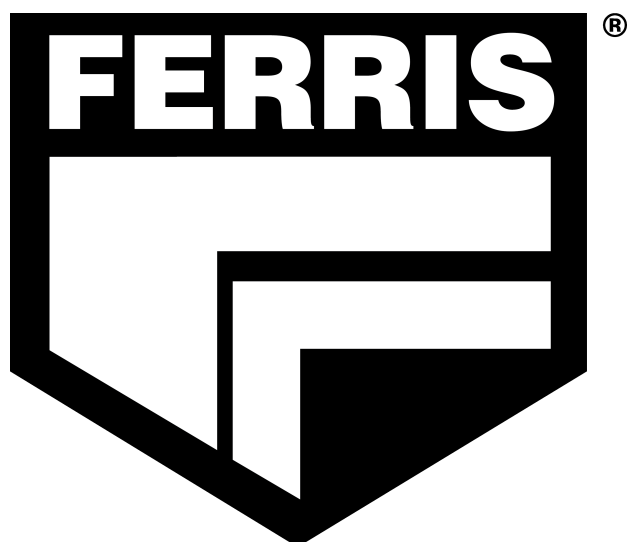




Parts Manual

Mfg. No: 5901599
FW35 Series w/52" Mower Deck
(FW35BVE2852)

02 - SERIAL: 2018012461

ENGINE: VANGUARD EFI28 810CC

TRANS:

OIL FILTER: 84007094

TRANS FILTER: _____

GAS FILTER: 5021178X3FS

AIR FILTER: _____

BLADE BELT: 5103392

BLADE: _____

DRIVE BELT: 5104193

DISCLAIMER: THE CONTENTS OF THIS MANUAL HAVE BEEN MODIFIED FROM ITS ORIGINAL VERSION.

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Attachments and Accessories

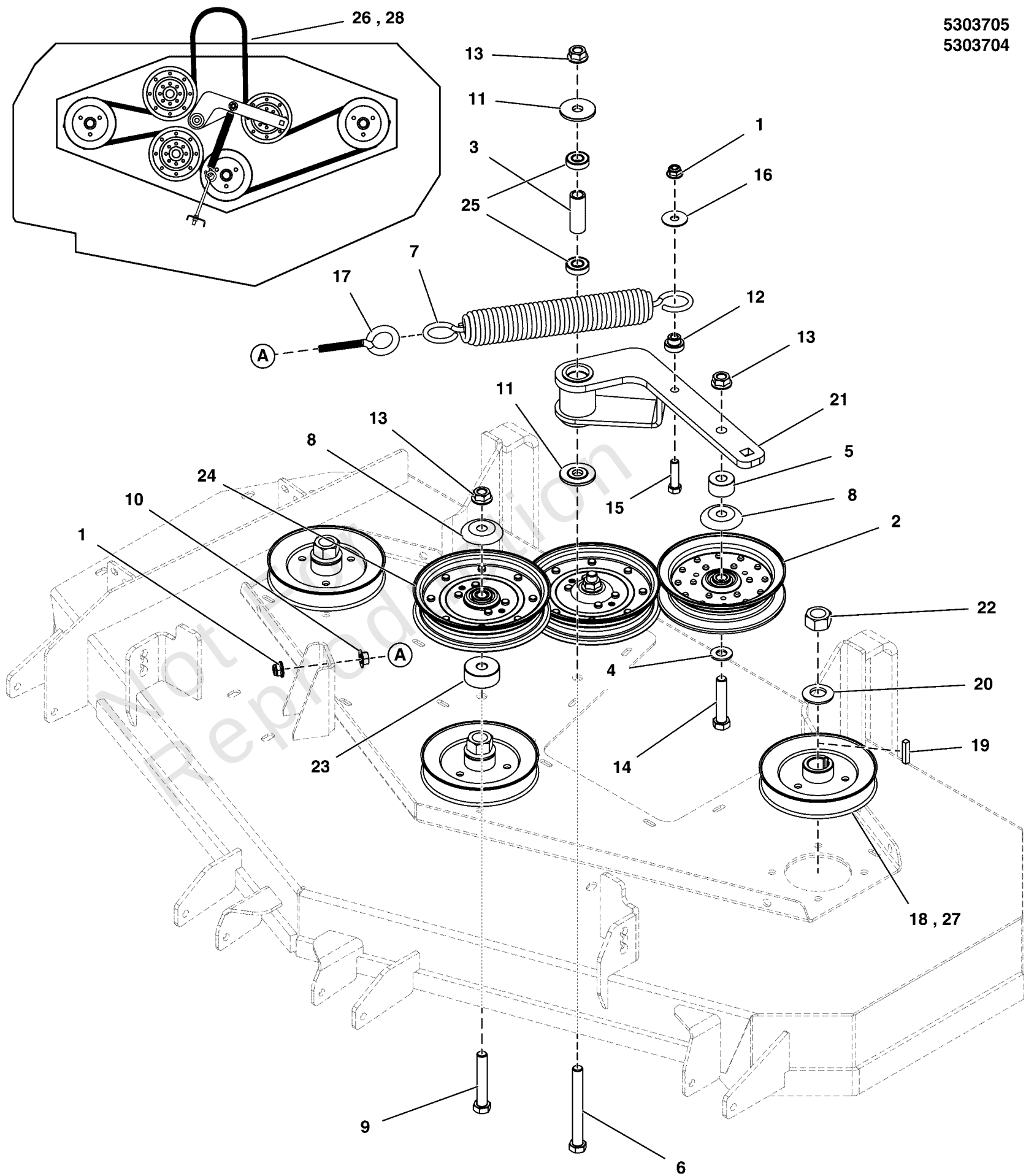
5105070 - Catcher, Steel Frame / Aluminum Mesh.	
5105073 - Mounting Kit, Catcher for 52" Decks (FW25, SRS Z2 - S/N: All; FW35, SW25 - S/N: 2017170235	

48" & 52" Mower Deck - Pulleys, Belt, & Idler Arm

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5303705
5303704



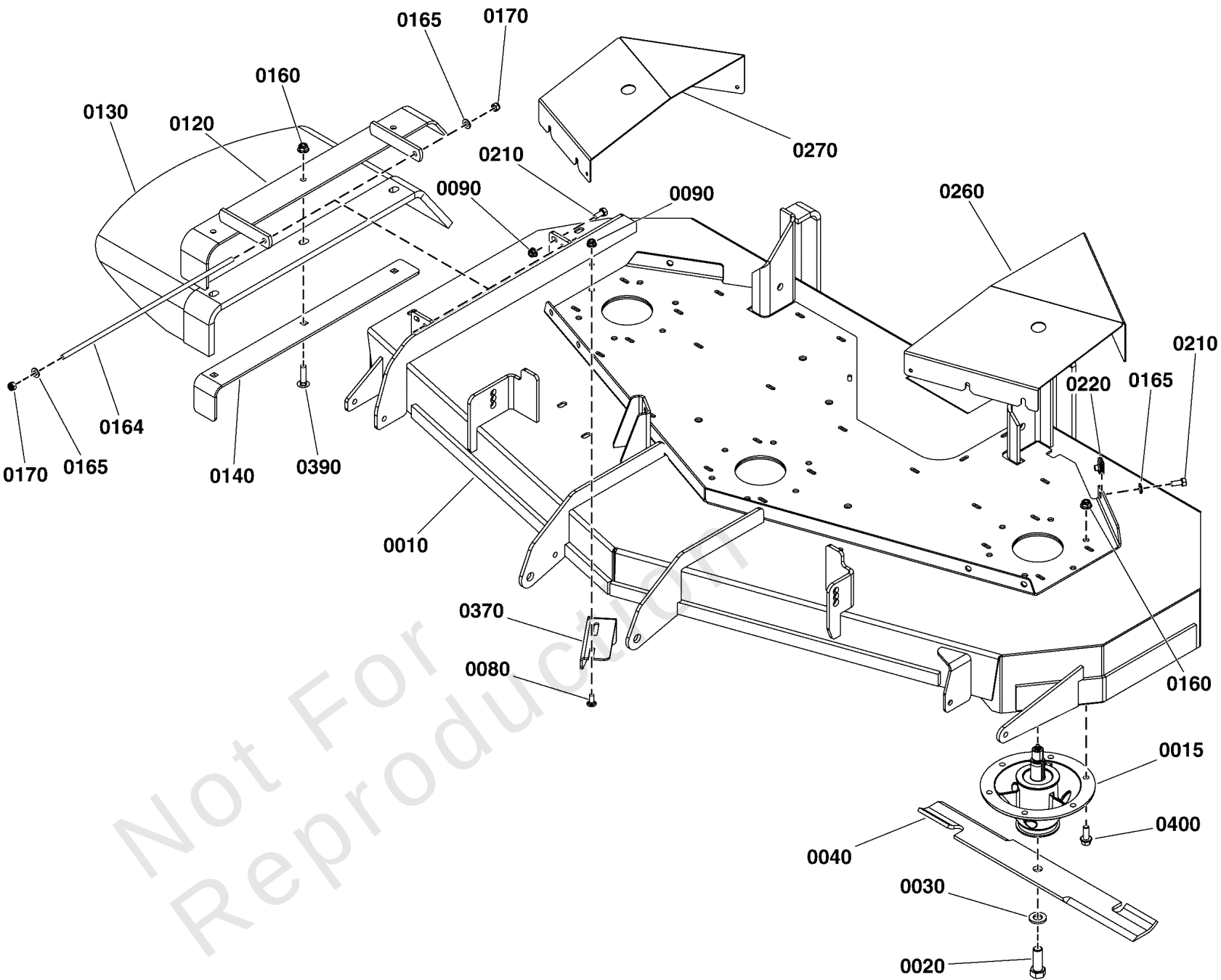
48" & 52" Mower Deck - Pulleys, Belt, & Idler Arm

REF NO	PART NO	QTY	DESCRIPTION
1	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
2	-----	1	USE 5104716 PULLEY + 5105145 SHIELD
3	5104172	1	SPACER, .505 X .75 X 2.085, CZ
4	5025158	1	WASHER, 1/2 SAE
5	5047142	1	SPACER, .52 X 1.25 X .70, CZ
6	5025017X36	1	BOLT, 1/2-13 X 4-1/2 GD5 CZ
7	5104166	1	SPRING, EXT, 1.5ODX12.25X.234WIRE BLK
8	5101103	3	SHIELD, PULLEY BEARING, CZ
9	5025017X20	2	BOLT, 1/2-13 X 2-1/2" GD5 CZ
10	5025128	1	NUT, 3/8-16 HEX SERRATED FLANGE
11	5103262	2	SPACER, IDLER ARM, 1/2, PM
12	5102406	1	SPACER, .38 X 1.13 X .781 STEP, CZ
13	5025396	4	NUT, Hex Flange, Nylock, 1/2-13
14	5025017X20	1	BOLT, 1/2-13 X 2-1/2" GD5 CZ
15	5025013X12	1	BOLT, 3/8-16 X 1-1/2" GD5 CZ
16	5025165	1	WASHER-3/8 FENDER
17	5023497	1	EYE BOLT, 3/8-16 X 5, 2.88THRD, 1EYE, CZ
18	5023175	3	PULLEY, 5.540OB X .985ID, SINGLE B-SEC -(Models with 48" Mower Decks)
19	5050407X10	3	KEY, 1/4 SQ X 1-1/4
20	5025406	3	WASHER, 3/4 BELLEVILLE
21	5412371A	1	WELD, TENSION ARM, CUTTER DECK - BLK
22	5025405	3	NUT, 3/4-16 HEX
23	5046916	2	SPACER, .51 X 1.75 X .75
24	-----	2	Replace with: Pulley #5104717 & Debris Shield #5105145
25	7078243	2	BEARING, BALL, AXLE
26	5104219	1	BELT, 5V, 139.30"EL, ARAMID, WRAP, RC -(Models with 48" Mower Decks)
27	5101351	1	PULLEY, 5.926 OVER BALL -(Models with 52" Mower Decks)
28	5103392	1	BELT, 5V, 147.40"EL, LRG ARAMID,WRPD, RC -(Models with 52" Mower Decks)

52" Mower Deck - Housing, Covers, Spindles, & Blades S/N: 2017959000 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599



52" Mower Deck - Housing, Covers, Spindles, & Blades S/N: 2017959000 & Above

REF NO	PART NO	QTY	DESCRIPTION
0010	5601106	1	DECK SHELL W/ DECALS, FW35-52 (5422046B)
0015	5100993	3	SPINDLE ASSM, CAST IRON 8.0 - 6-BOLT
0020	5025320X14	3	BOLT, 5/8-11 X 1-3/4 GD8
0030	5025477	3	WASHER, BLADE BOLT, 9/16" F436, CZ
0040	5101756S	1	BLADE, 18 X .25 X 2.5, 1 X 3.5 (SET OF THREE) -(Refer to Note :*)
0080	5025145X6	2	BOLT, 5/16-18 X 3/4, CARRIAGE, GD5, CZ
0090	5025392	3	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0120	5413400A	1	WELD, MOUNT, DISCHARGE CHUTE - BLK
0130	5413499	1	CHUTE, RUBBER DISCHARGE (5104442)
0140	5413398A	1	SUPPORT, DISCHARGE CHUTE - BLK
0160	5025394	21	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0164	5061300	1	ROD, MOUNT, CHUTE, 61, CZ
0165	5025155	8	WASHER, 5/16" SAE
0170	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
0210	5025011X6	7	BOLT, 5/16-18 X 3/4 GD5
0220	5022308	6	BODY CLIP, 5/16-18-7GA MATERIAL
0260	5412336B	1	GUARD, DECK, 52, LH - RED
0270	5412335B	1	GUARD, DECK, 52, RH - RED
0370	84003127	1	DEFLECTOR
0390	5025146X12	3	BOLT, 3/8-16 X 1-1/2, CARRIAGE, GD5, CZ
0400	5025390X8	18	BOLT, 3/8-16 X 1, FLANGE, GD 5, CZ

Footnotes:

Note : * Set of 3 blades.

52" Mower Deck - Rollers

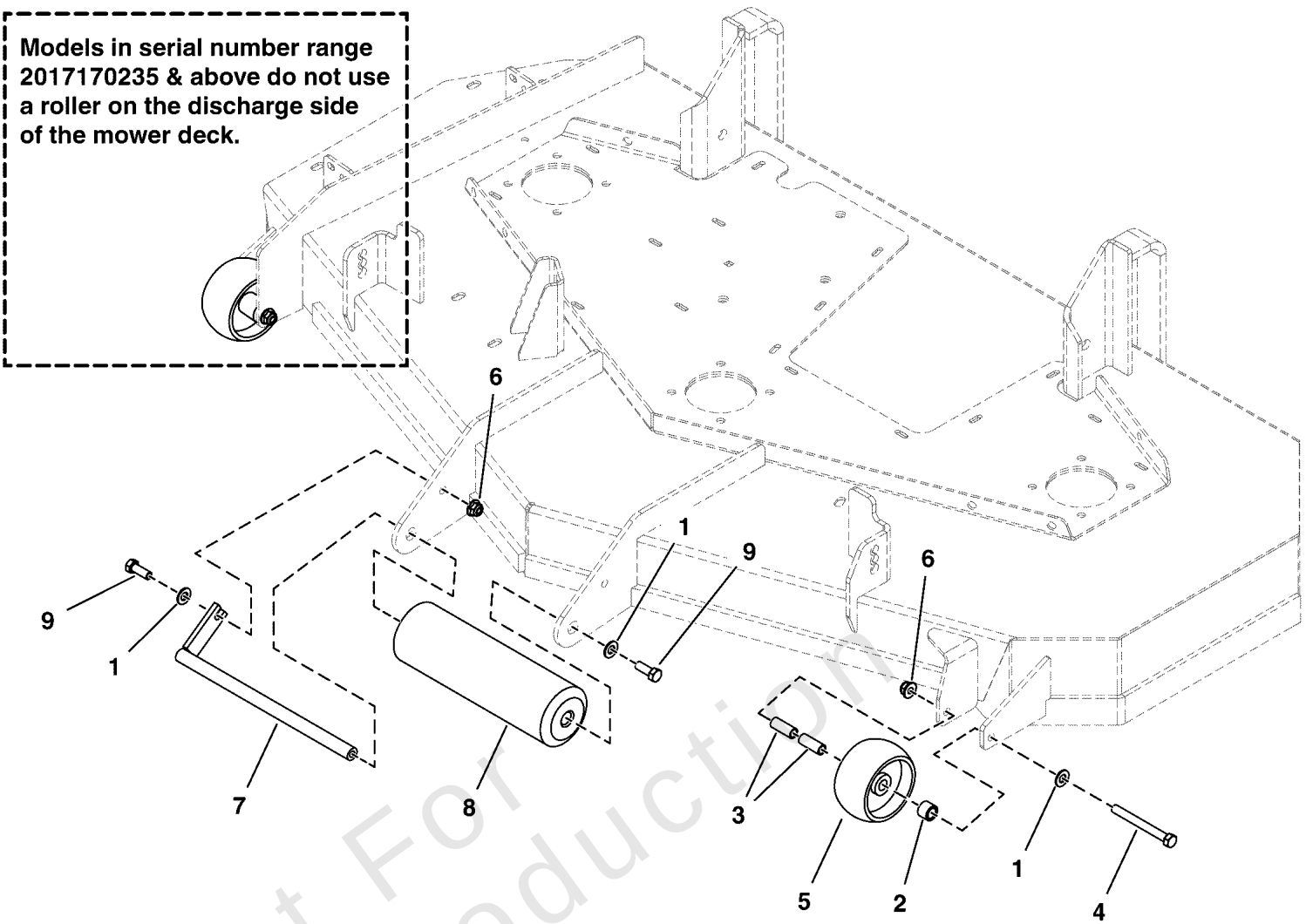
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5300793

5304297

Models in serial number range
2017170235 & above do not use
a roller on the discharge side
of the mower deck.



52" Mower Deck - Rollers

REF NO	PART NO	QTY	DESCRIPTION
1	5025156	4	WASHER, 3/8 SAE
2	5047027	2	SPACER, .51 X .75 X .56, CZ
3	5041931	4	SPACER, .38 X .50 X 1.25, CZ
4	5025013X28	2	BOLT, 3/8-16 X 3-1/2" GD5 CZ
5	1714760	2	WHEEL- 2.00 WIDE 3.88 DIA 0.531ID POLY
6	5025394	3	NUT, 3/8-16 HEX NYLOCK FLANGE
7	5041655A	1	USE 5105755 - WELD, BRKT,ROLLER PIN,BLK
8	5020785	1	ROLLER, DECK
9	5025013X8	2	BOLT, 3/8-16 X 1" GD5 CZ

Decal Group - Brand & Model S/N: 2017243271 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5304102
5304103
5304105



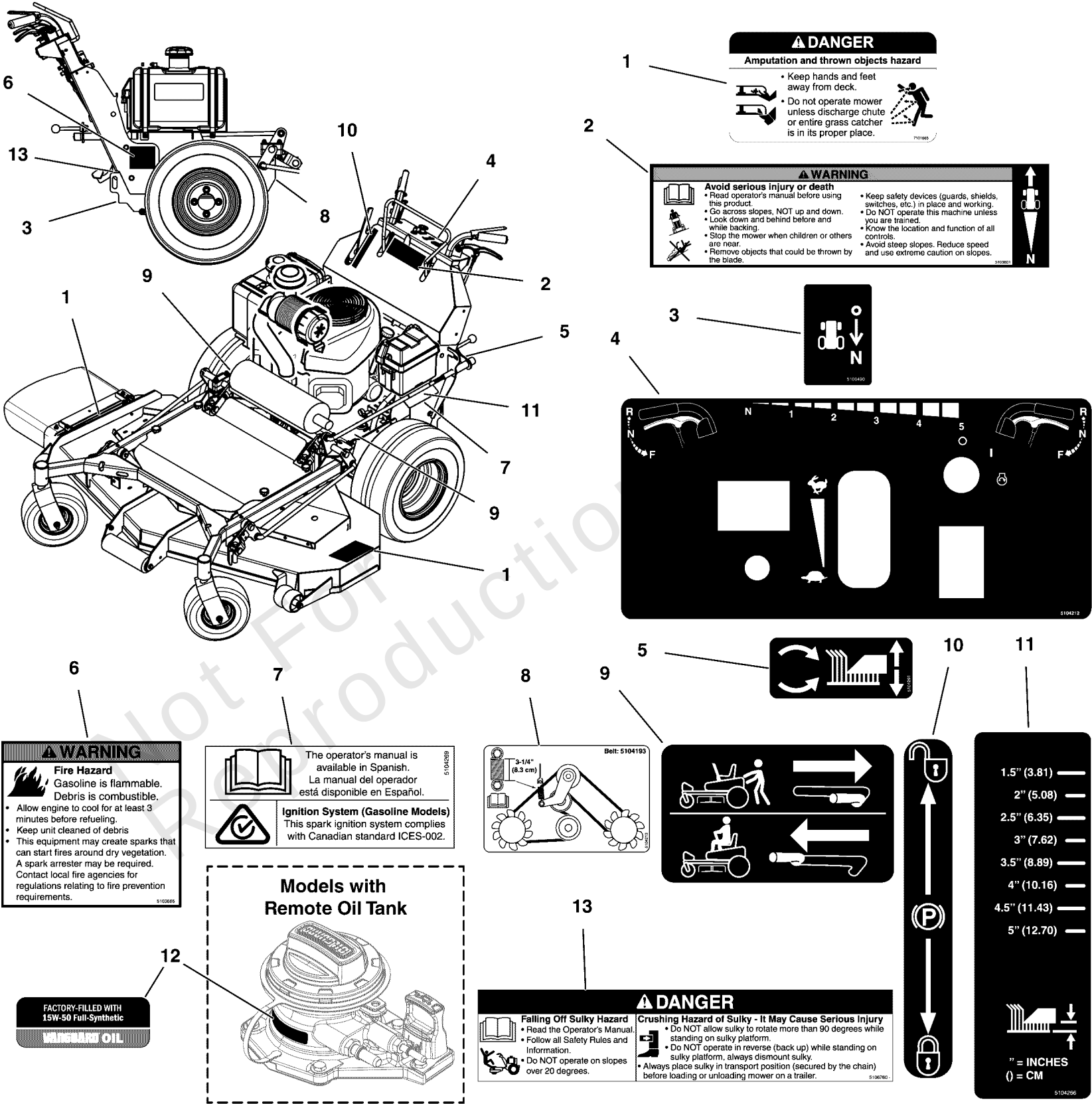
Decal Group - Brand & Model S/N: 2017243271 & Above

REF NO	PART NO	QTY	DESCRIPTION
1	5022811	1	DECAL, 48 -(Models with 48" Mower Decks)
2	5022812	1	DECAL, 52 -(Models with 52" Mower Decks)
3	5022813	1	DECAL, 61 -(Models with 61" Mower Decks)
4	5104767FS	1	DECAL, BRAND
5	5104764FS	1	DECAL, MODEL
6	5103799	1	DECAL, FERRIS, 2.23" X 11.39"
7	5104518	1	DECAL, CENTRALIZED CONTROLS -(Models with Centralized Controls)

Decal Group - Safety & Operation

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599



Decal Group - Safety & Operation

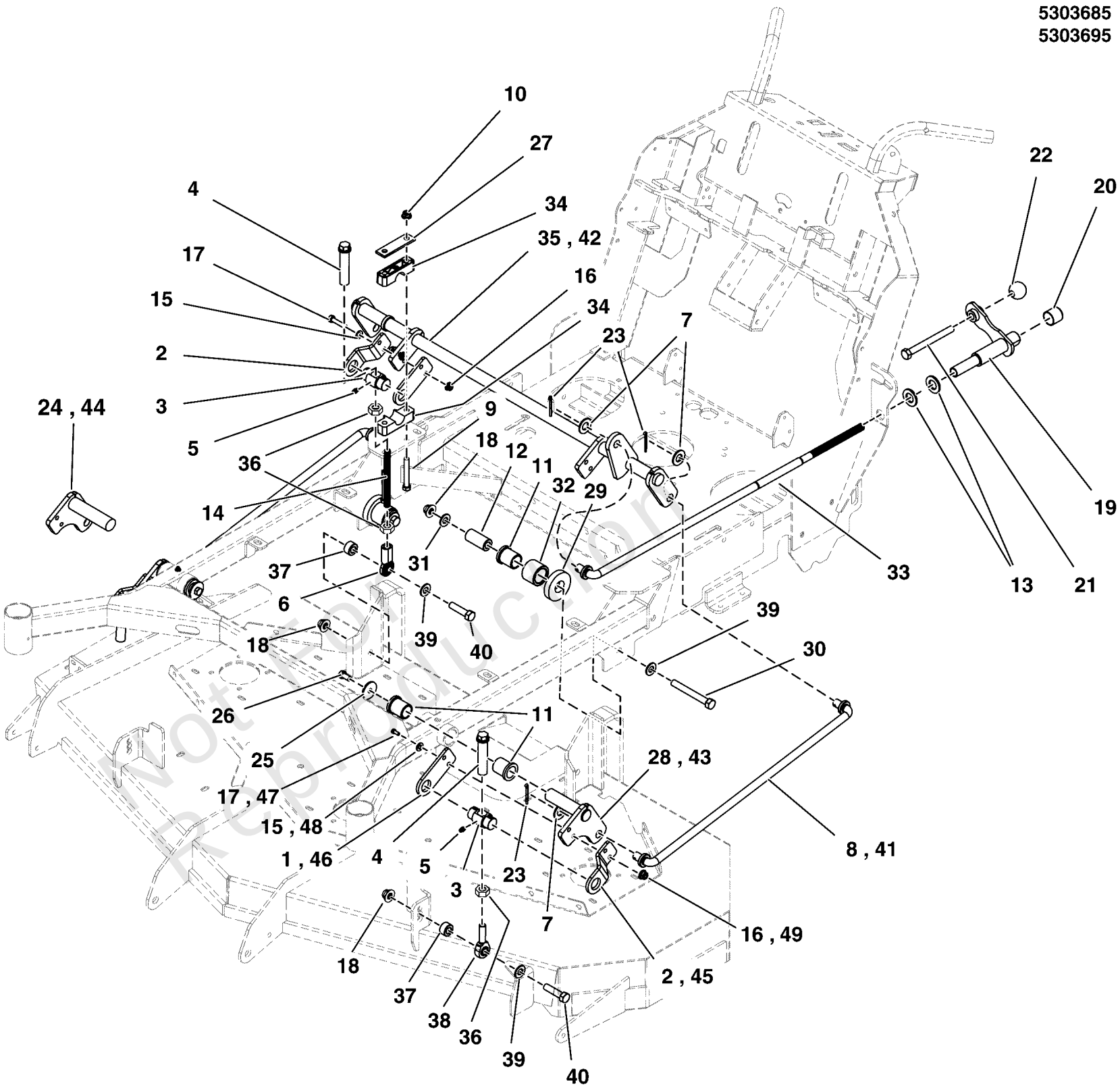
REF NO	PART NO	QTY	DESCRIPTION
1	7101665	2	DECAL, DANGER DO NOT OPERATE W/O DEFLECT
2	5103601	1	DECAL, WARNING, WALKS
3	5100490	2	DECAL, PEDAL
4	5104566	1	DECAL, DASH PANEL, WKB, MAN/ELEC START
5	5101291	1	DECAL, CUT HEIGHT, SPDD
6	5103665	1	DECAL, FIRE HARARD, 3.25W X 3.0H
7	5104269	1	DECAL, SPANISH MANUAL, IGES, C-TICK
8	5104213	1	DECAL, BELT ROUTING, F/SW35
9	5104268	2	DECAL, TRANSAXLE RELEASE, WB
10	5102628	1	DECAL, PARKING BRAKE SYMBOLS
11	5104266	1	DECAL, CUT HEIGHT, WB, 1.5"-5"
12	-----	1	LABEL, OIL INFORMATION -(Models w/ Remote Oil Tank Only)
13	5106760	1	DECAL, MAIN SAFETY, SULKY -(S/N: 4000036919 & Above)

Deck Lift Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5303685
5303695



Deck Lift Group

REF NO	PART NO	QTY	DESCRIPTION
44	5413896A	1	WELD, DECK LIFT LEVER, RH - BLK -(S/N: 2017102064 & Above)
45	5413899A	4	BRACKET, OUTER TRUNION MNT - BLK -(S/N: 2017102064 & Above)
46	5413900A	4	BRACKET, INNER TRUNION MNT - BLK -(S/N: 2017102064 & Above)
47	5025013X12	8	BOLT, 3/8-16 X 1-1/2" GD5 CZ -(S/N: 2017102064 & Above)
48	5025156	8	WASHER, 3/8 SAE -(S/N: 2017102064 & Above)
49	5025394	8	NUT, 3/8-16 HEX NYLOCK FLANGE -(S/N: 2017102064 & Above)

Deck Lift Group

REF NO	PART NO	QTY	DESCRIPTION
1	5412287A	4	BRACKET, INNER TRUNION MOUNT - BLK -(S/N: 2017102063 & Below)
2	5412286A	4	BRACKET, OUTER TRUNION MOUNT - BLK -(S/N: 2017102063 & Below)
3	5104238	4	PIVOT, DECK LIFT TRUNION, GREASABLE
4	5109915FS	4	ADJUSTER, HEIGHT
5	5020095	4	GREASE FITTING, 1/4-28 STRAIGHT
6	1702779	2	JOINT-BALL .500-20 THD .500ID, CLR ZINC
7	5025281	5	WASHER, 5/8 SAE
8	5104208	2	ROD, DECK LIFT TIMING, 61 -(Models with 61" Mower Decks Only)
9	5025013X22	4	BOLT, 3/8-16 X 2-3/4" GD5 CZ
10	5025394	4	NUT, 3/8-16 HEX NYLOCK FLANGE
11	5021541	6	BUSHING, FLANGE
12	5100732	2	SPACER, .52 X 1.00 X 2.09 - SS
13	5025160	2	WASHER, 3/4 SAE
14	5102665	2	ROD, 1/2-20 X 5.50 TFL, CZ
15	5025155	8	WASHER, 5/16" SAE -(S/N: 2017102063 & Below)
16	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE -(S/N: 2017102063 & Below)
17	5025011X12	8	BOLT, 5/16-18, GD5 CZ -(S/N: 2017102063 & Below)
18	5025396	6	NUT, Hex Flange, Nylock, 1/2-13
19	5102774A	1	DECK CRANK, SW30 - BLK
20	5102086	1	CAP, VINYL, 1.062 X 1.00 BLK
21	5025017X40	1	BOLT-1/2-13 X 5 GD5 CZ
22	5021733	1	KNOB, PLASTIC, 1/2-13
23	5025203X10	5	PIN, COTTER, 1/8 X 1-1/4
24	5412177A	1	WELD, DECK LIFT LEVER, RH - BLK -(S/N: 2017102063 & Below)
25	5100548	2	WASHER, .390 X 1.50 X .109, YZ
26	5025443	2	BOLT, 3/8-16 X 3/4, PLT W/PATCH
27	5403925A	2	PLATE, PIVOT BLOCK SUPPORT - BLK
28	5412176A	1	WELD, DECK LIFT LEVER, LH - BLK -(S/N: 2017102063 & Below)
29	5061010	2	WASHER, FRICTION
30	5025017X26	2	BOLT, 1/2-13 X 3-1/4, HEX HD, GD5, CZ (SV)
31	5025150	2	WASHER, 1/2 USS
32	5100731	2	ROLLER, DECK HEIGHT
33	5104220	1	ROD, DECK HEIGHT
34	5100634	4	PIVOT BLOCK, PLASTIC
35	5411918A	1	WELD, SHAFT, DECK LIFT, SW35 - BLK -(S/N: 2017102063 & Below)
36	5025089	2	NUT, 1/2-20 HEX JAM
37	5105392	4	WASHER, .515 X 1.00 X .25", CZ
38	5104267	2	BALL JOINT, 1/2-20, RH, MALE, METAL RACE
39	5025158	6	WASHER, 1/2 SAE
40	5025017X16	4	BOLT, 1/2-13 X 2" GD5 CZ
41	5104209	2	ROD, DECK LIFT TIMING, 48-52 -(Models with 48" or 52" Mower Decks Only)
42	5413894A	1	WELD, SHAFT, DECK LIFT, SW35 - BLK -(S/N: 2017102064 & Above)
43	5413895A	1	WELD, DECK LIFT LEVER, LH - BLK -(S/N: 2017102064 & Above)

Electrical Group - Electric Start Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

Refer to Serial Number Ranges in Parts Listing

22 , 30 - Wire Harness, Kawasaki Engine

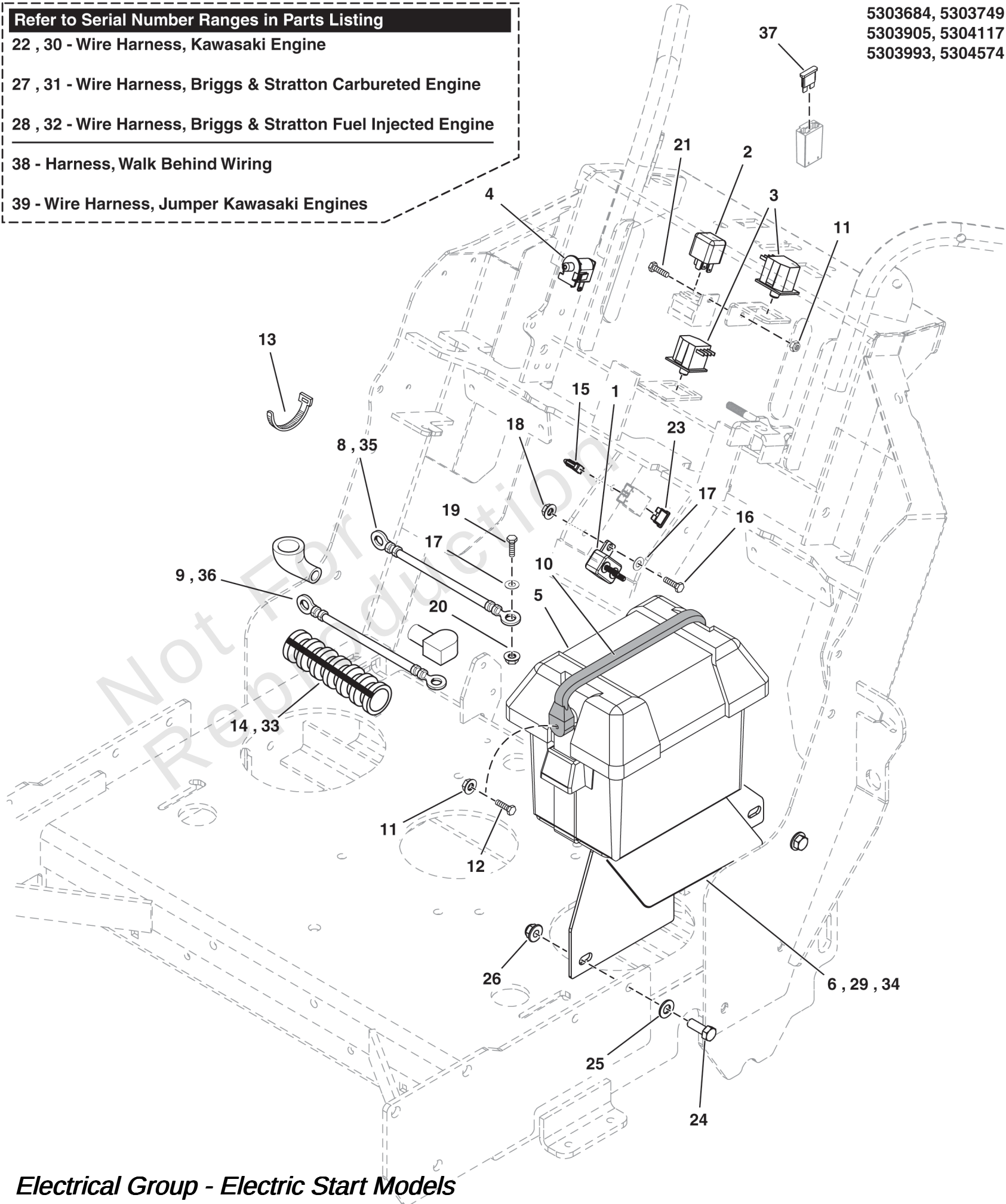
27 , 31 - Wire Harness, Briggs & Stratton Carbureted Engine

28 , 32 - Wire Harness, Briggs & Stratton Fuel Injected Engine

38 - Harness, Walk Behind Wiring

39 - Wire Harness, Jumper Kawasaki Engines

5303684, 5303749
5303905, 5304117
5303993, 5304574



Electrical Group - Electric Start Models

REF NO	PART NO	QTY	DESCRIPTION
36	5105300	1	BATTERY CABLE, POS, 47, 1/4-5/16 -(Models with Remote Oil Tank Only)
37	5021603	1	FUSE, ATO-20 (20 AMP)(SV) -(SV)(S/N: 2017711826 & Above)
38	5105538	1	HARNESS, WALK BEHIND, WIRING -(S/N: 2017954956 & Above)
39	5105303	1	WIRE HARNESS, JUMPER, KAWI - LARGE HARNE -(Kawi Models - S/N: 2017954956 & Above)

Electrical Group - Electric Start Models

REF NO	PART NO	QTY	DESCRIPTION
1	1665238	1	BREAKER CIRCUIT 12VOLT 20AMPS W/TAB -(S/N: 2017711825 & Below)
2	5021766	1	RELAY, 12 VOLT, 40 AMP
3	5101280	2	SWITCH, PLUNGER, NO/NC SNAP-IN, LOW PROFILE
4	1704379	1	SWITCH-PUSH BUTTON OP PRES BLACK SNAP IN -(S/N: 2016973573 & Below)
5	5100688	1	BATTERY BOX, W/ DRAIN HOLE
6	5412210A	1	WELD, BATTERY MOUNT, SW35 - BLK -(S/N: 2017170234 & Below)
7	-----	1	BATTERY -(Not illustrated)
8	5101396	1	CABLE, BATTERY, NEG, 30, 1/4-5/16 -(All other models)
9	5044876	1	BATTERY CABLE, POS, 35, 1/4-5/16 -(All other models)
10	5021670	1	STRAP, RUBBER
11	5025271	3	NUT, Hex, Nylon Lock, #10-24
12	5025270	2	SCREW, #10-24 X 1 RS, CZ
13	5021029	8	TIE, SELF-LOCKING, 12"
14	5050927X27	1	WIRE LOOM, 3/8 ID X 27" LONG -(All other models)
15	5103761	2	FIR TREE MOUNT, PACKARD
16	5025010X6	1	BOLT, 1/4"-20 X 3/4" GD5 YZ
17	5025154	3	WASHER, 1/4 SAE
18	5025391	1	NUT, 1/4-20 Hex Nylock Flange
19	-----	2	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
20	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
21	5025179X4	1	SCREW, #10-24 X 1/2" ROUND PHILLIPS
22	5412164	1	WIRE HARNESS, SW35/FW35 KAWI -(Kawi Models - S/N: 2016973573 & Below)
22	5413415	1	WIRE HARNESS, SW35, KAWI, NO BRAKE -(Kawi Models - S/N: 2016973574 - 2017711825)
23	5101935	1	FUSE, ATO-15 (15 AMP)(SV) -(SV)
24	5025013X8	3	BOLT, 3/8-16 X 1" GD5 CZ -(Qty: 2 - All other models)
25	5025156	3	WASHER, 3/8 SAE -(Qty: 2 - All other models)
26	5025394	3	NUT, 3/8 - 16 HEX NYLOCK FLANGE -(Qty: 2 - All other models)
27	5413416	1	WIRE HARNESS, SW35, BV, NO BRAKE -(B&S Carbureted Models - S/N: 2017711825 & Below)
28	5413167	1	WIRE HARNESS, SW/FW35 BVE 28 -(B&S EFI Models - S/N: 2017711825 & Below)
29	5413945A	1	WELD, BATTERY MOUNT, W35 - BLK -(All other models - S/N: 2017170235 & Above)
30	5416150	1	WIRE HARNESS, W35, KAWI, NO BRAKE -(Kawi Models - S/N: 2017711826 - 2017954956)
31	5416163	1	WIRE HARNESS, W35, BV, NO BRAKE -(B&S Carbureted Models - S/N: 2017711826 - 2017954956)
32	5416151	1	WIRE HARNESS, W35, BVE 28, NO BRAKE -(B&S EFI Models - S/N: 2017711826 2017954956)
33	5050927X29	1	WIRE LOOM, 3/8" ID X 29.00 IN -(Models with Remote Oil Tank Only)
34	5415329A	1	WELD, MOUNT-BATTERY, W35 - BLK -(Models with Remote Oil Tank Only)
35	5105301	1	BATTERY CABLE, NEG, 42, 1/4-5/16 -(Models with Remote Oil Tank Only)

Electrical Schematic - Charging Circuit B&S EFI S/N: 2017954956 & Above

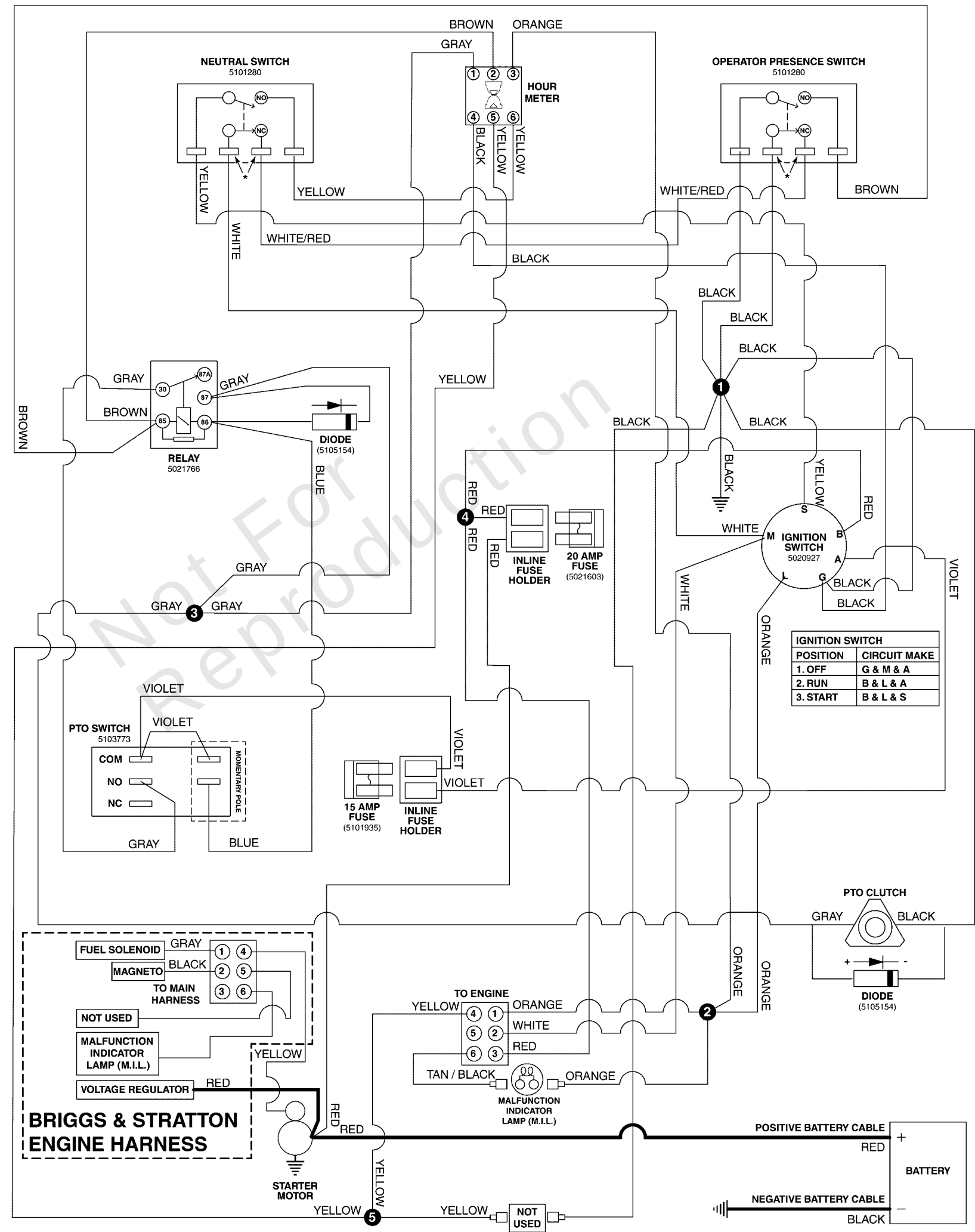
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5105538 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

5105538D

(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.)
*This switch uses a "shorting" connector. When the connector is unplugged, the terminals going to the identified pole will have continuity.



Electrical Schematic - Charging Circuit B&S EFI S/N: 2017954956 & Above

REF NO	PART NO	QTY	DESCRIPTION
5105538	5105538	1	HARNESS, WALK BEHIND, WIRING

Electrical Schematic - Cranking Circuit B&S EFI S/N: 2017954956 & Above

Note: Unless noted otherwise, use the standard torque specifications

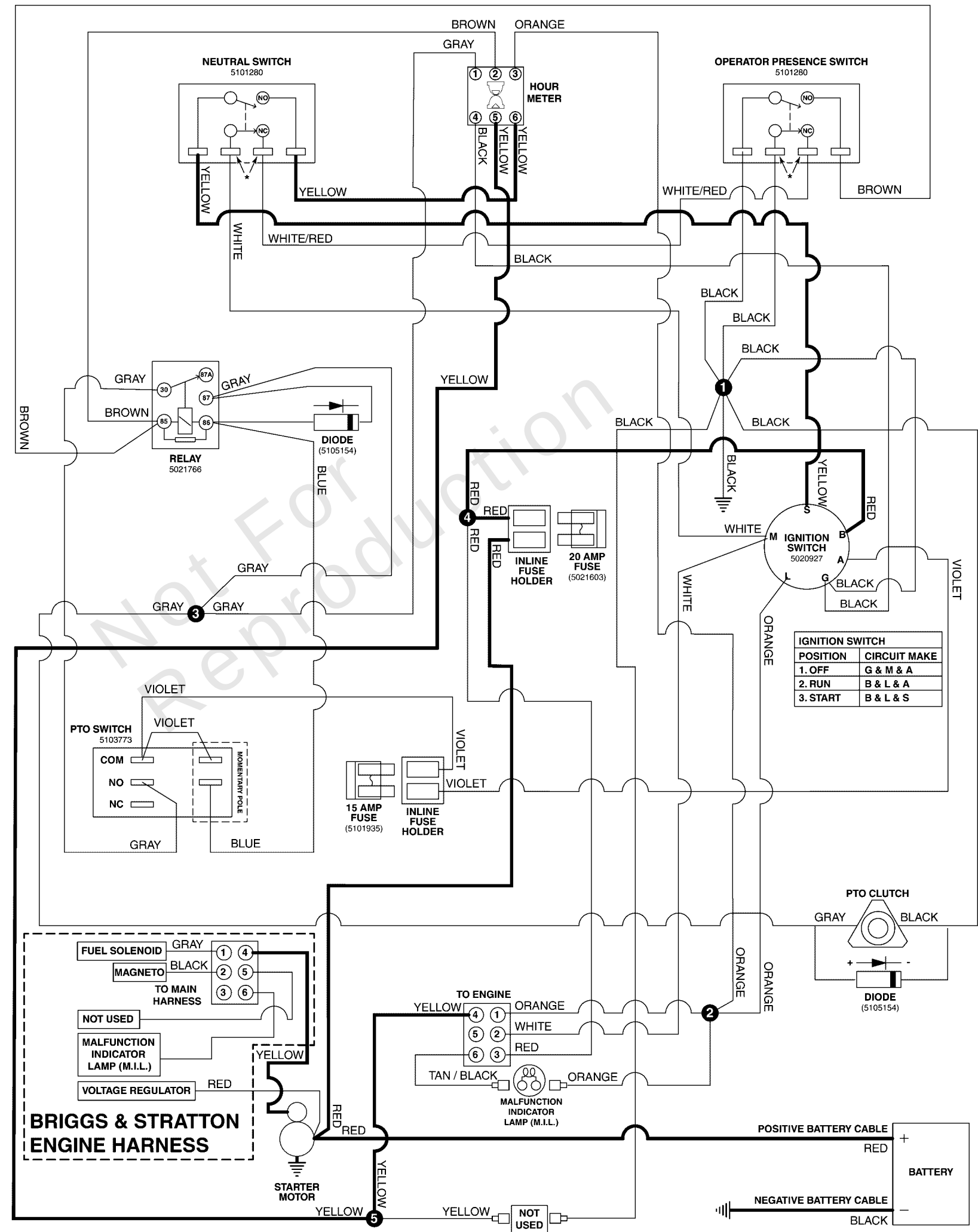
Mfg. No: 5901599

5105538 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

5105538D

(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.)

*This switch uses a "shorting" connector. When the connector is unplugged, the terminals going to the identified pole will have continuity.



Electrical Schematic - Cranking Circuit B&S EFI S/N: 2017954956 & Above

REF NO	PART NO	QTY	DESCRIPTION
5105538	5105538	1	HARNESS, WALK BEHIND, WIRING

Electrical Schematic - Engine Op. Pres. Circuit B&S EFI S/N: 2017954956 & Above

Note: Unless noted otherwise, use the standard torque specifications

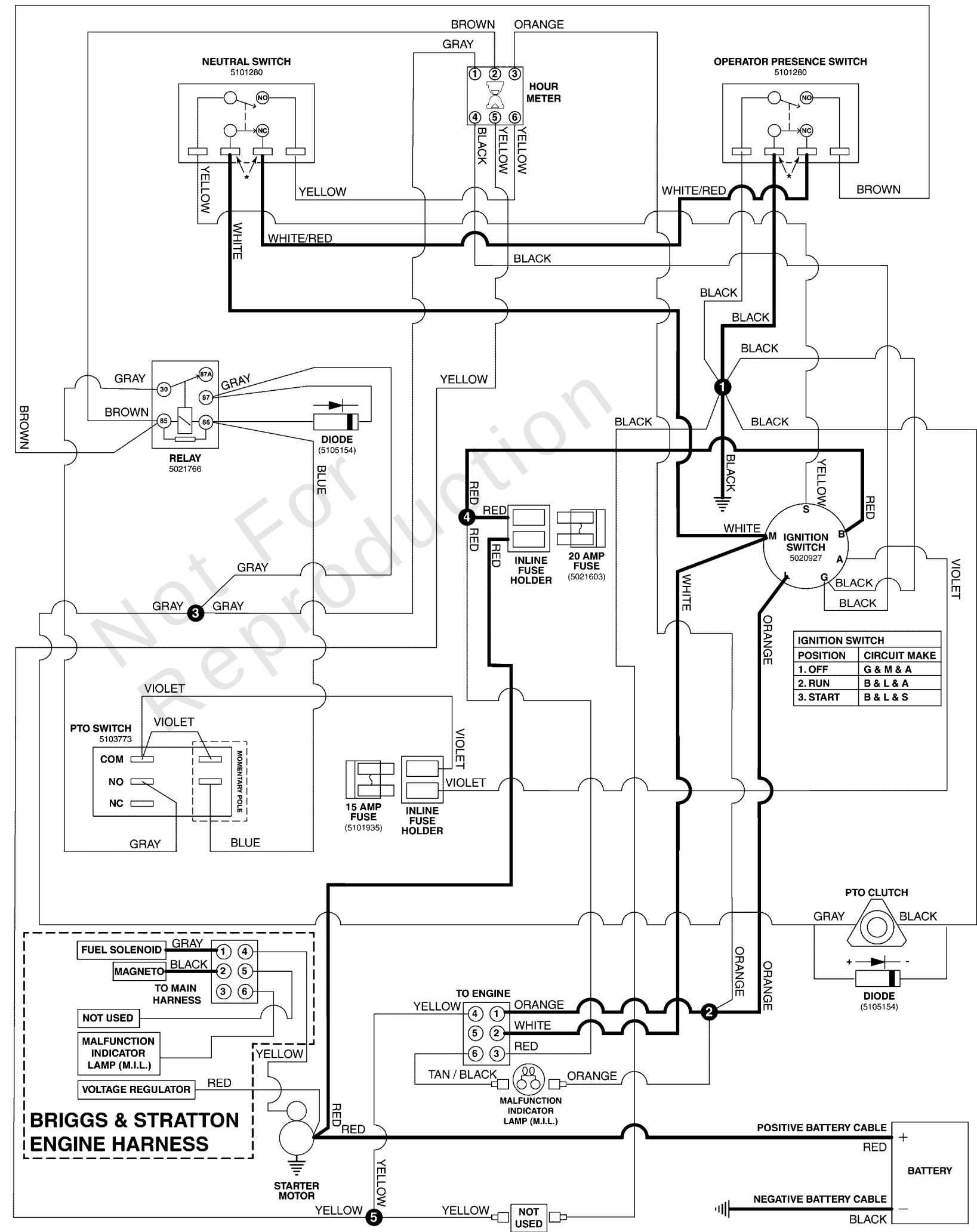
Mfg. No: 5901599

5105538 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

5105538D

(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.)

*This switch uses a "shorting" connector. When the connector is unplugged, the terminals going to the identified pole will have continuity.



Electrical Schematic - Engine Op. Pres. Circuit B&S EFI S/N: 2017954956 & Above

REF NO	PART NO	QTY	DESCRIPTION
5105538	5105538	1	HARNESS, WALK BEHIND, WIRING

Engine & PTO Group - Briggs & Stratton EFI (Remote Oil Tank) S/N: 4001694244 and

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5304709E

Hardware for
securing right
front of B&S EFI
engine to frame

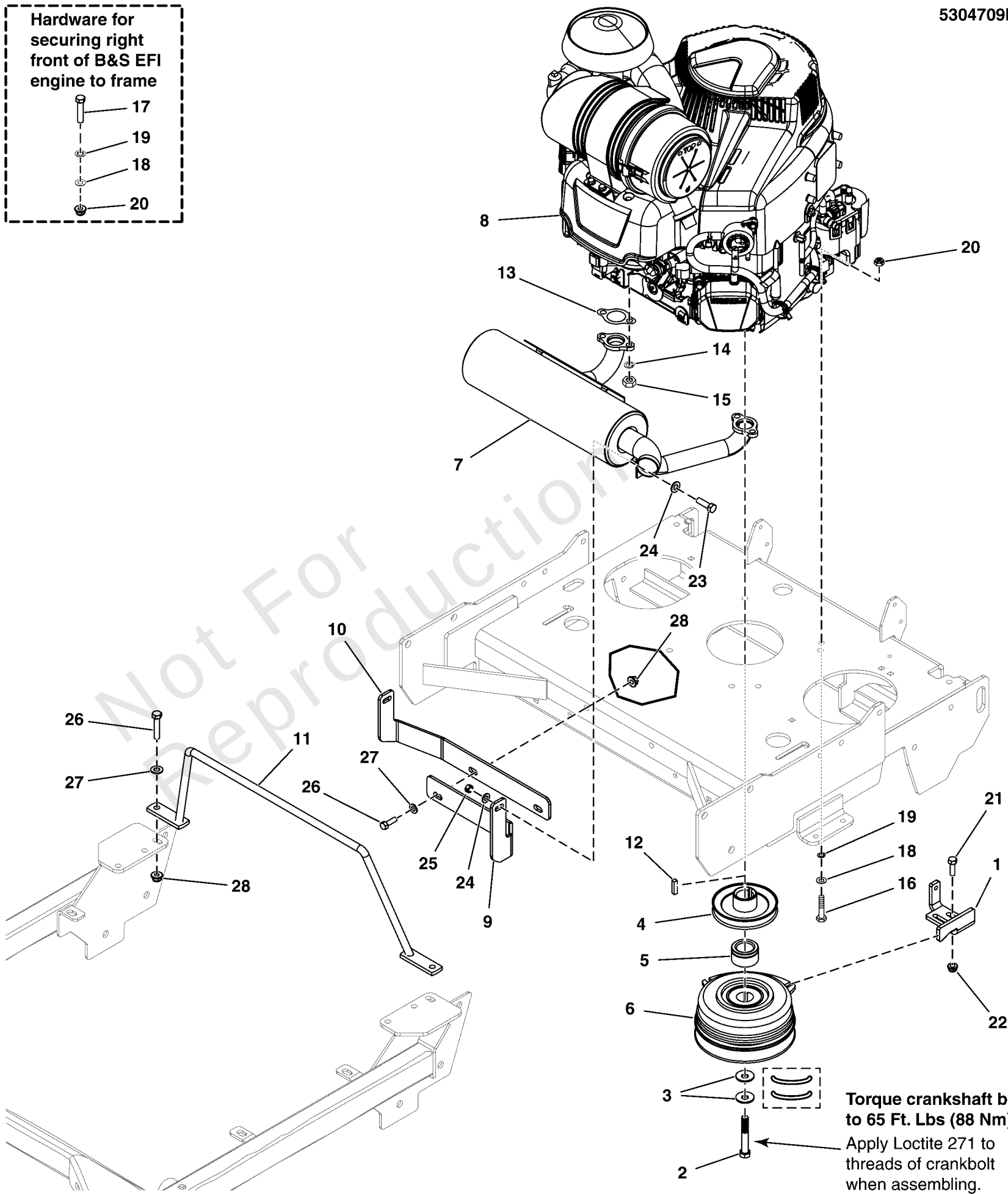


17

19

18

20



Engine & PTO Group - Briggs & Stratton EFI (Remote Oil Tank) S/N: 4001694244 and

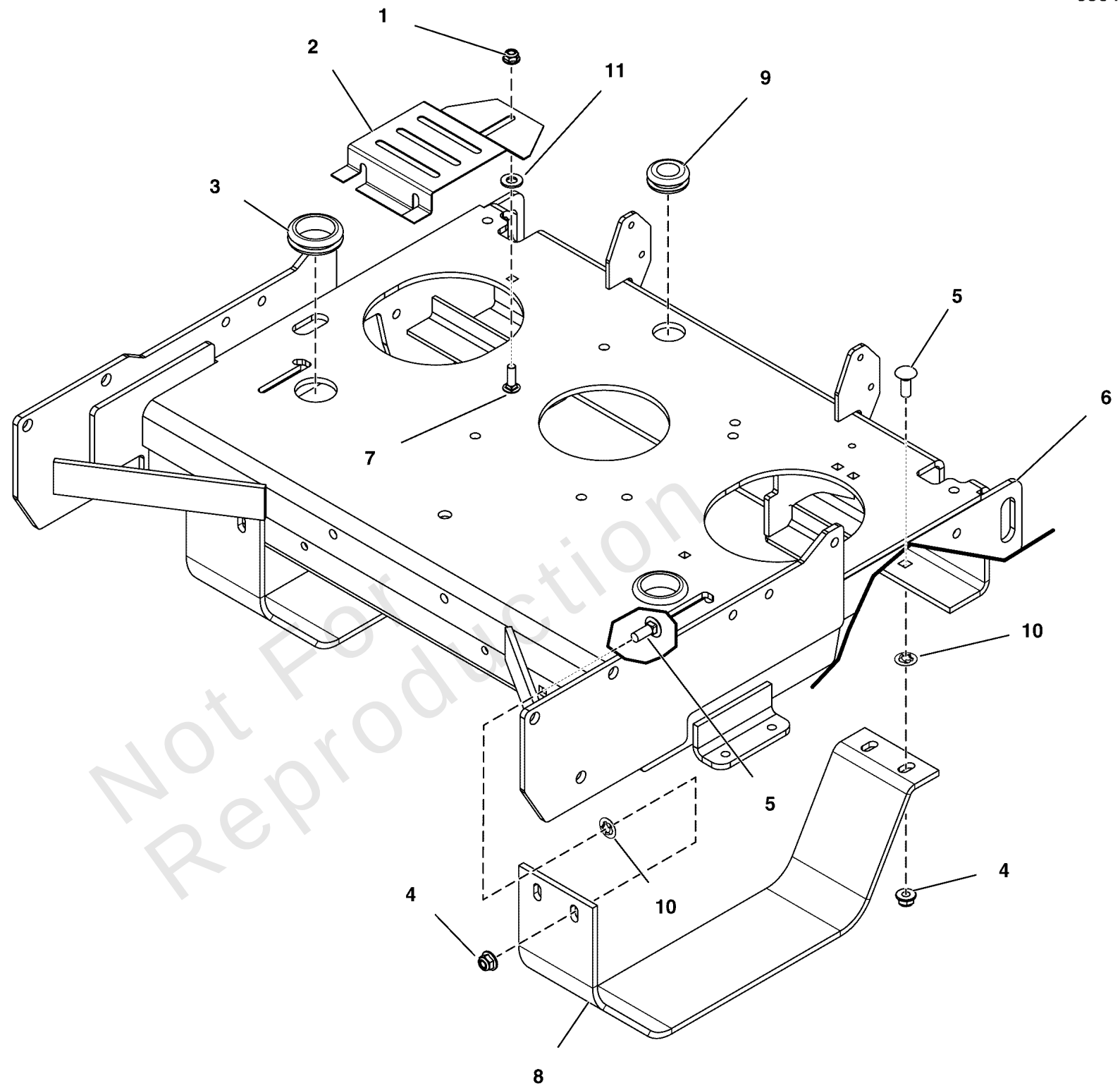
REF NO	PART NO	QTY	DESCRIPTION
1	5412326A	1	PLATE, CLUTCH ANCHOR - BLK
2	5102865	1	BOLT, CRANKSHAFT,7/16-20X2-3/4, GD8
3	5025585	2	BELLEVILLE WASHER 1.1875 X .442 X .089
4	5104236	1	PULLEY, CRANKSHAFT, 1.125ID X 4.50OD, OS
5	5047033	1	SPACER, 1.13 X 1.75 X 1.03, CZ
6	5105090	1	CLUTCH,WARNER,200 'lbs,1.13
7	5104355	1	MUFFLER, 26/28, B&S VANG, EFI TWR/WALK
8	-----	1	ENGINE, B&S, EFI, OIL GUARD (49E877-0008-G1) -(S/N: 4001858852 and below)
8	-----	1	BRIGGS & STRATTON ENGINE, 49E877-0021-G1 -(S/N: 4001858853 and above)
9	5415276A	1	PLATE, MUFFLER SUPPORT, LH, W35 - BLK
10	5415277A	1	PLATE, MUFFLER SUPPORT, RH, W35 - BLK
11	5412353AA	1	WELD, MUFFLER GUARD - BLK
12	5050407X8	1	KEY, 1/4 SQ X 1
13	273485	2	GASKET, EXHAUST
14	5023217	4	WASHER, 5/16 LIGHT LOCK
15	5025032	4	NUT, 5/16-18 HEX
16	5025025X14	3	BOLT, 5/16-24 X 1-3/4, GD8, PHOS
17	5025025X12	1	BOLT, 5/16-24 X 1-1/2, GD8, PHOS
18	5025155	6	WASHER, 5/16" SAE
19	5025188	4	WASHER, 5/16 INT. TOOTH LOCK
20	5025616	4	NUT, 5/16-24, TOP LOCK FLANGE, GD8 PHOS
21	5025145X8	2	BOLT, 5/16-18 X 1, CARRIAGE
22	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE
23	5025011X8	10	BOLT, 5/16-18 X 1 GD5 CZ
24	5025292	4	WASHER, 5/16 F436 FLAT
25	80003675	2	NUT, 5/16-18, HEX, CNTR LK,ZINC PHOS/OIL
26	5025013X10	6	BOLT, 3/8-16 X 1-1/4" GD5 CZ
27	5025156	6	WASHER, 3/8 SAE
28	5025394	6	NUT, 3/8-16 HEX NYLOCK FLANGE

Engine Deck Group - Models w/ Remote Engine Oil Tank

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5304951



Engine Deck Group - Models w/ Remote Engine Oil Tank

REF NO	PART NO	QTY	DESCRIPTION
1	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE
2	5412030A	1	PLATE, FAN GUARD - BLK
3	5102677	2	GROMMET, 1-1/2" ID FOR 1/4" METAL
4	5025394	8	NUT, 3/8-16 HEX NYLOCK FLANGE
5	80004497	8	BOLT,3/8-16X1.000,RND HD CRRG,ZINC/CLEAR
6	5413681B	1	WELD, ENGINE DECK, W35 - RED
7	5025145X8	3	BOLT, 5/16-18 X 1, CARRIAGE
8	5412069A	2	PLATE, TRANS GUARD, SW30 - BLK
9	5103944	1	GROMMET, 7/8"ID, 1/4" THICK STK
10	80005327	8	RETAINER,3/8,PUSHNUT,ZINC/CLEAR
11	5025498	3	5/16 PUSH-ON NUT RETAINER, STL, CZ

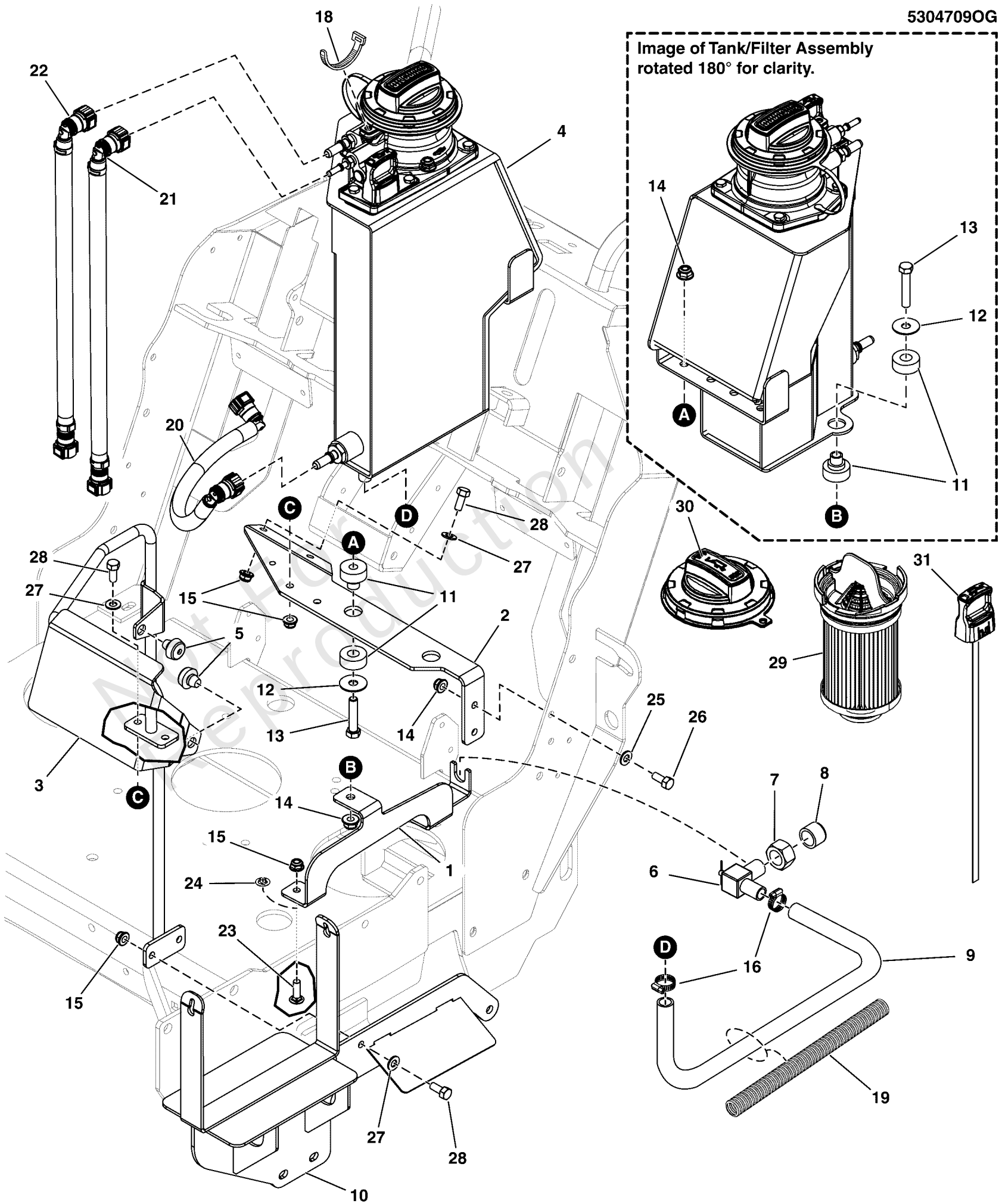
Engine Remote Oil Tank, Hoses, & Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

53047090G

Image of Tank/Filter Assembly
rotated 180° for clarity.



If associated part number
is not listed see Authorized
Briggs & Stratton dealer
for service parts.

15W-50 Synthetic Oil

32 - 15W-50 Synthetic Oil, Case of 12 1 QT bottles

33 - 15W-50 Synthetic Oil, Case of 4 5 QT bottles

Engine Remote Oil Tank, Hoses, & Mount Group

REF NO	PART NO	QTY	DESCRIPTION
1	5415069A	1	TANK MOUNT, LOWER, W35 - BLK
2	5415327A	1	TANK MOUNT, TOP, W35 - BLK
3	5415916A	1	WELD, TANK GUARD, W35 - BLK
4	595945	1	TANK, Oil -(Refer to Note: *) (S/N: 4001858852 and below)
4	84006647	1	TANK, OIL -(Refer to Note: *) (S/N: 4001858853 and above)
5	197546	2	MNT, VBRTN, RBBR
6	5105177	1	VALVE, OIL DRAIN, M16X1.5 TO 1/2"
7	5105318	1	NUT, HEX, M16-1.5, DAPCO 4071
8	5105317	1	OIL DRAIN CAP, OIL GUARD, DAPCO 4692
9	5105492	1	HOSE, Formed, Oil Guard
10	-----	0	Refer to: Electrical Group
11	5023131	3	MOUNT, ISO, BOTTOM, RAD 5000Z-DIESEL
12	5025165	3	WASHER, 3/8" Fender
13	5025013X14	3	BOLT, 3/8-16 X 1-3/4" GD5 CZ
14	5025394	5	NUT, 3/8 - 16 HEX NYLOCK FLANGE
15	5025392	12	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
16	5021392	2	CLAMP, #6 HOSE, STAINLESS
18	-----	1	TIE, Cable, Yellow 7.6"
19	5050862X8	1	WIRE LOOM, 3/4 ID X 8.00" LG
20	84006650	1	HOSE, OIL SUPPLY -(Refer to Note: *) (S/N: 4001858852 and below)
20	84006649	1	HOSE, OIL SUPPLY -(Refer to Note: *) (S/N: 4001858853 and above)
21	595943	1	HOSE, Oil Vent -(Refer to Note: *)
22	84006661	1	HOSE, OIL SCAVENGE -(Refer to Note: *)
23	5025145X8	2	BOLT, 5/16-18 X 1, CARRIAGE, GD5, CZ
24	5025498	2	5/16" PUSH-ON NUT RETAINER, STL, CZ
25	5025156	2	WASHER, 3/8 SAE
26	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
27	5025155	12	WASHER, 5/16" SAE
28	5025011X8	10	BOLT, 5/16-18 X 1" GRD5 YZ
29	84007094	1	FILTER, OIL
30	595931	1	CAP, Oil Fill
31	595934	1	DIPSTICK
32	5105281	1	OIL, 15W-50, SYNTHETIC, CASE X 12- 1QT
33	5105282	1	OIL, 15W-50, SYNTHETIC, CASE X 4- 5QT

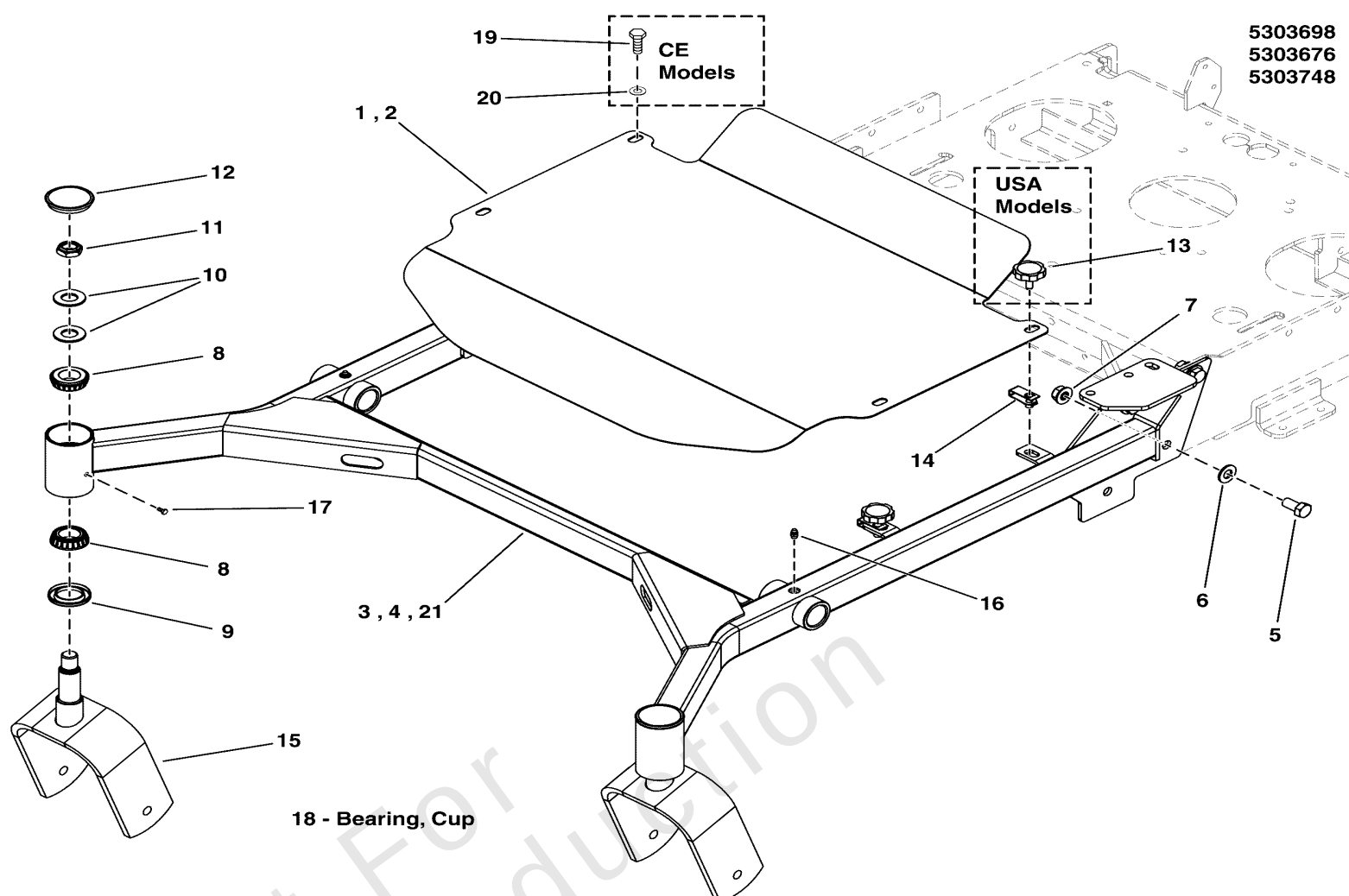
Footnotes:

Note: *Order Oil Guard replacement parts from your Authorized Briggs & Stratton Engine Service Provider

Front Frame Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599



Front Frame Group

REF NO	PART NO	QTY	DESCRIPTION
1	5412193B	1	GUARD, WALK, FRONT FRAME, 48-52 - RED -(48" and 52" Decks)
2	5412223B	1	GUARD, WALK, FRONT FRAME, 61 - RED -(61" Decks)
3	5412127B	1	WELD, FRONT FRAME, WALK-48-52 - RED -(48" & 52" Decks - S/N: 2017170234 & Below)
4	5422119B	1	WELD, FRONT FRAME, W45, 61 - RED -(61" Decks)
5	5025017X10	6	BOLT, 1/2-13 X 1-1/4 GD5 CZ
6	5025158	6	WASHER, 1/2 SAE
7	5025396	6	NUT, Hex Flange, Nylock, 1/2-13
8	5020884	4	BEARING, TAPERED ROLLER, 1
9	5021072	2	SEAL, GREASE
10	5025449	4	WASHER, BELLEVILLE - 1.500 X .755
11	5025448	2	NUT, 3/4-16, HEX JAM NYLON LOCK
12	5109845	2	CAP, GREASE, LOW PROFILE
13	5108141	4	KNOB, 5/16-18 X 1.00, ROSETTE, BLK -(USA Models Only)
14	5022308	4	BODY CLIP, 5/16-18-7GA MATERIAL
15	5401759B	2	WELD, FRONT CASTER YOKES - RED
16	5020095	2	GREASE FITTING, 1/4-28 STRAIGHT
17	5025457	2	BOLT, 1/4-28 X 1/2, GD5 YZ
18	5020883	2	BEARING, CUP -(SV)
19	5025011X8	4	BOLT, 5/16-18 X 1 GD5 CZ -(CE Models Only)
20	5025155	4	WASHER, 5/16" SAE -(CE Models Only)
21	5422126B	1	WELD, FRONT FRAME, W45, 478/52 - RED -(48" & 52" Decks - S/N: 2017170235 & Above)

Fuel Tank & Mount, Fuel Supply, and EVAP Group (No Canister)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

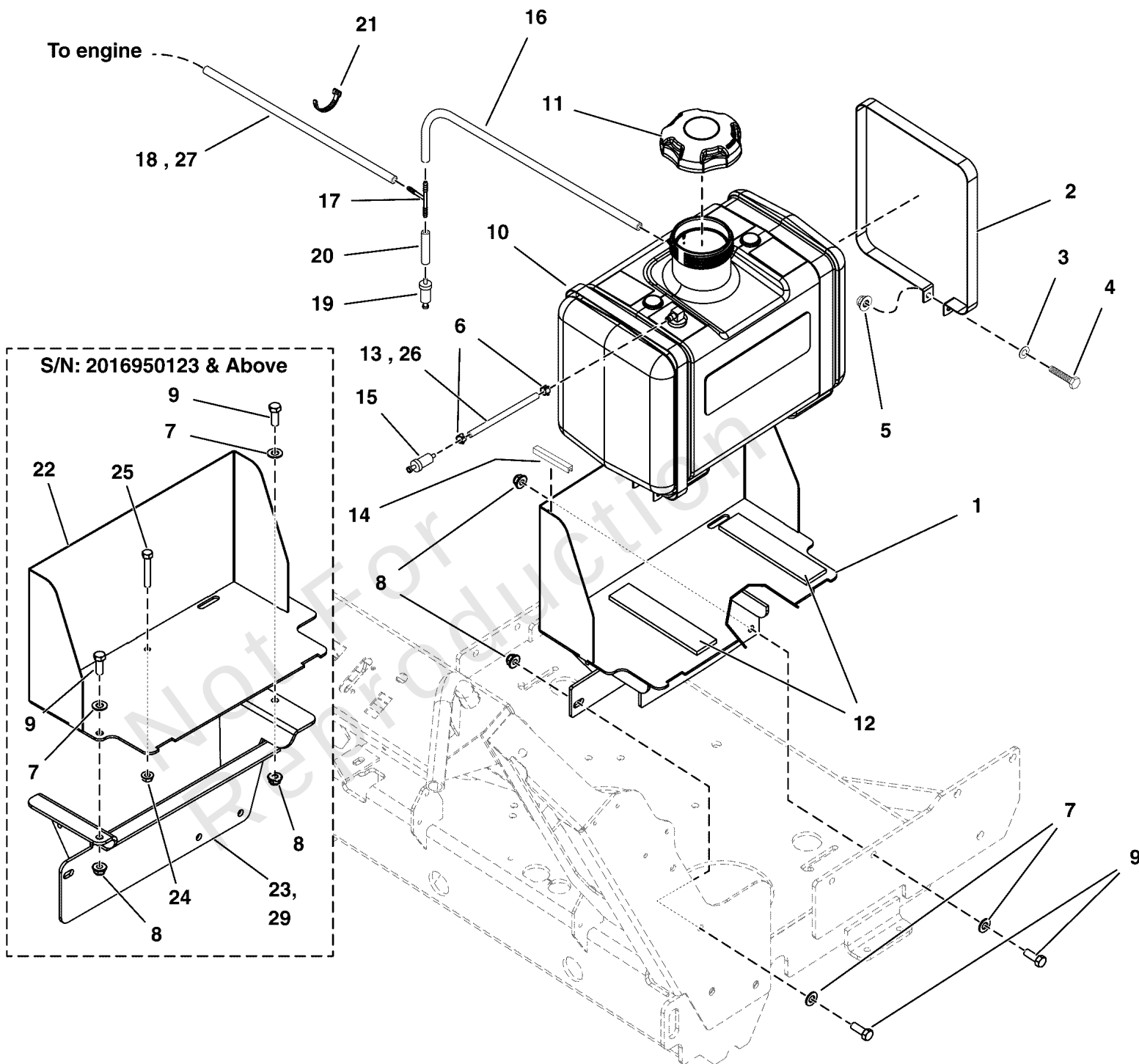
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Fuel Tank & Mount, Fuel Supply, and EVAP Group (No Canister)

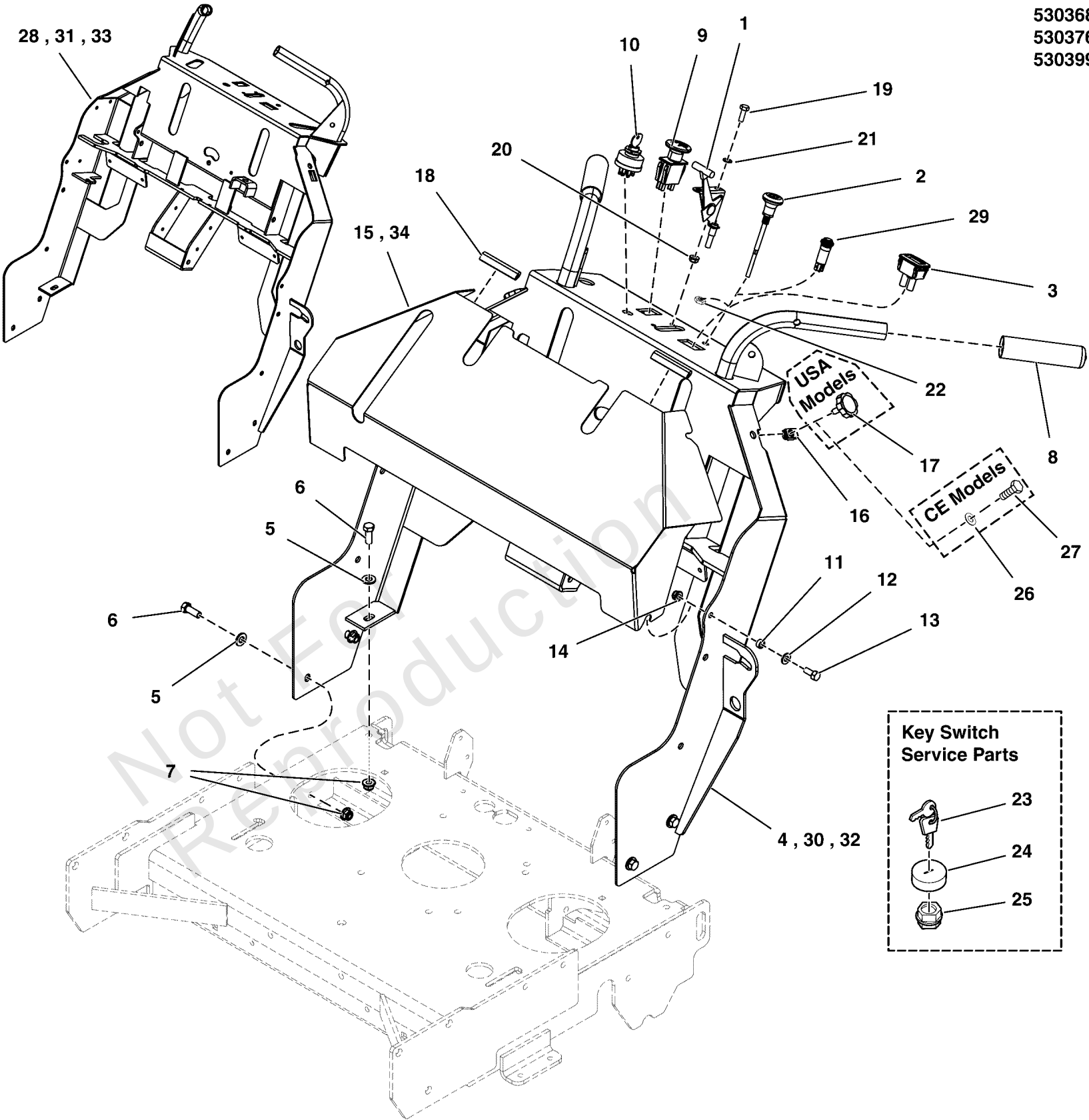
REF NO	PART NO	QTY	DESCRIPTION
1	5412017A	1	WELD, FUEL TANK MOUNT, WALK - BLK -(S/N: 2016950122 & Below)
2	5403445A	2	STRAP, FUEL TANK
3	5025154	2	WASHER, 1/4 SAE
4	5025010X10	2	BOLT, 1/4-20 X 1-1/4, GD5
5	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
6	93807	2	CLAMP, HOSE, EXTERNAL, 1/2 - RED
7	5025156	5	WASHER, 3/8 SAE
8	5025394	5	NUT, 3/8-16 HEX NYLOCK FLANGE
9	5025013X8	5	BOLT, 3/8-16 X 1" GD5 CZ
10	5102833	1	TANK, 5 GAL, W DROP TUBE/VENT
11	5103005	1	FUEL CAP, 3-1/2", MANAGED VENT OUT, 12"
12	5100810	2	PAD, RUBBER MOUNT
13	5050831X12	1	HOSE, 1/4" FUEL, 12.00"
14	5050853X1P25	1	BODY MOLDING, 1.25" LONG
15	5021178X3	1	FUEL FILTER -(SV)
16	7700552X15P5	1	HOSE, VAPOR, 5MM ID, 15.50 LG -(Kawasaki Models)
17	5103062	1	FITTING, 3/16" TEE, BARB TYPE, HDPE
18	7700552X8	1	HOSE, VAPOR, 5MM ID, 8.00 LG -(Kawasaki Models)
19	80025019	1	FILTER, FUEL
20	7700552X4P5	1	HOSE, VAPOR, 5MM ID, 4.50 LG
21	5021030	2	TIE, SELF-LOCKING, 6"
22	5413382A	1	WELD, FUEL TANK MOUNT UPPER, W35 - BLK -(S/N: 2016950123 & Above)
23	5413376A	1	WELD, FUEL TANK MOUNT LOWER, W35 - BLK -(S/N: 2016950123 - 2017170234)
24	5025127	1	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL) -(S/N: 2016950123 & Above)
25	5025055X16	1	BOLT, 5/16-18 X 2 ALL THD -(S/N: 2016950123 & Above)
26	5050831X29P5	1	HOSE, 1/4" FUEL, 29.50" -(Briggs & Stratton Models)
27	7700552X20P5	1	HOSE, VAPOR, 5MMID, 20.50 LG -(Briggs & Stratton Models)
28	5102833X1	1	GROMMET -(SV)(Grommet for fuel tank 5102833)
29	5413950A	1	WELD, FUEL TANK, MOUNT, LOWER, W35 - BLK -(S/N: 2017170235 & Above)

Handle Bar / Control Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5303680
5303763
5303999



Handle Bar / Control Group

REF NO	PART NO	QTY	DESCRIPTION
29	5103809	1	LIGHT, INDICATOR, PANEL, LED, RED -(Models with Briggs & Stratton EFI Engines)
30	5413924B	1	** WELD, HANDLE BARS, F/SW35 - RED -(Standard Handle Bars - S/N: 2017118254 - 2017170234)
31	5413925B	1	** WELD, HANDLE BAR, SW35/FW35, CC - RED -(Centralized Control Handle Bars - S/N: 2017118254 - 2017170234)
32	5413682B	1	** WELD, HANDLEBARS, W35, STD - RED -(Standard Handle Bars - S/N: 2017170235 & Above)
33	5413683B	1	** WELD, HANDLEBARS, W35, CC - RED -(Centralized Control Handle Bars - S/N: 2017170235 & Above)
34	5600951	1	ASSM, HB GUARD W/DECALS, FW35 - CE (5412377B) -(CE Models)

Handle Bar / Control Group

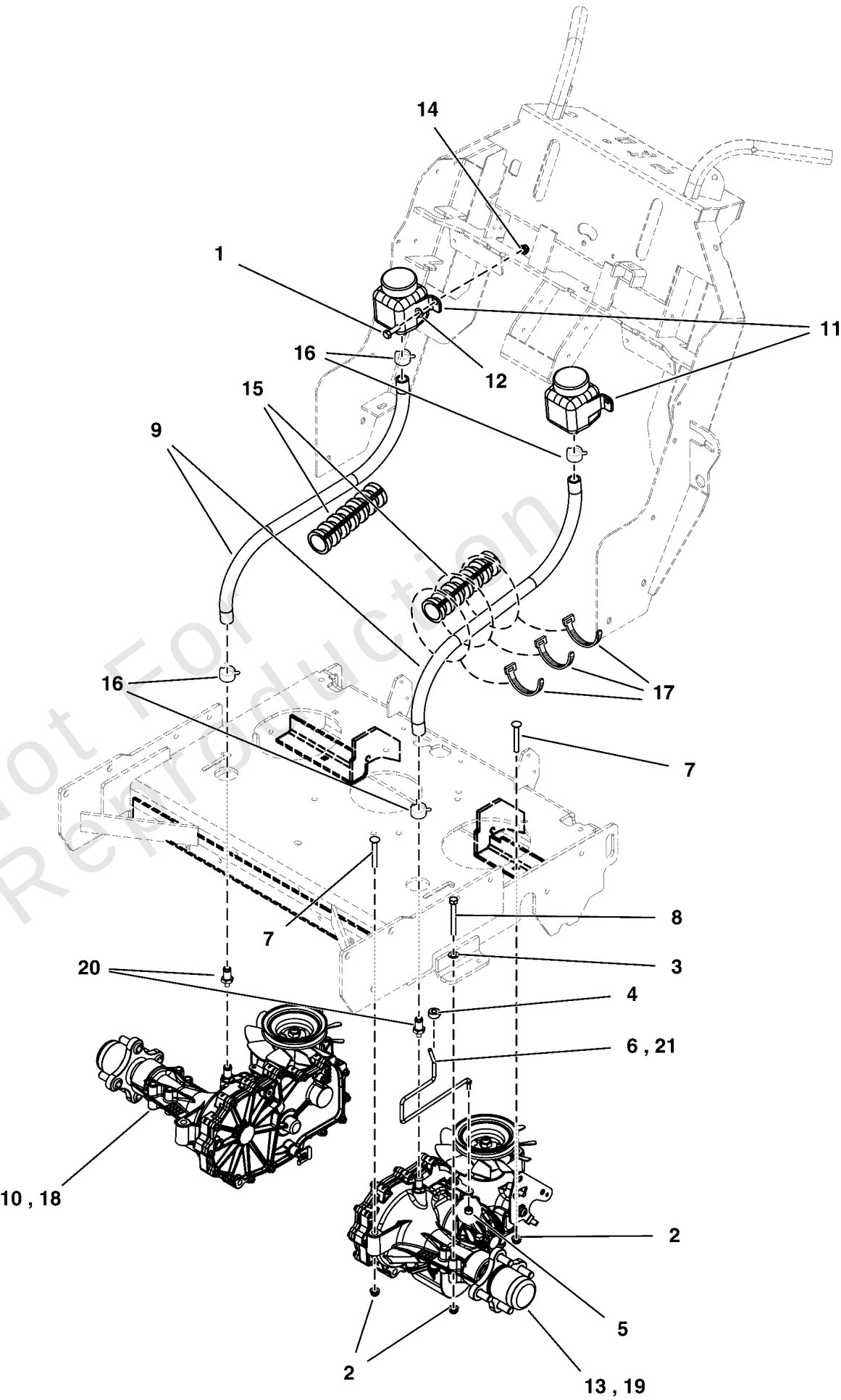
REF NO	PART NO	QTY	DESCRIPTION
1	5104657	1	CABLE, THROTTLE, 43" DETENTED -(Kawasaki Models)
1	5104657	1	CABLE, THROTTLE, 43" DETENTED -(Briggs & Stratton Models)(Was 5102163)
2	5100184	1	CABLE, CHOKE CONTROL, 43.5" -(Kawasaki Electric Start Models)
2	5102622	1	CABLE, CHOKE CONTROL, 43.5", DETENTED -(Kawasaki Manual Start Models)
2	5047779	1	CABLE, CHOKE CONTROL, 51" (Z) -(Briggs & Stratton Carbureted Models)
3	-----		HOUR METER -(Refer to Note: *)
4	5412059B	1	** WELD, HANDLE BARS, WALK - RED -(Standard Handle Bars - S/N: 2016973573 & Below)
4	5413418B	1	** WELD, HANDLE BARS, F/SW35 - RED -(Standard Handle Bars - S/N: 2016973574 - 2017118253)
5	5025293	6	WASHER, 3/8" GR. 9 FLAT
6	5025013X8	6	BOLT, 3/8-16 X 1" GD5 CZ
7	5025394	6	NUT, 3/8 - 16 HEX NYLOCK FLANGE
8	5104659	2	GRIP, FOAM, .940" X 4.62" X .187"
9	5104697	1	PTO SWITCH, MOMENTARY, SMALL KNOB
10	5021842	1	SWITCH, Ignition, Complete -(Manual Start Models)
10	5020927	1	SWITCH, IGNITION, 6 POST -(Electric Start Models)
11	5102463	2	SPACER, .33 X .50 X .25, PM, CZ
12	5025155	6	WASHER, 5/16" SAE
13	5025011X8	6	BOLT, 5/16-18 X 1" GRD5 YZ
14	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
15	5600950	1	ASSM, HB GUARD W/DECALS, FW35 - DOM (5412377B) -(Domestic Models)
16	5022308	4	BODY CLIP, 5/16-18-7GA MATERIAL
17	5108141	2	KNOB, 5/16-18 X 1.00, ROSETTE, BLK -(USA Models)
18	5050853X3	2	BLACK BODY MOLDING, 3" LONG
19	5025010X6	2	BOLT, 1/4"-20 X 3/4" GD5 YZ
20	5025391	2	NUT, 1/4-20 Hex Nylock Flange
21	5025154	2	WASHER, 1/4 SAE
22	5025309	1	NUT, 3/8-24 Hex Jam -(SV)
23	5022789	1	KEY, IGNITION MOLDED SET -(SV)
24	5022790	1	COVER, PLASTIC, SNAP ON -(SV)
25	5022791	1	PLASTIC NUT -(SV)
26	5025155	1	WASHER, 5/16" SAE -(CE Models)
27	5025011X8	1	BOLT, 5/16-18 X 1" GRD5 YZ -(CE Models)
28	5413419B	1	WELD, HANDLE BAR, SW35/FW35, CC - RED -(Centralized Control Handle Bars - S/N: 2017118253 & Below)

Footnotes:

** If replacing order all appropriate decals for handle bar.

Note: *When replacing this hour meter, please call our service department at 1-800-933-6175

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Hydraulic Group

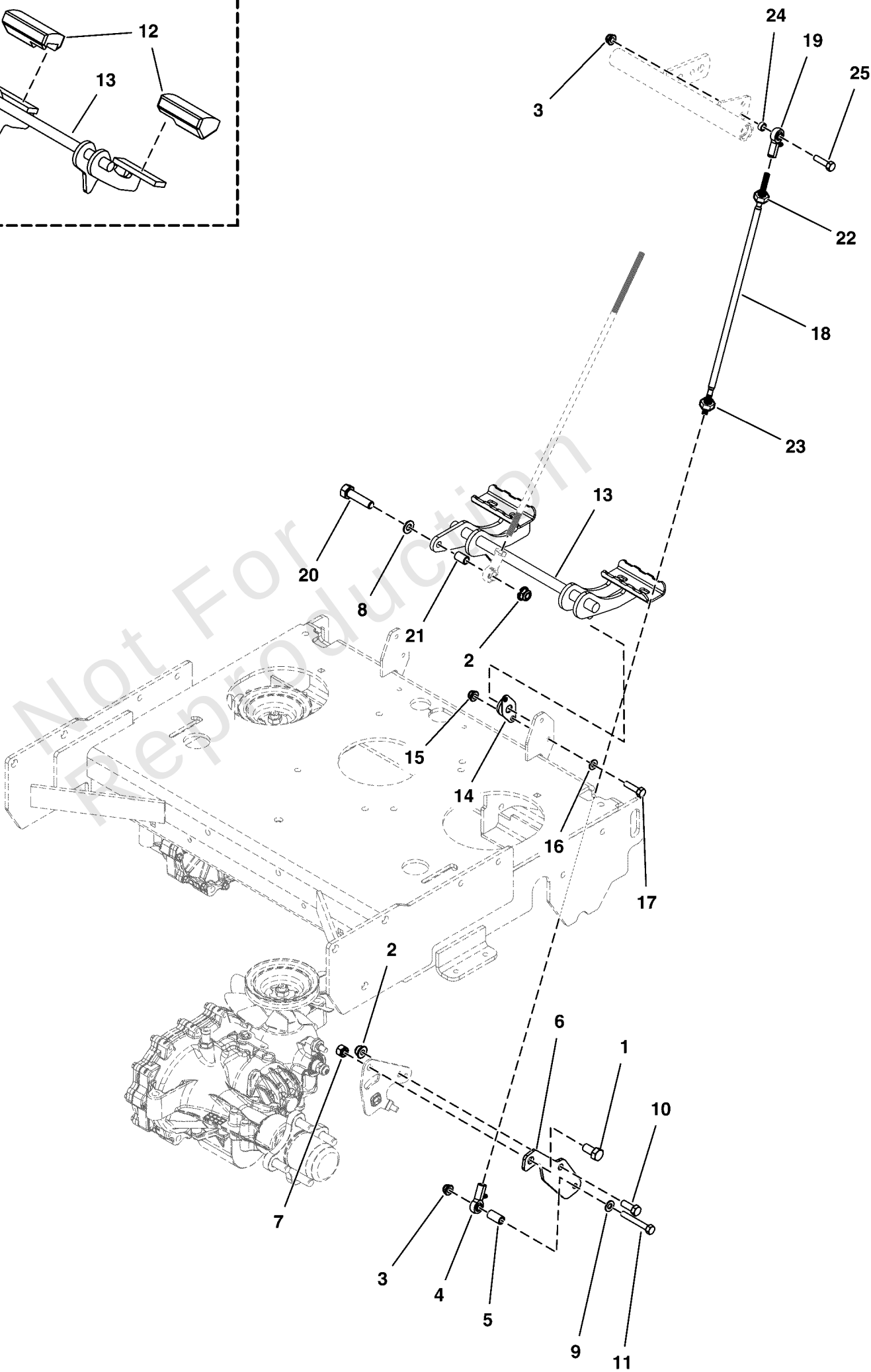
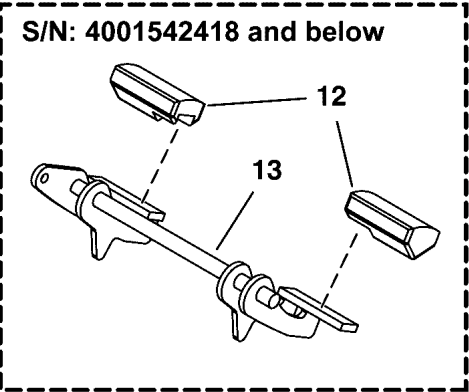
REF NO	PART NO	QTY	DESCRIPTION
1	5025010X6	4	BOLT, 1/4-20 X 3/4 GD5 YZ
2	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE
3	5025155	4	WASHER, 5/16" SAE
4	5020047	2	COLLAR, 5/16 SET
5	5022481	2	COLLAR, 1/4 SET
6	5102638	2	ROD, HYDRO RELEASE, SW30 -(S/N: 2017170234 & Below)
7	5025145X18	4	BOLT, 5/16-18 X 2-1/4, CARRIAGE, GD5, CZ
8	5025011X22	4	BOLT, 5/16-18 X 2-3/4, GD 5, YZ
9	5050857X24	2	HOSE, 1/2" PUSH-ON, 24.00"
10	5102810	1	TRANSAXLE, ZT3100, RH(ZJ-KMFE-3B5C-1RLX) -(S/N: 2017170234 & Below)
11	5100473	2	HYDRO RES. #71328, 350 ml
12	5025154	4	WASHER, 1/4 SAE
13	5102809	1	TRANSAXLE, ZT3100, LH(ZJ-GMFE-3B5B-1RLX) -(S/N: 2017170234 & Below)
14	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE
15	5050862X20	2	WIRE LOOM, 3/4 ID X 20 IN
16	5025474	4	CLAMP, HOSE, .75 FREE DIA.
17	5100772	6	TIE, SELF LOCKING, 15"
18	5106330	1	TRANSAXLE, ZT3100, RH, ZL-KMFE-3L5C-1PXE -(S/N: 2017170235 to 40015467047)
18	5109241		TRANSAXLE, ZT-3100, RH,ZL-KMFE-SL5C-1PXX -(S/N: 40015467048 and above)
19	5106331	1	TRANSAXLE, ZT3100, LH, ZL-GMFE-3L5B-1PXE -(S/N: 2017170235 to 40015467047)
19	5109240		TRANSAXLE, ZT-3100, LH,ZL-GMFE-SL5B-1PXX -(S/N: 40015467048 and above)
20	5103687	2	FITTING, #6 O-RING 1/2 HOSE BARB, STRAIGHT
21	5104532	2	ROD, HYDRO RELEASE, WALKS -(S/N: 2017170235 & Above)

Motion Control Group - Lower (All Models)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5303678L



Motion Control Group - Lower (All Models)

REF NO	PART NO	QTY	DESCRIPTION
1	5025015X6	2	BOLT, 7/16-14 X 3/4, GD 5 YZ
2	5025394	3	NUT, 3/8 - 16 HEX NYLOCK FLANGE
3	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
4	5104493	2	BALL JOINT 5/16-24 RH FEMALE BRONZE RACE
5	5102812	2	SPACER, .33 X .51 X 1.00, CZ
6	84007883	2	MOUNT
7	5025044	2	NUT, 7/16-14 HEX TOP LOCK
8	5025156	2	WASHER, 3/8 SAE
9	5025155	2	WASHER, 5/16" SAE
10	5025013X8	2	BOLT, 3/8-16 X 1" GD5 CZ
11	5025011X18	2	BOLT, 5/16-18 X 2-1/4" GD5 YZ
12	5104262	2	PEDAL, Rubber -(S/N: 4001542418 and below)
13	5412284AA	1	WELD, FOOT PEDAL - BLK -(Refer to Note: *)
14	5104270	2	BEARING, 5/8" FLANGED, PLASTIC BALL
15	5025391	4	NUT, 1/4-20 Hex Nylock Flange
16	5025154	4	WASHER, 1/4 SAE
17	-----	4	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
18	5104159	2	ROD, 5/16-24 X 15.48, LH-RH, CZ
19	5104494	2	BALL JOINT 5/16-24 LH FEMALE BRONZE RACE
20	5025013X16	1	BOLT, 3/8-16 X 2, GD5, CZ
21	5101640	1	SPACER, .38 X .50 X .50, YZ
22	5023212	2	NUT, 5/16-24 HEX, LH
23	5025033	2	NUT, Hex, 5/16-24
24	5102463	2	SPACER, .33 X .50 X .25, PM, CZ
25	5025011X10	2	BOLT, 5/16-18 X 1-1/4" GD5 YZ

Footnotes:

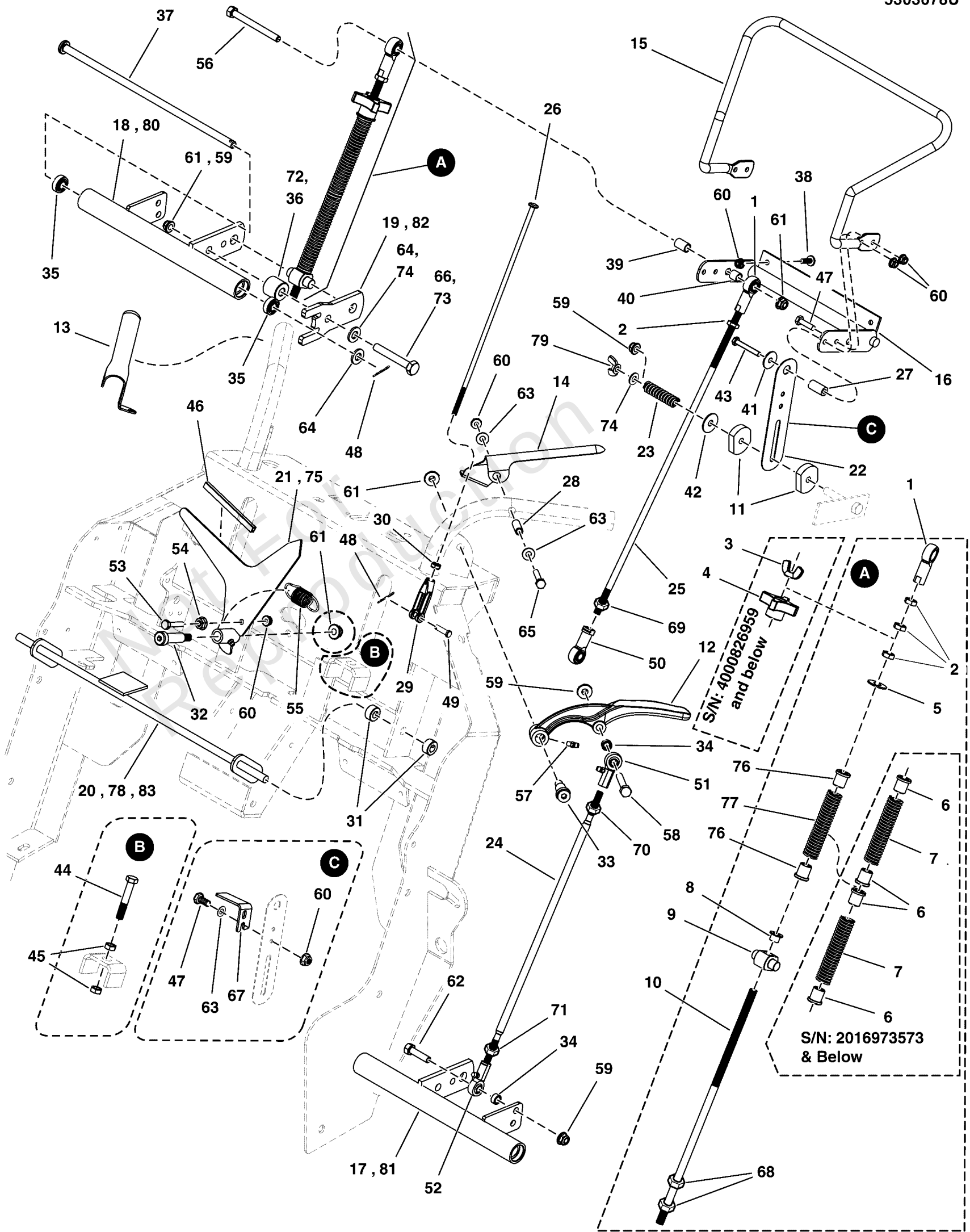
Note: *All replacement foot pedal weldments will have welded pedals.

Motion Control Group - Upper (Standard Handles - USA Models)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5303678U



Motion Control Group - Upper (Standard Handles - USA Models)

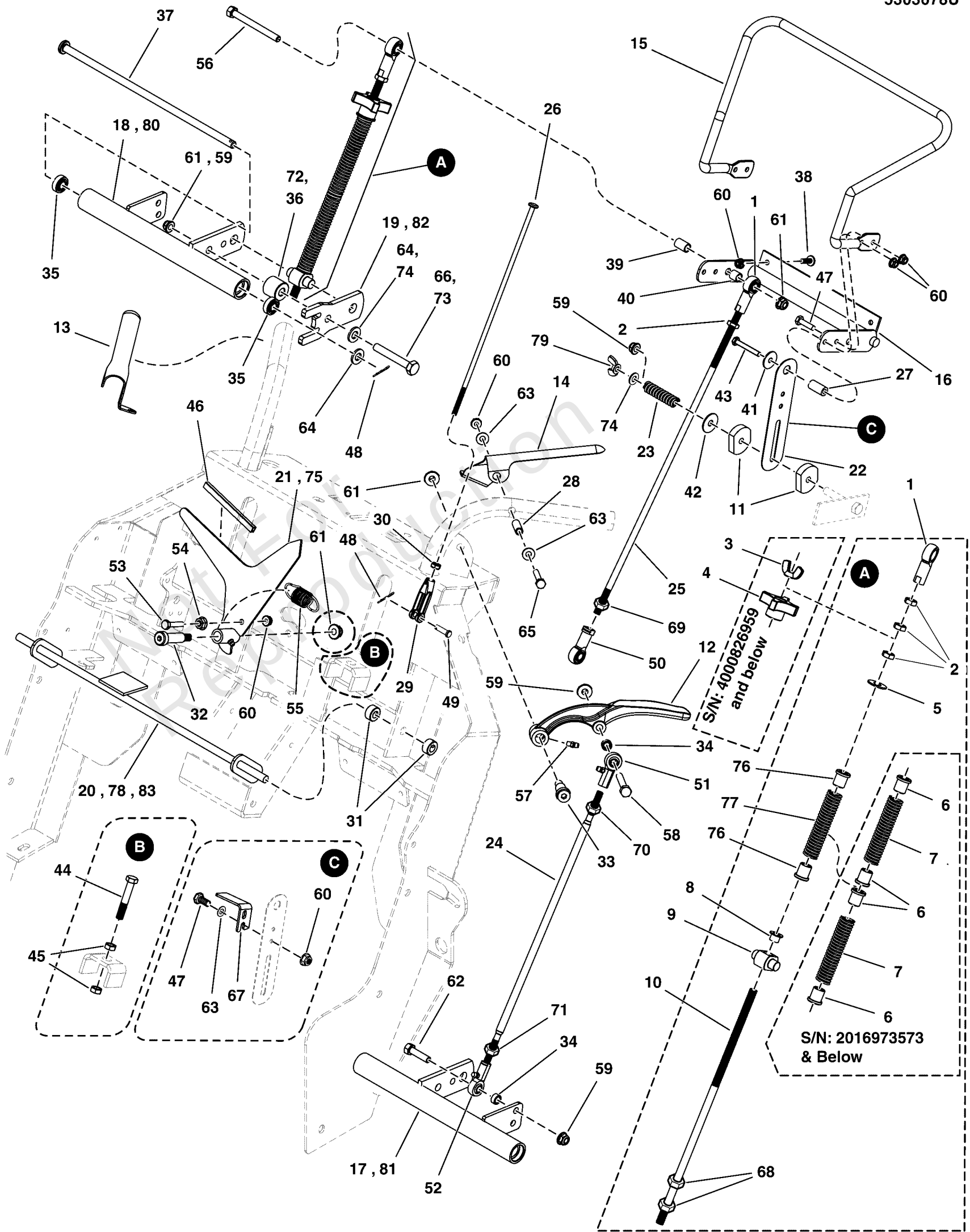
REF NO	PART NO	QTY	DESCRIPTION
1	5021683	3	BALL JOINT, 3/8-24 FEMALE
2	5025035	7	NUT, 3/8-24 HEX (SV) -(Qty: 3 - S/N: 4000826959 and below)
3	5025608	2	WING NUT, 3/8-24, CZ -(S/N: 4000826959 and below)
4	5104174	2	KNOB, 4 ARM, 3/8-24 -(S/N: 4000826959 and below)
5	5025401	2	WASHER, 3/8" USS
6	5102709	8	BUSHING, .38 X .75 X .75, PLASTIC -(S/N: 2016973573 & Below)
7	5023320	4	SPRING-COMP, .615ID X 4.00LG X .080WR -(S/N: 2016973573 & Below)
8	5102773	2	BUSHING, .38ID X .47 OD X .38L, FL
9	5103022	2	TRUNION, 1/2" POSTS, STAINLESS
10	5104229	2	ROD, CONTROL SYSTEM, WALK
11	5104176	2	PAD, T-712 FRICTION MATERIAL
12	5102556A	2	HANDLE, REVERSING - BLK
13	5104201A	1	NLA - FLAP, OPS - BLK
14	5104202A	1	NLA - FLAP, OPS - BLK
15	5104216A	1	BAR, SPEED CONTROL - BLK
16	5412891A	1	NLA - WELD, SPEED CONTROL, SW35 - BLK
17	5411616A	1	WELD, CENTER PIVOT HUB, LH - WALK - BLK
18	5412382A	1	WELD, CENTER PIVOT HUB, RH - WALK - BLK
19	5411633A	2	TAB, CONTROL PIVOT - BLK
20	5412020A	1	WELD, OPC ROD, WALK - BLK -(S/N: 2017118253 & Below)
21	84008455	1	SENSOR, Speed -(S/N: 2016973573 & Below)
22	5409272	1	PLATE, FRICTION CONTROL, SS
23	5104221	1	SPRING, COMP, .40 X .60 X 2.25, BLACK -(Compressed spring length: 1-3/4")
24	5104159	2	ROD, 5/16-24 X 15.48, LH-RH, CZ
25	5104164	1	ROD, 3/8-24, 19.00, LH-RH CZ
26	5101242	2	ROD, OPC LINK, SNP PRO WB
27	5101274	1	SPACER, .26 X .50 X 1.00 YZ
28	5101215	2	SPACER, .26 X .38 X 1.250, YZ
29	84007748	2	CLEVIS
30	7090095	2	HN, 1/4F GR5 YZ
31	5010546	2	COLLAR, 3/8" Set
32	5025220	1	BOLT, 3/8-16 x 1-1/2", 1/2" SHOULDER
33	5109888	2	BOLT, 3/8-16 X 1/2, 1.00 SHOULDER, CZ
34	5102463	4	SPACER, .33 X .50 X .25, PM, CZ
35	5102003	4	BEARING, .375" ID X .875" OD X .341" THK
36	5047125	2	SPACER, .39 X 1.00 X .88, CZ -(S/N: 2016861767 & Below)
37	5104171	2	ROD, 3/8 X 12, HEADED - CZ
38	1960715	2	SCREW-TRUSS HD TORX DR 1/4-20X0.750 BLK
39	5047199	2	SPACER, .38 x .50 x .75
40	5101640	2	SPACER, .38 X .50 X .50, YZ
41	5025288	1	WASHER, 1/4" Fender
42	5025164	1	WASHER, 5/16" Fender
43	5025010X16	1	BOLT, 1/4-20 X 2", GD5
44	5025426	1	BOLT, 1/2-20 X 2-1/2, FLT
45	5025089	2	NUT, 1/2-20 Hex Jam

Motion Control Group - Upper (Standard Handles - USA Models)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5303678U



Motion Control Group - Upper (Standard Handles - USA Models)

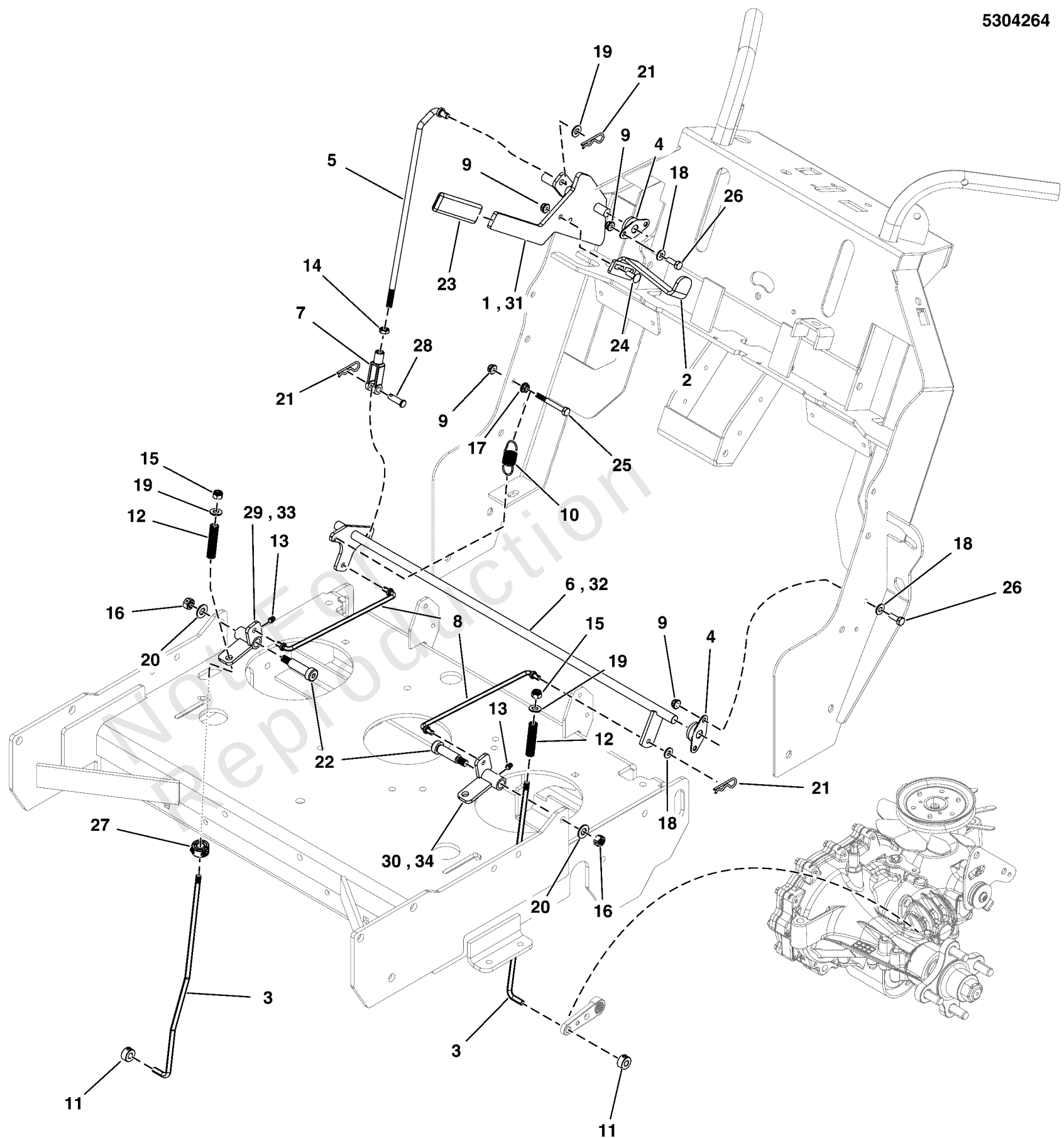
REF NO	PART NO	QTY	DESCRIPTION
46	5104568	1	U-CHANNEL, RPVC #6236 X 4"
47	5025010X6	5	BOLT, 1/4"-20 X 3/4" GD5 YZ
48	5025203X10	4	PIN, COTTER, 1/8 X 1-1/4
49	5025212X7	2	PIN, CLEVIS, 1/4 X 7/8, PLATED
50	5022392	1	BALL JOINT, 3/8-24 LH, Female
51	5104493	2	BALL JOINT 5/16-24 RH FEMALE BRONZE RACE
52	5104494	2	BALL JOINT 5/16-24 LH FEMALE BRONZE RACE
53	5025010X10	2	BOLT, 1/4-20 X 1-1/4 GD5 CZ
54	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
55	5105337	1	SPRING, EXT, 0.525 X 0.058 X 2.250 SS
56	5025013X24	1	BOLT, 3/8-16 X 3" GD5 CZ
57	5020095	2	GREASE FITTING, 1/4-28 Straight
58	5025011X18	2	BOLT, 5/16-18 X 2-1/4" GD5 YZ
59	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE NUT -(Qty: 6 - S/N: 2016861768 & Above)
60	5025391	12	NUT, 1/4-20 Hex Nylock Flange
61	5025394	7	NUT, 3/8 - 16 HEX NYLOCK FLANGE -(Qty: 5 - S/N: 2016861768 & Above)
62	5025011X10	2	BOLT, 5/16-18 X 1-1/4" GD5 YZ
63	5025154	6	WASHER, 1/4 SAE
64	5025156	4	WASHER, 3/8 SAE -(Qty: 2 - S/N: 2016861768 & Above)
65	5025010X14	3	BOLT, 1/4 X 20 X 1-3/4 GD5 YZ
66	5025013X16	3	BOLT, 3/8-16 X 2, GD5, CZ -(Qty: 1 - S/N: 2016861768 & Above)
67	5412363A	1	BRACKET, SWITCH ENGAGEMENT - BLK
68	5025034	4	NUT, 3/8-16 HEX, YZ
69	5025317	1	NUT, 3/8-24 Hex, LH
70	5025033	2	NUT, Hex, 5/16-24
71	5023212	2	NUT, 5/16-24 HEX, LH
72	5104351	2	SPACER, .33 X 1.00 X .88, CZ -(S/N: 2016861768 & Above)
73	5025011X16	2	BOLT, 5/16-18 X 2" GD5 YZ -(S/N: 2016861768 & Above)
74	5025155	2	WASHER, 5/16" SAE -(S/N: 2016861768 & Above)
75	5413413A	1	WELD, SPEED INDICATOR, LOCK OUT - BLK -(S/N: 2016973574 & Above)
76	5104375	4	FLANGED BUSHING, 3/8IDX.63ODX.8125FL -(S/N: 2016973574 & Above)
77	5104374	2	SPRING, COMP, 645IDX8.00LGX.080WR, BLK E-C -(S/N: 2016973574 & Above)
78	5413926A	1	WELD, OPC ROD, WALK - BLK -(S/N: 2017118254 - 2017170234)
79	703429	1	NUT, Wing, 5/16-18 -(S/N: 2017118254 & Above)
80	5414183A	1	WELD, W35 CONTROL PIVOT, RH - BLK -(S/N: 2017170235 & Above)
81	5414184A	1	WELD, W35 CONTROL PIVOT, LH - BLK -(S/N: 2017170235 & Above)
82	5414411A	2	TAB, PIVOT, W35 - BLK -(S/N: 2017170235 & Above)
83	5414516A	1	WELD, OPC ROD, WALK BEHIND - BLK -(S/N: 2017170235 & Above)

Parking Brake Group - S/N: 2017170235 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5304264



Parking Brake Group - S/N: 2017170235 & Above

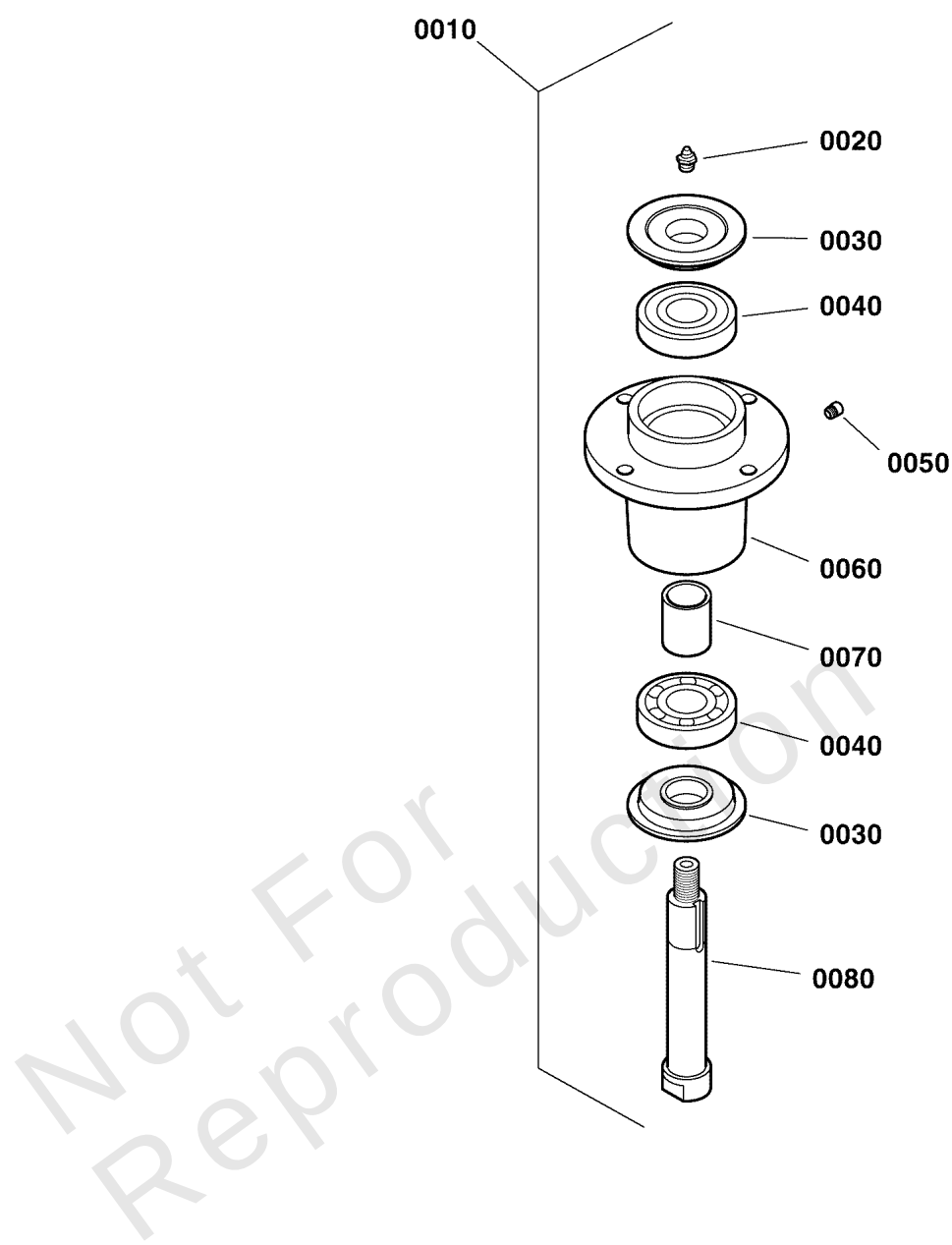
REF NO	PART NO	QTY	DESCRIPTION
1	5413689A	1	WELD, BRAKE HANDLE, W35 - BLK -(S/N: 2017307155 & Below)
2	5413241A	1	PLATE, NEUTRAL LOCKOUT - BLK
3	5104496	2	ROD, BRAKE CTRL, LOWER, SW25/FW25
4	5101123	4	BEARING, 1/2 FLANGED, PLASTIC BALL
5	5104641	1	ROD, PARKING BRAKE, W35, UPPER
6	5413955A	1	WELD, CROSS SHAFT, W35 BRAKE - BLK -(S/N: 2017307155 & Below)
7	5023323	1	CLEVIS, 5/16-24, STEEL, CLEAR ZINC
8	5104642	2	ROD, PARKING BRAKE, W35, UPPER
9	5025391	11	NUT, 1/4-20 HEX NYLOCK FLANGE
10	5010213	1	SPRING-EXT, .740 ODX2.025LGX.072WR, BLK
11	5020047	2	COLLAR, 5/16 SET
12	5020637	2	SPRING-COMP, .375IDX2.75LGX.054WR, SS
13	5021637	2	GREASE FITTING, PRESS, SHORT -(S/N: 2017215296 & Below)
14	5023216	1	NUT, 5/16-24 JAM
15	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
16	5025100	2	NUT, 3/8-16 HEX SIDE LOCK
17	5025126	1	NUT, 1/4-20 HEX SERR. FLANGE
18	5025154	12	WASHER, 1/4 SAE
19	5025155	3	WASHER, 5/16" SAE
20	5025156	2	WASHER, 3/8 SAE
21	5025211	6	PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, CZ
22	5025220	2	BOLT-3/8-16 x 1-1/2, 1/2 SHOULDER
23	5025510	1	GRIP, FOAM, 1/4 X 1 X 4.1
24	80003518	2	BOLT,1/4-20X0.750,GR5,STD NECK,SQ,ZC/CL
25	5025010X18	1	BOLT, 1/4-20 X 2-1/4 GD5 CZ
26	5025010X6	8	BOLT, 1/4-20 X 3/4 GD5 CZ
27	5104748	2	COLLAR, DOUBLE SPLIT, 7MM
28	5025213X8	1	PIN, CLEVIS, 5/16 X 1, PLATED
29	5413961A	1	WELD, BRAKE PIVOT, RH, W35 - BLK -(S/N: 2017307155 & Below)
30	5413962A	1	WELD, BRAKE PIVOT, LH, W35 - BLK -(S/N: 2017307155 & Below)
31	5414624A	1	WELD, HANDLE, W35 PARKING BRAKE - BLK -(S/N: 2017307156 & Above)
32	5414628A	1	WELD, BRAKE ROD, W35 - BLK -(S/N: 2017307156 & Above)
33	5414630A	1	WELD, BRAKE PIVOT, W35 - RH - BLK -(S/N: 2017307156 & Above)
34	5414631A	1	WELD, BRAKE PIVOT, W35 - LH - BLK -(S/N: 2017307156 & Above)

Spindle SERVICE PARTS - 5061095

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5061095



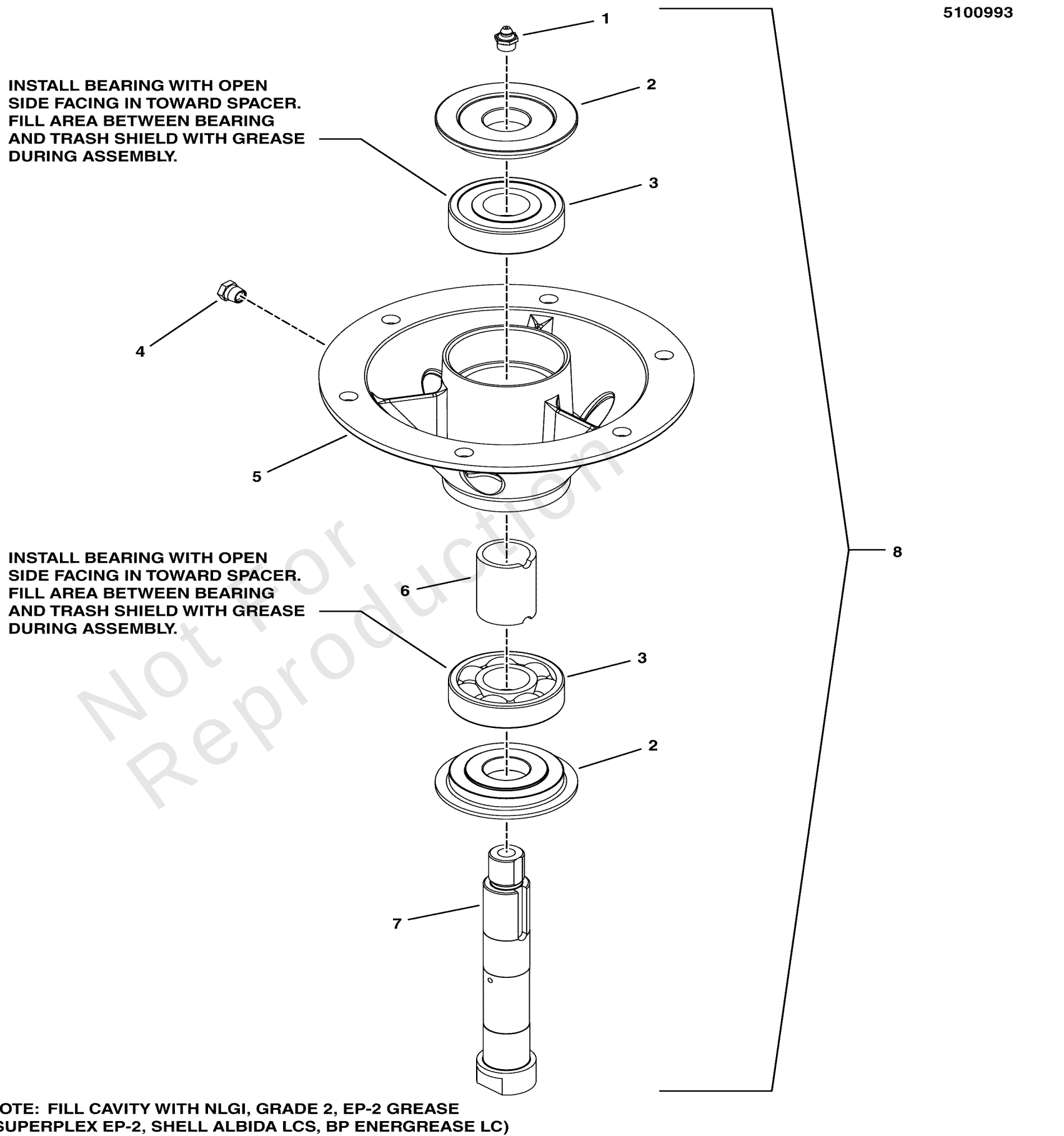
Spindle SERVICE PARTS - 5061095

REF NO	PART NO	QTY	DESCRIPTION
0010	5061095	1	SPINDLE, ASSM, ALUMINUM - 5.25 -(Nut and Washer Sold Separately) (Includes items #0020 - 0080)
0020	5023329	1	FITTING, 1/8 NPT STR, SHORT
0030	5049793	2	TRASH SHIELD
0040	5023330	2	BEARING, .98 X 2.44 X .67
0050	5023296	1	FITTING, RELIEF, 1-5 PSI
0060	5061097	1	HOUSING, SPINDLE
0070	5061099	1	SPACER, 1.00 X 1.25 X 1.75
0080	5061098	1	SPINDLE SHAFT

Spindle Service Parts - 5100993

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599



Spindle Service Parts - 5100993

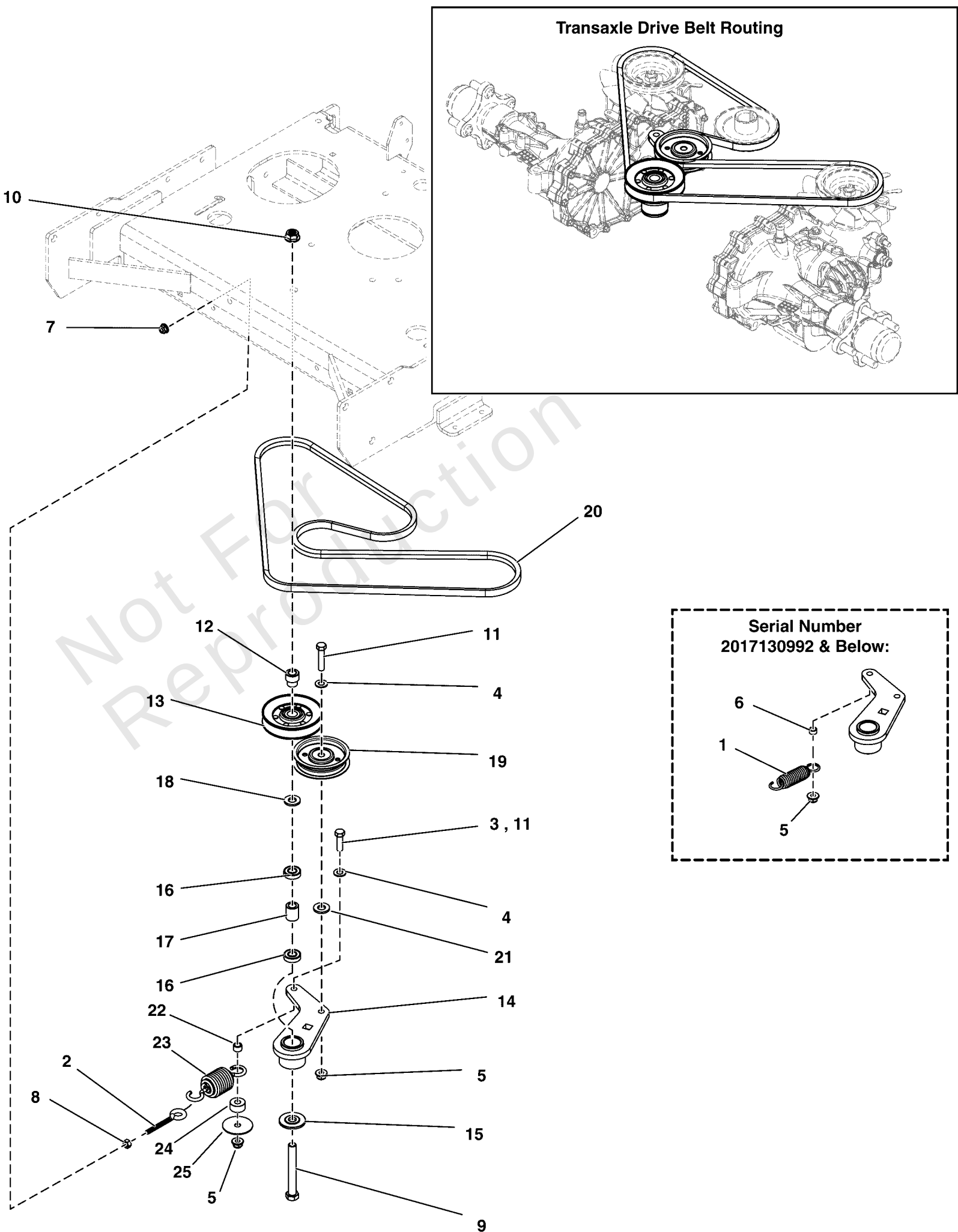
REF NO	PART NO	QTY	DESCRIPTION
1	5023329	1	FITTING
2	5049793	2	TRASH SHIELD
3	5023330	2	BEARING, .98 X 2.44 X .67
4	5023296	1	FITTING, RELIEF, 1-5 PSI
5	5101048	1	HOUSING, SPINDLE, BOTTOM MOUNT SM
6	5061099	1	SPACER, 1.00 X 1.25 X 1.75
7	5061098	1	SPINDLE SHAFT
8	5100993	1	SPINDLE ASSM, CAST IRON 8.0 - 6-BOLT -(Includes Ref No. 1 - 7)

Transaxle Drive Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901599

5303682



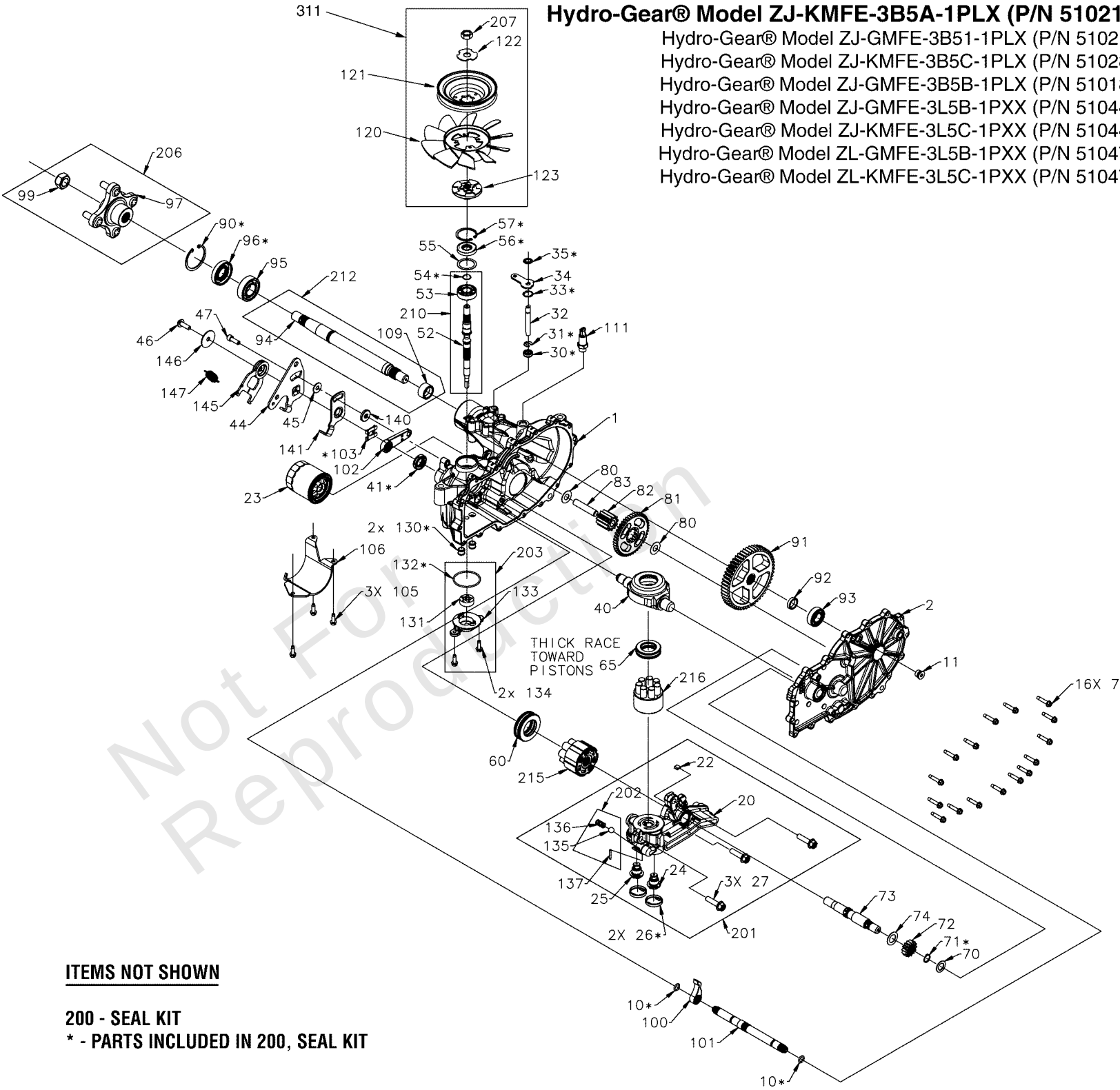
Transaxle Drive Group

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	REPLACE WITH S/N: 2017130993 & ABOVE COMPONENTS -(S/N: 2017130992 & Below)
2	5025141X26	1	EYE BOLT, 5/16-18 X 3.5, 2.13 THRD, .55 EYE, CZ
3	5025013X10	1	BOLT, 3/8-16 X 1-1/4" GD5 CZ -(S/N: 2017130992 & Below)
4	5025156	2	WASHER, 3/8 SAE
5	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
6	5041930	1	SPACER, .38 X .50 X .27, CZ -(S/N: 2017130992 & Below)
7	5025392	1	NUT, 5/16-18 HEX NYLOCK FLANGE
8	5025032	1	NUT, 5/16-18 HEX
9	5025017X32	1	BOLT, 1/2-13 X 4" GD5 CZ
10	5025396	1	NUT, Hex Flange, Nylock, 1/2-13
11	5025013X16	2	BOLT, 3/8-16 X 2, GD5, CZ -(Qty: 1 - S/N: 2017130992 & Below)
12	5104237	1	INSERT, BEARING, .51 ID X .90 OD X 1.15 L
13	5021225	1	PULLEY-IDLER-V, 4.00 OB, .669 ID, .88 W, STL
14	5412073A	1	WELD, IDLER ARM, WALK - BLK
15	5103262	1	SPACER, IDLER ARM, 1/2, PM
16	7078243	2	BEARING, BALL, AXLE
17	5104153	1	SPACER, .52 X .84 X 1.00, PM
18	5104286	1	SPACER, .52 X .88 X .14, HT
19	5104191	1	PULLEY, FLAT IDLER, 3-1/4" FLANGED
20	5104193	1	BELT, A-SEC, COG TYPE, 76.2" EL ARAMID
21	5104937	1	SPACER, .385" ID X .625" OD X .062" THK
22	5103676	1	SPACER, .39 X .55 X .38, PM, CZ -(S/N: 2017130993 & Above)
23	5104676	1	SPRING EXT, 1.50 OD X 4.75 LG X .177 WR, BLK -(S/N: 2017130993 & Above)
24	5046860	1	SPACER, .39 X 1.00 X .50, PM, CZ -(S/N: 2017130993 & Above)
25	5025326	1	WASHER, .39 X 2.00 X .14 -(S/N: 2017130993 & Above)

5102154

Hydro-Gear® Model ZJ-KMFE-3B5A-1PLX (P/N 5102154)

- Hydro-Gear® Model ZJ-GMFE-3B51-1PLX (P/N 5102155)
- Hydro-Gear® Model ZJ-KMFE-3B5C-1PLX (P/N 5102810)
- Hydro-Gear® Model ZJ-GMFE-3B5B-1PLX (P/N 5101809)
- Hydro-Gear® Model ZJ-GMFE-3L5B-1PXX (P/N 5104471)
- Hydro-Gear® Model ZJ-KMFE-3L5C-1PXX (P/N 5104472)
- Hydro-Gear® Model ZL-GMFE-3L5B-1PXX (P/N 5104707)
- Hydro-Gear® Model ZL-KMFE-3L5C-1PXX (P/N 5104706)

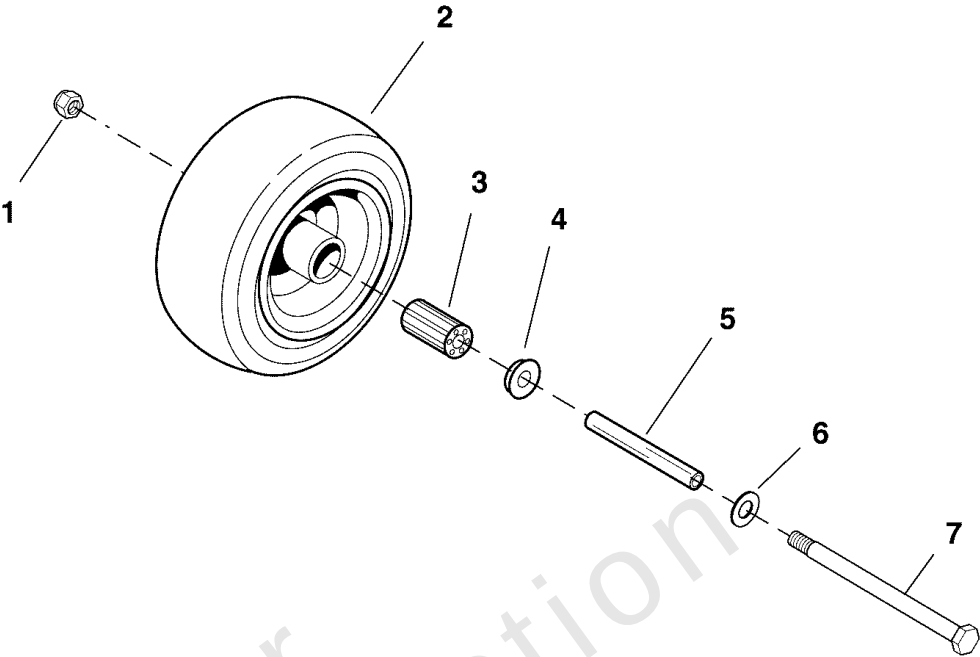


Transaxle SERVICE PARTS - ZT3100

REF NO	PART NO	QTY	DESCRIPTION
23	5101026X1	1	FILTER, OIL, ZT2800
41	5101026X2	1	SEAL, CONTROL ARM, 18X32X7, #51140
56	5100161X3	1	OUTPUT SHAFT SEAL, 17X40X7, HR #51161
57	5101026X4	1	RING, RET 2.06 INT,
95	5101026X5	1	BEARING BALL, 1.0 X 52 X 15 OPEN 6205M
96	5101026X16	1	SEAL, LIP, AXLE, #53699
120	5101024X1	1	FAN
121	5102154X1	1	PULLEY, 4.5 INCH, HG #52364
121	5101024X2	1	PULLEY, HG #53804
122	5102914	1	WASHER, ZT5400, SLOTTED
123	5101024X3	1	HUB
200	5101026X8	1	KIT SEAL
203	5101026X12	1	KIT, CHARGE PUMP, ZT2800, ZT3100
206	5103382	1	HUB, ASM, TRANS 5101188/89 & 5102154/55
207	5102916	1	NUT, ZT5400
210	5101026X9	1	KIT, INPUT SHAFT
311	5102809X1	1	KIT, FAN AND PULLEY (72134)
1000	5104580X4	1	KIT, PLUG, BRAKE BORE, OUTBOARD -(FW25 & SW25 - S/N: All; FW35 & SW35 - S/N: 2017170235 & Above)
1001	5104580X5	1	KIT, PLUG, BRAKE BORE, INBOARD -(FW35 & SW35 - S/N: 2017170234 & Below)

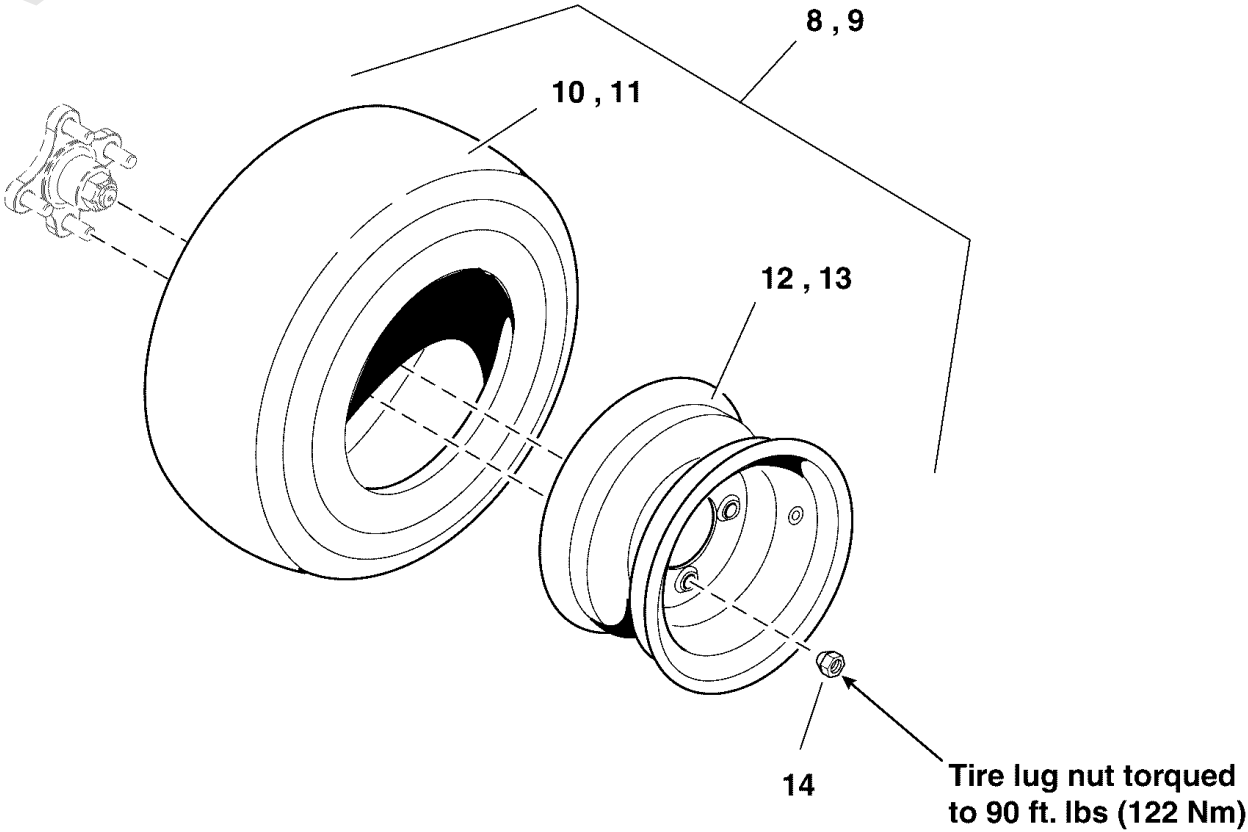
Front Wheels & Tires

5302357
5301826



Flat Free Tire

Rear Wheels & Tires



Inflate to 15 psi (1,03 bar)

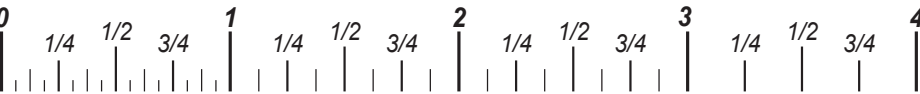
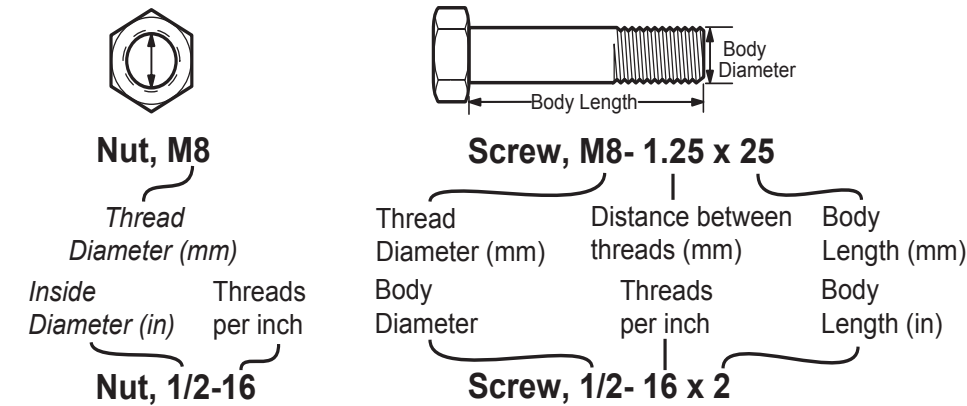
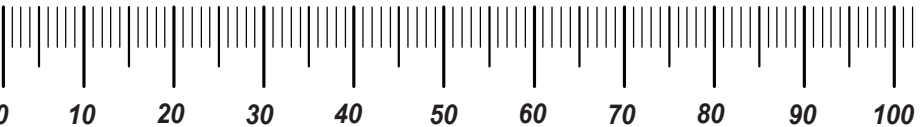
Wheel & Tire Group

REF NO	PART NO	QTY	DESCRIPTION
1	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
2	5100715	2	TIRE ASSM, 11 X 4 - 5, FF, CASTER
3	5101418X1	2	BEARING, ROLLER -(SV)
4	5021043	2	BEARING, RETAINER -(SV)
5	5045996	2	CASTER AXLE DDSH
6	5025158	2	WASHER, 1/2 SAE
7	5025017X56	2	BOLT, 1/2-13 X 7 GD5 CZ
8	5102375	2	TIRE ASSM, 20 X 7 - 10, TURF, 4 BOLT -(Models with 48" Mower Decks)
9	5102329	2	TIRE ASSM, 20 X 8 - 10, TURF, 4 BOLT -(Models with 52" & 61" Mower Decks)
10	5101068X1	2	TIRE, 20X7.00-10NHS, TURF MASTER -(Models with 48" Mower Decks)
11	5101293X1	2	TIRE, REAR, 20X8X10, TURF MASTER (SV) -(Models with 52" & 61" Mower Decks)
12	5102375X1	2	WHEEL, 10X6, 4 BOLT, NEG .700" OFFSET (SV) -(Models with 48" Mower Decks)
13	5102329X2	2	WHEEL, 10X7.00 4/4 SOLID F237 2.625 OS -(Models with 52" & 61" Mower Decks)
14	5020601	8	NUT, 1/2-20, FOR WHEEL BOLT SILVER

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).

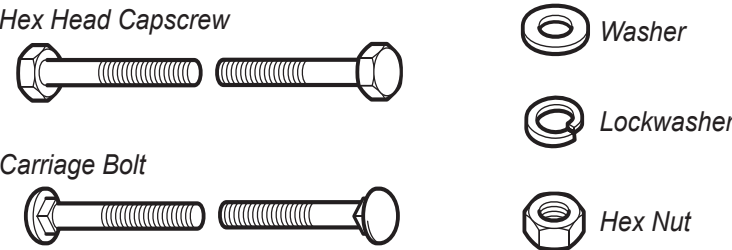
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

