

PARTS MANUAL



 **WHITEMAN** SERIES

MODEL HHXDF4, HHXDF5 RIDE-ON TROWEL

(Kubota WG972 Dual Fuel Gasoline/Propane Engine)

Revision #5 (04/03/20)

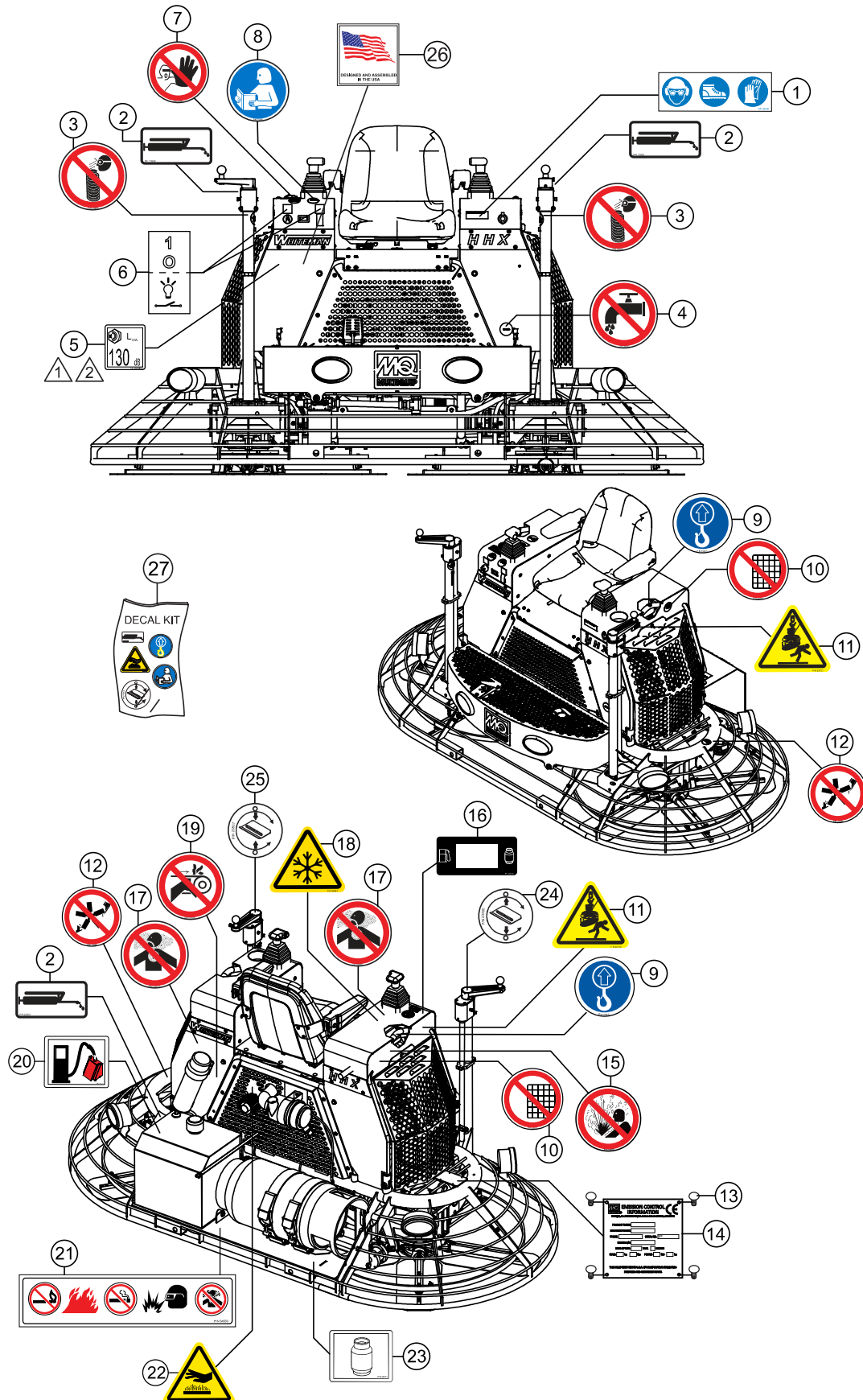
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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

PN: 32650

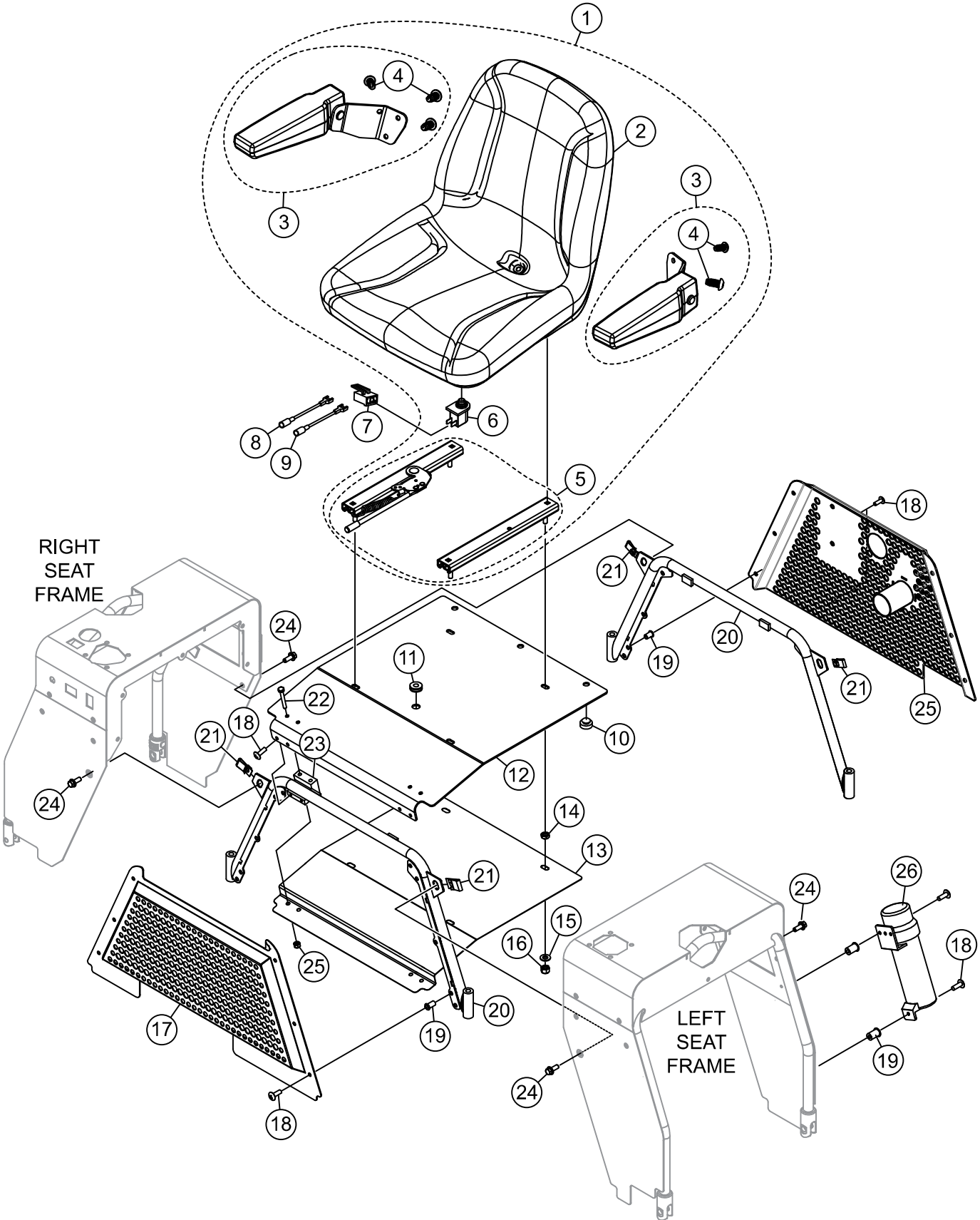
NAMEPLATE AND DECALS



NAMEPLATE AND DECALS

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1#	36099	DECAL ISO, PROTECTIVE CLOTHING, 3.50" X 1.13"	1	
2#	23809	DECAL ISO, LUBRICATION POINT	1	
3#	23804	DECAL ISO, DO NOT DISASSEMBLE, CYLINDER	2	
4#	23811	DECAL ISO, NO WATER WARNING, 2.0" DIA.	1	
5#	23803-130	DECAL, GUARANTEED SOUND POWER LEVEL	1	
6#	32554	DECAL ISO, LIGHT SWITCH	1	
7#	23701	DECAL ISO, ASK FOR TRAINING, 2.00" DIA.	1	
8#	23699	DECAL ISO, READ MANUAL 2.00" DIA.	1	
9#	23805	DECAL ISO, LIFT LOCATION 2.00" DIA.	2	
10#	23874	DECAL ISO, DO NOT REMOVE GUARDS, HAZARD 2.00" DIA.	1	
11#	23700	DECAL ISO, LIFTING/CRUSH, 2.4" X 2.0"	2	
12#	23698	DECAL ISO, ROATING BLADE HAZARD	2	
13	4014	SCREW, 2-3/16" P-K TYPE U-DRIVE	4	
14		SERIAL PLATE, ROT, CE	1	CONTACT MQ
				PARTS DEPT.
15#	23875	DECAL ISO, HOT COOLANT, 2.00" DIA.	1	
16#	32575	OVERLAY, FUEL SWITCH	1	
17#	23810	DECAL ISO, INHALATION HAZARD, 2.00" DIA.	2	
18#	32561	DECAL ISO, SNOWFLAKE, 2.00" DIA.	1	
19#	23704	DECAL ISO, GUARD WARNING	1	
20#	23812	DECAL ISO, FUEL, GASOLINE 3.00" X 2.45"	1	
21#	34630	DECAL ISO, FIRE, EXPLOSION, SMOKING HAZARD 6.50" X 1.40"	1	
22#	23808	DECAL ISO, HOT SURFACE HAZARD	1	
23#	32574	DECAL ISO, DECAL PROPANE	1	
24#	23806	DECAL, PITCH, RH 2.0" DIA.	1	
25#	23807	DECAL, PITCH, LH 2.0" DIA.	1	
26#	30538	DECAL, FLAG DESIGNED AND ASSEMBLED IN USA	1	
27	23859	DECAL, KIT	1	INCLUDES ITEMS W/#

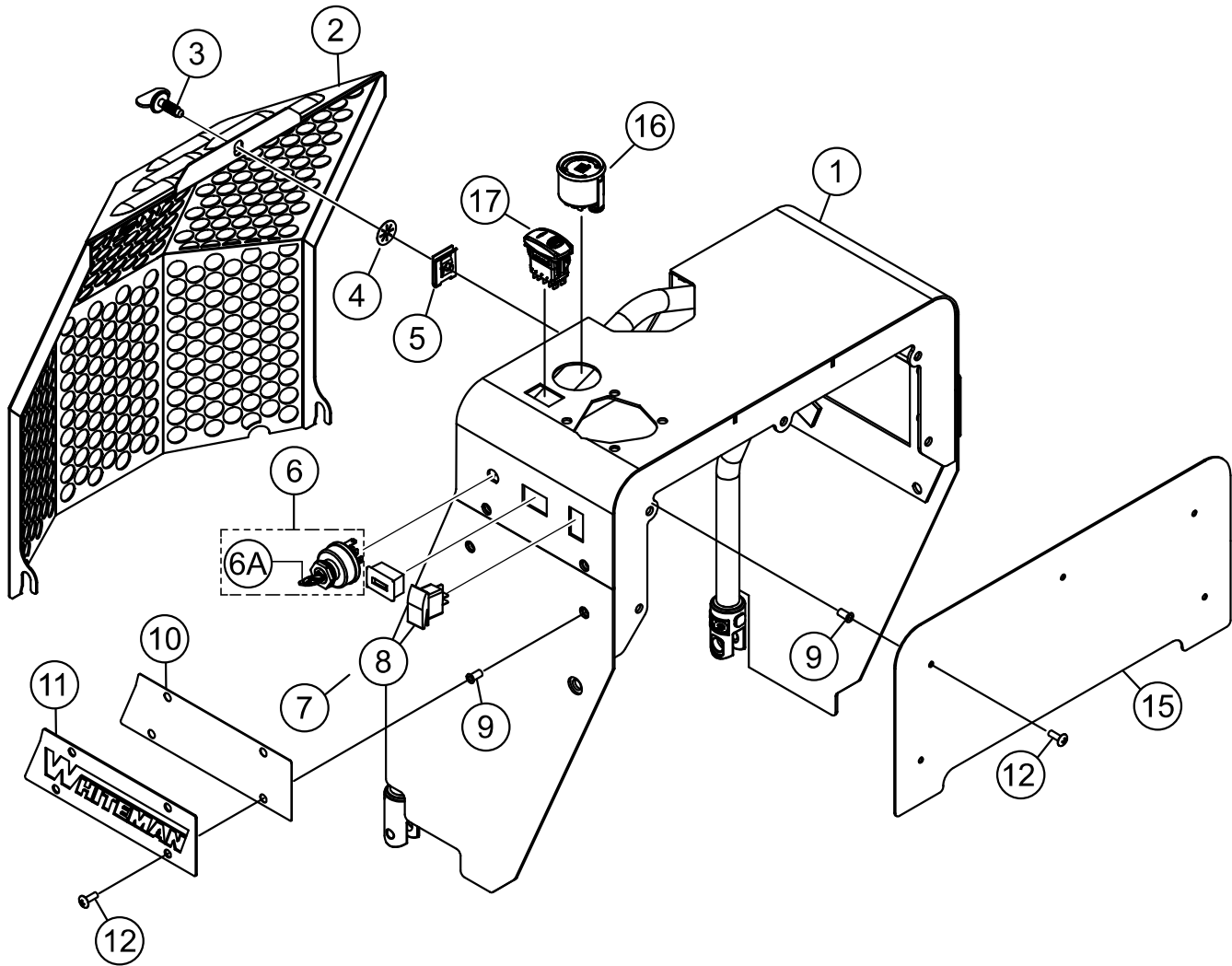
SEAT FRAME ASSY.



SEAT FRAME ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	21852-S	SEAT, MICHIGAN ADJUSTABLE W/ARMS	1.....	INCLUDES ITEMS W/@
2@	21860	SEAT, MICHIGAN, BASIC	1	
3@	21868	ARM REST KIT, MICHIGAN SEAT	2.....	INCLUDES ITEMS W/%
4@%	21869	SCREW, CAP 5/16"-18 X 5/8"	6	
5@	21865	SEAT ADJUSTER KIT, MICHIGAN SEAT	1	
6@	21870	SWITCH, KILL	1	
7	21936	CONNECTOR BODY, 2 PIN	1	
8	21924	WIRE ASSY., 16 GA. RED X 11"	1	
9	21923	WIRE ASSY., 16 GA. VIOLET/ORANGE X 12.5"	1	
10	21597	BUMPER STEM 1.0" DIA. X .5" X .31"	3	
11	30375	GROMMET, 3/16" THICK X 1" ID. X 1-3/4" OD.	1	
12	30374	PLATE, OPERATOR, SEAT	1	
13	23281	SHIELD, SEAT PLATE HEAT	1	
14	0106	NUT, HEX JAM 5/16"-18	4	
15	0300 B	WASHER, FLAT SAE 5/16"	4	
16	5283	NUT, NYLOC 5/16"-18	4	
17	23204	PANEL, FRONT	1	
18	12287	SCREW, THP 1/4"-20 X 3/4" SS	9	
19	19266	NUT, BLIND 1/4"-20 X 0.27-0.165	3	
20	23047	SUBFRAME, INNER SEAT	2	
21	23296	NUT, 3/8"-16 J-TYPE RETAINER	4	
22	20909	SCREW, HHC 1/4"-20 X 2"	4	
23	20685	BLOCK, OPERATOR SEAT PIVOT	2	
24	22228	SCREW, HHF 3/8"-16 X 1" GRD 8	4	
25	23787	PANEL, REAR	1	
26	23297	MANUAL HOLDER, PICTOGRAPH	1	

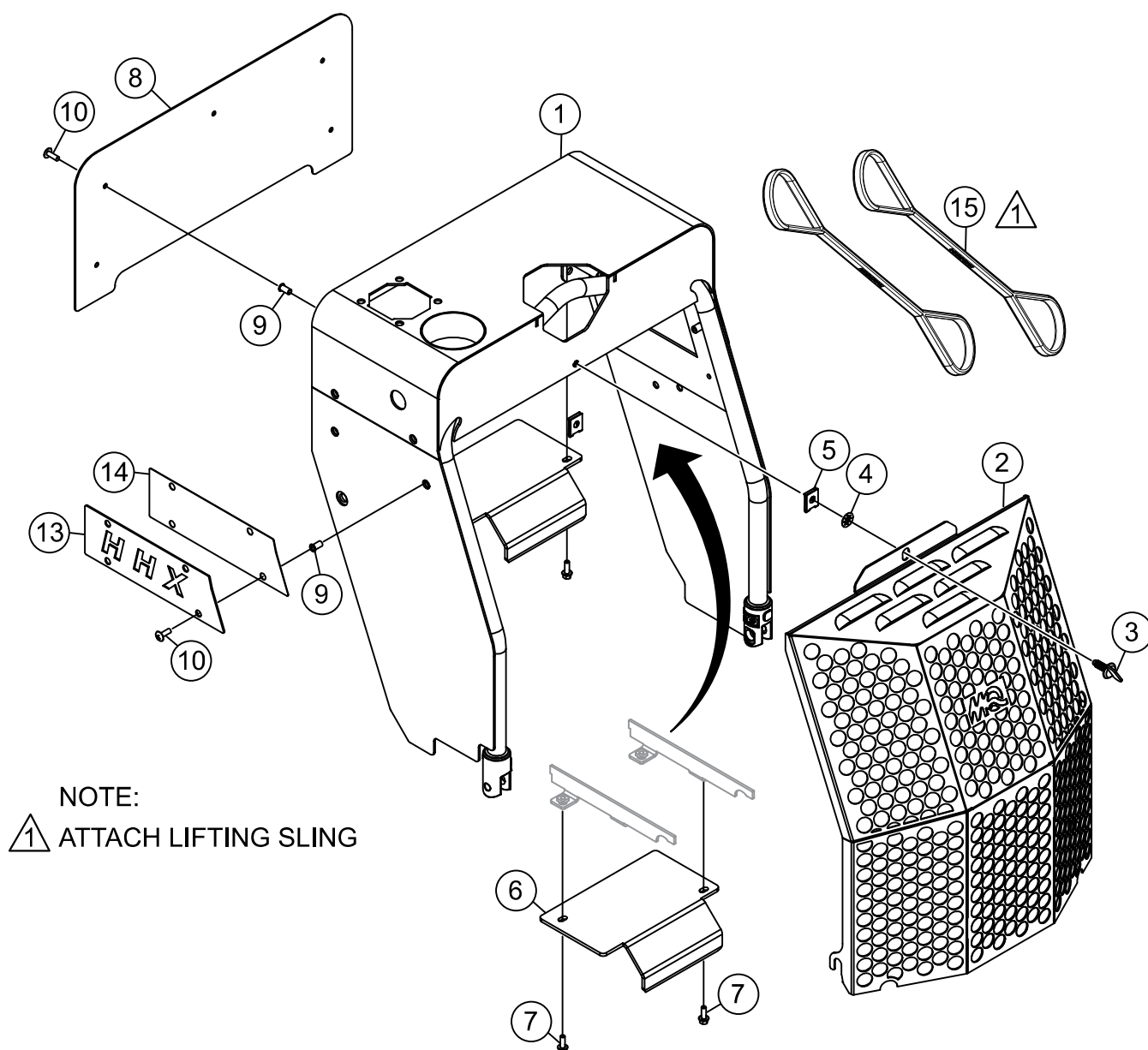
SEAT FRAME ASSY. (RIGHT)



SEAT FRAME ASSY. (RIGHT)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	30425	FRAME, SEAT, RIGHT	1	
2	23146	GUARD, GRILL	1	
3	21893	SCREW, FAST LEAD	1	
4	21986	WASHER, FAST LEAD-STAINLESS	1	
5	21894	CLIP, FAST LEAD	1	
6	23959	SWITCH, IGNITION.....	1	INCLUDES ITEMS W/\$
6A\$	23959-1	KEY, IGNITION	1	
7	29640	HOUR METER	1	
8	406000	ROCKER, LIGHT SWITCH, ON-OFF	1	
9	19266	NUT, BLIND 1/4"-20 X 10 GA.	9	
10	23286	PANEL, TRIM BACKING B	1	
11	23175	PANEL, SIDE TRIM "WHITEMAN"	1	
12	12287	SCREW, THP 1/4"-20 X 3/4" SS	9	
15	23130	PANEL, SIDE FRAME INTERIOR	1	
16	406021	INDICATOR, ENGINE	1	
17	42180	SWITCH, LOCK ROCKER	1	

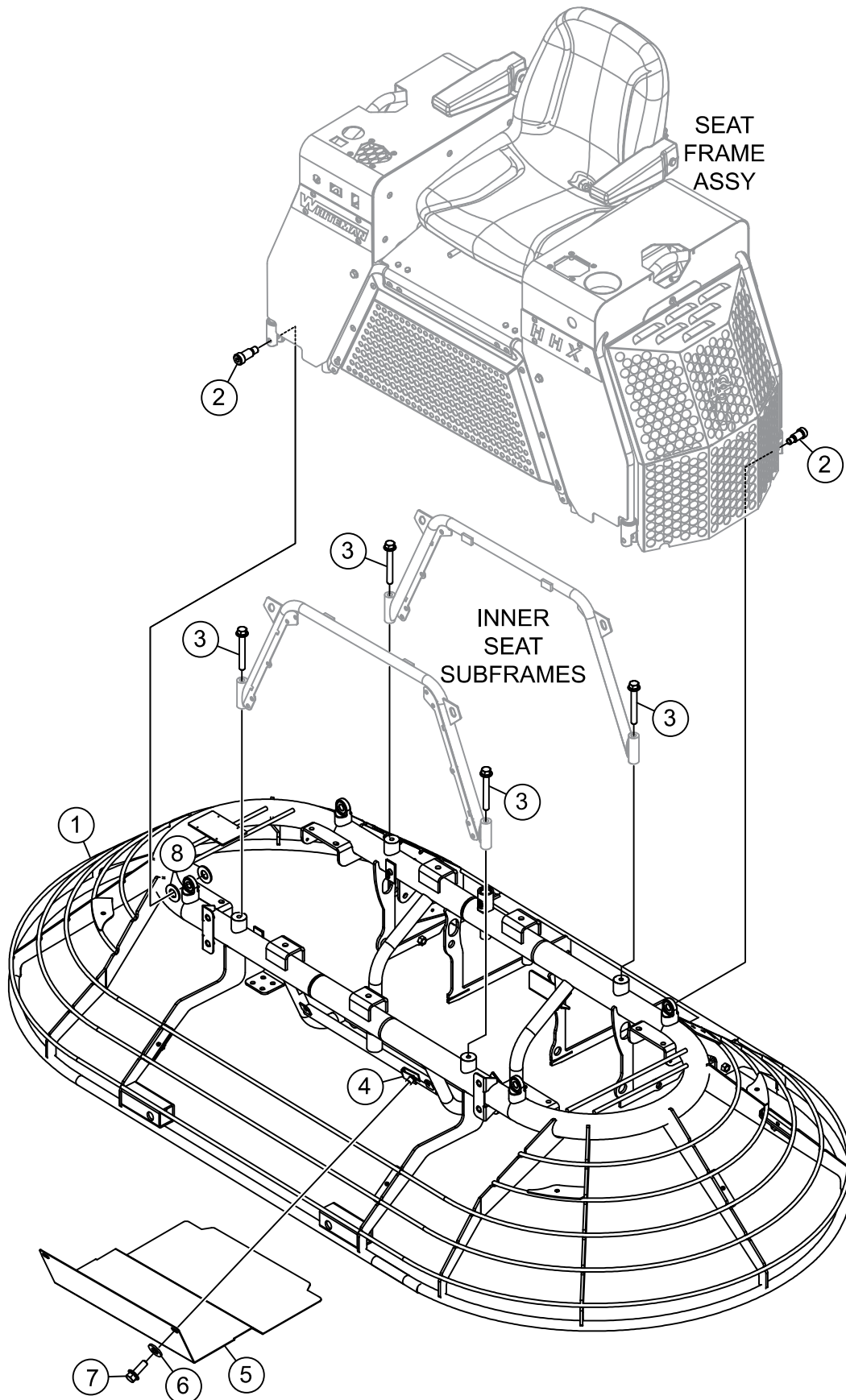
SEAT FRAME ASSY. (LEFT)



SEAT FRAME ASSY. (LEFT)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	30380	FRAME, SEAT LEFT	1	
2	23146	GUARD, GRILL	1	
3	21893	SCREW, FAST LEAD	1	
4	21986	WASHER,FAST LEAD-STAINLESS	1	
5	21894	CLIP, FAST LEAD	1	
6	23117	PLATE, LT HOOK GUARD	1	
7	49048	SCREW, HHF 3/8"-16 X 1.00 GRD 8	4	
8	23130	PANEL, SIDE FRAME INTERIOR	1	
9	19266	NUT, BLIND 1/4"-20 X 10 GA.	9	
10	12287	SCREW, THP 1/4"-20 X 3/4" SS	9	
13	23132	PANEL, SIDE TRIM "HHX"	1	
14	23285	PANEL, TRIM BACKING A	1	
15	23165	SLING, LIFTING	2	

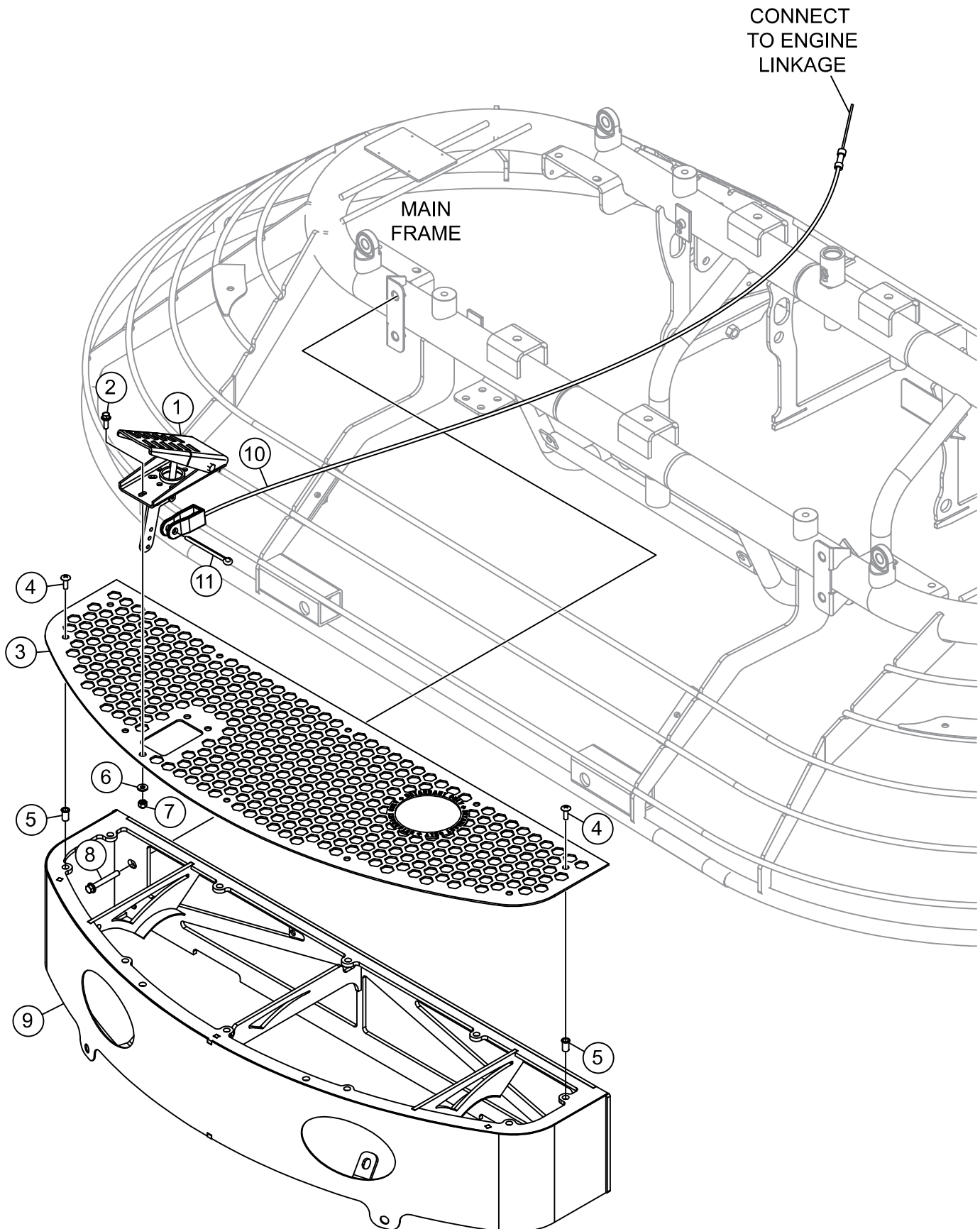
FRAME ASSY.



FRAME ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	23761	FRAME, MAIN	1	
2	9162	SCREW, SHOULDER M16 X M25 M12-1.75	4	
3	23288	SCREW, HHF M12-1.75 X 100	4	
4	11534	NUT, "U" TYPE, 1/4"-20	2	
5	23253	GUARD, BELT SPLASH	1	
6	3233	WASHER, FENDER, 3/8" X 1-1/2"	2	
7	49048	SCREW, HHFS 1/4"-20 X 3/4" GRD 5	2	
8	23303	BUSHING, SEAT FRAME	8	

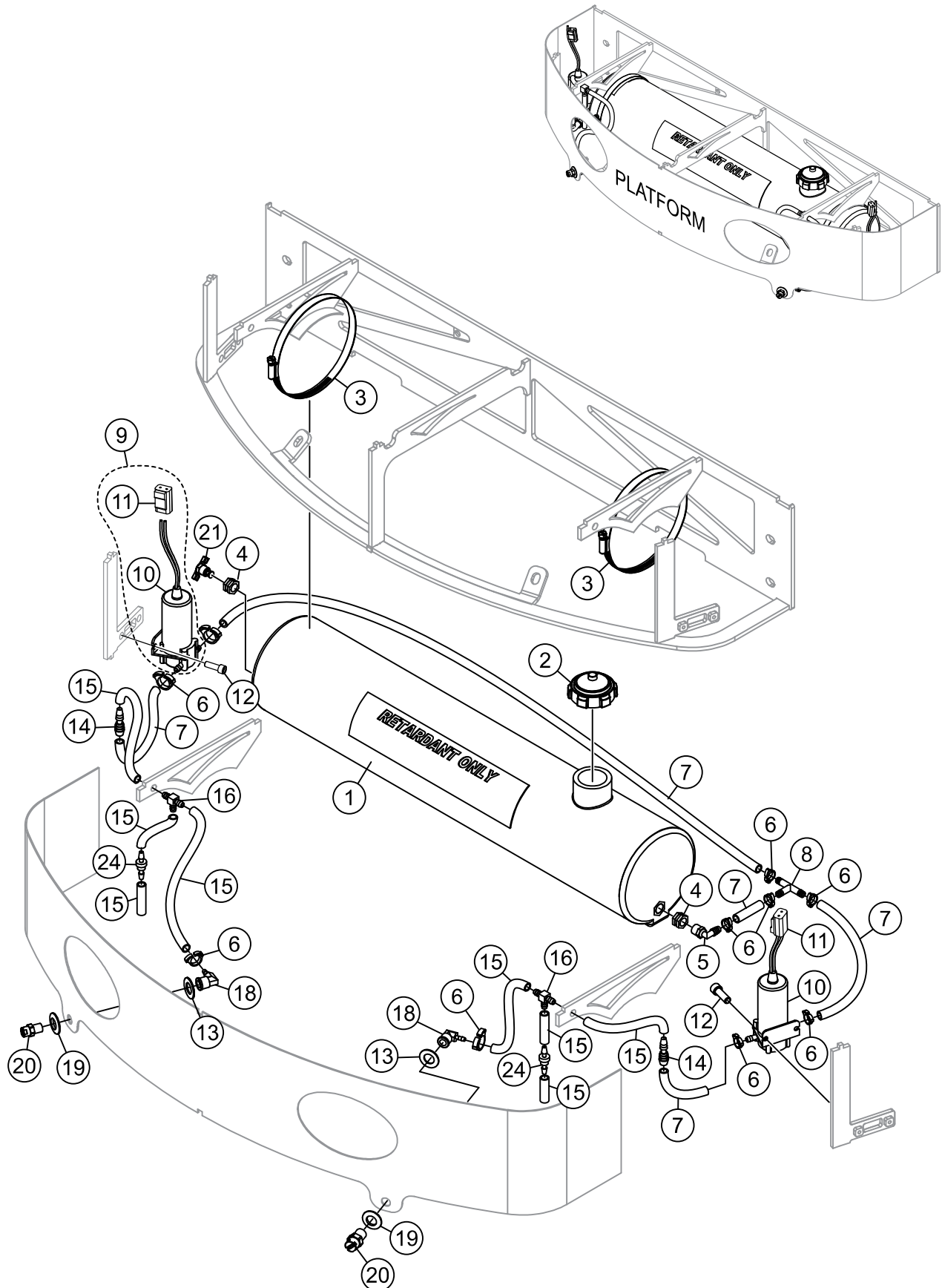
PLATFORM ASSY.



PLATFORM ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	20694	PEDAL, HYDRAULIC PUMP	1	
2	49048	SCREW, HHFS 1/4"-20 X 3/4" GRD 5	3	
3	23069	PLATE, FOOT PLATFORM TOP	1	
4	12287	SCREW, THP 1/4"-20 X 3/4" SS	10	
5	29452	NUT, BLIND 1/4"-20 X 3/16"	11	
6	0948	WASHER, FLAT SAE 1/4"	2	
7	10024	NUT, NYLOC 1/4"-20	2	
8	23305	SCREW, HHF M12-1.75 X 30"	4	
9	23058	PLATFORM, FOOT	1	
10	23818	CABLE, THROTTLE.....	1.....	INCLUDES ITEMS W/@
11@		PIN, COTTER	1.....	NOT SOLD SEPARATELY

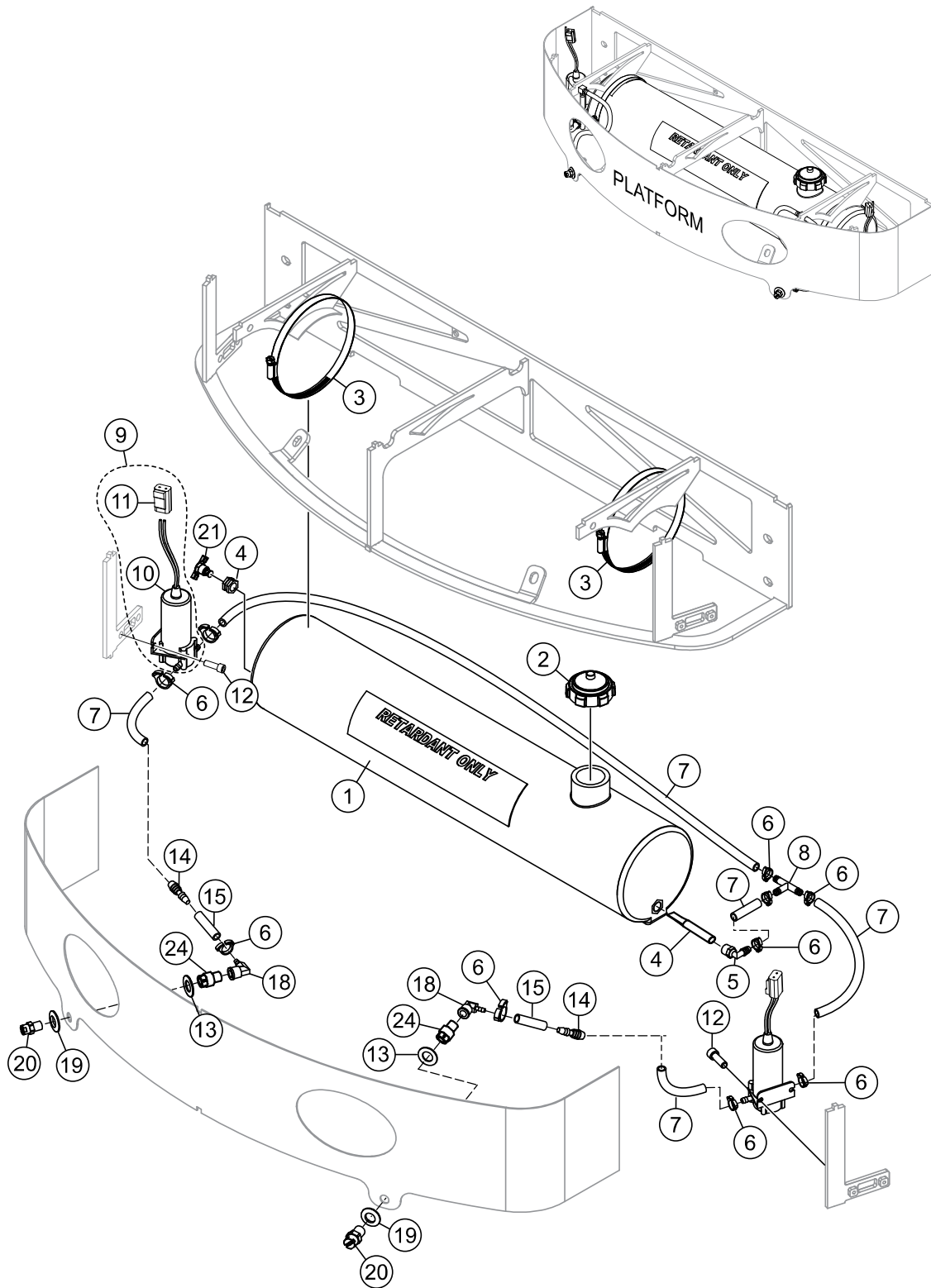
SPRAY ASSY. (S/N PH0209628 AND BELOW)



SPRAY ASSY. (S/N PH0209628 AND BELOW)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	2916	TANK, WATER, NPT BOSSES	1	
2	2108	CAP, SPRAY TANK	1	
3	2398	CLAMP, HOSE WORM 4.75" TO 6.50"	2	
4	2926	SCREEN STRAINER	2	
5	2925	FITTING, PLASTIC 90° 6BARB - 3/8" MP	1	
6	2918	CLAMP, HOSE PLASTIC .475" DIA. - .536" DIA.	10	
7	60002	HOSE, PVC CLEAR .375" ID.	5	1PC=1FT
8	23307	TEE, 3/8" BARB PLASTIC	1	
9	23434	PUMP, SPRAY W/CONNECTOR	2	INCLUDES ITEMS W/@
10@	12548	PUMP, SPRAY, SHURFLO	2	
11@	37402	CONNECTOR KIT, DEUTSCH	2	
12	923203	SCREW, SHC 1/4"-20 X 3/4"	4	
13	0447	WASHER, FLAT 1/2" SAE	2	
14	10022	FITTING, PLASTIC 6BARB - 4BARB	2	
15	60001	HOSE, PVC CLEAR .250" ID.	8	1PC=1FT
16	23122	TEE, 1/4" BARB PLASTIC	2	
18	2912	FITTING, BRASS 90° 4BARB - 1/4" FP	2	
19	2898	WASHER, BONDED NEOPRENE 1" X 1/2"	2	
20	392292	NOZZLE, SPRAY	2	
21	2478	FITTING, PETCOCK DRAIN 1/4" MP	1	
24	23076	CHECK VALVE, DUCKBILL 3/16"	2	

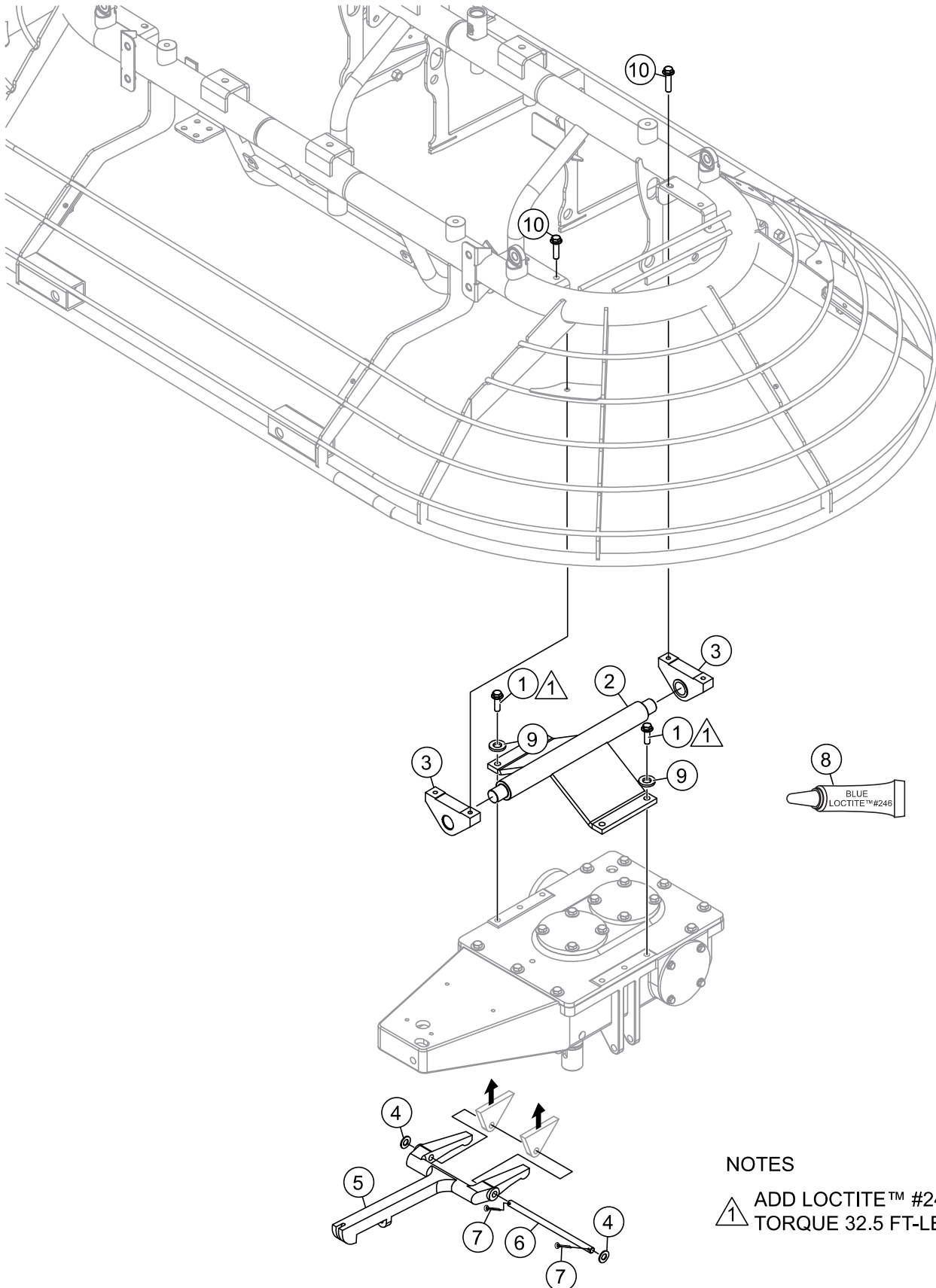
SPRAY ASSY. (S/N PH0209629 AND ABOVE)



SPRAY ASSY. (S/N PH0209629 AND ABOVE)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	2916	TANK, WATER, NPT BOSSES	1	
2	2108	CAP, SPRAY TANK	1	
3	2398	CLAMP, HOSE WORM #96 4.75" TO 6.50"	2	
4	2926	SCREEN STRAINER	1	
5	2925	FITTING, PLASTIC 90° 6BARB - 3/8" MP	1	
6	2918	CLAMP, HOSE PLASTIC .475" DIA - .536" DIA.	10	
7	60002	HOSE, PVC CLEAR .375" ID. (4.04 IN.)	5	1PC=1FT
8	23307	TEE, 3/8" BARB PLASTIC	1	
9	23434	PUMP, SPRAY W/CONNECTOR	2	INCLUDES ITEMS W/@
10@	12548	PUMP, SPRAY, SHURFLO	2	
11@	37402	CONNECTOR KIT, DEUTSCH	2	
12	923203	SCREW, SHC 1/4"-20 X 3/4"	4	
13	0447	WASHER, FLAT 1/2" SAE	2	
14	10022	FITTING, PLASTIC 6BARB-4BARB	2	
15	60001	HOSE, PVC CLEAR .250" ID. (.33 IN.)	1	1PC=1FT
18	2912	FITTING, BRASS 90° 4BARB-1/4" FP	2	
19	2898	WASHER, BONDED NEOPRENE 1" X 1/2"	2	
20	392292	NOZZLE, SPRAY	2	
21	2478	FITTING, PETCOCK RAD. DRAIN 1/4" MP	1	
24	42637	CHECK VALVE, 1/4" MNPT X 1/4" FNPT 3 PSI	2	

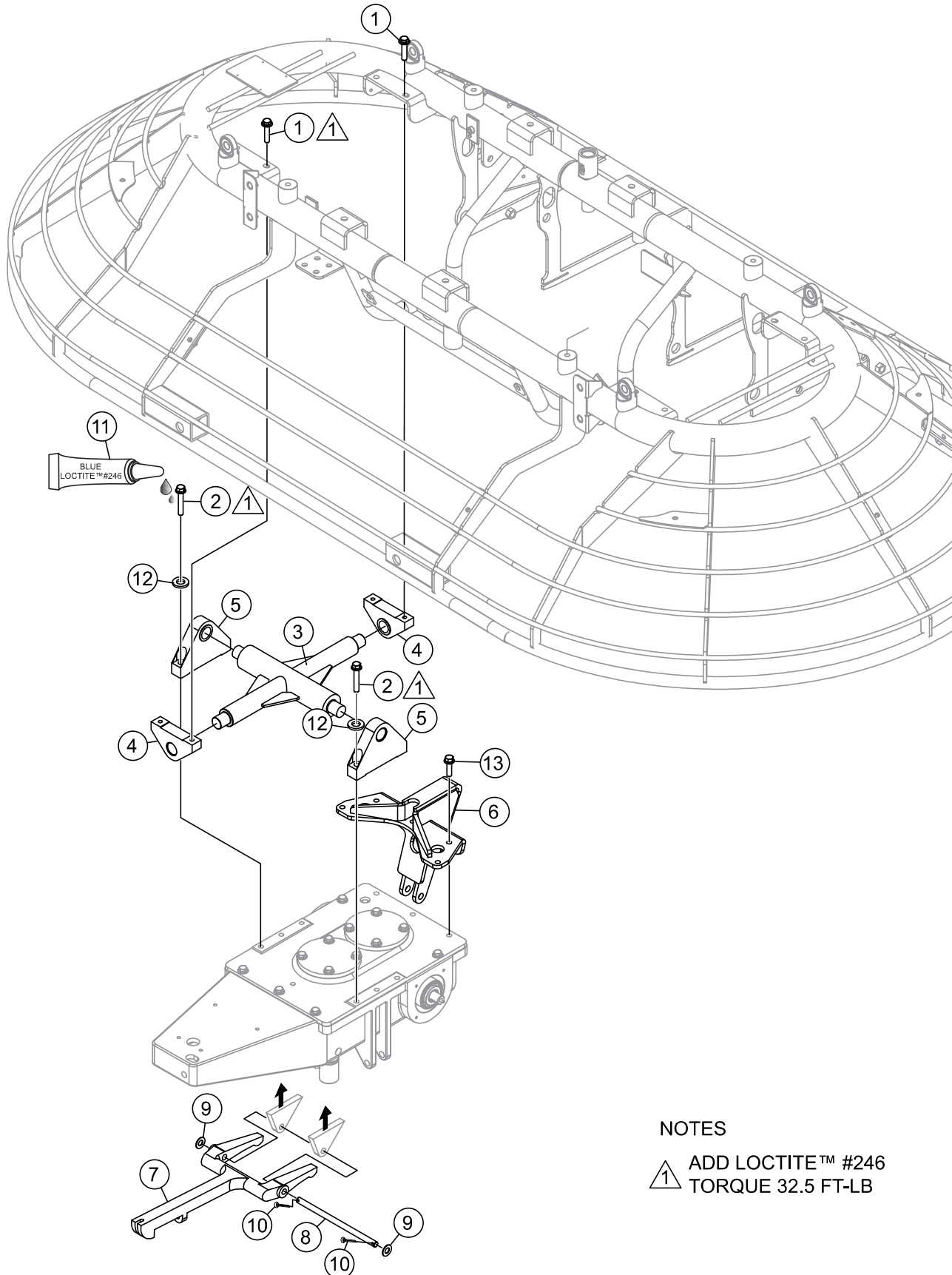
PIVOT ASSY. (LEFT)



PIVOT ASSY. (LEFT)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	32271	SCREW, HHF 3/8"-16 X 2-1/4"	4	
2	23088	PIVOT, GEAR BOX	1	
3	11555	PIVOT BLOCK ASSY., MOTOR MOUNT W/BUSHING	2	
4	0448	WASHER, FLAT SAE 7/16"	2	
5	11499	YOKE ARM, PITCH	1	
6	11648	SHAFT, YOKE PIVOT	1	
7	0183	PIN, COTTER 1/8" DIA. X 1-1/4"	2	
8	60097	LOCTITE, BLUE #246	AR	
9	21707	WASHER, FLAT 3/8", NORD-LOC, NL 3/8" SP	4	
10	22106	SCREW, HHFS 3/8"-16 X 1.25"	4	

PIVOT ASSY. (RIGHT)



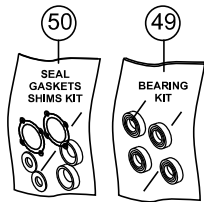
NOTES

- △ ADD LOCTITE™ #246
TORQUE 32.5 FT-LB

PIVOT ASSY. (RIGHT)

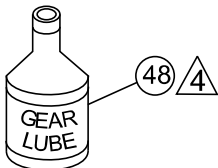
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	22106	SCREW, HHFS 3/8"-16 X 1.25" ZINC	5	
2	32272	SCREW, HHFS 3/8"-16 X 2.25"	4	
3	23090	TRUNNION, GEARBOX	1	
4	11555	PIVOT BLOCK ASSY., MOTOR MOUNT W/BUSHING	2	
5	12713	ROCKER BLOCK ASSY., GEARBOX 1.00 DIA.	2	
6	23093	BRACKET, GEAR BOX STEERING SUPPORT	1	
7	11499	YOKE ARM, PITCH	1	
8	11648	SHAFT, YOKE PIVOT	1	
9	0448	WASHER, FLAT SAE 7/16"	2	
10	0183	PIN, COTTER 1/8" DIA. X 1-1/4"	2	
11	60097	LOCTITE, BLUE #246	AR	
12	21707	WASHER, FLAT 3/8"	4	
13	32476	SCREW, HHF 3/8"-16 X 1.25" GRD 8	5	

GEAR BOX ASSY. (SINGLE SIGHT GLASS)

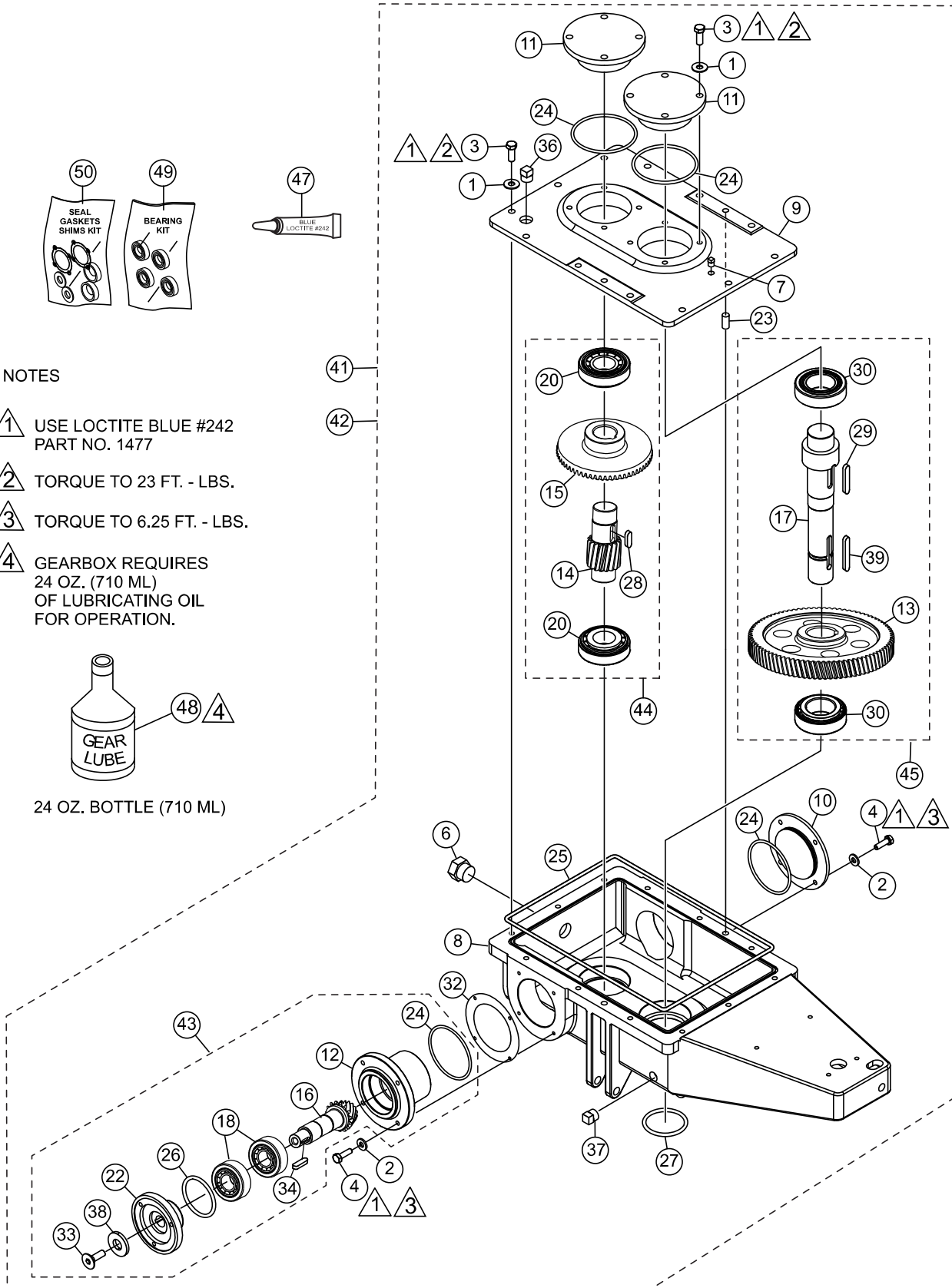


NOTES

- ① USE LOCTITE BLUE #242 PART NO. 1477
- ② TORQUE TO 23 FT. - LBS.
- ③ TORQUE TO 6.25 FT. - LBS.
- ④ GEARBOX REQUIRES 24 OZ. (710 ML) OF LUBRICATING OIL FOR OPERATION.



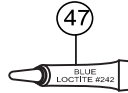
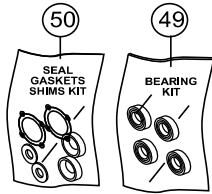
24 OZ. BOTTLE (710 ML)



GEAR BOX ASSY. (SINGLE SIGHT GLASS)

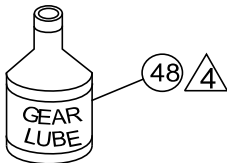
NO.	PART NO.	PART NAME	QTY.	REMARKS
1\$	10136	WASHER, FLAT SAE 3/8"	16	
2\$	0948	WASHER, FLAT SAE 1/4"	8	
3\$	0205	SCREW, HHC 3/8"-16 X 1"	16	
4\$	2295	SCREW, HHC 1/4"-20 X 7/8"	8	
6\$	11584	SIGHT GLASS	1	
7\$	11682	FITTING, PLUG, 1/8" MP SQ HEAD	1	
8\$		GEARBOX HOUSING	1	NOT SOLD SEPARATELY
9\$	21811	COVER, GEAR BOX	1	
10\$	21813	CAP, HELICAL GEARBOX INPUT	1	
11\$	21810	CAP, HELICAL GEARBOX IDLER	2	
12\$%		HUB, HELICAL INPUT SHAFT	1	MUST PURCHASE KIT
13\$+		GEAR, 85T HELICAL	1	MUST PURCHASE KIT
14\$@		GEAR, PINION 17T, HELICAL	1	MUST PURCHASE KIT
15\$@		GEAR, SPIRAL BEVEL, 60T 6.00PD	1	MUST PURCHASE KIT
16\$%		PINION, 15T SPIRAL BEVEL	1	MUST PURCHASE KIT
17\$+	21804	SHAFT, OUTPUT	1	MUST PURCHASE KIT
18\$%#	21803	BEARING, TAPERED ROLLER SET	2	
20\$@#	21802	BEARING, TAPERED ROLLER SET	2	
22\$%		COUPLER, GEARBOX	1	MUST PURCHASE KIT
23\$	12697	PIN, DOWEL 0.375/.3752 X 3/4"	2	
24\$%>	12698	O RING	4	
25\$>	12700	SEAL, CASE O-RING HHN 0.103 X 46.38	1	
26\$%>	12701	SEAL	1	
27\$>	12702	SEAL	1	
28\$@	12735	KEY, 3/8" X 3/4"	1	
29\$+	12736	KEY, HARDENED 3/8" X 1-1/2"	1	
30\$+#	21801	BEARING, CONE TAPERED ROLLER SET	2	
32\$		SHIM, INPUT 0.002 THICK	3	MUST ORDER P/N 20932
33\$%	1313	SCREW, FHSC 3/8"-24 X 3/4" PLAIN	1	
34\$%	26034	KEY, 3/16" X 17/32"	1	
36\$	911064	FITTING, PLUG 1/2" MP SQ HEAD	1	
37\$	911329	FITTING, PLUG 3/8" MP MAGNETIC	2	
38\$%	9120	RETAINER, DRIVEN PULLEY	1	
39\$+	12687	KEY, 3/8" SQ X 2"	1	
41	32214	GEARBOX ASSY. W/OIL, RIGHT	1	INCLUDES ITEMS W/\$
42	32213	GEARBOX ASSY. W/OIL, LEFT	1	INCLUDES ITEMS W/\$
43\$	21853854INPUT	KIT, INPUT PINION/HUB/COUPLER	1	INCLUDES ITEMS W/%
44\$	21853854INTER	KIT, INTER PINION/GEAR	1	INCLUDES ITEMS W/@
45\$	21853854OUTPUT	KIT, OUTPUT SHAFT/GEAR	1	INCLUDES ITEMS W/+
47	1477	LOCTITE BLUE #242	1	
48	20445	OIL, HELICAL SERVICE 24 OZ.	6	
49	32077	KIT, SERVICE, BEARING REPLACEMENT.	1	INCLUDES ITEMS W/#
50	20932	KIT, SEAL GEARBOX	1	INCLUDES ITEMS W/>

GEAR BOX ASSY. (DUAL SIGHT GLASS)

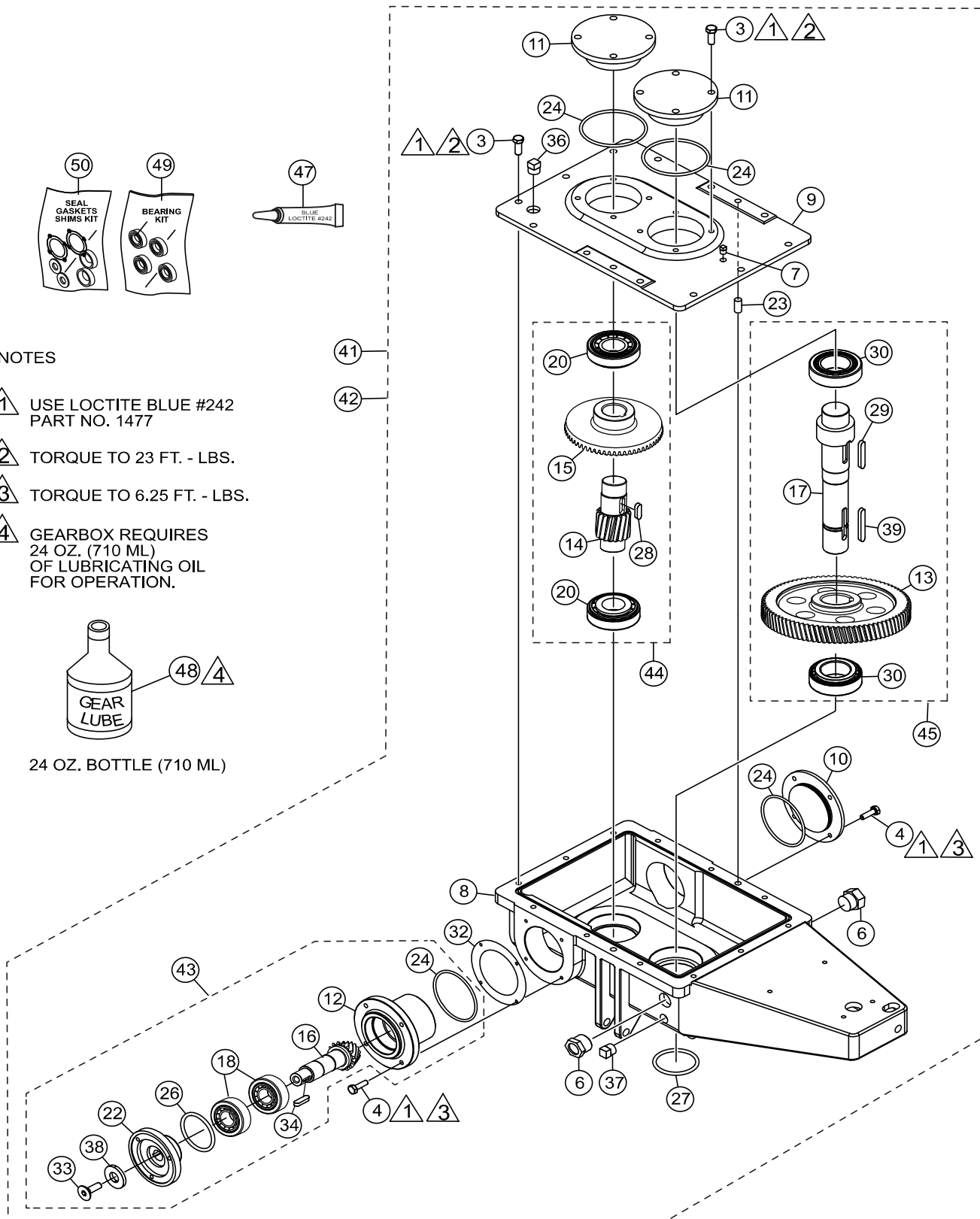


NOTES

- 1 USE LOCTITE BLUE #242 PART NO. 1477
- 2 TORQUE TO 23 FT. - LBS.
- 3 TORQUE TO 6.25 FT. - LBS.
- 4 GEARBOX REQUIRES 24 OZ. (710 ML) OF LUBRICATING OIL FOR OPERATION.



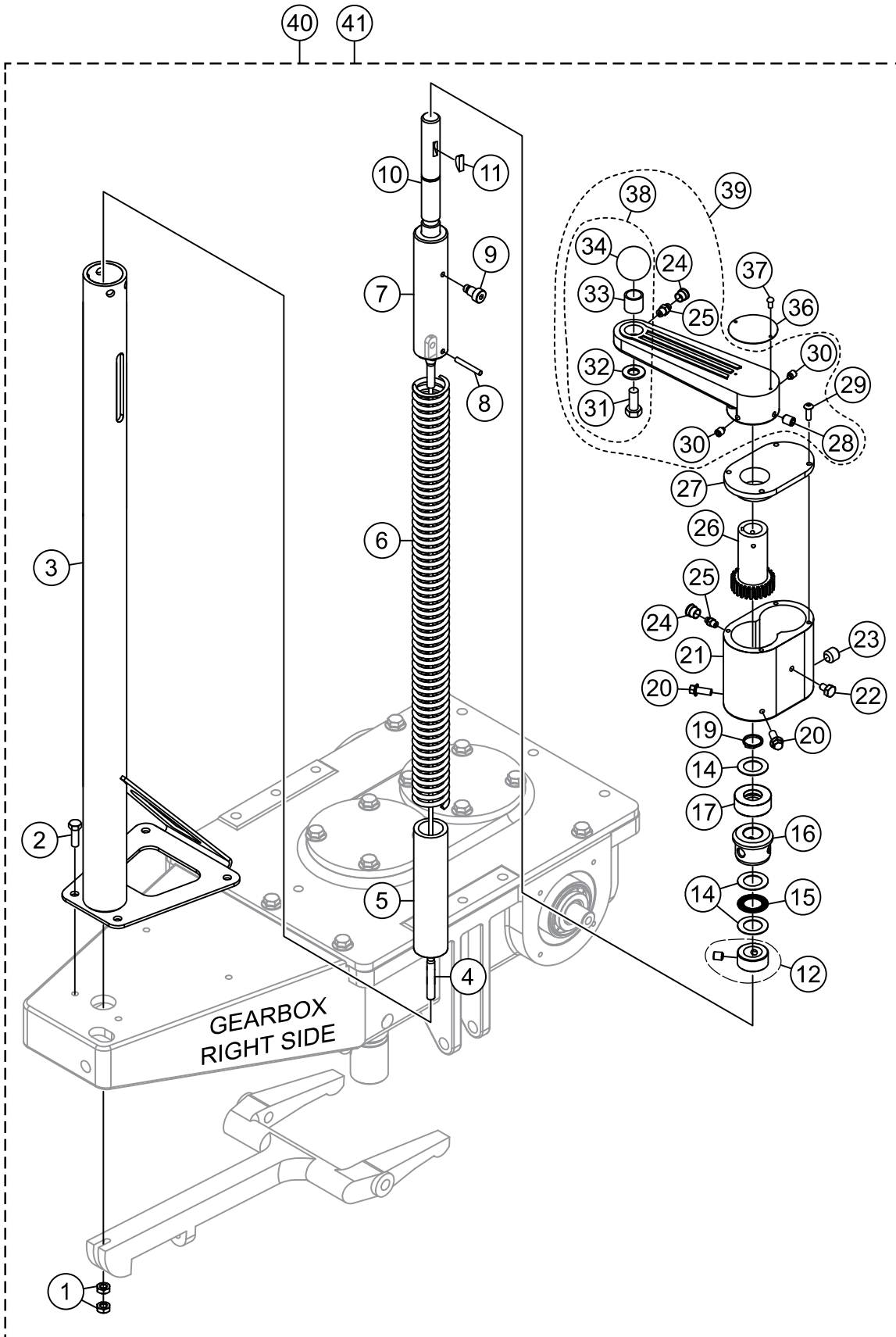
24 OZ. BOTTLE (710 ML)



GEAR BOX ASSY. (DUAL SIGHT GLASS)

NO.	PART NO.	PART NAME	QTY.	REMARKS
3\$	32379	SCREW, HFS 3/8-16 X 1	20	
4\$	46031	SCREW, HFS 1/4-20 X 1	8	
6\$	21033	SIGHT GLASS	2	
7\$	11682	FITTING, PLUG, 1/8 MP SQ HEAD	1	
8\$	21812	GEARBOX HOUSING	1	
9\$	21811	COVER, GEAR BOX	1	
10\$	32537	END CAP, BLIND, INPUT	1	
11\$	32533	END CAP, UPPER SHAFT BEARING	2	
12\$%		HUB, HELICAL INPUT SHAFT	1	MUST PURCHASE KIT
13\$+		GEAR, 85T HELICAL	1	MUST PURCHASE KIT
14\$@		GEAR, PINION 17T, HELICAL	1	MUST PURCHASE KIT
15\$@		GEAR, SPIRAL BEVEL, 60T 6.00PD	1	MUST PURCHASE KIT
16\$%		PINION, 15T SPIRAL BEVEL	1	MUST PURCHASE KIT
17\$+		SHAFT, OUTPUT	1	MUST PURCHASE KIT
18\$%	21803	BEARING, TAPERED ROLLER SET	2	
20\$@	21802	BEARING, TAPERED ROLLER SET	2	
22\$%		COUPLER, GEARBOX	1	MUST PURCHASE KIT
23\$	926942	PIN, DOWEL 0.375 DIA. X 3/4	2	
24\$%	12698	O RING	2	
26\$%	12701	SEAL	1	
27\$	12702	SEAL	1	
28\$@	12735	KEY, 3/8 X 3/4	1	
29\$+	12736	KEY, HARDENED 3/8 X 1-1/2	1	
30\$+	21801	BEARING, CONE TAPERED ROLLER SET	2	
32\$	21800	SHIM, INPUT. 0.002 THICK	3	
33\$%	30318	SCREW, FHSC 3/8 - 24 X 1	1	
34\$%	26034	KEY, 3/16 X 17/32	1	
36\$	911064	FITTING, PLUG 1/2 MP SQ HEAD	1	
37\$	911329	FITTING, PLUG 3/8 MP MAGNETIC	2	
38\$%	9120	RETAINER, DRIVEN PULLEY	1	
39\$+	12687	KEY, 3/8 SQ X 2	1	
41	32958-SK	GEARBOX ASSY., RIGHT	1	INCLUDES ITEMS W/\$
42	32957-SK	GEARBOX ASSY., LEFT	1	INCLUDES ITEMS W/\$
43\$	32536	INPUT HUB ASSY.....	1	INCLUDES ITEMS W/%
44\$	32653	INTERMEDIATE SHAFT ASSY.....	1	INCLUDES ITEMS W/@
45\$	32652	OUTPUT SHAFT ASSY.	1	INCLUDES ITEMS W/+
47	1477	LOCTITE BLUE #242	1	
48	60078	OIL, GEAR LUBE ISO GRADE 220	1	
49	32077	KIT, SERVICE, BEARING REPLACEMENT	1	INCLUDES ITEMS W/#
50	20932	KIT, SEAL GEARBOX	1	INCLUDES ITEMS W/>

PITCH CONTROL TOWER ASSY.



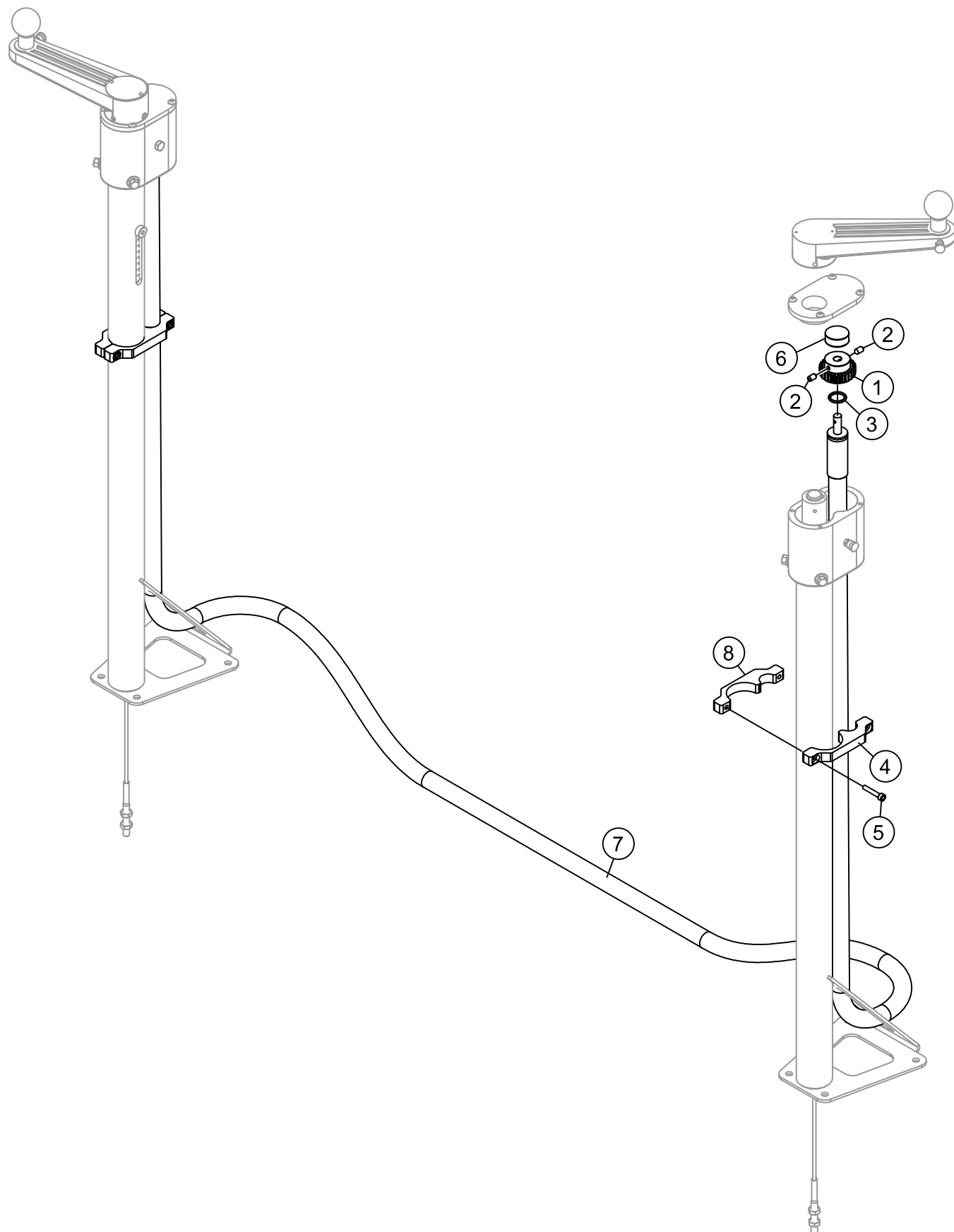
PITCH CONTROL TOWER ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1#	1116	NUT, BRASS JAM 5/16"-18	2	
2#	9091	SCREW, HHFS 5/16"-18 X 1" GRD 5	4	
3#	23154	TOWER, PITCH CONTROL	1	RIGHT-SIDE
3#	23167	TOWER, PITCH CONTROL	1	LEFT-SIDE
4#	11623	CABLE ASSY., 32.38"	1	
5#	11649	SPACER, PITCH SPRING	1	
6#	2156	SPRING, HANDLE BALANCE COIL	1	
7#	10721	SLIDE BLOCK, PITCH CONTROL	1	RIGHT-SIDE
7#	10722	SLIDE BLOCK, PITCH CONTROL	1	LEFT-SIDE
8#	10723	PIN, SPIRAL 3/16" X 1-3/8" HD	1	
9#	10382	BOLT, SHOULDER, 3/8" X 3/8"	1	
10#	10510	SHAFT, PITCH CONTROL	1	RIGHT-SIDE
10#	10511	SHAFT, PITCH CONTROL	1	LEFT-SIDE
11#	0126	KEY, WOODRUFF #606 3/16" X 3/4" (#9)	1	
12#	2367	COLLAR, SET .75 X 1.25 X .56	1	
14#	2170	BEARING, RACE, TORR. #TRA1220	3	
15#	2169	BEARING, THRUST, TORR. #NTA1220	1	
16#	1612	BEARING, ALUM., PITCH CONTROL	1	
17#	1604	BEARING, BALL THRUST E5 AETNA	1	
19#	10512	RING, SNAP	1	
20#	22021	SCREW, HHFS M8-1.25 X 20 MM	2	
21#	23037	HOUSING, PITCH CONTROL	1	
22#	20476	SCREW, HHC 1/4"-28 X 3/8"	1	
23#	17109	SCREW, SHSCU M8-1.25 X 8 MM	2	
24%#	2621	FITTING, GREASE ZERK STRAIGHT 1/4"-28	2	
25%#	1162 A	CAP, GREASE ZERK	2	
26#	1529	GEAR, DRIVE PITCH CONTROL	1	
27#	2649	COVER, PITCH CONTROL HOUSING	1	
28%#	0185	SCREW, SHS 3/8"-16 X 3/8", NO PLATE	1	
29#	9191	SCREW, BHSC M5-0.8 X 16 MM	4	
30%#	1528	SCREW, SHS 1/4"-20 X 5/16" H.D.P.	2	
31 @%#	1616	BOLT, SHOULDER .5 DIA. X .469 X 3/8"-16	1	
32 @%#	1733	WASHER, 1/2" X 1/32"	1	
33 @%#	3231	SPACER, .75 DIA. X .406 DIA. X .688	1	
34 @%#	4403	KNOB, ROUND 1-3/8" DIA. X 3/8"-16	1	
36#	23806	DECAL, PITCH	1	RIGHT-SIDE
36#	23807	DECAL, PITCH	1	LEFT-SIDE
37#	4014	SCREW, 3/16" P-K TYPE U DRIVE	2	
38%#	2737	KNOB, KIT	1	INCLUDES ITEMS W/@
39#	1617	LEVER ASSY., TROWEL ADJUSTMENT	1	INCLUDES ITEMS W/%
40	23187	TOWER ASSEMBLY, PITCH CONTROL, RH	1	INCLUDES ITEMS W/#
41	23188	TOWER ASSEMBLY, PITCH CONTROL, LH	1	INCLUDES ITEMS W/\$

NOTICE

Indicated quantities are for one pitch tower. If ordering for two pitch towers, double the quantity.

PITCH CONTROL DRIVE CABLE ASSY.

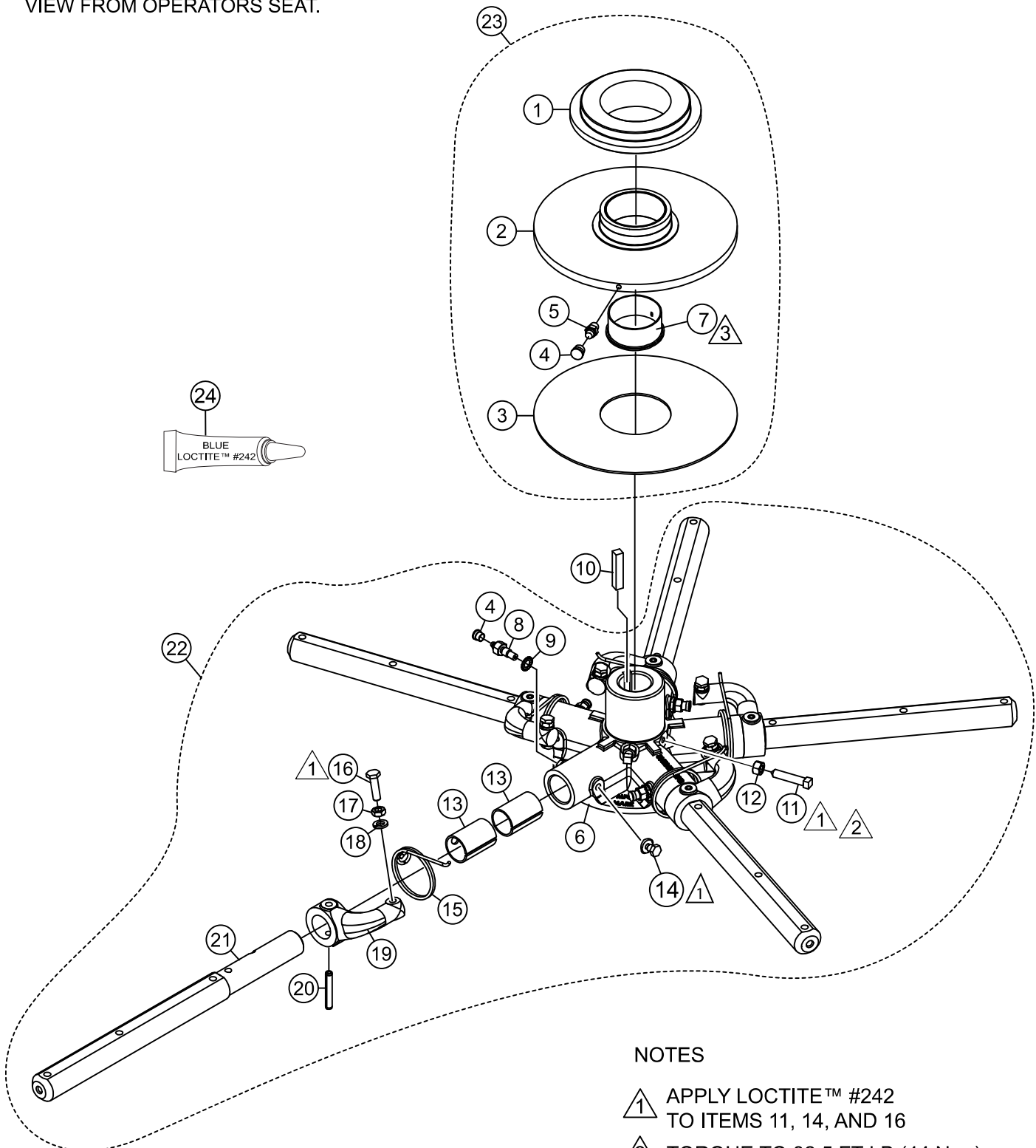


PITCH CONTROL DRIVE CABLE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	23036	GEAR, PITCH CONTROL	2	
2	9195	SCREW, SHS M5-0.8 X 10	4	
3	9196	O-RING, SIZE 2-118 BUNA-N 70	2	
4	23295	CLAMP, PITCH CABLE.....	2.....	MAY 2011 AND ABOVE
5	37325	SCREW, SHC M5-0.8 X 30 MM	4	
6	32802	SPACER, PITCH CONTROL	2	
7	23017	DRIVE CABLE, PITCH CONTROL	1	
8	23615	CLAMP, PITCH CABLE, THREADED	2.....	MAY 2011 AND ABOVE

5-BLADE SPIDER ASSY. (LEFT)

LEFT-SIDE SPIDER ASSEMBLY (5-BLADE).
VIEW FROM OPERATORS SEAT.



NOTES

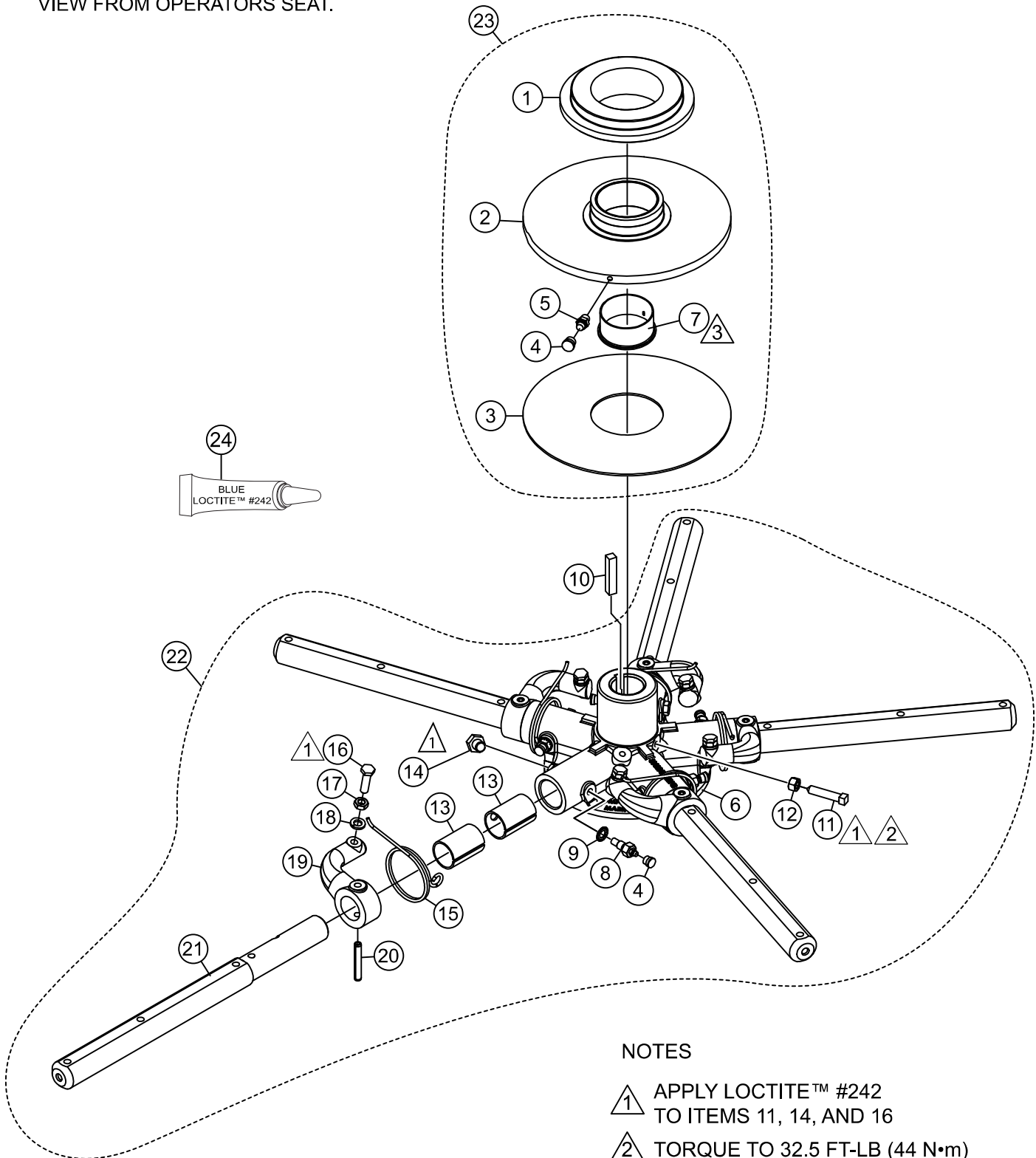
- ① APPLY LOCTITE™ #242 TO ITEMS 11, 14, AND 16
- ② TORQUE TO 32.5 FT-LB (44 N•m)
- ③ PART OF ITEM 2

5-BLADE SPIDER ASSY. (LEFT)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1#	12779	BEARING, THRUST 6017-24S W/FLANGE	1	
2#	11431	THRUST COLLAR W/BUSHING	1	
3#	11419	PLATE, WEAR	1	
4#@	1162 A	CAP, GREASE ZERK, #2 YELLOW	6	
5#	2621	FITTING, GREASE ZERK STRAIGHT 1/4"-28	1	
6@	21208	SPIDER PLATE, 5 BLADE L.S. 1.5, SILVER	1	
7#	12316	BUSHING, THRUST COLLAR W/ HOLE	1	
8@	1322	SCREW, ARM RETAINING	5	
9@	1875	WASHER, INT. SHKP, 3/8"	5	
10	12687	KEY, 3/8" X 2" SQUARE	1	
11@	12097	SCREW, SQHS 3/8"-16 X 1-3/4" CONE GRD 8	2	
12@	1456	NUT, HEX FINISH 3/8"-16	2	
13@	11039	BUSHING, TROWEL LARGE ARM	10	
14@	11602	SCREW, HHS 3/8"-16 X 1/4"	5	
15@	9111	SPRING, LS H ARM RETURN STD. BOSS	5	
16@	0164 B	SCREW, HHC ROUNDED 3/8"-16	5	
17@	1876	NUT, HEX JAM 3/8"-16	5	
18@	0166 A	WASHER, LOCK, 3/8" MED.	5	
19@	11903-1	LEVER, TROWEL ARM, LEFT, SILVER	5	
20@	9006	PIN, ROLL 5/16" X 2 NO PLATE	5	
21@	2829-1	ARM, TROWEL HD EXTENDED, SILVER	5	
22	12932	SPIDER ASSY., 5 BLADE L.S. 1-1/2"	1	INCLUDES ITEMS W/@
23	20938	THRUST COLLAR ASSY.	1	INCLUDES ITEMS W/#
24	1477	LOCTITE™ #242 BLUE 0.5 CC BOTTLE	AR	

5-BLADE SPIDER ASSY. (RIGHT)

RIGHT-SIDE SPIDER ASSEMBLY (5-BLADE).
VIEW FROM OPERATORS SEAT.



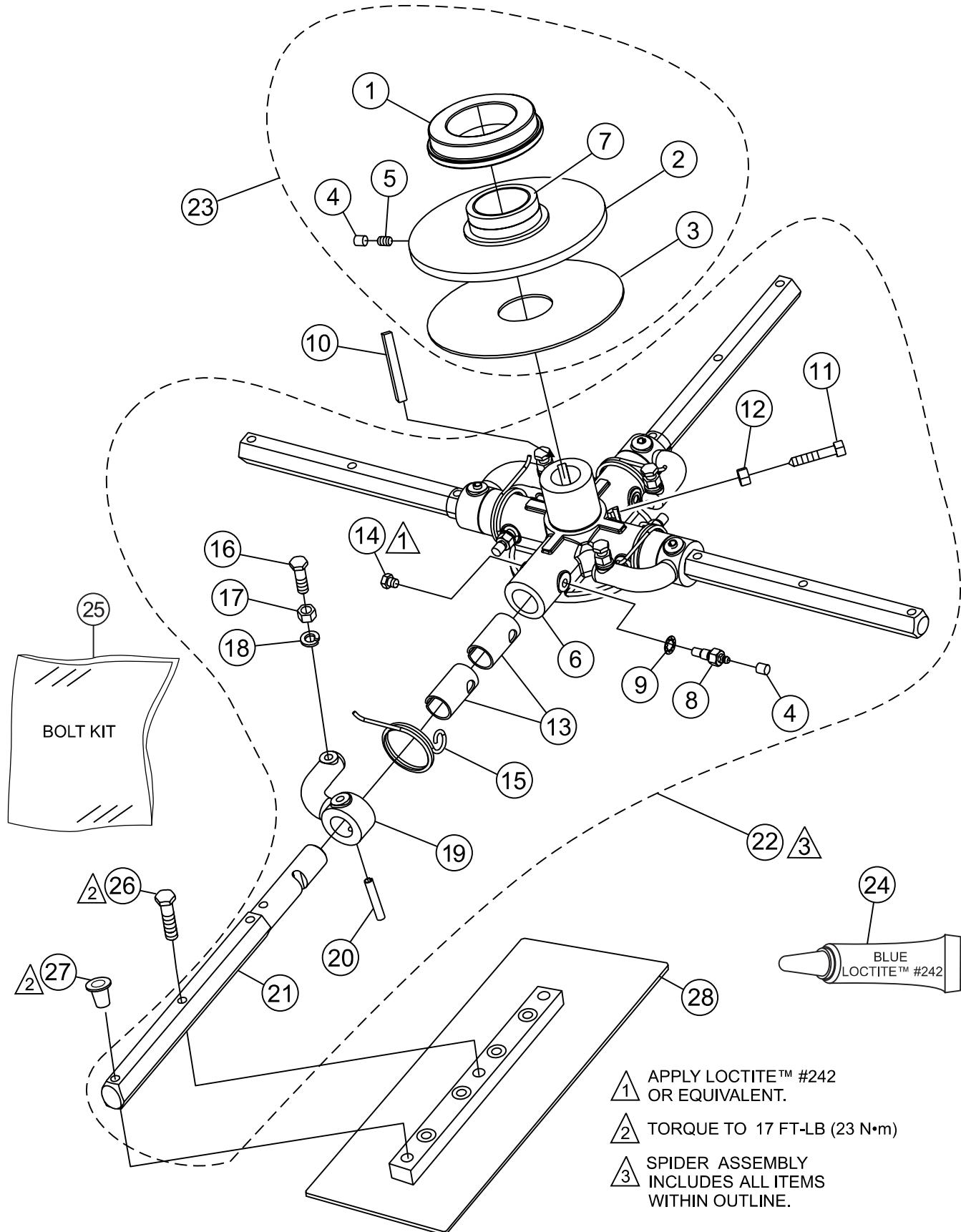
NOTES

- △ 1 APPLY LOCTITE™ #242 TO ITEMS 11, 14, AND 16
- △ 2 TORQUE TO 32.5 FT-LB (44 N•m)
- △ 3 PART OF ITEM 2

5-BLADE SPIDER ASSY. (RIGHT)

NO.	PART NO.	PART NAME	QTY.	REMARKS
1#	12779	BEARING, THRUST 6017-24S W/FLANGE	1	
2#	11431	THRUST COLLAR W/BUSHING	1	
3#	11419	PLATE, WEAR	1	
4@#	1162 A	CAP, GREASE ZERK, #2 YELLOW	6	
5#	2621	FITTING, GREASE ZERK STRAIGHT 1/4"-28	1	
6@	21208	SPIDER PLATE, 5 BLADE R.S. 1.5, SILVER	1	
7#	12316	BUSHING, THRUST COLLAR W/ HOLE	1	
8@	1322	SCREW, ARM RETAINING	5	
9@	1875	WASHER, INT. SHKP, 3/8"	5	
10	12687	KEY, 3/8" X 2" SQUARE	1	
11@	12097	SCREW, SQHS 3/8"-16 X 1-3/4" CONE GRD 8	2	
12@	1456	NUT, HEX FINISH 3/8"-16	2	
13@	11039	BUSHING, TROWEL LARGE ARM	10	
14@	11602	SCREW, HHS 3/8"-16 X 1/4"	5	
15@	2143	SPRING, RS H ARM RETURN STD. BOSS	5	
16@	0164 B	SCREW, HHC ROUNDED 3/8"-16	5	
17@	1876	NUT, HEX JAM 3/8"-16	5	
18@	0166 A	WASHER, LOCK, 3/8" MED.	5	
19@	11904-1	LEVER, TROWEL ARM, RIGHT, SILVER	5	
20@	9006	PIN, ROLL 5/16" X 2", NO PLATE	5	
21@	2829-1	ARM, TROWEL HD EXTENDED, SILVER	5	
22	12933	SPIDER ASSY. 5 BLADE R.S. 1-1/2"	1	INCLUDES ITEMS W/@
23	20938	THRUST COLLER ASSY.	1	INCLUDES ITEMS W/#
24	1477	LOCTITE™ #242 BLUE 0.5 CC BOTTLE	AR	

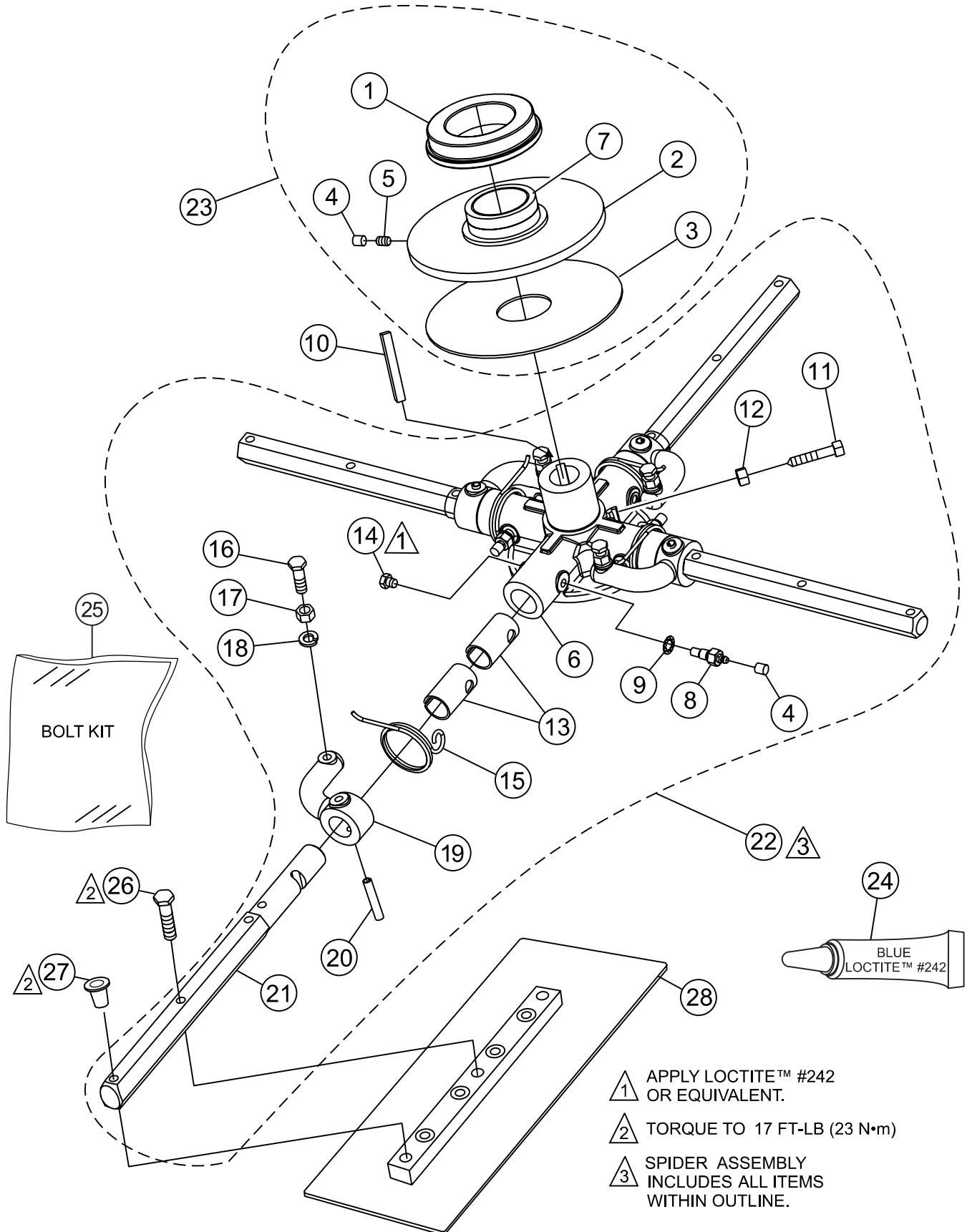
4-BLADE SPIDER ASSY. (LEFT)



4-BLADE SPIDER ASSY. (LEFT)

NO.	PART NO.	PART NAME	QTY.	REMARKS
1#	12779	BEARING, THRUST 6017-24S W/FLANGE	1	
2#	11431	THRUST COLLAR W/BUSHING	1	INCLUDES ITEMS W/\$
3#	11419	PLATE, WEAR	1	
4#@	1162 A	CAP, GREASE ZERK, #2 YELLOW	5	
5#	2621	FITTING, GREASE ZERK STRAIGHT 1/4"-28	1	
6@	11987X-SK	SPIDER PLATE, SERVICE KIT 4-BLADE MODIFIED	1	
7#\$	12316	BUSHING, THRUST COLLAR W/ HOLE	1	
8@	1322	SCREW, ARM RETAINING	4	
9@	1875	WASHER, INT. SHKP, 3/8"	4	
10	12687	KEY, 3/8" X 2" SQUARE	1	
11@	12097	SCREW, SQHS 3/8"-16 X 1-3/4" CONE GRD 8	2	
12@	1456	NUT, HEX FINISH 3/8"-16	2	
13@	11039	BUSHING, TROWEL LARGE ARM	8	
14@	11602	SCREW, HHC 3/8"-16 X 1/4"	4	
15@	11595	SPRING, LS H ARM RETURN LARGE BOSS	4	
16@	0164 B	SCREW, HHC ROUNDED 3/8"-16	4	
17@	1876	NUT, HEX JAM 3/8"-16	4	
18@	0166 A	WASHER, LOCK, 3/8" MED.	4	
19@	11903-1	LEVER, TROWEL ARM, LEFT, SILVER	4	
20@	9006	PIN, ROLL 5/16" X 2" NO PLATE	4	
21@	2829-1	ARM, TROWEL HD EXTENDED, SILVER	4	
22	12934X	SPIDER T/COLLAR ASSY., 4 BLADE, L.S.....	1	INCLUDES ITEMS W/@
23	20938	THRUST COLLAR ASSY.....	1	INCLUDES ITEMS W/#
24	60091	LOCTITE™ #242 BLUE 0.5 CC BOTTLE	AR	
25@	23643	KIT, BOLT SAE BLADE.....	1	INCLUDES ITEMS W/%
26%	22174	SCREW, HHFS, 5/16"-18 X 1-3/4" GRD 5	34	
27%	1434	PLUG, BLADE	10	
28		BLADE ASSEMBLY	4	CONTACT UNIT SALES DEPT.

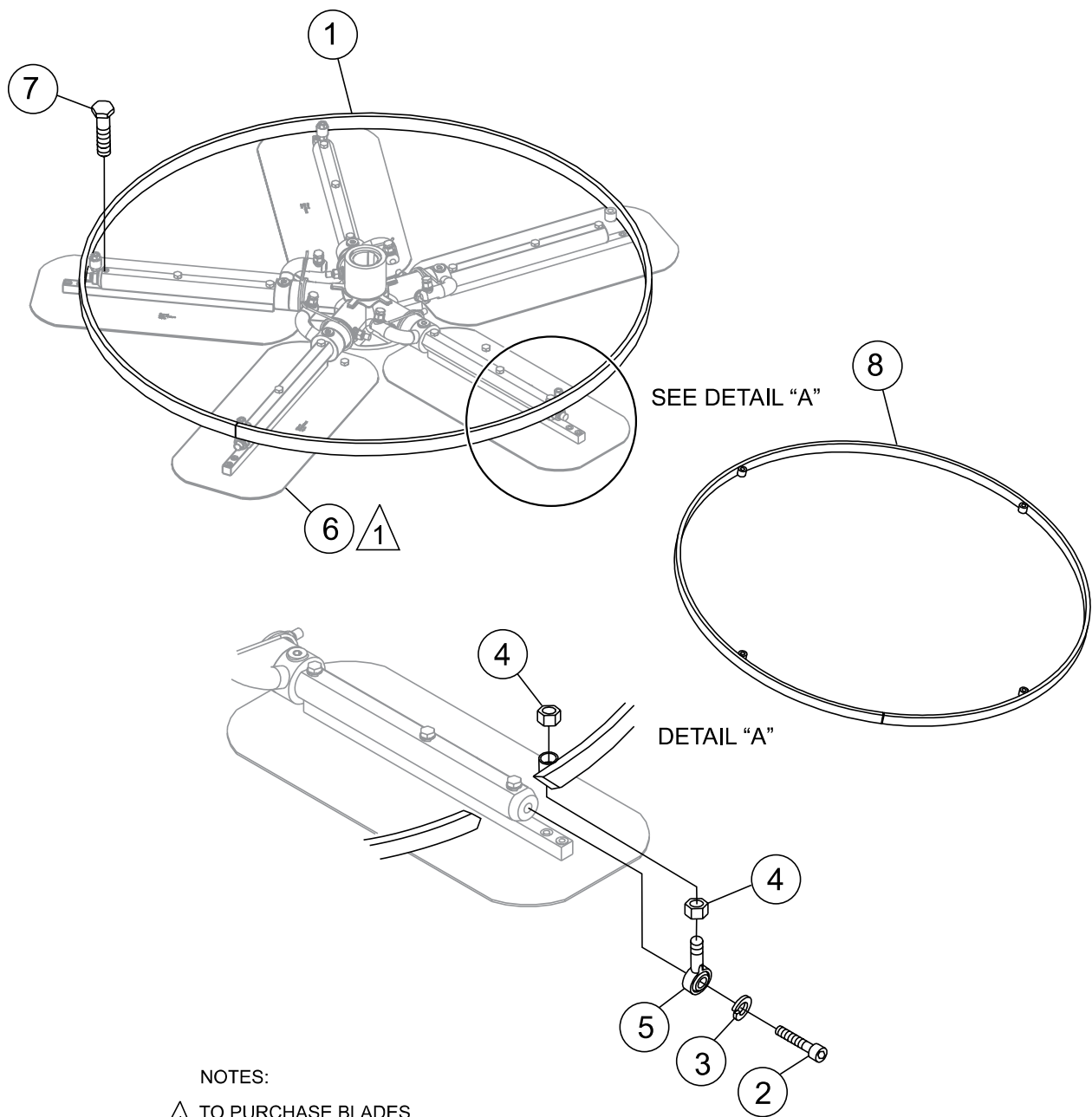
4-BLADE SPIDER ASSY. (RIGHT)



4-BLADE SPIDER ASSY. (RIGHT)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1#	12779	BEARING, THRUST 6017-24S W/FLANGE	1	
2#	11431	THRUST COLLAR W/BUSHING	1	INCLUDES ITEMS W/\$
3#	11419	PLATE, WEAR	1	
4#@	1162 A	CAP, GREASE ZERK, #2 YELLOW	5	
5#	2621	FITTING, GREASE ZERK STRAIGHT 1/4"-28	1	
6@	11987X-SK	SPIDER PLATE, SERVICE KIT 4-BLADE MODIFIED	1	
7#\$	12316	BUSHING, THRUST COLLAR W/ HOLE	1	
8@	1322	SCREW, ARM RETAINING	4	
9@	1875	WASHER, INT. SHKP, 3/8"	4	
10	12687	KEY, 3/8" X 2" SQUARE	1	
11@	12097	SCREW, SQHS 3/8"-16 X 1-3/4" CONE GRD 8	2	
12@	1456	NUT, HEX FINISH 3/8"-16	2	
13@	11039	BUSHING, TROWEL LARGE ARM	8	
14@	11602	SCREW, HHC 3/8"-16 X 1/4"	4	
15@	11594	SPRING, RS H ARM RETURN LARGE BOSS	4	
16@	0164 B	SCREW, HHC ROUNDED 3/8"-16	4	
17@	1876	NUT, HEX JAM 3/8"-16	4	
18@	0166 A	WASHER, LOCK, 3/8" MED.	4	
19@	11904-1	LEVER, TROWEL ARM, RIGHT, SILVER	4	
20@	9006	PIN, ROLL 5/16" X 2" NO PLATE	4	
21@	2829-1	ARM, TROWEL HD EXTENDED, SILVER	4	
22	12935X	SPIDER T/COLLAR ASSY., 4 BLADE, R.S	1	INCLUDES ITEMS W/@
23	20938	THRUST COLLAR ASSY.....	1	INCLUDES ITEMS W/#
24	60091	LOCTITE™ #242 BLUE 0.5 CC BOTTLE	AR	
25@	23643	KIT, BOLT SAE BLADE.....	1	INCLUDES ITEMS W/%
26%	22174	SCREW, HHFS, 5/16"-18 X 1-3/4" GRD 5	34	
27%	1434	PLUG, BLADE	10	
28		BLADE ASSEMBLY	4	CONTACT UNIT SALES DEPT.

STABILIZER RING ASSY.

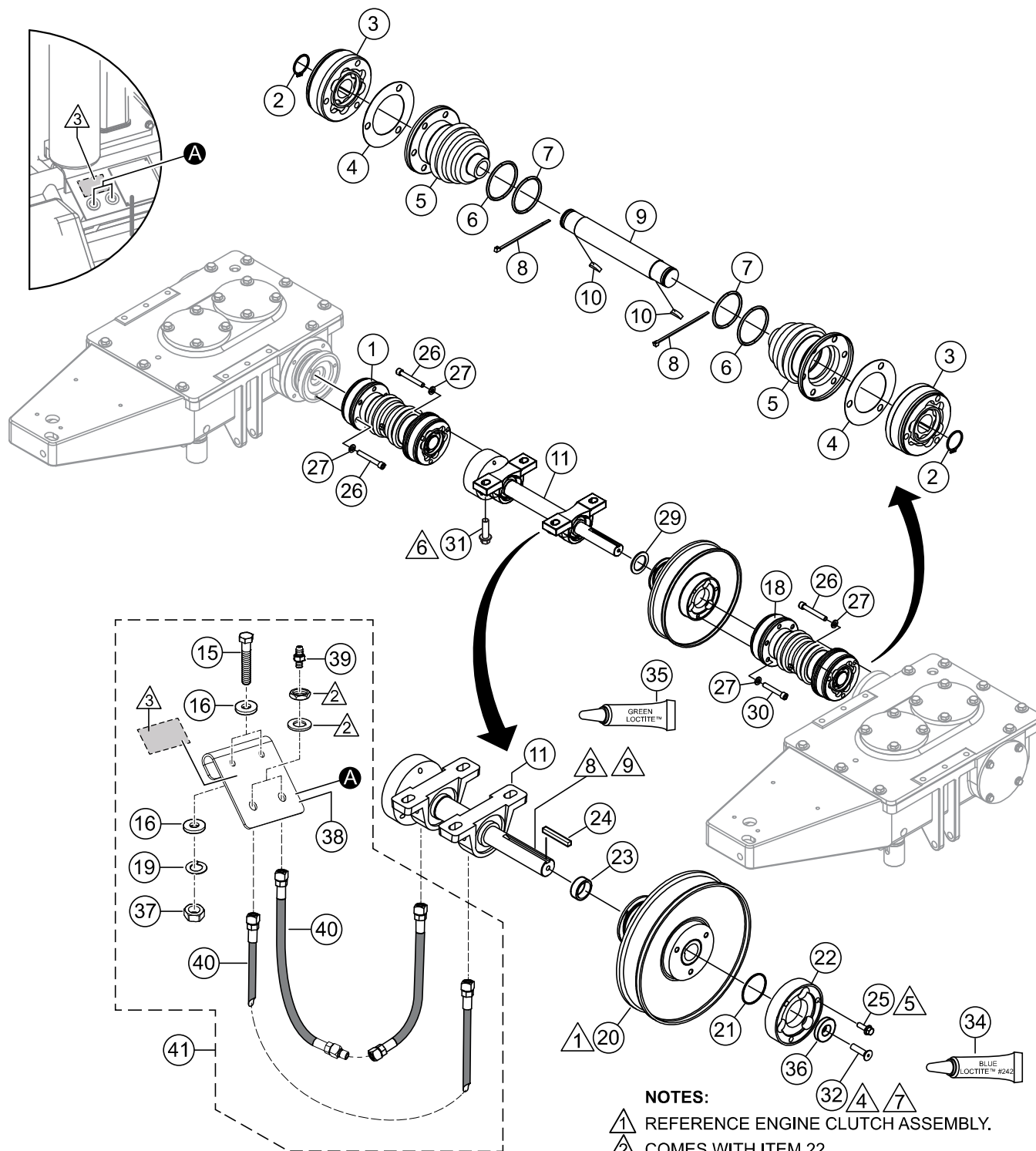


NOTES:

1 TO PURCHASE BLADES
CONTACT UNIT SALES DEPT.

STABILIZER RING ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12095	RING, STABILIZER.....	2.....	5 BLADE ONLY
2	1237	SCREW, SHC 5/16"-18 X 7/8" NYLOC	10	
3	0300 B	WASHER, FLAT, SAE 5/16"	10	
4	6014 C	NUT, HEX FINISH 5/16"-24	20	
5	1723	ROD END, 5/16"-24 MALE RH	10	
6		BLADE ASSY.	10.....	CONTACT UNIT SALES DEPT.
7	22174	SCREW, HHFS 5/16"-18 X 1-3/4" GRD 5	30	
8	9148	RING, STABILIZER.....	2.....	4 BLADE ONLY



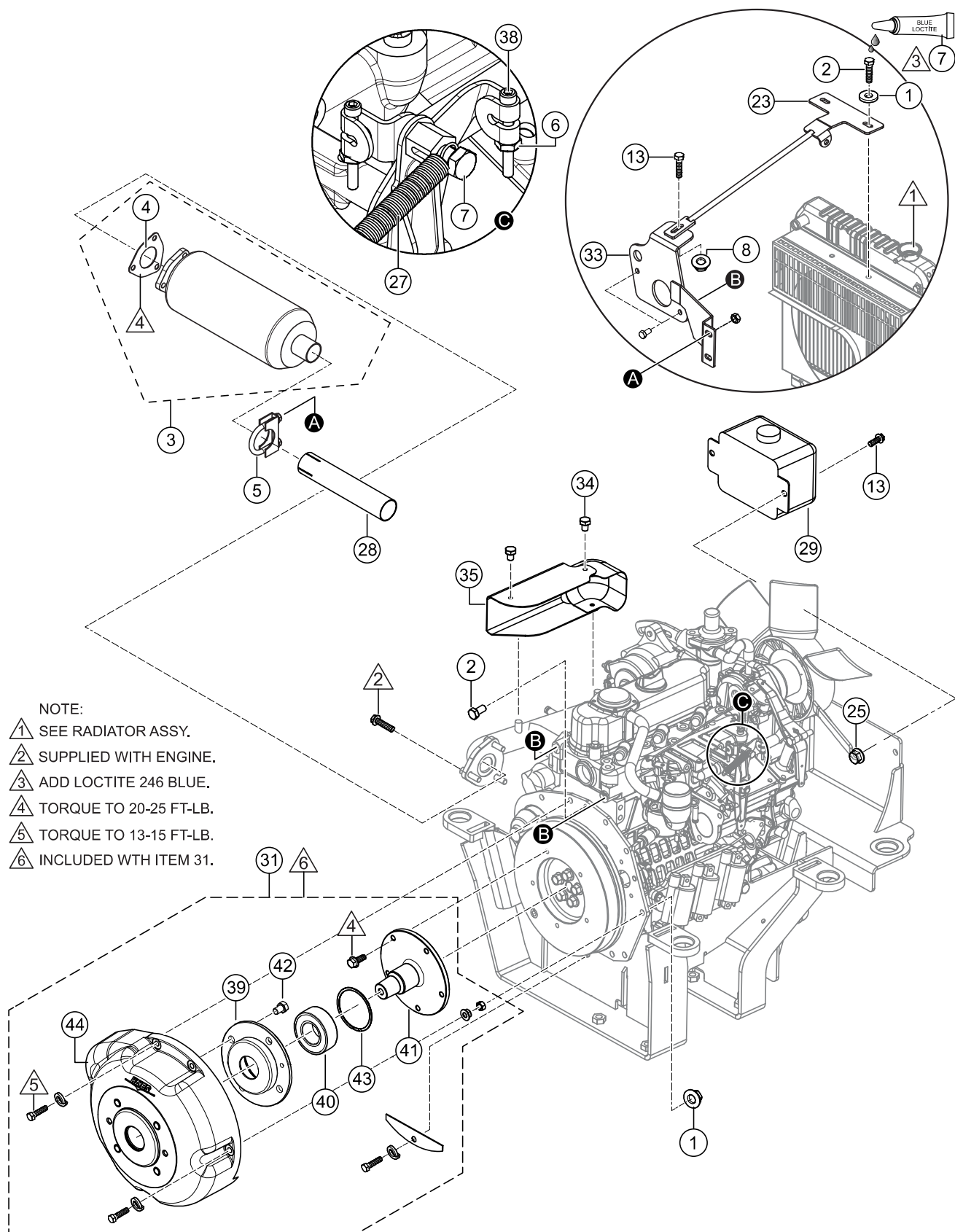
NOTES:

- ① REFERENCE ENGINE CLUTCH ASSEMBLY.
- ② COMES WITH ITEM 22.
- ③ SEE DECAL PAGE.
- ④ TORQUE TO 15 FT-LBF
- ⑤ TORQUE TO 10 FT-LBF
- ⑥ TORQUE TO 70 FT-LBF
- ⑦ ADD LOCTITE™ 242 BLUE.
- ⑧ ADD LOCTITE™ 641 GREEN.
- ⑨ ADD LOCTITE™ 7649 PRIMER.

DRIVE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	23779	SHAFT, DRIVE CV JOINT ASSY., RIGHT.....	1	INCLUDES ITEMS W/@
2@ ♦	2090	SNAP RING, 1.062 DIA. X .056	2	
3@ ♦	392052	C.V. JOINT, COUPLING	2	
4@ ♦	11108	GASKET, C.V. JOINT BOOT RIDERS	2	
5@ ♦	2259	BOOT ASSY., C.V. JOINT RIDERS	2	INCLUDES ITEMS W/#
6@# ♦	22219	O-RING, SIZE 2-228N-90 2.25 DIA. X .125	2	
7@# ♦	22220	O-RING, SIZE 2-225N-90 1.875 DIA. X .125	2	
8@ ♦	1662	TIE, CABLE TY-RAP BLACK	2	
9@ ♦	23778	SHAFT, C.V. JOINT 7.45LG	1	
10@ ♦	0126	KEY, WOODRUFF #606 3/16" X 3/4" (#9)	2	
11	30357-SK	DRIVE, CROSS SHAFT ASSY.	1	INCLUDES ITEMS W/%
15\$	0424	SCREW, HHC, 1/4"-20 X 1-1/4"	1	
16\$	0984	WASHER, FLAT SAE 1/4"	4	
18	23477	CV JOINT ASSY.	1	INCLUDES ITEMS W/♦
19\$	0181 B	WASHER, LOCK 1/4" MED.	2	
20	23363-2s	CVT, LOWER DRIVEN UNIT, SERVICE KIT	1	
21\$	20116	O-RING, SIZE-031 BUNA N	1	
22	23420	COUPLER, DRIVEN CCVT	1	
24%	20363	KEY, STEEL .188 X .250 X 2.5	1	
25	9165	SCREW, HHFS 1/4"-28 X 3/4" GRD 5	4	
26	2186	SCREW, SHC 5/16"-16 X 2-1/4"	9	
27	0161 C	WASHER, LOCK, 5/16" MED.	4	
29	11773	SHIM, SS INT NOTCH 1" ID. X 1-1/2" OD.	1	
30	0243	SCREW, SHC 5/16"-18 X 1-3/4"	3	
31	9199	SCREW, HFS, M10-1.5 X 35 GRD 8.8	4	
32%	30107	SCREW, FHSC 3/8"-16 X 1.25 LH	1	
34	1477	LOCTITE™ #242 BLUE 0.5 CC BOTTLE	AR	
35	32434	LOCTITE™ 1/2" ML GREEN	AR	
36%	2037	SPACER, CSK 1.375 DIA. X .328 DIA. X .250	1	
37\$	10024	NUT, NYLOC, 1/4"-20	2	
38\$	23924	BRACKET, REMOTE GREASE ZERK	1	
39\$	2621	FITTING, GREASE ZERK STRAIGHT 1/4"-28	2	
40\$	23943	TUBING, REMOTE GREASE LINE, W/ FITTINGS	2	
41	23947	KIT, GREASE LINE.....	1	INCLUDES ITEMS W/\$

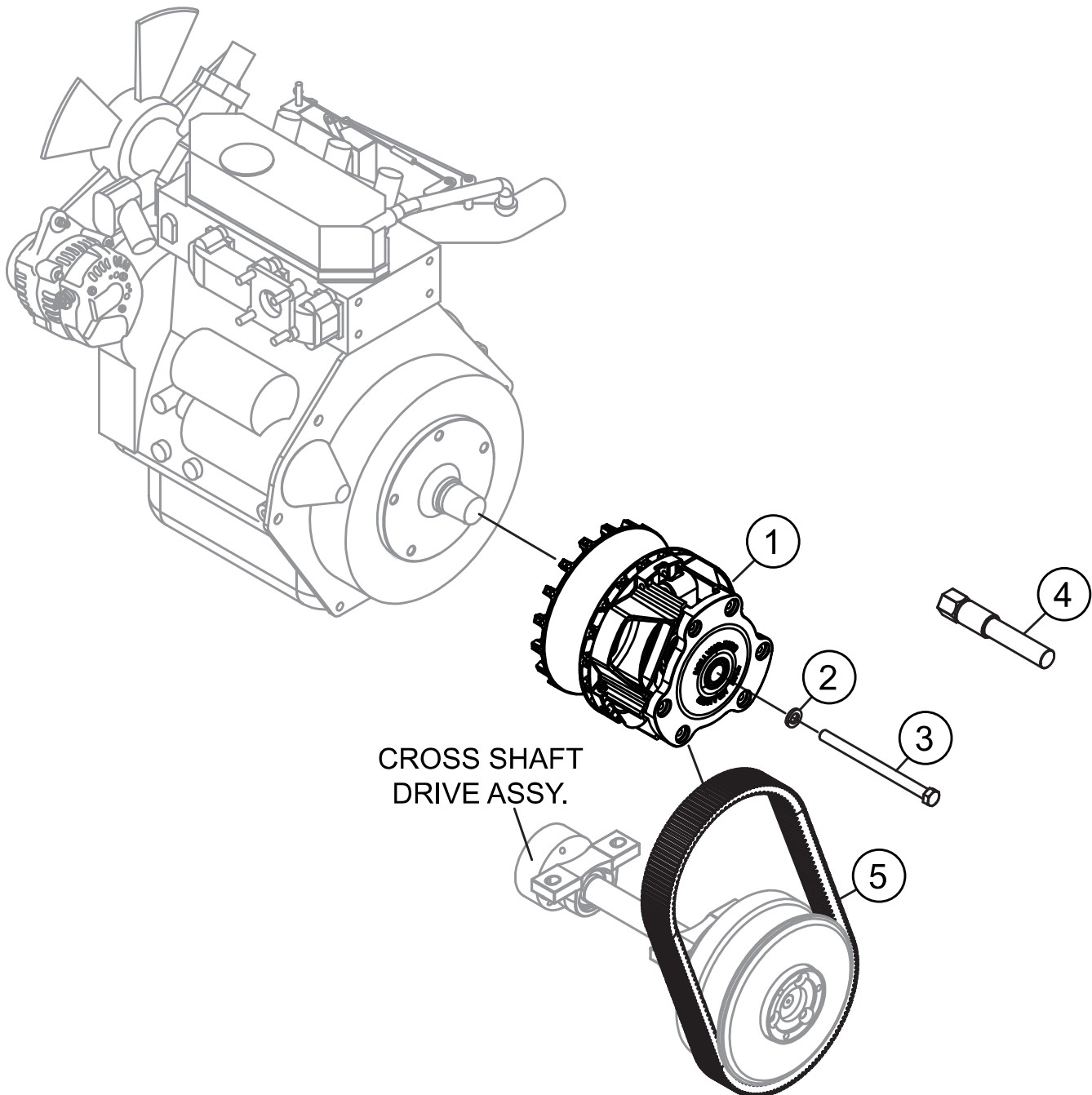
ENGINE ASSY.



ENGINE ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	0300 B	WASHER, FLAT SAE 5/16"	2	
2	2299	SCREW, HHC M8-1.25 X 16 MM	4	
3	23725-12	CATALYTIC MUFFLER, KIT	1	INCLUDES ITEMS W/\$
4\$	23725-13	GASKET, MUFFLER	1	
5	10855	CLAMP, 1-1/2" MUFFLER	1	
6	11152	NUT, NYLOC 6-32	2	
7	12464	SCREW, HHC M6-1.0 X 16 MM	1	
8	15227	NUT, HEX FLANGED M8-1.25 GRD 10	2	
13	22021	SCREW, HEX FLANGE M8-1.25 X 20 MM GRD 10.9	13	
23	23774	BRACKET, UPPER RADIATOR SUPPORT	1	
25	23802	NUT, HEX FLANGE M8-1.25 SERRATED	2	
27	23826	SPRING	1	
28	23868	TIP, MUFFLER EXTENSION	1	
29	23869	TANK, 1.0 QUART	1	
31	30352	STUBSHAFT, HAYES ASSY., WG972	1	INCLUDES ITEMS W/#
33	30430	BRACKET, MUFFLER SUPPORT	1	
34	30447	SCREW, HHC M6-1 X 8 MM	4	
35	30444	SHIELD, HEAT, WG972	1	
38	37766	SCREW, SHC 6-32 X 1.25	2	
39#	30352-01	HOUSING, BEARING	1	
40#	30352-02	BEARING, DOUBLE	1	
41#	30352-04	SHAFT, STUB	1	
42#		BOLT, 1/2" X 3/4" HHB ZD	4	NOT SOLD SEPARATELY
43#	30352-03	RING, SNAP	1	
44#		HOUSING	1	NOT SOLD SEPARATELY

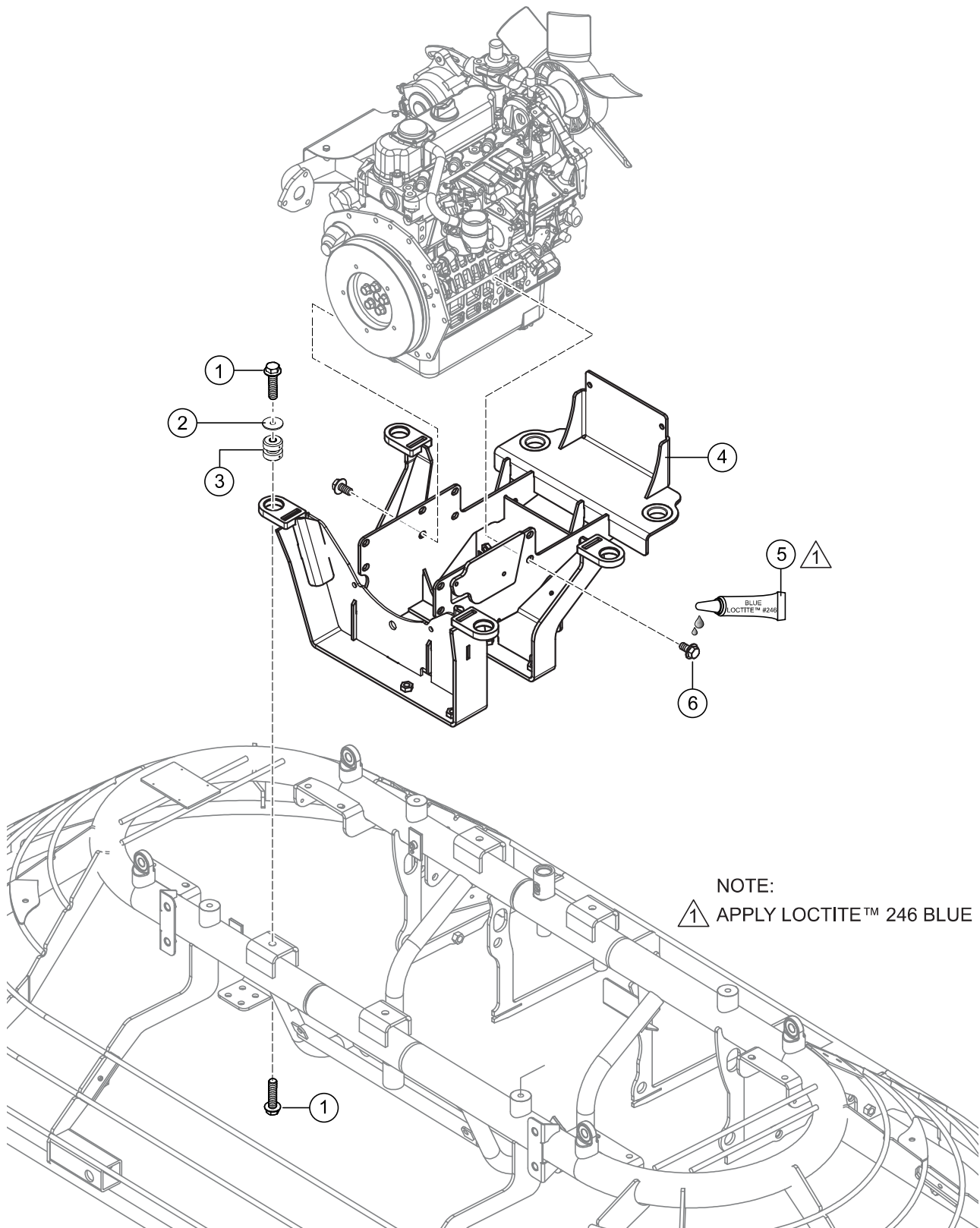
ENGINE CLUTCH ASSY.



ENGINE CLUTCH ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	32642	CLUTCH, UPPER DRIVE	1	
2	23369	WASHER, STEP-7/16" HILLIARD	1	
3	23377	SCREW, HHC 7/16"-20 X 6.5" GRD 8	1	
4	23678	PULLER, HILLIARD CVT	1	
5	23365	BELT, CVT CLUTCH	1	

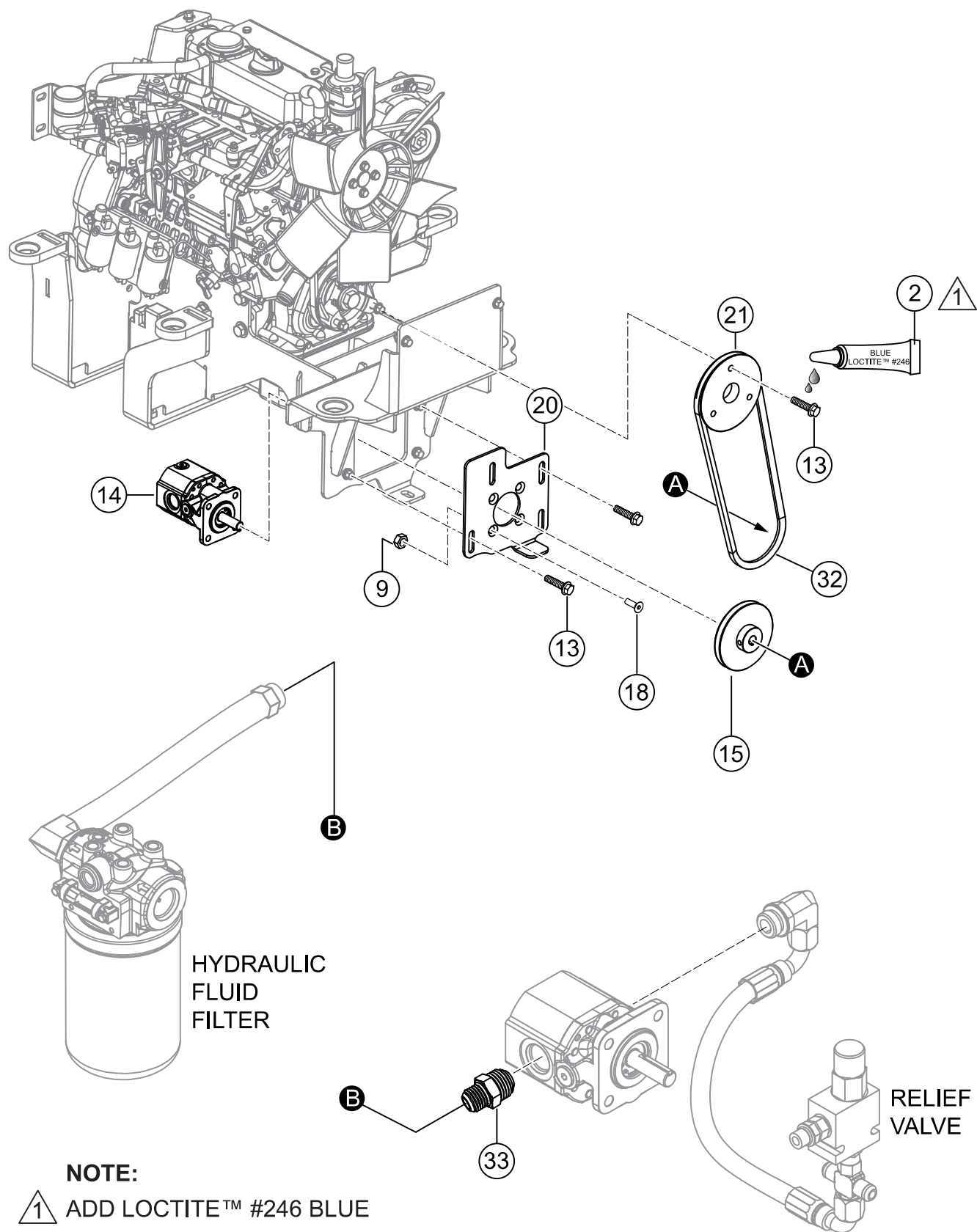
ENGINE MOUNT ASSY.



ENGINE MOUNT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	9176	SCREW, HHF M12-1.75 X 80 GRD 10.9	4	
2	20743	WASHER, ISO SNUB	4	
3	23201-2	ISOLATOR, ARMOR PLATED UNIVERSAL (RED)	4	
4	23750	MOUNT, ENGINE	1	
5	60097	LOCTITE™ #246 BLUE	AR	
6	23767	SCREW, HHF M10-1.25 X 20 MM GRD 10.9	12	
7	9161	NUT, HEX FLANGED, M12-1.75 GRD 8	4	

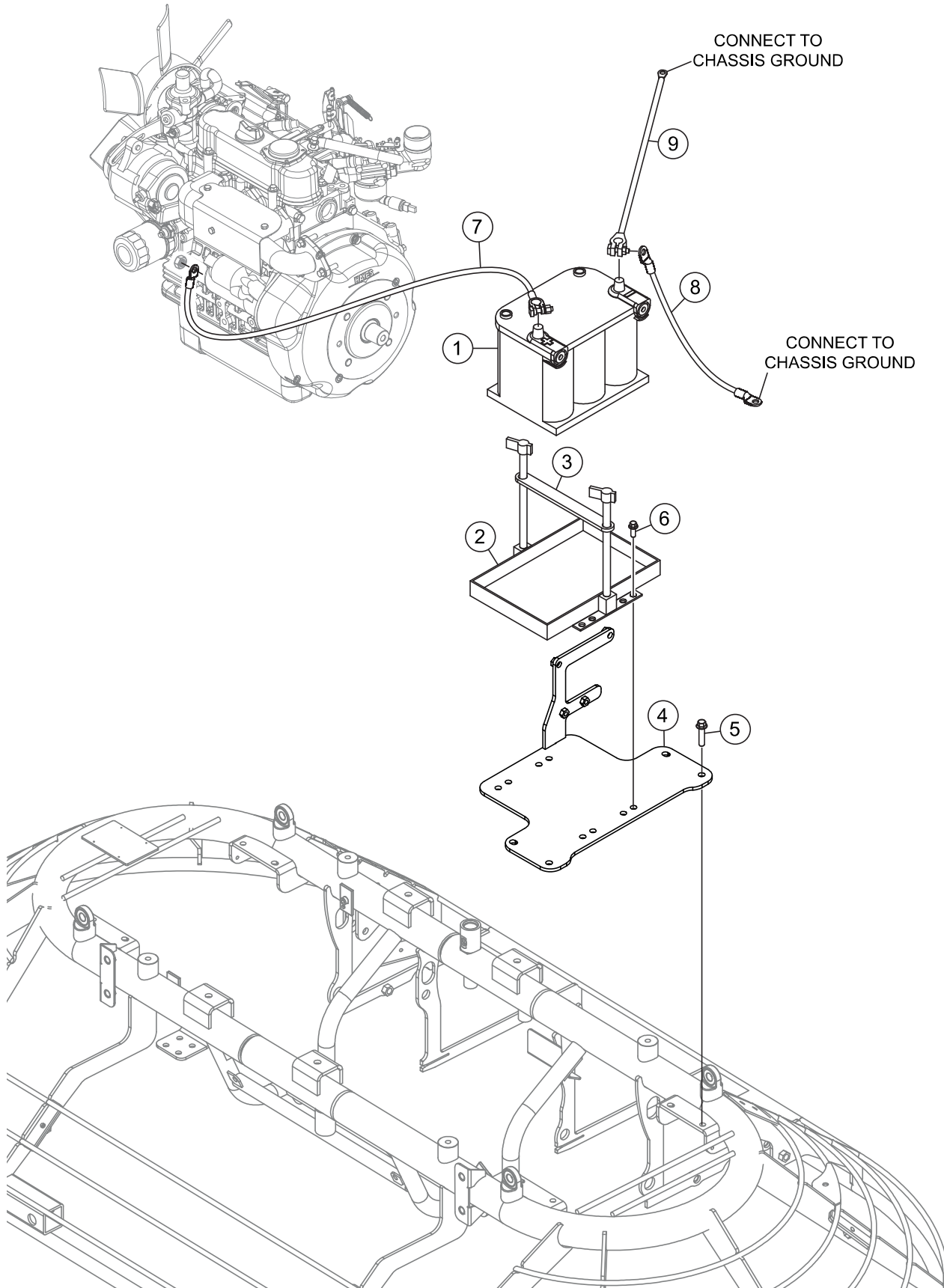
HYDRAULIC PUMP ASSY.



HYDRAULIC PUMP ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	60097	LOCTITE™ #246 BLUE	AR	
9	20440	NUT, HEX M8-1.25	4	
13	22021	SCREW, HHFS M8-1.25 X 20 MM	7	
14	23304	PUMP, HYDRAULIC, 4 BOLT	1	
15	23324	PULLEY, HYDRAULIC PUMP DRIVEN	1	
18	23746	SCREW, FHSC M8-1.25 X 20 SS	4	
20	23756	BRACKET, GEAR PUMP MOUNT	1	
21	23757	PULLEY, HYDRAULIC PUMP DRIVE	1	
32	16052	BELT, 3VX335	1	
33	32342	FITTING, STRAIGHT 10MORFS X 10MOR	1	

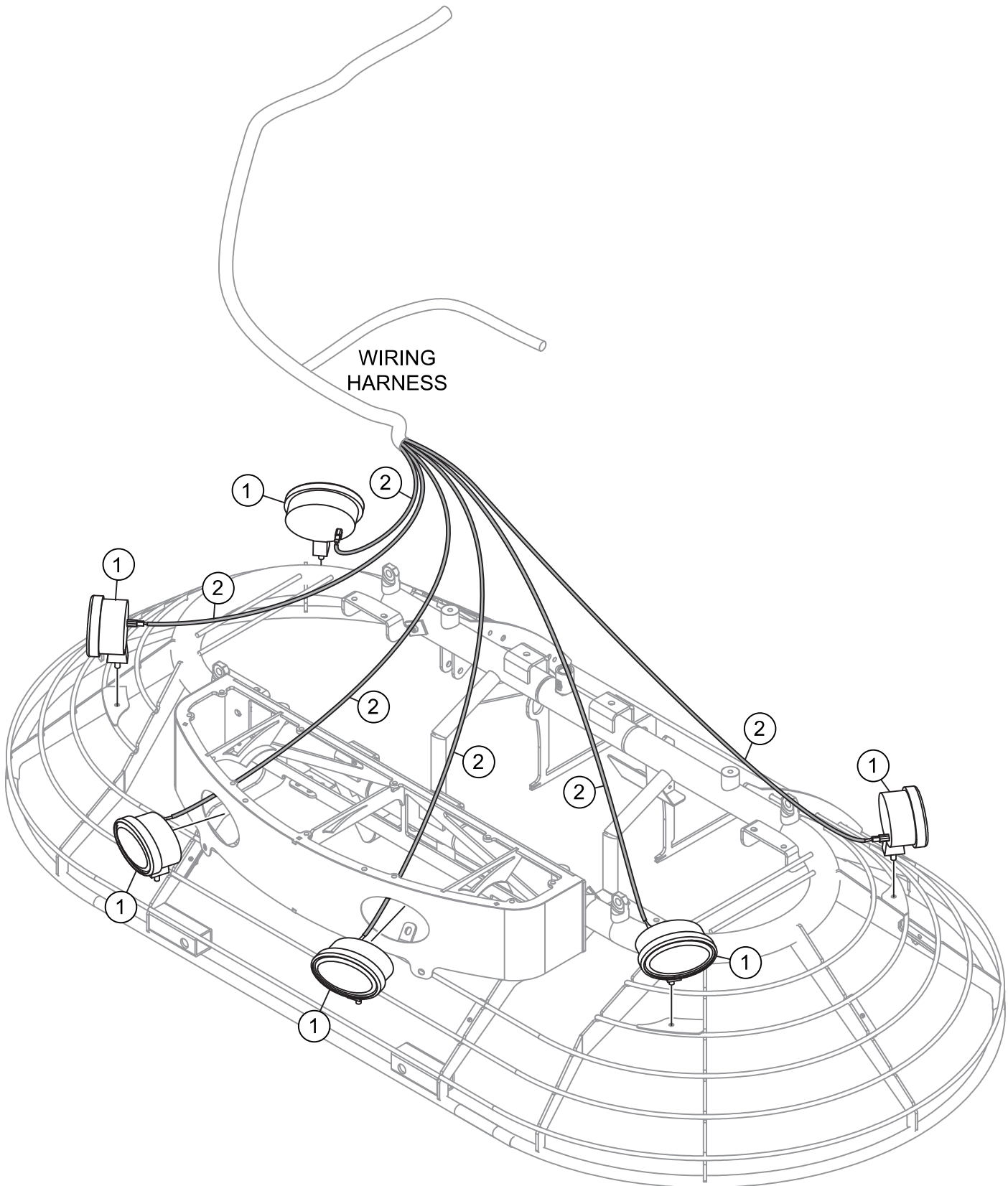
BATTERY ASSY.



BATTERY ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	404006	BATTERY, OPTIMA	1	
2	29661	TRAY, BATTERY	1	
3	23274	TIE DOWN BAR, BATTERY	1	
4	23356	PLATE, BATTERY	1	
5	22106	SCREW, HHFS 3/8"-16 X 1.25	4	
6	22021	SCREW, HHFS M8-1.25 X 20 MM	4	
7	19303	CABLE, BATTERY POS. 4GA X 48" POST	1	
8	1597	CABLE, BATTERY NEG. 4GA X 16.5"	1	
9	12278	CABLE, BATTERY NEG. POST 4GA X 32 X 3/8" RTL	1	

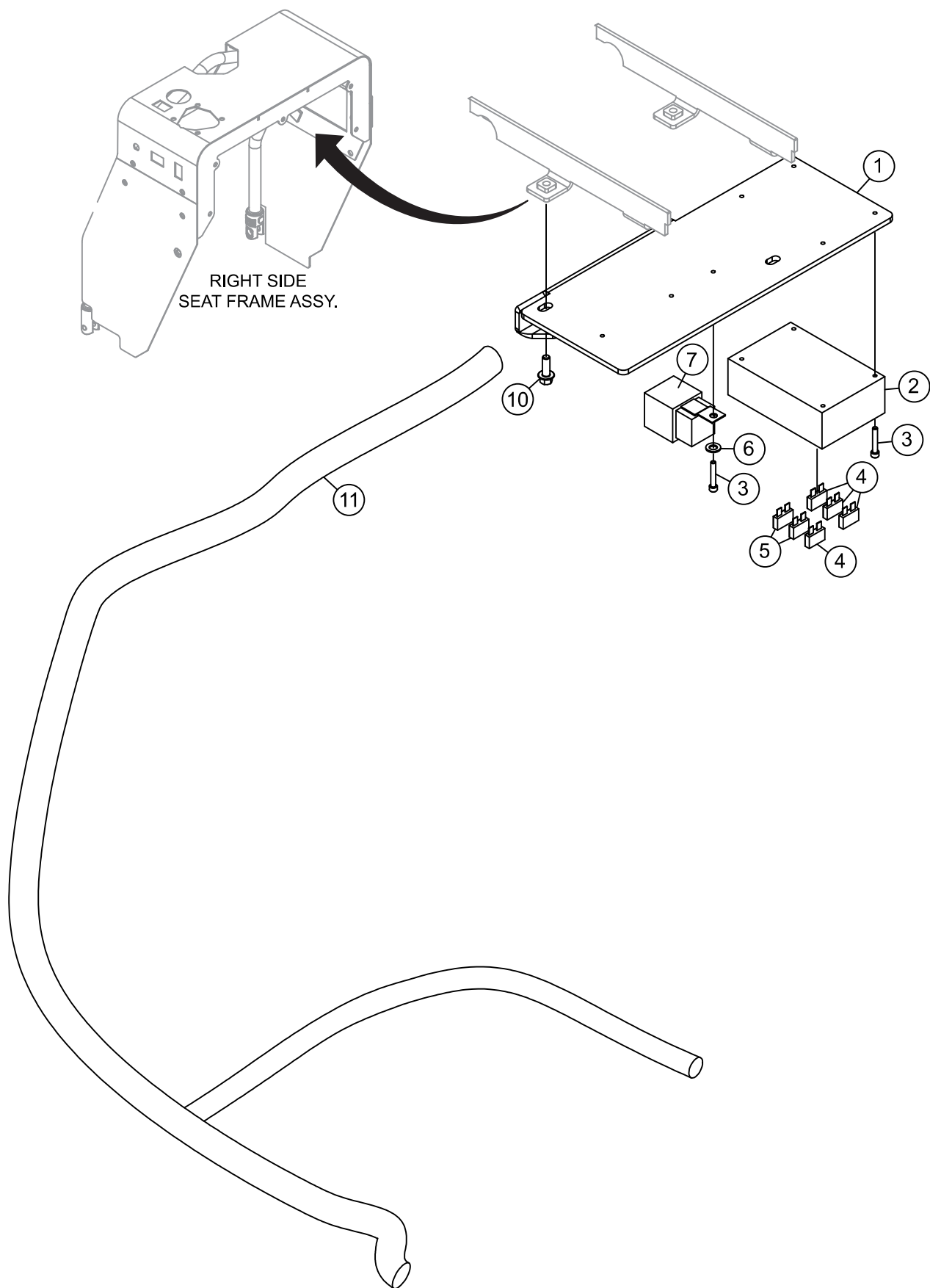
LIGHTS ASSY.



LIGHTS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	32640	LIGHT, LED 20W, OVAL	6	
2	23192	WIRE HARNESS, HELLA LIGHT	6	

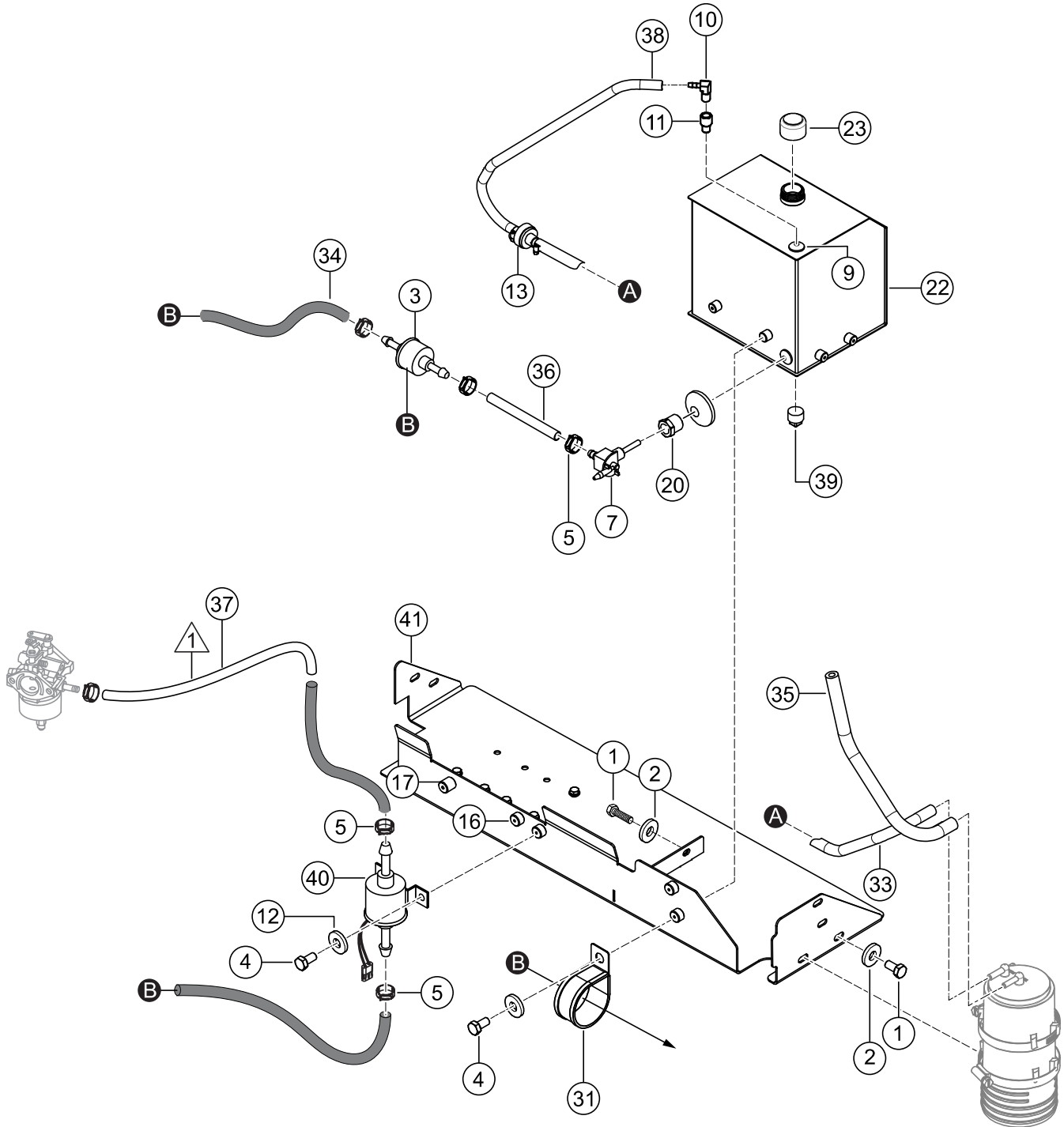
ELECTRICAL ASSY.



ELECTRICAL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	23846	PLATE, FUSE MOUNT	1	
2	22426	BLOCK, TERMINAL FUSE	1	
3	923118	SCREW, SHC 8-32 X 1	8	
4	23284-030	FUSE, 3 AMP. ATC/ATO	4	
5	23284-050	FUSE, 5 AMP. ATC/ATO	2	
5A	23284-075	FUSE, 7.5 AMP. ATC/ATO	1	
5B	23284-150	FUSE, 15 AMP. ATC/ATO	2	
5C	23284-200	FUSE, 20 AMP. ATC/ATO	1	
6	2203	WASHER, FLAT, #10	1	
7	12017	RELAY, KILL	4	
10	49048	SCREW, HHFS 1/4"-20 X 3/4" GRD 5	2	
11	23853	HARNESS, WIRING, MAIN FRAME	1	

FUEL TANK ASSY.



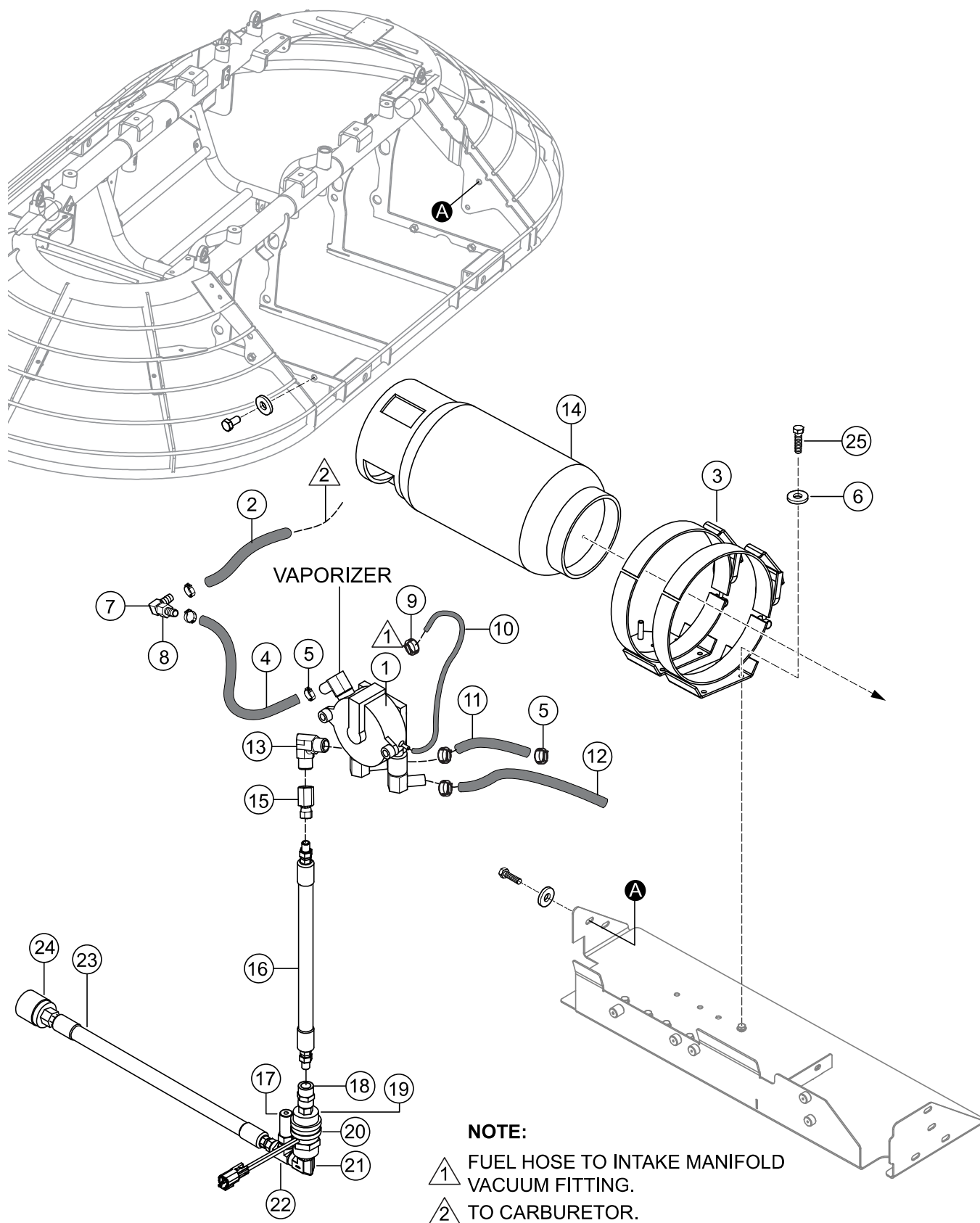
NOTE:

1 TO CARBURETOR PURGE PORT CONNECTION.

FUEL TANK ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	2866	SCREW, HHC M8-1.25 X 20MM GRD 8	4	
2	933213	FENDER 5/16" X 1 ZN	4	
3	23725-16	FILTER, FUEL	1	
4	12464	SCREW, HHC M6-1.0 X 16 MM	5	
5	22067	CLAMP, STEPLESS EAR 1/4 HOSE #13.8	12	
7	22081	SHUTOFF VALVE, 1/4 NPT, 1/4 HOSE	1	
9	23507	GROMMET, ROLL OVER VALVE	1	
10	22082	FITTING, BRASS 90 4BARB -1/4MP	1	
11	32591	FITTINGS, BRASS 1/4 NPT X .063" ORIF.	1	
12	25334	WASHER, FLAT 1/4 USS	5	
13	23725-19	2-WAY CHECK VALVE	1	
16	30013	BOSS, THREADED, M6 X 1.0	1	
17	30415	BOSS, M6, 1" LONG	1	
20	30384	FITTING, 1/4 MNPT X 1/4 FNPT	1	
22	30386	FUEL TANK, GASOLINE 9.5 GAL	1	
23	30422	CAP, RATCHET W/ GAUGE, GAS	1	
31	29796	CLAMP, LOOP 2.0" X .53 HOLE	1	
33	60013	HOSE, FUEL .250 D 50 PSI LOW PERM, 1.2'2.....	1PC=1FT	
34	60013	HOSE, FUEL .250 D 50 PSI LOW PERM, 1.5'2.....	1PC=1FT	
35	60013	HOSE, FUEL .250 D 50 PSI LOW PERM, 3.4'4.....	1PC=1FT	
36	60013	HOSE, FUEL .250 D 50PSI LOW PERM, 0.5'1.....	1PC=1FT	
37	60013	HOSE, FUEL .250 D 50 PSI LOW PERM, 1.8'2.....	1PC=1FT	
38	60013	HOSE, FUEL .250 D 50 PSI LOW PERM, 1.5'2.....	1PC=1FT	
39	911329	FITTING, PLUG,MAGNETIC, 3/8" NPT	1	
40	30433	PUMP, FUEL ASSEMBLY	1	
41	30362	TRAY, DUAL FUEL	1	

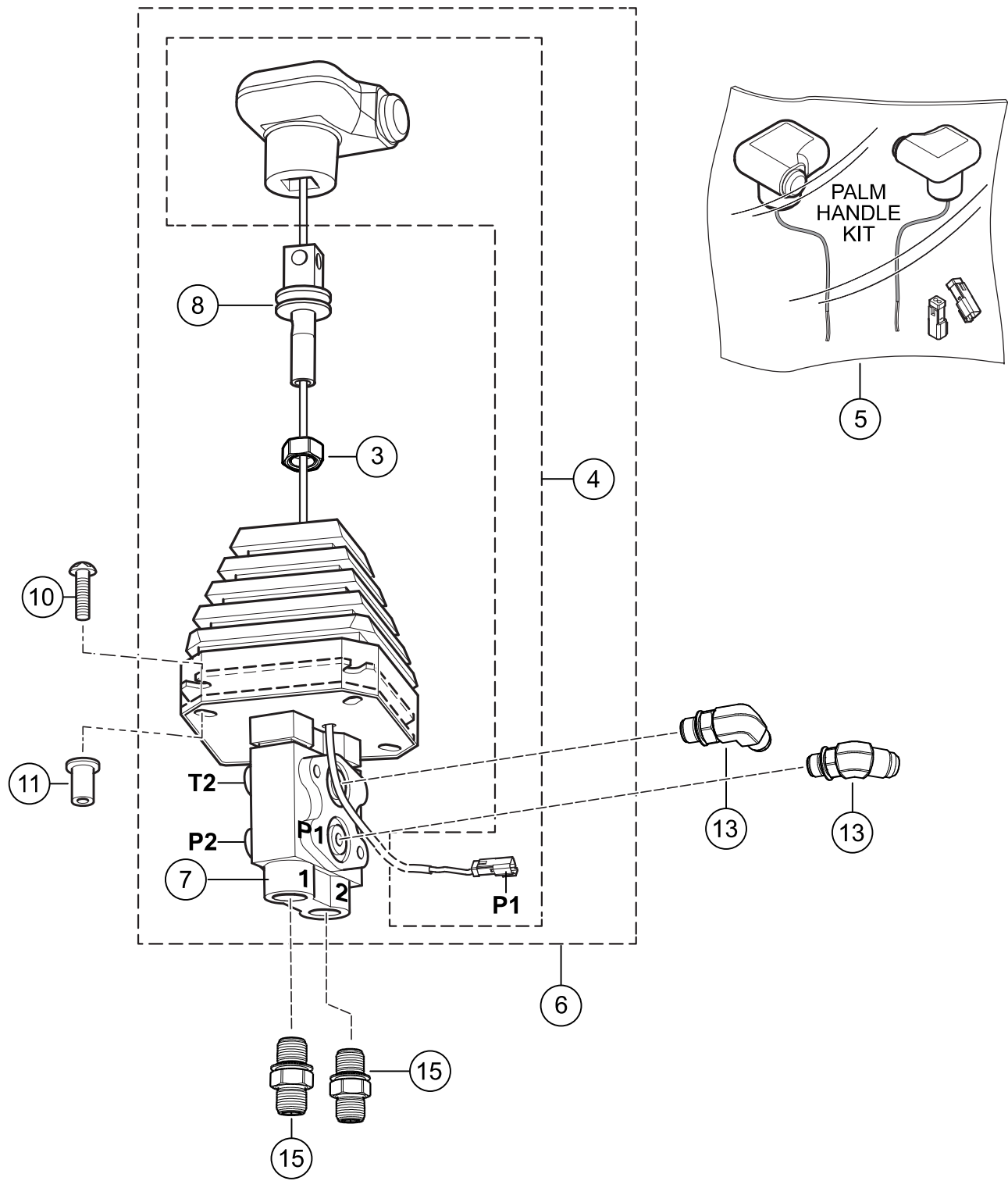
LPG TANK ASSY.



LPG TANK ASSY.

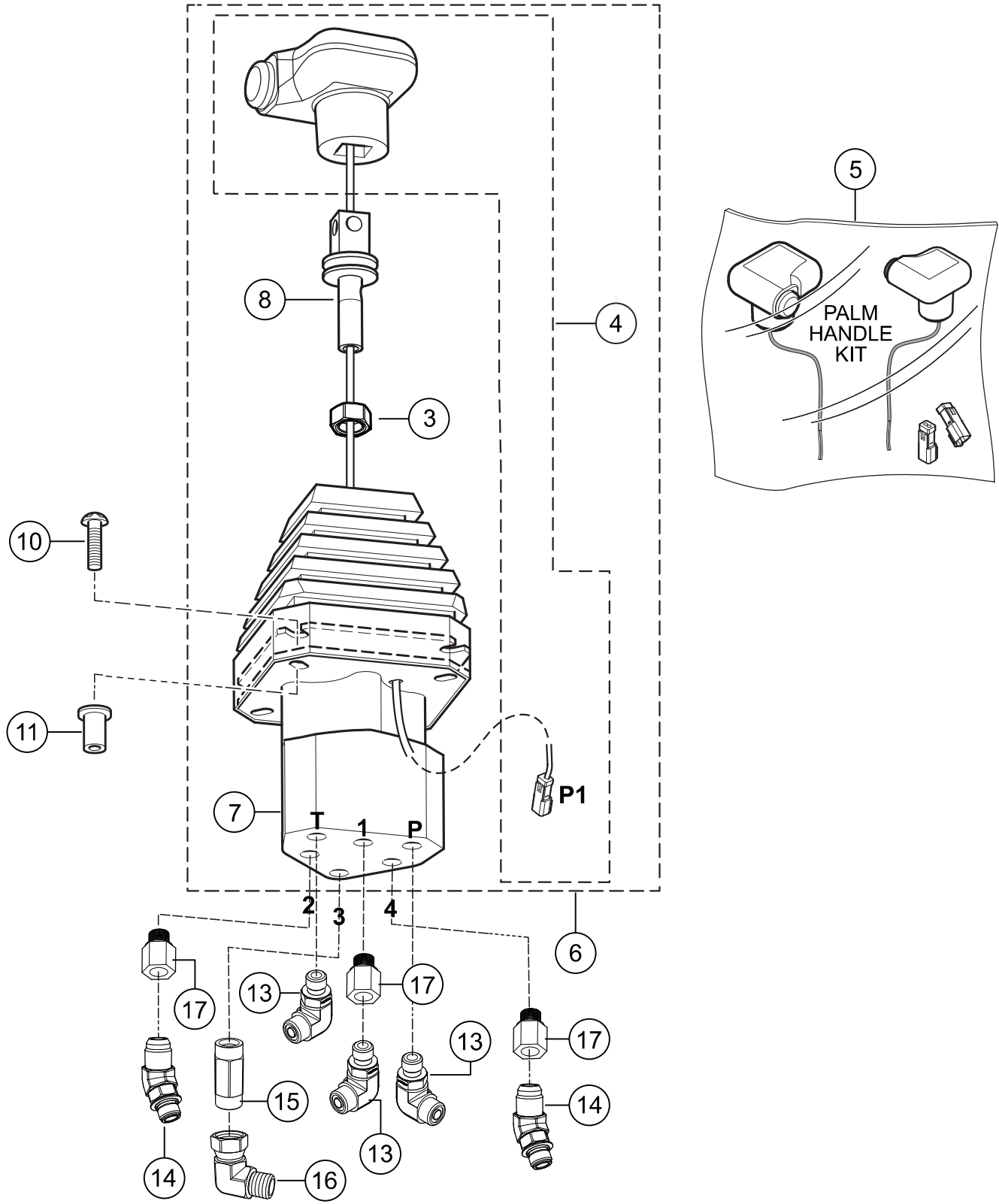
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	23725-09	VAPORIZER ASSEMBLY	1	
2	60072	HOSE, FUEL Ø.50 LOW PERM 35 PSI .34'	1	1PC=1FT
3	30427	BRACKET, PROPANE, LOW PROFILE	1	
4	60072	HOSE, FUEL Ø.50 LOW PERM 35 PSI .46'	1	1PC=1FT
5	32834	CLAMP, OETIKER STEPLESS EAR - 20 MM	6	
6	21707	WASHER, FLAT-3/8" NORDLOC	8	
7	32835	FITTINGS, 90° BRASS 1/2" BARB X 3/8" MNPT	1	
8	32836	FITTINGS, STRAIGHT BRASS 1/2" BARB X 3/8" FNPT	1	
9	22066	CLAMP, STEPLESS EAR 3/16"	2	
10	60004	HOSE, FUEL .187 DIA. 50PSI LOW PERM	1	1PC=1FT
11	30025	HOSE, HOT WATER, .375 DIA. 200 PSI 1.34'	1	1PC=1FT
12	30025	HOSE, HOT WATER, .375 DIA. 200 PSI .84'	1	1PC=1FT
13	32833	FITTING, 90°-4MJX-4MBSPT	1	
14	30006	TANK, PROPANE, 33.5# FORKLIFT, STYLE	1	
15	32832	FITTING, STR -4FJX-4FP	1	
16	32826	HOSE ASSEMBLY, 1/4" ID. LPG X 20.5", 2 X 1/4MP	1	
17	42200	VALVE, PRESSURE RELIEF-LP	1	
18	46106	FITTING, COUPLING 1/4" FP X 1/4" FP	1	
19	30434	SOLENOID, PROPANE ASSEMBLY	1	
20	30017	CLAMP, LOOP CUSHIONED #20 0.25 HOLE	1	
21	8053	FITTING, 90° 1/4MP X 1/4FP	1	
22	26260	FITTING, TEE 1/4MP-1/4FP-1/4FP RUN	1	
23	32830	HOSE ASSY., 1/4" ID LPG X 14.0", 2 X 1/4MP	1	
24	30007	CONNECTOR, FORKLIFT PROPANE TANK, FEMALE	1	
25	30449	SCREW, HHC, M10-1.5 X 30MM		

LEFT-HAND VALVE ASSY.



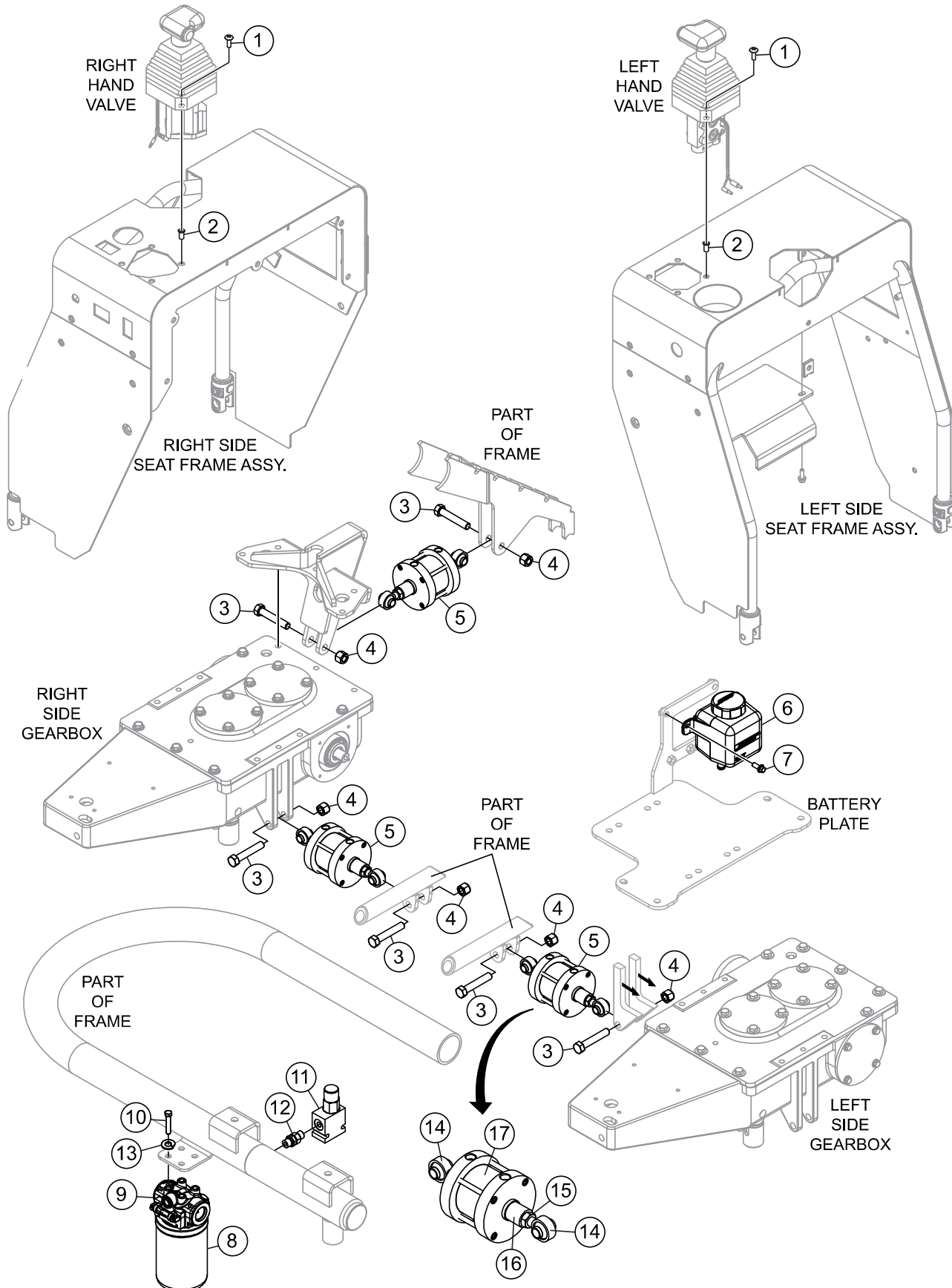
LEFT-HAND VALVE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
3#	16083	NUT, HEX M12-1.75 NO PLATE	1	
4#	20150	KIT, PALM HANDLE LEFT, W/SWITCH	1	
5	20165	KIT, PALM HNDL W/TOGGLE SWITCH	1	
6	20831	VALVE, LH STRG W/SWITCH ASSEMBLY	1	INCLUDES ITEMS W/#
7#	20833	VALVE, LH STEERING	1	
8#	21053	ADAPTOR, LH PALM HANDLE	1	
10	42325	SCREW, BHSC, M6-1.0 X 20, FLANGED	4	
11	19266	NUT, BLIND 1/4-20 X .027-.165	4	
13	32354	FITTING, 90 -MORFS X -6MOR	2	
15	32341	FITTING, STR -6MORFS X -6MOR	2	



RIGHT-HAND VALVE ASSY.

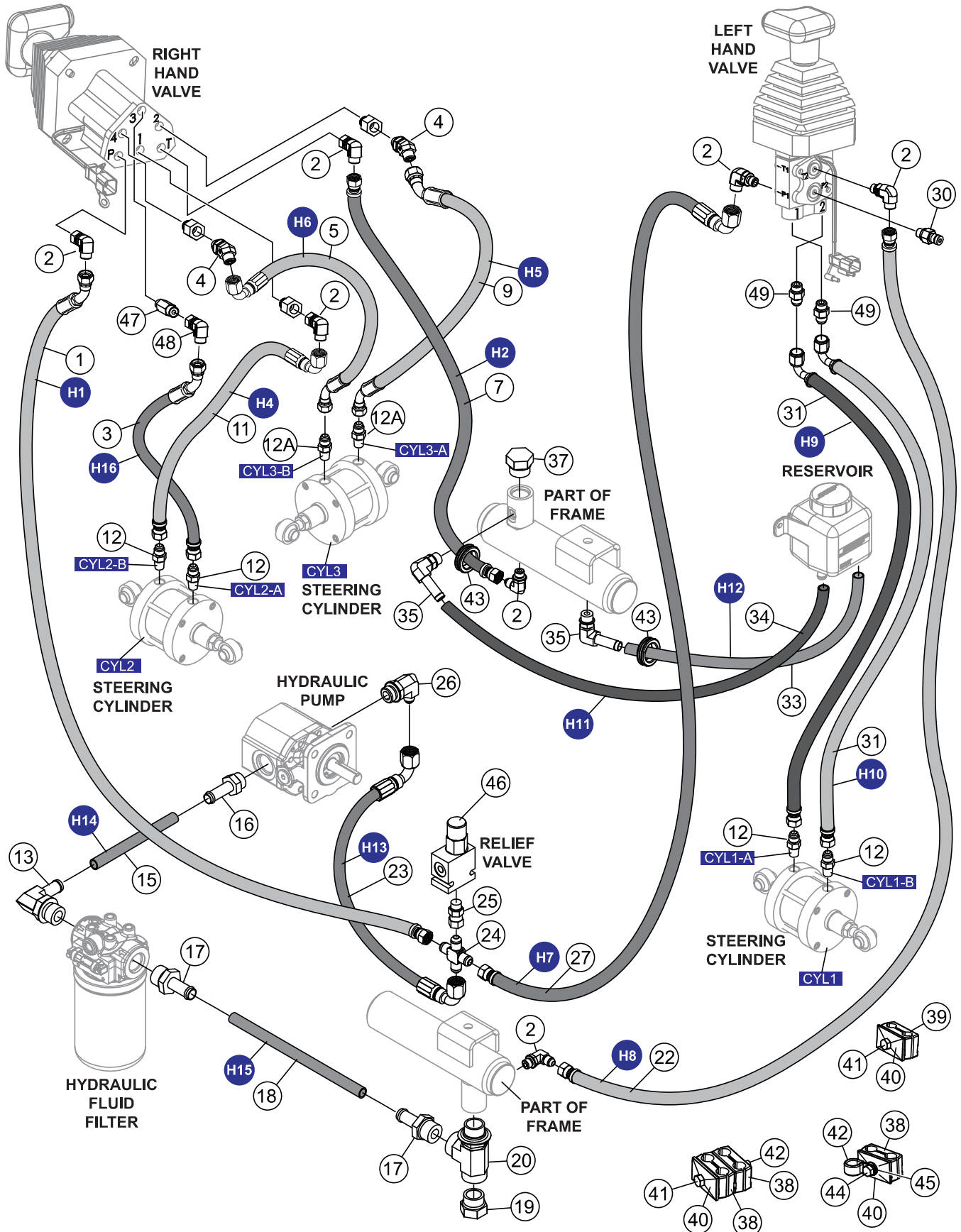
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
3#	16083	NUT, HEX M12-1.75 NO PLATE	1	
4#	20155	KIT, PALM HANDLE RIGHT, W/SWITCH	1	
5	20165	KIT, PALM HANDLE W/TOGGLE SWITCH	1	
6	20829	VALVE, RH STEERING W/SWITCH ASSY.....	1	INCLUDES ITEMS W/#
7#	20832	VALVE, RH STEERING	1	
8#	20834	ADAPTER, PALM HANDLE	1	
10	42325	SCREW, BHSC, M6-1.0 X 20, FLANGED	4	
11	19266	NUT, BLIND 1/4-20 X .027-.165	4	
13	32354	FITTING, 90 -6MORFS X 6 MOR	3	
14	32431	FITTING, 45 6MORFS X 6 MOR	2	
15	32454	FITTING, STR 6MORFS X 6MORFS LONG	1	
16	32256	FITTING, 90 6FORFS X 6MORFS	1	
17	21114	FITTING, STR 6FO-6MO STX-55J6	3	



HYDRAULIC STEERING MOUNTING ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12287	SCREW, THP 1/4-20 X 3/4" SS	8	
2	19266	NUT, BLIND 1/4-20 X 10GA	8	
3	12402	SCREW, HHC 1/2-13 X 2-1/2"	6	
4	16629	NUT, NYLOC 1/2-13 GD 8	6	
5	23262	CYLINDER, HYDRAULIC STEERING ASSY.....	3	INCLUDES ITEMS W/@
6	37213	RESERVOIR, 350 ML, HYDROGEAR 71327	1	
7	22021	SCREW, HHFS M8-1.25x20MM TENSIOK PATCH	2	
7A	23802	NUT, HEX FLANGE M8-1.25 SERRATED	2	
8	23275-02	ELEMENT, 10 MICRON FILTER	1	
9	23275-04	HEAD, 4" FILTER W/ INDICATOR, 5PSI BYP	1	
10	4196	SCREW 3/8-16 X .75	4	
11	23034	VALVE, PILOT OPERATED RELIEF	1	
12	23265	COUPLING, 6MO-6MO	1	
13	0166 A	WASHER, LOCK 3/8MD	4	
14@	23260	ROD END, 1/2-20 M RH W/CUSTOM BALL	6	
15@	11146	NUT, HEX JAM 1/2-20 PLATED	6	
16@	23261	SPACER, HHX STEERING CYLINDER	3	
17@	12056	CYLINDER, 2.5" BORE X 1.5" STROKE X .75" ROD	3	

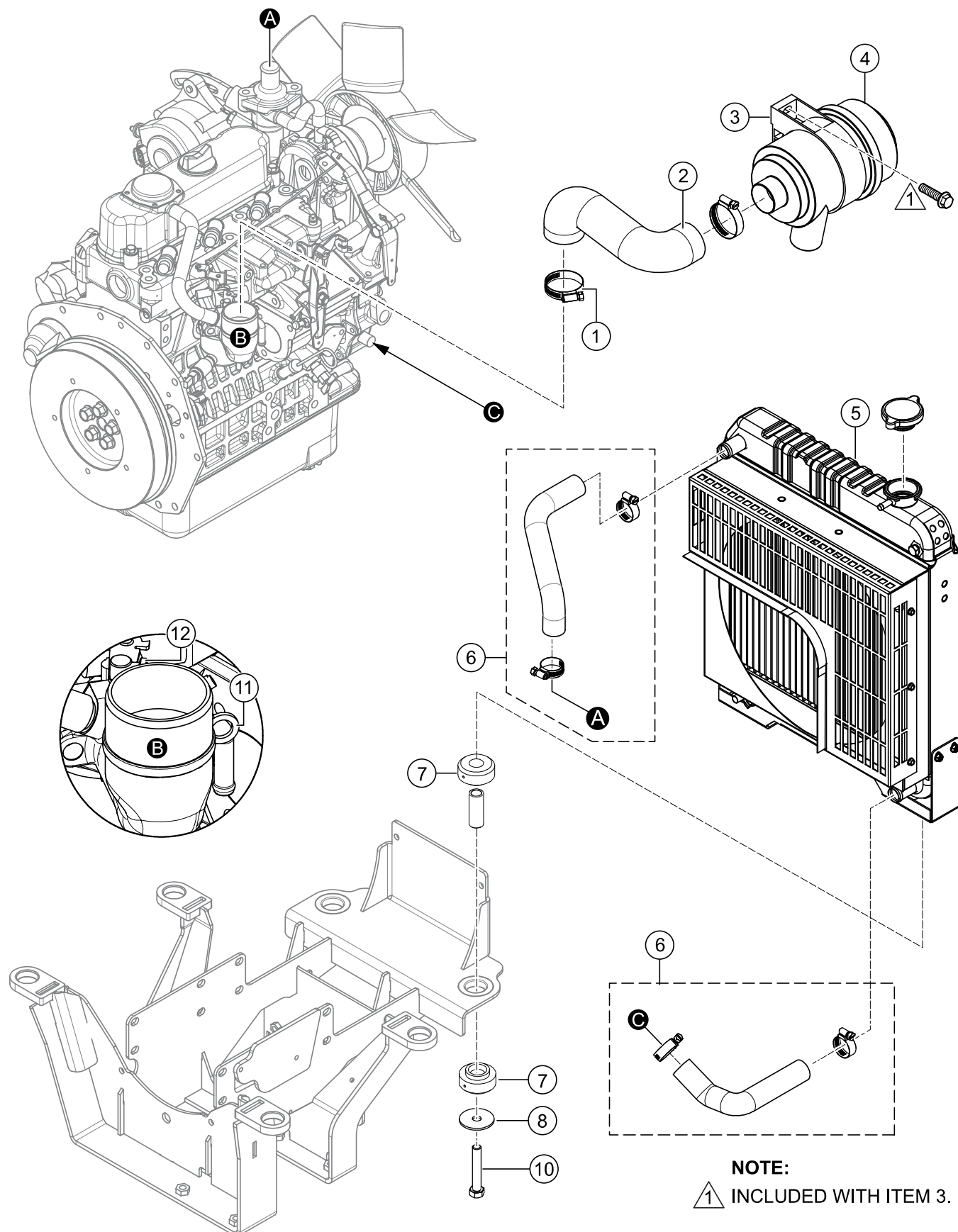
HYDRAULIC STEERING ASSY.



HYDRAULIC STEERING ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	32615	HOSE ASM, 3/8 ID X 48.44" 6FORFS45 X 6FORFS STR	1	
2	32354	FITTING, 90 -6MORFS x -6MOR	7	
3	32617	HOSE ASSY, 3/8IDX 47.56 X 6FORFS45 X 6FORFS STR	1	
4	32431	FITTING, 45 6MORFS x 6 MOR	2	
5	32625	HOSE ASM, 1/4 ID X 60.00" 4FORFS 90 X 6FORFS 45	1	
7	32621	HOSE ASM, 3/8 ID X 61.63" 6FORFS STR X 6FORFS STR	1	
9	32626	HOSE ASM, 1/4 ID X 63.00" 4FORFS 45 X 6FORFS 45	1	
11	32616	HOSE ASM, 3/8 ID X 48.0" 6FORFS90 X 6FORFS STR	1	
12	32350	FITTING, STR -6MORFS x 1/4MP	4	
12A	32619	FITTING, 90, 4MORFS X 1/4 MNPT	2	
13	32363	FITTING, 90 12MOR x 10MORFS	1	
15	32671	HOSE ASSY, 3/4IDX14.38"10FORFSX10FORFS90	1	
16	32342	FITTING, STR -10MORFS x -10MOR	1	
17	32343	FITTING, STR -12MORFS x -12MOR	2	
18	32670	HOSE ASSY, 3/4 ID X 9.75"12FORFSX12FORFS	1	
19	23271	FITTING, PLUG 12MO MAG	1	
20	23264	FITTING, TEE 12MO-12FO-12FO RUN	1	
22	32623	HOSE ASM, 3/8 ID X 50.38" 6FORFS STR X 6FORFS STR	1	
23	32669	HOSE ASSY, 3/8IDX13" 6FORFS X 6FORFS45	1	
24	32630	FITTING, CROSS, 6MORFS	1	
25	32633	STR 6FORFS x 6MOR REF FS6540-06-06	1	
26	32667	FITTING, 90 6MORFS x 10MOR	1	
27	32622	HOSE ASM, 3/8 ID X 56.88" 6FORFS90L X 6FORFS STR	1	
30	12147	FITTING, QD 6MO DIAGN PARKER PD361	1	
31	32624	HOSE ASM, 3/8 ID X 43.31" 6FORFS 90 X 6FORFS STR	2	
33	23247-01	HOSE, LOW PRESSURE GPH-8, 2.1'	1.....	1PC=1FT
34	23247-01	HOSE, LOW PRESSURE GPH-8, 1.6'	1.....	1PC=1FT
35	23266	FITTING, 90 6MO-8BEAD	2	
37	368657	FITTING, PLUG 12MO	1	
38	37421	5/8" CLAMP, BEHRINGER T2062-PP	6	
39	37420	1/2" CLAMP, BEHRINGER T2050-PP	2	
40	37424	COVER PLATE, BEHRINGER TCP-12	6	
41	2623	SCREW, HHC 5/16-18 X 1-1/4	4	
42	37423	STACK BOLT, BEHRINGER STB-T2	2	
43	23963	GROMMET, 1-1/4 ID X 1/4" GROOVE	2	
44	0105	SCREW, HHC 5/16-18 X 1-1/2	2	
45	0300 B	WASHER, FLAT SAE 5/16	2	
46	23034	VALVE, PILOT OPERATED RELIEF, ADJUSTABLE	1	
47	32454	FITTING, STR 6MOR x 6MORFS LONG	1	
48	32256	FITTING, 90 6FORFS x 6MORFS	1	
49	32341	FITTING, STR -6MORFS x -6MOR	2	

RADIATOR AND AIR FILTER ASSY.



RADIATOR AND AIR FILTER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	10434	CLAMP, HOSE WORM #32	2	
2	32099	HOSE, AIR INTAKE	1	
3	23725-14	AIR CLEANER	1	
4	23725-15	STAY, AIR CLEANER	1	
5	23729	RADIATOR, HHX RCP 79000792	1	
6	23793	HOSE KIT, RCP RADIATOR	1	
7	20742	ISOLATOR, RB2 RING/BUSHING TECH PRODUCTS	2	
8	20743	WASHER, ISO SNUB KROFUND DYN 148099-18	2	
10	12318	SCREW, HHC 1/2-13 X 2 3/4	2	
11	23815	MOUNT, THROTTLE RETURN SPRING	1	
12	28922-060	SCREW, HHC M4-0.7x10MM	1	