

Parts Manual

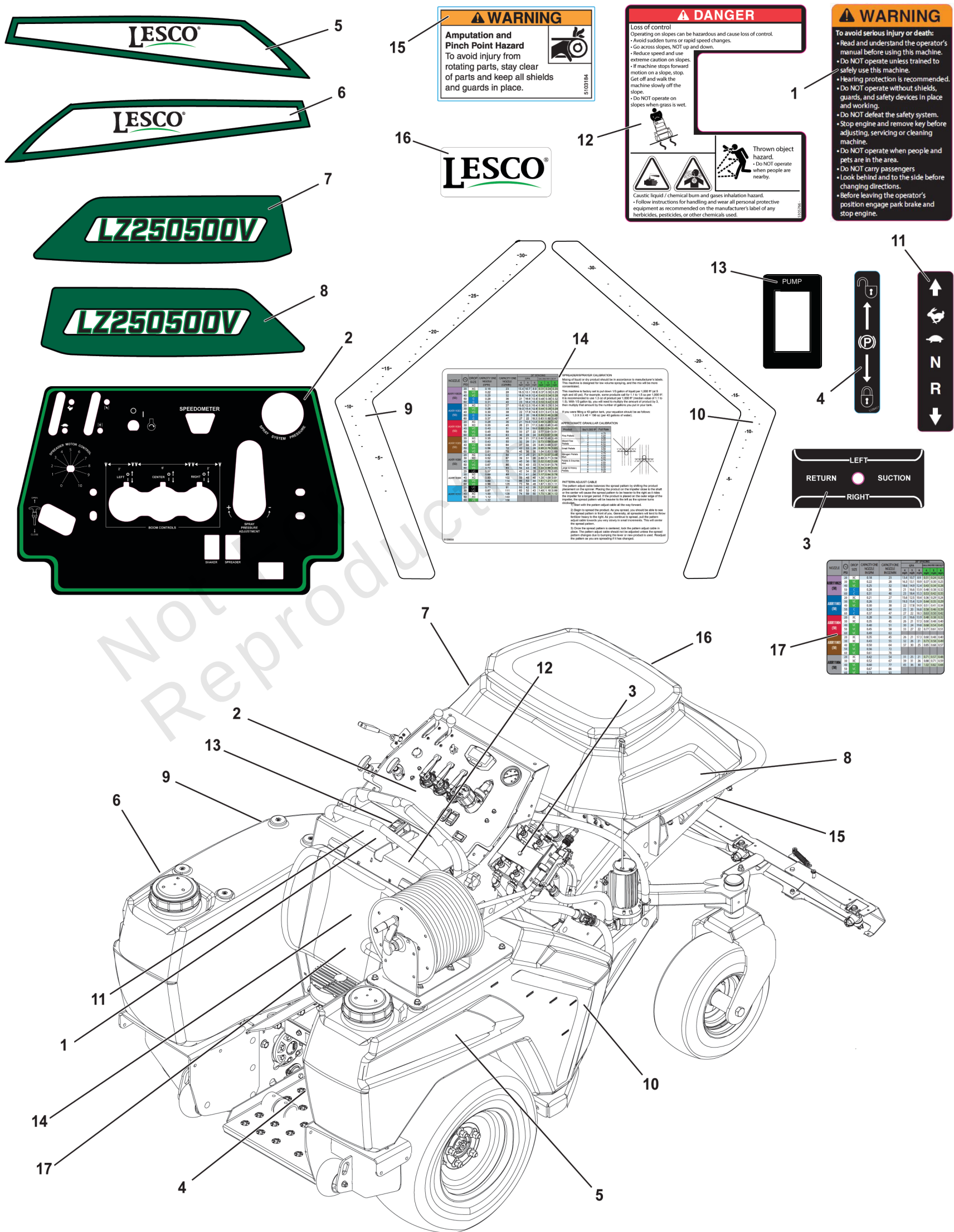
Mfg. No: LZ250500V
Ranger 46"

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Decal Group

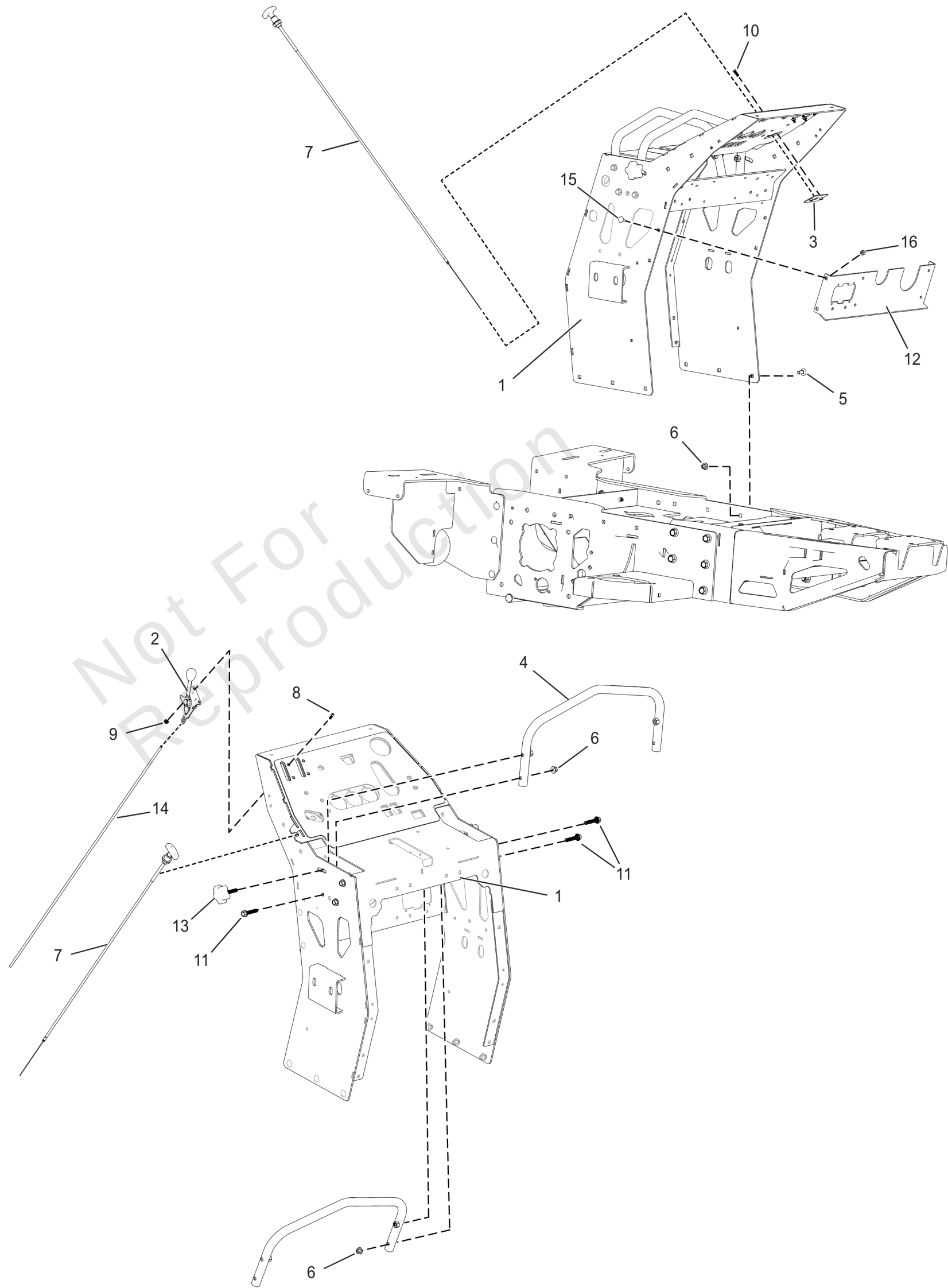
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Decal Group

REF NO	PART NO	QTY	DESCRIPTION
1	5106708	1	DECAL, WARNING
2	5109932	1	DECAL, CONSOLE UPPER RANGER
3	5109549	1	DECAL, TANK SELECTION
4	5108417	1	DECAL, PARK BRAKE, VERTICAL
5	5110437	1	DECAL, LH TANK BRANDING RANGER
6	5110438	1	DECAL, RH TANK BRANDING RANGER
7	5110435	1	DECAL, LH HOPPER LZ250500V BRANDING
8	5110436	1	DECAL, RH HOPPER LZ250500V BRANDING
9	5110441	1	DECAL, RANGER 46 LH TANK MARKING
10	5110442	1	DECAL, RANGER 46 RH TANK MARKING
11	5106706	2	DECAL, MOTION CONTROL
12	5105766	1	DECAL, DANGER
13	5108504	1	DECAL, SPRAY PUMP ACTIVATION
14	5108659	1	DECAL, CALIBRATION CHART
15	5103184	4	DECAL, WARNING, HAND IN BELT, ENG ONLY
16	5109590	1	DECAL, 2.75" x 6.14" LESCO
17	5110095	1	DECAL, PDM RANGER



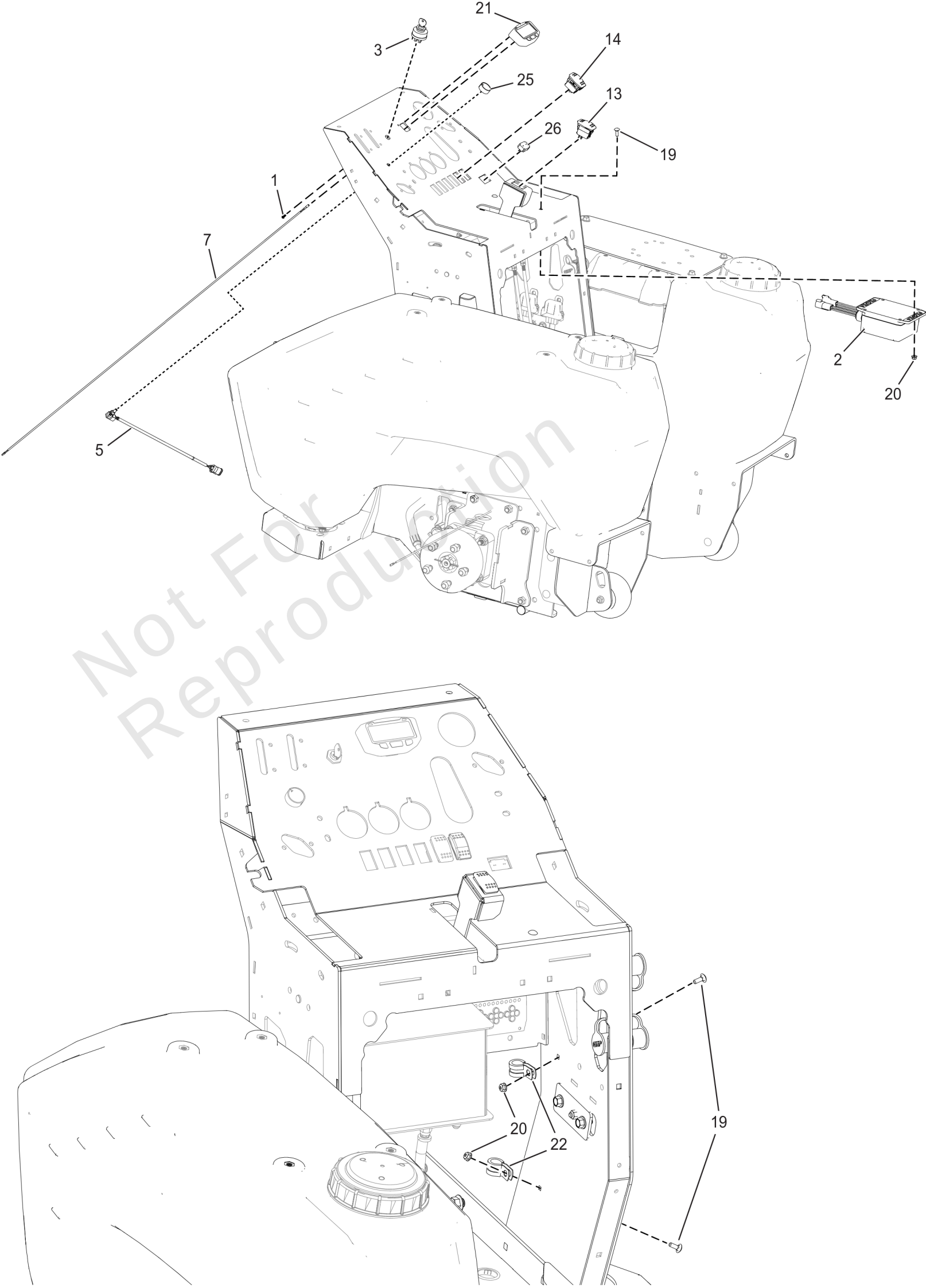
Drive Controls

REF NO	PART NO	QTY	DESCRIPTION
1	5423023	1	WELD, RANGER CONSOLE 46
2	5101995	2	LEVER, HEAVY DUTY, THROTTLE CONTROL
3	5420019	1	PLATE, HOPPER CONTROL VOYAGER
4	5421271	2	WELD, SPEED CONTROL STOP
5	5107639	6	BLT-RDHDSQNK, .375"-16 X 1.000" SS188
6	5107638	10	NUT-HEX-NYLK, FLG .375"-16 SS188
7	5109987	2	CABLE, TURN-TO-LOCK 36.5" LONG
8	5107656	4	SCR-CAP, SBH #12-24 X .750" SS188
9	5107646	4	NUT-HEX, KEPS #12-24 SS188
10	5025717	2	SCR-CAP, SBH .250-20 X .438" SS188
11	5107632	6	SCR-CAP, HSWH .375"-16 X 1.750" SS188
12	5422673	1	BRKT, FRONT CONSOLE STIFFENER
13	5110378	2	KNOB, 3/8 STATIONARY CONTROL BAR
14	5101074	2	CABLE, THROTTLE, 40"
15	5107688	4	BLT-RDHDSQNK, .3125"-18 X .750" SS188
16	5105992	4	NUT-HEX-NYLK, 0.3125"-18 SS188

Electrical Group (1)

Note: Unless noted otherwise, use the standard torque specifications

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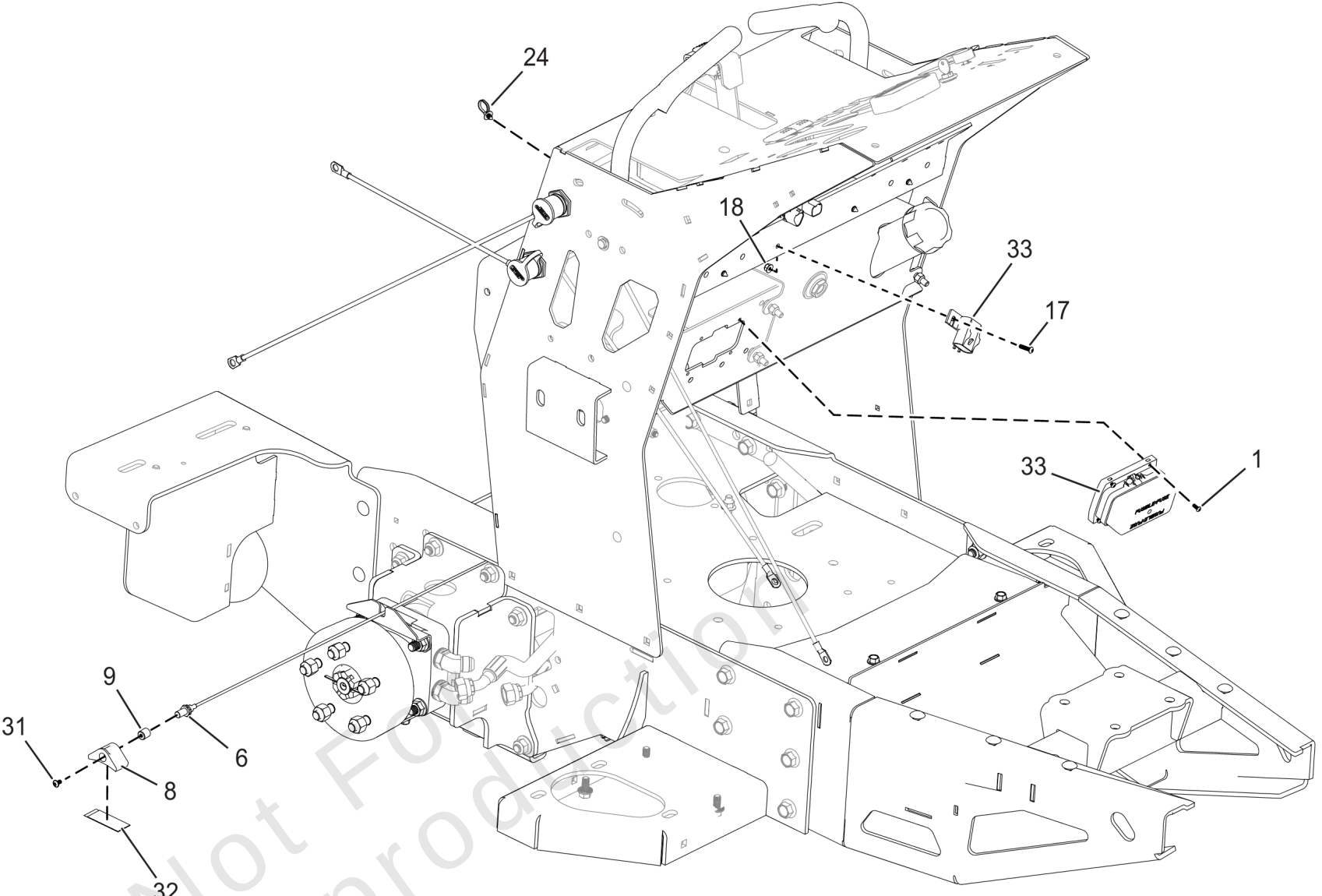
Electrical Group (1)

REF NO	PART NO	QTY	DESCRIPTION
1	5108098	2	SCR-CAP, SBH M4-0.7 X 10MM SS188
2	5421558	1	ASSEMBLY, DC MOTOR CONTROL
3	5020927	1	SWITCH, IGNITION, 6 POST
5	5109826	1	POTENTIOMETER, 10K OHM, 11 DETENT
7	5108653	1	CABLE EXTENSION, SPEED SENSOR, 48"
13	5109999	2	SWITCH, V1D1S00B-AZC11-000 (ON/OFF)
14	5110000	1	SWITCH, V2D1S00B-AZC11-000 ((ON)/OFF)
19	5108774	4	BLT-RDHDSQNK .250"-20 X .750" SS188
20	5107655	4	NUT-HEX-NYLK, FLG .250"-20 SS188
21	5107690	1	DISPLAY, CONSOLE
22	5110468	2	CLAMP, P LOOM Ø.750, .406" MH
25	5106693	1	KNOB, DART SPEED CONTROL
26	1731185	1	HOUR METER, Digital, No Alarms

Electrical Group (2)

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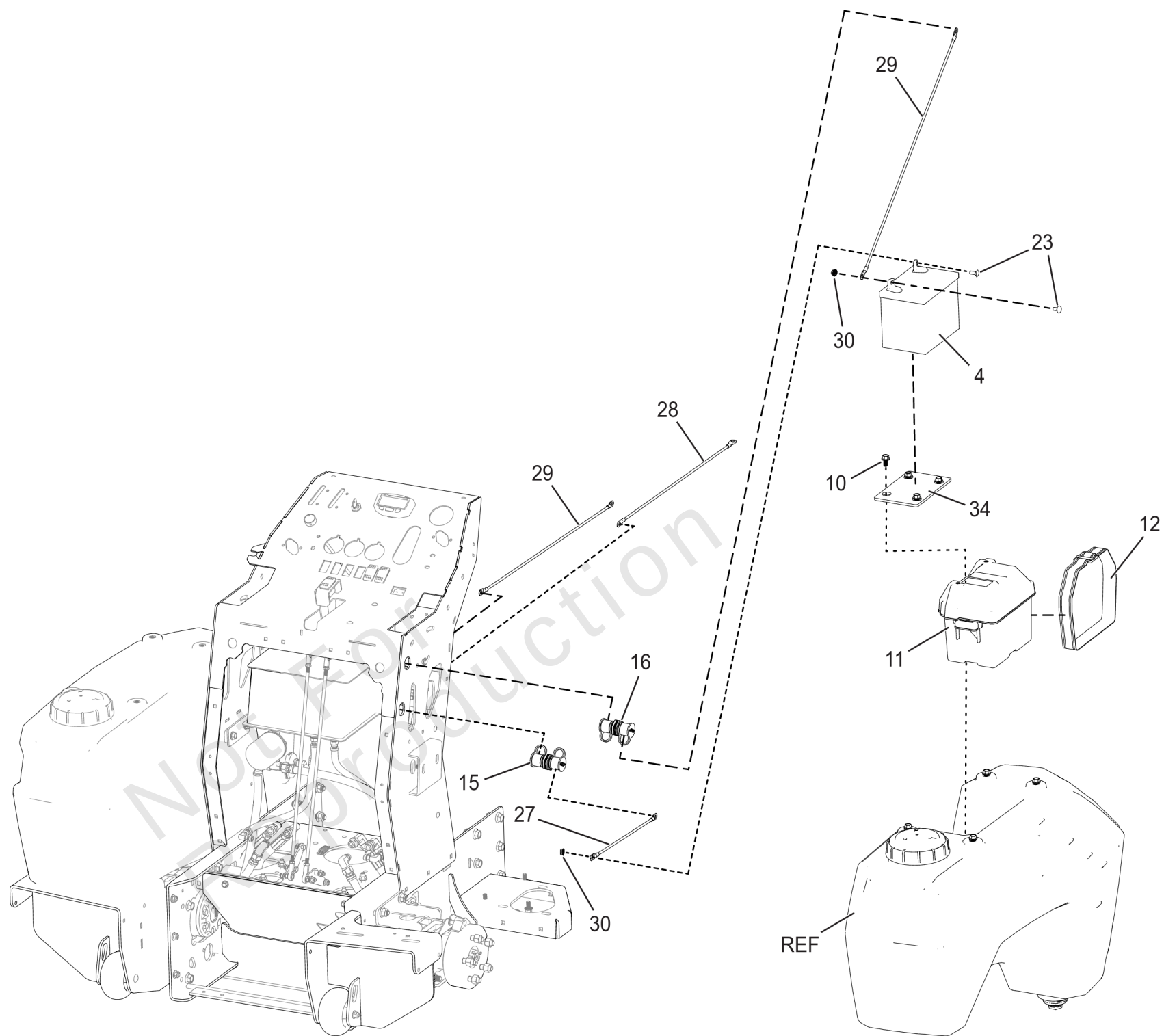
Electrical Group (2)

REF NO	PART NO	QTY	DESCRIPTION
1	5108098	4	SCR-CAP, SBH M4-0.7 X 10MM SS188
6	5107698	1	SENSOR, SPEED, 8MM X 53 IN LG
8	5110317	1	MOUNT, SPEED SENSOR MAGNET
9	5108259	1	MAGNET, WHEEL SPEED SENSOR
17	5108503	1	SCR-CAP, SBH #10-24 X .750" SS188
18	5108133	1	NUT-HEX-NYLK, FLG .#10-24 SS188
24	5108325	8	CABLE TIE, NYLON, PUSH-IN, 8" OAL
31	5107705	1	SCR-CAP, SBWH #10-24 X .375" SS188
32	5107707	1	TAPE, ACRYLIC FOAM RP+080GF
33	5109938	1	WIRING HARNESS, RANGER

Electrical Group (3)

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Electrical Group (3)

REF NO	PART NO	QTY	DESCRIPTION
4	-----	1	BATTERY, 12 VOLT, 230 CCA
10	5107703	4	SCR-CAP, HSWH .375"-16 X .750" SS188
11	5100688	1	BATTERY BOX, W/ DRAIN HOLE
12	5106544	1	STRAP, BATTERY BOX 45"
15	5110181	1	PASS THRU STUD, GEP, RED, PTR-38A-02
16	5110180	1	PASS THRU STUD, GEP BLACK PTB-38A-02
23	5107688	2	BLT-RDHDSQNK, .3125"-18 X .750" SS188
27	5109939	1	BATTERY CABLE - RED 14"
28	5110074	1	BATTERY CABLE - RED 22" 6 GA
29	5109940	2	BATTERY CABLE - BLACK 29"
30	5108570	2	NUT-HEX-FGLK, .3125"-18 SS188
34	5110191	1	STANDOFF, BATTERY TRAY, BIRCH
REF	SEE FOOTNOTE		SEE CONTEXT -SEE SPRAY TANK GROUP

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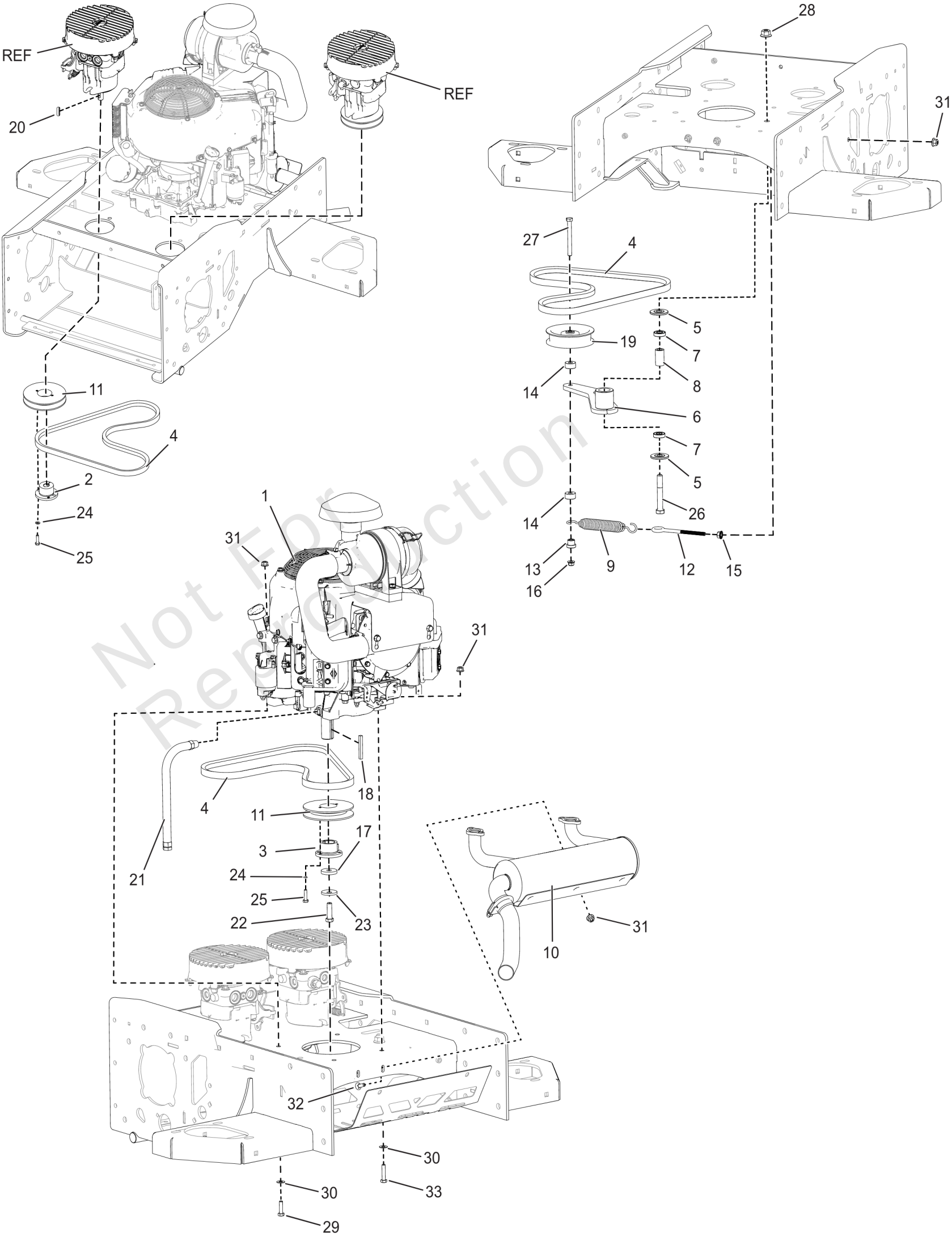
Footnotes:

SEE SPRAY TANK GROUP

Engine Group

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Engine Group

REF NO	PART NO	QTY	DESCRIPTION
1	5109515	1	ENGINE, 21 HP VANGUARD, (3857770011G1)
2	5109880	2	5/8 SPLIT TAPER BUSHING, H SERIES
3	5109881	1	1 1/8 SPLIT TAPER BUSHING, H SERIES
4	5110046	1	BELT, 5L EE 52.75"
5	5103262	2	SPACER, IDLER ARM, 1/2, PM
6	5422094	1	WELD, IDLER ARM SWIVEL SPRING
7	7078243	2	BEARING, BALL, AXLE
8	5103812	1	SPACER, .52 X .84 X 1.53, PM
9	5022847	1	SPRING-EXT, 1.04 ODX6.935LGX.148WR, BLK
10	5109548	1	EXHAUST, RANGER 21HP EXHAUST
11	5109941	3	PULLEY, 4.75 O.D. A/B H TYPE BUSHING
12	5109967	1	BOLT, EYE .3125 X 4.25 STEEL
13	5023257	1	BUSHING, .38 X .88 X .73
14	5046860	2	SPACER, .39 X 1.00 X .50, PM, CZ
15	5108570	1	NUT-HEX-FGLK, .3125"-18 SS188
16	5107638	1	NUT-HEX-NYLK, FLG .375"-16 SS188
17	5025714	1	WSHR, FLT .453 ID X 1.5 OD X .25 THK SPC
18	5025716	1	KEY 1/4" SQ X 2.25"
19	5110464	1	PULLEY IDLER 4.00" OD X 3/8" BORE PLAST
20	5025713	2	KEY, FEATHER .188" X .188" X 1.00"
21	5048681	1	HOSE, OIL DRAIN
22	5025715	1	SCREWCAP 7/16-20 x 1 1/2 GR 8 W/PATCH
23	5106653	1	WSHR-STL, BLV, .450" X 1.500" X .172" MZ
24	5025718	6	WASHER LOCK 1/4" S/T MED
25	5025010X8	6	BOLT, 1/4-20 X 1" GD5 CZ
26	5107686	1	SCR-CAP, HEX .500"-13 X 3.500" SS188
27	5025726	1	SCR-CAP, HEX .375"-16 X 4.00 SS188
28	5107637	1	NUT-HEX-NYLK, FLG .500"-13 SS188
29	5106755	3	SCR-CAP, HEX .3125"-18 X 1.500" SS188
30	5106009	4	WSHR-STL, FLT .343" X .750" X .050" SPC SS188
31	5107653	7	NUT-HEX-NYLK, FLG .3125"-18 SS188
32	5107645	2	BLT-RDHDSQNK, .3125"-18 X 1.000" SS188
33	5106293	1	SCR-CAP, HEX .3125"-18 X 1.750" SS188
REF	SEE FOOTNOTE		SEE CONTEXT -SEE TRANSMISSION GROUP

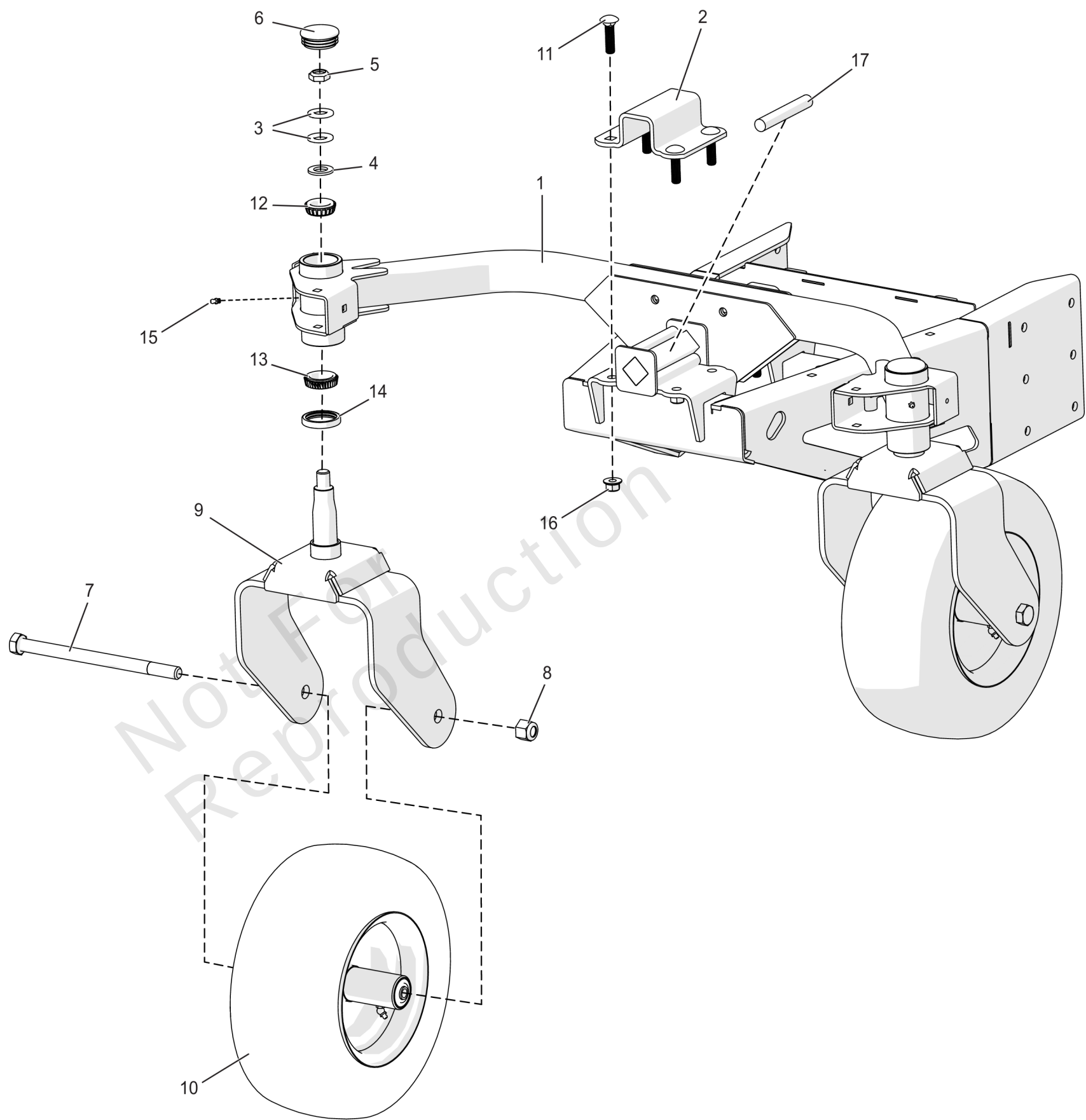
Footnotes:

SEE TRANSMISSION GROUP

Front Axle

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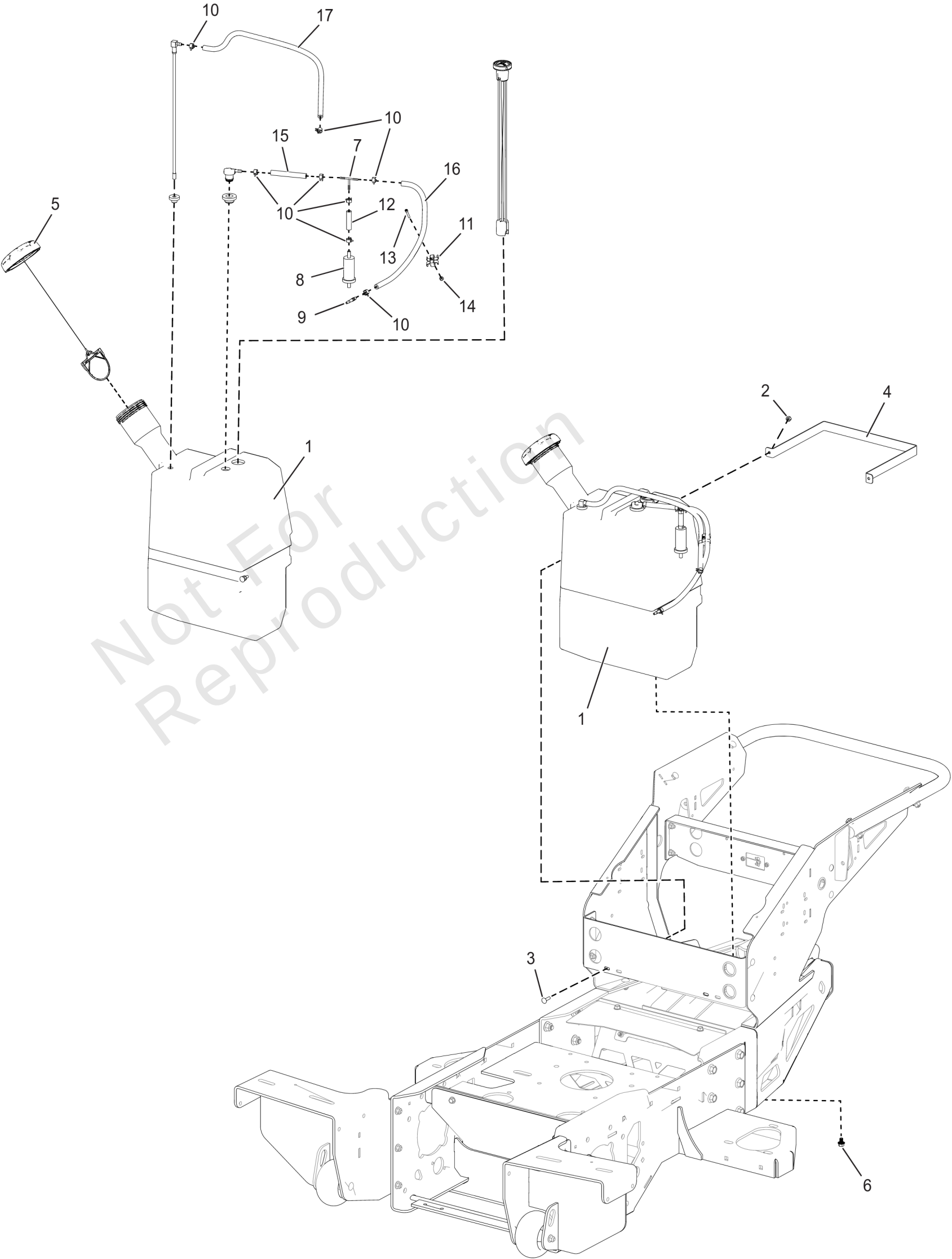
Front Axle

REF NO	PART NO	QTY	DESCRIPTION
1	5421852	1	WELD, AXLE 48 WIDE
2	5421189	2	PLATE, PIVOT HAT
3	5025449	4	WASHER, BELLEVILLE - 1.500 X .755
4	5025160	2	WASHER, 3/4 SAE
5	5025448	2	NUT, 3/4-16, HEX JAM NYLON LOCK
6	5100882	2	CAP, CASTER SPINDLE, LOW PROFILE
7	5109950	2	SCR-CAP, HEX, .750"-10 X 11.00" SS188
8	5107677	2	NUT-HEX-NYLK, .750"-10 SS188
9	5422113	2	WELD, CASTER FORK, 16X8-5 WHEEL
10	5109893	2	WHEEL/TIRE 16X6.5-8 SMOOTH
11	5025700	8	BLT-RDHDSQNK, .500"-13 X 2.000" SS188
12	5100839	2	BEARING, TAPER ROLLER, 1.1417
13	5109949	2	BEARING, TAPERED ROLLER 35MM BORE
14	5109581	2	SEAL, 1.750 SHAFT X 2.254 OD X .359 THK
15	5106119	2	ZERK, GREASE .250"-28 SS
16	5107637	8	NUT-HEX-NYLK, FLG .500"-13 SS188
17	5107356	8	CORD, RUBBER

Fuel Tank

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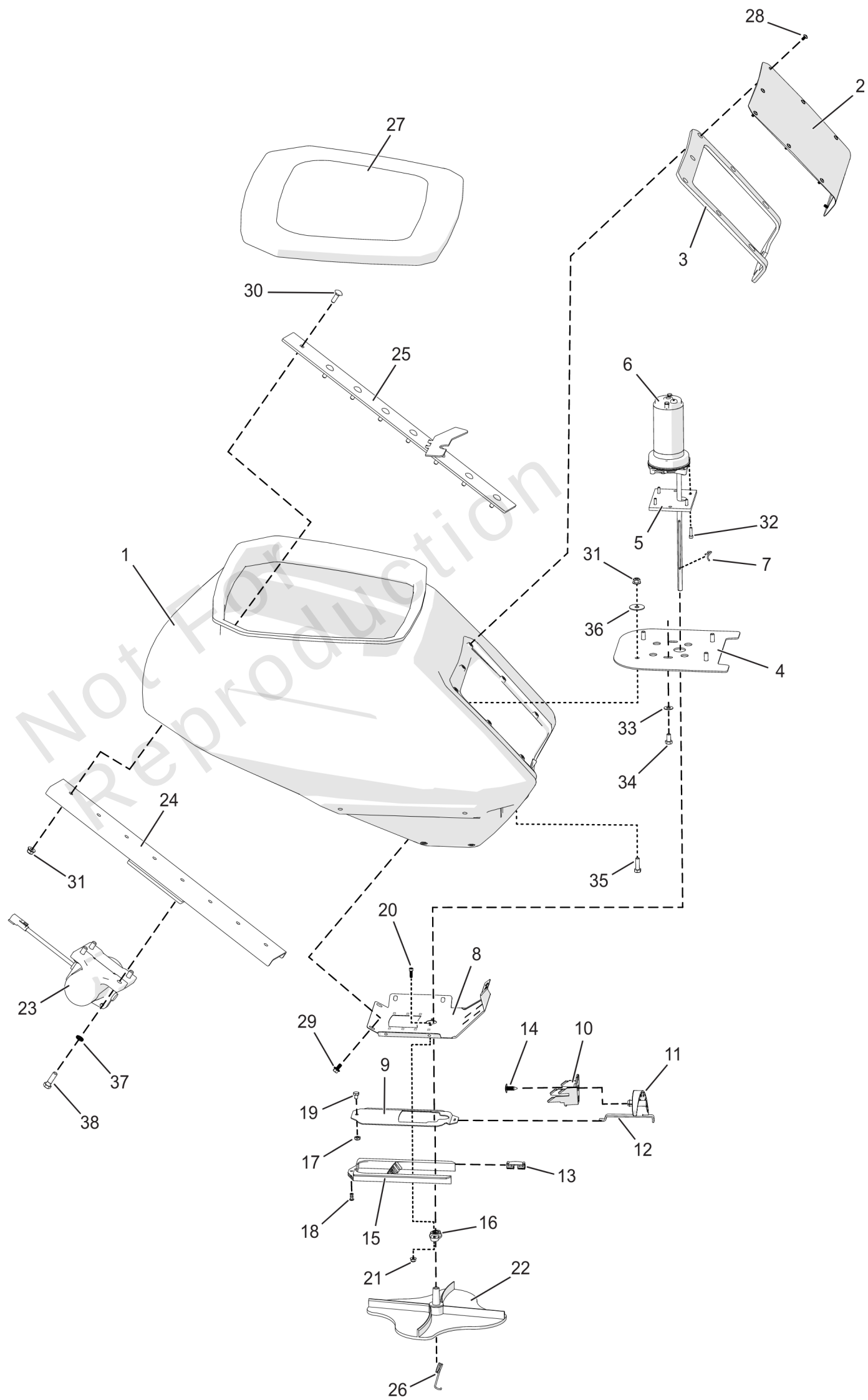
Fuel Tank

REF NO	PART NO	QTY	DESCRIPTION
1	5104926	1	FUEL TANK, SRSZ1, 6 GAL
2	5106040	2	NUT-HEX-NYLK, .250"-20 SS188
3	5107668	2	BLT-RDHDSQNK, .250"-20 X 1.000" SS188
4	5421694	1	BRKT, Z1 TANK STRAP
5	5104686	1	FUEL CAP, 3.25", MANAGED VENT, 16"TETHER
6	5108654	2	SCR-CAP, HSWH .3125"-18 X .500" SS188
7	5103062	1	FITTING, 3/16" TEE, BARB TYPE, HDPE
8	844793	1	FUEL FILTER BRIGGS
9	5108893	1	REDUCER, 1/4" TO 3/16" HOSE BARB
10	791164	8	CLAMP, FUEL LINE 0.50"
11	5108596	1	CLIP-T, .375"-.500" BLACK
12	5419949	1	HOSE, FUEL, 1/4" ID X 1/2" OD, 2" LG
13	5108609	1	SCR-CAP, SH #8-32 X 1.000" SS188
14	5108610	1	NUT-HEX-NYLK, #8-32 SS188
15	5423203	1	HOSE, FUEL 1/4" ID X 1/2" OD, 6.00" LG
16	5419950	1	HOSE, FUEL, 1/4" ID X 1/2" OD, 14" LG
17	5419951	1	HOSE, FUEL, 1/4" ID X 1/2" OD, 22" LG

Hopper

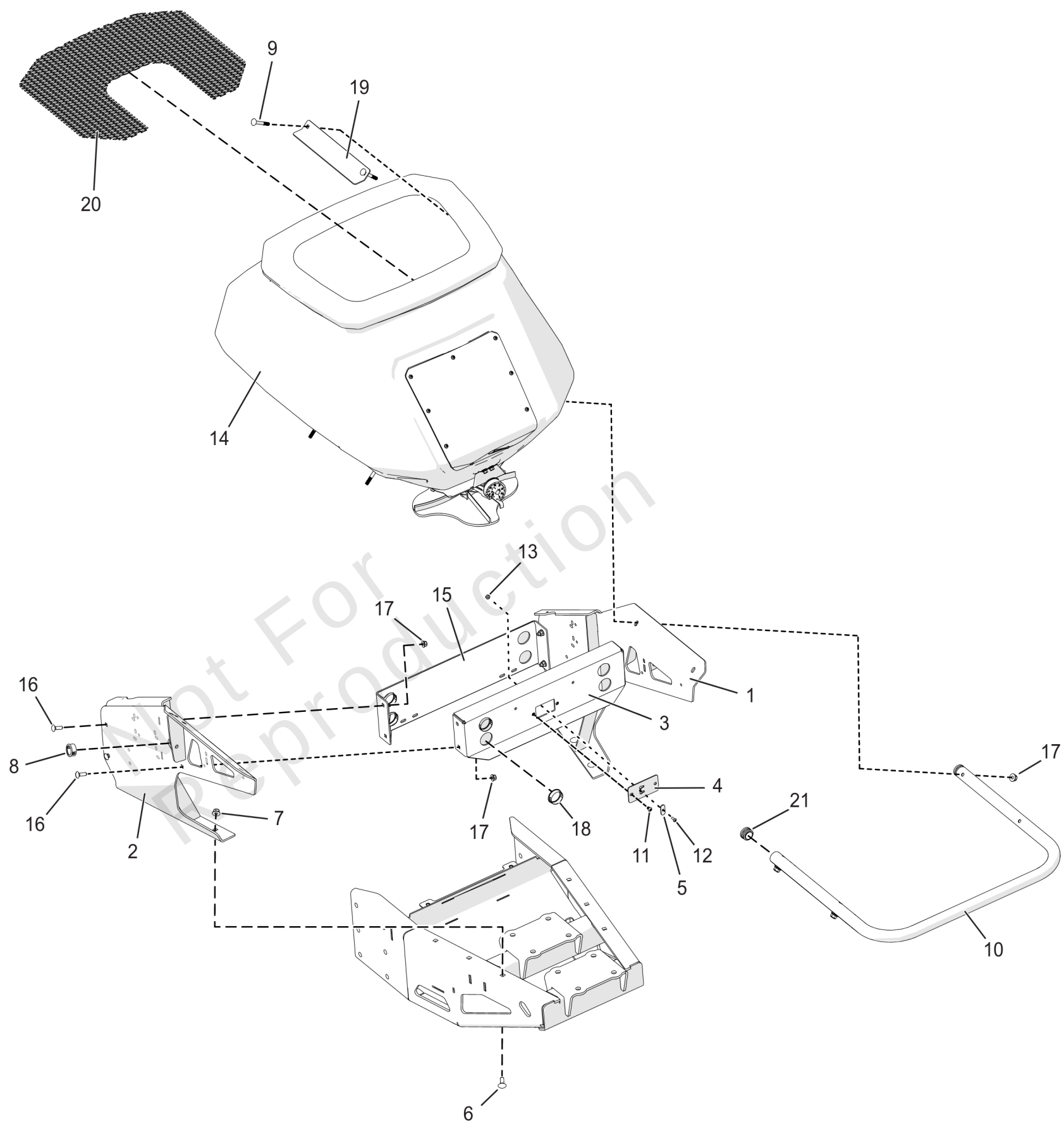
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Hopper

REF NO	PART NO	QTY	DESCRIPTION
1	5109660	1	HOPPER, GRANULAR LESCO 250 LBS.
2	5423134	1	SHROUD, MOTOR HOPPER LESCO
3	5108251	1	GASKET, MOTOR HOPPER
4	5418978	1	PLATE, SCREEN SUPPORT CENTER
5	5418220	1	BRACKET, GEARMOTOR, SUPPORT
6	5107701	1	GEARMOTOR, SPINNER PLATTER
7	5105875	1	CLIP, SPINNER AGITATOR
8	5419442	1	BRACKET, HOPPER BOTTOM
9	5419448	1	PLATE, RATE GATE OFFSET
10	5105888	1	MOUNT, SPREADER DIAL
11	5105913	1	DIAL, CONTROLLER
12	5105942	1	PLATE, STOPPER, GATE OPENING
13	5105933	4	GUIDE, RATE GATE & DIFFUSER
14	5105953	1	PINE TREE CLIP, SPREADER FOR DIA .33"
15	5106014	1	BAFFLE, SPREADER DIFFUSER
16	5107702	1	BEARING, FLANGE IGUS EFOI-6
17	5105915	1	NUT-HEX-NYLK, .250"-20 TH SS188
18	5105921	1	FITTING, SWIVEL ACCUWAY
19	5105894	1	SCR-CAP, HEX .250"-20 X .375" SS188 SPC
20	5108132	2	SCR-CAP, SH #10-24 X .625" SS188
21	5108133	2	NUT-HEX-NYLK, FLG .#10-24 SS188
22	5105880	1	PLATTER, Spinner
23	5108690	1	VIBRATOR, Z80 12VDC
24	5419872	1	WELD, VIBRATOR MOUNT
25	5419892	1	WELD, SCREEN SUPPORT
26	5105879	1	CLIP, SPREADER SPINNER
27	5108508	1	COVER, HOPPER FS5250 VOYAGER
28	5107705	9	SCR-CAP, SBWH #10-24 X .375" SS188
29	5108087	8	SCR-CAP, HSWH .250"-20 X .500" SS188
30	5107645	8	BLT-RDHDSQNK, .3125"-18 X 1.000" SS188
31	5107653	12	NUT-HEX-NYLK, FLG .3125"-18 SS188
32	5106676	4	SCR-CAP SH, #10-32 X .750" SS188
33	5106009	2	WSHR-STL, FLT .343" X .750" X .050" SPC SS188
34	5106649	2	SCR-CAP, HEX .3125"-18 X .625" SS188
35	5106576	4	SCR-CAP, HEX .3125"-18 X 1.000" SS188
36	5107652	4	WSHR-SS, FLT .348"X1.250"X.065" FEN
37	5108674	4	WSHR-NORD LOCK 0.406" X 0.654" ZP
38	5107635	4	SCR-CAP, HEX .375"-16 X 1.250" F593C



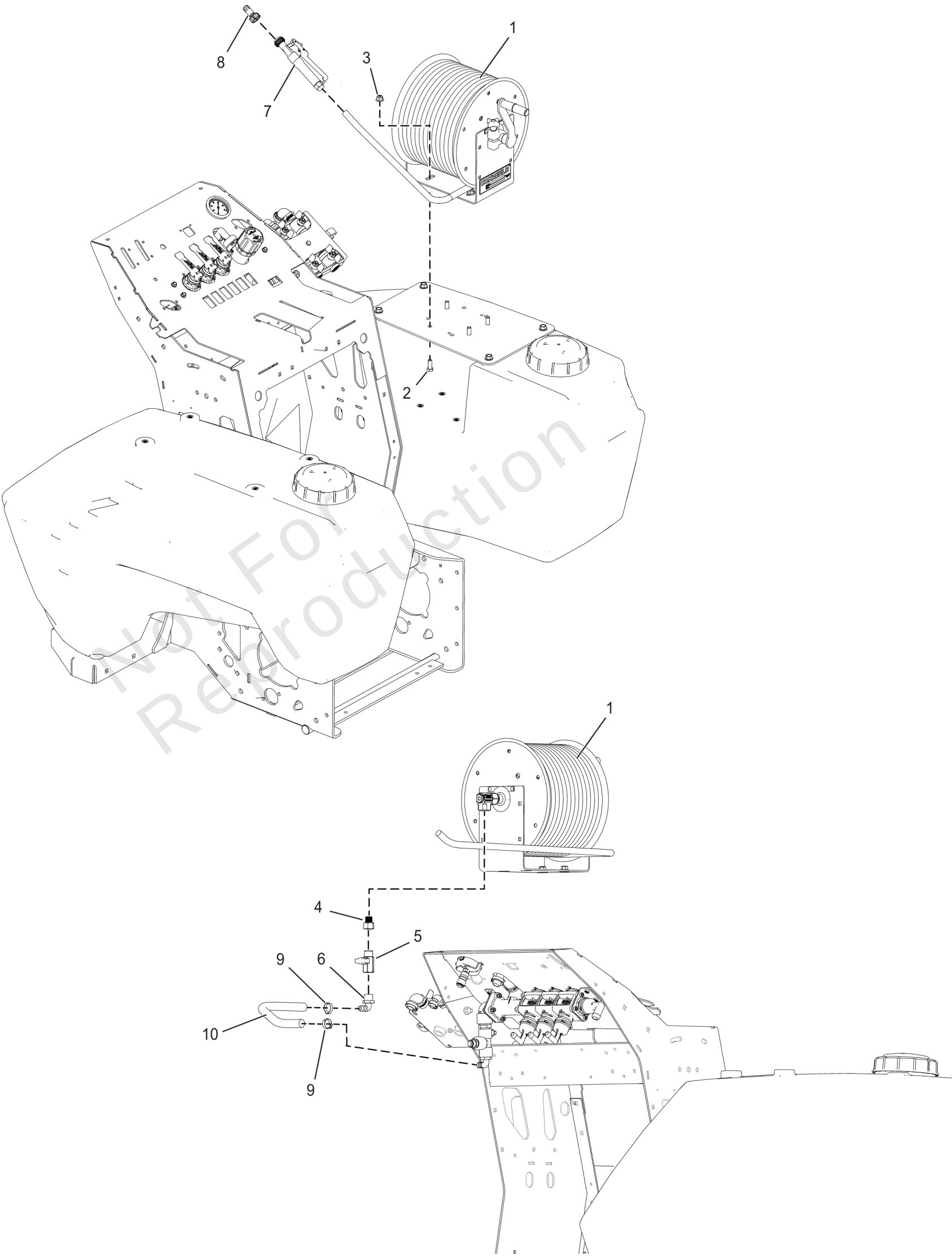
Hopper Group

REF NO	PART NO	QTY	DESCRIPTION
1	5421421	1	WELD, HOPPER MOUNT LH
2	5421422	1	WELD, HOPPER MOUNT RH
3	5423129	1	WELD, HOPPER DIVIDER BRACKET
4	5419900	1	PLATE, HOPPER CABLES
5	5105969	1	PLATE, CABLE HOLDER
6	5107639	6	BLT-RDHDSQNK, .375"-16 X 1.000" SS188
7	5107638	6	NUT-HEX-NYLK, FLG .375"-16 SS188
8	5108598	1	BUSHING, SNAP 1" ID
9	5109263	4	BLT-RDHDSQNK, .3125"-18 X 2.250" SS188
10	5420342	1	TUBE, MOUNT LIGHT BAR - PAINTED
11	5108320	2	SCR-CAP, SBH .250"-20 X .375" SS188
12	5105978	1	SCR-CAP, BSH #10-24 X .500" SS188
13	5105963	1	NUT-HEX-NYLK, #10-24 SS188
14	5306896	1	GROUP, HOPPER LESCO RANGER
15	5422045	1	BRKT, FUEL TANK BACK BRACE
16	5107645	8	BLT-RDHDSQNK, .3125"-18 X 1.000" SS188
17	5107653	12	NUT-HEX-NYLK, FLG .3125"-18 SS188
18	5110379	4	BUSHING, SNAP 1.31" ID
19	5418973	2	BRACKET, SCREEN SUPPORT HOPPER
20	84011456	1	SCREEN, Hopper (MODEL 250 LBS PERF)
21	5108817	2	PLUG TUBE INSERT 1.25" O.D.

Hose Reel

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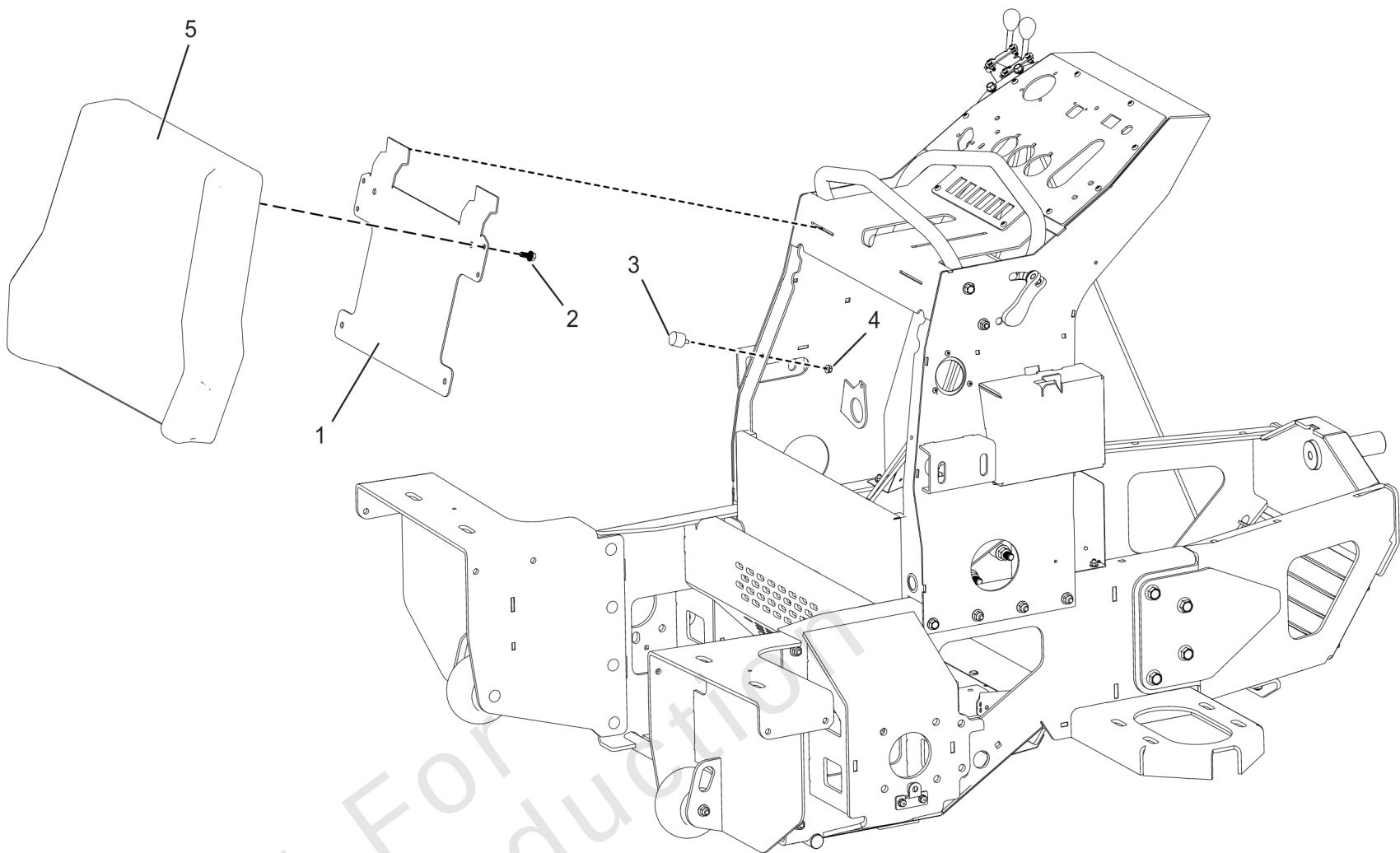
Hose Reel

REF NO	PART NO	QTY	DESCRIPTION
1	5111045	1	REEL, SPRAY HOSE 75 FT., VITON
2	5025649	4	SCR-CAP, HEX .375"-16 X 1.000" SS188
3	5107638	4	NUT-HEX-NYLK, FLG .375"-16 SS188
4	5108630	1	FTG, STR 3/8" MNPT - 1/2" FNPT BRASS
5	5106003	1	VALVE, BALL, 1/2 MPT - 1/2 FPT
6	5106665	1	FITTING, 1/2 MPT - 1/2 BARB, 90 ELBOW
7	5105944	1	SPRAY GUN, 1/4 FPT
8	5106679	1	NOZZLE TIP, ADJUSTABLE SPRAY, STANDARD
9	84008744	2	CLAMP
10	5422297	1	HOSE, CHEM .5" I.D. X 18.5"

Knee Pad

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Knee Pad

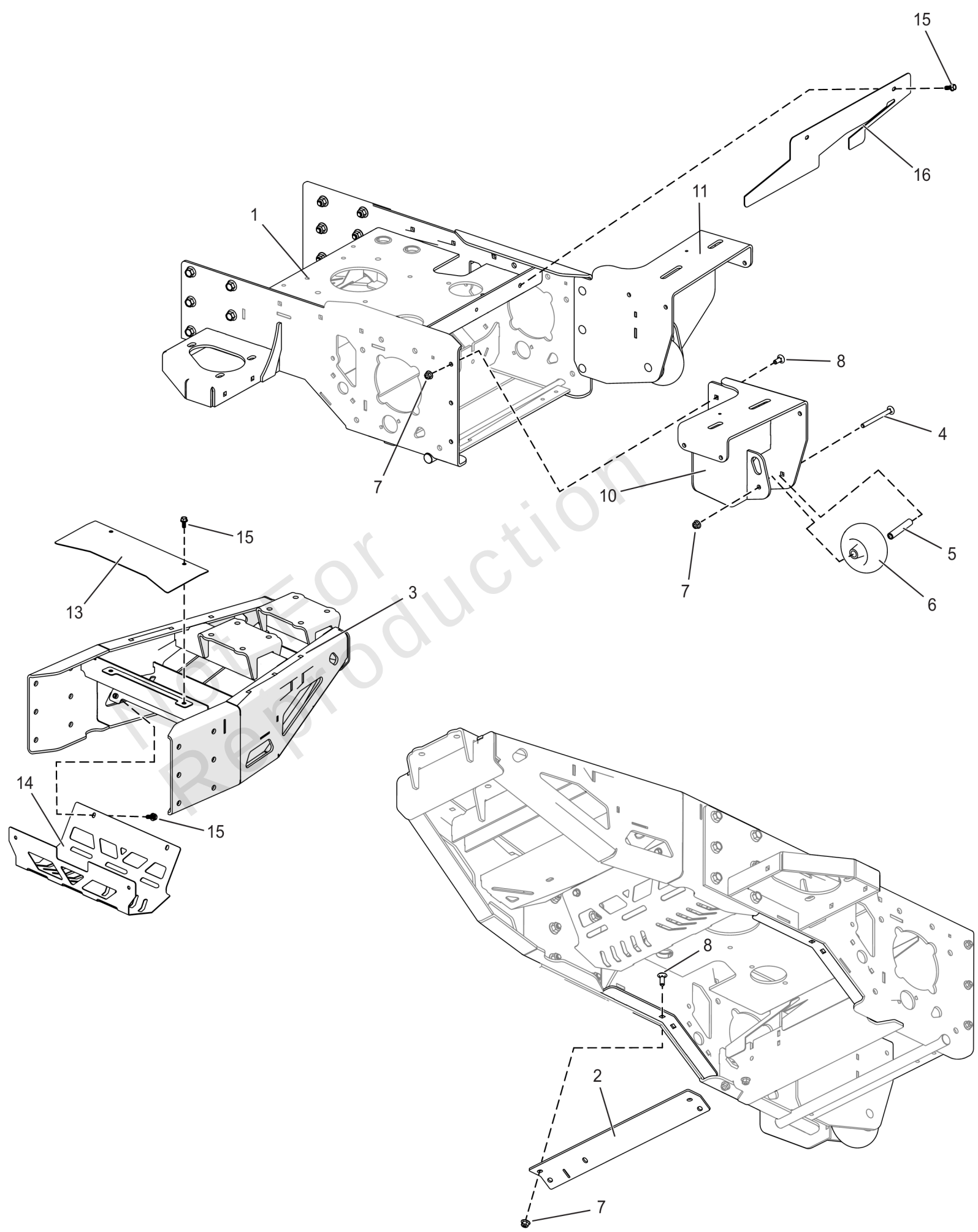
REF NO	PART NO	QTY	DESCRIPTION
1	5418917	1	BRKT, THIGH PAD REMOVEABLE
2	5108284	4	SCR-CAP, HSWH .313"-18 X .750" SS188
3	5022673	2	BUMPER, RUBBER, 1/4-20
4	5107655	2	NUT-HEX-NYLK, FLG .250"-20 SS188
5	5109588	1	PAD, THIGH LV200240V

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Main Frame Group (1)

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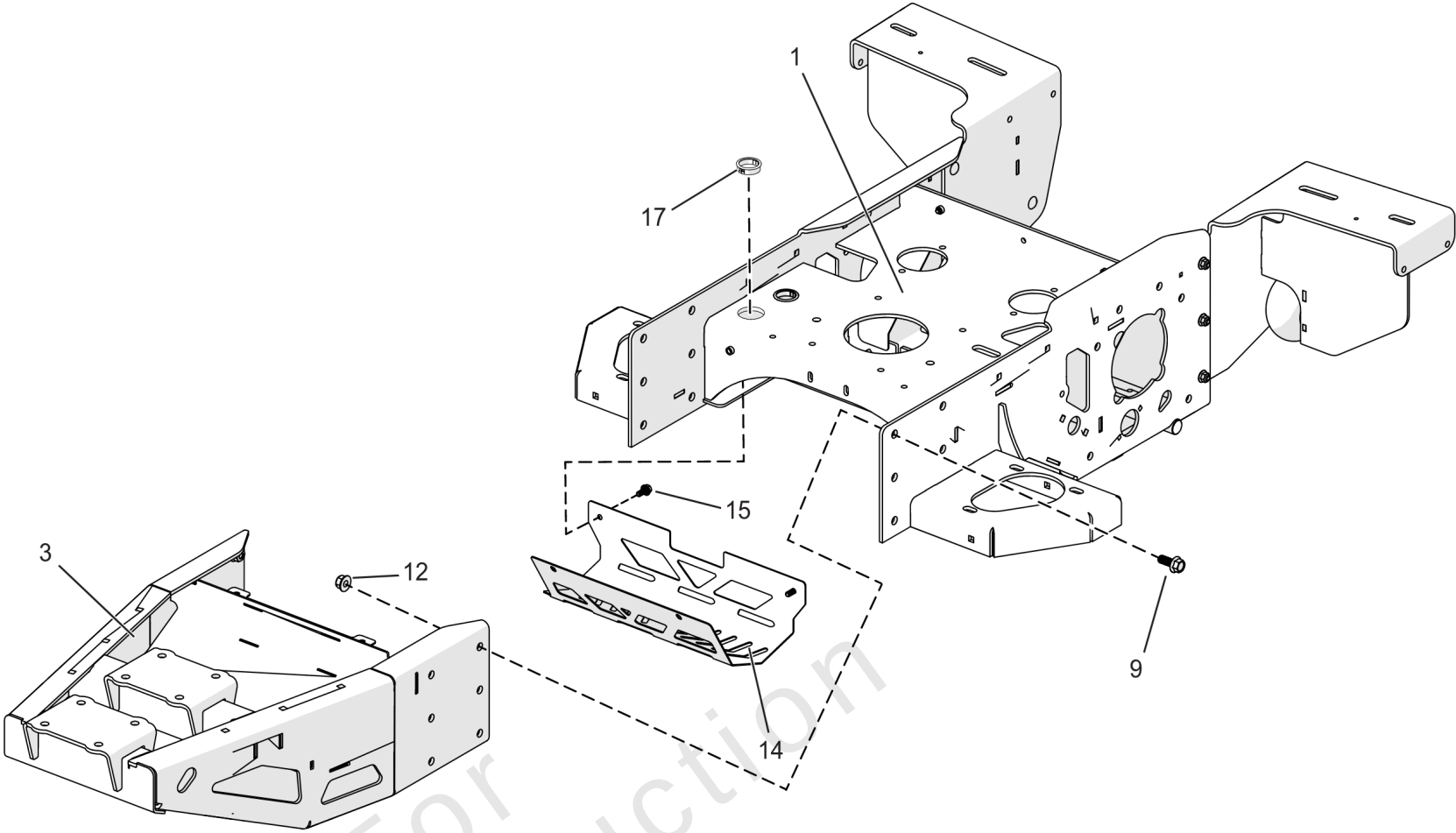
Main Frame Group (1)

REF NO	PART NO	QTY	DESCRIPTION
1	5422971	1	WELD, RANGER 46 REAR FRAME WELDMENT
2	5421250	1	BRKT, LOWER FRAME SUPPORT
3	5421266	1	WELD, FRAME FRONT
4	5107681	2	BLT-RDHDSQNK, .375"-16 X 4.500" SS188
5	5107650	2	SPCR-SS, 303 .375" X .625" X 3.375"
6	5105521	2	WHEEL, ANTI SCALP, 5"
7	5107638	12	NUT-HEX-NYLK, FLG .375"-16 SS188
8	5107639	10	BLT-RDHDSQNK, .375"-16 X 1.000" SS188
10	5421563	1	WELD, LH BUMPER
11	5421564	1	WELD, RH BUMPER
13	5422137	1	BRKT, UPPER EXHAUST HEAT SHIELD
14	5422138	1	BRKT, LOWER EXHAUST HEAT SHIELD
15	5108284	8	SCR-CAP, HSWH .313"-18 X .750" SS188
16	5421272	1	PLATE, HEAT DEFLECTOR

Main Frame Group (2)

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Main Frame Group (2)

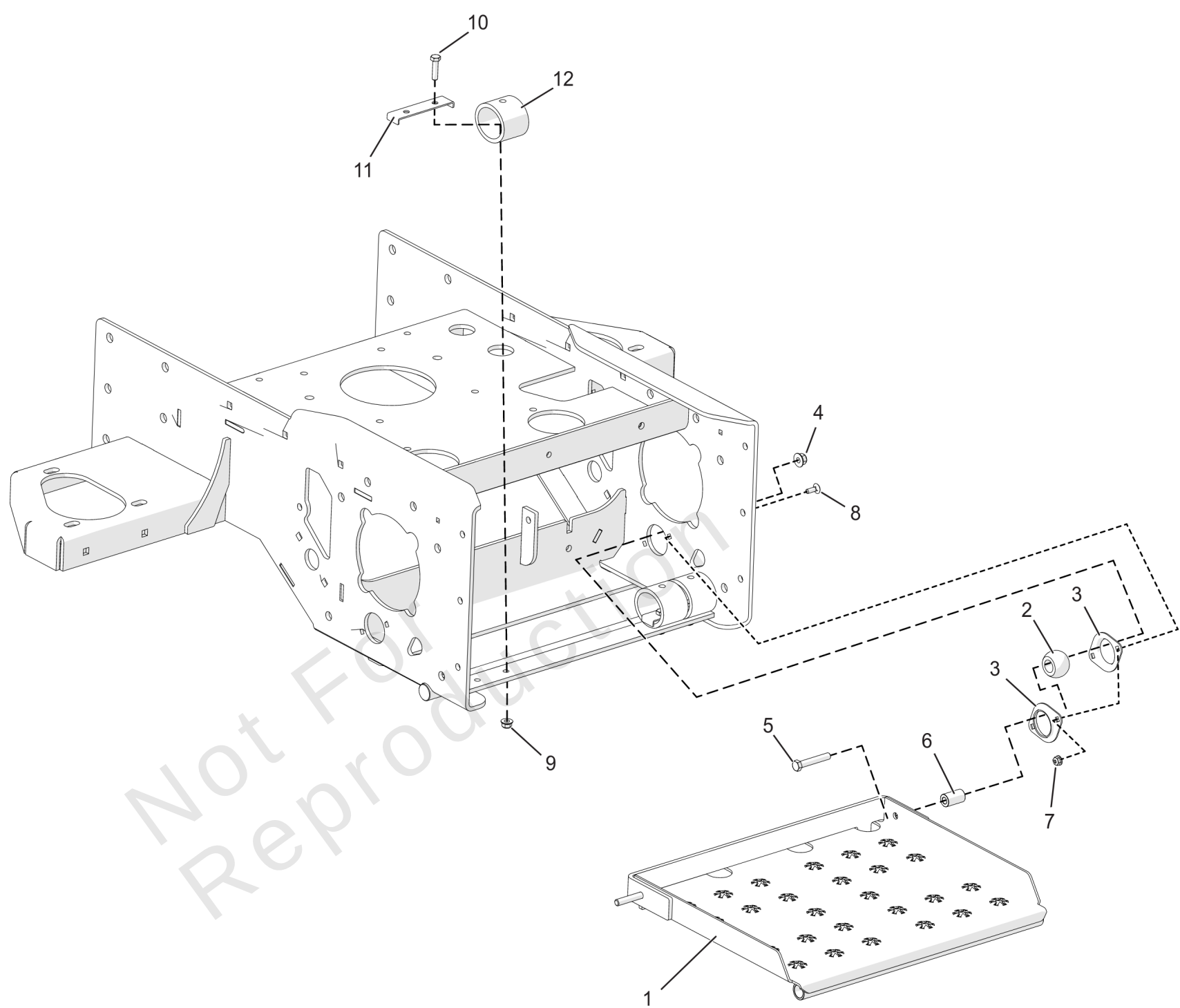
REF NO	PART NO	QTY	DESCRIPTION
1	5422971	1	WELD, RANGER 46 REAR FRAME WELDMENT
3	5421266	1	WELD, FRAME FRONT
9	5110055	12	SCR-CAP, HWHW .500"-13 X 1.250"
12	5107638	12	NUT-HEX-NYLK, FLG .375"-16 SS188
14	5422138	1	BRKT, LOWER EXHAUST HEAT SHIELD
15	5108284	8	SCR-CAP, HSWH .313"-18 X .750" SS188
17	5110379	2	BUSHING, SNAP 1.31" ID

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Operator Platform

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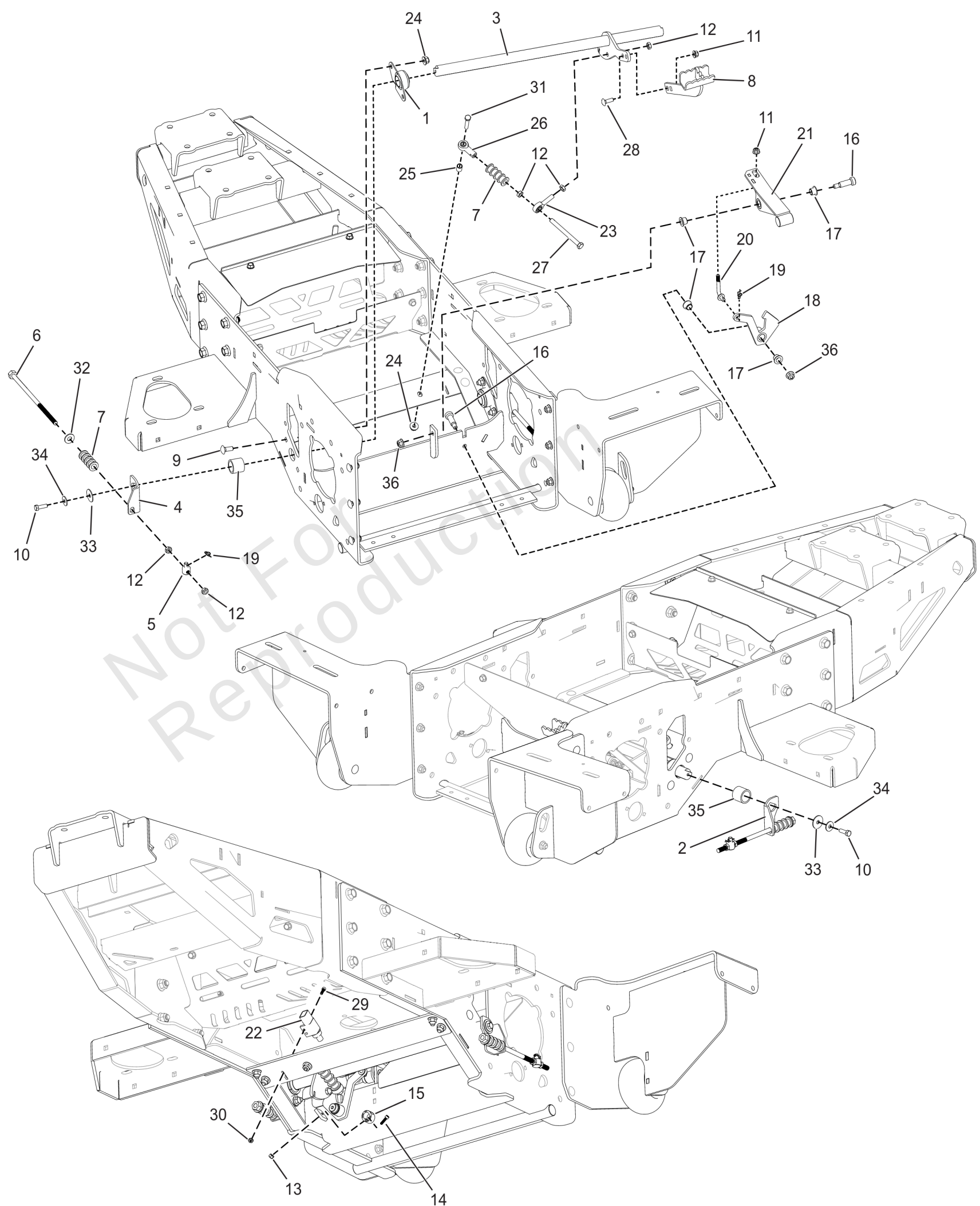
Operator Platform

REF NO	PART NO	QTY	DESCRIPTION
1	5421268	1	WELD, OPERATOR PLATFORM
2	5108180	2	U40MMSPH-3/4 UHMW BEARING
3	5107663	4	40M-2-SS TWO-BOLT FLANGE
4	5107638	2	NUT-HEX-NYLK, FLG .375"-16 SS188
5	5106581	2	SCR-CAP, HEX .375"-16 X 2.250" SS188
6	5107665	2	SPCR-SS, 304 .375" X .750" X 1.250"
7	5107655	4	NUT-HEX-NYLK, FLG .250"-20 SS188
8	5108774	4	BLT-RDHDSQNK .250"-20 X .750" SS188
9	5107653	4	NUT-HEX-NYLK, FLG .3125"-18 SS188
10	5106233	4	SCR-CAP, HEX .3125"-18 X 1.250" SS188
11	5419450	2	BRACKET, GBR BUMPERS
12	5105128	4	BUMPER, GBR-6, 200 IN-LBS

Parking Brake

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: LZ250500V



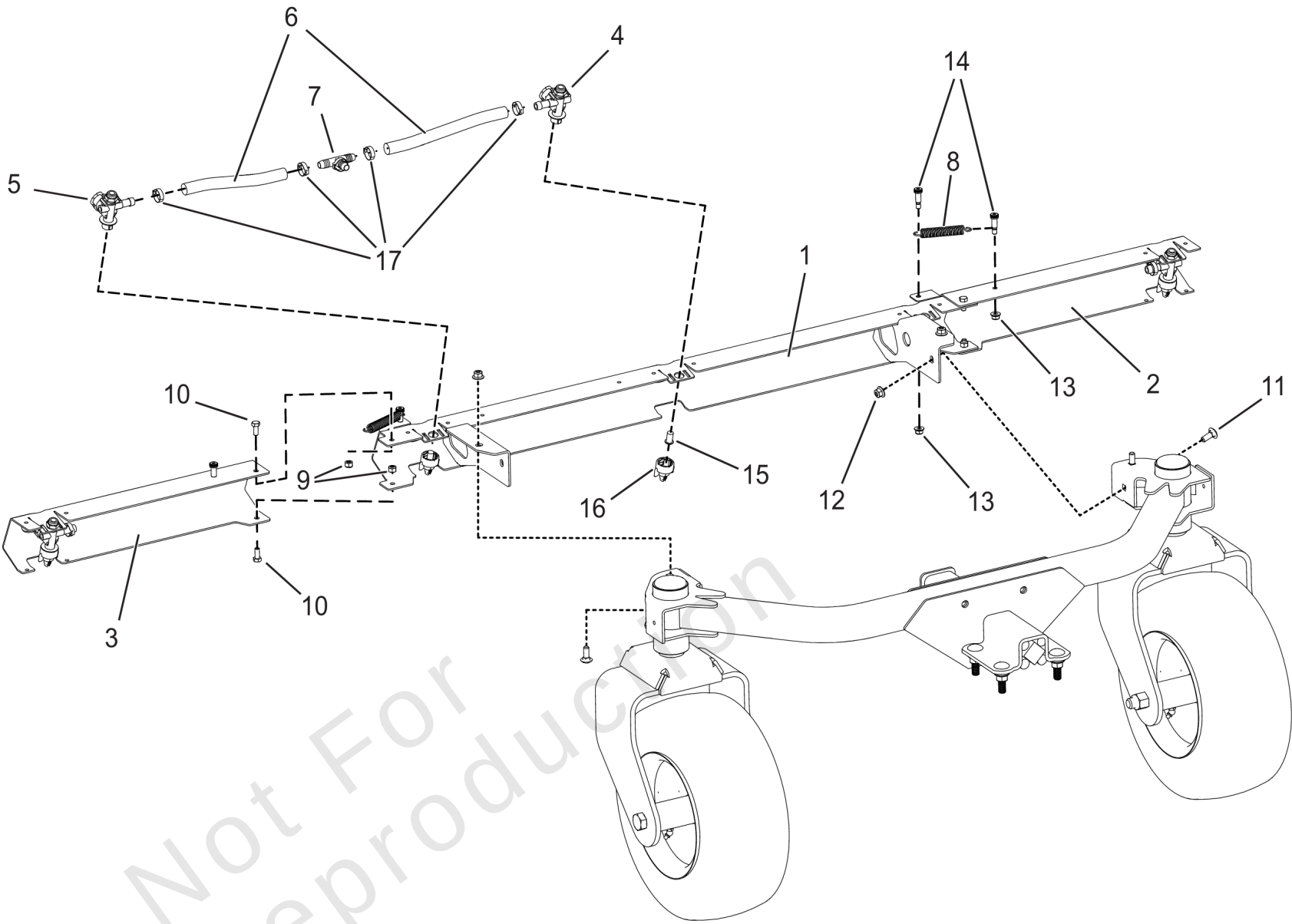
Parking Brake

REF NO	PART NO	QTY	DESCRIPTION
1	5107633	2	BRG, BRZ 1.00"ID X 3.125" CTR SIDE FLG
2	5422031	1	BRKT, RH PARK BRAKE ACTUATOR
3	5421552	1	WELD, PARKING BRAKE SHAFT
4	5422030	1	BRKT, LH PARK BRAKE ACTUATOR
5	5107614	2	SWIVEL, Ø.3125-24, Ø.370 POST SS
6	5107615	2	ROD, .375"-24 X 3.50" - 9.53" OAL SS
7	5108206	3	SPRG, ELA .500" X 2.26", 33#/IN
8	5422041	1	WELD, FOOT PEDAL
9	5107639	4	BLT-RDHDSQNK, .375"-16 X 1.000" SS188
10	5106576	2	SCR-CAP, HEX .3125"-18 X 1.000" SS188
11	5107653	3	NUT-HEX-NYLK, FLG .3125"-18 SS188
12	5107648	7	NUT-HEX, JAM .375"-24 SS188
13	5105963	1	NUT-HEX-NYLK, #10-24 SS188
14	5107644	1	SCR-CAP, SH #10-24 X .750" SS188
15	5107634	1	SPRG, BMP .97" X 1.12" 50#PDF
16	5107641	2	BLT-SLDR,SH.50"X1.25",.375"-16X.63"SS188
17	5108816	4	BSHG-FL, .500" X .625" X .500", .875"x .062" IR
18	5422043	1	WELD, FOOT PEDAL CATCH
19	5107667	3	RING, RUE .3125" SS
20	5108204	1	LINK, BRAKE RELEASE
21	5422689	1	WELD, BRAKE RELEASE RANGER
22	5108256	1	SWITCH, PLUNGER, SEALED MOLEX (NO)
23	5021124	1	BALL JOINT, 3/8-24 Male
24	5107638	5	NUT-HEX-NYLK, FLG .375"-16 SS188
25	5108345	1	SPCR-SS, 303 .391" X .500" X .750"
26	5021683	1	BALL JOINT, 3/8-24 FEMALE
27	5108845	1	SCR-CAP, .375"-24 X 4.00" G8 W/ PATCH
28	5107645	2	BLT-RDHDSQNK, .3125"-18 X 1.000" SS188
29	5108132	2	SCR-CAP, SH #10-24 X .625" SS188
30	5108212	2	NUT-HEX, KEPS #10-24 SS188
31	5106581	1	SCR-CAP, HEX .375"-16 X 2.250" SS188
32	5107661	2	WSHR-SS, FLT .438"X 1.000"X.083" USS
33	5107652	2	WSHR-SS, FLT .348"X1.250"X.065" FEN
34	5107642	2	WSHR-SS, BLV .322"X.938"X.072" 17-7PH
35	5423133	2	SPCR-PVC, 1.049" X 1.315" X 0.625"
36	5107643	2	NUT-HEX-FGLK, .375"-16 SS188

Spray Bar Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: LZ250500V



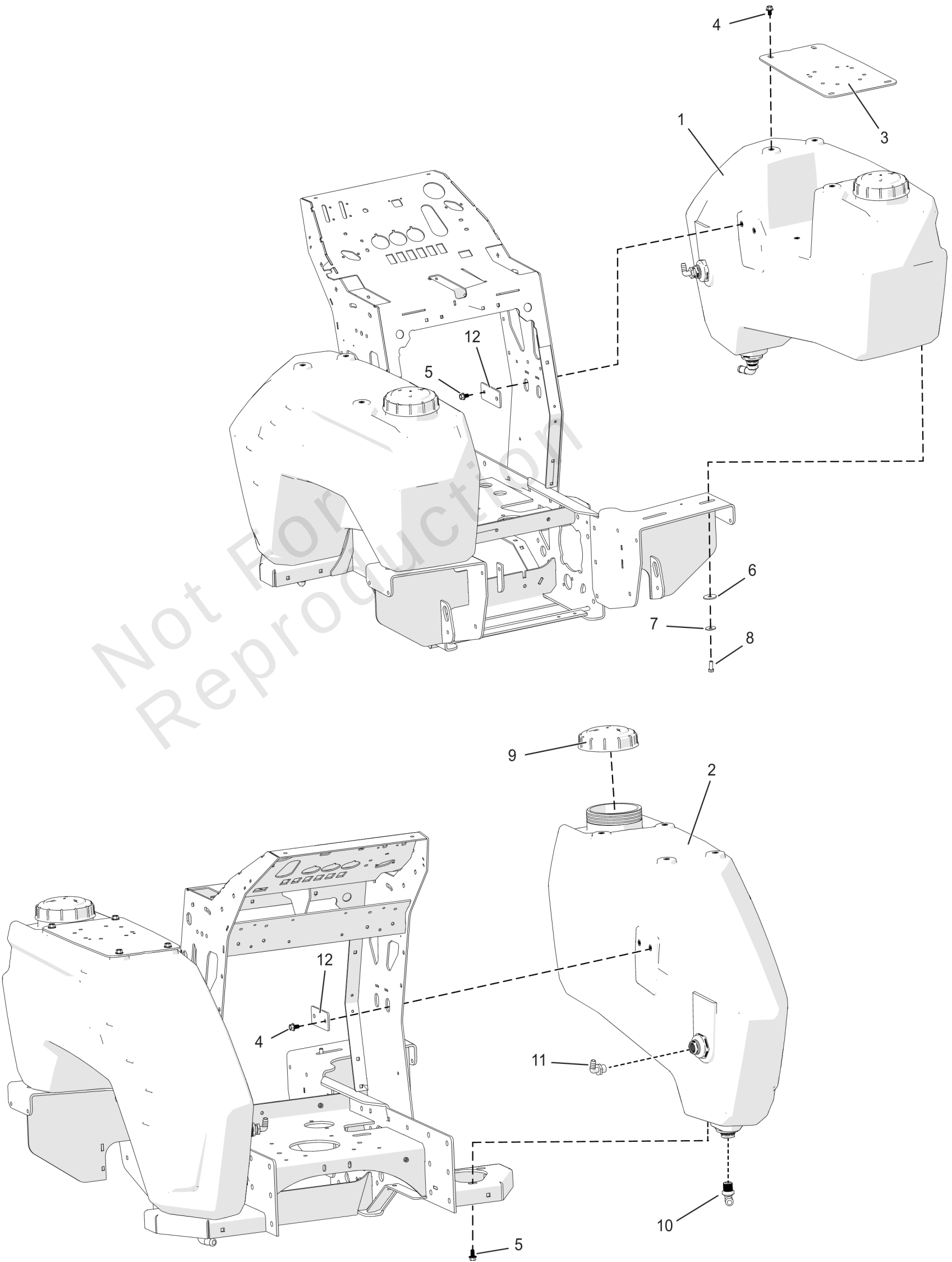
Spray Bar Group

REF NO	PART NO	QTY	DESCRIPTION
1	5422671	1	WELD, CENTER V SPRAY SECTION 46
2	5422668	1	BAR, RIGHT V SPRAY SECTION 46
3	5422667	1	BAR, LEFT V SPRAY SECTION 46
4	5106035	2	DIAPHRAGM CHECK VALVE, LEFT
5	5106025	2	DIAPHRAGM CHECK VALVE, RIGHT
6	84008662	2	HOSE, Chemical
7	5106713	1	FITTING, TEE, 1/2" MPT
8	5105972	2	SPRING, EXTENSION .64" OD X 4.00" LG SS
9	5105992	4	NUT-HEX-NYLK, 0.3125"-18 SS188
10	5106024	4	SCR-CAP, HEX .3125"-18 X .750" SS188
11	5107639	4	BLT-RDHDSQNK, .375"-16 X 1.000" SS188
12	5107638	4	NUT-HEX-NYLK, FLG .375"-16 SS188
13	5107653	4	NUT-HEX-NYLK, FLG .3125"-18 SS188
14	5106712	4	BLT-SLDR, SH .375" X 0.750", .3125"-18 X.500" G8ZY
15	5105904	4	STRAINER, 50 MESH, POLYPROPYLENE TIP
16	84008663	4	TIP, Spray
17	84008744	7	CLAMP

Spray Tank

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: LZ250500V



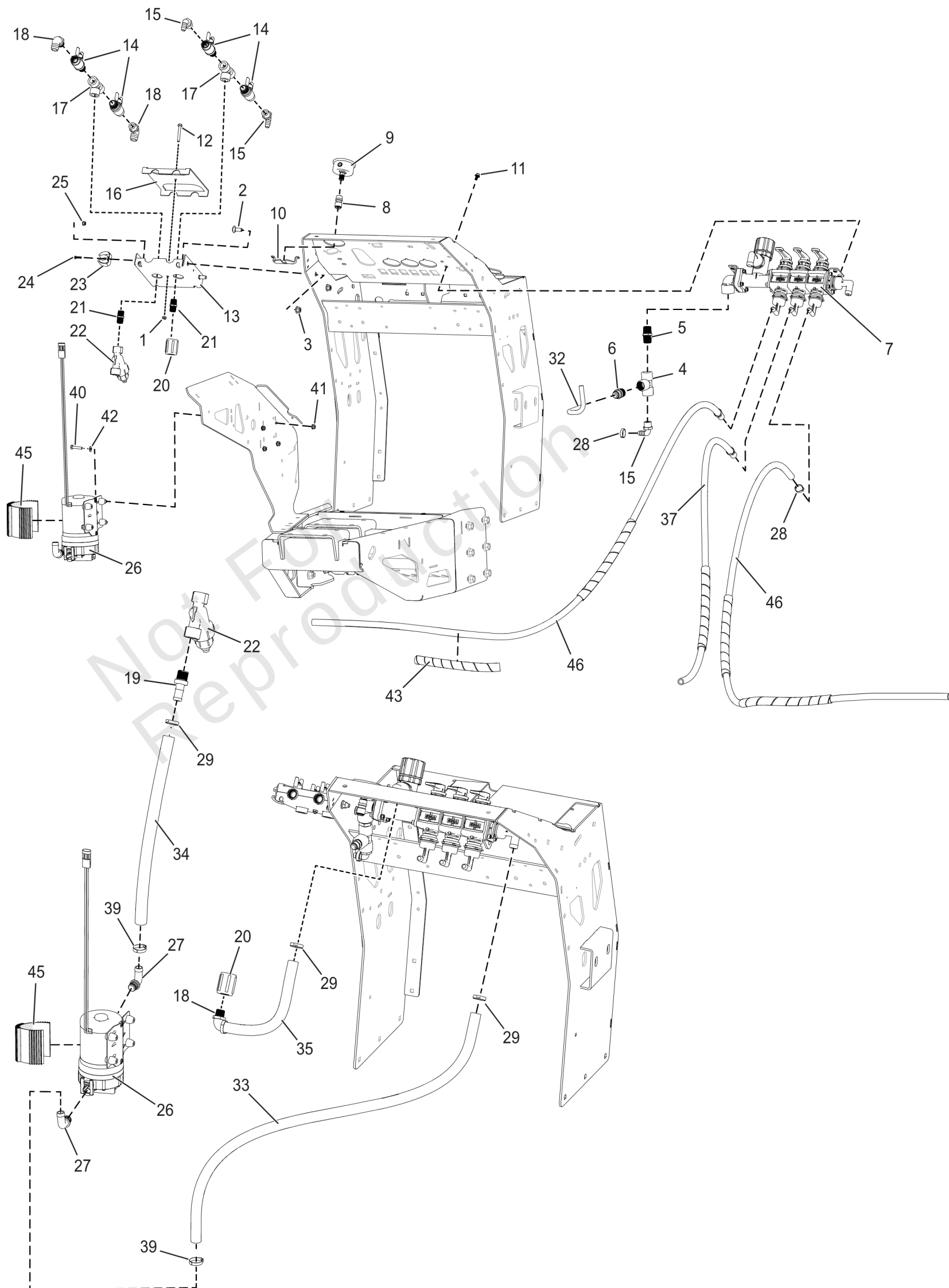
Spray Tank

REF NO	PART NO	QTY	DESCRIPTION
1	5110053	1	TANK, 25 GALLON RIGHT
2	5110054	1	TANK, 25 GALLON LEFT
3	5421179	1	PLATE, ACCESSORY MOUNT, 46
4	5025704	4	SCR-CAP, HSWH 0.375"-16 X 0.625" SS188
5	5107703	10	SCR-CAP, HSWH .375"-16 X .750" SS188
6	5108608	4	WSHR-SS, FLT .405"X1.500"X.120" SS188
7	5107704	4	WSHR-SS, BLV .386"X1.063"X.083" 17-7PH
8	5025649	4	SCR-CAP, HEX .375"-16 X 1.000" SS188
9	5105985	2	LID, TANK, SPRAY (G0134)
10	5108459	2	FTG, ELBW 90° 3/4" MNPT - 3/4" HB BPP
11	5106667	2	FITTING, 3/4 MPT - 1/2 BARB, 90 ELBOW
12	5422428	2	PLATE, UPPER TANK MOUNT 25 GALLON

Spray Valving Group (1)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: LZ250500V



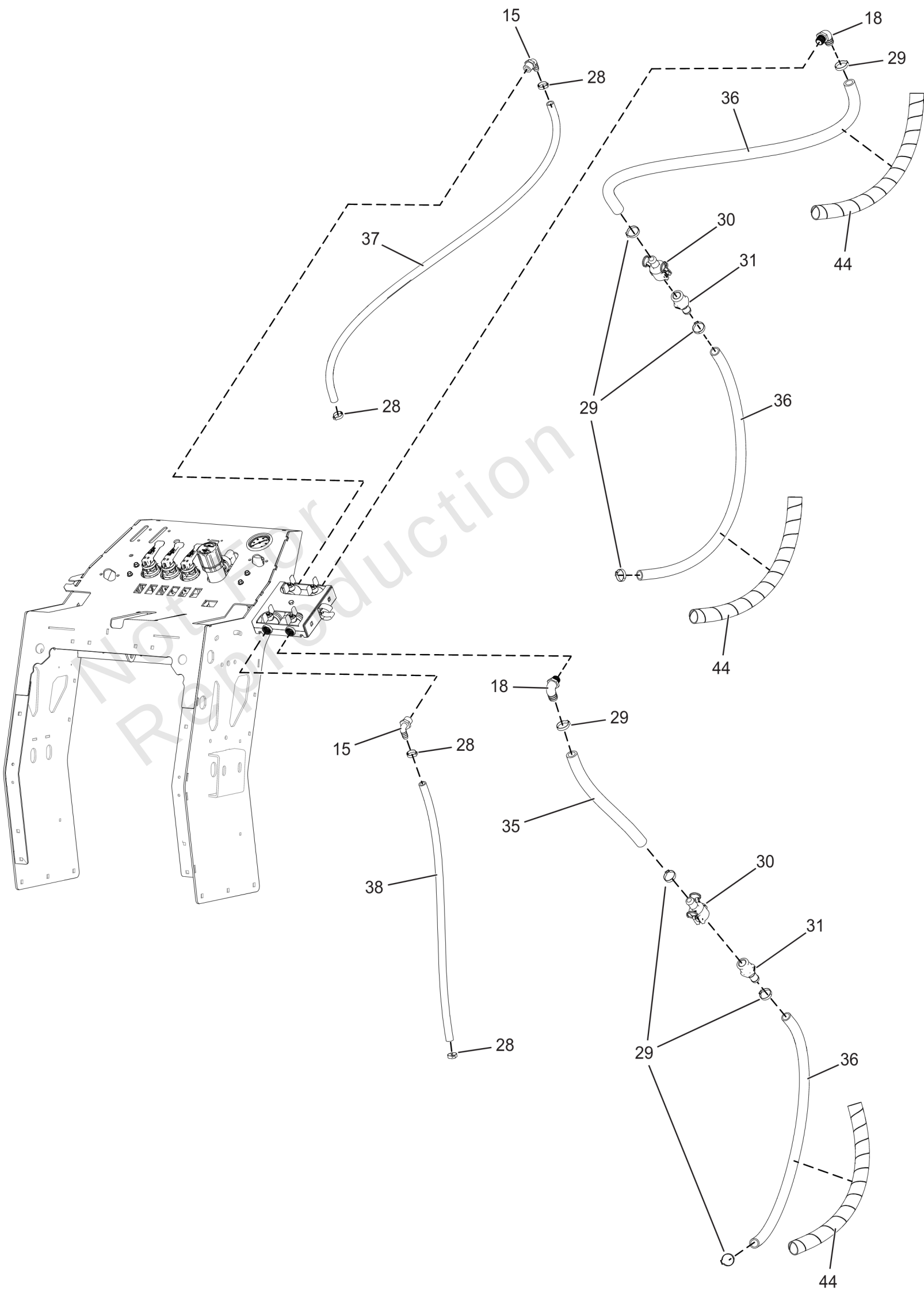
Spray Valving Group (1)

REF NO	PART NO	QTY	DESCRIPTION
1	5105915	1	NUT-HEX-NYLK, .250"-20 TH SS188
2	5107639	2	BLT-RDHDSQNK, .375"-16 X 1.000" SS188
3	5107638	2	NUT-HEX-NYLK, FLG .375"-16 SS188
4	5109309	1	FTG, T 1/2" FNPT BPP
5	5109308	1	FTG, CPLR 3/4" MNPT-1/2"MNPT X 1.75" BPP
6	5108601	1	FTG, STR 1/2" MNPT - 3/8" PTC BPP
7	5109928	1	MANIFOLD, TEEJET SPRAY SYSTEM
8	5108602	1	FTG, STR 1/4" FNPT - 3/8" PTC BPP
9	5105941	1	PRESSURE GAUGE, 60 PSI, BACK MOUNT
10	5109555	1	BRKT, U CLAMP FOR 2.5" GAUGE
11	5108087	4	SCR-CAP, HSWH .250"-20 X .500" SS188
12	5106160	1	SCREW, 1/4-20 X 2 (A0157)
13	5422133	1	BRKT, LOWER VALVE MOUNT
14	5109962	4	VALVE, 2-WAY, 1/2NPTM X 1/2NPTF
15	5106665	3	FITTING, 1/2 MPT - 1/2 BARB, 90 ELBOW
16	5422134	1	BRKT, VALVE ATONEMENT COVER
17	5106668	2	FITTING, TEE, 1/2" FPT
18	5110026	3	FITTING, 1/2 MPT - 3/4 BARB, 90 ELBOW
19	5108461	1	FTG, STR 3/4" MNPT - 3/4"HB BPP
20	5110028	1	FITTING, 1/2 FPT EXTENSION
21	5110029	2	NIPPLE, 1/2 MPT - 1/2 MPT
22	5108632	1	STRAINER, Y 3/4" FNPT X 3/4" FNPT
23	5108265	1	CLIP, .750" O.D. OIL DRAIN HOSE
24	5108503	1	SCR-CAP, SBH #10-24 X .750" SS188
25	5108133	1	NUT-HEX-NYLK, FLG .#10-24 SS188
26	5109896	1	PUMP, DELEVAN 5 GPM 5950-117E
27	5110050	2	FITTING, 3/4" QA X 3/4" BARB 90 ELBOW
28	84008744	4	CLAMP
29	5110420	4	CLAMP, PINCH 27mm TO 30.1mm
32	5423600	1	HOSE, GAUGE 0.375" PTC X 10"
33	5422299	1	HOSE, CHEM .75" I.D. X 42"
34	5422300	1	HOSE, CHEM .75" I.D. X 19"
35	5422301	1	HOSE, CHEM .75" I.D. X 15.5"
37	5423599	1	HOSE, CHEM 0.50" X 49"
39	5106683	2	CLAMP, MINIATURE WORM GEAR MAH6
40	5106021	4	SCR-CAP, HEX .250"-20 X 1.500" SSF593C
41	5107655	4	NUT-HEX-NYLK, FLG .250"-20 SS188
42	5106067	4	WSHR-STL, FLT .281" X .625" X .050" IS SS188
43	5423223	5	WRAP, HOSE 13/16" ID X 12.0"
45	5110254	1	HEAT SINK, DELEVAN 5000 SERIES
46	5422296	2	HOSE, CHEM .5" I.D. X 68"

Spray Valving Group (2)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: LZ250500V



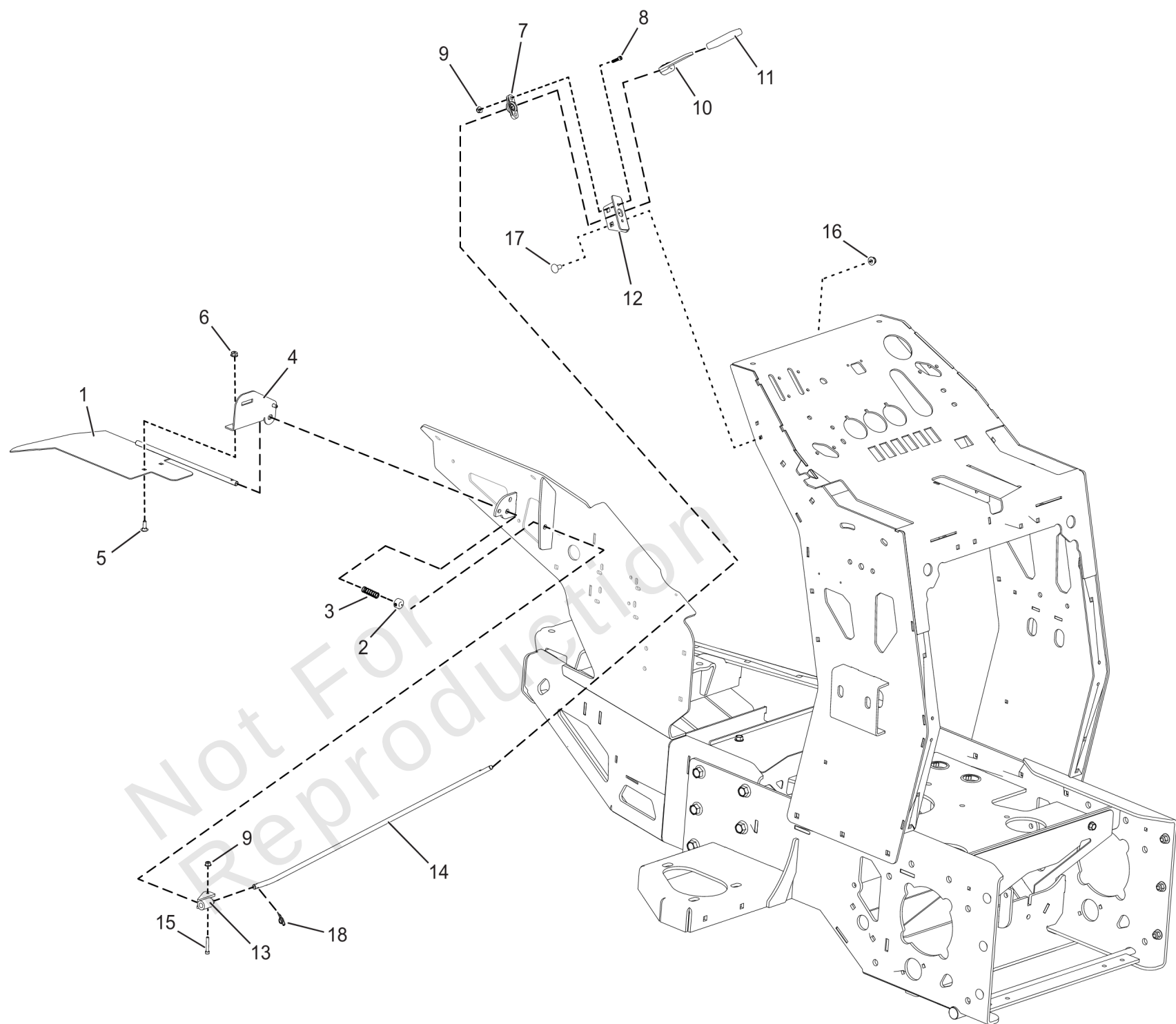
Spray Valving Group (2)

REF NO	PART NO	QTY	DESCRIPTION
15	5106665	2	FITTING, 1/2 MPT - 1/2 BARB, 90 ELBOW
18	5110026	2	FITTING, 1/2 MPT - 3/4 BARB, 90 ELBOW
28	84008744	4	CLAMP
29	5110420	8	CLAMP, PINCH 27mm TO 30.1mm
30	5110388	2	FITTING, CAM LOCK, FEMALE, 3/4" BARB
31	5110387	2	FITTING, CAM LOCK, MALE, 3/4" BARB
35	5422301	1	HOSE, CHEM .75" I.D. X 15.5"
36	5423217	3	HOSE, CHEM .75" X 34"
37	5423599	1	HOSE, CHEM 0.50" X 49"
38	5420073	1	HOSE, CHEM .50" X 27.5"
44	5423224	2	WRAP, HOSE 1.25" ID X 18.0"

Spreader Deflector

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: LZ250500V



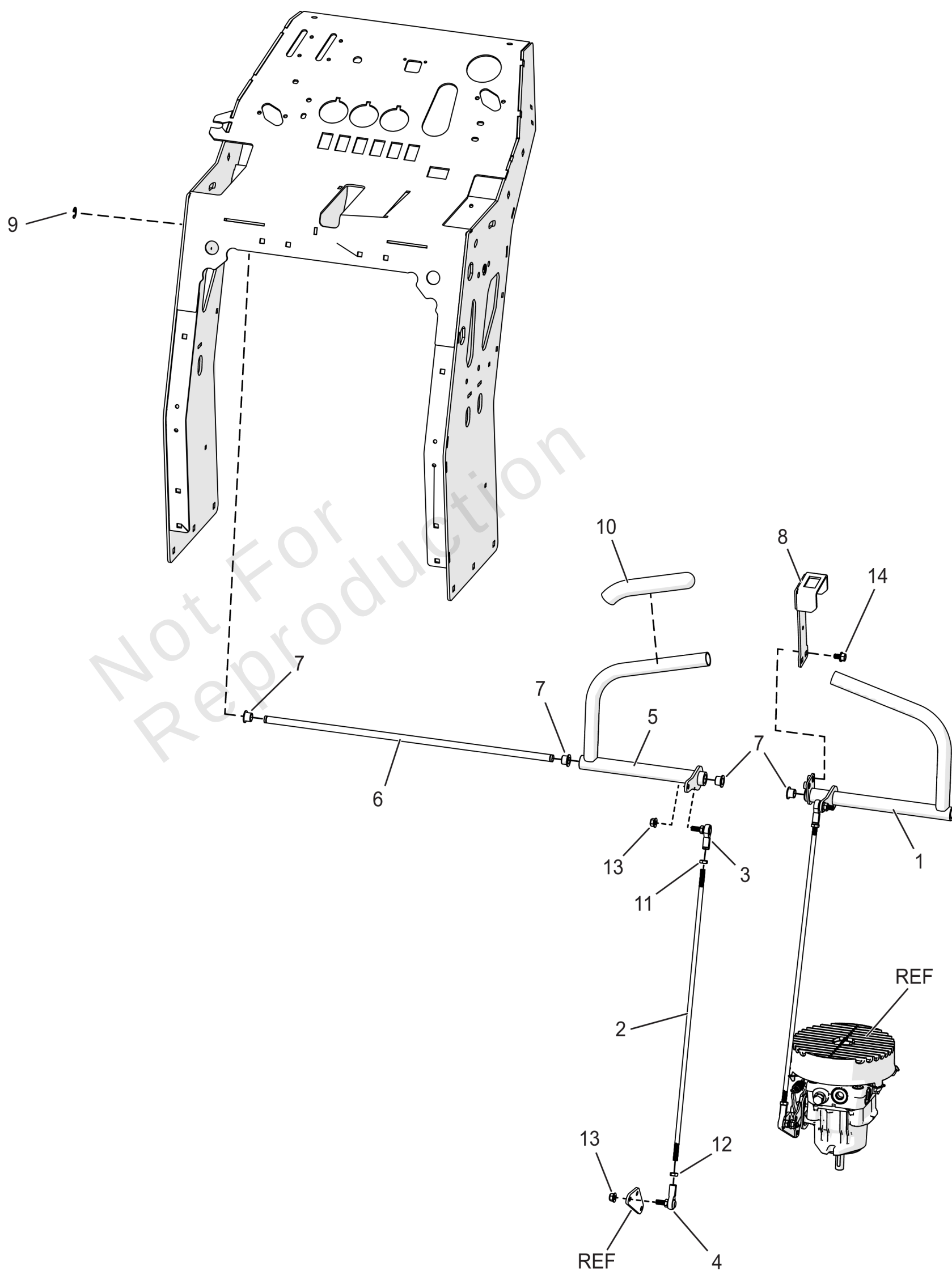
Spreader Deflector

REF NO	PART NO	QTY	DESCRIPTION
1	5422004	1	WELD, DIVERter SHIELD RANGER
2	5106023	1	COLLAR, SHAFT .375ID X .750OD X .375WD
3	5106027	1	SPRING, COMPRESSION .480" OD X 1.500 LONG SS
4	5420014	1	BRACKET, ACTUATE DEFLECTOR
5	5108774	2	BLT-RDHDSQNK .250"-20 X .750" SS188
6	5107655	2	NUT-HEX-NYLK, FLG .250"-20 SS188
7	5107702	1	BEARING, FLANGE IGUS EFOI-6
8	5107644	2	SCR-CAP, SH #10-24 X .750" SS188
9	5108133	3	NUT-HEX-NYLK, FLG .#10-24 SS188
10	5420027	1	WELD, LEVER TRIM SHIELD
11	5105900	1	GRIP, .188" X 1.00" ID X .150" THK CLSD CELL FOAM
12	5422001	1	BRKT, TRIM SHIELD CONTROL MOUNT
13	5422692	1	WELD, DEFLECTOR SWIVEL JOINT
14	5110199	1	ROD, DEFLECTOR CONTROL
15	5106674	1	SCR-CAP SH, #10-24 X 1.250" SS188
16	5107653	2	NUT-HEX-NYLK, FLG .3125"-18 SS188
17	5107688	2	BLT-RDHDSQNK, .3125"-18 X .750" SS188
18	5107640	1	RING, RUE .375" SS

Steering

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: LZ250500V



Steering

REF NO	PART NO	QTY	DESCRIPTION
1	5421269	1	WELD, SPEED CONTROL RH
2	5109936	2	ROD, CONTROL 5/16-24 THD 21.50 MZ
3	5104495	2	BALL JOINT, 5/16-24 LH FEMALE W/STUD, BR
4	5104833	2	BALL JOINT, 5/16-24 RH FEMALE W/STUD, BR
5	5421270	1	WELD, SPEED CONTROL LH
6	5109934	1	SHAFT, STEERING LEVERS
7	5108816	4	BSHG-FL, .500" X .625" X .500", .875"x .062" IR
8	5420651	1	WELD, ROCKER SWITCH MOUNT BRACKET
9	5106691	2	E-RING, 0.500" SHAFT YZ
10	5106278	2	GRIP, MOTION CONTROL
11	5106688	2	NUT-HEX, JAM .3125"-24 SS188
12	5107673	2	NUT-HEX, JAM .3125"-24 LH SS188
13	5108500	4	NUT-HEX-NYLK, FLG .3125"-24 ZP
14	5108654	2	SCR-CAP, HSWH .3125"-18 X .500" SS188
REF	SEE FOOTNOTE		SEE CONTEXT -SEE TRANSMISSION GROUP

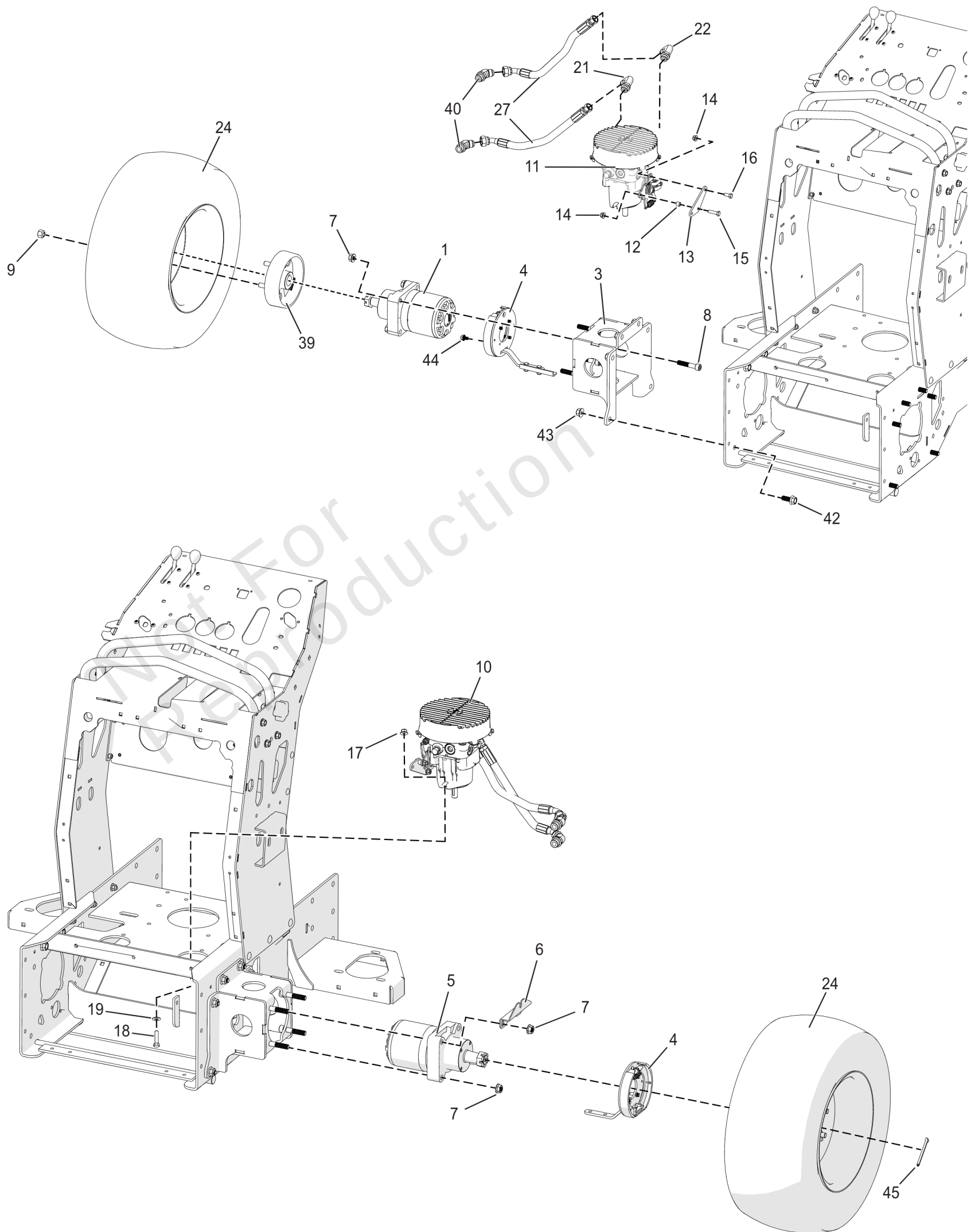
Footnotes:

SEE TRANSMISSION GROUP

Transmission Group (1)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: LZ250500V



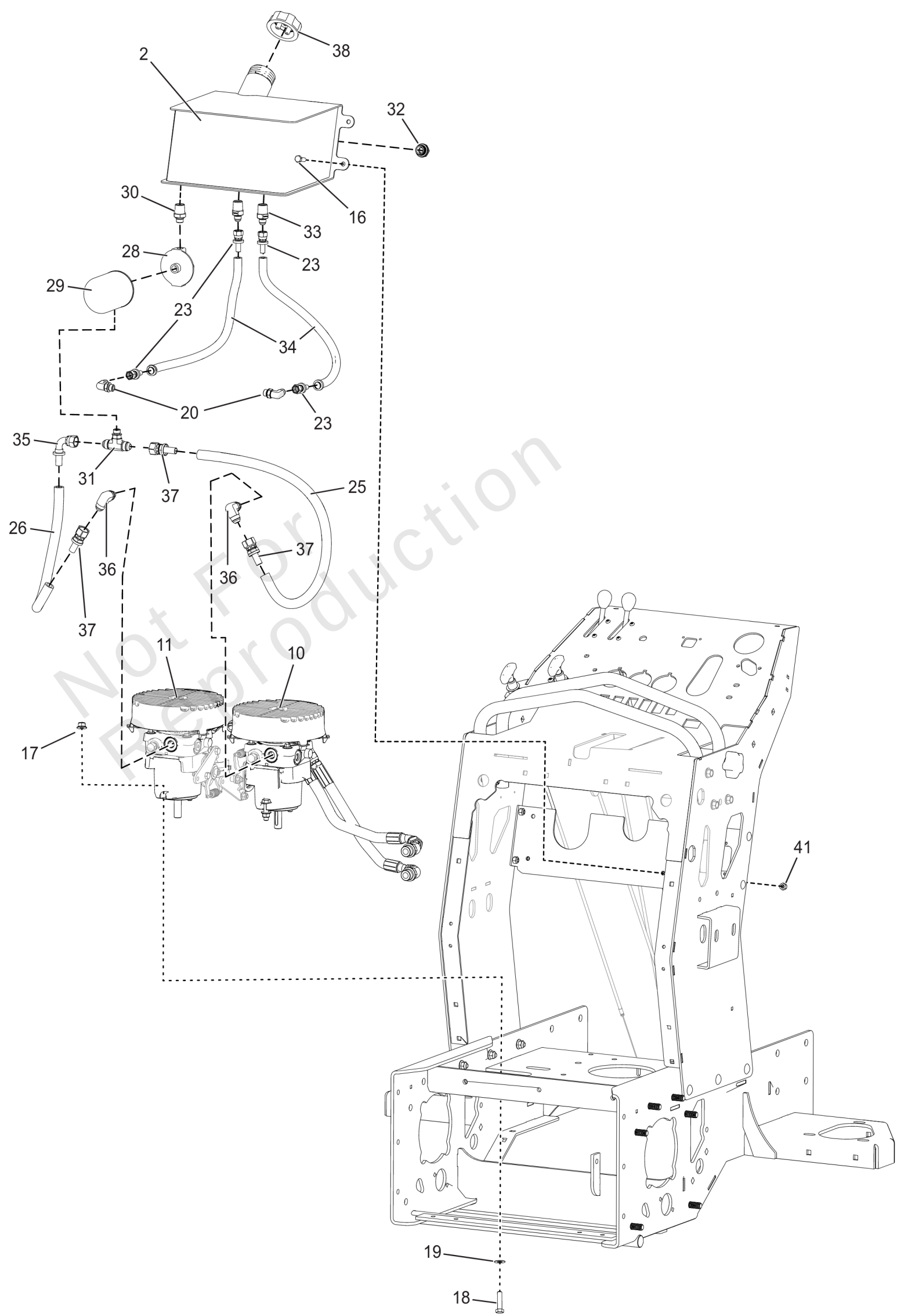
Transmission Group (1)

REF NO	PART NO	QTY	DESCRIPTION
1	5109513	1	MOTOR, TG0335LS080ABDK FLANGE PORT LH
3	5423146	2	WELD, MOTOR POD RANGER 46
4	5109518	2	BRAKE, 6" PARKING DRUM 490164
5	5109514	1	MOTOR, TG0335LS081AAXP FLANGE PORT RH
6	5421555	1	BRKT, SPEED SENSOR
7	5025396	8	NUT, Hex Flange, Nylock, 1/2-13
8	5025699	8	SHCS, 0.5 -13 X 2.5 BLACK OXIDE
9	5105964	10	NUT-LUG, .500"-20 ZP
10	5109512	1	PUMP, 12CI PK-CHCB-GH1G-XLXX RH
11	5109511	1	PUMP, 12CI PK-3KCC-GG1G-XLX LH
12	5110391	2	SPACER 3/8" x 0.5 OD x 0.375 LG
13	5421258	2	BRKT, PUMP CONTROL
14	5107653	4	NUT-HEX-NYLK, FLG .3125"-18 SS188
15	5106233	2	SCR-CAP, HEX .3125"-18 X 1.250" SS188
16	5106024	2	SCR-CAP, HEX .3125"-18 X .750" SS188
17	5107638	4	NUT-HEX-NYLK, FLG .375"-16 SS188
18	5106069	4	SCR-CAP, HEX .375"-16 X 1.500" SS188
19	5106168	4	WSHR-STL, FLT .406" X .875" X .050" IS SS188
21	5109975	2	FITTING, 6801-08-08
22	5109976	2	FITTING, 6801-L-08-08
24	5109776	2	WHEEL/TIRE 23X10.5-12 +1.75 OFF
27	5109547	4	HOSE, WHEEL MOTOR SUPPLY 4636
39	5109550	2	DRUM, 6" BRAKE 490216
40	5109972	4	FITTING, 7/8 45 DEG, 6802-10-10
42	5110055	12	SCR-CAP, HWHW .500"-13 X 1.250"
43	5107637	12	NUT-HEX-NYLK, FLG .500"-13 SS188
44	5108654	8	SCR-CAP, HSWH .3125"-18 X .500" SS188
45	5025721	2	PIN, COTTER .125 X 2.50 CZ

Transmission Group (2)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: LZ250500V



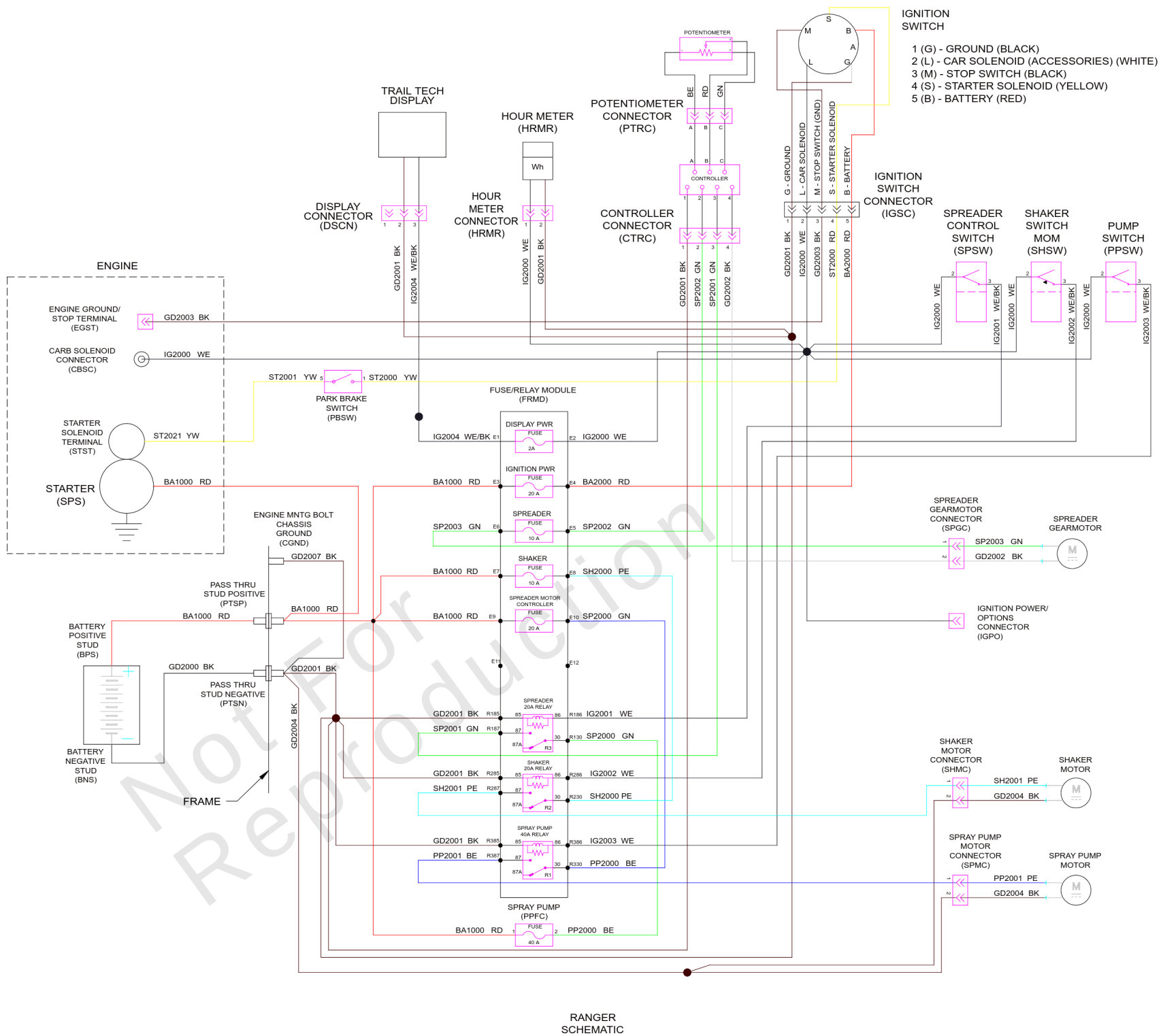
Transmission Group (2)

REF NO	PART NO	QTY	DESCRIPTION
2	5110268	1	RESERVOIR, HYDRAULIC OIL 2.50 GAL. STEEL
10	5109512	1	PUMP, 12CI PK-CHCB-GH1G-XLXX RH
11	5109511	1	PUMP, 12CI PK-3KCC-GG1G-XLX LH
16	5106024	4	SCR-CAP, HEX .3125"-18 X .750" SS188
17	5107638	4	NUT-HEX-NYLK, FLG .375"-16 SS188
18	5106069	4	SCR-CAP, HEX .375"-16 X 1.500" SS188
19	5106168	4	WSHR-STL, FLT .406" X .875" X .050" IS SS188
20	5109973	2	FITTING, 6801-06-06
23	5109977	4	FITTING, 30682-6-6
25	5422292	1	HOSE, PUSH-LOK 1/2 I.D. X 26.25
26	5422293	1	HOSE, PUSH-LOK 1/2 I.D. X 15.5
28	5023096	1	FILTER HEAD, HYDRAULIC
29	1719168	1	FILTER, OIL
30	5110315	1	FITTING, 6401-06-08
31	5110394	1	FITTING, 6803-08-08-06
32	5110505	1	SIGHT, SHATTER RESISTANT 1/2" NPT
33	5110314	2	FITTING, 2404-06-08
34	5422295	2	HOSE, PUSH-LOK 3/8 I.D. X 15.75
35	5109981	1	FITTING, 33982-8-8
36	5110395	2	FITTING, 6801-08-06
37	5110396	3	FITTING, 4311-08-08
38	5110494	1	CAP, HYDRAULIC KELCH 204846 VENTED
41	5105992	4	NUT-HEX-NYLK, 0.3125"-18 SS188

Wiring Schematic (1)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: LZ250500V



Wiring Schematic (1)

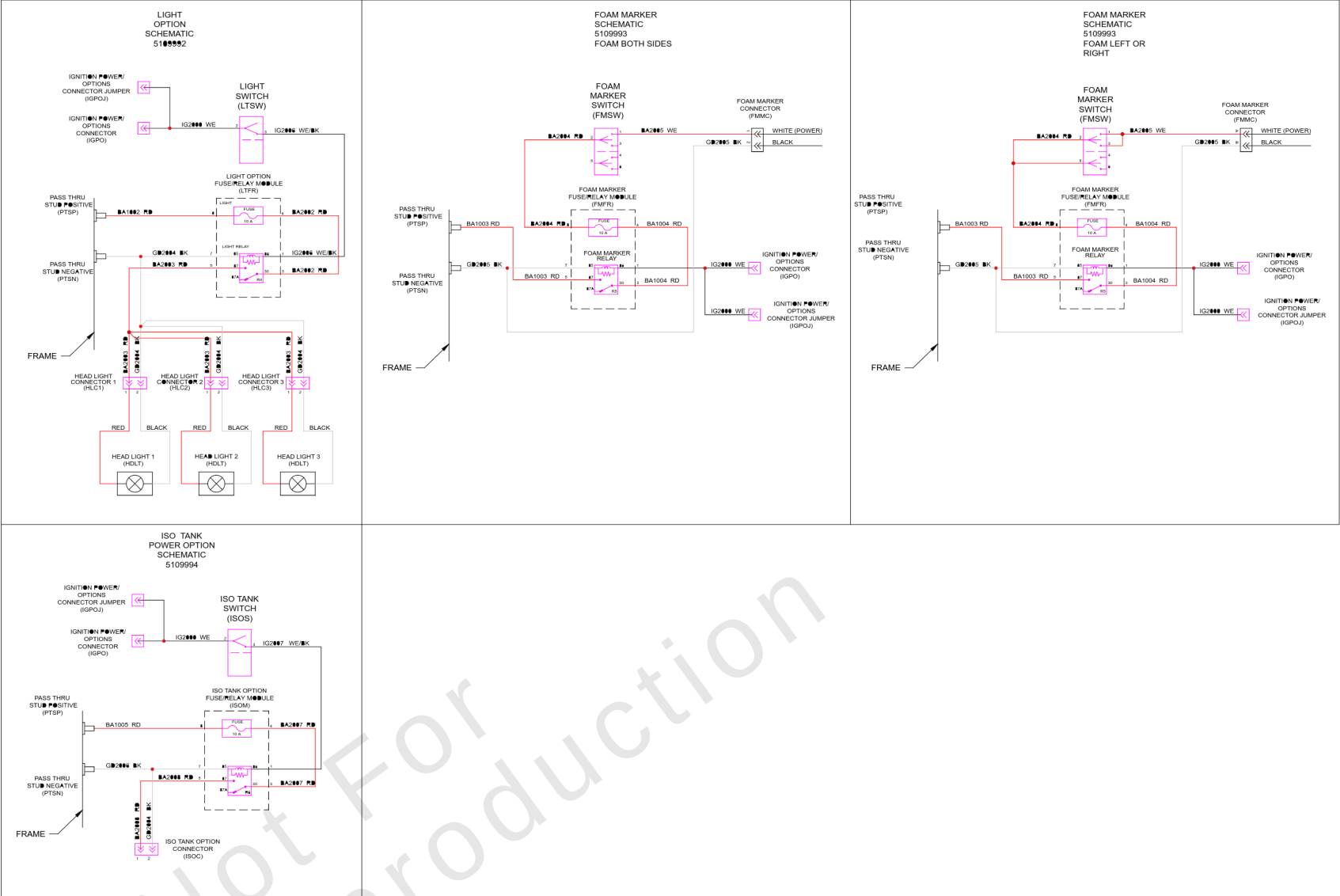
REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Wiring Schematic (2)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: LZ250500V



Wiring Schematic (2)

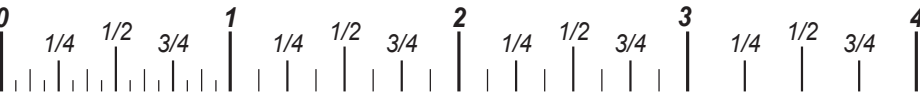
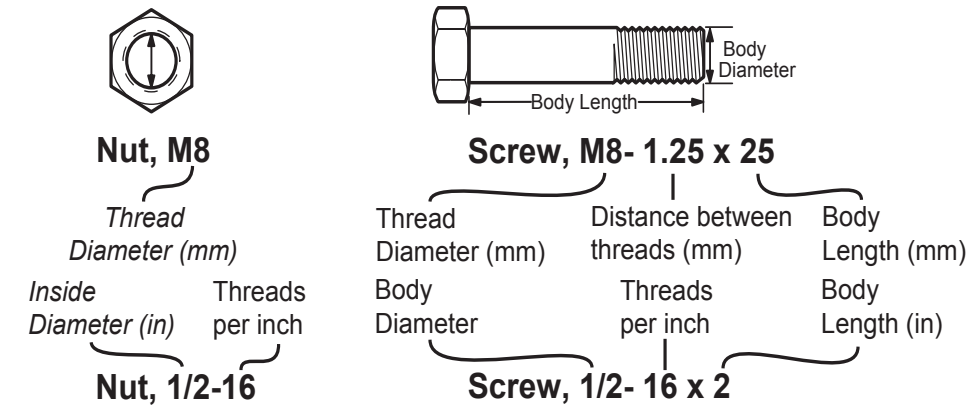
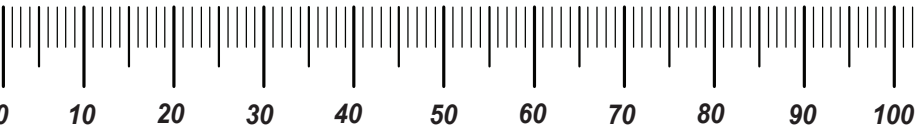
REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.



Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

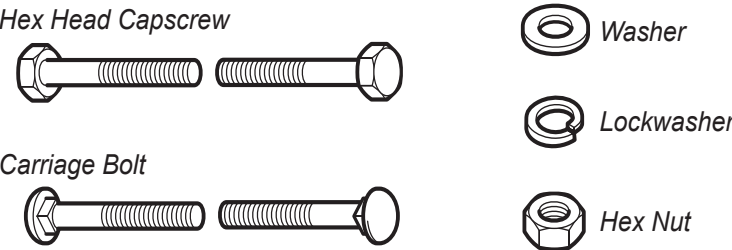
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide

 1/4" Bolt or Nut Wrench—7/16"	 5/16" Bolt or Nut Wrench—1/2"	 3/8" Bolt or Nut Wrench—9/16"	 7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	 1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22mm

