



Parts Manual

Mfg. No: 5901807-Z3000
Z3000, Hurricane Series Stand-On Debris
Blower



5109061 - Tire, Debris Blower, Pavement Tire 20.5 X 8.0-10.

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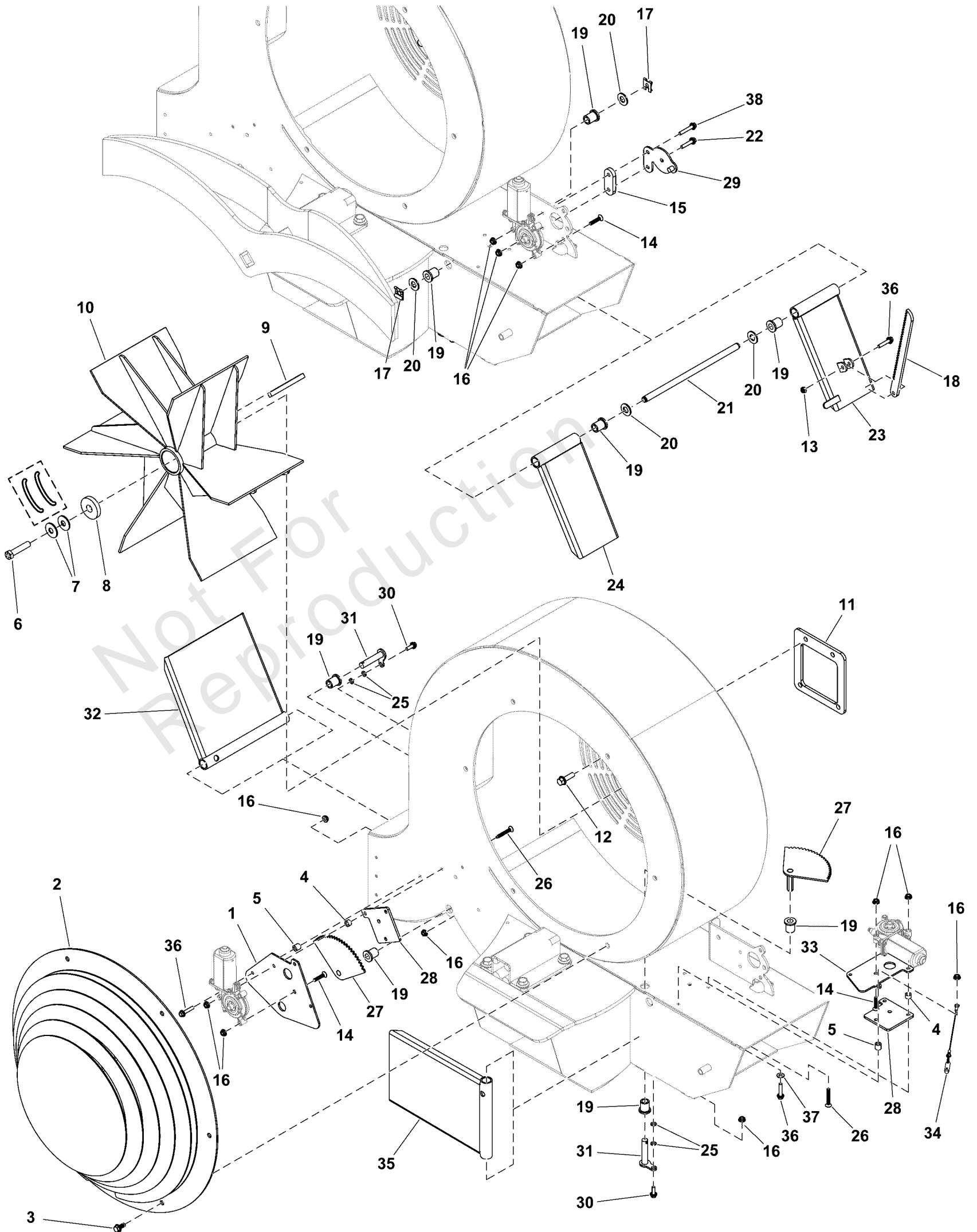
Model Components	Page
Blower Group.....	4
Decal Group - Brand and Model.....	6
Decal Group - Safety and Operational.....	8
Electrical Group S/N: 4002219158 and Below.....	10
Electrical Group S/N: 4002219159 and Above.....	12
Electrical Schematic S/N: 4002219158 and Below.....	14
Electrical Schematic S/N: 4002219159 and Above.....	16
Engine Group.....	18
Fuel Tank and Hose Group.....	20
Handle Bar Group.....	22
Hydraulic Group.....	24
Instrument Control Panel Group.....	26
Main Frame Group.....	28
Motion Control Group.....	30
Parking Brake Group S/N: 4002219158 and Below.....	32
Parking Brake Group S/N: 4002219159 and above.....	34
Wheel and Tire Group.....	36
Torque Specification Chart.....	38

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Blower Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901807-Z3000



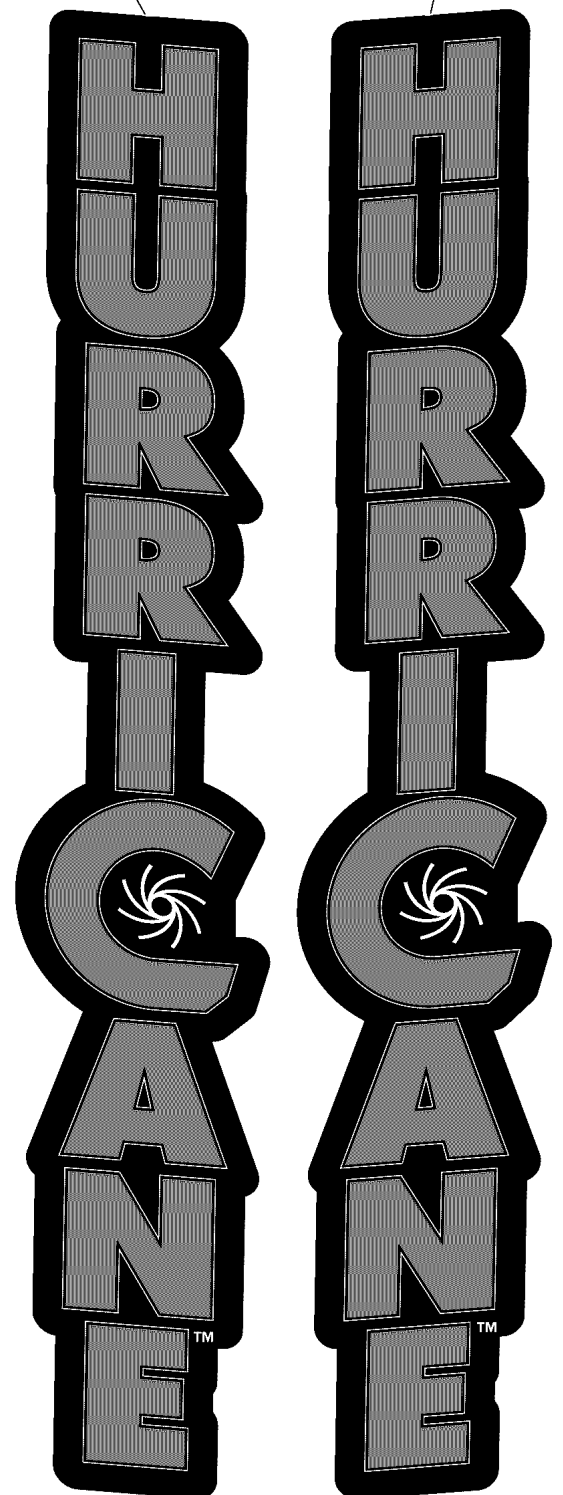
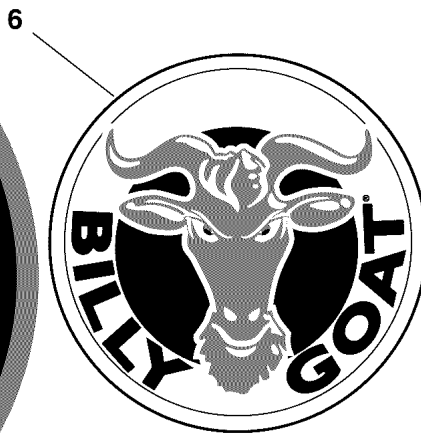
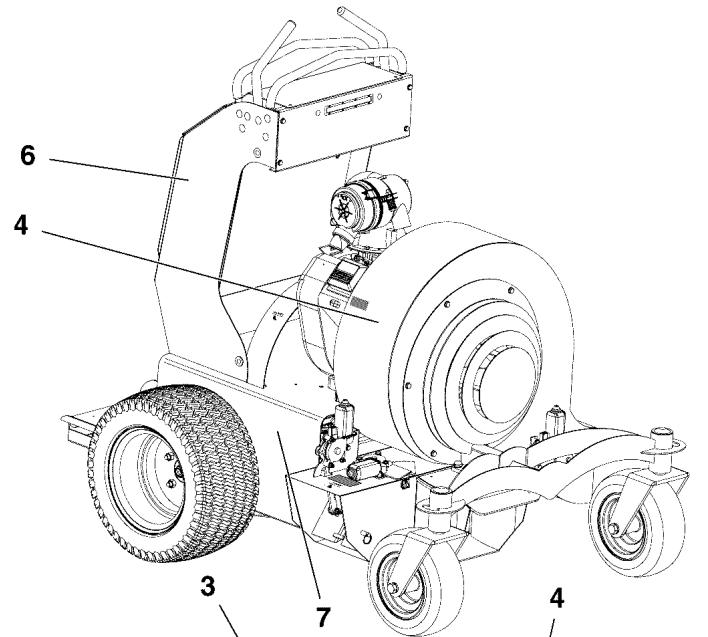
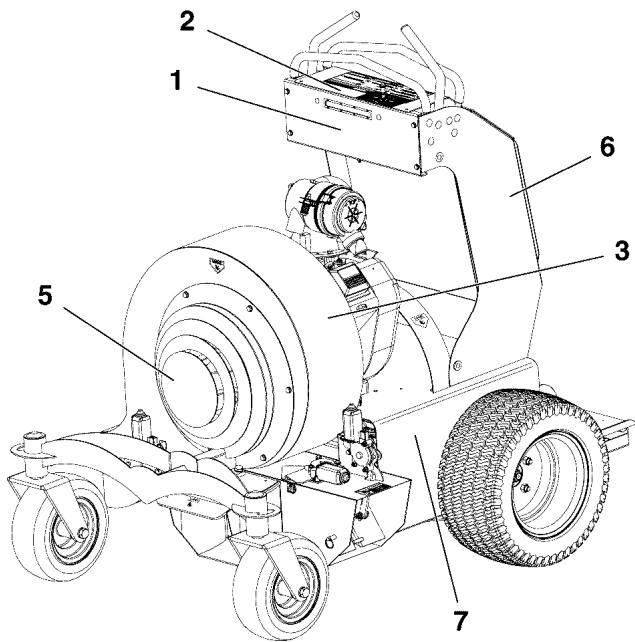
Blower Group

REF NO	PART NO	QTY	DESCRIPTION
1	5107338AFS	1	PLATE
2	5418554AFS	1	COVER
3	703354	6	SCREW, 5/16-18
4	5107396FS	4	SPACER
5	5106902FS	3	SPACER
6	5107308FS	1	BOLT -(Torque impeller mounting bolt to 140 ft-lbs (190 Nm))
7	5108105FS	1	WASHER, BEVELED
8	5107199FS	1	WASHER
9	5106823FS	1	KEY
10	5419590FS	1	IMPELLER
11	5107511FS	1	PLATE, Spacer
12	5025390X8FS	4	BOLT
13	5025095SM	1	NUT, 1/4-20 HEX NYLON
14	5106874FS	4	SCREW
15	5107334AAFS	1	PLATE, Spacer
16	5025126FS	15	NUT
17	5106951FS	2	CLIP
18	5107335FS	1	PLATE
19	5106943FS	8	BUSHING
20	5025158SM	3	WASHER, 1/2" SAE
21	5107281FS	1	ROD, SUPPORT
22	5106873FS	1	BOLT
23	5107483FS	1	DEFLECTOR
24	5107772FS	1	DEFLECTOR
25	5025169FS	4	WASHER
26	5106903FS	4	SCREW
27	5107339AAFS	2	DEFLECTOR
28	5107332AAFS	2	PLATE, SPACER
29	5107333FS	1	KEEPER
30	5106872FS	2	BOLT
31	5107337FS	2	PIN
32	5107496FS	1	DEFLECTOR
33	5107329AFS	1	PLATE -(Plate only, motor shown for reference only.)
34	5107886FS	1	PIN
35	5107468FS	1	DEFLECTOR
36	5106919FS	4	BOLT
37	703332	1	WASHER
38	5025668FS	1	BOLT

Decal Group - Brand and Model

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901807-Z3000



Decal Group - Brand and Model

REF NO	PART NO	QTY	DESCRIPTION
1	5107410	1	DECAL, Z3000 BADGE
2	5107412	1	DECAL, Z3000 TOP PANEL
3	5110335	1	DECAL, Z3000 HURRICANE_VERT, BG,LH
4	5110339	1	DECAL, Z3000 HURRICANE_VERT, RH
5	5110338	1	DECAL, Z3000 FRONT LOGO
6	5107557	2	LABEL, PRODUCT DECAL LG CIRCLE
7	80082701FS	2	DECAL, BRAND

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Decal Group - Safety and Operational

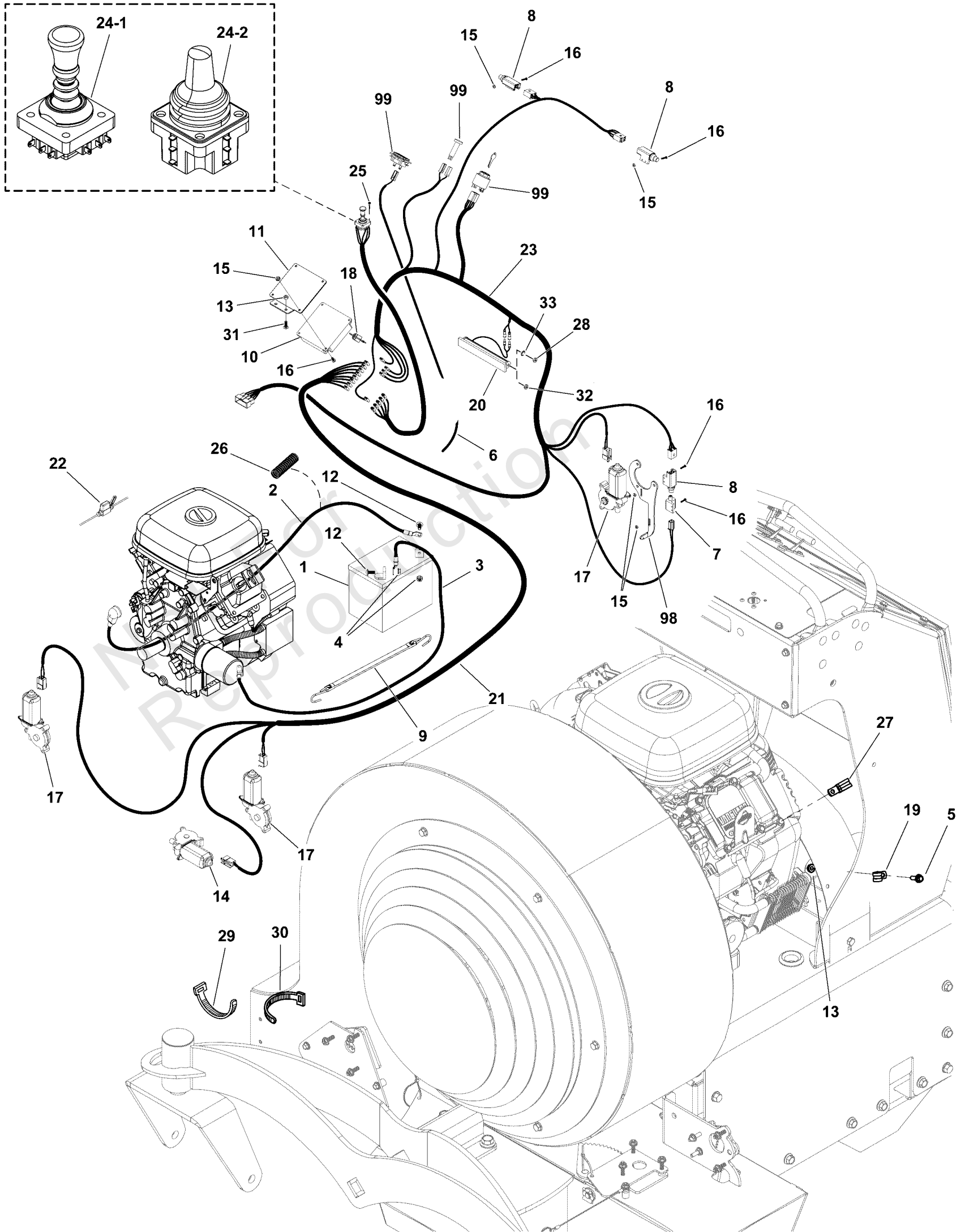
REF NO	PART NO	QTY	DESCRIPTION
1	5107509	1	DECAL, DASH, JOYSTICK
2	5106771	1	DECAL, HOT
3	5106773	2	DECAL, PINCH
4	5106774	1	DECAL, HYDRO
5	5106775	5	DECAL, DANGER
6	5106776	1	DECAL, DASH CONTROLS
7	5106777	2	DECAL, TRANS BYPASS
8	5106778	1	DECAL, EMERGENCY BRAKE RELEASE

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Electrical Group S/N: 4002219158 and Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901807-Z3000



Electrical Group S/N: 4002219158 and Below

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	BATTERY, 11U1L, 350 CCA -(BCIU1, 350 CCA)
2	5107244	1	BATTERY CABLE, POS, 24.69, 5/16-5/16
3	5107245	1	BATTERY CABLE, NEG, 13.50, 5/16-3/8
4	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
5	5106872	2	BOLT, 1/4-20 X 3/4, FLANGE, CZ
6	5107043	1	WIRE HARNESS, TACH X3,Z3 -(End without terminal is wrapped around spark plug wire and secure with wire tie.)
7	5021769	1	SWITCH, PLUNGER, N.C.
8	5106950	3	SWITCH, SAFETY(2P)
9	5106918	1	STRAP, BATTERY
10	5601264	1	KIT, RELAY, CONTROL MODULE -(Includes reference number #18).
11	5107407AA	1	BRACKET, RELAY MOUNT - BLK
12	5025145X6	2	BOLT, 5/16-18 X 3/4, CARRIAGE, GD5, CZ
13	5025126	4	NUT, 1/4-20 HEX SERR. FLANGE
14	5106953	1	MOTOR, DEFLECTOR, LEFT
15	80013127	12	NUT, #10-32, HEX, KEPS, ZC/CL
16	5106875	12	SCREW, #10-32 X 3/4, ALLEN, SS
17	5106952FS	3	DEFLECTOR, Motor
18	5107310	1	CIRCUIT BREAKER, 15A A-RESET
19	5107053	2	CLAMP, VINYL INSULATED, .50
20	5420644	1	HEADLIGHT ASSY - LED
21	5107313	1	WIRE HARNESS, DEFLECTOR, Z3000 JOYSTICK
22	5107311	1	FUSE HOLDER, Z3000
23	5107312	1	WIRE HARNESS, MAIN, Z3000 JOYSTICK
24-1	5601265	1	KIT, JOYSTICK UPDATE -(S/N: 4001275566 and below)
24-2	5108766	1	JOYSTICK ASSEMBLY, DEBRIS BLOWER -(S/N: 4001275567 and above)
25	5106875FS	4	SCREW (#10-32 X 3/4, ALLEN, SS)
26	5050927X17P5	1	WIRE LOOM, 3/8 ID X 17.5 IN
27	5107987	2	CLAMP, VINYL INSULATED, .75
28	5025672	2	NUT, HEX, M5X.8MM, NYLON INSERT -(For headlights with 5MM studs)
29	5021029	2	TIE, SELF-LOCKING, 12"
30	5021030	8	TIE, SELF-LOCKING, 6"
31	80003518	2	BOLT,1/4-20X0.750,GR5,STD NECK,SQ,ZC/CL
32	5025669	2	NUT, HEX, M6-1, NYLON INSERT -(For headlights with 6MM studs)
33	5025673		WASHER, 5MM, STAR, CZ -(For headlights with 5MM studs)
98	-----	0	Refer to: Parking Brake Group
99	-----	0	Refer to: Instrument Control Panel Group

Electrical Group S/N: 4002219159 and Above

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	BATTERY, 11U1L, 350 CCA -(BCIU1, 350 CCA)
2	5107244FS	1	CABLE, BATTERY, RED
3	5107245FS	1	CABLE, BATTERY, BLACK
4	5025127SM	2	NUT, 5/16-18 HEX SERR
5	5106872FS	2	BOLT
6	5107043FS	1	HARNESS, WIRING -(End without terminal is wrapped around spark plug wire and secure with wire tie.)
7	5021769SM	1	SWITCH, PLUNGER, N.C.
8	5106950FS	2	SWITCH
9	5106918FS	1	STRAP, Battery
10	5601264	1	KIT, RELAY, CONTROL MODULE -(Includes reference number #18).
11	5107407AAFS	1	MOUNT
12	5025145X6SM	2	BOLT, 5/16-18 X 3/4",
13	5025126FS	4	NUT
14	5106953FS	1	MOTOR
15	1928919SM	12	NUT-HEX & WASHER ASMY
16	5106875FS	12	SCREW (#10-32 X 3/4, ALLEN, SS)
17	5106952FS	3	DEFLECTOR, Motor
18	5107310FS	1	BREAKER, CIRCUIT, 15A
19	5107053	2	CLAMP, VINYL INSULATED, .50
20	84006903	1	HEADLIGHT ASSEMBLY
21	5107313FS	1	HARNESS, WIRING
22	5107311FS	1	HOLDER, FUSE
23	5107312FS	1	HARNESS, WIRING
24-1	5601265	1	KIT, JOYSTICK UPDATE -(S/N: 4001275566 and below)
24-2	5108766FS	1	KIT, Joystick -(S/N: 4001275567 and above)
25	5106875FS	4	SCREW (#10-32 X 3/4, ALLEN, SS)
26	5050927X17P5	1	WIRE LOOM, 3/8 ID X 17.5 IN
27	5107987FS	2	CLAMP
28	5025672	2	NUT, HEX, M5X.8MM, NYLON INSERT -(For headlights with 5MM studs)(Torque headlight mounting nut to 16-19 in-lbs.)
29	5021029SM	2	TIE, Cable 11" Long
30	5021030SM	8	TIE WRAP, 5-1/2" LONG
31	703575	2	BOLT, 1/4-20X.750, SQ
32	5025669	2	NUT, HEX, M6-1, NYLON INSERT -(For headlights with 6MM studs)
33	5025673	2	WASHER, 5MM, STAR, CZ -(For headlights with 5MM studs)
34	84008626	1	SWITCH, Sealed
35	5104736FS	1	CLIP
36	84008627	1	WIRE HARNESS, JUMPER, BRAKE SWITCH
98	-----	0	Refer to: Parking Brake Group
99	-----	0	Refer to: Instrument Control Panel Group

Electrical Schematic S/N: 4002219158 and Below

Note: Unless noted otherwise, use the standard torque specifications

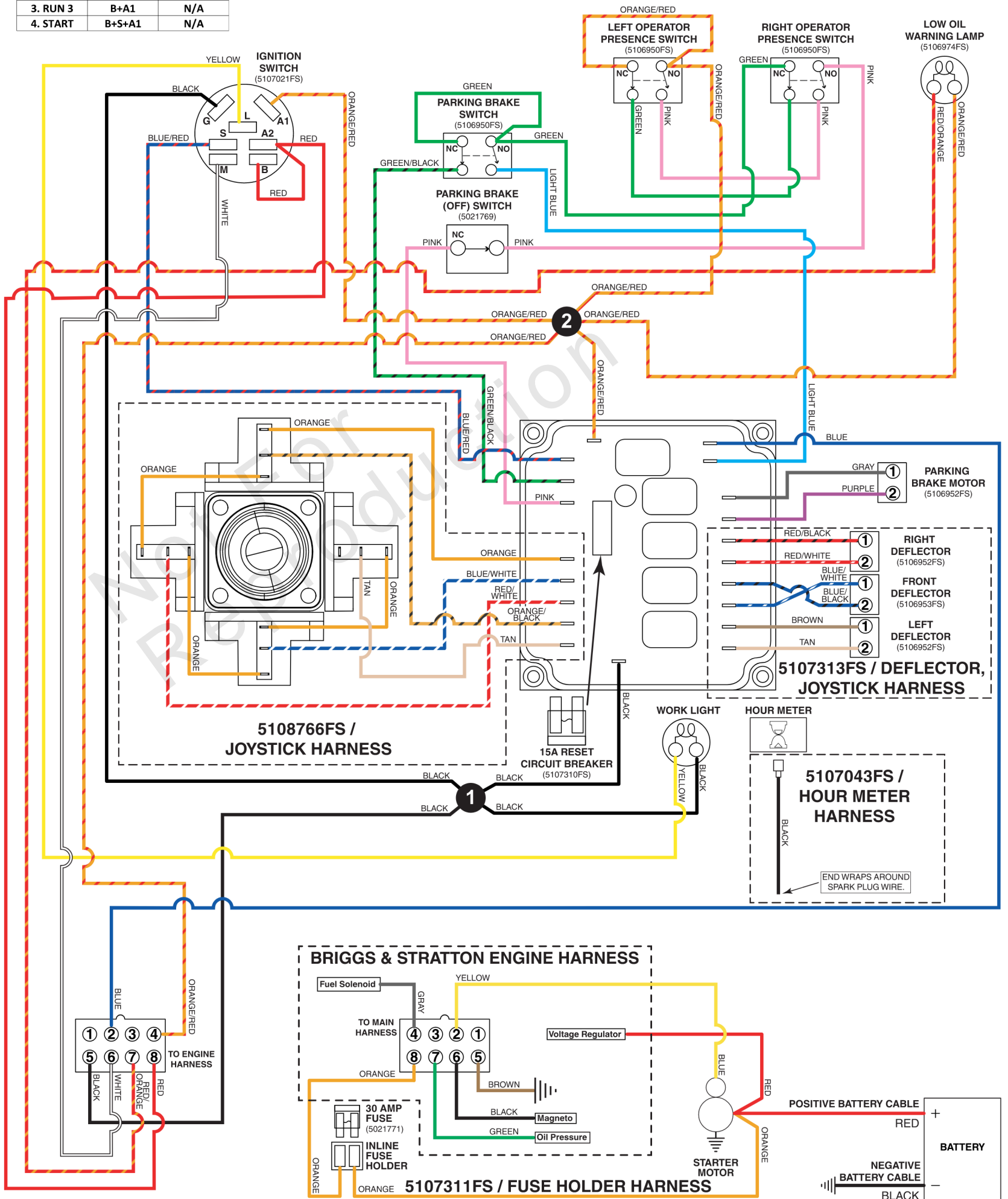
Mfg. No: 5901807-Z3000

5107312FS / MAIN WIRE HARNESS - BRIGGS & STRATTON 613477 ENGINES

5107312A

(If internal schematic of the switch is not shown, the image of the switch represents the back view of the connector as it is connected to the switch.)

IGNITION SWITCH		
POSITION	CONTACT 1	CONTACT 2
1. OFF	M+G+A1	N/A
2. RUN 1	B+A1	L+A2
3. RUN 3	B+A1	N/A
4. START	B+S+A1	N/A



Electrical Schematic S/N: 4002219158 and Below

REF NO	PART NO	QTY	DESCRIPTION
5107312FS	5107312FS	1	HARNESS, WIRING
5108766FS	5108766FS	1	KIT, Joystick
5107313FS	5107313FS	1	HARNESS, WIRING
5107043FS	5107043FS	1	HARNESS, WIRING
5107311FS	5107311FS	1	HOLDER, FUSE

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Electrical Schematic S/N: 4002219159 and Above

Note: Unless noted otherwise, use the standard torque specifications

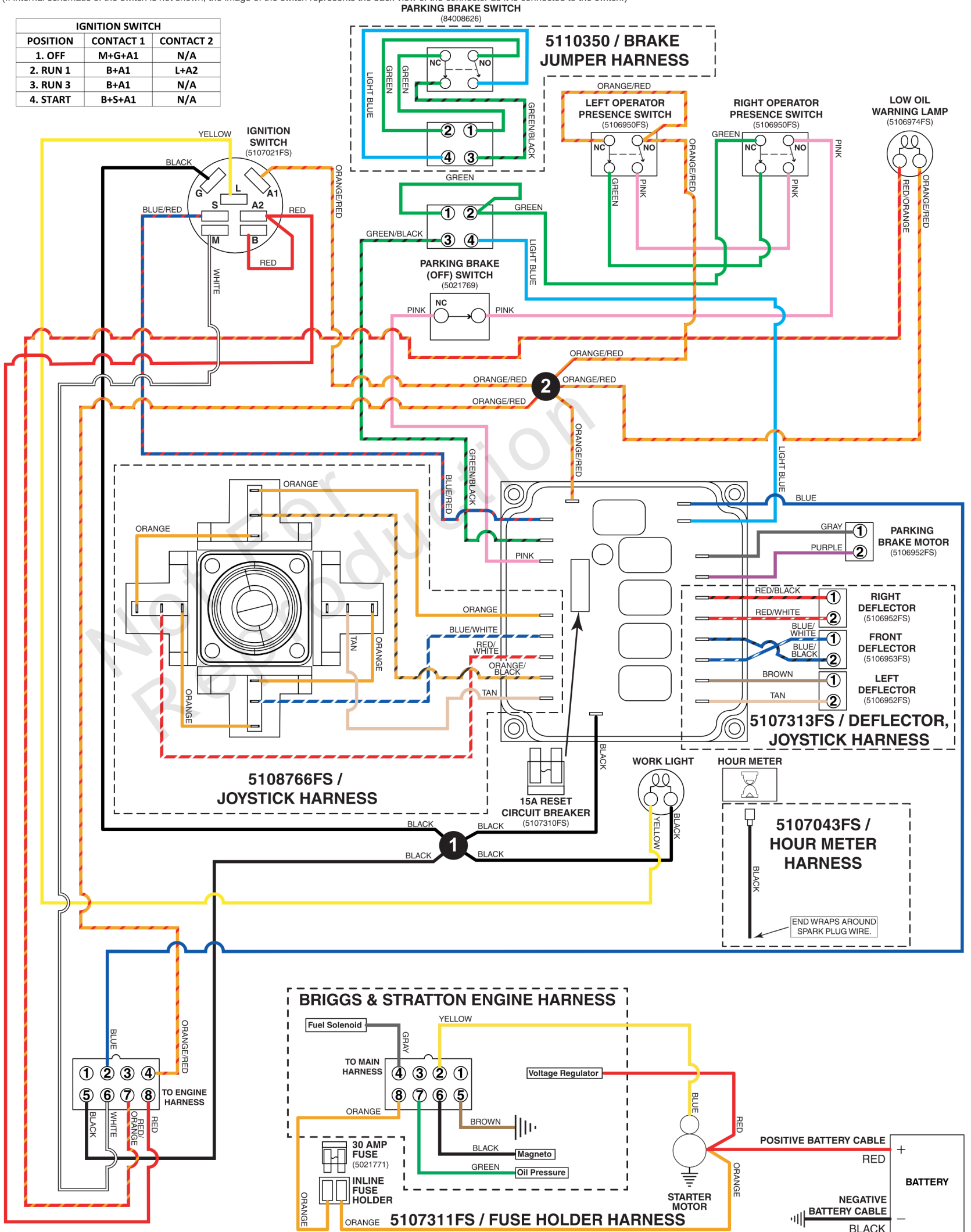
Mfg. No: 5901807-Z3000

5107312FS / MAIN WIRE HARNESS - BRIGGS & STRATTON 613477 ENGINES

5107312B

(If internal schematic of the switch is not shown, the image of the switch represents the back view of the connector as it is connected to the switch.)

IGNITION SWITCH		
POSITION	CONTACT 1	CONTACT 2
1. OFF	M+G+A1	N/A
2. RUN 1	B+A1	L+A2
3. RUN 3	B+A1	N/A
4. START	B+S+A1	N/A



Electrical Schematic S/N: 4002219159 and Above

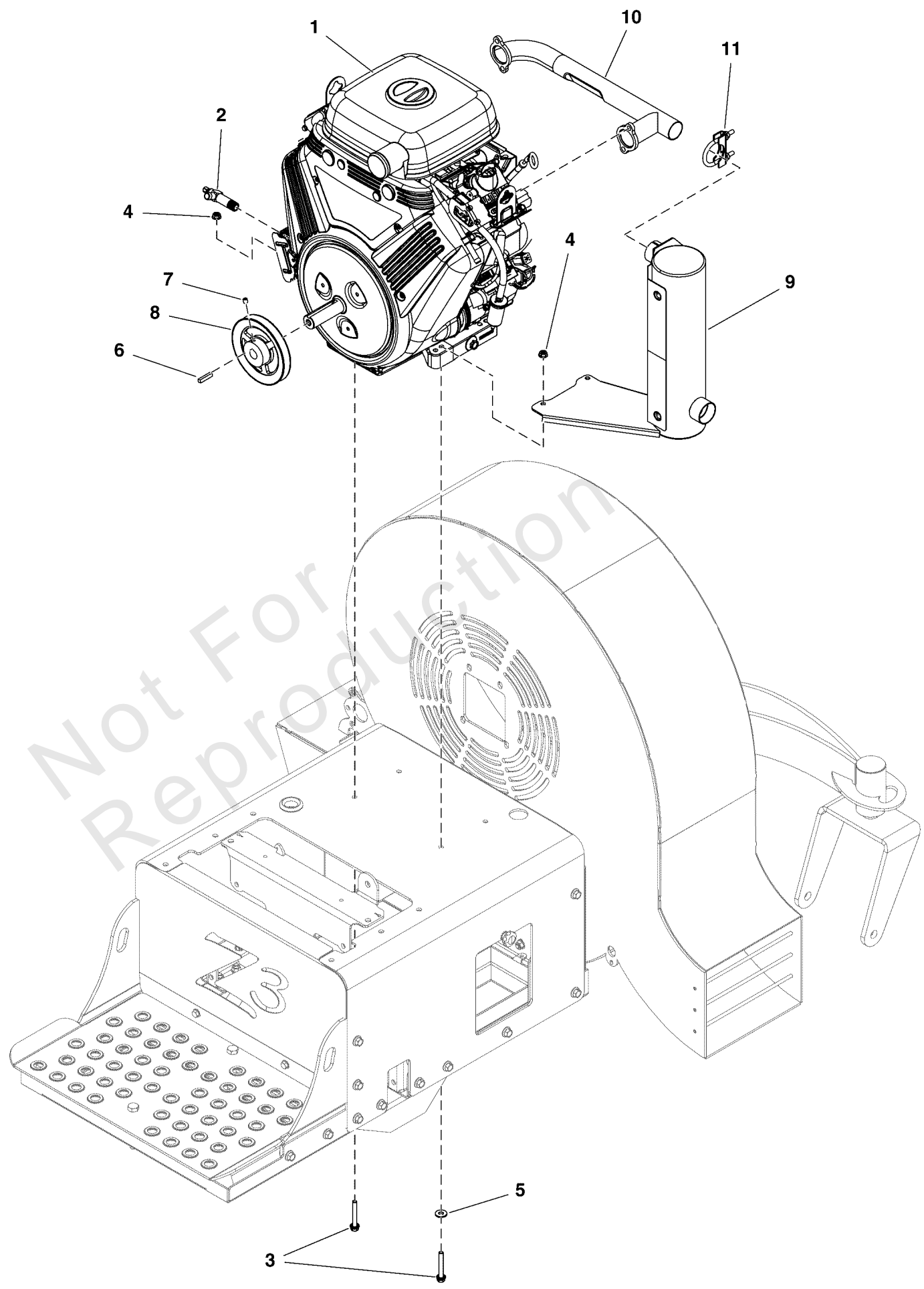
REF NO	PART NO	QTY	DESCRIPTION
5107312FS	5107312FS	1	HARNESS, WIRING
5108766FS	5108766FS	1	KIT, Joystick
5107313FS	5107313FS	1	HARNESS, WIRING
5107043FS	5107043FS	1	HARNESS, WIRING
5110350	84008627	1	WIRE HARNESS, JUMPER, BRAKE SWITCH
5107311FS	5107311FS	1	HOLDER, FUSE

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Engine Group

Note: Unless noted otherwise, use the standard torque specifications

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Engine Group

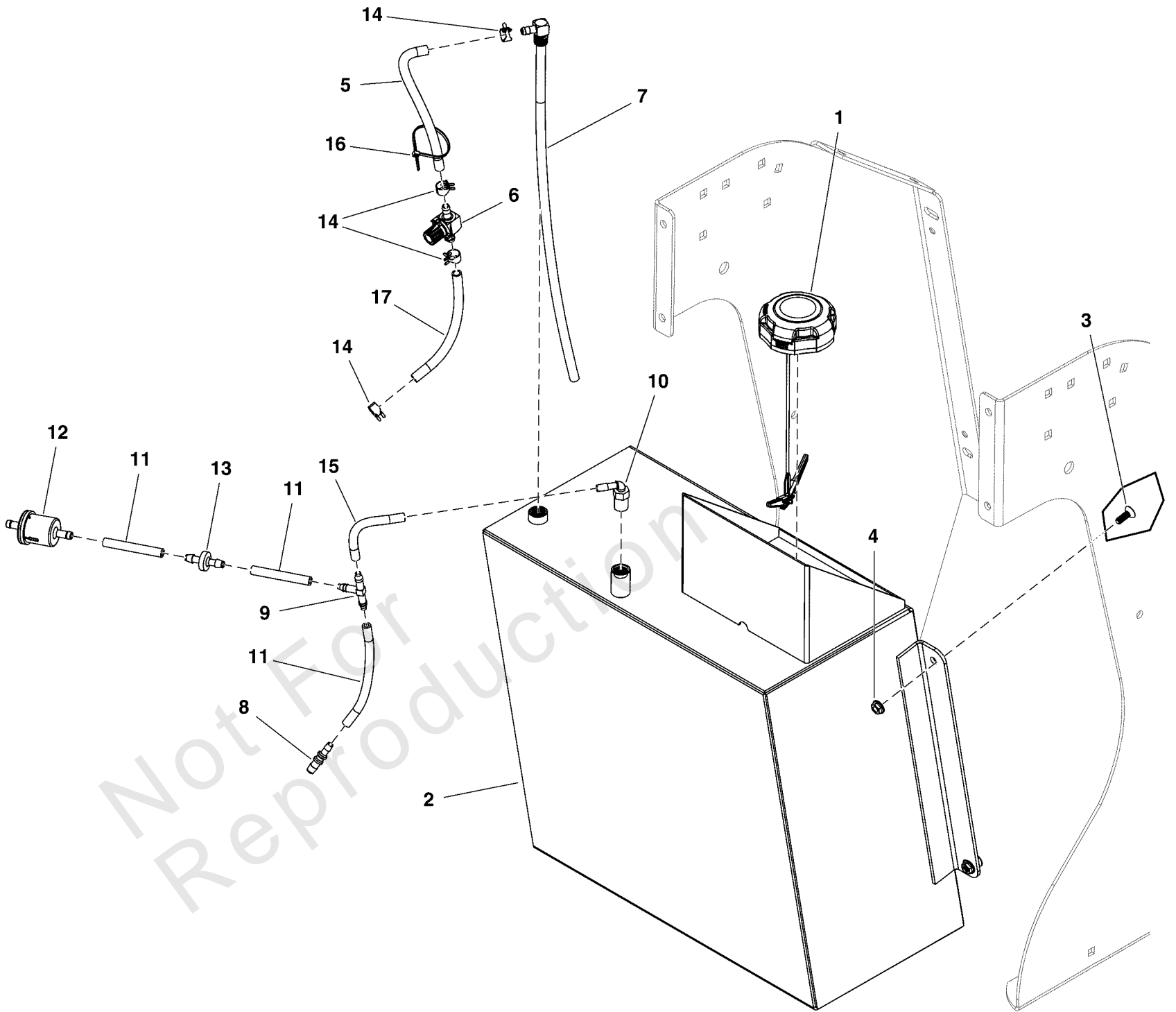
REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	ENGINE, VANGUARD, 993cc
2	5107284FS	1	VALVE, OIL DRAIN SHUT OFF
3	5107304FS	4	BOLT
4	5025127SM	4	NUT, 5/16-18 HEX SERR
5	5107147	1	WASHER, 5/16 FLAT, CZ
6	5050407X10YP	1	KEY, 1/4 SQ X 1-1/4
7	1677029SM	2	SCREW, Set, Hex Socket Head, Cup Point, 5/16-18 x 3/8
8	5107285FS	1	PULLEY
9	5109327FS	1	MUFFLER
10	5109328FS	1	MANIFOLD
11	5107305FS	1	CLAMP, Muffler

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Fuel Tank and Hose Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901807-Z3000



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Fuel Tank and Hose Group

REF NO	PART NO	QTY	DESCRIPTION
1	5107316	1	FUEL CAP, 2.0, NON VENTED
2	5418869	1	WELD, FUEL TANK, BLOWER -(S/N: 4001291676 and below)
2	5420219	1	ASSM, FUEL TANK, BLOWER -(S/N: 4001291677 and above)(Refer to Note: *)
3	5106863	4	SCREW, 1/4-20 X 3/4, FPHMS, SS
4	5025126	4	NUT, 1/4-20 HEX SERR. FLANGE
5	5050831X6	1	HOSE, 1/4" FUEL, 6" LONG
6	5107072	1	VALVE, FUEL SHUT OFF
7	5107073	1	PICKUP TUBE ASM,FUEL 16.75
8	5106957	1	FITTING, 1/4X3/16 REDUCER -(For units with 1/4" hose.)
9	5106956	1	FITTING, 1/4 TEE,BARB TYPE
10	5106954	1	FITTING, 90, 1/4-18 NPT NYLON
11	7700552X2P5	3	HOSE, VAPOR, 5MM ID, 2.50 LG
12	80025019	1	FILTER, FUEL
13	5106955	1	CHECK VALVE ASMY
14	93807	4	CLAMP, Hose
15	7700552X4	1	HOSE, VAPOR, 5MM ID, 4.00 LG
16	5021030	1	TIE, SELF-LOCKING, 6"
17	5050831X4	1	1/4" Fuel Line, 4" Long

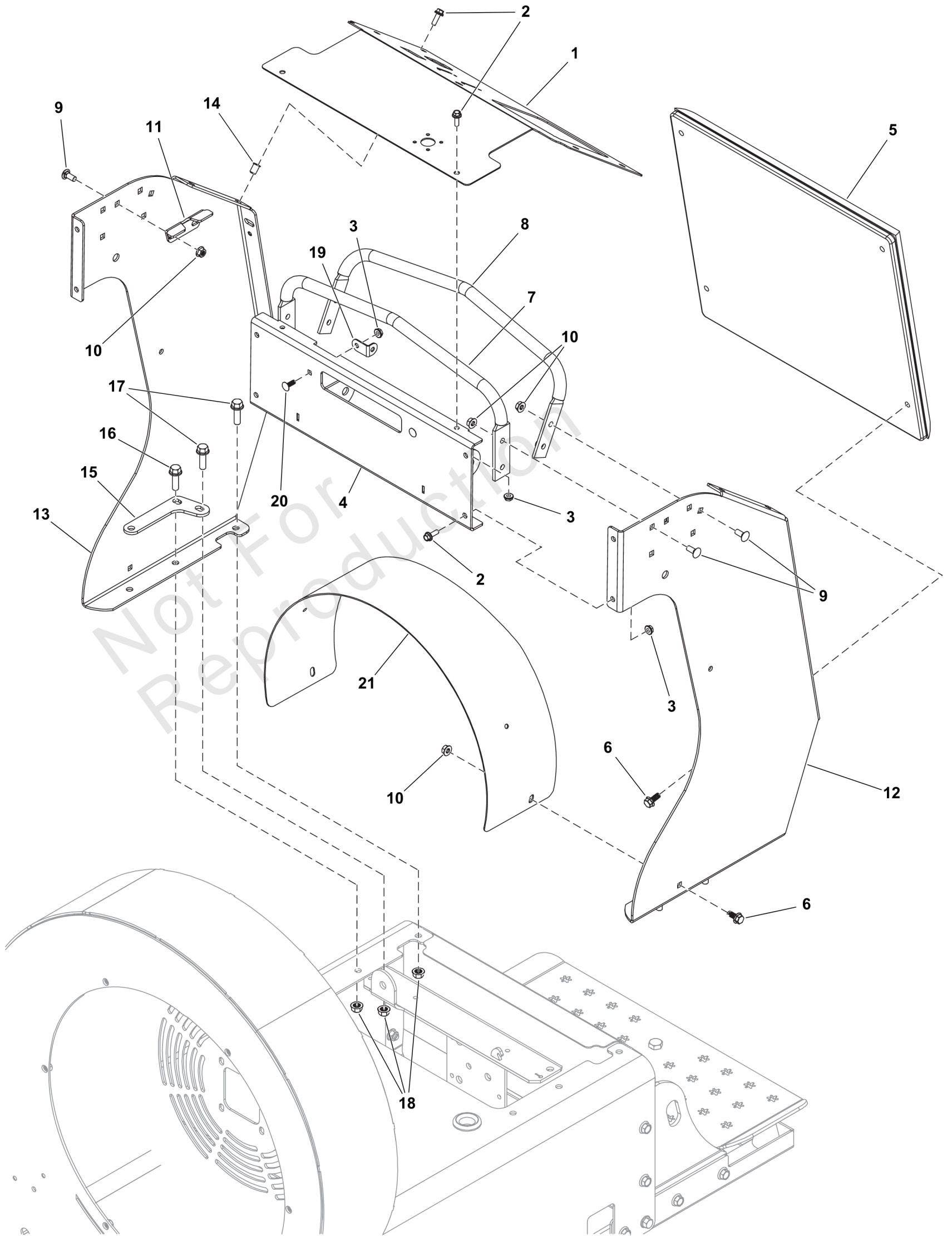
Footnotes:

Note: *Includes reference items #1, #7, and #10.

Handle Bar Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901807-Z3000



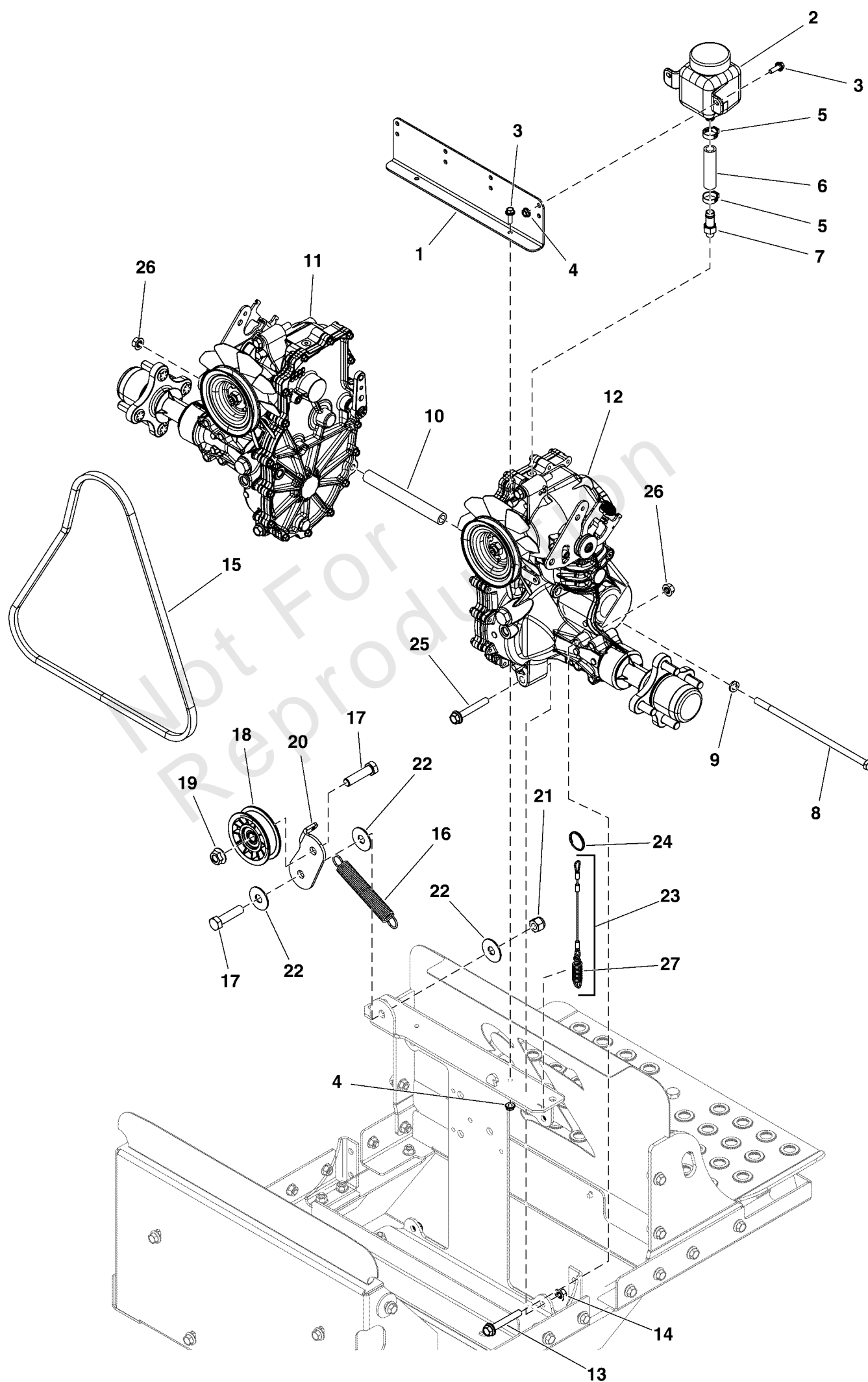
Handle Bar Group

REF NO	PART NO	QTY	DESCRIPTION
1	5601267	1	PLATE, DASH PANEL, NEW WITH DECALS
2	5106872FS	10	BOLT
3	5025126FS	10	NUT
4	-----	1	WELD, DASH FRONT PANEL - ORG
5	5107538FS	1	PAD, KNEE
6	703354	6	SCREW, 5/16-18
7	5107044AFS	1	HANDLE, FRONT
8	5107045AFS	1	HANDLE, REAR
9	5025145X6SM	12	BOLT, 5/16-18 X 3/4",
10	5025127SM	14	NUT, 5/16-18 HEX SERR
11	5107391FS	2	BRACKET
12	5418579AD	1	CONTROL TOWER Z3, LH - ORG
13	5418578AD	1	CONTROL TOWER Z3, RH - ORG
14	5106833FS	4	NUT
15	5107544AFS	2	PLATE
16	704038	4	SCREW
17	704038	4	SCREW
18	5025666FS	8	NUT
19	84007036	2	BRACKET, L Headlight Mount
20	703575	2	BOLT, 1/4-20X.750, SQ
21	5418616AD	1	PLATE, BELT GUARD COVER, Z3 - ORG

Hydraulic Group

Note: Unless noted otherwise, use the standard torque specifications

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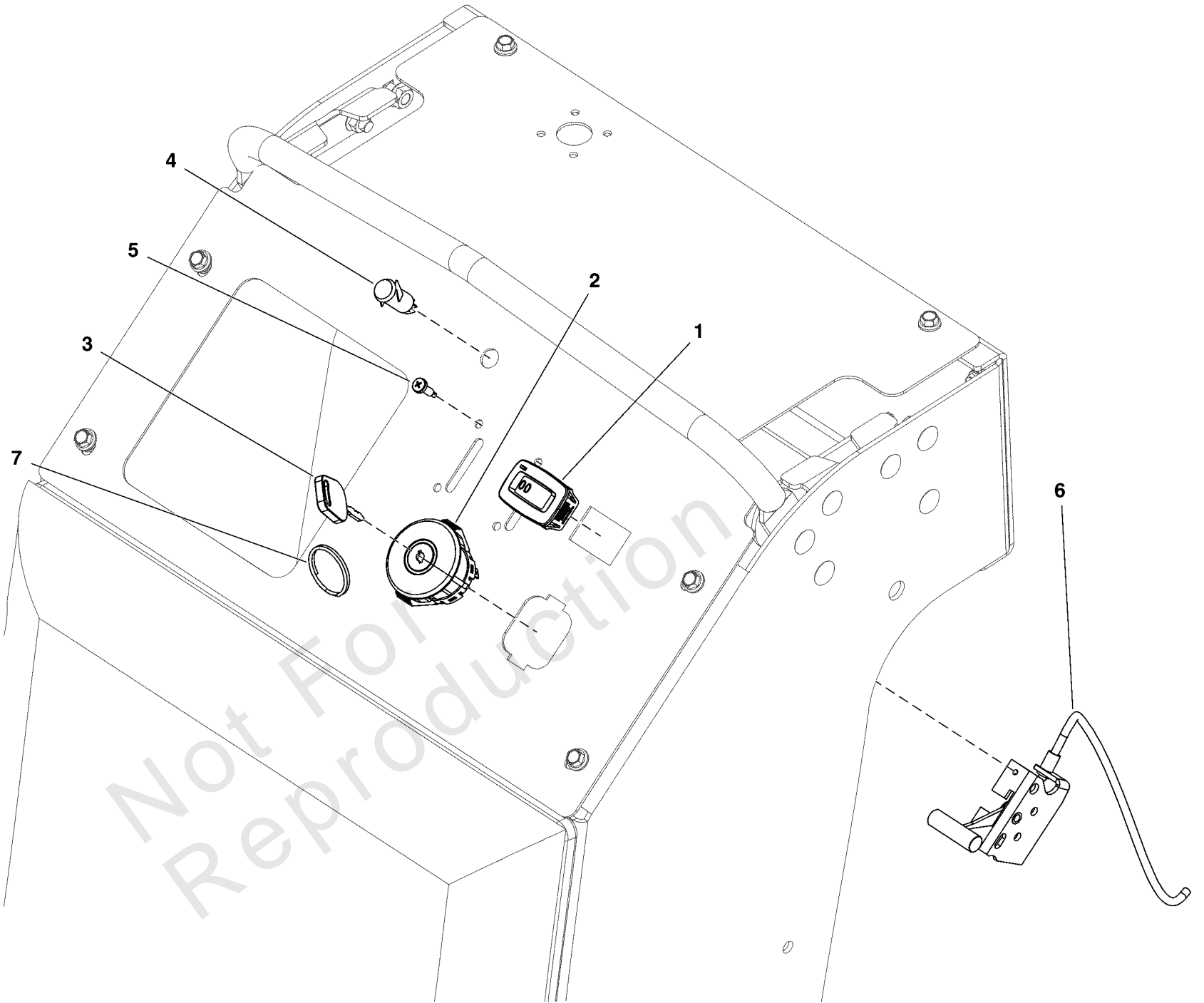
Hydraulic Group

REF NO	PART NO	QTY	DESCRIPTION
1	5107366AAFS	1	MOUNT, TANK
2	5100473SM	2	RESERVOIR
3	5106872FS	6	BOLT
4	5025126FS	6	NUT
5	5025474SM	4	CLAMP - HOSE
6	5050857X2P75FS	2	HOSE
7	5107224FS	2	FITTING
8	5025667FS	1	BOLT
9	5025156FS	1	WASHER
10	5107370FS	1	SPACER
11	5107227	1	TRANSAXLE, ZT3100, RH, ZJ-LPRP-3A7C-19XX -(S/N: 40015467047 and below)
11	84006961	1	TRANSAXLE -(S/N: 40015467048 and above)
12	5107222	1	TRANSAXLE, ZT3100, LH, ZJ-HPRP-3A7B-19XX -(S/N: 40015467047 and below)
12	84006962	1	TRANSAXLE -(S/N: 40015467048 and above)
13	5025670	4	BOLT, HEX, 3/8-16 X 3", SER FLG GRD5, CZ
14	5025666FS	4	NUT
15	5106821FS	1	BELT, DRIVE
16	5106923FS	1	SPRING
17	5025017X16YP	2	BOLT, 1/2-13 X 2 GD5
18	5107103FS	1	PULLEY, IDLER
19	770225	1	NUT
20	5107365AAFS	1	ARM, IDLER
21	5025056FS	1	NUT
22	5107348FS	3	WASHER
23	5107300FS	2	CABLE, Hydraulic Control -(Includes item # 28.)
24	5108012FS	2	KEY
25	5106859FS	4	BOLT
26	5025394SM	5	NUT, 3/8-16 HEX NYLOCK
27	5106888FS	2	SPRING, EXTENSION

Instrument Control Panel Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901807-Z3000



Instrument Control Panel Group

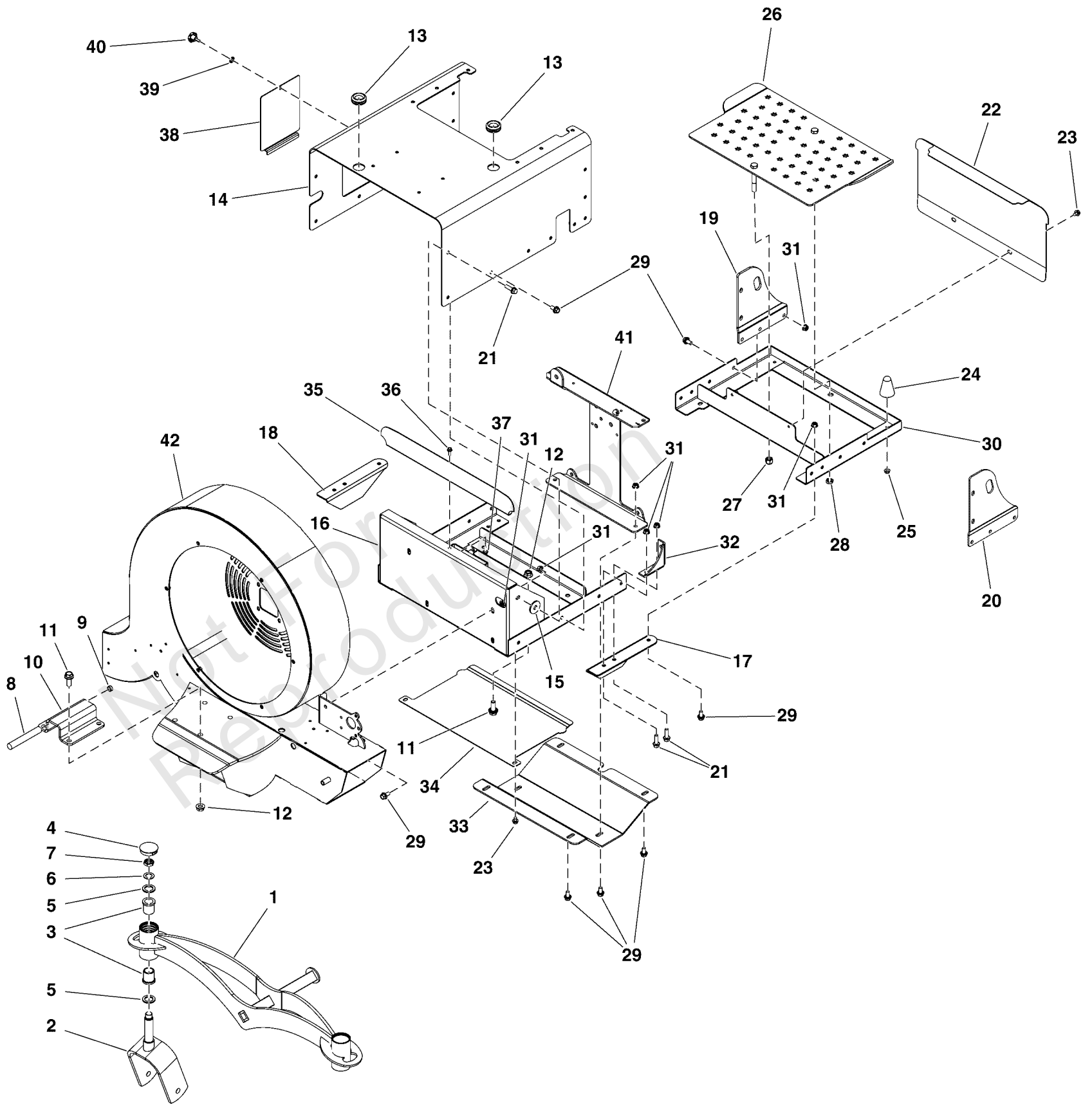
REF NO	PART NO	QTY	DESCRIPTION
1	5106789FS	1	METER, HOUR
2	5107021FS	1	SWITCH, Ignition
3	1714054SM	2	KEY-IGNITIOM W/PLASTI
4	5106974FS	1	LIGHT, INDICATOR
5	5106862FS	4	SCREW
6	5107194FS	2	CABLE, Throttle/Choke
7	5108012FS	1	KEY -(Key Ring for ignition keys)

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Main Frame Group

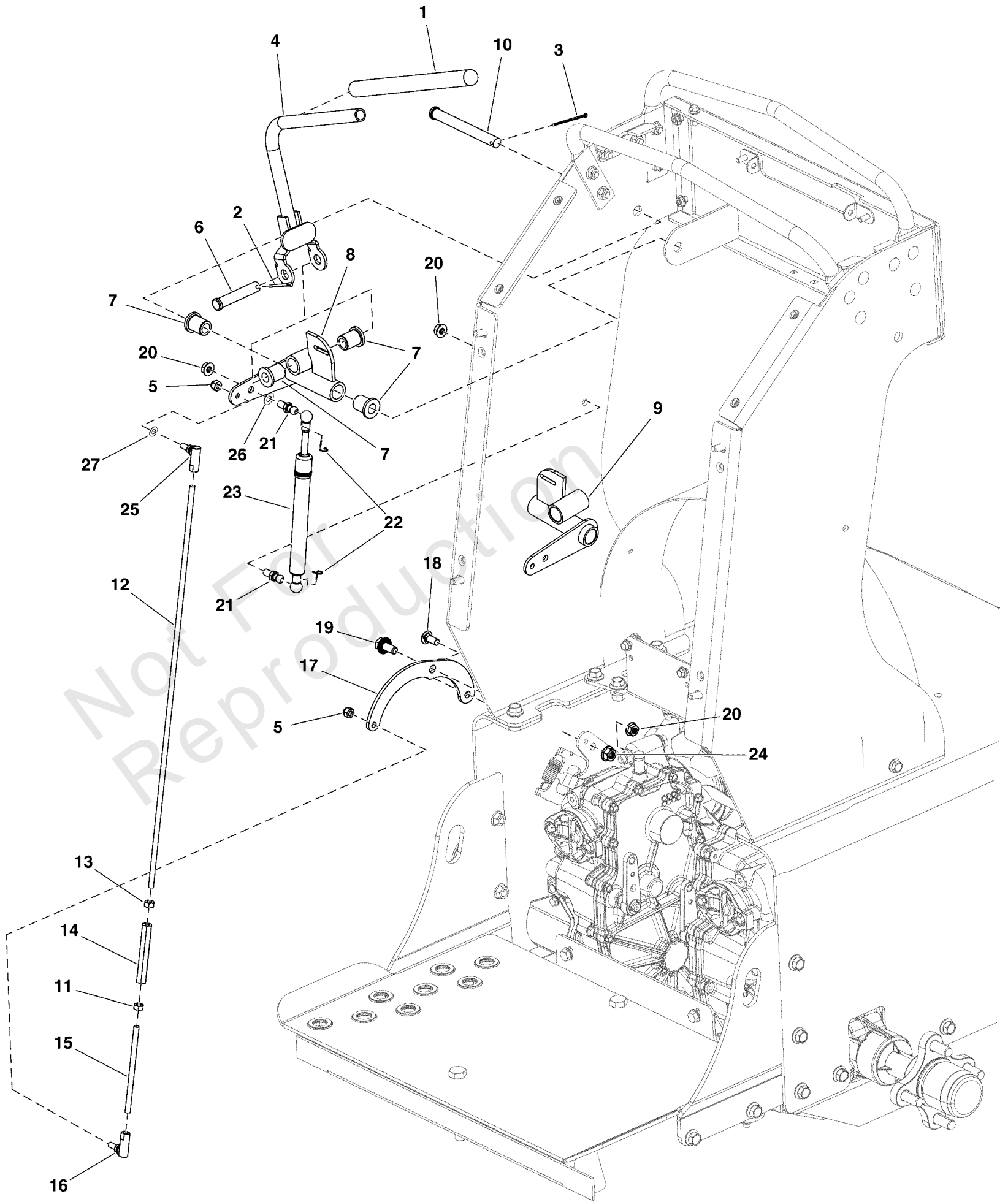
Note: Unless noted otherwise, use the standard torque specifications

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Main Frame Group

REF NO	PART NO	QTY	DESCRIPTION
1	5418613A	1	WELD, FRONT END FRAME, Z3 - BLK
2	5418606A	2	WELD, CASTER FORK, Z3 - BLK
3	5021541	4	BUSHING, FLANGE
4	5107567	2	CAP, GREASE, PLASTIC
5	5107778	4	WASHER, 1 X 10GA, MACH, CZ
6	5106783	2	NUT, 3/4-10, NYLOCK JAM, CZ
7	5107779	2	WASHER, 3/4 X 14GA, MACH, CZ
8	5107356	4	CORD, RUBBER
9	-----	2	RUBBER BAND -(Not a serviceable part.)
10	5419091AD	1	PLATE, FRONT END TORSION C - ORG
11	5106786	6	BOLT, 1/2-13 X 1-1/4, FLANGE, CZ
12	5106787	6	NUT, 1/2-13 SERRATED FLANGE, CZ
13	5106788	2	GROMMET, RUBBER
14	5418580A	1	WELD, MOTOR BOX, Z3 - BLK
15	5107390	2	SPACER, MOTOR BOX 10GA
16	5107547A	1	WELD, Z3 FRONT CHASSIS - BLK
17	5107383A	1	BRACKET, BOTTOM CHASSIS LEFT - BLK
18	5107382A	1	BRACKET, BOTTOM CHASSIS RIGHT - BLK
19	-----	1	PLATE, TIE DOWN RH - BLK
20	-----	1	PLATE TIE DOWN LH - BLK
21	5025390X10	10	BOLT, 3/8-16 X 1-1/4, FLANGE, GD 5, CZ
22	5419301A	1	PLATE, TOE KICK, FB3000 - BLK
23	5106898	4	SCREW, 5/16-18 X 1/2, SLF TPNG, CZ
24	5107206	4	BUMPER, RUBBER, 5/16-18
25	5025127	4	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
26	5418525A	1	WELD, PLATFORM, BLWR - BLK
27	5025056	1	NUT, 1/2-13 HEX NYLON LOCK
28	5025646	1	NUT, NTE, 1/2-13, CZ
29	5106881	28	BOLT, 3/8-16 X 3/4, FLANGE, CZ
30	5107561A	1	WELD, Z3 REAR CHASSIS - BLK
31	5025666	38	NUT, 3/8-16, FLANGE, SERRATED UNDER HEAD
32	5107387A	2	WELD, TRANS 90 DEG MOUNT BRACKET - BLK
33	5107384A	1	PLATE, SKID - BLK
34	5107385A	1	GUARD, LOWER DEBRIS - BLK
35	5107386A	1	GUARD, FORWARD DEBRIS - BLK
36	5106872	2	BOLT, 1/4-20 X 3/4, FLANGE, CZ
37	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
38	5419192A	1	PLATE, BATTERY DOOR - BLK
39	5107350	1	WASHER, INT / EXT TOOTH, CZ
40	5106913	1	KNOB, 1/4-20 X 1/2 CAP SCREW
41	5418591A	1	WELD TRANS I-BEAM, Z3000 - BLK
42	5418642AD	1	WELD, BLOWER HOUSING , Z3 - ORG



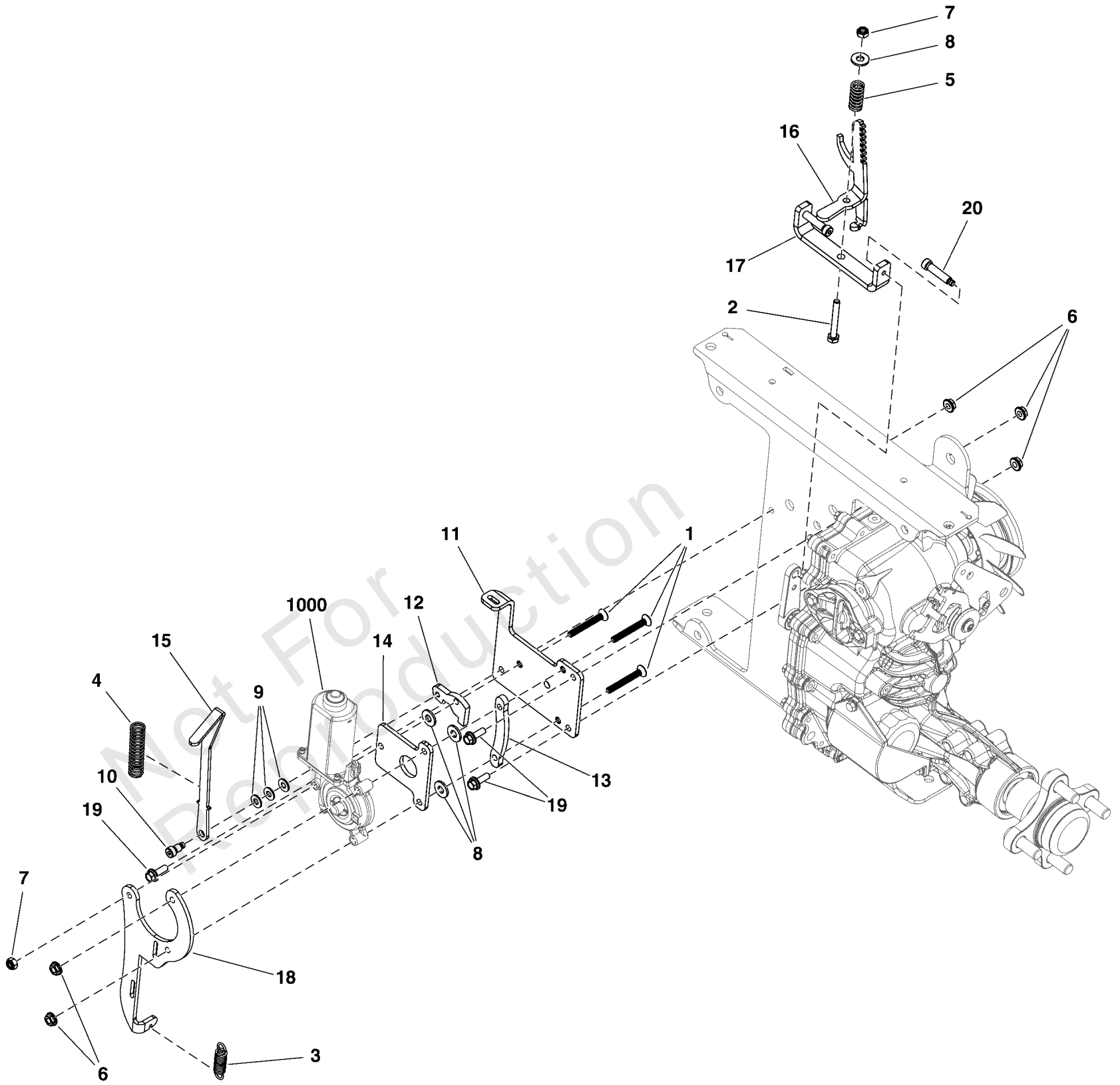
Motion Control Group

REF NO	PART NO	QTY	DESCRIPTION
1	5106940FS	2	GRIP
2	5025203X12	2	PIN, COTTER, 1/8 X 1 1/2, CZ
3	5107351FS	2	PIN, COTTER
4	5107368FS	2	CONTROL, HANDLE
5	5106892FS	4	NUT
6	5022044SM	2	PIN, CLEVIS, 1/2 X 2-
7	5106943FS	8	BUSHING
8	5107369FS	1	BRACKET, Control
9	5107367FS	1	BRACKET
10	5025456FS	2	PIN, CLEVIS
11	7090095FS	2	NUT, 1/4
12	5107108FS	2	ROD
13	5106858FS	2	NUT
14	5106971FS	2	TUBE, CONNECTING
15	5107303FS	2	ROD
16	5106802FS	2	JOINT, BALL
17	5107241FS	2	ARM, CONTROL
18	5025145X6SM	2	BOLT, 5/16-18 X 3/4",
19	5106881FS	2	BOLT
20	5025127SM	6	NUT, 5/16-18 HEX SERR
21	5100941SM	4	BALL STUD
22	5106969FS	4	CLIP
23	5107193FS	2	DAMPENER
24	5025666FS	2	NUT
25	5106803FS	2	JOINT, BALL
26	703350	2	WASHER
27	703332	2	WASHER

Parking Brake Group S/N: 4002219158 and Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901807-Z3000



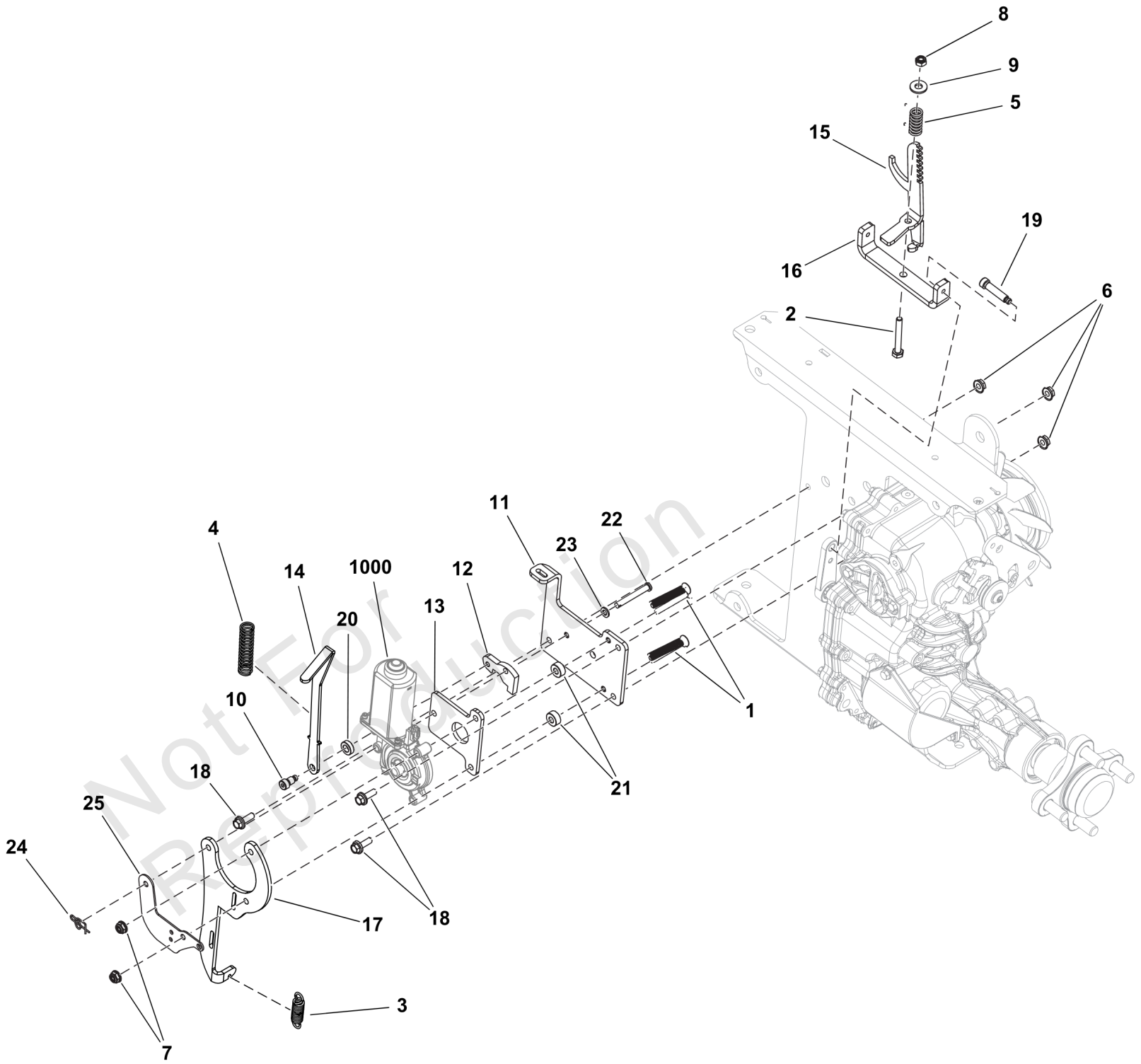
Parking Brake Group S/N: 4002219158 and Below

REF NO	PART NO	QTY	DESCRIPTION
1	5106908	3	SCREW, 1/4-20 X 2, PHLPS, SS
2	5025010X16	1	BOLT, 1/4-20 X 2", GD5
3	5106888	1	SPRING, EXTENSION, #29
4	5106910	1	SPRING, COMPRESSION, #29
5	5106911	1	SPRING, COMPRESSION, #21
6	5025126	5	NUT, 1/4-20 HEX SERR. FLANGE
7	5025095	2	NUT, 1/4-20 HEX NYLON LOCK
8	5106815	4	WASHER, 1/4 SAE, CZ
9	5025154	3	WASHER, 1/4 SAE
10	5106912	1	BOLT, 5/16 X 1/2, SHLDR, SS
11	5107321	1	PLATE, BRAKE BACKING
12	5107322	1	PLATE, BRAKE CAM, CZ
13	5107323AA	1	PLATE, BRAKE SPACER - BLK
14	5107324	1	PLATE, CAM COVER, CZ
15	5107328	1	PLATE, BRAKE RELEASE LEVER,CZ
16	5107325	1	WELD, BRAKE GEAR RACK,CZ
17	5110201FS	1	ARM, Lever
18	5107327	1	PLATE, SWITCH MOUNT, CZ
19	5106872	3	BOLT, 1/4-20 X 3/4, FLANGE, CZ
20	5106941	2	BOLT, 5/16 X 1-1/4, SHLDR, SS
1000	-----	0	Refer to: Electrical Group

Parking Brake Group S/N: 4002219159 and above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901807-Z3000



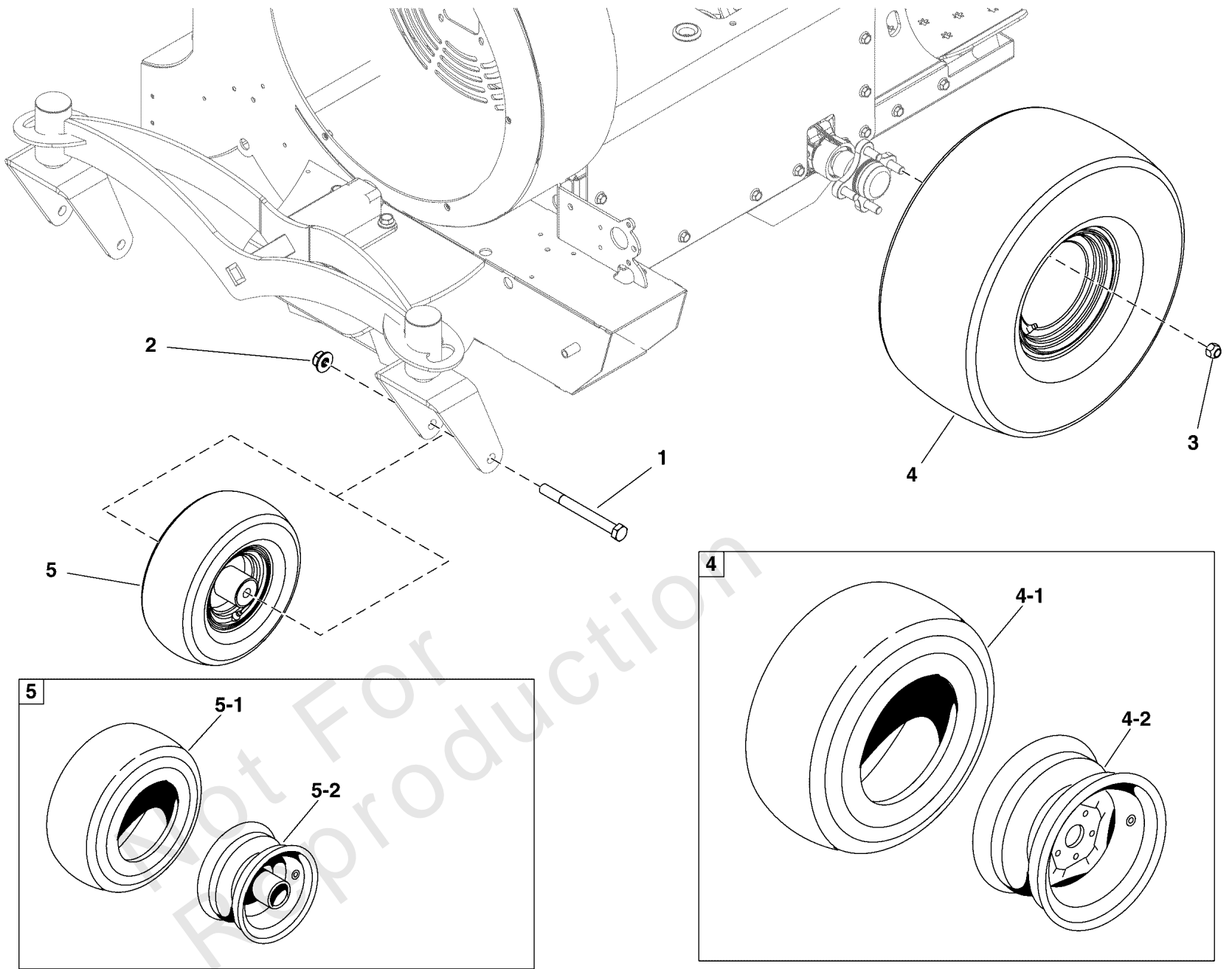
Parking Brake Group S/N: 4002219159 and above

REF NO	PART NO	QTY	DESCRIPTION
1	5106908FS	2	SCREW
2	5025010X16FS	1	BOLT
3	5106888FS	1	SPRING, EXTENSION
4	5106910FS	1	SPRING, Compression
5	5106911FS	1	SPRING, COMPRESSION
6	5025126FS	3	NUT
7	5025391FS	2	NUT
8	5025095SM	1	NUT, 1/4-20 HEX NYLON
9	5106815FS	1	WASHER
10	5106912FS	1	BOLT
11	5107321FS	1	PLATE
12	5107322FS	1	PLATE
13	5107324FS	1	PLATE
14	5107328FS	1	PLATE
15	5107325FS	1	BRACKET, BRAKE
16	5110201FS	1	ARM, Lever
17	5107327FS	1	PLATE, SWITCH
18	5106872FS	3	BOLT
19	5106941FS	2	BOLT
20	84008621	1	SPACER
21	84008622	2	SPACER
22	84008623	1	PIN, Clevis
23	84008624	1	WASHER, Flat
24	703355	1	COTTER PIN, 3/8
25	84008625	1	PLATE, Switch
1000	----	0	Refer to: Electrical Group

Wheel and Tire Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901807-Z3000



Wheel and Tire Group

REF NO	PART NO	QTY	DESCRIPTION
1	5107289	2	BOLT, 5/8-11 X 8-1/2, CZ
2	5025403	2	NUT, 5/8-11 HEX NYLOCK FLANGE
3	5020601	8	NUT, 1/2-20, FOR WHEEL BOLT SILVER
4	5107875	2	TIRE/WHEEL ASM, 22 X 11.00-10, TURF
4-1	5107875X1	2	TIRE, 22-11.00 X 10, 4-PLY (TIRE ONLY) -(One per tire)
4-2	5107875X2	2	WHEEL, 10 X 7 4 ON 4BC, 2.84 PILOT -(One per tire)
5	5107876	2	TIRE ASSEMBLY, 13 X 6.50 - 6
5-1	5107876X1	2	TIRE, 13/650 X 6 4-PLY SMOOTH, TIRE ONLY -(One per tire)
5-2	-----	2	WHEEL, RIM -(Not available for sale. Refer to Complete Tire Assembly)
5-3	5107876X3	2	2 ROLLER BEARINGS, SPANNER, 2 BUSHINGS -(One per tire)

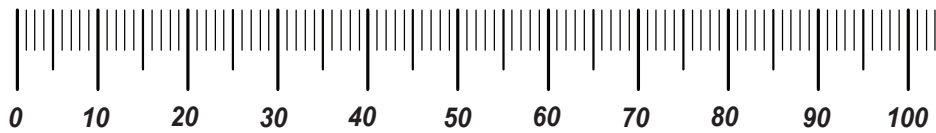
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Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	5.6		8.8		10.9		12.9	
	Class 5.6		Class 8.8		Class 10.9		Class 12.9	
Size Of Hardware	in/lbs	Nm.	in/lbs	Nm.	in/lbs	Nm.	in/lbs	Nm.
	ft/lbs		ft/lbs		ft/lbs		ft/lbs	
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

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	No Marks		SAE Grade 5		SAE Grade 8	
	SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	in/lbs	Nm.	in/lbs	Nm.	in/lbs	Nm.
	ft/lbs		ft/lbs		ft/lbs	
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

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



Nut, M8

Thread Diameter (mm)

Inside Diameter (in) Threads per inch

Nut, 1/2-16

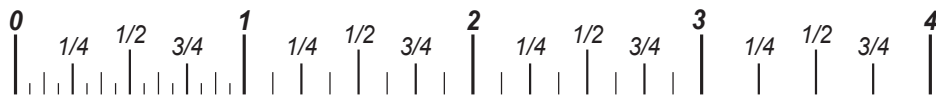


Screw, M8- 1.25 x 25

Thread Diameter (mm) Distance between threads (mm) Body Length (mm)

Body Diameter Threads per inch Body Length (in)

Screw, 1/2- 16 x 2



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).

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

Hex Head Capscrew



Washer



Carriage Bolt



Hex Nut

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

