

PARTS MANUAL



MODEL MD80 HYDRAULIC RIDE-ON TROWEL (VANGUARD 61G200 40 HP GASOLINE ENGINE)

Revision #0 (05/29/25)

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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

PN: 48712

MD80**Ride-On Trowel**

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NOTICE

Specifications and part numbers are subject to change without notice.

Handwriting practice paper with horizontal lines and a large, faint watermark reading "123" in the center.

EXPLANATION OF CODE IN REMARKS COLUMN

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

NOTICE

The contents and part numbers listed in the parts section are subject to change without notice. Multiquip does not guarantee the availability of the parts listed.

SAMPLE PARTS LIST

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	12345	BOLT	1	INCLUDES ITEMS W/%
2%		WASHER, 1/4 IN.		NOT SOLD SEPARATELY
2%	12347	WASHER, 3/8 IN. ...	1	MQ-45T ONLY
3	12348	HOSE	A/R	MAKE LOCALLY
4	12349	BEARING	1	S/N 2345B AND ABOVE

NO. Column

Unique Symbols — All items with same unique symbol (@, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the “Remarks” column.

Duplicate Item Numbers — Duplicate numbers indicate multiple part numbers, which are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.

NOTICE

When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

PART NO. Column

Numbers Used — Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at the time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the “Remarks” Column.

QTY. Column

Numbers Used — Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the “Remarks” Column.

REMARKS Column

Some of the most common notes found in the “Remarks” Column are listed below. Other additional notes needed to describe the item can also be shown.

Assembly/Kit — All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

“INCLUDES ITEMS W/(unique symbol)”

Serial Number Break — Used to list an effective serial number range where a particular part is used.

Indicated by:

“S/N XXXXX AND BELOW”

“S/N XXXX AND ABOVE”

“S/N XXXX TO S/N XXX”

Specific Model Number Use — Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

“XXXXX ONLY”

“NOT USED ON XXXX”

“Make/Obtain Locally” — Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

“Not Sold Separately” — Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.

SUGGESTED SPARE PARTS

MD80 HYDRAULIC RIDE-ON TROWEL

1 to 3 units

Qty.	P/N	Description
2.....	23959.....	SWITCH, IGNITION
2.....	23959-1	KEY, IGNITION SW.
2.....	12315.....	THRUST COLLAR WITH BUSHING
4.....	32383.....	ARM, TROWEL, LONG HD
4.....	11039.....	BUSHING, TROWEL ARM
1.....	45645.....	RESERVOIR DRAIN CAP
2.....	46250W	FUSE, 2A
2.....	46254W	FUSE, 7.5A
2.....	46255W	FUSE, 10A
2.....	46256W	FUSE, 15A
10.....	46259W	FUSE, 30A
2.....	45644.....	FILTER, HYD. 10 MICRON
3.....	3011CCR1U01	RELAY, 5-PIN MICRO
3.....	3031AHCR1U01...	RELAY, 4-PIN MICRO
1.....	080176AE.....	CAP, 3.5" EPA FUEL

VANGUARD EFI 40HP SPLINE GASOLINE ENGINE

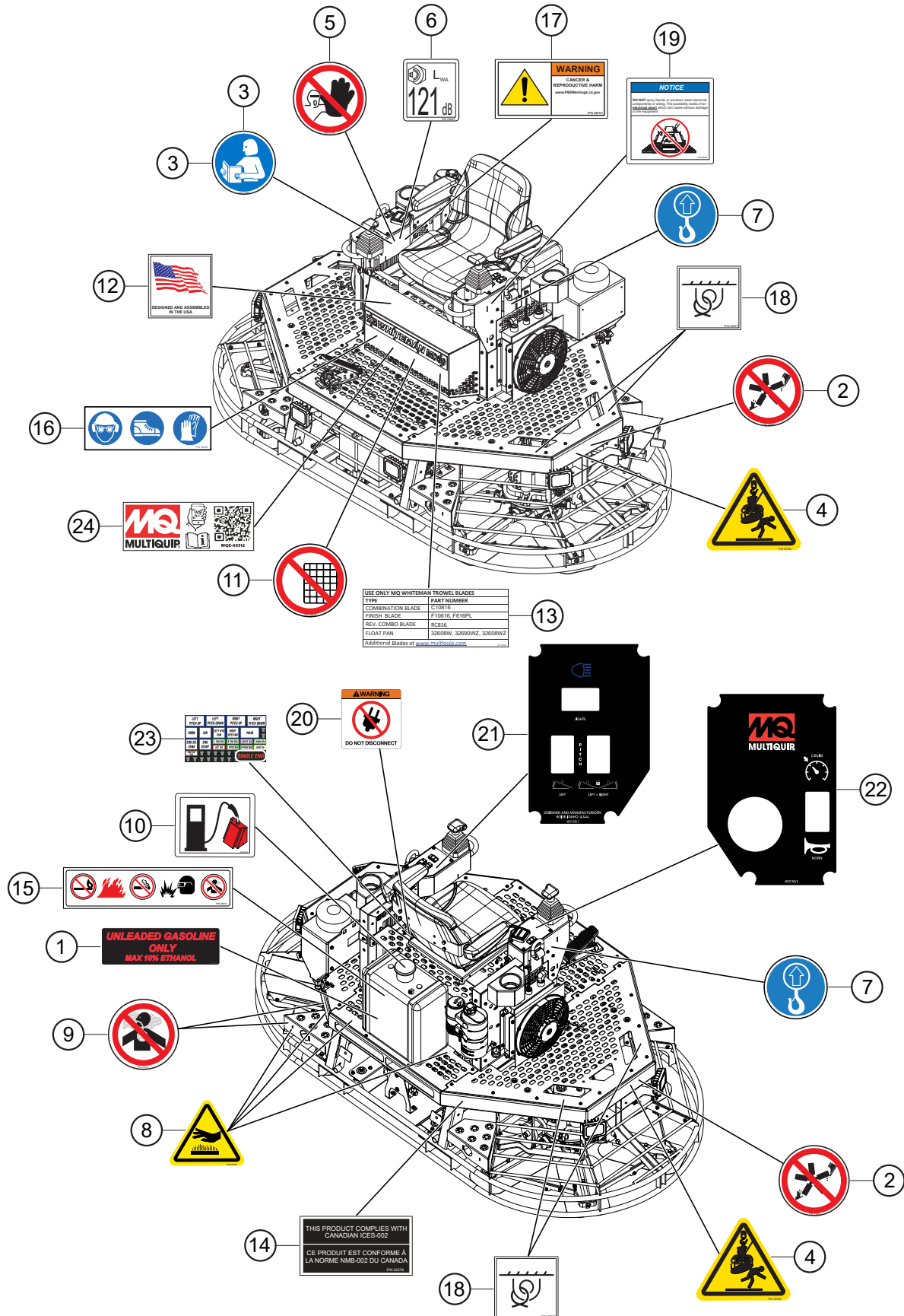
1 to 3 units

Qty.	P/N	Description
4.....	792015.....	PLUG, SPARK
2.....	842921.....	FILTER, OIL
2.....	692519.....	FILTER, A/C CARTRIDGE
2.....	692520.....	FILTER, PRE CLEANER
3.....	845125.....	FILTER, FUEL
1.....	846824.....	PUMP, FUEL

NOTICE

Part numbers on this Suggested Spare Parts list may supersede/replace the part numbers shown in the following parts lists.

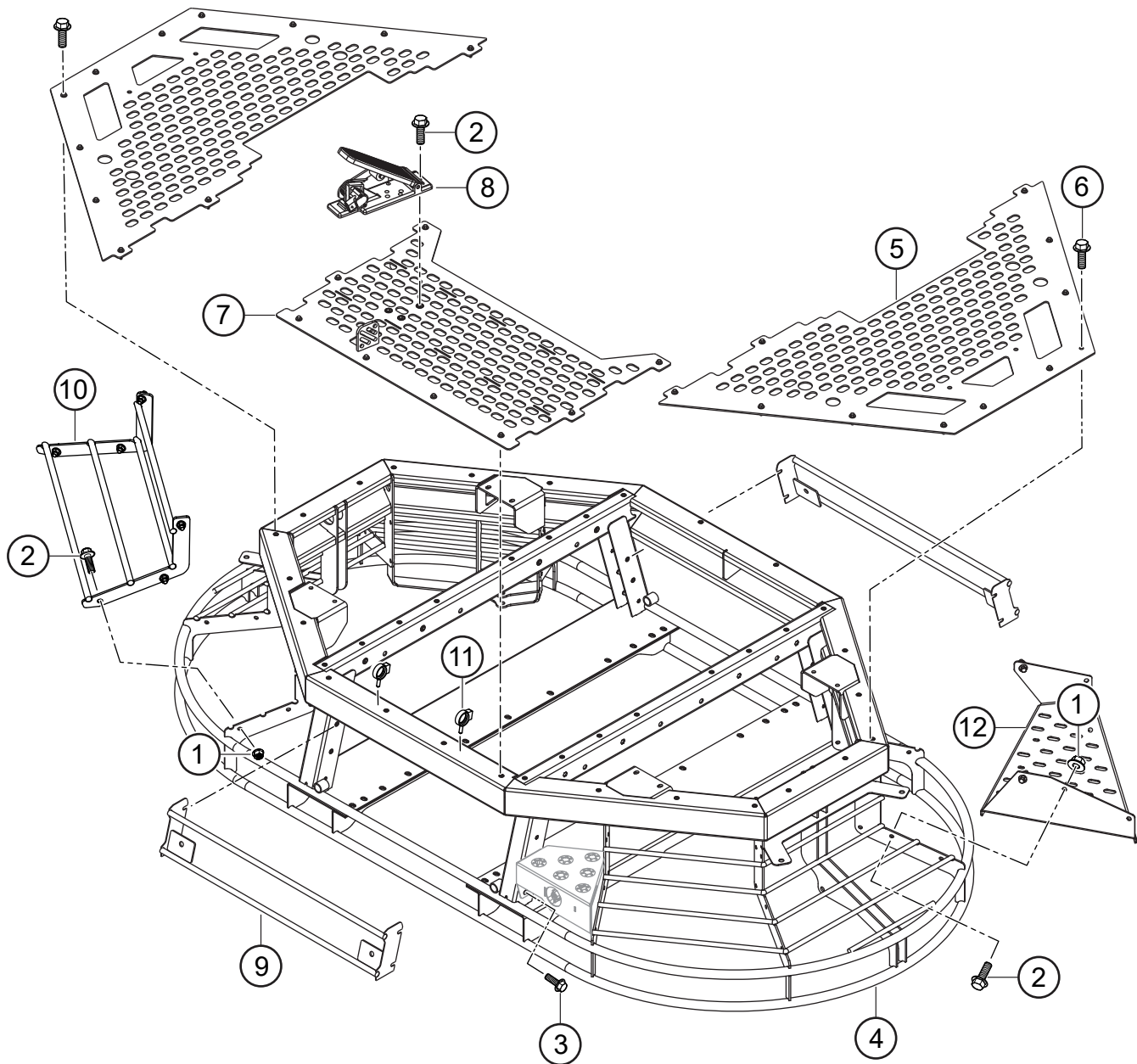
NAMEPLATE AND DECALS ASSY.



NAMEPLATE AND DECALS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	23587	DECAL, UNLEADED GASOLINE	1	
2	23698	DECAL, ISO, ROATING BLADE HAZARD	2	
3	23699	DECAL, ISO, READ MANUAL	1	
4	23700	DECAL, ISO, LIFTING/CRUSH	2	
5	23701	DECAL, ISO, ASK FOR TRAINING	1	
6	23803-121	DECAL, GUARANTEED SOUND POWER LEVEL	1	
7	23805	DECAL, ISO, LIFTING POINT	2	
8	23808	DECAL, ISO, HOT SURFACE HAZARD	4	
9	23810	DECAL, ISO, INHALATION HAZARD	2	
10	23812	DECAL, ISO, FUEL GASOLINE	1	
11	23874	DECAL, ISO, DO NOT REMOVE GUARDS, HAZARD	1	
12	30538	DECAL, FLAG DESIGNED ASSEMBLED IN USA	1	
13	32220	DECAL, TROWEL BLADES	1	
14	32578	DECAL, CANADIAN COMPLIANCE	1	
15	34630	DECAL, ISO, FIRE, EXPLOSION, SMOKING HAZARD	1	
16	36099	DECAL, ISO, PROTECTIVE CLOTHING	1	
17	38707	DECAL, CANCER AND REPRODUCTIVE HARM	1	
18	42971	DECAL, ISO, TIE-DOWN	4	
19	48022	DECAL, PRESSURE WASH	1	
20	48056	DECAL, SAFETY SWITCH DO NOT DISCONNECT	1	
21	48721	DECAL, LH CONTROL PANEL	1	
22	48722	DECAL, RH CONTROL PANEL	1	
23	48906	DECAL, FUSE MAP	1	
24	50013	DECAL, QR LABEL W/ HR BARCODE LOGO	1	

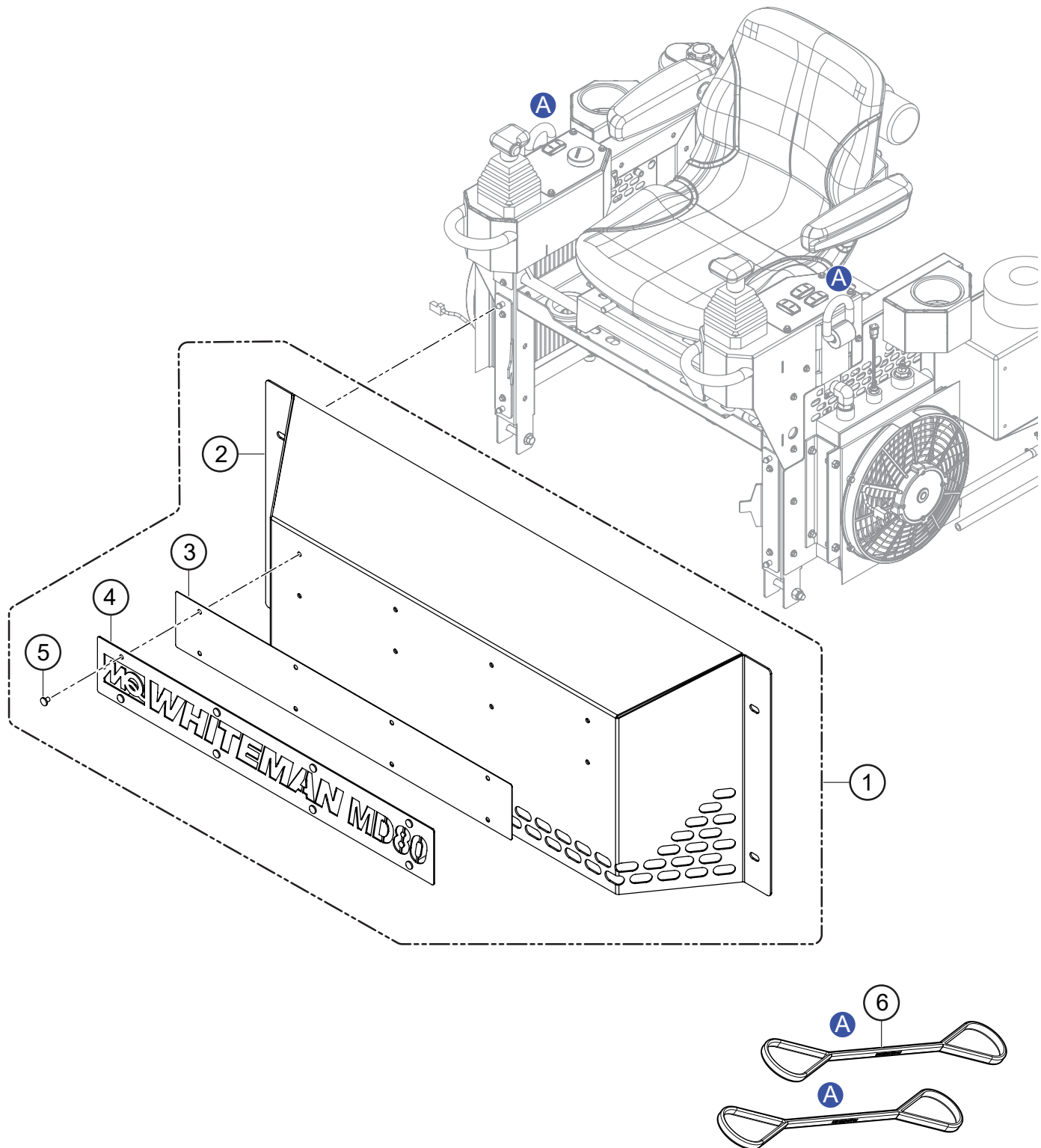
MAIN FRAME AND PLATFORM ASSY.



MAIN FRAME AND PLATFORM ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	23802	NUT, HEX. FLANGED M8-1.25	17	
2	42436	SCREW, HFS M8-1.25 X 25	17	
3	42542	SCREW, HFS M6-1.0 X 16	8	
4	45803	FRAME ASSEMBLY	1	
5	45865	SIDE DECK PANEL	2	
6	42325	SCREW, HHC M6-1.0 X 20	30	
7	48065	FOOT PANEL	1	
8	43144	PEDAL, FOOT	1	
9	48341	PANEL W/A, CENTER FRAME	2	
10	48379	ROTOR ACCESS PANEL	1	
11	23843	CLIP, 1" WIRE LOOM	2	
12	45971	MUFFLER PANEL	1	

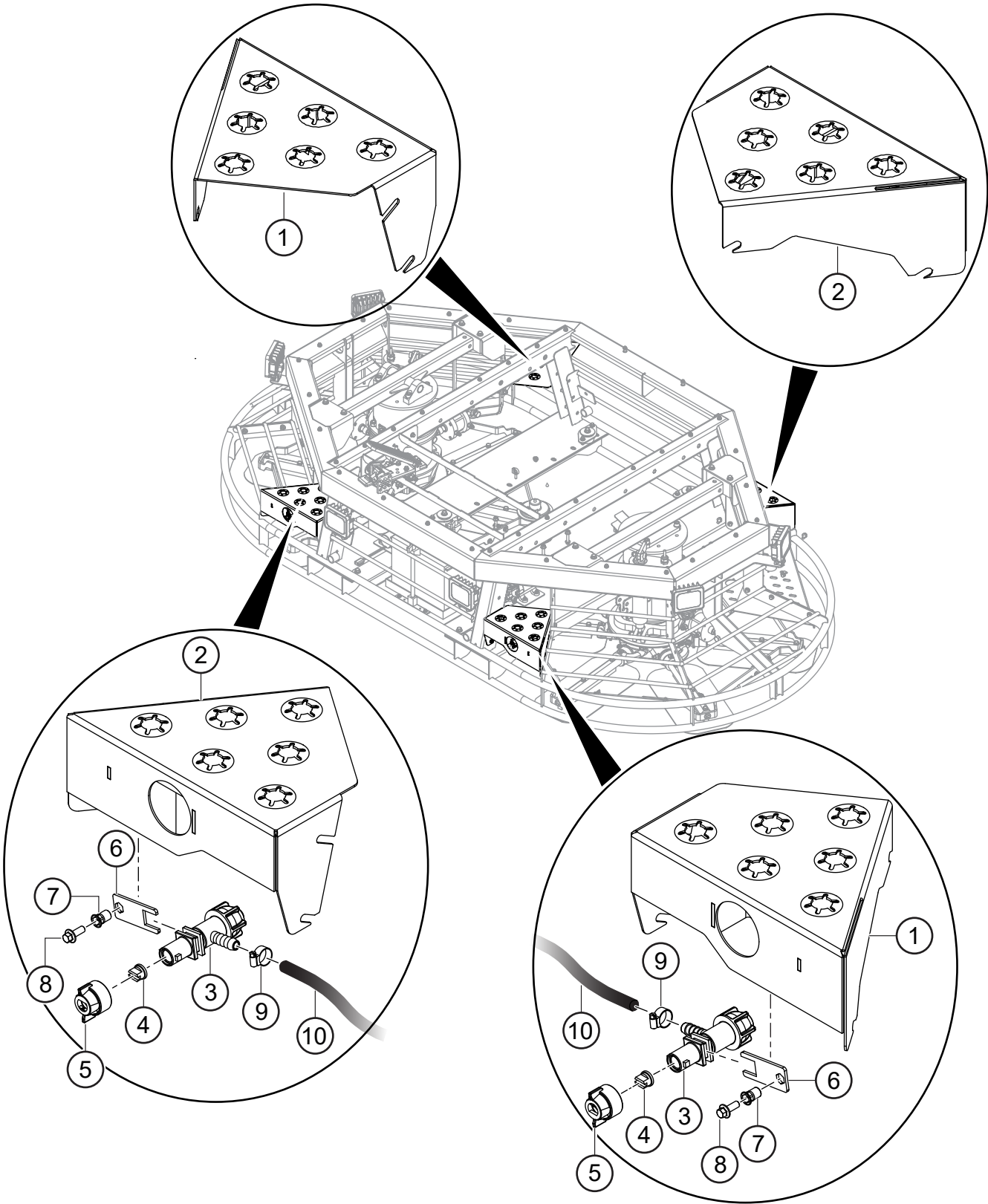
FRONT PANEL ASSY.



FRONT PANEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	48088	FRONT PANEL ASSEMBLY	1.....	INCLUDES ITEMS W/#
2	48084	PANEL, FRONT	1	
3	45641	BACKING, EMBLEM	1	
4	48663	BADGE, MODEL	1	
5	19847	RIVET, POP ALUM. 3/16 X 1/8-1/4 GRIP	8	
6	52078	LIFTING STRAP, 3 FT-6 IN 6200LBS CAP.	2	

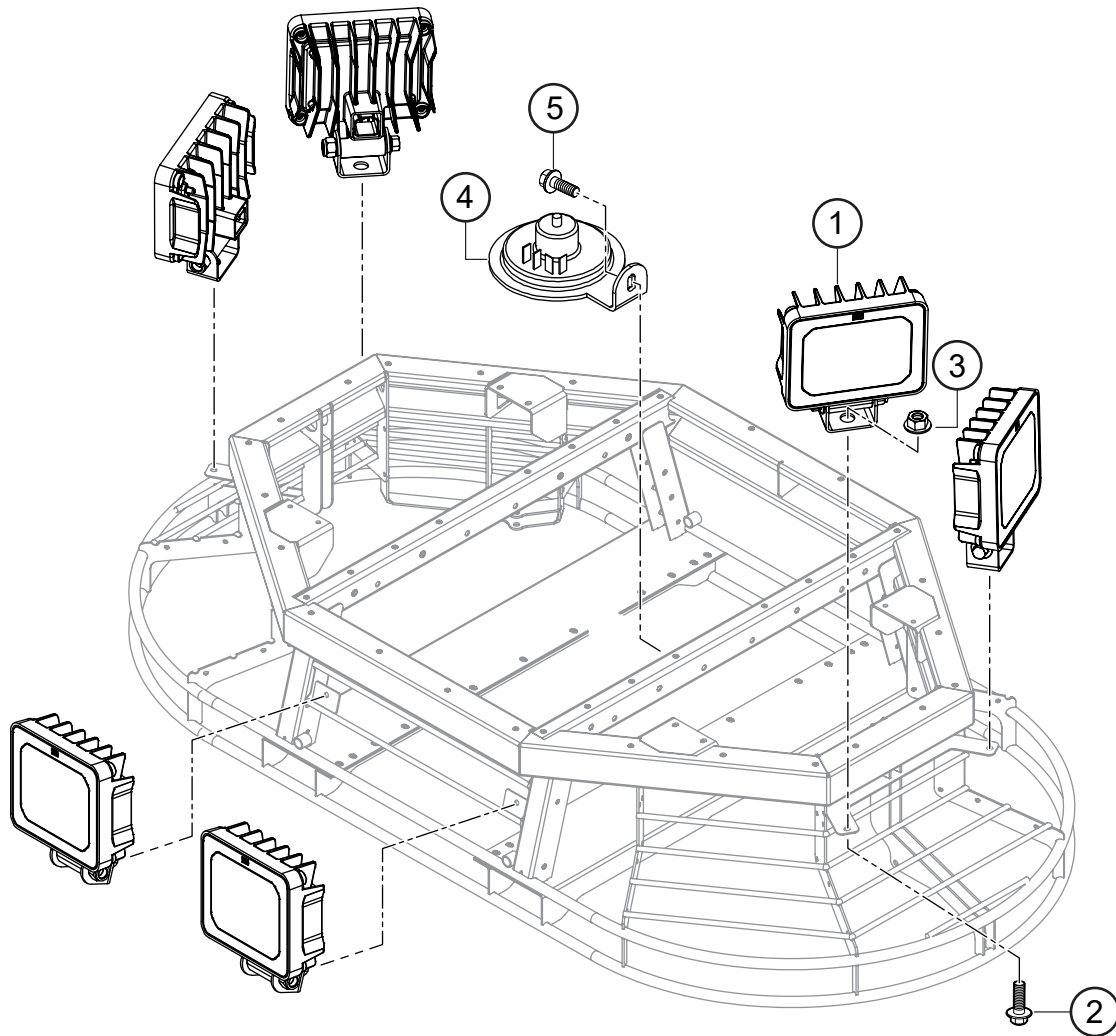
STEP AND SPRAY ASSY.



STEP AND SPRAY ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	45906	STEP W/A, LH	2	
2	45903	STEP W/A, RH	2	
3	45472	NOZZLE, TEEJET BODY, SINGLE	2	
4	49247	SPRAY, FLAT TIP BROWN	2	
5	45474	SPRAY TIP, CAP W/ GASKET	2	
6	45605	MOUNT, NOZZLE TAB	2	
7	42496	NUT, BLIND, HEX. M6-1.0 X0.7 - 4.2 GRIP	2	
8	42542	SCREW, HFS M6-1.0 X 16	2	
9	15538	CLAMP, HOSE WORM #6	2	
10	60021	HOSE, 3/8 ID X 5/8 OD (1.5 FT.)	2	

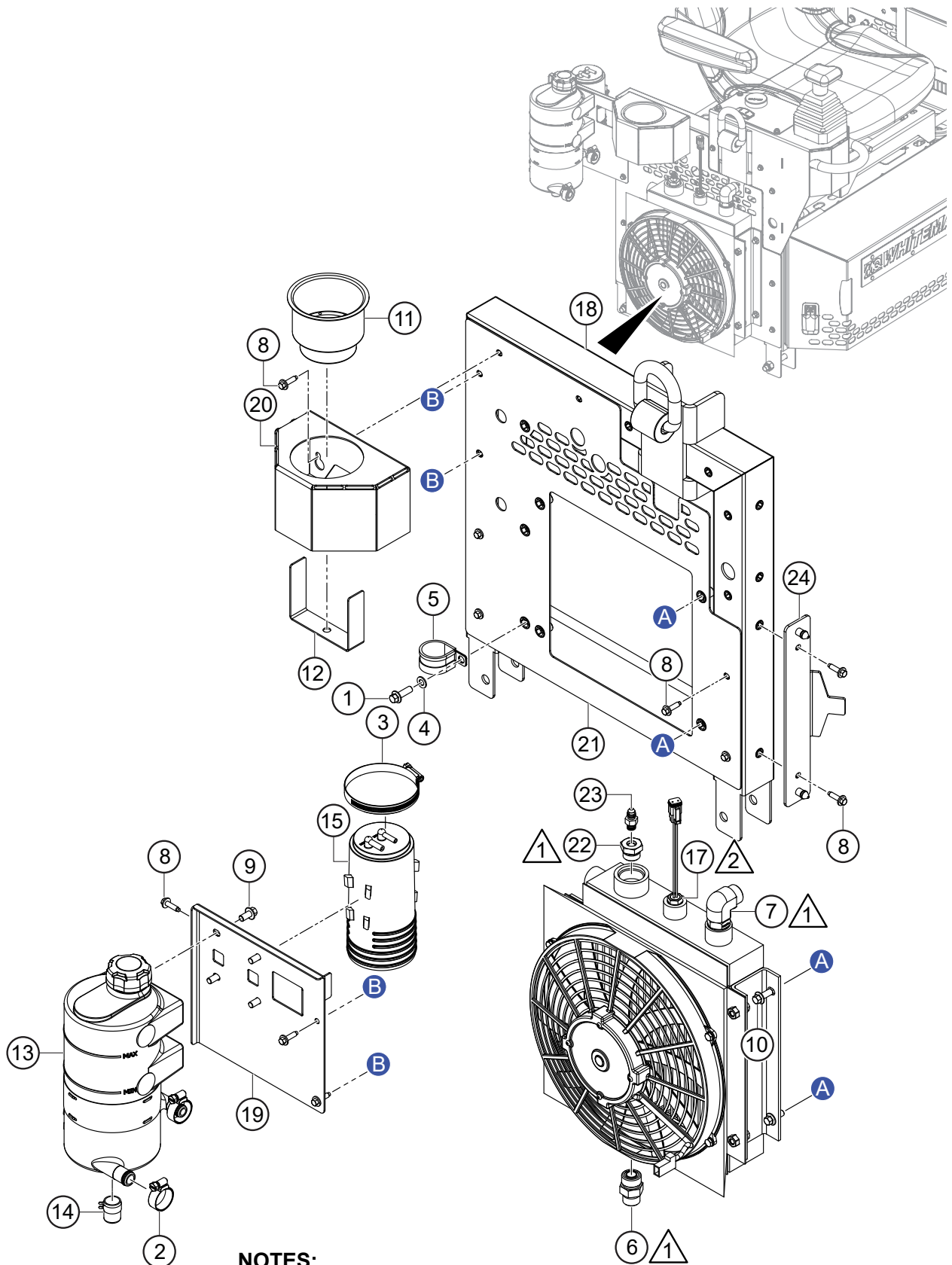
LIGHT AND HORN ASSY.



LIGHT AND HORN ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	45573	LIGHT, 4" SQ. LED 100°	6	
2	45632	SCREW, HFS M10-1.5 X 20 CLASS 8.8	6	
3	42353	NUT, HEX SERRATED FLANGE M10-1.5	6	
4	45271	HORN	1	
5	42436	SCREW, HFS M8-1.25 X 25 CLASS 8.8	1	

RIGHT SIDE LIFT ASSY.



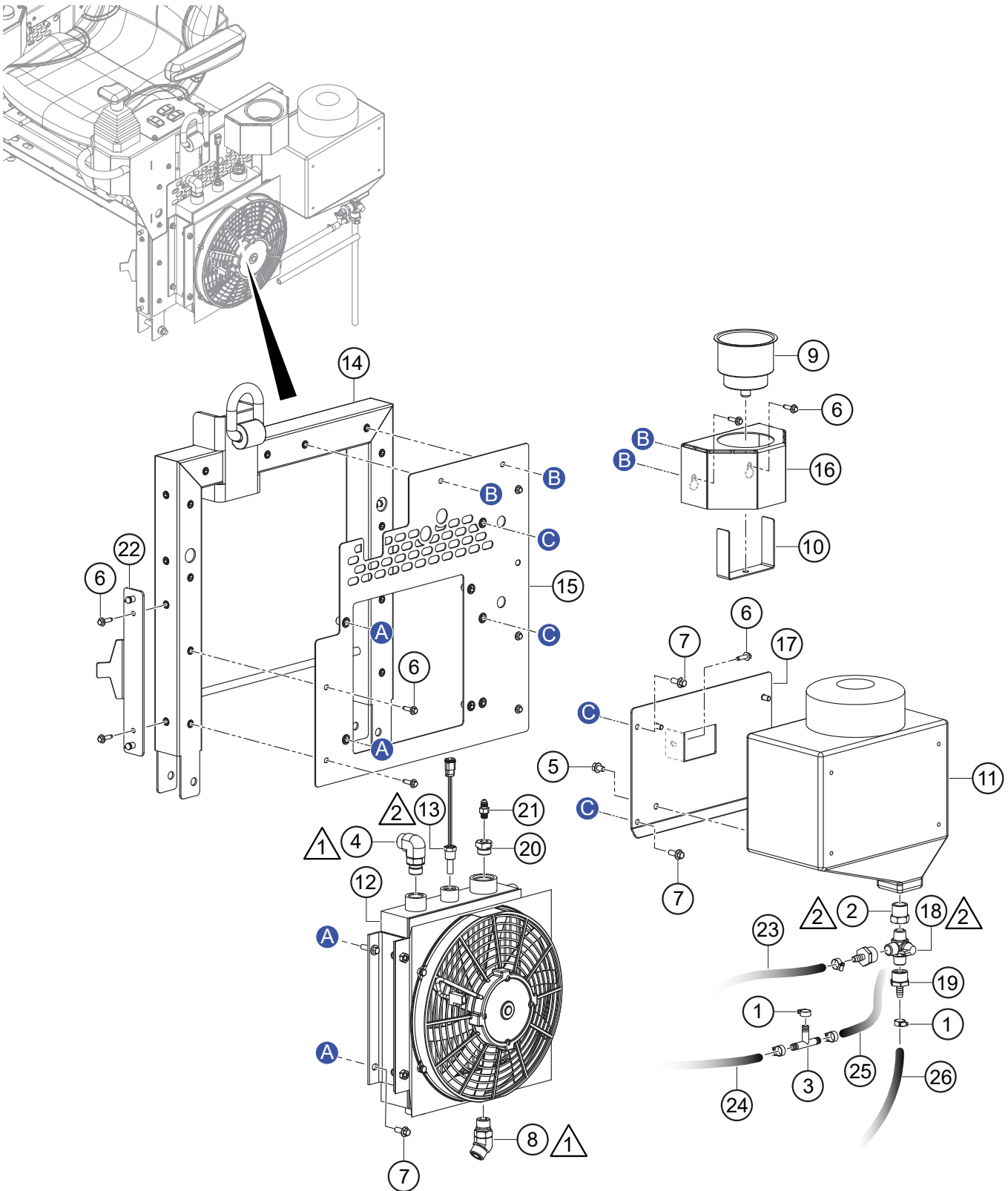
NOTES:

1 TORQUE ITEMS 6, 7, 22 TO 45-50 FT-LBS.

RIGHT SIDE LIFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	15226	SCREW, HFS, M8-1.25 X 25	1	
2	23119	CLAMP, HOSE WORM 3/4" TO 1 1/8"	2	
3	23794	CLAMP, HOSE WORM 3-9/2" TO 4-1/2"	1	
4	25591	WASHER, M8	1	
5	29796	CLAMP, CUSHIONED LOOP, 1-3/4 X 1	1	
6	32342	FITTING, STR -10MORFS X -10MOR.....	1	TORQUE TO 45-50 FT-LBS
7	32358	FITTING, 90° -10MORFS X -10MOR.....	1	TORQUE TO 45-50 FT-LBS
8	42325	SCREW, HHC M6-1.0 X 20, CAP. WASHER	11	
9	42342	SCREW, HFS, M8-1.25 X 16 GR 8.8	4	
10	42343	SCREW, HFS M8-1.25 X 20 GR 8.8	4	
11	43643	CUP HOLDER, STAINLESS STEEL	1	
12	43734	RETAINER, CUP HOLDER	1	
13	45132	CYCLONE, HYDRAULIC RESERVOIR	1	
14	45645	CAP, 8GPM CYCLONE, DRAIN	1	
15	45721	CANISTER, CARBON, 800CC	1	
16	48163	HEAT EXCHANGER ASSY.	1	
17	48395	SWITCH, TEMP 120°F RISING, 3/8 MP	1	APPLY LOCTITE 572
18	48486	LIFT FRAME W/A-RH	1	
19	48577	MOUNT, HYD. RESERVOIR	1	
20	48578	CUP HOLDER	1	
21	48661	SIDE PANEL ASSEMBLY-RH	1	
22	48704	FITTING, ADAPTOR -10MORB X -4FORB	1	TORQUE TO 45-50 FT-LBS
23	48709	FITTING, ORIFICE 4MJ-4MO X .031	1	
24	48992	LATCH BRACKET W/A	1	

LEFT SIDE LIFT ASSY.



NOTES:

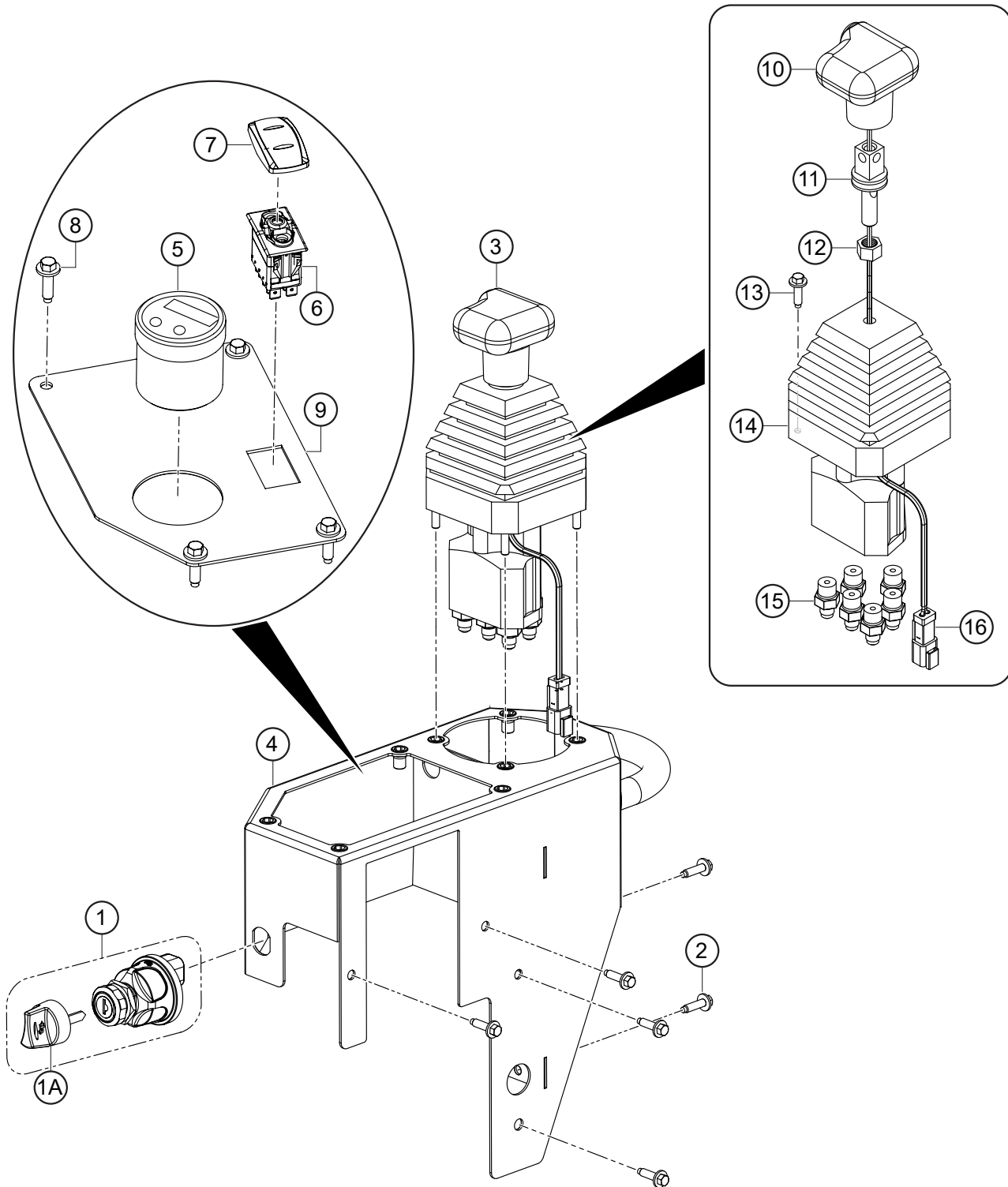
1 TORQUE ITEM 4 AND ITEM 8 TO 45-50 FT-LBS.

2 APPLY LOCTITE 572.

LEFT SIDE LIFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	15538	CLAMP, HOSE WORM #6	5	
2	16585	FITTING, BUSH 1/2FP X 3/4MP STEEL	1	APPLY LOCTITE 572
3	23307	TEE, .375 PLASTIC BARB	1	
4	32358	FITTING, 90° -10MORFS X -10MOR	1	TORQUE 45-50 FT-LBS
5	34002	SCREW, HHFS 5/16-18 X 1/2 GR 5	4	
6	42325	SCREW, HHC M6-1.0 X 20, CAP. WASHER	10	
7	42343	SCREW, HFS M8-1.25 X 20 GR 8.8	6	
8	42939	FITTING, 45 10MORFS X 10MOR	1	TORQUE 45-50 FT-LBS
9	43643	CUP HOLDER, STAINLESS STEEL	1	
10	43734	RETAINER, CUP HOLDER	1	
11	45200	TANK, 3 GAL. LG. MOUTH RETARDANT	1	
12	48163	HEAT EXCHANGER ASSY.	1	
13	48395	SWITCH, TEMP 120°F RISING, 3/8 MP	1	APPLY LOCTITE 572
14	48459	LIFT FRAME W/A-LH	1	
15	48576	SIDE PANEL ASSEMBLY-LH	1	
16	48578	CUP HOLDER	1	
17	48582	RETARDANT RESERVOIR MOUNT	1	
18	48650	3-WAY DIVERTER VALVE, 1/2 MNPT	1	APPLY LOCTITE 572
19	48651	FITTING, 1/2" FNPT X 3/8" BARB	2	
20	48704	FITTING, ADAPTOR -10MORB X -4FORB	1	
21	48709	FITTING, ORIFICE 4MJ - 4MO X .031	1	
22	48992	LATCH BRACKET W/A	1	
23	60021	HOSE, 3/8 ID X 5/8 OD (4.33 FT.)	1	
24	60021	HOSE, 3/8 ID X 5/8 OD (1 FT.)	1	
25	60021	HOSE, 3/8 ID X 5/8 OD (1 FT.)	1	
26	60021	HOSE, 3/8 ID X 5/8 OD (1.17 FT.)	1	

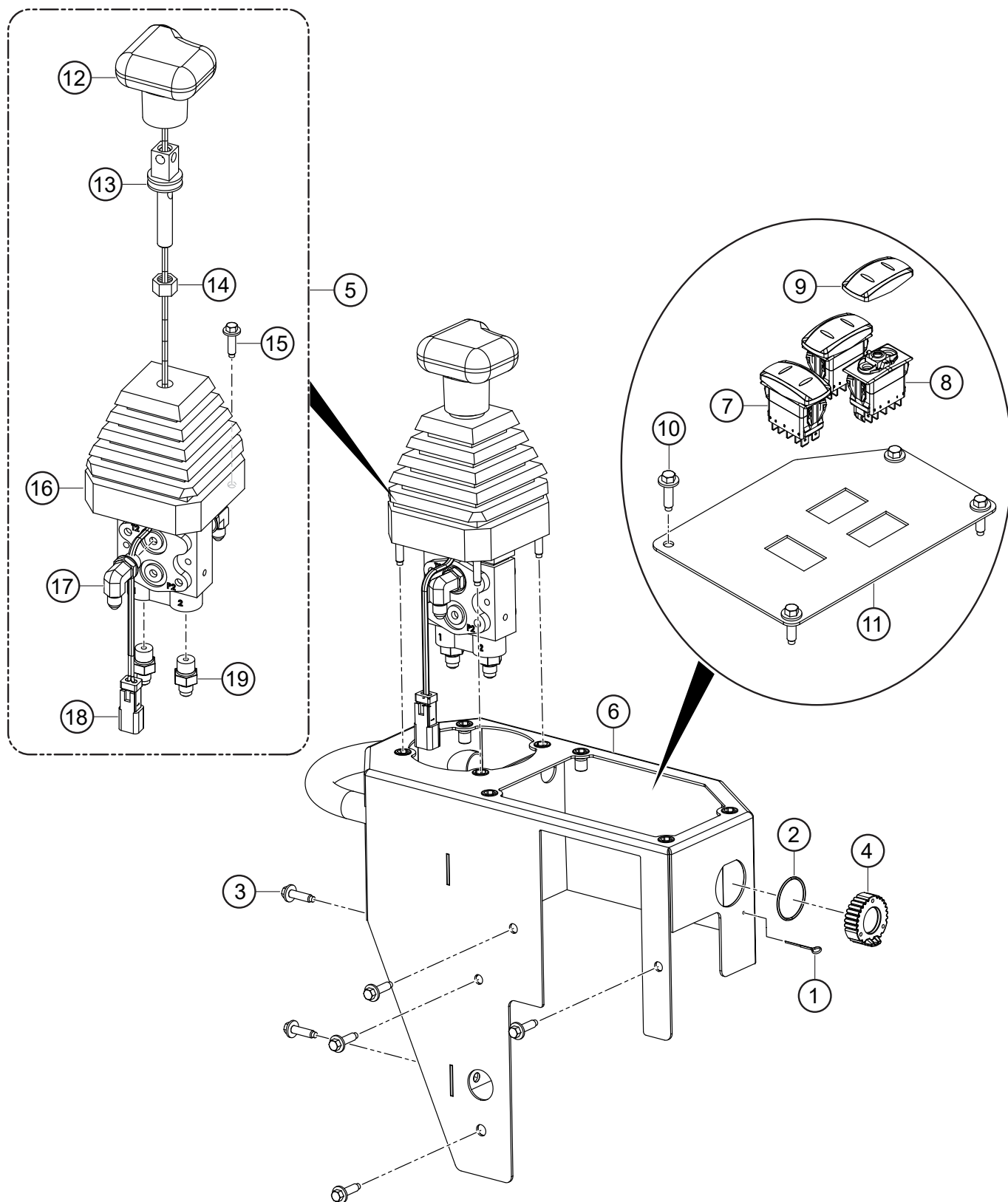
RIGHT-HAND CONTROL BOX ASSY.



RIGHT-HAND CONTROL BOX ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	23959	SWITCH, IGNITION.....	1.....	INCLUDES ITEMS W/%
1A%	23959-1	KEY, IGNITION SWITCH	1.....	SET COMES W/ 2 KEYS
2	42325	SCREW, HHC M6-1.0 X 20, CAP. WASHER	6	
3	45438-SK	VALVE ASSY., RH STEERING W/ SWITCH.....	1.....	INCLUDES ITEMS W/#
4	45876	STICK BOX, RH	1	
5	42070	DISPLAY, J1939-MURPHY PV25	1	
6	42178-007	SWITCH BASE, 10 TERM. (DPDT)	1	
7	42179-001	ACTUATOR	1	
8	42325	SCREW, HHC M6-1.0 X 20 CAP. WASHER	4	
9	48517	CONTROL PANEL, RH	1	
10#	12999	HANDLE, PALM W/ SWITCH, RIGHT	1	
11#	20834	ADAPTOR, PH PALM HANDLE	1	
12#	16083	NUT, HEX. M12-1.75 NO PLATE	1	
13#	42325	SCREW, HHC M6-1.0 X 20, CAP. WASHER	4	
14#	20832	VALVE, RH STEERING	1	
15#	367470	FITTING, STR 4MJ-6MO	6	
16#	37402	CONNECTOR KIT, MALE 2 POSITION	1	

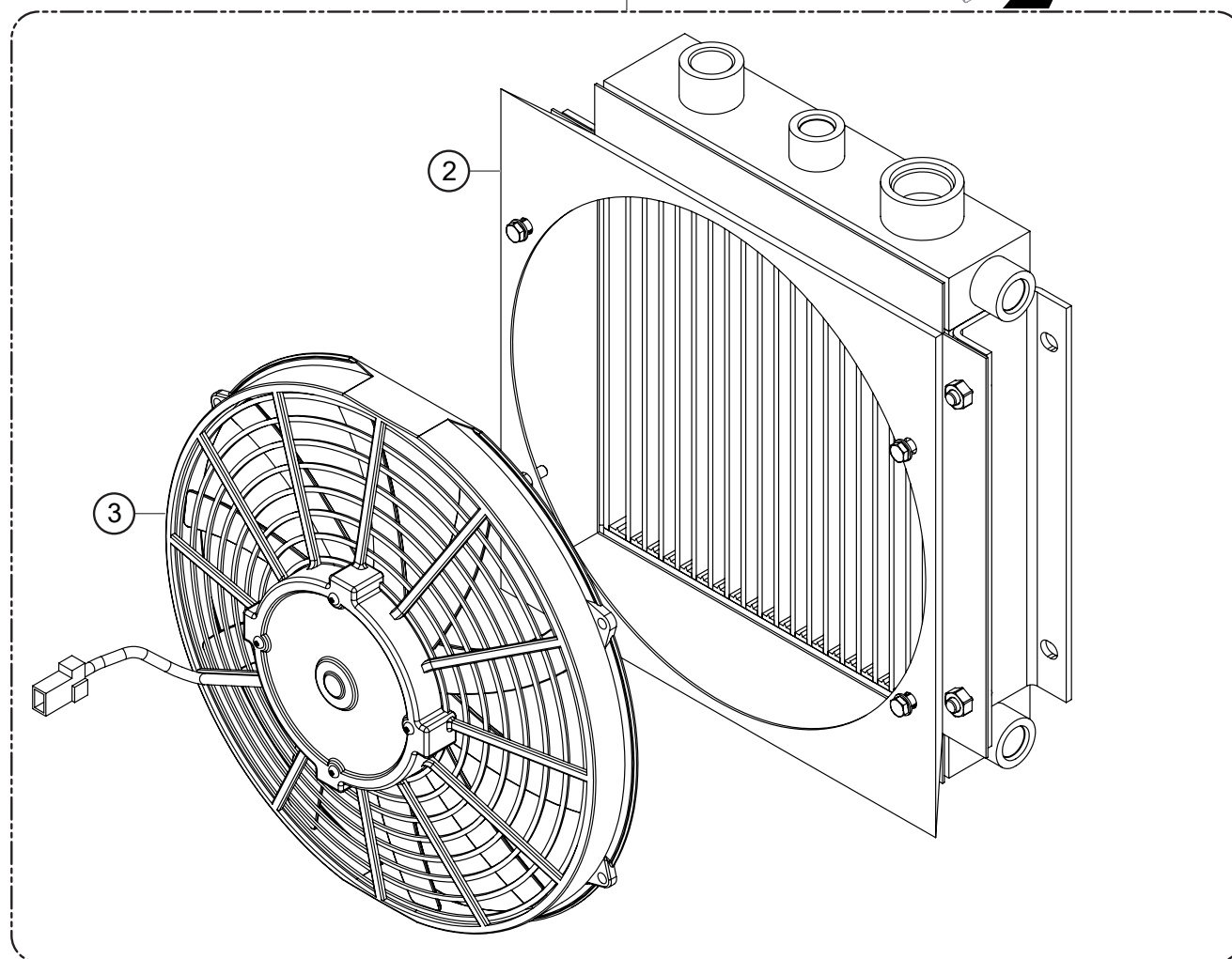
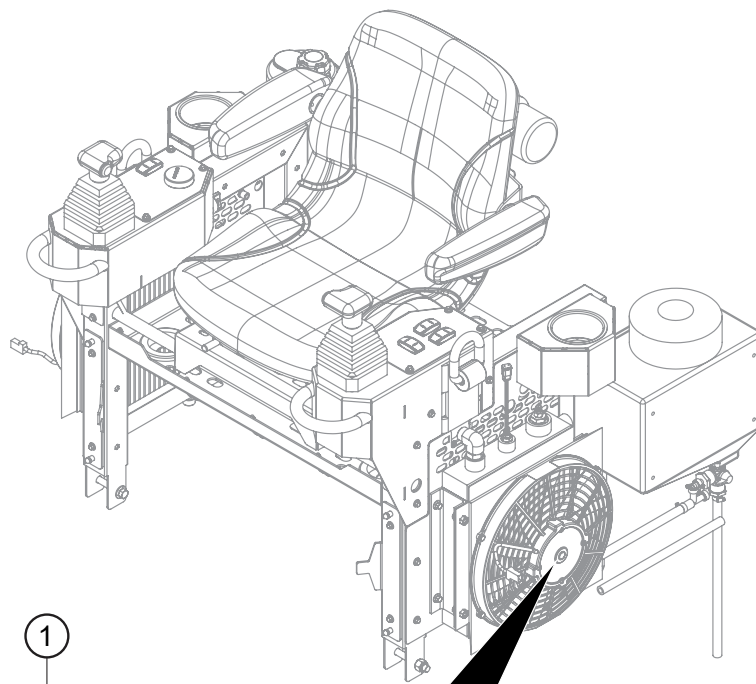
LEFT-HAND CONTROL BOX ASSY.



LEFT-HAND CONTROL BOX ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	5117	PIN, COTTER 1/16DX1/2	1	
2	36496	O-RING, SIZE-026	1	
3	42325	SCREW, HHC, M6-1.0 X 20, CAP. WASHER	6	
4	42442	CON. CAP, HD10, 9 PIN W/ LANYARD	1	
5	45437-SK	VALVE, LH STEERING W/ SWITCH ASSY.	1	INCLUDES ITEMS W/%
6	45877	STICK BOX, LH	1	
7	42178-006	SW. BASE 10 TERM, ON-OFF DUAL POLE	1	
8	42178-007	SWITCH BASE, 10 TERM. (DPDT)	2	
9	42179-001	ACTUATOR	3	
10	42325	SCREW, HHC M6-1.0 X 20, CAP. WASHER	4	
11	45994	SWTCH PANEL, LH	1	
12%	22001	HANDLE, PALM W/ SWITCH, LEFT	1	
13%	21053	ADAPTOR, LH PALM HANDLE	1	
14%	16083	NUT, HEX. M12-1.75 NO PLATE	1	
15%	42325	SCREW, HHC, M6-1.0 X 20, CAP. WASHER	4	
16%	20833	VALVE, LH STEERING	1	
17%	37407	90° FITTING, 4MJ X 6MO	2	
18%	37402	CONNECTOR KIT, MALE 2 POSITION	1	
19%	367470	FITTING, STR 4MJ-6MO	2	

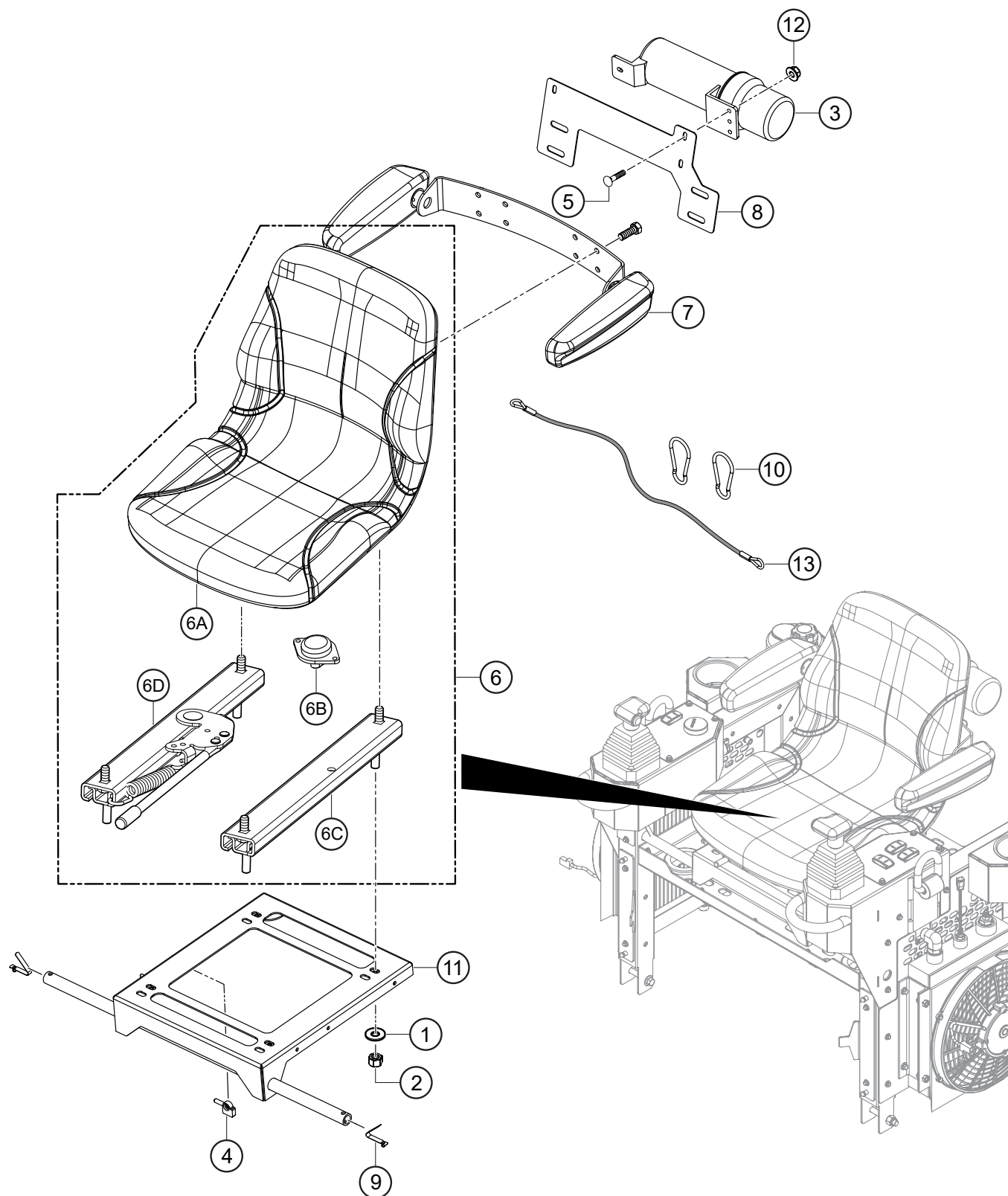
HEAT EXCHANGER ASSY.



HEAT EXCHANGER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	48163	HEAT EXCHANGER ASSY.....	1.....	INCLUDES ITEMS W/#
2#	48162	HEAT EXCHANGER, HYDRAULIC	1	
3#	42648-01	FAN, HEAT EXCHANGER - 12"	1	

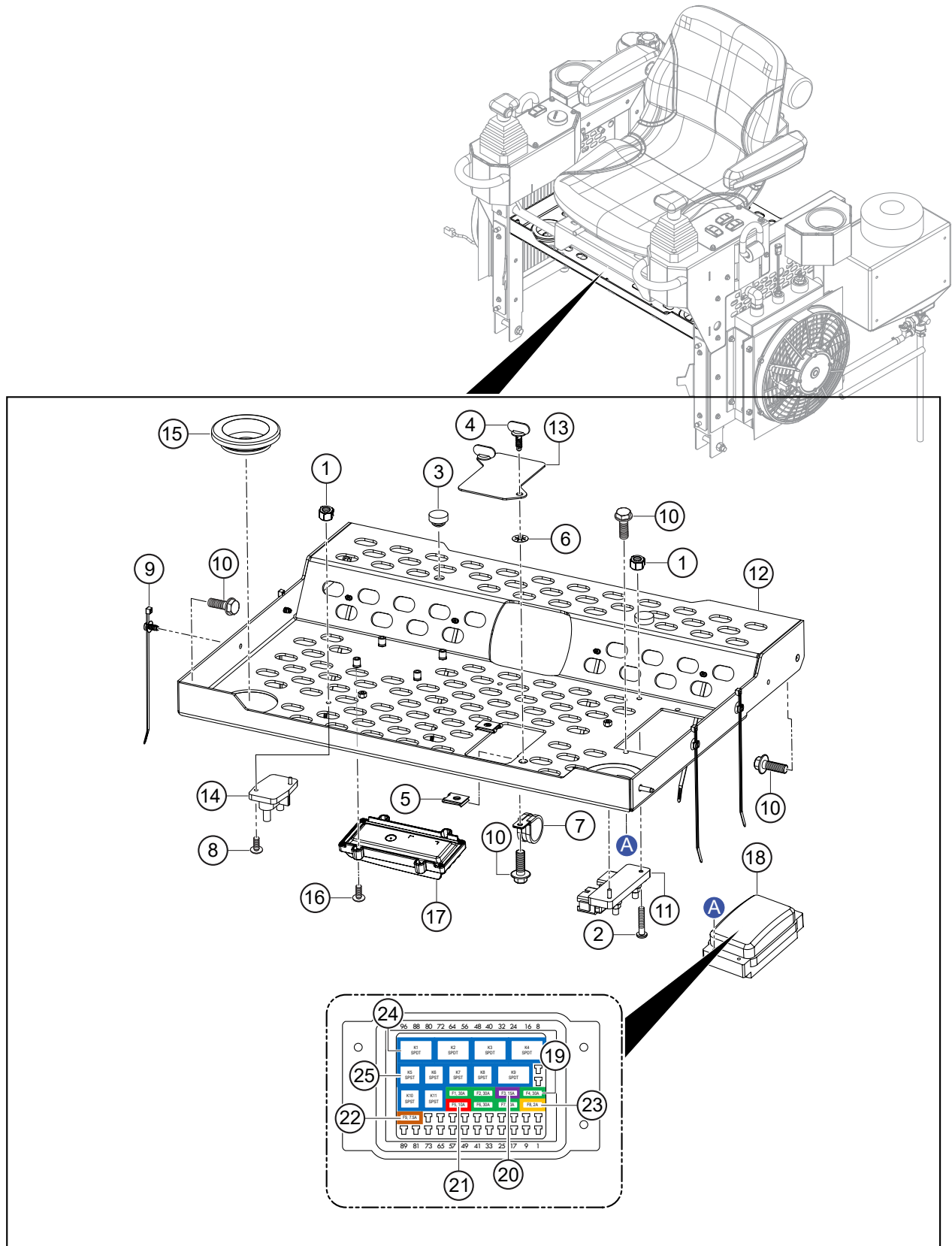
SEAT ASSY.



SEAT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	0300 B	WASHER, FLAT SAE 5/16	4	
2	5283	NUT, NYLOC 5/16-18	4	
3	23297	MANUAL HOLDER	1	
4	23841	CLIP 1/4" WIRE LOOM	2	
5	29712	BOLT, CARRIAGE 1/4-20 X 3/4	3	
6	32960SK	SEAT, SEARS-ADJUSTABLE W/ ARMS	1	INCLUDES ITEMS W/#
6A#	32963	SEAT, SEARS BASIC	1	
6B#	32962	KILL SWITCH, SEAR DELTA	1	
6C#	32964	SEAT ADJUSTER, LH SEARS	1	
6D#	32965	SEAT ADJUSTER, RH SEARS	1	
7	34792	ARMREST, SEARS SEAT	1	
8	43979	MOUNTING BRACKET	1	
9	45569	CONNECTOR, QUICK RELEASE 0.25	2	
10	45571	QUICK LINK, SPRING, 3/16	2	
11	45936	SEAT FRAME W/A	1	
12	49070	NUT, HFS 1/4-20	3	
13	52099	SEAT STOP CABLE ASSY.	1	

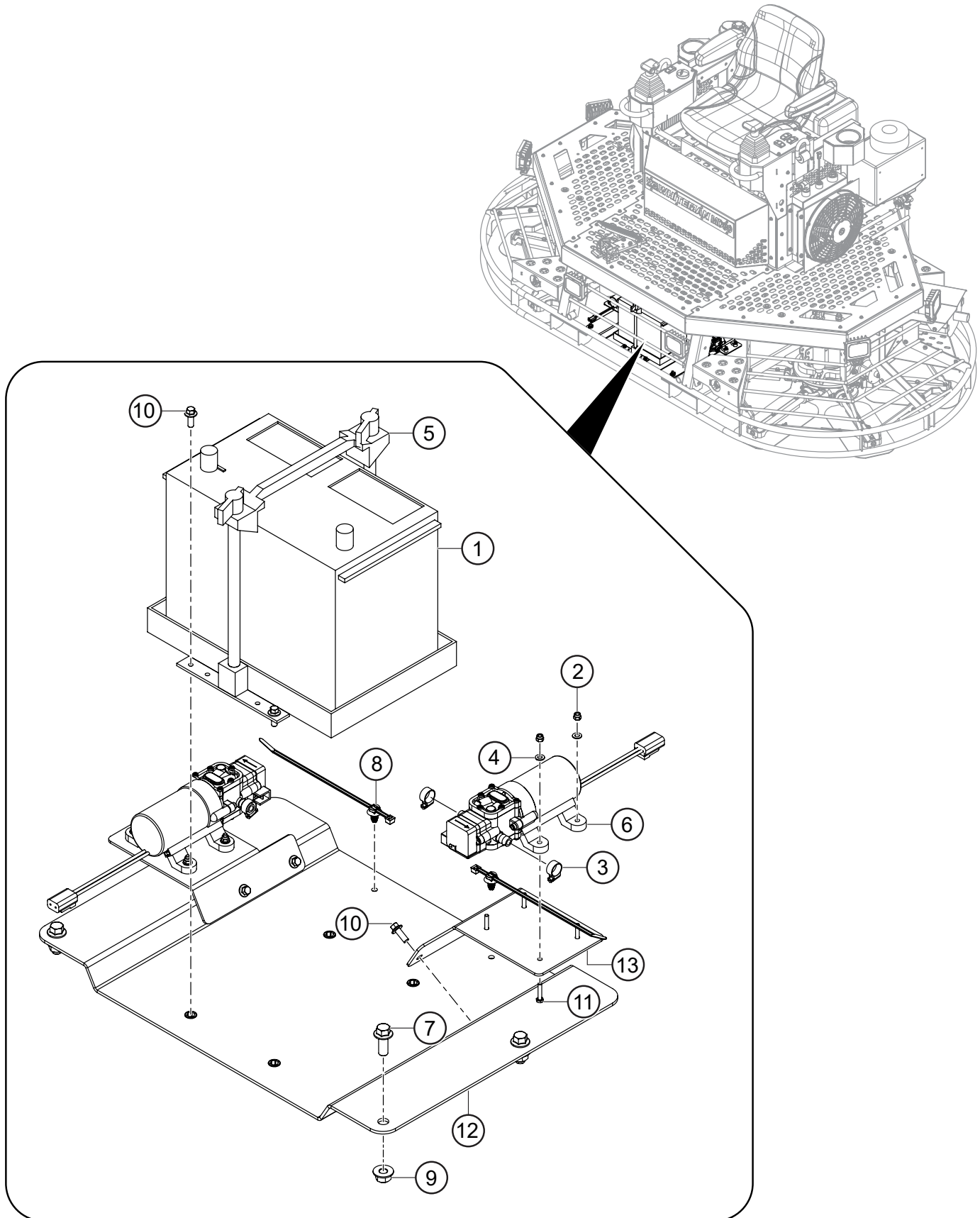
ELECTRICAL PANEL ASSY.



ELECTRICAL PANEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	10019	NUT, NYLOC 10-32	4	
2	15177	SCREW, PHP 10-32 X 1	2	
3	21597	BUMPER, STEM 1.0"D X .5S X .31	2	
4	21893	SCREW, FAST LEAD	2	
5	21894	NUT, CLIP, FAST LEAD	2	
6	21986	WASHER, FAST LEAD-STAINLESS	2	
7	22852	CLAMP, CUSHIONED LOOP #24	3	
8	34306	SCREW, PHP, 10-32 X 5/8, TYPE F	2	
9	42315	TIE, CABLE ASM, FIR TREE MT./CABLE	8	
10	42325	SCREW, HHC, M6-1.0 X 20, CAP. WASHER	11	
11	42713	BUSS BAR, DEUTSCH STYLE, 24 PIN	1	
12	45938	PANEL, ELECTRICAL	1	
13	48703	FUSE BOX COVER, ELEC. PNL.	1	
14	48790	DUAL BATTERY POWER POST	1	
15	59372	GROMMET, ROUND LIGHT, 2 1/2"	2	
16	42347	SCREW, HFS M6-1.0 X 30 GR 8.8	4	
17	48730	MACHINE CONTROL ASSY.	1	
18	48699	POWER DISTRIBUTION MODULE, 96 PIN.....	1	INCLUDES ITEMS W/#
19#	46259W	FUSE, 30A	5	
20#	46256W	FUSE, 15A	1	
21#	46255W	FUSE, 10A	1	
22#	46254W	FUSE, 7.5A	1	
23#	46250W	FUSE, 2A	1	
24#	3011CCR1U01	RELAY, 5-PIN MICRO	5	
25#	3031AHCR1U01	RELAY, 4-PIN MICRO	6	

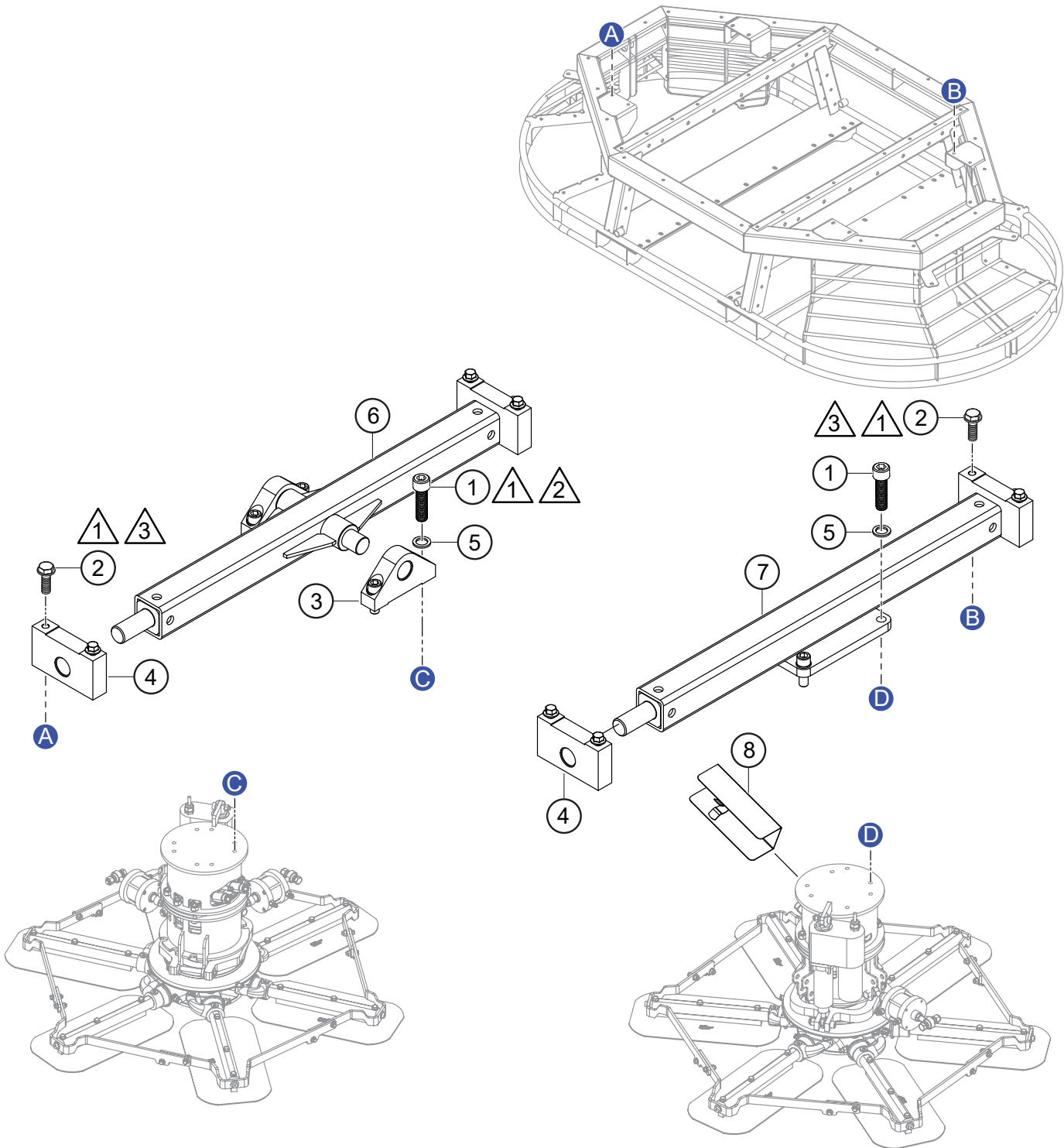
BATTERY AND SPRAY PUMP ASSY.



BATTERY AND SPRAY PUMP ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	10315	BATTERY, GROUP 24	1	
2	15518-004	NUT, NYLOC, M4-.7	8	
3	15538	CLAMP, HOSE WORM #6	4	
4	28922-058	WASHER, M5	8	
5	29661	BATTERY TRAY KIT	1	
6	30547	PUMP ASSEMBLY	2	
7	32976	SCREW, HFS M10-1.5 X 25-10.9	4	
8	42315	TIE, CABLE ASSY.	2	
9	42353	NUT, HEX. SERRATED-FLANGE M10-1.5	4	
10	42542	SCREW, HFS M6-1.0 X 16	8	
11	42894	SCREW, HHC M4-0.7 X 20MM	8	
12	48523	BATTERY TRAY	1	
13	48551	MOUNT, RETARDANT PUMP	2	

PIVOT ASSY.



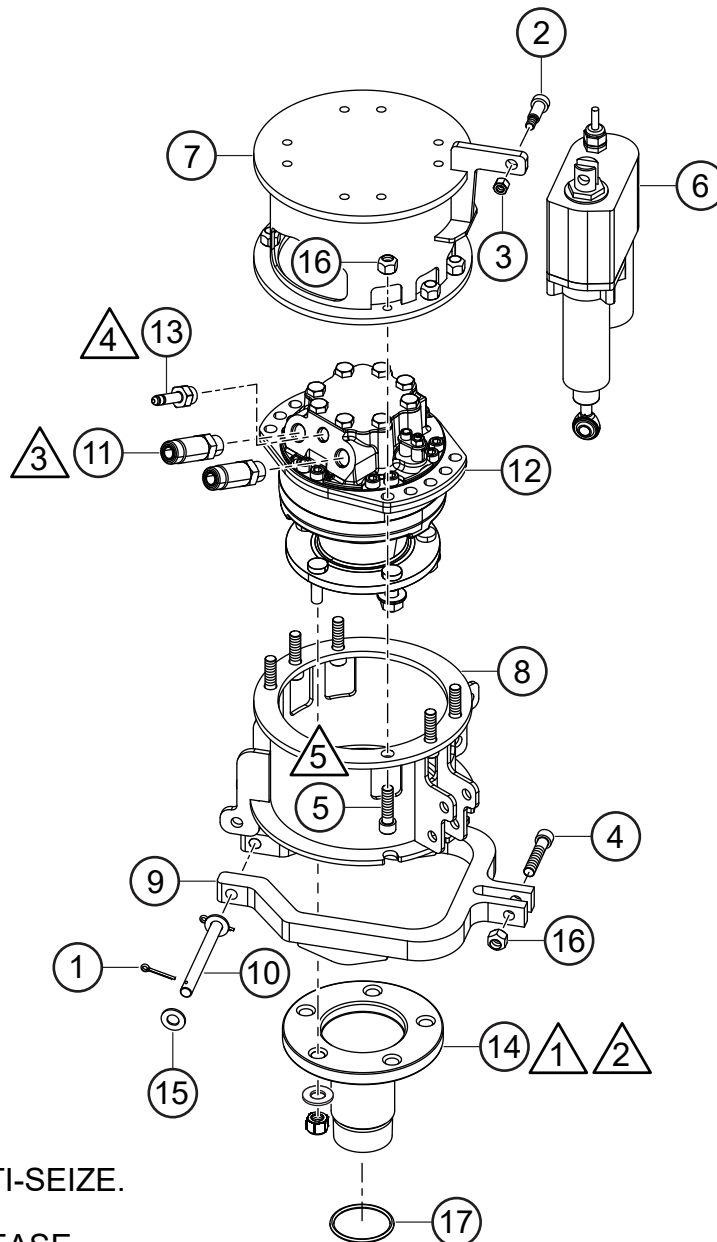
NOTES:

- ① APPLY LOCTITE 246.
- ② TORQUE ITEM 1 TO 50 FT-LB.
- ③ TORQUE ITEM 1 TO 40 FT-LB.

PIVOT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	17105	SCREW, SHC M12-1.75 X 35 SS.....	8.....	APPLY LOCTITE 246 TORQUE TO 50 FT-LB
2	32976	SCREW, HFS M10-1.5 X 25-10.9.....	8.....	APPLY LOCTITE 246 TORQUE TO 40 FT-LB
3	42280	BLOCK, MOTOR MT. 2 DOF PIVOT, ASSY.	2	
4	43152	PIVOT BLOCK ASSEMBLY	4	
5	43180	WASHER, FLAT M12	8	
6	43194	TRUNNION, SQ DOUBLE DOF	1	
7	43106	TRUNNION W/A, SINGLE DOF	1	
8	52090	SPLASH GUARD ASSY., HYDRAULIC	1	

HYDRAULIC MOTOR ASSY.



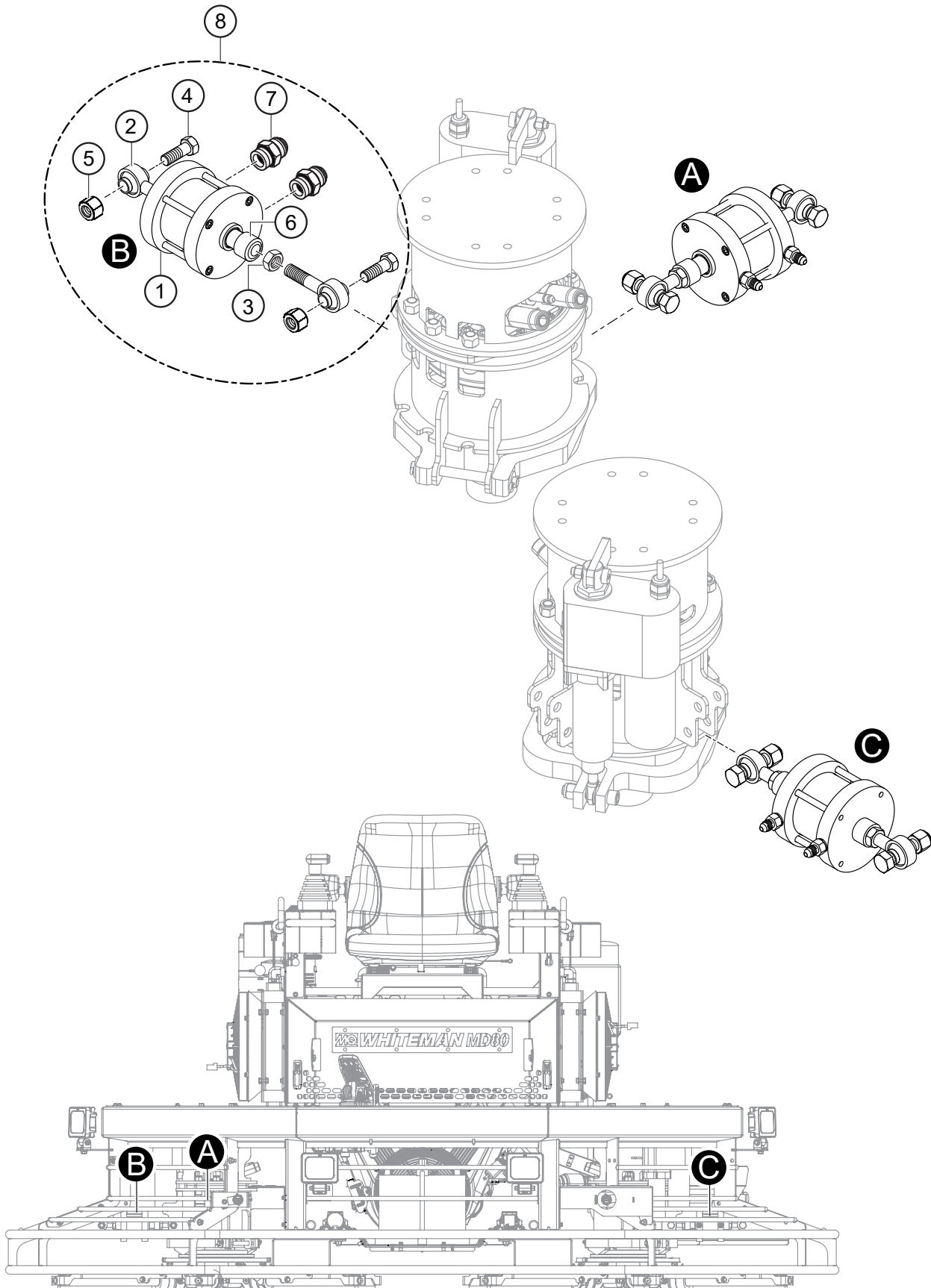
NOTES:

- 1** APPLY ANTI-SEIZE.
- 2** APPLY GREASE.
- 3** TORQUE ITEM 11 TO 90 FT-LB.
- 4** TORQUE ITEM 13 TO 50 FT-LB.
- 5** TORQUE ITEM 5 TO 75 FT-LB.

HYDRAULIC MOTOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	0183	PIN, COTTER 1/8 X 1-1/4	2	
2	2527	SCREW, SHC, SHOULDER, 3/8-16, 1/2 X 1	1	
3	10133	NUT, NYLOC 3/8-16	1	
4	17106	SCREW, SHC M12-1.75 X6 0	1	
5	32977	SCREW, SHC M12-1.75 X 45 GR 12.9	6	
6	45497	ACTUATOR, LINEAR, PA-17, 2"	1	
7	45818	HOUSING W/A, UPPER ROTOR	1	
8	45819	ROTOR HOUSING W/A, LOWER	1	
9	45850	YOKE W/A	1	
10	45857	PIN, YOKE PIVOT	1	
11	45948	FITTING, STR LG -10MORB TO -10 MORFS	2	
12	48384	MOTOR, HYD POC MSE02, 266CC	1	
13	48706	FITTING, STR LONG, -4MJIC X -8MORB	1	
14	48741	DRIVE ADAPTOR	1	
15	933244	WASHER, FLAT SAE 1/2 GRD 9	2	
16	021112140	NUT, HEX., NYLOC M12-1.75	7	
17	43186	O-RING, SIZE 2-226 VITON	1	

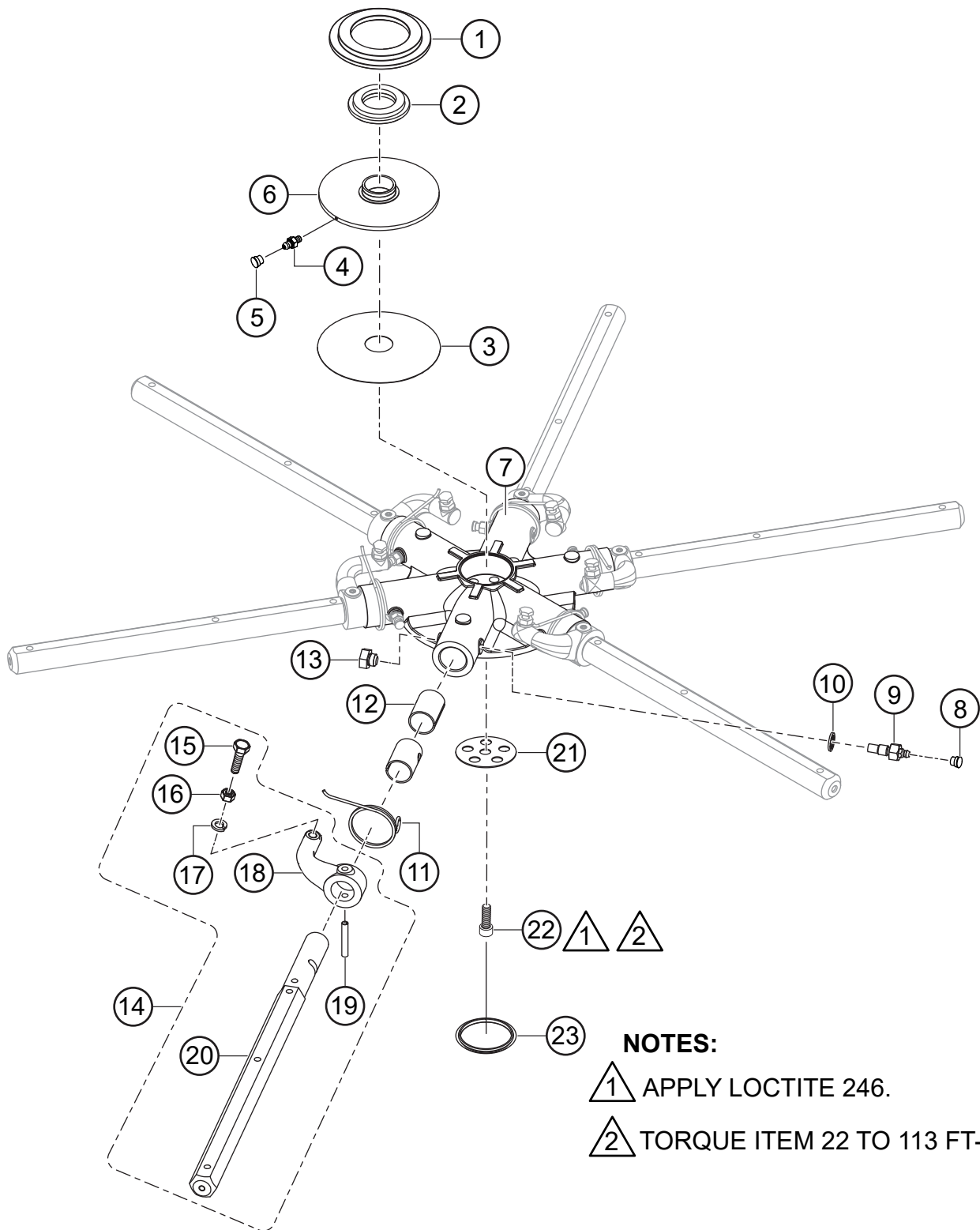
HYDRAULIC STEERING ASSY.



HYDRAULIC STEERING ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	45585	CYLINDER, 2.5" BORE	3	
2	21944	ROD END, 1/2-20 M RH W/ CUSTOM BALL	6	
3	11146	NUT, HEX. JAM 1/2-20 PLATED	6	
4	13178	SCREW, HHC 1/2-13 X 2 1/4 GR5	6	
5	10176	NUT, NYLOC 1/2-13	6	
6	45961	SPACER, STEERING CYLINDER	3	
7	366155	FITTING, STR 4MJ-1/4MP	6	
8	45960SK	STEERING CYLINDER ASSY.	3	

SPIDER ASSY. (RIGHT-SIDE)



NOTES:

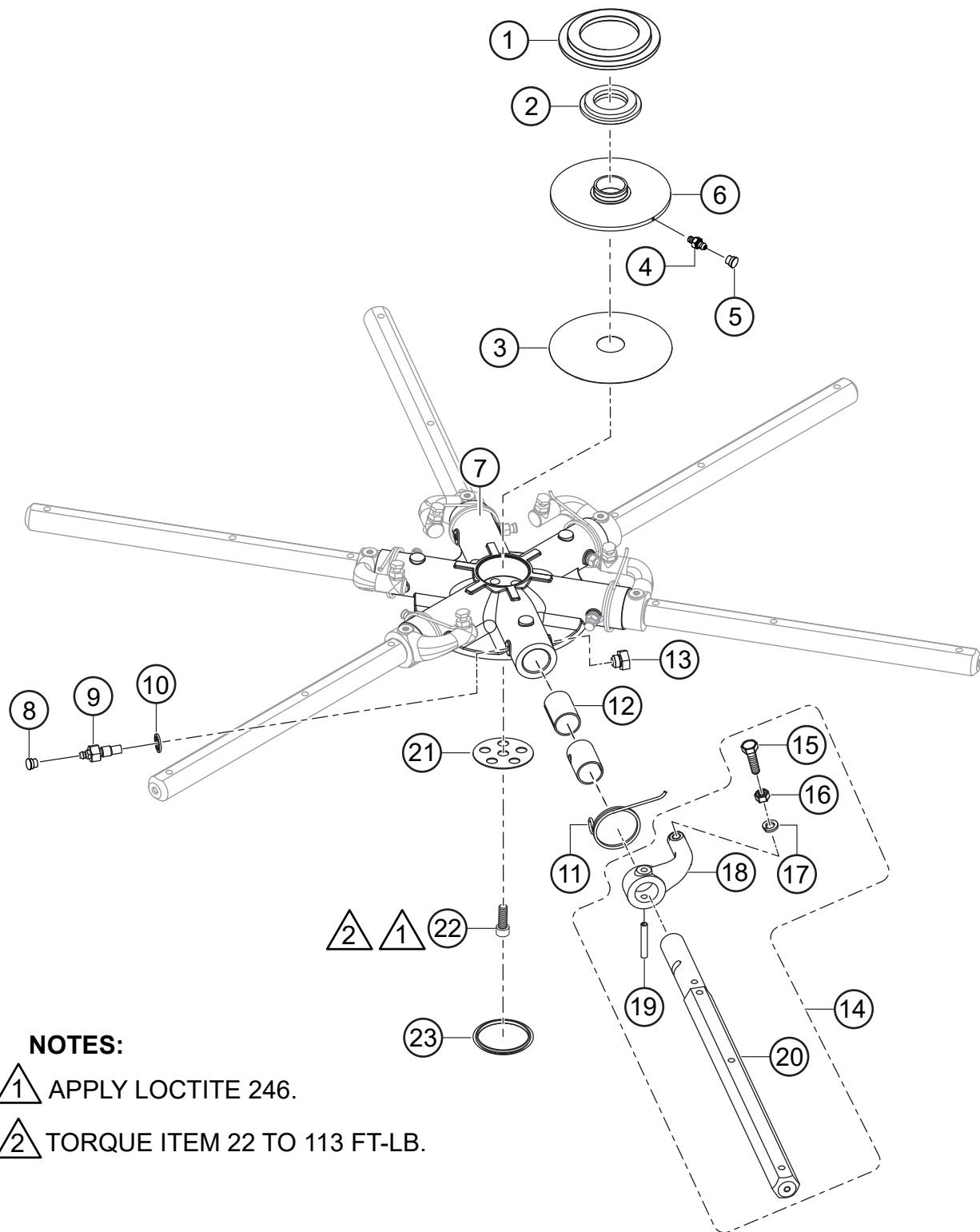
1 APPLY LOCTITE 246.

2 TORQUE ITEM 22 TO 113 FT-LB.

SPIDER ASSY. (RIGHT-SIDE)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	43089	COLLAR, BEARING EXTENDER	1	
2	12779	BEARING, 85MM X 130MM, FLANGED	1	
3	12250	PLATE, WEAR	1	
4	2621	FITTING, GREASE ZERK STR 1/4-28	2	
5	1162 A	CAP, GREASE ZERK	2	
6	12315	THRUST COLLAR W/ BUSHING	1	
7	48182	SPIDER PLATE, RD HUB	1	
8	1162 A	CAP, GREASE ZERK	6	
9	1322	SCREW, TROWEL ARM RETAINING	6	
10	1875	WASHER, INT. SHKP 3/8	6	
11	2143	SPRING, RS H ARM RETURN	6	
12	11039	BUSHING, TROWEL ARM 2 PIECE	12	
13	11602	SCREW, SHX 3/8-16 X 1/4	6	
14	32385	ARM ASSEMBLY, LONG RS	6	INCLUDES ITEMS W/%
15%	21031	SCREW HHC ROUNDED 7/16-14	6	
16%	07034-007	NUT, HEX JAM 7/16-14 PLATED	6	
17%	2955	WASHER, LOCK, 7/16 ZINC	6	
18%	21050	LEVER, TROWEL ARM RS	6	
19%	32045	PIN, COILED SPRING 5/16 X 2.00"	6	
20%	32383	ARM, TROWEL, LONG HD	6	
21	48183	WASHER, HARDENED M14 SPIDER HUB	1	
22	48184	SCREW, SHC, M14-2.0 X 30, 12.9.....	6	APPLY LOCTITE 246
23	43729	CAP PLUG, SPIDER HUB	1	

SPIDER ASSY. (LEFT-SIDE)



NOTES:

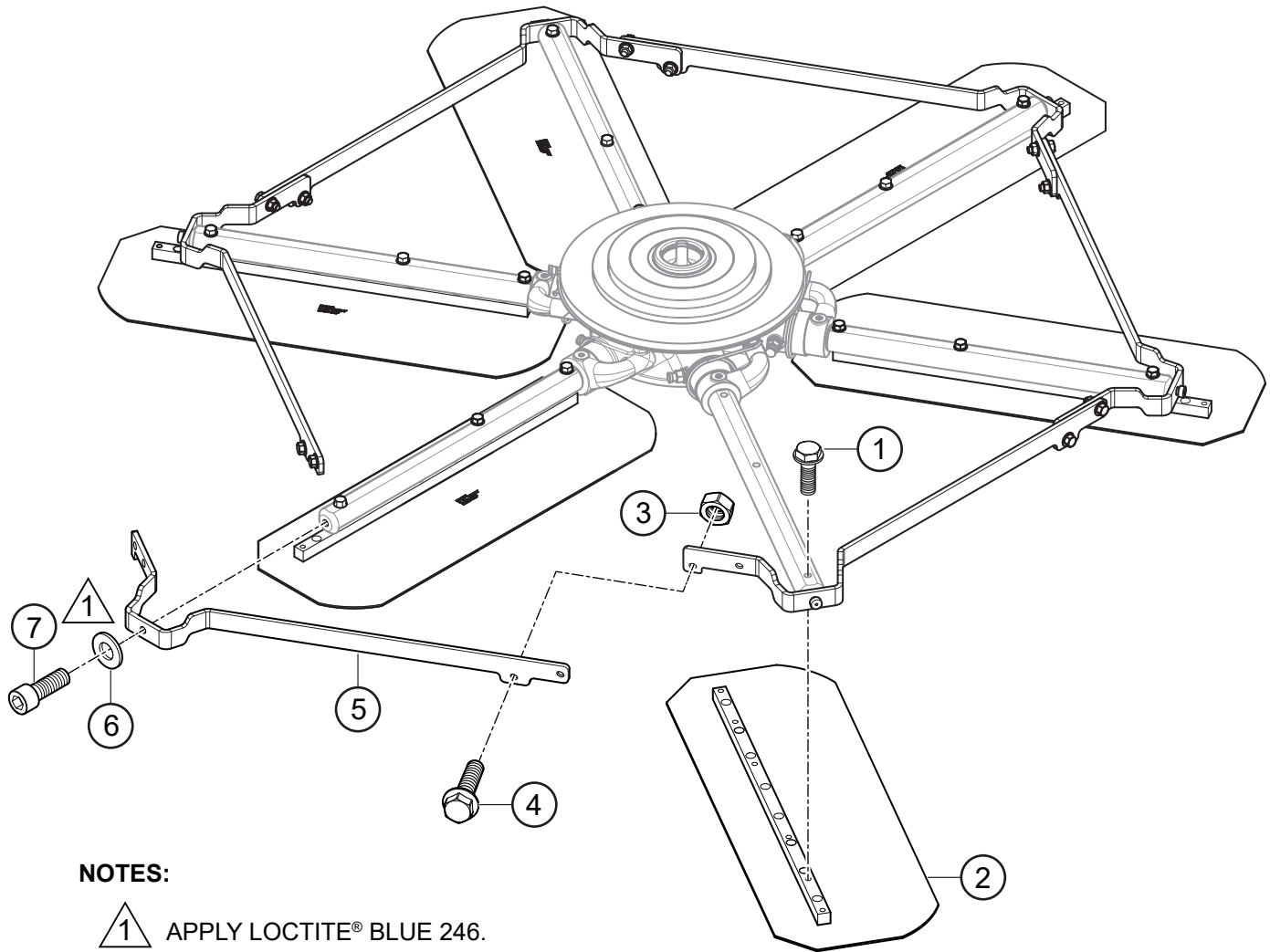
△1 APPLY LOCTITE 246.

△2 TORQUE ITEM 22 TO 113 FT-LB.

SPIDER ASSY. (LEFT-SIDE)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	43089	COLLAR, BEARING EXTENDER	1	
2	12779	BEARING, 85MM X 130MM, FLANGED	1	
3	12250	PLATE, WEAR	1	
4	2621	FITTING, GREASE ZERK STR 1/4-28	2	
5	1162 A	CAP, GREASE ZERK	2	
6	12315	THRUST COLLAR W/ BUSHING	1	
7	48182	SPIDER PLATE, RD HUB	1	
8	1162 A	CAP, GREASE ZERK	6	
9	1322	SCREW, TROWEL ARM RETAINING	6	
10	1875	WASHER, INT. SHKP 3/8	6	
11	9111	SPRING, LS H ARM RETURN	6	
12	11039	BUSHING, TROWEL ARM 2 PIECE	12	
13	11602	SCREW, SHX 3/8-16 X 1/4	6	
14	32384	ARM ASSEMBLY, LONG LS	6.....	INCLUDES ITEMS W/%
15%	21031	SCREW HHC ROUNDED 7/16-14	6	
16%	07034-007	NUT, HEX JAM 7/16-14 PLATED	6	
17%	2955	WASHER, LOCK, 7/16 ZINC	6	
18%	21049	LEVER, TROWEL ARM LS	6	
19%	32045	PIN, COILED SPRING 5/16 X 2.00"	6	
20%	32383	ARM, TROWEL, LONG HD	6	
21	48183	WASHER, HARDENED M14 SPIDER HUB	1	
22	48184	SCREW, SHC, M14-2.0 X 30, 12.9.....	6.....	APPLY LOCTITE 246
23	43729	CAP PLUG, SPIDER HUB	1	

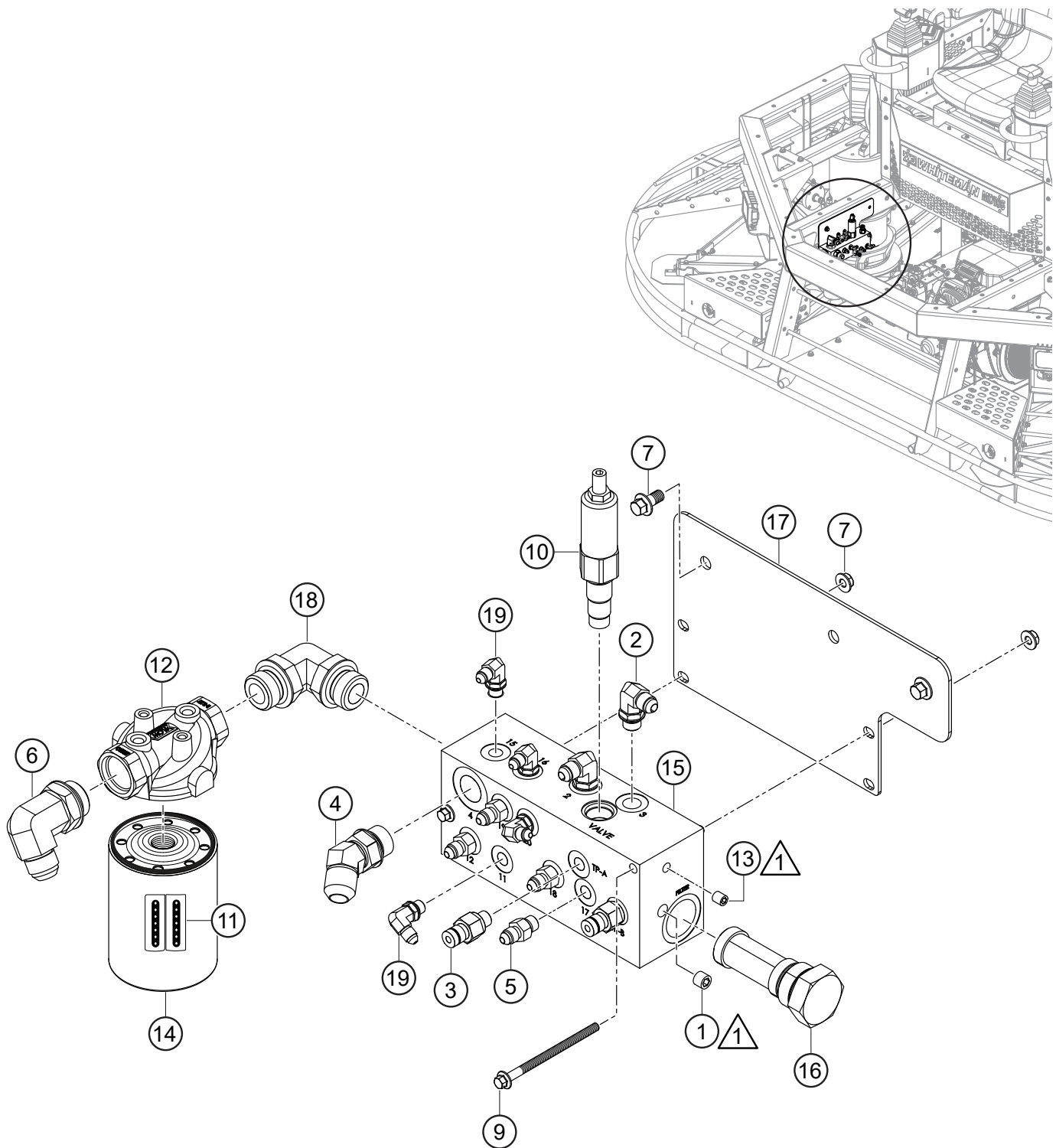
STABILIZER ASSY.



STABILIZER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	22174	SCREW, HHFS 5/16-18 X 1.75 GR 5	18	
2		BLADE, TROWEL EDU REV COMBO 8 X 16 ...6.....	6	CONTACT MQ UNIT SALES
3	23802	NUT, HEX. FLANGED M8-1.25	12	
4	42436	SCREW, HFS M8-1.25 X 25 GR 8.8	12	
5	43887	STRUT, STABILIZER GEN 4	6	
6	28275-001	WASHER, FLAT 5/16 USS HI-STRENGTH	6	
7	10382	BOLT, SHOULDER 3/8 X 3/8 LONG.....6.....	6	APPLY LOCTITE 246

HYDRAULIC FILTER AND MANIFOLD ASSY.



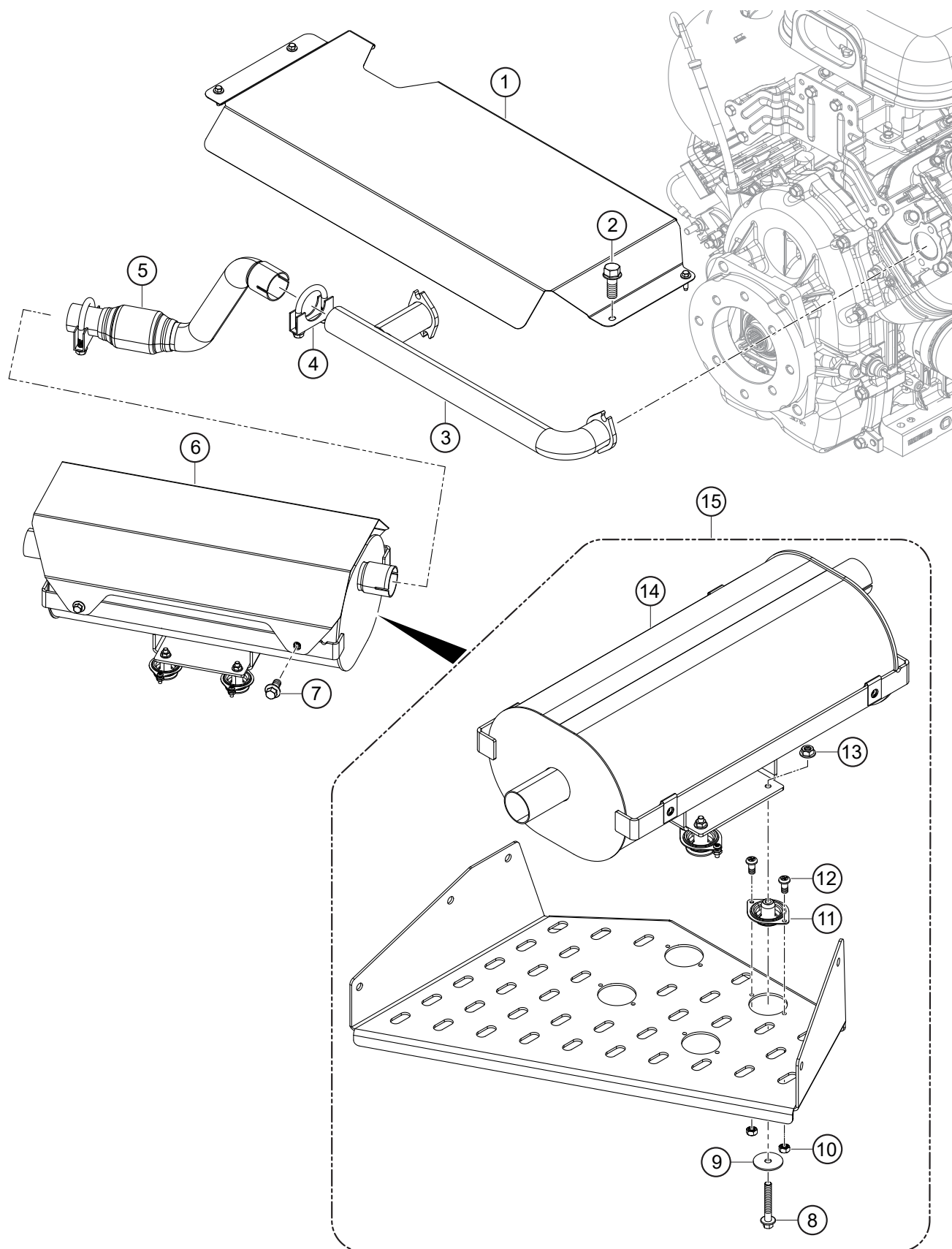
NOTES:

△ 1 APPLY VIBRA-TITE 440 ON ITEMS 1 AND 15.

HYDRAULIC FILTER AND MANIFOLD ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	2113	FITTING, PLUG 1/8MP HEX SKT HD	1	APPLY VIBRA-TITE 440
2	11722	FITTING, 90° 6MJ-6MO	2	
3	12546	FITTING, QD 4MO DIAGN.	2	
4	16336	FITTING, 45° 10MJ-10MO	1	
5	21095	FITTING, STR 4MJ-4MO	4	
6	22145	FITTING, 90° -12MO X -10MJ	1	
7	42342	SCREW, HFS, M8-1.25 X 16 GR 8.8	2	
8	42352	NUT, HEX. SERRATED-FLANGE, M6 -1.0	2	
9	43932	SCREW, HFS M6-1.0 X 90 GR 8.8	2	
10	45467	VALVE ASSY., PRESS. REDUC. STEERING	1	
11	45531	DECAL, TEMP IND, 86°F TO 194°F	1	
12	45624	HOUSING, FILTER, SAE-12 INLINE	1	
13	45643	FITTING, PLUG 1/16MP HEX. SKT. HD.....	1	APPLY VIBRA-TITE 440
14	45644	FILTER, HYDRAULIC 10 MICRON	1	
15	45835	MANIFOLD, HYDRAULIC	1	
16	45868	FILTER, MANIFOLD CARTRIDGE	1	
17	48628	BRACKET, HYD. MANIFOLD	1	
18	48646	FITTING, 12MO 12MO 90°	1	
19	368817	FITTING, 90° 4MJ - 4MO	4	

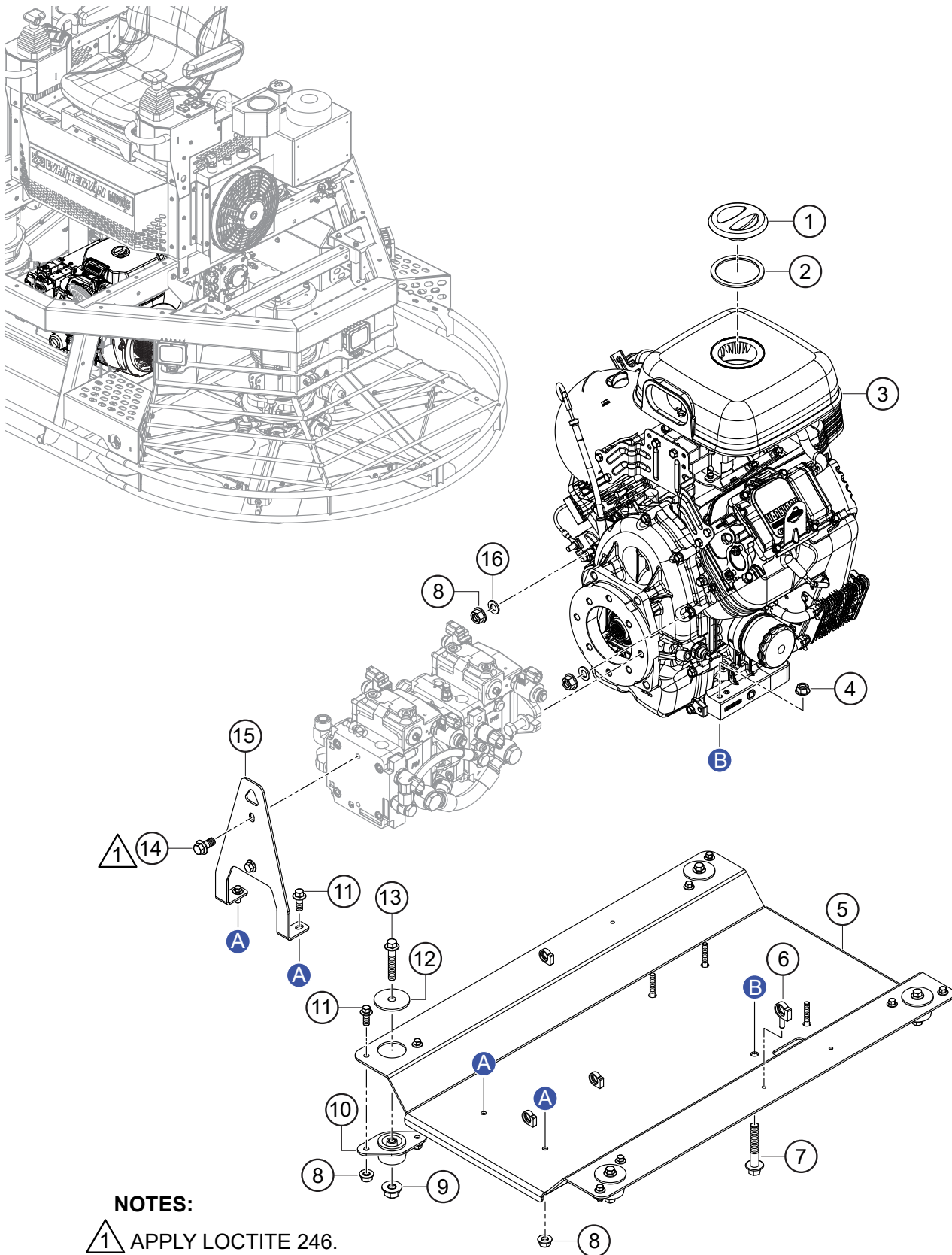
MUFFLER ASSY.



MUFFLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	48549	HEAT SHIELD, ENGINE	1	
2	42325	SCREW, HHC M6-1.0 X 20, CAP. WASHER	4	
3	48375	EXHAUST MANIFOLD, VANGUARD	1	
4	10855	CLAMP, 1-1/2 MUFFLER	2	
5	48376	MID-PIPE, VANGUARD EXHAUST	1	
6	48050	HEAT SHIELD, MUFFLER	1	
7	42342	SCREW, HFS, M8-1.25 X 16 GR 8.8	4	
8#	42349	SCREW, HFS M6-1.0 X 40 GR 8.8	4	
9#	10930	WASHER, FENDER 1/4 X 1-1/4	4	
10#	13287	NUT, NYLOC 8-32	8	
11#	52082	ISOLATOR, SILICONE PLATE MOUNT	4	
12#	1307	SCREW, PHP 8-32 X 1/2	8	
13#	42352	NUT, HEX, SERRATED-FLANGE, M6 -1 .0	4	
14#	48374	MUFFLER, VANGUARD	1	
15	48374-SK	MUFFLER SERVICE KIT.....	1.....	INCLUDES ITEMS W/#

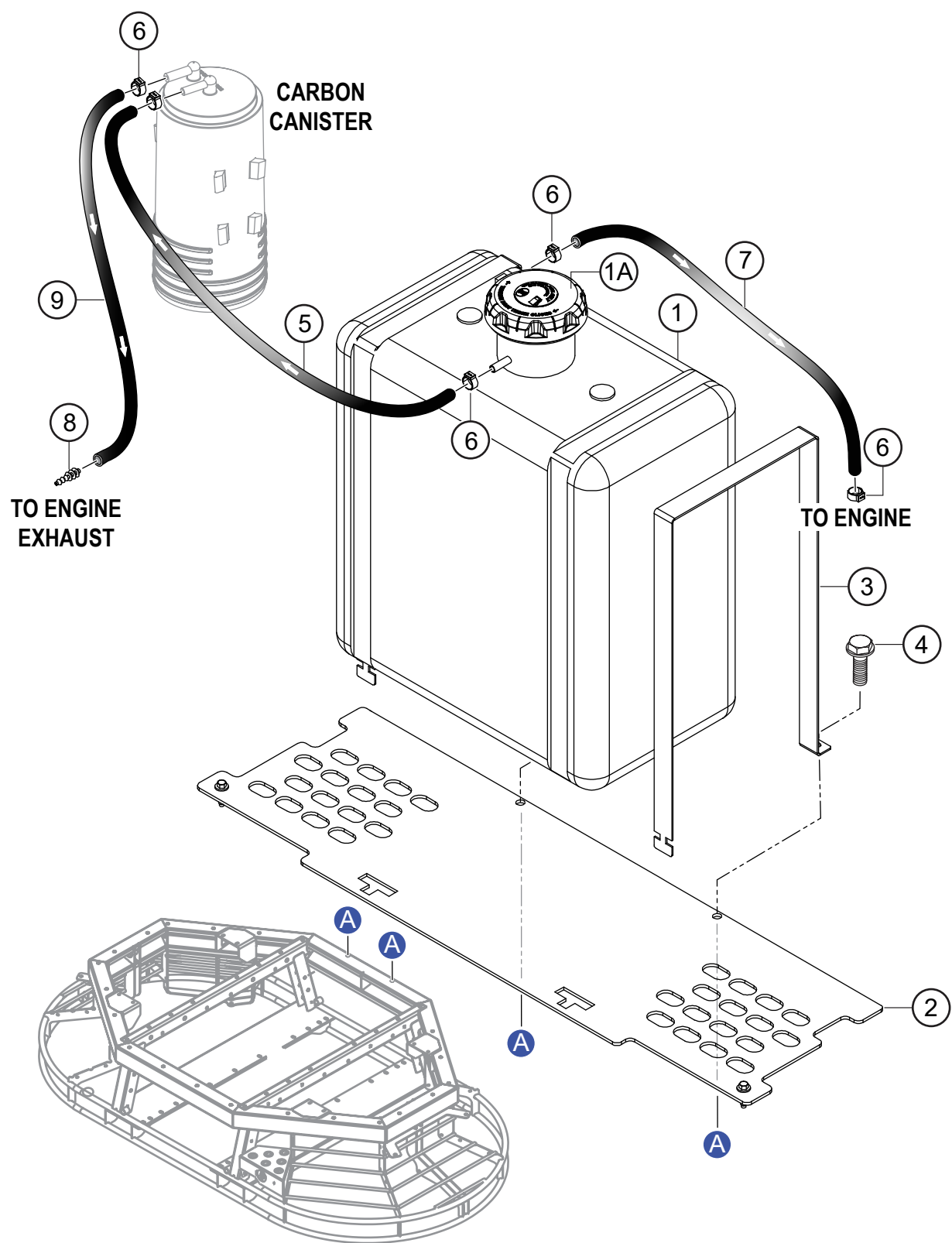
ENGINE ASSY.



ENGINE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	846008	KNOB, AIR CLEANER COVER	1	
2	52021	FOAM GASKET W/ ADHESIVE	1	
3	45758	ENGINE, VANGUARD EFI 40HP SPLINE	1	
4	23802	NUT, HEX FLANGED M8-1.25 SERRATED	16	
5	45812	ENGINE MOUNT	1	
6	23842	CLIP 1/2" WIRE LOOM	4	
7	9086	SCREW, HFS M8-1.25 X 45	4	
8	23802	NUT, HEX FLANGED M8-1.25 SERRATED	16	
9	42353	NUT, HEX FLANGE M10 -1.5 SERRATED	4	
10	45951	ISOLATOR, 90 LB	4	
11	42343	SCREW, HFS M8-1.25 X 20 GR 8.8	10	
12	48525	SNUB WASHER, 2" OD X 0.45" ID	4	
13	45882	SCREW, HFS M10-1.5 X 55	4	
14	45632	SCREW, HFS M10-1.5 X 20	2.....	APPLY LOCTITE 246
15	45863	BRACKET, PUMP SUPPORT	1	
16	25591	WASHER, M8	2	

FUEL TANK ASSY.



FUEL TANK ASSY.

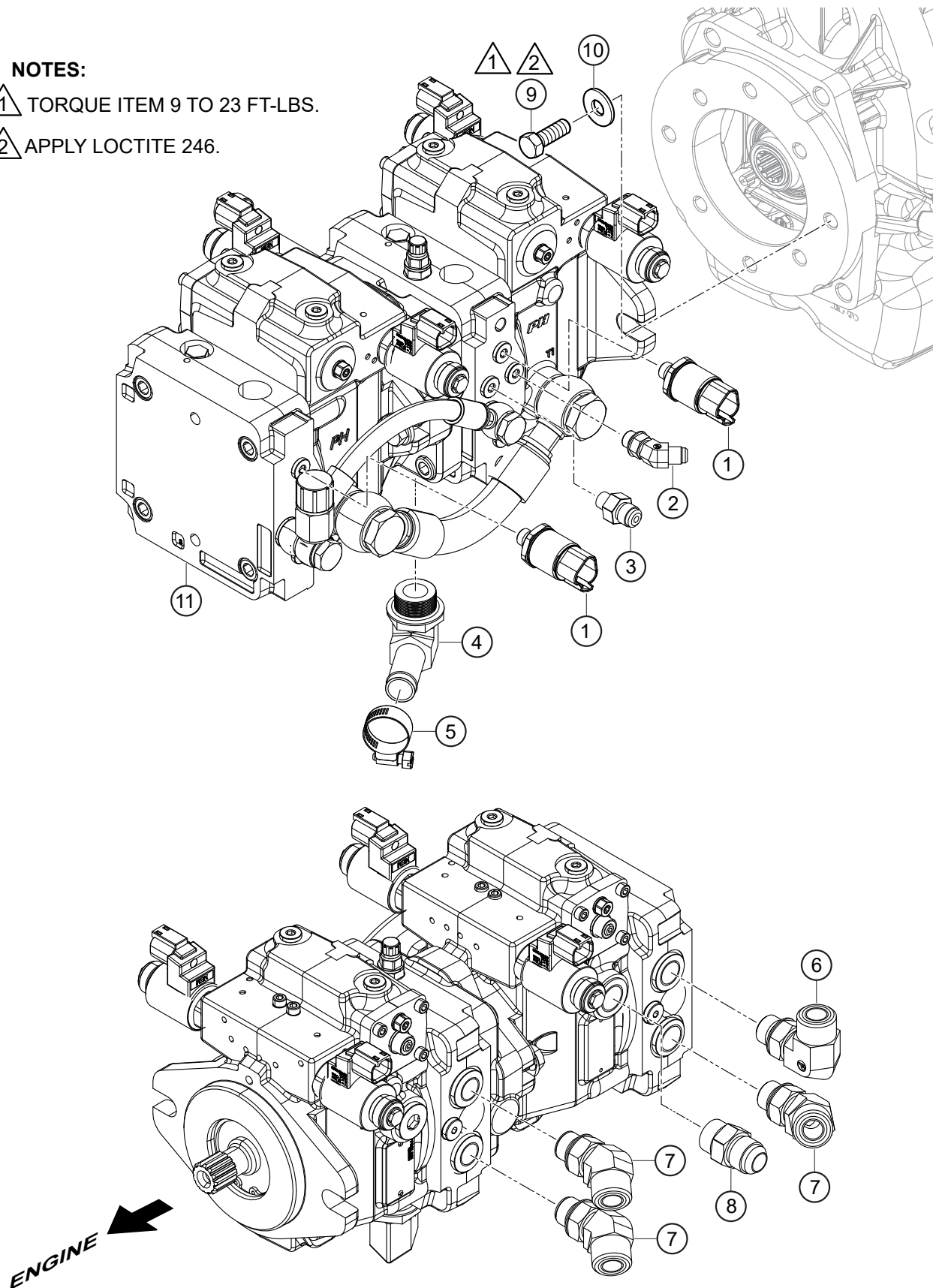
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	48040	FUEL TANK, 8 GAL. TRANSLUCENT	1.....	INCLUDES ITEMS W/#
1A	080176AE	CAP, 3.5" EPA FUEL	1	
2	45902	REAR PANEL	1	
3	48047	FUEL TANK STRAP	2	
4	42325	SCREW, HHC M6-1.0 X 20, CAP. WASHER	4	
5	60013	HOSE, FUEL (1.5 FT)	1	
6	22067	CLAMP, STEPLESS EAR 1/4" HOSE #138	5	
7	60013	HOSE, FUEL (3.75 FT)	1	
8	23966	FITTING, STR, BARB 5/16 TO 3/16 REDCR.	1	
9	60028	HOSE, FUEL (2.67 FT)	1	

HYDRAULIC PUMP ASSY.

NOTES:

1 TORQUE ITEM 9 TO 23 FT-LBS.

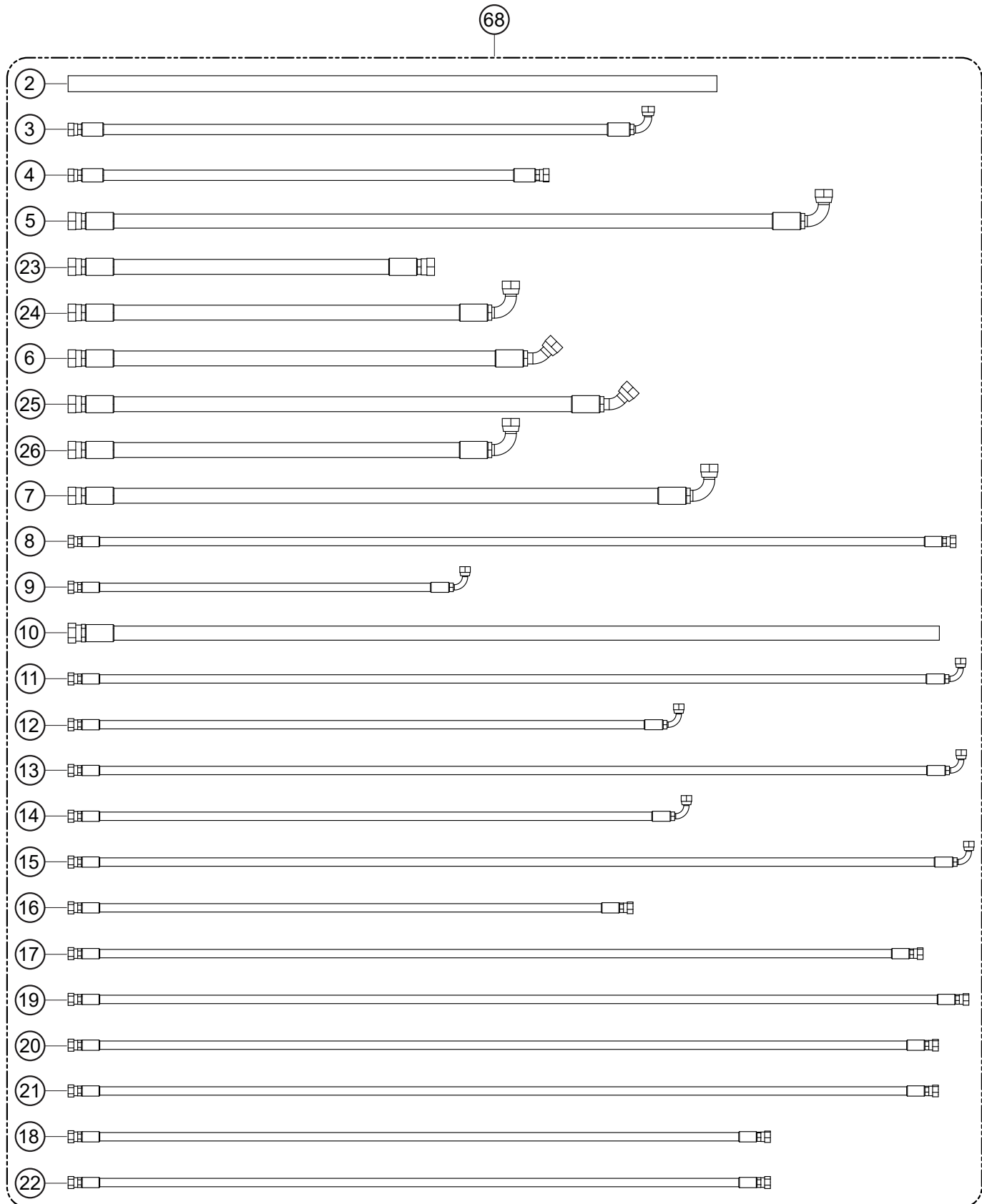
2 APPLY LOCTITE 246.



HYDRAULIC PUMP ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	43120	PRESSURE TRANSDUCER	2	
2	48509	FITTING, 45° 4MORB X 6MJIC	1	
3	11887	FITTING, STR 6MJ-4MO	1	
4	3461	FITTING, 90° 12BARB-12MO	1	
5	23119	CLAMP, HOSE WORM	1	
6	48512	FITTING, 90° 8MORB X 10MORF	1	
7	48511	FITTING, 45° 8MORB X 10MORF	3	
8	3365	FITTING, STR 10MJ-10MO	1	
9	16526	SCREW, HHC 1/2-13 X 1-3/4 GR 8	2	
10	933244	WASHER, FLAT SAE 1/2 GR 9 YZ	2	
11	45779	PUMP, PM10 14CC TANDEM, POCLAIN	1	

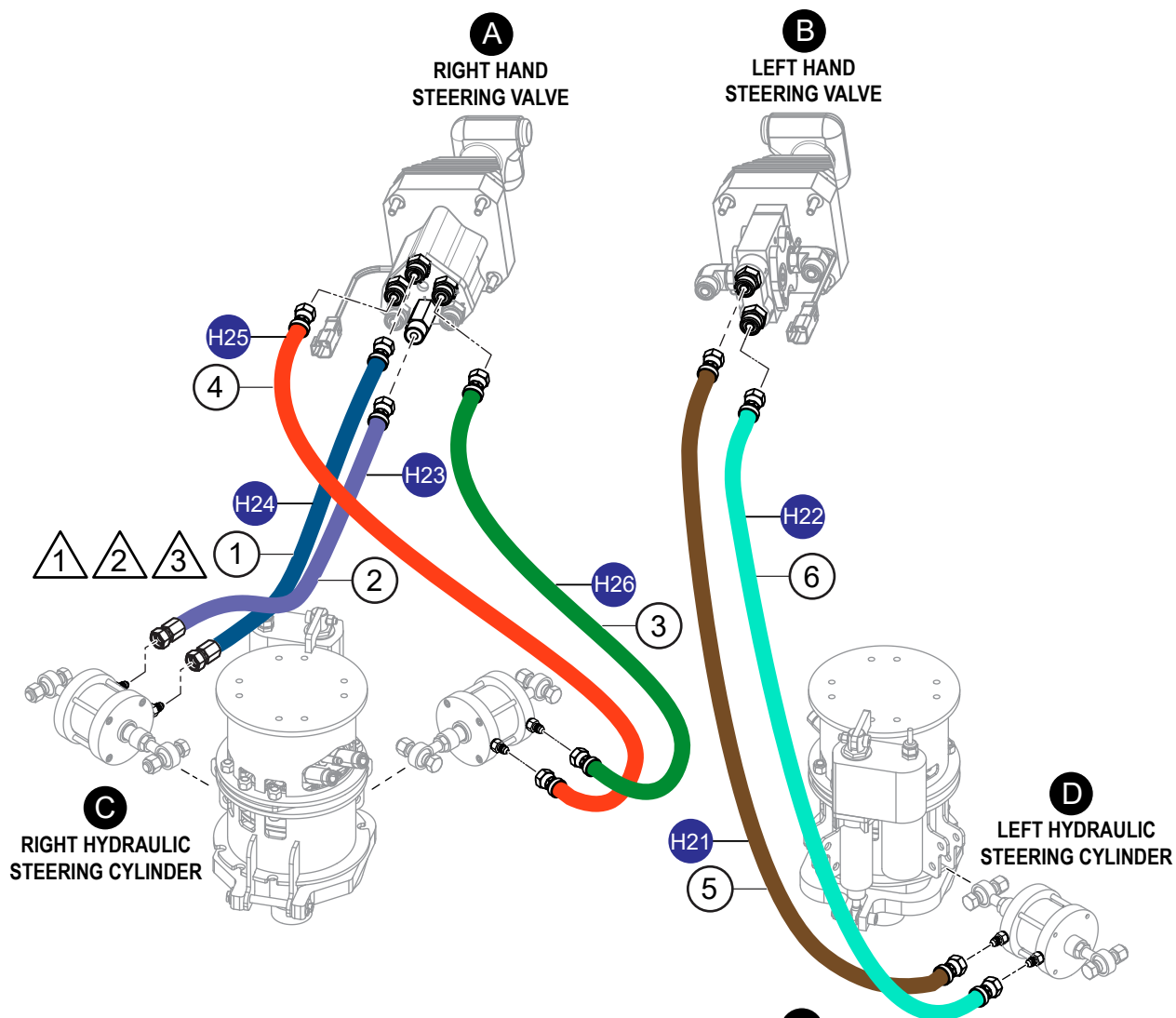
HYDRAULIC HOSE KIT ASSY.



HYDRAULIC HOSE KIT ASSY.

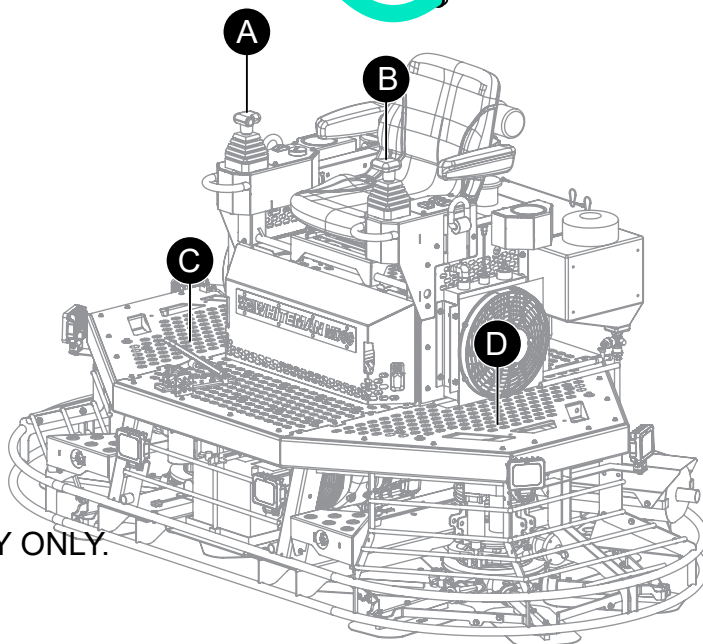
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	48484	HOSE KIT ASSEMBLY	1	INCLUDES ITEMS W/#
2#	48464	HOSE, 3/4 X 42.5	1	HOSE 1
3#	48465	HOSE ASSY., 3/8 X 38, -6FJIC X -6FJIC90	1	HOSE 2
4#	48466	HOSE ASSY., 3/8 X 31.5, -6FJIC X -6FJIC	1	HOSE 3
5#	48467	HOSE ASSY., 5/8 X 49.5, -10FJICX-10FJIC90	1	HOSE 4
6#	48470	HOSE ASSY., 5/8 X 32, -10FORFX-10FORF45	1	HOSE 7
7#	48472	HOSE ASSY., 5/8 X 43, -10FORF X -10FORF90	1	HOSE 10
8#	48473	HOSE ASSY., 1/4 X 70, -4FJIC X -4FJIC	1	HOSE 11
9#	48474	HOSE ASSY., 1/4 X 26, -4FJIC X -4FJIC90	1	HOSE 12
10#	48475	HOSE ASSY., 5/8 X 65, -10FJIC	1	HOSE 14
11#	48476	HOSE ASSY., 1/4 X 61, -4FJIC X -4FJIC90	1	HOSE 15
12#	48477	HOSE ASSY., 1/4 X 40, -4FJIC X -4FJIC90	1	HOSE 16
13#	48478	HOSE ASSY., 1/4 X 58.5, -4FJIC X -4FJIC90	1	HOSE 17
14#	48479	HOSE ASSY., 1/4 X 40.5 -4FJIC X -4FJIC90	1	HOSE 18
15#	48480	HOSE ASSY., 1/4 X 59, -4FJIC X -4FJIC90	1	HOSE 19
16#	48481	HOSE ASSY., 1/4 X 37, -4FJIC X -4FJIC	1	HOSE 20
17#	48482	HOSE ASSY., 1/4 X 56, -4FJIC X -4FJIC	1	HOSE 21
18#	48483	HOSE ASSY., 1/4 X 46, -4FJIC X -4FJIC	1	HOSE 25
19#	48554	HOSE ASSY., 1/4 X 59, -4FJIC X -4FJIC	1	HOSE 22
20#	48555	HOSE ASSY., 1/4 X 57, -4FJIC X -4FJIC	1	HOSE 23
21#	48556	HOSE ASSY., 1/4 X 57, -4FJIC X -4FJIC	1	HOSE 24
22#	48557	HOSE ASSY., 1/4 X 46, -4FJIC X -4FJIC	1	HOSE 26
23#	52045	HOSE ASSY., 5/8 X 24, -10FORF X -10FORF	1	HOSE 5
24#	52046	HOSE ASSY., 5/8 X 29, -10FORF X -10FORF90	1	HOSE 6
25#	52047	HOSE ASSY., 5/8 X 37, -10FORF X -10FORF45	1	HOSE 8
26#	52048	HOSE ASSY., 5/8 X 29, -10FORF X -10FORF90	1	HOSE 9

HYDRAULIC HOSE ASSY. (HYD. STEERING CYLINDERS)



NOTES:

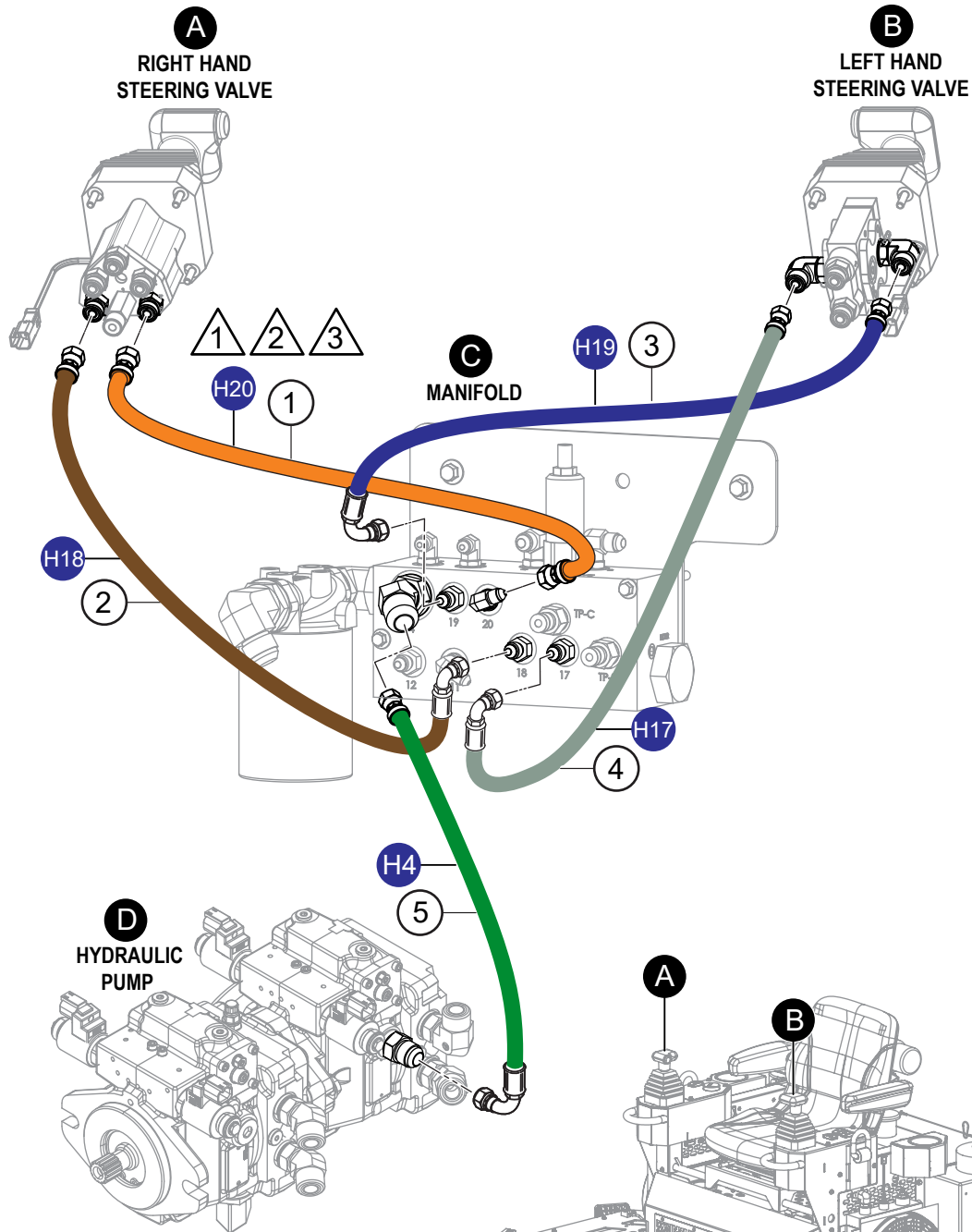
- 1 SEE HYD. HOSE KIT ASSY.
APPLIES TO ALL HYDRAULIC HOSES.
- 2 HOSE COLORS SHOWN FOR CLARITY ONLY.
- 3 FOR HYDRAULIC DIAGRAM
SEE OPERATION MANUAL.



HYDRAULIC HOSE ASSY. (HYD. STEERING CYLINDERS)

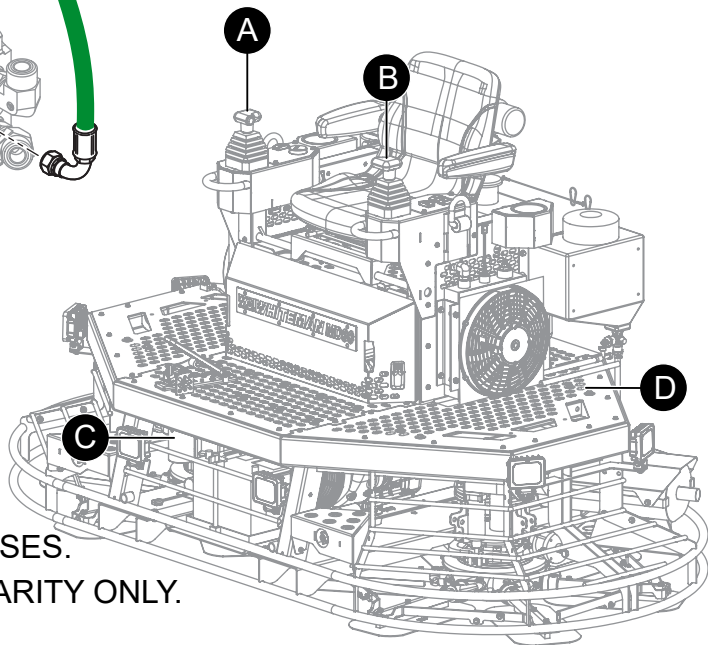
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	48556	HOSE ASSY., 1/4 X 57, -4FJIC X -4FJIC	1	HOSE 24
2	48555	HOSE ASSY., 1/4 X 57, -4FJIC X -4FJIC	1	HOSE 23
3	48557	HOSE ASSY., 1/4 X 46, -4FJIC X -4FJIC	1	HOSE 26
4	48483	HOSE ASSY., 1/4 X 46, -4FJIC X -4FJIC	1	HOSE 25
5	48482	HOSE ASSY., 1/4 X 56, -4FJIC X -4FJIC	1	HOSE 21
6	48554	HOSE ASSY., 1/4 X 59, -4FJIC X -4FJIC	1	HOSE 22

HYDRAULIC HOSE ASSY. (MANIFOLD)



NOTES:

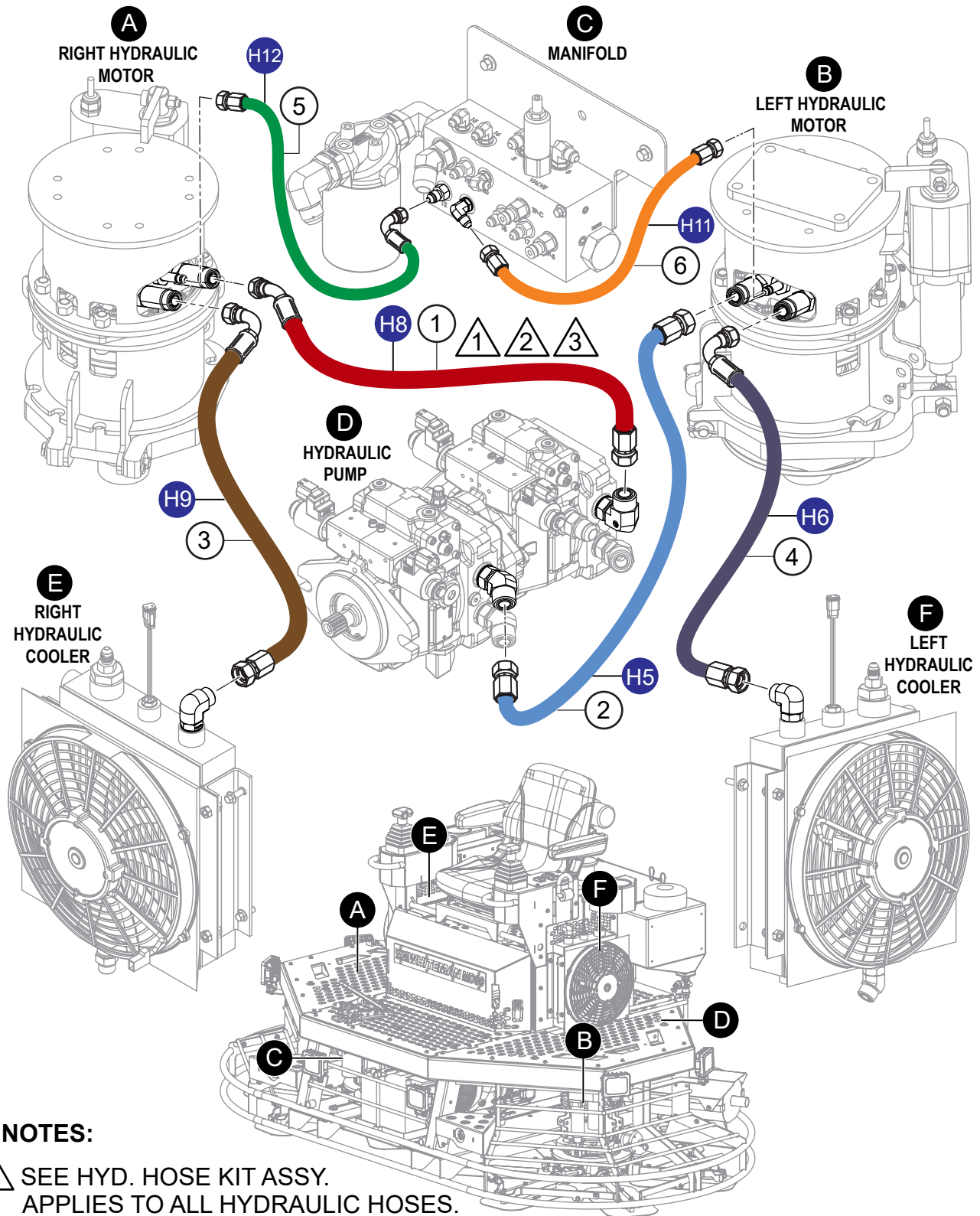
- ① SEE HYD. HOSE KIT ASSY.
APPLIES TO ALL HYDRAULIC HOSES.
- ② HOSE COLORS SHOWN FOR CLARITY ONLY.
- ③ FOR HYDRAULIC DIAGRAM
SEE OPERATION MANUAL.



HYDRAULIC HOSE ASSY. (MANIFOLD)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	48481	HOSE ASSY., 1/4 X 37, -4FJIC X -4FJIC	1	HOSE 20
2	48479	HOSE ASSY., 1/4 X 40.5 -4FJIC X -4FJIC90	1	HOSE 18
3	48480	HOSE ASSY., 1/4 X 59, -4FJIC X -4FJIC90	1	HOSE 19
4	48478	HOSE ASSY., 1/4 X 58.5, -4FJIC X -4FJIC90	1	HOSE 17
5	48467	HOSE ASSY., 5/8 X 49.5, -10FJICX-10FJIC90	1	HOSE 4

HYDRAULIC HOSE ASSY. (HYDRAULIC MOTORS)



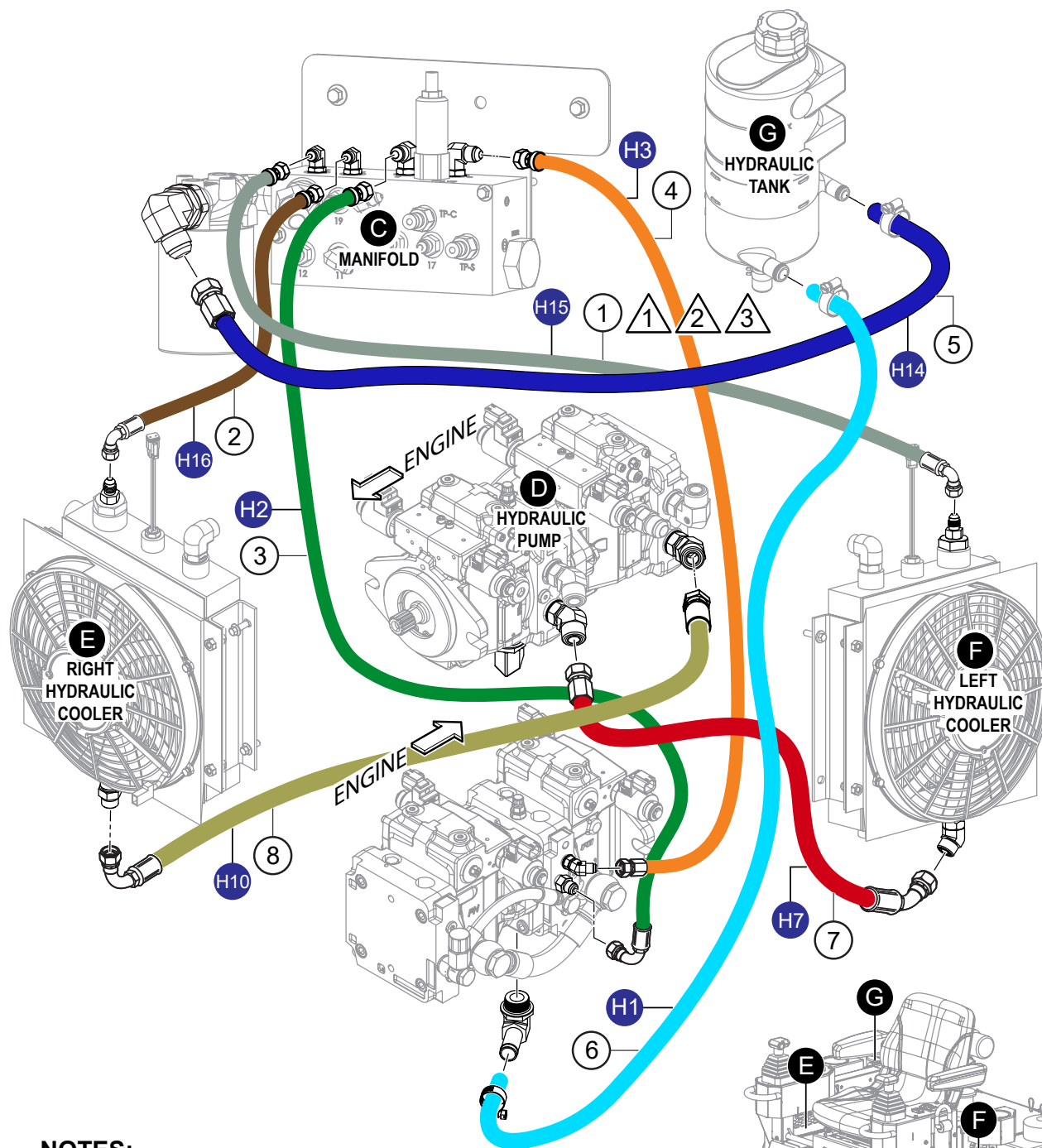
NOTES:

- 1 SEE HYD. HOSE KIT ASSY.
APPLIES TO ALL HYDRAULIC HOSES.
- 2 HOSE COLORS SHOWN FOR CLARITY ONLY.
- 3 FOR HYDRAULIC DIAGRAM
SEE OPERATION MANUAL.

HYDRAULIC HOSE ASSY. (HYDRAULIC MOTORS)

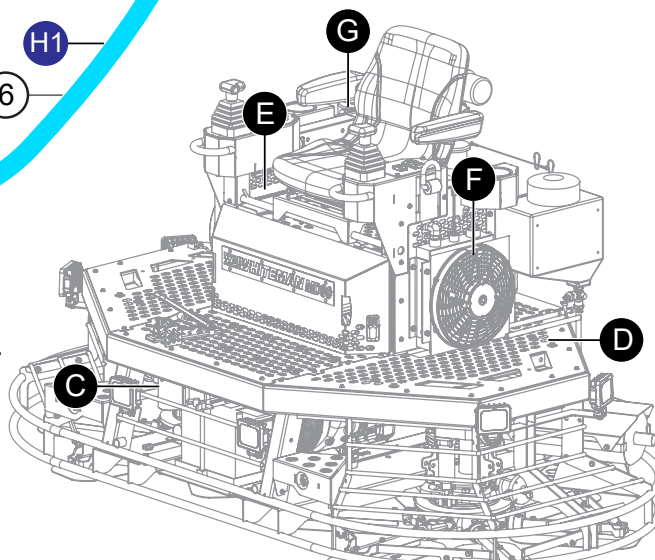
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	52047	HOSE ASSY., 5/8 X 37, -10FORF X -10FORF45.....	1	HOSE 8
2	52045	HOSE ASSY., 5/8 X 24, -10FORF X -10FORF.....	1	HOSE 5
3	52048	HOSE ASSY., 5/8 X 29, -10FORF X -10FORF90.....	1	HOSE 9
4	52046	HOSE ASSY., 5/8 X 29, -10FORF X -10FORF90.....	1	HOSE 6
5	48474	HOSE ASSY., 1/4 X 26, -4FJIC X -4FJIC90	1	HOSE 12
6	48473	HOSE ASSY., 1/4 X 70, -4FJIC X -4FJIC	1	HOSE 11

HYDRAULIC HOSE ASSY. (HYD. PUMP/COOLER/TANK)



NOTES:

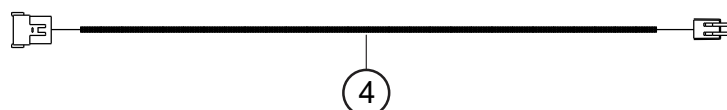
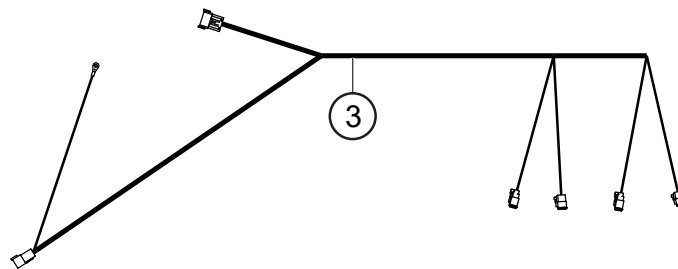
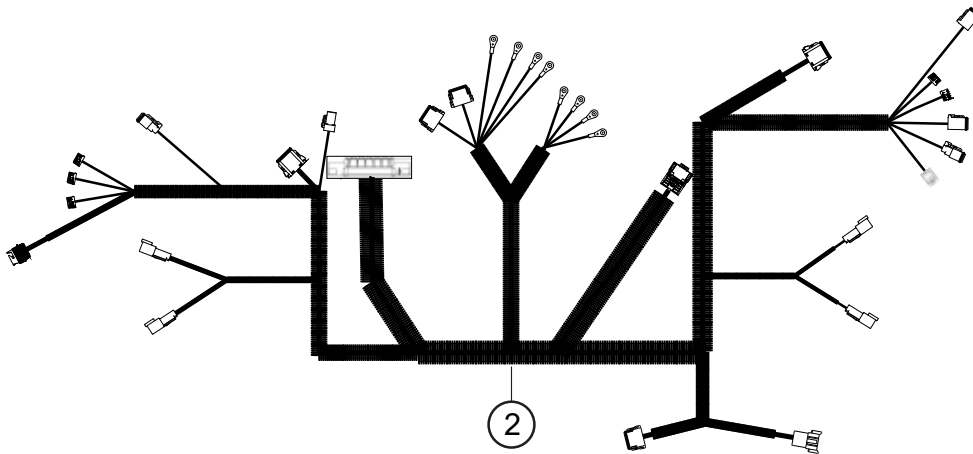
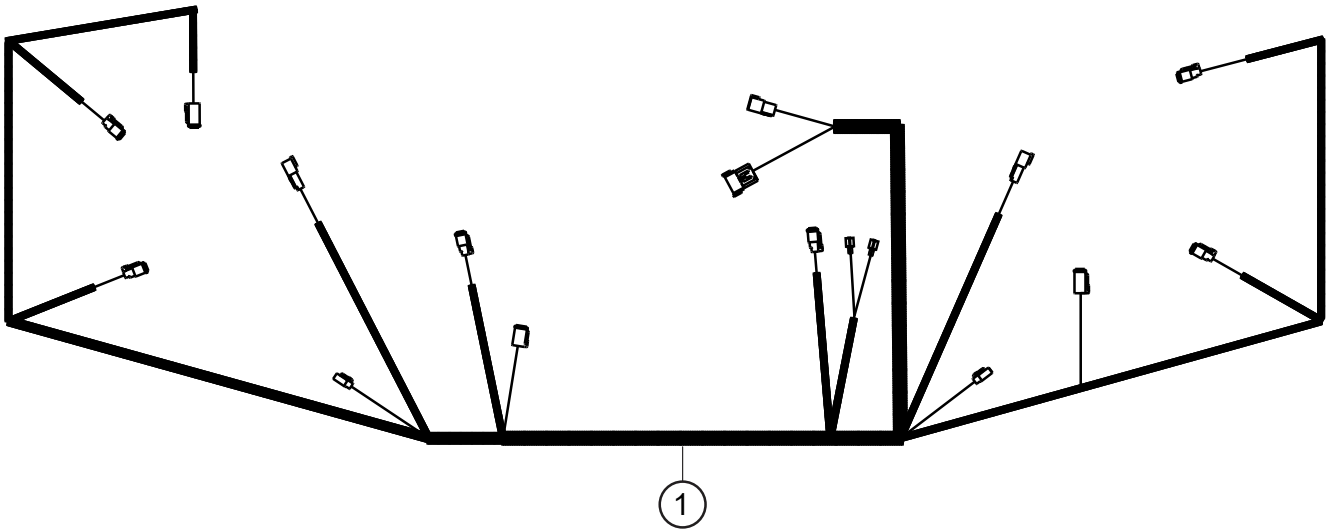
- ① SEE HYD. HOSE KIT ASSY.
APPLIES TO ALL HYDRAULIC HOSES.
- ② HOSE COLORS SHOWN FOR CLARITY ONLY.
- ③ FOR HYDRAULIC DIAGRAM
SEE OPERATION MANUAL.



HYDRAULIC HOSE ASSY. (HYD. PUMP/COOLER/TANK)

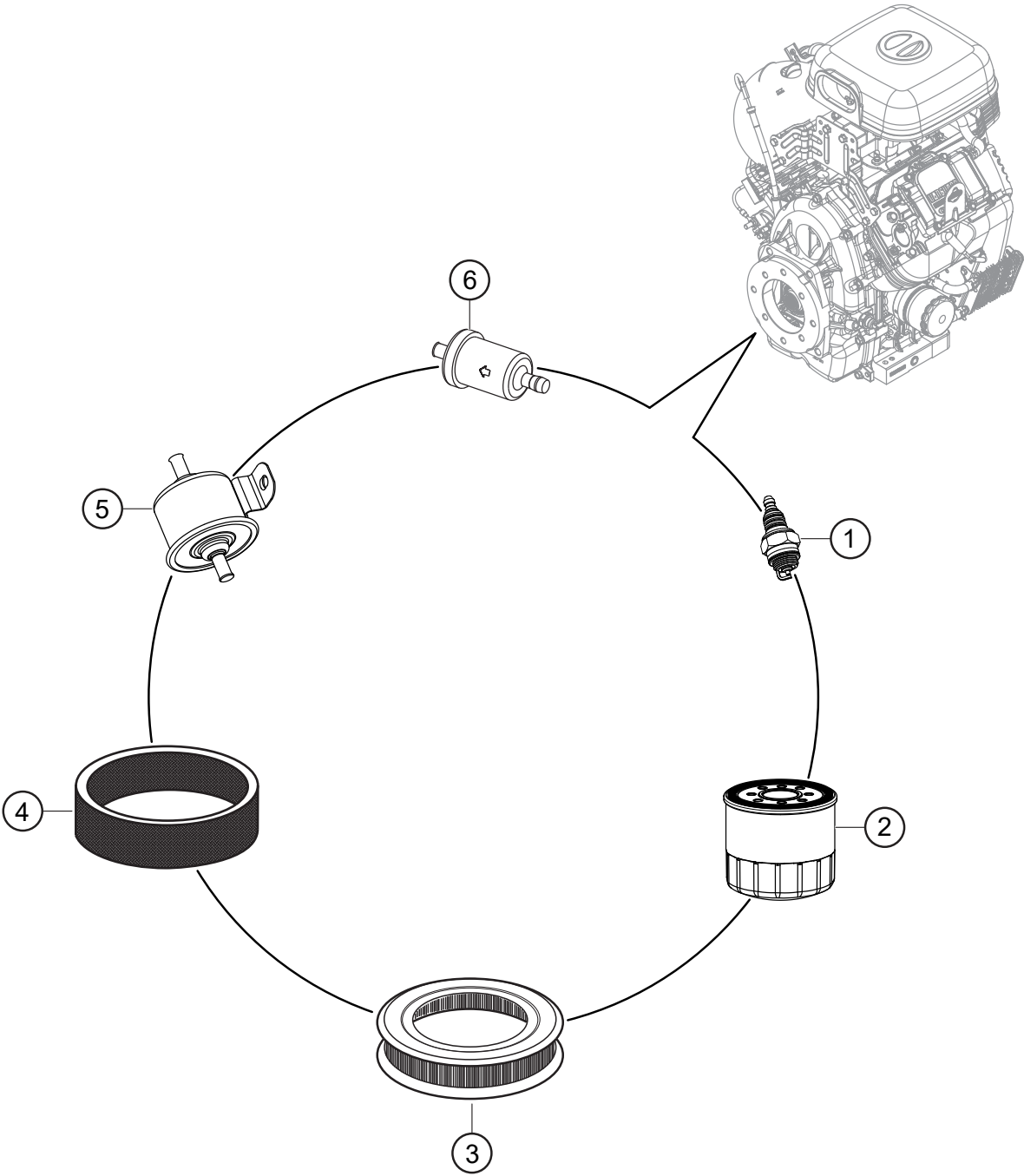
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	48476	HOSE ASSY., 1/4 X 61, -4FJIC X -4FJIC90	1	HOSE 15
2	48477	HOSE ASSY., 1/4 X 40, -4FJIC X -4FJIC90	1	HOSE 16
3	48465	HOSE ASSY., 3/8 X 38, -6FJIC X -6FJIC90	1	HOSE 2
4	48466	HOSE ASSY., 3/8 X 31.5, -6FJIC X -6FJIC	1	HOSE 3
5	48475	HOSE ASSY., 5/8 X 65, -10FJIC	1	HOSE 14
6	48464	HOSE, 3/4 X 42.5	1	HOSE 1
7	48470	HOSE ASSY., 5/8 X 32, -10FORFX-10FORF45.....	1	HOSE 7
8	48472	HOSE ASSY., 5/8 X 43, -10FORF X -10FORF90.....	1	HOSE 10

HARNESS ASSY.



HARNESS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	48447	HARNESS, MAIN FRAME	1	
2	48440	HARNESS, MAIN	1	
3	48443	HARNESS, ENGINE	1	
4	48405	HARNESS, SEAT SWITCH	1	



ENGINE SERVICE PARTS

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	792015	PLUG, SPARK	2	
2	842921	FILTER, OIL	1	
3	692519	FILTER, A/C CARTRIDGE	1	
4	692520	FILTER, PRE CLEANER	1	
5	846824	PUMP, FUEL	1	
6	845125	FILTER, FUEL	1	

PARTS MANUAL

HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL
NUMBER ON-HAND WHEN CALLING

UNITED STATES

Multiquip Inc.

(310) 537- 3700
6141 Katella Avenue Suite 200
Cypress, CA 90630
E-MAIL: mq@multiquip.com
WEBSITE: www.multiquip.com

CANADA

Multiquip

(450) 625-2244
4110 Industriel Boul.
Laval, Quebec, Canada H7L 6V3
E-MAIL: infocanada@multiquip.com

UNITED KINGDOM

Multiquip (UK) Limited Head Office

0161 339 2223
Unit 2, Northpoint Industrial Estate, Globe Lane,
Dukinfield, Cheshire SK16 4UJ
E-MAIL: sales@multiquip.co.uk

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PN: 48712