



Parts Manual

Mfg. No: 5900965
SW20KAV1636, 36" Walk Behind Mower

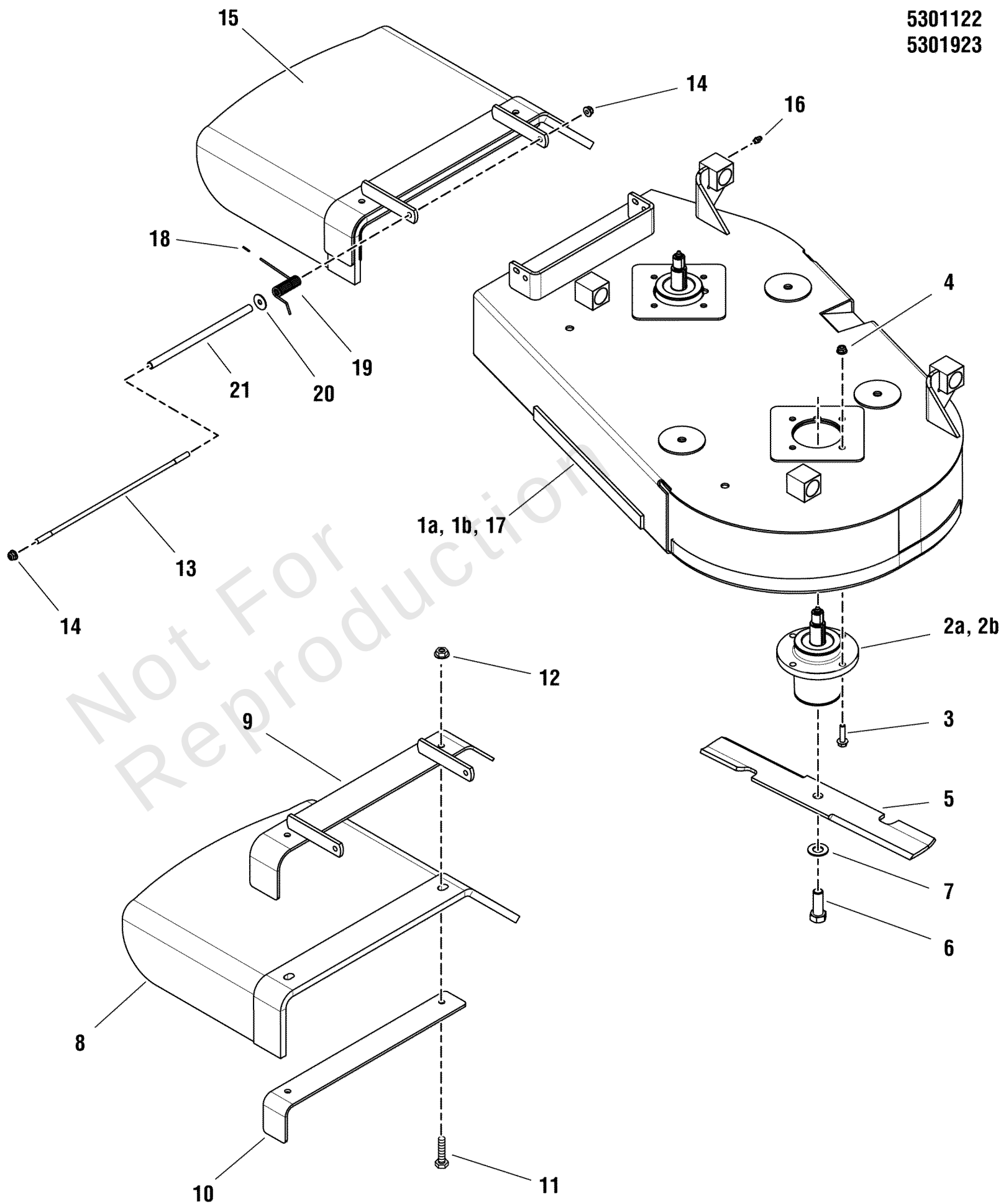
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36" Mower Deck - Housing, Covers, Spindles & Blades (Side Discharge)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

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36" Mower Deck - Housing, Covers, Spindles & Blades (Side Discharge)

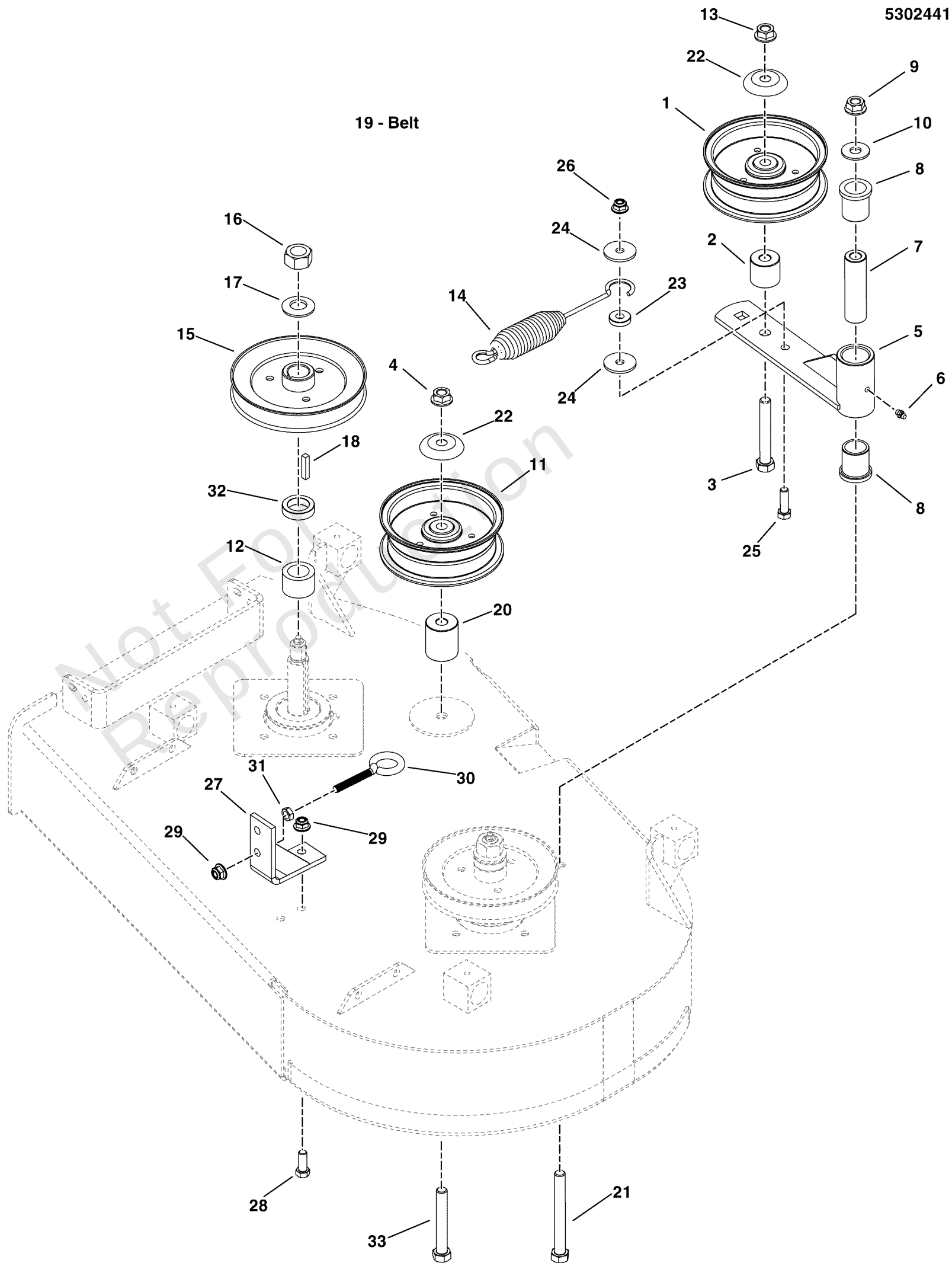
REF NO	PART NO	QTY	DESCRIPTION
1a	5600489	1	DECK SHELL W/ DECALS -(Kawasaki FS Engines)
1b	5600171	1	DECK SHELL W/ DECALS -(Kawasaki FH Engines)
2a	5061096	2	SPINDLE ASSM, ALUMINUM, LONG SHAFT -(Kawasaki FS Engines)
2b	5061095	2	ASSM, SPINDLE, LOW PROFILE -(Kawasaki FH Engines)(Nut and Washer sold seperately)
3	5023156	8	BOLT, 5/16-18 X 1 1/4 FLANGE
4	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE
5	5021227X2	1	BLADE, 18 -(SET OF TWO)
6	5025320X14	2	BOLT, 5/8-11 X 1-3/4" GD8
7	5025477	2	WASHER, 5/8" GRADE 8, YZ
8	5402404	1	CHUTE, DISCHARGE, RUBBER, BENT (SV)
9	5413404A	1	WELD, MOUNT, DISCHARGE CHUTE - BLK
10	5402362A	1	SUPPORT,DISCHARGE CHUTE - BLK
11	5025013X12	2	BOLT, 3/8-16 X 1-1/2" GD5 CZ
12	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
13	5042555	1	ROD, BRAKE LINKAGE
14	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
15	5600132	1	KIT, DISCHARGE CHUTE, 44/48/52 -(Includes Ref. Nos 8 - 10)(SV)
16	5020095	4	GREASE FITTING, 1/4-28 STRAIGHT
17	5600367	1	DECK SHELL W/ DECALS, 36" SW20CE -(CE Models - Kawasaki FH Engines)
18	5023489	1	CAP, PROTECTOR, .120 ID -(Export Models)
19	5023385	1	SPRING, TORSION -(Export Models)
20	5025164	1	WASHER, 5/16 FENDER -(Export Models)
21	5061598	1	SPACER, TORSION SPRING,9.63 LG -(Export Models)

36" Mower Deck - Pulleys, Belt & Idler Arm (Kawasaki FS Engines)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

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36" Mower Deck - Pulleys, Belt & Idler Arm (Kawasaki FS Engines)

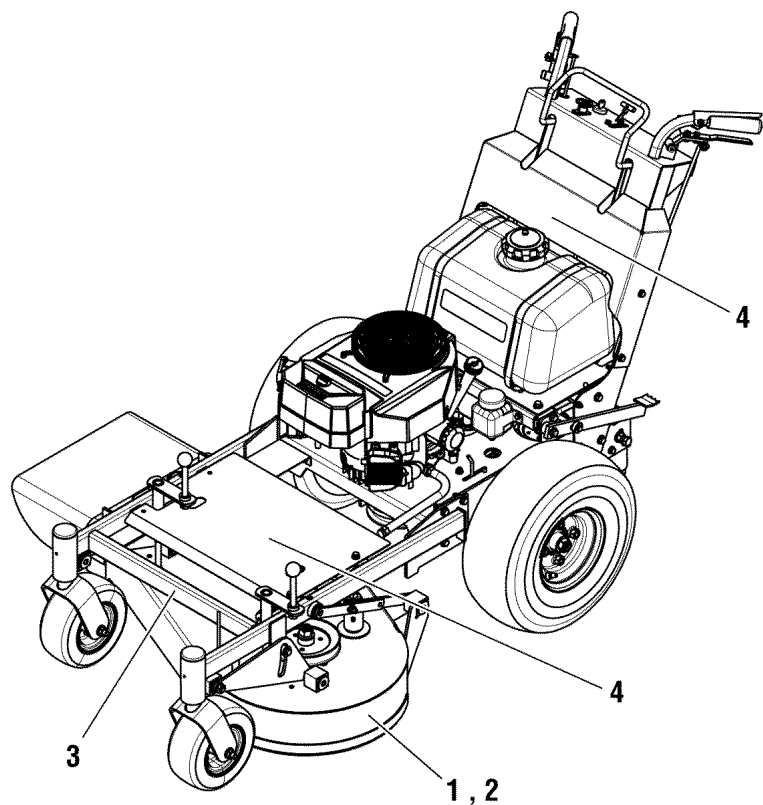
REF NO	PART NO	QTY	DESCRIPTION
1	5101312	1	PULLEY, IDLER, 5.00 WIDE W/ .51 BORE
2	5102543	1	SPACER, .52 X 1.38 X 1.25, CZ
3	5025017X24	1	BOLT, 1/2-13 X 3" GD5 CZ
4	5025396	1	NUT, Hex Flange, Nylock, 1/2-13
5	5403424D	1	WELD, IDLER ARM SHORT - RED
6	5020095	1	GREASE FITTING, 1/4-28 STRAIGHT
7	5045022	1	SPACER, .52 X 1.00 X 3.50
8	5021541	2	BUSHING, FLANGE
9	5025056	1	NUT, 1/2-13 HEX NYLON LOCK
10	5025150	1	WASHER, 1/2 USS
11	5101312	1	PULLEY, IDLER, 5.00 WIDE W/ .51 BORE
12	5101306	1	SPACER, 1.00 X 1.50 X 1.00 CZ
13	5025396	1	NUT, Hex Flange, Nylock, 1/2-13
14	5100632	1	SPRING, EXTENSION, SWIVEL. LONG HOOK
15	5023178	2	PULLEY-6.122 OD X .98 BORE
16	5025405	2	NUT, 3/4-16 HEX
17	5025406	2	WASHER, 3/4 BELLEVILLE
18	5050407X10	2	KEY, 1/4 SQ X 1-1/4
19	5020871	1	BELT, BP-SEC, 87.99EL, ARAMID, WRPD
20	5102409	1	SPACER. .52 X 1.50 X 1.75, CZ
21	5025017X36	1	BOLT, 1/2-13 X 4-1/2 GD5 YZ
22	5101103	2	SHIELD, PULLEY BEARING
23	5044960	1	SPACER, .39 X 1.00 X .25
24	5100548	2	WASHER, .390 X 1.50 X .109, YZ
25	5025013X10	1	BOLT, 3/8-16 X 1-1/4" GD5 CZ
26	5025394	1	NUT, 3/8-16 HEX NYLOCK FLANGE
27	5403902D	1	WELD, ANCHOR EYEBOLT - RED
28	5025013X8	2	BOLT, 3/8-16 X 1" GD5 CZ
29	5025394	3	NUT, 3/8-16 HEX NYLOCK FLANGE
30	5023497	1	EYE BOLT, 3/8-16 X 5, 2.88THRD, 1EYE, CZ
31	5025084	1	NUT, 3/8-16 HEX JAM
32	5042133	1	SPACER, 1.01 X 1.50 X .37, CZ
33	5025017X28	1	BOLT, 1/2-13 X 3-1/2, HEX HD, GD5, CZ (SV)

Decal Group - Brand & Model (S/N: 2016499706 & Below)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

5301080



1 — 36"

2 — 48"

3 — **SW 20**

4 — **SNAPPER PRO**™

Decal Group - Brand & Model (S/N: 2016499706 & Below)

REF NO	PART NO	QTY	DESCRIPTION
1	5101322	1	DECAL, 36" -(36" Models Only)
2	5022811	1	DECAL, 48 -(48" Models Only)
3	5101320	1	DECAL, SW20
4	5101200	2	DECAL, SNAPPER PRO

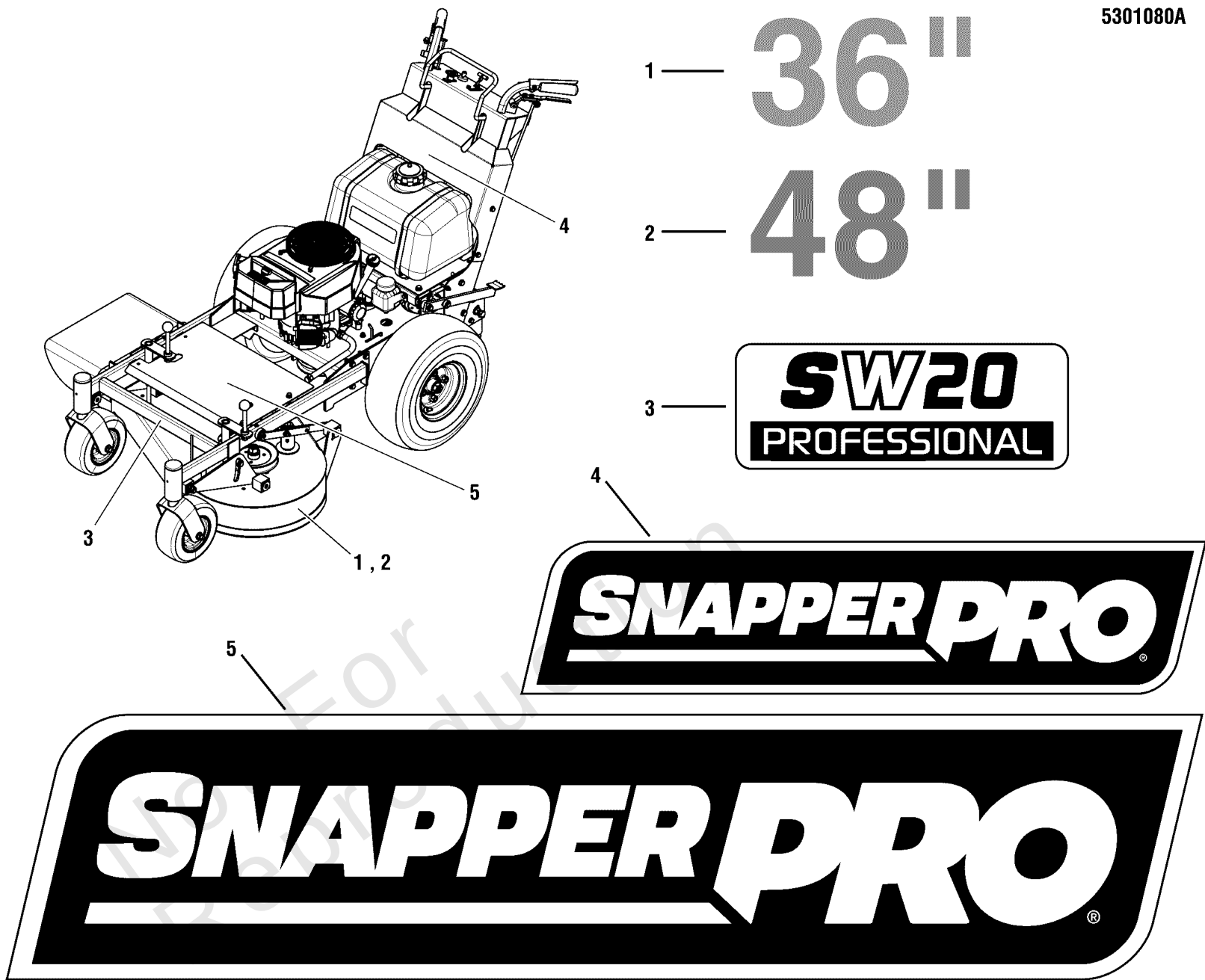
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Decal Group - Brand & Model (S/N: 2016499707 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

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Decal Group - Brand & Model (S/N: 2016499707 & Above)

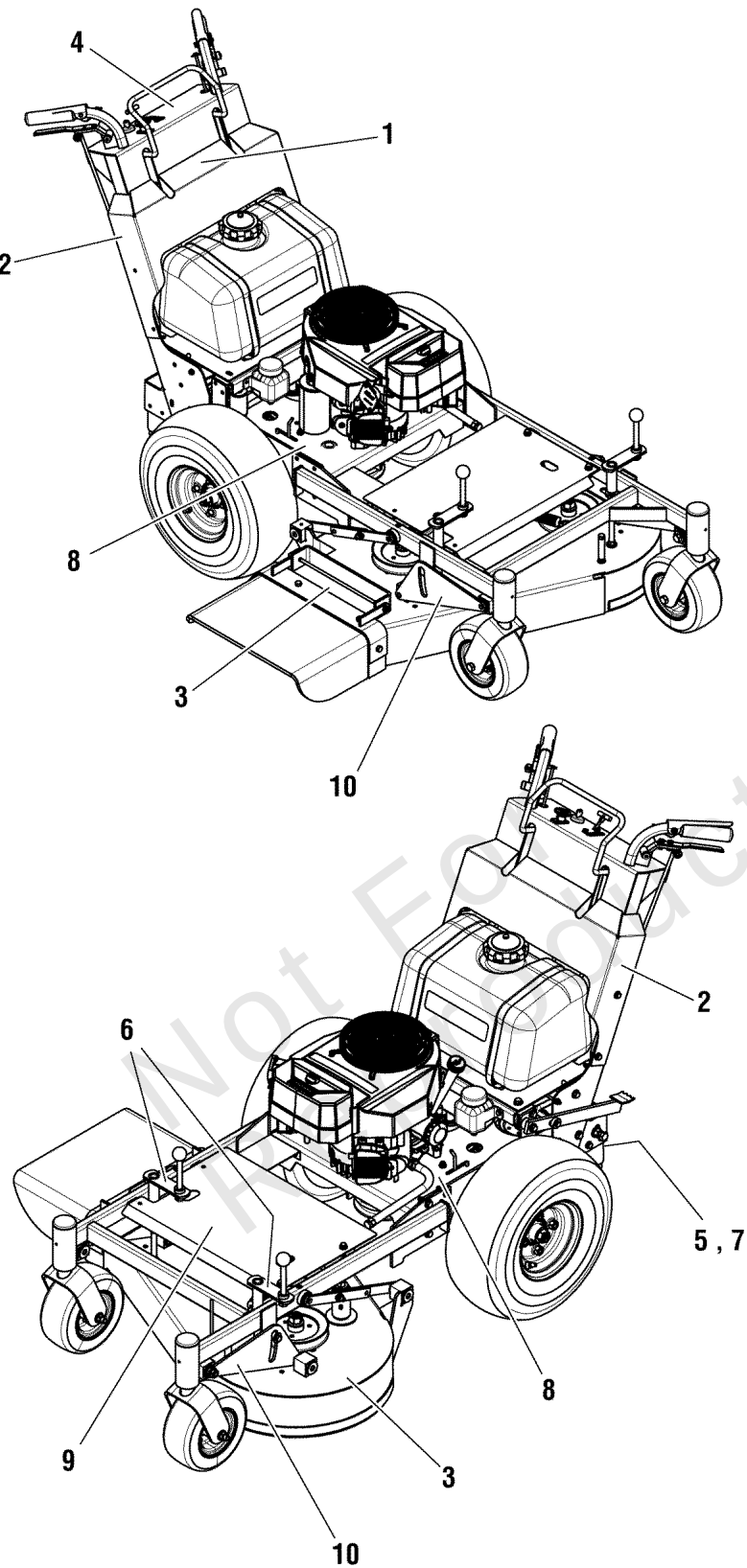
REF NO	PART NO	QTY	DESCRIPTION
1	5101322	1	DECAL, 36" -(36" Models Only)
2	5022811	1	DECAL, 48 -(48" Models Only)
3	5104021	1	DECAL, SW20 (2014)
4	5104023	1	DECAL, SNAPPER PRO LOGO, SMALL
5	5104025	1	DECAL, SNAPPER PRO LOGO, LARGE

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Decal Group - Safety & Operation

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965



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The operator's manual is available in Spanish.
La manual del operador está disponible en Español.

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1

⚠ WARNING

Avoid serious injury or death

- Read operator's manual before using this product.
- Go across slopes, NOT up and down.
- Look down and behind before and while backing.
- Stop the mower when children or others are near.
- Remove objects that could be thrown by the blade.

- Keep safety devices (guards, shields, switches, etc.) in place and working.
- Do NOT operate this machine unless you are trained.
- Know the location and function of all controls.
- Avoid steep slopes. Reduce speed and use extreme caution on slopes.

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2

⚠ WARNING

Fire Hazard

Gasoline is flammable. Debris is combustible.

- Allow engine to cool for at least 3 minutes before refueling.
- Keep unit cleaned of debris.
- This equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. Contact local fire agencies for regulations relating to fire prevention requirements.

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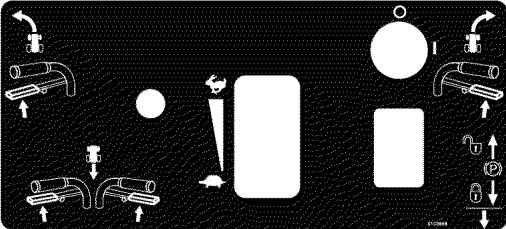
⚠ DANGER

Amputation and thrown objects hazard

- Keep hands and feet away from deck.
- Do not operate mower unless discharge chute or entire grass catcher is in its proper place.

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⚠ WARNING

Amputation and Pinch Point Hazard

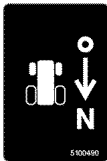
To avoid injury from rotating parts, stay clear of parts and keep all shields and guards in place.

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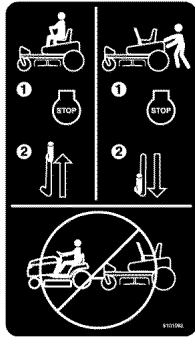
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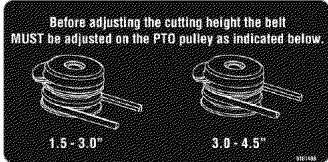


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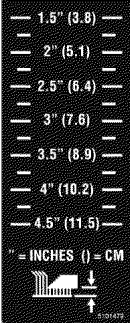
Before adjusting the cutting height the belt MUST be adjusted on the PTO pulley as indicated below.



1.5 - 3.0" 3.0 - 4.5"

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1.5" (3.8)
2" (5.1)
2.5" (6.4)
3" (7.6)
3.5" (8.9)
4" (10.2)
4.5" (11.5)

" = INCHES () = CM

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Decal Group - Safety & Operation

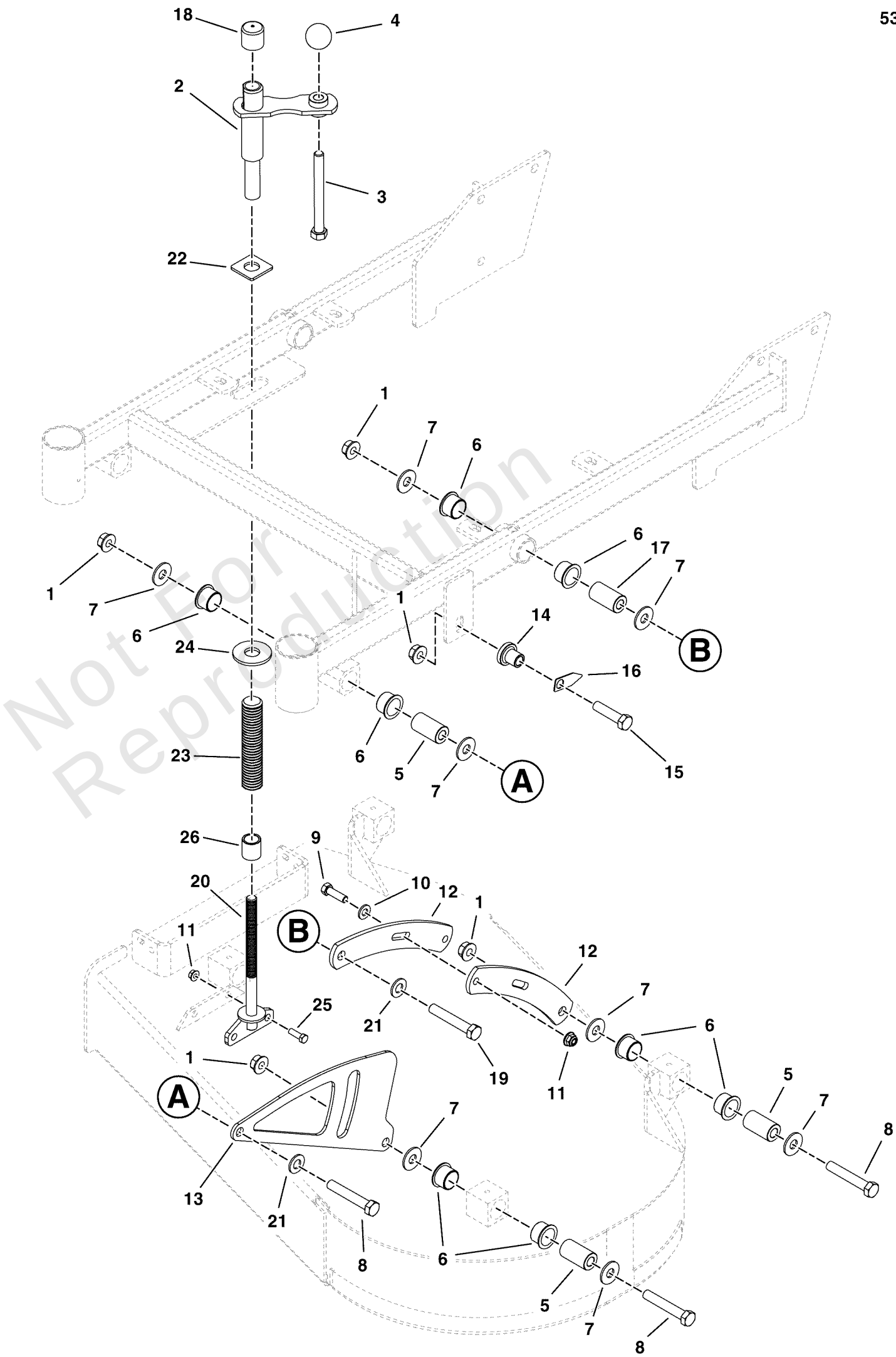
REF NO	PART NO	QTY	DESCRIPTION
1	5103601	1	DECAL, WARNING, WALKS
2	5103665	1	DECAL, FIRE HARARD, 3.25W X 3.0H
3	7101665	2	DECAL, DANGER DO NOT OPERATE W/O DEFLECT
4	5103668	1	DECAL, CONROL PANEL, WB
5	5103184	2	DECAL, WARNING, HAND IN BELT, ENG ONLY
6	5101291	2	DECAL, CUT HEIGHT, SPDD
7	5100490	1	DECAL, PEDAL
8	5101991	2	DECAL, TRANSAXLE RELEASE
9	5101468	1	DECAL, BELT LOCATION, PTO, SW20
10	5101479	2	DECAL, CUT HEIGHT, SW-20
11	5103619	1	DECAL, MANUAL AVAIL IN SPANISH

Deck Lift Group (Kawasaki FS Engines)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

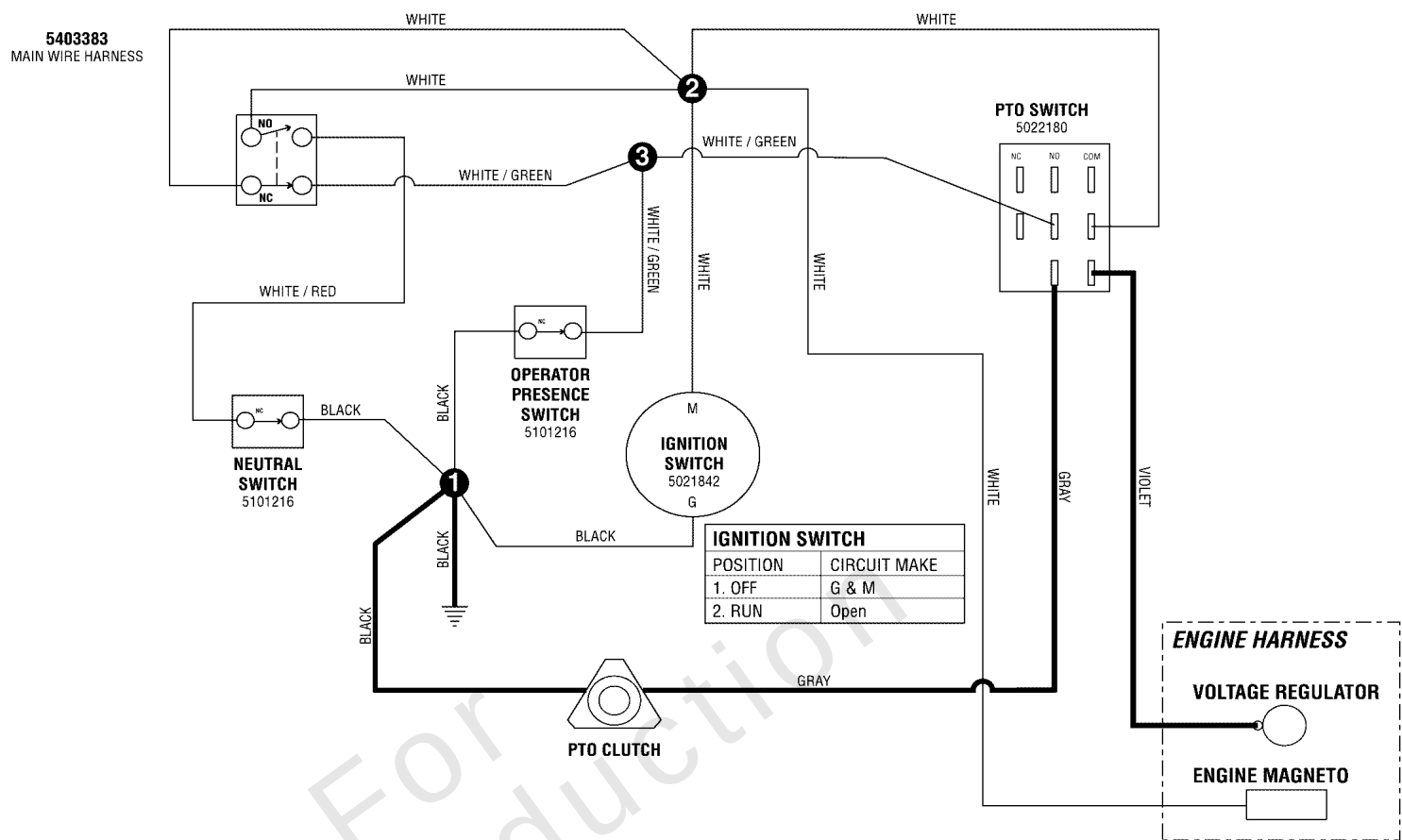
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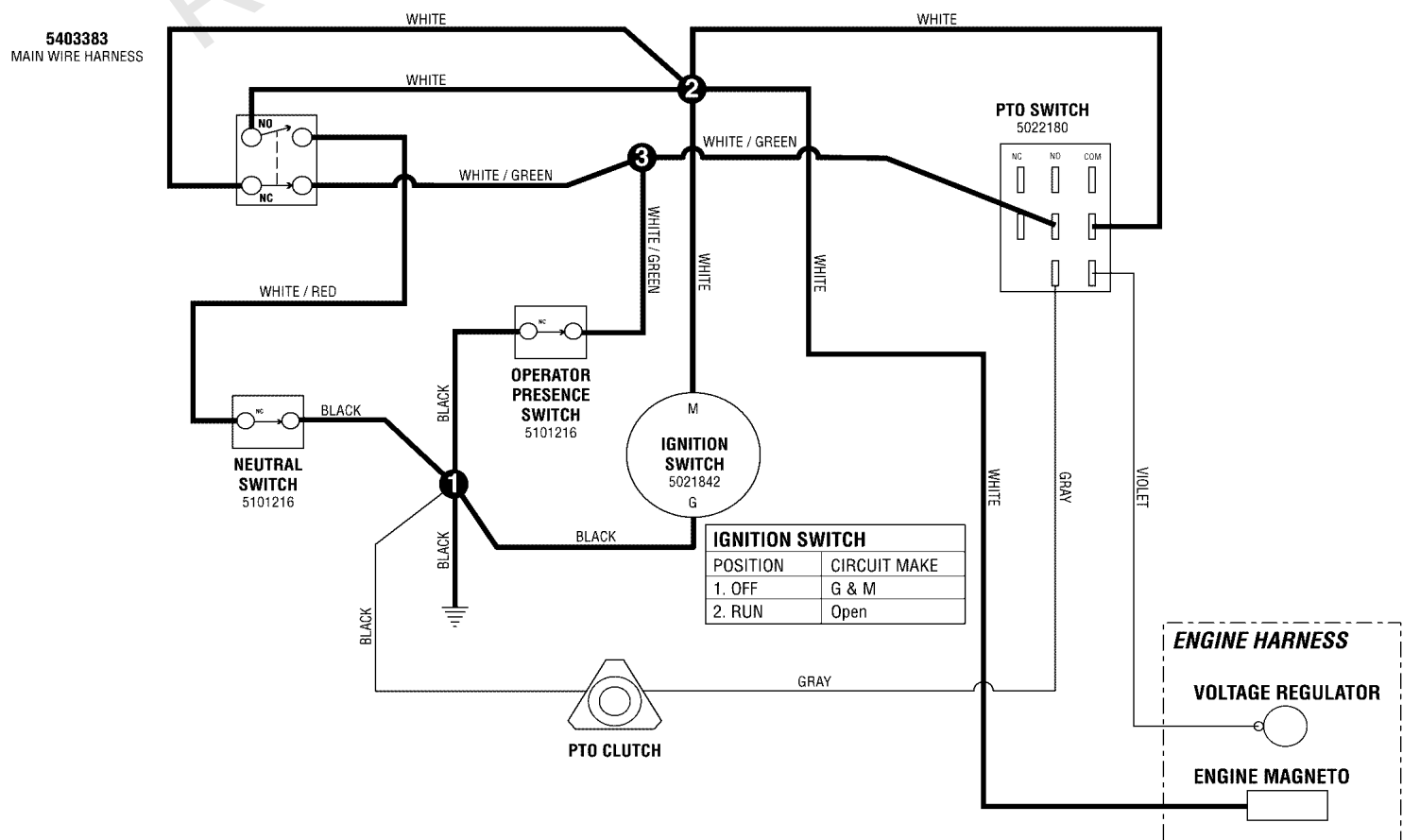
Deck Lift Group (Kawasaki FS Engines)

REF NO	PART NO	QTY	DESCRIPTION
1	5025396	12	NUT, Hex Flange, Nylock, 1/2-13
2	5102774A	2	DECK CRANK, SW30 - BLK
3	5025017X40	2	BOLT-1/2-13 X 5 GD5 YZ
4	5021733	2	KNOB, PLASTIC, 1/2-13
5	5101413	6	SPACER, .52 X 1.00 X 1.83, CZ
6	5023356	16	BUSHING, 1.00X1.13X.75, PLA
7	5025150	16	WASHER, 1/2 USS
8	5025017X24	6	BOLT, 1/2-13 X 3" GD5 CZ
9	5025013X10	4	BOLT, 3/8-16 X 1-1/4" GD5 CZ
10	5025293	4	WASHER, 3/8 GD.9 FLAT
11	5025394	8	NUT, 3/8-16 HEX NYLOCK FLANGE
12	5407433D	4	BAR, DECK LIFT - ADJ
13	5405594D	2	PLATE, DECK HEIGHT INDICATOR - SNP RED
14	5102136	2	SPACER, .52 X .75 X 1.06 SHLDR, CZ
15	5025017X16	2	BOLT, 1/2-13 X 2" GD5 CZ
16	5102143	2	POINTER, DECK HEIGHT, SW30
17	5043366	2	SPACER, .50 X 1.00 X 2.25
18	5102086	2	CAP, VINYL, 1.062 X 1.00 BLK
19	5025017X28	2	BOLT, 1/2-13 X 3-1/2, HEX HD, GD5, CZ (SV)
20	5101485	2	ROD, DECK LIFT, SW30-52-61
21	5025158	4	WASHER, 1/2 SAE
22	5102751	2	WASHER, SQ, .823ID, X 1.63SQ X .14TH, CZ
23	5102085	2	SPRING, COMP, .840 X 1.044 X 6.7, BLK
24	5025183	2	WASHER, 3/4 USS
25	5025013X8	4	BOLT, 3/8-16 X 1" GD5 CZ
26	5102946	2	SPACER, .64 X .82 X .88, CZ

PTO CIRCUIT



IGNITION / OPERATOR PRESENCE CIRCUIT

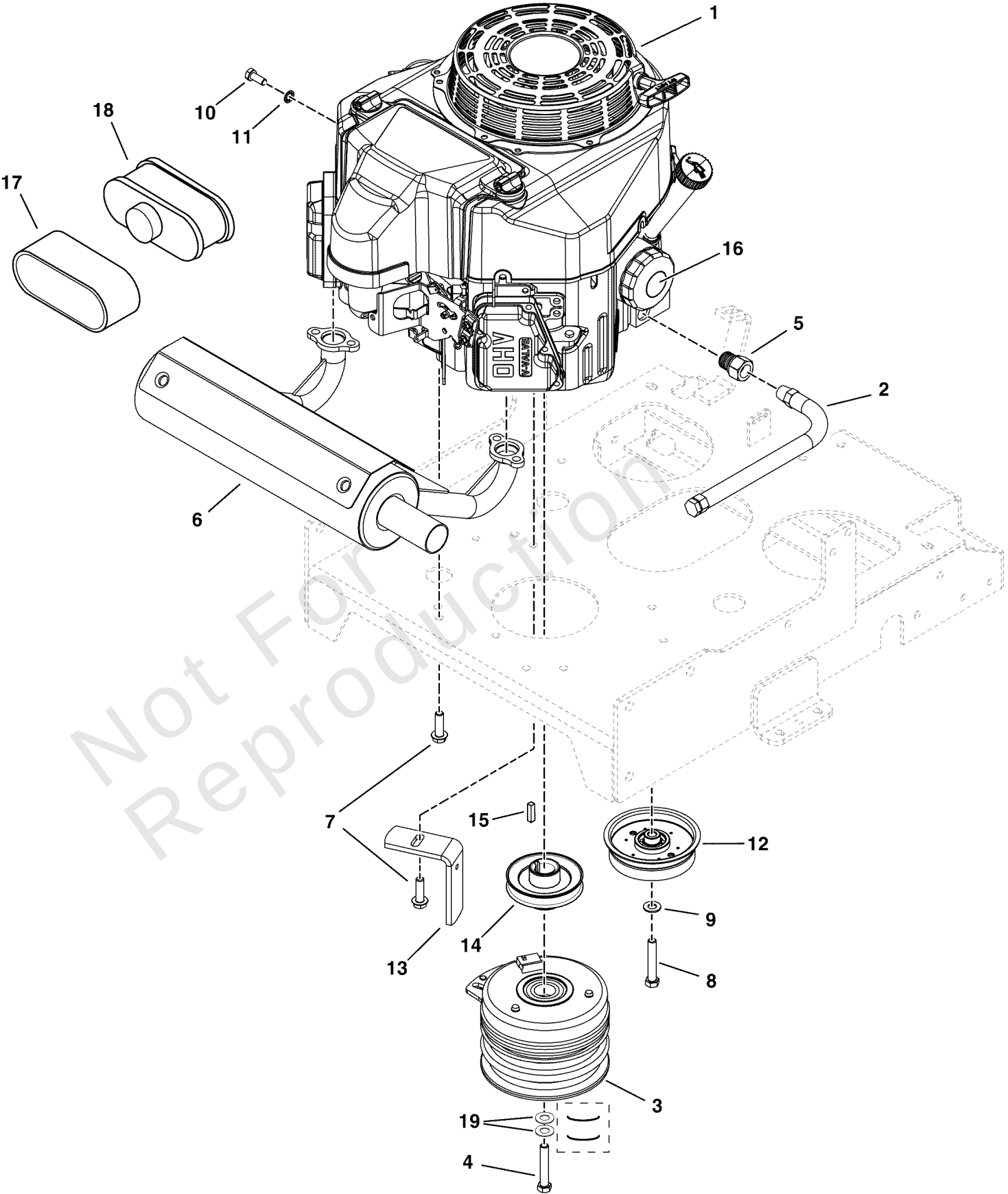


Electrical Schematic - Kawasaki & B&S Models

REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

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Engine & PTO Group - Kawasaki FS Engines

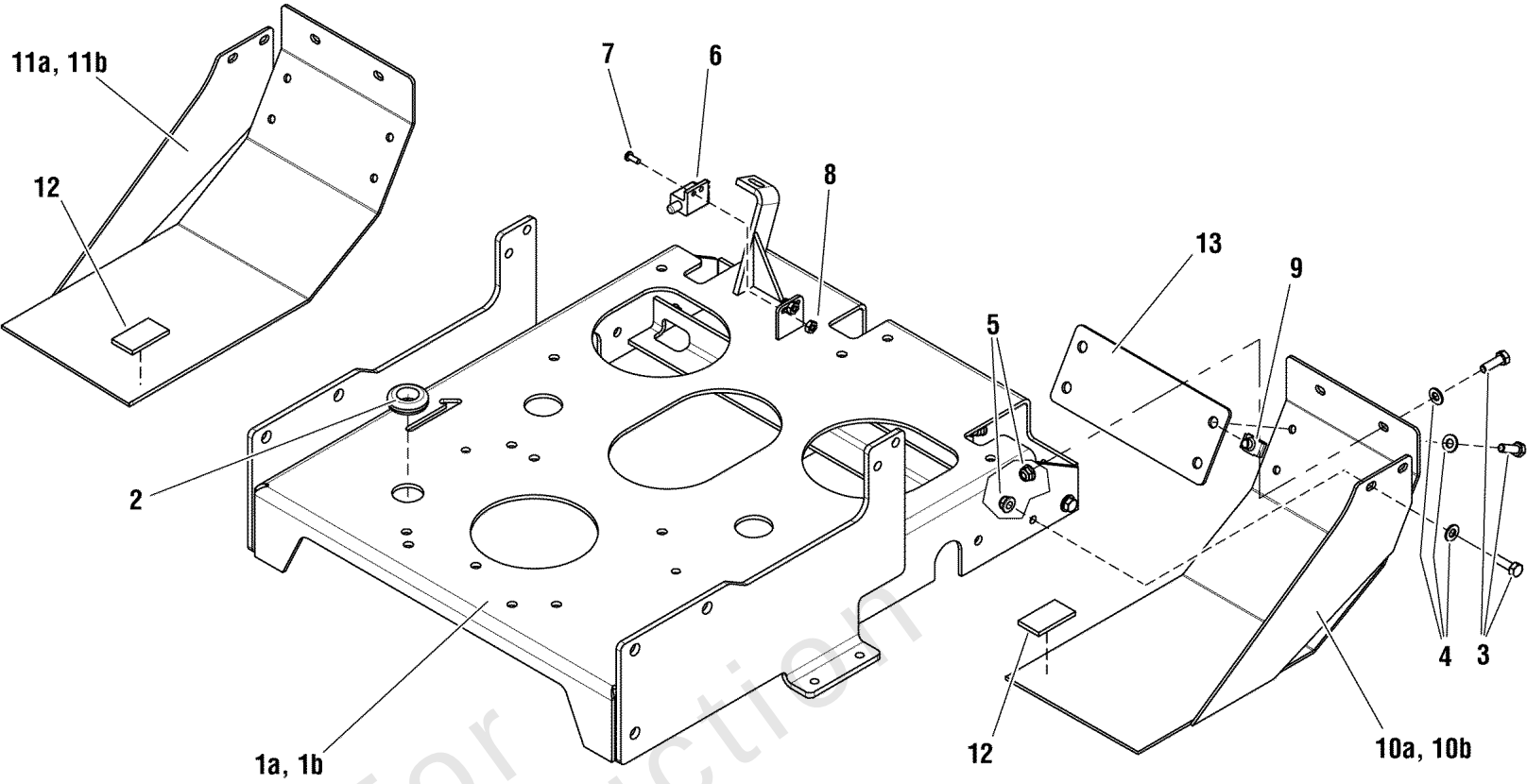
REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	ENGINE, KAWASAKI, MANUAL START, FS SERIES
2	5048681	1	HOSE, OIL DRAIN
3	5102217	1	CLUTCH, WARNER, 125 ft lbs - 1"
4	5102866	1	BOLT, CRANKSHAFT, 7/16-20 X 3, GD8
5	5022234	1	ADAPTER-OIL DRAIN
6	5102765	1	MUFFLER, KAWASAKI, HORIZONTAL
7	5025532	3	BOLT,HEX FLG,SER GD5 3/8-16X1-1/4PACH CZ
8	5025058X16	1	BOLT, 3/8-16 X 2 GD5 TFL
9	5025156	1	WASHER, 3/8 SAE
10	5025249	1	BOLT, M8-1.25 X 20MM GD8.8
11	5025188	1	WASHER, 5/16 INT. TOOTH LOCK
12	5102496	1	PULLEY, IDLER, SINGLE FLANGE, 4" OD
13	5406655D	1	ANCHOR, CLUTCH, SINGLE HOLE - RED
14	5101311	1	PULLEY, CRANKSHAFT, 1.0005 ID X 4.25 OD
15	5050407X8	1	KEY, 1/4 SQ X 1
16	5102278X1	1	FILTER, OIL (SV)
17	5102278X2	1	FILTER, AIR, OUTER (SV)
18	5102278X3	1	FILTER, AIR, INNER (SV)
19	5025585	2	BELLEVILLE WASHER 1.1875 X .442 X .089 -(S/N: 2015745414 & Above)

Engine Deck Group (S/N: 2013700900 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

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Engine Deck Group (S/N: 2013700900 & Above)

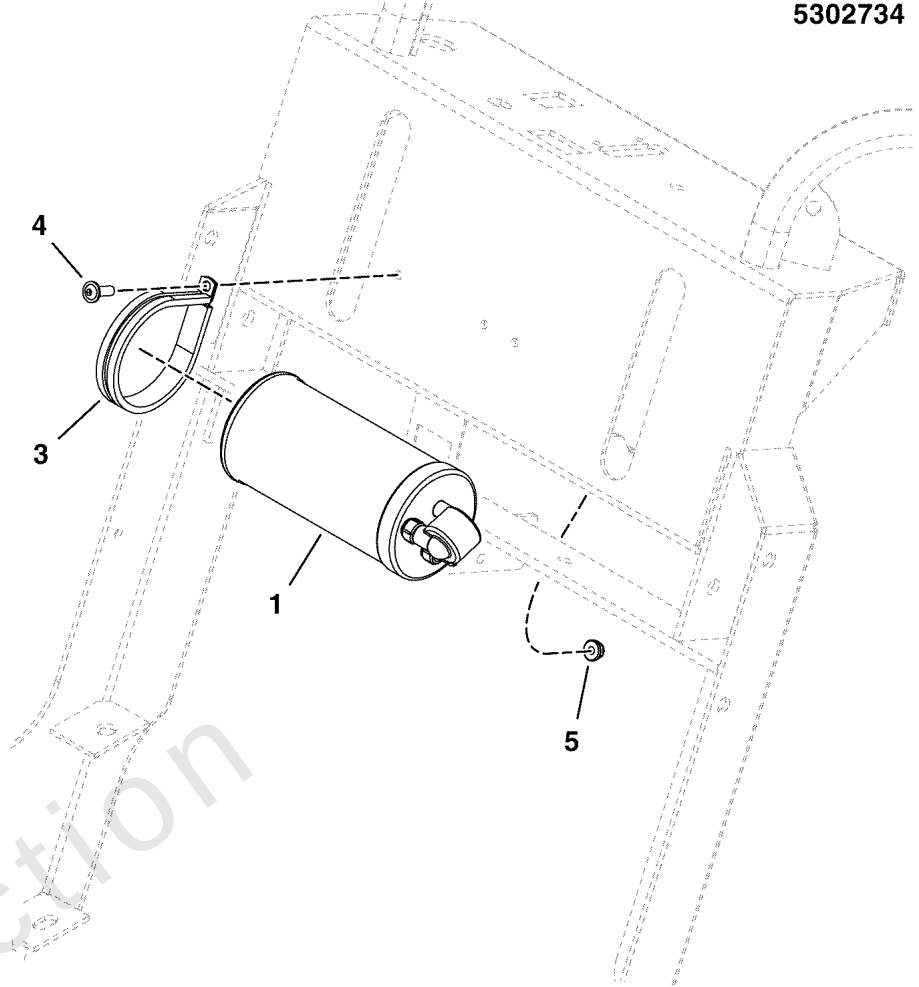
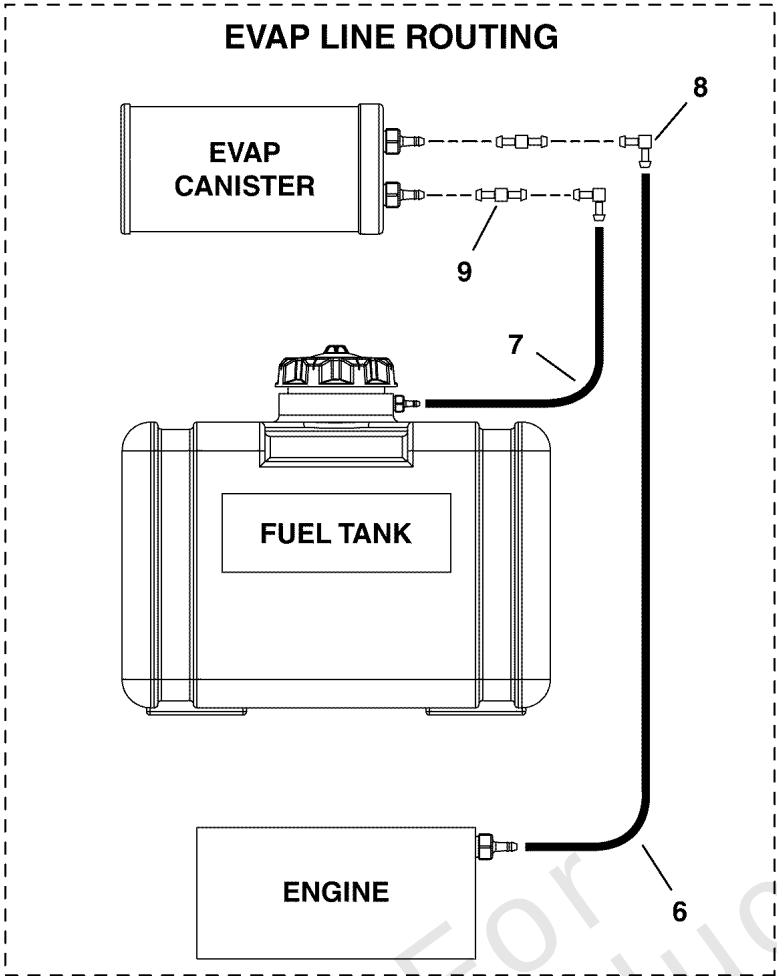
REF NO	PART NO	QTY	DESCRIPTION
1a	5403082D	1	WELD, ENGINE DECK, SNP PRO WB - RED -(FH381, FH541, & 305776 Engine)
1b	5407050D	1	WELD, ENGINE DECK, SW20 - RED -(FS481 & FS541 Engine)
2	5021379	1	GROMMET, 7/8
3	5025011X8	12	BOLT, 5/16-18 X 1 GD5 YZ
4	5025155	12	WASHER, 5/16" SAE
5	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE
6	5021769	1	SWITCH, PLUNGER, N.C.
7	5025179X4	2	SCREW- #10-24 X 1/2 ROUND PHILLIPS
8	5025029	2	NUT, #10-24 HEX
9	5022308	4	BODY CLIP, 5/16-18-7GA MATERIAL
10a	5406223D	1	WELD, SKID PLATE, LH - RED -(Rear Discharge Models Only)
10b	5405324D	1	WELD, SKID PLATE, LH - RED
11a	5406224D	1	WELD, SKID PLATE, RH - RED -(Rear Discharge Models Only)
11b	5405325D	1	WELD, SKID PLATE, RH - RED
12	5101270	2	PAD, RUBBER MOUNT, 1/4 MAT
13	5405361D	1	PLATE, REAR GUARD - RED

EVAP Canister Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

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EVAP Canister Group

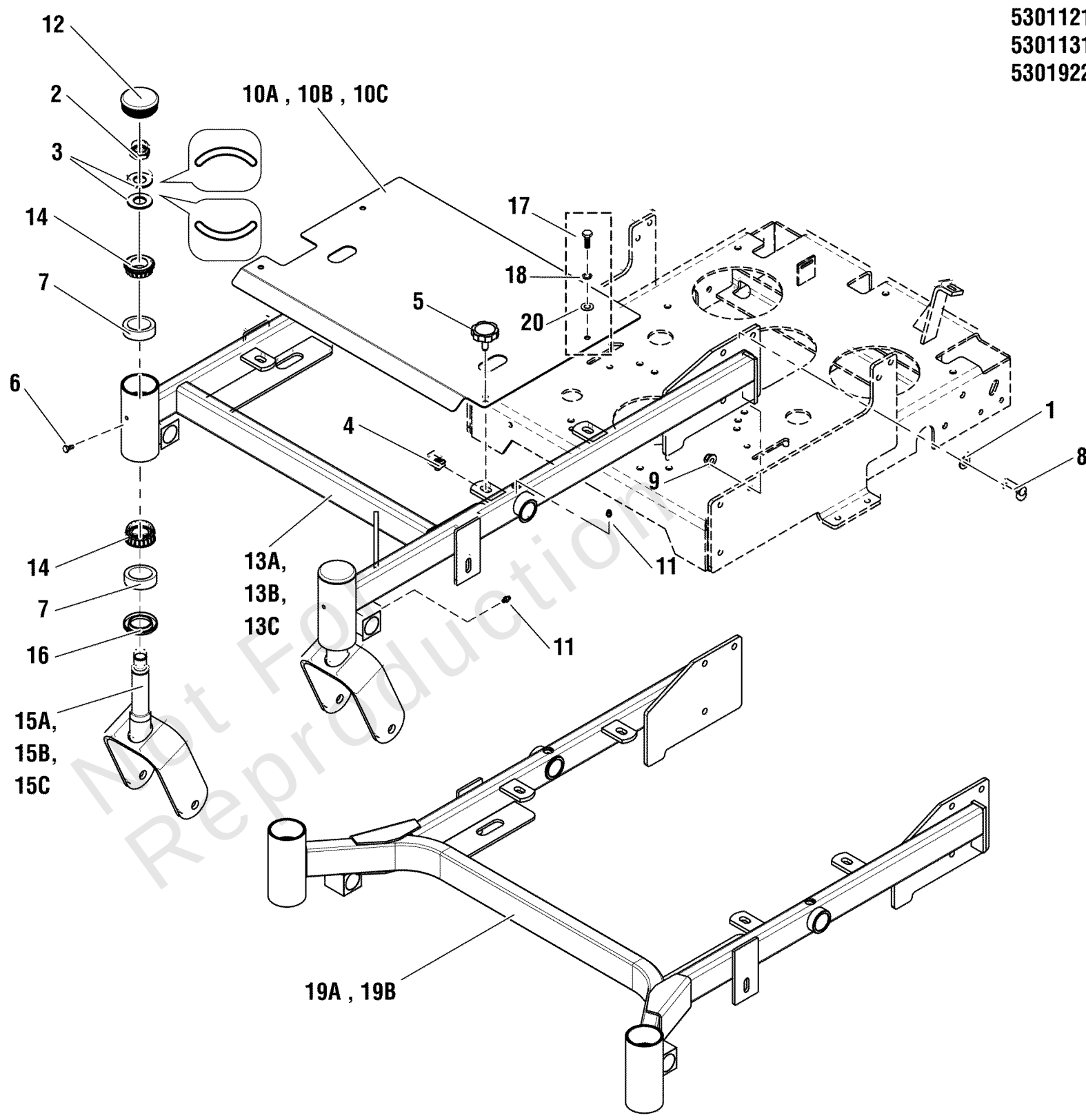
REF NO	PART NO	QTY	DESCRIPTION
1	313036	1	CNSTR, CARB, 6 GAL
2	-----	1	DECAL, EPA CERT, WALKS -(Located on frame near Serial Tag)
3	5103055	2	CLAMP, 3" ID, CUSHIONED, STAINLESS
4	5025299X6	2	USE 5106757 - SCREW,1/4-20X3/4, ZINC
5	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
6	770552X43	1	HOSE, VAPOR, 5MM ID, 43.00 LG
7	7700552X16	1	HOSE, VAPOR, 5MM ID, 16.00 LG
8	5103082	2	FITTING, 90 DEG, 3/16X3/16, SANTOPRENE
9	5103084	2	FITTING, STRAIGHT, 3/16X3/16, PLASTIC

Front Frame Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

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5301131
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Front Frame Group

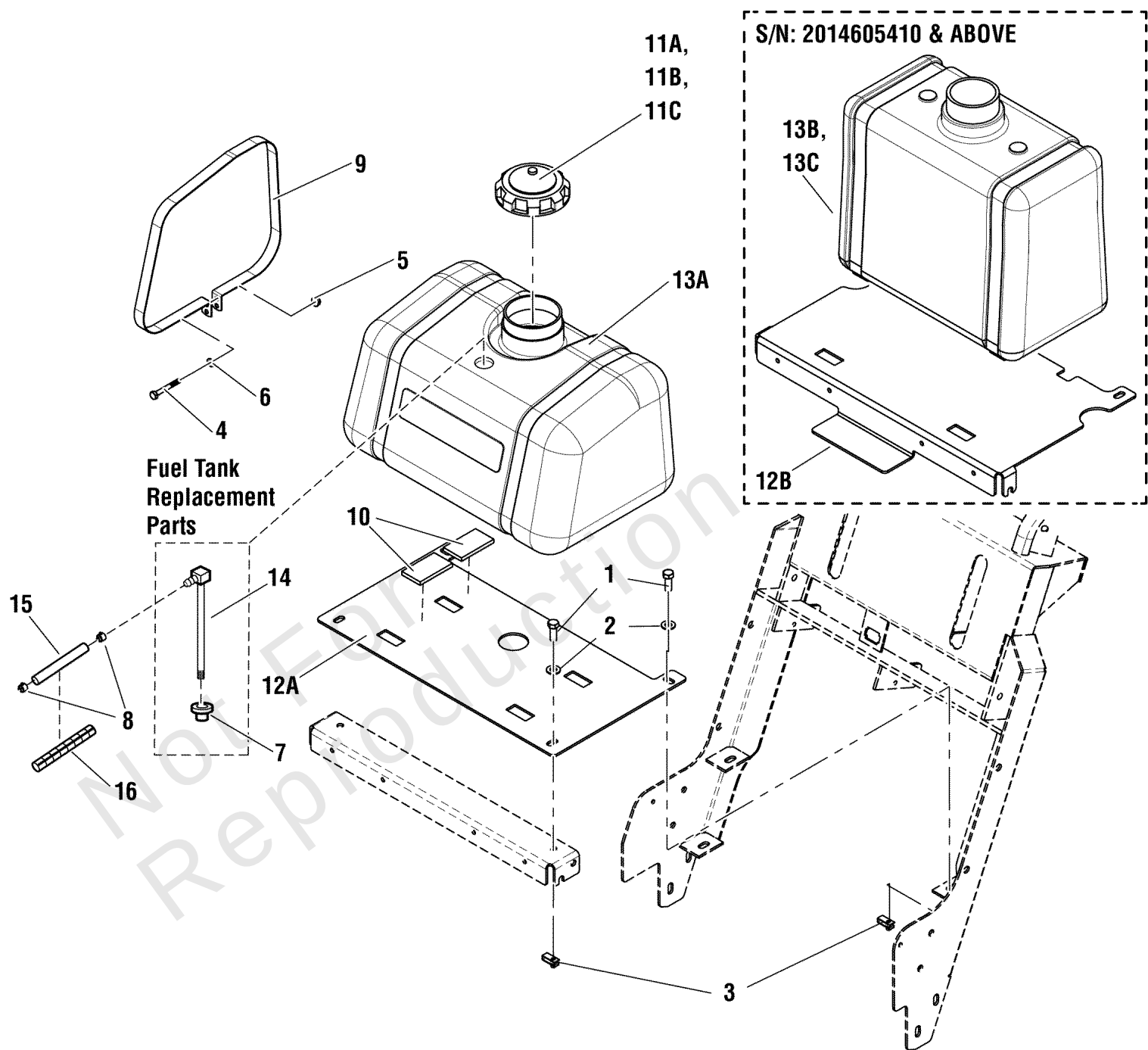
REF NO	PART NO	QTY	DESCRIPTION
1	5025158	6	WASHER, 1/2 SAE
2	5025448	2	NUT, 3/4-16, HEX JAM NYLON LOCK
3	5025449	4	WASHER, BELLEVILLE - 1.500 X .755
4	5025452	4	BODY CLIP, 5/16-18 -1/4 MATERIAL
5	5101731	4	KNOB, 5/16-18 X 1.00, ROSETTE, BLK -(Domestic Models)
6	5025457	2	BOLT, 1/4-28 X 1/2, GD5 YZ
7	5020883	4	CUP, BEARING (SV)
8	5025017X12	6	BOLT, 1/2-13 X 1-1/2 GD5 CZ
9	5025396	6	NUT, Hex Flange, Nylock, 1/2-13
10a	5403338D	1	PLATE, DECK GUARD -(36" Models)
10b	5403429D	1	GUARD, DECK LIFT -(48" Models - S/N: 2013477945 & Below)
10c	5404846D	1	GUARD, DECK LIFT -(48" Models - S/N: 2013477946 & Above)
11	5020095	4	GREASE FITTING, 1/4-28 STRAIGHT
12	5109845	2	CAP, GREASE, LOW PROFILE
13a	5406487D	1	WELD, FRONT FRAME -(36" Models - FS481V & FS541V Engines)
13b	5403289D	1	WELD, FRONT FRAME -(36" Models - FH381V Engine - S/N: 2012951690 & Above)
13c	5403289D	1	WELD, FRONT FRAME -(36" Models - FH381V Engine - S/N: 2012951689 & Below)
14	5020884	4	BEARING, TAPERED ROLLER, 1"
15a	5401759D	2	WELD, CASTER YOKE -(36" Models - FS481V & FS541V Engines)
15b	5407308D	2	WELD, CASTER YOKE -(All 48" & 36" Models - FH381V - S/N: 2012954690 & Above)
15c	84008464	2	YOKE, Caster -(36" Models - FH381V Engine - S/N: 2012951689 & Below)
16	5021072	2	SEAL, GREASE
17	5025011X8	4	BOLT, 5/16-18 X 1 GD5 YZ -(Export Models)
18	5025170	4	WASHER, 5/16 LOCK CZ -(Export Models)
19a	5403626D	1	WELD, FRONT FRAME -(48" Models - S/N: 2013477945 & Below)
19b	5404845D	1	WELD, FRONT FRAME -(48" Models - S/N: 2013477946 & Above)
20	5025155	4	WASHER, 5/16" SAE -(Export Models)

Fuel Tank & Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

5301068



Fuel Tank & Mount Group

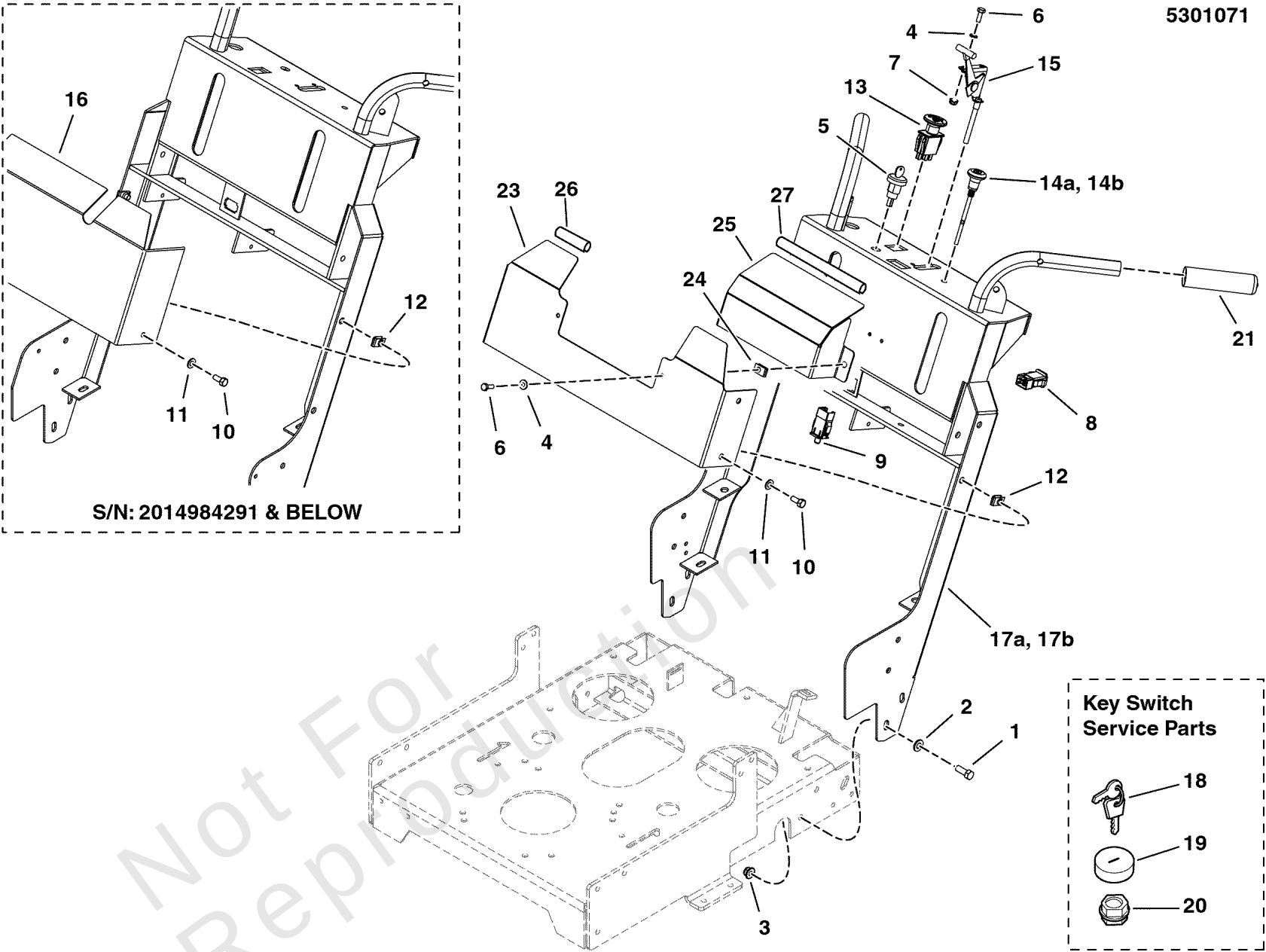
REF NO	PART NO	QTY	DESCRIPTION
1	5025013X8	4	BOLT, 3/8-16 X 1" GD5 CZ
2	5025156	4	WASHER, 3/8 SAE
3	5022649	4	BODY CLIP, 3/8-16 X .688" DEEP
4	5025010X14	2	BOLT, 1/4-20 X 1-3/4", GD5
5	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
6	5025154	2	WASHER, 1/4 SAE
7	1726400	1	BUSHING-FUEL TANK RED RUBBER -(S/N: 2014605409 & Below)
8	93807	2	CLAMP, HOSE, EXTERNAL, 1/2 - RED
9	5403445A	2	STRAP, FUEL TANK
10	5101270	4	PAD, RUBBER MOUNT, 1/4 MAT
11a	5022158	1	CAP, FUEL TANK, 3-1/2 NECK -(S/N: 2014605409 & Below)
11b	5101651	1	CAP, GASOLINE, VENTED -(S/N: 2014605410 - 2014744379)
11c	5103005	1	FUEL CAP, 3-1/2", MANAGED VENT OUT, 12" -(S/N: 2014744380 & Above)
12a	5406661D	1	PLATE, FUEL TANK MOUNT - RED -(S/N: 2014605410 & Above)
12b	5403229D	1	PLATE, FUEL TANK MOUNT - RED -(S/N: 2014605409 & Below)
13a	5102833	1	TANK, FUEL -(S/N: 2014744380 & Above)
13b	5102063	1	TANK, FUEL, PLASTIC, TOP DRAW, NO LOGO -(S/N: 2014605410 - 2014744379)
13c	5101231	1	TANK, FUEL -(S/N: 2014605409 & Below)
14	5101261	1	PICKUP TUBE ASM, FUEL TANK, 8.0" (SV) -(S/N: 2014605409 & Below)
15	5050831X13	1	HOSE, 1/4" FUEL, 13.00"
16	5050833X17	1	WIRE LOOM, 1/2" ID, 17" LONG
17	5021500	1	CLAMP, VINYL INSULATED -(Not Shown)
18	5102833X1	1	GROMMET -(Grommet for fuel tank 5102833)

Handle Bar & Instrument Control Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

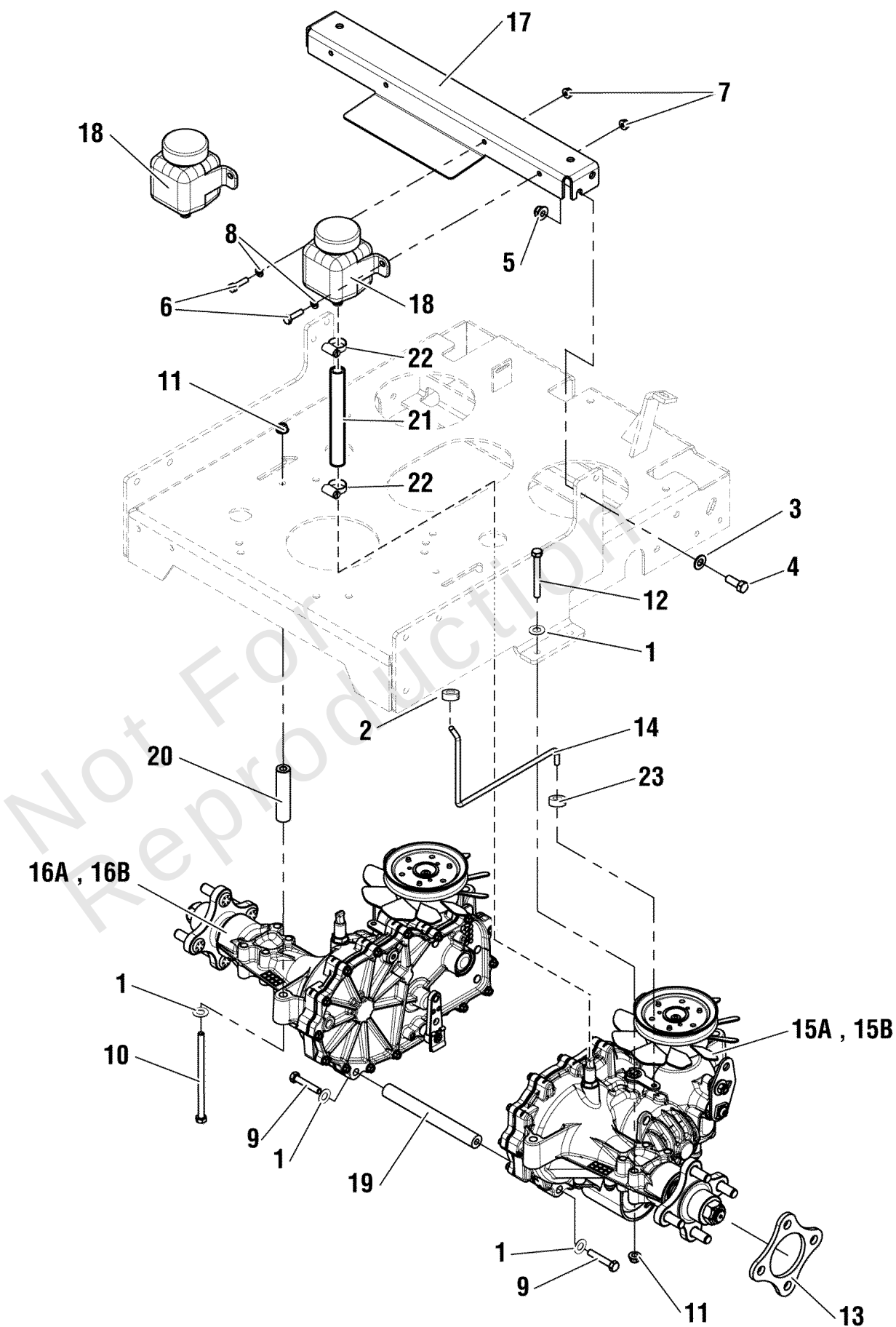
5301071



Handle Bar & Instrument Control Group

REF NO	PART NO	QTY	DESCRIPTION
1	5025013X8	6	BOLT, 3/8-16 X 1" GD5 CZ
2	5025293	6	WASHER, 3/8 GD.9 FLAT
3	5025394	6	NUT, 3/8-16 HEX NYLOCK FLANGE
4	5025154	4	WASHER, 1/4 SAE
5	5021842	1	SWITCH, IGNITION, 2 POST
6	5025010X6	4	BOLT, 1/4-20 X 3/4 GD5 YZ
7	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
8	5101280	1	SWITCH, PLUNGER, NO/NC SNAP-IN, LOW PROFILE
9	5101216	1	SWITCH, PLUNGER, NC, SINGLE POLE SNAP-IN
10	5025011X6	4	BOLT, 5/16-18 X 3/4 GD5
11	5025155	4	WASHER, 5/16" SAE
12	5022308	4	BODY CLIP, 5/16-18-7GA MATERIAL
13	5022180	1	SWITCH, BLADE ENGAGEMENT
14a	5047912	1	CABLE, CHOKE CONTROL, 56" -(Briggs & Stratton Models Only)
14b	5102624	1	CABLE, CHOKE CONTROL, 56" DETENTED -(Kawasaki Models Only)
15	5101213	1	CABLE, THROTTLE, 54"
16	5600276	1	HANDLE BAR COVER W/ DECALS, SW20 -(S/N: 2014984291 & Below)
17a	5600476	1	HANDLE BAR W/ DECALS, SW20 -(S/N: 2014582799 & Above)
17b	5600275	1	HANDLE BAR W/ DECALS, SW20 -(S/N: 2014582798 & Below)
18	5022789	1	KEY, IGNITION MOLDED SET
19	5022790	1	COVER, PLASTIC, SNAP ON
20	5022791	1	PLASTIC NUT
21	5104659	2	GRIM, FOAM, .940" ID X 4.62" X .187", BLK
22	-----	1	PLATE, Throttle Stop -(Not Shown) (CE Models)
23	5408369D	2	PLATE, HANDLE BAR COVER, SNP PRO -(S/N: 2014984292 & Above)
24	5022665	2	BODY CLIP, 1/4-20 X .500 DEEP -(S/N: 2014984292 & Above)
25	5408371D	1	PLATE, CARB CANISTER -(S/N: 2014984292 & Above)
26	5050853X3	2	BODY MOLDING, 3" LONG
27	5050853X8P50	1	BODY MOLDING, 8.50 LONG

5301074



Hydraulic Group

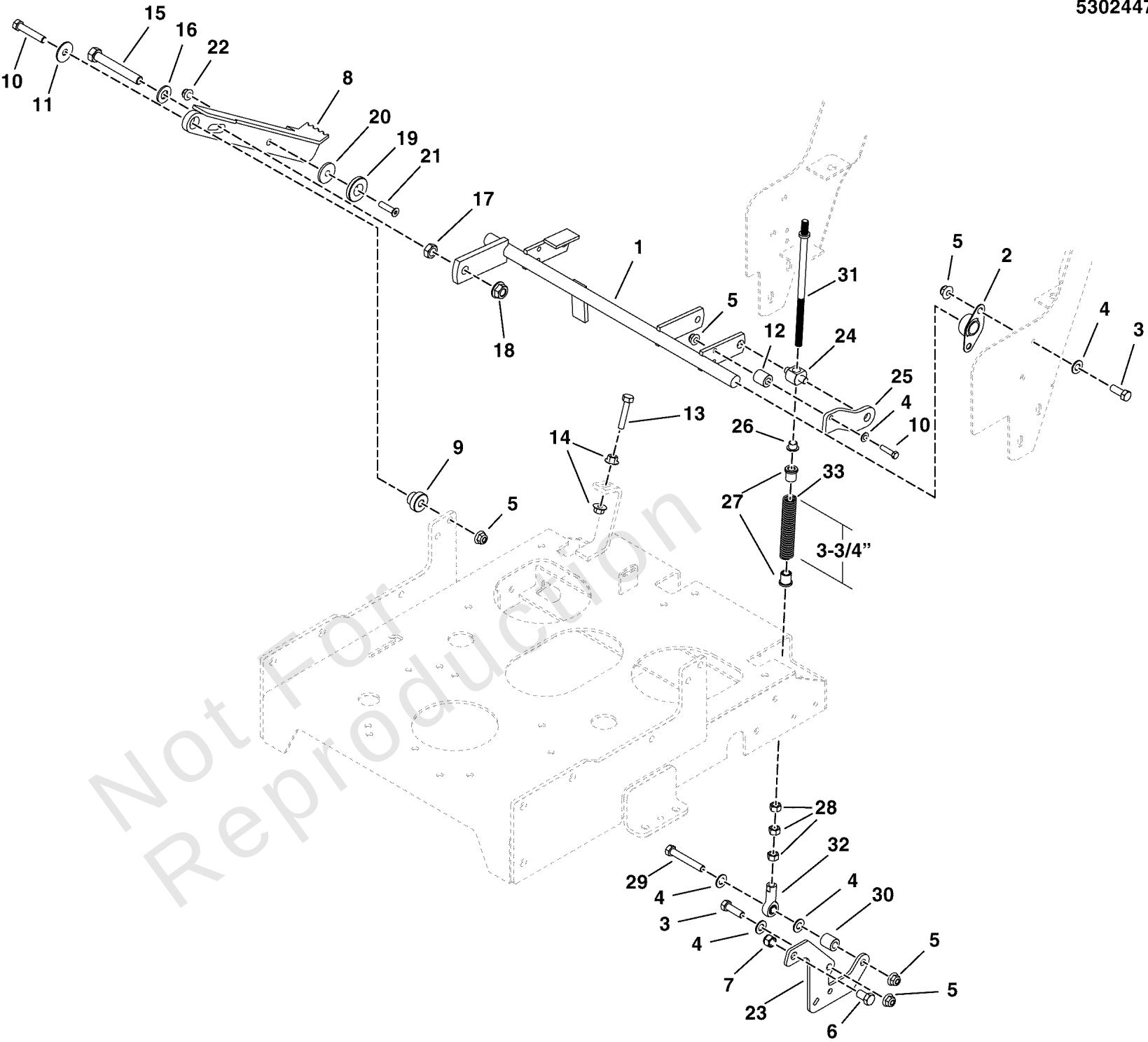
REF NO	PART NO	QTY	DESCRIPTION
1	5025292	8	WASHER, 5/16 GD.9 FLAT
2	5020047	2	COLLAR, 5/16 SET
3	5025156	3	WASHER, 3/8 SAE
4	5025013X8	3	BOLT, 3/8-16 X 1" GD5 CZ
5	5025394	3	NUT, 3/8-16 HEX NYLOCK FLANGE
6	5025010X6	4	BOLT, 1/4-20 X 3/4", GD5
7	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE
8	5025154	4	WASHER, 1/4 SAE
9	5025011X18X*	2	BOLT, 5/16-18 X 2-1/4 GD5 YZ
10	5025011X44	2	BOLT, 5/16-18 X 5-1/2, GD 5, YZ
11	5025392	6	NUT, 5/16-18 HEX NYLOCK FLANGE
12	5025011X22	4	BOLT, 5/16-18 X 2-3/4, GD 5, YZ
13	5403335A	2	NLA - PLATE,WHEEL SPACER-4-BOLT,1/4-BLK -(Kawasaki FH Engine)
14	5102883	2	ROD, HYDRO RELEASE, SW20
15A	5101188	1	TRANSMISSION, ZT2800, LH (ZH-GMBB-3A5A-1KLX) -(S/N: 2014669148 & Below)
15B	5102809	1	TRANSMISSION, ZT3100, LH (ZJ-GMFE-3B5B-1RLX) -(S/N: 2014669149 & Above)
16A	5101189	1	TRANSMISSION, ZT2800, RH (ZH-KMBB-3A5A-1KLX) -(S/N: 2014669148 & Below)
16B	5102810	1	TRANSMISSION, ZT3100, RH (ZJ-KMFE-3B5C-1RLX) -(S/N: 2014669149 & Above)
17	5403228D	1	PLATE, HYD TANK MOUNT - RED -(Kawasaki FH and B&S Engines)
18	5100473	2	RESERVOIR, HYDRO OIL, 350 ML
19	5101176	1	ROD, HYDRO LINK, CZ
20	5101177	2	SPACER, .34 X .75 X 3.27, YZ
21	5050857X4P25	2	HOSE, 1/2" X 4.25 PUSH-ON
22	5025474	4	CLAMP, HOSE, .75 FREE DIA.
23	5022481	2	COLLAR, 1/4" SET

Motion Control Group - Lower (36" Models - Kawasaki FS Engines)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

5302447



Motion Control Group - Lower (36" Models - Kawasaki FS Engines)

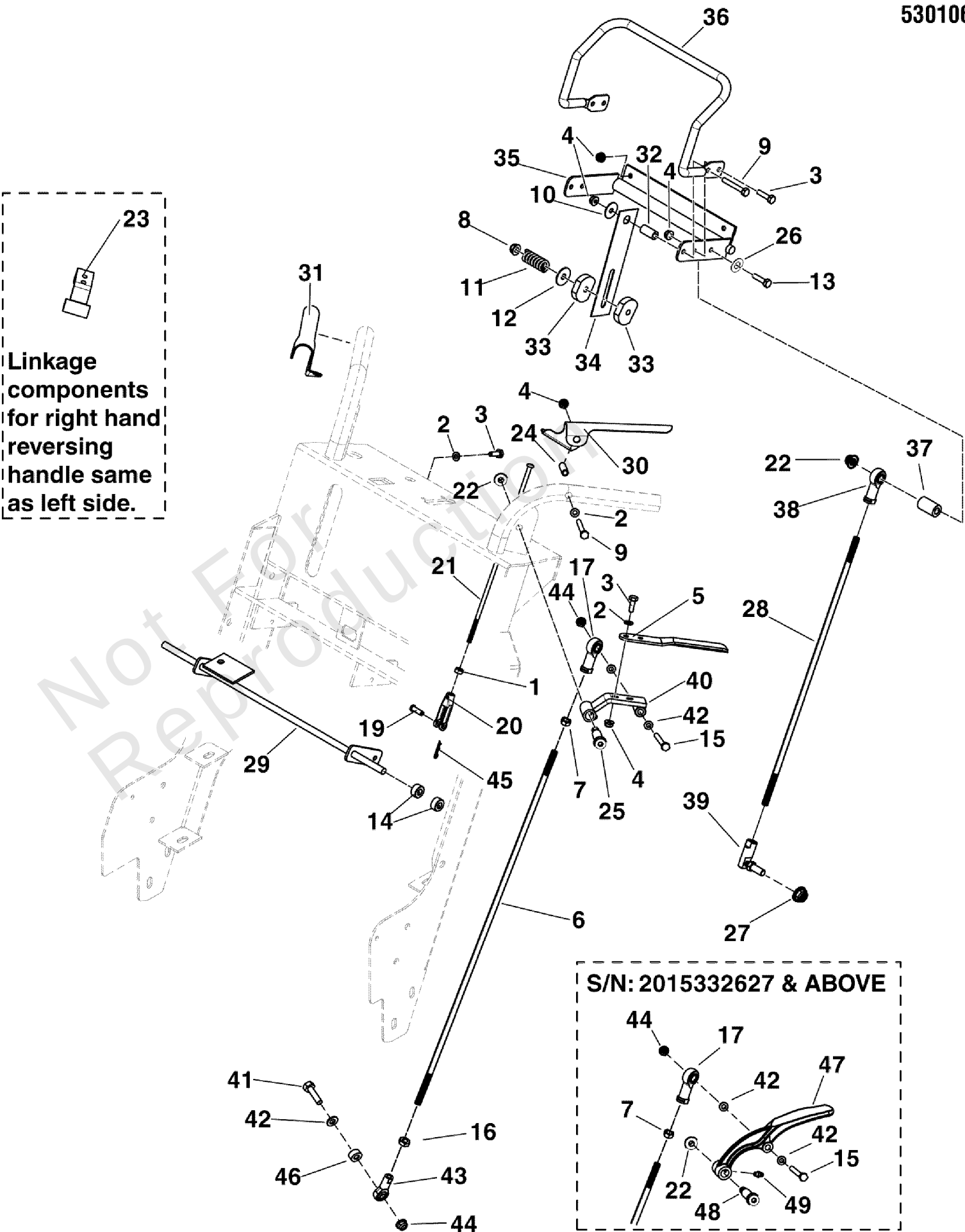
REF NO	PART NO	QTY	DESCRIPTION
1	5407178D	1	WELD, CONTROL SHAFT, SW20 - RED
2	5021098	2	BEARING, BRONZE FLANGE, 3/4"
3	5025013X8	6	BOLT, 3/8-16 X 1" GD5 CZ
4	5025156	8	WASHER, 3/8 SAE
5	5025394	9	NUT, 3/8 - 16 HEX NYLOCK FLANGE
6	5025015X6	2	BOLT, 7/16-14 X 3/4, GD 5 YZ
7	5025044	2	NUT, 7/16-14 HEX TOP LOCK
8	5407090D	1	WELD, FOOT PEDAL, SW30 - RED
9	5102406	1	SPACER, .38 X 1.13 X .781 STEP, CZ
10	5025013X16	3	BOLT, 3/8-16 X 2, GD5, CZ
11	5100548	1	WASHER, .390 X 1.50 X .109, YZ
12	5047125	2	SPACER, .39 X 1.00 X .88, CZ
13	5025538	1	BOLT, 5/16-24 X 1-3/4, FULL THRD, GD5 YZ
14	725338	2	NUT, .31-24 HEX FLG SERRATED LK
15	5025017X28	1	BOLT, 1/2-13 X 3-1/2, HEX HD, GD5, CZ (SV)
16	5025158	1	WASHER, 1/2 SAE
17	5025301	1	NUT, Hex, Jam, 1/2-13
18	5025396	1	NUT, Hex Flange, Nylock, 1/2-13
19	5102701	1	SPACER, .34 X 1.54 X .25 - UHMW
20	5044617	1	WASHER, .34 X 1.25 X 10 GA
21	5025561	1	SCREW, 5/16-18 X 1-1/4, FSHS, BLK, ALLEN
22	5025392	1	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
23	5407040D	2	PLATE, CONTROL ARM, SW20 - RED
24	5103022	2	TRUNION, 1/2" POSTS, STAINLESS
25	5407113D	2	BRACKET, PIVOT SUPPORT - RED
26	5102773	2	BUSHING, .38ID X .47 OD X .38L, FL
27	5102709	4	BUSHING, .38 X .75 X .75, PLASTIC
28	5025035SM	6	NUT (3/8-24 HEX)
29	5025013X20	2	BOLT, 3/8-16 X 2-1/2" GD5 CZ
30	5042658	2	SPACER, .38 X .75 X 1.06, YZ
31	5102716	2	ROD, RETURN CONTROL, SW30
32	5021683	2	BALL JOINT, 3/8-24 FEMALE
33	5023320	2	SPRING-COMP, .615ID X 4.00LG X .080WR

Motion Control Group - Upper (S/N: 2013371558 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

5301069A



Motion Control Group - Upper (S/N: 2013371558 & Above)

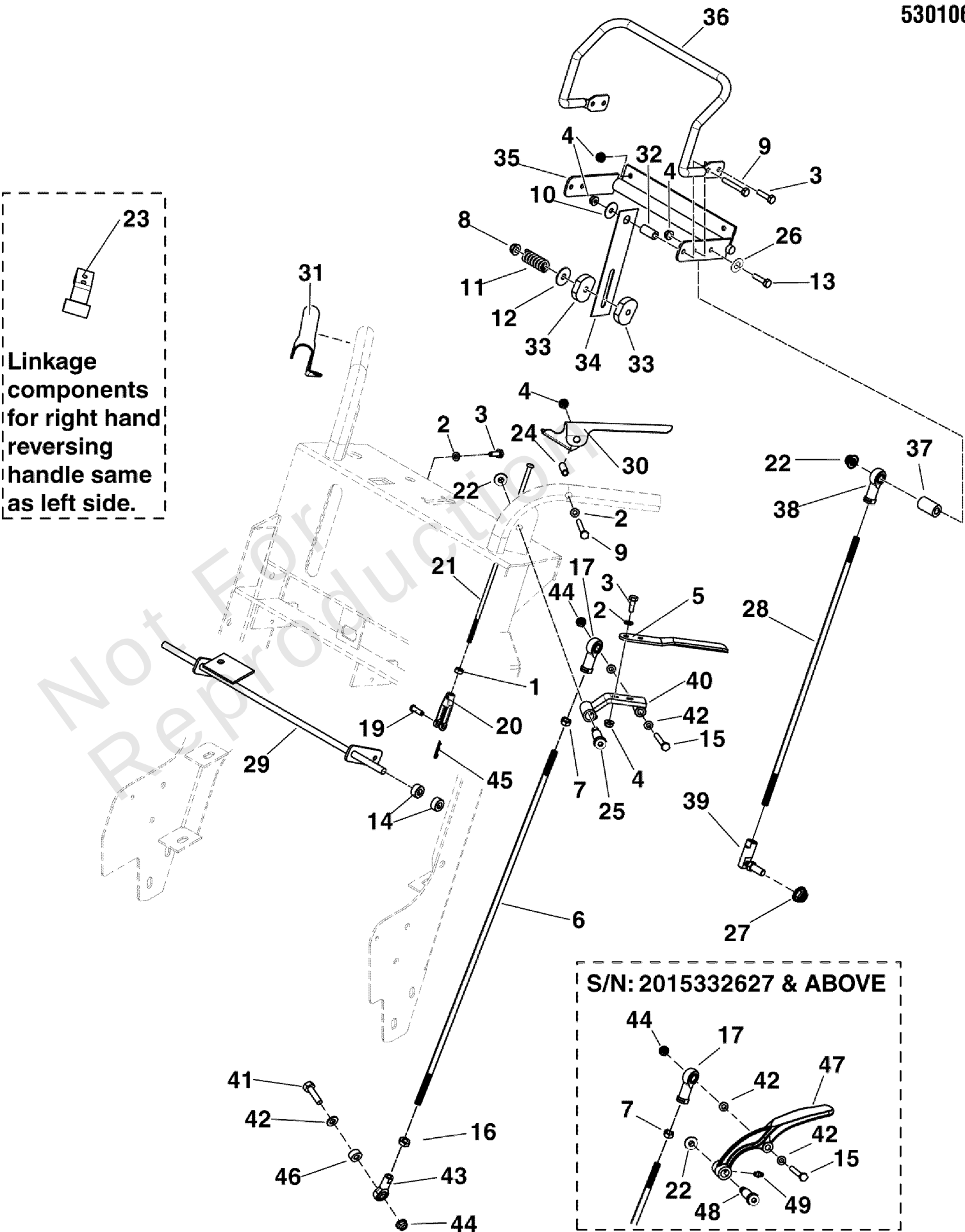
REF NO	PART NO	QTY	DESCRIPTION
1	7090095	2	HN, 1/4F GR5 YZ
2	5025154	8	WASHER, 1/4 SAE
3	5025010X6	5	BOLT, 1/4-20 X 3/4 GD5 YZ
4	5025391	9	NUT, 1/4-20 HEX NYLOCK FLANGE
5a	5407391A	2	LEVER, REVERSE HANDLE - BLK -(S/N: 2014663599 - 2015332626)
5b	5101287A	2	LEVER, REVERSE HANDLE - BLK -(S/N: 2014663598 & Below)
6	5103349	2	ROD, 5/16-24 X 33.2 LH-RH, YZ
7	5023212	2	NUT, 5/16-24 HEX, LH
8	5025392	1	NUT, 5/16-18 HEX NYLOCK FLANGE
9	5025010X14	3	BOLT, 1/4-20 X 1-3/4" GD5 YZ
10	5025288	1	WASHER, 1/4" FENDER
11	5022361	1	SPRING-COMP, .428IDX2.50LGX.154WR, BZ
12	5025164	1	WASHER, 5/16" FENDER
13	5025013X20	1	BOLT, 3/8-16 X 2-1/2" GD5 CZ
14	5010546	2	COLLAR, 3/8" SET
15	5025011X20	2	BOLT, 5/16-18 X 2-1/2 GD5 YZ
16	5025033	4	NUT, 5/16-24 HEX
17	5104579	2	BALL JOINT 5/16-24 LH FEMALE STAMPED STL
18	5020047	2	COLLAR, 5/16" SET
19	5025212X7	2	PIN, CLEVIS, 1/4 X 7/8, PLATED
20	84007748	2	CLEVIS
21	5101242	2	ROD, OPC LINK, SNP PRO WB
22	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
23	5403307D	1	WELD, REVERSE HANDLE - RH -(S/N: 2015332626 & Below)
24	5101215	2	SPACER, .26 X .38 X 1.250, YZ
25	5025223	2	BOLT, 3/8-16 X 1, 1/2 SHOULDER -(S/N: 2015332626 & Below)
26	5025156	2	WASHER, 3/8 SAE
27	5025097	1	NUT, 3/8-24 HEX NYLON LOCK
28	5101236	1	ROD, CRUISE CONTROL, SNP PRO WB
29	5403239D	1	WELD, OPC SHAFT- RED
30	5104202A	1	NLA - FLAP, OPS - BLK
31	5104201A	1	NLA - FLAP, OPS - BLK
32	5101274	1	SPACER, .26 X .50 X 1.00 YZ
33	5102701	2	SPACER, .34 X 1.54 X .25 UHMW
34	5403778	1	PLATE, FRICTION CONTROL
35	5403776D	1	WELD, SPEED CONTROL, DDS - RED
36	5100744	1	BAR, SPEED CONTROL, DIPPED
37	5101245	1	SPACER, .38 X .75 X 1.25, YZ
38	5022392	1	ROD END, 3/8-24 LH FEMALE
39	5020805	1	BALL JOINT, 3/8-24 FEM, STUD.
40	5403959D	1	WELD, REVERSE HANDLE - LH -(S/N: 2015332626 & Below)
41	5025055X10	2	BOLT, 5/16-18 X 1-1/4 GD5 TFL, CZ
42	5025155	2	WASHER, 5/16" SAE
43	5104578	2	BALL JOINT 5/16-24 RH FEMALE STAMPED STL
44	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE
45	5025211	2	PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ
46	5102463	2	SPACER, .33 X .50 X .25, CZ -(36" Models - Kawasaki FS Engines)

Motion Control Group - Upper (S/N: 2013371558 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

5301069A



Motion Control Group - Upper (S/N: 2013371558 & Above)

REF NO	PART NO	QTY	DESCRIPTION
47	5102556A	2	HANDLE, REVERSING - BLK -(S/N: 2015332627 & Above)
48	5025223	2	BOLT, 3/8-16 X 1, 1/2 SHOULDER -(S/N: 2015332627 & Above)
49	5020095	2	GREASE FITTING, 1/4-28 STRAIGHT -(S/N: 2015332627 & Above)

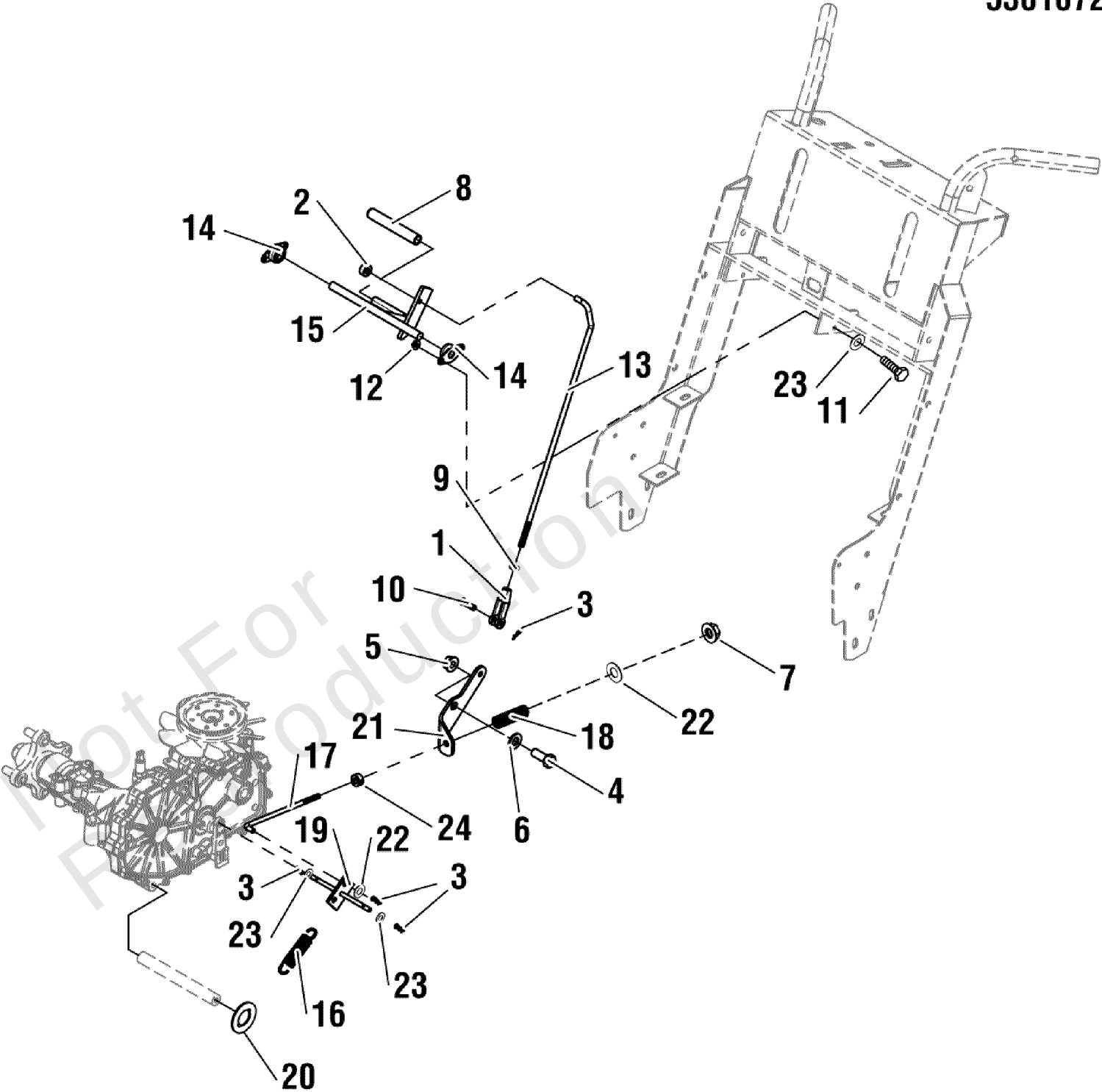
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Parking Brake Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

5301072



Parking Brake Group

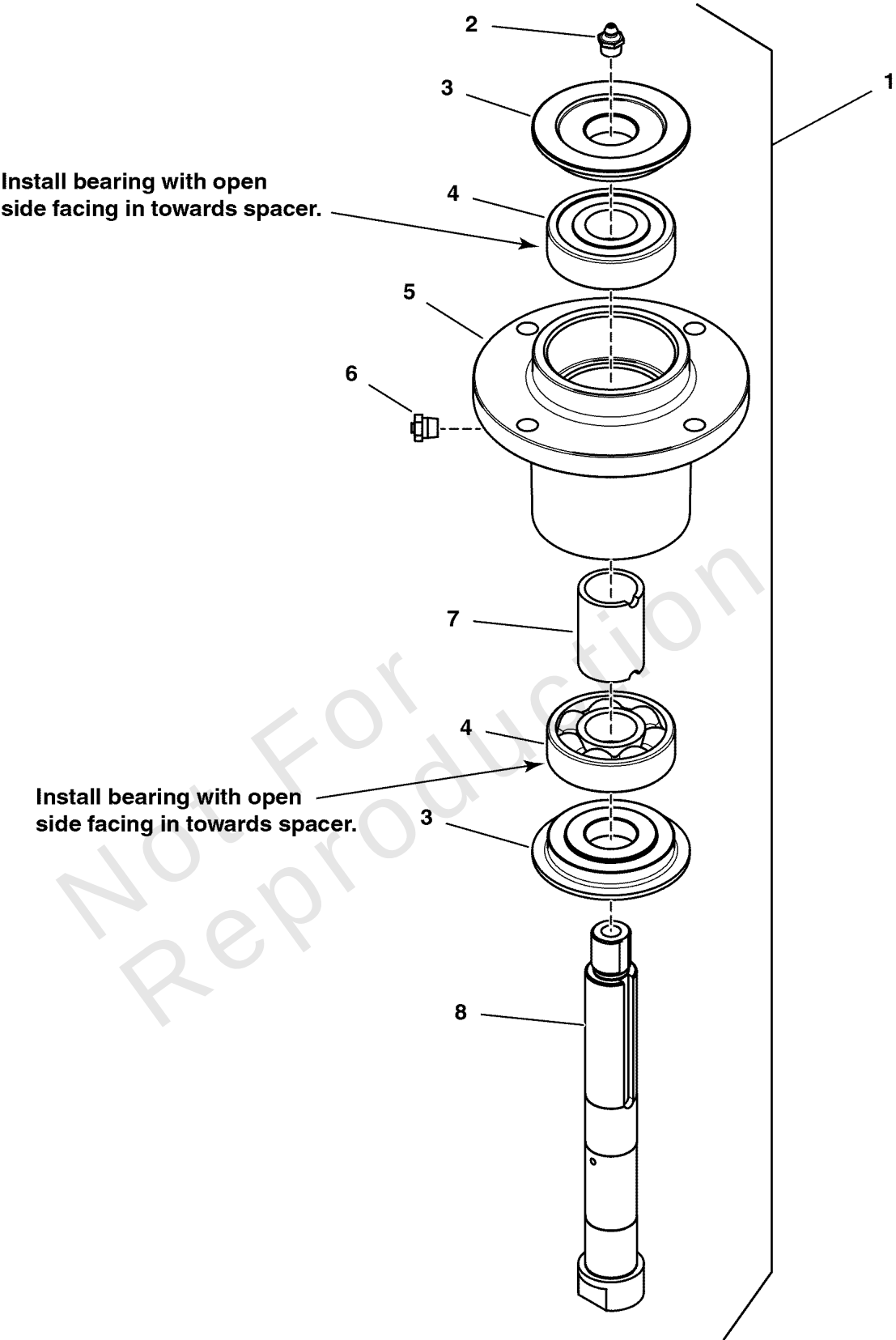
REF NO	PART NO	QTY	DESCRIPTION
1	5023323	1	CLEVIS, 5/16-24, STEEL, CLEAR ZINC
2	5020047	1	COLLAR, 5/16 SET
3	5025211	4	PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ
4	5025017X12	1	BOLT, 1/2-13 X 1-1/2 GD5 CZ
5	5025396	1	NUT, Hex Flange, Nylock, 1/2-13
6	5025158	1	WASHER, 1/2 SAE
7	5025045	1	NUT, 5/16-24 HEX NYLON LOCK
8	5021880	1	GRIP, FOAM
9	5023216	1	NUT, 5/16-24 JAM
10	5025213X8	1	PIN, CLEVIS, 5/16 X 1 YZ
11	5025010X6	4	BOLT, 1/4-20 X 3/4 GD5 YZ
12	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE
13	5101116	1	ROD, PULLER ROD
14	5101123	2	BEARING, 1/2" FLANGED
15	5403361D	1	WELD BRAKE SHAFT - RED
16	5101253	1	SPRING-EXT, .75 OD X 3.40 LG, X .115 WR
17	5101246	1	ROD, LOWER BRAKE CONTROL
18	5023242	1	SPRING, CONTROL ROD
19	5403395D	1	WELD, BRAKE LINK CONNECTOR - RED
20	5403960	1	WASHER, KEYED, 1-1/2 OD
21	5403312D	1	LINK, BRAKE PIVOT
22	5025155	2	WASHER, 5/16" SAE
23	5025154	6	WASHER, 1/4 SAE
24	5102997	1	COLLAR, DOUBLE SPLIT, 5/16 CZ

Spindle Service Parts - 5061096

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

5061096



Spindle Service Parts - 5061096

REF NO	PART NO	QTY	DESCRIPTION
1	5061096	1	SPINDLE ASSM, ALUMINUM, LONG SHAFT -(*See Footnote)
2	5023329	1	FITTING, 1/8 NPT STR, SHORT -(SV)
3	5049793	2	TRASH SHIELD -(SV)
4	5023330	2	BEARING, .98 X 2.44 X .67 -(SV)
5	5061097	1	HOUSING, SPINDLE -(SV)
6	5023296	1	FITTING, RELIEF, 1-5 PSI -(SV)
7	5061099	1	SPACER, 1.00 X 1.25 X 1.75 -(SV)
8	5061100	1	SHAFT, SPINDLE -(SV)

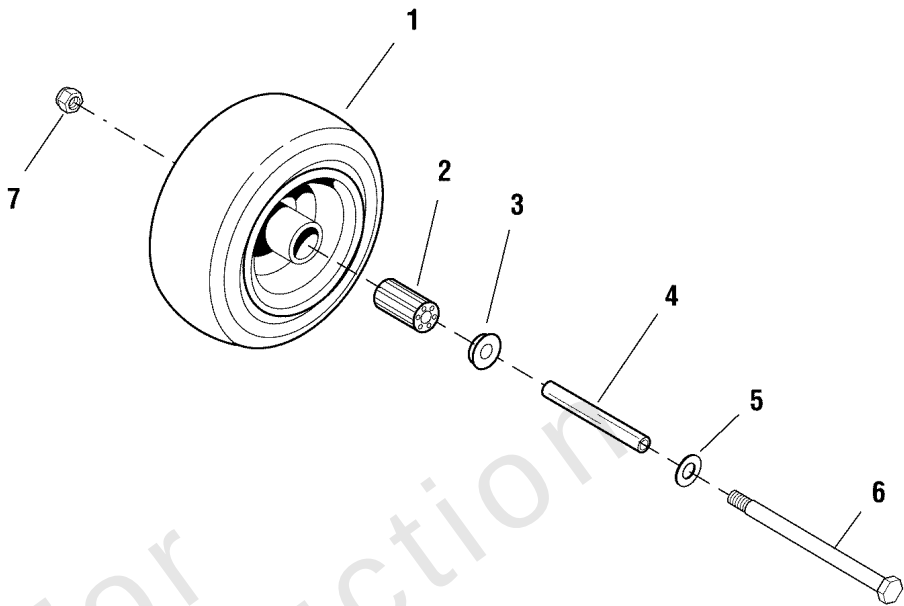
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Reproduction

Footnotes:

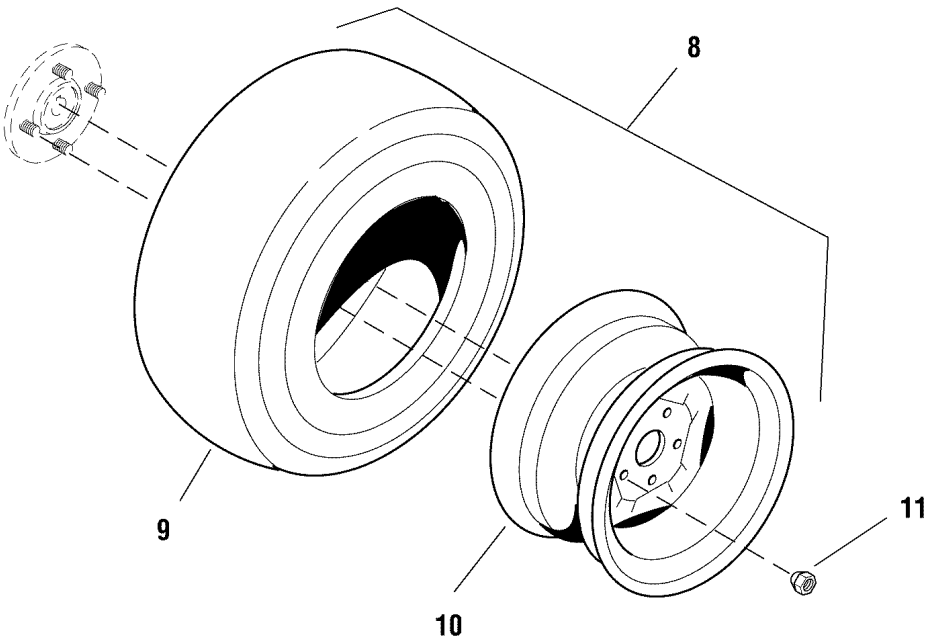
(* Includes Items # 2 - 8)

5302436

Front Wheels & Tires



Rear Wheels & Tires

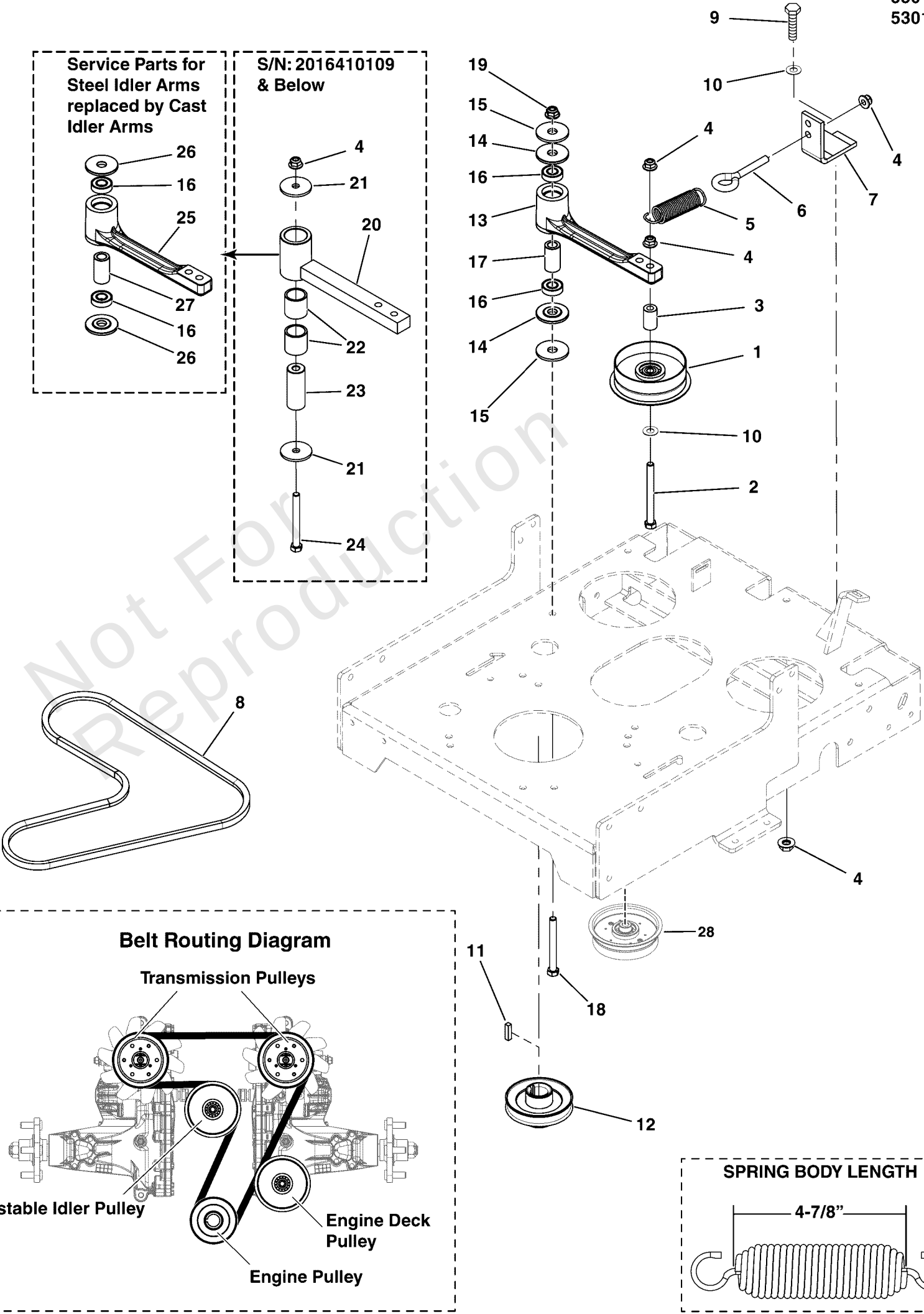


Inflate to 15 PSI (1,03 bar)

Tire & Wheel Group - Kawasaki FS Engines

REF NO	PART NO	QTY	DESCRIPTION
1	5100715	2	TIRE ASSM, 11X4.00-5 FLAT FREE
2	5101418X1	2	BEARING, CASTER WHEEL
3	5021043	2	RETAINER, BEARING
4	5045996	2	CASTER AXLE DDSH
5	5025158	2	WASHER, 1/2 SAE
6	5025017X56	2	BOLT, 1/2-13 X 7 GD5 YZ
7	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
8	5102375	2	TIRE ASM, 20X7-10, 2.0 OS TURF MASTER
9	5101068X1	2	TIRE, 20 X 7 -10 NHS, TURF MASTER
10	5102375X1	2	WHEEL, 10X6, 4 BOLT, NEG .700" OFFSET
11	5020601	8	NUT, 1/2-20, FOR WHEEL BOLT SILVER

5301381
5301073
5301661



Transaxle Drive Group

REF NO	PART NO	QTY	DESCRIPTION
1	5103808	1	PULLEY, SINGLE FLANGED, 4"ODX3/8"ID
2	5025013X32	1	BOLT, 3/8-16 X 4" GD5 CZ
3	5101245	1	SPACER, .38 X .75 X 1.25, CZ
4	5025394	5	NUT, 3/8-16 HEX NYLOCK FLANGE
5	5100633	1	SPRING-EXT, 1.25 ODX5.70LGX.142WR, BLK
6	5023497	1	EYE BOLT, 3/8-16 X 5, 2.88THRD, 1EYE, CZ
7	5408037B	1	BRACKET, EYEBOLT - RED
8	5021770	1	BELT, A-SEC, 61.38EL, ARAMID, WRPD
9	5025013X8	1	BOLT, 3/8-16 X 1" GD5 CZ
10	5025156	2	WASHER, 3/8 SAE
11	5050407X8	1	KEY, 1/4 SQ X 1
12	5101311	1	PULLEY, CRANKSHAFT, 1.0005 ID X 4.25 OD
13	5411066	1	ASSM, IDLER ARM, PUMP DRIVE, 1/2IC, CAST -(SV)(S/N: 2016410110 & Above)(5101178A)
14	5103262	2	SPACER, IDLER ARM, 1/2, PM
15	5103282	2	WASHER, .52 X 1.75 X .14, CZ
16	7078243	2	BEARING, BALL, AXLE
17	5103812	1	SPACER, .52 X .84 X 1.53, PM
18	5025017X28	1	BOLT, 1/2-13 X 3-1/2, HEX HD, GD5, CZ (SV)
19	5025396	1	NUT, Hex Flange, Nylock, 1/2-13
20	-----	1	NO LONGER AVAILABLE, USE ITEM # 25
21	5025305	2	WASHER, .41 X 1.75 X .14
22	5022157	2	BUSHING, BRASS, 1.25X1X1.25
23	5102004	1	SPACER, .39 X 1.00 X 2.55, SS
24	5025013X28	1	BOLT, 3/8-16 X 3-1/2" GD5 CZ
25	5406895	1	ASSM, IDLER ARM, PUMP DRIVE, 3/8ID, CAST -(SV)(Includes items #16, 26, & 27)(5101178A)
26	5102579	2	SPACER, IDLER ARM, T-STYLE, CZ
27	5102580	1	SPACER, .39 X .88 X 1.53, CZ
28	-----	-	SEE ENGINE & PTO GROUP

Transmission SERVICE PARTS

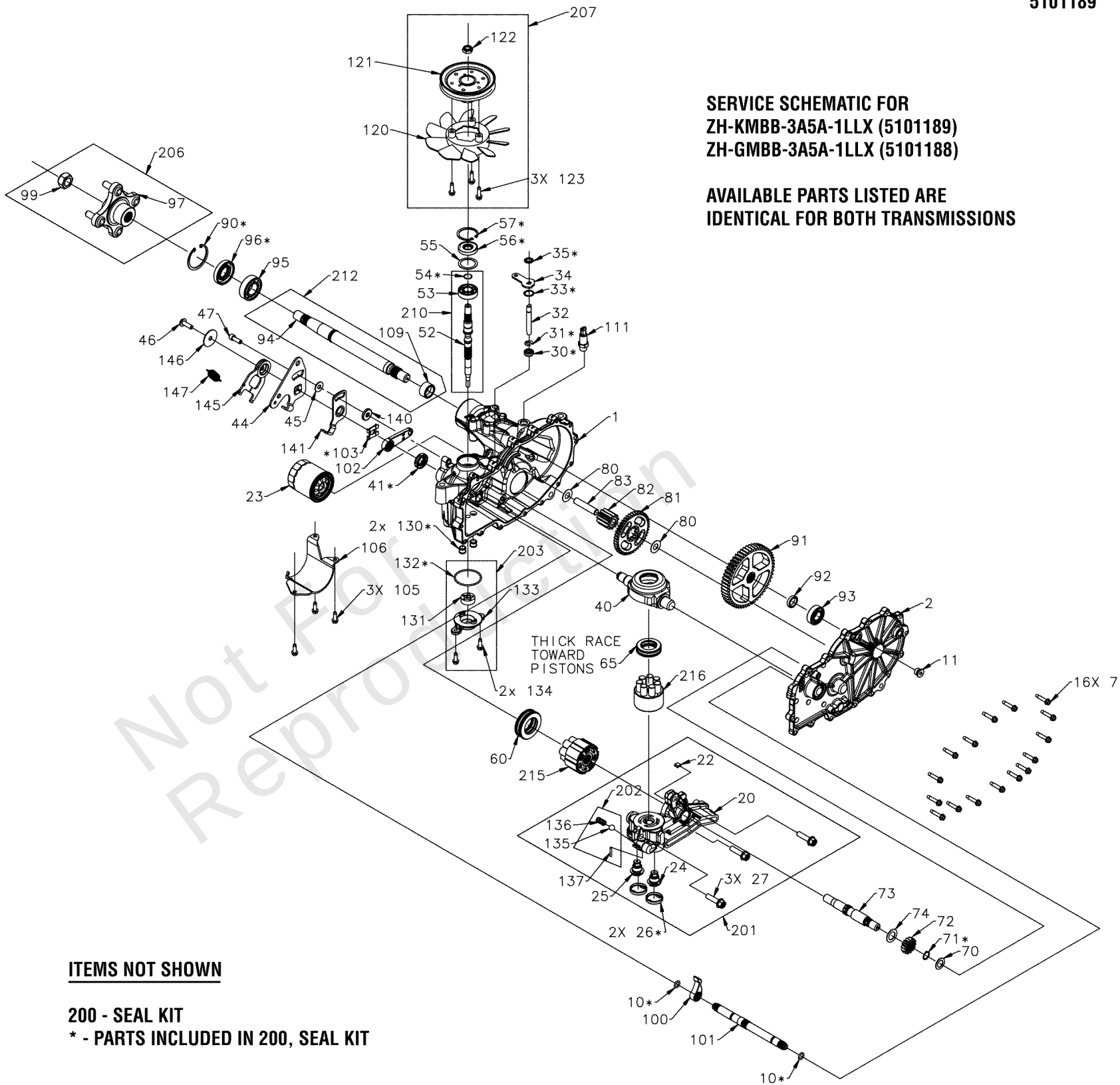
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900965

5101189

SERVICE SCHEMATIC FOR
ZH-KMBB-3A5A-1LLX (5101189)
ZH-GMBB-3A5A-1LLX (5101188)

AVAILABLE PARTS LISTED ARE
IDENTICAL FOR BOTH TRANSMISSIONS



ITEMS NOT SHOWN

200 - SEAL KIT
*** - PARTS INCLUDED IN 200, SEAL KIT**

Transmission SERVICE PARTS

REF NO	PART NO	QTY	DESCRIPTION
23	5101026X1	1	FILTER, OIL, ZT2800
41	5101026X2	1	SEAL, CONTROL ARM, 18X32X7, #51140
56	5101026X3	1	SEAL, LIP, 17 X 40 X 7
57	5101026X4	1	RING, RET 2.06 INT
95	5101026X5	1	BEARING BALL, 1.0 X 52 X 15 OPEN 6205M
120	5101188X1	1	FAN, 7", 10 BLADE
121	5101188X2	1	*PULLEY, HYDRO-GEAR 50302
200	5101026X8	1	KIT SEAL
210	5101026X9	1	KIT, INPUT SHAFT

Not For
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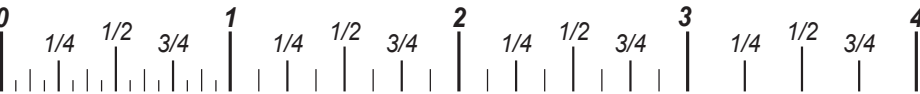
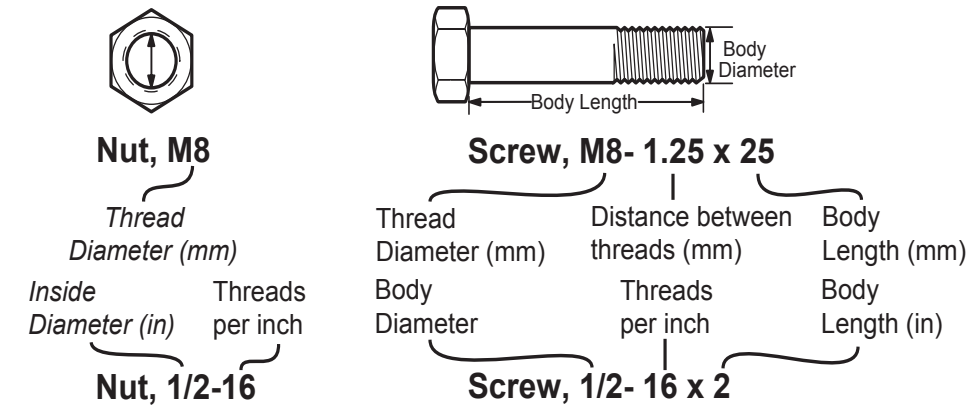
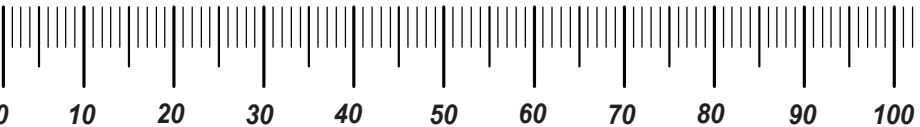
Footnotes:

* Inspect existing pulley. If pulley has splined hub order part number 5102809X1. If pulley does not, order 5101188X2.

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).

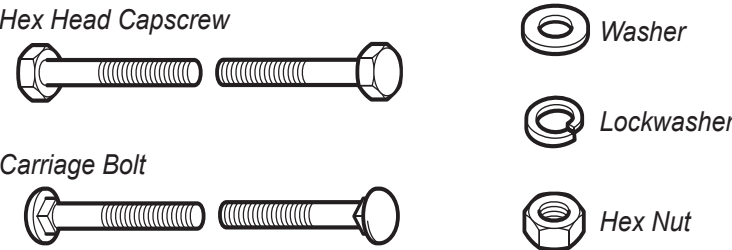
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

