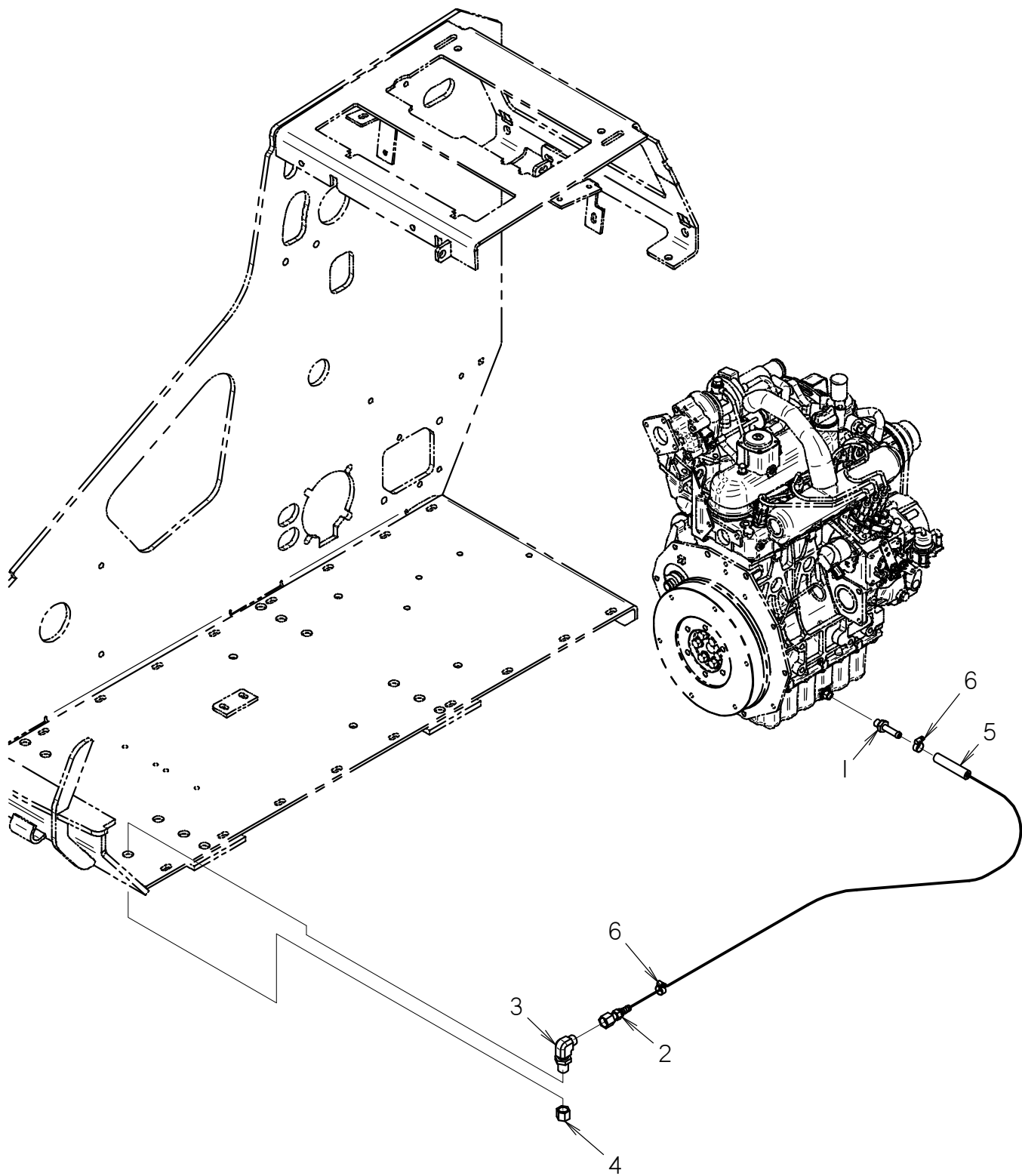
FOOTNOTES:

NOTE:

1. TORQUE TO 18 FT-LBS (25 N-M).

ENGINE OIL DRAIN

SK750 / SK755



ENGINE OIL DRAIN

SK750 / SK755

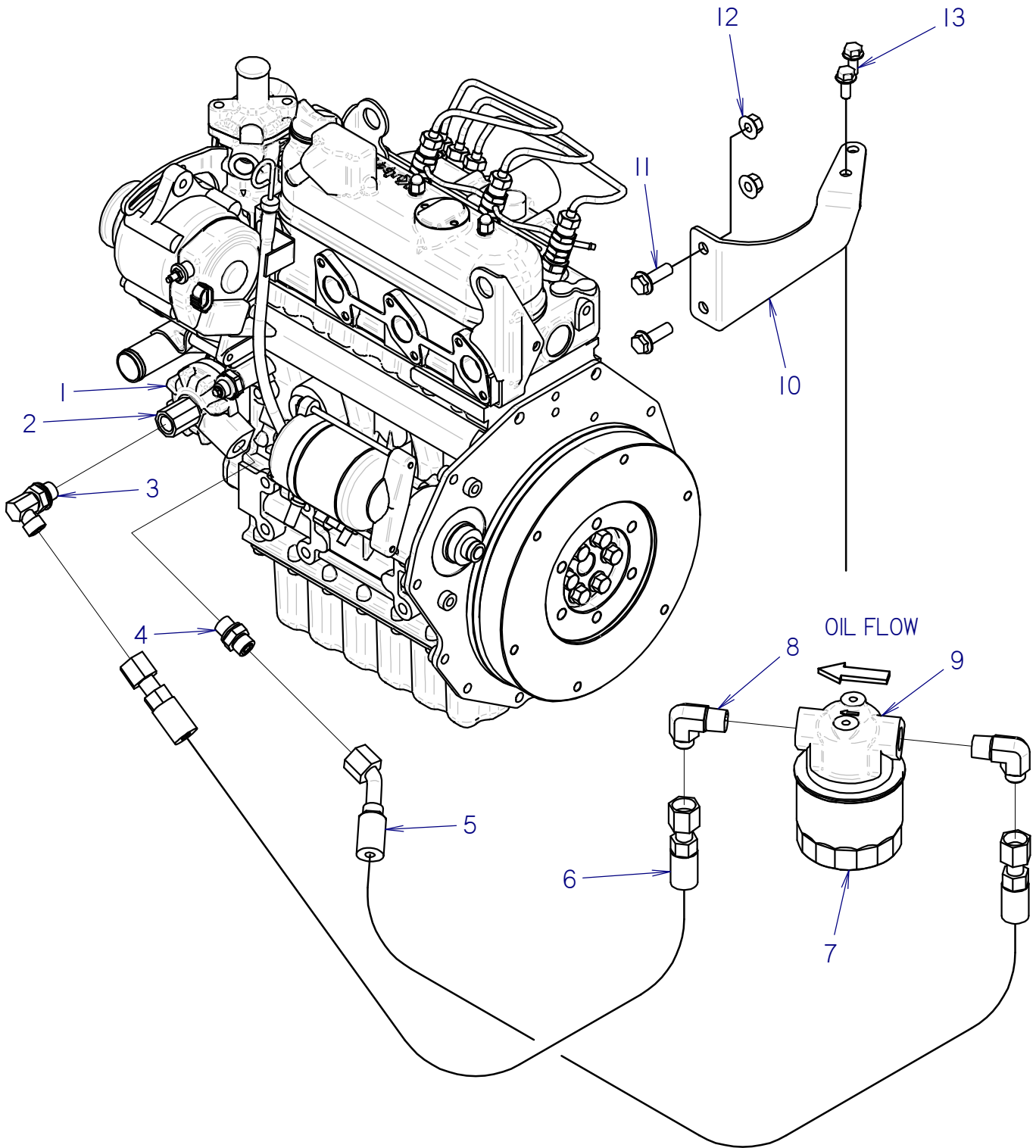
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	153-1007	1	ADAPTER (M12-1.25 X 06H)	
2	157-947	1	FITTING (060-06H)	
3	154-229	1	BK CONNECTOR (060-06090BK)	
4	154-326	1	CAP (060F)	
5	116-881	30	BULK HOSE (3/8", SOLD PER FT)	
6	110-249	2	WORM CLAMP (1/4" TO 5/8")	

NOT SHOWN:

FOOTNOTES:

NOTE:

ENGINE OIL FILTER



ENGINE OIL FILTER

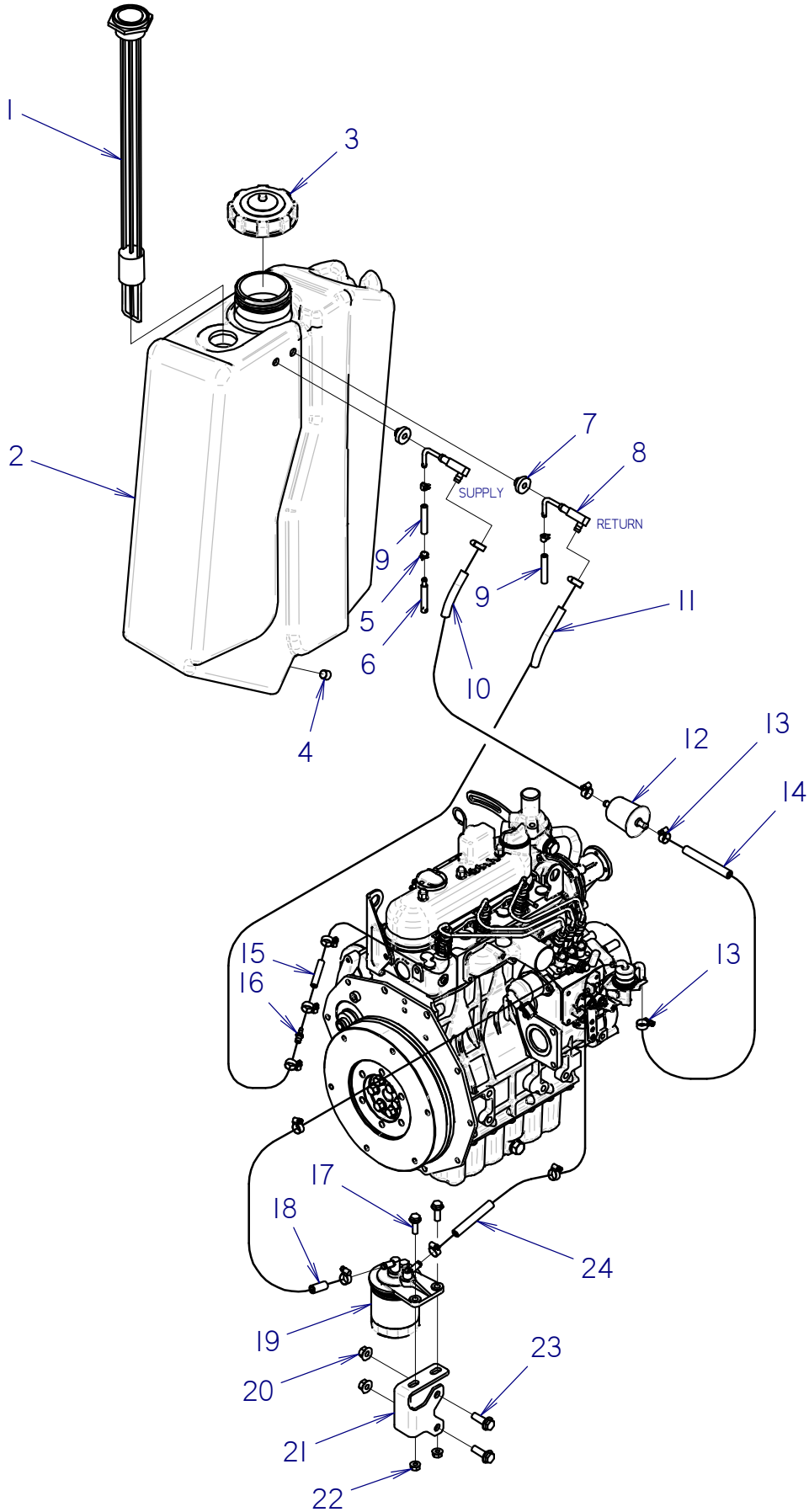
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	502-162	1	BASE (OIL FILTER)	
2	502-164	1	PIPE JOINT	
3	150-1935	1	ELBOW (M16-1.50-060)	
4	150-1936	1	CONNECTOR (M16-1.50-060)	
5	158-979	1	HOSE (060FX45-43"-3000)	
6	154-776	1	HOSE (060FX-42"-3000)	
7	194-881	1	OIL FILTER	
8	154-420	2	CONNECTOR (08N-06090)	
9	502-161	1	REMOTE HEAD	
10	300-6858	1	FILTER MOUNT	
11	106-164	2	FLG LK SCREW (M10-1.50 X 30MM)	
12	106-387	2	FLG LOCKNUT (M10-1.50)	
13	106-162	2	FLG SCREW (M8-1.25 X 20MM, GD8)	

NOT SHOWN:

FOOTNOTES:

NOTE:

FUEL TANK & FUEL LINES



FUEL TANK & FUEL LINES

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	364-730	1	FUEL GAUGE	
2	364-1009	1	FUEL TANK, 10.5 GAL	
3	362-1892	1	DIESEL CAP	
4	115-444	1	PLUG (04N, SOC, SSI)	
5	110-563	3	SPRING CLAMP (3/8")	
6	194-505	1	FUEL PICKUP	
7	116-325	2	GROMMET (.362")	
8	150-3378	2	S/O COUPLER (04H90-05H90)	
9	118-096	48	BULK FUEL TUBING (1/4",PER FT)	USE 2 @ 24" EACH
10	116-108	15	BULK HOSE (5/16", SOLD PER 1")	
11	116-108	35	BULK HOSE (5/16", SOLD PER 1")	
12	155-941	1	FUEL FILTER (05H-05H. IN-LINE)	
13	110-249	12	WORM CLAMP (1/4" TO 5/8")	
14	116-108	44	BULK HOSE (5/16", SOLD PER 1")	
15	116-866	4	BULK HOSE (3/16",SOLD PER 1")	
16	156-253	1	S/O COUPLER (03H-05H)	
17	106-381	2	FLG LK SCREW (M8-1.25 X 25MM)	
18	116-108	34	BULK HOSE (5/16", SOLD PER 1")	
19	149-536	1	FUEL FILTER	FUEL FILTER ELEMENT 194-386
20	106-387	2	FLG LOCKNUT (M10-1.50)	
21	300-6859	1	FILTER MOUNT	
22	106-386	2	FLG LOCKNUT (M8-1.25)	
23	106-164	2	FLG LK SCREW (M10-1.50 X 30MM)	
24	116-108	21	BULK HOSE (5/16", SOLD PER 1")	

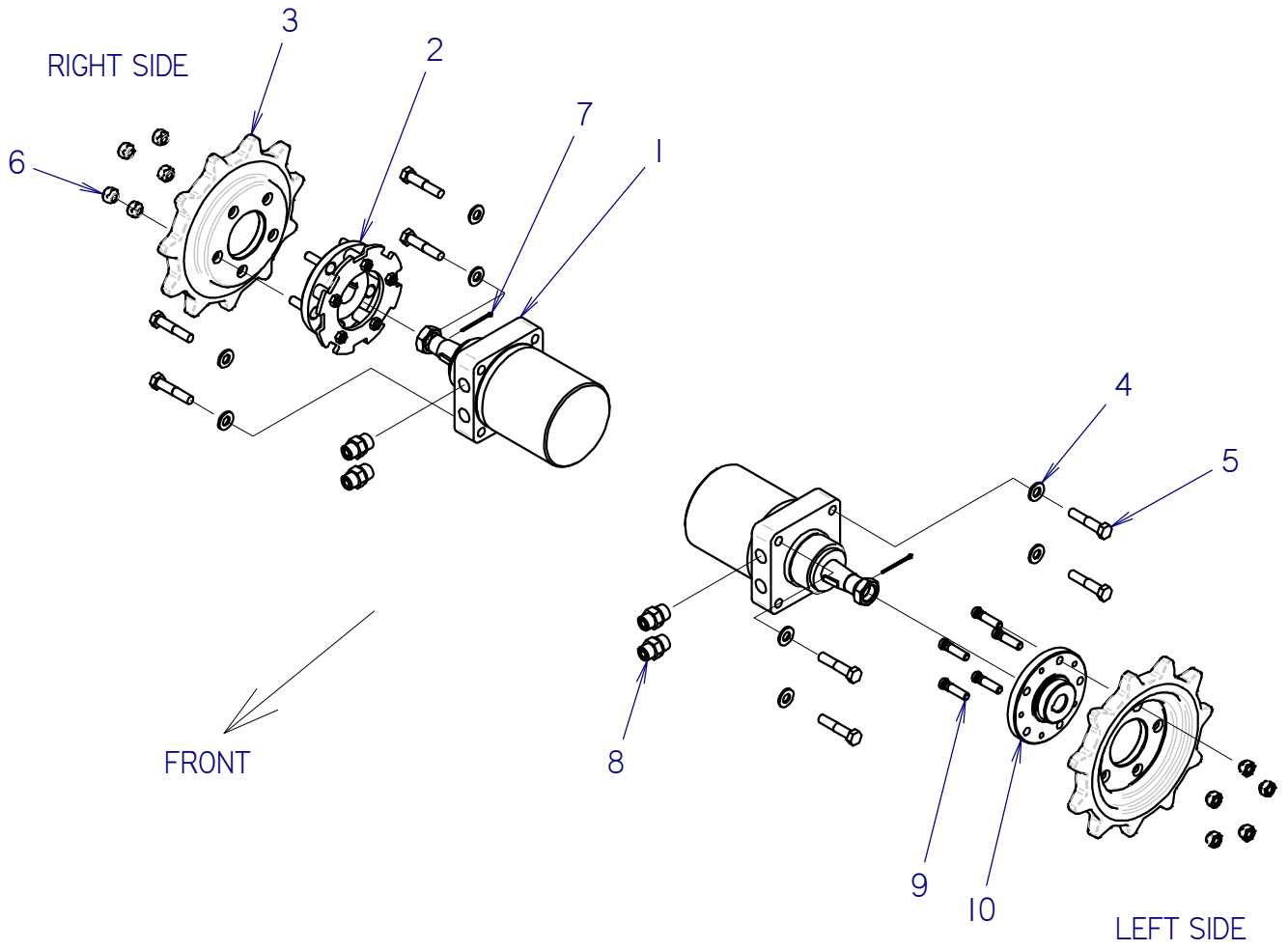
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FOOTNOTES:

NOTE:

POWER TRAIN

TRACK MOTORS AND SPROCKETS



TRACK MOTORS AND SPROCKETS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	155-572	2	HYD MTR (GEROLERI) 20.6 CID	
2	350-1995	1	HUB W/ BRAKE ASM	
3	140-1227	2	SPROCKET, 11T, 72MM PITCH	
4	106-743	8	WASHER (.531", HARDENED)	
5	106-708	8	SCREW (M12-1.75 X 60MM, 10.9)	
6	105-054	10	LUG NUT (7/16-NF)	
7	105-501	2	COTTER PIN (1/25" X 2.0")	
8	154-279	4	CONNECTOR (080-10S)	
9	107-048	5	LUG BOLT (7/16-NF X 1-3/4")	
10	300-4341	1	HUB (MACHINED)	

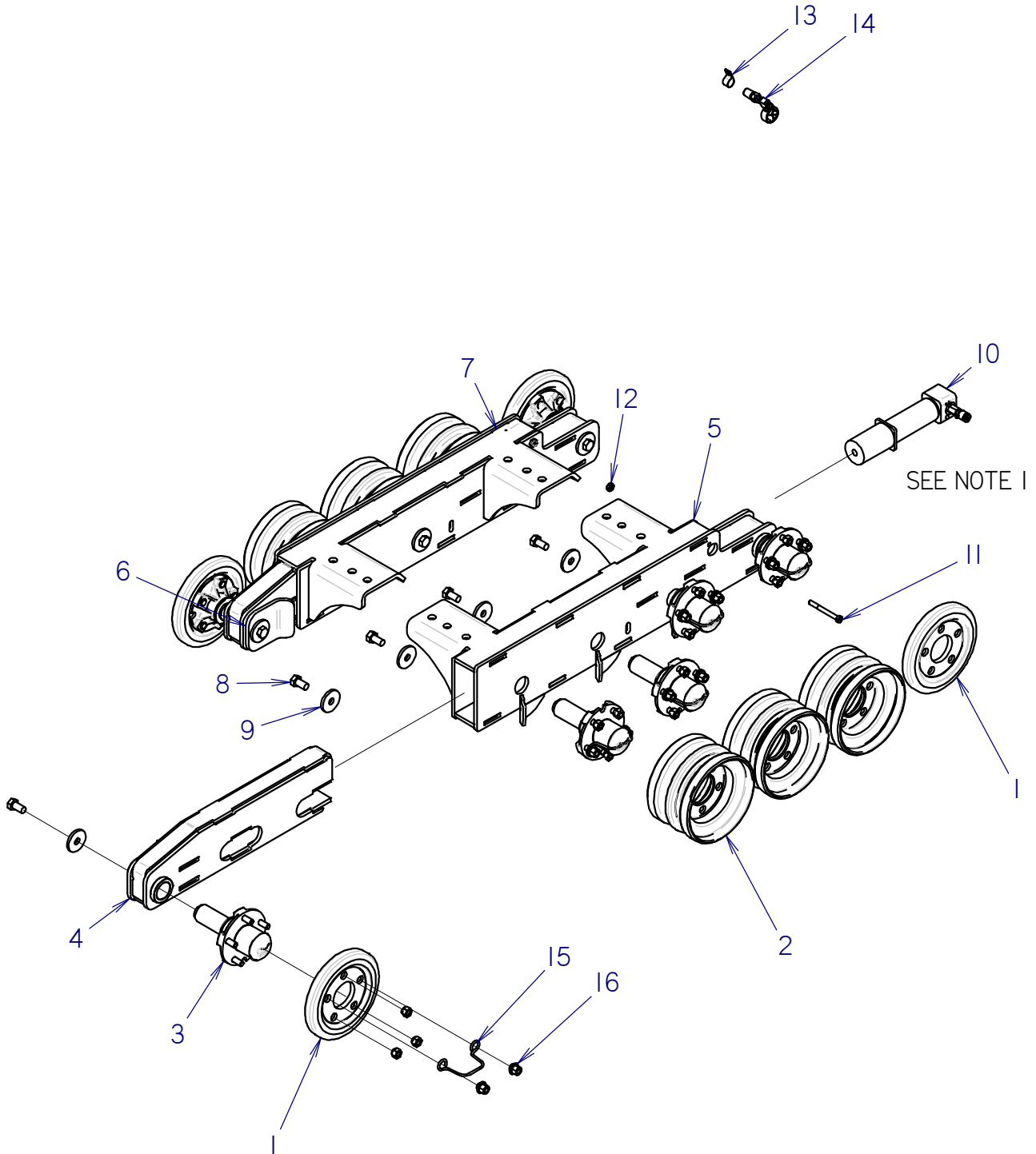
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FOOTNOTES:

NOTE:

TRACK ASSEMBLY

BEGINS WITH S/N:CMWSK750JF0001028; CMWSK755CF0001057; CMWSK850HF0000362



TRACK ASSEMBLY

BEGINS WITH S/N:CMWSK750JF0001028; CMWSK755CF0001057; CMWSK850HF0000362

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	160-1300	4	FORGED TRACK ROLLER	
2	301-0833	6	TRACK ROLLER	SUPERSEDES TRACK ROLLER 301-1795
3	205-1216	10	HUB AND SPINDLE ASSEMBLY (CREASED CAP)	SEE FOOTNOTE 2
4	301-0825	1	FRONT IDLER SUPPORT	
5	301-0820	1	LEFT TRACK FRAME	
6	301-0830	1	FRONT IDLER SUPPORT	
7	301-0815	1	RIGHT TRACK FRAME	
8	106-338	10	SCREW (M16-2.00 X 30MM)	USE LOCTITE 242
9	105-416	10	WASHER (5/8")	
10	150-4316	2	GREASE CYLINDER (1.75" DIA X 3.50")	SEE FOOTNOTE 1
11	105-258	2	BOLT (3/8-NC X 3-3/4")	
12	105-287	2	LOCKNUT (3/8 NC)	TORQUE TO 25 FT LBS
13	110-373	1	BOLT-ON CLAMP (13/16")	
14	150-4328	1	GAUGE ADAPTER ASSEMBLY	LOCATED UNDER REAR PANEL
15	205-1213	10	DUST CAP RETAINER	SEE FOOTNOTE 2
16	105-1602	20	LUG NUT W/ FLANGE (1/2-20 UNF)	SEE FOOTNOTE 2

NOT SHOWN:

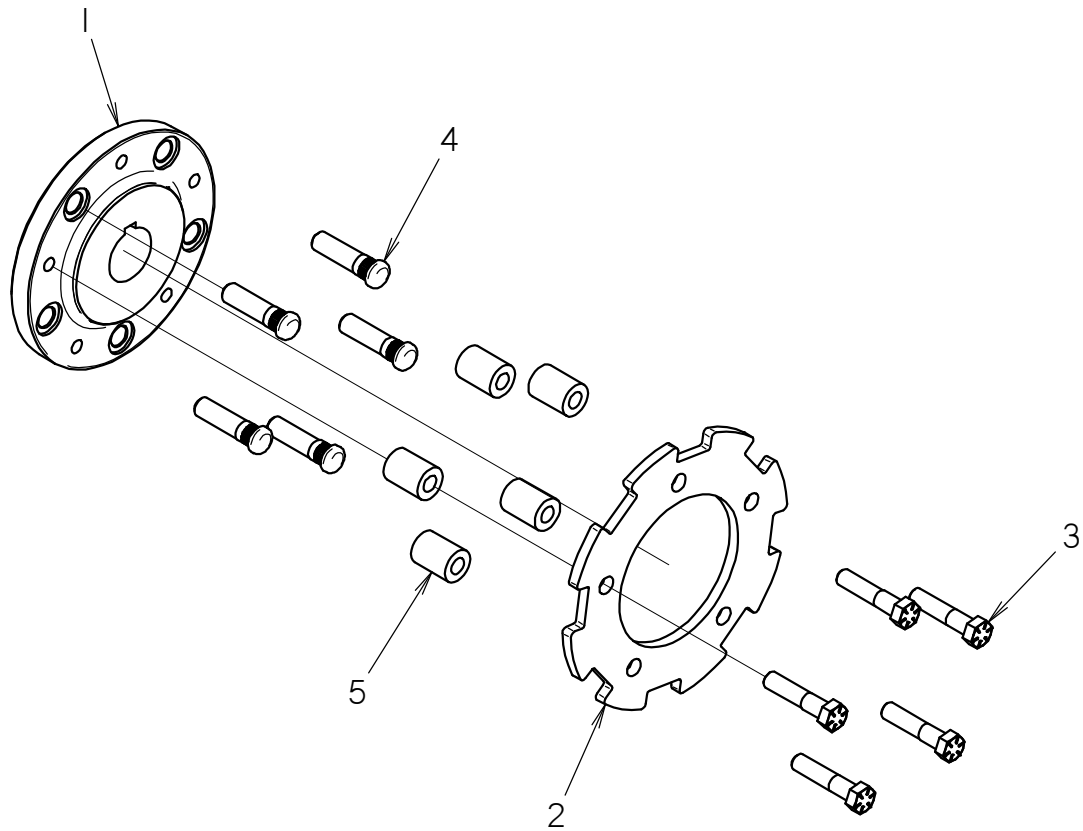
FOOTNOTES:

1. 150-1937 ENDS WITH S/N: CMWSK850LF0000361
2. HUB & SPINDLE ASSEMBLY 205-1216 SUPERSEDES 205-1183. HUB ASSEMBLY 205-1216 USES DUST CAP RETAINER 205-1213 & LUG NUT 105-1602.

NOTE:

1. TORQUE LUG NUTS 80-90 FT-LB.

HUB AND BRAKE ROTOR



HUB AND BRAKE ROTOR

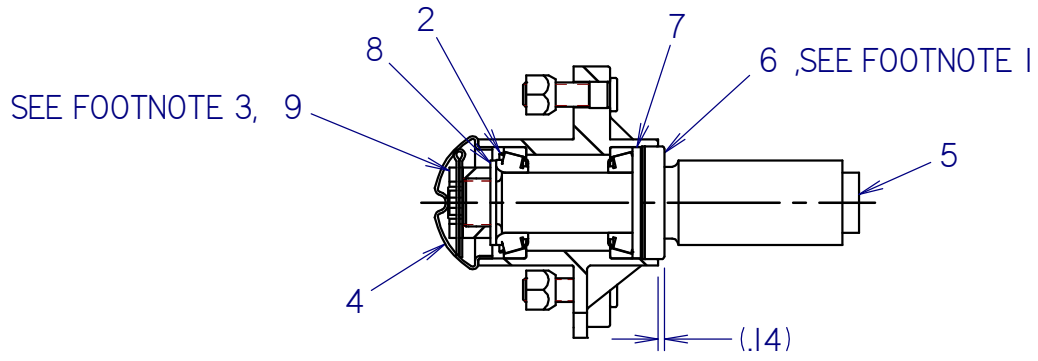
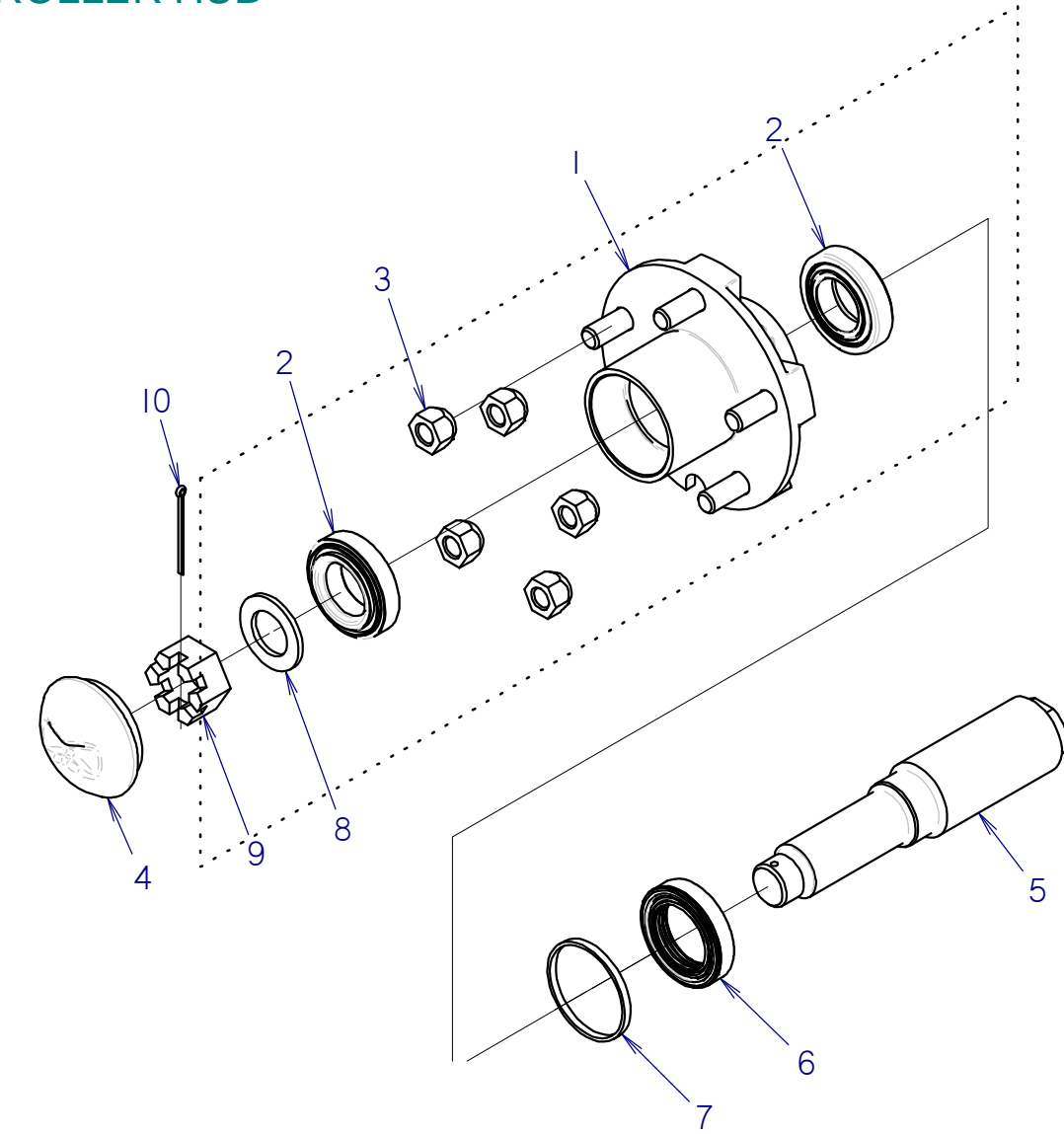
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	350-1995	-	HUB WITH BRAKE ASM	
1	300-4341	1	HUB (MACHINED)	
2	300-7528	1	BRAKE ROTOR	
3	105-286	5	BOLT (3/8-NC X 1-3/4")	USE LOCTITE 242 (BLUE)
4	107-048	5	LUG BOLT (7/16-NF X 1-3/4")	
5	300-5985	5	SPACER (.75 X .375 X 1.00)	

NOT SHOWN:

FOOTNOTES:

NOTE:

TRACK ROLLER HUB



TRACK ROLLER HUB

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	205-1216		HUB AND SPINDLE ASSEMBLY (CREASED CAP)	INCLUDES REF 1-10; SUPERCEDES 205-1183
1	205-1215	-	HUB (5 X 4.5", 1.25" ID, CREASED CAP)	INCLUDES REF 1-4; SUPERCEDES 205-1172
2	125-1058	2	TAPERED BEARING SET (1.250")	INCLUDES BEARING AND RACE
3	105-114	5	LUG NUT (1/2-NF)	SEE FOOTNOTES 4 & 5
4	205-1214	1	DUST CAP W/ CREASE (2.323")	SEE FOOTNOTES 2 & 4
5	160-1051	1	WHEEL SPINDLE	SUPERSEDES 301-0837 WHEEL SPINDLE
6	105-1622	1	OIL SEAL (1.500 X 2.328 X .500)	SEE FOOTNOTE 1
7	105-1638	1	SPACER	
8	106-016	1	SPINDLE WASHER (1.062")	
9	105-317	1	CASTLE NUT (1-NF)	SEE FOOTNOTE 3
10	105-501	1	COTTER PIN (1/25" X 2.0")	

NOT SHOWN:

105-2196 AR LUG BOLT (1/2-20 X 1-13/16)

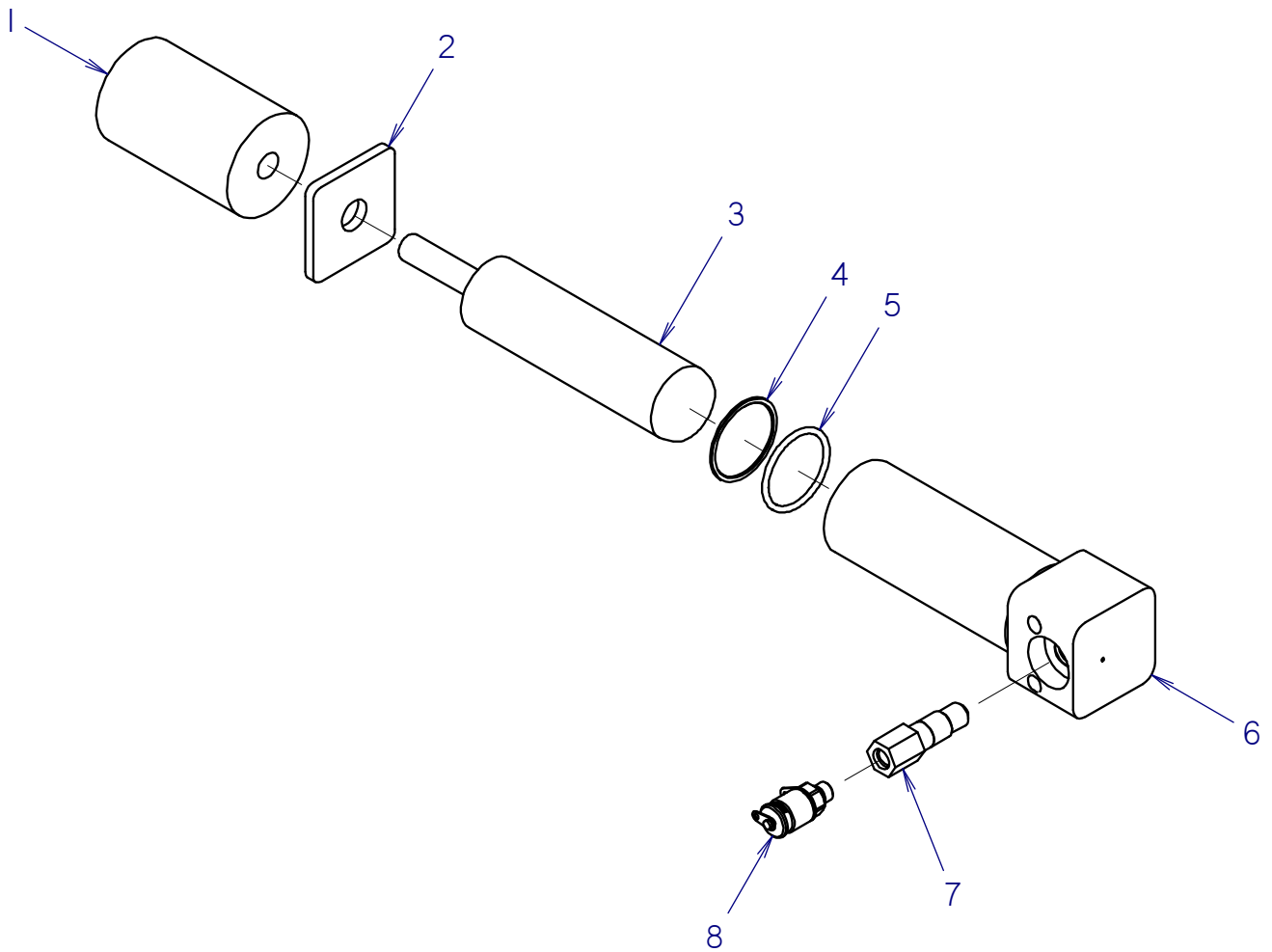
FOOTNOTES:

1. SEAL WILL PROTRUDE FROM HUB APPROXIMATELY .14". DO NOT DRIVE IN FLUSH WITH HUB OR SEAL WILL BE DAMAGED.
2. MATING SURFACES OF REF 4 DUST CAP AND REF 2 HUB MUST BE CLEAN, DRY, AND FREE FROM GREASE OR OTHER LUBRICANTS PRIOR TO ASSEMBLY. APPLY LOCTITE 242 TO DUST CAPS. DRIVE CAP IN AS STRAIGHT AS POSSIBLE WITHOUT COCKING TO ONE SIDE OR THE OTHER.
3. TIGHTEN REF 9 SPINDLE NUT 30-40 FT-LB (41-54 N-m) TO SEAT BEARINGS. LOOSEN SPINDLE NUT. TIGHTEN SPINDLE NUT BY HAND. IF A SLOT IN NUT ALIGNS WITH HOLE IN SPINDLE, INSTALL REF 10 COTTER PIN. IF HOLE IS VISIBLE IN SLOT, SLIGHTLY LOOSEN OR TIGHTEN NUT WITH WRENCH TO ALIGN SLOT WITH HOLE AND INSTALL COTTER PIN. IF NOT, LOOSEN TO NEXT AVAILABLE SLOT AND INSTALL COTTER PIN. AFTER ASSEMBLY, HUB END PLAY SHOULD NOT EXCEED .010" (.25MM).
4. USE DUST CAP 205-1214 IN PLACE OF 205-1182. WHEN USING CAP 205-1214, USE RETAINER 205-1213 AND FLANGE LUG NUT 105-1602, WHICH ARE SHOWN ON PART PAGE ID0270368. NOTE THAT TWO OF THE 105-1602 LUG NUTS WILL REPLACE TWO OF THE 105-114 LUG NUTS ON EACH HUB.
5. USE LOCTITE 242 ON FLANGE LUG NUTS 105-1602 AND TORQUE TO 70 FT-LB.

NOTE:

GREASE CYLINDER

BEGINS WITH S/N: CMWSK850HF0000362



GREASE CYLINDER

BEGINS WITH S/N: CMWSK850HF0000362

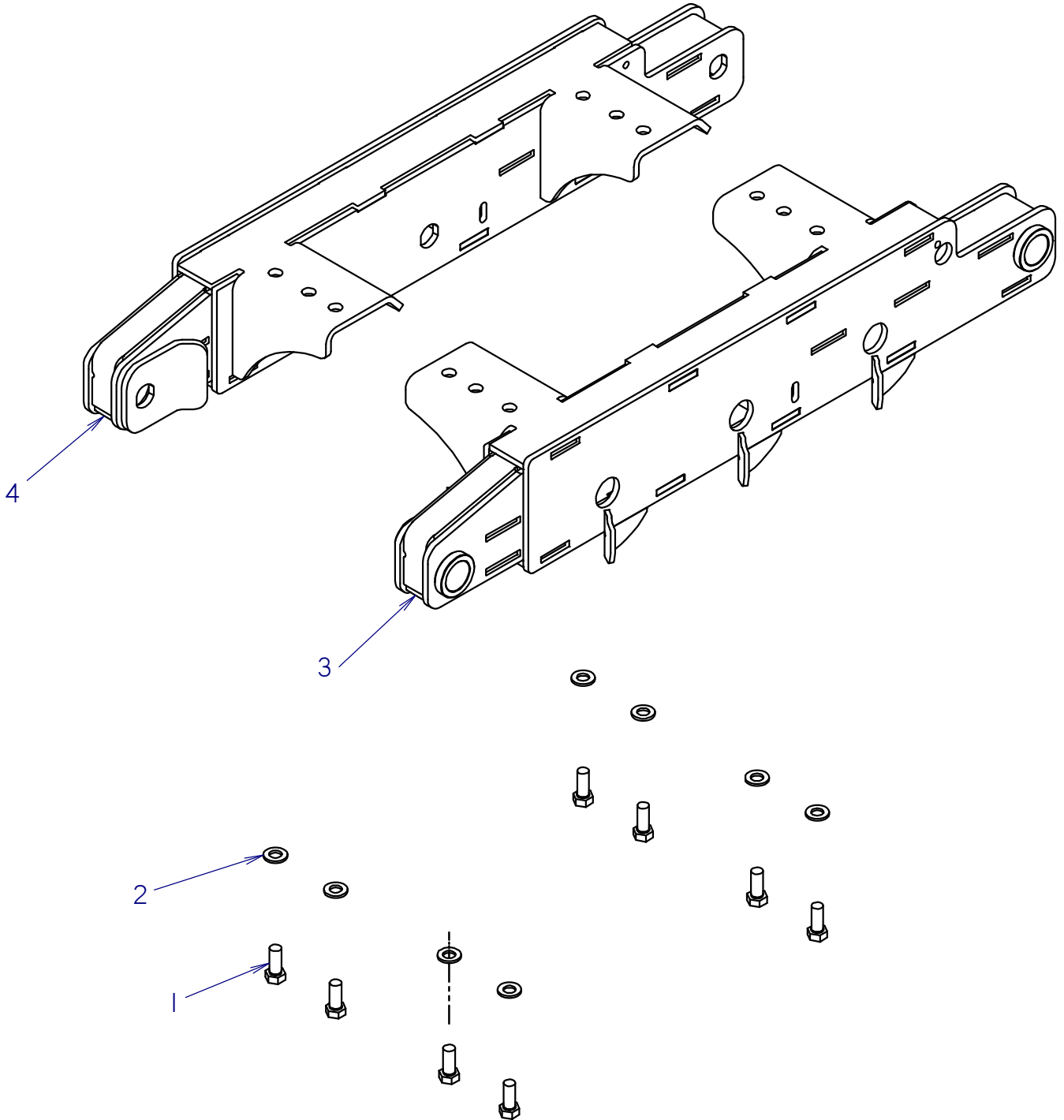
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	150-4316	-	GREASE CYLINDER (1.75" DIA X 3.50")	
1	301-9232	1	URETHANE SPRING	
2	301-9233	1	WASHER	
3	150-4315	1	CYLINDER ROD	
4	155-732	1	BACKUP RING (224 D90)	
5	155-704	1	O-RING (224 D70)	
6	301-1516	1	GREASE CYLINDER	
7	301-9225	1	ADAPTER FITTING	
8	150-4313	1	TEST COUPLING (1-04 SAEM)	

NOT SHOWN:

FOOTNOTES:

NOTE:

TRACK FRAME INSTALLATION



TRACK FRAME INSTALLATION

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	106-478	8	SCREW (M16-2.00 X 40MM, 10.9)	
2	106-398	8	WASHER (M16, HARDENED)	
3	350-4203	1	LEFT TRACK FRAME / IDLER	
4	350-4204	1	RIGHT TRACK FRAME / IDLER	

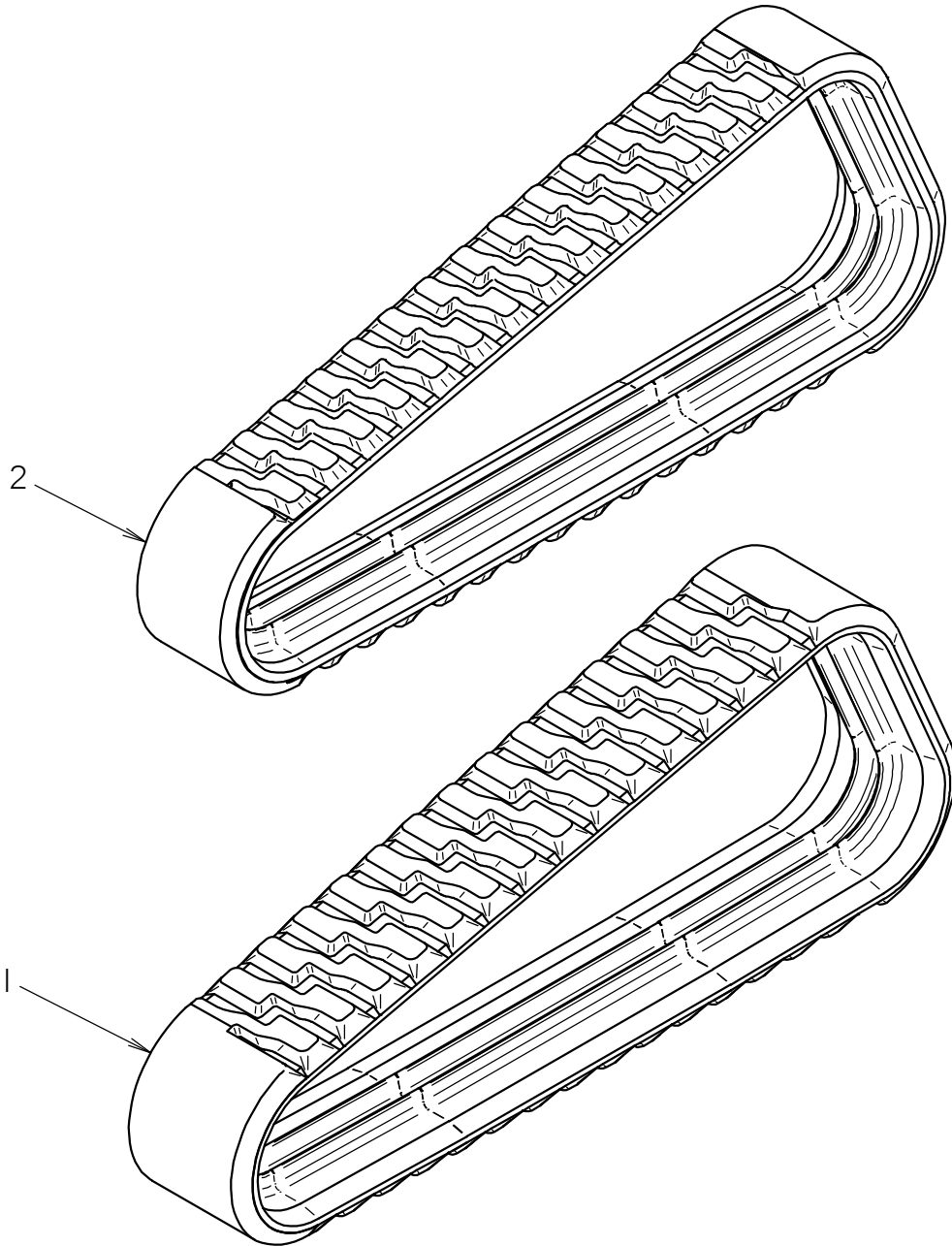
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FOOTNOTES:

NOTE:

RUBBER TRACK OPTIONS

SK750 / SK755



RUBBER TRACK OPTIONS

SK750 / SK755

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	301-0842	2	RUBBER TRACK (230x72x44, GP)	
2	301-0976	2	RUBBER TRACK (180x72x44, GP)	USE IN NARROW TRACK CONFIGURATION ONLY

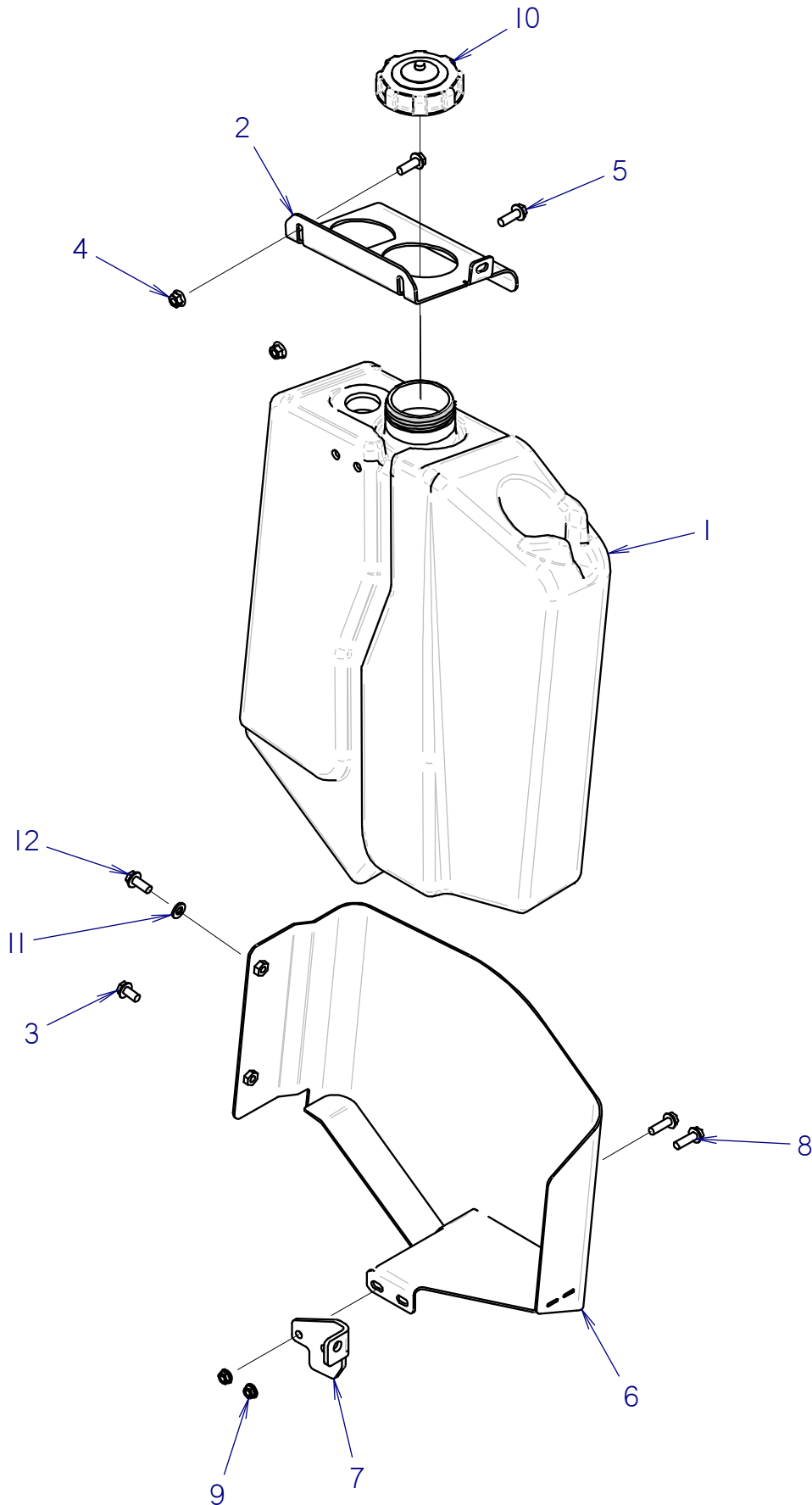
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FOOTNOTES:

NOTE:

FRAME COMPONENTS

FUEL TANK MOUNTING



FUEL TANK MOUNTING

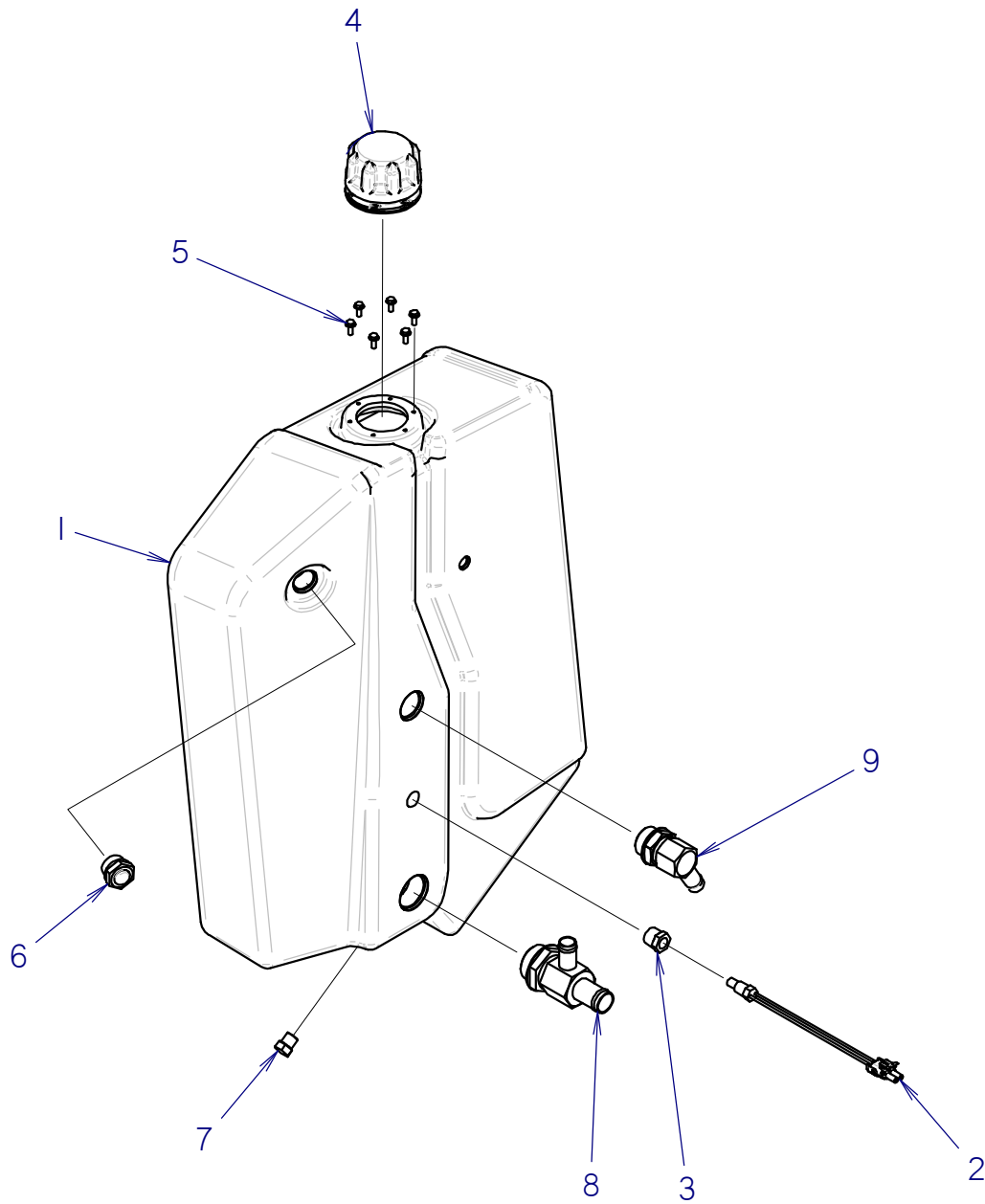
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	364-1009	1	FUEL TANK, 10.5 GAL	
2	301-2584	1	RETAINER BRACKET	
3	106-724	1	FLG SCREW (M10-1.50 X 25MM)	
4	106-387	2	FLG LOCKNUT (M10-1.50)	
5	106-383	2	FLG LK SCREW (M10-1.50 X 30MM)	
6	301-6659	1	RIGHT TANK SUPPORT	
7	301-8468	1	STOP PLATE	
8	105-827	2	FLG LK BOLT (3/8-NC X 1-1/4")	
9	105-834	2	FLG LOCKNUT (3/8-NC)	
10	362-1892	1	DIESEL CAP	
11	106-396	1	WASHER (M10, HARDENED)	
12	106-382	1	FLG LK SCREW (M10-1.50 X 20MM)	

NOT SHOWN:

FOOTNOTES:

NOTE:

HYDRAULIC TANK ASSEMBLY



HYDRAULIC TANK ASSEMBLY

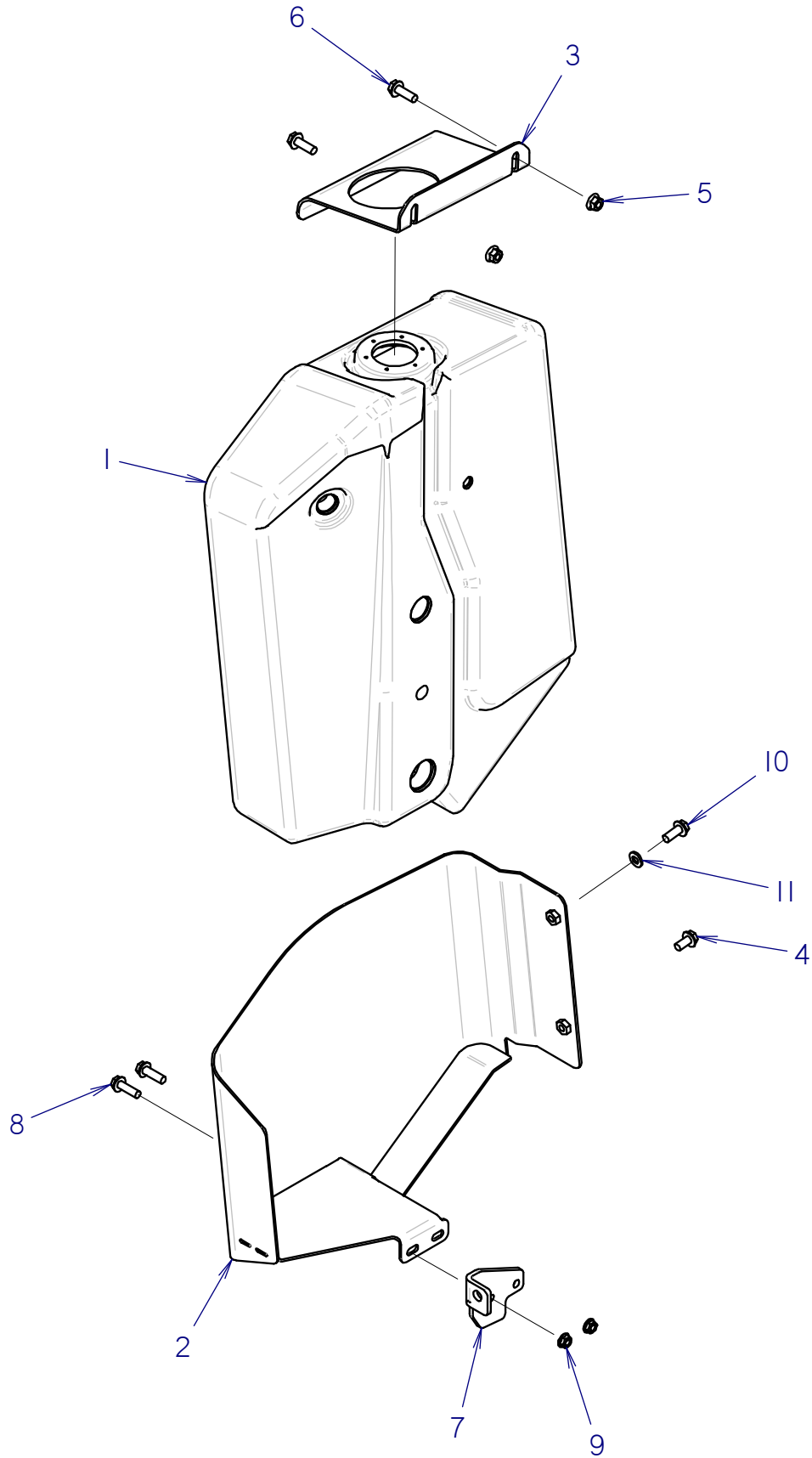
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	364-1011	1	HYDRAULIC TANK	
2	214-854	1	TEMPERATURE SWITCH(1/4NPT,MALE)	
3	115-286	1	REDUCER (08N-1/4-NF)	
4	150-2510	1	BREATHER CAP 3 PSI	
5	105-214	6	FLG SCREW (#10-24 X .5")	
6	121-040	1	SIGHT GLASS	
7	155-130	1	PLUG (06S)	
8	159-638	1	S/O BR TEE (20S-16H-12H-06S)	
9	155-183	1	S/O COUPLER (16S-12H90)	

NOT SHOWN:

FOOTNOTES:

NOTE:

HYDRAULIC TANK MOUNTING



HYDRAULIC TANK MOUNTING

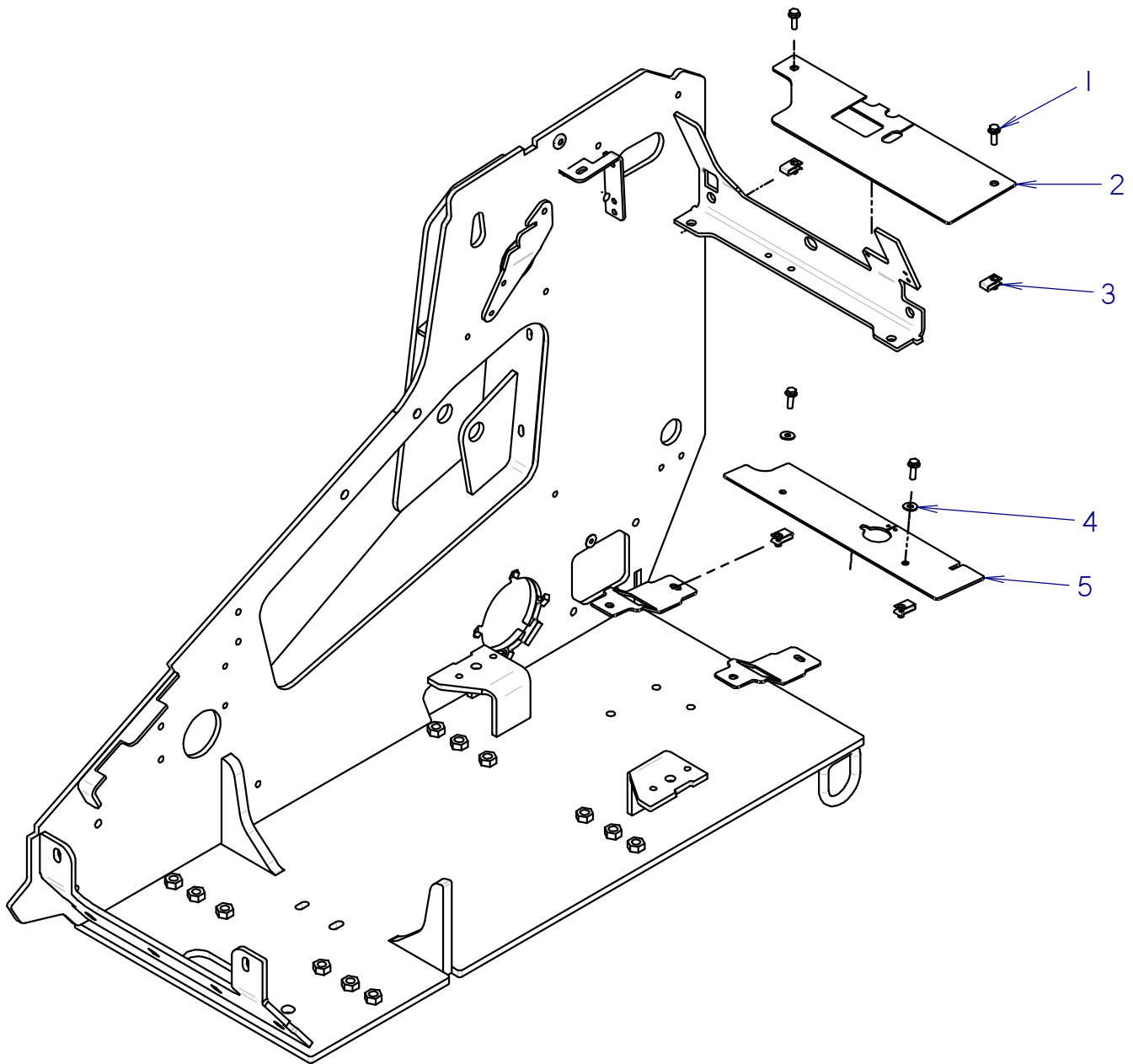
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	364-1011	1	HYDRAULIC TANK	
2	301-6664	1	TANK SUPPORT LEFT	
3	301-2585	1	RETAINER BRACKET	
4	106-382	1	FLG LK SCREW (M10-1.50 X 20MM)	
5	106-387	2	FLG LOCKNUT (M10-1.50)	
6	106-383	2	FLG LK SCREW (M10-1.50 X 30MM)	
7	301-8279	1	STOP PLATE	
8	105-827	2	FLG LK BOLT (3/8-NC X 1-1/4")	
9	105-834	2	FLG LOCKNUT (3/8-NC)	
10	106-724	1	FLG SCREW (M10-1.50 X 25MM)	
11	106-396	1	WASHER (M10, HARDENED)	

NOT SHOWN:

FOOTNOTES:

NOTE:

ENGINE COMPARTMENT FLAPS



ENGINE COMPARTMENT FLAPS

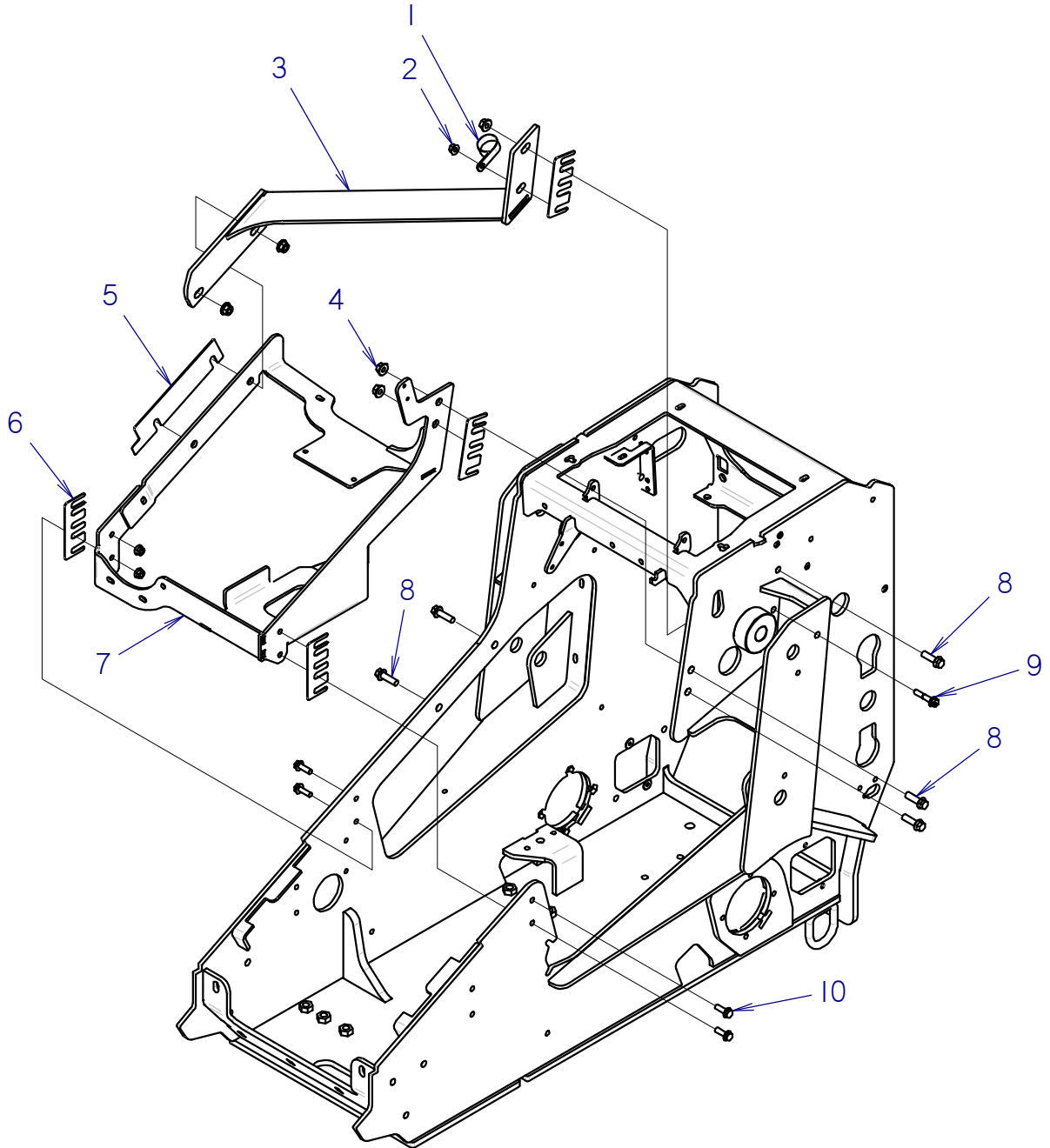
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	106-381	4	FLG LK SCREW (M8-1.25 X 25MM)	
2	362-1895	1	RUBBER FLAP	
3	107-687	4	CLIP NUT M8-1.25, LONG, WIDE	
4	105-117	2	WASHER (5/16")	
5	301-6896	1	RUBBER FLAP LOWER	

NOT SHOWN:

FOOTNOTES:

NOTE:

BRACKETS & BRACES



BRACKETS & BRACES

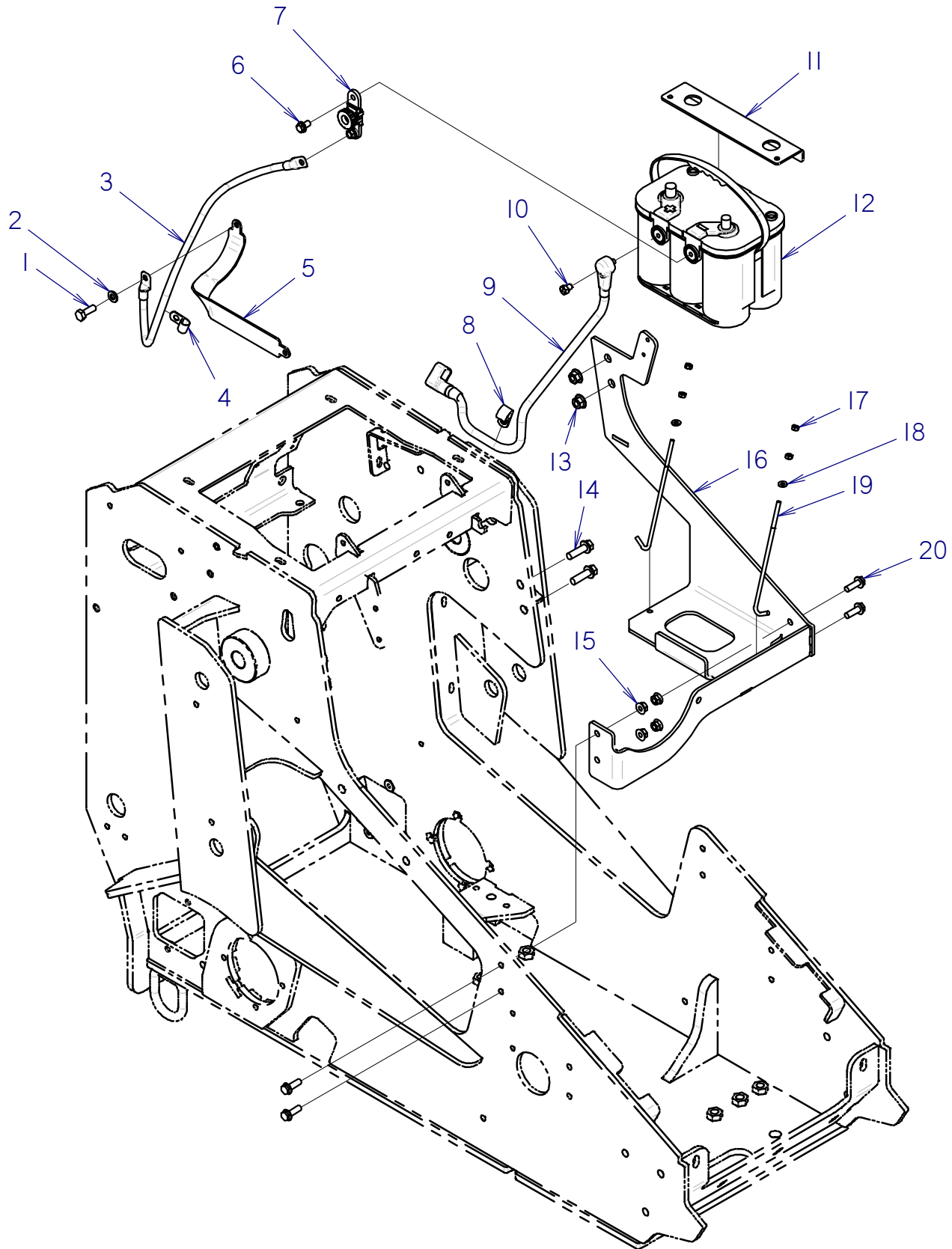
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	110-332	1	BOLT-ON CLAMP (1-5/8")	
2	106-387	3	FLG LOCKNUT (M10-1.50)	
3	301-9773	1	CROSS BRACE WELDMENT	
4	106-709	5	FLG LK NUT (M12-1.75)	
5	302-2421	1	SHIM	USE AS NEEDED
6	302-2422	0	SHIM	USE AS NEEDED
7	300-8729	1	BATTERY BASE WELDMENT	
8	107-565	5	FLG LK SCREW (M12-1.75 X 40MM)	
9	105-1980	1	FLG SCREW (M10-1.50 X 50MM) 10.9 ZP	
10	106-164	4	FLG LK SCREW (M10-1.50 X 30MM)	

NOT SHOWN:

FOOTNOTES:

NOTE:

BATTERY BASE AND CABLES



BATTERY BASE AND CABLES

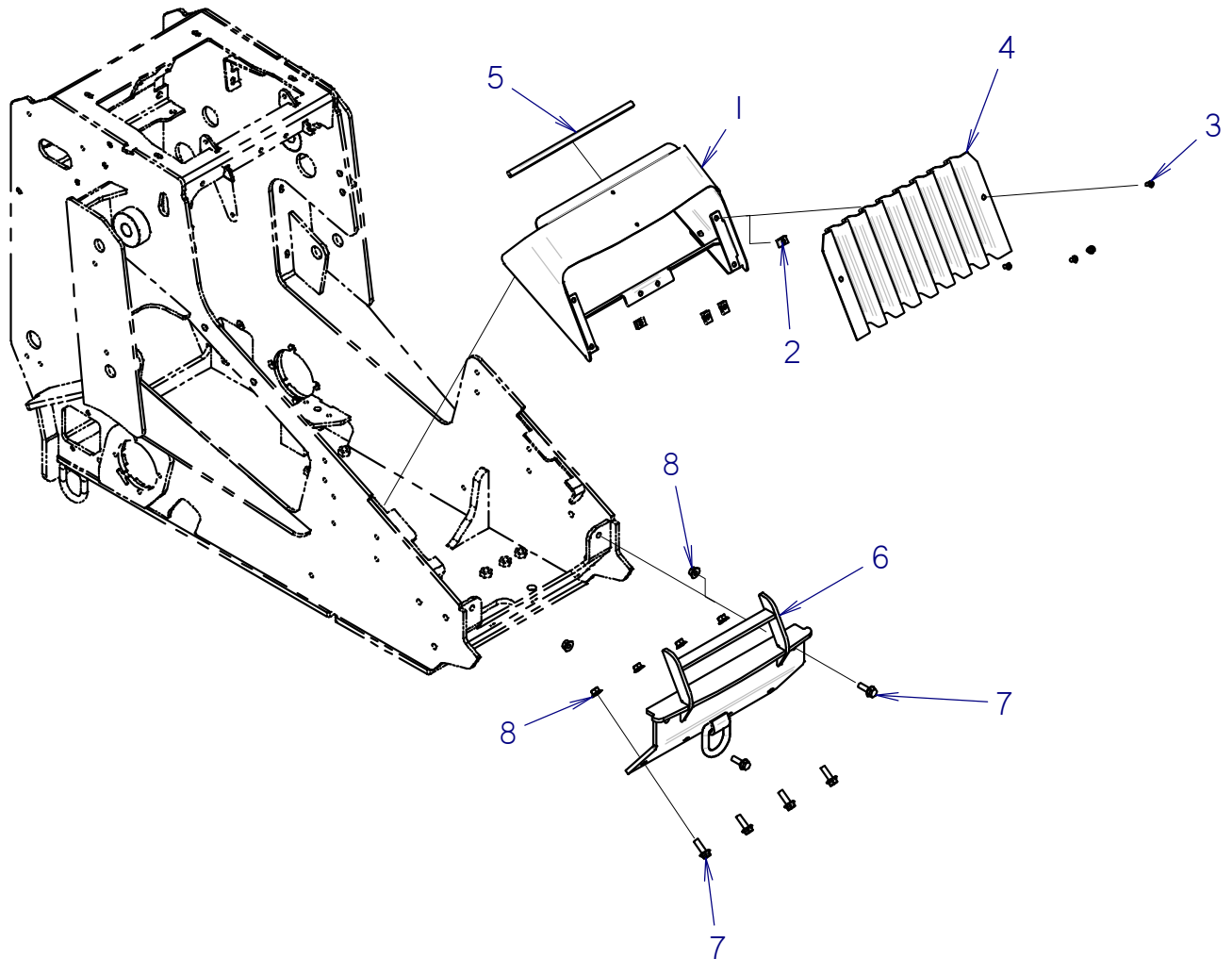
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-1265	1	SCREW (M10-1.25 X 30MM, 10.9)	
2	106-396	1	WASHER (M10, HARDENED)	
3	215-2093	1	GRD CABLE 1GA X 24", (BLK)	
4	110-259	1	BOLT-ON CLAMP (625")	
5	215-1626	1	BATTERY GROUND STRAP	
6	501-153	1	FLG LK BOLT (3/8-NC X 5/8")	
7	217-874	1	BATTERY DISCONNECT	
8	110-333	1	BOLT-ON CLAMP (1")	
9	215-0067	1	POS BATT CABLE 1GA X 26", (RED)ISM	
10	105-181	1	BOLT (3/8-NC X 1/2")	
11	301-6883	1	BATTERY HOLD DOWN	
12	215-1165	1	OPTIMA BATTERY	
13	106-709	2	FLG LK NUT (M12-1.75)	
14	107-565	2	FLG LK SCREW (M12-1.75 X 40MM)	
15	106-387	4	FLG LOCKNUT (M10-1.50)	
16	300-8729	1	BATTERY BASE WELDMENT	
17	105-078	4	NUT (1/4-NC)	
18	106-076	2	WASHER (1/4")	
19	300-4334	2	J-HOOK (PLATED)	
20	106-164	4	FLG LK SCREW (M10-1.50 X 30MM)	

NOT SHOWN:

FOOTNOTES:

NOTE:

GRILLE



GRILLE

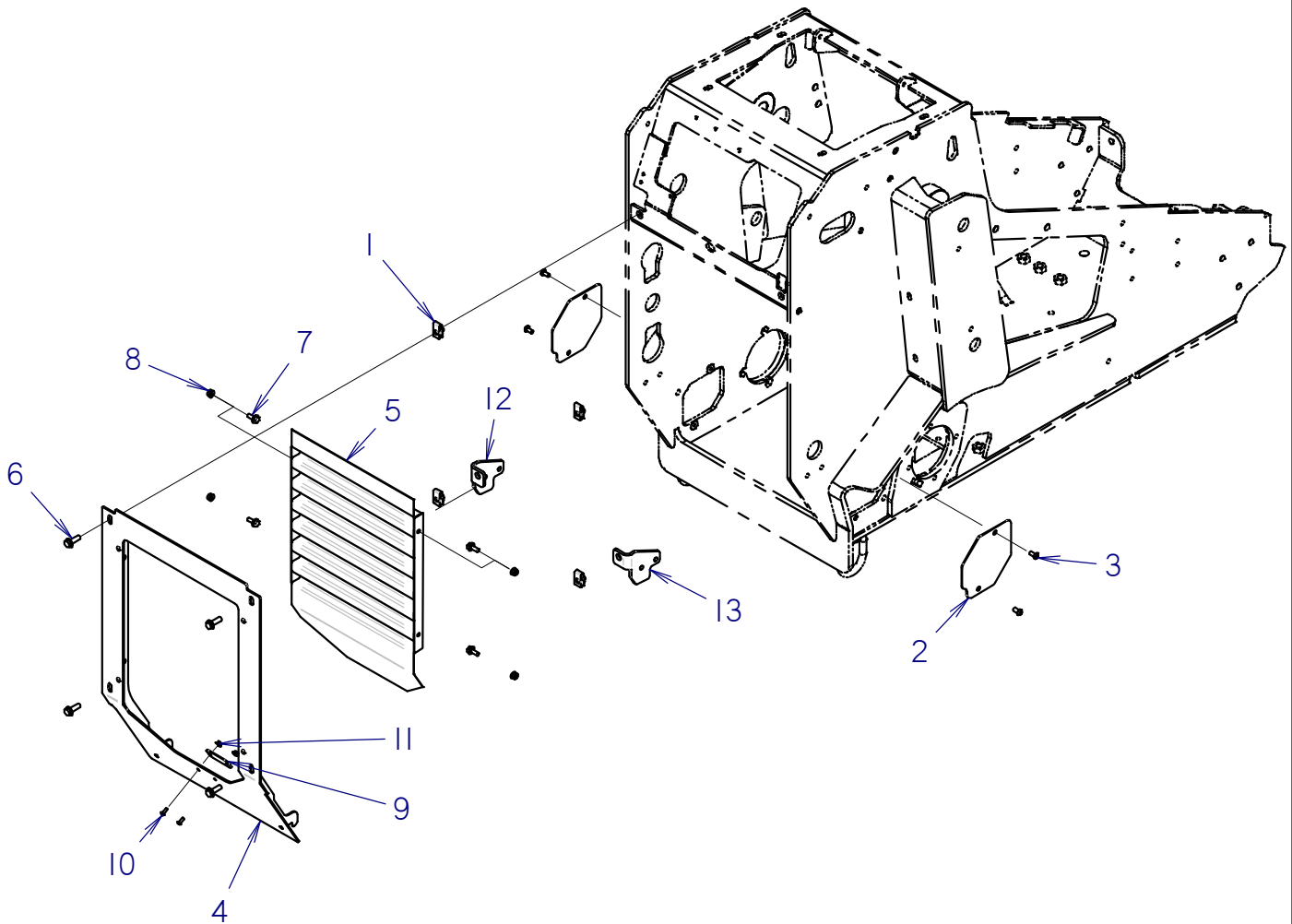
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	301-6864	1	NOSE PIECE	
2	106-551	4	CLIP NUT (M8-1.25)	
3	105-1979	4	BOLT (M8-1.25 X 16MM,BUT SOC)	
4	195-1757	1	PERFORATED GRILL	
5	115-686	16	BULK EDGE (5/32",SOLD PER 1")	
6	301-6695	1	GRILLE	
7	106-632	6	FLG LK SCR (M12-1.75X35MM,SER)	
8	106-709	6	FLG LK NUT (M12-1.75)	

NOT SHOWN:

FOOTNOTES:

NOTE:

REAR AND SIDE COVERS



REAR AND SIDE COVERS

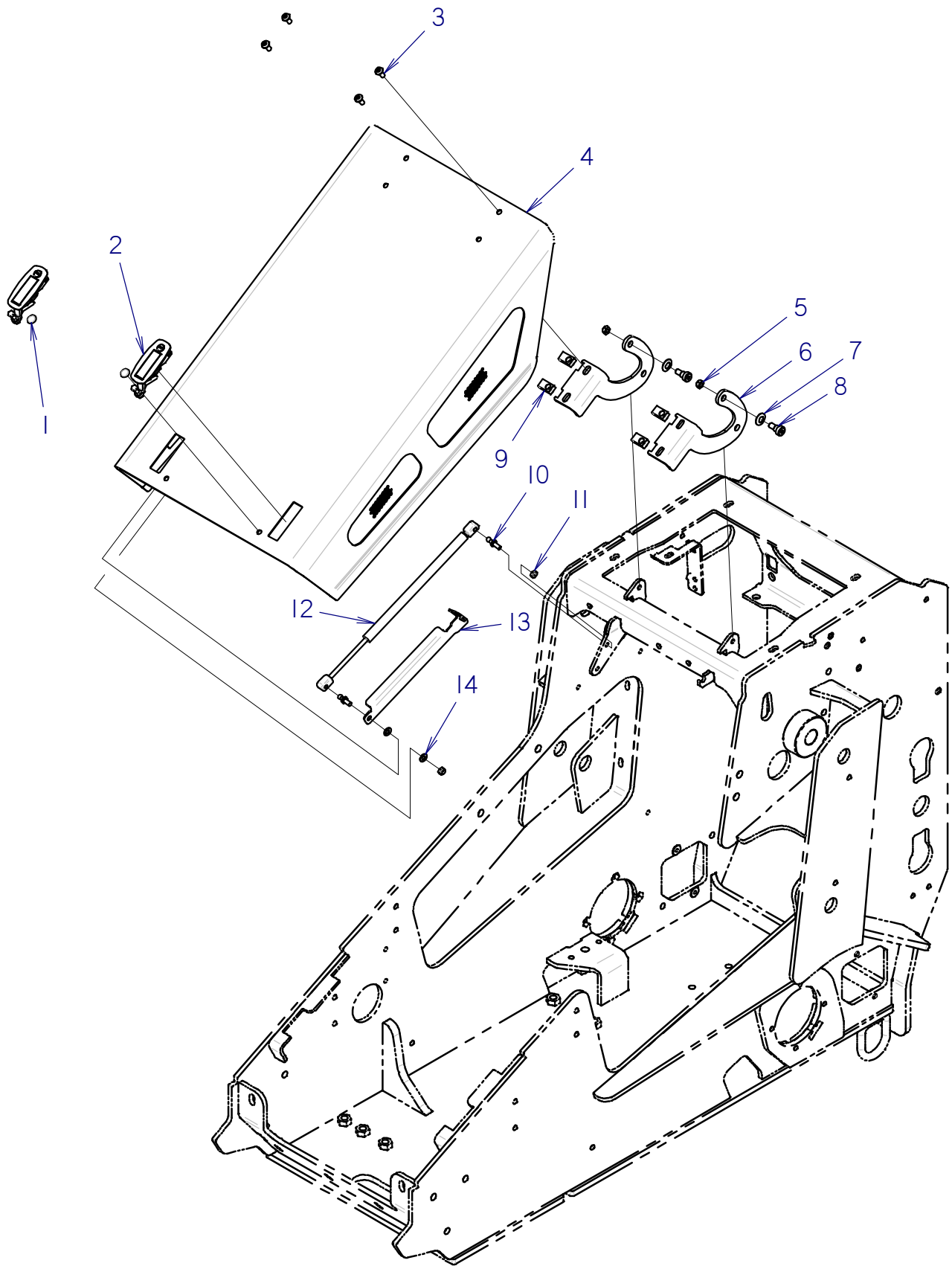
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	106-558	4	CLIP NUT (M10-1.50)	
2	301-0927	2	COVER	
3	106-774	4	BOLT (M8-1.25 X 16MM,BUT SOC)	
4	301-6894	1	BACK COVER	
5	301-3082	1	GRILLE	
6	106-383	4	FLG LK SCREW (M10-1.50 X 30MM)	
7	106-991	4	FLG LK SCREW (M8-1.25 X 20MM)	
8	106-386	4	FLG LOCKNUT (M8-1.25)	
9	322-362	1	BACKUP SPACER	
10	105-1577	2	SCREW (M6-1.00 X 14MM,BUT SOC)	
11	106-385	2	FLG LOCKNUT (M6-1.00)	
12	301-8279	1	STOP PLATE	
13	301-8468	1	STOP PLATE	

NOT SHOWN:

FOOTNOTES:

NOTE:

HOOD



HOOD

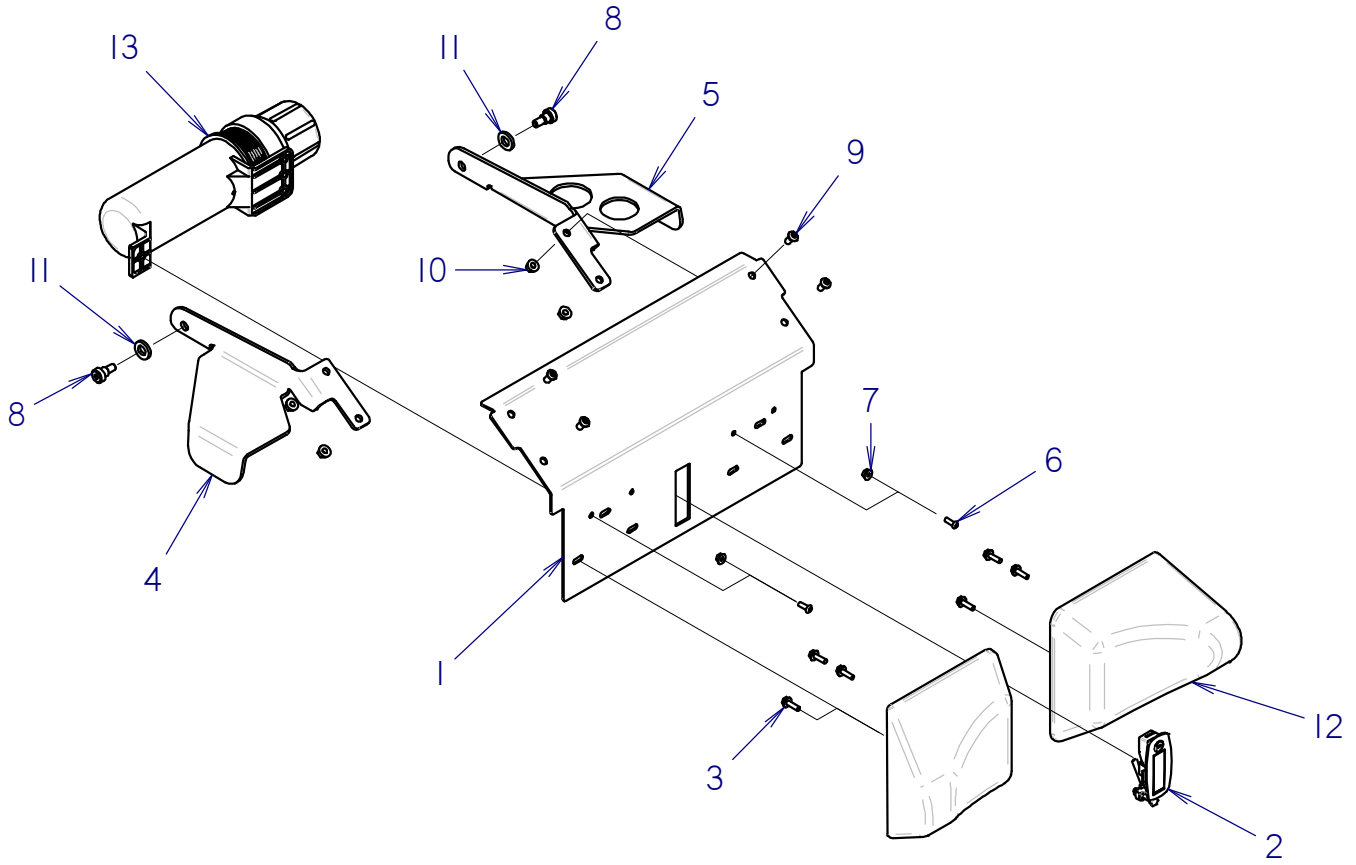
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	111-110	2	PLUG (3/8)	
2	117-558	2	LATCH, ADJUST LEVER (LOCKING)	
3	106-767	4	SCREW (M8-1.25 X 20mm,BUT SOC)	
4	300-6843	1	SK HOOD	
5	105-047	2	LOCKNUT (3/8-NC)	
6	301-2433	2	HINGE PLATE	
7	105-058	2	BELLEVILLE WASHER (1/2")	
8	106-070	2	SHLD BLT (1/2" X 3/8", 3/8-NC)	
9	107-687	4	CLIP NUT M8-1.25, LONG, WIDE	
10	110-655	2	BALL SCREW (5/16-NC X 1/2")	
11	105-089	2	LOCKNUT (5/16-NC)	
12	105-1078	1	STRUT	
13	301-7650	1	STRUT STOP	
14	105-226	2	WASHER (5/16")	

NOT SHOWN:

FOOTNOTES:

NOTE:

REAR ACCESS COVER & MANUAL COMPARTMENT



REAR ACCESS COVER & MANUAL COMPARTMENT

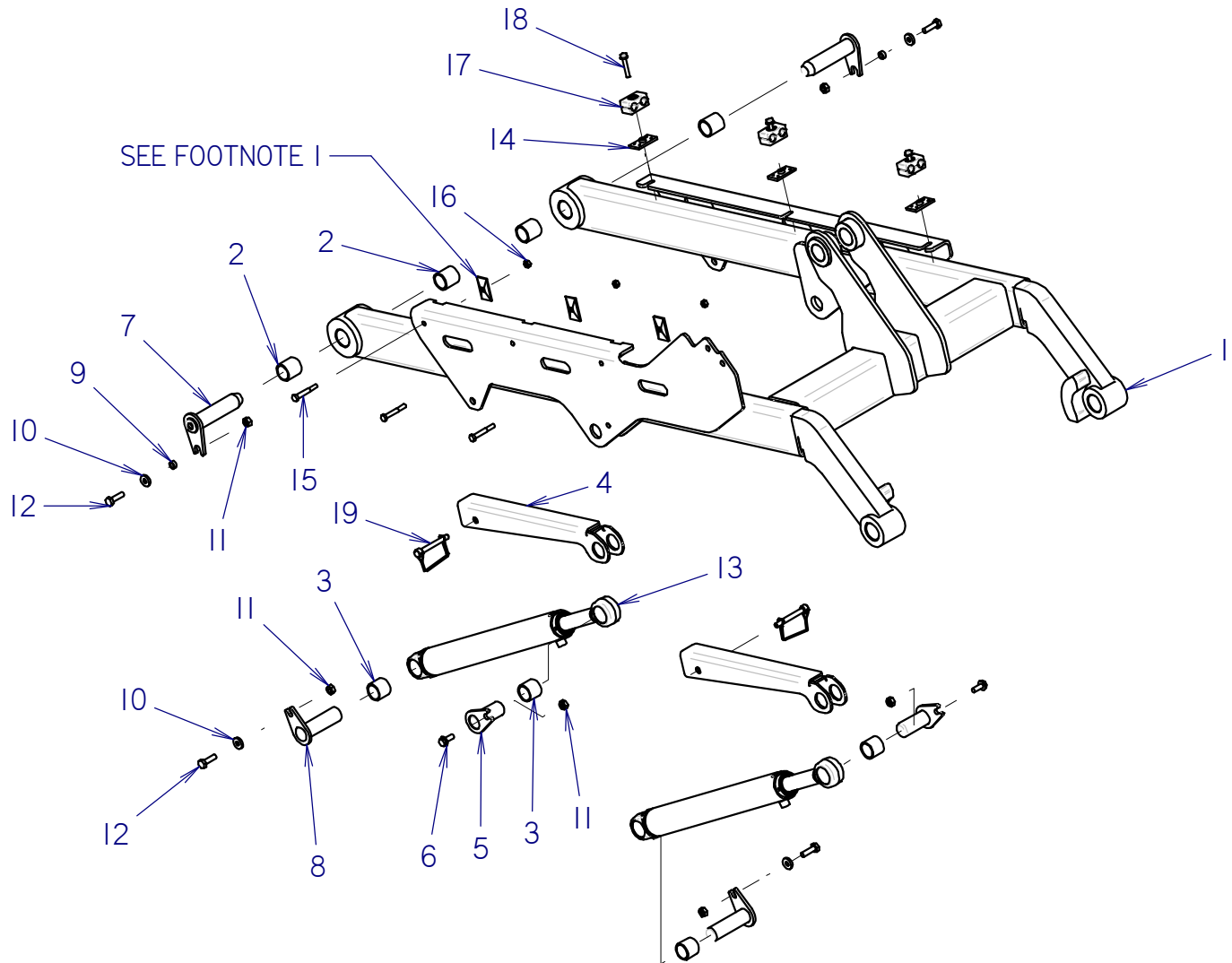
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	301-4984	1	REAR PANEL	
2	117-558	1	LATCH, ADJUST LEVER (LOCKING)	
3	106-379	6	FLG LK SCREW (M6-1.00 X 20MM)	
4	301-4982	1	HINGE COVER	
5	301-4983	1	HINGE COVER	
6	107-193	2	SCREW (M6-1.00 X 16MM,BUT SOC)	
7	106-385	2	FLG LOCKNUT (M6-1.00)	
8	106-070	2	SHLD BLT (1/2" X 3/8", 3/8-NC)	
9	105-1979	4	BOLT (M8-1.25 X 16MM,BUT SOC)	
10	106-386	4	FLG LOCKNUT (M8-1.25)	
11	106-397	2	WASHER (M12, HARDENED)	
12	362-1620	2	CUSHION	
13	250-063	1	MANUAL COMPARTMENT	

NOT SHOWN:

FOOTNOTES:

NOTE:

LIFT ARM MOUNTING



LIFT ARM MOUNTING

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	301-6674	1	LOADER ARM	
2	125-1094	4	COMPOSITION BUSHING (1.25")	
3	125-1000	4	COMPOSITION BUSHING (1.25")	
4	301-6677	2	LIFT STOP	
5	301-6681	2	TAB PIN (1.25" X 2.75")	
6	105-799	2	FLG LK SCREW (M10-1.50 X 25MM)	
7	301-6683	2	TAB PIN (1.25 X 5.25)	
8	300-3496	2	TAB PIN (1.25 X 4.0)	
9	184-888	2	SPACER	
10	105-264	4	WASHER (3/8")	
11	105-894	6	LOCKNUT(M10-1.50,PRV TRQ,10.9)	
12	105-876	4	SCREW (M10-1.50 X 35MM)	
13	151-091	2	CYL (2.0 X 1.25 X 16.0)	
14	323-551	3	WELD PLATE (SP2D)	
15	106-570	3	SCREW (M8-1.25 X 60MM)	
16	106-561	3	LOCKNUT (M8-1.25,PRV TRQ,10.9)	
17	111-146	3	BOLT ON CLAMP (5/8" X 5/8" SET)	
18	105-824	3	FLG LK BOLT (5/16-NC X 1.75")	
19	110-833	2	SNAPPER PIN (3/8" X 2-3/4")	

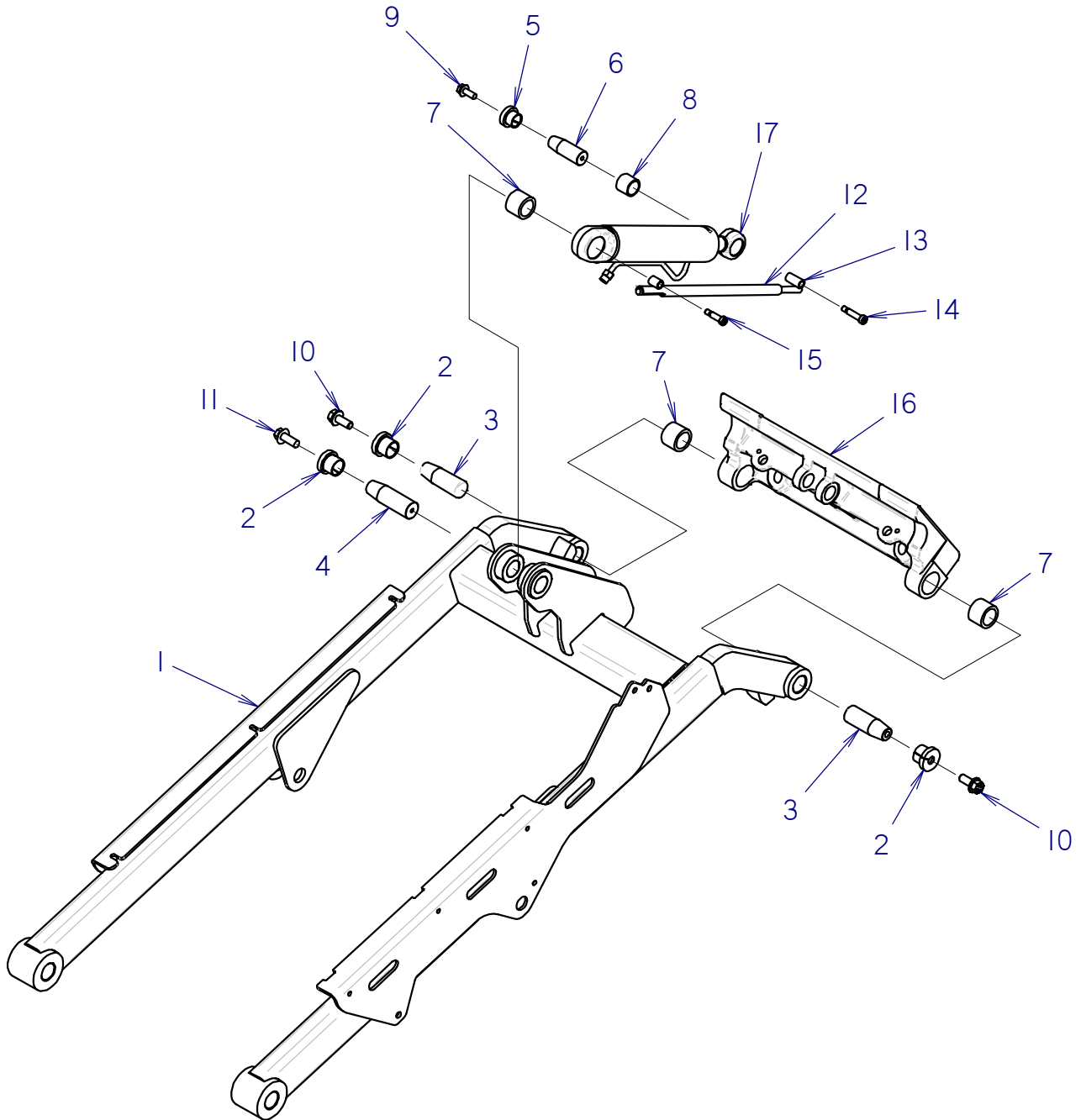
NOT SHOWN:

FOOTNOTES:

- I. USE CLAMP PLATES FROM 111-146 BOLT ON CLAMP (5/8" X 5/8" SET)

NOTE:

ATTACHMENT PLATE MOUNTING



ATTACHMENT PLATE MOUNTING

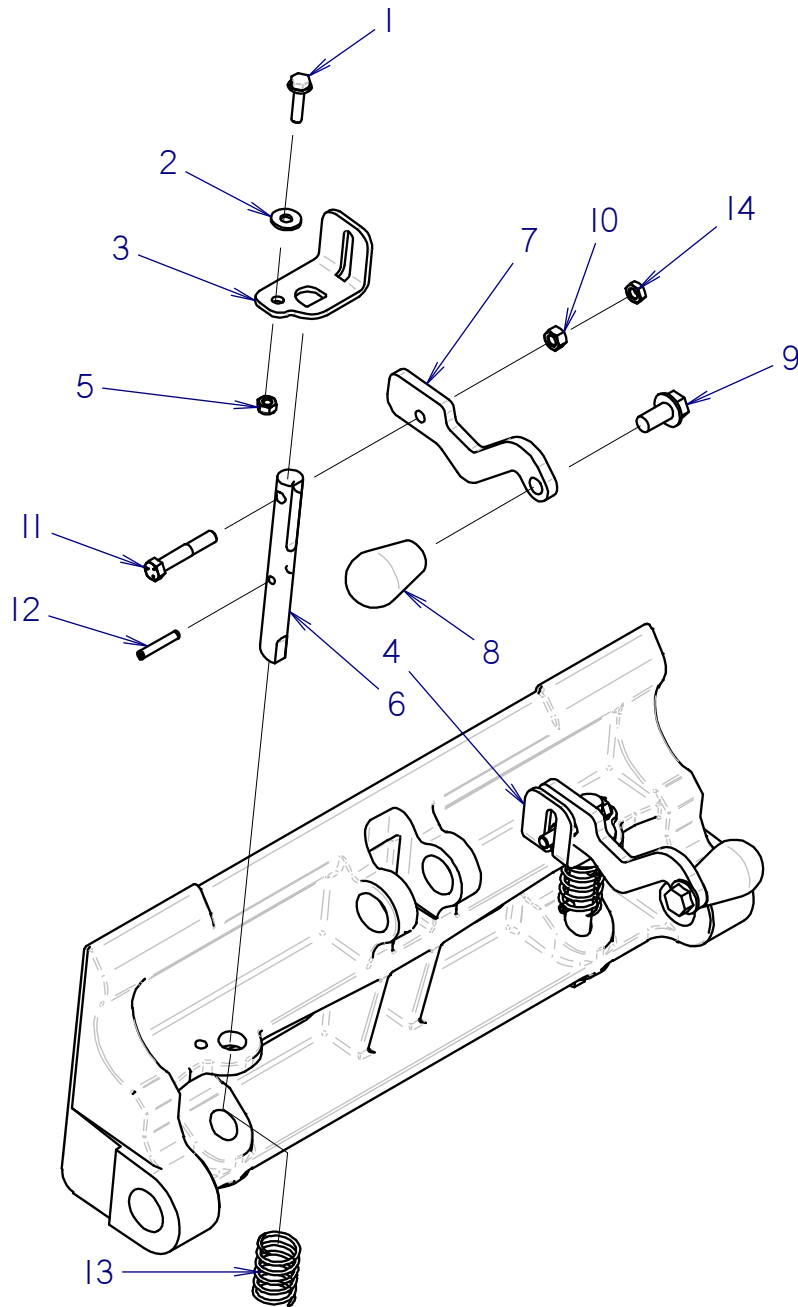
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	301-6674	1	LOADER ARM	
2	181-974	3	TAPERED INSERT (1.5")	
3	179-104	2	TAPERED PIN (1.500" X 4.330")	
4	179-907	1	TAPERED PIN (1.50" X 4.88")	
5	181-982	1	TAPERED INSERT (1.25")	
6	179-908	1	TAPERED PIN (1.25" X 3.54")	
7	125-538	3	COMPOSITION BUSHING (1.5")	
8	125-1000	1	COMPOSITION BUSHING (1.25")	
9	106-469	1	FLG SCREW (M12-1.75 X 30MM)	
10	105-969	2	FLG BOLT (5/8-NC X 1-1/2",GD8)	
11	106-470	1	FLG SCREW (M16-2.0 X 40MM)	
12	323-625	1	LEVEL INDICATOR TUBE	
13	323-626	1	LEVEL INDICATOR ROD	
14	107-483	1	SHLD BLT (M12 X 40MM,M10-1.50)	
15	106-535	1	SHLD BLT (M12 X 30MM,M10-1.50)	
16	324-730	1	QUICK ATTACHMENT PLATE	
17	150-4129	1	CYL (2.5 X 1.25 X 10.0)	

NOT SHOWN:

FOOTNOTES:

NOTE:

AUTO LATCH



AUTO LATCH

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-866	2	FLG LK BOLT (5/16-NC X 1.250")	
2	105-117	2	WASHER (5/16")	
3	302-3046	1	BENT TAB	
4	302-3045	1	BENT TAB	
5	105-089	2	LOCKNUT (5/16-NC)	
6	301-9227	2	LATCH PIN	
7	302-2825	2	ATTACHMENT LEVER	
8	105-2183	2	KNOB (1/2" NC STEEL INSERT)	
9	105-829	2	FLG LK BOLT (1/2-NC X 1")	USE LOCTITE 242 OR EQUIVALENT, SEE FOOTNOTE 1
10	105-053	2	NUT (3/8 NC) HEX	
11	105-162	2	BOLT (3/8-NC X 2-1/4")	USE LOCTITE 242 OR EQUIVALENT, NEAR SHANK SEE NOTE 2
12	105-510	2	ROLL PIN (1/4" X 1-1/2")	
13	118-424	2	COMPRESSION SPRING	
14	105-1547	2	JAM NUT (3/8-NC)	
15*	302-2755	1	QUICK ATTACHMENT PLATE (MODIFIED)	

NOT SHOWN:

FOOTNOTES:

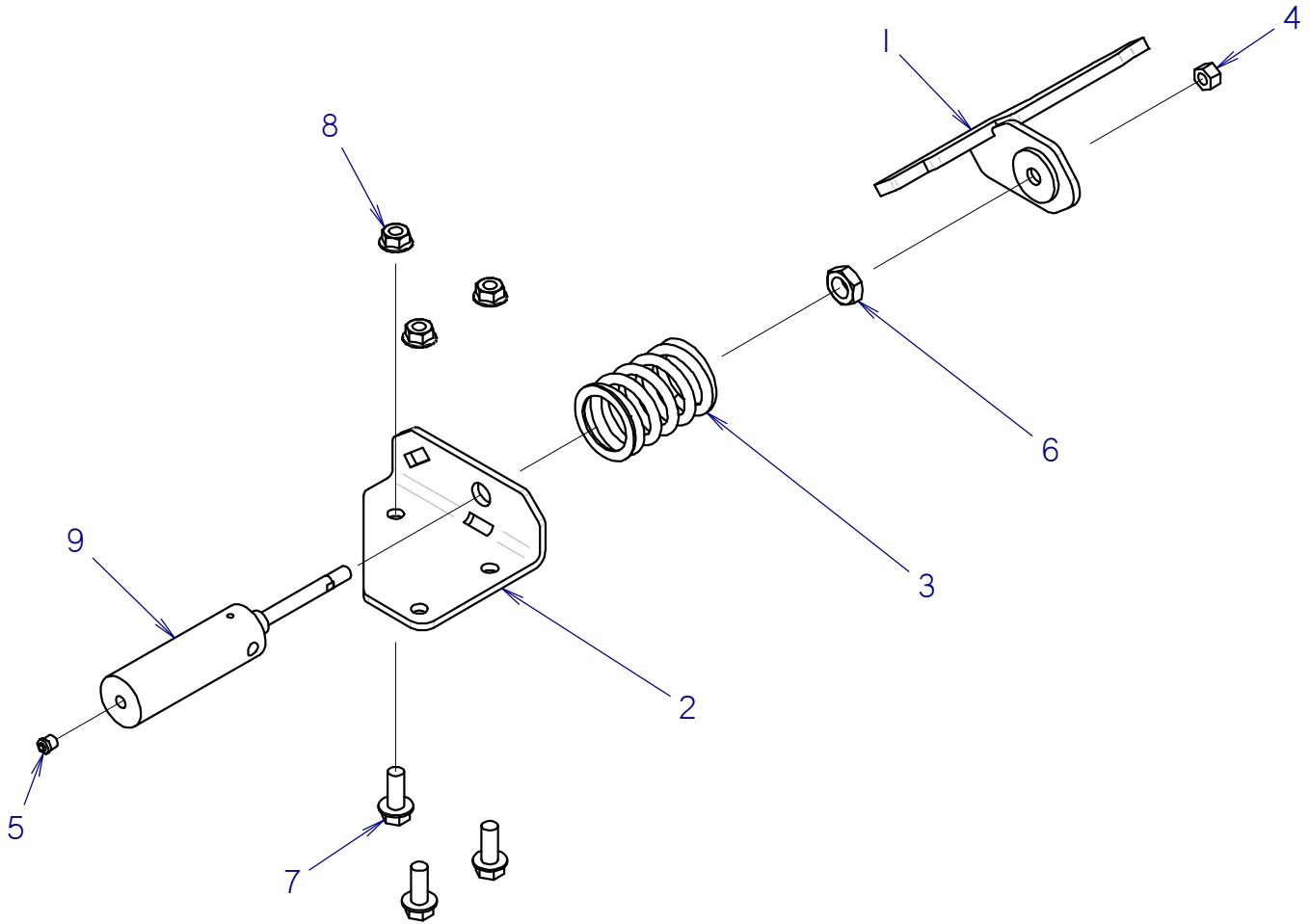
NOTE:

1. DO NOT OVERTIGHTEN. HANDLE MUST ROTATE ON BOLT.
2. BOLT #11 PROTRUDES THRU #3 TAB AS A ROTATION STOP. APPLY LOCTITE ON THREADS CLOSE TO #7 ATTACHMENT LEVER

NOTES:

CONTROL COMPONENTS

PARKING BRAKE



PARKING BRAKE

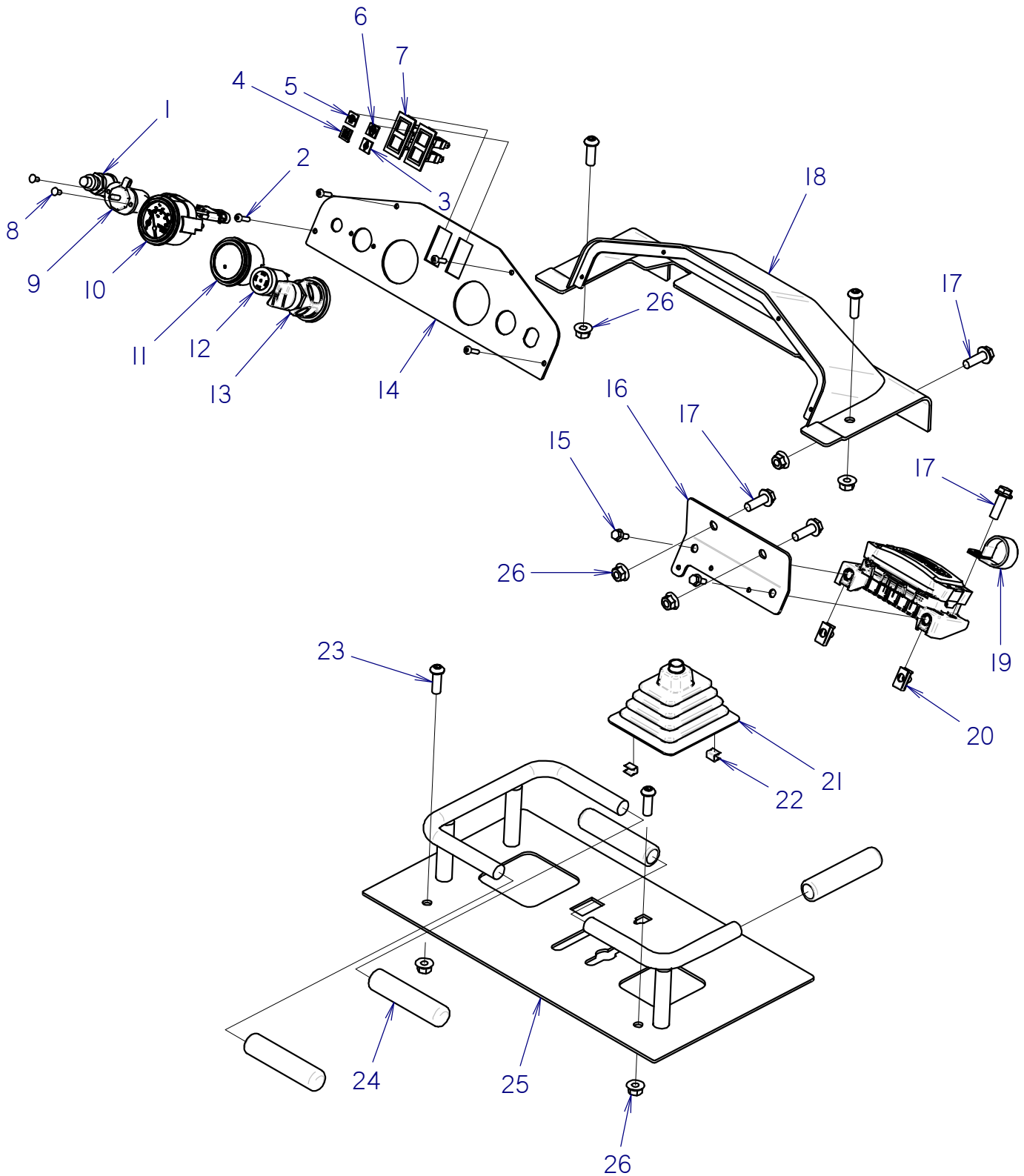
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	301-4987	1	BRAKE PIN	
2	301-4988	1	BRAKE MOUNT PLT	
3	116-869	1	SPRING	
4	105-188	1	LOCKNUT (7/16-NF)	
5	155-912	1	AIR VENT (02N)	
6	105-404	1	JAM NUT (3/4-NF)	
7	105-830	3	FLG LK BOLT (1/2-NC X 1-1/4")	
8	105-833	3	FLG LOCKNUT (1/2-NC)	
9	151-097	1	CYL (1.5" X 0.43" X 2.500")	

NOT SHOWN:

FOOTNOTES:

NOTE:

CONSOLE



CONSOLE

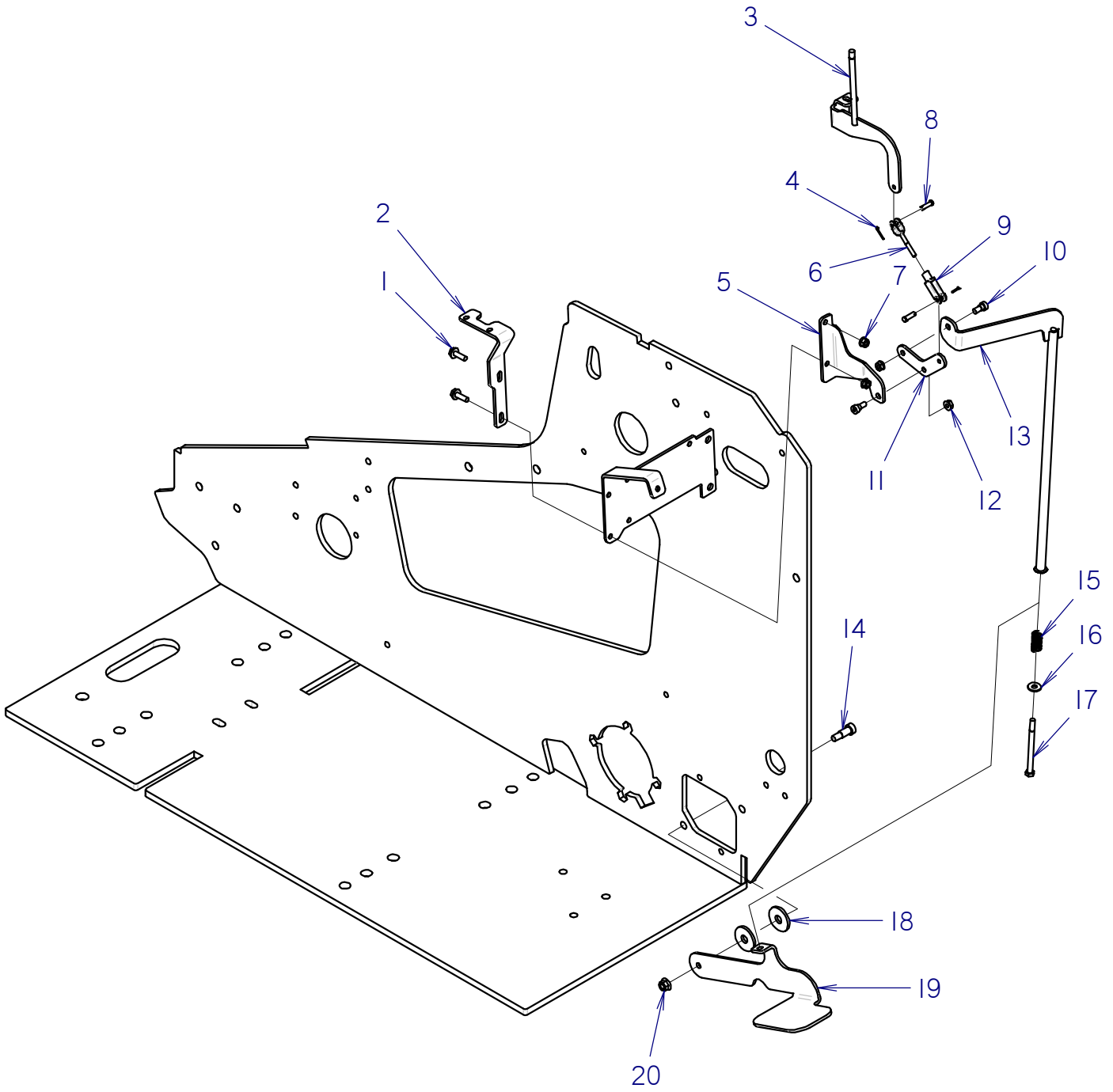
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	306-607	1	HORN BUTTON	
2	105-687	4	SCREW (#10-24 X 3/4",PAN TORX)	
3	217-051	1	INSERT (RED) ENG TEMP	
4	217-027	1	INSERT (RED) HYD OIL HI TEMP	
5	217-021	1	INSERT (RED) ENG OIL PSI	
6	213-277	1	INSERT (YELLOW) PREHEAT	
7	217-020	2	PILOT LIGHT	
8	110-560	2	POP RIVET (3/16" X 1/2", ALUM)	
9	214-301	1	ACCESSORY SOCKET	
10	217-512	1	WATER TEMPERATURE GAUGE	
11	215-2594	1	HOUR METER	
12	306-603	1	AUDIO ALARM	
13	215-2013	1	IGNITION SWITCH	USE REPLACEMENT KEY 105-1790 & 105-1791 BLK BOOT, KEY COVER
14	300-6844	1	PANEL	
15	106-712	2	FLG SCREW (M6-1.00 X 16MM)	
16	301-6885	1	BRACKET	
17	106-164	4	FLG LK SCREW (M10-1.50 X 30MM)	
18	301-6691	1	CONTROL PANEL	
19	105-1454	1	CLAMP, BOLT-ON ("P") I 1/4"	
20	106-574	2	CLIP NUT (M6-1.00)	
21	362-1148	1	BOOT	
22	362-1269	2	U-CLIP	
23	105-1098	4	BOLT (M10-1.50 X 30MM,BUT SOC)	
24	362-1942	4	GRIP (.75 X 4.5)	
25	301-1748	1	CONTROL REFERENCE BAR	
26	106-387	7	FLG LOCKNUT (M10-1.50)	

NOT SHOWN:

FOOTNOTES:

NOTE:

AUXILIARY CONTROL FOOT PEDAL



AUXILIARY CONTROL FOOT PEDAL

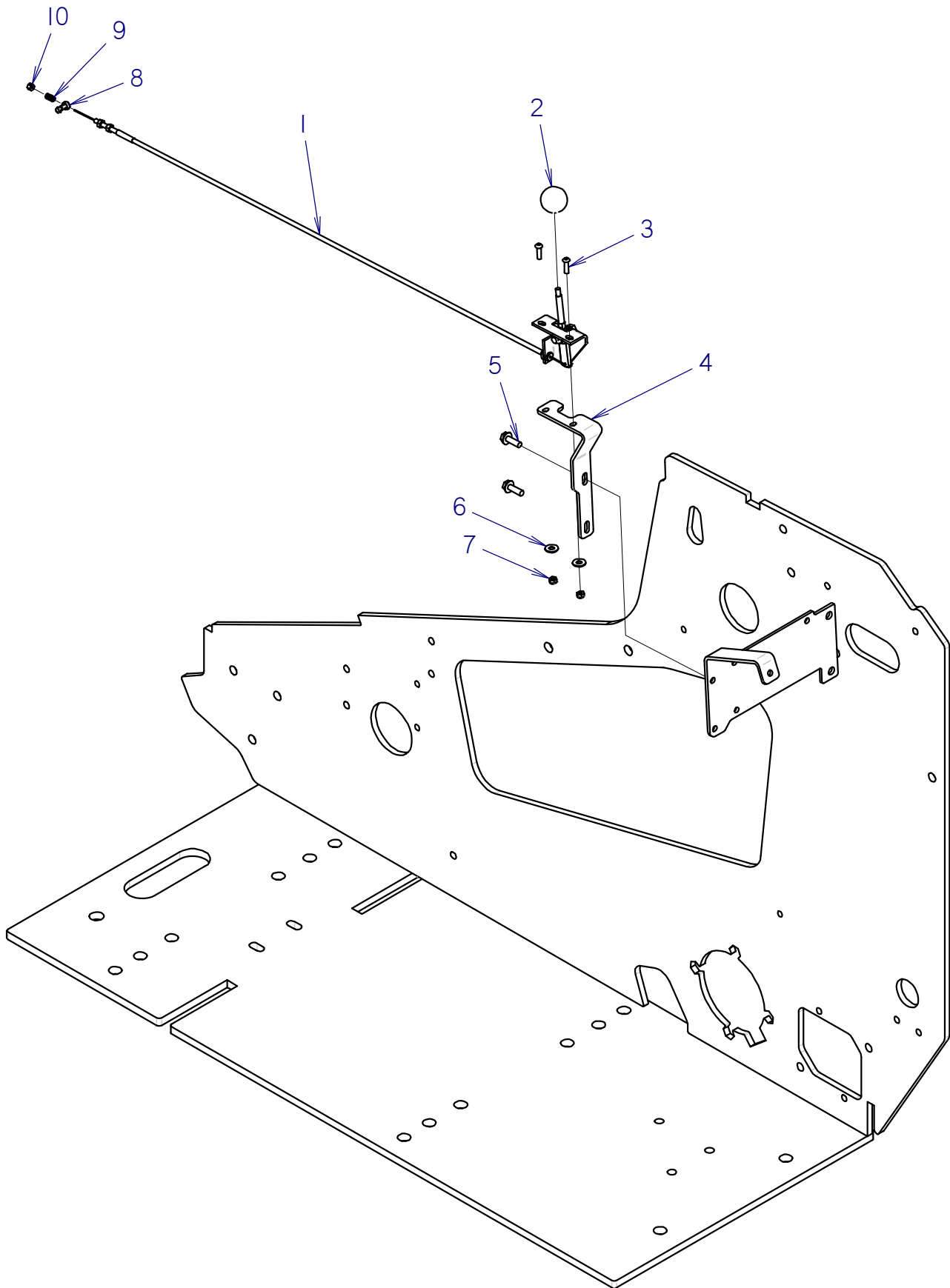
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	106-381	2	FLG LK SCREW (M8-1.25 X 25MM)	
2	301-1697	1	THROTTLE BRACKET	
3	301-8851	1	AUX CONTROL LEVER	
4	105-512	2	COTTER PIN (.094 X .750)	
5	301-6666	1	PIVOT MOUNT	
6	105-1189	1	CLEVIS MALE THREAD (1/4 NF)	
7	106-386	2	FLG LOCKNUT (M8-1.25)	
8	110-082	2	CLEVIS PIN (1/4 X 11/16)	
9	110-067	1	CLEVIS (1/4-NF)	
10	107-582	2	SHLD BOLT(3/8" X 1/4",5/16-NC)	
11	301-6667	1	PIVOT PLT	
12	105-003	2	FLG LOCKNUT (5/16-NC)	
13	301-6668	1	CONTROL ROD	
14	106-739	1	SHLD BLT (M12 X 20MM,M10-1.50)	
15	117-003	1	COMPRESSION SPRING - INSTALLED HEIGHT	
16	105-117	1	WASHER (5/16")	
17	106-128	1	BOLT (M8-1.25 X 110MM)	
18	105-088	2	WASHER (9/16")	
19	301-6670	1	PEDAL	
20	106-387	1	FLG LOCKNUT (M10-1.50)	

NOT SHOWN:

FOOTNOTES:

NOTE:

THROTTLE CABLE



THROTTLE CABLE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-1069	1	CABLE THROTTLE (34"HD)	SEE FOOTNOTE 1
2	111-064	1	KNOB (1/4-NC, ORANGE)	
3	106-640	2	SCREW (M6-1.00 X 20MM,BUT SOC)	
4	301-1697	1	THROTTLE BRACKET	
5	106-381	2	FLG LK SCREW (M8-1.25 X 25MM)	
6	105-095	2	WASHER (1/4")	
7	106-237	2	LOCKNUT (M6-1.00,PRV TRQ,NLKI)	
8	196-058	1	CABLE SWIVEL (1.081")	SEE FOOTNOTE 1
9	115-618	1	COMPRESSION SPRING (.625")	SEE FOOTNOTE 1
10	107-912	1	CABLE STOP	SEE FOOTNOTE 1

NOT SHOWN:

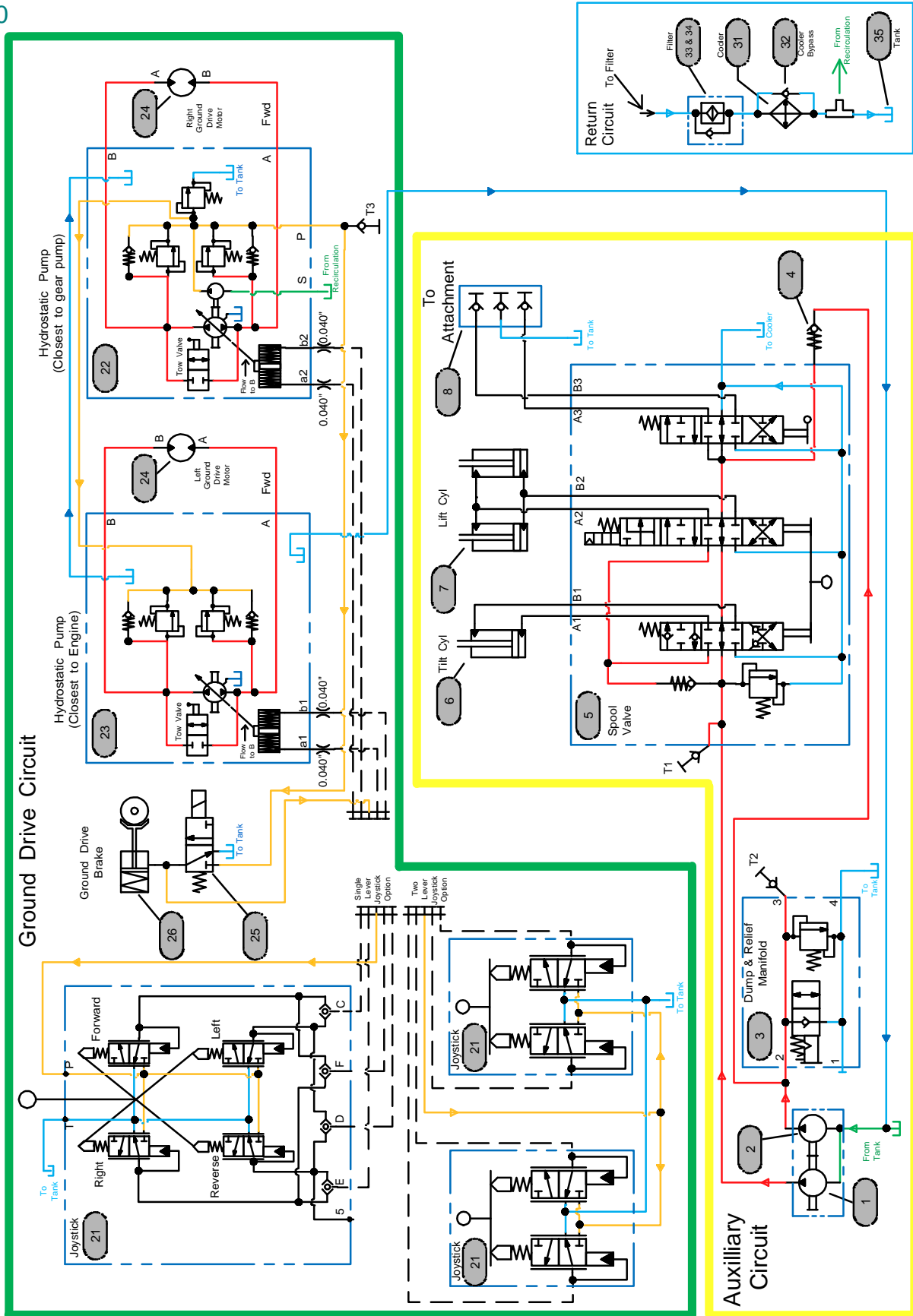
FOOTNOTES:

1. IF UNIT DOES NOT HAVE REF#9 AND REF#10 THESE WILL NEED TO BE ORDERED WITH A NEW 195-1069 THROTTLE CABLE. CONFIRM WASHERS MOUNTING THE 196-058 CABLE SWIVEL ARE INSTALLED AS SHOWN ON ID0293681.

NOTE:

HYDRAULICS

HYDRAULIC SCHEMATIC SK800



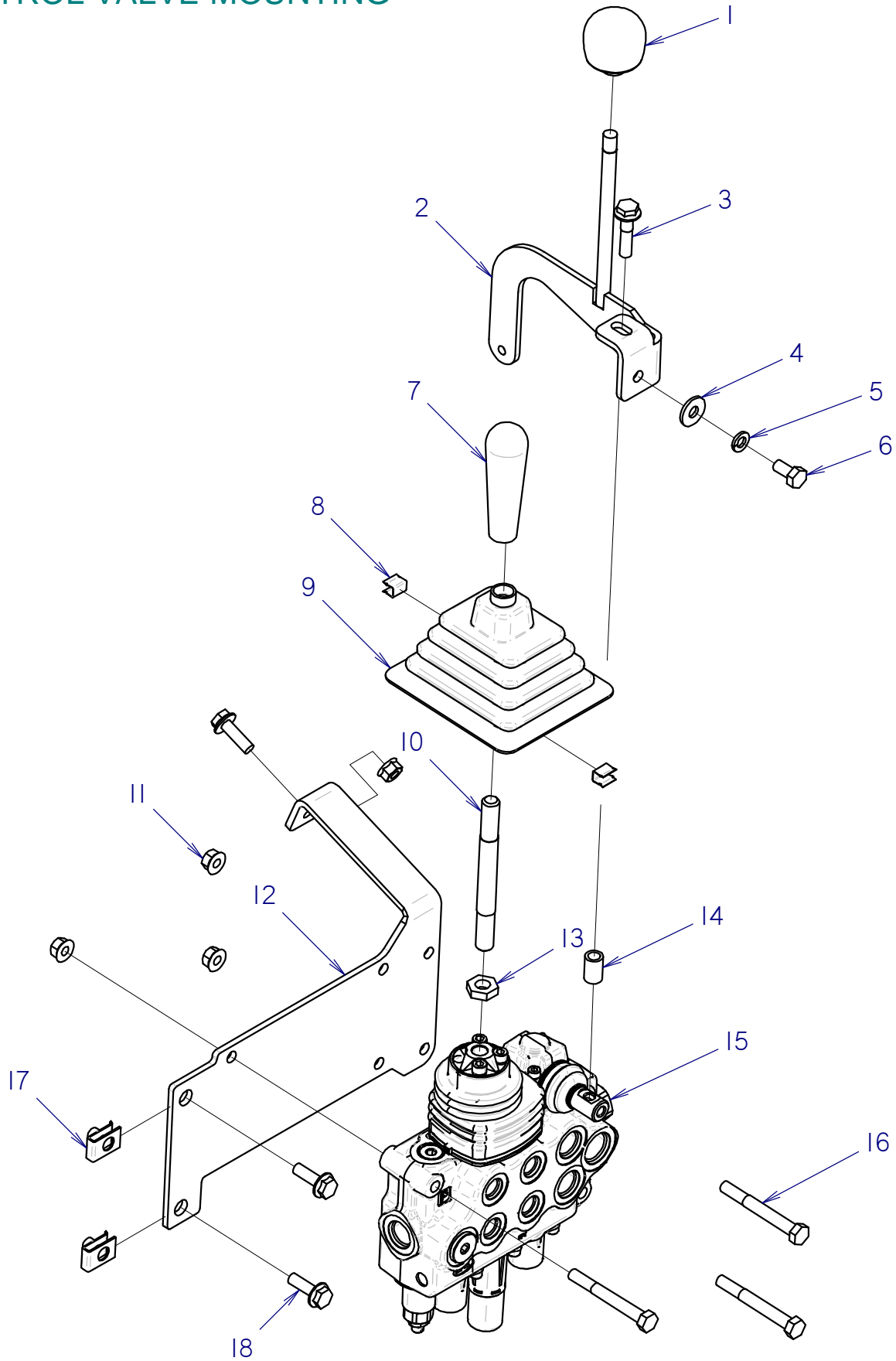
HYDRAULIC SCHEMATIC

SK800

Ref	Qty	Circuit	Component	Notes:
1	1	Auxiliary	Gear pump #1	Front pump of double gear pump
2	1	Auxiliary	Gear Pump #2	Back pump of double gear pump
3	1	Auxiliary	Dump & Relief Manifold	
4	1	Auxiliary	Check Valve	
5	1	Auxiliary	Spool Valve	
6	1	Auxiliary	Tilt Cylinder	
7	2	Auxiliary	Lift Cylinder	
8	1	Auxiliary	Quick Connect Manifold	
21	2	Ground Drive	Two Separate Joysticks	Optional
21	1	Ground Drive	Two axis Joystick	Optional
22	1	Ground Drive	Rear Hydrostatic Pump	
23	1	Ground Drive	Front Hydrostatic Pump	
24	2	Ground Drive	GD Motor	
25	1	Ground Drive	Brake Valve	
26	1	Ground Drive	Brake Cylinder	
31	1	Return	Cooler	
32	1	Return	Cooler bypass check	
33	1	Return	Filter head	
34	1	Return	Filter Element	
35	1	Return	Reservoir	

	Circuit	Test port	Description	Nominal Values
	Auxilliary (Pump 1)	T1	Gear Pump Circuit #1 (Relief in spool valve)	3000 psi
	Auxilliary (Pump 2)	T2	Gear Pump Circuit #2 (Releif in manifold)	2500 psi
	Charge Circuits	T3	Charge Pressure	350 psi
	Ground Drive	install test port	Lt track fwd max psi	4000 psi
	Ground Drive	install test port	Lt track rev max psi	4000 psi

CONTROL VALVE MOUNTING



CONTROL VALVE MOUNTING

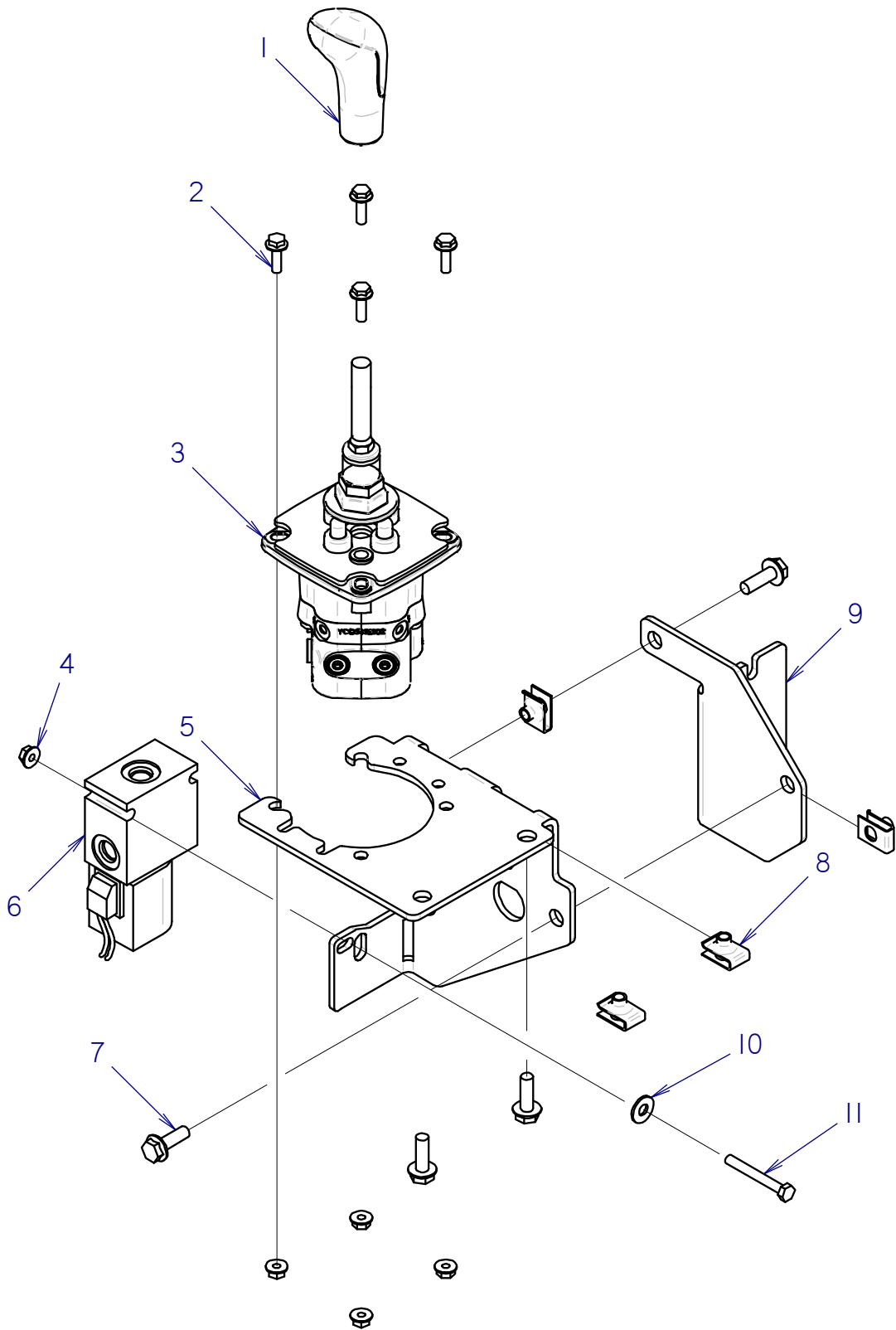
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	362-1135	1	KNOB	
2	301-8851	1	AUX CONTROL LEVER	
3	106-989	1	FLG LK SCREW (M8-1.25 X 35MM)	
4	105-117	1	WASHER (5/16")	
5	105-091	1	LOCK WASHER (5/16")	
6	106-232	1	SCREW (M8-1.25 X 16MM)	
7	110-530	1	HANDLE (1/2-NC, GREEN)	
8	362-1269	2	U-CLIP	
9	362-1148	1	BOOT	
10	301-7109	1	LEVER	
11	106-386	4	FLG LOCKNUT (M8-1.25)	
12	301-6665	1	VALVE MOUNT	
13	107-669	1	JAM NUT (M12-1.75)	
14	184-655	1	BUSHING (BREAK-OUT WRENCH)	
15	150-4131	1	VALVE SD5-3	
16	106-330	3	SCREW (M8-1.25 X 70MM)	
17	106-551	2	CLIP NUT (M8-1.25)	
18	106-381	3	FLG LK SCREW (M8-1.25 X 25MM)	

NOT SHOWN:

FOOTNOTES:

NOTE:

SINGLE JOYSTICK MOUNTING



SINGLE JOYSTICK MOUNTING

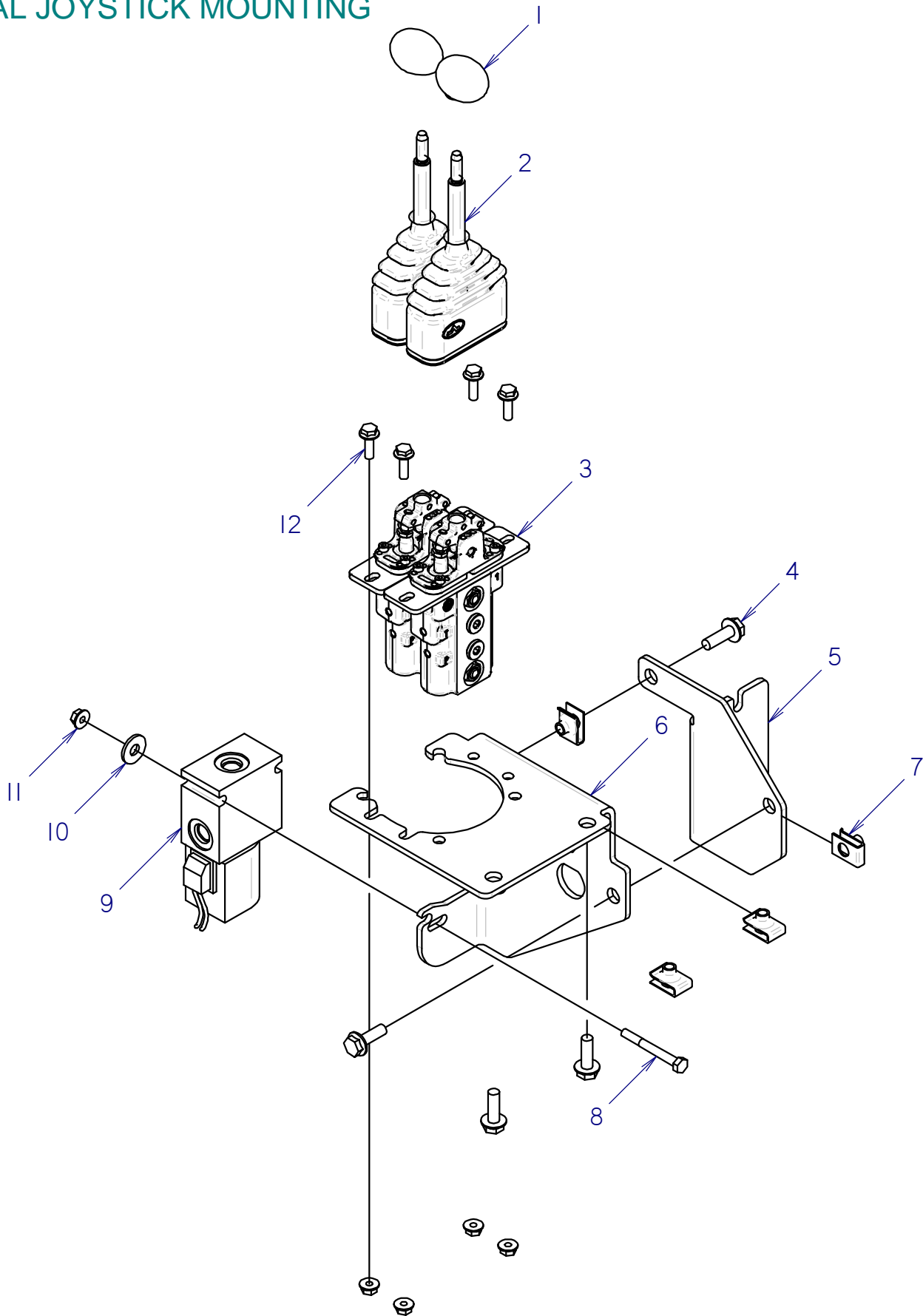
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	362-1133	1	KNOB	
2	106-161	4	FLG SCREW (M6-1.00 X 20MM)	
3	150-2619	1	PILOT JOYSTICK DUAL AXIS W/SHUTTLE BLK	
4	106-385	5	FLG LOCKNUT (M6-1.00)	
5	302-2960	1	JOYSTICK PLT	
6	158-627	1	SOLENOID VALVE	
7	106-381	4	FLG LK SCREW (M8-1.25 X 25MM)	
8	106-551	4	CLIP NUT (M8-1.25)	
9	300-8947	1	BYPASS BRACKET	
10	105-095	1	WASHER (1/4")	
11	107-025	1	SCREW (M6-1.00 X 50MM)	

NOT SHOWN:

FOOTNOTES:

NOTE:

DUAL JOYSTICK MOUNTING



DUAL JOYSTICK MOUNTING

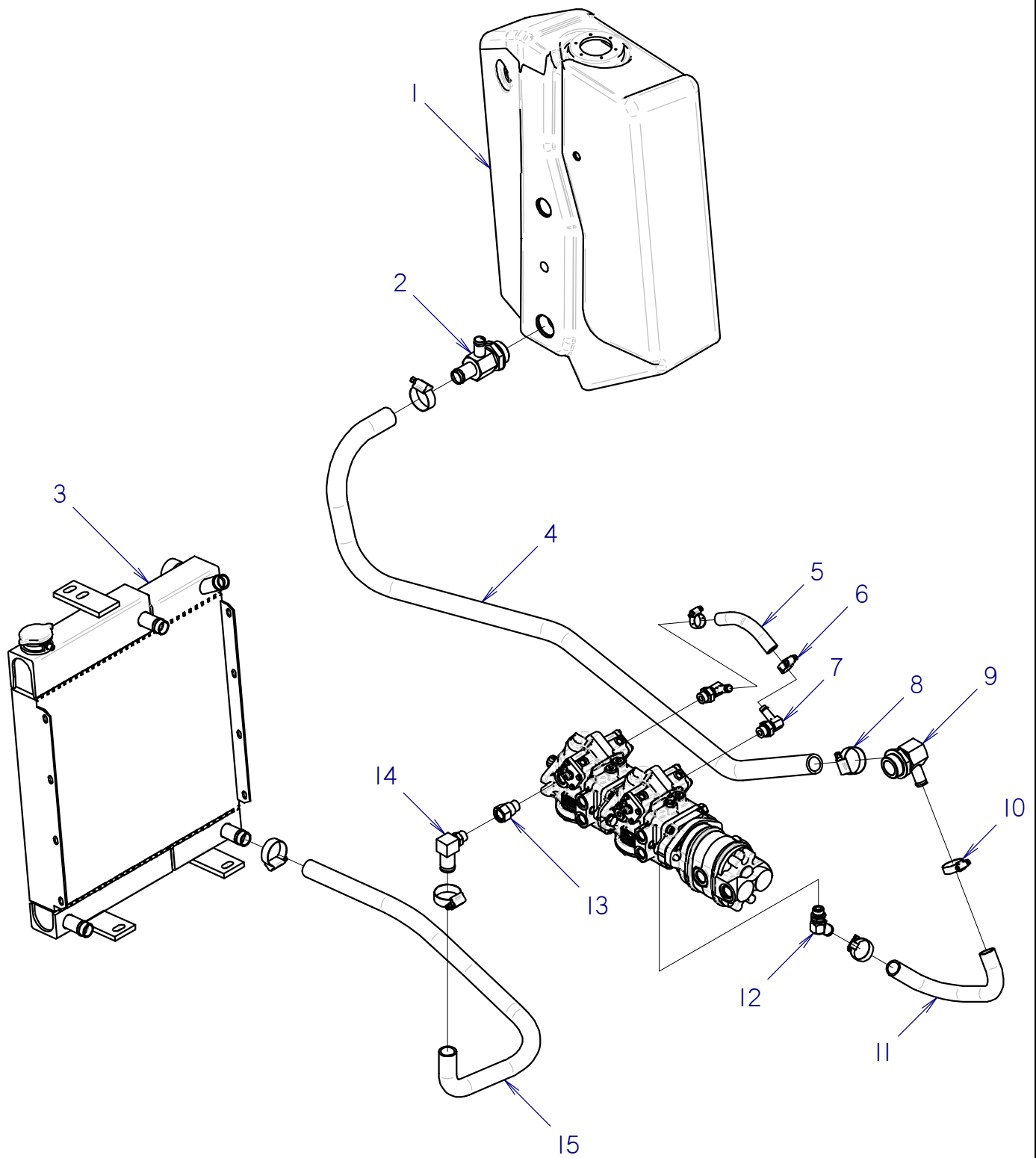
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
-	350-5315	-	DUAL JOYSTICK ASM	INCLUDES ITEMS 1-3
1	105-2364	2	ROUND KNOB	
2	150-5076	2	SVM100 LEVER	
3	150-2629	1	PILOT CONTROL VALVE (2 LEVER)	
4	106-381	4	FLG LK SCREW (M8-1.25 X 25MM)	
5	300-8947	1	BYPASS BRACKET	
6	302-2960	1	JOYSTICK PLT	
7	106-551	4	CLIP NUT (M8-1.25)	
8	106-893	1	SCREW (M6-1.00 X 55MM)	
9	158-627	1	SOLENOID VALVE	
10	105-117	1	WASHER (5/16")	
11	106-385	5	FLG LOCKNUT (M6-1.00)	
12	106-161	4	FLG SCREW (M6-1.00 X 20MM)	

NOT SHOWN:

FOOTNOTES:

NOTE:

SUPPLY HYDRAULICS



SUPPLY HYDRAULICS

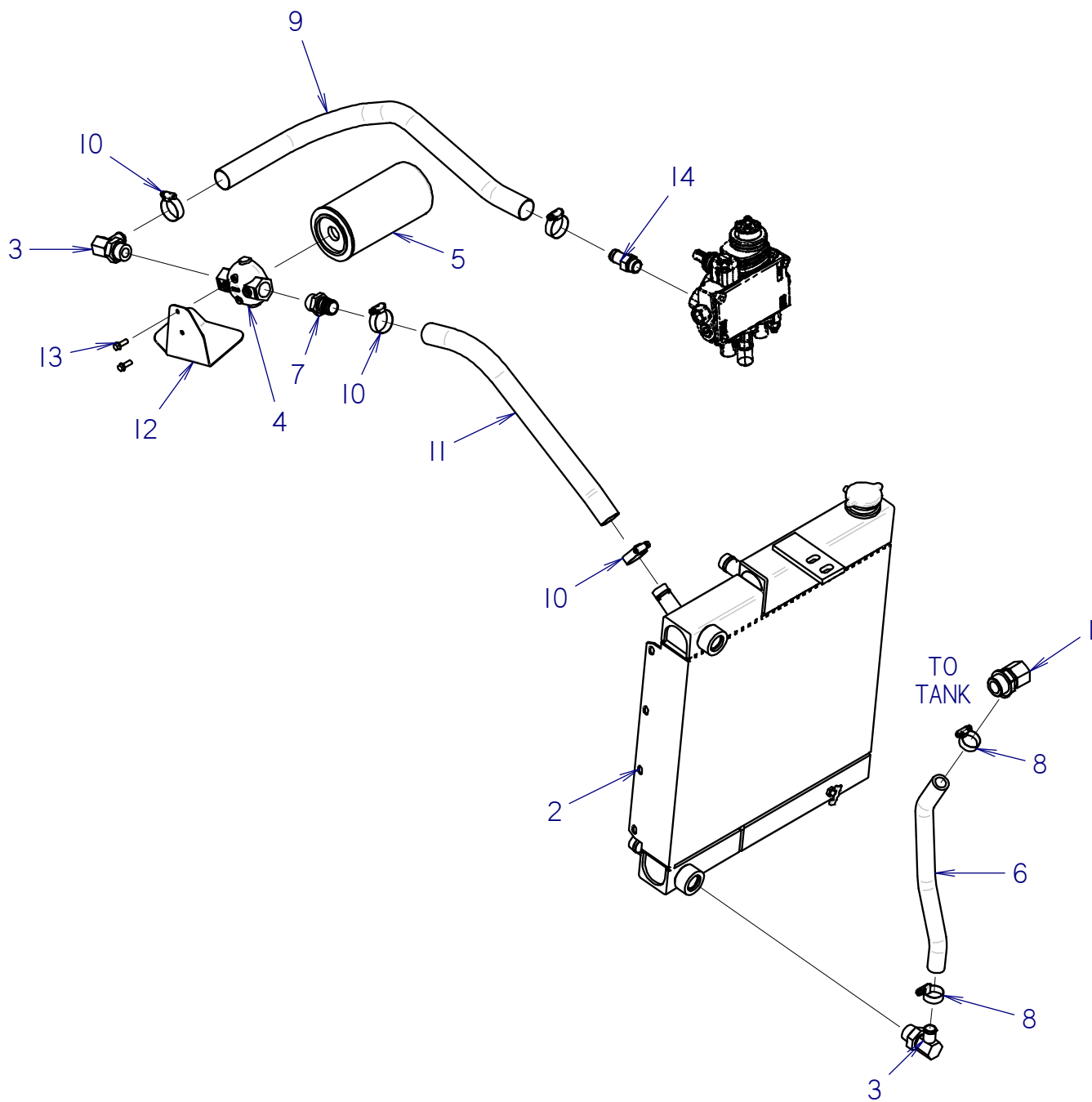
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	364-1011	1	HYDRAULIC TANK	
2	159-638	1	S/O BR TEE (20S-16H-12H-06S)	
3	195-1268	1	RADIATOR/OIL COOLER	
4	116-460	63	BULK HOSE (1", SOLD PER FT)	
5	116-286	6	1/2" BULK HOSE	
6	110-217	2	WORM CLAMP (7/16" TO 1")	
7	514-297	2	S/O COUPLER (08S-08H90)	
8	111-011	4	WORM CLAMP (1" TO 1-3/4")	
9	152-118	1	S/O TEE (20S-16H-12H)	
10	110-353	2	WORM CLAMP (3/4" TO 1-1/2")	
11	116-636	15	BULK HOSE (3/4", SOLD PER FT)	
12	149-897	1	ELBOW (08S-12H45)	
13	153-995	1	CONNECTOR (08S-08SF)	
14	152-188	1	S/O COUPLER (08S-16H90)	
15	116-460	40	BULK HOSE (1", SOLD PER FT)	

NOT SHOWN:

FOOTNOTES:

NOTE:

RETURN & FILTER HYDRAULICS



RETURN & FILTER HYDRAULICS

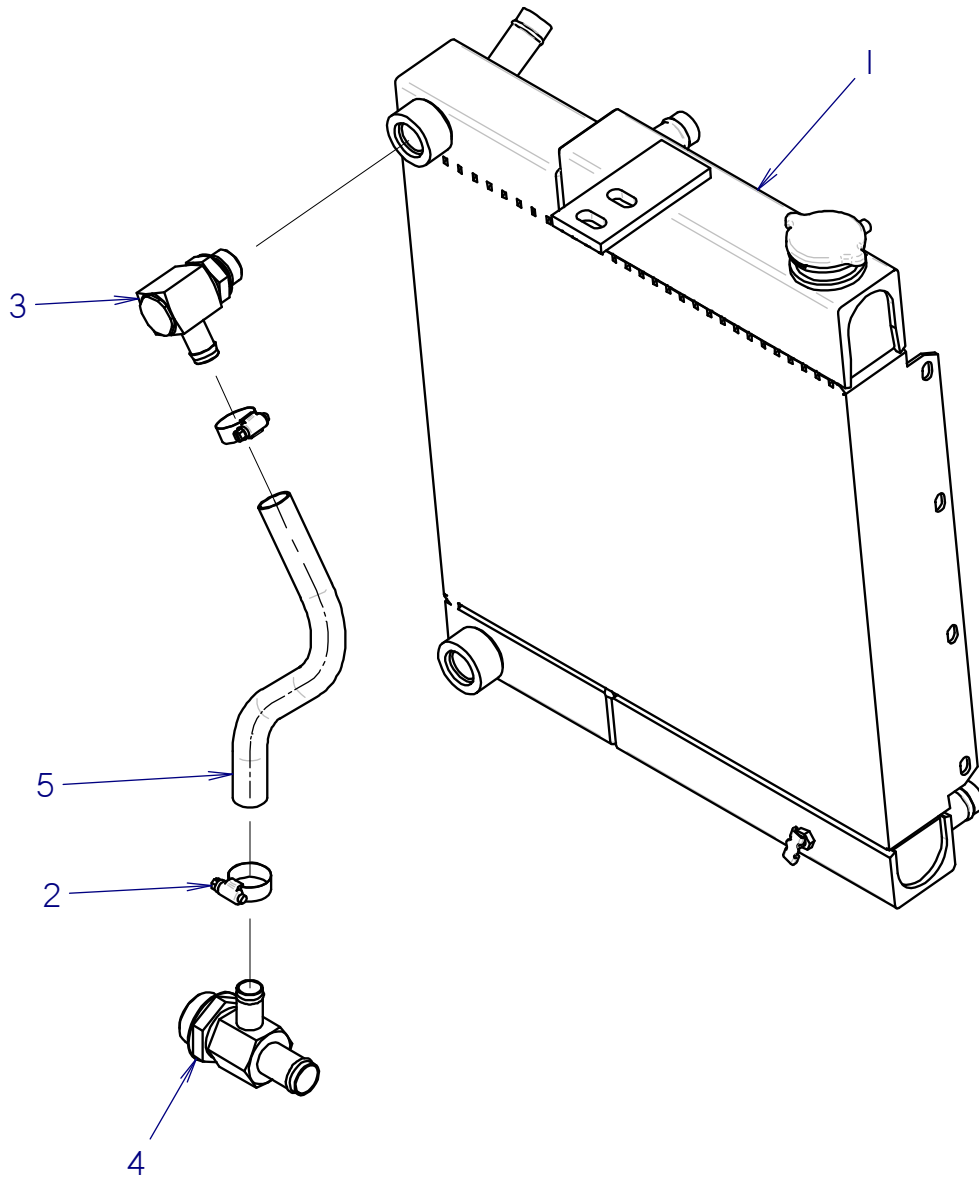
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	155-183	1	S/O COUPLER (16S-12H90)	
2	195-1268	1	RADIATOR/OIL COOLER	
3	155-174	2	S/O COUPLER (12S-12H90)	
4	159-386	1	FILTER HEAD (12SF-12SF)	
5	149-412	1	FILTER ELEMENT (1-UNF)	
6	116-636	16	BULK HOSE (3/4", SOLD PER FT)	
7	155-161	1	S/O COUPLER (12S-16H)	
8	110-026	2	WORM CLAMP (1/2" TO 1-1/4")	
9	116-636	28	BULK HOSE (3/4", SOLD PER FT)	
10	110-353	4	WORM CLAMP (3/4" TO 1-1/2")	
11	116-460	20	BULK HOSE (1", SOLD PER FT)	
12	301-6763	1	CATCH TRAY	
13	106-159	2	FLG SCREW (1/4-NC X 3/4")	
14	514-128	1	S/O COUPLER (10S-12H)	

NOT SHOWN:

FOOTNOTES:

NOTE:

COOLER BY-PASS HYDRAULICS



COOLER BY-PASS HYDRAULICS

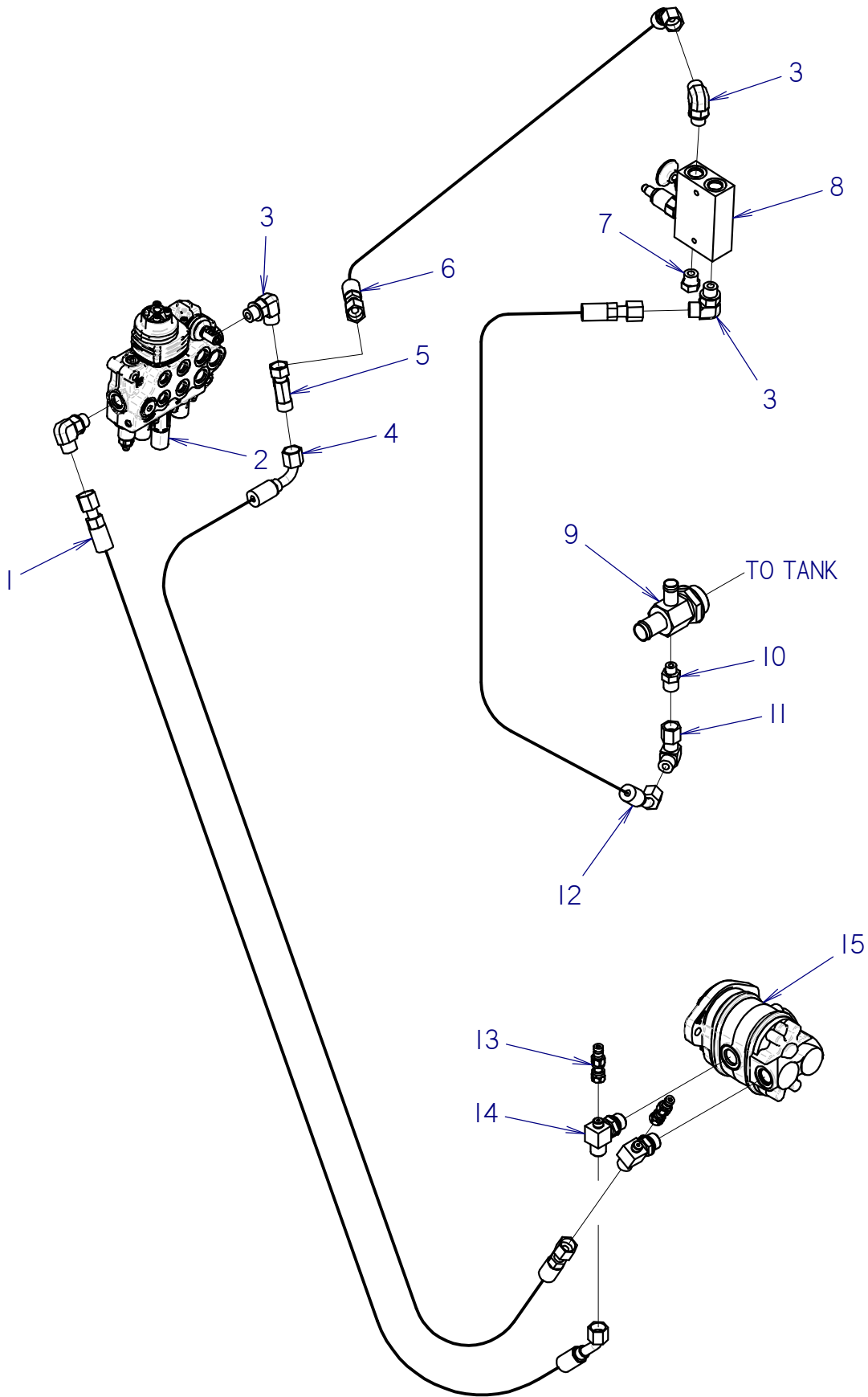
REF PART NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-1268	1	RADIATOR/OIL COOLER	
2	110-026	2	WORM CLAMP (1/2" TO 1-1/4")	
3	150-2604	1	S/O COUPLER (12S-12H90) W/ CHECK	
4	159-638	1	S/O BR TEE (20S-16H-12H-06S)	
5	116-636	13	BULK HOSE (3/4", SOLD PER FT)	

NOT SHOWN:

FOOTNOTES:

NOTE:

AUXILIARY PUMP PRESSURE HYDRAULICS



AUXILIARY PUMP PRESSURE HYDRAULICS

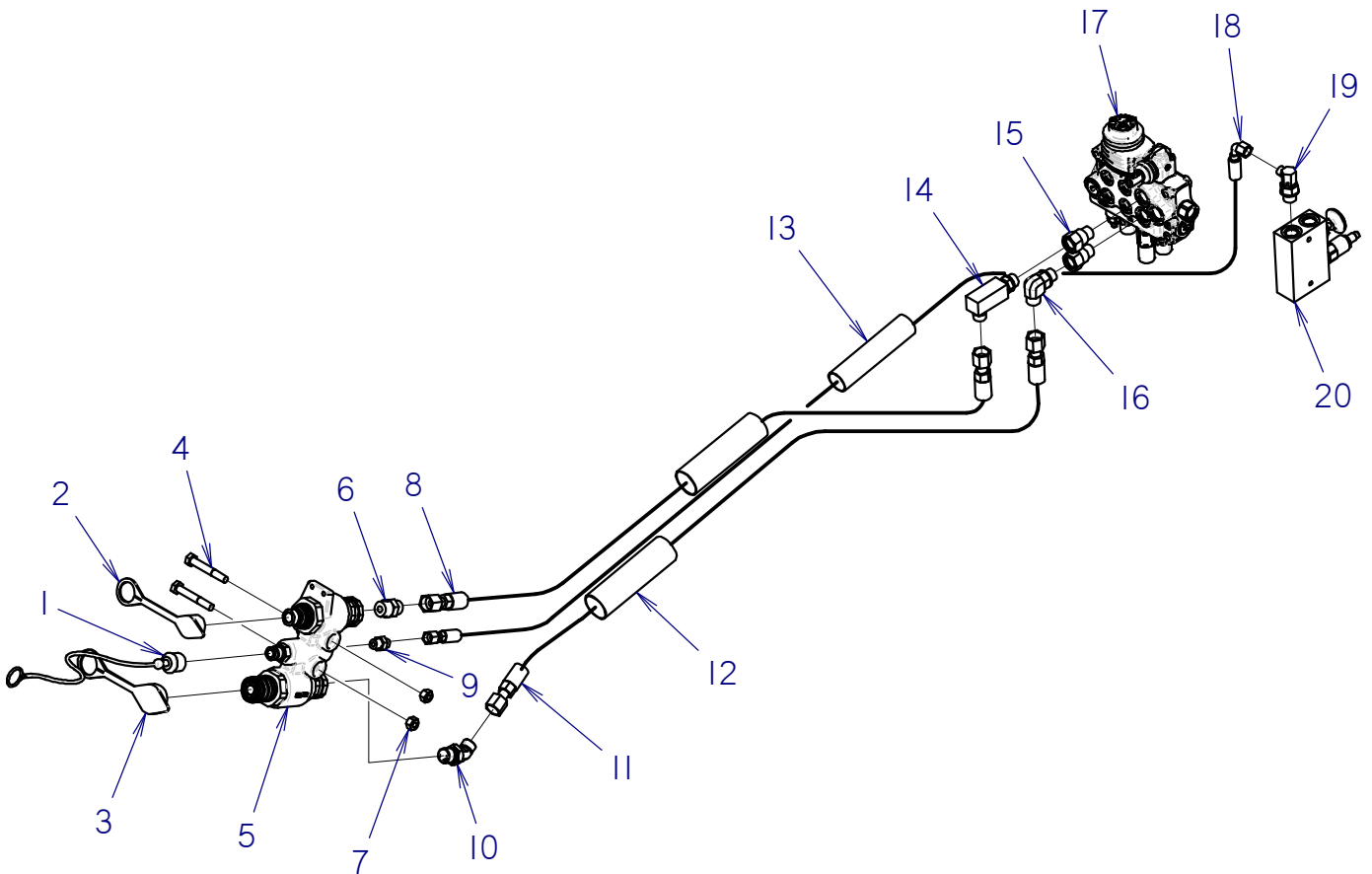
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	154-770	1	HOSE (080FX45-66"-3000)	
2	150-4131	1	VALVE SD5-3	
3	154-235	4	CONNECTOR (08S-08090)	
4	159-851	1	HOSE (080FX90S-68"-3000)	
5	154-266	1	UNION RUN TEE (080FX-080-080)	
6	154-747	1	HOSE (080FX45-21"-3000)	
7	154-381	1	PLUG (08S)	
8	150-3402	1	HYD MANIFOLD, RELIEF & 2 POS 2 WAY	
9	350-3953	1	HYDRAULIC TANK ASSEMBLY	
10	154-246	1	CONNECTOR (06S-080)	
11	154-256	1	UNION (080-080FX90)	
12	154-943	1	HOSE (080FX45-30"-3000)	
13	159-156	2	QDC ADAPTER (02-040F)	
14	156-973	2	BRANCH TEE (080-040-10S)	
15	150-3573	1	HYD PUMP CW DOUBLE DISP GEAR (50/40)	

NOT SHOWN:

FOOTNOTES:

NOTE:

AUXILIARY HYDRAULICS



AUXILIARY HYDRAULICS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-1284	1	DUST CAP (3/8" QD)	
2	159-871	1	DUST CAP	
3	159-870	1	DUST CAP	
4	106-332	2	SCREW (M10-1.50 X 70MM)	
5	150-2410	1	QDC MANIFOLD	SEE FOOTNOTE 1
6	154-279	1	CONNECTOR (080-10S)	
7	105-894	2	LOCKNUT(M10-1.50,PRV TRQ,10.9)	
8	150-4611	1	HOSE (080FX-74"-4000)	
9	154-220	1	CONNECTOR (040-06S)	
10	154-264	1	CONNECTOR (080-10S45)	
11	150-4611	1	HOSE (080FX-74"-4000)	
12	115-963	2	ABRASION SLEEVE (1.59" X 75")	
13	117-556	1	ABRASION SLEEVE (1.25" X 80")	
14	154-254	1	CONNECTOR (08S-08090, XL)	
15	153-995	2	CONNECTOR (08S-08SF)	
16	154-235	1	CONNECTOR (08S-08090)	
17	150-4131	1	VALVE SD5-3	
18	157-911	1	HOSE (040FX90S-85"-3000)	
19	154-276	1	CONNECTOR (040-08S90)	
20	150-3402	1	HYD MANIFOLD, RELIEF & 2 POS 2 WAY	

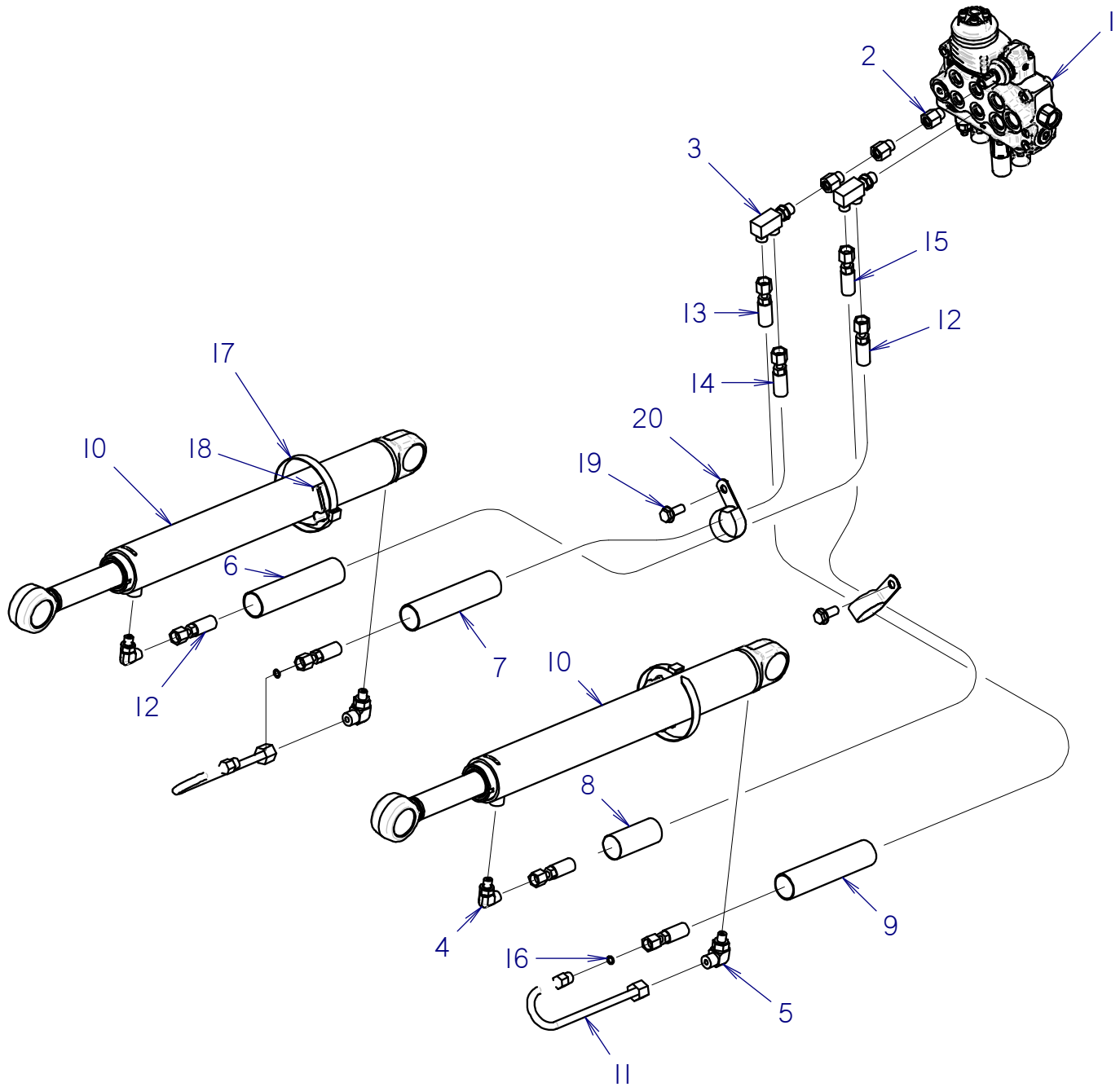
NOT SHOWN:

FOOTNOTES:

1. 150-3703 (3/8" MALE COUPLING KIT); 150-3702 (1/2" MALE COUPLING KIT); 150-3704 (1/2" FEMALE COUPLING KIT).

NOTE:

LIFT ARM HYDRAULICS



LIFT ARM HYDRAULICS

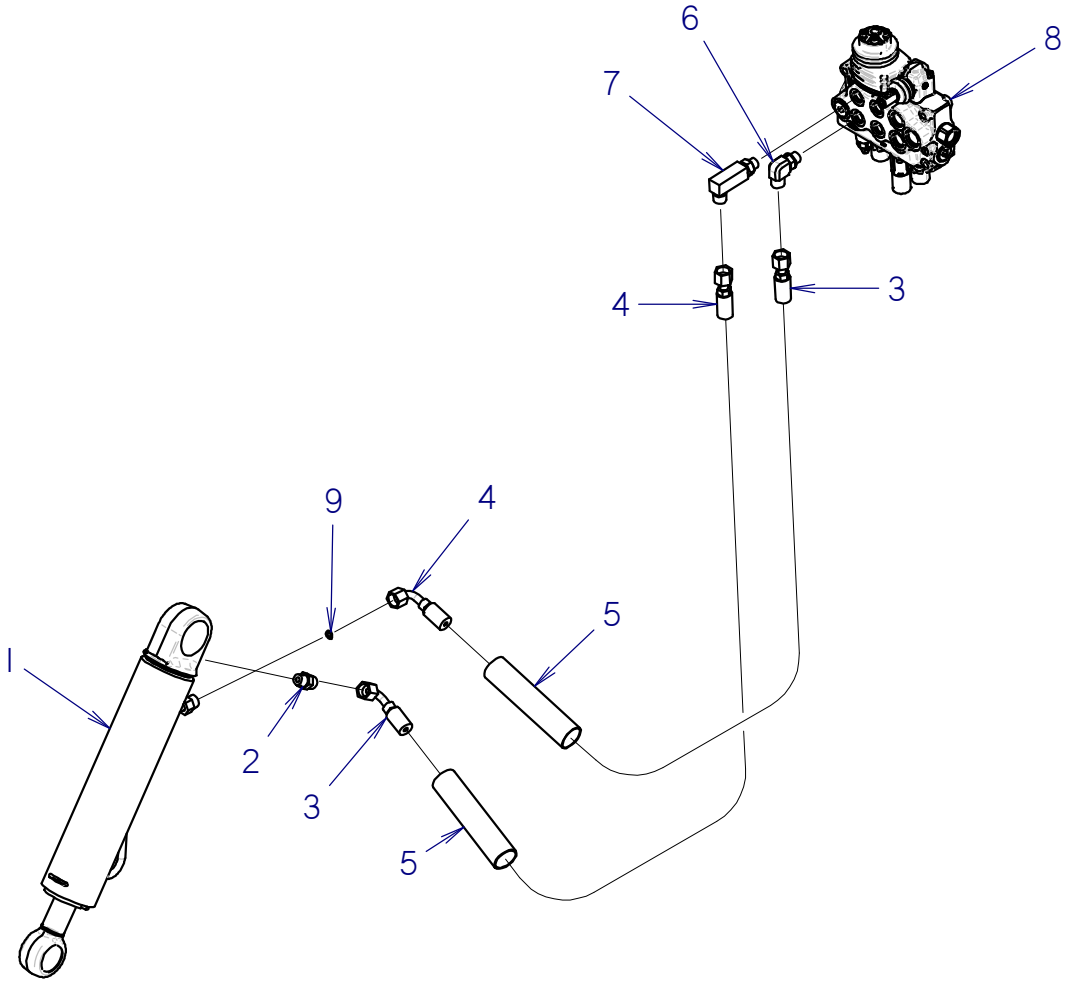
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-4131	1	VALVE SD5-3	
2	159-931	3	CONNECTOR (06S-06SF)	
3	150-4115	2	BRANCH TEE (06S-040-040)	
4	154-252	2	CONNECTOR (04S-04090)	
5	514-049	2	CONNECTOR (04S-06090)	
6	117-215	1	ABRASION SLEEVE (1.25" X 46")	
7	117-245	1	ABRASION SLEEVE (1.25" X 33")	
8	117-690	1	ABRASION SLEEVE (1.25" X 58")	
9	117-189	1	ABRASION SLEEVE (1.25" X 44")	
10	151-091	2	CYL (2.0 X 1.25 X 16.0)	
11	150-4036	2	HYDRAULIC LINE (1-06)	
12	154-693	1	HOSE (040FX-44"-3000)	
13	515-013	1	HOSE (040FX-42"-3000)	
14	149-915	1	HOSE (040FX-30"-3000 AR)	
15	154-692	1	HOSE (040FX-54"-3000)	
16	157-037	2	O-RING (011 D90)	
17	110-031	2	CABLE TIE (1/2") 20" LG	
18	105-1734	2	SADDLE CLAMP	
19	106-724	2	FLG SCREW (M10-1.50 X 25MM)	
20	110-332	2	BOLT-ON CLAMP (1-5/8")	

NOT SHOWN:

FOOTNOTES:

NOTE:

TILT CYLINDER HYDRAULICS



TILT CYLINDER HYDRAULICS

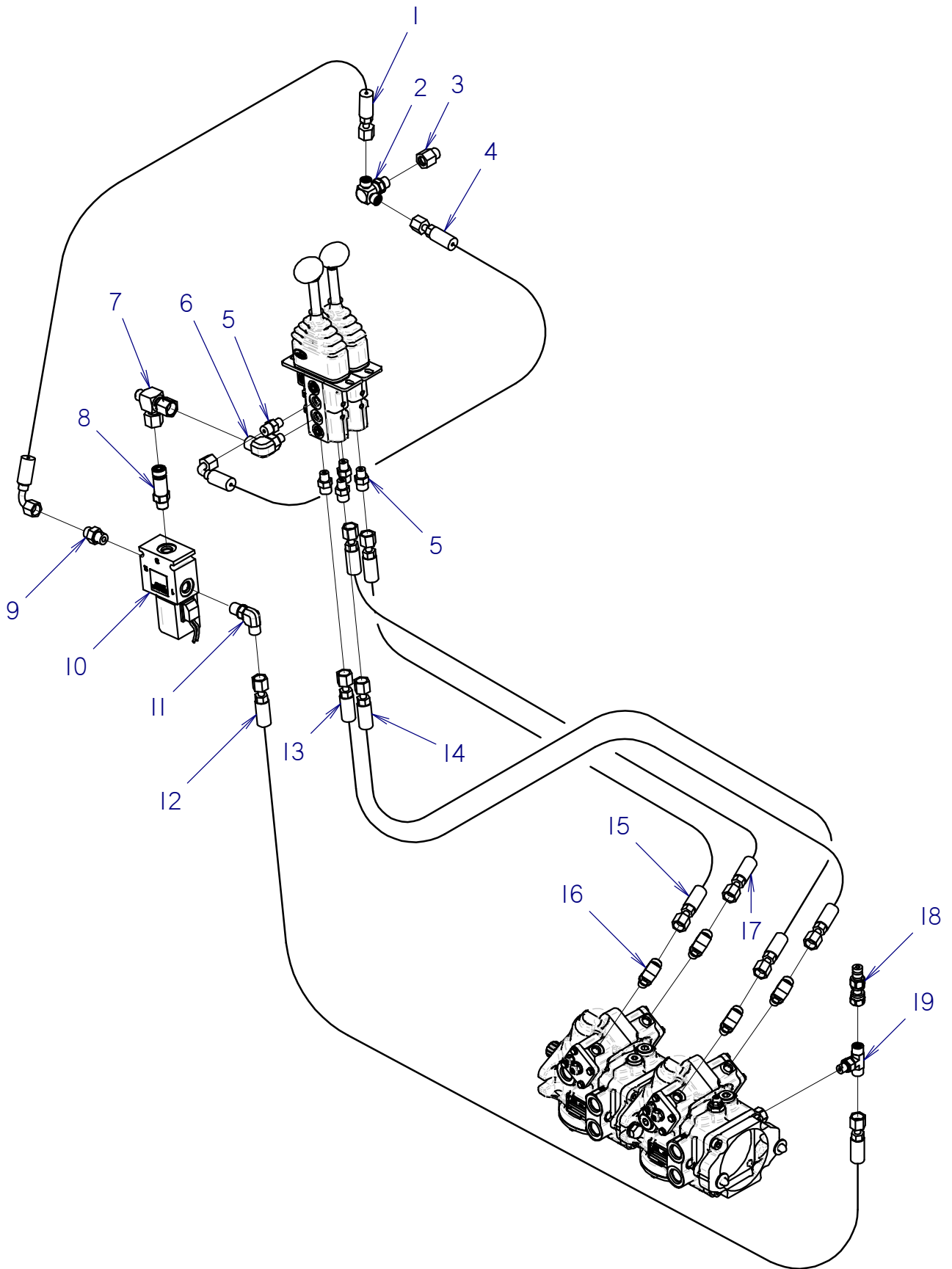
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-4129	1	CYL (2.5 X 1.25 X 10.0)	
2	154-221	1	CONNECTOR (06S-060)	
3	150-1195	1	HOSE (060FX90S-103"-3000)	
4	150-1195	1	HOSE (060FX90S-103"-3000)	
5	105-1123	2	ABRASION SLEEVE (1.25" X 106")	
6	154-342	1	CONNECTOR (06S-06090)	
7	154-471	1	CONNECTOR (06S-06090.LG)	
8	150-4131	1	VALVE SD5-3	
9	157-037	1	O-RING (O11 D90)	

NOT SHOWN:

FOOTNOTES:

NOTE:

PILOT CONTROL HYDRAULICS (DUAL)



PILOT CONTROL HYDRAULICS (DUAL)

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	515-065	1	HOSE (040FX90S-14"-3000)	
2	154-230	1	BRANCH TEE (06S-040-040)	
3	159-931	1	CONNECTOR (06S-06SF)	
4	154-715	1	HOSE (040FX90S-18"-3000)	
5	154-278	5	CONNECTOR (04S-040)	
6	514-049	1	CONNECTOR (04S-06090)	
7	157-264	1	TEE (040-060F-060F)	
8	156-174	1	CONNECTOR (06S-060 LG)	
9	154-220	1	CONNECTOR (040-06S)	
10	158-627	1	SOLENOID VALVE	
11	154-226	1	CONNECTOR (040-06S90)	
12	154-651	1	HOSE (040FX-66"-3000)	
13	515-054	1	HOSE (040FX-74"-3000)	
14	515-054	1	HOSE (040FX-74"-3000)	
15	515-054	1	HOSE (040FX-74"-3000)	
16	159-902	4	CONNECTOR (04S-04090,ORF)	
17	515-054	1	HOSE (040FX-74"-3000)	
18	159-156	1	QDC ADAPTER (02-040F)	
19	154-293	1	BRANCH TEE (04S-040-040)	

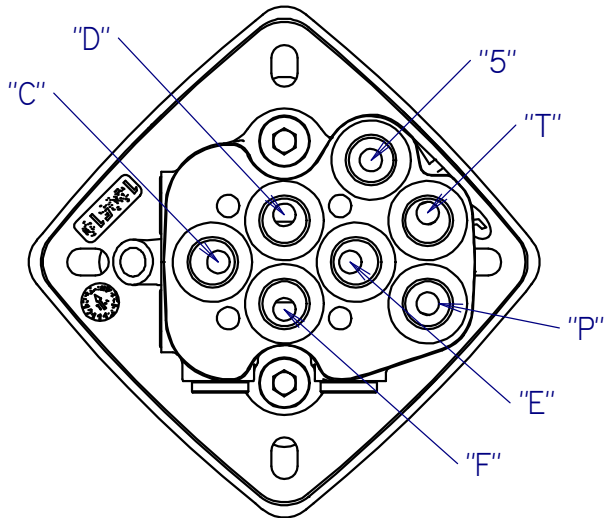
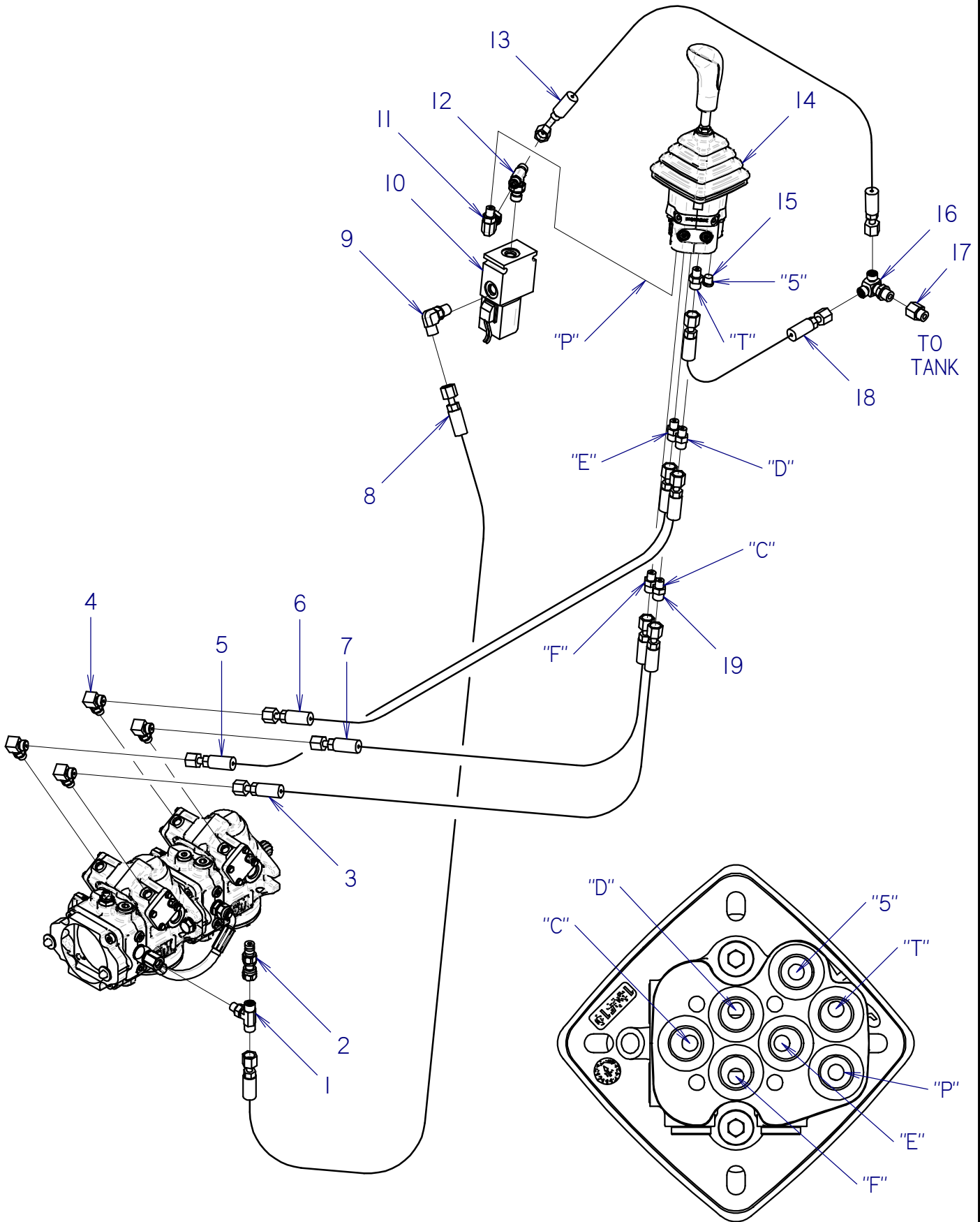
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FOOTNOTES:

NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF BOOK FOR REPLACEMENT O-RINGS.

PILOT CONTROL HYDRAULICS (SINGLE JOYSTICK)



PILOT CONTROL HYDRAULICS (SINGLE JOYSTICK)

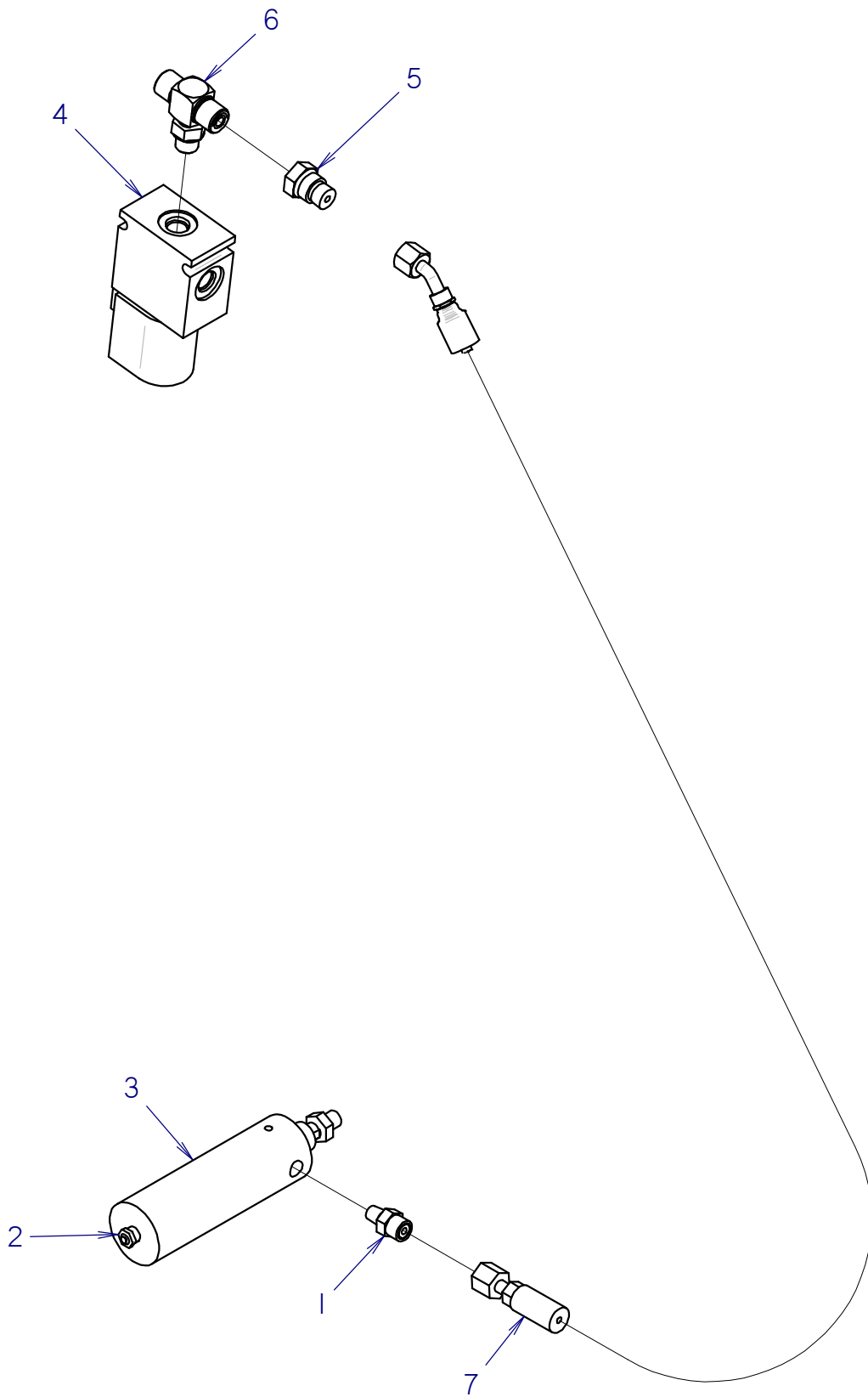
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	154-293	1	BRANCH TEE (04S-040-040)	
2	159-156	1	QDC ADAPTER (02-040F)	
3	515-054	1	HOSE (040FX-74"-3000)	
4	159-902	4	CONNECTOR (04S-04090,ORF)	
5	515-054	1	HOSE (040FX-74"-3000)	
6	515-054	1	HOSE (040FX-74"-3000)	
7	515-054	1	HOSE (040FX-74"-3000)	
8	515-054	1	HOSE (040FX-74"-3000)	
9	154-226	1	CONNECTOR (040-06S90)	
10	158-627	1	SOLENOID VALVE	
11	514-257	1	UNION (04S-040FX90)	
12	150-4449	1	BRANCH TEE (06S-040-040)	
13	515-065	1	HOSE (040FX90S-14"-3000)	
14	150-3654	1	PILOT JOYSTICK DUAL AXIS W/SHUTTLE BLK	
15	154-383	1	PLUG (04S)	
16	154-230	1	BRANCH TEE (06S-040-040)	
17	159-931	1	CONNECTOR (06S-06SF)	
18	154-825	1	HOSE (040FX-12"-3000)	
19	154-278	5	CONNECTOR (04S-040)	

NOT SHOWN:

FOOTNOTES:

NOTE:

PARK BRAKE HYDRAULICS



PARK BRAKE HYDRAULICS

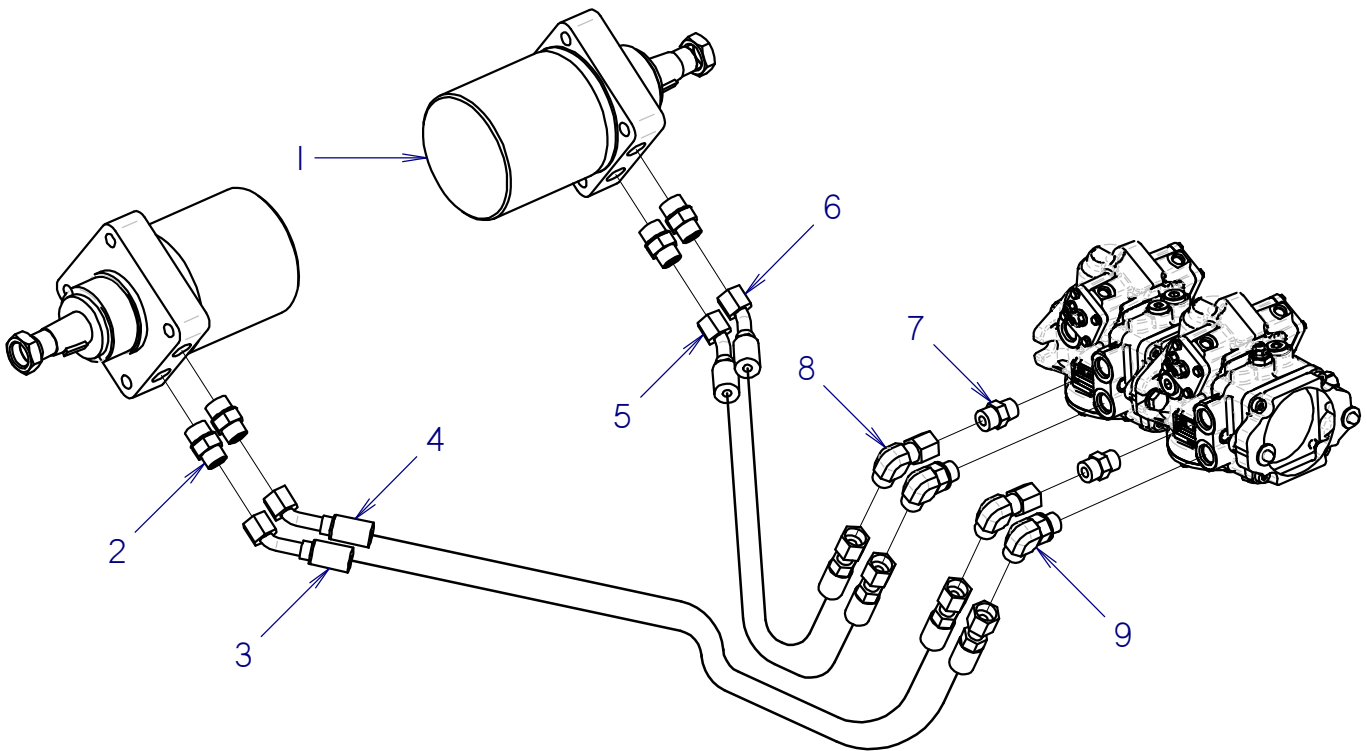
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	153-241	1	CONNECTOR (040-02N)	
2	155-912	1	AIR VENT (02N)	
3	151-097	1	CYL (1.5" X 0.43" X 2.500")	
4	158-627	1	SOLENOID VALVE	
5	154-373	1	REDUCER (040-060F)	
6	154-346	1	BRANCH TEE (06S-060-060)	
7	150-1422	1	HOSE (040FX45-44"-3000)	

NOT SHOWN:

FOOTNOTES:

NOTE:

GROUND DRIVE HYDRAULICS



GROUND DRIVE HYDRAULICS

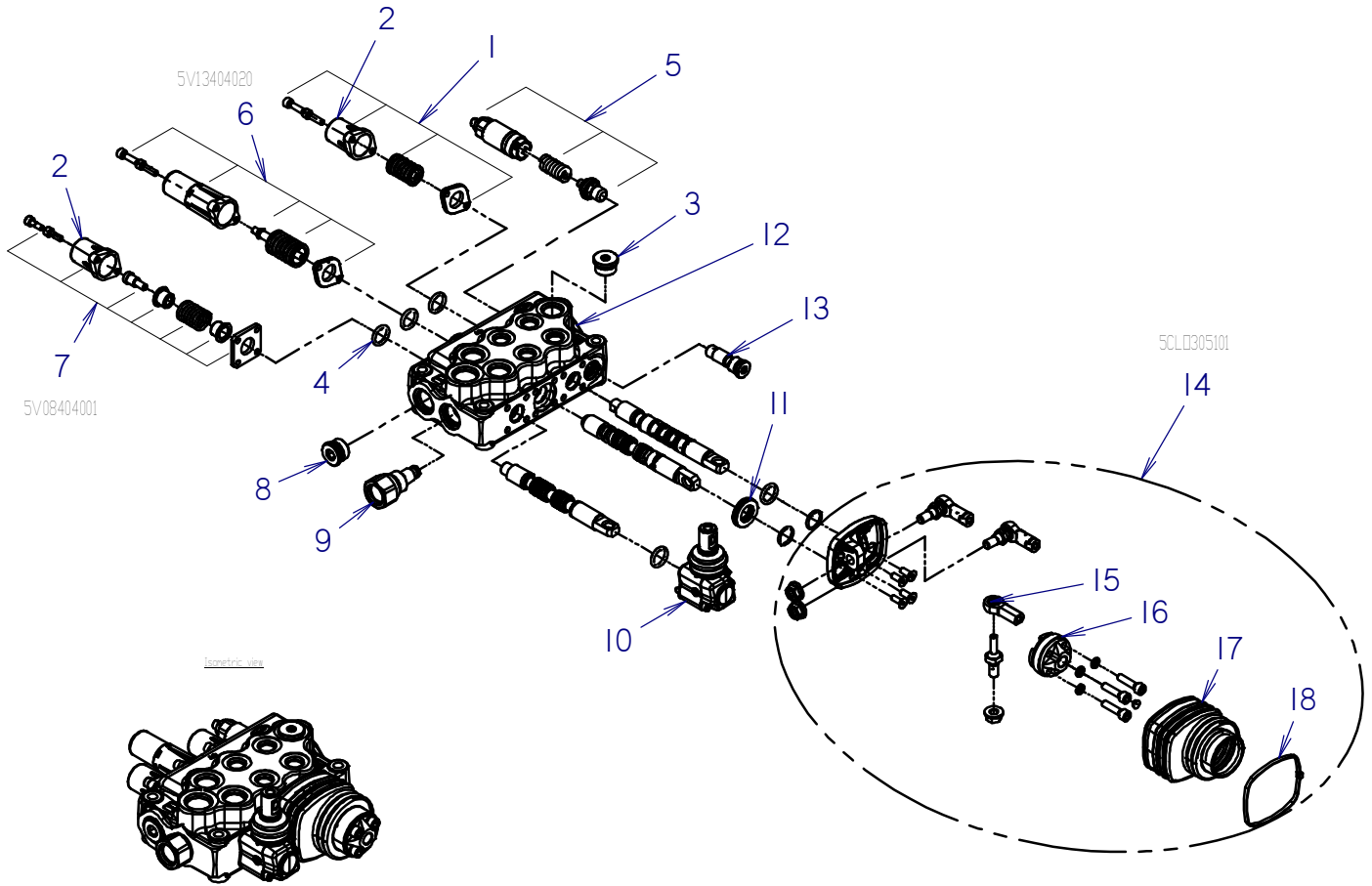
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	155-572	2	HYD MTR (GEROLER) 20.6 CID	
2	154-279	4	CONNECTOR (080-10S)	
3	154-943	1	HOSE (080FX45-30"-3000)	
4	154-943	1	HOSE (080FX45-30"-3000)	
5	150-4307	1	HOSE (080FX45-33"-3000)	
6	150-4307	1	HOSE (080FX45-33"-3000)	
7	154-233	2	CONNECTOR (08S-080)	
8	154-256	2	UNION (080-080FX90)	
9	154-235	2	CONNECTOR (08S-08090)	

NOT SHOWN:

FOOTNOTES:

NOTE:

HYDRAULIC CONTROL VALVE



HYDRAULIC CONTROL VALVE

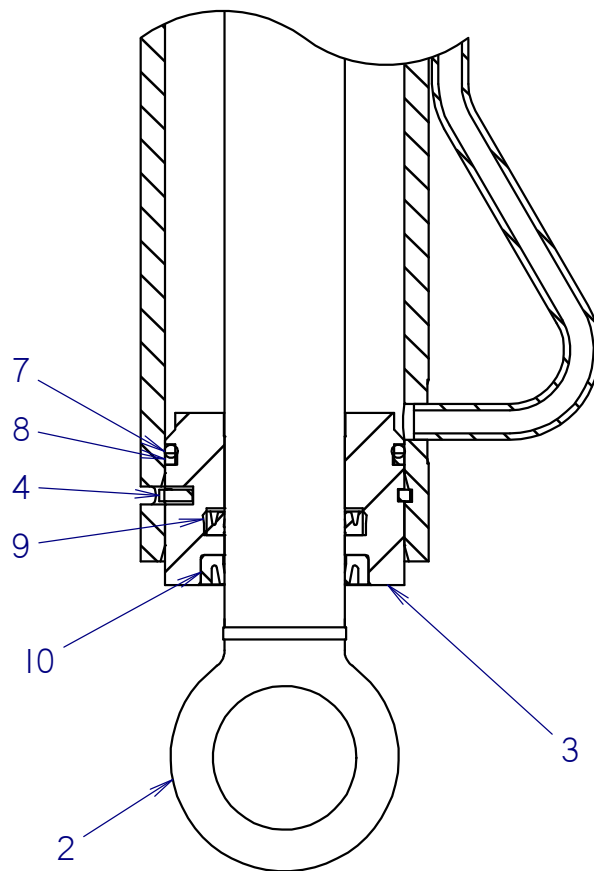
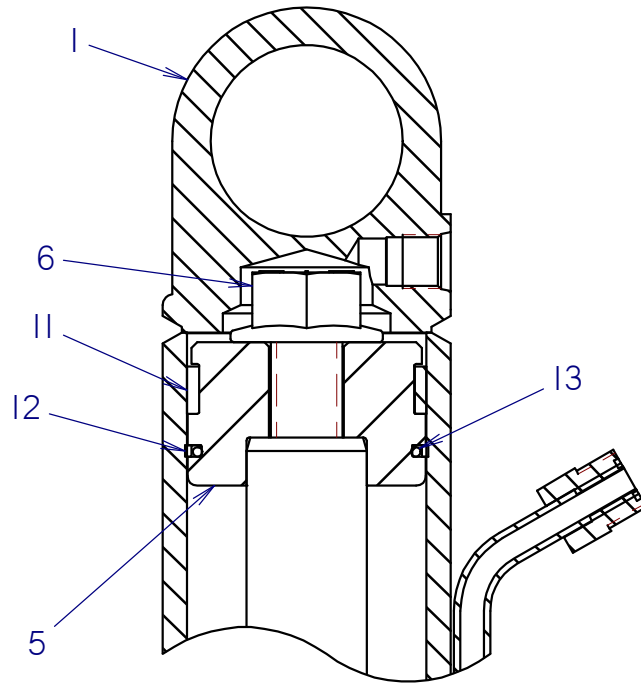
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	150-4131		VALVE SD5-3	
1.	500-1165		SPRING RETURN KIT (SD4)	
2.	500-731		SPOOL BONNET	
3.	500-1435		PLUG (SD5 THD)	
4.	157-218		O-RING	
5.	150-1799		RELIEF VALVE SD5 DIRECT ACTING	
6.				VENDER P/N: 5V13404020
7.				VENDER P/N: 5V08404001
8.	500-736		PLUG (SD5 THD)	
9.	500-1170		LP SLEEVE (SD5-SAE8)	
10.	499-143		LEVER	
11.	500-1437		RING (5PY)	
12.	500-1436		VALVE BODY	INCLUDES REF NO. 13
13.	149-664		CHECK VALVE	
14.			JOYSTICK LEVER ASSEMBLY	INCLUDES REF NO.S 15 THRU 18, VENDER P/N: 5CLO305101
15.	499-138		ROD END	
16.	499-134		ARTICULATION HOLDER	
17.	499-135		RUBBER BELLOW	
18.	499-137		BELLOW CAP	

NOT SHOWN:

FOOTNOTES:

NOTE:

HYDRAULIC CYL (2.5 X 1.25 X 10.0)



HYDRAULIC CYL (2.5 X 1.25 X 10.0)

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	150-4129		CYL (2.5 X 1.25 X 10.0)	
1	150-4128	1	CYLINDER BARREL (2.5 X 10.0)	
2	300-2736	1	CYLINDER ROD (1.25 X 10.0)	
3	150-773	1	CYLINDER HEAD (2.5 X 1.25)	
4	150-779	1	LOCK RING (2.5)	
5	300-2741	1	CYLINDER PISTON (2.5 X 1.25)	
6	106-098	1	FLG BOLT (3/4-NC X 2", GD8)	SEE FOOTNOTE 2
7	500-031	1	O-RING (228 D90)	
8	157-021	1	BACKUP RING (228 D90)	
9	157-541	1	U-SEAL (1.250")	
10	157-538	1	WIPER SEAL (1.250")	
11	125-775	1	WEAR RING	
12	157-535	1	BACKUP RING (139 D90)	
13	157-019	1	O-RING (139 D90)	

NOT SHOWN:

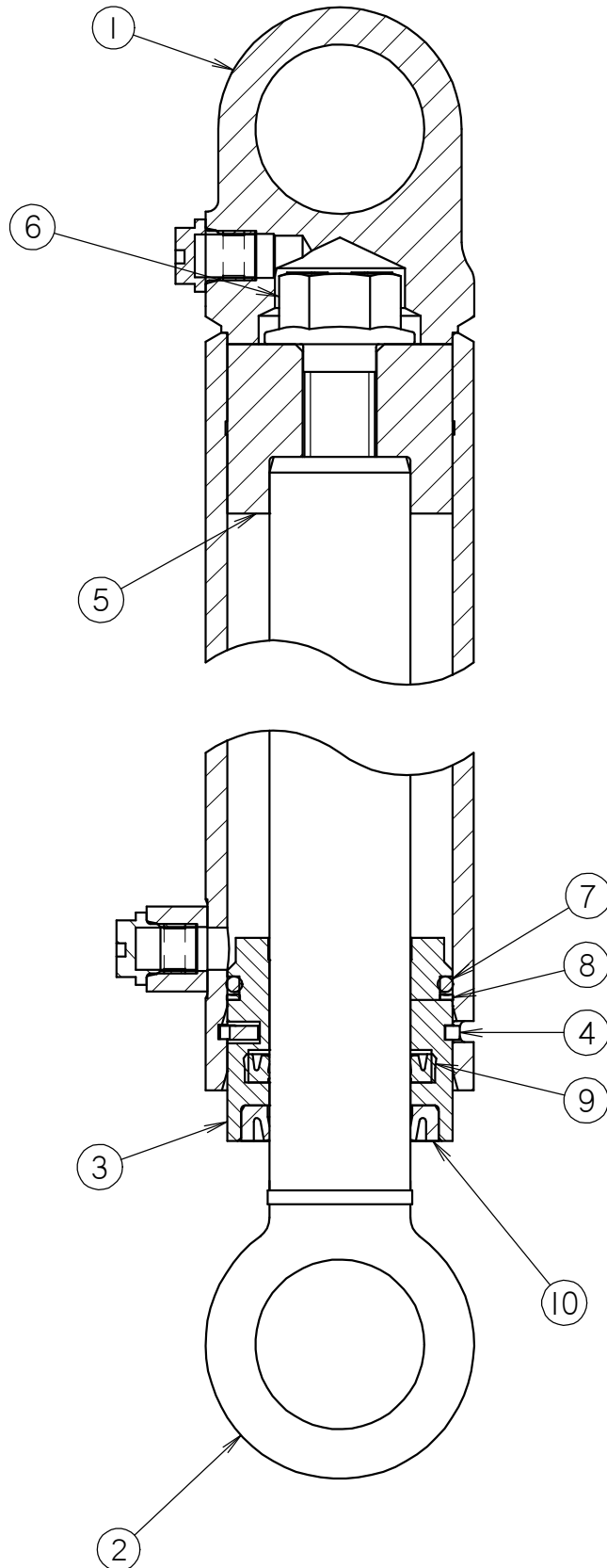
259-100 U-SEAL INSTALLER (1" - 1.499")
 259-236 WIPER INSTALLER (1.25")
 259-242 PISTON SEAL INSTALLER (2.5")
 259-243 PISTON INSTALLER (2.5")
 259-188 CYL HEAD SPANNER - TWO PIN

FOOTNOTES:

1. SEAL REPAIR KIT P/N: 190-2326
2. APPLY LOCTITE 277 OR EQUIVALENT. TORQUE TO 290-325 FT-LBS

NOTE:

HYDRAULIC CYLINDERS (2.0" X 1.25")



HYDRAULIC CYLINDERS (2.0" X 1.25")

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	149-669	-	CYL (2.0 X 1.25 X 2.0)	SEE FOOTNOTES 1 & 2
1	152-029	1	CYLINDER BARREL (2.0 X 2.0)	
2	153-012	1	CYLINDER ROD (1.25 X 2.0)	
	149-670	-	CYL (2.0 X 1.25 X 2.5)	SEE FOOTNOTES 1 & 2
1	149-761	1	CYLINDER BARREL (2.0 X 2.5)	
2	153-005	1	CYLINDER ROD (1.25 X 2.5)	
	149-671	-	CYL (2.0 X 1.25 X 3.0)	SEE FOOTNOTES 1 & 2
1	150-282	1	CYLINDER BARREL (2.0 X 3.0)	
2	150-435	1	CYLINDER ROD (1.25 X 3.0)	
	149-672	-	CYL (2.0 X 1.25 X 4.0)	SEE FOOTNOTES 1 & 2
1	150-290	1	CYLINDER BARREL (2.0 X 4.0)	
2	150-415	1	CYLINDER ROD (1.25 X 4.0)	
	151-060	-	CYL (2.0 X 1.25 X 5.0)	SEE FOOTNOTES 1 & 2
1	150-291	1	CYLINDER BARREL (2.0 X 5.0)	
2	150-423	1	CYLINDER ROD (1.25 X 5.0)	
	149-673	-	CYL (2.0 X 1.25 X 6.0)	SEE FOOTNOTES 1 & 2
1	150-294	1	CYLINDER BARREL (2.0 X 6.0)	
2	150-438	1	CYLINDER ROD (1.25 X 6.0)	
	151-057	-	CYL (2.0 X 1.25 X 8.0)	SEE FOOTNOTES 1 & 2
1	150-285	1	CYLINDER BARREL (2.0 X 8.0)	
2	150-427	1	CYLINDER ROD (1.25 X 8.0)	
	149-674	-	CYL (2.0 X 1.25 X 10.0)	SEE FOOTNOTES 1 & 2
1	152-017	1	CYLINDER BARREL (2.0 X 10.0)	
2	149-730	1	CYLINDER ROD (1.25 X 10.0)	
	151-032	-	CYL (2.0 X 1.25 X 12.0)	SEE FOOTNOTES 1 & 2
1	150-286	1	CYLINDER BARREL (2.0 X 12.0)	
2	150-418	1	CYLINDER ROD (1.25 X 12.0)	
	151-091	-	CYL (2.0 X 1.25 X 16.0)	SEE FOOTNOTES 1 & 2
1	152-027	1	CYLINDER BARREL (2.0 X 16.0)	
2	150-448	1	CYLINDER ROD (1.25 X 16.0)	
	151-065	-	CYL (2.0 X 1.25 X 20.0)	SEE FOOTNOTES 1 & 2
1	152-011	1	CYLINDER BARREL (2.0 X 20.0)	
2	150-439	1	CYLINDER ROD (1.25 X 20.0)	
3	150-770	1	CYLINDER HEAD (2.0 X 1.25)	
4	150-778	1	LOCK RING (2.0)	
5	150-771	1	CYLINDER PISTON (2.0 X 1.25)	INCL MOLDED-ON WEAR RING
6	106-097	1	FLG BOLT (5/8-NC X 1-3/4",GD8)	SEE FOOTNOTE 3
7	157-022	1	O-RING (224 D90)	
8	155-732	1	BACKUP RING (224 D90)	
9	157-541	1	U-SEAL (1.250")	
10	157-538	1	WIPER SEAL (1.250")	

NOT SHOWN:

259-100	U-SEAL INSTALLER (1" - 1.499")
259-236	WIPER INSTALLER (1.25")
259-239	WIPER/SEAL INSTALLER (2")
259-241	PISTON INSTALLER (2")
259-188	CYL HEAD SPANNER - TWO PIN

FOOTNOTES:

- REF. #1 & #2 ARE SPECIFIC TO EACH CYLINDER, REF. #3 THRU #10 ARE COMMON FOR ALL THE ABOVE LISTED CYLINDERS.
- SEAL KIT P/N: 190-169
- APPLY LOCTITE 277 OR EQUIVALENT, TORQUE TO 180-200 FT-LBS

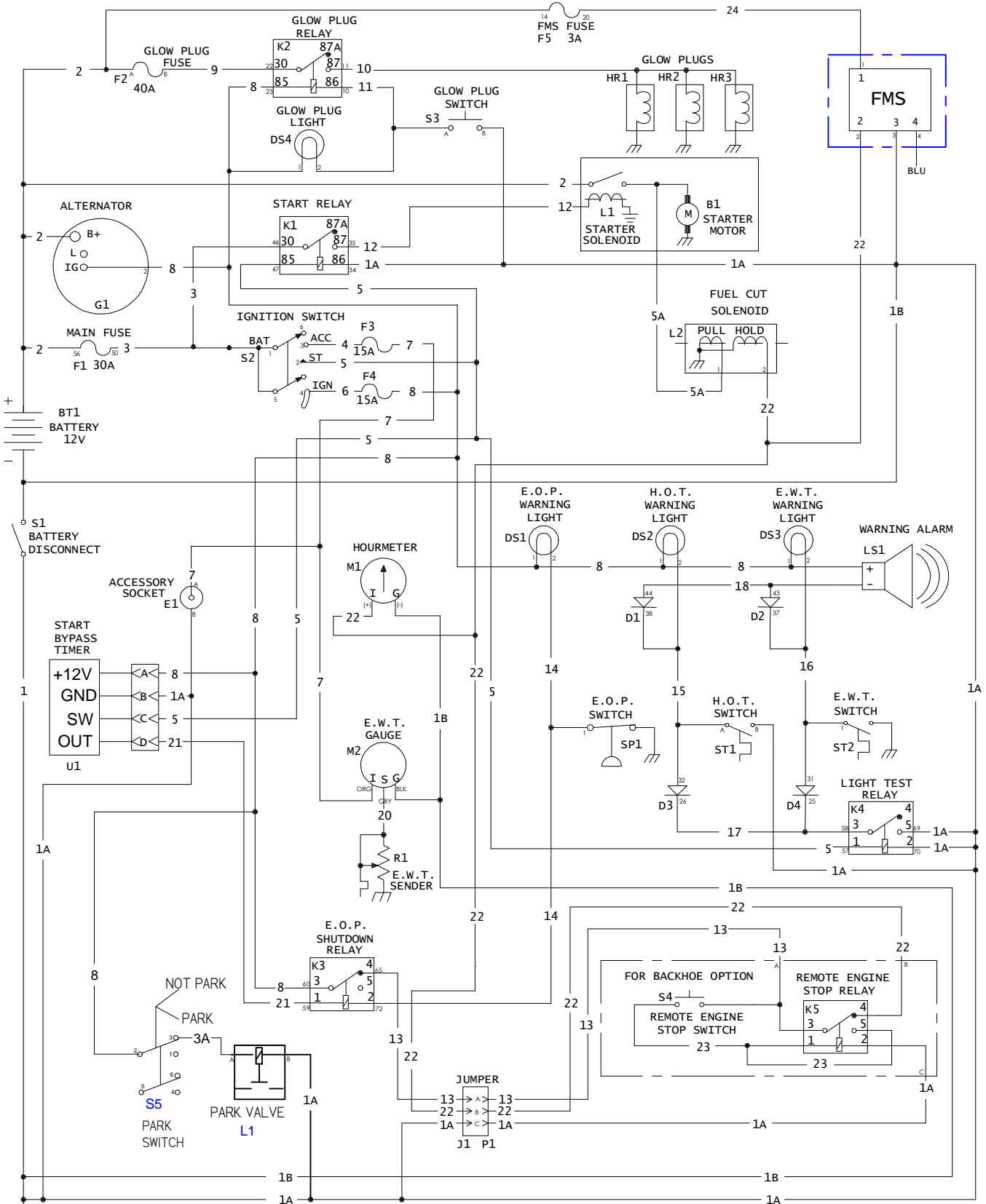
NOTE:

ELECTRICAL

ELECTRICAL SCHEMATIC

SK752 (DIESEL)

SK755 (DIESEL) BEGINS WITH Sn:CMWSK755HG0001096



ELECTRICAL SCHEMATIC

SK752 (DIESEL)

SK755 (DIESEL) BEGINS WITH Sn:CMWSK755HG0001096

Component Descriptions

Ref. #	Part #	Component	Notes
B1	194-873	Starter	12volt 1.4kw with lead wire
BT1	215-1165	Battery	12volt, 800CCA
D1	211-299	Diode	ATC mini 1 amp
D2	211-299	Diode	ATC mini 1 amp
D3	211-299	Diode	ATC mini 1 amp
D4	211-299	Diode	ATC mini 1 amp
DS1	217-020	Engine oil pressure light	217-074 lens reflector, ins.# 217-021
DS2	217-020	Hydraulic oil temperature light	217-074 lens reflector, ins.# 217-027
DS3	217-020	Engine water temperature light	217-074 lens reflector, ins.# 217-051
DS4	217-020	Glow plug light	217-074 lens reflector, ins.# 213-277 (Diesel engine only)
E1	214-301	Accessory socket	12V 5A
F1	211-295	Main fuse	30A Mini Fuse
F2	211-303	Glow plug fuse	40A ATC (Diesel engine only)
F3	211-292	Accessory fuse	15A Mini Fuse
F4	211-292	Ignition fuse	15A Mini Fuse
F5	211-289	FMS fuse	3A Mini Fuse
G1	213-365	Alternator	12V 40A (built in regulator) Side post Ends w/SN:
G1	195-1265	Alternator	12V 40A (built in regulator) Rear post Begins w/SN:
HR1	194-383	Glow plug (See notes)	(Diesel engine only)
HR2	194-383	Glow plug (See notes)	(Diesel engine only)
HR3	194-383	Glow plug (See notes)	(Diesel engine only)
J1		Jumper plug	For remote engine kill & auxillary power (optional)
K1	211-298	Start relay	G8W-1C7T-R-DC12
K2	211-298	Glow plug relay (See notes)	G8W-1C7T-R-DC12
K3	211-297	EOP shutdown relay	G8VL-1A4T-R-L 12VDC
K4	211-297	Light test relay	G8VL-1A4T-R-L 12VDC
K5	211-297	Remote engine kill relay	G8VL-1A4T-R-L 12VDC (optional)
L1	See notes	Starter solenoid	Starter component
L2	217-953	Fuel stop solenoid	Engine component (energize to run)
L3	158-627	Solenoid Valve	Park brake
LS1	306-603	Audio warning alarm	
M1	215-128	Hour meter	
M2	217-512	Engine water temperature gauge	Datcon
P1		Jumper plug	For remote engine kill & auxillary power (optional)
R1	217-565	Engine water temperature sender	Datcon 0--280* grounds through body
S1	217-833	Battery disconnect	EU-Standard, U.S. Option
S2	215-2013	Ignition switch	Keys provided. (P/N
S3	306-607	Glow plug switch Cover# 306-608	Momentary push button (Diesel engine only)
S4	217-206	Engine stop switch	For remote engine kill from backhoe (options)
S5	215-1597	Park Brake Switch	DPST 12V,20A
SP1	217-952	Engine oil pressure switch	Normally closed, opens 7PSI grounds through body
ST1	214-854	Hydraulic oil temperature switch	Normally open, closes @ 210°F
ST2	213-338	Engine water temperature switch	Normally open, closes @ 230°F
U1	220-2210	Start bypass timer	Drops power for 5 seconds after release of key
U2	190-1798	Fleet Management System	Option

ELECTRICAL SCHEMATIC

SK752 (DIESEL)

SK755 (DIESEL) BEGINS WITH Sn:CMWSK755HG0001096

Circuit Descriptions		
Circuit	Wire Color	Function
1	blk	High current ground
1A	blk/red	Medium current ground
3A	red/blu	Park Brake Power
1B	blk/blu	Low current ground
2	red	Battery circuit
3	red	Fused battery circuit
4	org/brn	Accessory circuit
5	wht/blk	Start circuit
5A	wht	Starter solenoid to pull circuit of fuel solenoid
6	org/blu	Ignition circuit
7	org	Fused accessory circuit
8	org/grn	Fused ignition circuit
9	red/blu	Glow plug fuse to glow plug relay
10	pur	Glow plug relay to glow plug bus bar
11	blk/yel	Glow plug switch to glow plug relay
12	pur	Start relay to starter solenoid
13	org/wht	EOP shutdown relay to jumper plug, E-stop switch, & E-stop relay
14	wht/blu	EOP switch to EOP warning light & EOP shutdown relay
15	gra/blk	HOT switch to HOT warning light, D1 cathode, & D3 anode
16	wht/grn	EWT switch to EWT warning light, D2 cathode, & D4 anode
17	gra/yel	Light test relay to diode #'s D3 & D4 cathodes
18	blu/yel	D1 & D2 anodes to warning alarm ground circuit
19		Not used
20	grn	EWT sending unit to EWT gauge
21	blu/wht	Start bypass timer to EOP shutdown relay
22	org/gra	Jumper plug to hour meter & hold circuit of fuel solenoid
23	yel/red	Engine stop switch to engine stop relay (backhoe option)
24	red/wht	FMS Power

ELECTRICAL SCHEMATIC

SK752 (DIESEL)

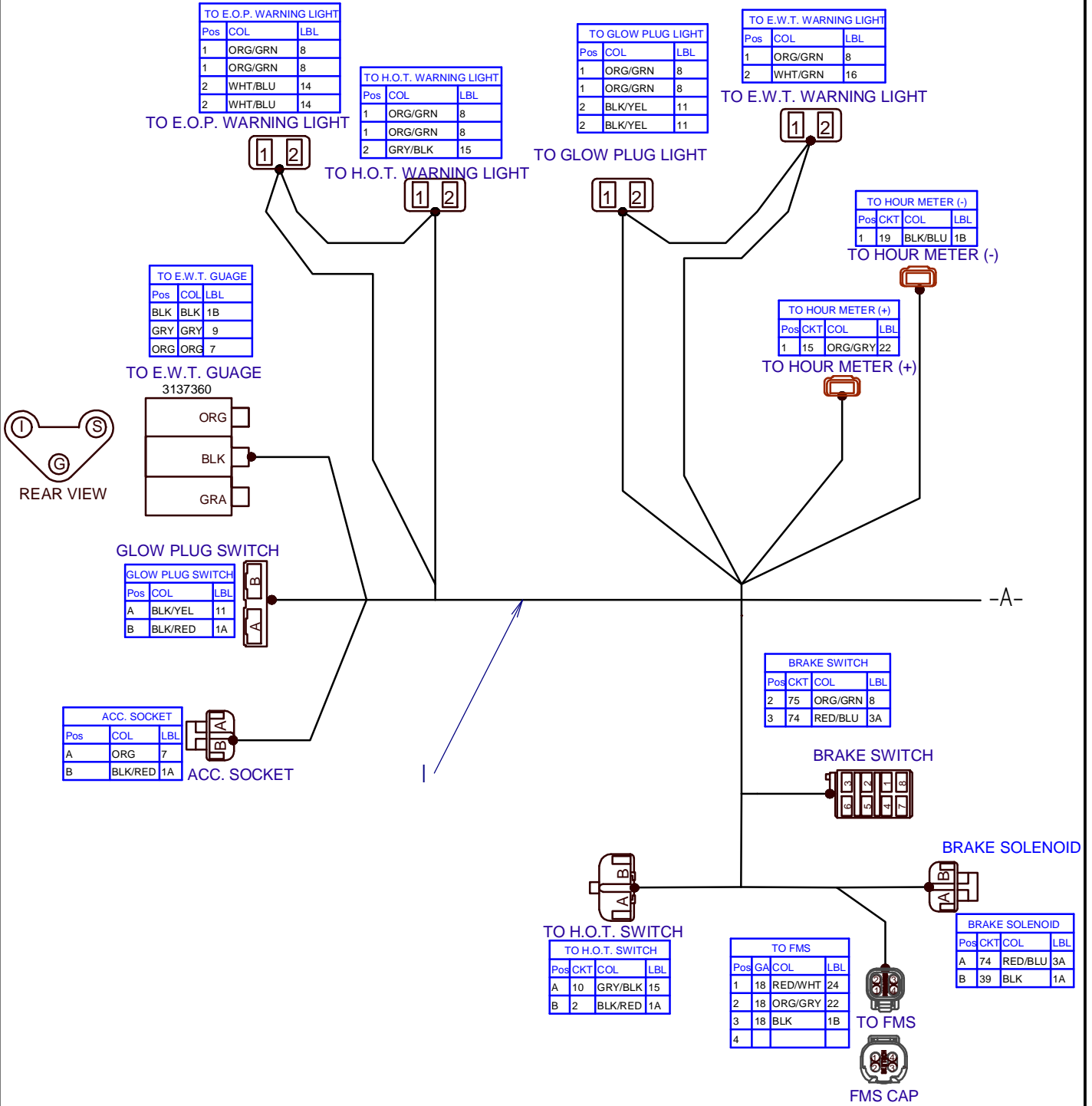
SK755 (DIESEL) BEGINS WITH Sn:CMWSK755HG0001096

Wire Harness			
Ref. #	Part #	Quantity	Description
1	215-0049	1	SK752 Frame Harness
1	215-0049	1	SK755 Starts w/Sn:
2	215-0067	1	Pos. Battery Cable (1 ga. X 24" , Red)
3	215-2093	1	Neg. Battery Cable (1 ga. X 24" , Black)
4	215-1626	1	Ground Strap Braided 13.5"

ELECTRICAL DIAGRAM

ENGINE/FRAME HARNESS

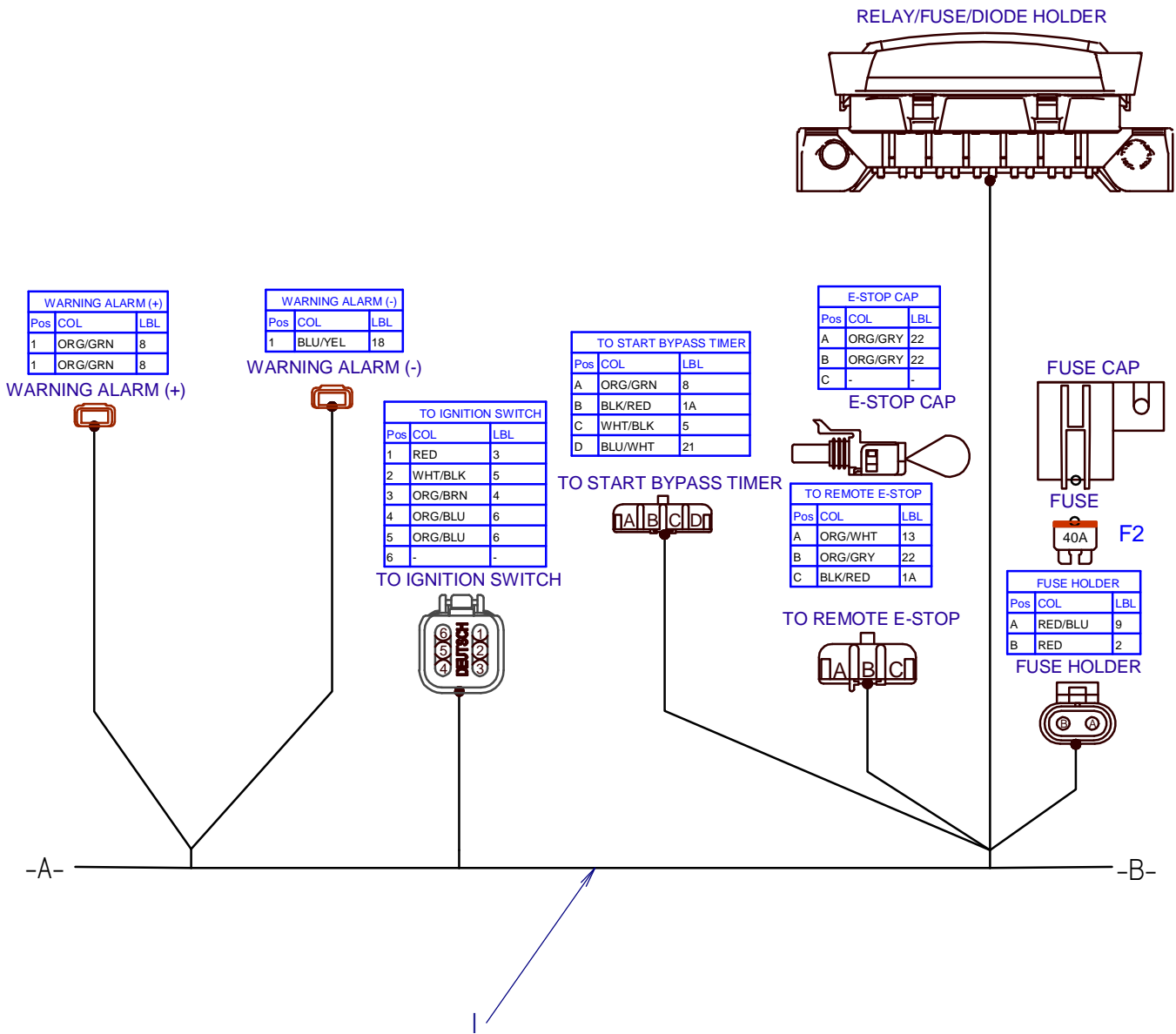
SK752



ELECTRICAL DIAGRAM

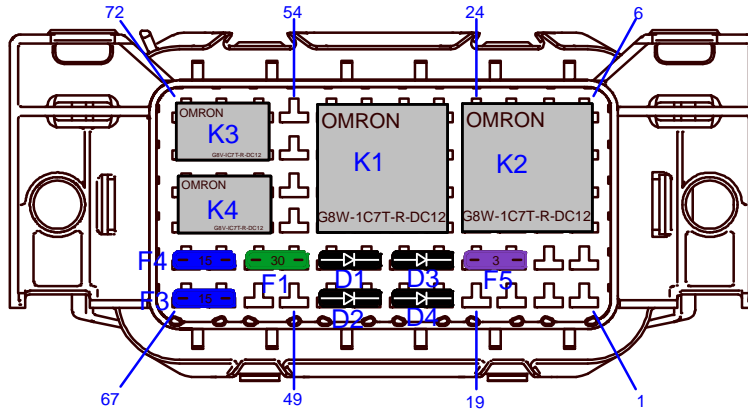
ENGINE/FRAME HARESS

SK752



ELECTRICAL DIAGRAM ENGINE/FRAME HARNESS SK752

- FUSES & RELAYS
- K1-START RELAY
- K2-GLOW PLUG RELAY
- K3-E.O.P. SHUTDOWN RELAY
- K4-LIGHT TEST RELAY
- F1-MAIN FUSE-30A
- F2-GLOW PLUG FUSE-40A
- F3-ACCY FUSE-15A
- F4-IGN FUSE-15A
- F5- FMS FUSE-3A
- D1-D4- 1A DIODES



RELAY/FUSE/DIODE HOLDER			
Pos	COL	Type	LBL
1		CavPlug	-
2		CavPlug	-
3		CavPlug	-
4		CavPlug	-
5		CavPlug	-
6		CavPlug	-
7		CavPlug	-
8		CavPlug	-
9		CavPlug	-
10	BLK/YEL		11
11	PUR		10
12		CavPlug	-
13		CavPlug	-
14	RED		2
15		CavPlug	-
16		CavPlug	-
17		CavPlug	-
18		CavPlug	-
19		CavPlug	-
20	RED/WHT		24
21		CavPlug	-
22	RED/BLU		9
23	ORG/GRN		8
24		CavPlug	-
25	GRY/YEL		17

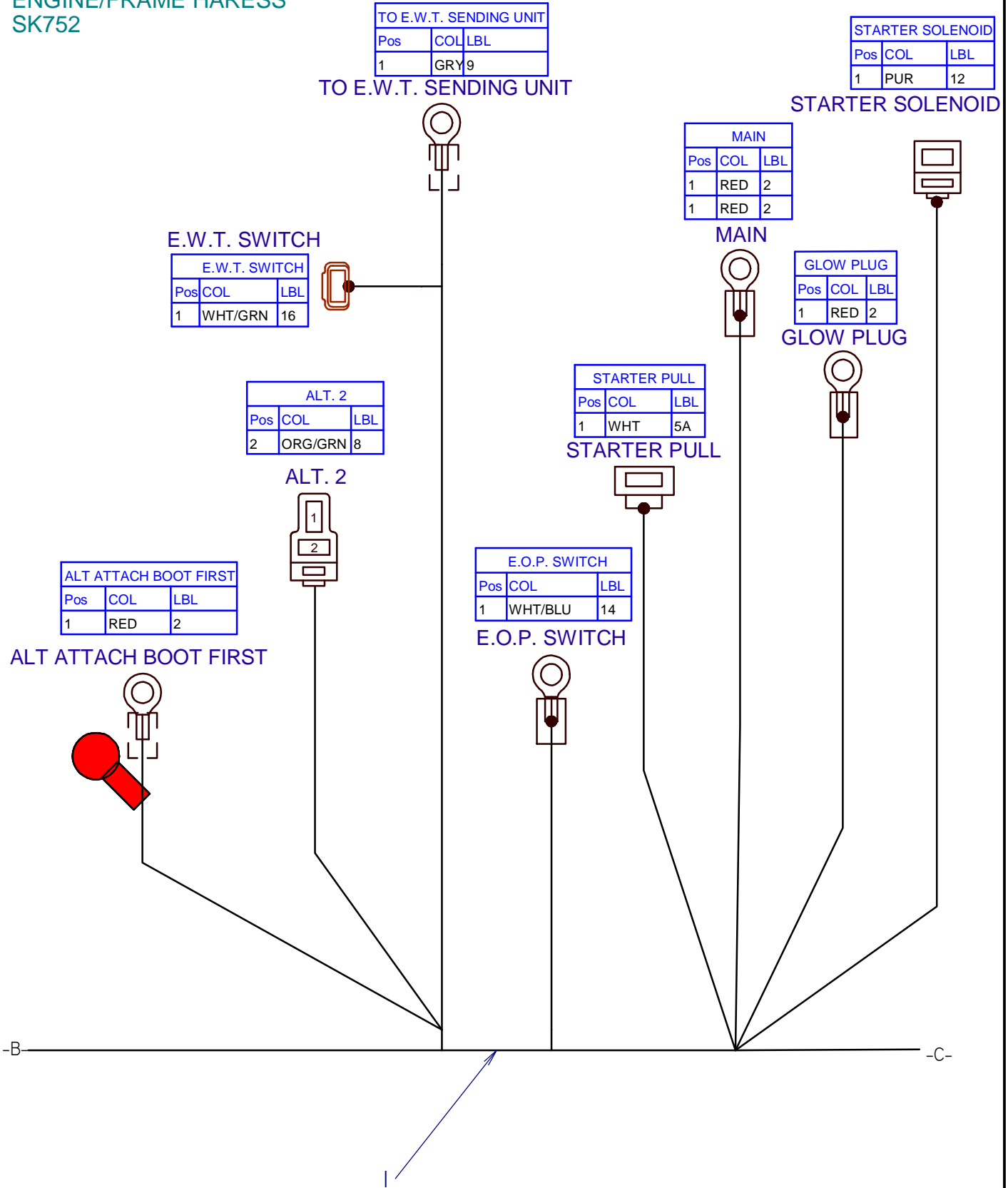
RELAY/FUSE/DIODE HOLDER			
Pos	COL	Type	LBL
26	GRY/YEL		17
27		CavPlug	-
28		CavPlug	-
29		CavPlug	-
30		CavPlug	-
31	WHT/GRN		16
32	GRY/BLK		15
33		CavPlug	-
34	BLK/RED		1A
35	PUR		12
36		CavPlug	-
37	WHT/GRN		16
38	GRY/BLK		15
39		CavPlug	-
40		CavPlug	-
41		CavPlug	-
42		CavPlug	-
43	BLU/YEL		18
44	BLU/YEL		18
45		CavPlug	-
46	RED		3
47	WHT/BLK		5
48		CavPlug	-
49		CavPlug	-
50	RED		3

RELAY/FUSE/DIODE HOLDER			
Pos	COL	Type	LBL
51		CavPlug	-
52		CavPlug	-
53		CavPlug	-
54		CavPlug	-
55		CavPlug	-
56	RED		2
57	WHT/BLK		5
58	GRY/YEL		17
59	BLU/WHT		21
60	ORG/GRN		8
61	ORG		7
62	ORG/GRN		8
63		CavPlug	-
64		CavPlug	-
65	ORG/WHT		13
66		CavPlug	-
67	ORG/BRN		4
68	ORG/BLU		6
69	BLK/RED		1A
70	BLK/RED		1A
71		CavPlug	-
72	WHT/BLU		14

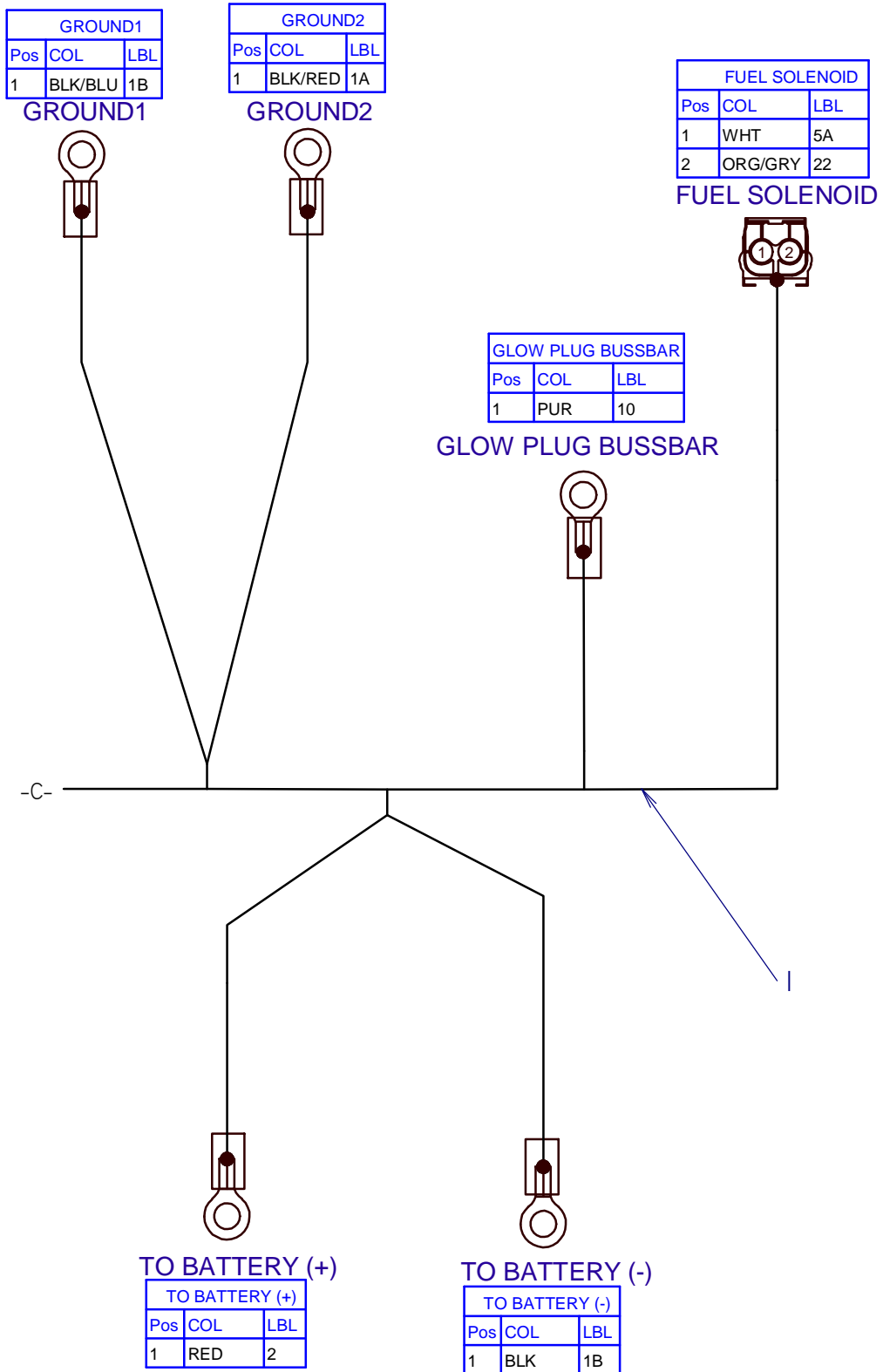
ELECTRICAL DIAGRAM

ENGINE/FRAME HARESS

SK752



ELECTRICAL DIAGRAM
ENGINE/FRAME HARNESS
SK752



ELECTRICAL DIAGRAM ENGINE/FRAME HARESS SK752

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	215-0049	1	FRAME HARNESS	

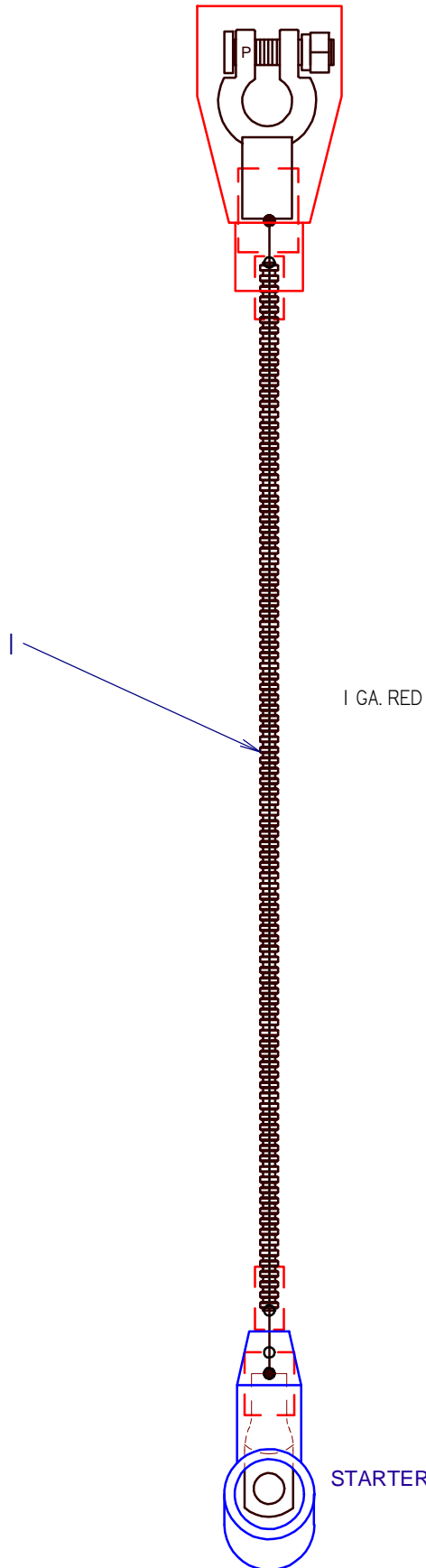
NOT SHOWN:

FOOTNOTES:

NOTE:

ELECTRICAL DIAGRAM
SK752
POS. BATTERY CABLE-24"

POSITIVE (+) SIDE POST MOUNT



ELECTRICAL DIAGRAM
SK752
POS. BATTERY CABLE-24"

REF	PART				
NO.	NUMBER	QTY	DESCRIPTION		REMARKS
1	215-0067	1	POS. BATTERY CABLE 1 GA. X 24" , (RED)		

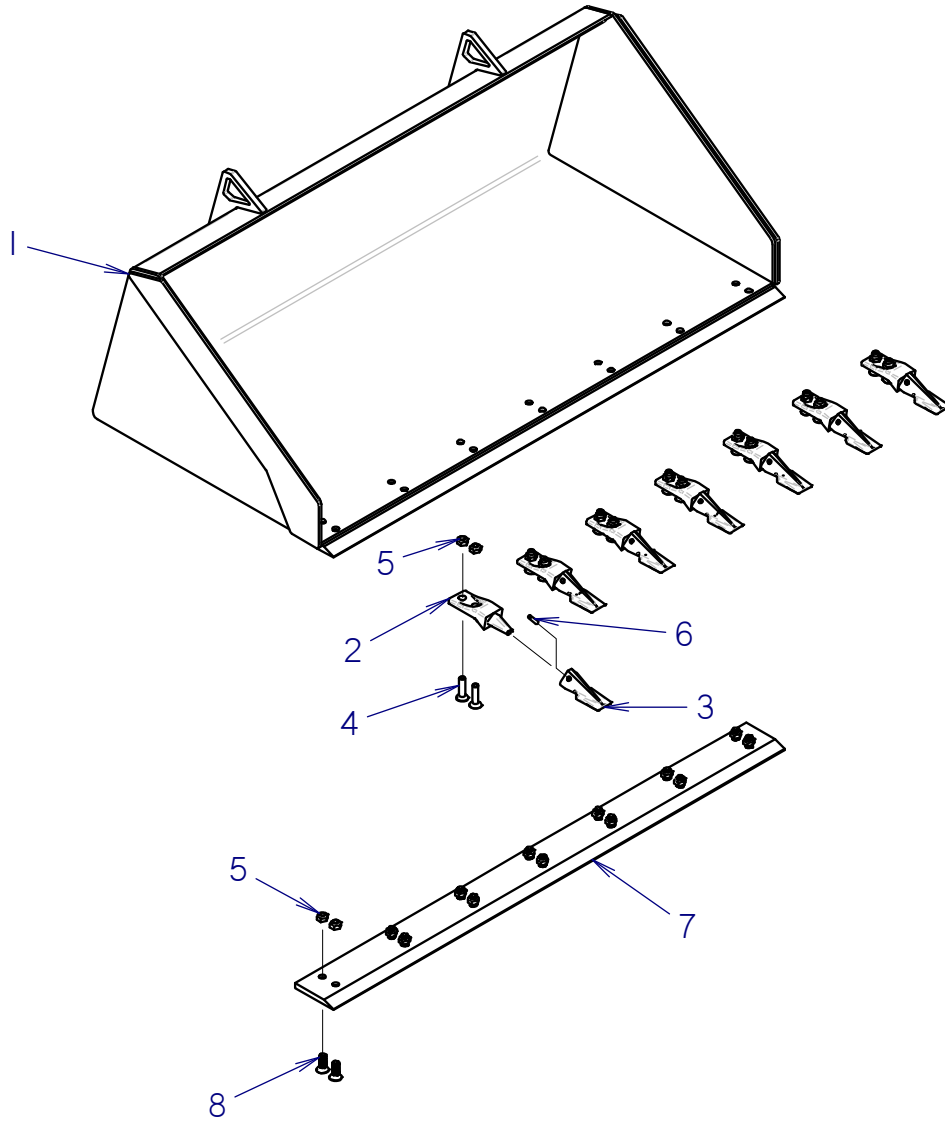
NOT SHOWN:

FOOTNOTES:

NOTE:

ACCESSORIES

4' BUCKET



4' BUCKET

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	302-3201	1	48" BUCKET (1/4 CU YD)	
2	300-7090	7	BOLT-ON TOOTH ADAPTER	INCLUDED IN 190-2086
3	300-7091	7	DUAL PURPOSE TOOTH	INCLUDED IN 190-2086
4	106-548	14	SCREW (M12-1.75X40MM, CSK)	INCLUDED IN 190-2086
5	106-685	28	LOCKNUT(M12-1.75,PRV TRQ,10.9)	INCLUDED IN 190-2086 AND 190-2087, QTY OF 14 PER KIT
6	105-1283	7	COIL PIN	INCLUDED IN 190-2086
7	302-3197	1	CUTTING EDGE	INCLUDED IN 190-2087
8	105-2250	14	SCREW (M12-1.75 X 35MM, CSK)	INCLUDED IN 190-2087

NOT SHOWN:

FOOTNOTES:

NOTE:

MISCELLANEOUS

SAE Bolt and Nut Torque Value Chart

Grade 5: UNC or UNF Thread

Size	Hex nut, or bolt tapped into hex nut, or d&t hole		Hex top deformed locknut		Flange nut, locknut, or bolt tapped into flange nut or d&t* hole	
	ft• lb	N• m	ft• lb	N• m	ft• lb	N• m
1/4	12	16	8	11	20	27
5/16	25	34	15	20	45	60
3/8	40	54	25	34	75	100
7/16	65	90	40	55	125	170
1/2	100	135	60	80	190	260
9/16	150	200	90	125	270	370
5/8	200	270	120	165	370	500
3/4	350	475	210	285	650	880
7/8	560	760	340	460	1250	1425
1	840	1140	500	680	1580	2145
1-1/8	1030	1400	320	840	1950	3645
1-1/4	1460	1980	880	1195	2760	3475

Grade 8: UNC or UNF Thread

Size	Hex nut, or bolt tapped into hex nut, or d&t hole		Hex top deformed locknut		Flange nut, locknut, or bolt tapped into flange nut or d&t* hole	
	ft• lb	N• m	ft• lb	N• m	ft• lb	N• m
1/4	14	19	10	14	24	33
5/16	30	40	18	25	50	70
3/8	55	73	35	50	90	125
7/16	85	115	50	70	140	190
1/2	130	175	80	110	220	300
9/16	190	260	110	150	310	420
5/8	260	355	160	245	430	585
3/4	450	610	270	365	750	1015
7/8	730	990	440	600	1210	1640
1	1090	1480	650	880	1320	2465
1-1/8	1550	2100	930	1260	2580	3500
1-1/4	2180	2955	1310	1780	3640	4935

*drilled and tapped

Metric Bolt and Cap Screw Torque Values

Size	Class 4.8				Class 8.8 and 9.8				Class 10.9				Class 12.9			
	Lubricated		Dry		Lubricated		Dry		Lubricated		Dry		Lubricated		Dry	
	N• m	ft• lb	N• m	ft• lb	N• m	ft• lb	N• m	ft• lb	N• m	ft• lb	N• m	ft• lb	N• m	ft• lb	N• m	ft• lb
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	225	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1600	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

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.

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, these should only be tightened to strength of original.

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

Tighten plastic insert or crimped type steel locknuts to approximately 50% of dry torque indicated on chart. Apply torque to the nut - not the bolt head. Tighten toothed or serrated type locknuts to full torque value.

LUBRICATED means coated with lubricant. DRY means plain or zinc plated without any type of lubricant.

Hydraulic Cylinder Bolt Torque Chart

Bolt Size (inch)	Bolt Part No.	Cylinder Repair Kit Part No.	Torque (ft• lb)	Torque (N• m)
1/2	106-096	190-165	90-100	120-135
5/8	106-097	190-166 & 190-169	180-200	245-270
3/4	106-098	190-167 & 190-170	290-325	395-440
7/8	106-122	190-172 & 190-174	410-640	550-625
1	106-145	190-175 & 190-189	630-700	855-950
1-1/8	106-146	190-177	770-850	1045-1170

As a general rule:

- 1/2-inch bolts are used in cylinders with 1-inch rods
- 5/8-inch bolts are used in cylinders with 1 1/4-inch rods
- 3/4-inch bolts are used in cylinders with 1 1/2-inch rods
- 7/8-inch bolts are used in cylinders with 1 3/4-inch rods
- 1-inch bolts are used in cylinders with 2-inch rods (one with 1 3/4-inch)
- 1-1/8-inch bolts are used in cylinders with 2-1/4-inch rods

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 torque to value shown on chart.

SAE & ORS Hydraulic Fitting Replacement O-Ring Chart

Fraction Size	Dash Size	SAE (Port Seal O-Ring)		ORS (Face Seal O-Ring)	
		Thread Size	O-Ring P/N	Thread Size	O-Ring P/N
1/16	1	NA	NA	NA	NA
1/8	2	5/16 - 24	NA	NA	NA
3/16	3	3/8 - 24	NA	NA	NA
1/4	4	7/16 - 20	155-760	9/16 - 18	157-037
5/16	5	1/2 - 20	NA	NA	NA
3/8	6	9/16 - 18	155-705	11/16 - 16	157-038
1/2	8	3/4 - 16	155-706	13/16 - 16	157-039
5/8	10	7/8 - 14	155-707	1 - 14	157-040
3/4	12	1-1/16 - 12	155-709	1-3/16 - 12	157-017
7/8	14	1-3/16 - 12	155-747	NA	NA
1	16	1-5/16 - 12	155-748	1-7/16 - 12	155-714
1-1/4	20	1-5/8 - 12	155-702	1-11/16 - 12	NA
1-1/2	24	1-7/8 - 12	157-001	2 - 12	NA
2	32	2-1/2 - 12	NA	NA	NA
2-1/2	40	3 - 12	NA	NA	NA
3	48	3-1/2 - 12	NA	NA	NA

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

NA = not a current CMW part numbered o-ring, or dash size does not occur in current CMW applications

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

ORS = o-ring face seal; a type of 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

SK800

Related Publications

Component	Ass'y	P/N
Model:		
SK800.....	Parts Manual	053-3000
SK800.....	Operators Manual.....	053-2976
SK800.....	Technical Information:	
	Component Repair Manual	_____
	Troubleshooting Manual.....	_____
Engine:		
Kubota 24.8 hp	Parts Manual – D1105T T4.....	195-1188..... 053-1338
Kubota	Operation Manual – D1105B/D1105T T4i	053-1337
Kubota	Service (Shop) Manual – D1105B/D1105T T4i	055-051

Filters

Engine:		
Air Filter Parts Assembly		194-093
Element (primary)		194-038
Element (secondary)		194-039
Oil Filter Element (spin-on)		194-881
Fuel Filter (05H-05H, in-line).....		155-941
Fuel Filter Element (spin-on).....		194-386
Hydraulic Oil Filter:		
Filter Element (1-UNF)		149-412

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



Ditch Witch

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(Please print clearly)

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

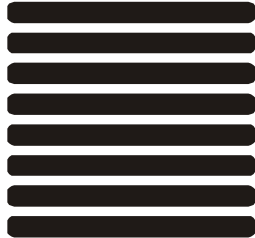
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