



Parts Manual

Mfg. No: 5901809

SRS Z3X Series w/ 52" Mower Deck
(SRSZ3XBVE3752)



5600957 - Striping Kit, 52 iCD Deck.
5600584 - Mulch Kit for ZTR w/ 52" Deck - S/N: 2015866745 & Above.
5601010 - Headlight Kit.
5601553 - Catcher, Steel Frame / Aluminum Mesh.
5601556 - Mounting Kit, Catcher for 52" Decks (FW25, SRS Z2 - S/N: All; FW35, SW25 - S/N: 2017170235 &

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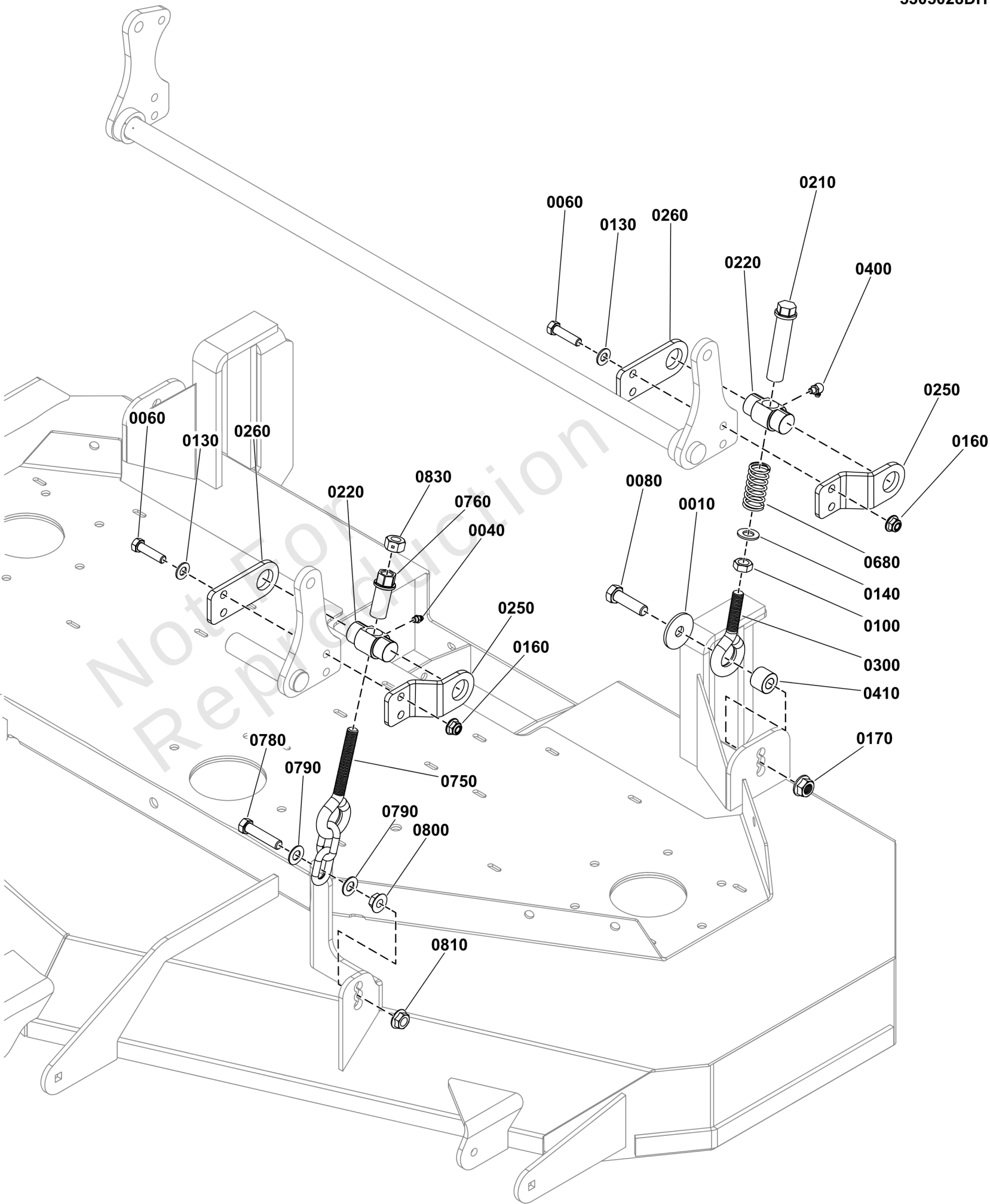
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52" Mower Deck Group - Deck Hangers

Note: Unless noted otherwise, use the standard torque specifications

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5305028DH



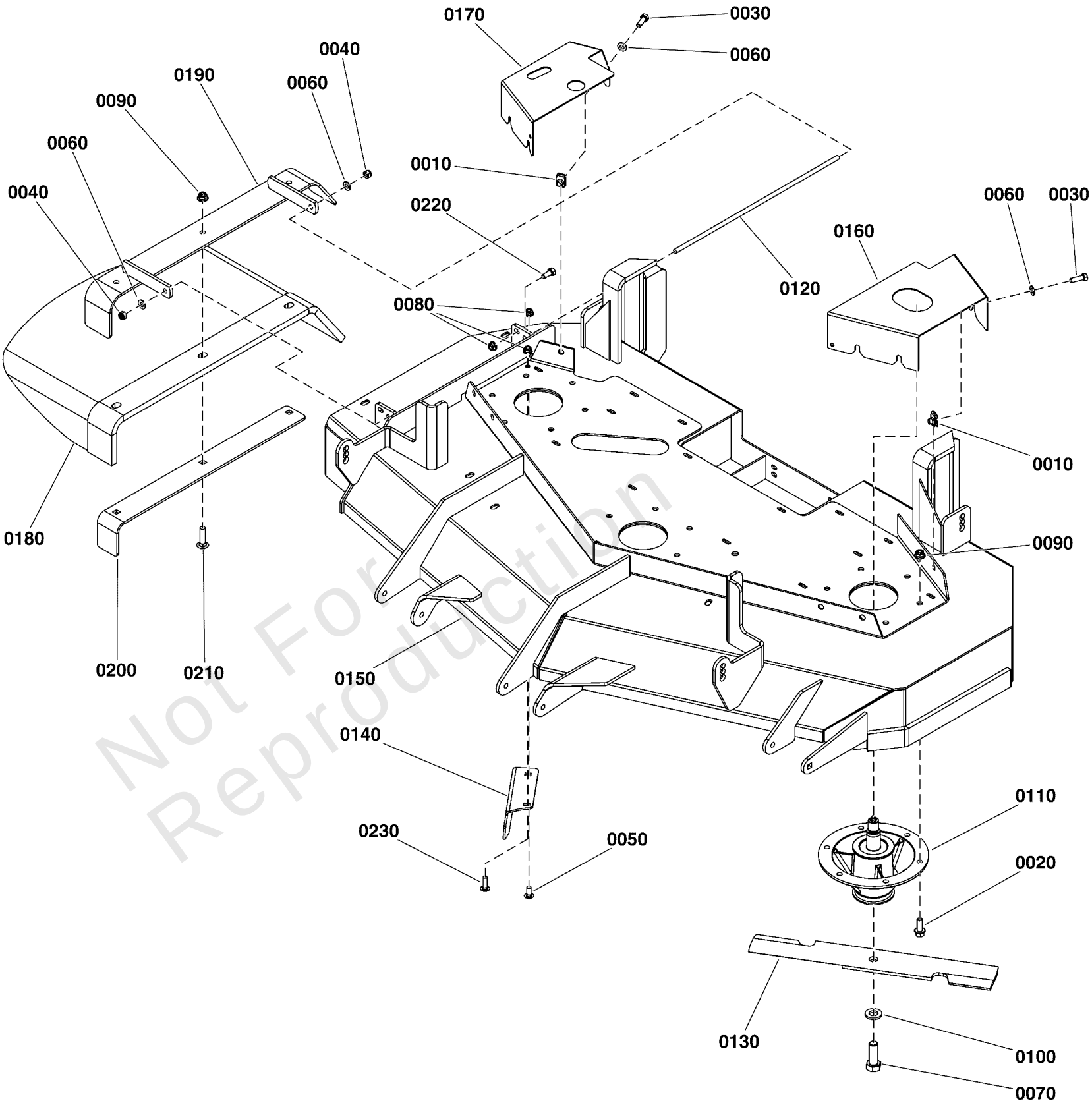
52" Mower Deck Group - Deck Hangers

REF NO	PART NO	QTY	DESCRIPTION
0010	5103282	2	WASHER, .52 X 1.75 X .14, CZ
0040	5020095	2	GREASE FITTING, 1/4-28 Straight
0060	5025013X12	8	BOLT, 3/8-16 X 1-1/2" GD5 CZ
0080	5025017X14	2	BOLT, 1/2-13 X 1-3/4 GD5 CZ
0100	5025089	2	NUT, 1/2-20 Hex Jam
0130	5025156	8	WASHER, 3/8 SAE
0140	5025158	2	WASHER, 1/2 SAE
0160	5025394	8	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0170	5025396	4	NUT, Hex Flange, Nylock, 1/2-13
0210	5109915FS	2	ADJUSTER, HEIGHT
0220	5104238	4	PIVOT, DECK LIFT TRUNION, GREASABLE
0250	5413899AA	4	BRACKET, OUTER TRUNION MNT - BLK
0260	5413900AA	4	BRACKET, INNER TRUNION MNT - BLK
0300	5025579	2	EYE BOLT, 1/2-20 X 4.25,1.88THRD,1EYE,CZ
0400	5025447	2	GREASE FITTING, 1/4-28 STRAIGHT, 90 DEGREE
0410	5045178	2	SPACER, .52 X 1.00 X .75, CZ
0680	5105582	2	SPRING, COMPRESSION, .76 X .97 X 2", BLK
0750	5104309	2	HANGER, FRONT DECK-2LINK, 5.5" EB
0760	5105629	2	ADJUSTER, SHORT, DECK LIFT, CZ
0780	80018782	2	CAPSCREW-HEX HD 7/16-14X2.000 G8 CL/ZC
0790	80004028	4	WSHR,7/16 ID X .065 THK, FLAT,ZINC/CLEAR
0800	5025533	2	NUT, HEX, 7/16-14, SER, FLG, GD5, YZ
0810	1930650	2	NUT-HEX FLANGE 7/16-14 TWO WAY LK GA BLK
0830	5025332SM	2	NUT - SIDE LOCK

52" Mower Deck Group - Housing, Covers, Spindles, and Blades

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809



52" Mower Deck Group - Housing, Covers, Spindles, and Blades

REF NO	PART NO	QTY	DESCRIPTION
0010	5022308	6	BODY CLIP, 5/16-18-7GA MATERIAL
0020	5025390X8	18	BOLT, 3/8-16 X 1, FLANGE, GD 5, CZ -(S/N: 4001759914 and below)(Torque spindle mounting bolts to 17 ft. lbs. (23 Nm))
0020	5025390X10	18	BOLT, 3/8-16 X 1-1/4, FLANGE, GD 5, CZ -(S/N: 4001759915 and above)(Torque spindle mounting bolts to 17 ft. lbs. (23 Nm))
0030	5025011X8	6	BOLT, 5/16-18 X 1" GRD5 YZ
0040	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
0050	5025145X6	1	BOLT, 5/16-18 X 3/4, CARRIAGE, GD5, CZ
0060	5025155	6	WASHER, 5/16" SAE
0070	5025320X14	3	BOLT, 5/8-11 X 1-3/4 GD8
0080	5025392	3	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0090	5025394	21	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0100	5025477	3	WASHER, BLADE BOLT, 9/16" F436, CZ
0110	5100993	3	SPINDLE ASSM, CAST IRON 8.0 - 6-BOLT
0120	5061300	1	ROD, MOUNT, CHUTE, 61, CZ
0130	5101756S	1	BLADE, 18 X .25 X 2.5, 1 X 3.5 (SET OF THREE) -(Set of 3 Blades)
0140	84003127	1	DEFLECTOR
0150	5601170	1	DECK SHELL W/ DECALS, SRS Z3X-52 -(S/N: 4001759914 and below)
0150	5601335	1	DECK SHELL W/DECALS, SRSZ3-52 (5422063B) -(S/N: 4001759915 and above)(Refer to Note: *)
0160	5418462B	1	GUARD, LH DECK, SRSZ3-52 - RED -(S/N: 4001759914 and below)
0160	5421336B	1	GUARD, LH DECK, 52" - RED -(S/N: 4001759915 and above)
0170	5418463B	1	GUARD, RH DECK, SRSZ3-52 - RED -(S/N: 4001759914 and below)
0170	5421337B	1	GUARD, RH DECK, 52" - RED -(S/N: 4001759915 to 4001832990)
0160	5422007B	1	GUARD, RH, Z3X-52" - RED -(S/N: 4001832991 and above)
0180	84011105	1	CHUTE, Discharge
0190	5413400AA	1	NLA - WELD, MOUNT, DISCHARGE CHUTE - BLK
0200	5413398AA	1	SUPPORT, DISCHARGE CHUTE - BLK
0210	5025146X12	3	BOLT, 3/8-16 X 1-1/2, CARRIAGE, GD5, CZ
0220	5025011X6	1	BOLT, 5/16-18 X 3/4 GD5
0230	5025145X8	1	BOLT, 5/16-18 X 1, CARRIAGE, GD5, CZ

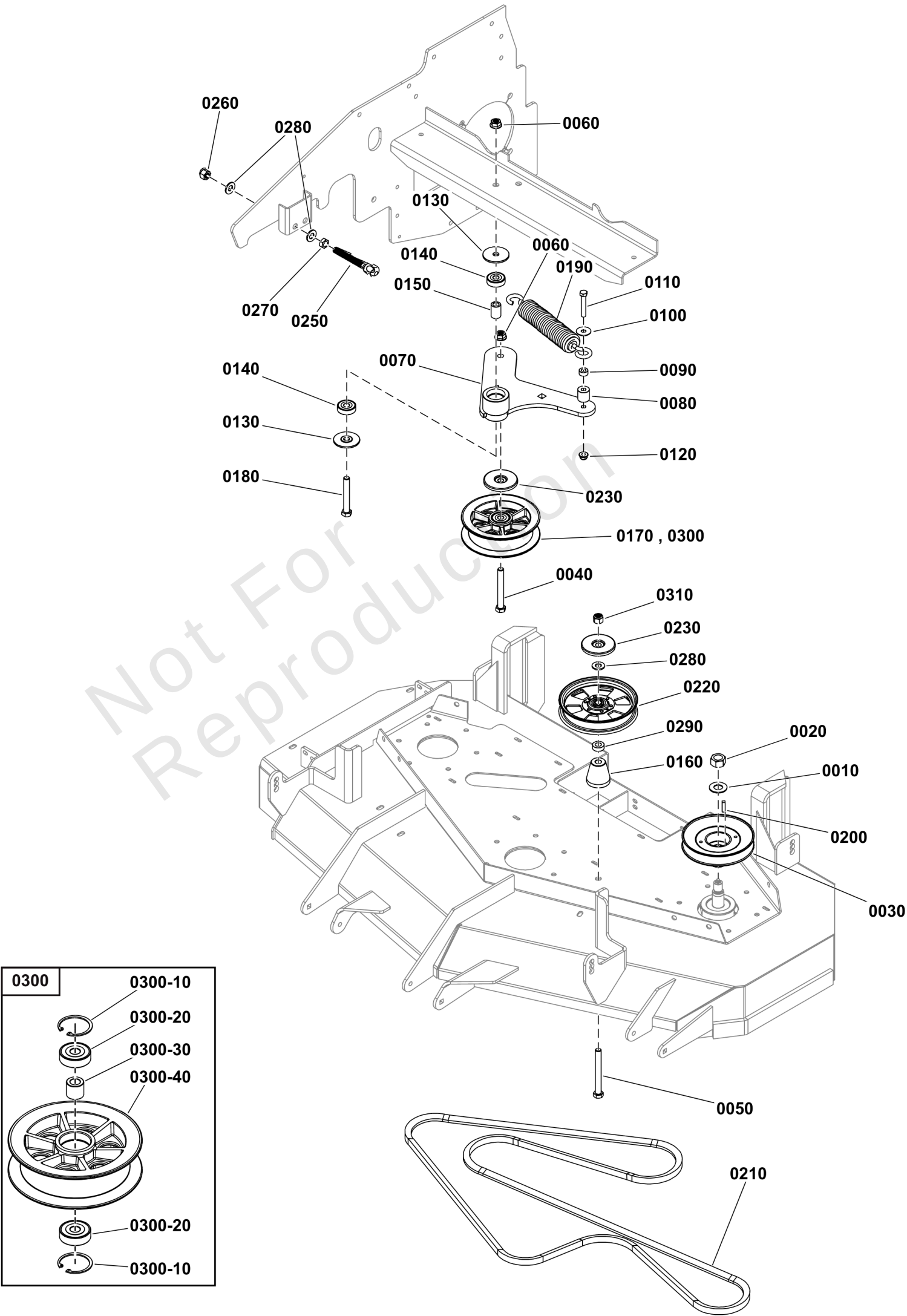
Footnotes:

Note: *If replacing a deck on a unit in serial number range 4001759915 to 4001932990, you must also order part number 5421337B.)

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

Note: Unless noted otherwise, use the standard torque specifications

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

REF NO	PART NO	QTY	DESCRIPTION
0010	5025406	3	WASHER, 3/4 BELLEVILLE CL/ZC
0020	5025405	3	NUT, 3/4-16 Hex
0030	5106478	3	PULLEY, SPNDL, 5.98OB X .985ID, Z3-52"
0040	5025017X32	1	BOLT, 1/2-13 X 4" GD5 CZ
0050	5025017X36	1	BOLT, 1/2-13 X 4-1/2" GD5 YZ
0060	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
0070	84009796	1	KIT, IDLER PULLEY -(S/N: 4001759914 and below)
0070	84009797	1	KIT, IDLER UPDATE -(S/N: 4001759915 and above)
0080	5100896	1	SPACER, .390 X 1.00 X 1.00 - YZ
0090	5044933	1	SPACER, .39 X .75 X .38, PM, CZ
0100	5025165	1	WASHER, 3/8" Fender
0110	5025013X18	1	BOLT, 3/8-16 X 2-1/4" GD5 CZ
0120	5025394	1	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0130	5104379	2	SPACER, IDLER ARM, 1/2 X 2.25
0140	5104383	2	BEARING, 6203-1/2", SEALED
0150	5104456	1	SPACER, .51 X .84 X 1.22, PM, CZ
0160	5105523	1	SPACER, .515 X 1.25 X 2.06, CZ -(S/N: 4001759914 and below)
0160	5109520	1	SPACER, .52 X 2.00 X 1.88, CZ -(S/N: 4001759915 and above)
0170	-----	1	NLA - IDLER PULLEY -(S/N: 4001876772 & Below)(Refer to Note: *)
0180	5025017X28	1	BOLT, 1/2-13 X 3-1/2, HEX HD, GD5, CZ (SV)
0190	5105092	1	SPRING, 1.52" OD X 10.70" FL X .234" WIRE, BLK
0200	5050407X8	3	KEY, 1/4 SQ X 1
0210	5104378	1	BELT, B-SEC, 129"EL, ARAMID, WRAPED
0220	5104717	1	PULLEY, FLT IDLR, 6.0 X 1.0 X .50, CZ
0230	5105041	2	SHIELD, PULLEY, 1/2"ID X 2-7/8"OD, CZ
0250	5105844	1	SPRING PULLER, 1/2-20, 5.00
0260	5025098	1	NUT, Hex, Nylon Lock, 1/2-20
0270	5025089	1	NUT, 1/2-20 Hex Jam
0280	5025158	2	WASHER, 1/2 SAE
0290	5044609	1	SPACER, .52 X 1.00 X .38, CZ -(S/N: 4002073364 and below)
0290	5100520	1	SPACER, .52 X 1.00 X .22, PM, CZ -(S/N: 4002073365 and above)
0300	5109029	1	PULLEY, IDLER, 5.50, CI -(S/N: 4001876773 & Above)(Includes items # 0300-10 to 0300-40).
0300-10	5020865	2	SNAP RING, Internal -(S/N: 4001876773 & Above)
0300-20	5109021	2	BEARING, 6203-3RC3-1/2SRI2-Q -(S/N: 4001876773 & Above)
0300-30	5105011	1	SPACER, .505 X .875 X .805, CZ -(S/N: 4001876773 & Above)
0300-40	-----	1	PULLEY HOUSING -(S/N: 4001876773 & Above)(Refer to Note: *)
0310	5025056	1	NUT, 1/2-13 HEX NYLON LOCK

Footnotes:

Note: *Replace with item #0300.

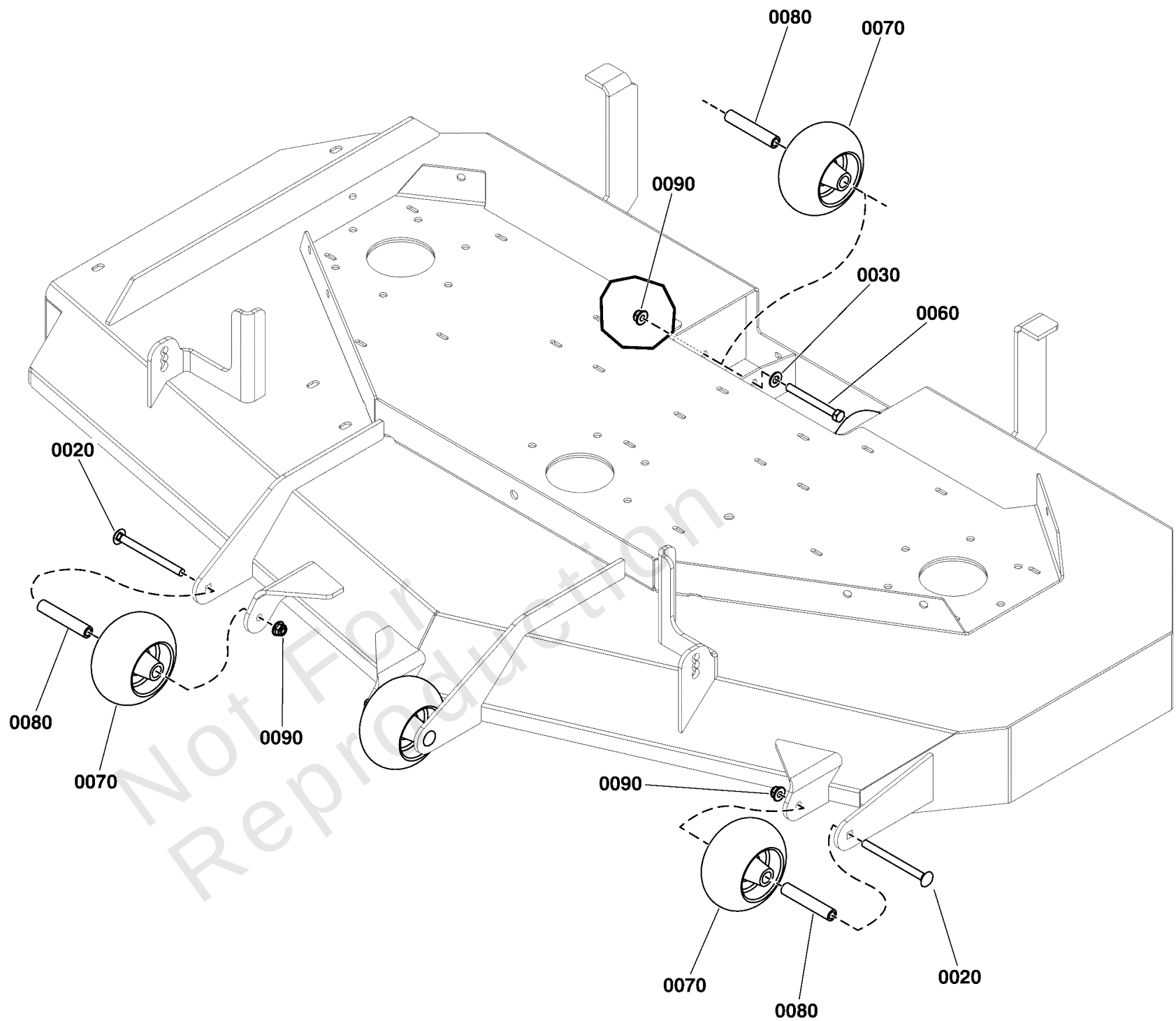
Note: *When replacing this pulley, order the higher serial number pulley.

52" Mower Deck Group - Rollers

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

5305037



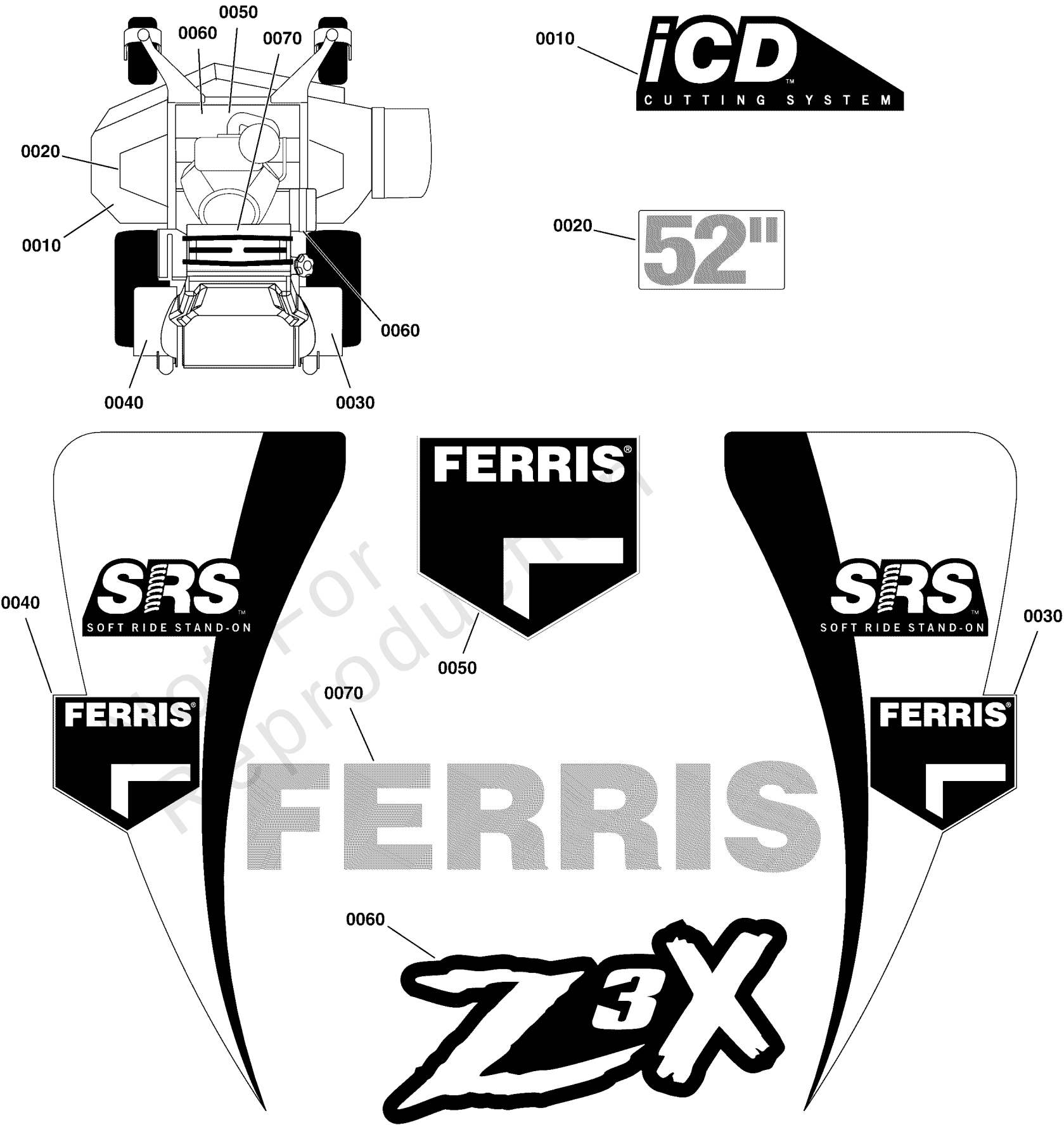
52" Mower Deck Group - Rollers

REF NO	PART NO	QTY	DESCRIPTION
0020	5025146X36	3	BOLT, 3/8-16 X 4-1/2, CARRIAGE, GD5, CZ
0030	5025156	2	WASHER, 3/8 SAE
0060	5025013X36	2	BOLT, 3/8-16 X 4-1/2" GD5 CZ
0070	5105521	3	WHEEL, ANTI SCALP, 5"
0080	5105554	5	SPACER, .38 X .63 X 3.38, CZ
0090	5025394	5	NUT, 3/8 - 16 HEX NYLOCK FLANGE

Not For Reproduction

Decal Group - Brand & Model - Models w/ 52" Mower Decks

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5901809



Decal Group - Brand & Model - Models w/ 52" Mower Decks

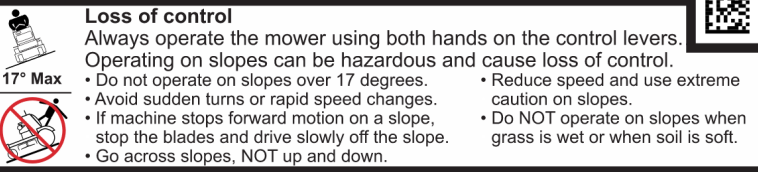
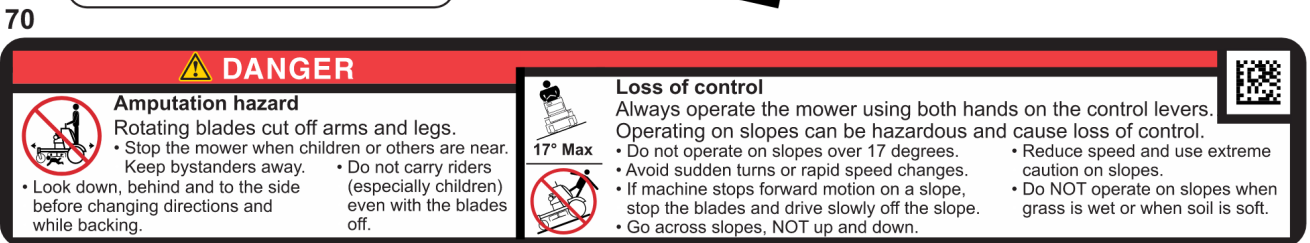
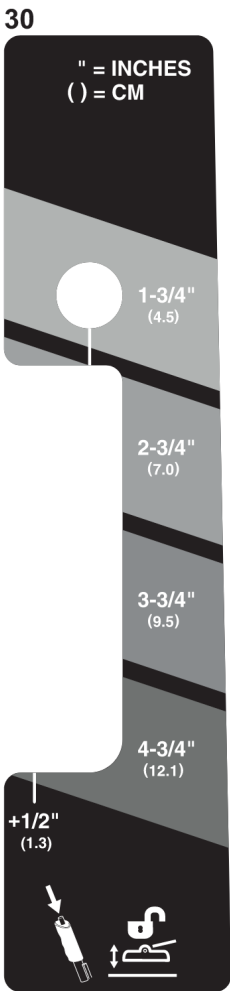
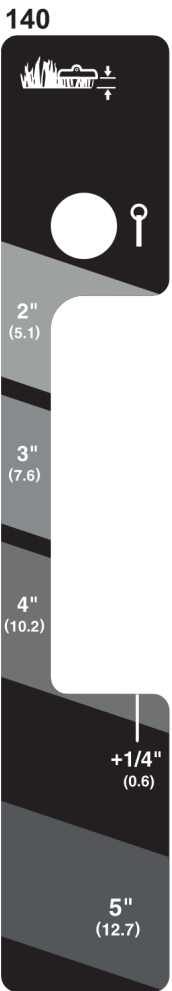
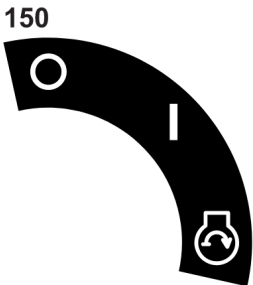
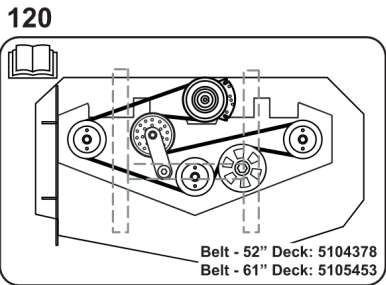
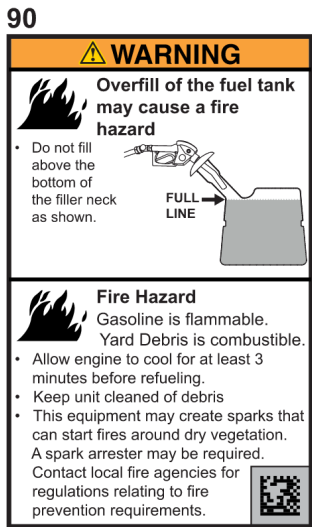
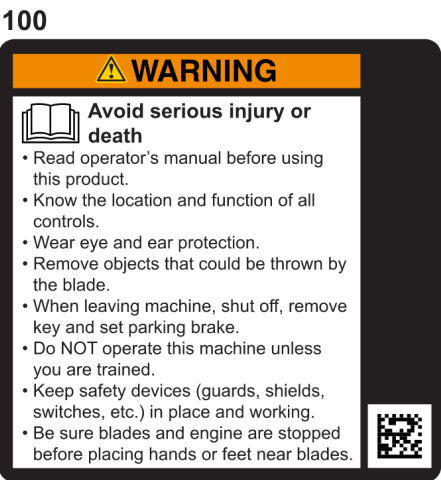
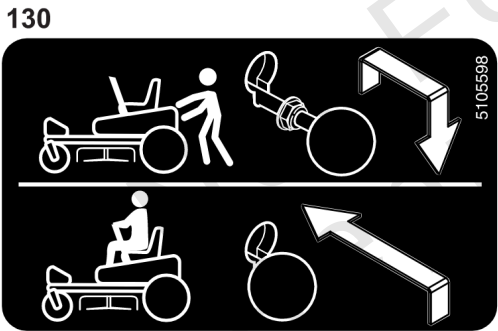
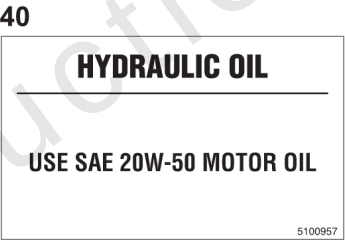
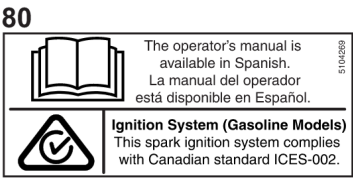
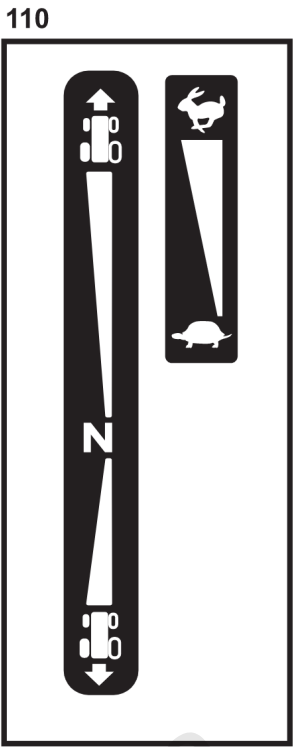
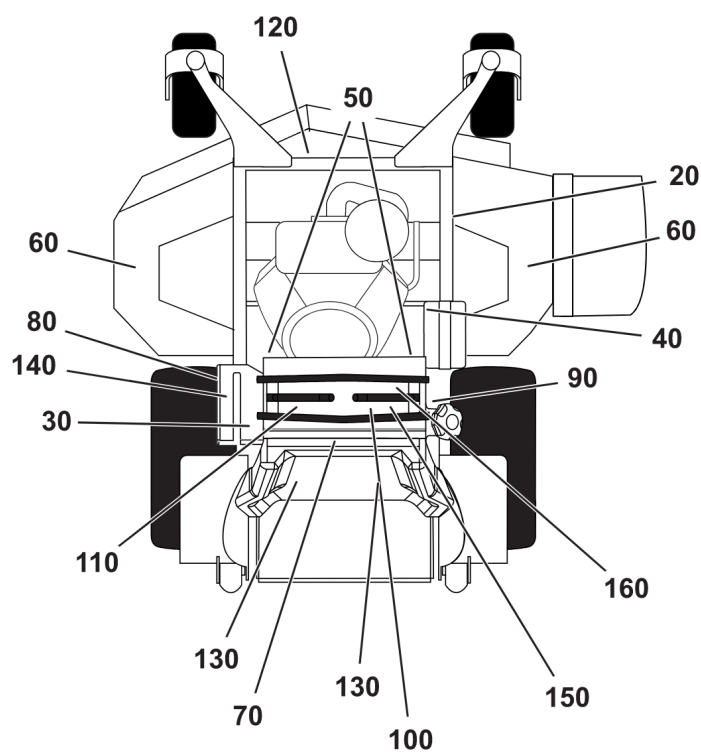
REF NO	PART NO	QTY	DESCRIPTION
0010	5102210	1	DECAL, iCD CUTTING SYSTEM
0020	5022812	1	DECAL, 52
0030	5105150	1	DECAL, FENDER, SRSZ1 / Z2, RH
0040	5105151	1	DECAL, FENDER, SRSZ1 / Z2, LH
0050	5104755FS	1	DECAL, BRAND
0060	5105633	2	DECAL, MODEL, SRSZ3X
0070	5103799	1	DECAL, FERRIS, 2.23" X 11.39"

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Decal Group - Safety & Operation - Models w/ 52" Mower Decks

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809



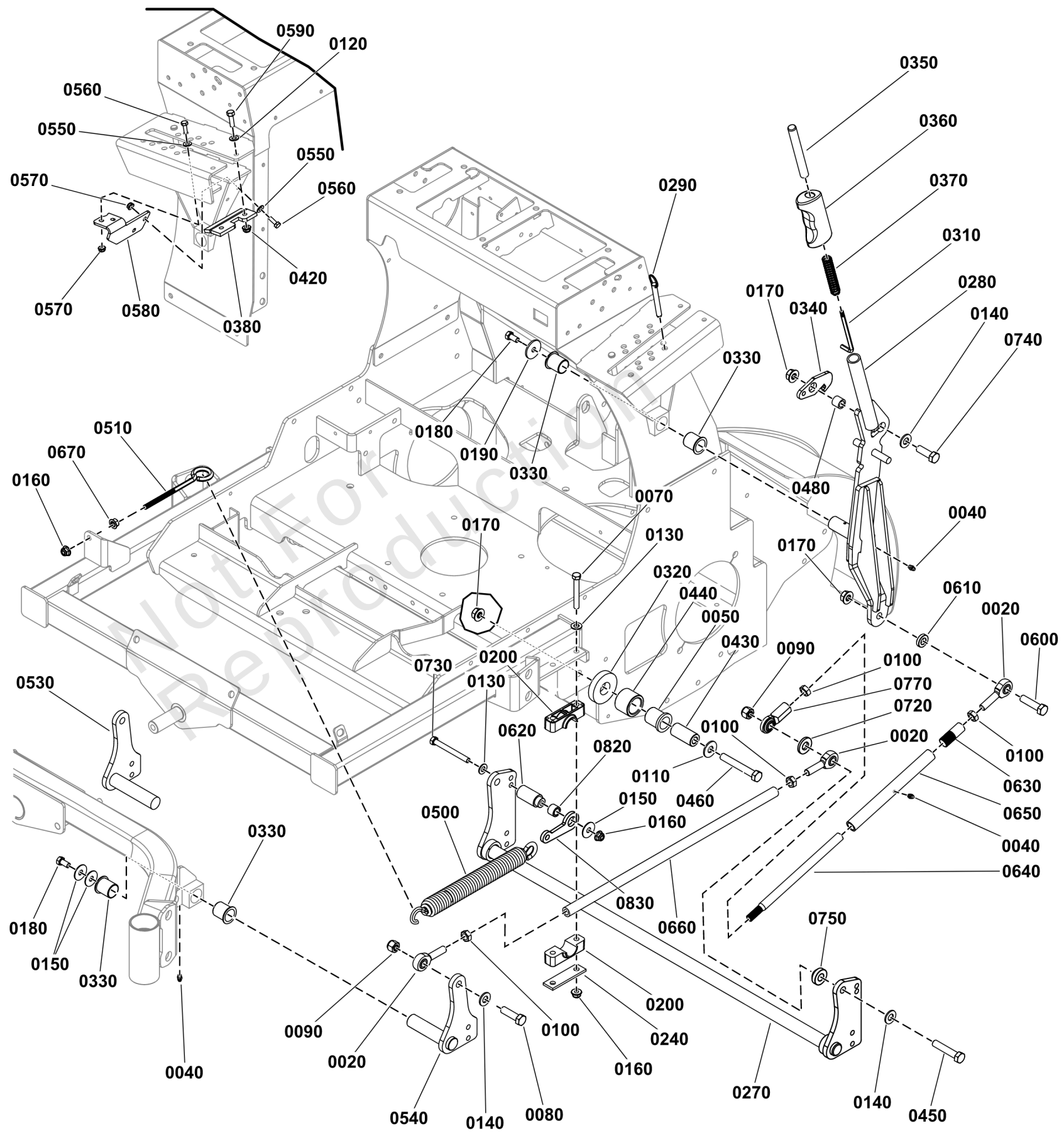
Decal Group - Safety & Operation - Models w/ 52" Mower Decks

REF NO	PART NO	QTY	DESCRIPTION
20	5061245SM	1	DECAL, PINCH POINT
30	5108042FS	1	DECAL, CUTTING HEIGHT
40	84002270	1	DECAL, Oil -(Located on battery box mount.)
50	5103184YP	2	DECAL, WARNING, ENG -(Located on engine deck by transmission fans.)
60	84007896	2	DECAL, Danger, Cut Hand/Foot
70	84008378	1	DECAL, Danger
80	5104269FS	1	DECAL -(Located on tower underneath deck lift box.)
90	5109418FS	1	DECAL, WARNING/SAFETY
100	84008379	1	DECAL, Warning/Safety
110	84008405	1	DECAL, Controls
120	5106593	1	DECAL, BELT ROUTING, SRSZ3-52/61
130	5105598FS	2	DECAL, INSTRUCTION -(Located by transmission release levers.)
140	5108214FS	1	DECAL, CUTTING HEIGHT
150	5048970SM	1	DECAL, Ignition Switch
160	84008406	1	DECAL, Controls

Deck Lift Group - Models w/ 52" Mower Decks

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5901809

Left Hand Components shown.
Unless otherwise noted Right Hand
Components are identical.



Deck Lift Group - Models w/ 52" Mower Decks

REF NO	PART NO	QTY	DESCRIPTION
0020	5104267FS	5	JOINT, BALL
0040	5020095SM	4	GREASE FITTING, 1/4-2
0050	5021541SM	2	BUSHING, FLANGE
0070	5025013X22SM	4	BOLT, 3/8-16 X 2-3/4"
0080	5025017X14YP	3	BOLT, 1/2-13 X 1-3/4 -(Both front and right rear deck lift rod connection points).
0090	5025056FS	4	NUT
0100	5025089SM	6	NUT, 1/2-20 HEX JAM
0110	5025150SM	2	WASHER, 1/2" USS
0120	703350	2	WASHER
0130	5025156FS	5	WASHER
0140	5025158SM	5	WASHER, 1/2" SAE
0150	5025165SM	5	WASHER, 3/8" FENDER
0160	5025394SM	6	NUT, 3/8-16 HEX NYLOCK
0170	770225	4	NUT
0180	5025443SM	3	BOLT - 3/8-16 X 3/4
0190	5100548SM	1	WASHER - .39X1.50
0200	5100634SM	4	PIVOT BLOCK, PLASTIC
0240	84012634	2	PLATE, Support
0270	5415156AAFS	1	SHAFT
0280	84013100	1	LEVER, Lift -(Includes items #0040, 0180, 0190, and 0330.) (Refer to Note: *)
0290	5104610FS	1	PIN
0310	5105322FS	1	ROD, LIFT
0320	5061010FS	2	WASHER
0330	5023343SM	6	BUSHING, 1.00 X 1.13
0340	5414040AAFS	1	PLATE
0350	5105323FS	1	BUTTON, PUSH
0360	1722291SM	1	GRIP, LIFT LEVER
0370	1723321SM	1	SPRING-COMP 0.715ODX
0380	84009973	1	PLATE. Latch
0420	703115	2	NUT
0430	5100732FS	2	SPACER
0440	5100731FS	2	ROLLER
0450	5025017X26SM	1	BOLT, 1/2-13
0460	5025017X28SM	2	BOLT, 1/2-13 X 3-1/2"
0480	84002461	1	SPACER
0500	5023355SM	1	SPRING, DECK LIFT ASS
0510	5025429SM	1	EYEBOLT - 3/8-16
0530	84008736	1	PIVOT, RH
0540	84008735	1	PIVOT, LH
0550	703332	4	WASHER
0560	5025010X6SM	4	BOLT, 1/4-20 X 3/4" G
0570	5025391FS	4	NUT
0580	84008584	1	PLATE, Support
0590	5025011X8FS	2	BOLT
0600	5025017X16YP	1	BOLT, 1/2-13 X 2 GD5
0610	5101376FS	1	SPACER
0620	5105586FS	1	SPACER

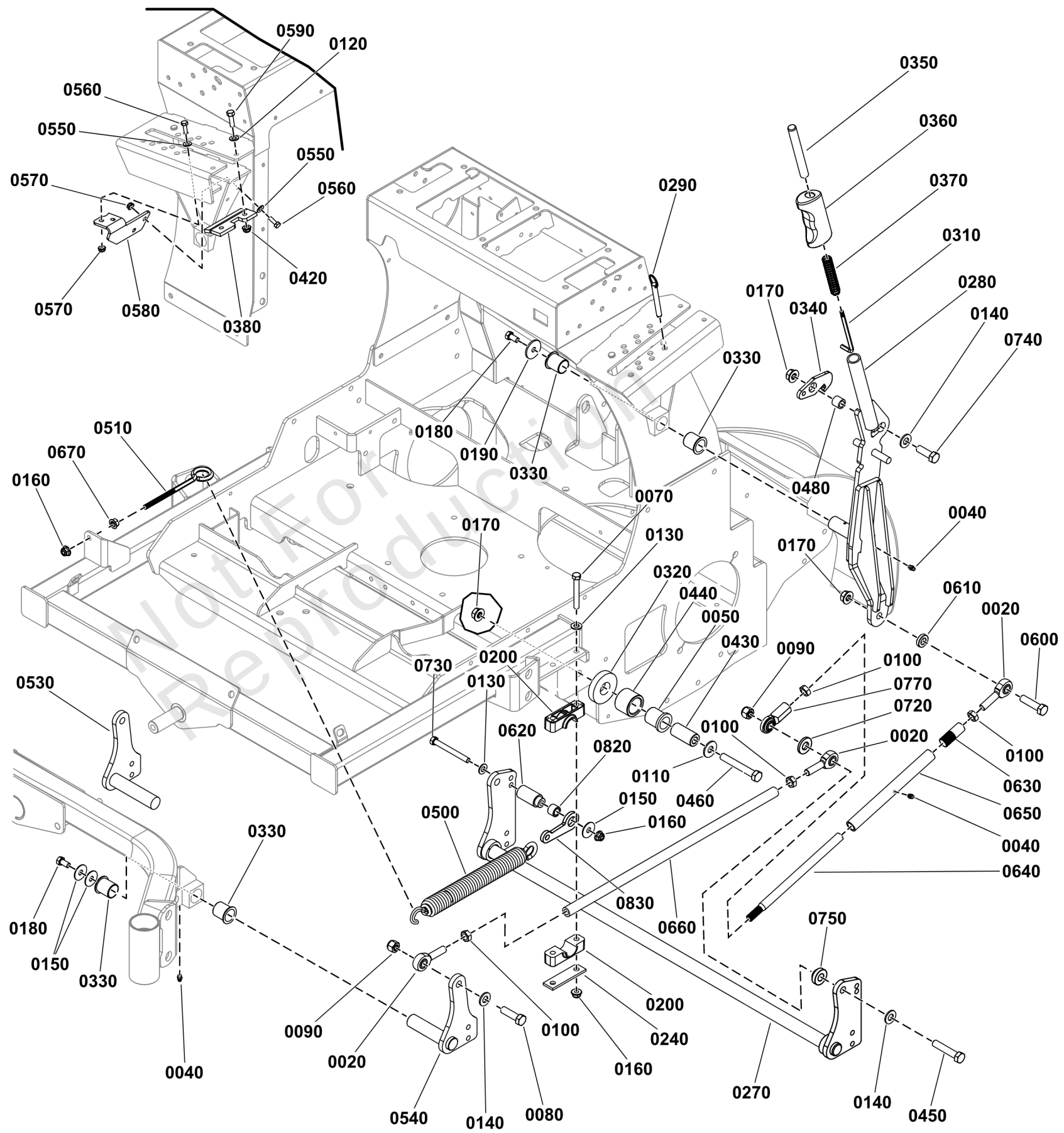
Footnotes:

Note: *If replacing on units in serial number range 4002385844 and below you must also order part number 84013099.

Deck Lift Group - Models w/ 52" Mower Decks

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5901809

Left Hand Components shown.
Unless otherwise noted Right Hand
Components are identical.



Deck Lift Group - Models w/ 52" Mower Decks

REF NO	PART NO	QTY	DESCRIPTION
0630	5105653FS	1	ROD
0640	5105654FS	1	ROD
0650	5105655FS	1	TUBE
0660	5105269FS	2	ROD
0670	5025128SM	1	NUT, 3/8-16 HEX SERRA
0720	5025440SM	1	WASHER, 1/2" YELLOW
0730	5025013X28SM	1	BOLT, 3/8-16 X 3-1/2"
0740	703571	1	CAPSCREW, 1/2-13X1.5
0750	84006987	1	SPACER
0770	1702779SM	1	JOINT-BALL .500-20 TH
0820	5047027SM	1	SPACER, .51 X .75 X .
0830	84013854	1	ARM, Link

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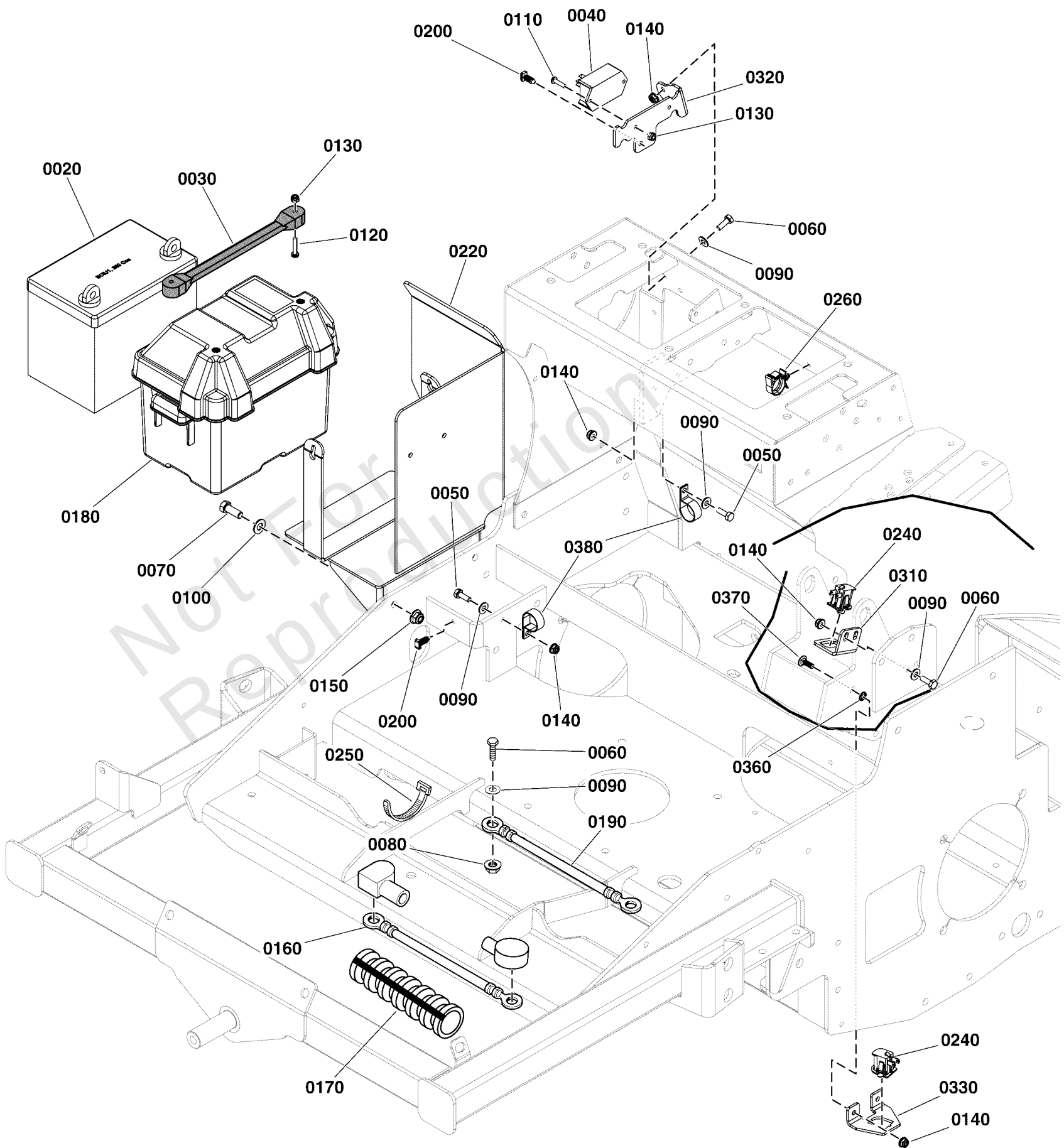
Footnotes:

Note: *If replacing on units in serial number range 4002385844 and below you must also order part number 84013099.

Electrical Group S/N: 2017890935 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809



0210 - WIRE HARNESS, STANDON, WIRING

0280 - WIRE HARNESS, VANGUARD, BIG BLOCK, JUMPER

0340 - WIRE HARNESS JUMPER, BRAKE SWITCH

Electrical Group S/N: 2017890935 & Above

REF NO	PART NO	QTY	DESCRIPTION
0020	-----	1	BATTERY, 11U1L, 350 CCA -(Refer to Note: *)
0030	5021670	1	STRAP, RUBBER
0040	5104879	1	MODULE, TIME DELAY, NO DIODE
0050	-----	2	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
0060	5025010X8	5	BOLT, 1/4-20 X 1" GD5 CZ
0070	5025013X8	2	BOLT, 3/8-16 X 1" GD5 CZ
0080	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
0090	5025154	3	WASHER, 1/4 SAE
0100	5025156	2	WASHER, 3/8 SAE
0110	5025179X6	2	SCREW, #10-24 X 3/4" ROUND PHILLIPS
0120	5025270	2	SCREW, #10-24 X 1 RS, CZ
0130	5025271	4	NUT, Hex, Nylon Lock, #10-24
0140	5025391	6	NUT, 1/4-20 Hex Nylock Flange
0150	5025394	2	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0160	5021542	1	BATTERY CABLE, POS, 30, 1/4-5/16
0170	5050927X19	1	WIRE LOOM, 3/8 ID X 19 IN
0180	5100688	1	BATTERY BOX, W/ DRAIN HOLE
0190	5101396	1	CABLE, BATTERY, NEG, 30, 1/4-5/16
0200	5103761	1	FIR TREE MOUNT, PACKARD -(Secures sealed fuse holders in place.)
0210	5105537	1	HARNESS, Wiring, Stand-On ZTR
0220	5416573B	1	WELD, BATTERY/HYDRO MNT, SRS - RED
0240	1732004	2	SWITCH, Push Button, NO, Black
0250	5021029	3	TIE, SELF-LOCKING, 12"
0260	5104705	5	ROSEBUD LOOM CLIP
0280	5415669	1	WIRE HARNESS, VANGUARD BIG BLOCK,JUMPER
0310	84008438	1	PLATE, Switch
0320	5415529A	1	PLATE, WIRE GUIDE / TDM MOUNT - BLK
0330	5105692	1	PLATE, SWITCH, OPC, SRSZ, CZ
0340	5416834	1	HARNESS, JUMPER, BRAKE SWITCH
0360	80004801	2	BOLT,1/4,PUSHNUT RETAINER,PHOSPHATE/OIL
0370	80003518	2	BOLT,1/4-20X0.750,GR5,STD NECK,SQ,ZC/CL
0380	5021500	2	CLAMP, VINYL INSULATED, 1.00

Footnotes:

Note: *Not for sale. Obtain locally.

Electrical Schematic - Charging Circuit B&S 54E677 / 61E877

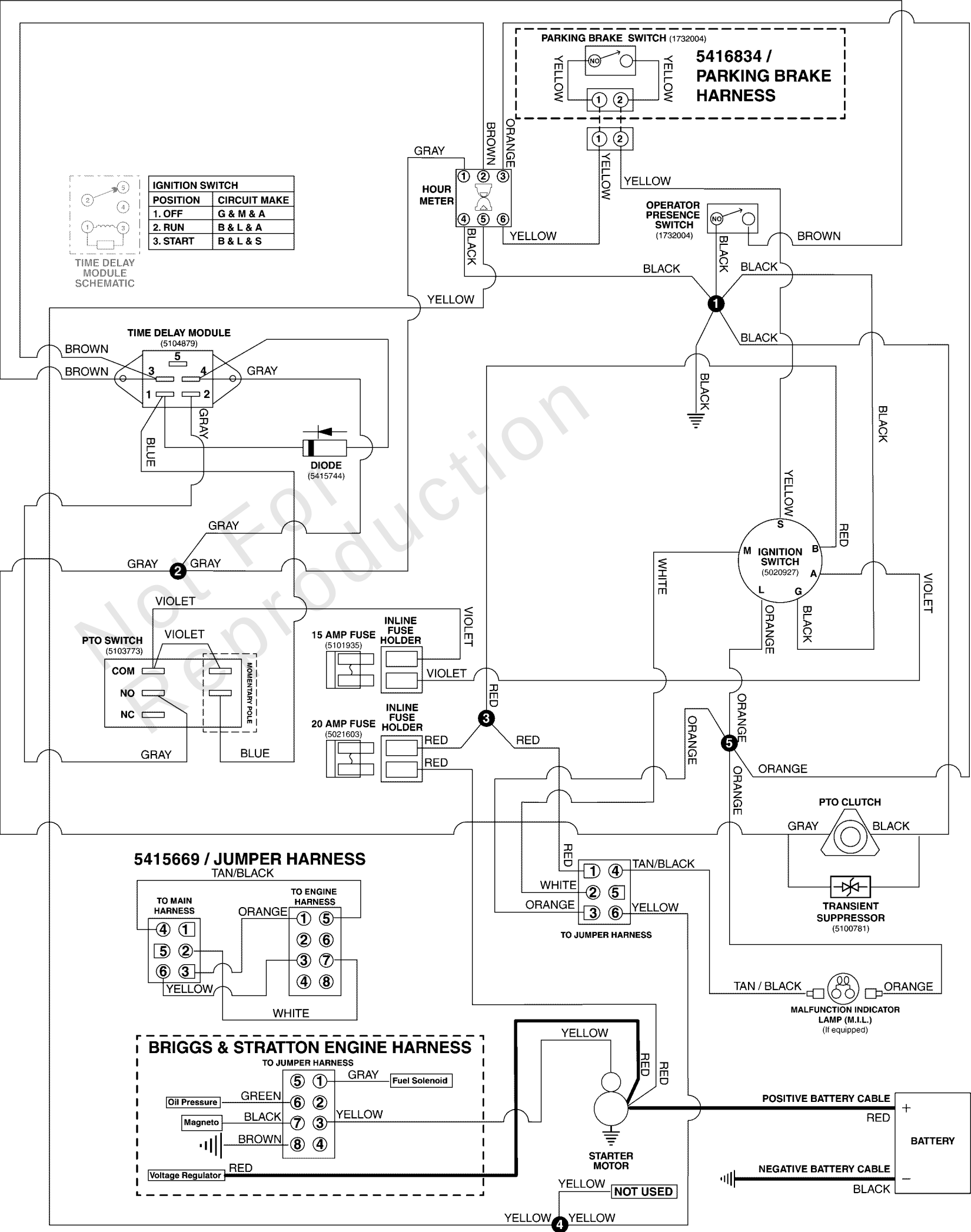
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

5105537 / SRS MAIN WIRE HARNESS - BRIGGS & STRATTON 54E677 / 61E877 ENGINES

5105537A

(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.)



Electrical Schematic - Charging Circuit B&S 54E677 / 61E877

REF NO	PART NO	QTY	DESCRIPTION
5105537	5105537	1	HARNESS, Wiring, Stand-On ZTR
5416834	5416834	1	HARNESS, JUMPER, BRAKE SWITCH
5415669	5415669	1	WIRE HARNESS, VANGUARD BIG BLOCK,JUMPER

Not For Reproduction

Electrical Schematic - Cranking Circuit B&S 54E677 / 61E877

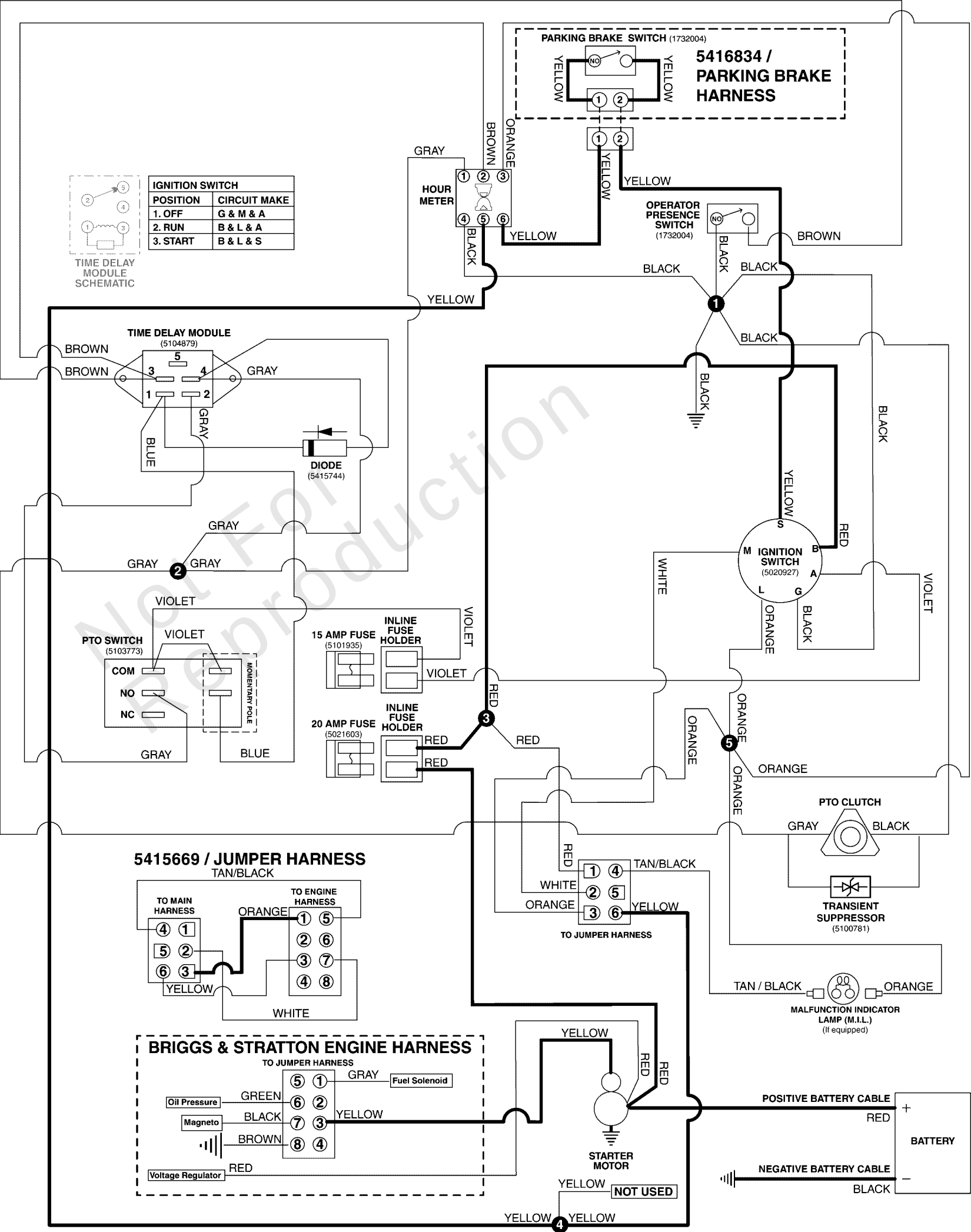
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

5105537 / SRS MAIN WIRE HARNESS - BRIGGS & STRATTON 54E677 / 61E877 ENGINES

5105537A

(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.)



Electrical Schematic - Cranking Circuit B&S 54E677 / 61E877

REF NO	PART NO	QTY	DESCRIPTION
5105537	5105537	1	HARNESS, Wiring, Stand-On ZTR
5416834	5416834	1	HARNESS, JUMPER, BRAKE SWITCH
5415669	5415669	1	WIRE HARNESS, VANGUARD BIG BLOCK,JUMPER

Not For Reproduction

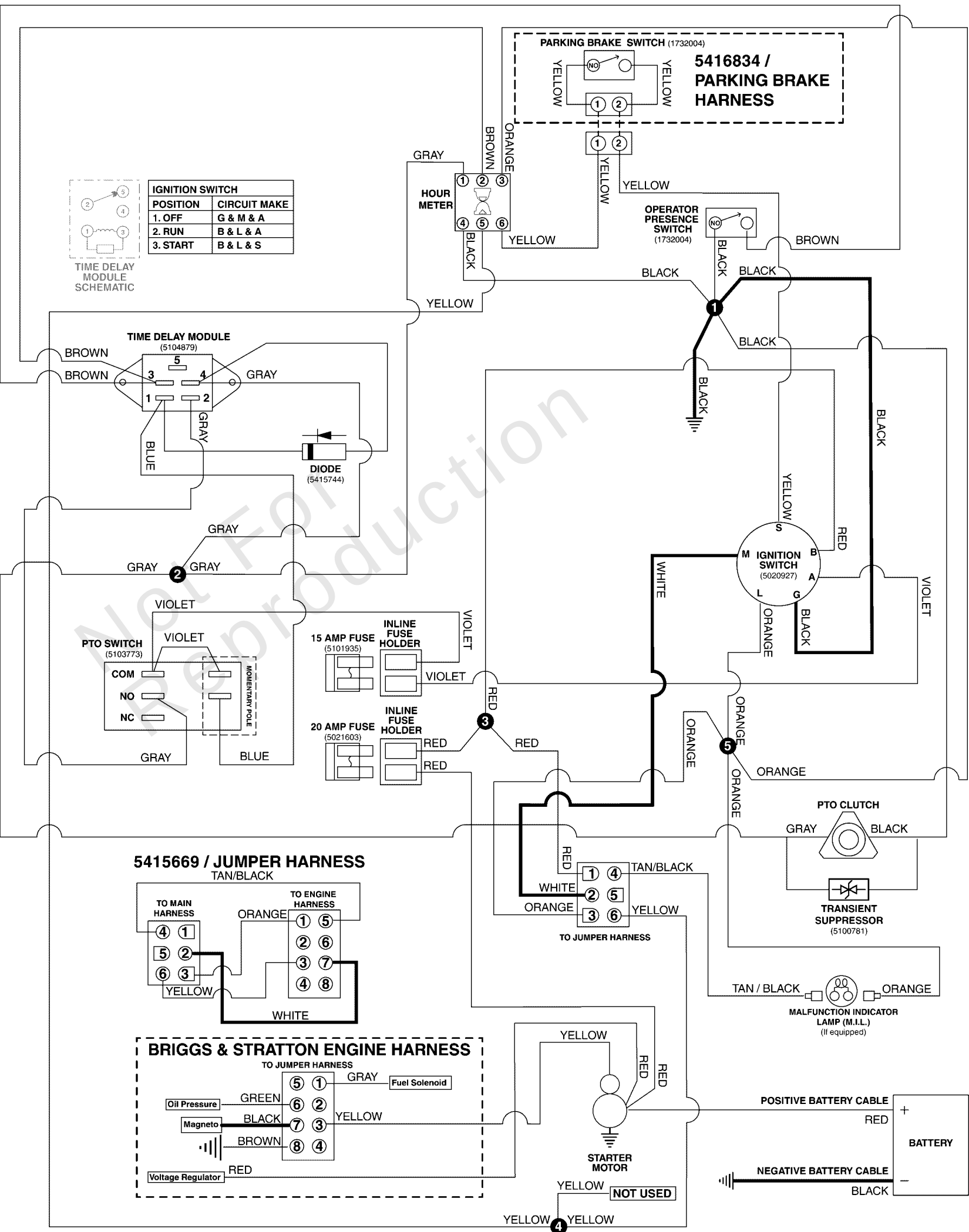
Electrical Schematic - Ignition Grounding Circuit B&S 54E677 / 61E877

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

5105537 / SRS MAIN WIRE HARNESS - BRIGGS & STRATTON 54E677 / 61E877 ENGINES

5105537A



Electrical Schematic - Ignition Grounding Circuit B&S 54E677 / 61E877

REF NO	PART NO	QTY	DESCRIPTION
5105537	5105537	1	HARNESS, Wiring, Stand-On ZTR
5416834	5416834	1	HARNESS, JUMPER, BRAKE SWITCH
5415669	5415669	1	WIRE HARNESS, VANGUARD BIG BLOCK,JUMPER

Not For Reproduction

Electrical Schematic - PTO Op. Pres. Circuit B&S 54E677 / 61E877

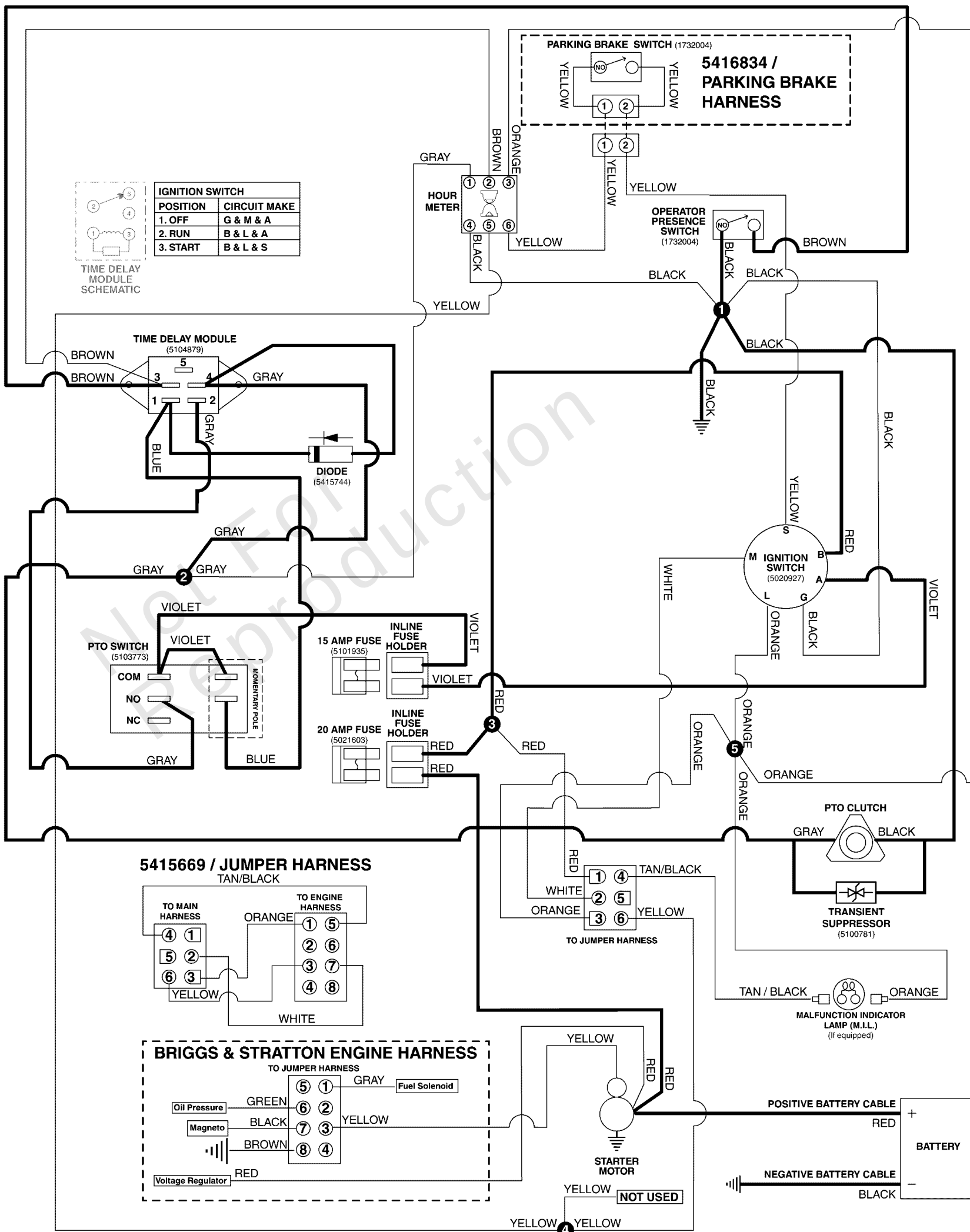
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

5105537 / SRS MAIN WIRE HARNESS - BRIGGS & STRATTON 54E677 / 61E877 ENGINES

5105537A

(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.)



Electrical Schematic - PTO Op. Pres. Circuit B&S 54E677 / 61E877

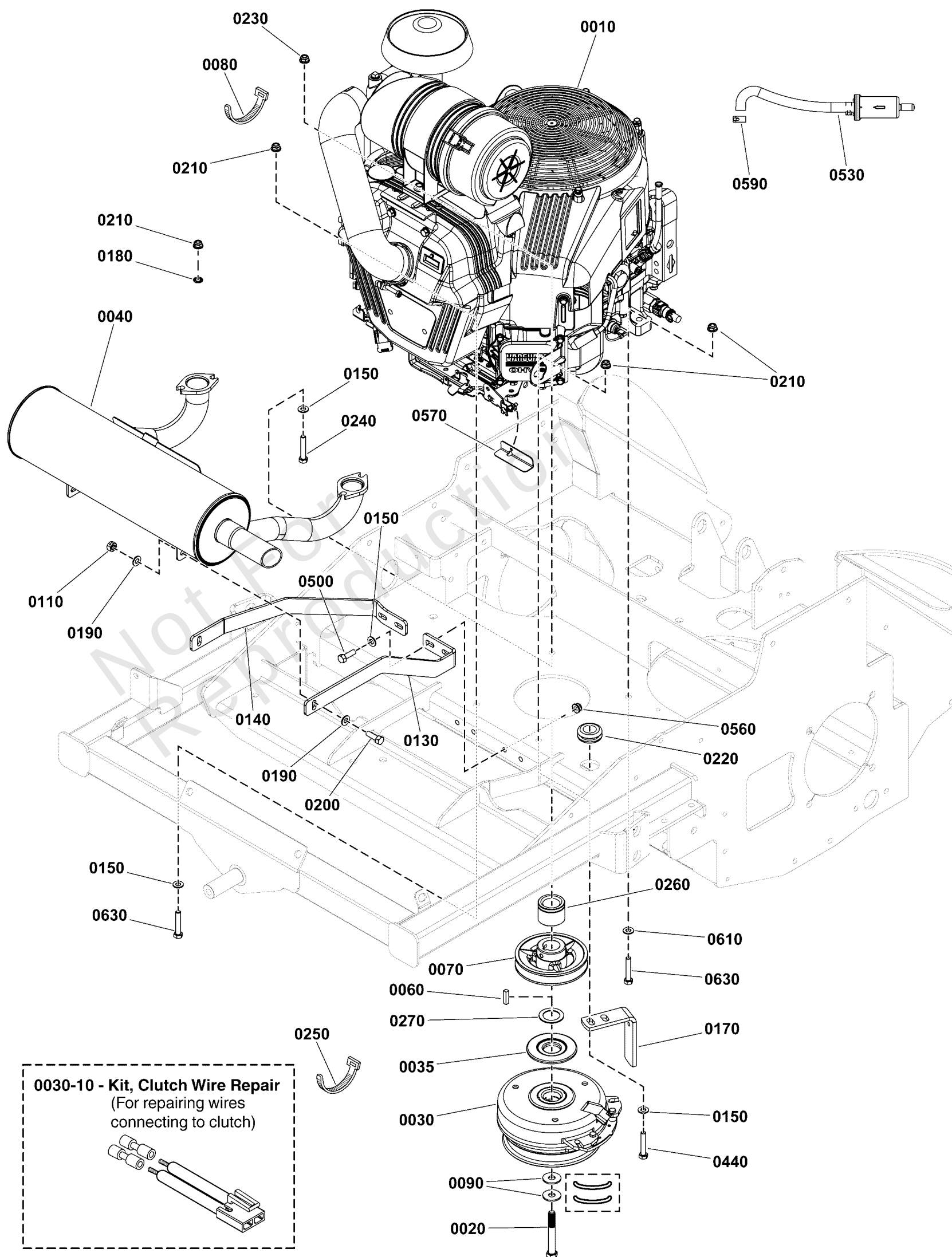
REF NO	PART NO	QTY	DESCRIPTION
5105537	5105537	1	HARNESS, Wiring, Stand-On ZTR
5416834	5416834	1	HARNESS, JUMPER, BRAKE SWITCH
5415669	5415669	1	WIRE HARNESS, VANGUARD BIG BLOCK,JUMPER

Not For Reproduction

Engine & PTO Group - Briggs & Stratton 61E877 S/N: 4002038354 and Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809



Engine & PTO Group - Briggs & Stratton 61E877 S/N: 4002038354 and Below

REF NO	PART NO	QTY	DESCRIPTION
0010	-----	1	ENGINE, Briggs & Stratton, 61E877-0005-J1 -(Refer to Note: *) (S/N: 4000449802 and below)
0010	-----	1	ENGINE, Briggs & Stratton, 61E877-0008-J1 -(Refer to Note: *) (S/N: 4000449803 to 4001863027)
0010	-----	1	ENGINE, Briggs & Stratton, 61E877-0112-J1 -(Refer to Note: *) (S/N: 4001863028 & Above)
0020	5103300	1	BOLT, CRANKSHAFT, 7/16-20 X 3-1/4, GD 8 -(Torque crankshaft bolt to 65 ft-lbs (88 Nm))
0030	-----	1	CLUTCH, if replacing use new clutch p/n 5110177 and water guard p/n 5108851. -(S/N: 4002038354 and below)
0030	5110177	1	CLUTCH, 250 LBS., 1.13", WGC -(S/N: 4002038355 and above)
0030-10	5600575	1	KIT, CLUTCH WIRE REPAIR
0035	5108851	1	WATER GUARD, WARNER C 250 FT-LBS CLUTCH -(S/N: 4002038355 and above)
0040	5601367	1	KIT, Z3X MUFFLER AND MOUNT REPLACEMENT -(Refer to note: *)
0060	5050407X10	1	KEY, 1/4" SQ. X 1-1/4
0070	5021682	1	PULLEY, 4.75 OD X 1-1/8 BORE, BC-48
0080	5101492	1	TIE, SELF-LOCKING, 24"
0090	5025585	2	BELLEVILLE WASHER, 1.1875 X .442 X .098
0110	5025100	2	NUT, Hex, Side Lock, 3/8-16
0130	-----	1	PLATE, EXHAUST BRACKET LH - BLK -(Refer to note: **)
0140	-----	1	PLATE, EXHAUST BRACKET RH - BLK -(Refer to note: **)
0150	5025155	8	WASHER, 5/16" SAE
0170	5404967AA	1	ANCHOR, CLUTCH - BLK
0180	5025188	1	WASHER, 5/16" Internal Tooth Lock
0190	5025156	4	WASHER, 3/8 SAE
0200	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
0210	5025394	3	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0220	5103944	1	GROMMET, 7/8" ID, 1/4" THICK STK
0230	5025616	4	NUT, 5/16-24, TOP LOCK FLANGE, GD8 PHOS
0240	5025025X14	4	BOLT, 5/16-24 X 1-3/4, GD8, PHOS
0250	5021030	1	TIE, SELF-LOCKING, 6"
0260	5100926	1	SPACER, 1.13 X 1.75 X 1.35, CZ
0270	5102271	1	SHIM, .062 THK X 1-1/8 ID X 1-5/8 OD
0440	80003522	1	HHCS, 3/8-16 X 2.00, GR5, ZINC/CLEAR
0500	5025011X8	4	BOLT, 5/16-18 X 1" GRD5 YZ
0530	846732	1	HOSE/FILTER ASSY
0560	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0570	5417151	1	PLATE, SS HEAT SHIELD, Z3-BRIGGS -(Mounts to engine using existing linkage cable hardware.)
0590	5102046	1	CLAMP, HOSE, EXTERNAL, 9/16
0610	5025293	1	WASHER, 3/8" GR. 9 FLAT
0630	5025013X14	2	BOLT, 3/8-16 X 1-3/4" GD5 CZ

Footnotes:

Note: **Replace with kit number 5601367. This kit replaces the muffler and it's mounting brackets and hardware.

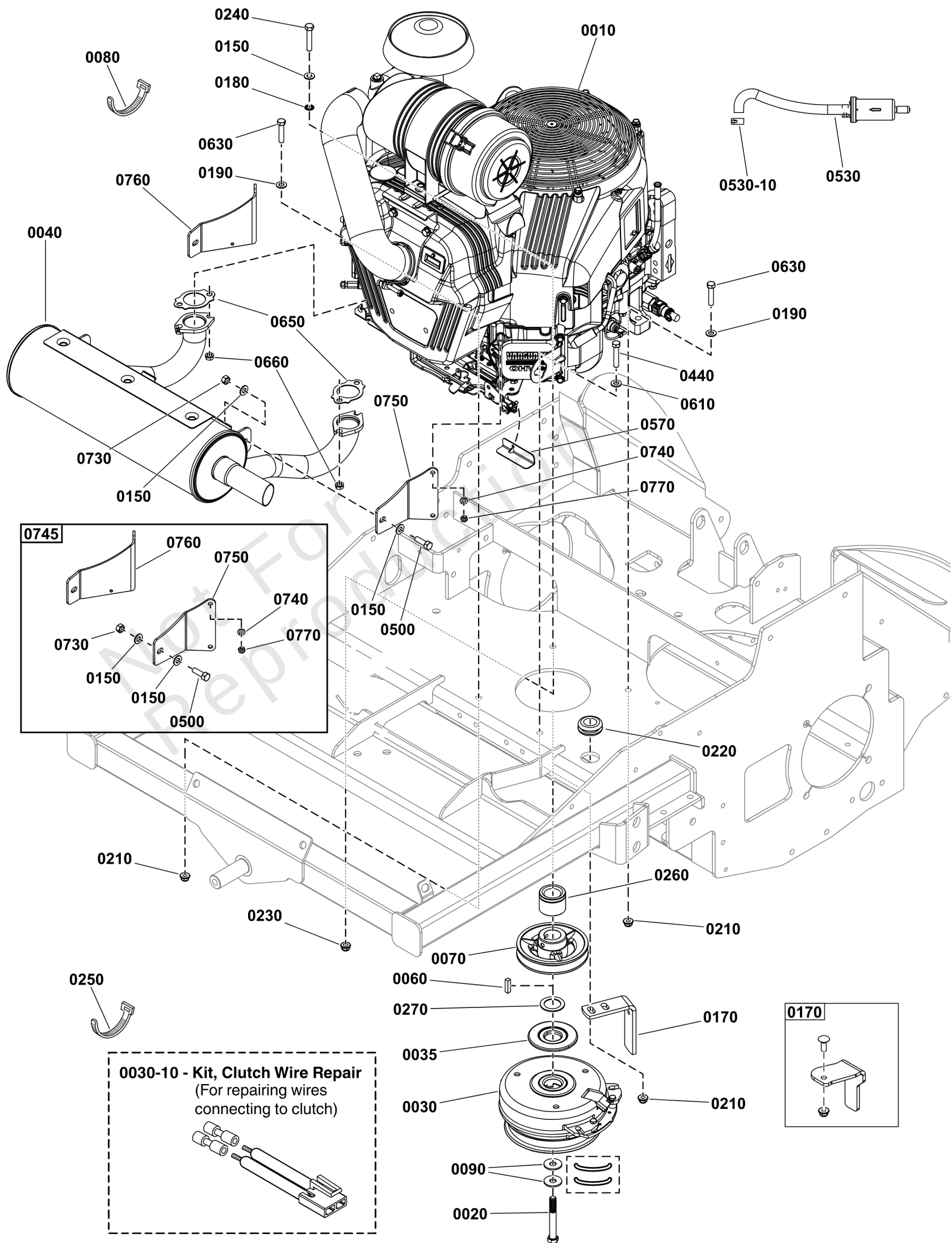
Note: *This kit replaces the muffler and it's mounting brackets and hardware.

Note: *Refer to you local Briggs & Stratton distributor for parts and service.

Engine & PTO Group - Briggs & Stratton 61E877 S/N: 4002038355 and Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809



Engine & PTO Group - Briggs & Stratton 61E877 S/N: 4002038355 and Above

REF NO	PART NO	QTY	DESCRIPTION
0010	-----	1	ENGINE, 37HP EFI, B&S, OIL GUARD (61E877-0112-J1) -(S/N: 4002218814 and below)(Refer to Note: *)
0010	-----	1	ENGINE, 37HP EFI, B&S, OIL GUARD (61A777-0100-J1) -(S/N: 4002218815 and above)(Refer to Note: *)
0020	5103300	1	BOLT, CRANKSHAFT, 7/16-20 X 3-1/4, GD 8 -(S/N: 4002218814 and below)(Refer to Note: *)
0020	5102867	1	BOLT, CRANKSHAFT, 7/16-20 X 3-1/2, GD8 -(S/N: 4002218815 and above)(Refer to Note: *)
0030	5110177	1	CLUTCH, 250 LBS., 1.13", WGC
0030-10	5600575	1	KIT, CLUTCH WIRE REPAIR
0035	5108851	1	WATER GUARD, WARNER C 250 FT-LBS CLUTCH
0040	5601367	1	KIT, Z3X MUFFLER AND MOUNT REPLACEMENT -(S/N: 4002218814 and below)
0040	84008436	1	MUFFLER -(S/N: 4002218815 and above)
0060	5050407X10	1	KEY, 1/4" SQ. X 1-1/4
0070	5021682	1	PULLEY, 4.75 OD X 1-1/8 BORE, BC-48
0080	5101492	1	TIE, SELF-LOCKING, 24"
0090	5025585	2	BELLEVILLE WASHER, 1.1875 X .442 X .098
0150	5025155	8	WASHER, 5/16" SAE
0170	5404967AYP	1	ANCHOR, CLUTCH - BLK -(S/N: 4002503298 and below)
0170	84013681	1	ANCHOR, Clutch -(S/N: 4002503299 and above)
0180	5025188	1	WASHER, 5/16" Internal Tooth Lock
0190	5025156	2	WASHER, 3/8 SAE
0210	5025394	3	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0220	5103944	1	GROMMET, 7/8"ID, 1/4" THICK STK
0230	5025616	1	NUT, 5/16-24, TOP LOCK FLANGE, GD8 PHOS
0240	5025025X14	1	BOLT, 5/16-24 X 1-3/4, GD8, PHOS
0250	5021030	2	TIE, SELF-LOCKING, 6"
0260	5100926	1	SPACER, 1.13 X 1.75 X 1.35, CZ
0270	5102271	1	SHIM, .062 THK X 1-1/8 ID X 1-5/8 OD
0440	80003522	1	HHCS, 3/8-16 X 2.00, GR5, ZINC/CLEAR
0500	5025011X8	2	BOLT, 5/16-18 X 1" GRD5 YZ
0530	846732	1	HOSE/FILTER ASSY
0530-10	5102046	1	CLAMP, HOSE, EXTERNAL, 9/16
0570	5417151	1	PLATE, SS HEAT SHIELD, Z3-BRIGGS -(S/N: 4002218814 and below)(Refer to Note: *)
0610	5025293	1	WASHER, 3/8" GR. 9 FLAT
0630	5025013X14	2	BOLT, 3/8-16 X 1-3/4" GD5 CZ
0650	809872	2	GASKET, Exhaust -(Order this part from your local PD warehouse).
0660	690941	4	NUT -(Order this part from your local PD warehouse).
0730	80003675	2	NUT, 5/16-1/8, HEX, CNTR LK, ZINC PHOS/OIL
0740	5025169	4	WASHER, 1/4 LOCK
0745	84013561	1	KIT, Muffler Bracket -(Includes Mounting Hardware.)
0750	84007953	1	BRACKET, Muffler -(Left side)

Footnotes:

Note: *Mounts to engine using existing linkage cable hardware.

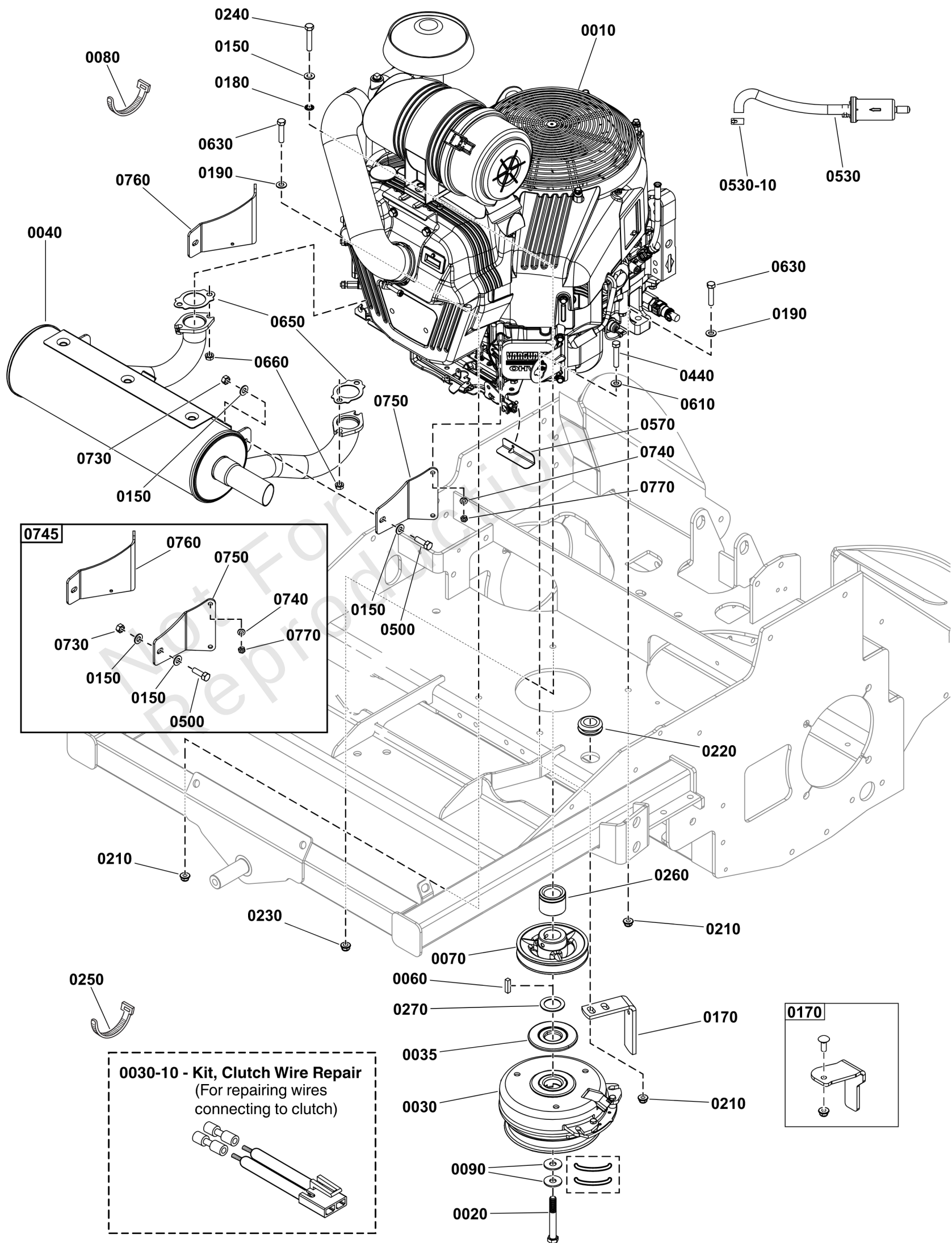
Note: *Torque crankshaft bolt to 65 ft-lbs (88 Nm)

Note: *Refer to you local Briggs & Stratton distributor for parts and service.

Engine & PTO Group - Briggs & Stratton 61E877 S/N: 4002038355 and Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809



Engine & PTO Group - Briggs & Stratton 61E877 S/N: 4002038355 and Above

REF NO	PART NO	QTY	DESCRIPTION
0760	84007954	1	BRACKET, Muffler -(Right side)
0770	5025420	4	NUT, M6-1.0

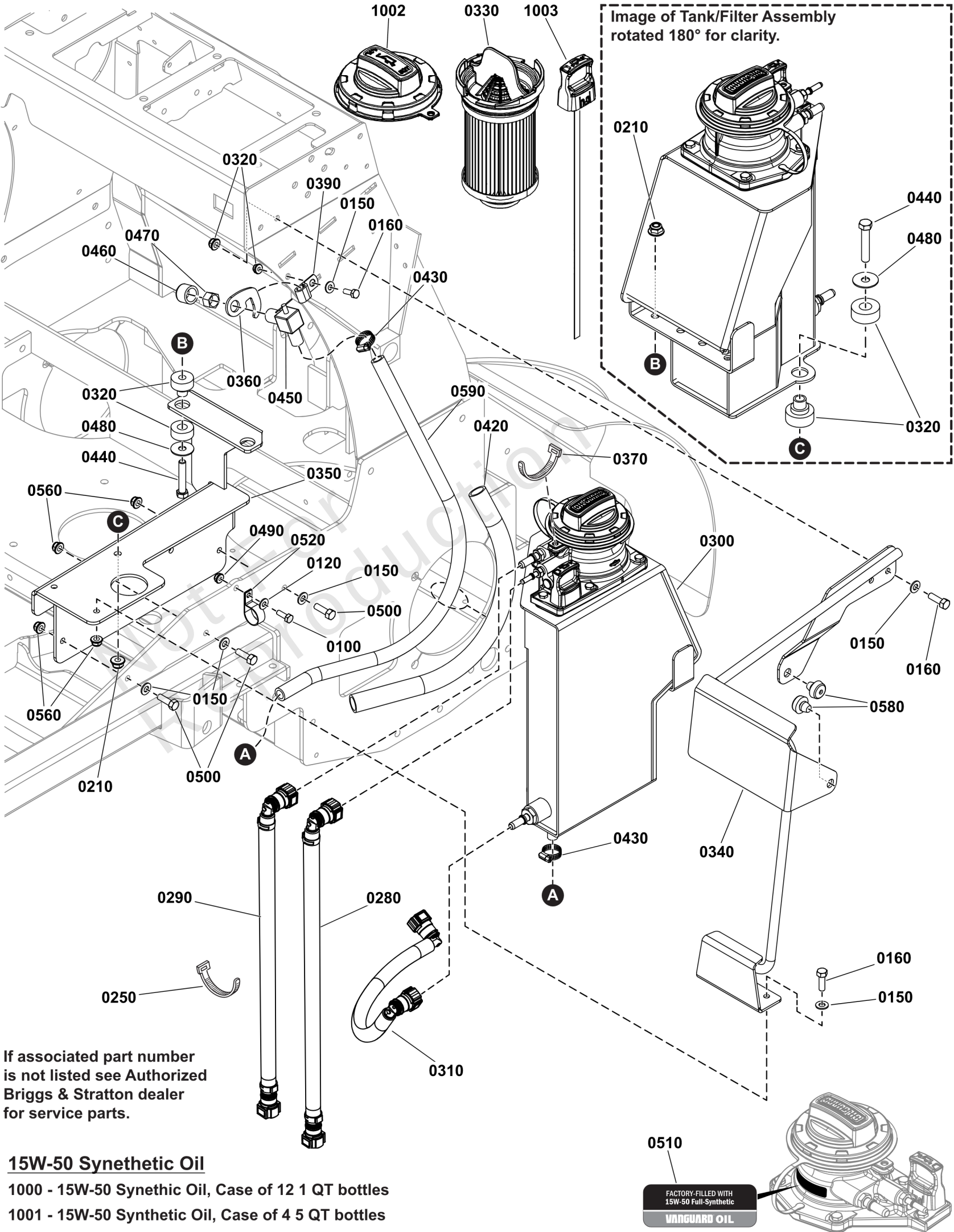
Not For
Reproduction

Footnotes:

- Note: *Mounts to engine using existing linkage cable hardware.
- Note: *Torque crankshaft bolt to 65 ft-lbs (88 Nm)
- Note: *Refer to you local Briggs & Stratton distributor for parts and service.

Engine Remote Oil Tank, Hoses & Mount Group

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5901809



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

15W-50 Synthetic Oil

1000 - 15W-50 Synthetic Oil, Case of 12 1 QT bottles

1001 - 15W-50 Synthetic Oil, Case of 4 5 QT bottles

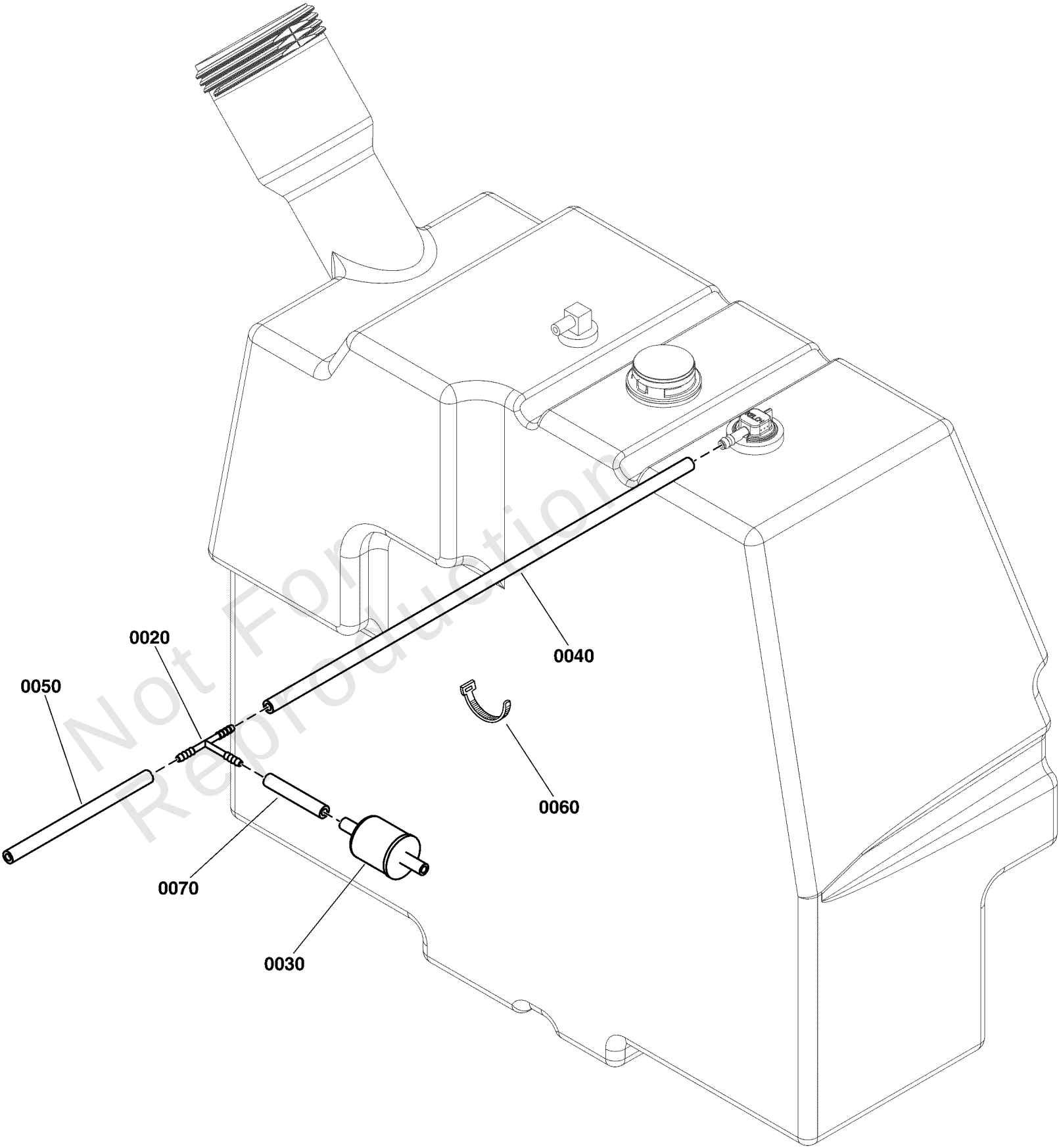
Engine Remote Oil Tank, Hoses & Mount Group

REF NO	PART NO	QTY	DESCRIPTION
0100	5025010X8	1	BOLT, 1/4-20 X 1" GD5 CZ
0120	5025154	1	WASHER, 1/4 SAE
0150	5025155	7	WASHER, 5/16" SAE
0160	5025011X6	5	BOLT, 5/16-18 X 3/4 GD5
0210	5025394	3	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0250	5021030	1	TIE, SELF-LOCKING, 6"
0280	595943	1	HOSE, Oil Vent -(Refer to Note: *)
0290	84006597	1	HOSE, Oil Scavenge -(Refer to Note: *)
0300	595945	1	TANK, Oil -(Refer to Note: *) (S/N: 4001863027 & Below)
0300	84008062	1	TANK/FILTER ASSY -(Refer to Note: *) (S/N: 4001863028 & Above)
0310	595938	1	HOSE, Oil Supply -(Refer to Note: *) (S/N: 4001863027 & Below)
0310	84006654	1	HOSE, OIL SUPPLY -(Refer to Note: *) (S/N: 4001863028 & Above)
0320	5023131	3	MOUNT, ISO, BOTTOM, RAD 5000Z-DIESEL
0330	84007094	1	FILTER, Oil -(Includes item #0370)
0340	5416011AA	1	WELD, TANK GUARD, Z2 - BLK
0350	84013627	1	MOUNT, TANK
0360	5415914AA	1	PLATE, DRAIN HOOK, OG - BLK
0370	5021030SM	1	TIE WRAP, 5-1/2" LONG
0390	5025430	1	CLAMP, 5/16", DOUBLE, WIRE & TUBE
0420	5100384X18	1	LOOM, CONVOLUTED SPLIT, 1 ID - 18 LONG
0430	5021392	2	CLAMP, #6 HOSE, STAINLESS
0440	80003522	3	HHCS, 3/8-16 X 2.00, GR5, ZINC/CLEAR
0450	5105177	1	VALVE, OIL DRAIN, M16X1.5 TO 1/2"
0460	5105317	1	OIL DRAIN CAP, OIL GUARD, DAPCO 4692
0470	5105318	1	NUT, HEX, M16-1.5, DAPCO 4071
0480	5025165	3	WASHER, 3/8" Fender
0490	5025391	1	NUT, 1/4-20 Hex Nylock Flange
0500	5025011X8	3	BOLT, 5/16-18 X 1" GRD5 YZ
0510	-----	1	LABEL, OIL INFORMATION
0520	5021500	1	CLAMP, VINYL INSULATED, 1.00
0560	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0580	197546	2	MNT, VBRTN, RBBR
0590	5105661	1	HOSE, Formed, Oil Guard
1000	100169	1	OIL-1QT VANGUARD (CASE) -(Case of twelve 1 QT bottles)
1001	100170	1	OIL-5QT VANGUARD (CASE) -(Case of four 5 QT bottles)
1002	595931	1	CAP, Oil Fill -(Yellow Cap)(Refer to Note: *)
1002	84008058	1	CAP, Oil Fill -(Black Cap)(Refer to Note: *)
1003	595603	1	DIPSTICK -(Refer to Note: *)

Footnotes:

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

5305042



Evap Group

REF NO	PART NO	QTY	DESCRIPTION
0020	5103062	1	FITTING, 3/16" TEE, BARB TYPE, HDPE
0030	80025019	1	FILTER, FUEL
0040	7700552X22	1	HOSE, VAPOR, 5MM ID, 22.00 LG
0050	7700552X5	1	HOSE, VAPOR, 5MM ID, 5.00 LG
0060	5021030	5	TIE, SELF-LOCKING, 6"
0070	7700552X2	1	HOSE, VAPOR, 5MM ID, 2.00 LG

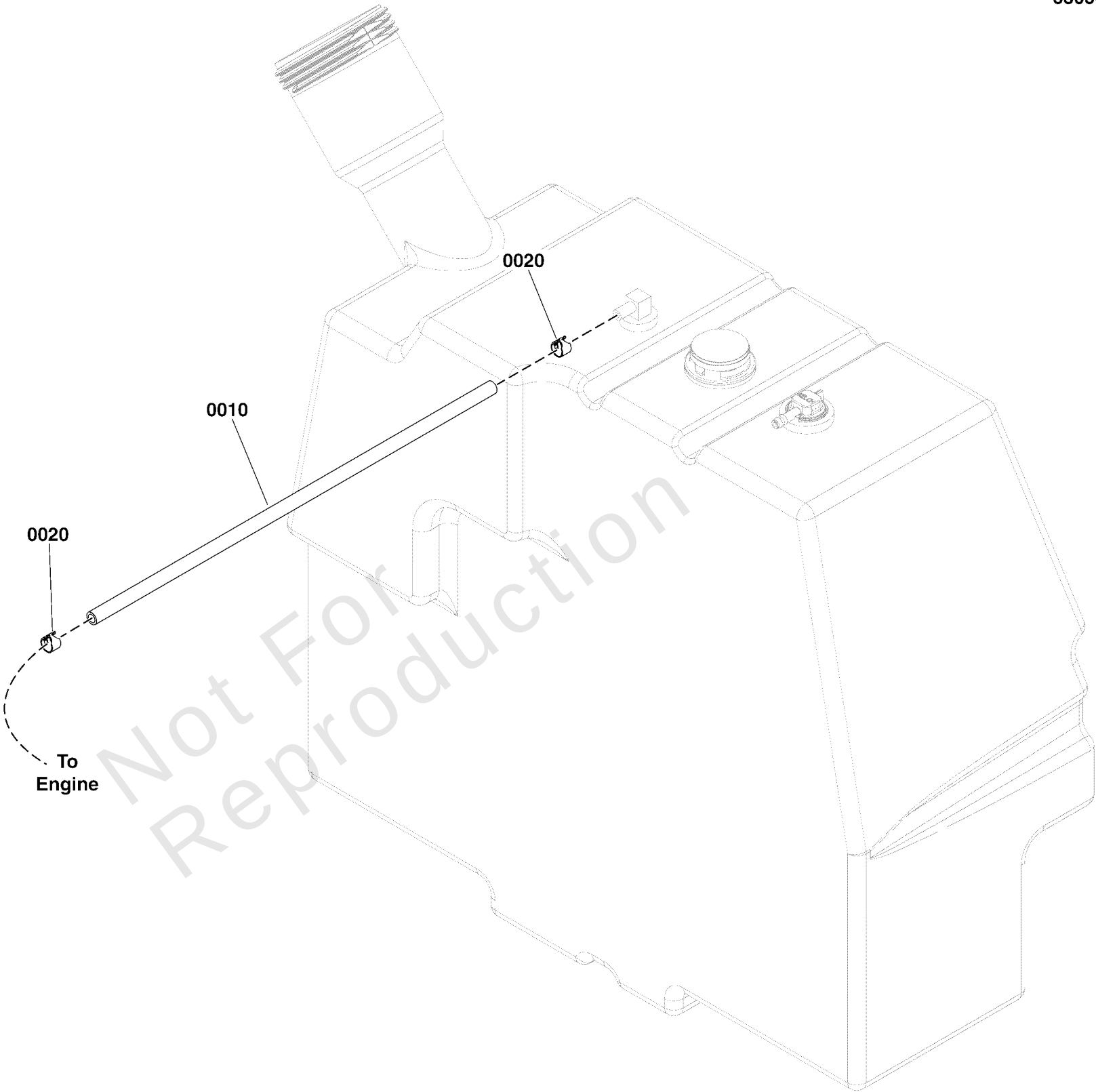
Not For Reproduction

Fuel Hose & Supply Group - Models w/ Briggs & Stratton Engine

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

5305044



Fuel Hose & Supply Group - Models w/ Briggs & Stratton Engine

REF NO	PART NO	QTY	DESCRIPTION
0010	5050831X7	1	1/4" Fuel Line, 7" Long
0020	93807	2	CLAMP, Hose

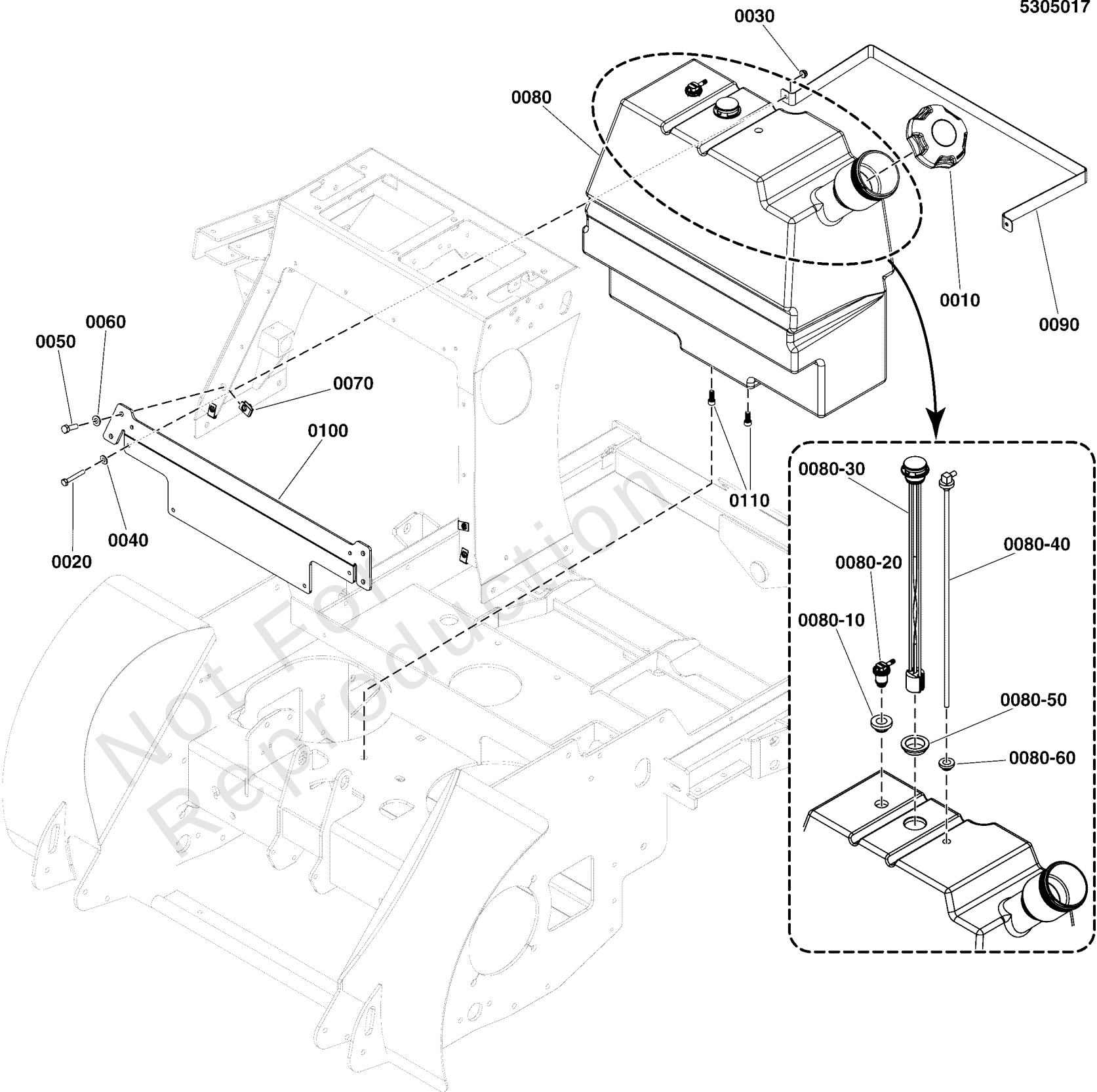
Not For Reproduction

Fuel Tank & Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

5305017



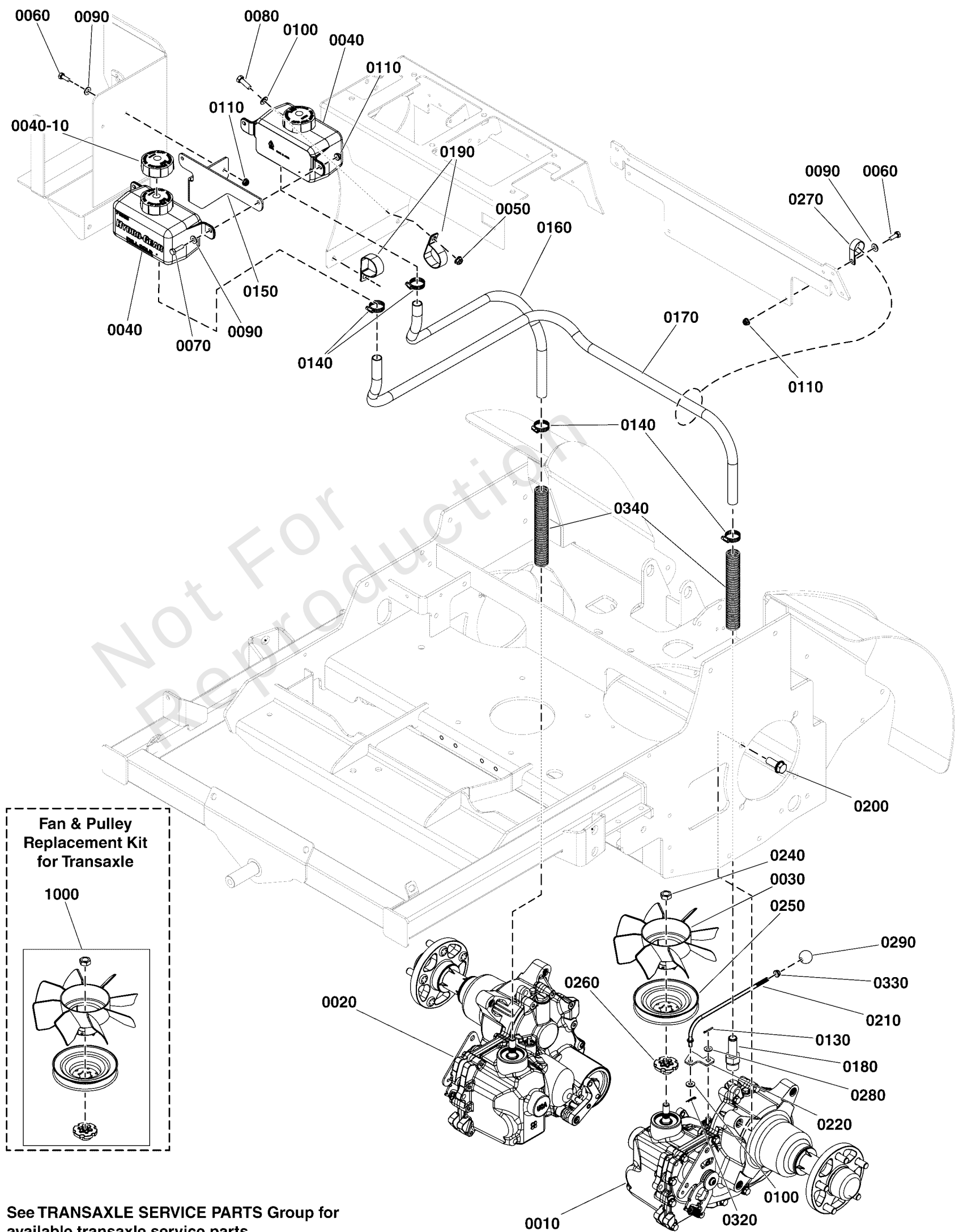
Fuel Tank & Mount Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5104686	1	FUEL CAP, 3.25", MANAGED VENT, 16" TETHER
0020	5025010X16	2	BOLT, 1/4-20 X 2", GD5
0030	5025391	2	NUT, 1/4-20 Hex Nylock Flange
0040	5025154	2	WASHER, 1/4 SAE
0050	5025011X9	4	BOLT, 5/16-18 X 1-1/8 GD5 CZ
0060	5025155	4	WASHER, 5/16" SAE
0070	5022308	4	BODY CLIP, 5/16-18-7GA MATERIAL
0080	5104970	1	TANK, FUEL, SRSZ3 -(Includes Components 0080-10, 0080-20, 0080-30, 0080-40, 0080-50 & 0080-60)
0080-10	209043	1	GROMMET (SV)
0080-20	770046	1	REMOTE VENT ASSEMBLY
0080-30	5105477	1	GAUGE, FUEL, 18.5", MAG -(Includes component 0080-50)
0080-40	5104994	1	ASM, PICKUP TUBE, FUEL TANK, 18.00"
0080-50	-----	1	RUBBER SEAL -(Included with component 0080-30)
0080-60	1726400	1	BUSHING-FUEL TANK RED RUBBER
0090	5415124A	1	STRAP, FUEL TANK, SRSZ3 - BLK
0100	5415123B	1	PLATE, TANK MOUNT, SRSZ3 - RED
0110	84008512	2	SCREW, SOC HD, 5/16-18 X 1/2

Hydraulic Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809



Hydraulic Group

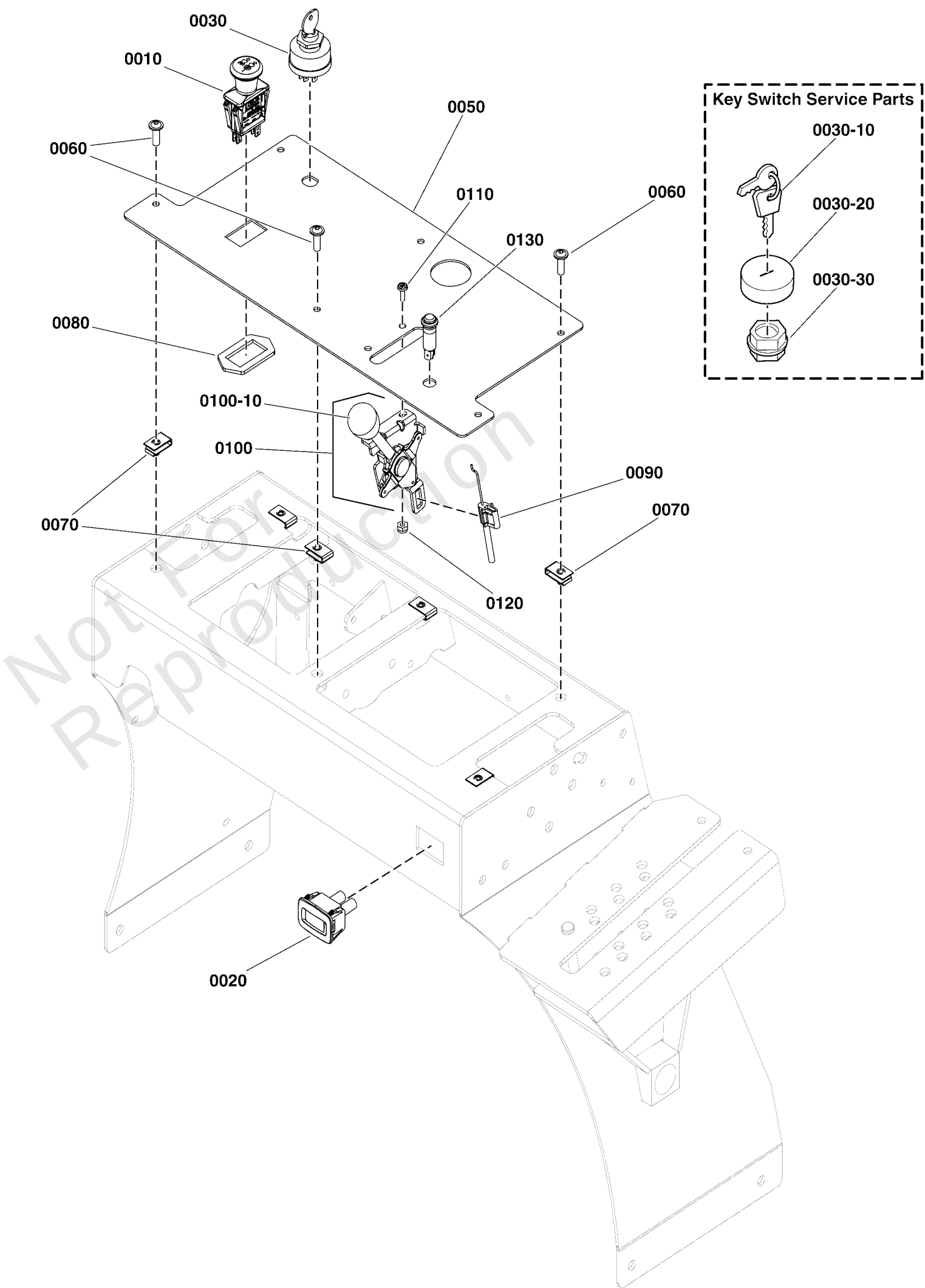
REF NO	PART NO	QTY	DESCRIPTION
0010	84008730	1	TRANSAXLE
0020	84008731	1	TRANSAXLE
0030	84009382	2	FAN
0040	5101998YP	2	HYDRO TANK, HYDRO-GEA
0040-10	5100778X1YP	2	RESERVIOR CAP (SV) -(One per hydraulic oil tank)
0050	703115	1	NUT
0060	5025010X6SM	4	BOLT, 1/4-20 X 3/4" G
0070	5025010X8SM	2	BOLT, 1/4-20 X 1", GD
0080	5025011X8FS	1	BOLT
0090	703332	6	WASHER
0100	703350	3	WASHER
0110	5025391FS	6	NUT
0130	703312	2	PIN, COTTER, 3/32X.75
0140	5021164SM	4	CLAMP, #10 HOSE, STAI
0150	5415122BFS	1	MOUNT, TANK
0160	5050933X27FS	1	HOSE
0170	5050933X50FS	1	HOSE
0180	5101987X1YP	2	FITTING, BREATHER, ZT
0190	5023263SM	2	CLAMP, VINYL
0200	5025535YP	8	BOLT,HEX FLG,SER,GD8
0210	5105462FS	2	ROD, LIFT
0220	84008793	2	LEVER, Actuator
0240	5102916YP	2	NUT, ZT5400 -(Torque transaxle fan nut to 540-660 in-lbs (61-75 Nm)
0250	84010059	2	PULLEY
0260	84009636	2	HUB
0270	5021500FS	2	CLAMP
0280	5023202SM	2	WASHER,WAVE,M10
0290	5105628FS	2	KNOB
0320	5025211SM	2	PIN, HAIR, .0585" X 1
0330	5025045SM	2	NUT, 5/16-24 HEX NYLO
0340	84008571	2	WIRE, Loom
1000	84009383	1	KIT, PULLEY, FAN -(Service Kit that consists of items: 0240, 0030, 0250 & 0260)

Instrument Control Panel Group - Models w/ Briggs & Stratton Engine

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

5305018



Instrument Control Panel Group - Models w/ Briggs & Stratton Engine

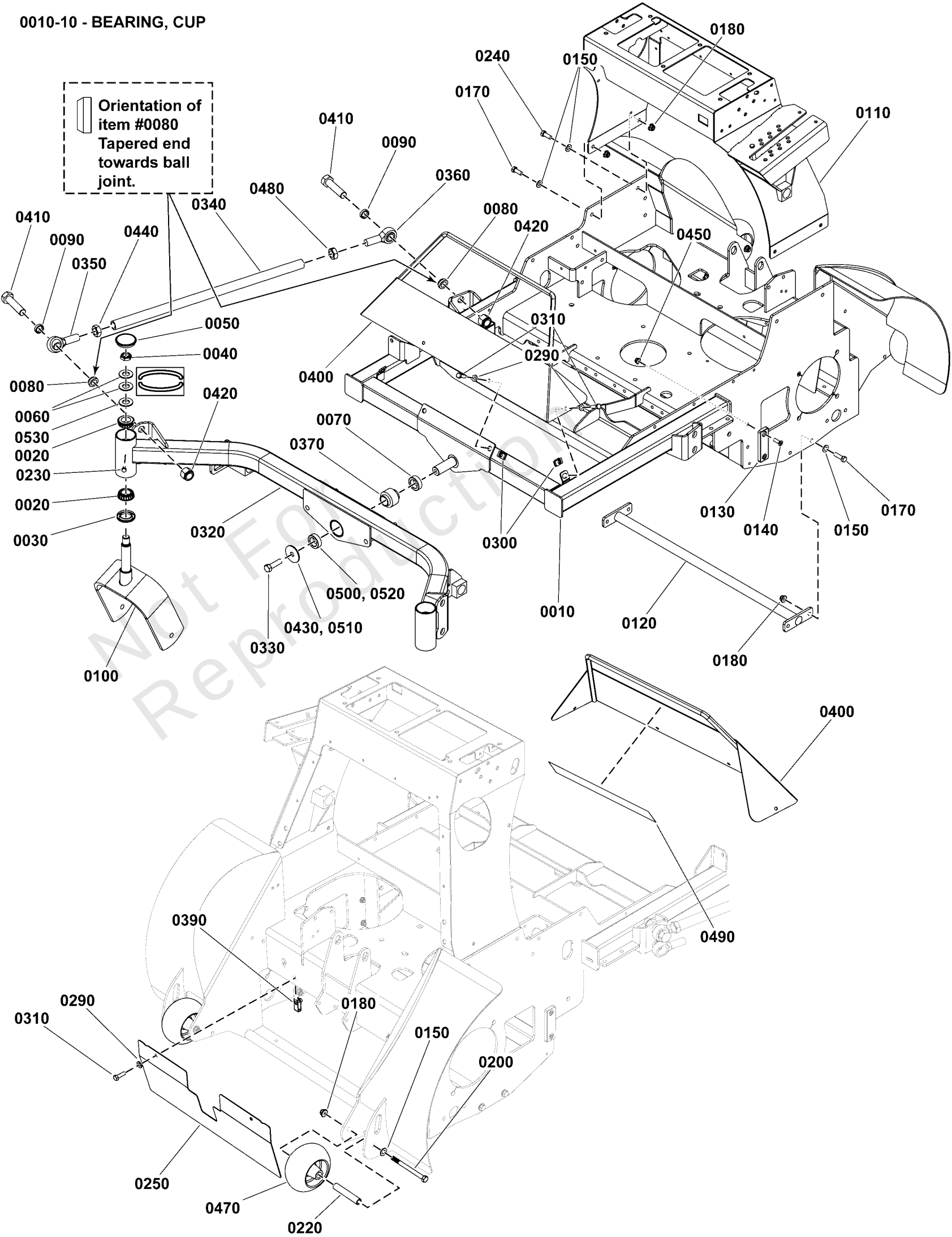
REF NO	PART NO	QTY	DESCRIPTION
0010	5104697	1	PTO SWITCH, MOMENTARY, SMALL KNOB
0020	84008510	1	HOURLMETER (6 Pin Connector)
0030	5020927	1	SWITCH, IGNITION, 6 POST
0030-10	5022789	1	KEY, IGNITION MOLDED SET
0030-20	5022790	1	COVER, PLASTIC, SNAP ON
0030-30	5022791	1	PLASTIC NUT
0050	5601070	1	DASH PANEL W/DECALS, SRS Z3, B&S
0060	5106757	6	SCREW, FLANGE, ALLEN HD, 1/4-20 X .75 SS
0070	5022665	6	BODY CLIP, 1/4-20 X 1/2" DEEP
0080	5022222	1	RING, SWITCH RETAINER
0090	5101074	1	CABLE, THROTTLE, 40"
0100	5101995	1	LEVER, HEAVY DUTY, THROTTLE CONTROL
0100-10	5046360X1	1	THROTTLE CONTROL HANDLE/KNOB
0110	5025179X4	2	SCREW, #10-24 X 1/2" ROUND PHILLIPS
0120	5025271	2	NUT, Hex, Nylon Lock, #10-24
0130	5103809	1	LIGHT, INDICATOR, PANEL, LED, RED

Main Frame & Front Casters Group - Models w/ 52" Mower Decks - S/N 4002516643 and

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

0010-10 - BEARING, CUP



Main Frame & Front Casters Group - Models w/ 52" Mower Decks - S/N 4002516643 and

REF NO	PART NO	QTY	DESCRIPTION
0010	-----	1	FRAME -(Refer to Note: *)
0010-10	5020883SM	4	BEARING CUP
0020	5020884SM	4	BEARING, TAPERED ROLL
0030	5021072SM	2	SEAL, GREASE
0040	5025448SM	2	NUT - 3/4-16 HEX JAM
0050	5109845FS	2	CAP
0060	5025449SM	4	WASHER, BELLEVILLE
0070	5041476SM	1	SPACER, 1.02 X 1.56 X
0080	-----	8	SPACER -(S/N: 4000162964 & Below)(Refer to Note: **)
0080	5108732FS	8	SPACER -(S/N: 4000162965 & Above)
0090	5047461SM	8	SPACER, .76 X 1.00 X
0100	5419196BFS	2	YOKE, CASTER
0110	84013099	1	CONTROL, Tower -(Includes items #0150, 0170, 0180, and 0240.) (Refer to Note: *)
0120	84010511	1	BRACE, Cross
0130	5102702YP	2	PAD, FRICTION
0140	5025594YP	4	SCREW, 5/16-18 X 1
0150	5025156FS	10	WASHER
0170	5025013X10SM	5	BOLT, 3/8-16 X 1-1/4"
0180	5025394SM	10	NUT, 3/8-16 HEX NYLOCK
0200	5025013X36YP	2	BOLT, 3/8-16 X 4-1/2
0220	5105554YP	2	SPACER
0230	5025457SM	2	BOLT - 1/4-28 X 1/2
0240	5025013X8SM	3	BOLT, 3/8-16 X 1" GD5
0250	5415126BFS	1	PLATE, Guard
0290	703350	6	WASHER
0300	5022308SM	4	BODY CLIP, 5/16-18 X
0310	5025011X8FS	6	BOLT
0320	5417790BFS	1	PIVOT
0330	5025018X10SM	1	BOLT, 1/2-20 X 1-1/4" GD8 CZ -(Torque the pivoting front end mounting bolt to 120 lbs-ft (163 Nm))
0340	5106451FS	4	ROD, Support
0350	5022039SM	4	BALL JOINT, 3/4-16, M
0360	5102756FS	4	JOINT, BALL
0370	5105457FS	1	BUSHING
0390	5025452YP	2	CLIP
0400	84008425	1	GUARD, FRONT
0410	5025265X24SM	8	BOLT, 3/4-16 X 3" YZ
0420	5025284SM	8	NUT, 3/4-16 HEX NYLON
0430	84010423	1	WASHER -(S/N: 4000629850 & Below)(Refer to Note: ***)
0440	5025093SM	4	NUT, 3/4-16 HEX JAM
0450	703115	4	NUT
0470	5105521FS	2	WHEEL
0480	5025580FS	4	NUT

Footnotes:

Note: ***Replace items #0430 and #0500 with items #0510 and #0520, respectively.

Note: *If replacing on units in serial number range 4002385844 and below you must also order part number 84013100.

Note: **If replacing this spacer for units in this serial number range, replace all eight spacers with the spacer listed in the higher serial number range

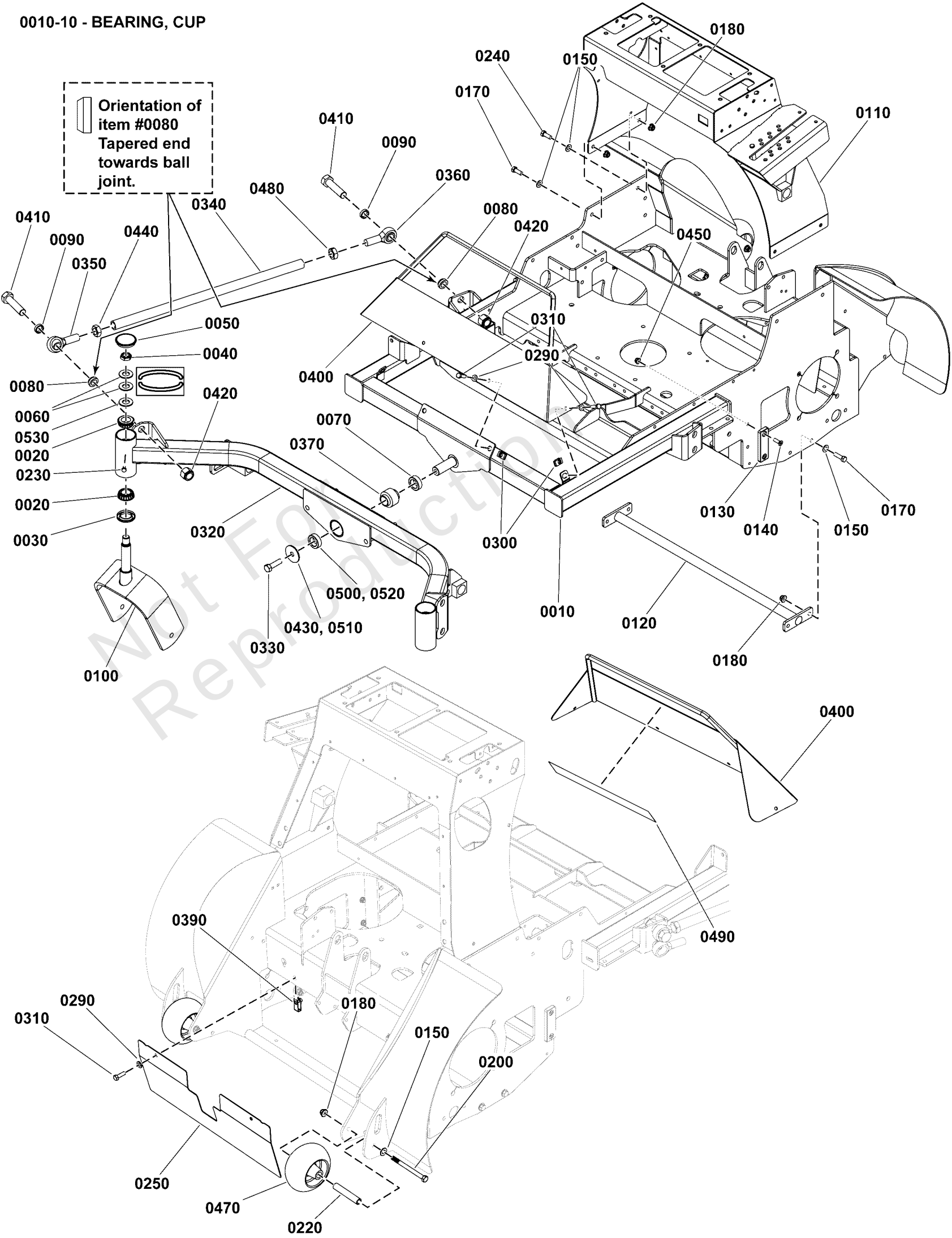
Note: *If replacing contact the Service Department at 1-800-933-6175.

Main Frame & Front Casters Group - Models w/ 52" Mower Decks - S/N 4002516643 and

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

0010-10 - BEARING, CUP



Main Frame & Front Casters Group - Models w/ 52" Mower Decks - S/N 4002516643 and

REF NO	PART NO	QTY	DESCRIPTION
0490	5021125X14	1	ALUM. FOIL TAPE - 14.00 LONG
0500	-----	1	SPACER -(S/N: 4000629850 & Below)(Refer to Note: ***)
0510	5108172FS	1	WASHER -(S/N: 4000629851 & Above)
0520	5108173FS	1	SPACER -(S/N: 4000629851 & Above)
0530	5025160SM	2	WASHER, 3/4" SAE

Not For
Reproduction

Footnotes:

Note: ***Replace items #0430 and #0500 with items #0510 and #0520, respectively.

Note: *If replacing on units in serial number range 4002385844 and below you must also order part number 84013100.

Note: **If replacing this spacer for units in this serial number range, replace all eight spacers with the spacer listed in the higher serial number range

Note: *If replacing contact the Service Department at 1-800-933-6175.

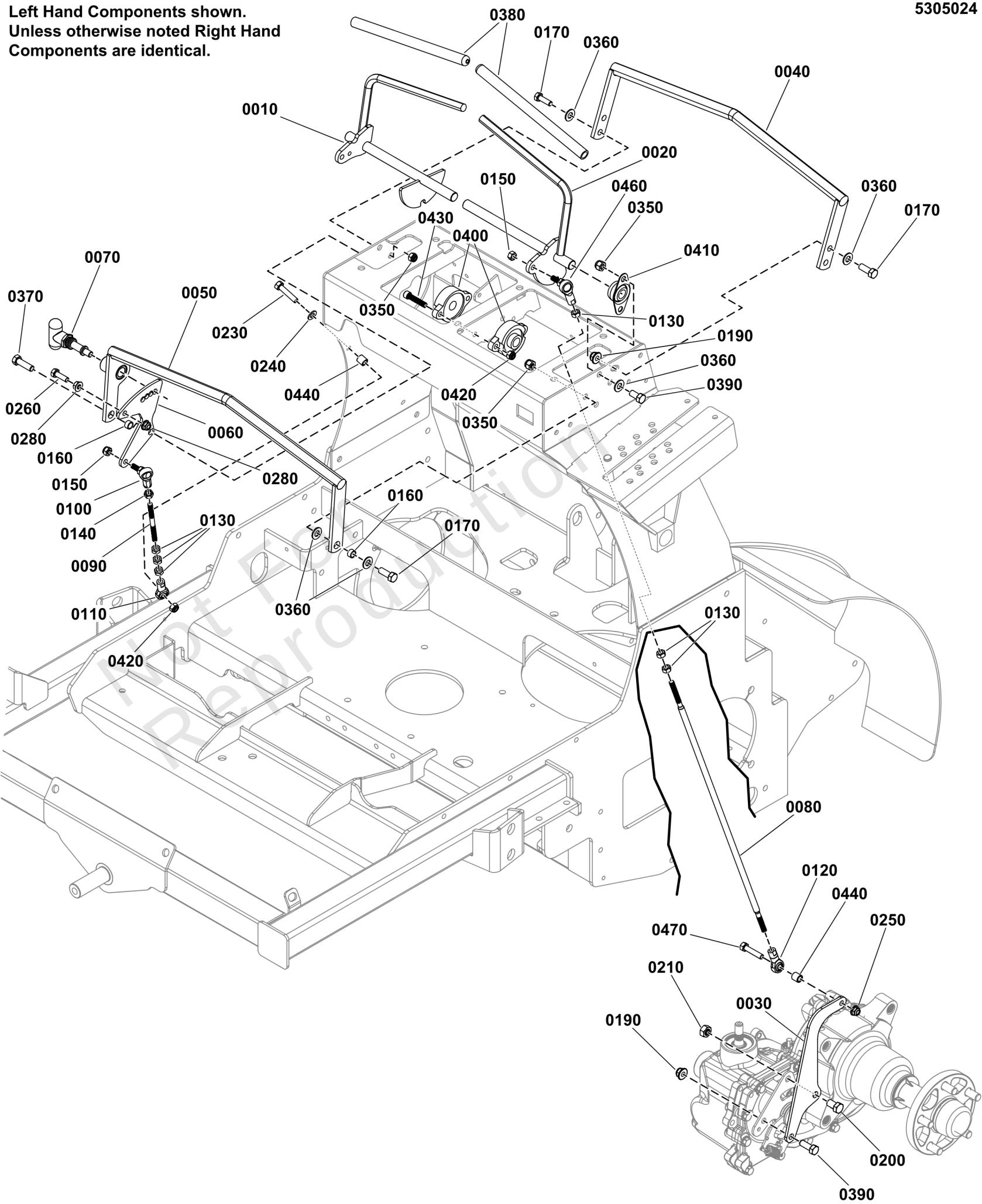
Motion Control Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

5305024

Left Hand Components shown.
Unless otherwise noted Right Hand
Components are identical.



Motion Control Group

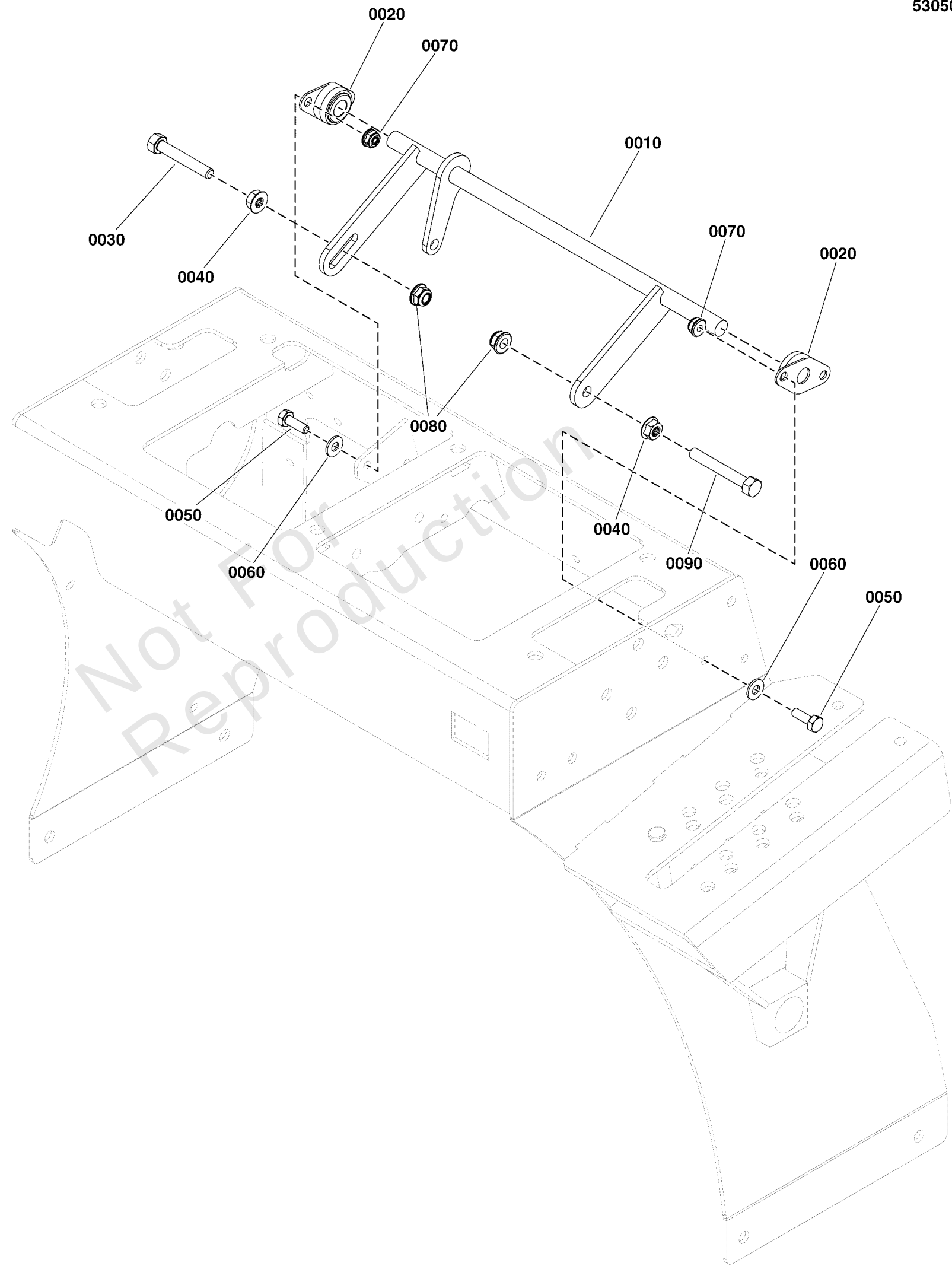
REF NO	PART NO	QTY	DESCRIPTION
0010	84008277	1	CONTROL, Handle
0020	5416816AAFS	1	CONTROL, HANDLE
0030	84012618	2	PLATE, Control Mount
0040	5413594AAFS	1	HANDLE, REAR
0050	5413706AAFS	1	HANDLE, FRONT
0060	5415998AAFS	1	PLATE
0070	5104609FS	1	PIN
0080	5105313FS	2	ROD, Control
0090	5104608FS	1	ROD
0100	5104495YP	1	JOINT-BALL
0110	5104493YP	1	BALL JOINT 5/16-24 RH
0120	5104494YP	2	BALL JOINT 5/16-24 LH
0130	5025033FS	9	NUT
0140	5023212SM	1	NUT, 5/16-24 HEX, LH
0150	5025045SM	3	NUT, 5/16-24 HEX NYLO
0160	5041930SM	2	SPACER, .38 X .50 X .
0170	5025013X8SM	5	BOLT, 3/8-16 X 1" GD5
0190	5025394SM	4	NUT, 3/8-16 HEX NYLOCK
0200	5025015X6SM	2	BOLT, 7/16-14
0210	5025044SM	2	NUT, 7/16-14 HEX
0230	5025055X12SM	2	BOLT, 5/16-18 X 1-1/2
0240	703350	1	WASHER
0250	703115	2	NUT
0260	5025011X8FS	1	BOLT
0280	5025127SM	2	NUT, 5/16-18 HEX SERR
0350	5025096SM	8	NUT, 3/8-16 HEX NYLON
0360	5025156FS	12	WASHER
0370	5025013X10SM	1	BOLT, 3/8-16 X 1-1/4"
0380	5101715FS	2	GRIP
0390	5025013X6SM	6	BOLT, 3/8-16 X 3/4" G
0400	5022846SM	2	BEARING, FLANGE, 5/8
0410	5104885FS	2	BEARING
0420	5025057FS	3	NUT
0430	5025618X12FS	2	SCREW
0440	5102148YP	3	SPACER, .33 X .50X.50
0460	5104833FS	2	JOINT, Ball
0470	5025011X14SM	1	BOLT, 5/16-18 X 1-3/4

Neutral Lockout Group S/N: 4000089208 and Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

5305043



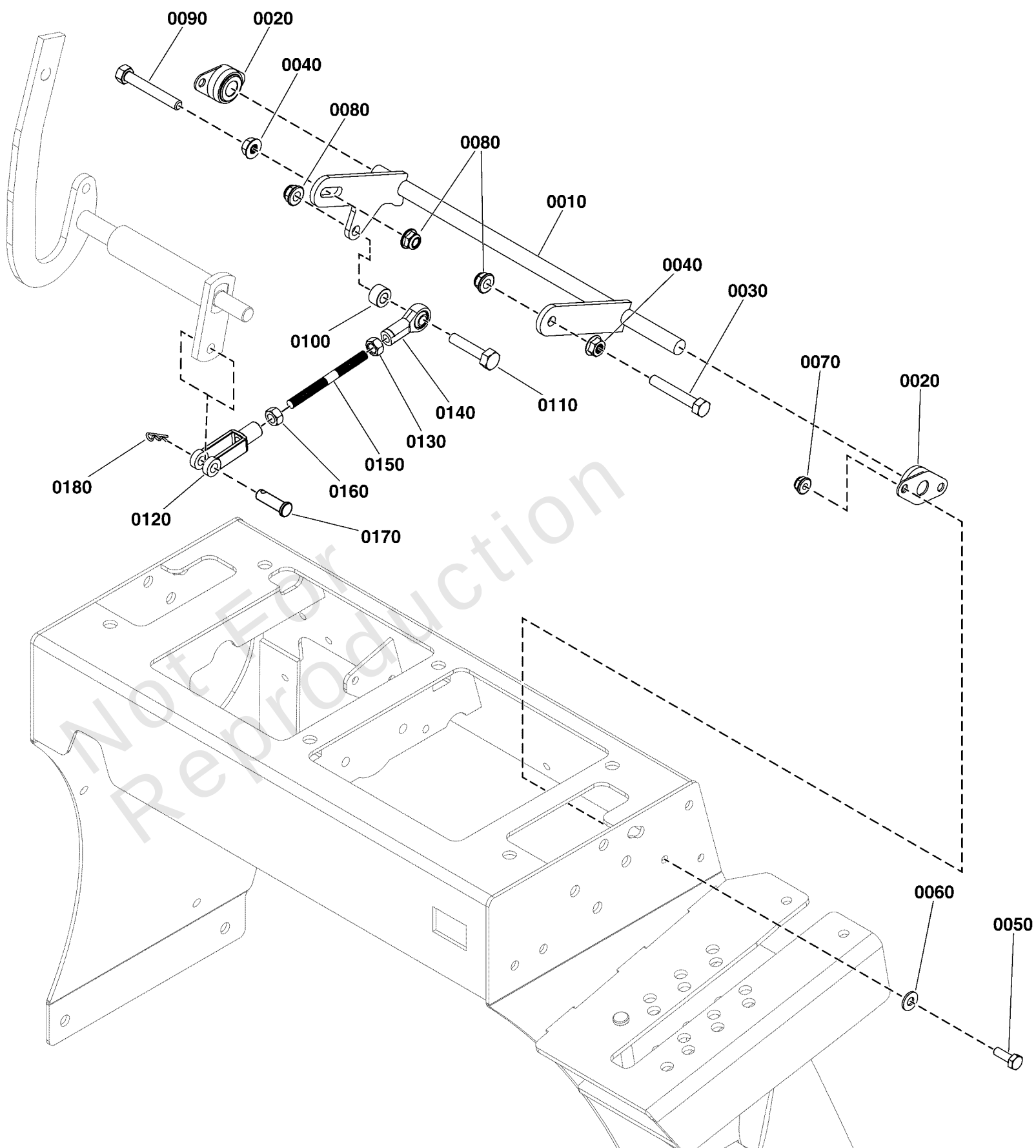
Neutral Lockout Group S/N: 4000089208 and Below

REF NO	PART NO	QTY	DESCRIPTION
0010	5416486A	1	WELD, NEUTRAL LOCK SHAFT - BLK
0020	5101123	2	BEARING, 1/2 FLANGED, PLASTIC BALL
0030	5025011X16	1	BOLT, 5/16-18 X 2" GD5 YZ
0040	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
0050	5025010X6	4	BOLT, 1/4"-20 X 3/4" GD5 YZ
0060	5025154	4	WASHER, 1/4 SAE
0070	5025391	4	NUT, 1/4-20 Hex Nylock Flange
0080	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0090	5025011X18	1	BOLT, 5/16-18 X 2-1/4" GD5 YZ

Neutral Lockout Group S/N: 4000089209 and Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809



Neutral Lockout Group S/N: 4000089209 and Above

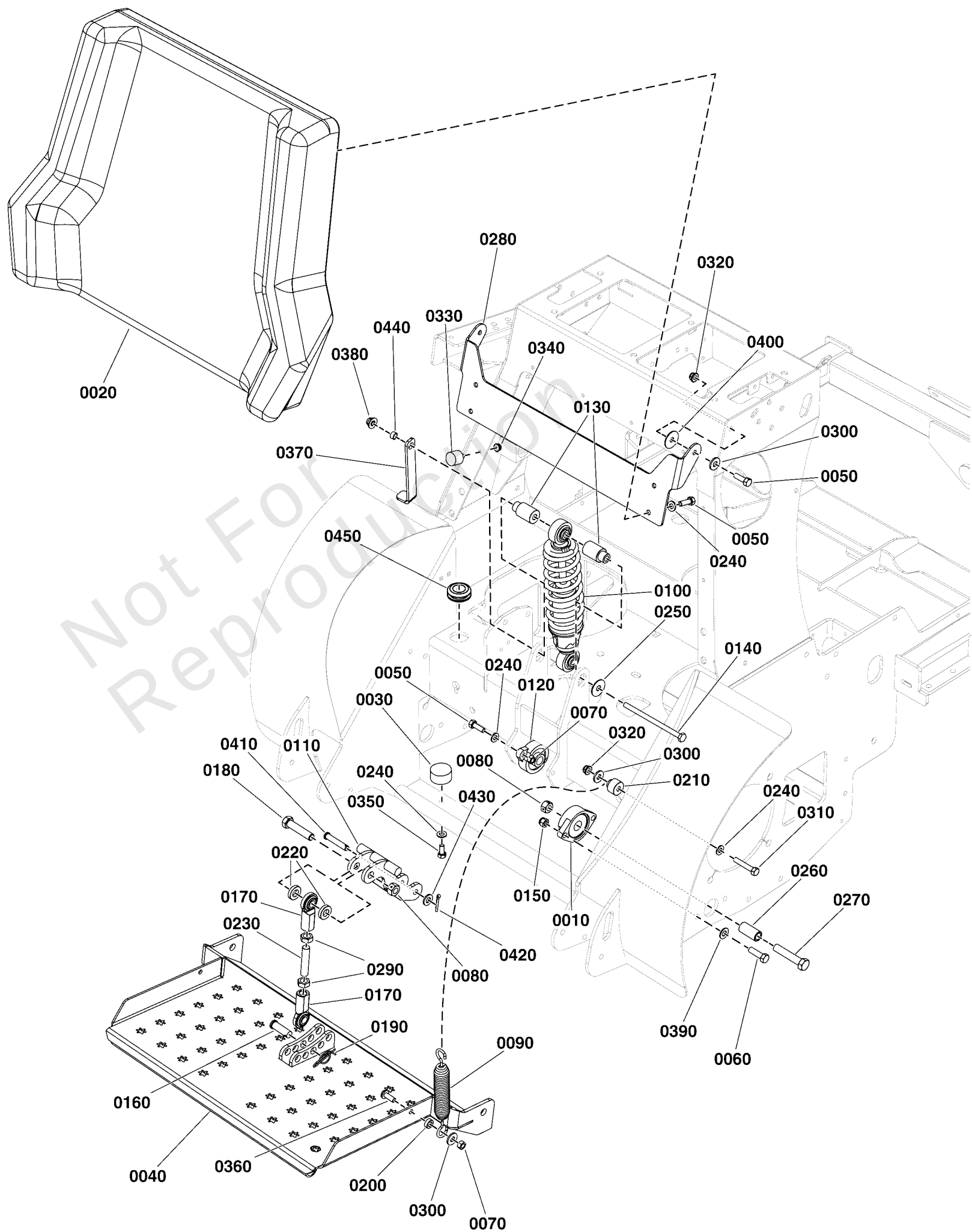
REF NO	PART NO	QTY	DESCRIPTION
0010	5418767A	1	WELD, NEUTRAL LOCK SHAFT, SRS - BLK
0020	5101123	2	BEARING, 1/2 FLANGED, PLASTIC BALL
0030	5025011X16	1	BOLT, 5/16-18 X 2" GD5 YZ
0040	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
0050	5025010X6	4	BOLT, 1/4"-20 X 3/4" GD5 YZ
0060	5025154	4	WASHER, 1/4 SAE
0070	5025391	4	NUT, 1/4-20 Hex Nylock Flange
0080	5025392	3	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0090	5025011X18	1	BOLT, 5/16-18 X 2-1/4" GD5 YZ
0100	5103767	1	SPACER, .33 X .63 X .36, PM, CZ
0110	5025055X12	1	BOLT- 5/16-18 X 1-1/2 GD5 TFL
0120	5023323	1	CLEVIS, 5/16-24, STEEL, CLEAR ZINC
0130	5023212	1	NUT, 5/16-24 HEX, LH
0140	5104494	1	BALL JOINT 5/16-24 LH FEMALE BRONZE RACE
0150	5104695	1	ROD, 5/16-24 X 3.25, CZ
0160	5025033	1	NUT, Hex, 5/16-24
0170	5025213X7	1	PIN, CLEVIS, 5/16 X 1, PLATED
0180	5025211	1	PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ

Operator Compartment Group - S/N: 2017890935 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

5305039A



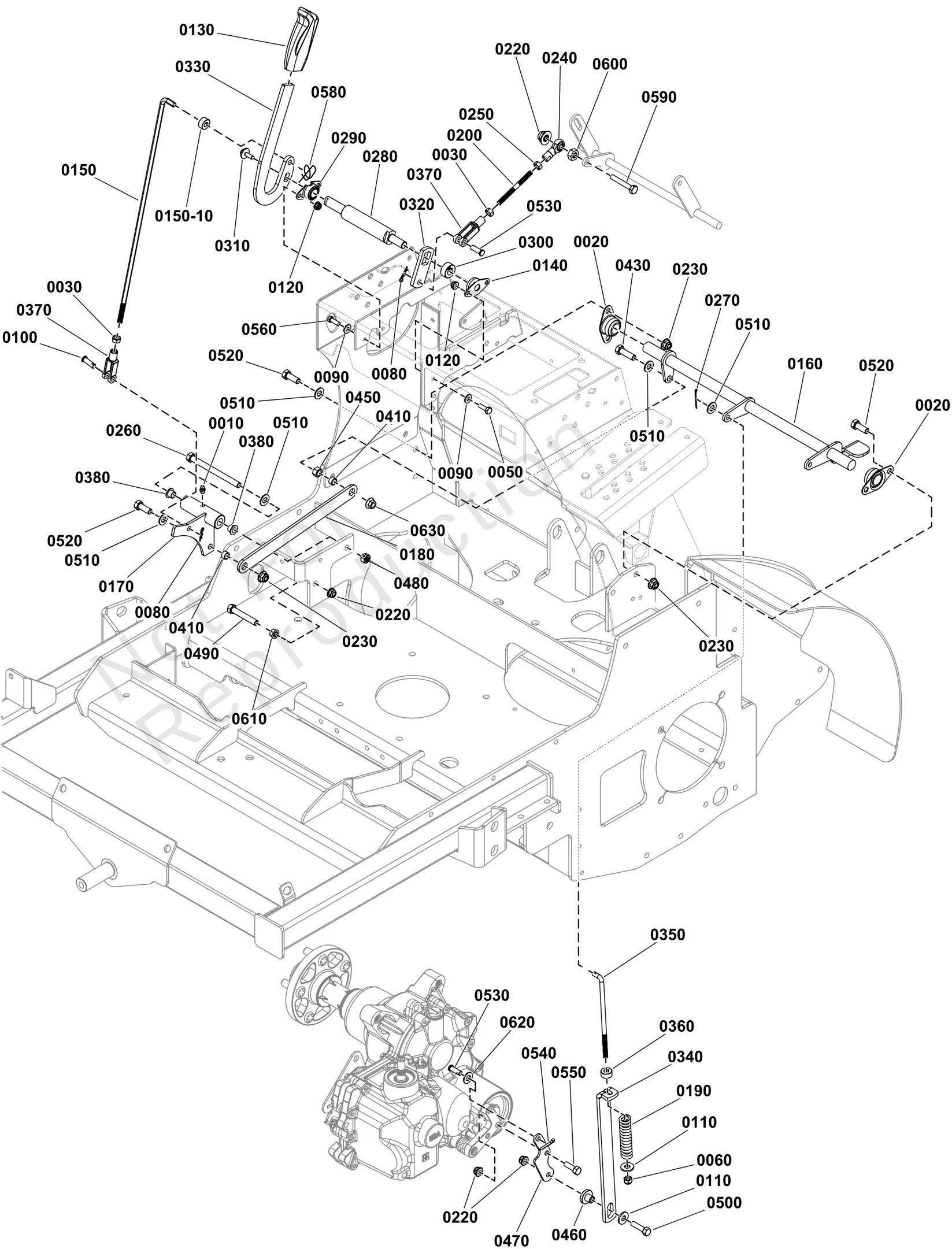
Operator Compartment Group - S/N: 2017890935 & Above

REF NO	PART NO	QTY	DESCRIPTION
0010	5021499SM	2	BEARING, FLANGE
0020	84008803	1	PAD, Knee
0030	5104593FS	2	BUMPER
0040	5415115AFS	1	PLATFORM
0050	5025011X8FS	10	BOLT
0060	5025013X10SM	4	BOLT, 3/8-16 X 1-1/4"
0070	703164	5	NUT
0080	5025332SM	3	NUT - SIDE LOCK
0090	5022847SM	1	SPRING, EXTENSION, SW
0100	5104640FS	1	ABSORBER, SHOCK
0110	84008611	1	LINKAGE
0120	5022846SM	2	BEARING, FLANGE, 5/8
0130	5104620FS	2	SPACER
0140	5025013X44SM	1	BOLT, 3/8-16 X 5-1/2"
0150	5025096SM	4	NUT, 3/8-16 HEX NYLON
0160	5025328X12SM	1	PIN,CLEVIS, 1/2 X 1 1
0170	1702779SM	2	JOINT-BALL .500-20 TH
0180	5025017X16YP	1	BOLT, 1/2-13 X 2 GD5
0190	5025540FS	1	PIN, Cotter
0200	5104654FS	1	SPACER
0210	5104655FS	1	SPACER
0220	5100520SM	2	SPACER .515X1.00X.218
0230	5104663FS	1	ROD
0240	703350	11	WASHER
0250	5025165SM	1	WASHER, 3/8" FENDER
0260	5104658FS	2	SPACER
0270	5025017X18SM	2	BOLT, 1/2-13
0280	5415781BFS	1	PLATE
0290	5025089SM	2	NUT, 1/2-20 HEX JAM
0300	5025337FS	4	WASHER
0310	5025011X14SM	1	BOLT, 5/16-18 X 1-3/4
0320	703115	3	NUT
0330	5022673SM	2	BUMPER, RUBBER 1/4-20
0340	5025391FS	2	NUT
0350	5025011X6SM	2	BOLT, 5/16-18 X 3/4"
0360	1960086SM	1	SCREW, TRUSS HD TORX
0370	5107798FS	1	PLATE
0380	5025394SM	1	NUT, 3/8-16 HEX NYLOCK
0390	5025156FS	4	WASHER
0400	5025164SM	2	WASHER, 5/16" FENDER
0410	84007981	1	PIN, Clevis
0420	5025203X6SM	1	PIN - COTTER
0430	5025293SM	1	WASHER, 3/8"
0440	5041930SM	1	SPACER, .38 X .50 X .
0450	5103944YP	1	GROMMET, 7/8"ID

Parking Brake Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809



Parking Brake Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5020095	1	GREASE FITTING, 1/4-28 Straight
0020	5021098	2	BEARING, BRONZE FLANGE, 3/4"
0030	5025033	2	NUT, Hex, 5/16-24
0050	5025010X6	2	BOLT, 1/4"-20 X 3/4" GD5 YZ
0060	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
0080	5025211	1	PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ
0090	5025154	4	WASHER, 1/4 SAE
0100	5025213X8	2	PIN, CLEVIS, 5/16 X 1, PLATED
0110	5025337	4	WASHER, 5/16" USS
0120	5025391	4	NUT, 1/4-20 Hex Nylock Flange
0130	5100171	1	GRIP, BLACK FLEXIBLE
0140	5101123	1	BEARING, 1/2 FLANGED, PLASTIC BALL
0150	5105314	1	ROD, BRAKE, Z3 -(S/N 2018025018 & Below) (Refer to Note: *)
0150	5105701	1	ROD, BRAKE, Z3 -(S/N 2018025019 & Above)
0150-10	5020047	1	COLLAR, 5/16" Set -(S/N 2018025018 & Below Only)
0160	5415110A	1	WELD, LOWER BRAKE SHAFT, SRSZ3 - BLK
0170	5415453A	1	WELD, BRAKE PIVOT, SRSZ3 - BLK
0180	5415129A	1	LINK, BRAKE, SRSZ3 - BLK
0190	5100385	2	SPRING, COMP. 1/2 ID X .140 WIRE X 3.25
0200	5104695	1	ROD, 5/16-24 X 3.25, CZ
0220	5025392	5	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0230	5025394	5	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0240	5104494	1	BALL JOINT 5/16-24 LH FEMALE BRONZE RACE
0250	5023212	1	NUT, 5/16-24 HEX, LH
0260	5025013X36	1	BOLT, 3/8-16 X 4-1/2" GD5 CZ
0270	80002736	2	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
0280	5104768	1	SHAFT, UPPER BRAKE ROD, SRSZ
0290	5104270	1	BEARING, 5/8" FLANGED, PLASTIC BALL
0300	5010580	1	COLLAR, 1/2 SET (1/2 SPLIT COLLAR IN MODEL)
0310	2860664	1	SCREW-HEX SEMS WSHR 1/4-20 X.88 DOG PT
0320	5106314	1	PLATE, BRAKE TAB, STAND-ON
0330	5416876A	1	PLATE, BRAKE LEVER, SRSZ - BLK
0340	84008450	2	MOUNT
0350	5105574	2	ROD, LOWER BRAKE CONTROL, CZ
0360	5020047	2	COLLAR, 5/16" Set
0370	5023323	2	CLEVIS, 5/16-24, STEEL, CLEAR ZINC
0380	5102773	2	BUSHING, .38ID X .47 OD X .38L, FL
0410	5041930	2	SPACER, .38 X .50 X .27, CZ
0430	5025013X10	1	BOLT, 3/8-16 X 1-1/4" GD5 CZ
0450	5025034	1	NUT, 3/8-16 HEX, YZ
0460	5105603	2	SPACER, STEP, .328 X 1.00 X .625, CZ
0470	5413575A	2	PLATE, BRAKE ARM, IS2100 - BLK
0480	5025100	1	NUT, Hex, Side Lock, 3/8-16
0490	5025013X18	1	BOLT, 3/8-16 X 2-1/4" GD5 CZ
0500	5025011X10	2	BOLT, 5/16-18 X 1-1/4" GD5 YZ

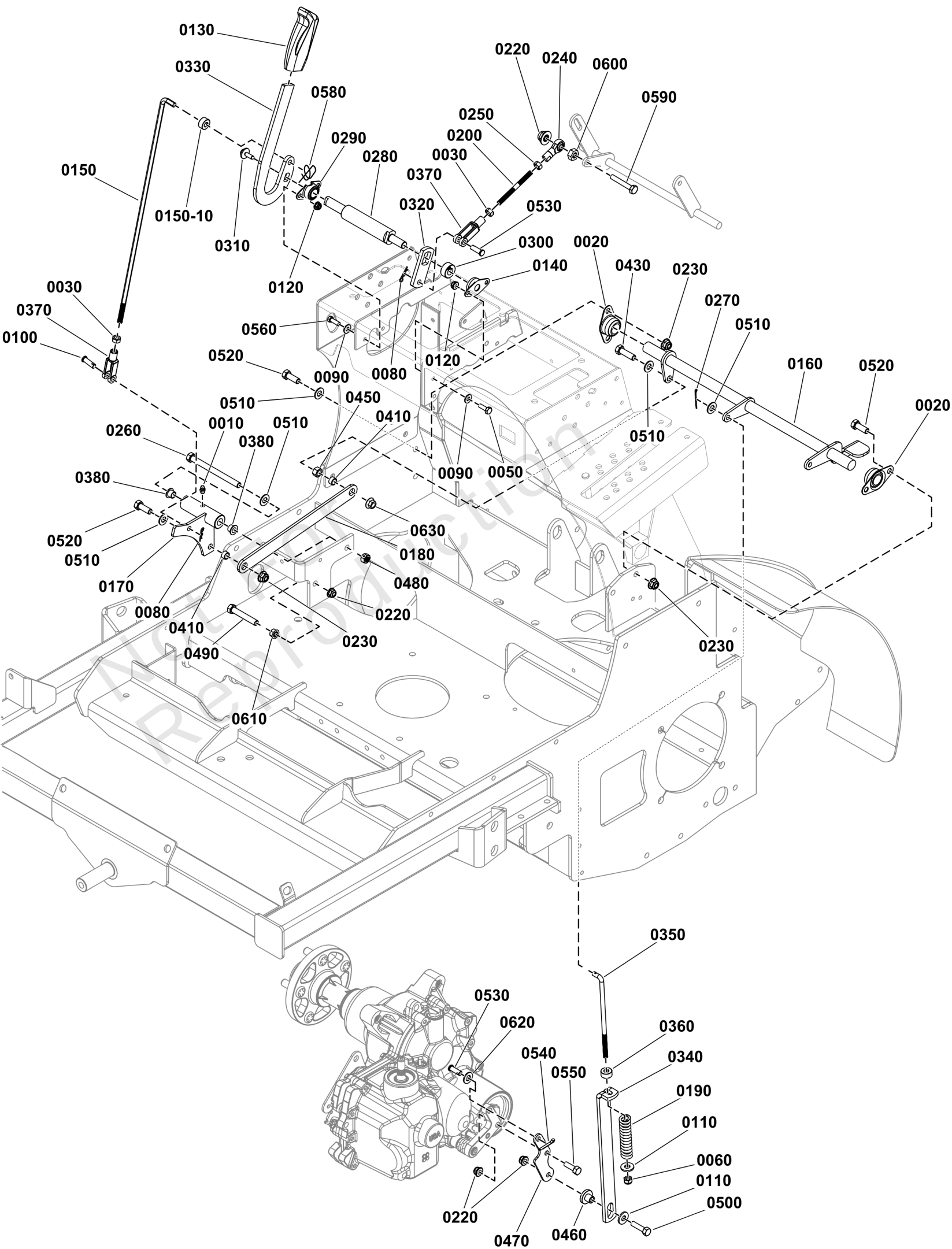
Footnotes:

Note: **Older models may feature different hardware that is oriented differently, please update to the current hardware and orientation.
Note: * If replacing this rod, also order item #0580 and re-assemble to diagram.

Parking Brake Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809



Parking Brake Group

REF NO	PART NO	QTY	DESCRIPTION
0510	5025156	5	WASHER, 3/8 SAE
0520	5025013X8	5	BOLT, 3/8-16 X 1" GD5 CZ
0530	5025213X7	3	PIN, CLEVIS, 5/16 X 1, PLATED
0540	5025203X6	2	* PIN, COTTER, 1/8" X 3/4
0550	5025011X8	2	BOLT, 5/16-18 X 1" GRD5 YZ
0560	-----	2	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
0580	5025639	1	RUE - 10 RETAINING PIN, .047"X5/16 SHAFT
0590	5025055X12	1	BOLT- 5/16-18 X 1-1/2 GD5 TFL -(Refer to Note: **)
0600	5025032	1	NUT, 5/16-18 HEX -(Refer to Note: **)
0610	5025128	1	NUT, 3/8-16 Hex Large Serrated Flange
0620	5025155	4	WASHER, 5/16" SAE
0630	1960339SM	1	NUT, Hex Flange, MAC Lock Large, 3/8-16

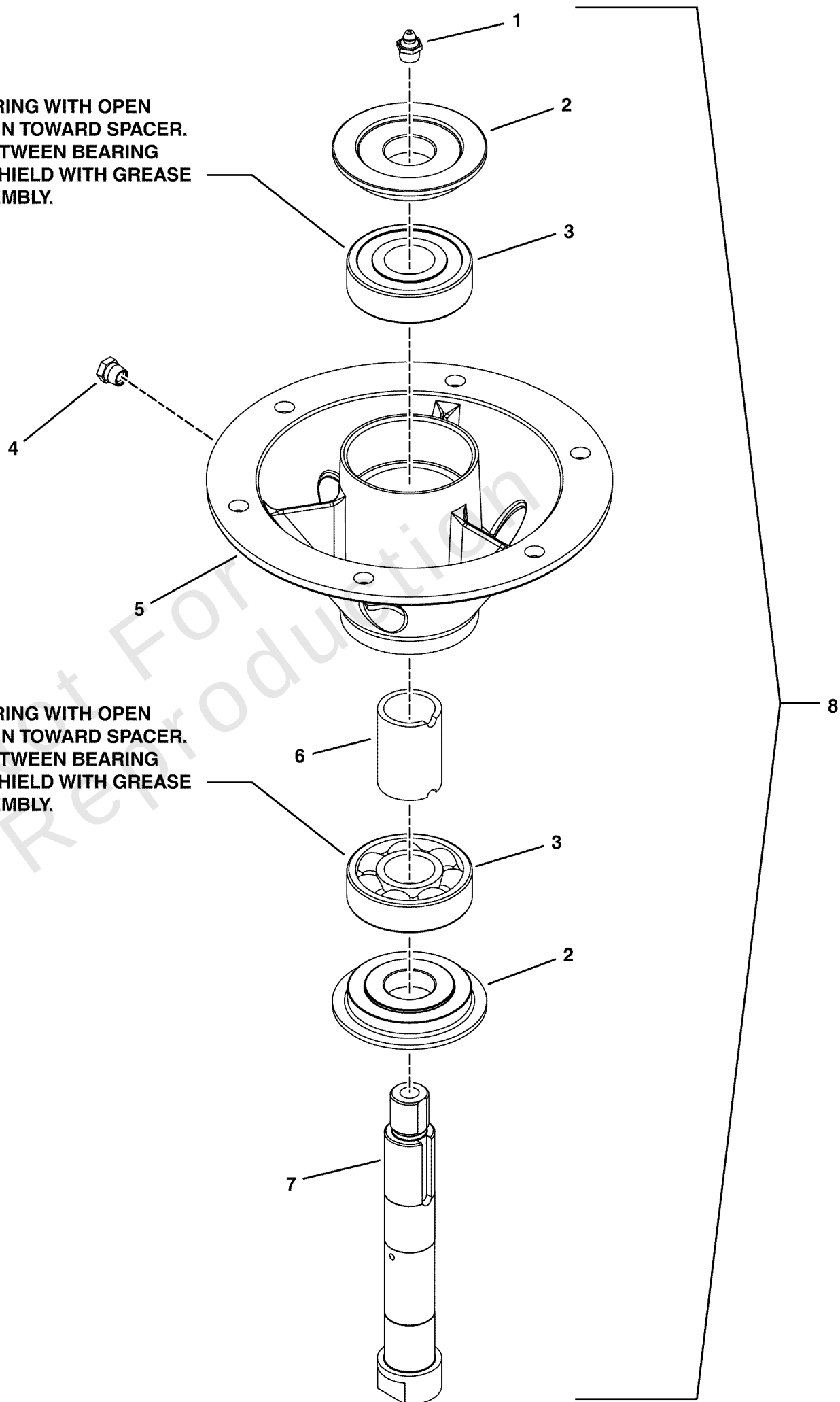
Footnotes:

Note: **Older models may feature different hardware that is oriented differently, please update to the current hardware and orientation.

Note: * If replacing this rod, also order item #0580 and re-assemble to diagram.

5100993

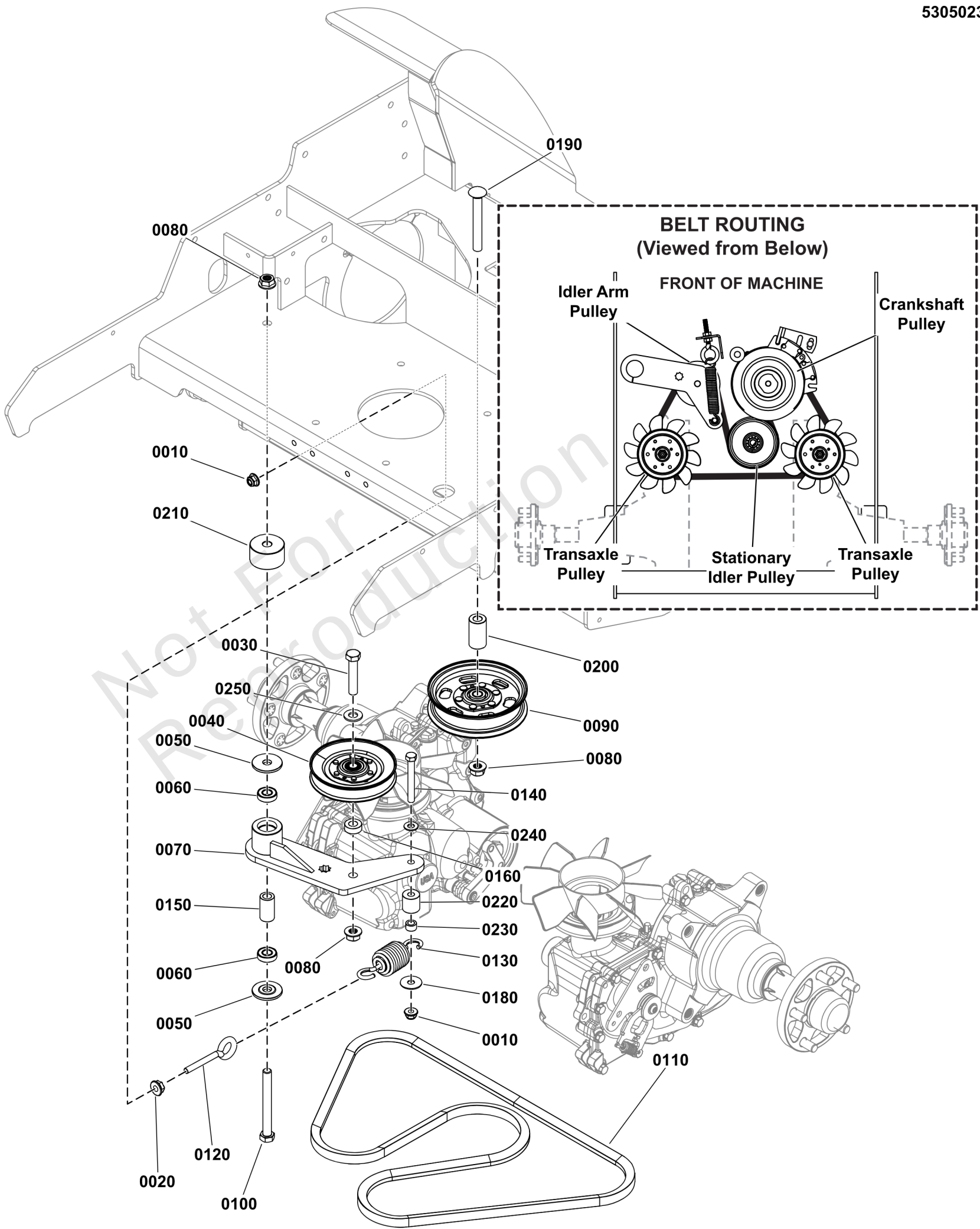
INSTALL BEARING WITH OPEN
SIDE FACING IN TOWARD SPACER.
FILL AREA BETWEEN BEARING
AND TRASH SHIELD WITH GREASE
DURING ASSEMBLY.



NOTE: FILL CAVITY WITH NLGI, GRADE 2, EP-2 GREASE
(SUPERPLEX EP-2, SHELL ALBIDA LCS, BP ENERGREASE LC)

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

REF NO	PART NO	QTY	DESCRIPTION
0010	5025394SM	2	NUT, 3/8-16 HEX NYLOCK
0020	5025128SM	1	NUT, 3/8-16 HEX SERRA
0030	5025017X20SM	1	BOLT, 1/2-13 X 2-1/2
0040	5105542FS	1	PULLEY, IDLER
0050	5103262YP	2	SPACER, IDLER ARM
0060	7078243YP	2	BEARING, BALL, AXLE
0070	5414039AAFS	1	ARM, IDLER
0080	770225	3	NUT
0090	5101794YP	1	PULLEY, IDLER, 5" OD -(S/N: 4002376506 and below)
0090	84012672	1	PULLEY w/Shield -(S/N: 4002376507 and above) (Refer to Note: *)
0100	5025017X36SM	1	BOLT, 1/2-13 X 4-1/2"
0110	84012993	1	BELT, Drive
0120	5025429SM	1	EYEBOLT - 3/8-16
0130	5104676FS	1	SPRING, EXTENSION
0140	84007037	1	BOLT
0150	5103812YP	1	SPACER, .52 X .84 X 1
0160	5044609SM	1	SPACER, .52 X 1.00 X
0180	5025165SM	1	WASHER, 3/8" FENDER
0190	5025324X32FS	1	BOLT
0200	5101413FS	1	SPACER
0210	5105466FS	1	SPACER
0220	5100896SM	1	SPACER
0230	5105297YP	1	SPACER
0240	5025156FS	1	WASHER
0250	5025158SM	1	WASHER, 1/2" SAE

Footnotes:

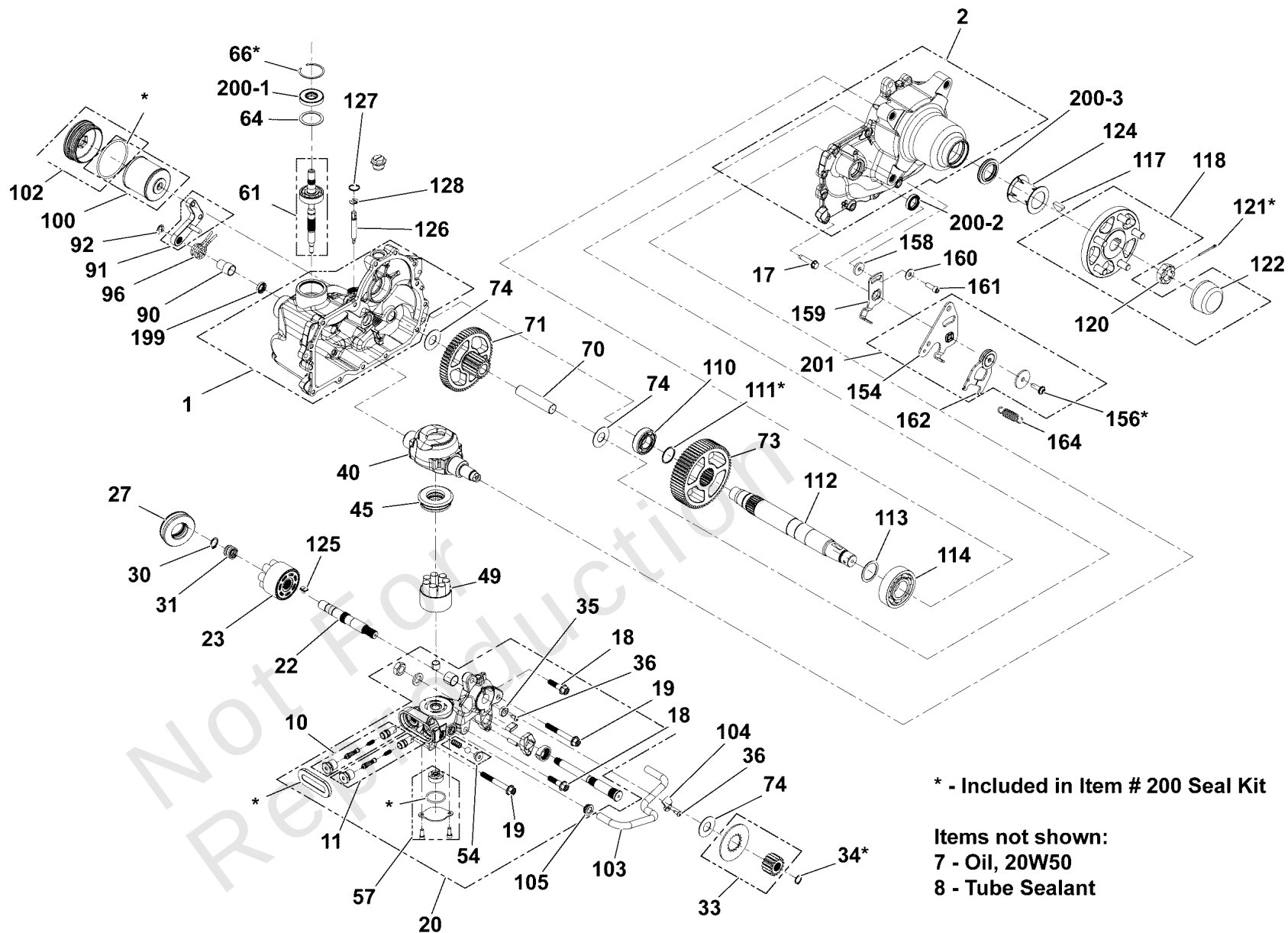
Note: *This sellable includes an optional pulley shield. It is not required in this application but can be used if desired.

HYDRO-GEAR MODEL 1710-1065L (P/N: 5105286)

HYDRO-GEAR MODEL 1710-1076L (P/N: 5107881)

HYDRO-GEAR MODEL 1710-1065R (P/N: 5105285)

HYDRO-GEAR MODEL 1710-1076R (P/N: 5107880)



Transaxle Service Parts Group - 5105286 / 5105285

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	KIT, MAIN HOUSING -(Refer to Note: *)
2	-----	1	KIT, SIDE HOUSING -(Refer to Note: *)
7	-----	1	OIL -(Refer to Note: *)
8	5022905X1	1	SEALANT
10	-----	1	KIT, SHOCK VALVE -(Refer to Note: *)
11	-----	1	KIT, SHOCK VALVE -(Refer to Note: *)
17	-----	14	SCREW, HOUSING -(Refer to Note: *)
18	-----	2	SCREW, HEX FLANGE 3/8-16 X 1.5 -(Refer to Note: *)
19	-----	2	SCREW, HEX FLANGE 3/8-16 X 3.0 -(Refer to Note: *)
20	-----	2	KIT, CENTER SECTION -(Refer to Note: *)
22	-----	1	SHAFT, MOTOR -(Refer to Note: *)
23	-----	1	KIT, CYLINDER BLOCK (16cc) -(Refer to Note: *)
27	-----	1	BEARING, THRUST, MOTOR -(Refer to Note: *)
30	-----	1	RING, RETAINING -(Refer to Note: *)
31	1715302	1	SPRING-CYLINDER BLOCK 2000025
33	-----	1	KIT, BRAKE ROTOR, GEAR -(Refer to Note: *)
34	1706130	1	RING-SNAP (44145)
35	-----	1	MAGNET -(Refer to Note: *)
36	-----	2	BOLT, SELF-TAPPING -(Refer to Note: *)
40	-----	1	SWASHPLATE, MACHINED -(Refer to Note: *)
45	-----	1	BEARING, THRUST, PUMP -(Refer to Note: *)
49	-----	1	KIT, CYLINDER BLOCK (12cc) -(Refer to Note: *)
54	-----	1	KIT, CHARGE RELIEF -(Refer to Note: *)
57	-----	1	KIT, CHARGE PUMP -(Refer to Note: *)
61	5104385X3	1	KIT, INPUT SHAFT (BEARING & SHAFT ONLY) (SV)
64	-----	1	SPACER, INPUT -(Refer to Note: *)
66	-----	1	RING, RET, INTERNAL, INPUT -(Refer to Note: *)
70	-----	1	JACKSHAFT -(Refer to Note: *)
71	-----	1	KIT, GEARS -(Refer to Note: *)
73	-----	1	GEAR, 62T -(Refer to Note: *)

Footnotes:

Note: * See your authorized Hydro-Gear dealer for replacement parts.

Transaxle Service Parts Group - 5105286 / 5105285

Note: Unless noted otherwise, use the standard torque specifications

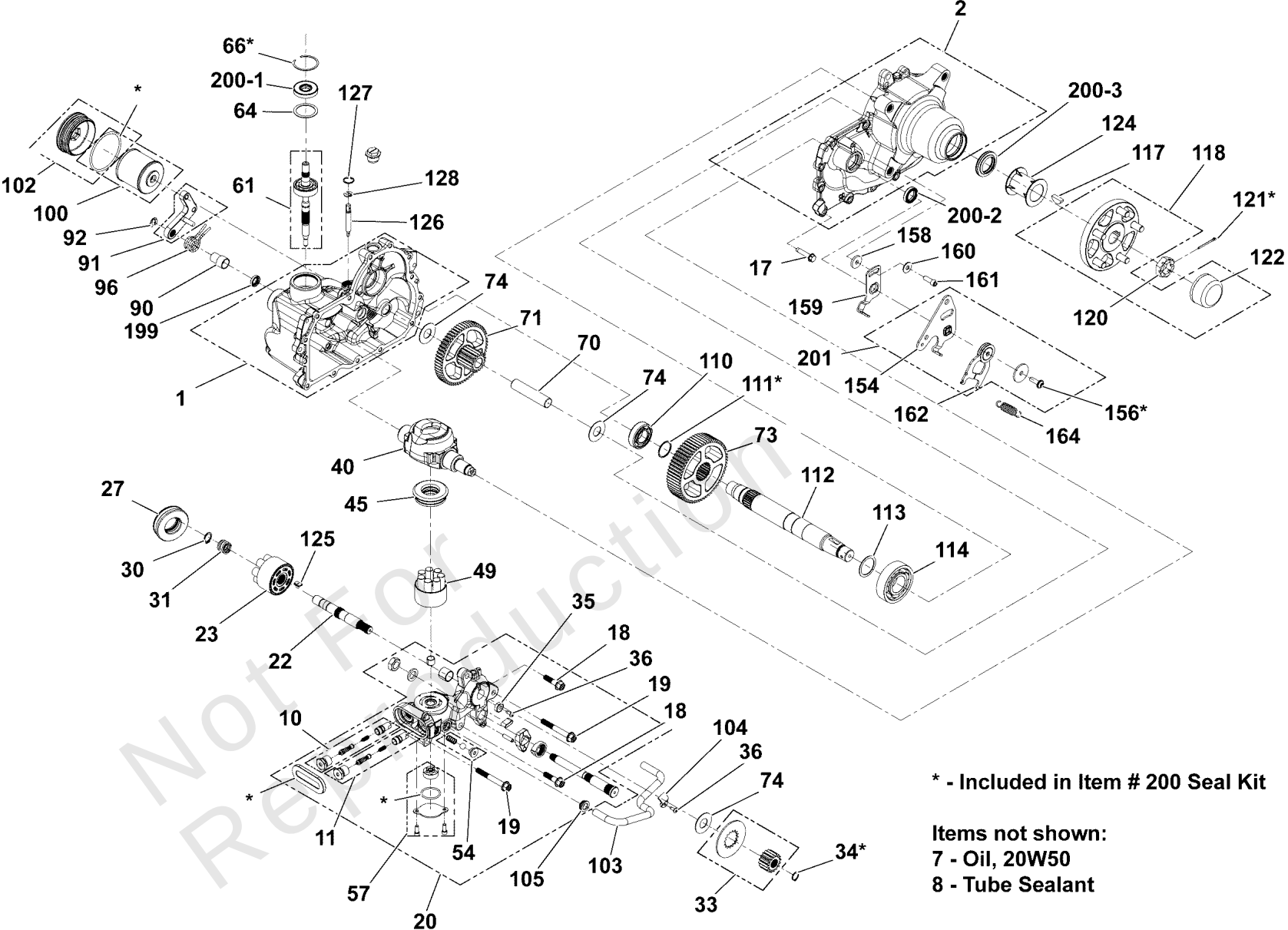
Mfg. No: 5901809

HYDRO-GEAR MODEL 1710-1065L (P/N: 5105286)

HYDRO-GEAR MODEL 1710-1076L (P/N: 5107881)

HYDRO-GEAR MODEL 1710-1065R (P/N: 5105285)

HYDRO-GEAR MODEL 1710-1076R (P/N: 5107880)



* - Included in Item # 200 Seal Kit

Items not shown:
7 - Oil, 20W50
8 - Tube Sealant

Transaxle Service Parts Group - 5105286 / 5105285

REF NO	PART NO	QTY	DESCRIPTION
74	-----	3	WASHER, JACKSHAFT -(Refer to Note: *)
90	-----	1	SPACER, SPRING -(Refer to Note: *)
91	-----	1	KIT, BRAKE, LH -(Refer to Note: *)
92	5104055YP	1	E-CLIP
96	-----	1	SPRING, BRAKE RETURN -(Refer to Note: *)
100	5104385X1	1	KIT, FILTER (SV)
102	-----	1	KIT, FILTER PLUG -(Refer to Note: *)
103	-----	1	TUBE, FILTER, LH -(Refer to Note: *)
104	-----	1	CLAMP, TUBE, FILTER -(Refer to Note: *)
105	-----	1	GROMMET -(Refer to Note: *)
110	-----	1	BEARING, BALL, AXLE INBOARD -(Refer to Note: *)
111	-----	1	RING, RETAINING, .125, EXTERNAL, SPRING -(Refer to Note: *)
112	-----	1	SHAFT, AXLE -(Refer to Note: *)
113	-----	1	WASHER, AXLE, SHAFT BEARING -(Refer to Note: *)
114	-----	1	BEARING, BALL, OUTBOARD -(Refer to Note: *)
117	-----	1	KEY, SHAFT, AXLE -(Refer to Note: *)
118	5104385X7	1	KIT, HUB 5 BOLT (SV)
120	-----	1	NUT, HEX 1-20 SLOTTED -(Refer to Note: *)
121	-----	1	PIN, COTTER, 9/64 X 2 EXTENDED PRONG -(Refer to Note: *)
122	5101987X5	1	AXLE CAP, ZT5400
124	-----	1	TUBE, AXLE 1.40 X2.22 -(Refer to Note: *)
125	-----	1	PLATE, BYPASS -(Refer to Note: *)
126	-----	1	BYPASS ROD -(Refer to Note: *)
127	-----	1	BYPASS RETAINING RING 2 -(Refer to Note: *)
128	-----	1	BYPASS RETAINING RING 1 -(Refer to Note: *)
154	-----	1	ARM, CONTROL, LH -(Refer to Note: *)
156	-----	1	TWHCS, 5/16-24 X 1.00 (PATCH) -(Refer to Note: *)
158	-----	1	SPACER, .320X1.005X.179 -(Refer to Note: *)
159	-----	1	ARM, NEUTRAL, LH -(Refer to Note: *)
160	-----	1	WASHER, .34X.88X.06 -(Refer to Note: *)

Footnotes:

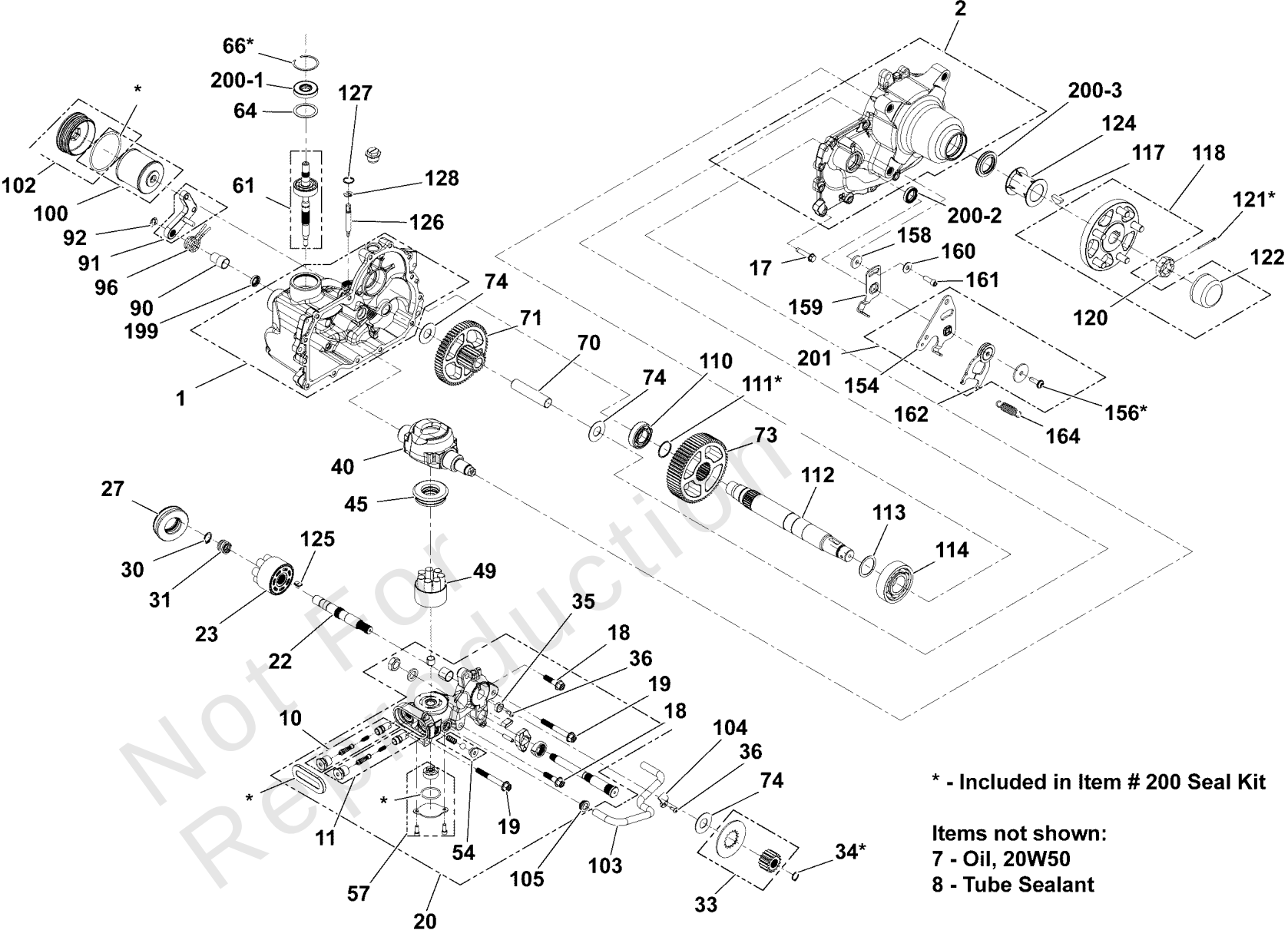
Note: * See your authorized Hydro-Gear dealer for replacement parts.

HYDRO-GEAR MODEL 1710-1065L (P/N: 5105286)

HYDRO-GEAR MODEL 1710-1076L (P/N: 5107881)

HYDRO-GEAR MODEL 1710-1065R (P/N: 5105285)

HYDRO-GEAR MODEL 1710-1076R (P/N: 5107880)



* - Included in Item # 200 Seal Kit

Items not shown:
7 - Oil, 20W50
8 - Tube Sealant

Transaxle Service Parts Group - 5105286 / 5105285

REF NO	PART NO	QTY	DESCRIPTION
161	-----	1	SHCS, 5/16-24 X .875 (PATCH) -(Refer to Note: *)
162	-----	1	ASSEMBLY, RTN -(Refer to Note: *)
164	5105285X1	1	SPRING, EXTENSION RTN-44LBS, H/G 51605
199	5109995	1	BRAKE SHAFT SEAL, 55523, ZT4400 & ZT5400 -(55523)
200	5104385X2	1	KIT, SEAL (SV)
200-1	5104385X4	1	KIT, INPUT SEAL (SV)
200-2	5104385X6	1	KIT, CONTROL ARM SEAL, HG# 55526
200-3	5104385X5	1	KIT, AXLE SEAL (SV)
201	1735490	1	KIT, L.H. Control Arm

Not For
Reproduction

Footnotes:

Note: * See your authorized Hydro-Gear dealer for replacement parts.

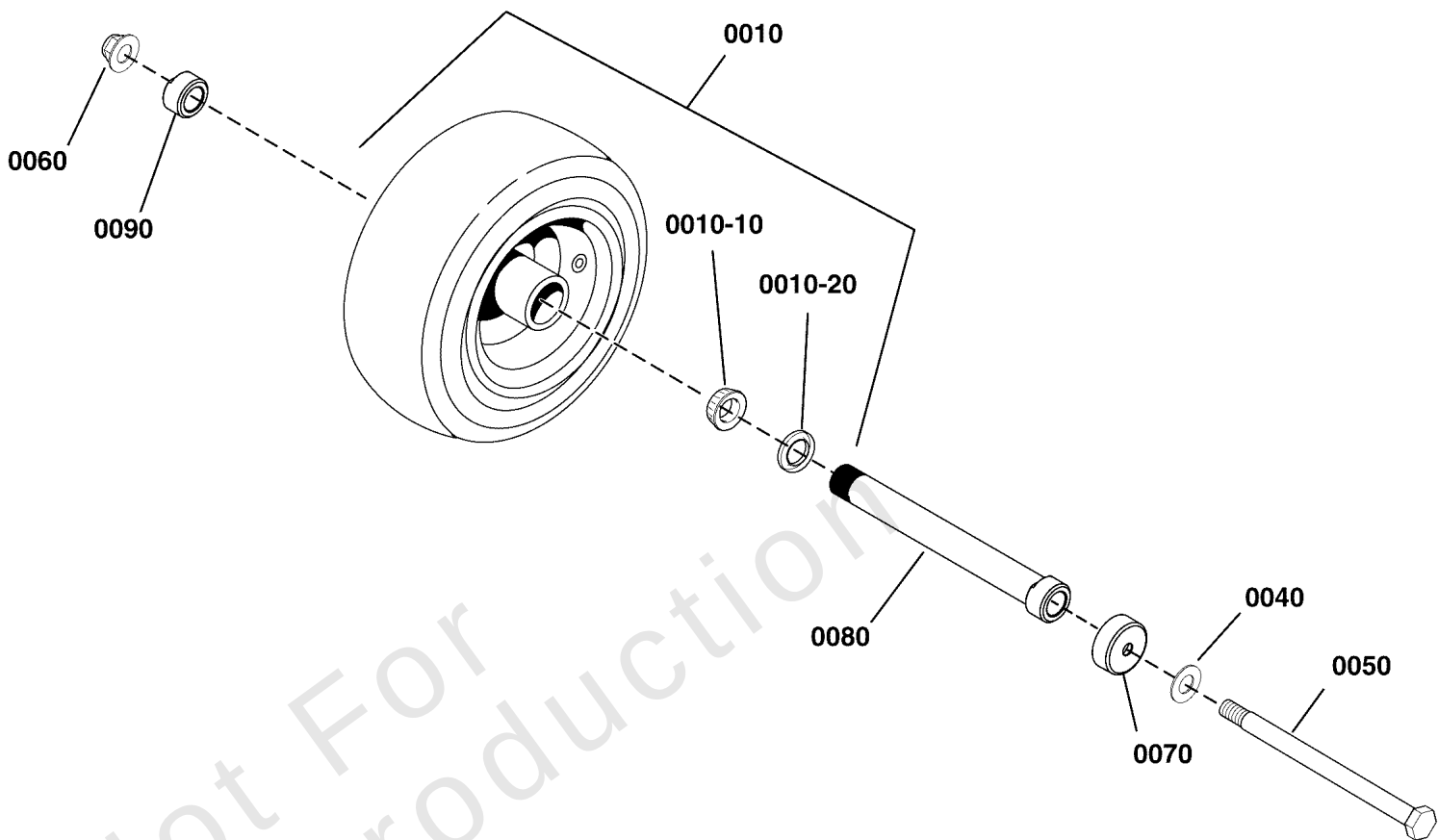
Wheel & Tire Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901809

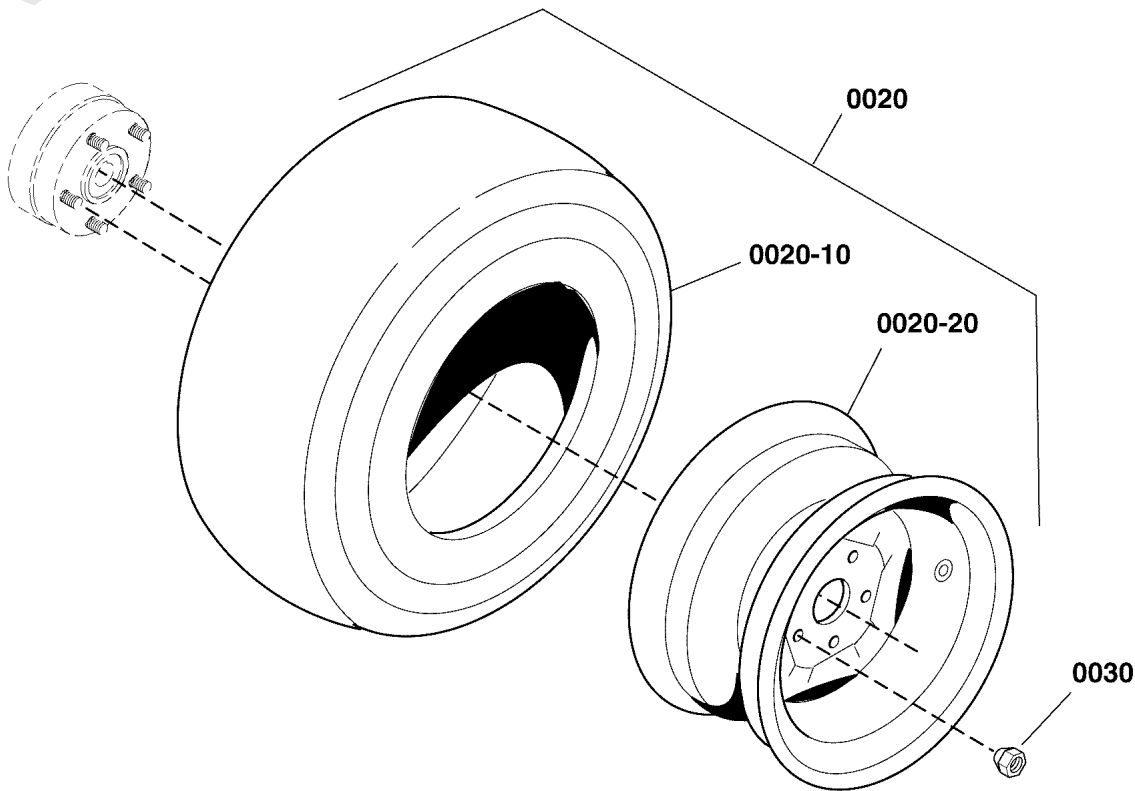
Front Wheels & Tires

5305030



0010-30 - Bearing, Race

Rear Wheels & Tires



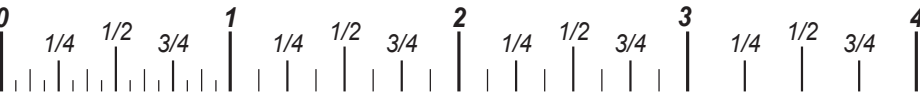
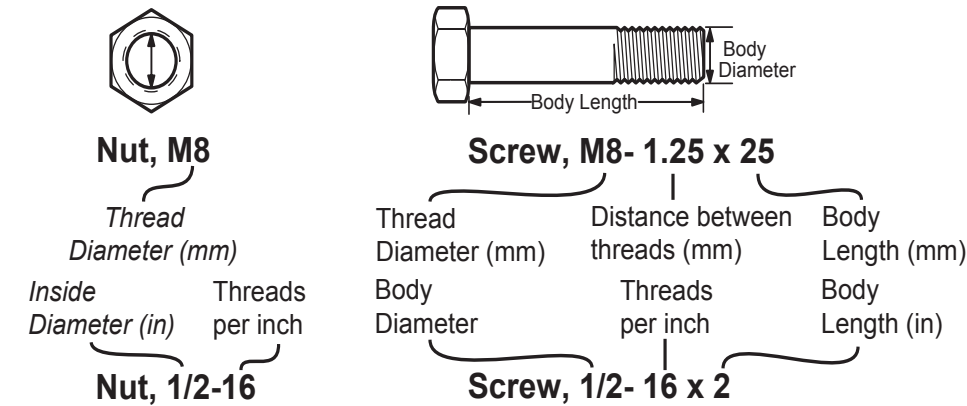
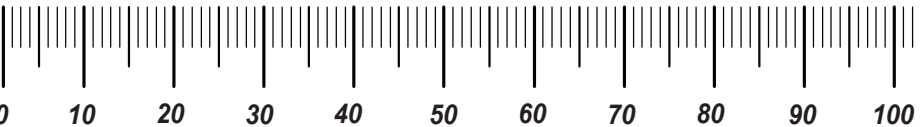
Wheel & Tire Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5023279	2	TIRE ASSM, 13 X 6.5 - 6, FF / TB
0010-10	5022631SX2	4	BEARING, Tapered Roller -(2 per tire)
0010-20	5022631SX3	4	SEAL, GREASE -(2 per tire)
0010-30	5022631SX4	4	BEARING, RACE -(2 per tire)
0020	5106487	2	TIRE-WHEEL ASM, 24X9.5-12, TURF SMART-SHAL -(S/N: 4000771923 and below)
0020	5108115	2	TIRE/WHEEL ASM, 24X9.50-12, TURF MASTER -(S/N: 4000771924 and above)
0020-10	5104412X1	2	TIRE, 24 X 9.50-12 PR TURF SMART (SV) -(S/N: 4000771923 and below)
0020-10	5108115X2	2	TIRE ONLY, 24X9.50-12, TURF MASTER -(S/N: 4000771924 and above)
0020-20	5106487X1	2	WHEEL, 12X7, 5/4.5, 1.62 OFF SET
0030	5020601	10	NUT, 1/2-20, FOR WHEEL BOLT SILVER -(Torque lug nuts to 90 ft. lbs. [122 Nm])
0040	5025158	2	WASHER, 1/2 SAE
0050	5025017X72	2	BOLT, 1/2-13 X 9" GD5 YZ
0060	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
0070	5103594	4	DEBRIS, COVER, CASTER WHEELS
0080	5103649	2	BEARING ADJUSTER, SPACER, 7.062 LG
0090	5103650	2	NUT, BEARING ADJUSTER, AXLE

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).

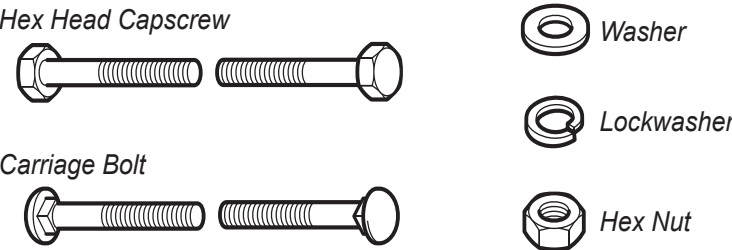
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

