



Parts Manual

Mfg. No: 5901373
S50XTKAV1948 CAL, 48" Zero-Turn Rider

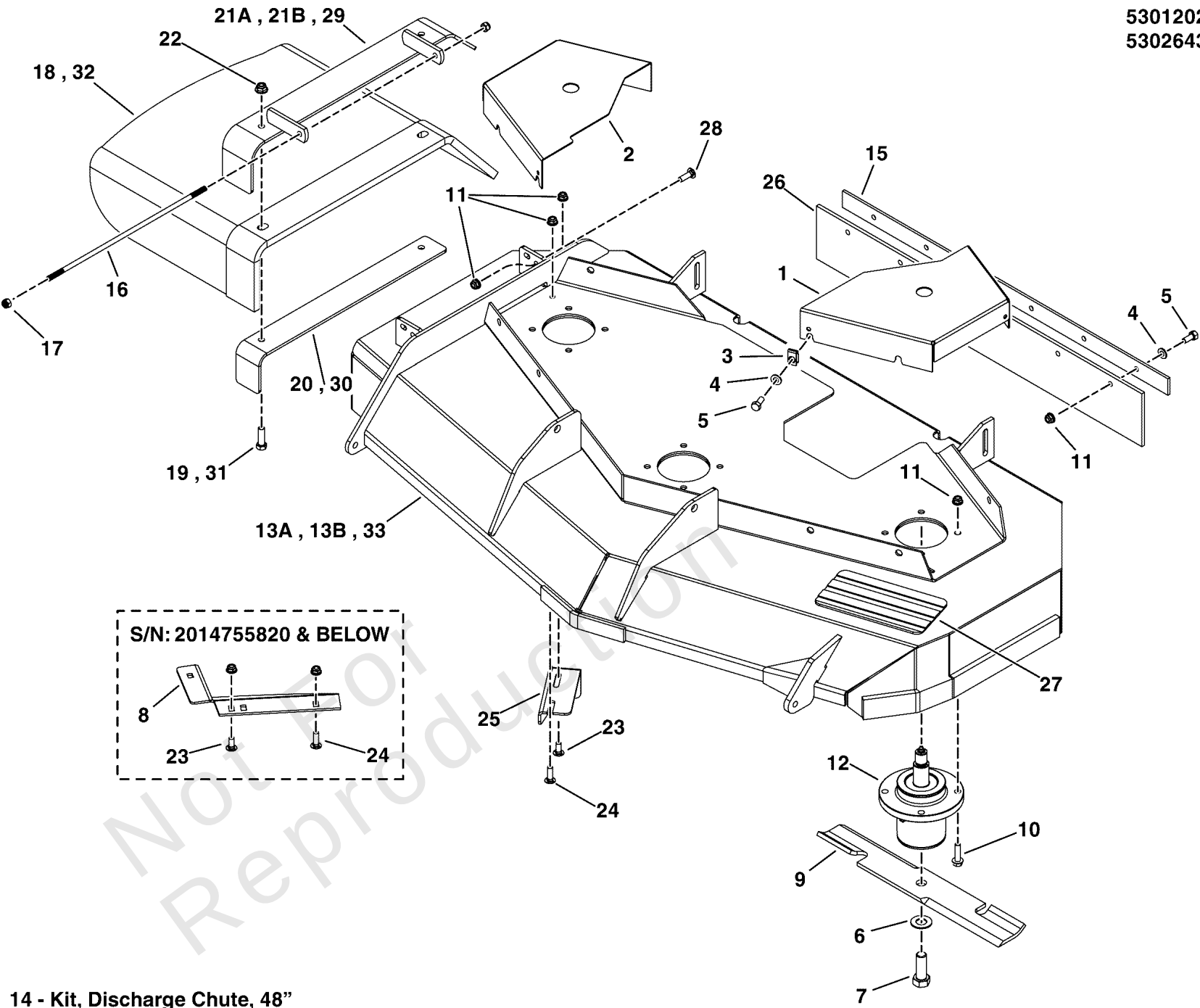
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48" Mower Deck - Housing, Covers, Spindles & Blades

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

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5302643



14 - Kit, Discharge Chute, 48"

48" Mower Deck - Housing, Covers, Spindles & Blades

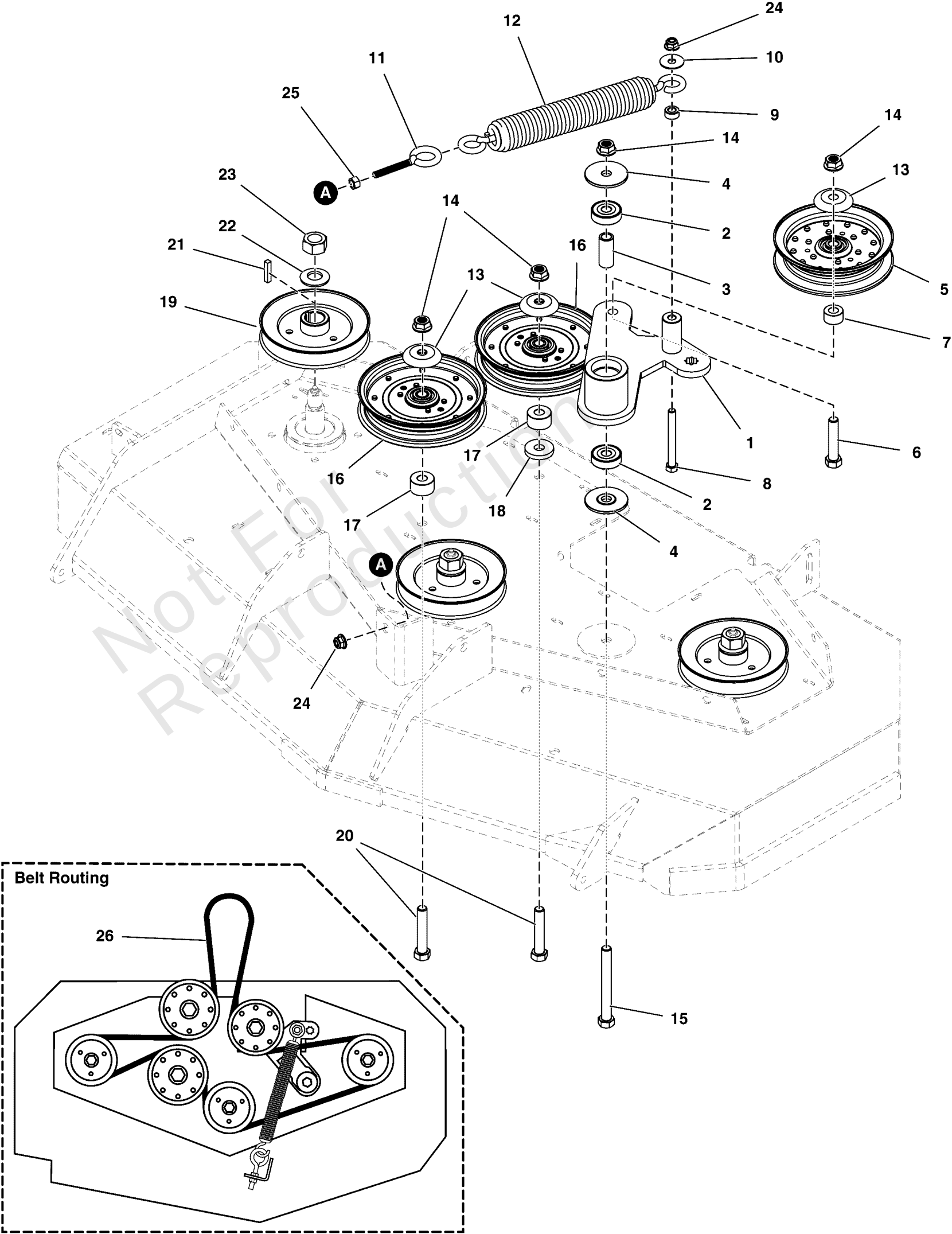
REF NO	PART NO	QTY	DESCRIPTION
1	5403531DYP	1	GUARD, Pulley, Left
2	5403532D	1	GUARD, 48" MOWER DECK, RH
3	5022308	6	BODY CLIP, 5/16-18-7GA MATERIAL
4	5025155	12	WASHER, 5/16" SAE
5	5025011X6	12	BOLT, 5/16-18 X 3/4 GD5
6	5025477	3	WASHER, BLADE BOLT, 9/16" F436, CZ
7	5025320X14	3	BOLT, 5/8-11 X 1-3/4 GR8 -(Torque to 120 ft.lbs (163 Nm))
8	5401271A	1	WELD, DISCHARGE BAFFLE, 48" - BLK -(Standard Deck)
9	5101986S	1	BLADES, SET OF THREE (3); 16.25 X.25 X 2.5, 1 X 3.5
10	5023156	12	BOLT, 5/16-18 X 1-1/4" FLANGE
11	5025392	20	NUT, 5/16-18 HEX NYLOCK FLANGE
12	5061095	3	ASSM, SPINDLE, LOW PROFILE -(Nut and Washer sold seperately)
13A	5600519	1	DECK SHELL W/ DECALS 48" DECK, S50X -(ICD Deck - S/N: 2016897065 & Below)
13B	5600230	1	DECK SHELL W/DECALS 48 S50X -(Standard Deck - S/N: 2015340634 & Below)
13B	5600507	1	DECK SHELL W/ DECALS 48" DECK, S50X -(Standard Deck - S/N: 2015340635 & Above)
14	-----	1	ORDER INDIVIDUAL PIECES TO SERVICE DISCHARGE CHUTE COMPONENTS.
15	5405520A	1	PLATE, SUPPORT, 48 - BLK -(ICD Deck)
16	5042555	1	ROD, BRAKE LINKAGE
17	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
18	5402404	1	CHUTE, RUBBER, BENT -(S/N: 2017094785 & Below)
19	5025013X12	2	BOLT, 3/8-16 X 1-1/2" GD5 CZ -(S/N: 2017094785 & Below)
20	5402362A	1	SUPPORT,DISCHARGE CHUTE - BLK -(S/N: 2017094785 & Below)
21A	5407842A	1	WELD, FRAME, CHUTE, 44/48/52 - BLK -(ICD Deck - S/N: 2017094785 & Below)
21B	5413404A	1	WELD, MOUNT, DISCHARGE CHUTE - BLK -(Standard Deck)
22	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
23	5025145X6	2	BOLT, 5/16"-18 CARRIAGE, 3/4"
24	5025145X8	1	BOLT, 5/16"-18 CARRIAGE, 1"
25	5401344A	1	PLATE, DEFLECTOR - BLK -(ICD Deck)
26	5102134	1	FLAP, RUBBER, 48" -(ICD Deck)
27	5101004	1	SAFETY WALK, 4.00 X 7.50
28	-----	1	SCREW, 5/16-18X0.750, GR5, WHIZ-LOCK, ZC
29	5413403A	1	WELD, MOUNT, DISCHARGE CHUTE - BLK -(S/N: 2017094786 & Above)
30	5413401A	1	SUPPORT, DISCHARGE CHUTE - BLK -(S/N: 2017094786 & Above)
31	5025146X12	2	BOLT, 3/8-16 X 1-1/2, CARRIAGE, GD5, CZ -(S/N: 2017094786 & Above)
32	5413498	1	CHUTE, RUBBER DISCHARGE CHUTE -(S/N: 2017094786 & Above)(5104441)
33	5600873	1	DECK SHELL W/DECALS, 48, S50XT-DOM -(ICD Deck - S/N: 2016897065 & Above)(5413096D)

48" Mower Deck - Pulleys, Belt & Idler Arm S/N: 2016897066 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

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48" Mower Deck - Pulleys, Belt & Idler Arm S/N: 2016897066 & Above

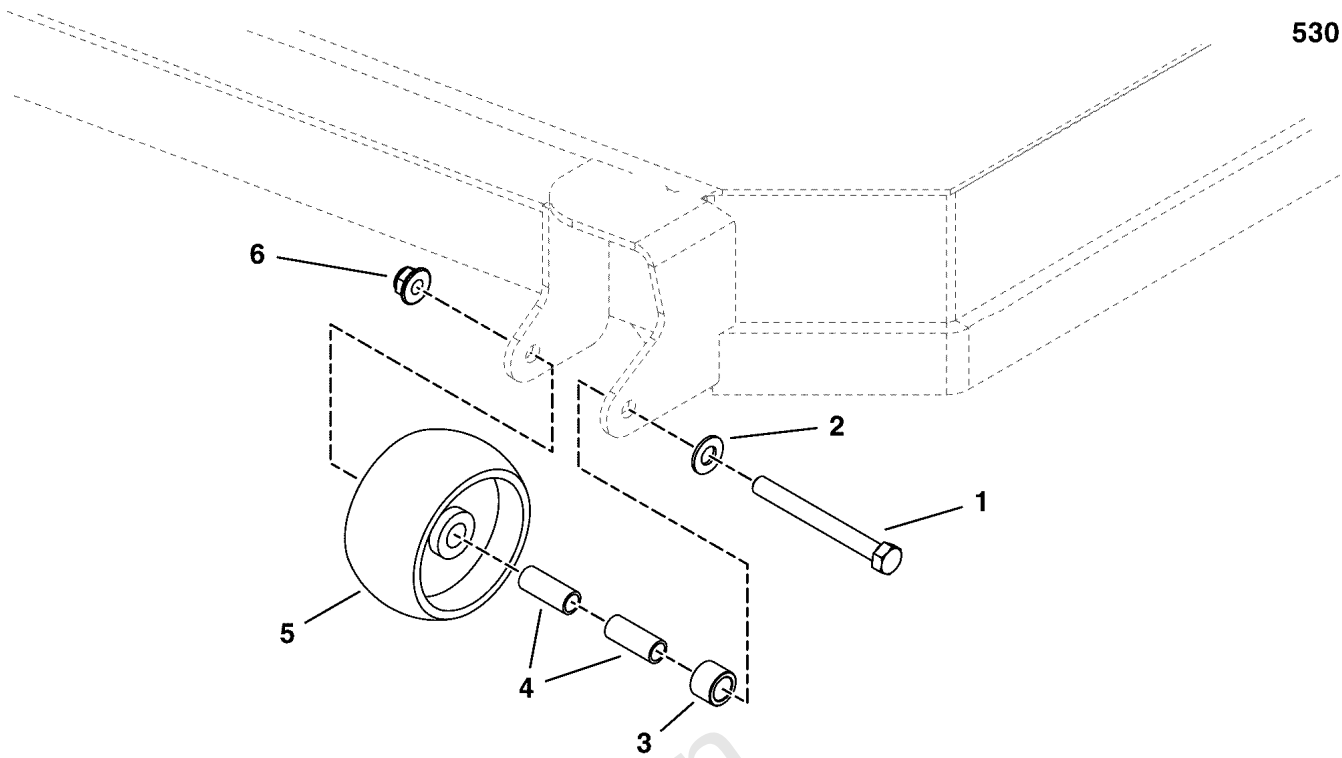
REF NO	PART NO	QTY	DESCRIPTION
1	5413128A	1	WELD, IDLER ARM, CUTTER DECKS - BLK
2	5104383	2	BEARING, 6203-1/2", SEALED
3	5104381	1	SPACER, .510 X .750 X 1.749, CZ
4	5104379	2	SPACER, IDLER ARM, 1/2 X 2.25
5	-----	1	USE 5104716 PULLEY + 5105145 SHIELD
6	5025017X20	1	BOLT, 1/2-13 X 2-1/2" GD5 CZ
7	5101162	1	SPACER, .52 X 1.00 X .56, PM, CZ
8	5025013X28	1	BOLT, 3/8-16 X 3-1/2" GD5 CZ
9	5044933	1	SPACER, .39 X .75 X .38, PM, CZ
10	5025165	1	WASHER-3/8 FENDER
11	5025429	1	EYEBOLT, 3/8-16 X 4, 2.13THRD, .75EYE, C
12	5104166	1	SPRING, EXT, 1.5ODX12.25X.234WIRE BLK -(Coil-to-coil spring length: 12")
13	5101103	3	SHIELD, PULLEY BEARING, CZ
14	5025396	4	NUT, Hex Flange, Nylock, 1/2-13
15	5025017X36	1	BOLT, 1/2-13 X 4-1/2 GD5 CZ
16	-----	2	Replace with: Pulley #5104717 & Debris Shield #5105145
17	5047142	2	SPACER, .52 X 1.25 X .70, PM, CZ
18	5044913	1	WASHER, .53 X 1.50 X .25
19	5023175	3	PULLEY, 5.540OB X .985ID, SINGLE B-SEC
20	5025017X22	2	BOLT, 1/2-13 X 2-3/4 GD5 CZ
21	5050407X10	3	KEY, 1/4 SQ X 1-1/4
22	5025406	3	WASHER, 3/4 BELLEVILLE
23	5025405	3	NUT, 3/4-16 HEX
24	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
25	5025034	1	NUT, 3/8-16 HEX
26	5104064	1	BELT, 5V, 145.40"EL, LRG ARAMID, WRP, RC

48" Mower Deck - Rollers

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

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48" Mower Deck - Rollers

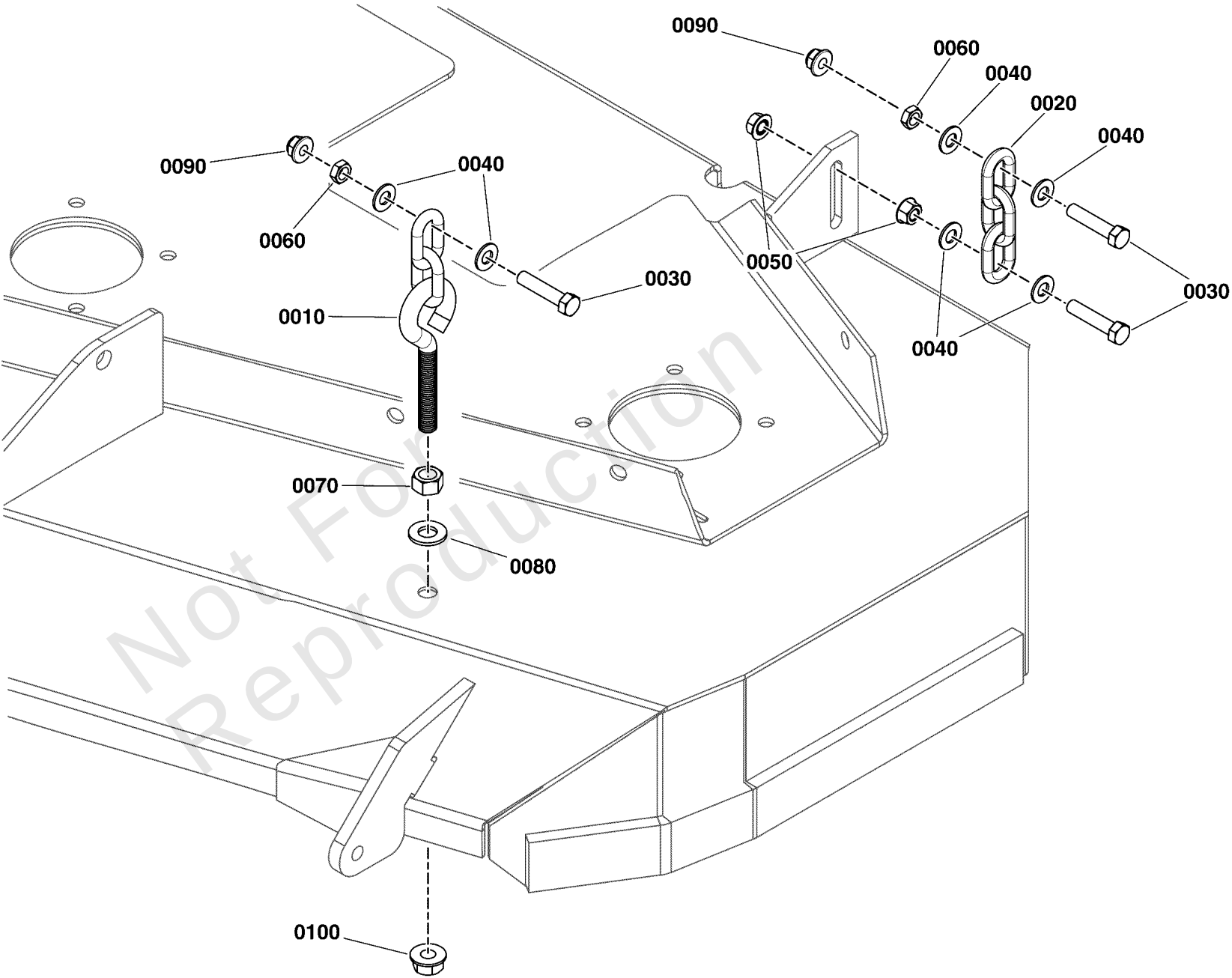
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1	5025013X28	1	BOLT, 3/8-16 X 3-1/2" GD5 CZ
2	5025156	1	WASHER, 3/8 SAE
3	5047027	1	SPACER, .51 X .75 X .56, CZ
4	5041931	2	SPACER, .38 X .50 X 1.25, CZ
5	1714760	1	WHEEL- 2.00 WIDE 3.88 DIA 0.531ID POLY
6	5025394	1	NUT, 3/8-16 HEX NYLOCK FLANGE

Not For Reproduction

48" Mower Deck Group - Hanger Chains

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373



48" Mower Deck Group - Hanger Chains

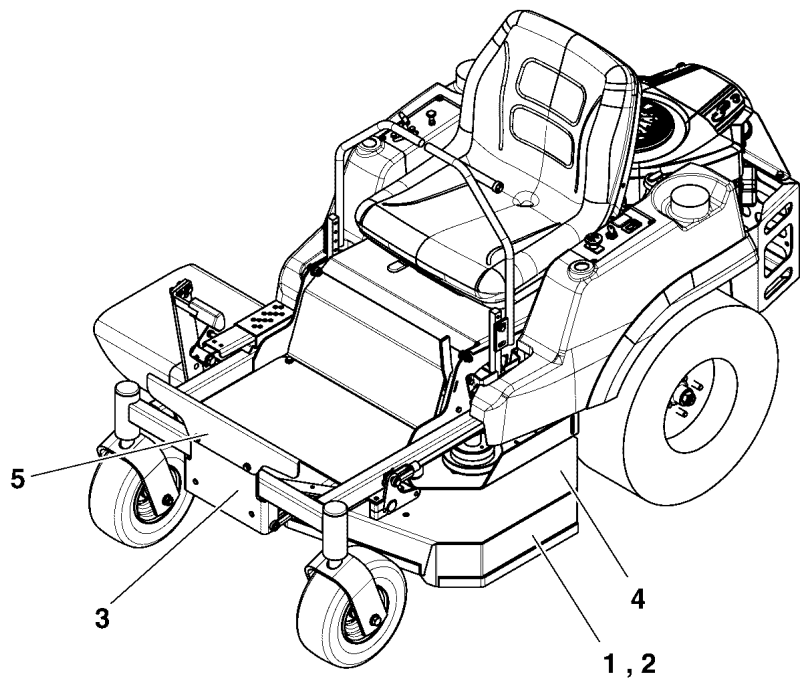
REF NO	PART NO	QTY	DESCRIPTION
0010	5104309	2	HANGER, FRONT DECK-2LINK, 5.5" EB
0020	5050878X3	2	CHAIN, 5/16" GD30, 3 LINKS
0030	5025013X14	6	BOLT, 3/8-16 X 1-3/4" GD5 CZ
0040	5025156	12	WASHER, 3/8 SAE
0050	5025128	4	NUT, 3/8-16 Hex Large Serrated Flange
0060	5025084	4	NUT, 3/8-16 HEX JAM
0070	5025038	2	NUT, 1/2-13 HEX, YZ
0080	5025158	2	WASHER, 1/2 SAE
0090	5025394	4	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0100	5025396	2	NUT, Hex Flange, Nylock, 1/2-13

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

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

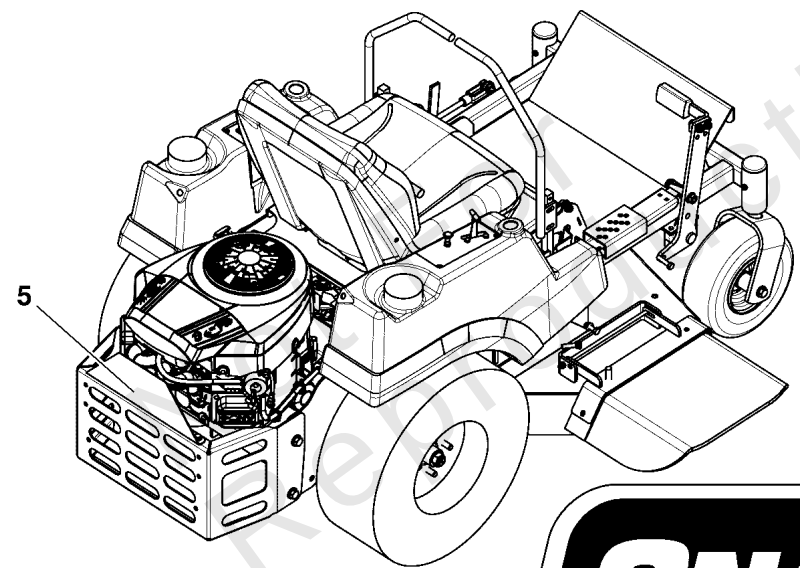
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1 ——— 36"
2 ——— 48"

3 ——— **S50xt**
PROFESSIONAL

4 ——— **ICD**
CUTTING SYSTEM



5 ——— **SNAPPER PRO**

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	5104018	1	DECAL, S50XT (2014)
4	5102210	1	DECAL, iCD CUTTING SYSTEM -(48" MODELS ONLY)
5	5104023	2	DECAL, SNAPPER PRO LOGO, SMALL

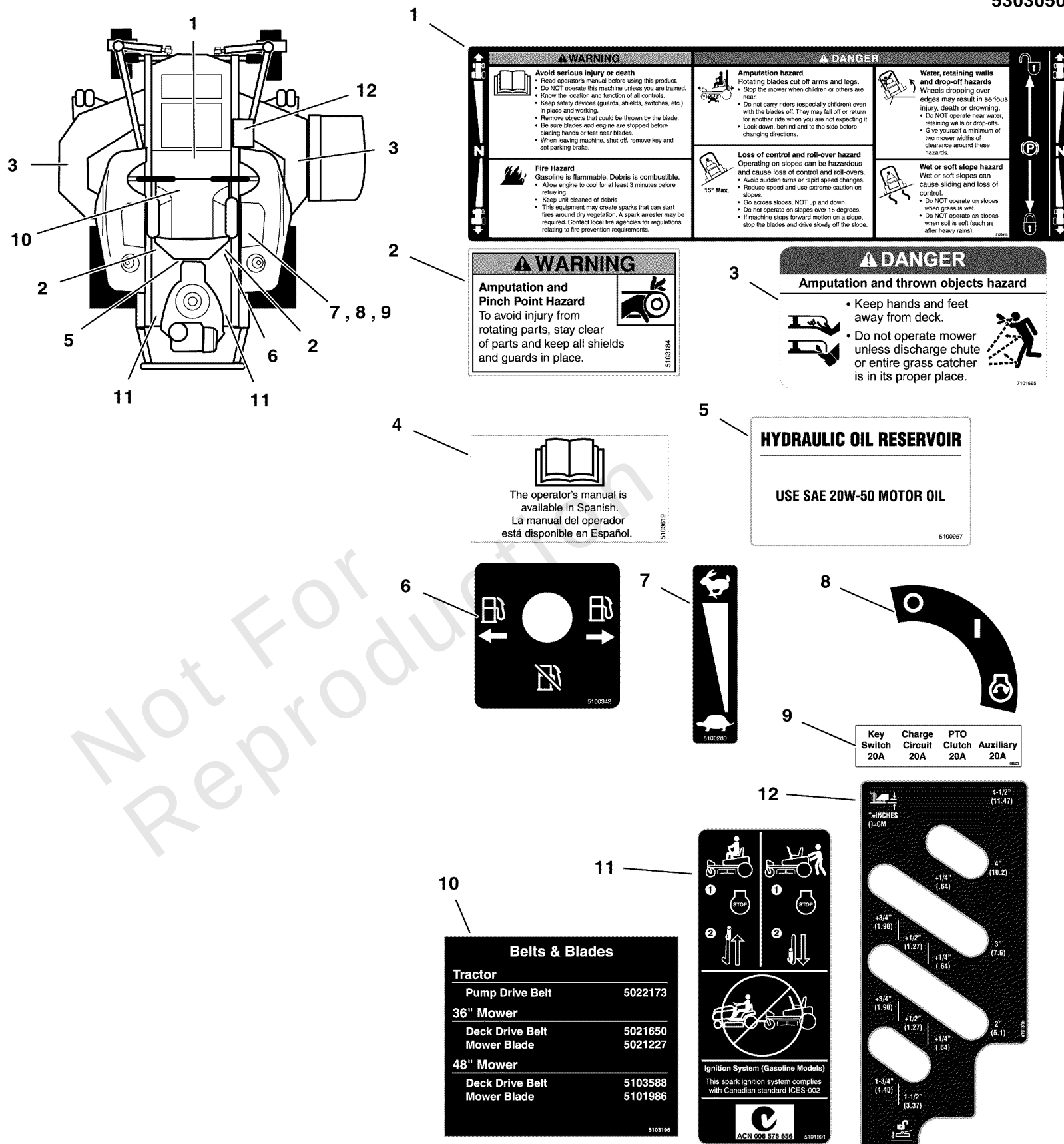
Not For Reproduction

Decal Group - Safety & Operation

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Mfg. No: 5901373

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Decal Group - Safety & Operation

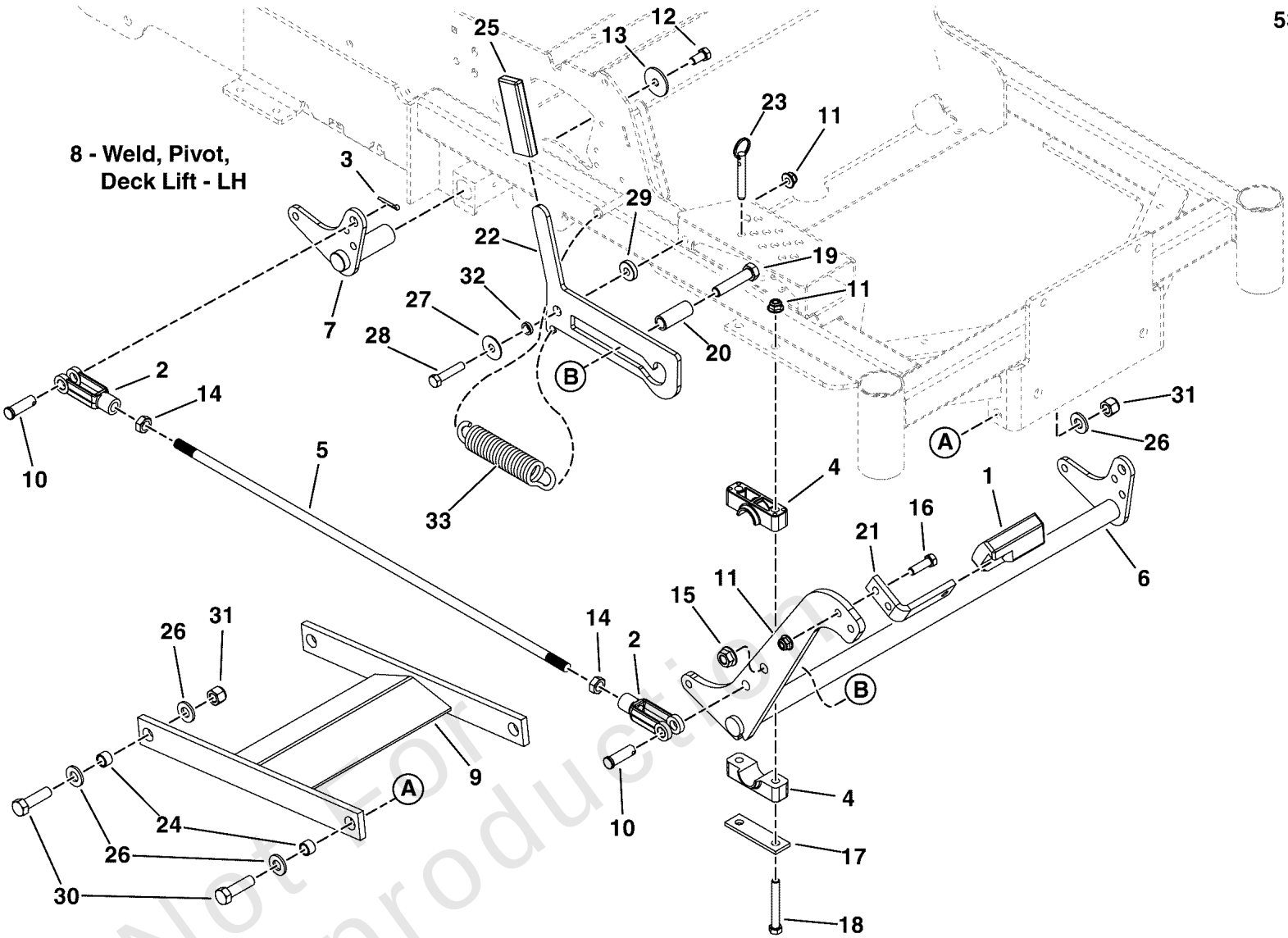
REF NO	PART NO	QTY	DESCRIPTION
1	5103595	1	DECAL, MAIN SAFETY
2	5103184	2	DECAL, WARNING, HAND IN BELT, ENG ONLY
3	7101665	2	DECAL, DANGER DO NOT OPERATE W/O DEFLECT
4	5103619	1	DECAL, MANUAL AVAILABLE IN SPANISH
5	5100957	1	DECAL, HYDRAULIC OIL, SAE 20W50
6	5100342	1	DECAL, FUEL VALVE -(Models equipped with two fuel tanks only)
7	5100280	1	DECAL, THROTTLE CONTROL
8	5048970	1	DECAL, IGNITION SWITCH
9	5046503	1	DECAL, FUSE LOCATION -(S/N: 2016499706 & Below)
10	5103196	1	DECAL, BELT & BLADE, S50XT ICD
11	5101991	2	DECAL, TRANSAXLE RELEASE
12	5101315	1	DECAL, CUT HEIGHT, S50XT

Deck Lift Group (S/N: 2014755821 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

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Deck Lift Group (S/N: 2014755821 & Above)

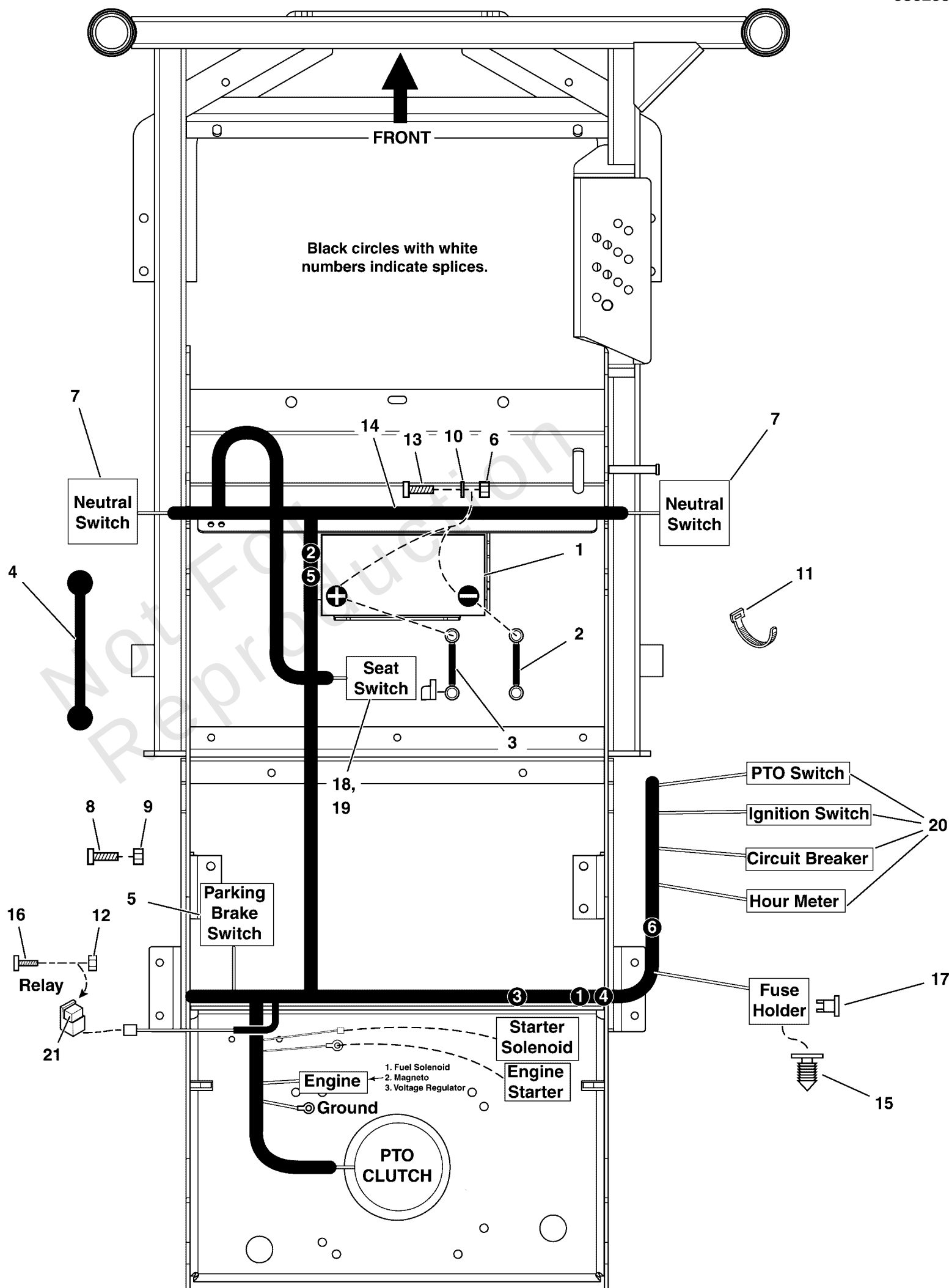
REF NO	PART NO	QTY	DESCRIPTION
1	5104262	1	PEDAL, Rubber
2	5023174	4	CLEVIS, 1/2-20, STEEL, CLEAR ZINC
3	5025210	4	3/32 X 1-5/8 HAIR PIN CLIP
4	5100634	4	PIVOT BLOCK, PLASTIC
5	5101117	2	ROD, DECK LIFT, SNAPPER PRO
6	5407892D	1	WELD, FRONT DECK PIVOT - RED
7	5402956D	1	WELD, PIVOT DECK LIFT, RH - RED
8	5402957D	1	WELD, PIVOT, DECK LIFT, LH - RED -(Not illustrated)
9	5407830A	1	WELD, PULLER BAR - BLK
10	5025328X12	4	PIN, CLEVIS, 1/2 X 1-1/2, PLATED
11	5025394	7	NUT, 3/8 - 16 HEX NYLOCK FLANGE
12	5025443	2	BOLT, 3/8-16 X 3/4, PLT W/PATCH
13	5100548	2	WASHER, .390 X 1.50 X .109, YZ
14	5025089	4	NUT, 1/2-20 Hex Jam
15	5025396	1	NUT, Hex Flange, Nylock, 1/2-13
16	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
17	5403925A	2	PLATE, PIVOT BLOCK SUPPORT - BLK
18	5025013X22	4	BOLT, 3/8-16 X 2-3/4" GD5 CZ
19	5025017X36	1	BOLT, 1/2-13 X 4-1/2" GD5 YZ
20	5102545	1	SPACER, .53 X .73 X 3.38, CZ
21	5061569A	1	PEDAL, FOOT - BLK
22	5406623D	1	PLATE, DECK TRANSPORT LEVER - RED
23	5103021	1	HITCH PIN, 3/8 X 2-1/2, COTTERLESS, CZ
24	5020870	4	INSERT, Bearing
25	5025510	1	GRIP, FOAM, 1/4 X 1 X 4.1
26	5025440	8	WASHER, 1/2" GD9 YZ
27	5025165	1	WASHER, 3/8" Fender
28	5025013X14	1	BOLT, 3/8-16 X 1-3/4" GD5 CZ
29	5044960	1	SPACER, .39 X 1.00 X .25, PM, CZ
30	5025018X14	4	BOLT, 1/2-20 X 1-3/4" GD8 CZ
31	5025098	4	NUT, Hex, Nylon Lock, 1/2-20
32	5041930	1	SPACER, .38 X .50 X .27, CZ
33	5102692	1	SPRING, EXTENTION, .50 OD X 4.12 FL

Electrical Group - Kawasaki Models (S/N: 2016499707 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

5302833



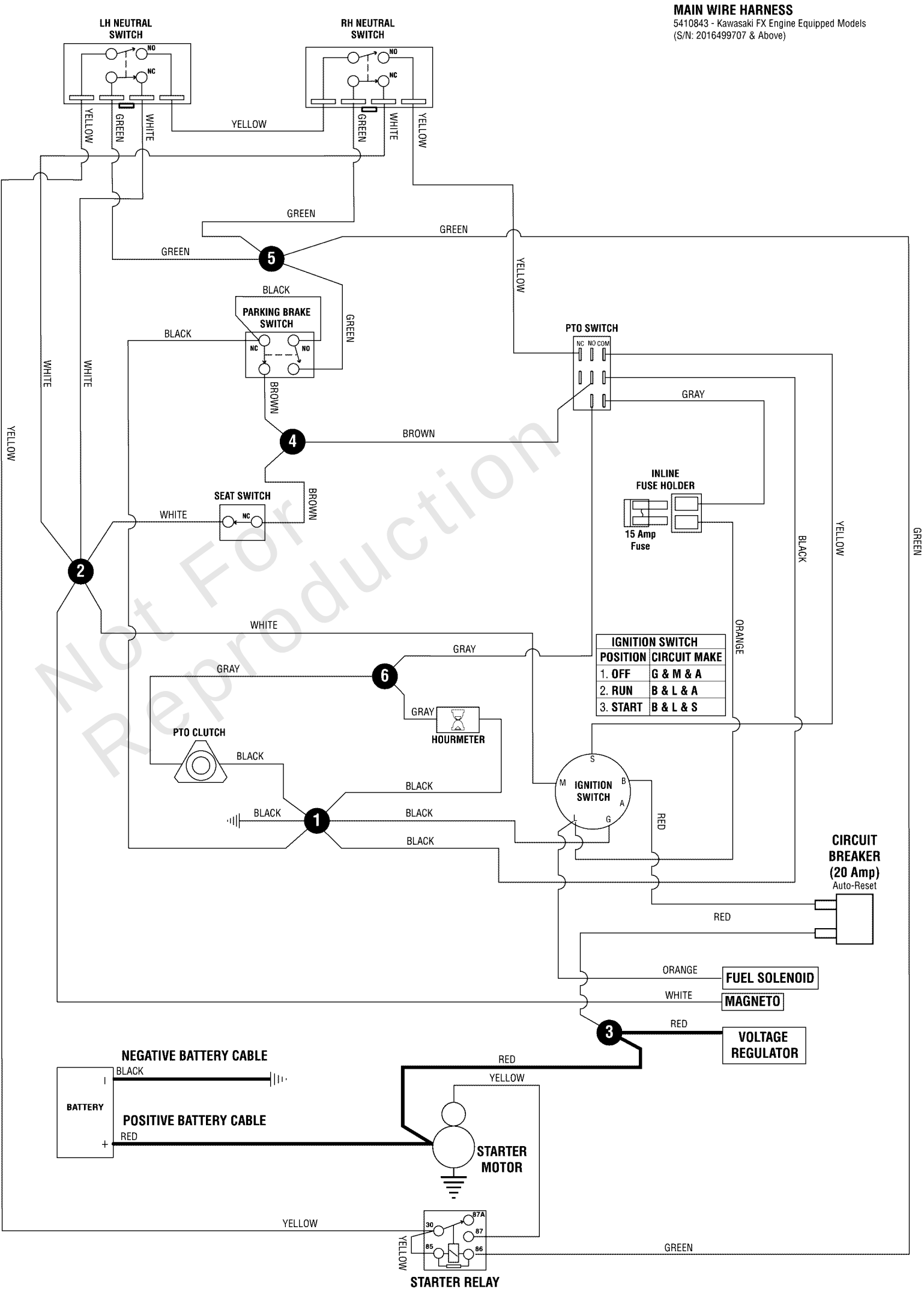
Electrical Group - Kawasaki Models (S/N: 2016499707 & Above)

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	BATTERY, CE, 12 VOLT 340 CCA - 11U1L
2	5101396	1	CABLE, BATTERY, NEG, 30, 1/4-5/16
3	5044876	1	BATTERY CABLE, POS, 35, 1/4-5/16
4	1722009	1	STRAP-BLACK RUBB
5	1717050	2	SWITCH, PLUNGER, N.O./N.C.
6	5025126	5	NUT, 1/4-20 HEX SERR. FLANGE
7	5101280	2	SWITCH, LOW PROF, NC/NO
8	5025179X4	4	SCREW- #10-24 X 1/2 ROUND PHILLIPS
9	5025029	4	NUT, #10-24 HEX
10	5025154	2	WASHER, 1/4 SAE
11	5021029	8	TIE, SELF-LOCKING, 12"
12	5025271	1	NUT, #10-24 HEX NYLON LOCK
13	-----	2	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
14	5410843	1	WIRE HARNESS, KAWI FX, S50XT
15	5103761	1	FIR TREE MOUNT, PACKARD
16	5025179X6	1	SCREW, #10-24 X 3/4 ROUND PHILLIPS
17	5101935	1	FUSE, ATO-15 (15 AMP)(SV)
18	5100540	1	SWITCH, NC, W/ BOLT-IN BASE
19	5100541	1	SWITCH, NC, W/ TWIST-IN BASE
20	-----	1	SEE INSTRUMENT CONTROL PANEL GROUP
21	5021766	1	RELAY, 12V, 40A (SV)

Electrical Schematic - Charging Circuit - Kawasaki S/N: 2016499707 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373



Electrical Schematic - Charging Circuit - Kawasaki S/N: 2016499707 & Above

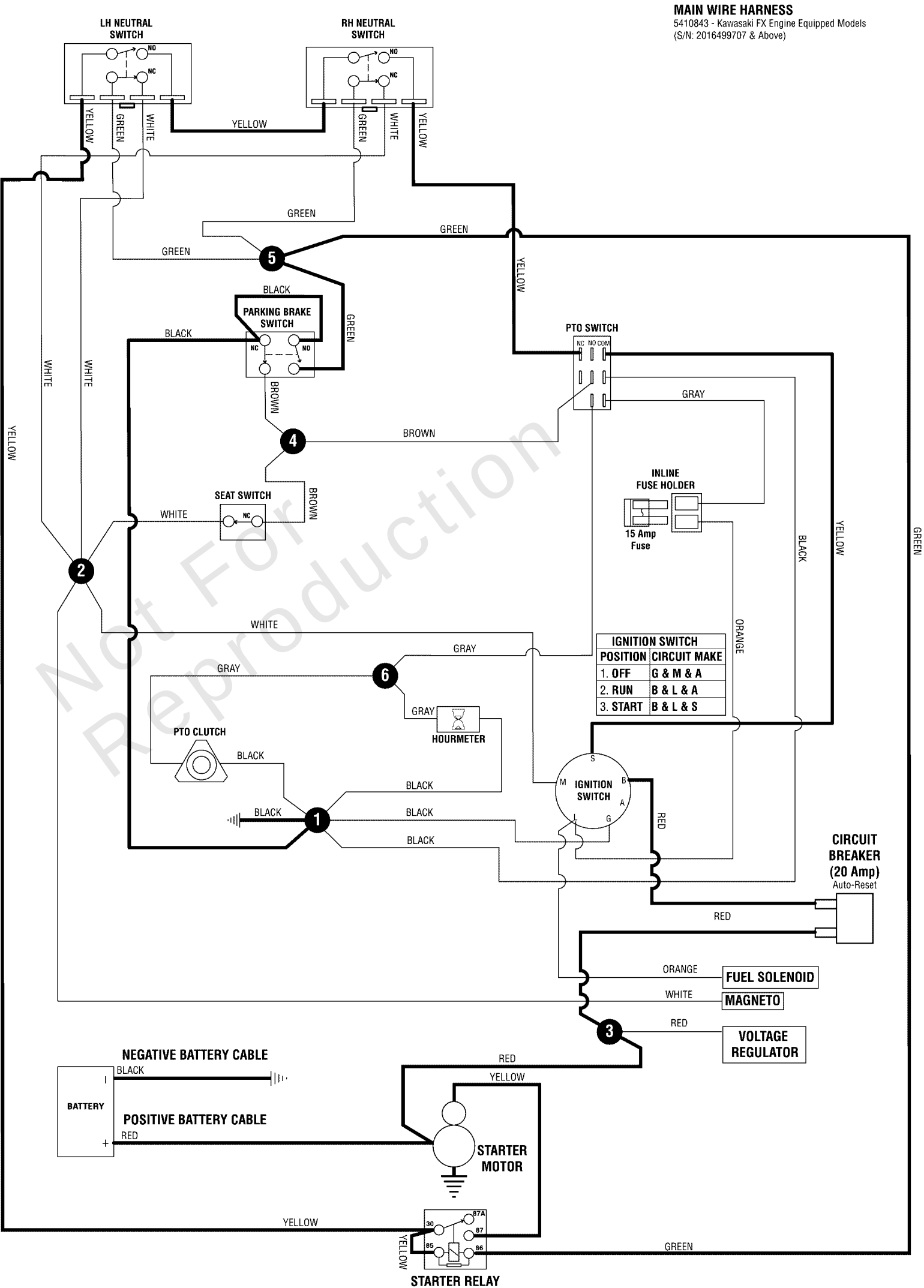
REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Electrical Schematic - Cranking Circuit - Kawasaki S/N: 2016499707 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373



Electrical Schematic - Cranking Circuit - Kawasaki S/N: 2016499707 & Above

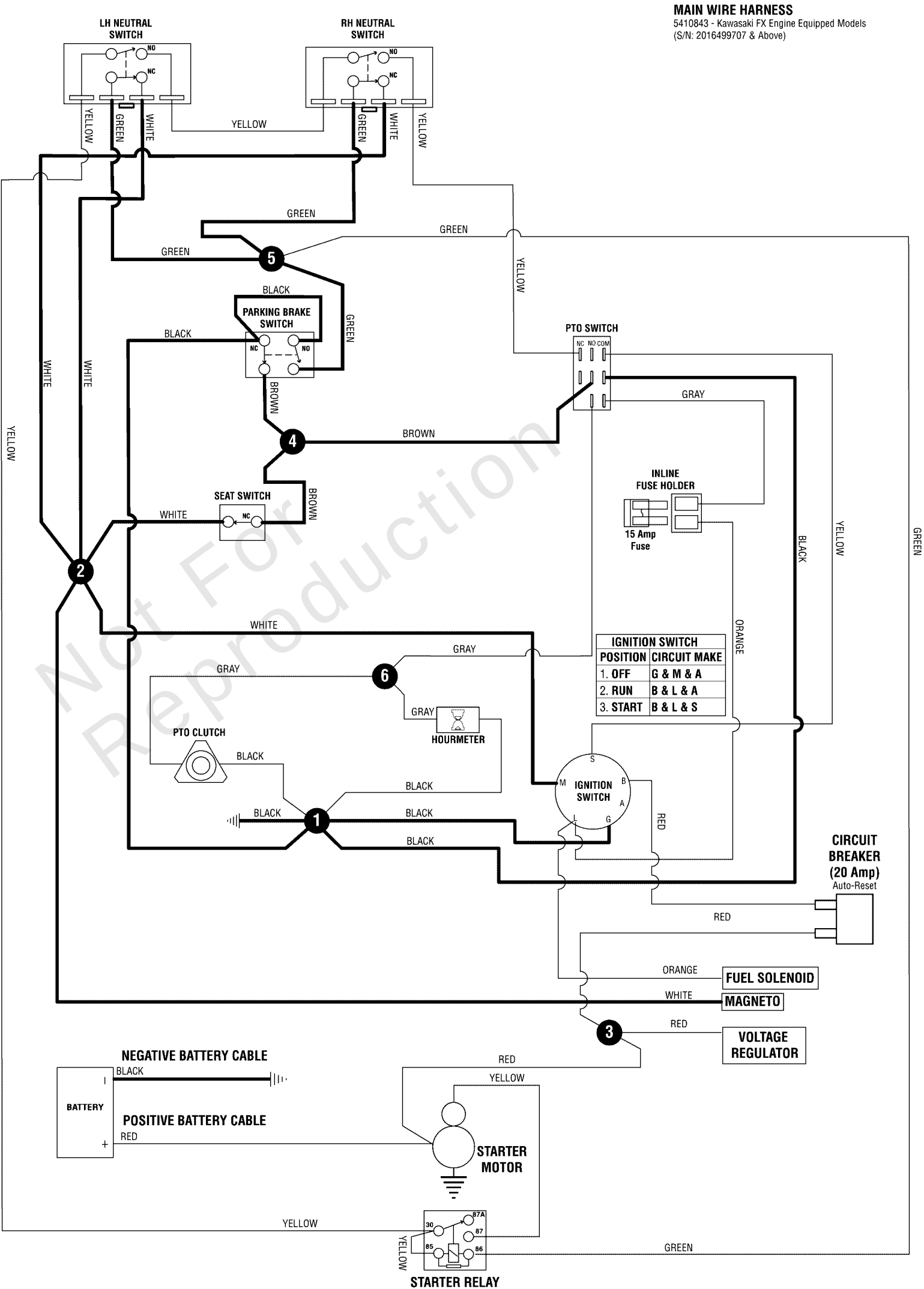
REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Electrical Schematic - Ign Ground Circuit/Op Pres - Kawasaki S/N: 2016499707 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373



Electrical Schematic - Ign Ground Circuit/Op Pres - Kawasaki S/N: 2016499707 & Above

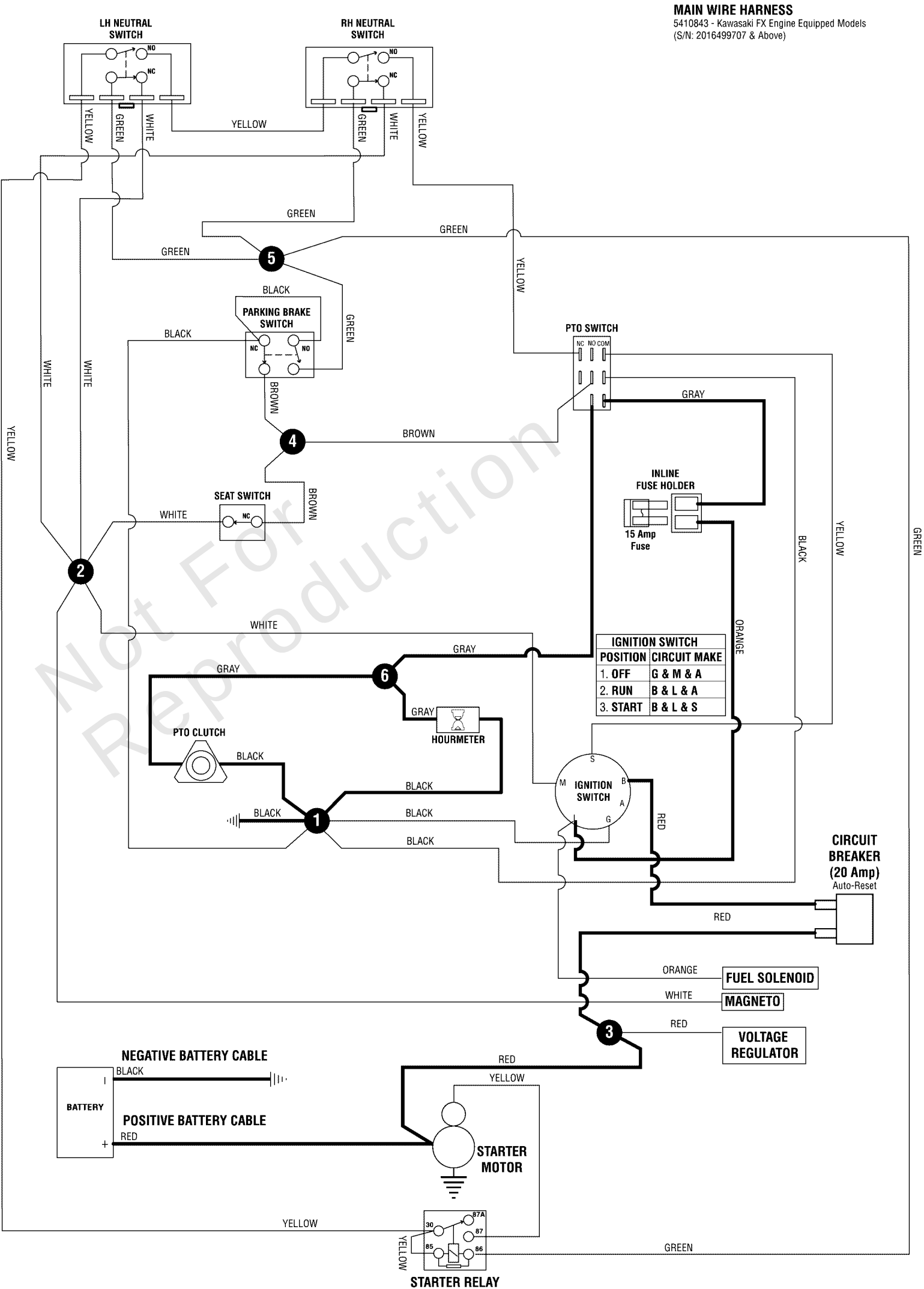
REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Electrical Schematic - PTO Clutch Circuit - Kawasaki S/N: 2016499707 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

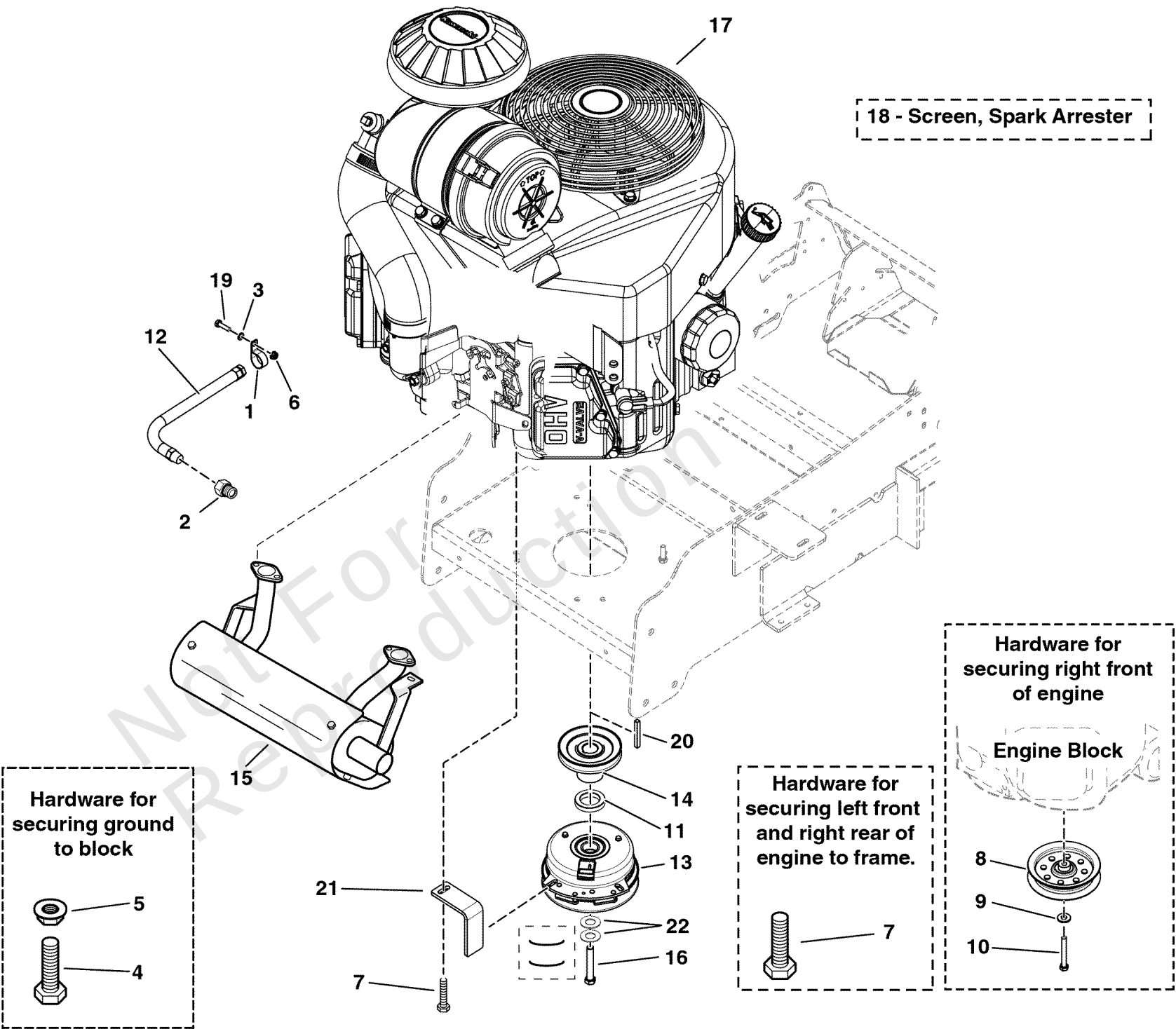


Electrical Schematic - PTO Clutch Circuit - Kawasaki S/N: 2016499707 & Above

REF NO	PART NO	QTY	DESCRIPTION
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5302953



Engine & PTO Group - Kawasaki

REF NO	PART NO	QTY	DESCRIPTION
1	5021500	1	CLAMP, VINYL INSULATED
2	5022234	1	ADAPTER, OIL DRAIN
3	5025154	1	WASHER, 1/4 SAE
4	5025249	1	BOLT, M8-1.25 X 20 MM GD 8.8
5	5025355	1	NUT, M8-1.25 SERR FLANGE, CZ
6	5025391	1	NUT, 1/4-20 HEX NYLOCK FLANGE
7	5025532	3	BOLT,HEX FLG,SER GD5 3/8-16X1-1/4PACH CZ
8	-----	1	SEE PUMP DRIVE GROUP
9	-----	1	SEE PUMP DRIVE GROUP
10	-----	1	SEE PUMP DRIVE GROUP
11	5048135	1	SPACER, 1.13 X 1.75 X .62
12	5048681	1	HOSE, OIL DRAIN
13	5105090	1	* CLUTCH, 5218-134, WARNER
14	5101338	1	PULLEY, PUMP DRIVE, 4.857 OB X 1-1/8
15	5102109	1	MUFFLER, KAWASAKI
16	5102864	1	BOLT, CRANKSHAFT, 7/16"X2-1/2
17	-----	1	ENGINE, KAWASAKI
18	-----	1	NO LONGER AVAILABLE - SCREEN, SPARK ARRESTER -(SV)
19	5025010X8	1	BOLT, 1/4-20 X 1" GD5 CZ
20	5050407X8	1	KEY, 1/4 SQ X 1
21	5404967A	1	ANCHOR, CLUTCH - BLK
22	5025585	2	BELLEVILLE WASHER 1.1875 X .442 X .089 -(S/N: 2015745414 & Above)

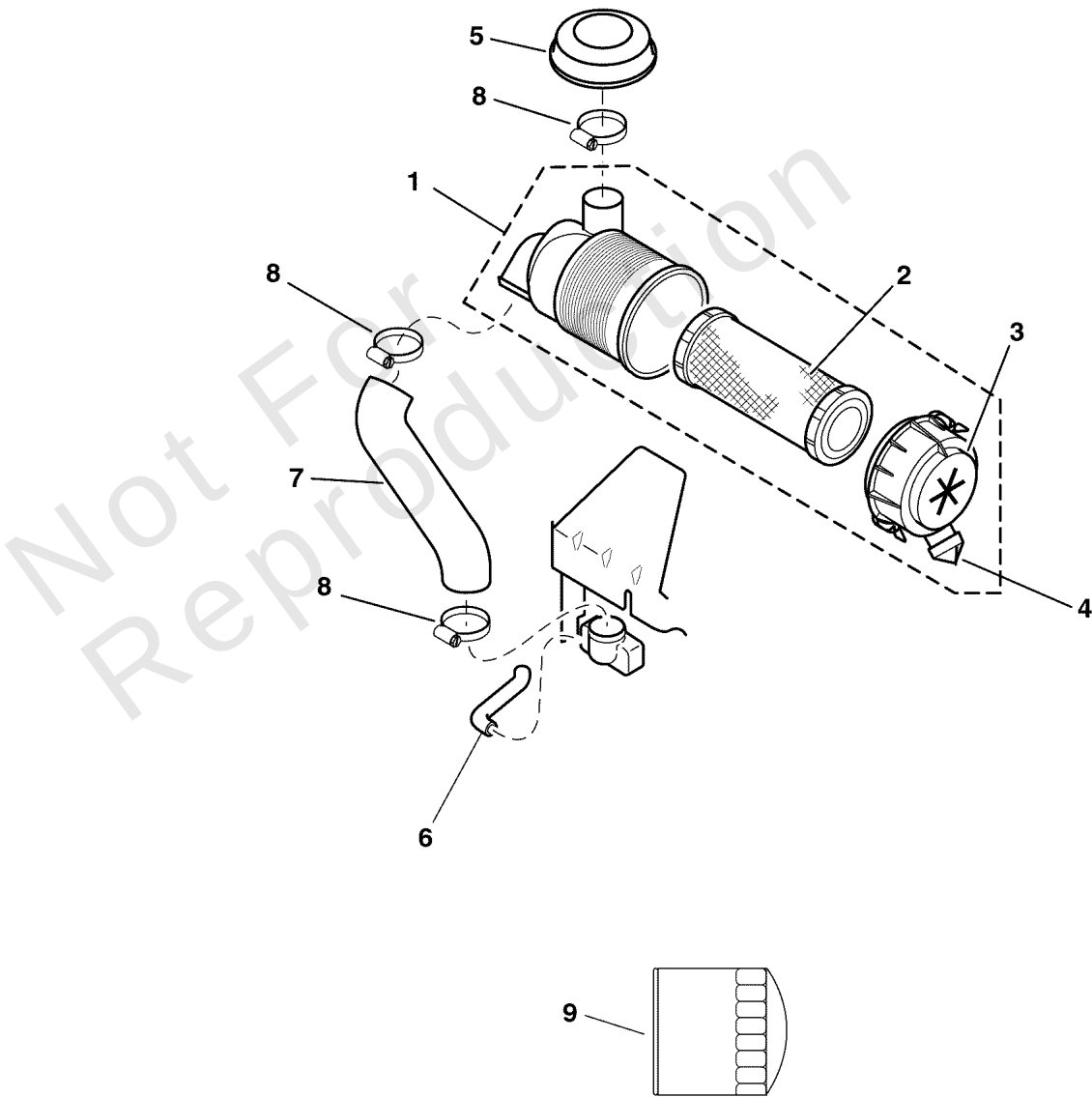
Footnotes:

* For models S/N: 2015375705 & Below, when replacing the clutch, the jumper harness (#5403576) is required.

0002KAWIFX

Fits Kawasaki Engine Models Numbers:

FX481V
FX541V
FX600V



Engine Service Parts - Kawasaki (FX481V - FX600V)

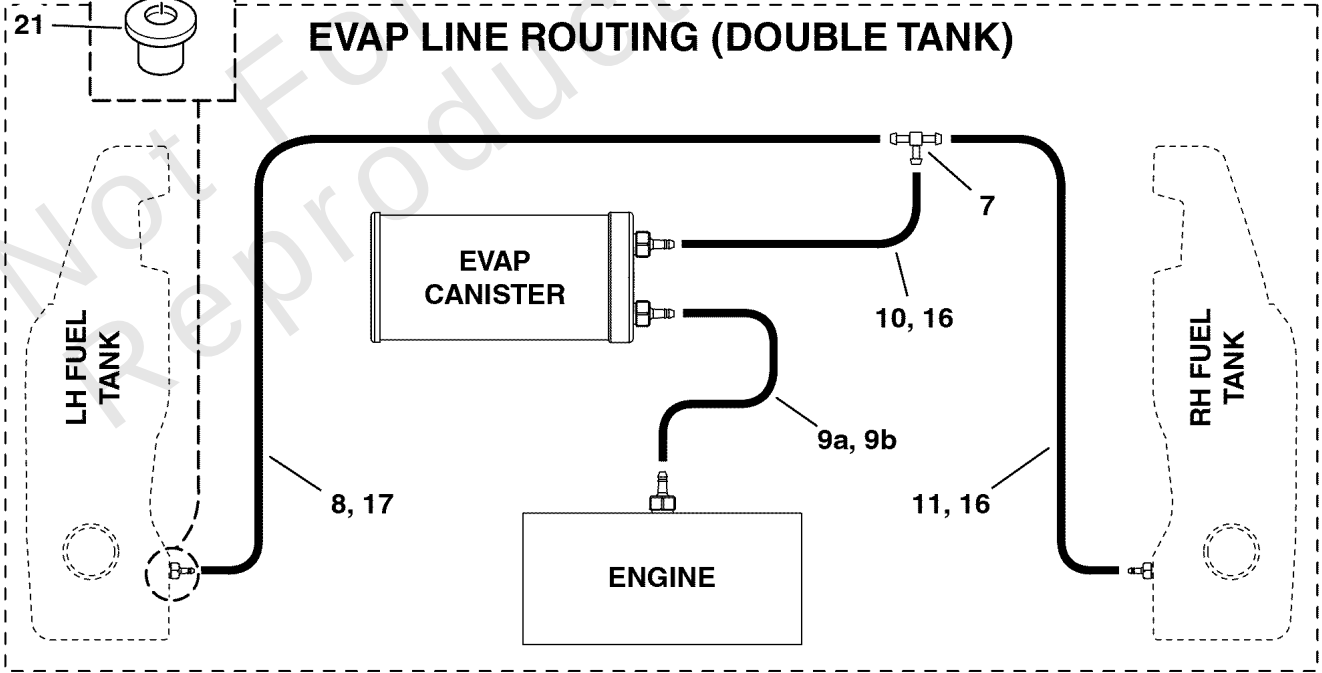
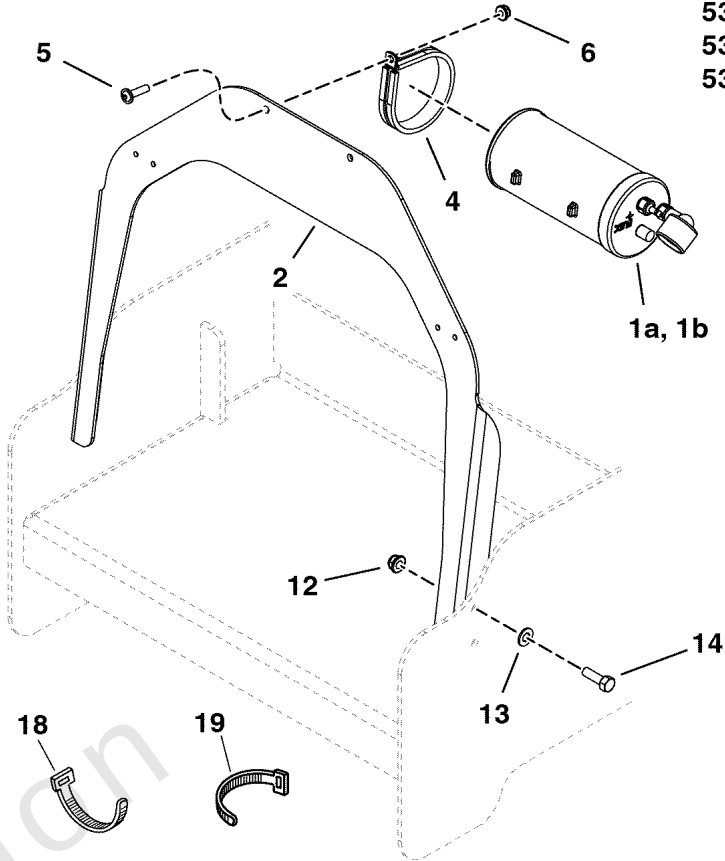
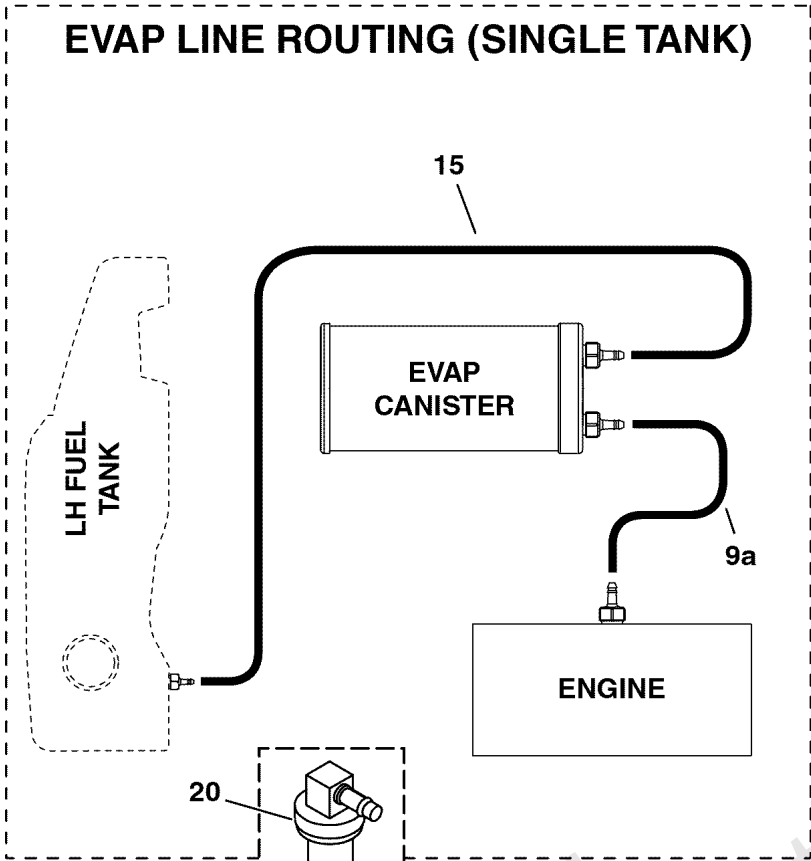
REF NO	PART NO	QTY	DESCRIPTION
1	5102151X4	1	AIR CLEANER ASSY, FX541V/FX600V -(11010-7031)
2	5102151X3	1	AIR FILTER, 16-20HP KAWASAKI -(11013-7048)
3	5102151X5	1	END CAP, FX541V/FX600V -(11011-7058)
4	5102126X8	1	DUST VALVE, AIR FILTR, 22, 24 & 26HP KAWASAKI -(11065-7031)
5	5100255	1	RAIN CAP -(11065-7026)
6	5102126X9	1	BREATHER TUBE, AIR FILTR, 22, 24 & 26HP KAWA -(92192-7146)
7	5102151X8	1	TUBE, A/C -(92192-7154)
8	5100256	3	CLAMP -(92171-7010)
9	5102278X1	1	FILTER, OIL, KAWA FS, FX, FR 603 & 726CC ENG -(49065-7007)

EVAP Canister Group - CAL Models (S/N: All); Other Models (S/N: 2016816349 & Below)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

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EVAP Canister Group - CAL Models (S/N: All); Other Models (S/N: 2016816349 & Below)

REF NO	PART NO	QTY	DESCRIPTION
1a	313036	1	CNSTR, CARB, 6 GAL -(Single Tank Models)
1b	313037	1	CNSTR, CARB, 9 GAL -(Double Tank Models)
2	5408222A	1	BRACKET, CARB CANISTER, S50X - BLK
3	-----	1	DECAL, EPA CERT, ZTRS -(Located on frame near Serial Tag)
4	5103055	2	CLAMP, 3" ID, CUSHIONED, STAINLESS
5	5025299X6	2	USE 5106757 - SCREW, 1/4-20X3/4, ZINC
6	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
7	5103062	1	FITTING, 3/16" TEE, BARB TYPE, HDPE -(Double Tank Models)
8	7700552X43	1	HOSE, VAPOR, 5MM ID, 43.00 LG -(Double Tank - Briggs & Stratton Models)
9a	7700552X36	1	HOSE, VAPOR, 5MM ID, 36.00 LG -(Briggs & Stratton Models)
9b	7700552X22P5	1	HOSE, VAPOR, 5MM ID, 22.5.00 LG -(Kawasaki Models)
10	7700552X5P5	1	HOSE, VAPOR, 5MM ID, 5.50 LG -(Double Tank - Briggs & Stratton Models)
11	7700552X11	1	HOSE, VAPOR, 5MM ID, 11.00 LG -(Double Tank - Briggs & Stratton Models)
12	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE
13	5025155	4	WASHER, 5/16" SAE
14	5025011X8	4	BOLT, 5/16-18 X 1 GD5 YZ
15	7700552X19	1	HOSE, VAPOR, 5MM ID, 19.00 LG -(Single Tank Models)
16	7700552X15	2	HOSE, VAPOR, 5MM ID, 15.00 LG -(Double Tank - Kawasaki Models)
17	7700552X39	1	HOSE, VAPOR, 5MM ID, 39.00 LG -(Double Tank - Kawasaki Models)
18	5021029	1	TIE, SELF-LOCKING, 12"
19	5021030	4	TIE, SELF-LOCKING, 6" -(Qty: 5 on Kawasaki Models)
20	770046	2	REMOTE VENT ASSEMBLY -(SV)
21	209043	2	GROMMET -(SV)

Fuel Tank Mount & Supply Group (Double Tank)

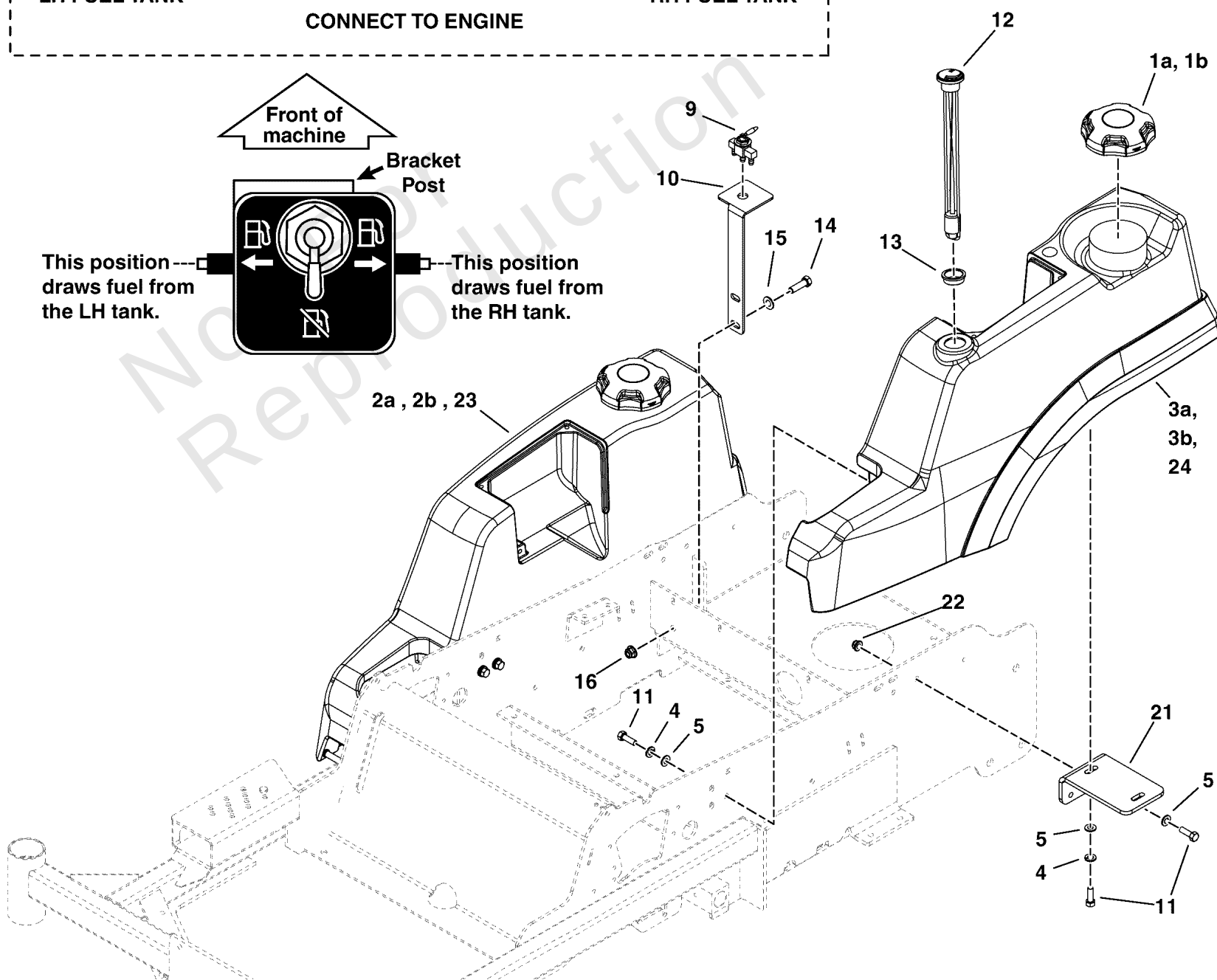
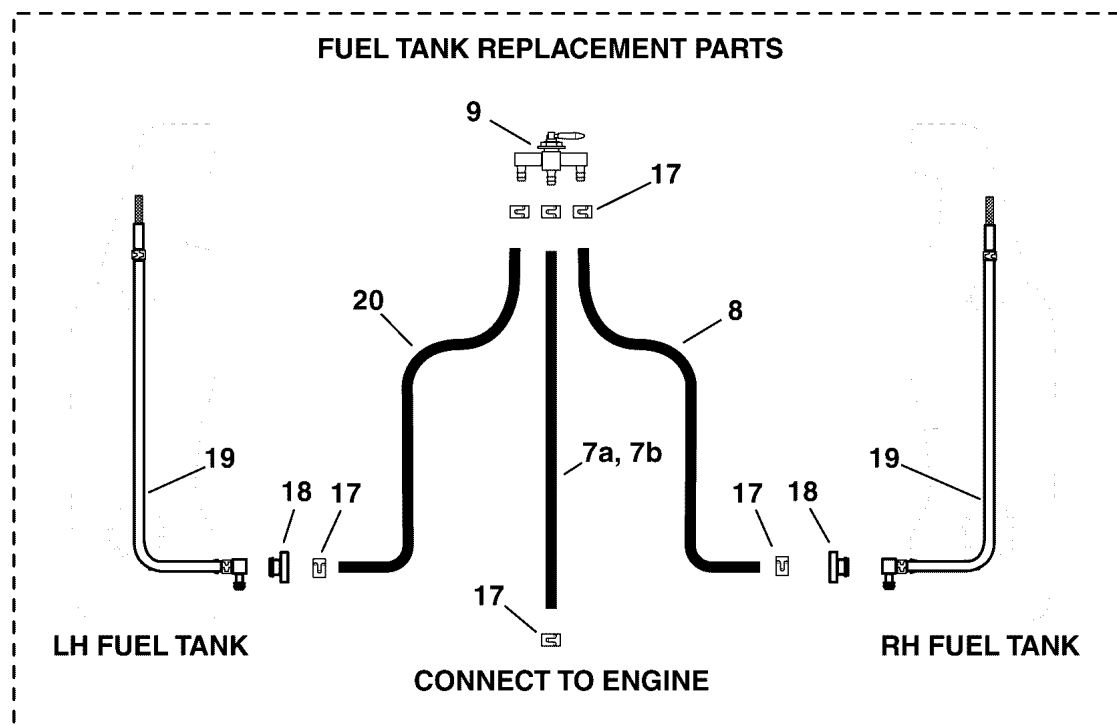
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

5300914

5302092

5302695



Fuel Tank Mount & Supply Group (Double Tank)

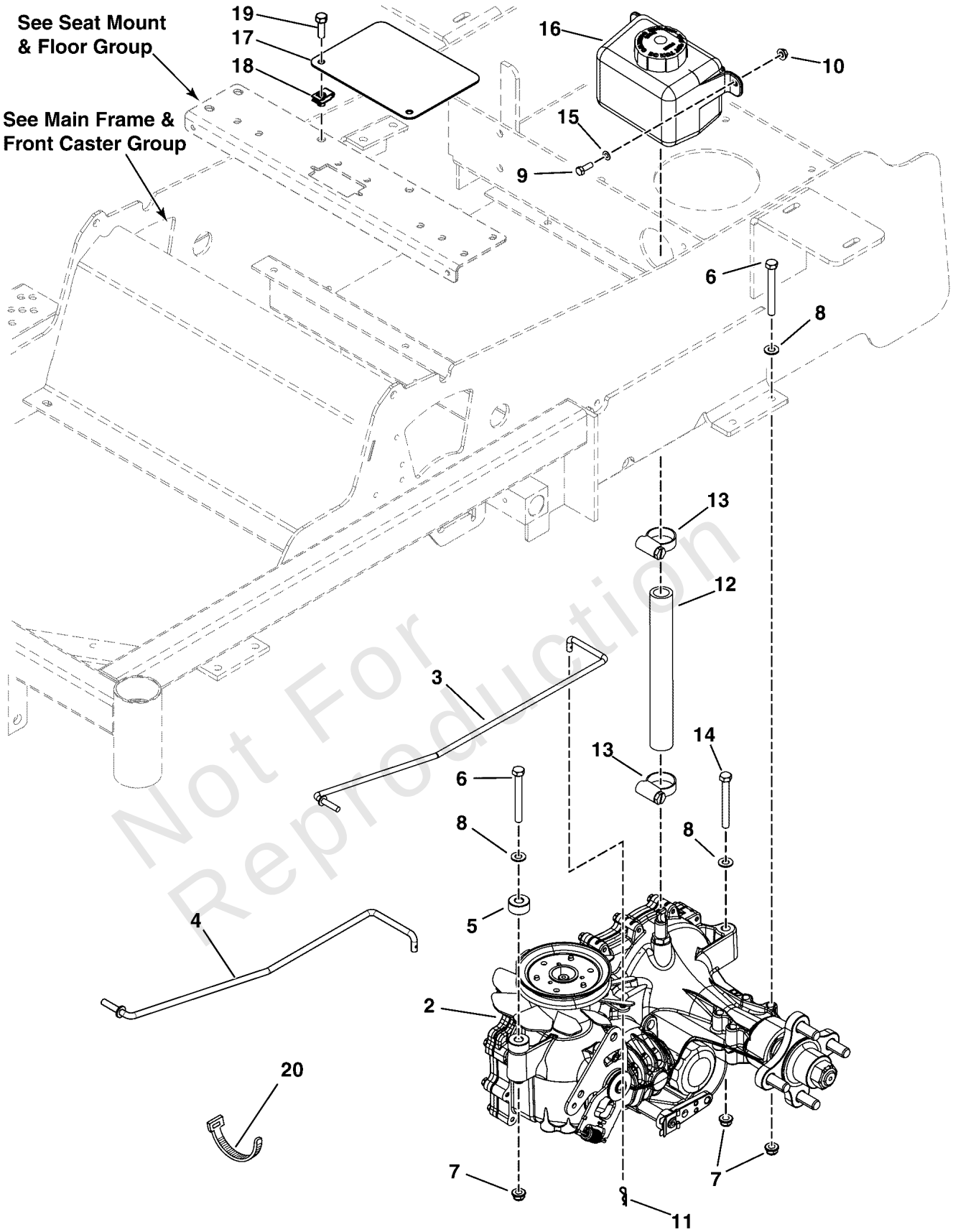
REF NO	PART NO	QTY	DESCRIPTION
1a	5103005	1	FUEL CAP, 3.5", MANAGED VENT OUT, 12" -(S/N: 2014923026 & Above)
1b	5101651	2	CAP, GASOLINE, VENTED -(S/N: 2014923025 & Below)
2a	5103960	1	TANK, FUEL, RH -(S/N: 2014923026 - 2016499706)
2b	5101368	1	TANK, FUEL, RH -(S/N: 2014923025 & Below)
3a	5103959	1	TANK, FUEL, LH -(S/N: 2014923026 - 2016499706)
3b	5101367	1	TANK, FUEL, LH -(S/N: 2014923025 & Below)
4	5025170	8	WASHER, 5/16 LOCK CZ
5	5025155	12	WASHER, 5/16" SAE -(S/N: 2014755820 & Below Qty. 8)
6	5023173	1	CLAMP, HOSE, 1.000 DIA. -(NOT SHOWN - FOR RH FUEL HOSE)
7a	5050831X6	1	HOSE, 6 IN -(All Briggs & Stratton / Kawasaki Models- S/N: 2015349639 & Below)
7b	5050831X16	1	HOSE, 16 IN -(S/N: 2015349640 & Above)
8	5050831X24	1	HOSE, 24 IN -(Kawasaki Models)
8	5050831X6	1	HOSE, 16 IN -(Briggs & Stratton Models)
9	5023358	1	VALVE, FUEL, STR. OUTLET
10	5401108A	1	BRACKET, FUEL VALVE, IS3000 - BLK
11	5025011X8	12	BOLT, 5/16-18 X 1 GD5 YZ -(S/N: 2014755820 & Below Qty. 8)
12	5101378	1	FUEL GAUGE, 10" -(SV)
13	5022917X1	1	GROMMET, FUEL GAUGE -(SV)
14	5025013X12	1	BOLT, 3/8-16 X 1-1/2" GD5 CZ
15	5025156	1	WASHER, 3/8 SAE
16	5025394	1	NUT, 3/8-16 HEX NYLOCK FLANGE
17	93807	6	CLAMP, HOSE, EXTERNAL, 1/2 - RED
18	1726400	2	BUSHING-FUEL TANK RED RUBBER -(SV)
19	5101144	2	PICKUP TUBE ASSEMBLY, FUEL LINE -(SV)
20	5050831X26	1	HOSE, FUEL, 1/4 IN, LW PRMTN, 26" LONG
21	5408039A	2	MOUNT, TANK, REAR - BLK -(S/N: 2014755821 & Above)
22	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE -(S/N: 2014755821 & Above)
23	5103960	1	TANK, FUEL, SNP-PRO, RH, 2013 -(S/N: 2016499707 & Above)
24	5103959	1	TANK, FUEL, LH -(S/N: 2016499707 & Above)

Hydraulic Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

5300919



Hydraulic Group

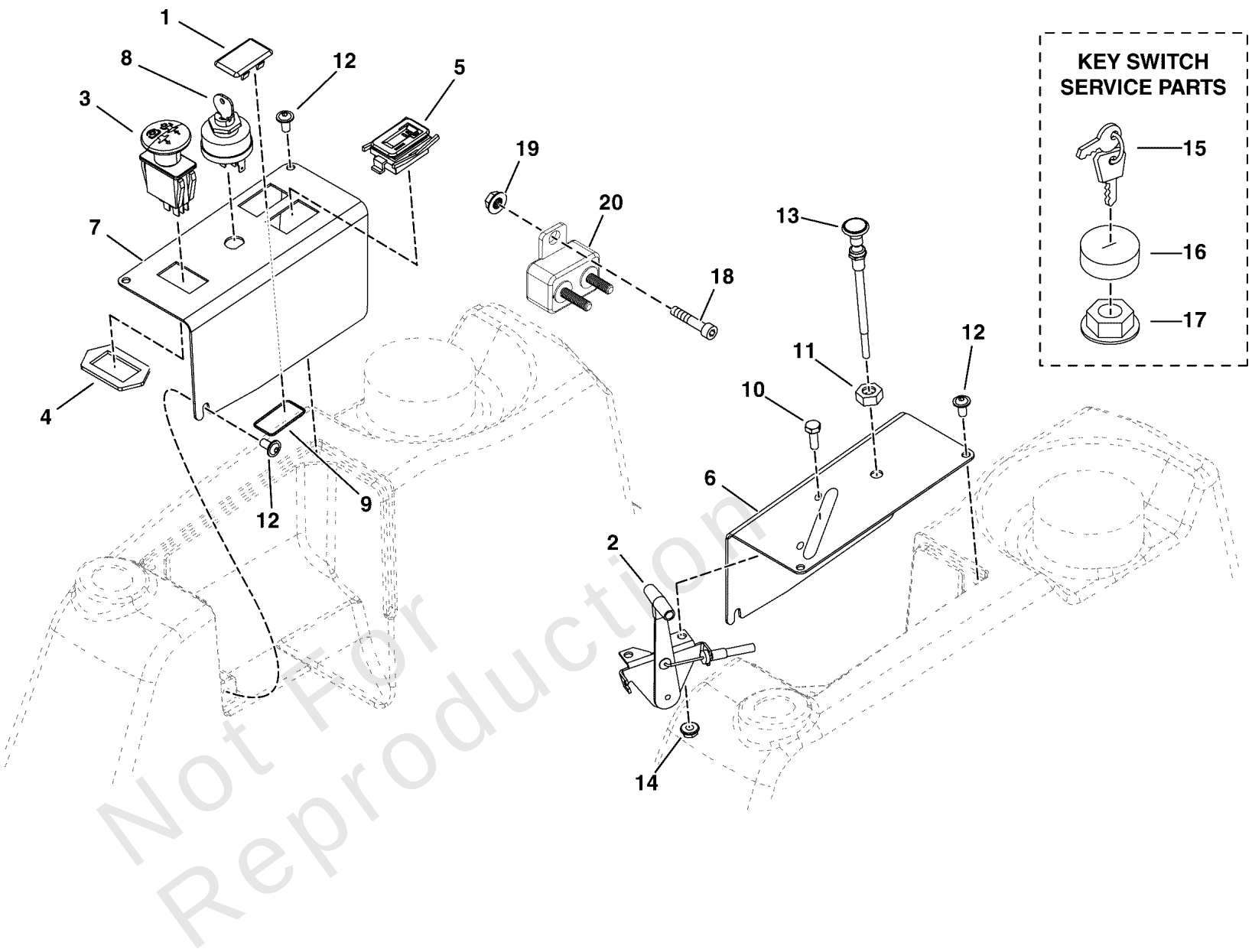
REF NO	PART NO	QTY	DESCRIPTION
1	5101024	1	TRANSAXLE, ZT3100, RH, ZL-GMEF-3L7B-1PLX -(Not Shown)
2	5101025	1	TRANSAXLE, ZT3100, LH, ZL-KMEF-3L7C-1PLX
3	5101138	1	ROD, DUMP CONTROL, LH
4	5101139	1	ROD, DUMP CONTROL, RH -(Not Shown)
5	5047408	2	SPACER, .39 X .75 X .50, CZ
6	5025011X22	6	BOLT, 5/16-18 X 2-3/4, GD 5, YZ
7	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
8	5025155	8	WASHER, 5/16" SAE
9	5025010X6	3	BOLT, 1/4"-20 X 3/4" GD5 YZ
10	5025391	2	NUT, 1/4-20 Hex Nylock Flange
11	5025211	2	PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ
12	5050857X2P5	2	HOSE, 1/2" PUSH-ON, 2.5" LONG
13	5025474	4	CLAMP, HOSE, .75 FREE DIA.
14	5025011X18	2	BOLT, 5/16-18 X 2-1/4" GD5 YZ
15	5025154	2	WASHER, 1/4 SAE
16	5100473	2	RESERVOIR, HYDRO OIL, 350 ML
17	5407997A	1	PLATE, BELT GUARD - BLK
18	5022308	2	BODY CLIP, 5/16-18-7GA MATERIAL
19	5025011X8	2	BOLT, 5/16-18 X 1" GRD5 YZ
20	5021029	2	TIE, SELF-LOCKING, 12"

Instrument Control Panel Group - S/N: 2016499707 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

5300915A



Instrument Control Panel Group - S/N: 2016499707 & Above

REF NO	PART NO	QTY	DESCRIPTION
1	1709188	1	PLUG, .820X1.44 HOLE, BLACK PLASTIC
2	5047629	1	CABLE, THROTTLE CONTROL, 48"
3	5022180	1	SWITCH, BLADE ENGAGEMENT
4	5022222	1	RING, SWITCH RETAINER
5	-----	1	* HOUR METER, ASSEMBLY
6	5410846A	1	CONTROL PANEL, LEFT - BLK
7	5410847A	1	CONTROL PANEL, RIGHT - BLK
8	5020927	1	SWITCH, IGNITION, 6 POST -(Includes Ref # 15-17)
9	5022269	1	O-RING, 7/8 ID X 1/16 W
10	-----	2	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
11	5025309	1	NUT, 3/8-24 HEX JAM
12	5025299X4	6	SCREW, ALLEN HEAD 1/4-20X.500 ZINC PHOS
13	5047779	1	CABLE, CHOKE CONTROL, 51 (Z)
14	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
15	5022789	1	KEY, IGNITION MOLDED SET
16	5022790	1	COVER, PLASTIC, SNAP ON
17	5022791	1	PLASTIC NUT
18	5025299X4	1	SCREW, ALLEN HEAD 1/4-20X.500 ZINC PHOS
19	5025126	1	NUT, 1/4-20 HEX SERR. FLANGE
20	1665238	1	BREAKER-CIRCUIT 12VOLT 20AMPS W/TAB

Footnotes:

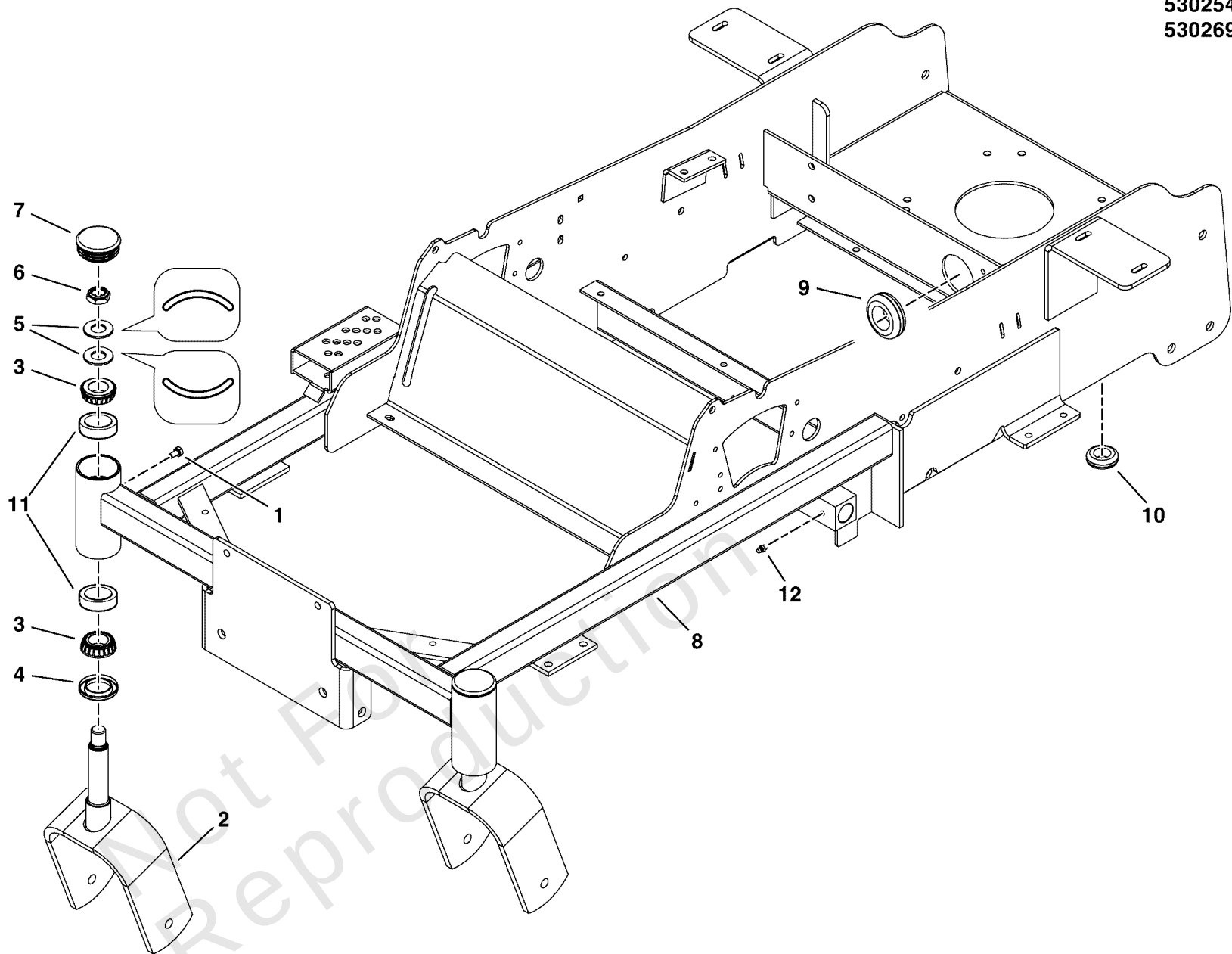
* When replacing this hour meter, please call our service department at 1-800-933-6175 ext. 709

Main Frame & Front Caster Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

5302549
5302694



Main Frame & Front Caster Group

REF NO	PART NO	QTY	DESCRIPTION
1	5025457	2	BOLT, 1/4-28 X 1/2, GD5 YZ
2	5402539D	2	WELD, CASTER YOKE - RED
3	5020884	4	BEARING, TAPERED ROLLER, 1"
4	5021072	2	SEAL, GREASE
5	5025449	4	WASHER, BELLEVILLE - 1.500 X .755
6	5025448	2	NUT, 3/4-16, HEX JAM NYLON LOCK
7	5109845	2	CAP, GREASE, LOW PROFILE
8	-----	1	* WELD, FRAME, S50XT - RED
9	5100716	1	GROMMET, 2" ID
10	5021379	1	GROMMET, 7/8
11	5020883	2	CUP, BEARING -(SV)
12	5020095	2	GREASE FITTING, 1/4-28 STRAIGHT

Footnotes:

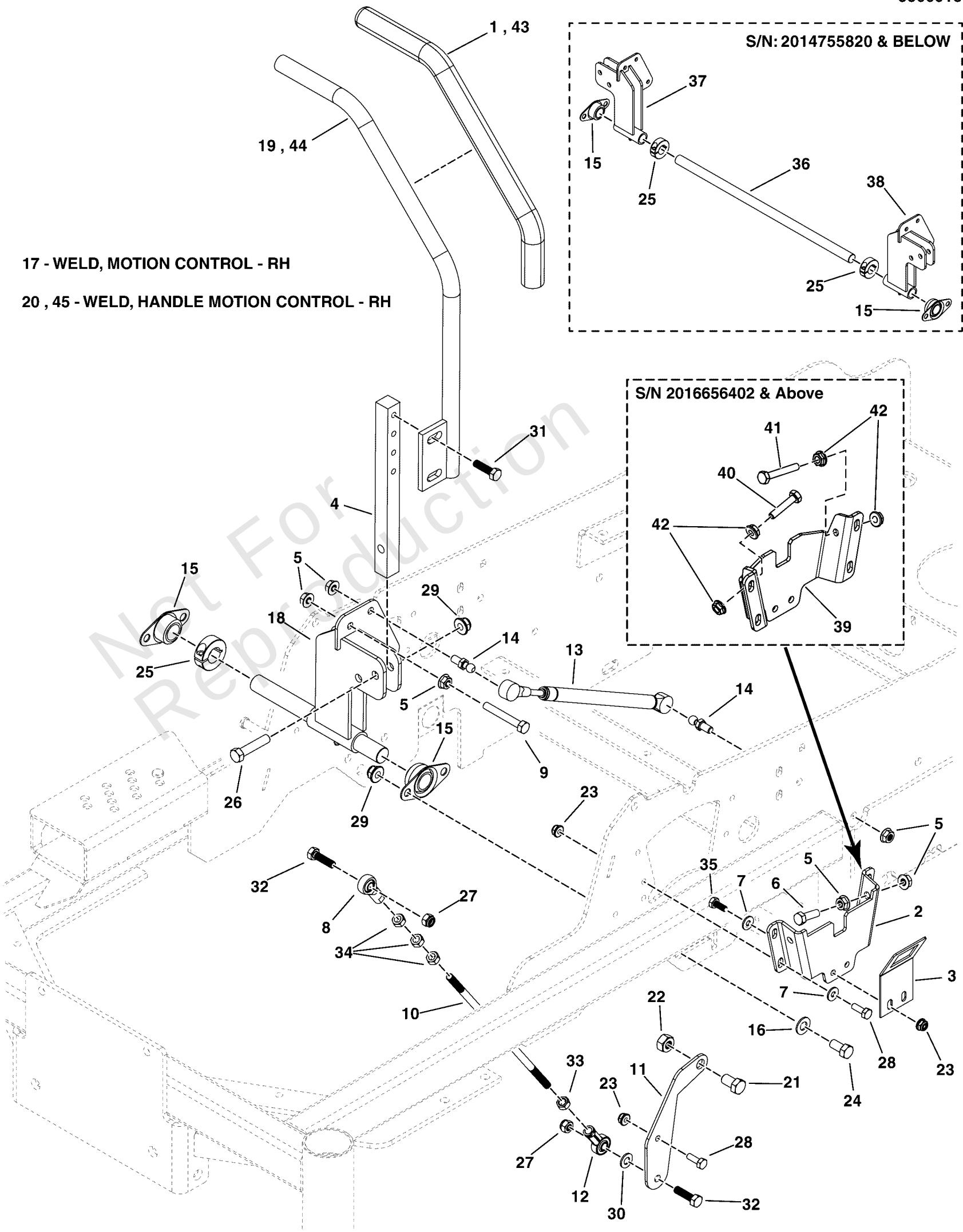
* If frame is damaged, call 1-800-933-6175 ext. 709

Motion Control Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

5300918



Motion Control Group

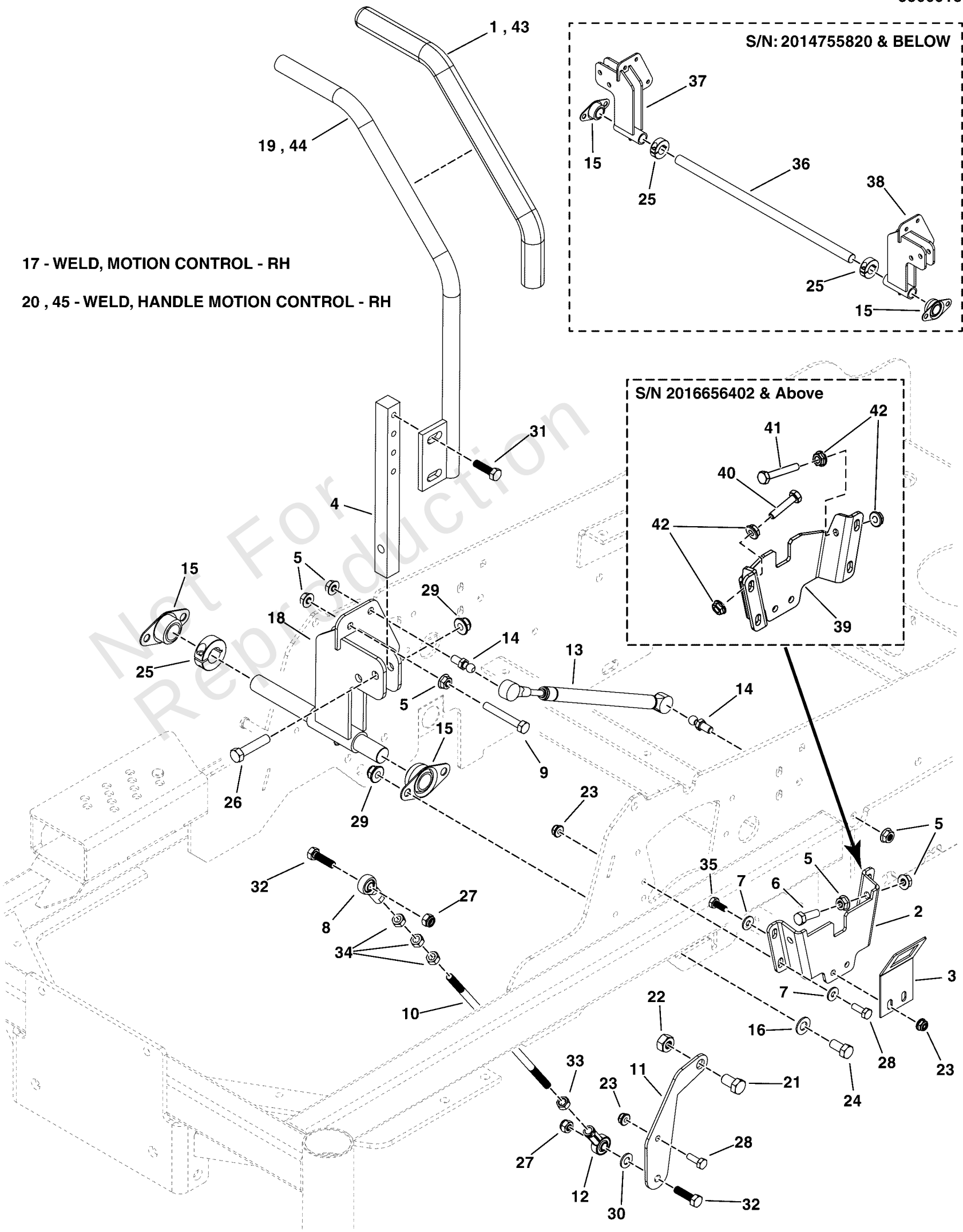
REF NO	PART NO	QTY	DESCRIPTION
1	5022068	2	GRIP, FOAM, 3/4" ID, 16" LONG -(S/N: 2017499983 & Below)
2	5402862A	2	NEUTRAL LOCK, S50X - BLK -(S/N: 2016656401 & Below)
3	5402984A	2	SWITCH PLATE, MOTION CONTROLS - BLK
4	5103106A	2	MOUNT, CONTROL ARM - BLK -(10.95" Total Length, 3 Adjustment Holes)
5	5025127	8	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL) -(QTY: 16 - S/N: 2016656401 & Below)
6	5025011X9	4	BOLT, 5/16-18 X 1-1/8 GD5 CZ -(S/N: 2016656401 & Below)
7	5025154	12	WASHER, 1/4 SAE
8	5104578	2	BALL JOINT 5/16-24 RH FEMALE STAMPED STL
9	5025011X18	2	BOLT, 5/16-18 X 2-1/4" GD5 YZ
10	5046420	2	ROD, HYDRO LINKAGE, CZ
11	5402910A	2	PLATE, CONTROL LINK, TRANSAXLE - BLK
12	5104579	2	BALL JOINT 5/16-24 LH FEMALE STAMPED STL
13	5100940	2	DAMPENER, CONTROL, #(P6709/P3610)
14	5100941	4	BALL STUD, 5/16 X .50, # PC-477-2)
15	5021098	2	BEARING, BRONZE FLANGE, 3/4"
16	5025156	4	WASHER, 3/8 SAE
17	5408134A	1	WELD, MOTION CONTROL, RH, S50X - BLK -(Not Shown)
18	5408135A	1	WELD, MOTION CONTROL, LH - BLK
19	5601285	1	KIT, HANDLE BAR REPLACE, L/R -(S/N: 2017499983 & Below)(Kit includes handles and grips for both sides of the unit.)
20	5601285	1	KIT, HANDLE BAR REPLACE, L/R -(S/N: 2017499983 & Below)(Kit includes handles and grips for both sides of the unit.)
21	5025015X6	2	BOLT, 7/16-14 X 3/4, GD 5 YZ
22	5025044	2	NUT, 7/16-14 HEX TOP LOCK
23	5025391	14	NUT, 1/4-20 Hex Nylock Flange
24	5025013X6	4	BOLT, 3/8-16 X 3/4" GD5 CZ
25	5010114	2	COLLAR, 3/4" Split
26	5025013X14	4	BOLT, 3/8-16 X 1-3/4" GD5 CZ
27	5025057	4	NUT, Hex, Nylon Locking, 5/16-18
28	5025010X6	10	BOLT, 1/4"-20 X 3/4" GD5 YZ
29	5025394	8	NUT, 3/8 - 16 HEX NYLOCK FLANGE
30	5025155	2	WASHER, 5/16" SAE
31	1960541	4	SCREW-HEX WSHR HD TAPTT5/16-18X0.750BLK
32	5025011X9	4	BOLT, 5/16-18 X 1-1/8 GD5 CZ
33	5023212	2	NUT, 5/16-24 HEX, LH
34	5025033	6	NUT, Hex, 5/16-24
35	-----	6	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
36	5101108	1	SHAFT, 3/4 X 19.52
37	5402913D	1	WELD, MOTION CONTROL, RH - RED
38	5402856D	1	WELD, MOTION CONTROL, LH - RED
39	5411903A	2	NEUTRAL LOCK, 50XT - BLK -(S/N: 2016656402 & Above)
40	5025068X10	2	BOLT, 1/4-20 X 1-1/4 GD5 TFL -(S/N: 2016656402 & Above)
41	5025068X14	2	HEX BOLT, 1/4-20 X 1-3/4 GD 5, TFL -(S/N: 2016656402 & Above)
42	5025126	8	NUT, 1/4-20 HEX SERR. FLANGE -(S/N: 2016656402 & Above)

Motion Control Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

5300918



Motion Control Group

REF NO	PART NO	QTY	DESCRIPTION
43	5104722	2	GRIP, FOAM, 1" ID, 16" LONG -(S/N: 2017499984 & Above)
44	5414429A	1	WELD,HANDLE MOTION CNTRL,17.0,1.0,LH,BLK -(S/N: 2017499984 & Above)
45	5414430A	1	WELD, HANDLE MOTION CNTRL,17.0,1.0,RH,BLK -(S/N: 2017499984 & Above)

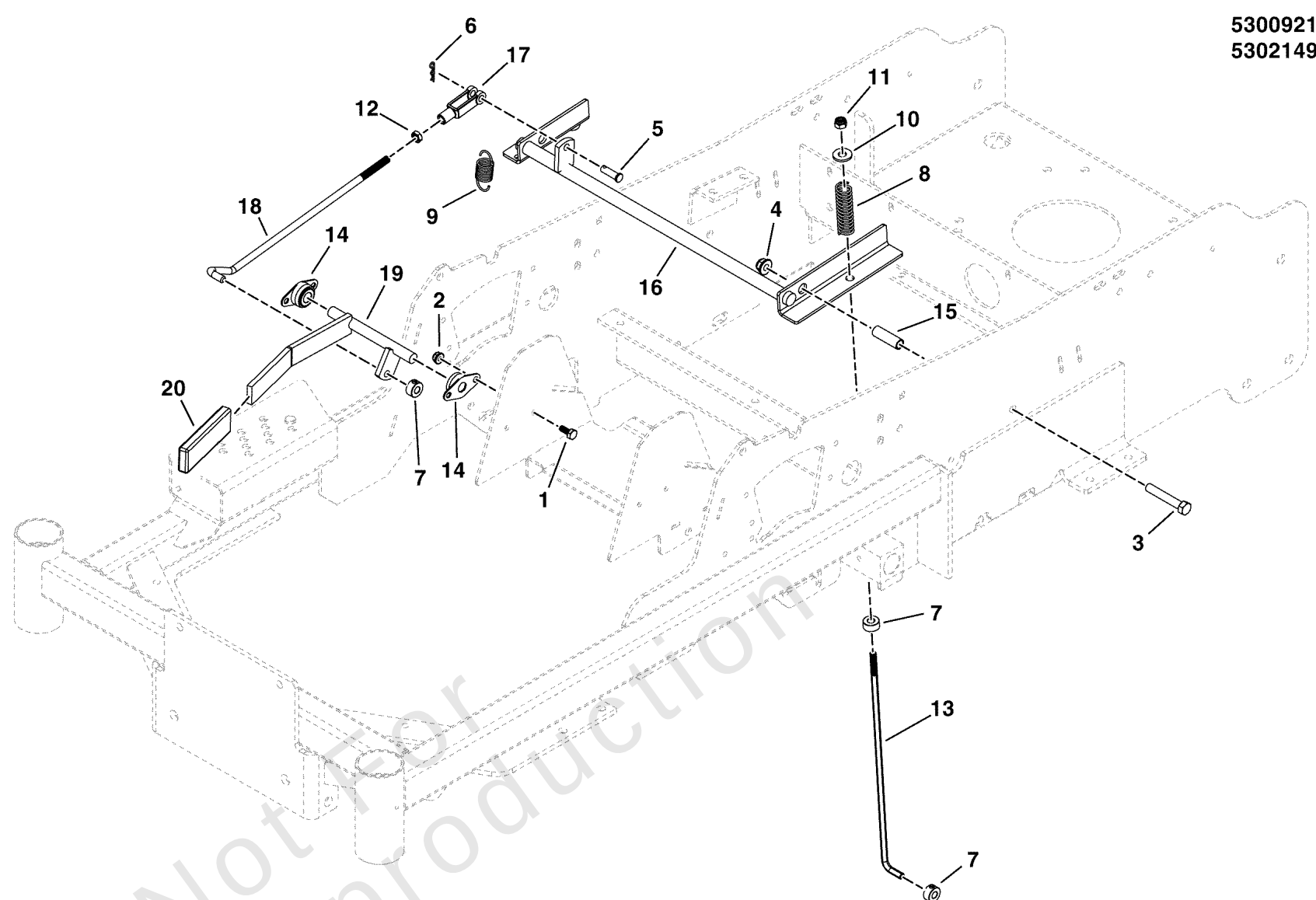
Not For Reproduction

Parking Brake Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

5300921
5302149



Parking Brake Group

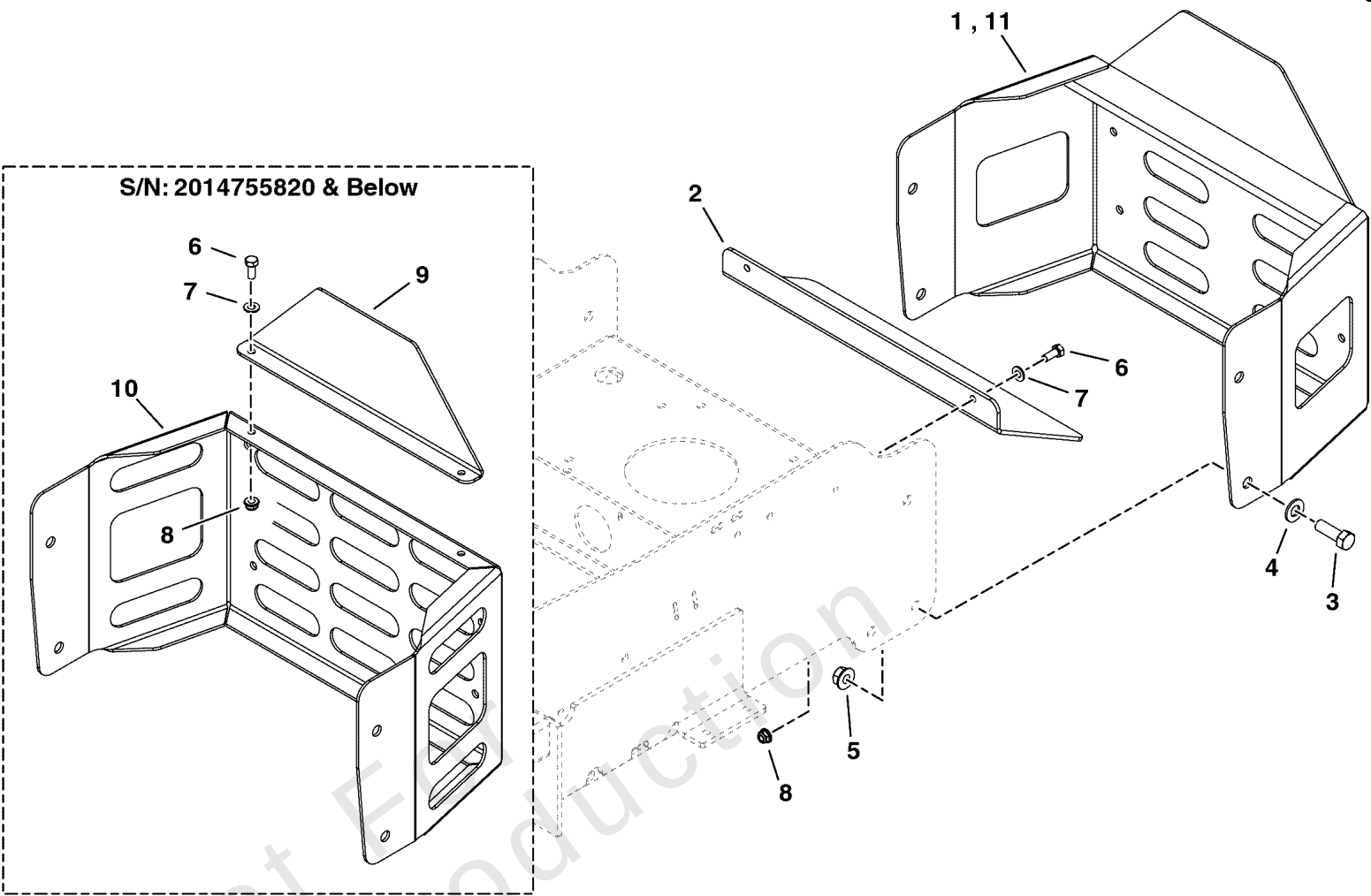
REF NO	PART NO	QTY	DESCRIPTION
1	-----	4	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
2	5025391	4	NUT, 1/4-20 Hex Nylock Flange
3	5025013X18	2	BOLT, 3/8-16 X 2-1/4" GD5 CZ
4	5025394	2	NUT, 3/8 - 16 HEX NYLOCK FLANGE
5	5025213X8	1	PIN, CLEVIS, 5/16 X 1, PLATED
6	5025211	1	PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ
7	5020047	5	COLLAR, 5/16" Set
8	5021102	2	SPRING-COMP, .594ID X 2.68LG X .080WR
9	5010213	1	SPRING-EXT, .740 ODX2.025LGX.072WR, BLK
10	5025337	2	WASHER, 5/16" USS
11	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
12	5023216	1	NUT, Hex Jam, 5/16-24
13	5101058	2	ROD, BRAKE CTRL, LOWER - CONZ
14	5101123	2	BEARING, 1/2 FLANGED, PLASTIC BALL
15	5044992	2	SPACER, .38 x .50 x 1.56
16	5402914A	1	WELD, BRAKE SHAFT - BLK
17	5023323	1	CLEVIS, 5/16-24, STEEL, CLEAR ZINC
18	5101116	1	ROD, PULLER ROD
19	5406620A	1	WELD, BRAKE SHAFT, HANDLE - BLK -(S/N: 2014755821 & Above)
19	5402903D	1	WELD, BRAKE SHAFT, HANDLE - RED -(S/N: 2014755820 & Below)
20	5025510	1	GRIP, FOAM, 1/4 X 1 X 4.1

Rear Bumper Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

5300912
5302617



Rear Bumper Group

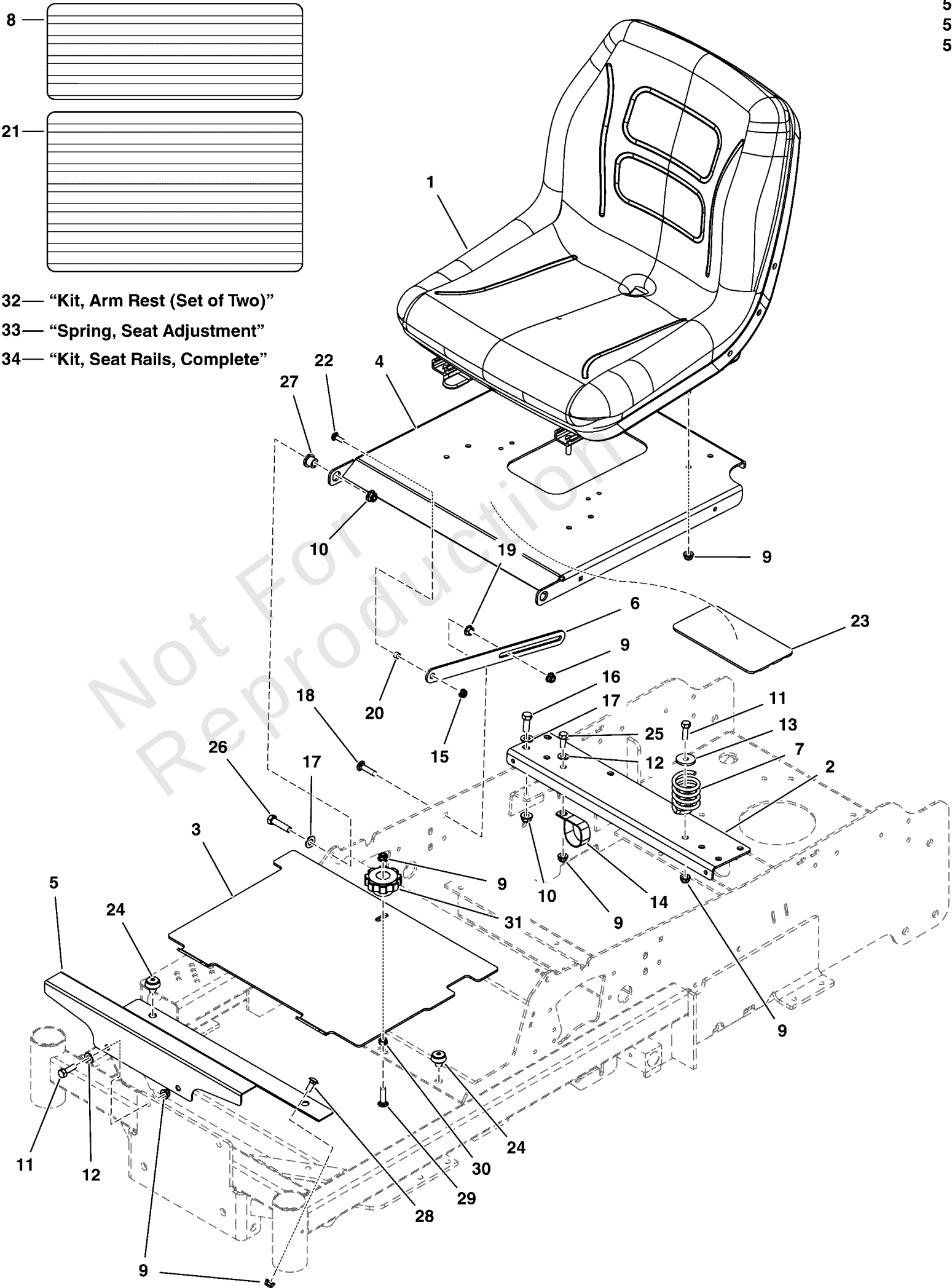
REF NO	PART NO	QTY	DESCRIPTION
1	5407854D	1	WELD, PLATE, BUMPER - RED -(S/N: 2014755821 - 2016294925)
2	5403593A	1	SHIELD, MUFFLER - BLK
3	5025017X12	4	BOLT, 1/2-13 X 1-1/2 GD5 CZ
4	5025158	4	WASHER, 1/2 SAE
5	5025396	4	NUT, Hex Flange, Nylock, 1/2-13
6	5025011X6	2	BOLT, 5/16-18 X 3/4 GD5 -(S/N: 2014755820 & Below Qty. 4)
7	5025155	2	WASHER, 5/16" SAE -(S/N: 2014755820 & Below Qty. 4)
8	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE -(S/N: 2014755820 & Below Qty. 4)
9	5403018D	1	PLATE, CARB GUARD - RED -(S/N: 2014755820 & Below)
10	5403573D	1	WELD, PLATE, BUMPER - RED -(S/N: 2014755820 & Below)
11	5410504D	1	WELD, PLATE, BUMPER - RED -(S/N: 2016294296 & Above)

Seat Mount & Floor Group (S/N: 2016499707 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

5302803
5302649
5302601



Seat Mount & Floor Group (S/N: 2016499707 & Above)

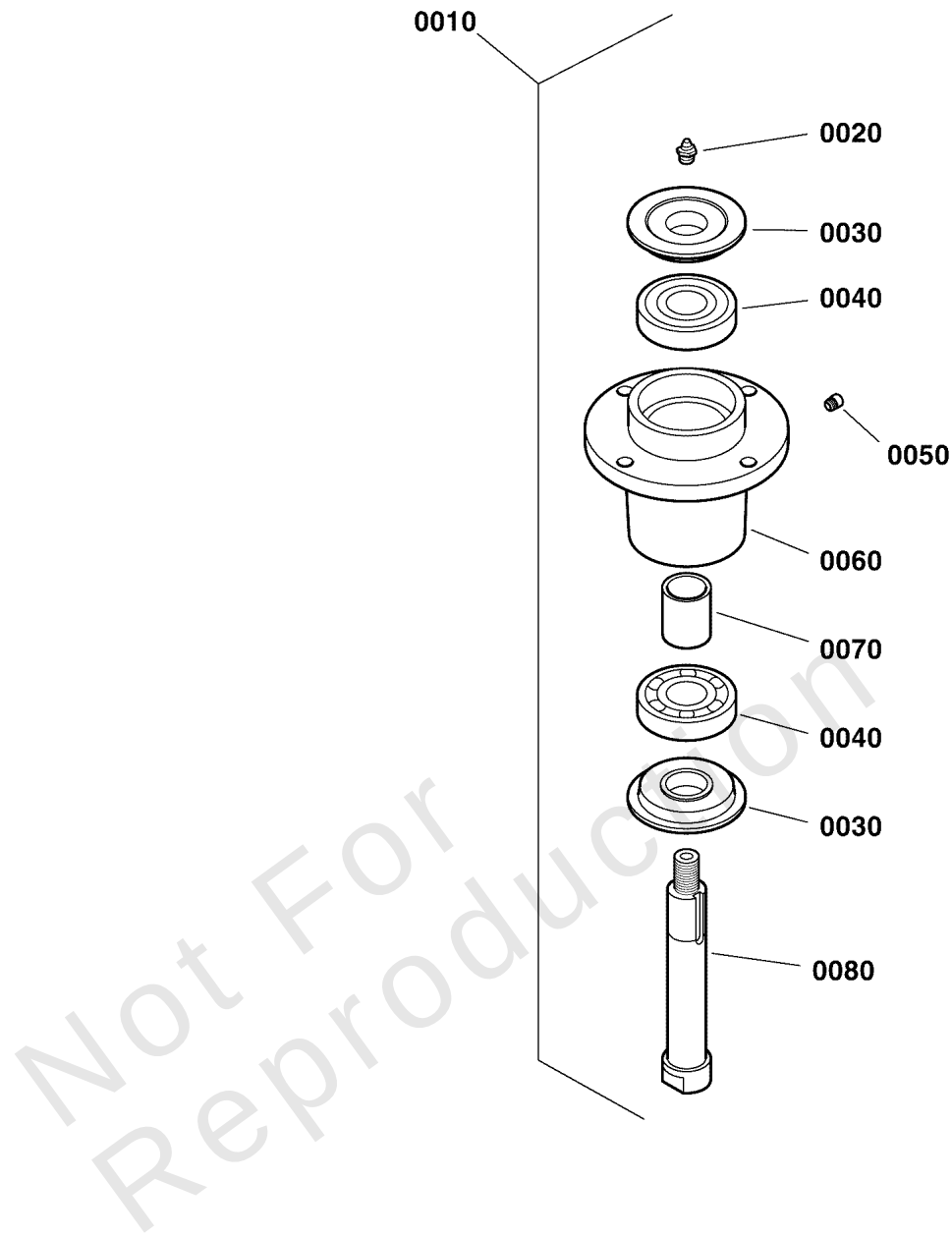
REF NO	PART NO	QTY	DESCRIPTION
1	5100909	1	SEAT, NO ARM REST
2	5410845D	1	MOUNT, SEAT STOP - RED
3	5410381D	1	PLATE, FLOOR - RED
4	5407857D	1	WELD, PLATE, SEAT MOUNT - RED
5	5410382D	1	PLATE, ISO FLOOR MOUNT - RED
6	5403015A	1	SEAT PLATE, STOP - BLK
7	7078299	2	SPRING, SEAT SUPPORT
8	5101374	1	SAFETY WALK, FLOOR REST, 6.00 X 16.00
9	5025392	13	NUT, 5/16-18 HEX NYLOCK FLANGE
10	5025394	6	NUT, 3/8-16 HEX NYLOCK FLANGE
11	5025011X8	4	BOLT, 5/16-18 X 1 GD5 YZ
12	5025155	3	WASHER, 5/16" SAE
13	5044617	2	WASHER, .34 X 1.25 X 10 GA
14	5023263	1	CLAMP, VINYL 1.75-1.81
15	5025391	1	NUT, 1/4-20 HEX NYLOCK FLANGE
16	5025013X8	4	BOLT, 3/8-16 X 1" GD5 CZ
17	5025156	6	WASHER, 3/8 SAE
18	5025145X10	1	BOLT, 5/16-18 X 1-1/4, CARRIAGE YZ
19	5025127	1	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
20	5021878	1	SPACER, .25 X .37 X .25
21	5101333	1	SAFETY WALK, FLOOR PLATE, S50X, 10X16
22	80003518	1	BOLT, 1/4-20X0.750, GR5, STD NECK, SQ, ZC/CL
23	5101004	1	SAFETY WALK, 4.00 X 7.50
24	197546	4	MNT, VBRTN, RBBR
25	5025011X6	1	BOLT, 5/16-18 X 3/4 GD5
26	5025013X12	2	BOLT, 3/8-16 X 1-1/2" GD5 CZ
27	5103071	2	FLANGED BUSHING .37 ID X .63 OD X .55 LG
28	5025145X6	2	BOLT, 5/16-18 X 3/4, CARRIAGE
29	5025145X10	1	BOLT, 5/16-18 X 1-1/4, CARRIAGE YZ
30	80003675	2	NUT, 5/16-18, HEX, CNTR LK, ZINC PHOS/OIL
31	1670578	1	KNOB-INT THR .312-18 4-ARM 2.12WD 1.06LG
32	1686907	1	ARM REST, SET OF TWO (SV)
33	5100652	1	SPRING, EXTENSION, SEAT ADJUSTMENT (BLK OR SLVR) -(SV)(Not an illustrated part.) (3-1/2" Total unstretched length)
34	5061599X1	1	KIT, SEAT RAILS (COMPLETE)(SV)

Spindle SERVICE PARTS - 5061095

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

5061095



Spindle SERVICE PARTS - 5061095

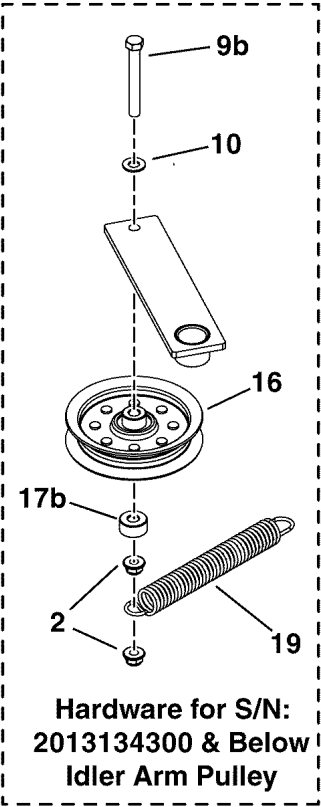
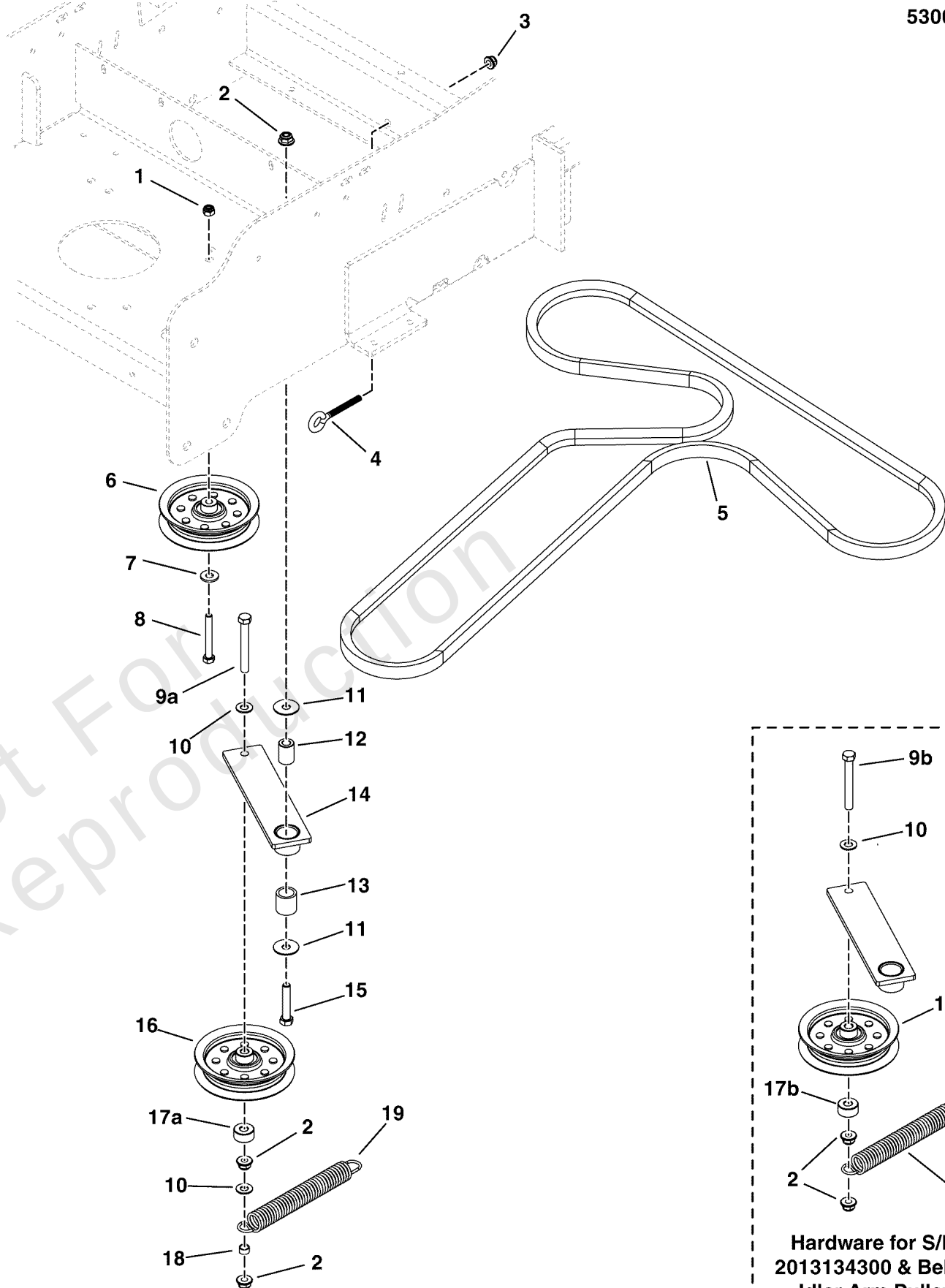
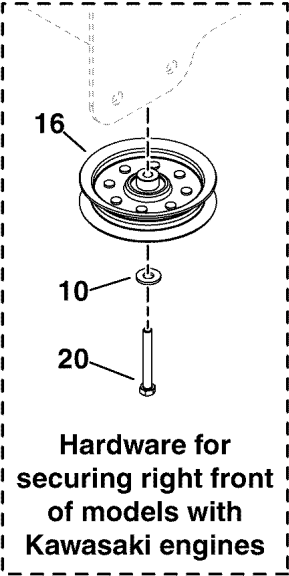
REF NO	PART NO	QTY	DESCRIPTION
0010	5061095SM	1	ASSM, SPINDLE, LOW PR -(Nut and Washer Sold Separately) (Includes items #0020 - 0080)
0020	5023329SM	1	FITTING
0030	5049793SM	2	SHIELD, TRASH
0040	5023330SM	2	BEARING, .98 X 2.44 X
0050	5023296SM	1	FITTING, RELIEF, 1-5
0060	5102993YP	1	SUB ASM, SPINDLE, LON -(Includes items #0040 - Qty (2) & #0070 - Qty (1))
0070	5061099SM	1	SPACER
0080	5061098SM	1	SHAFT, SPINDLE

Transaxle Drive Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901373

5300917



Transaxle Drive Group

REF NO	PART NO	QTY	DESCRIPTION
1	5025057	1	NUT, Hex, Nylon Locking, 5/16-18
2	5025394	3	NUT, 3/8 - 16 HEX NYLOCK FLANGE
3a	5025392	1	NUT, 5/16-18 HEX NYLOCK FLANGE NUT -(S/N: 2013134301 & Above)
3b	5025032	2	NUT, 5/16-18 HEX -(S/N: 2013134300 & Below)
4a	5025141X26	1	EYE BOLT, 5/16-18 X3.5, 2.13THRD, .55EYE, CZ -(S/N: 2013134301 & Above)
4b	5025141	1	EYE BOLT, 5/16-18 X 4", 2 1/4 OF THREADS -(S/N: 2013134300 & Below)
5	5105189	1	BELT, SPA-SEC, 66.26" EL, ARAMID, WRAPED
6	5101379	1	PULLEY-IDLER, 4.06OD, .315ID, .75W STL -(Briggs & Stratton Models)
7	5025337	1	WASHER, 5/16" USS -(Briggs & Stratton Models)
8	5025011X20	1	BOLT, 5/16-18 X 2-1/2" GD5 YZ -(Briggs & Stratton Models)
9a	5025058X24	1	BOLT, 3/8-16 X 3 GD5 TFL -(S/N: 2013134301 & Above)
9b	5025013X22	1	BOLT, 3/8-16 X 2-3/4" GD5 CZ -(S/N: 2013134300 & Below)
10	5025156	2	WASHER, 3/8 SAE -(Kawasaki Models)
11	5025165	2	WASHER, 3/8" Fender
12	5042658	1	SPACER, .38 X .75 X 1.06, YZ
13	5020876B	1	BUSHING, BRASS, 3/4 X 1 X 1
14	5402919A	1	NLA - WELD, IDLER ARM, SNAPPER PRO - BLK
15	5025013X16	1	BOLT, 3/8-16 X 2, GD5, CZ
16	5101380	1	PULLEY-IDLER, 4.06OD, .375ID, .75W STL -(Qty: 2 - Kawasaki Models)
17a	5046860	1	SPACER, .39 X 1.00 X .50, PM, CZ -(S/N: 2013134301 & Above)
17b	5047408	1	SPACER, .39 X .75 X .50, CZ -(S/N: 2013134300 & Below)
18	5041930	1	SPACER, .38 X .50 X .27, CZ -(S/N: 2013134301 & Above)
19	1715435	1	SPRING, EXTENSION, 1.00
20	5025544	1	BOLT, HEX FLG, SER GD5 3/8-16X2, PATCH, CZ -(S/N: 2013134301 & Above)

Transmission SERVICE PARTS

Note: Unless noted otherwise, use the standard torque specifications

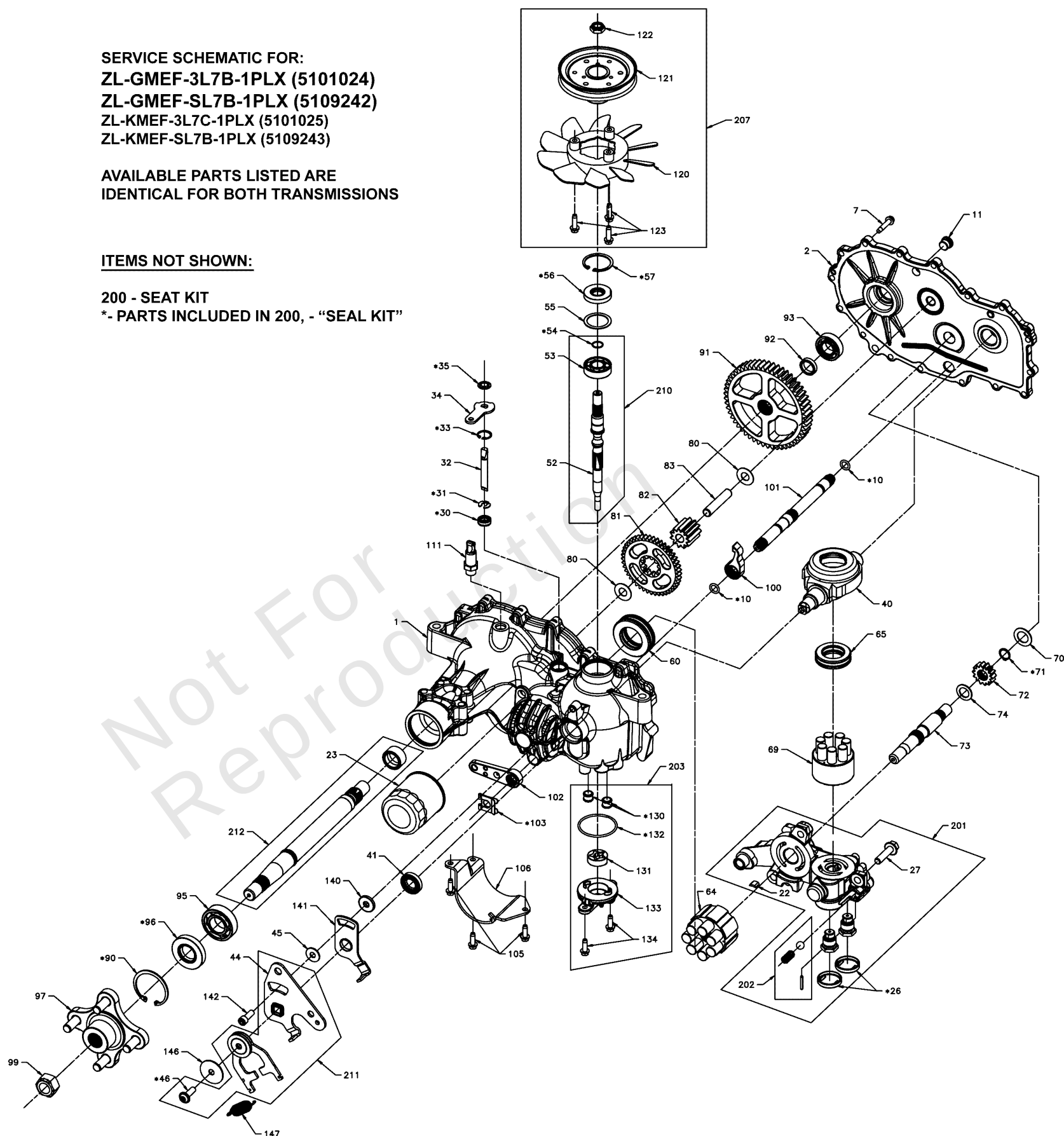
Mfg. No: 5901373

SERVICE SCHEMATIC FOR:
ZL-GMEF-3L7B-1PLX (5101024)
ZL-GMEF-SL7B-1PLX (5109242)
ZL-KMEF-3L7C-1PLX (5101025)
ZL-KMEF-SL7B-1PLX (5109243)

AVAILABLE PARTS LISTED ARE
 IDENTICAL FOR BOTH TRANSMISSIONS

ITEMS NOT SHOWN:

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

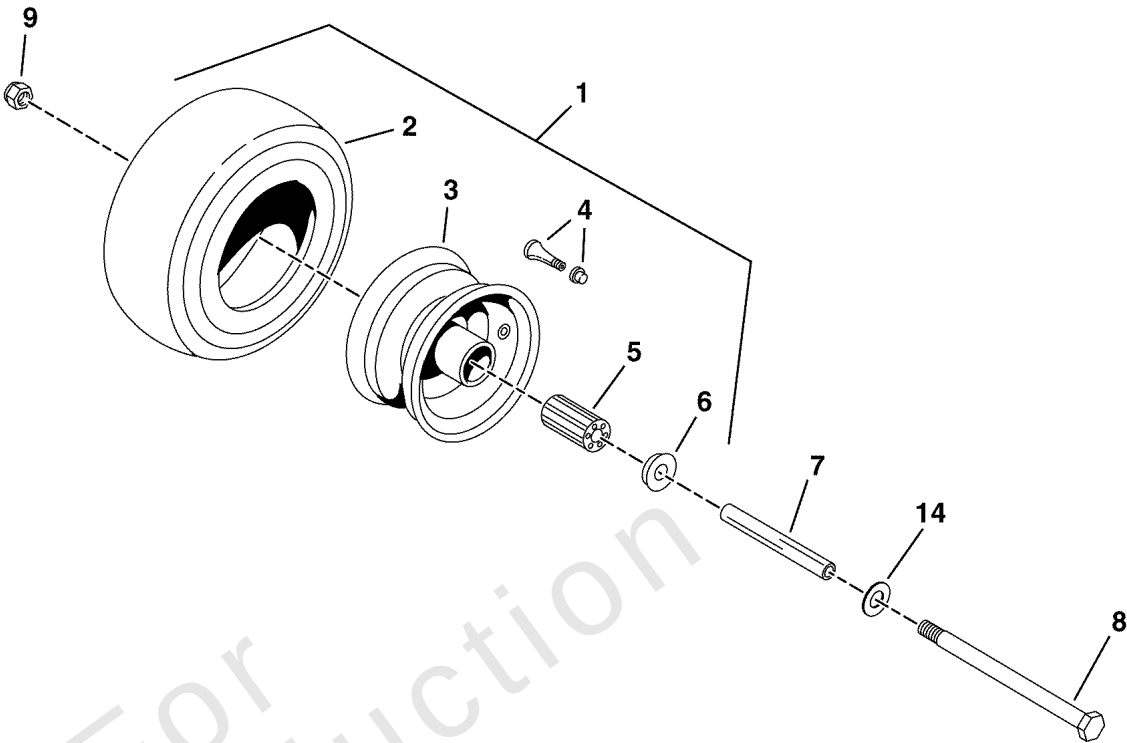


Transmission SERVICE PARTS

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	5101024X1	1	FAN
121	5101188X2	1	*PULLEY, HYDRO-GEAR 50302 -*Inspect existing pulley. If pulley has splined hub order part number 5102809X1. If pulley does not, order 5101188X2.
200	5101026X8	1	KIT SEAL
203	5101026X12	1	KIT, CHARGE PUMP, ZT2800, ZT3100
210	5101026X9	1	KIT, INPUT SHAFT
1000	5104580X4	1	KIT, PLUG, BRAKE BORE, OUTBOARD
1001	84009787	1	KIT, TRANSAXLE SERVICE PARTS -(Includes 10 Qts oil, 2 oil filters, 2 fittings, 2 vent hoses, 2 vent hose plugs, and 2 hose clamps.)

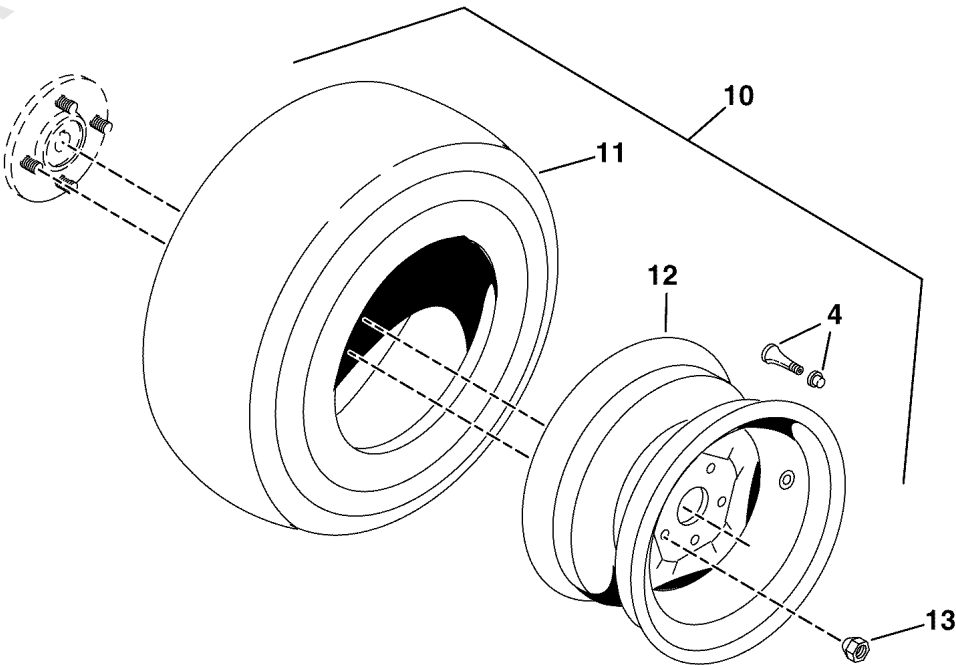
Front Wheels & Tires

5300923
5301015
5302642



Inflate to 25 PSI (1,72 bar)

Rear Wheels & Tires



Inflate to 15 PSI (1,03 bar)

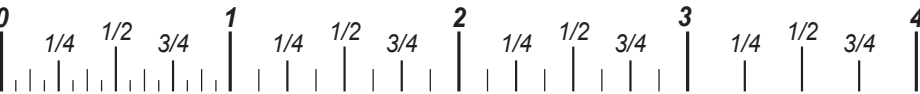
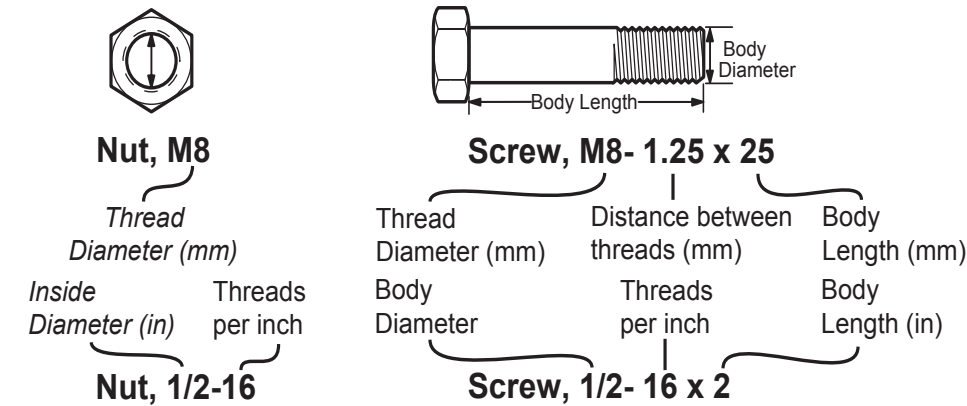
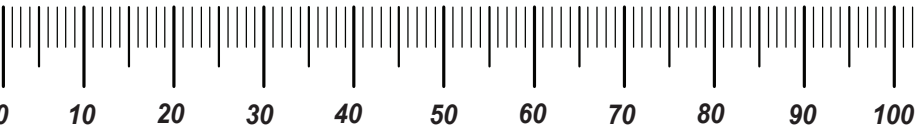
Wheel & Tire Group

REF NO	PART NO	QTY	DESCRIPTION
1	5101418	2	WHEEL, CASTER, 11 X 4.0-5 SILVER BEAD LO
2	5022433X1	2	TIRE, FRONT, 11 X 4.0 - 5 (SV) -(SV)
3	5101418X2	2	WHEEL FOR 11X4.0-5 TIRE ASSM -(SV)
4	2172353	2	VALVE STEM & CAP-AIR .453DIA 0.88LG (SV) -(SV)
5	5101418X1	4	BEARING, CASTER WHEEL, 11 X 4.0 - 5 BEAD LOCK (SV) -(SV)
6	5021043	4	RETAINER, BEARING (TWO PER TIRE)(SV) -(SV)
7	5045996	2	AXLE, Front Caster
8	5025017X56	2	BOLT, HEX, 1/2-13 X 7, GD 8, YZ
9	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
10	5101068	2	TIRE ASSM, 20 X 7 - 10, TURF, 4 BOLT -(36" Models)
10	5103019	2	TIRE ASM, REAR, 20 X 10.0 X 10 -(48" Models S/N: 2014755821 & Above)
10	5101375	2	TIRE ASM, REAR, 20 X 10.0 X 10 -(48" Models S/N: 2014755820 & Below)
11	5101068X1	2	TIRE, 20 X 7 -10 NHS, TURF MASTER -(SV - 36" Models)
11	5101345X1	2	TIRE, REAR, 20 X 10.0 X 10 -(SV - 48" Models)
12	5101068X2	2	WHEEL, 10 X 6.00 4/4 SOLID, F237 -(SV - 36" Models)
12	5102329X2	2	WHEEL, 10X7.00 4/4 SOLID F237 2.625 OS -(SV - 48" Models)
13	5020601	8	NUT, 1/2-20, FOR WHEEL BOLT SILVER
14	5025158	2	WASHER, 1/2 SAE

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).

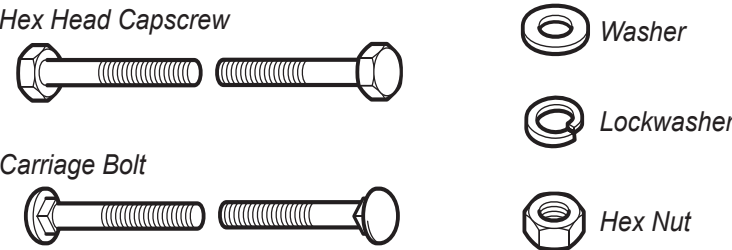
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

