



Parts Manual

Mfg. No: 5901060

IS3000Z Series w/ 61" Mower Deck (S/N:
3631 & above) (IS3000ZXK27/61)

5600006 - 61" 3-Bag System (IS3000ZF & IS3000ZX Series).....

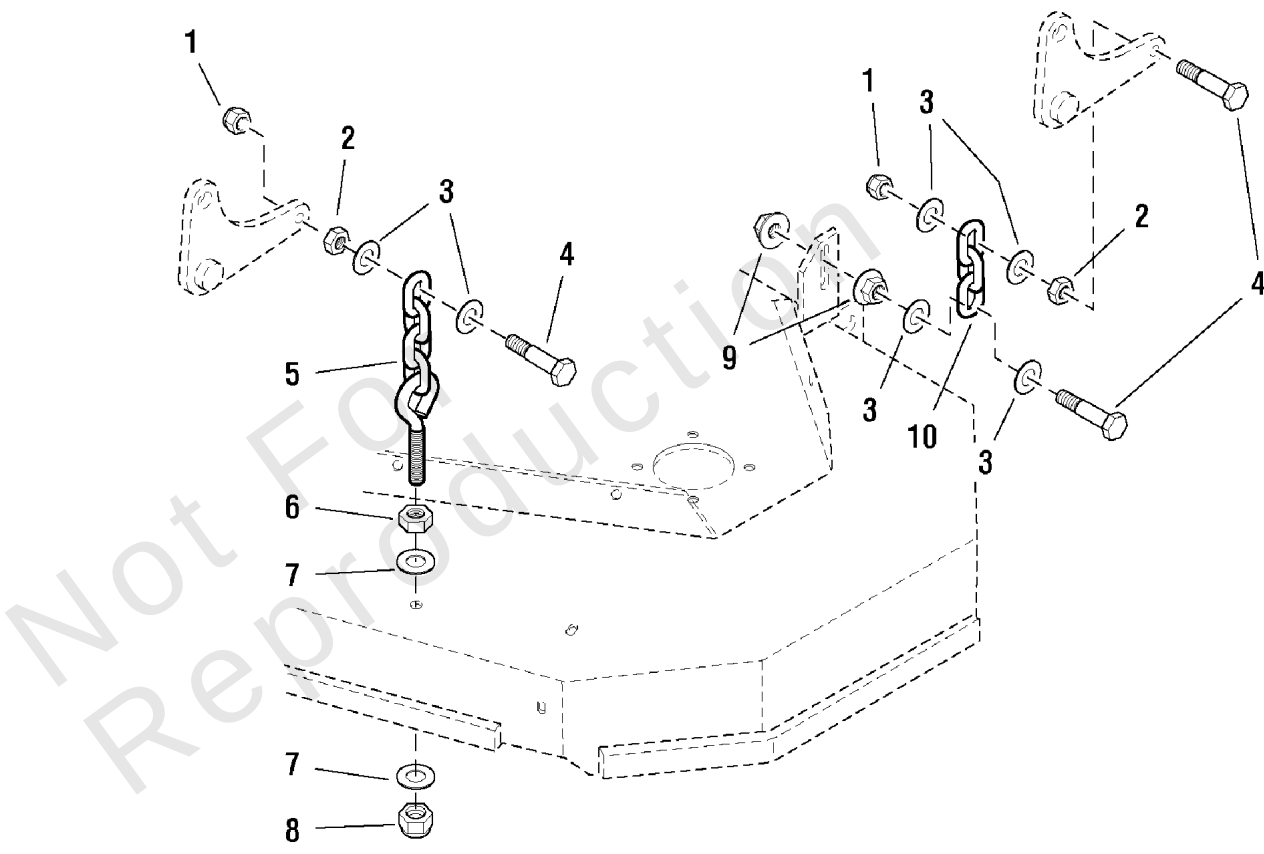
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61" Mower Deck - Hanger Chains

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



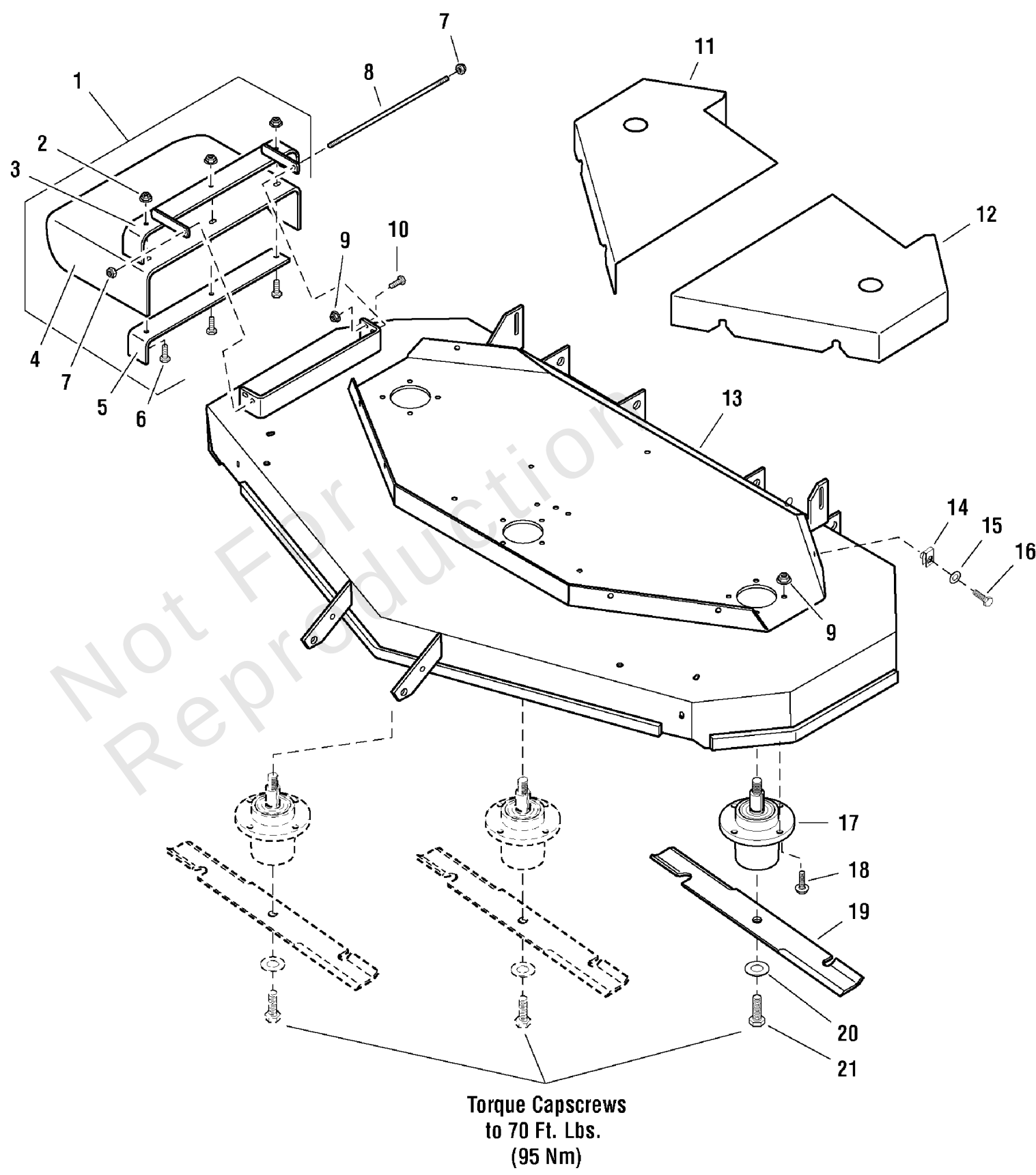
61" Mower Deck - Hanger Chains

REF NO	PART NO	QTY	DESCRIPTION
1	5025096	12	NUT, 3/8-16 HEX NYLON LOCK
2	5025084	4	NUT, 3/8-16 HEX JAM
3	5025156	12	WASHER, 3/8 SAE
4	5025013X14	6	BOLT, 3/8-16 X 1-3/4" GD5 CZ
5	5104303	2	HANGER, FRONT DECK - 4 LINK, 5.5" EB
6	5025038	2	NUT, 1/2-13 Hex
7	5025158	4	WASHER, 1/2 SAE
8	5025056	2	NUT, 1/2-13 HEX NYLON LOCK
9	5025128	4	NUT, 3/8-16 Hex Serrated Flange
10	5050878X3	2	CHAIN, 3 LINKS

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

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



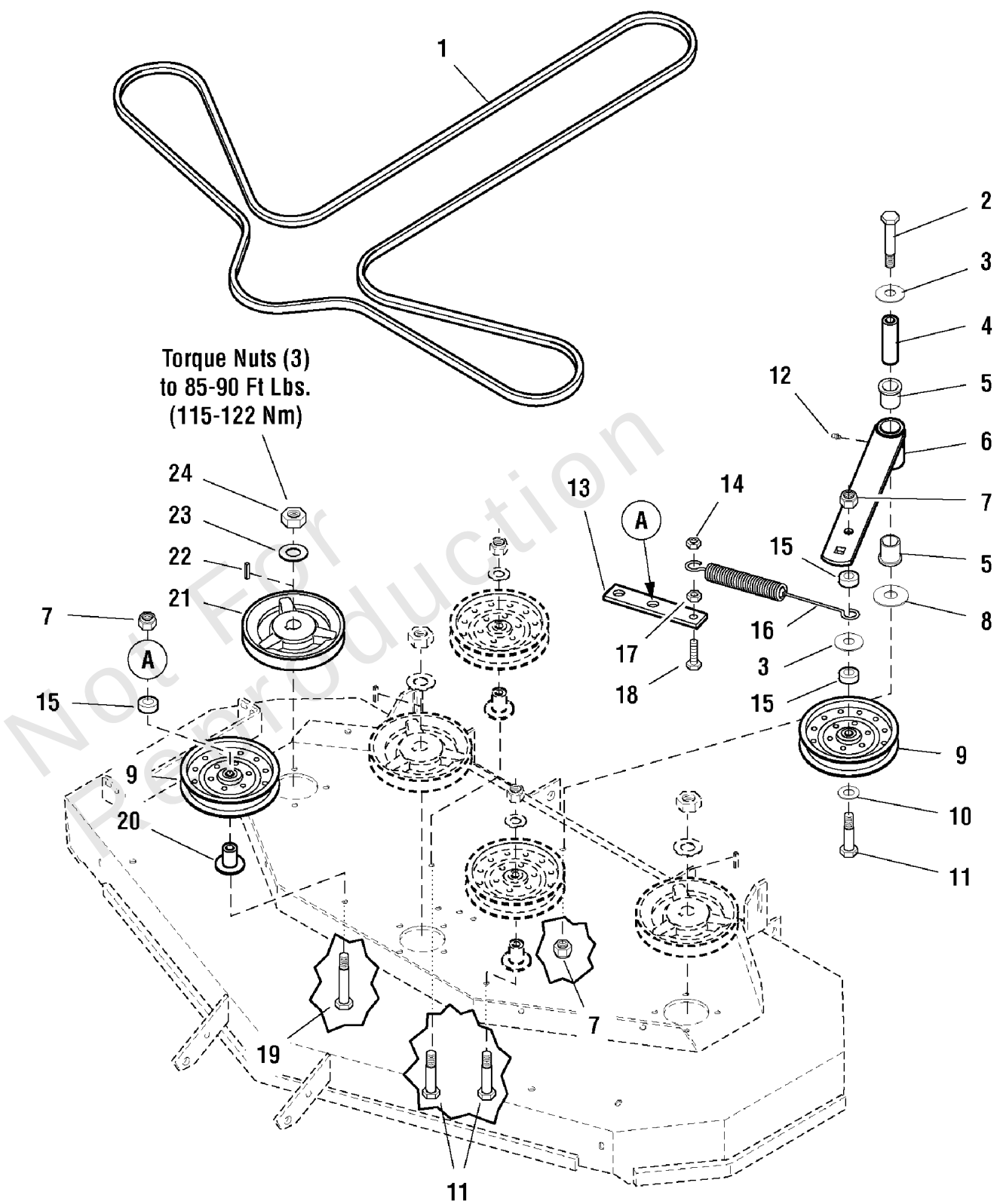
61" Mower Deck - Housing, Covers, Spindles & Blades

REF NO	PART NO	QTY	DESCRIPTION
1	5061288B	1	61" RUBBER CHUTE ASSEMBLY, Complete -(Includes Ref No. 2 - 6)
2	5025394	3	NUT, 3/8-16 Hex Nylock Flange
3	5061293B	1	CHUTE FRAME
4	5100525	1	RUBBER CHUTE
5	5061290B	1	CHUTE SUPPORT
6	5025013X10	3	BOLT, 3/8-16 X 1-1/4" GD5 CZ
7	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
8	5061300	1	CHUTE MOUNT ROD
9	5025392	13	NUT, 5/16-18 Hex Nylock Flange
10	5025011X6	1	BOLT, 5/16-18 X 3/4 GD5
11	5061450B	1	SPINDLE COVER - RH
12	5061451B	1	SPINDLE COVER - LH
13	5661333	1	DECK SHELL W/DECALS, 61" -(Includes safety decals)
14	5022308	6	BODY CLIP, 5/16-18-7GA MATERIAL
15	5025155	6	WASHER, 5/16" SAE
16	5025011X6	6	BOLT, 5/16-18 X 3/4 GD5
17	5061095	3	ASSM, SPINDLE, LOW PROFILE -(Nut and Washer Sold Seperately)
18	5023156	12	BOLT, Flange Head, 5/16-18 x 1-1/4
19	5020842	3	MOWER BLADE, 21"
20	5025477	3	WASHER, 5/8" GRADE 8, YZ
21	5025320X14	3	BOLT, 5/8-11 X 1-3/4 GD8

61" Mower Deck - Pulleys, Belt & Idler Arm

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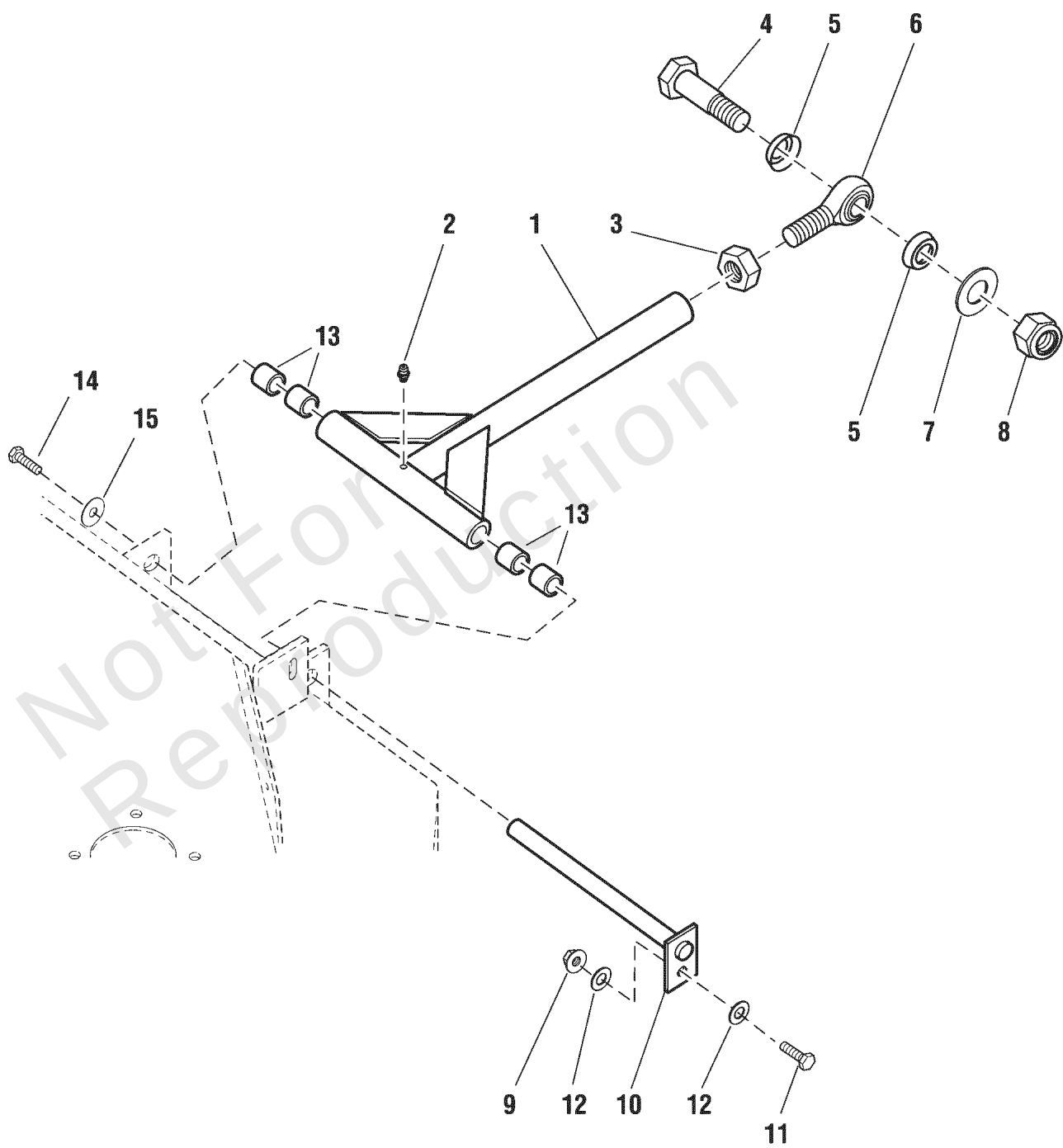
61" Mower Deck - Pulleys, Belt & Idler Arm

REF NO	PART NO	QTY	DESCRIPTION
1	5103871	1	BELT, 5V, 175.90EL, LG ARAMID, WRPD, RC
2	5025017X36	1	BOLT, 1/2-13 x 4-1/2
3	5025150	2	WASHER, 1/2" USS
4	5045022	1	SPACER, .52 x 1.00 x 3.50
5	5021541	2	BUSHING, FLANGE
6	5061305B	1	IDLER ARM
7	5025056	5	NUT, 1/2-13 HEX NYLON LOCK
8	5025281	1	WASHER, 5/8" SAE
9	-----	4	Replace with: Pulley #5104717 & Debris Shield #5105145 -*If not present, order 5025158 - washer and 5101103 - shield.
10	5025158	4	WASHER, 1/2 SAE
11	5025017X24	3	BOLT, 1/2-13 X 3" GD5 CZ
12	5020095	1	GREASE FITTING
13	5061226B	1	MOUNT, Idler Spring
14	5025046	1	NUT, 3/8-16 Hex Top Lock
15	5045023	3	SPACER, .52 x 1.00 x .44
16	5023340	1	SPRING, Extension, Swivel End
17	5025034	1	NUT, 3/8-16 Hex
18	5025013X10	1	BOLT, 3/8-16 X 1-1/4" GD5 CZ
19	5025017X28	1	BOLT, 1/2-13 X 3-1/2, HEX HD, GD5, CZ (SV)
20	5103430	3	IDLER MOUNT
21	5046466	3	SPINDLE PULLEY
22	5050407X10	3	KEY, 1/4 SQ. X 1-1/4
23	5025406	3	WASHER, 3/4 BELLEVILLE
24	5025405	3	NUT, 3/4-16 Hex

61" Mower Deck - Rear Mount Bars

Note: Unless noted otherwise, use the standard torque specifications

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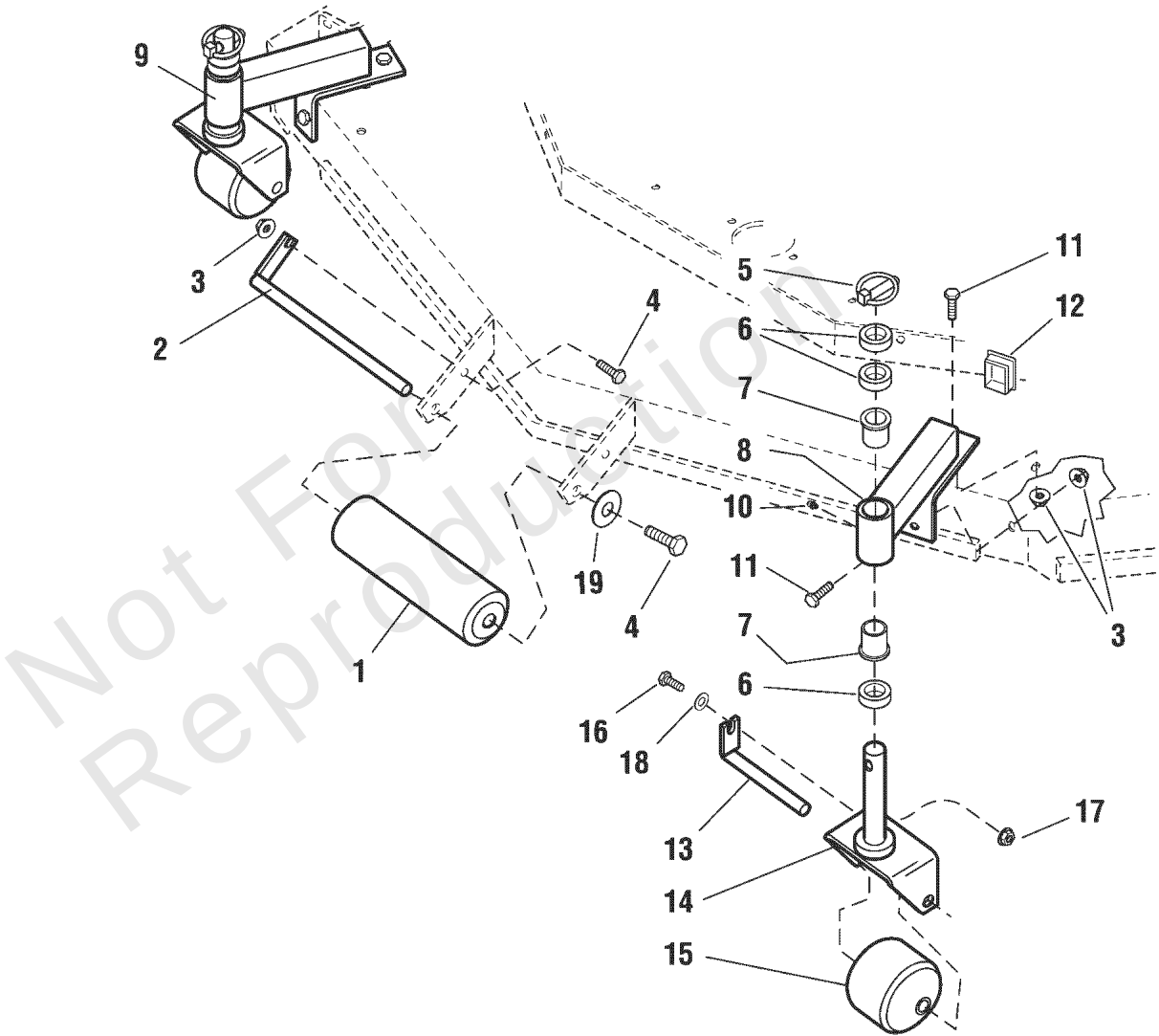
61" Mower Deck - Rear Mount Bars

REF NO	PART NO	QTY	DESCRIPTION
1	5045009B	2	ASSM, DECK PUSHER BAR -(Includes Ref No. 13)
2	5020095	2	GREASE FITTING
3	5025093	2	NUT, 3/4-16 Hex Jam
4	5025265X24	2	BOLT, 3/4-16 x 3
5	5022111	4	ROD END SEAL
6	5022039	2	BALL JOINT, 3/4-16 Male
7	5025160	2	WASHER, 3/4 SAE
8	5025284	2	NUT, 3/4-16 Hex Nylon Lock
9	5025096	2	NUT, 3/8-16 HEX NYLON LOCK
10	5045037A	2	NLA - WELD, DECK MOUNT SHAFT - BLK
11	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
12	5025156	4	WASHER, 3/8 SAE
13	5023344	8	BUSHING, .75 X 1.00 X 1.00, PLASTIC -(Qty. (4) per pusher bar)
14	5025013X8	2	BOLT, 3/8-16 X 1" GD5 CZ
15	5100548	2	WASHER, .390 X 1.50 X .109 YZ

61" Mower Deck - Rollers & Casters

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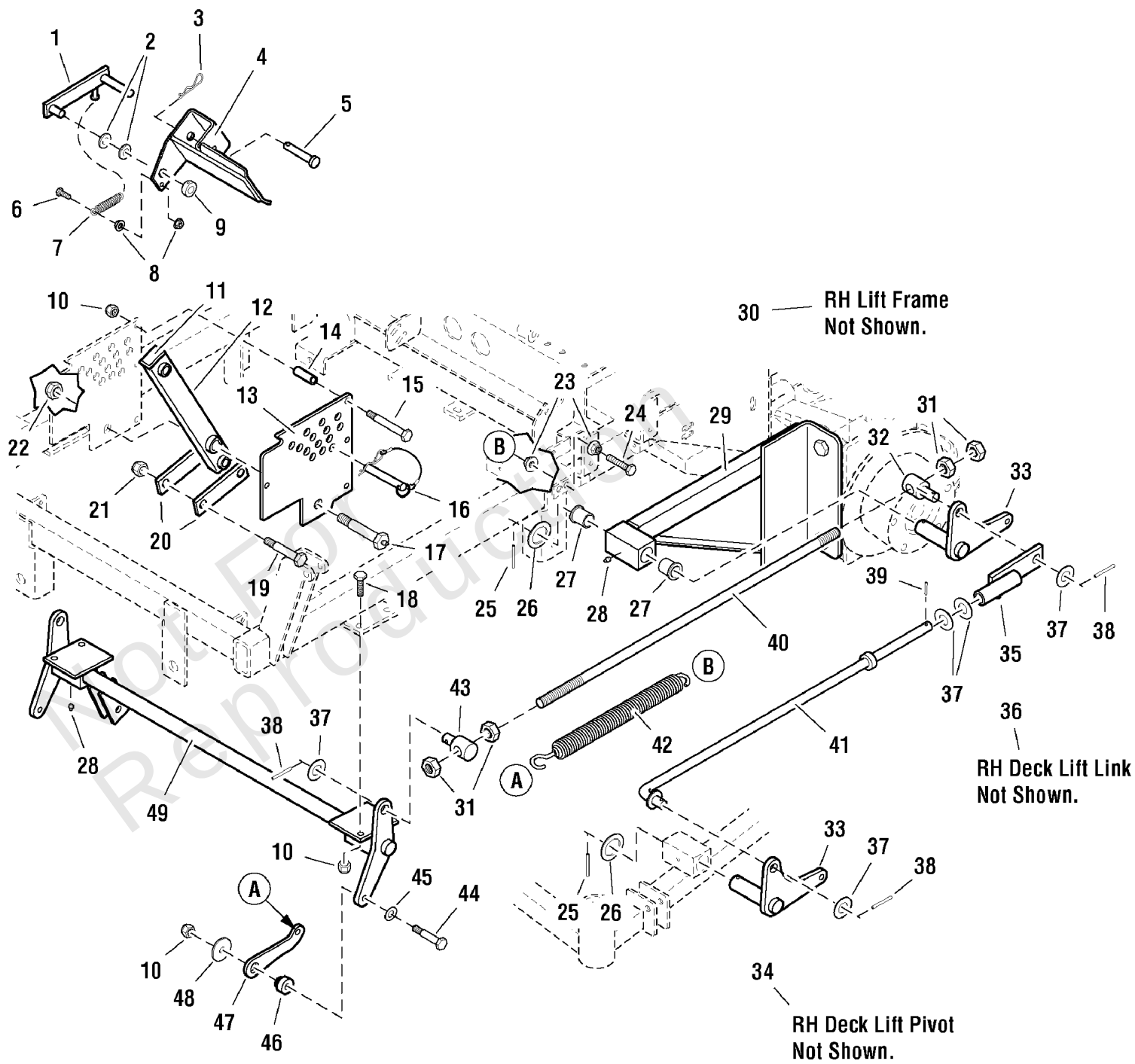
61" Mower Deck - Rollers & Casters

REF NO	PART NO	QTY	DESCRIPTION
1	5020785	1	ROLLER
2	5041655A	1	USE 5105755 - WELD, BRKT,ROLLER PIN,BLK
3	5025128	5	NUT, 3/8-16 Hex Serrated Flange
4	5025013X8	1	BOLT, 3/8-16 X 1" GD5 CZ
5	5020655	2	PIN, Lynch
6	5041476	6	SPACER, 1.02 x 1.56 x .50
7	5021541	4	BUSHING, FLANGE
8	5600280	1	ASSM, ARM, DECK CASTER, LH -(Includes bushings and grease fitting)
9	5600279	1	ASSM, ARM, DECK CASTER, RH -(Includes bushings and grease fitting)
10	5020095	2	GREASE FITTING
11	5025013X6	4	BOLT, 3/8-16 X 3/4" GD5 CZ
12	5022098	2	CAP, Plastic
13	5045034B	2	CASTER ROLLER PIN
14	5045188B	2	CASTER YOKE
15	5022060	2	ROLLER, Caster
16	5025011X6	2	BOLT, 5/16-18 X 3/4 GD5
17	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
18	5025292	2	WASHER, 5/16" GD9
19	5100548	1	WASHER, .390 X 1.50 X .109 YZ

Deck Lift Group (S/N: 4912 & below)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



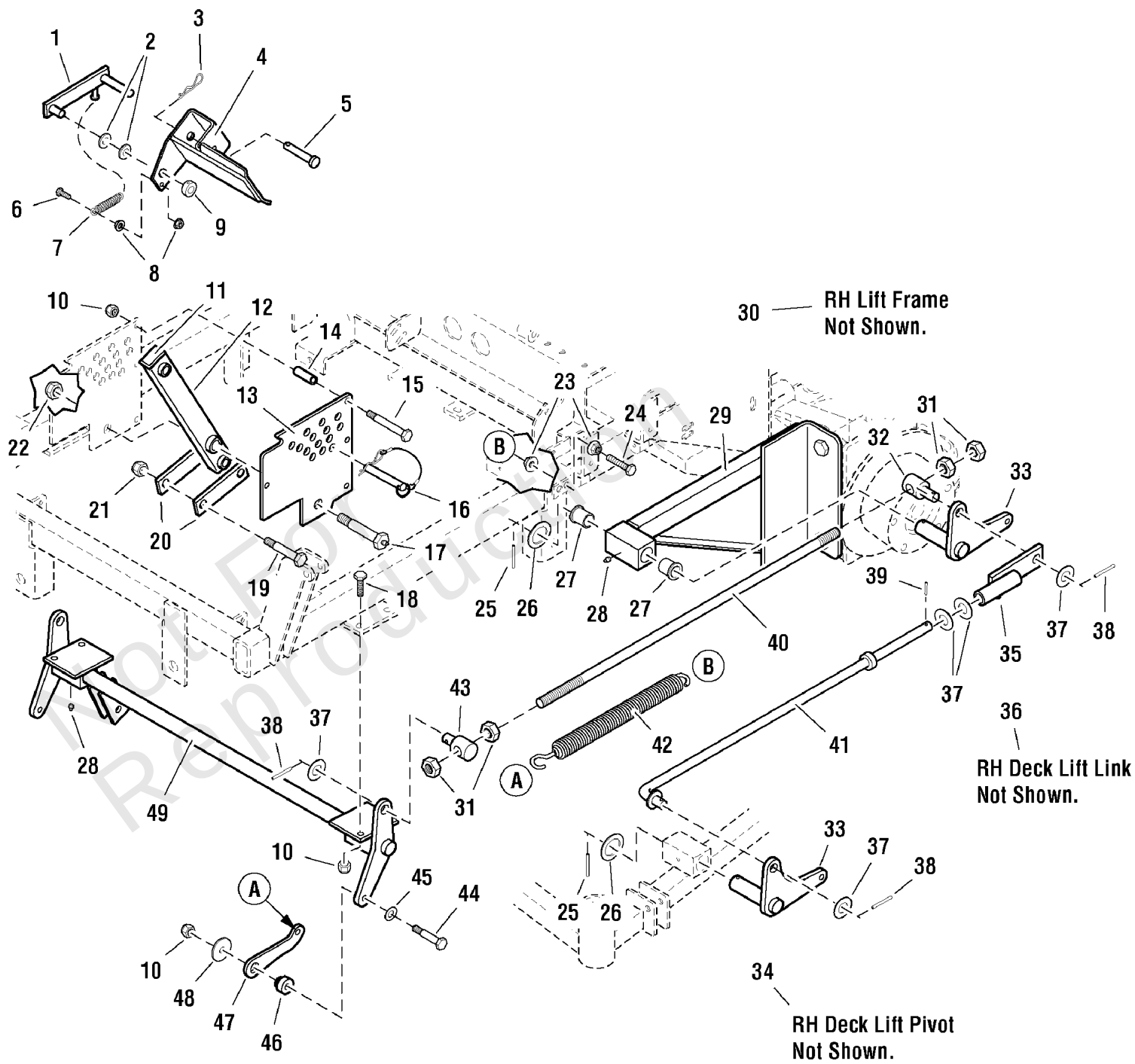
Deck Lift Group (S/N: 4912 & below)

REF NO	PART NO	QTY	DESCRIPTION
1	5061232B	1	DECK LIFT LOCK
2	5025158	2	WASHER, 1/2 SAE
3	5025210	1	HAIRPIN CLIP
4	5045058B	1	WELD, DECK LIFT PEDAL
5	5022044	1	PIN, Clevis, 1/2 x 2-1/2
6	5025010X6	1	BOLT, 1/4-20 x 3/4
7	5020639	1	SPRING, Extension
8	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
9	5023241	1	COLLAR, Split, 1/2
10	5025096	10	NUT, 3/8-16 HEX NYLON LOCK
11	5022097	1	CAP
12	5044987B	1	ARM, Deck Lift Pivot
13	5061307B	1	DECK HEIGHT PLATE
14	5044992	4	SPACER, .38 x .50 x 1.56
15	5025013X22	4	BOLT, 3/8-16 X 2-3/4" GD5 CZ
16	5023082	1	PIN, 1/2 x 3-1/2 w/ Lanyard
17	5044993	1	LIFT PIVOT BOLT
18	5025013X10	4	BOLT, 3/8-16 X 1-1/4" GD5 CZ
19	5025018X24	2	BOLT, 1/2-20 x 3
20	5044994B	2	DECK LIFT LINK
21	5025098	2	NUT, Hex, Nylon Lock, 1/2-20
22	5025282	1	NUT, 5/8-11 Hex Jam Nylon Lock
23	5025128	4	NUT, 3/8-16 Hex Serrated Flange
24	5025058X14	2	BOLT, 3/8-16 x 1-3/4 TFL
25	5025516	4	PIN, Roll, 3/16 x 1-1/2
26	5021253	4	SHIM
27	5023343	4	BUSHING, Flange
28	5020095	6	GREASE FITTING
29	5061319B	1	ASSM, LIFT FRAME, LH -(Includes Ref No. 27)
30	5061318B	1	ASSM, LIFT FRAME, RH -(Includes Ref No. 27, Not Shown)
31	5025040	8	NUT, 5/8-11 Hex
32	5047446	2	SPRING ROD PIVOT
33	5045449B	2	DECK LIFT PIVOT - LH
34	5045450B	2	DECK LIFT PIVOT - RH -(Not Shown)
35	5047522B	1	DECK LIFT LINK - LH
36	5047523B	1	DECK LIFT LINK - RH -(Not Shown)
37	5025281	10	WASHER, 5/8" SAE
38	5022366	4	PIN, Spring, 3/16 x 1-1/4
39	5025316	2	PIN, Roll, 3/16 x 3/4
40	5061304	2	DECK ADJUSTMENT ROD
41	5047761	2	DECK LIFT ROD
42	5023355	2	DECK LIFT SPRING
43	5045447	2	SPRING ROD PIVOT
44	5025013X16	2	BOLT, 3/8-16 X 2, GD5, CZ
45	5025156	2	WASHER, 3/8 SAE
46	5061227	2	DECK PIVOT BUSHING
47	5061224B	2	SPRING LINK
48	5025326	2	WASHER, 3/8 x 2

Deck Lift Group (S/N: 4912 & below)

Note: Unless noted otherwise, use the standard torque specifications

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Deck Lift Group (S/N: 4912 & below)

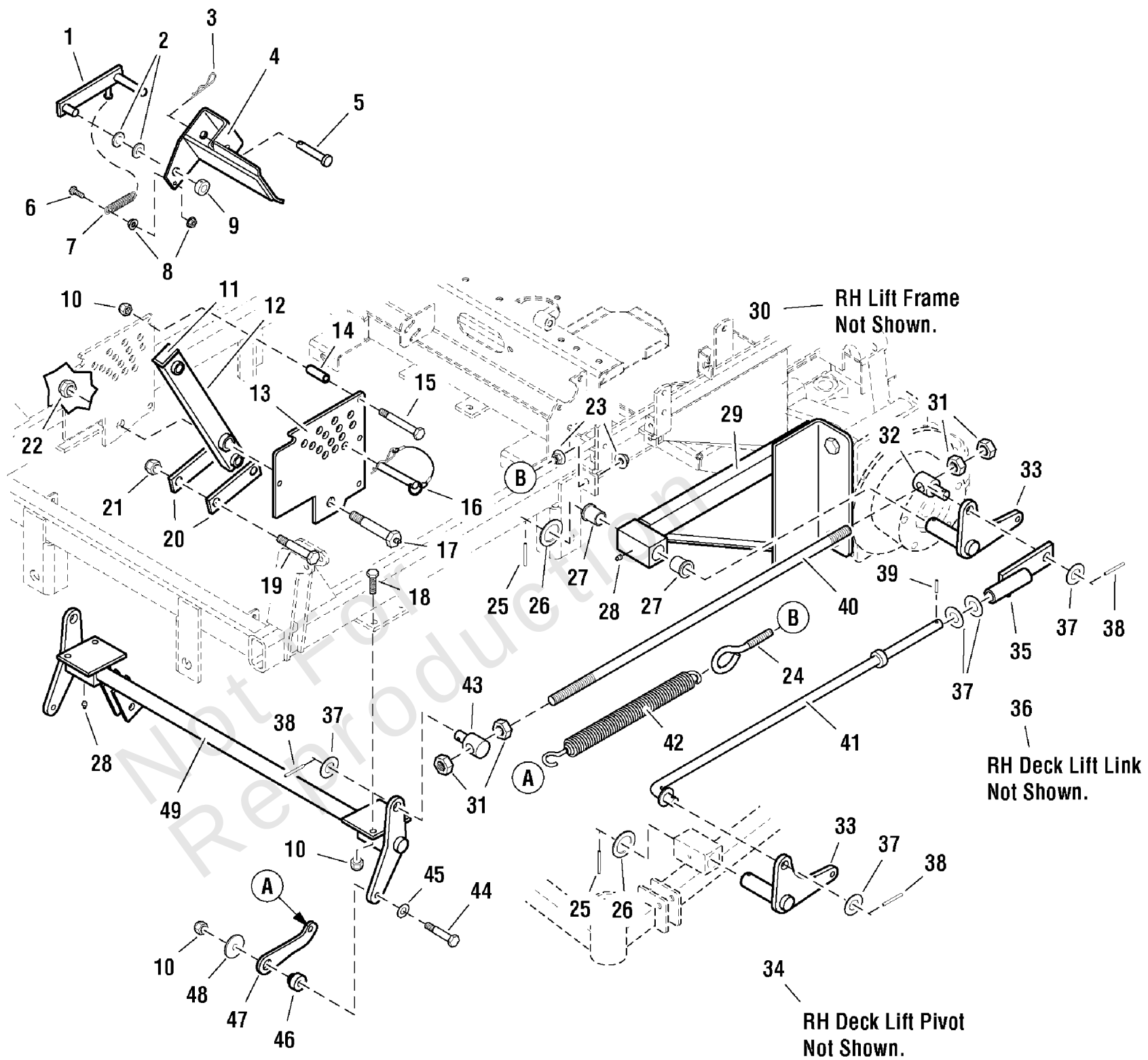
REF NO	PART NO	QTY	DESCRIPTION
49	5061222B	1	DECK LIFT SHAFT & MOUNT ASSEMBLY

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Deck Lift Group (S/N: 4913 & above)

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Mfg. No: 5901060



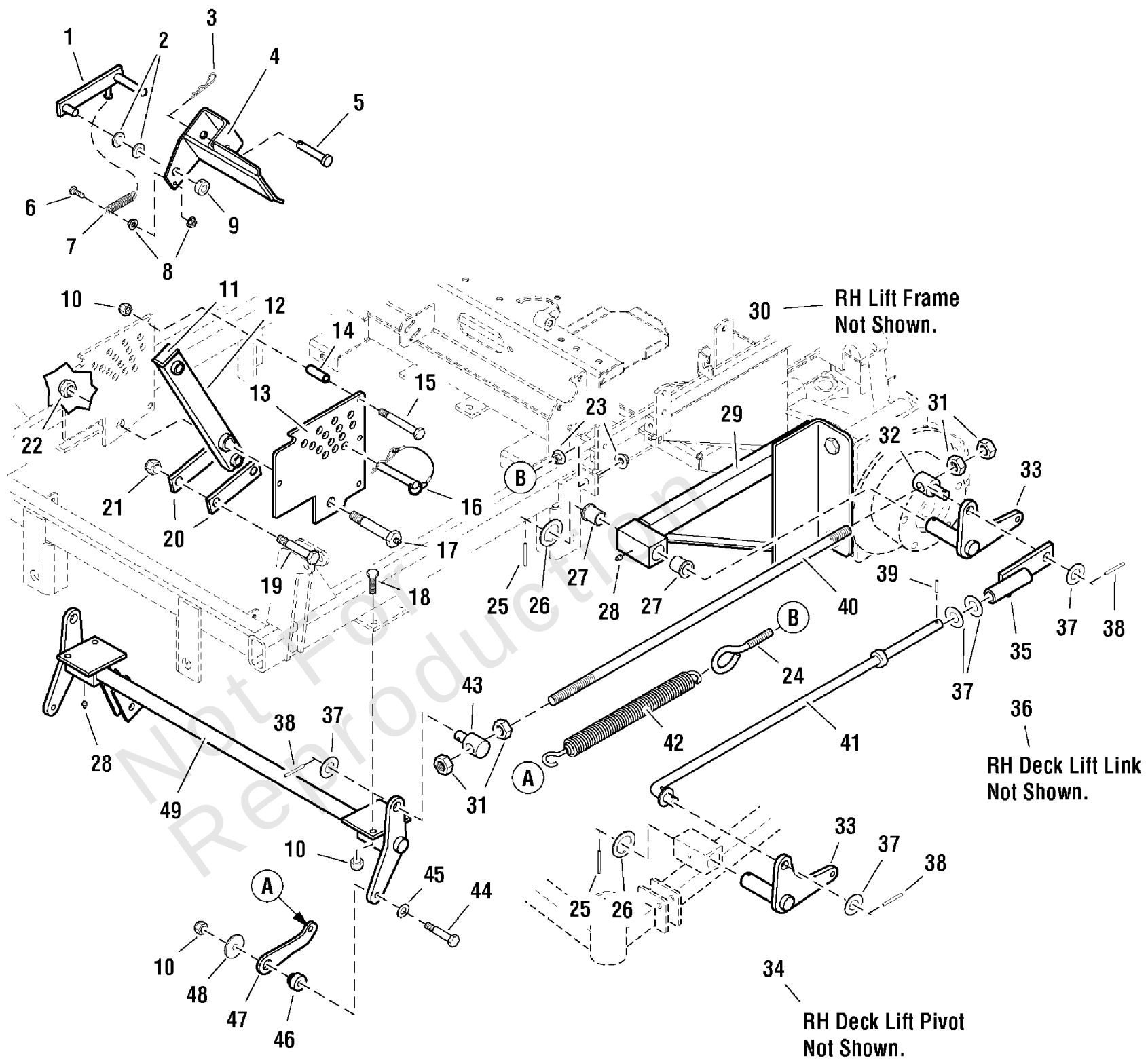
Deck Lift Group (S/N: 4913 & above)

REF NO	PART NO	QTY	DESCRIPTION
1	5061232B	1	DECK LIFT LOCK
2	5025158	2	WASHER, 1/2 SAE
3	5025210	1	HAIRPIN CLIP
4	5045058B	1	WELD, DECK LIFT PEDAL
5	5022044	1	PIN, Clevis, 1/2 x 2-1/2
6	5025010X6	1	BOLT, 1/4-20 x 3/4
7	5020639	1	SPRING, Extension
8	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
9	5023241	1	COLLAR, Split, 1/2
10	5025096	10	NUT, 3/8-16 HEX NYLON LOCK
11	5022097	1	CAP
12	5044987B	1	ARM, Deck Lift Pivot
13	5061307B	1	DECK HEIGHT PLATE
14	5044992	4	SPACER, .38 x .50 x 1.56
15	5025013X22	4	BOLT, 3/8-16 X 2-3/4" GD5 CZ
16	5023082	1	PIN, 1/2 x 3-1/2 w/ Lanyard
17	5044993	1	LIFT PIVOT BOLT
18	5025013X10	4	BOLT, 3/8-16 X 1-1/4" GD5 CZ
19	5025018X24	2	BOLT, 1/2-20 x 3
20	5044994B	2	DECK LIFT LINK
21	5025098	2	NUT, Hex, Nylon Lock, 1/2-20
22	5025282	1	NUT, 5/8-11 Hex Jam Nylon Lock
23	5025128	4	NUT, 3/8-16 Hex Serrated Flange
24	5025417	2	EYE BOLT, 3/8-16 X 2.96, 1.25THRD, .7EYE
25	5025516	4	PIN, Roll, 3/16 x 1-1/2
26	5020929	4	SHIM, 1.0 X 1.5 X 0.125
27	5023343	4	BUSHING, Flange
28	5020095	6	GREASE FITTING
29	5061319B	1	ASSM, LIFT FRAME, LH -(Includes Ref No. 27)
30	5061318B	1	ASSM, LIFT FRAME, RH -(Includes Ref No. 27, Not Shown)
31	5025040	8	NUT, 5/8-11 Hex
32	5047446	2	SPRING ROD PIVOT
33	5045449B	2	DECK LIFT PIVOT - LH
34	5045450B	2	DECK LIFT PIVOT - RH -(Not Shown)
35	5047522B	1	DECK LIFT LINK - LH
36	5047523B	1	DECK LIFT LINK - RH -(Not Shown)
37	5025281	10	WASHER, 5/8" SAE
38	5022366	4	PIN, Spring, 3/16 x 1-1/4
39	5025316	2	PIN, Roll, 3/16 x 3/4
40	5061304	2	DECK ADJUSTMENT ROD
41	5047761	2	DECK LIFT ROD
42	5023355	2	DECK LIFT SPRING
43	5045447	2	SPRING ROD PIVOT
44	5025013X16	2	BOLT, 3/8-16 X 2, GD5, CZ
45	5025156	2	WASHER, 3/8 SAE
46	5061227	2	DECK PIVOT BUSHING
47	5061224B	2	SPRING LINK
48	5025326	2	WASHER, 3/8 x 2

Deck Lift Group (S/N: 4913 & above)

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Deck Lift Group (S/N: 4913 & above)

REF NO	PART NO	QTY	DESCRIPTION
49	5061222B	1	DECK LIFT SHAFT & MOUNT ASSEMBLY

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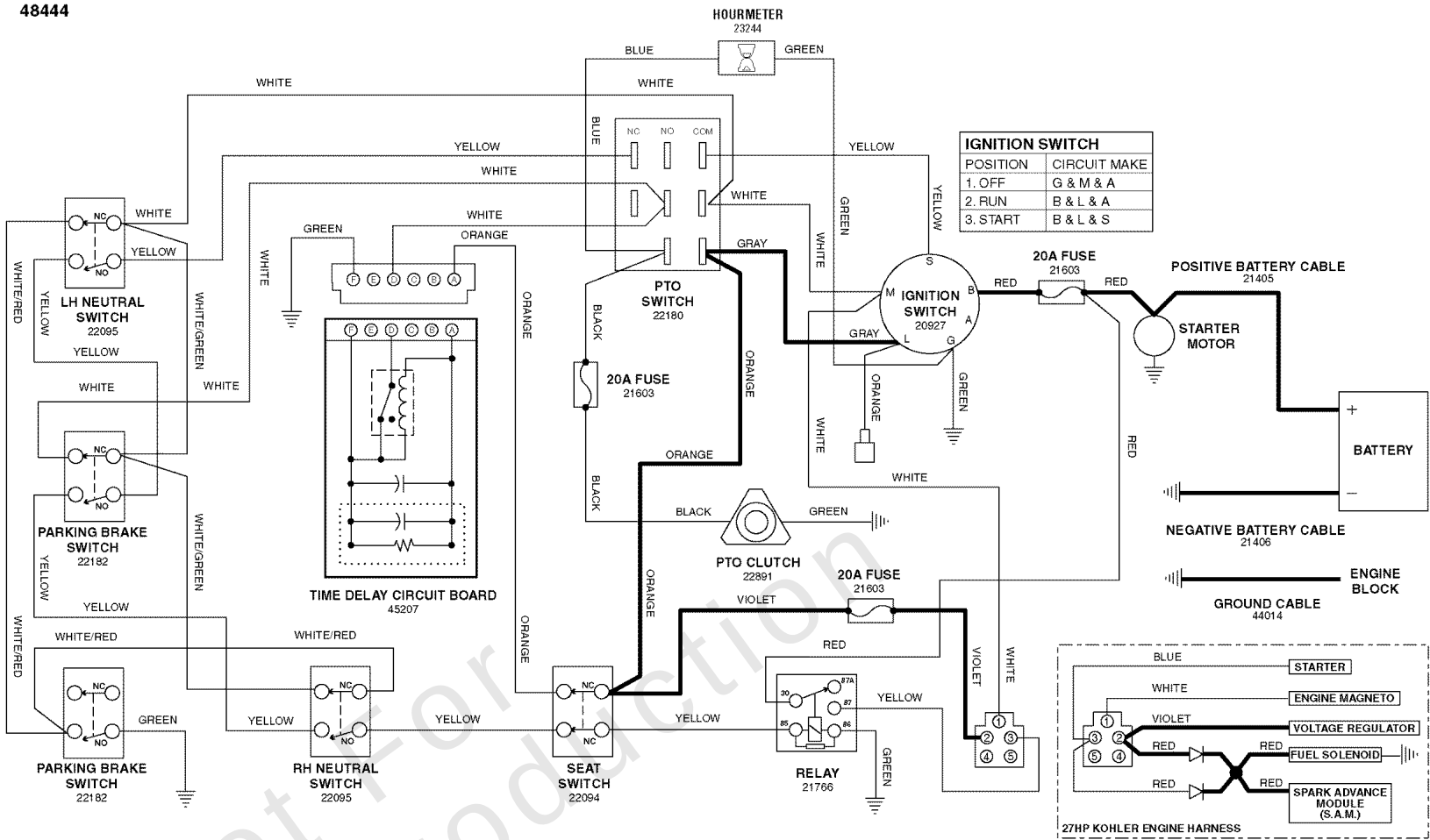
Electrical Schematic - Charging Circuit - Kohler (S/N: 3631 - 4837)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060

Model(s):
IS3000ZXK27/61 - S/N: 351 - 4837

Wire Harness Part No:
48444



Electrical Schematic - Charging Circuit - Kohler (S/N: 3631 - 4837)

REF NO	PART NO	QTY	DESCRIPTION
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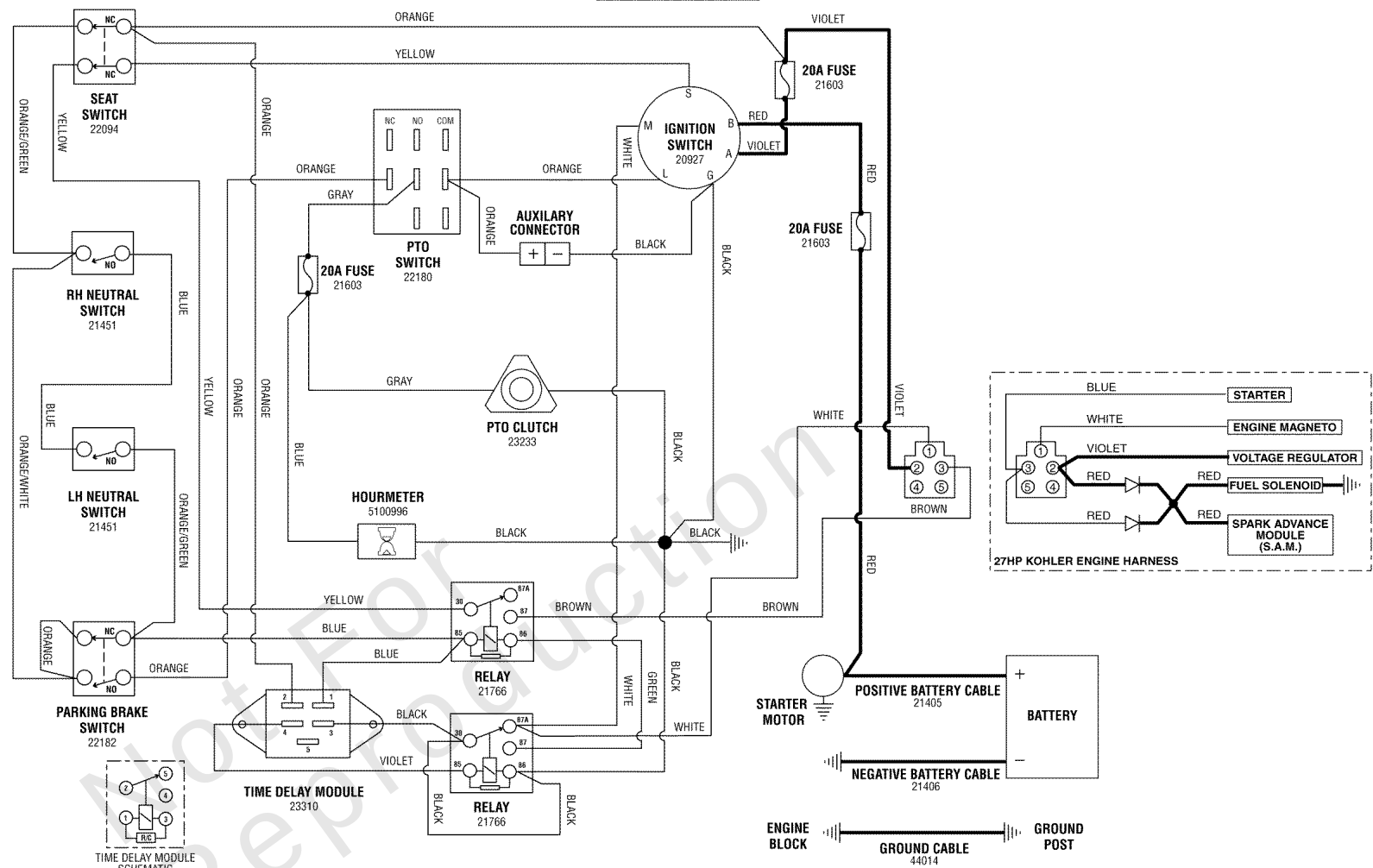
Electrical Schematic - Charging Circuit - Kohler (S/N: 4838 & above)

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Mfg. No: 5901060

IS3000ZX KOHLER WIRE HARNESS
61826

IGNITION SWITCH	
POSITION	CIRCUIT MAKE
1. OFF	G & M & A
2. RUN	B & L & A
3. START	B & L & S



Electrical Schematic - Charging Circuit - Kohler (S/N: 4838 & above)

REF NO	PART NO	QTY	DESCRIPTION
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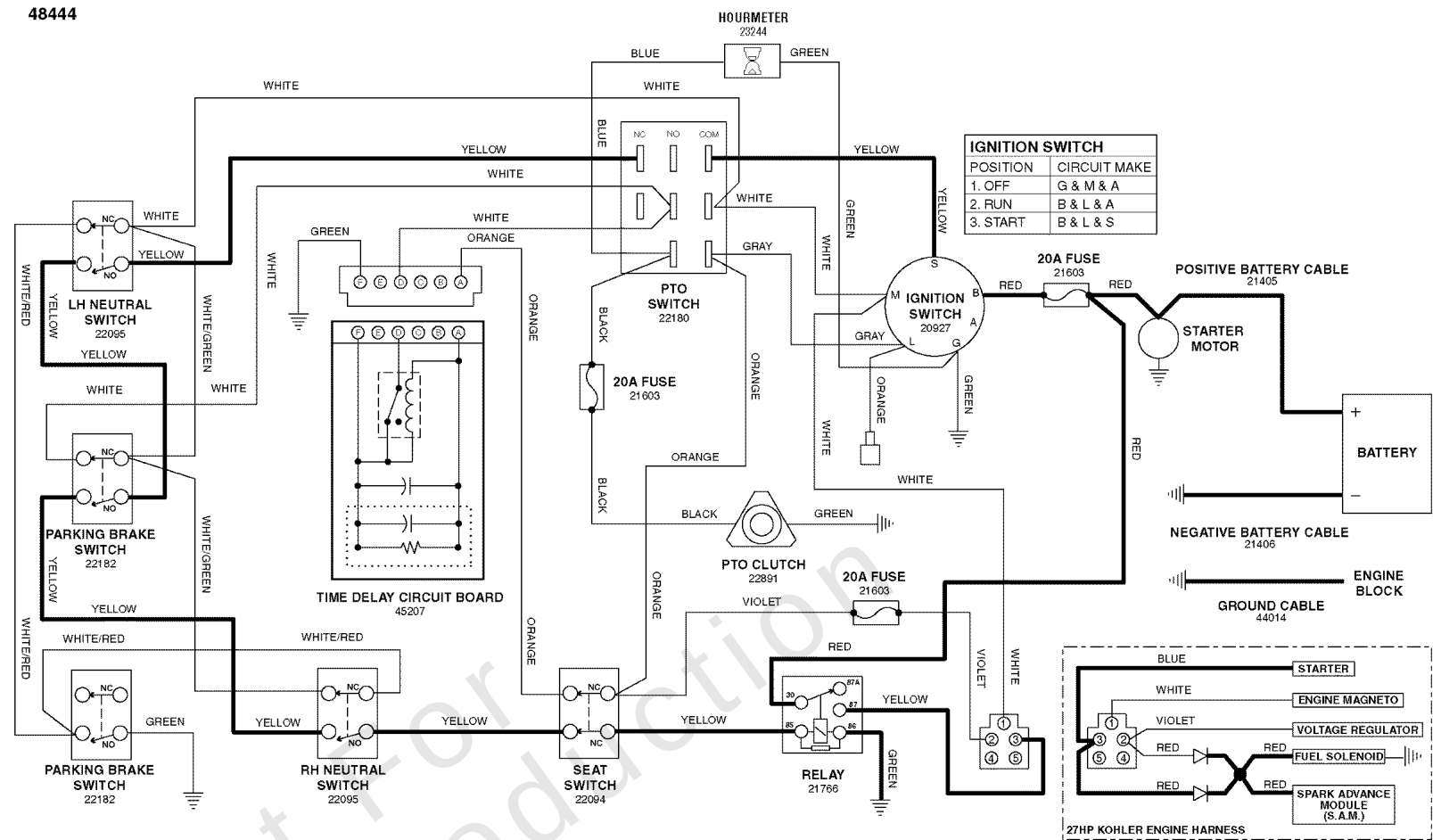
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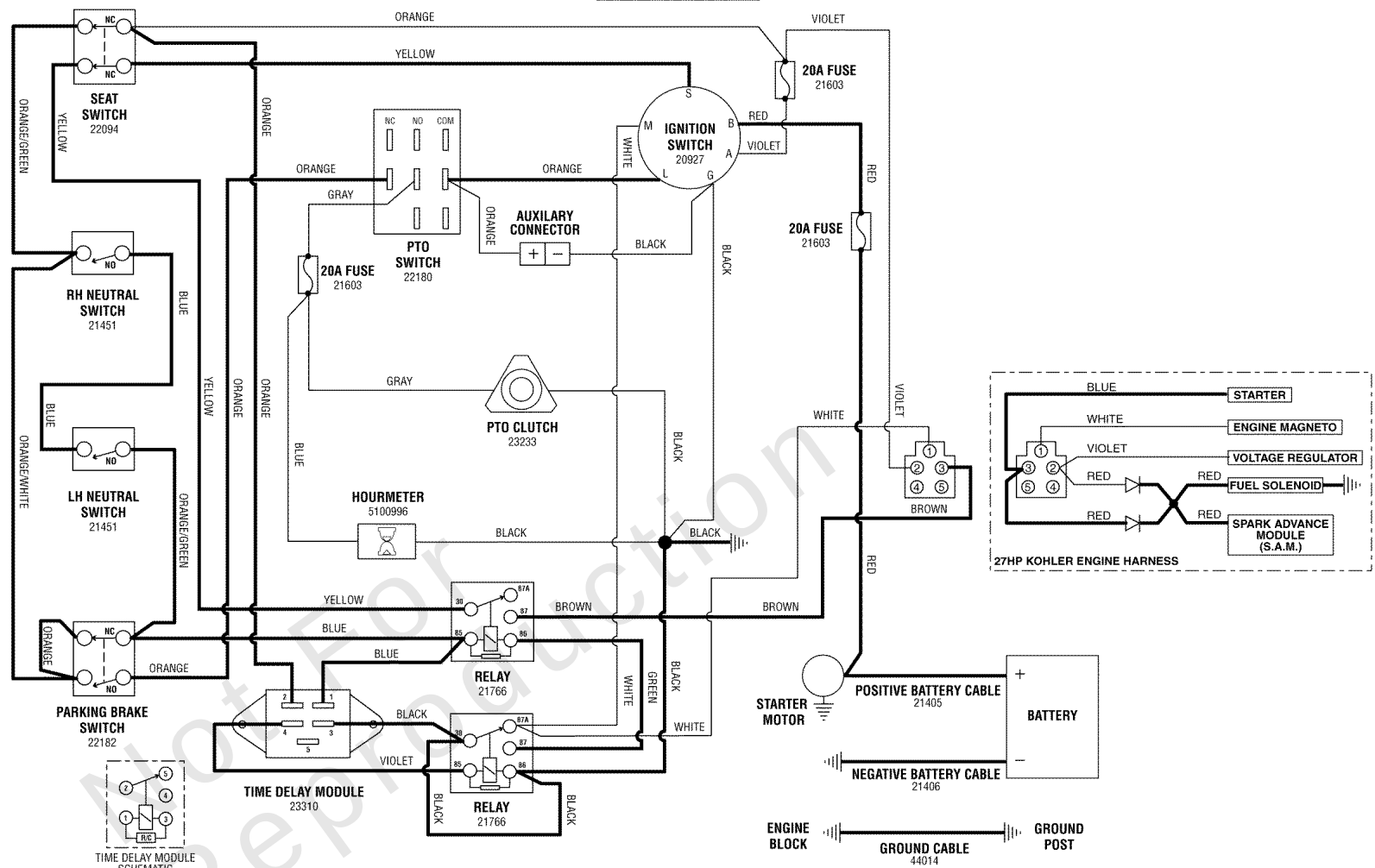
Electrical Schematic - Cranking Circuit - Kohler (S/N: 4838 & above)

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IS3000ZX KOHLER WIRE HARNESS
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IGNITION SWITCH	
POSITION	CIRCUIT MAKE
1. OFF	G & M & A
2. RUN	B & L & A
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REF NO	PART NO	QTY	DESCRIPTION
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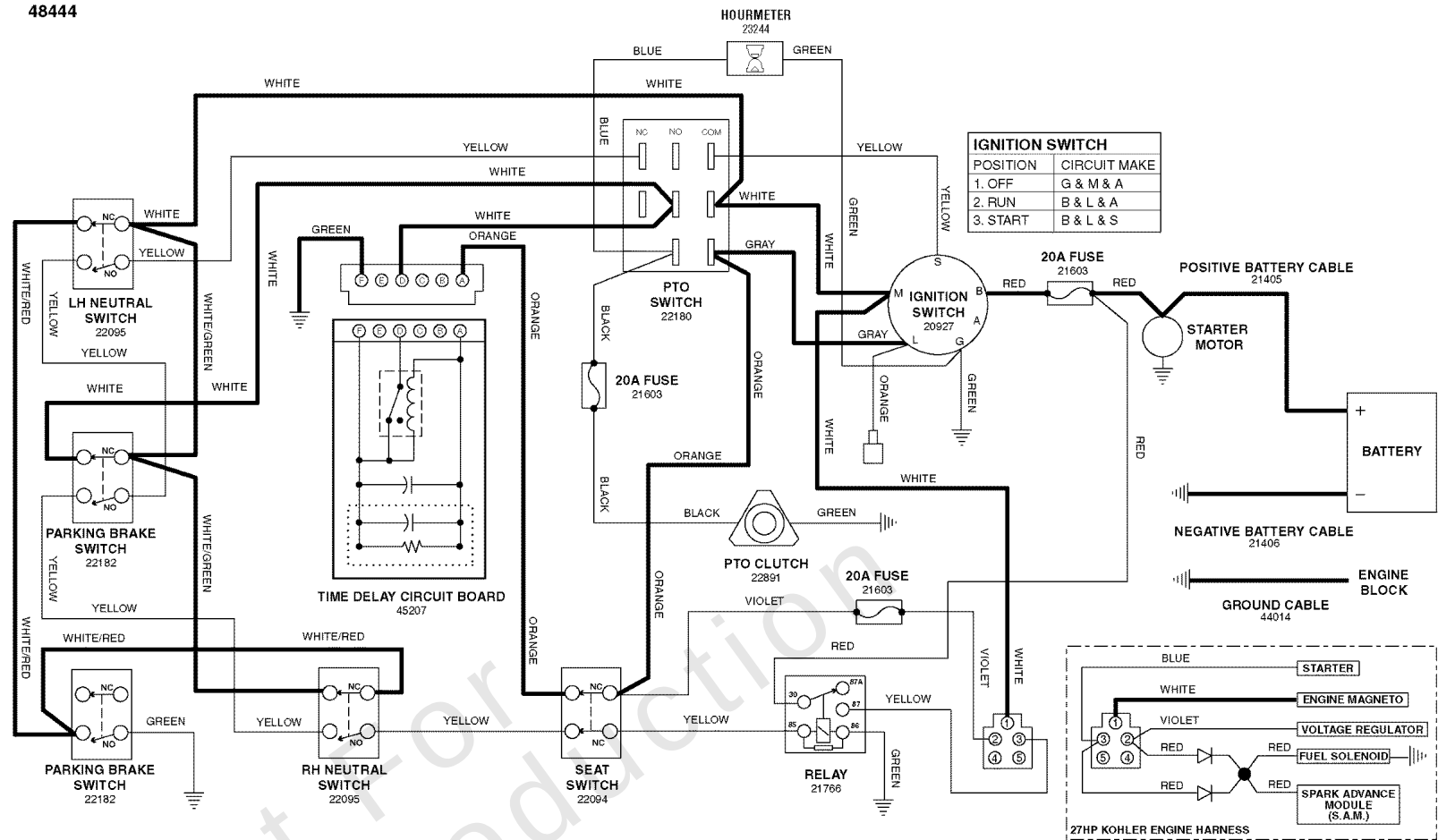
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Electrical Schematic - Ignition Grounding Circuit/Operator Presence - Kohler (S/N: 3631 -

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5901060

Model(s):
IS3000ZXK27/61 - S/N: 351 - 4837

Wire Harness Part No:
48444



Electrical Schematic - Ignition Grounding Circuit/Operator Presence - Kohler (S/N: 3631 -

REF NO	PART NO	QTY	DESCRIPTION
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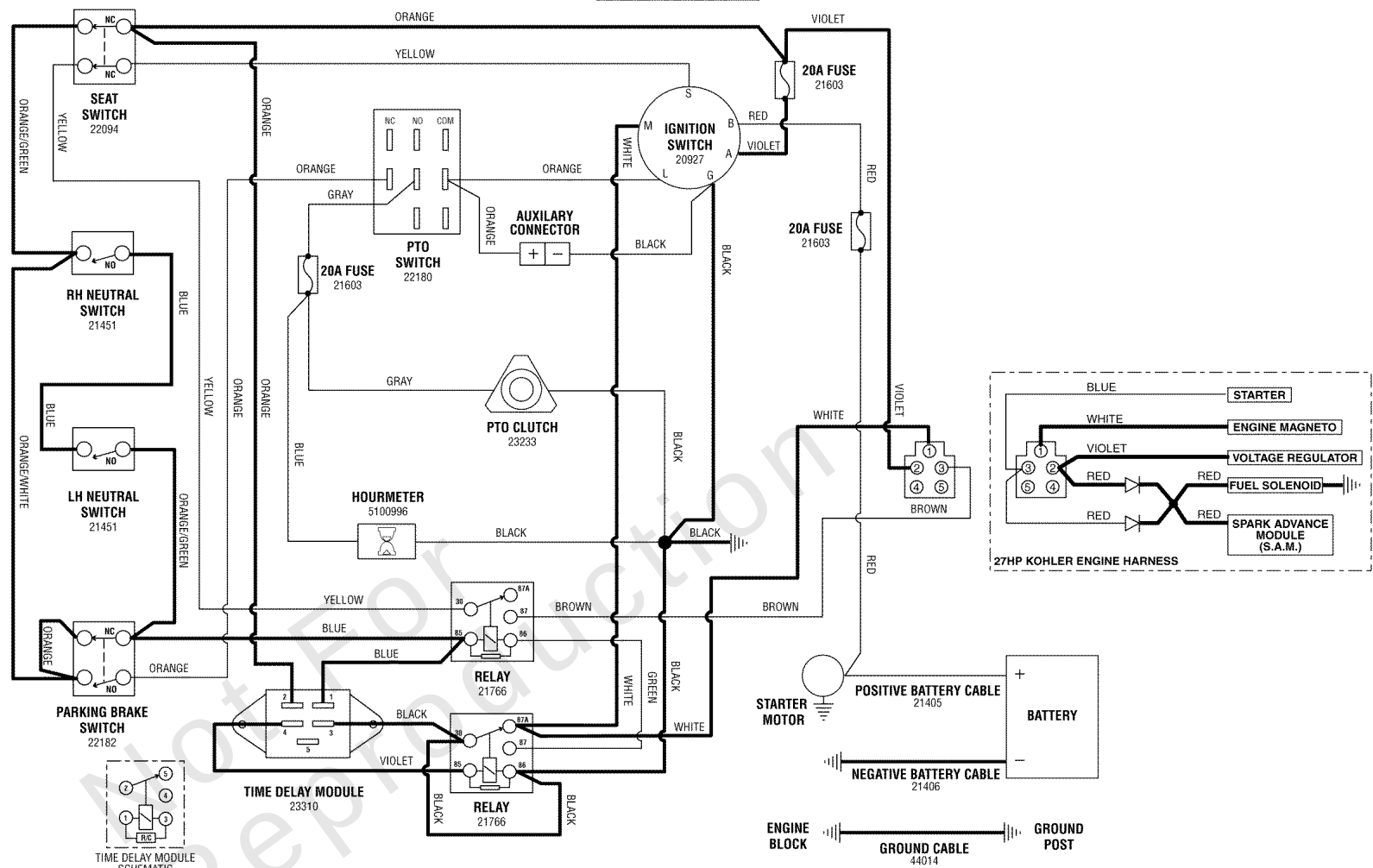
Electrical Schematic - Ignition Grounding Circuit/Operator Presence - Kohler (S/N: 4838 &

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Mfg. No: 5901060

IS3000ZX KOHLER WIRE HARNESS
61826

IGNITION SWITCH	
POSITION	CIRCUIT MAKE
1. OFF	G & M & A
2. RUN	B & L & A
3. START	B & L & S



Electrical Schematic - Ignition Grounding Circuit/Operator Presence - Kohler (S/N: 4838 &

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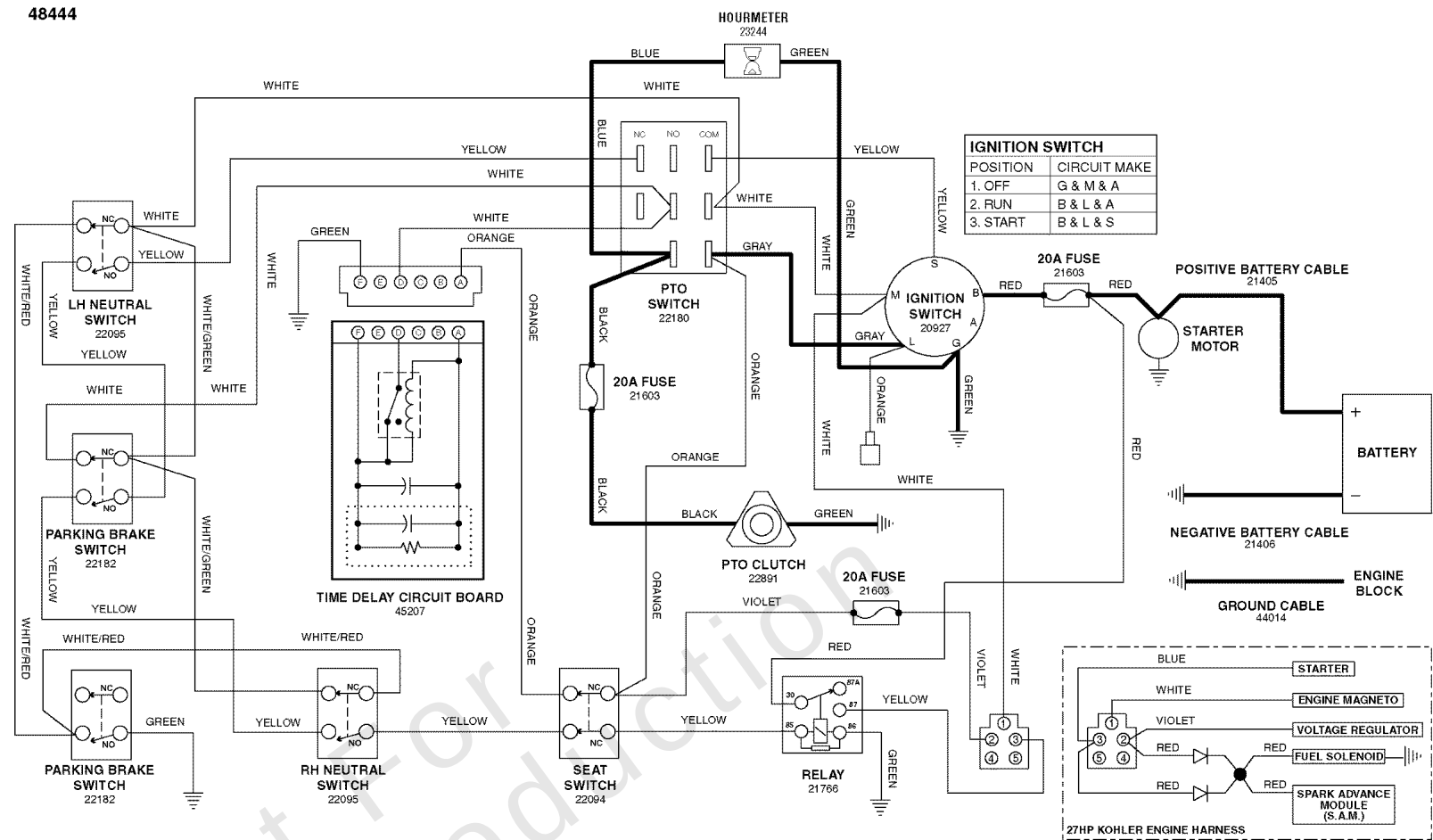
Electrical Schematic - PTO Clutch Circuit - Kohler (S/N: 3631 - 4837)

Note: Unless noted otherwise, use the standard torque specifications

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Model(s):
IS3000ZXK27/61 - S/N: 351 - 4837

Wire Harness Part No:
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Electrical Schematic - PTO Clutch Circuit - Kohler (S/N: 3631 - 4837)

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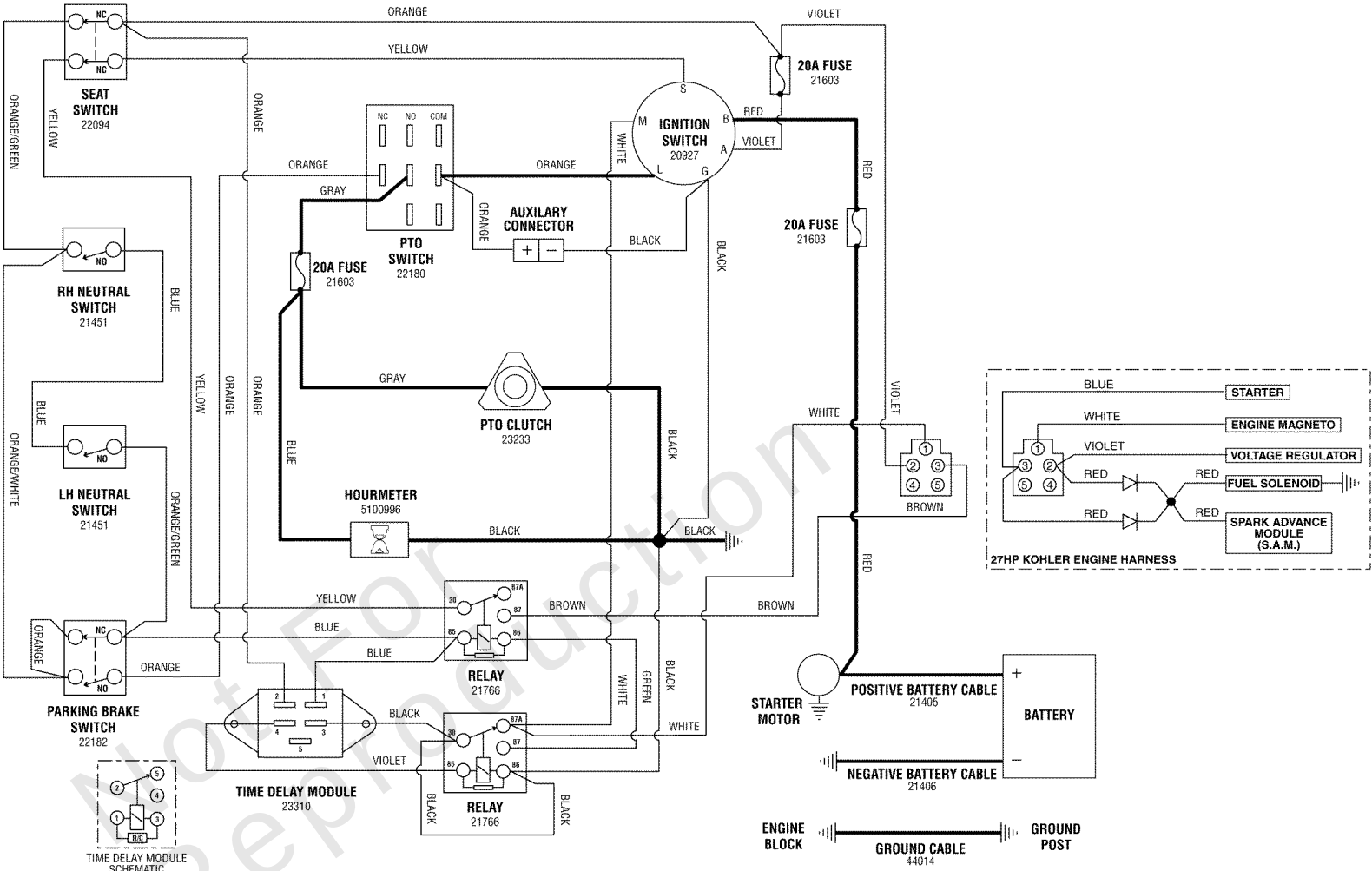
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IS3000ZX KOHLER WIRE HARNESS
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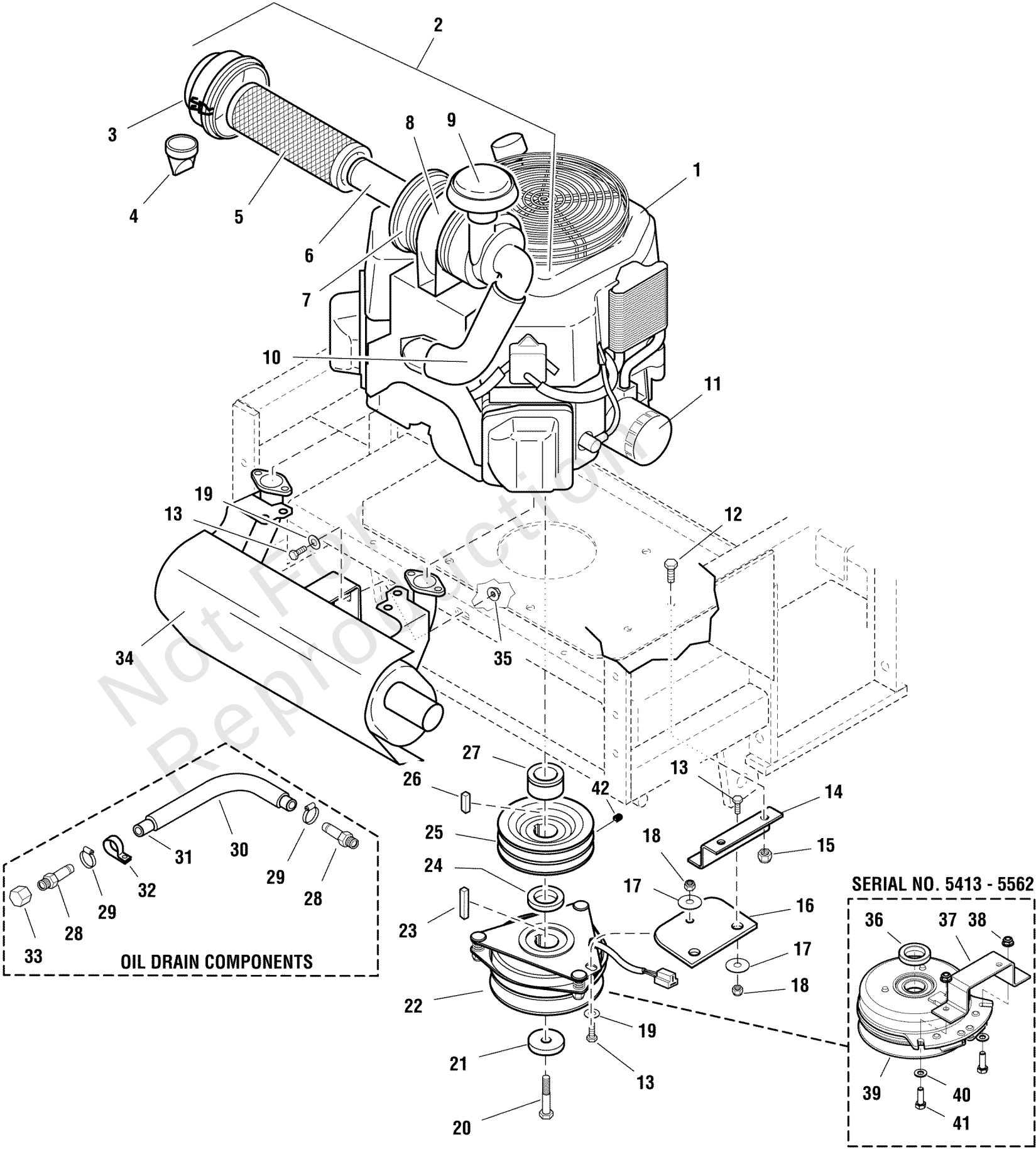
IGNITION SWITCH	
POSITION	CIRCUIT MAKE
1. OFF	G & M & A
2. RUN	B & L & A
3. START	B & L & S



Electrical Schematic - PTO Clutch Circuit - Kohler (S/N: 4838 & above)

REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction



Engine & PTO Group - Kohler

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	* ENGINE, Kohler (Model CV740S) -(Includes Ref No. 2 - 10)
2	-----	1	* KIT, 5.5" HD AIR CLEANER (24 743 22-S) -(Includes Ref No. 3 - 9)
3	-----	1	* END CAP (25 096 06-S)
4	-----	1	* DUST VALVE (24 462 07-S)
5	5022892X1	1	PRIMARY PAPER ELEMENT (25 083 01-S)
6	5022892X2	1	SECONDARY ELEMENT (25 083 04-S)
7	-----	1	HOUSING (25 081 01-S)
8	-----	1	HOUSING MOUNT BRACKET (25 126 02-S)
9	5022892X3	1	RAIN COVER (25 324 02-S)
10	-----	1	INLET HOSE (25 326 53-S)
11	5021144X1	1	OIL FILTER (12 050 01)
12	5025013X8	2	BOLT, 3/8-16 X 1" GD5 CZ
13	5025011X6	4	BOLT, 5/16-18 X 3/4 GD5
14	5046416A	1	ANCHOR, CLUTCH - BLK
15	5025096	2	NUT, 3/8-16 HEX NYLON LOCK
16	5043636	1	CLUTCH ANCHOR PAD
17	5025165	3	WASHER, 3/8" Fender
18	5025057	3	NUT, 5/16-18 Hex Nylon Lock
19	5025155	2	WASHER, 5/16" SAE
20	5045938	1	CRANKSHAFT BOLT, 7/16 x 2-1/4
21	5045475	1	SPACER, .45 x 1.88 x .38
22	5023233	1	CLUTCH, OGURA, 250 ft lbs - 1.13"
23	5050407X3	1	KEY, 1/4 SQ. X 2
24	5042945	1	SPACER, 1.13 x 2.00 x .19
25	5047075	1	CRANKSHAFT PULLEY
26	5050407X1	1	KEY, 1/4 SQ. X 1
27	5047033	1	SPACER, 1.13 x 1.75 x 1.03
28	5021372	2	FITTING, 3/8NPT-1/2" Hose, Straight
29	5021392	2	CLAMP, #6 Hose
30	5050862X12	1	WIRE LOOM, 12"
31	5050857X13	1	HOSE, 13"
32	5021500	1	CLAMP, Vinyl
33	5021466	1	CAP, 3/8 NPT
34	5022952	1	MUFFLER
35	5025127	1	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
36	5100062	1	** SPACER, 1.13 x 1.75 x .32
37	5400328B	1	** CLUTCH ANCHOR
38	5025392	2	** NUT, 5/16-18 Hex Nylock Flange
39	-----	1	** ELECTRIC CLUTCH
40	5025155	2	WASHER, 5/16" SAE
41	5025011X8	2	** BOLT, 5/16-18 x 1"
42	5025531	1	SET SCREW, 5/16-18 X 3/8, KNUURL, W/PATCH

Footnotes:

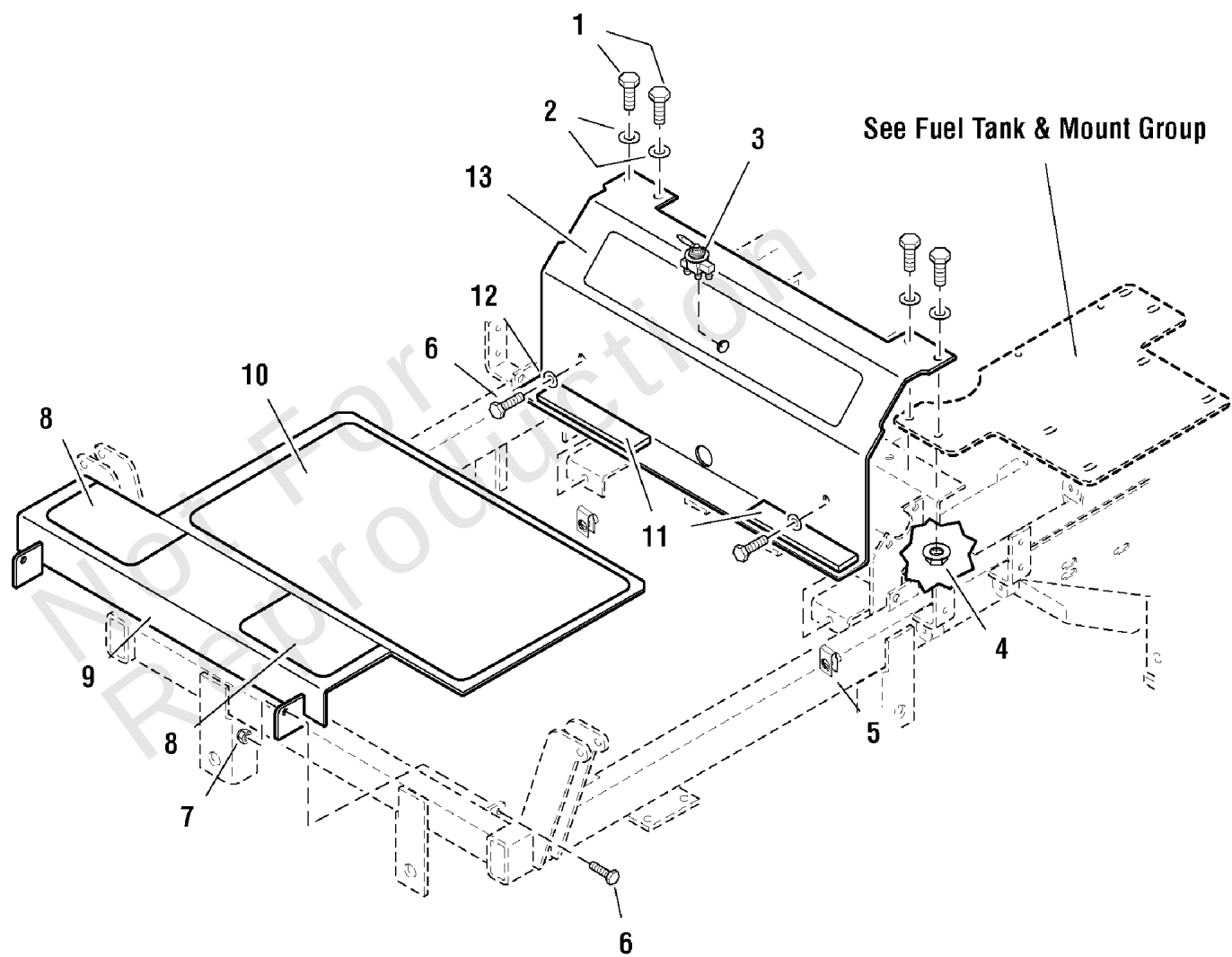
** If clutch needs to be replaced, order Part No. 5023233, 5045475, 5050407X3 and 5042945.

* See your local Kohler engine dealer for parts & service.

Floor & Brake Cover Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



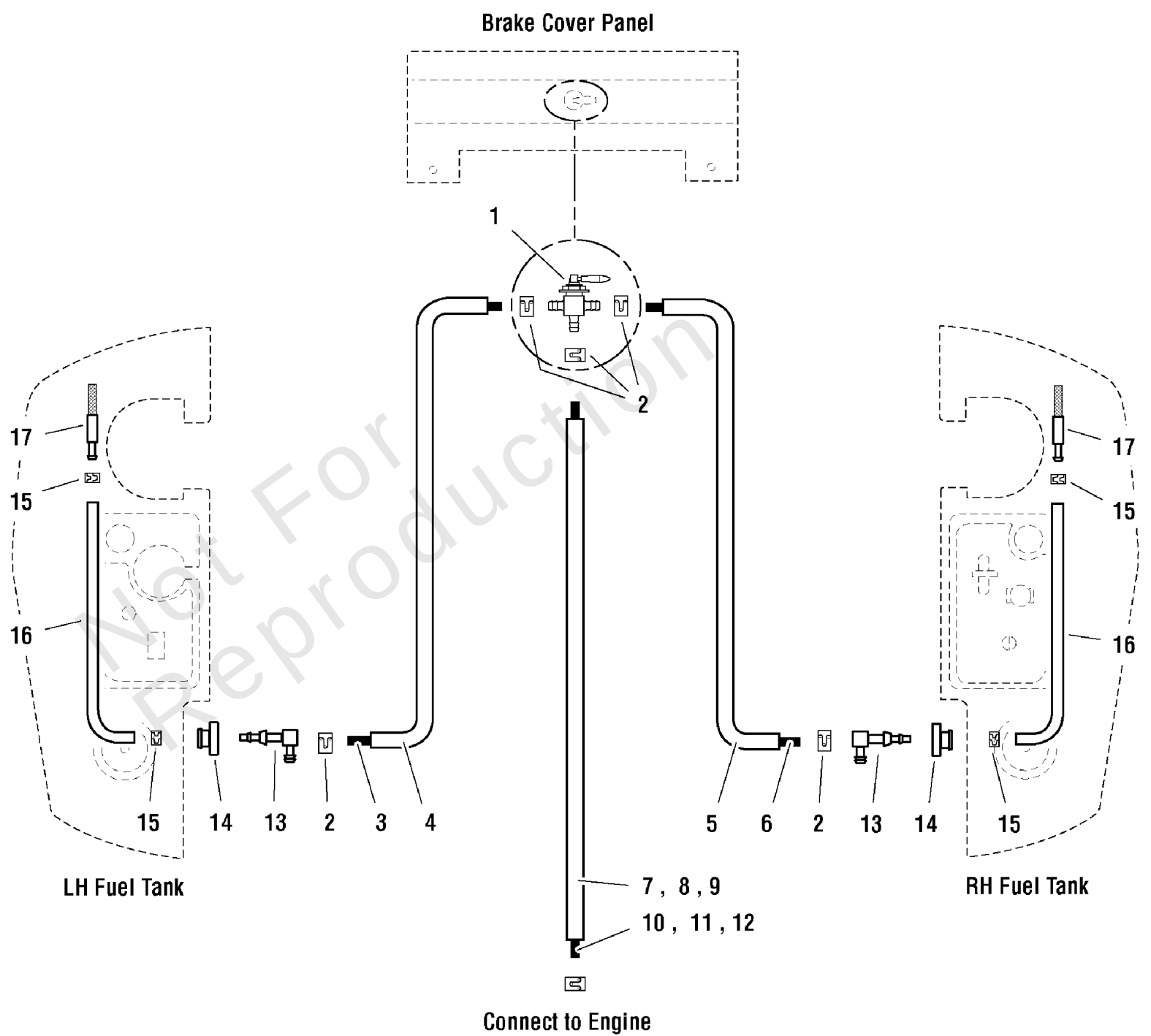
Floor & Brake Cover Group

REF NO	PART NO	QTY	DESCRIPTION
1	5025013X8	4	BOLT, 3/8-16 X 1" GD5 CZ
2	5025156	8	WASHER, 3/8 SAE
3	5023073	1	VALVE, Fuel Shut Off, 4-Way
4	5025128	4	NUT, 3/8-16 Hex Serrated Flange
5	5022308	2	BODY CLIP, 5/16-18-7GA MATERIAL
6	5025011X6	4	BOLT, 5/16-18 X 3/4 GD5
7	5025057	2	NUT, 5/16-18 Hex Nylon Lock
8	5045915	2	SAFETY WALK
9	5047773B	1	FLOOR PAN
10	5101113	1	SAFETY WALK, 11.50 X 19.00 -WAS 5044873
11	5021877	2	RUBBER PAD
12	5025155	2	WASHER, 5/16" SAE
13	61575	1	BRAKE COVER PANEL ASSEMBLY -(Includes decal)

Fuel Supply Hose & Tank Replacement Parts Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



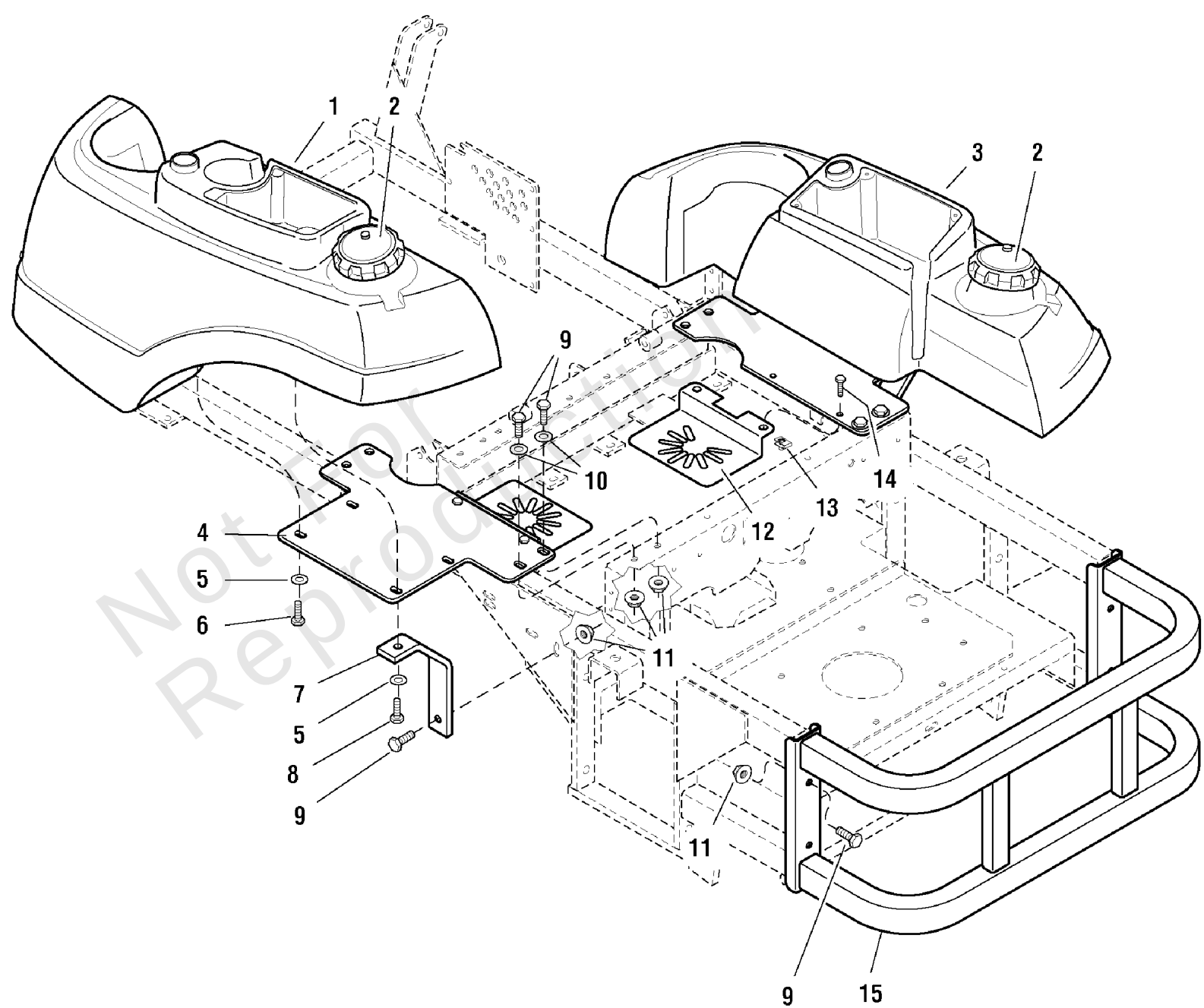
Fuel Supply Hose & Tank Replacement Parts Group

REF NO	PART NO	QTY	DESCRIPTION
1	5023358	1	VALVE, Fuel Shut Off
2	93807	6	CLAMP, Hose
3	5050831X52FS	1	HOSE, FUEL -(Cut to length)
4	5050833X48	1	WIRE LOOM, 48"
5	5050833X39	1	WIRE LOOM, 39"
6	5050831X41	1	1/4" Fuel Line, 41" Long
7	5050833X34	1	WIRE LOOM, 34" -(Kohler)
8	5050833X43	1	WIRE LOOM, 43" -(Kawasaki)
9	5050833X28	1	WIRE LOOM, 28" -(Kawasaki Liquid Cooled)
10	5050831X36	1	1/4" Fuel Line, 36" Long -(Kohler)
11	5050831X45	1	1/4" Fuel Line, 45" Long -(Kawasaki)
12	5050831X30	1	1/4" Fuel Line, 30" Long -(Kawasaki Liquid Cooled)
13	5023061	2	ELBOW FITTING
14	1726400	2	BUSHING-FUEL TANK RED RUBBER
15	-----	4	SEE HOSE ASSEMBLY
16	5101217	2	ASSM, FUEL HOSE, 20" -(Includes clamp & filter)
17	-----	2	SEE HOSE ASSEMBLY

Fuel Tank, Mount & Bumper Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



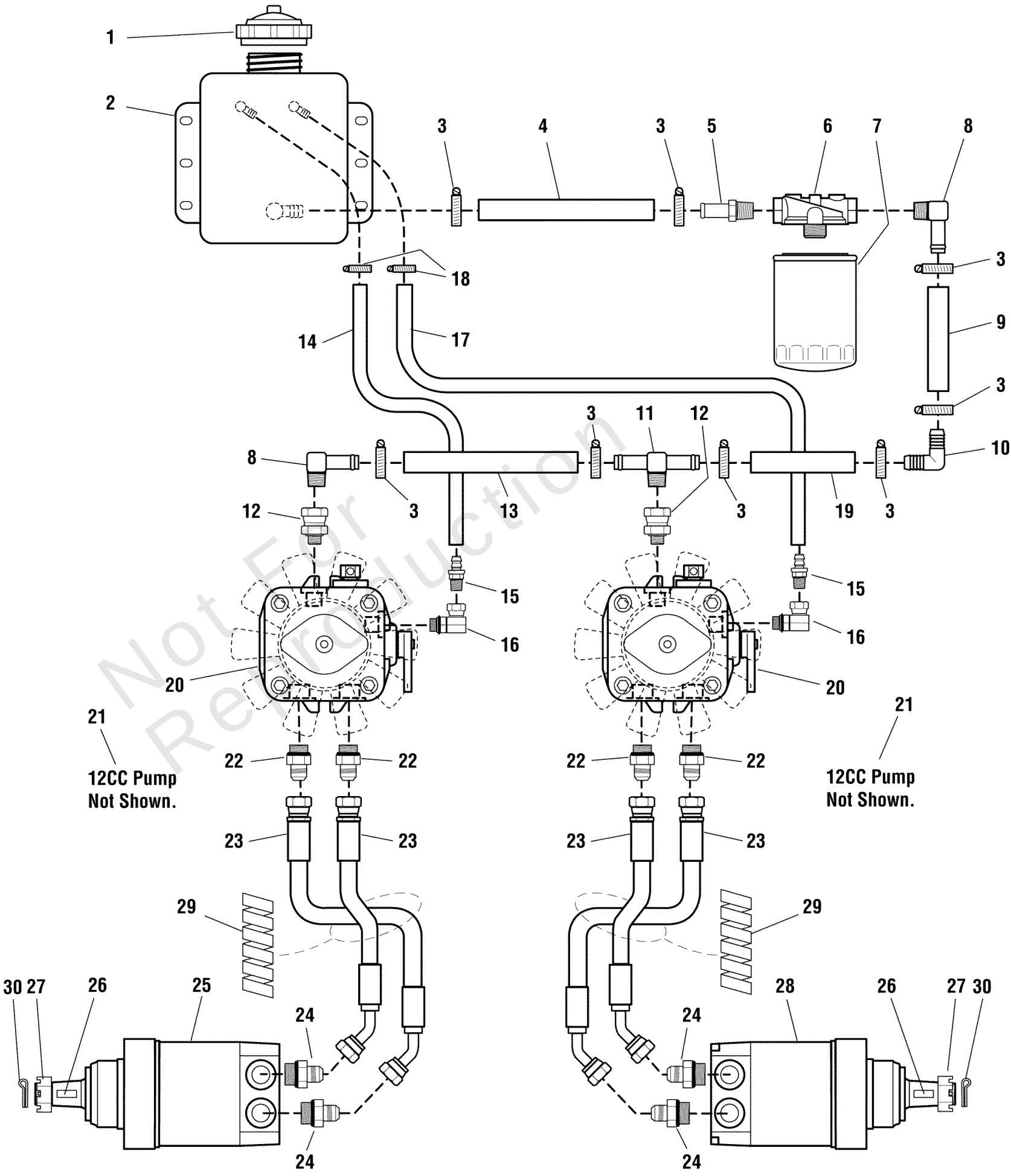
Fuel Tank, Mount & Bumper Group

REF NO	PART NO	QTY	DESCRIPTION
1	5049118	1	FUEL TANK, IS3000Z, LH
2	5022158	2	CAP, FUEL TANK, 3-1/2 NECK
3	5049119	1	FUEL TANK, IS3000Z, RH
4	5046250B	2	FUEL TANK MOUNT
5	5025155	8	WASHER, 5/16" SAE
6	5025011X6	6	BOLT, 5/16-18 X 3/4 GD5
7	5046436B	2	TANK MOUNT SUPPORT
8	5025011X10	2	BOLT, 5/16-18 x 1-1/4
9	5025013X8	10	BOLT, 3/8-16 X 1" GD5 CZ
10	5025156	4	WASHER, 3/8 SAE
11	5025128	10	NUT, 3/8-16 Hex Serrated Flange
12	5046472B	2	FAN SHIELD
13	5022665	4	BODY CLIP, 1/4-20
14	5025010X6	4	BOLT, 1/4-20 x 3/4
15	5045384B	1	BUMPER

Hydraulic Group

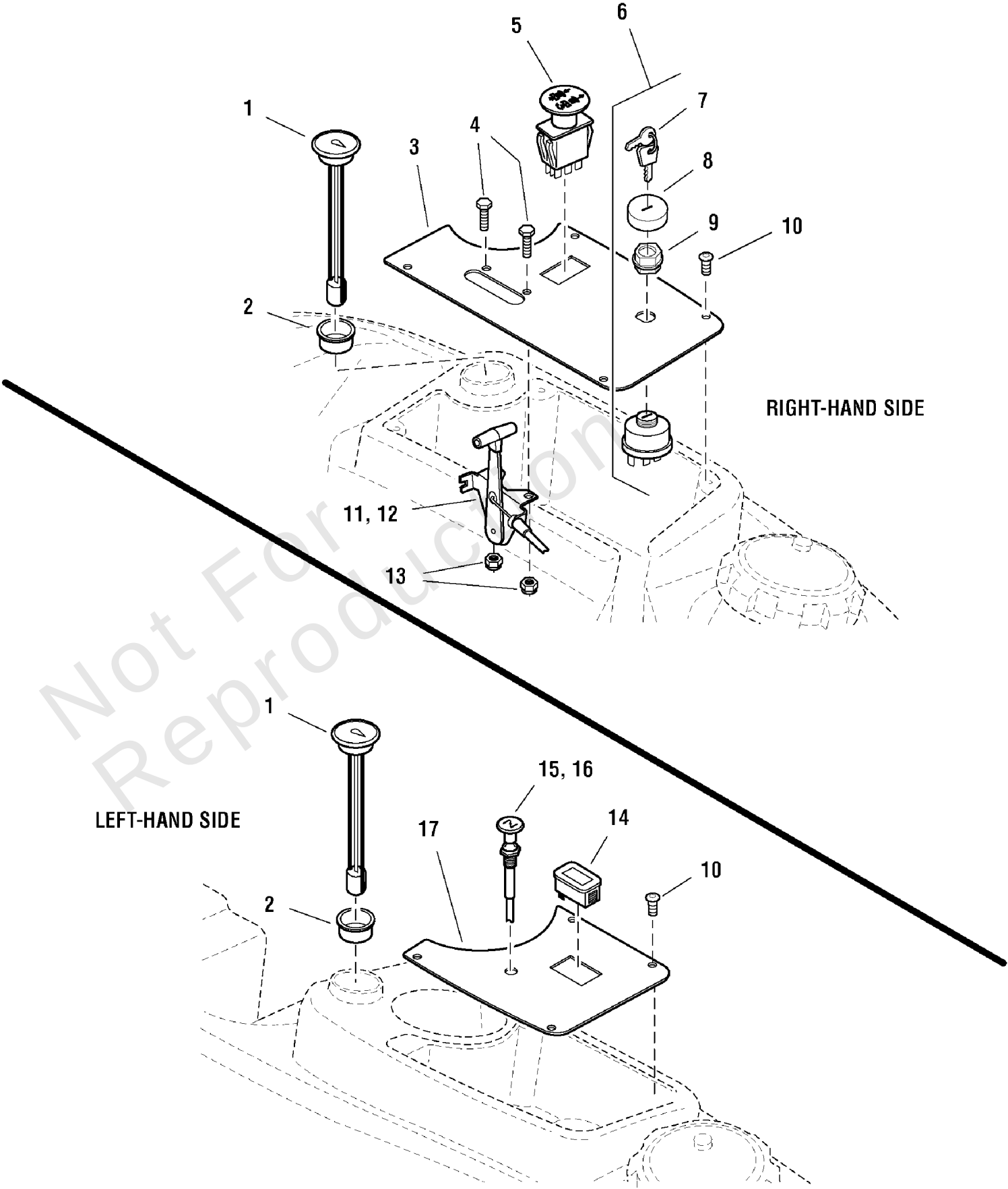
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



Hydraulic Group

REF NO	PART NO	QTY	DESCRIPTION
1	5023191	1	CAP, Hydraulic Oil Only
2	5600478	1	KIT, TANK HYDRAULIC, 3QT W/ FITTINGS
3	5021164	8	CLAMP, #10 Hose
4	5050933X11	1	HOSE, Hydraulic, 11"
5	5022635	1	FITTING, 1/2" NPT, Straight
6	5021356	1	FILTER HEAD
7	5021357X1	1	FILTER, HYDRAULIC, SERVICE PART (PKG)
8	5021233	2	FITTING, 1/2" NPT, 90 Deg.
9	5050933X3P5	1	HOSE, Hydraulic, 3-1/2"
10	5021395	1	FITTING, 5/8", 90 Deg.
11	5022364	1	FITTING, 1/2" NPT, Tee
12	5022365	2	FITTING, Straight Swivel
13	5050933X12	1	HOSE, Hydraulic, 12"
14	5050860X16	1	HOSE, Hydraulic, 16"
15	5022106	2	FITTING, 1/4" NPT, Straight
16	5022052	2	FITTING, 9/16 O-RING - 1/4 NPT, 90 DEG
17	5050860X24	1	HOSE, Hydraulic, 24"
18	5021392	2	CLAMP, #6 Hose
19	5050933X3	1	HOSE, Hydraulic, 3"
20	5022571	2	HYDRAULIC PUMP, 10CC, w/ FAN
21	5023431	2	HYDRAULIC PUMP, 12CC, w/ FAN -(Liquid Cooled Model, Not Shown)
22	5022633	4	FITTING, O-Ring Adapter
23	5102096	4	HOSE ASSEMBLY, (33)
24	5022634	4	FITTING, O-Ring Adapter
25	5022660L	1	HYDRAULIC WHEEL MOTOR-LEFT, Complete -(Includes Ref No. 26 & 27)
26	5022042X2	2	KEY
27	5022042X3	2	NUT, CASTLE, 1-20
28	5022660R	1	HYDRAULIC WHEEL MOTOR-RIGHT, Complete -(Includes Ref No. 26 & 27)
29	5050837X12	2	PROTECTIVE COIL, 12"
30	5025203X16	2	PIN, COTTER, 1/8" X 2"



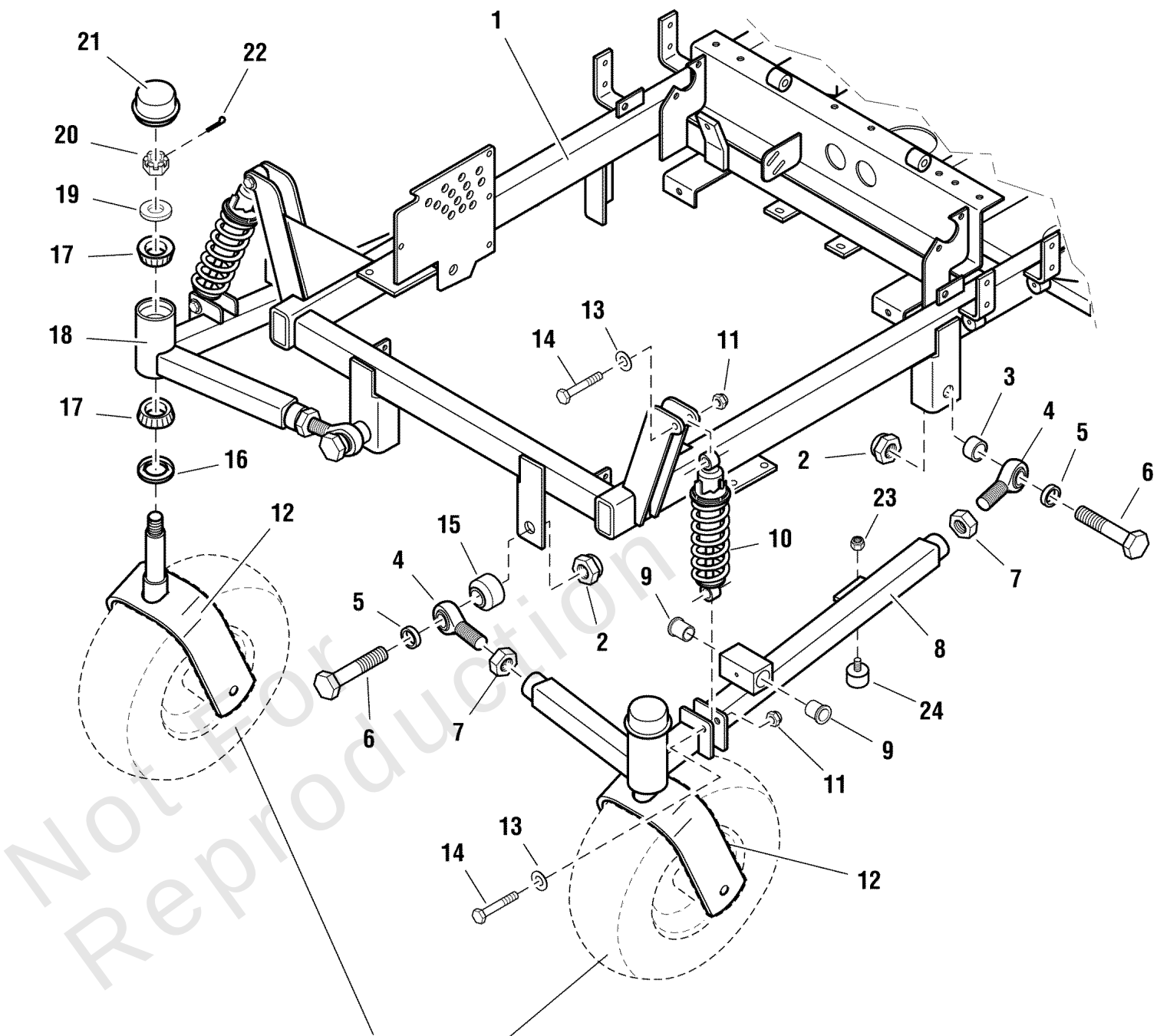
Instrument & Control Panel Group

REF NO	PART NO	QTY	DESCRIPTION
1	5022917	2	GAUGE, FUEL, 12
2	5022917X1	2	GROMMET
3	5049109A	1	CONTROL PANEL-RH
4	5025010X6	2	BOLT, 1/4-20 x 3/4
5	5022180	1	SWITCH, BLADE ENGAGEMENT
6	5020927	1	SWITCH, IGNITION, 6 POST -(Includes Ref No. 7 - 9)
7	5022789	1	KEY, IGNITION MOLDED SET
8	5022790	1	COVER, PLASTIC, SNAP ON
9	5022791	1	PLASTIC NUT
10	5025299X4	8	SCREW, Allen Head, 1/4-20 x 1/2
11	5020811	1	CABLE, Throttle, 38" -(Kohler)
12	5021887	1	CABLE, Throttle, 45" -(Kawasaki)
13	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
14	5102417	1	HOUR METER
15	5023239	1	CABLE, Choke Control, 39-1/2" -(Kohler)
16	5023238	1	CABLE, CHOKE CONTROL, 56 -(Kawasaki)
17	5049108A	1	CONTROL PANEL-LH

Main Frame & Front Suspension Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



See Wheels & Tires Group

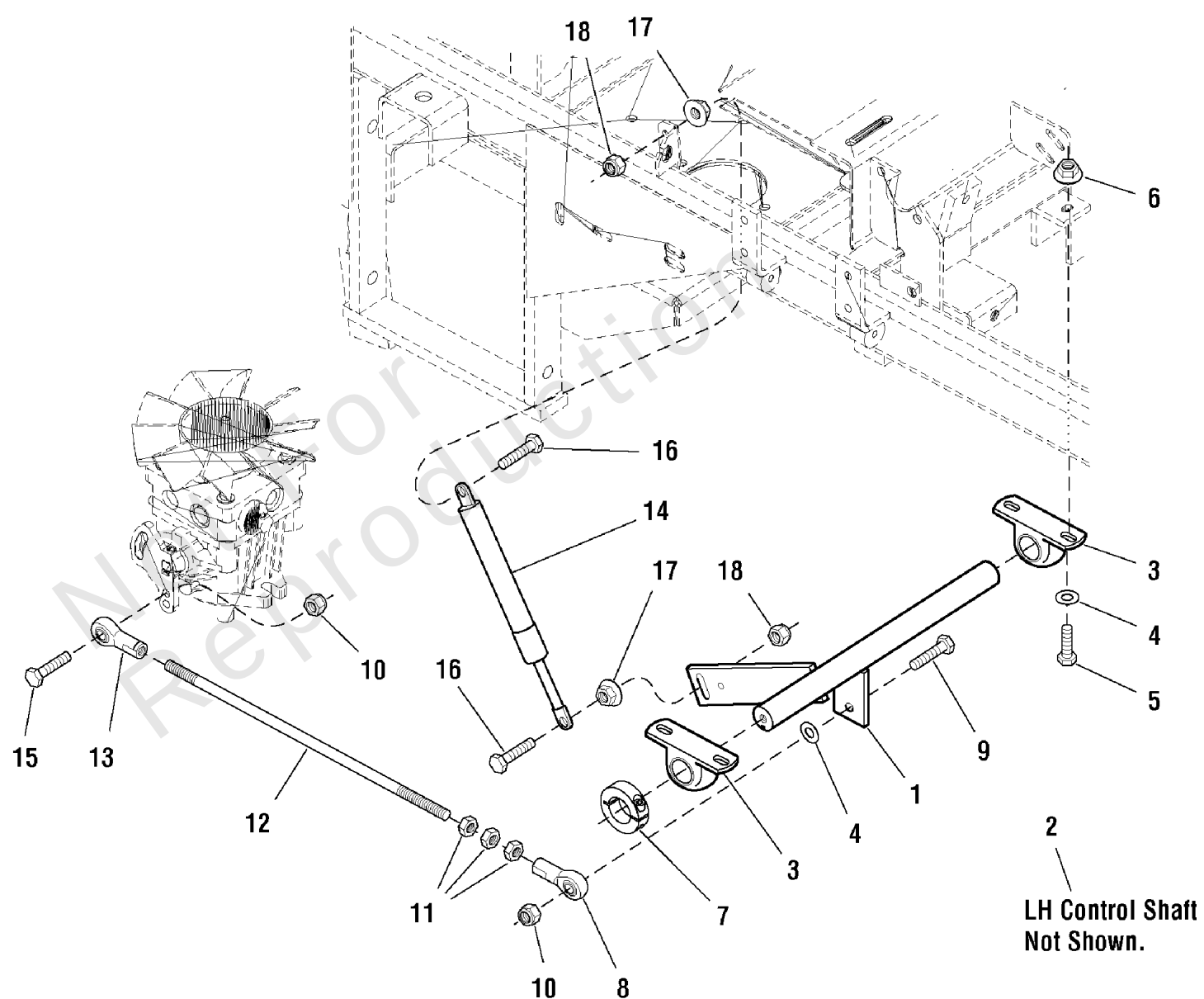
Main Frame & Front Suspension Group

REF NO	PART NO	QTY	DESCRIPTION
1	5061252B	1	MAIN FRAME
2	5025284	4	NUT, 3/4-16 Hex Nylon Lock
3	5046092	4	SPACER, .76 x 1.00 x .50
4	5022039	4	BALL JOINT, 3/4-16 Male
5	5047461	4	SPACER, .76 x 1.00 x .25
6	5025265X28	4	BOLT, 3/4-16 x 3-1/2
7	5025093	4	NUT, 3/4-16 Hex Jam
8	5047743	1	ASSM, A-ARM, LH -(Includes Ref No. 9)
9	5023343	4	BUSHING, Flange -(Qty. (2) per suspension arm)
10	5022842	2	SHOCK & SPRING ASSEMBLY
11	5025096	4	NUT, 3/8-16 HEX NYLON LOCK
12	5045769B	2	CASTER TIRE MOUNT
13	5025156	4	WASHER, 3/8 SAE
14	5025013X18	2	BOLT, 3/8-16 X 2-1/4" GD5 CZ
15	5046093	2	SPACER, .75 x 1.50 x 1.00
16	5021072	2	SEAL, GREASE
17	5020884	4	BEARING, Tapered Roller
18	5047742	1	SUSPENSION ARM ASSEMBLY - RH -(Includes Ref No. 9)
19	5025160	2	WASHER, 3/4 SAE
20	5025104	2	NUT, 3/4-16 Hex Slotted
21	5021073	2	CAP
22	5025203X10	2	PIN, COTTER, 1/8 X 1-1/4
23	5025095	2	NUT, 1/4-20 HEX NYLON LOCK
24	5022673	2	RUBBER BUMPER

Motion Control Group - Lower

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



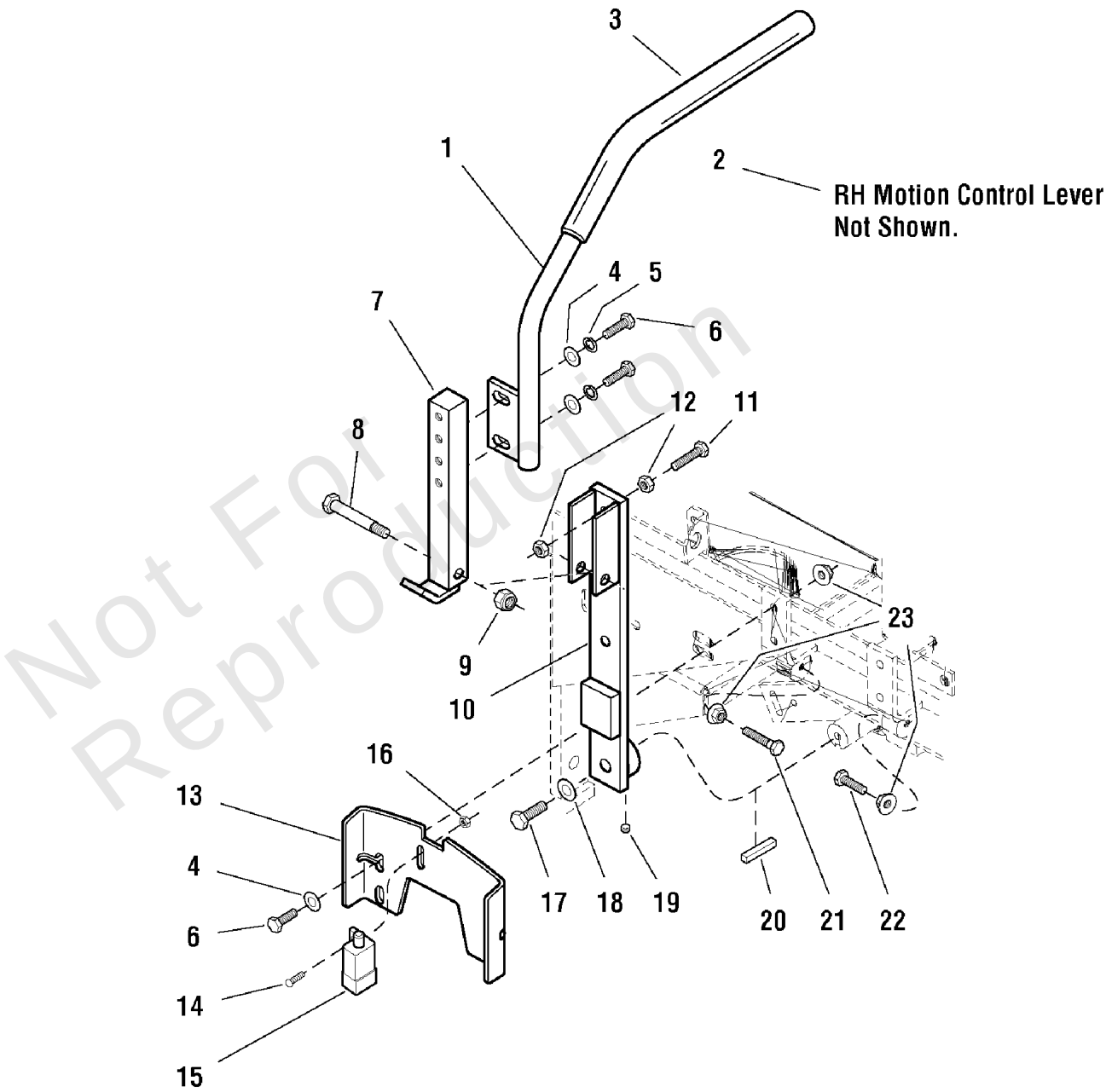
Motion Control Group - Lower

REF NO	PART NO	QTY	DESCRIPTION
1	5046405B	1	CONTROL SHAFT-RH
2	5046404B	1	CONTROL SHAFT-LH -(Not Shown)
3	5022630	4	BEARING, Pillow Block
4	5025155	10	WASHER, 5/16" SAE
5	5025011X8	8	BOLT, 5/16-18 X 1 GD5 YZ
6	5025127	8	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
7	5020602	2	COLLAR, 1" Split
8	5104493	2	BALL JOINT 5/16-24 RH FEMALE BRONZE RACE
9	5025011X10	2	BOLT, 5/16-18 x 1-1/4
10	5025057	4	NUT, 5/16-18 Hex Nylon Lock
11	5025033	6	NUT, 5/16-24 Hex
12	5046420	2	HYDRO LINKAGE ROD
13	5104494	2	BALL JOINT 5/16-24 LH FEMALE BRONZE RACE
14	5022978	2	DAMPENER
15	5025011X9	2	BOLT, 5/16-18 x 1-1/8
16	5025335	4	BOLT, M8 x 35MM
17	5025355	4	NUT, M8-1.25 Hex Serrated Flange
18	5025354	4	NUT, M8-1.25 Hex Nylon Lock

Motion Control Group - Upper (S/N: 4912 & below)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



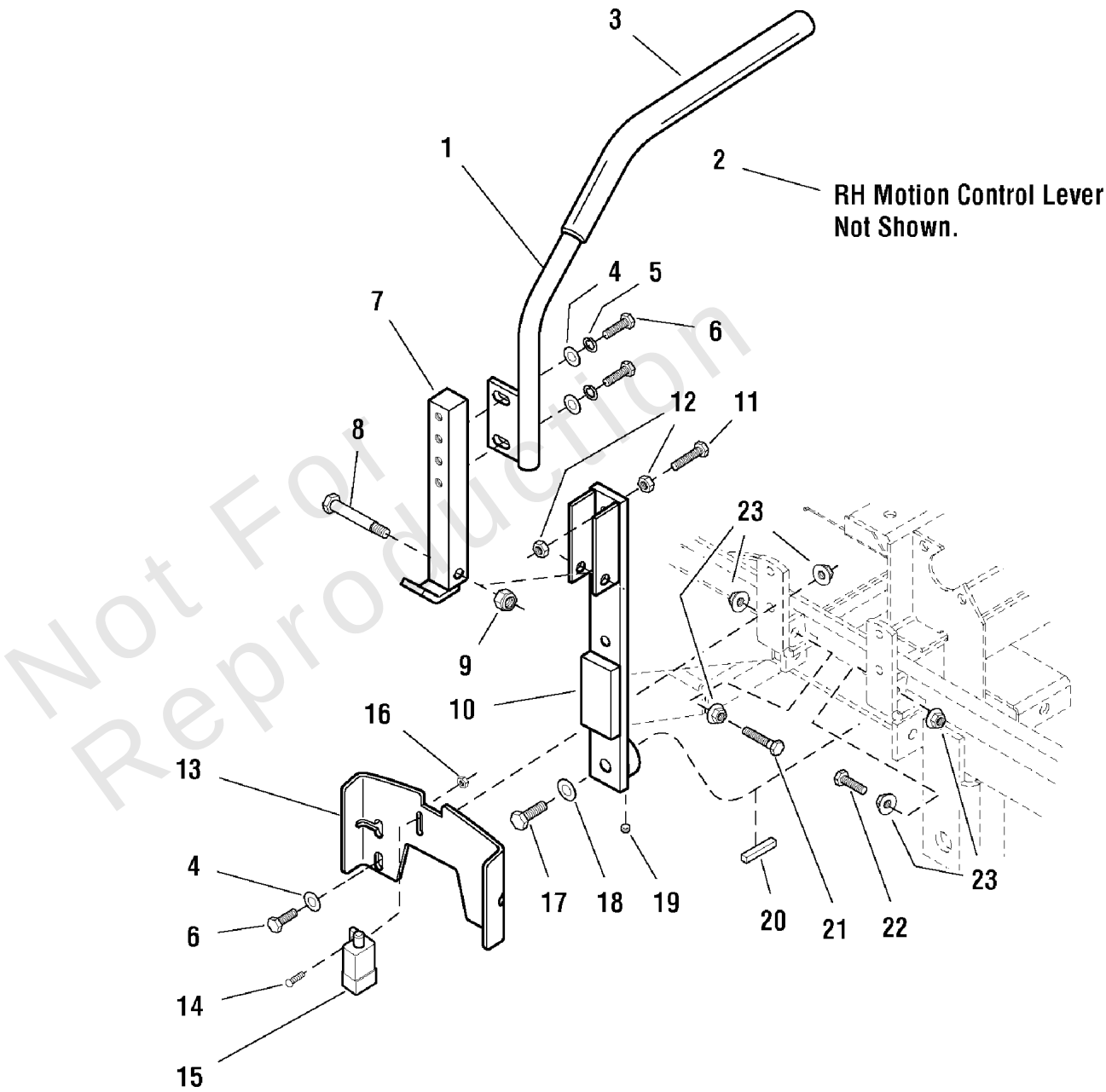
Motion Control Group - Upper (S/N: 4912 & below)

REF NO	PART NO	QTY	DESCRIPTION
1	5045913B	1	MOTION CONTROL LEVER-RH
2	5045912B	1	MOTION CONTROL LEVER-LH -(Not Shown)
3	5022068	2	GRIP, Foam
4	5025155	12	WASHER, 5/16" SAE
5	5025170	4	WASHER, 5/16 LOCK CZ
6	5025011X6	12	BOLT, 5/16-18 X 3/4 GD5
7	5049382B	2	WELD, CONTROL HANDLE BASE
8	5025013X16	2	BOLT, 3/8-16 X 2, GD5, CZ
9	5025096	2	NUT, 3/8-16 HEX NYLON LOCK
10	5414877B	2	WELD, CONTROL LEVER, 2" BLOCK
11	5025011X8	2	BOLT, 5/16-18 X 1 GD5 YZ
12	5025032	4	NUT, 5/16-18 HEX
13	5045902B	2	NEUTRAL LOCK PLATE
14	5025270	4	SCREW, #10-24 X 1 RS, CZ
15	-----	2	SWITCH (see electrical group)
16	25029	4	NUT, #10-24 Hex
17	5025323	2	BOLT, 3/8-16 x 1-1/4 w/ patch
18	5025156	2	WASHER, 3/8 SAE
19	5025278X2	2	SET SCREW, 5/16-18 x 1/4 w/ patch
20	5050407X1	2	KEY, 1/4 SQ. X 1
21	5025011X14	2	BOLT, 5/16-18 x 1-3/4
22	5025011X10	2	BOLT, 5/16-18 x 1-1/4
23	5025127	12	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)

Motion Control Group - Upper (S/N: 4913 & above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



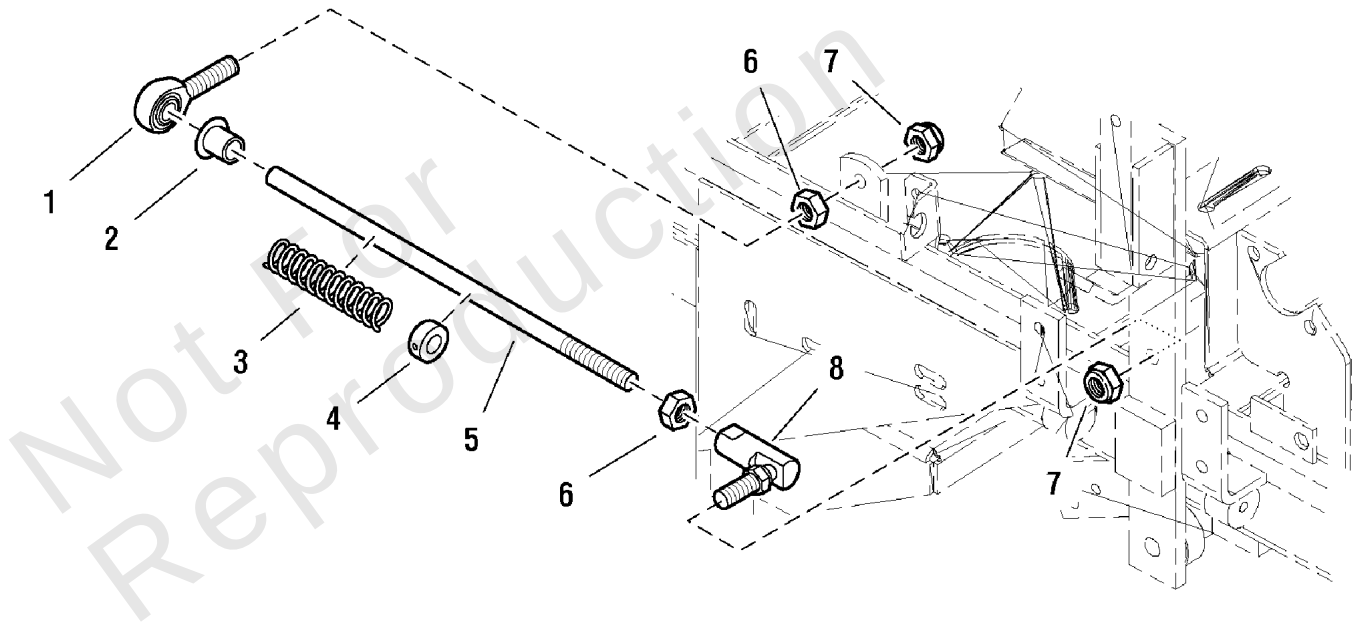
Motion Control Group - Upper (S/N: 4913 & above)

REF NO	PART NO	QTY	DESCRIPTION
1	5045913B	1	MOTION CONTROL LEVER-RH
2	5045912B	1	MOTION CONTROL LEVER-LH -(Not Shown)
3	5022068	2	GRIP, Foam
4	5025155	12	WASHER, 5/16" SAE
5	5025170	4	WASHER, 5/16 LOCK CZ
6	5025011X6	12	BOLT, 5/16-18 X 3/4 GD5
7	5049382B	2	WELD, CONTROL HANDLE BASE
8	5025013X16	2	BOLT, 3/8-16 X 2, GD5, CZ
9	5025096	2	NUT, 3/8-16 HEX NYLON LOCK
10	5046409B	2	CONTROL LEVER MOUNT
11	5025011X8	2	BOLT, 5/16-18 X 1 GD5 YZ
12	5025032	4	NUT, 5/16-18 HEX
13	5061842B	2	NEUTRAL LOCK PLATE
14	5025270	4	SCREW, #10-24 X 1 RS, CZ
15	-----	2	SWITCH (see electrical group)
16	25029	4	NUT, #10-24 Hex
17	5025323	2	BOLT, 3/8-16 x 1-1/4 w/ patch
18	5025156	2	WASHER, 3/8 SAE
19	5025278X2	2	SET SCREW, 5/16-18 x 1/4 w/ patch
20	5050407X1	2	KEY, 1/4 SQ. X 1
21	5025011X14	2	BOLT, 5/16-18 x 1-3/4
22	5025011X10	2	BOLT, 5/16-18 x 1-1/4
23	5025127	16	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)

Neutral Return Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



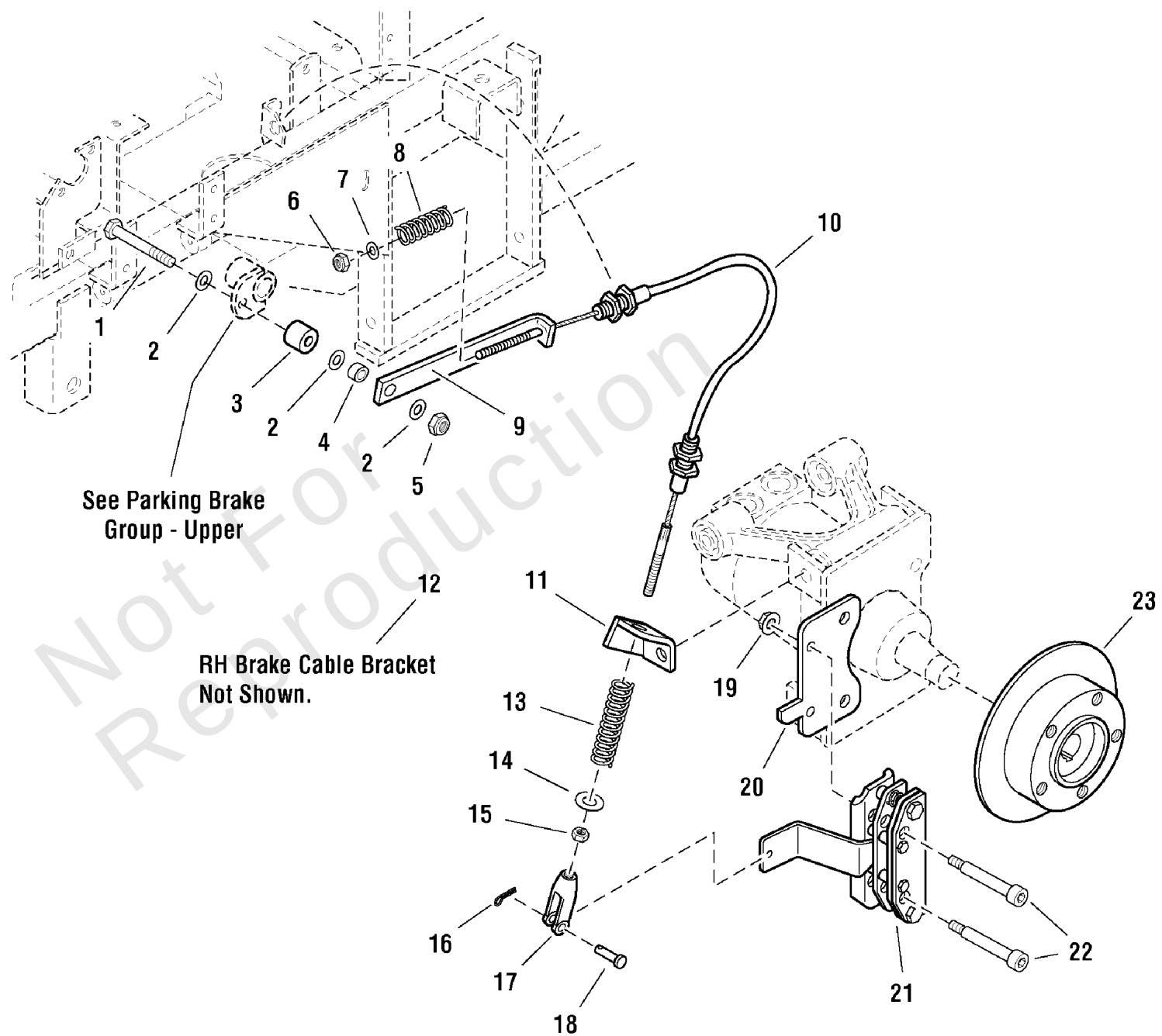
Neutral Return Group

REF NO	PART NO	QTY	DESCRIPTION
1	5021124	2	BALL JOINT, 3/8-24 Male
2	5023260	2	BUSHING
3	5022645	2	SPRING, Compression
4	5010546	2	COLLAR, 3/8" Set
5	5049232	2	NEUTRAL CONTROL ROD
6	5025035SM	4	NUT (3/8-24 HEX)
7	5025097	4	NUT, 3/8-24 Hex Nylon Lock
8	5020805	2	BALL JOINT, 3/8" Female Studded

Parking Brake Group-Lower

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



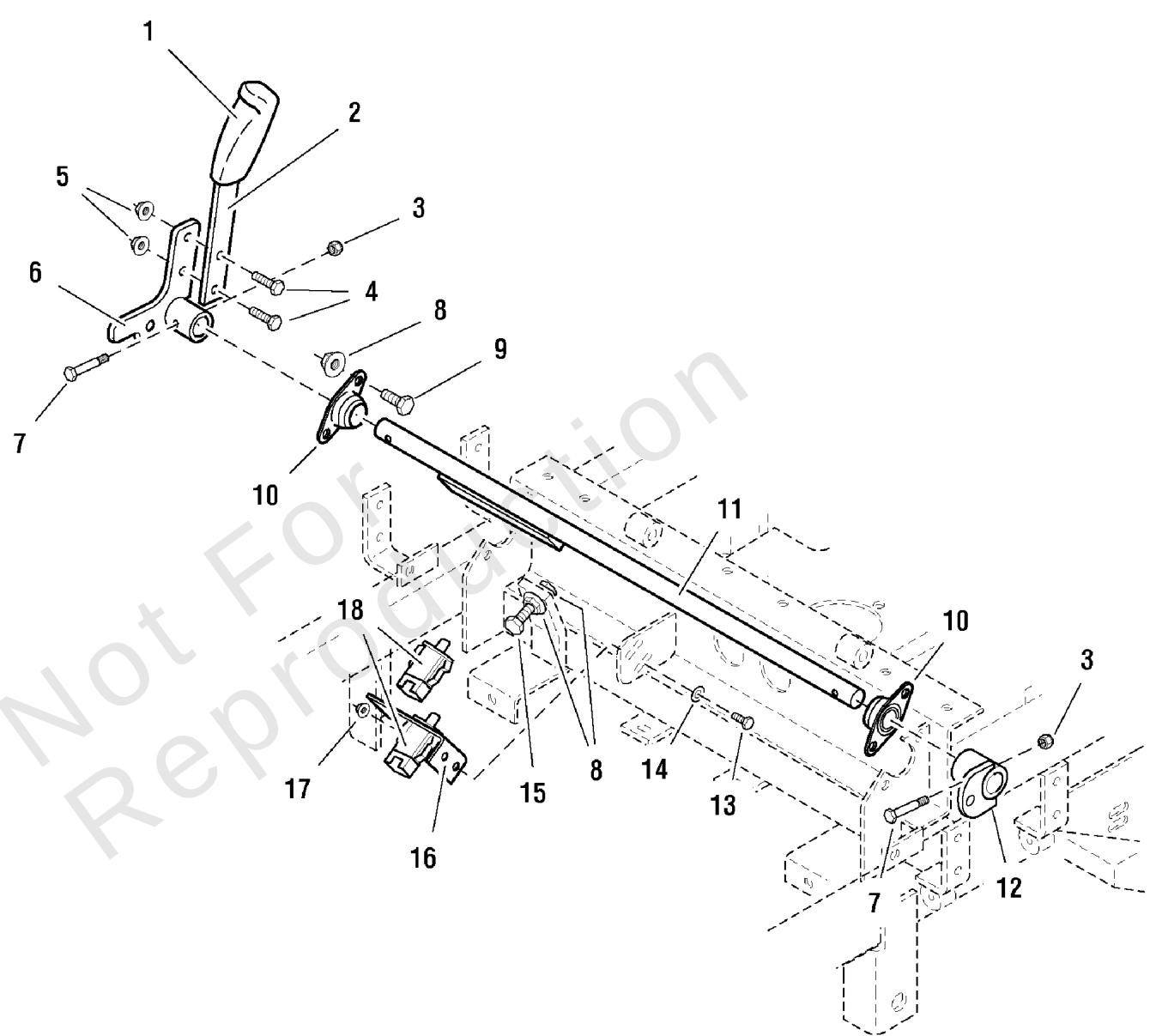
Parking Brake Group-Lower

REF NO	PART NO	QTY	DESCRIPTION
1	5025013X18	2	BOLT, 3/8-16 X 2-1/4" GD5 CZ
2	5025156	6	WASHER, 3/8 SAE
3	5047125	2	SPACER, .39 x 1.00 x .88
4	5041930	2	SPACER, .38 x .50 x .27
5	5025096	2	NUT, 3/8-16 HEX NYLON LOCK
6	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
7	5025155	2	WASHER, 5/16" SAE
8	5022361	2	SPRING, Compression
9	5045633B	2	LINK, Brake Lock
10	5023324	2	CABLE, Brake
11	5061405B	1	BRACKET, Brake Cable -LH
12	5061404B	1	BRACKET, Brake Cable -RH -(Not Shown)
13	5023320	2	SPRING, Compression
14	5025164	2	WASHER, 5/16" Fender
15	5025033	6	NUT, 5/16-24 Hex
16	5025203X10	2	PIN, COTTER, 1/8 X 1-1/4
17	5023323	2	CLEVIS, 5/16-24, STEEL, CLEAR ZINC
18	5025213X8	2	CLEVIS PIN, 5/16 x 1
19	5025128	4	NUT, 3/8-16 Hex Serrated Flange
20	5049391A	2	BRAKE CALIPER MOUNT
21	5023299	2	BRAKE CALIPER
22	25400	4	SHOULDER BOLT, 1/2" x 2-3/4"
23	5100775	2	WHEEL HUB, COMPACT CALIPER (86720)

Parking Brake Group-Upper

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



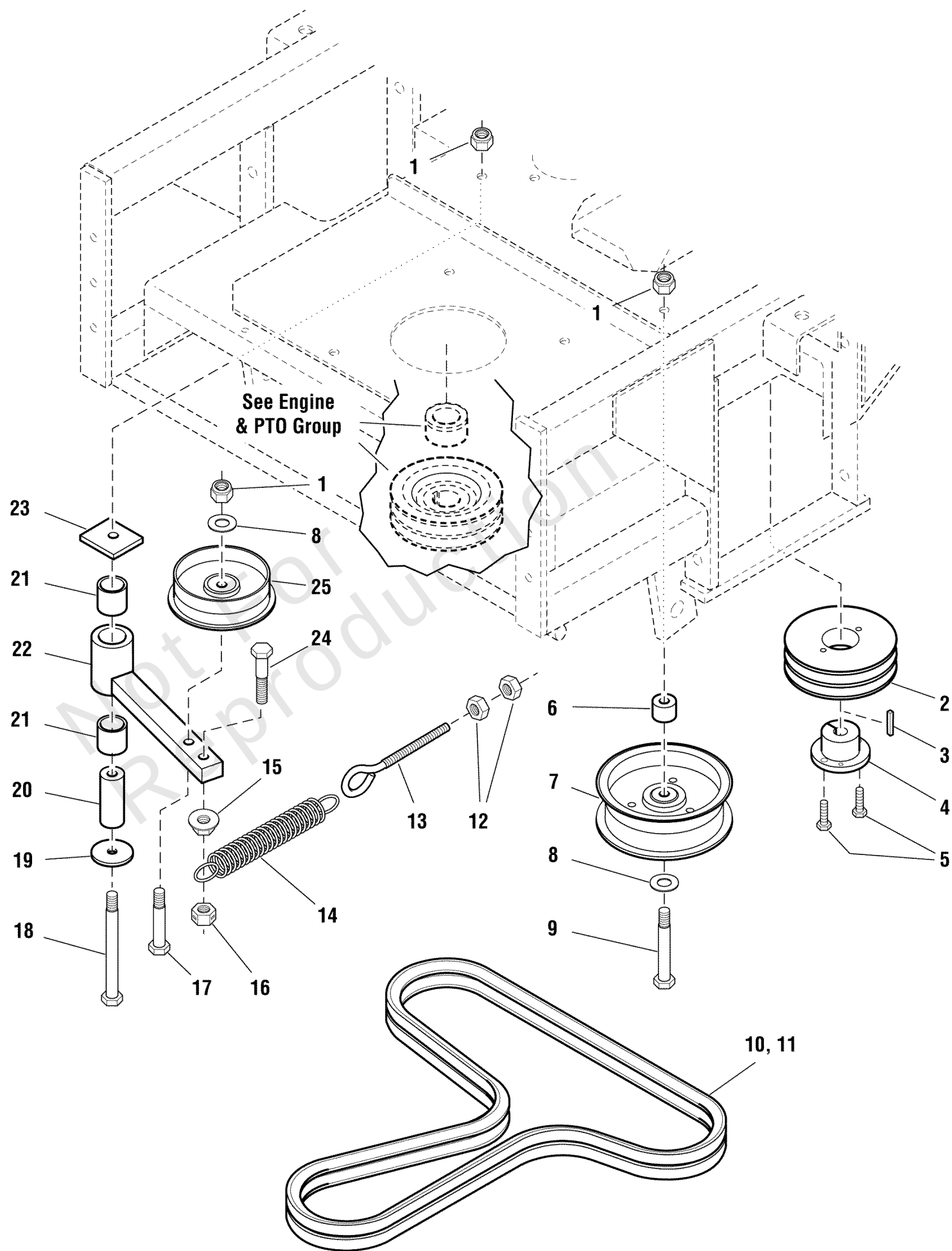
Parking Brake Group-Upper

REF NO	PART NO	QTY	DESCRIPTION
1	1722302	1	GRIP
2	5045619B	1	BRAKE HANDLE
3	5025095	2	NUT, 1/4-20 HEX NYLON LOCK
4	5025011X8	2	BOLT, 5/16-18 X 1 GD5 YZ
5	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
6	5045616B	1	BRAKE HANDLE MOUNT
7	5025010X14	2	BOLT, 1/4-20 x 1-3/4
8	5025128	6	NUT, 3/8-16 Hex Serrated Flange
9	5025013X6	4	BOLT, 3/8-16 X 3/4" GD5 CZ
10	5021098	2	BEARING, Flange
11	5045610B	1	BRAKE HANDLE SHAFT
12	5045618A	1	PIVOT, LINKAGE MOUNT WELDMENT - BLK
13	5025010X6	2	BOLT, 1/4-20 x 3/4
14	5025154	2	WASHER, 1/4 SAE
15	5025058X14	1	BOLT, 3/8-16 x 1-3/4 TFL
16	5045621B	1	SWITCH MOUNT BRACKET
17	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
18	-----	*	SWITCH (see electrical group)

Pump Drive Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



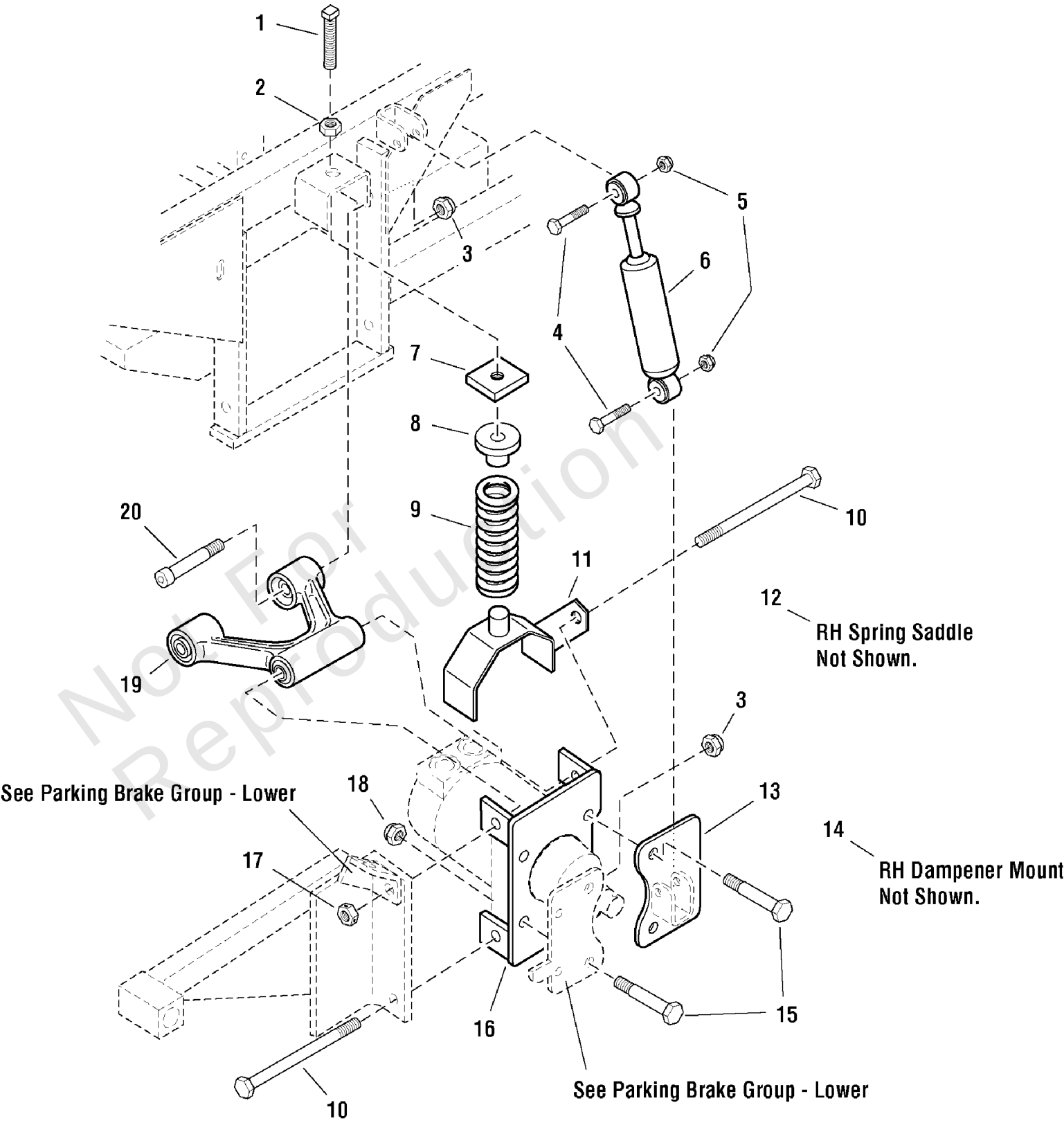
Pump Drive Group

REF NO	PART NO	QTY	DESCRIPTION
1	5025096	3	NUT, 3/8-16 HEX NYLON LOCK
2	5022586	2	PULLEY, Pump Drive
3	5023254	2	KEY, 5MM SQ. x 25MM w/ Round Ends
4	5022587	2	BUSHING, Tapered Hub
5	5025010X8	4	BOLT, 1/4-20 X 1" GD5 CZ
6	5046446	1	SPACER, .39 x 1.00 x .79
7	5022620	1	PULLEY, Idler
8	5025156	2	WASHER, 3/8 SAE
9	5025013X22	1	BOLT, 3/8-16 X 2-3/4" GD5 CZ
10	5022314	1	BELT, Pump Drive (set of 2)
11	5061501	1	BELT, Pump Drive, Liquid Cooled Model (Set)
12	5025034	2	NUT, 3/8-16 Hex
13	5023497	1	EYE BOLT, 3/8-16 X 5, 2.88THRD, 1EYE, CZ
13	5021812	1	EYEBOLT, 3/8-16 x 6" -(Liquid Cooled model only)
14	5022847	1	SPRING, Extension, Swivel End
15	5025128	1	NUT, 3/8-16 Hex Serrated Flange
16	5025100	1	NUT, 3/8-16 Hex Side Lock
17	5025013X18	1	BOLT, 3/8-16 X 2-1/4" GD5 CZ
18	5025013X32	1	BOLT, 3/8-16 X 4" GD5 CZ
19	5025305	1	WASHER, 3/8 x 1-3/4
20	5102004	1	SPACER, .39 X 1.00 X 2.55, SS
21	5022157	2	BUSHING, Brass
22	5046430A	1	WELD, ARM, PUMP DRIVE IDLER - BLK
23	5045090	1	SPACER, Idler Pivot
24	5025013X14	1	BOLT, 3/8-16 X 1-3/4" GD5 CZ
25	5103808	1	PULLEY, Idler (Single Flange)

Rear Suspension Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



Rear Suspension Group

REF NO	PART NO	QTY	DESCRIPTION
1	5025298	2	SET SCREW, Square Head, 1/2-13 x 3
2	5025301	2	NUT, Hex, Jam, 1/2-13
3	5025056	10	NUT, 1/2-13 HEX NYLON LOCK
4	5025013X16	4	BOLT, 3/8-16 X 2, GD5, CZ
5	5025096	4	NUT, 3/8-16 HEX NYLON LOCK
6	5600269	2	KIT, SHOCK W/OUT COIL
7	5045904	2	SPRING COMPRESSION PLATE
8	5045898	2	SPRING RETAINER
9	5061182	2	SPRING, Compression
10	5025017X52	4	BOLT, HEX, 1/2-13 X 6-1/2, GD 8, YZ
11	5045601B	1	SPRING SADDLE-LH
12	5045602B	1	SPRING SADDLE-RH -(Not Shown)
13	5061396B	1	DAMPENER MOUNT - LH
14	5061397B	1	DAMPENER MOUNT - RH -(Not Shown)
15	5025018X24	8	BOLT, 1/2-20 X 3" GD5 YZ
16	5045588B	2	WHEEL MOTOR MOUNT
17	5025332	2	NUT, 1/2-13 Hex Side Lock
18	5025098	8	NUT, Hex, Nylon Lock, 1/2-20
19	5101617	4	ASSM, A-ARM WITH BEARINGS -(Number Side Should Face Up)(*See Footnote)
20	5025294	8	SET SCREW, Square Hd, 1/2-13 x 3

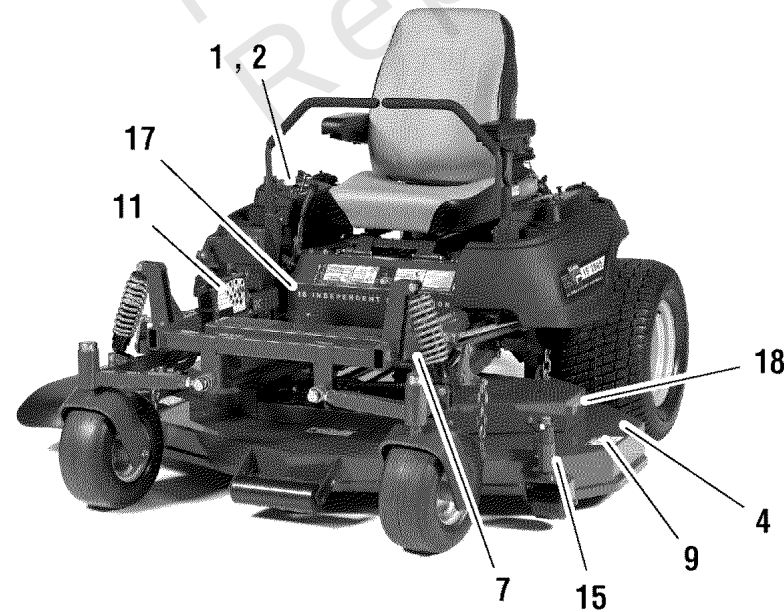
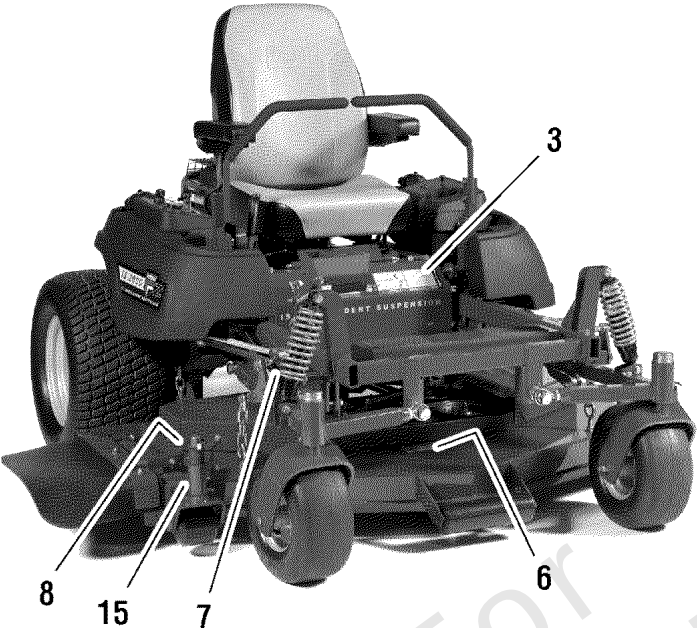
Footnotes:

* When updating cast a-arms from rubber bushing styles to the bearing styles please order kit# 5600321.

Replacement Decals

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



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- 17 **IS INDEPENDENT SUSPENSION**
- 18 **61"**

Replacement Decals

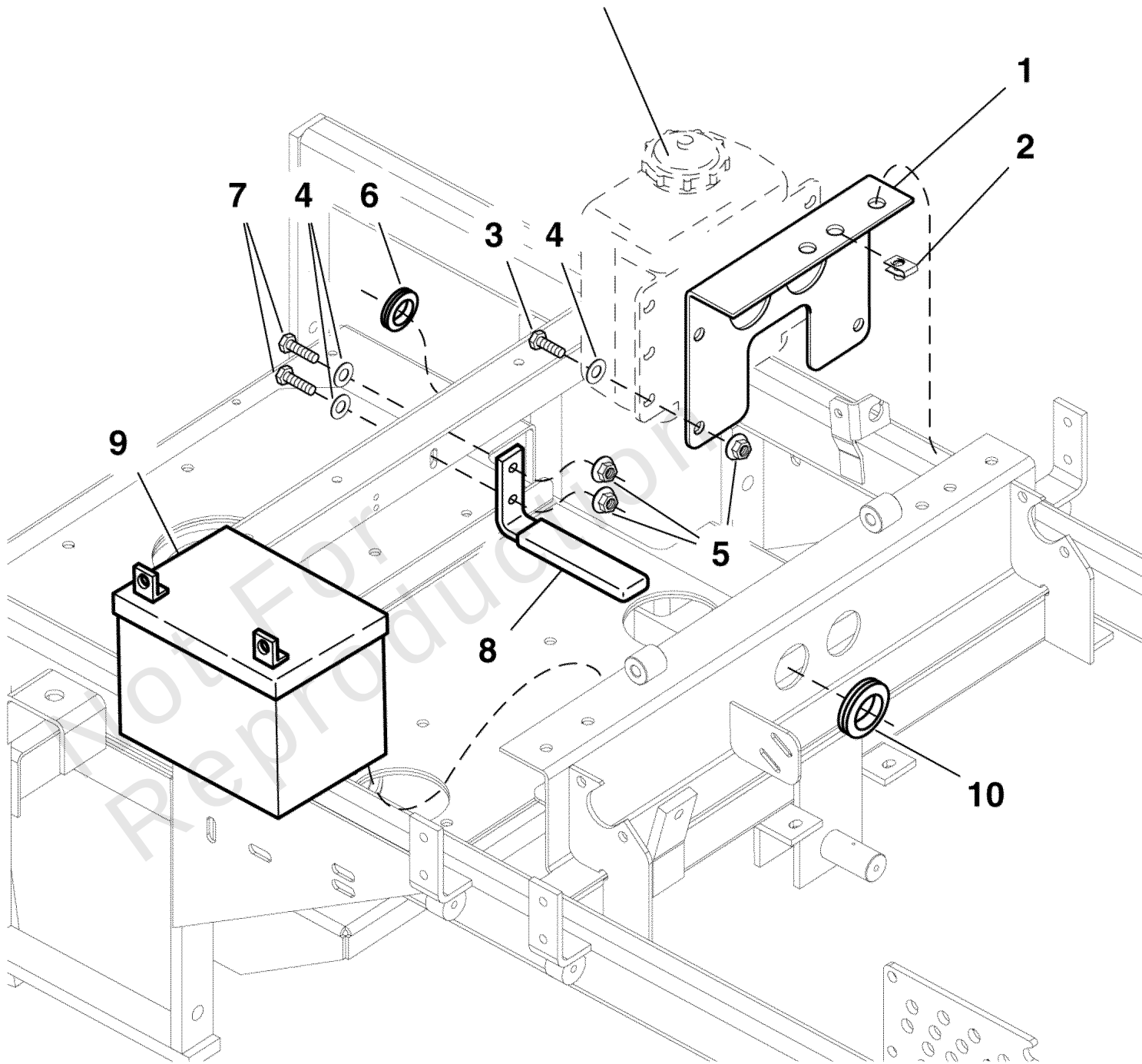
REF NO	PART NO	QTY	DESCRIPTION
1	5049199	1	DECAL, Control Panel
2	5061500	1	DECAL, Control Panel -(Liquid Cooled Model)
3	5061105	1	DECAL, Main w/ Fuel
4	5049658	1	DECAL, Danger
5	5022143	2	DECAL, Danger, Rotating
6	5103184	1	DECAL, Warning
7	5061245	2	DECAL, Pinch Point
8	1704277	1	DECAL, Danger (Chute In Place)
9	1704276	1	DECAL, Danger (Hand Under Deck)
10	5046481	1	DECAL, Caution Fan
11	5022063	1	DECAL, Deck Height
12	5045562	1	DECAL, Hydro Release Valve
13	5045923	1	DECAL, Oil Reservoir
14	5045911	1	DECAL, Max. Oil Level
15	5021036	2	DECAL, Grease Daily
16	5046503	1	DECAL, Fuse Location
17	5022555	1	DECAL, IS Independent Suspension
18	5022813	1	DECAL, 61"

Reservoir Mount & Battery Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060

**See Hydraulic Group for
Hydraulic Components**



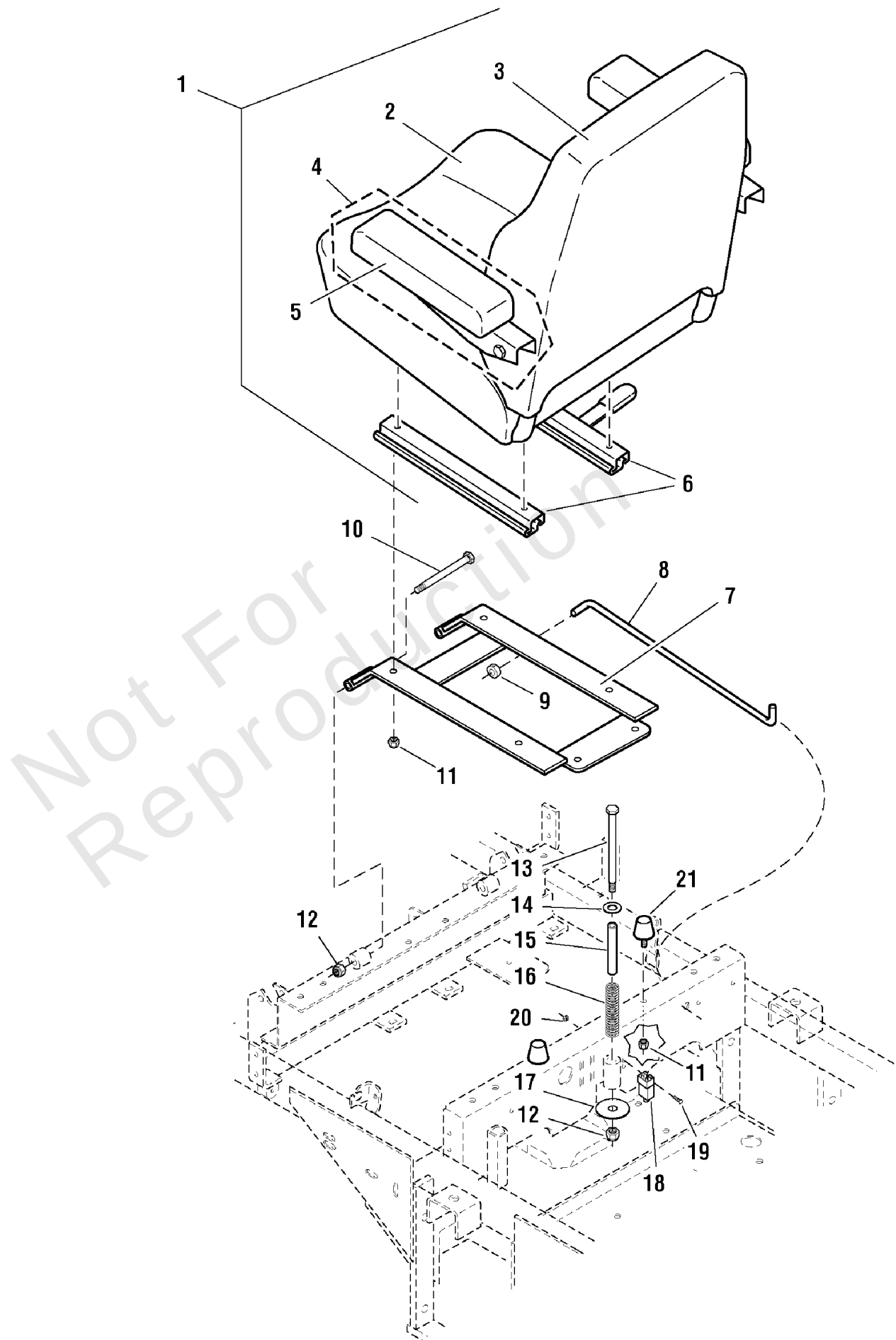
Reservoir Mount & Battery Group

REF NO	PART NO	QTY	DESCRIPTION
1	5046397B	1	MOUNT, Reservoir
2	5022649	3	BODY CLIP, 3/8-16
3	5025011X6	4	BOLT, 5/16-18 X 3/4 GD5
4	5025155	6	WASHER, 5/16" SAE
5	5025127	6	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
6	5021379	1	GROMMET, 7/8"
7	5025011X8	2	BOLT, 5/16-18 X 1 GD5 YZ
8	5401409	1	ASSM, BATTERY RETAINER
9	-----	1	BATTERY, Lawn & Garden, 12V (BCIU1, 340 CCA)
10	5023183	1	GROMMET, 3"

Seat & Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901060



Seat & Mount Group

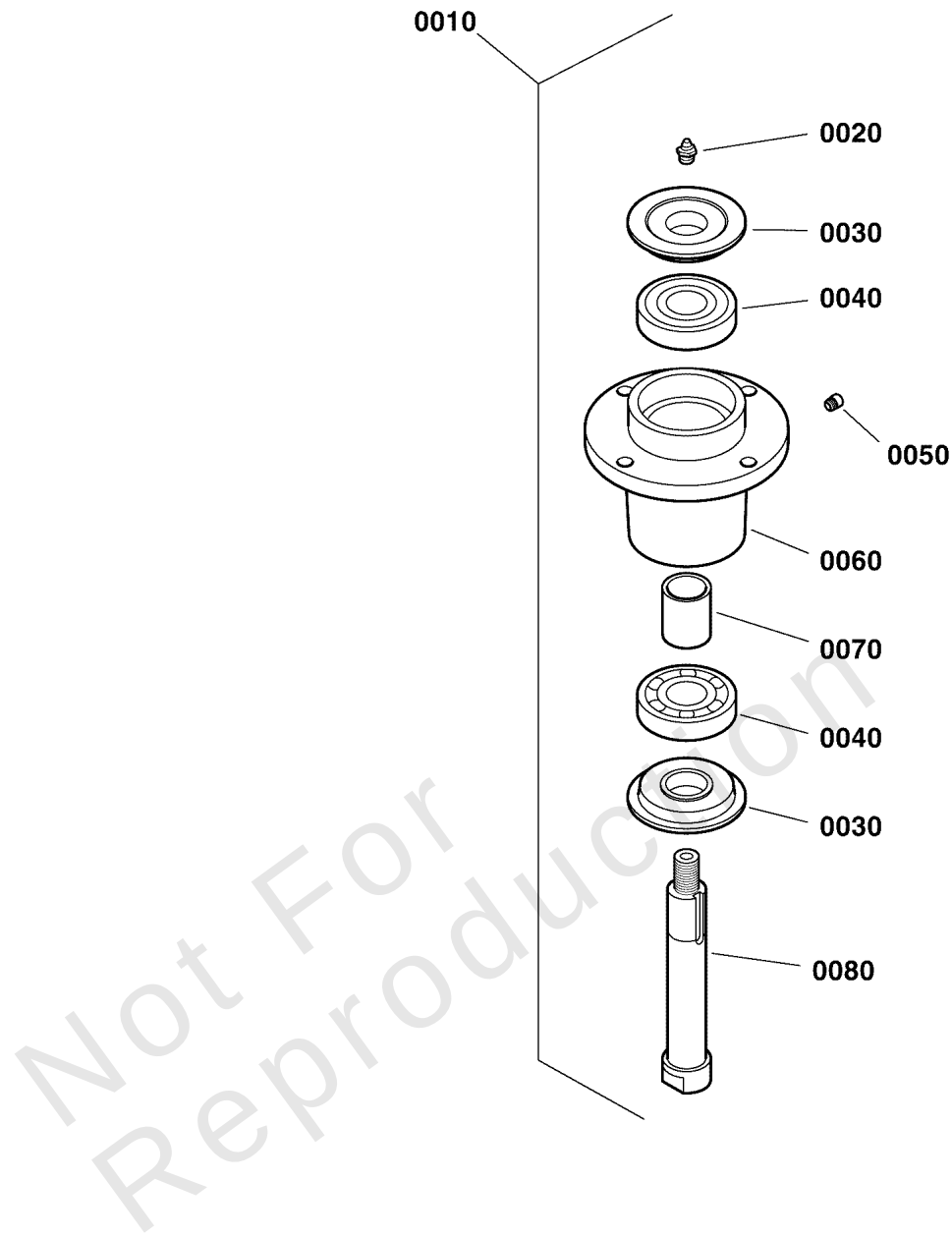
REF NO	PART NO	QTY	DESCRIPTION
1	5022955	1	SEAT, Deluxe, Gray, Complete -(Includes Ref No. 2 - 6)
2	5022955X1	1	SEAT Bottom Cover
3	5022955X2	1	SEAT Back Cover
4	5022955X3	2	ARM REST SET -(Includes Ref No. 5)
5	5022955X4	2	ARM REST PADS
6	5020930X3	1	SEAT ADJUSTER RAILS (set of 2)
7	5047744B	1	WELD, SEAT MOUNT
8	5046470	1	SEAT STOP ROD
9	5020047	1	COLLAR, 5/16" Set
10	5025013X32	2	BOLT, 3/8-16 X 4" GD5 CZ
11	5025057	6	NUT, 5/16-18 Hex Nylon Lock
12	5025096	3	NUT, 3/8-16 HEX NYLON LOCK
13	5025013X48	1	BOLT, 3/8-16 X 6" GD5 CZ
14	5025156	1	WASHER, 3/8 SAE
15	5046586	1	SPACER, .38 X .50 X 5.06
16	5022798	1	SPRING, Compression
17	5025326	1	WASHER, 3/8 x 2
18	-----	1	SWITCH (see electrical group)
19	5025270	2	SCREW, #10-24 X 1 RS, CZ
20	25029	2	NUT, #10-24 Hex
21	5022612	2	RUBBER BUMPER
22	5100636	1	SPRING, EXTENSION, SEAT ADJUSTMENT (YEL OR BLK) -(SV)(Not an illustrated part.) (2" Total unstretched length)

Spindle SERVICE PARTS - 5061095

Note: Unless noted otherwise, use the standard torque specifications

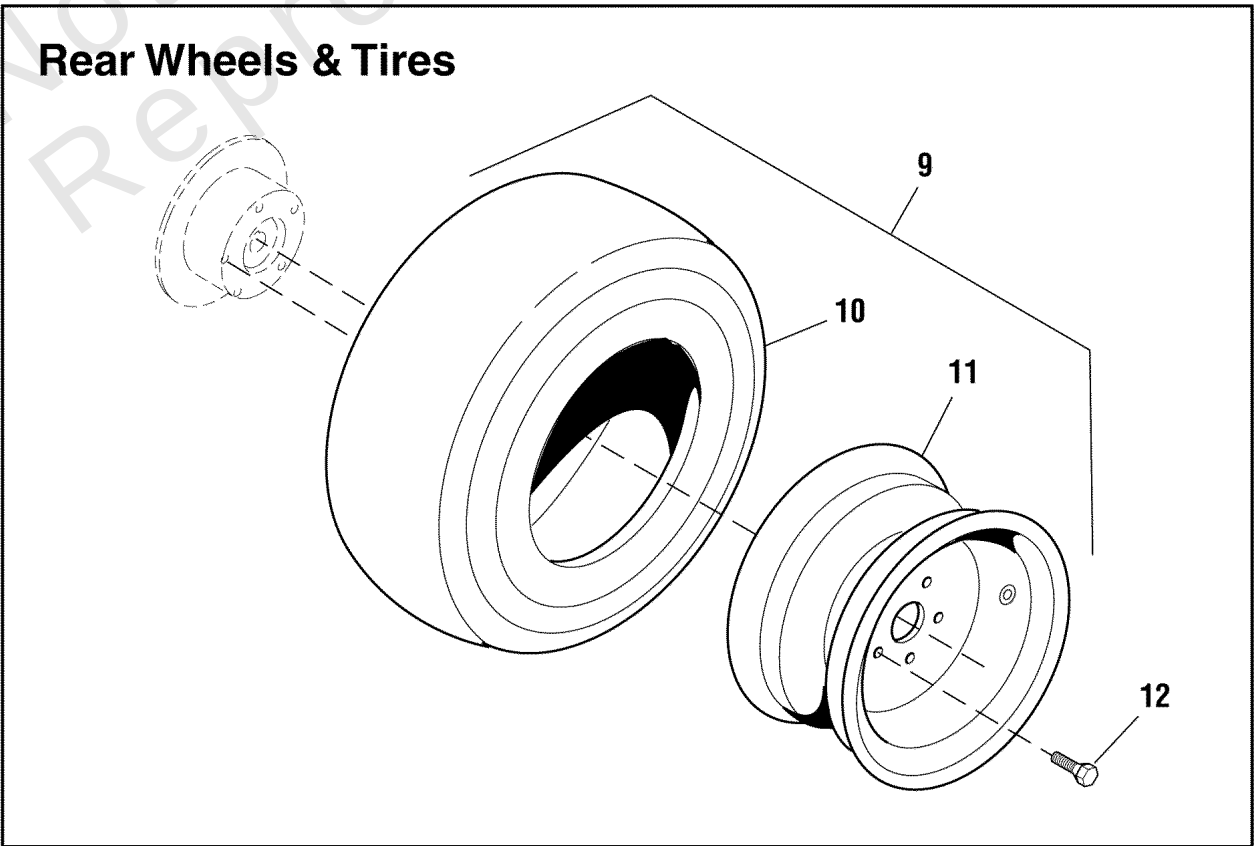
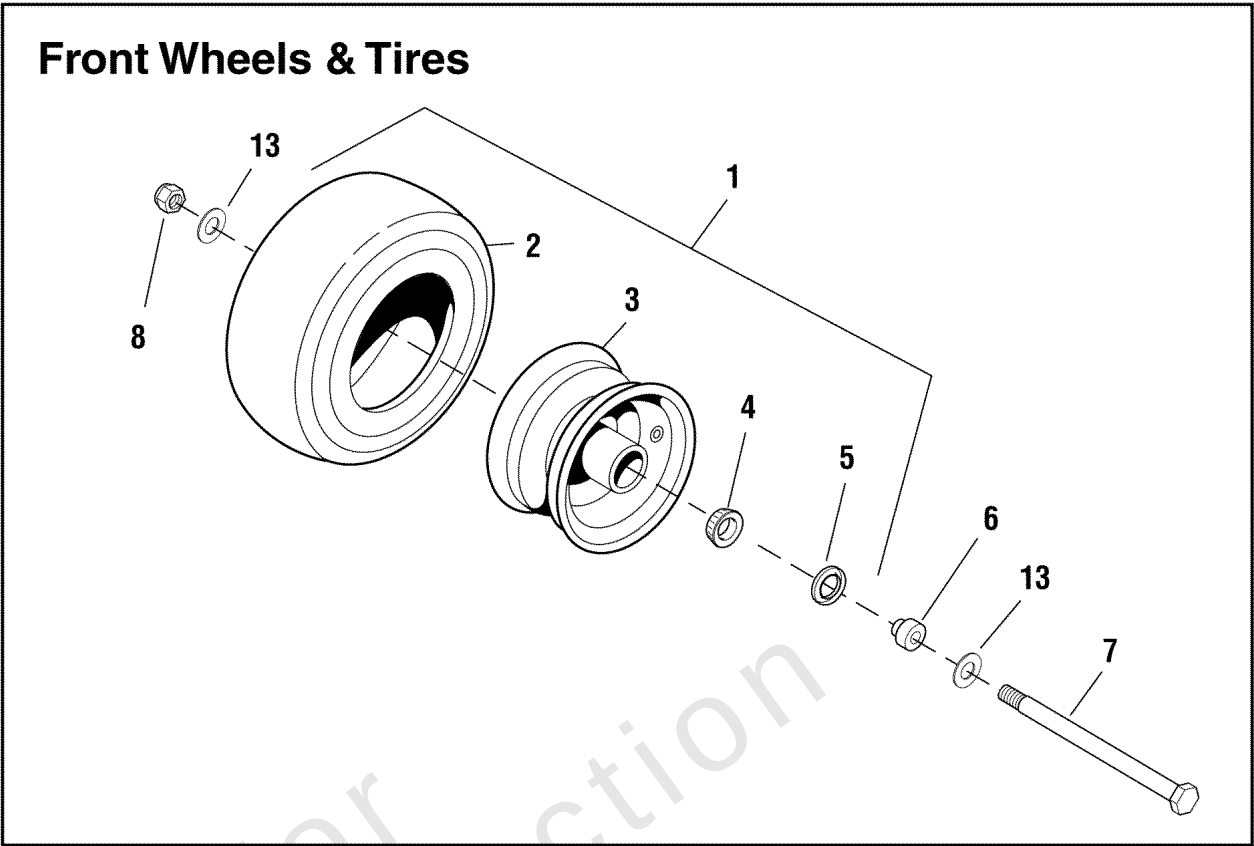
Mfg. No: 5901060

5061095



Spindle SERVICE PARTS - 5061095

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



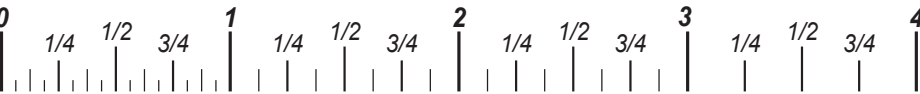
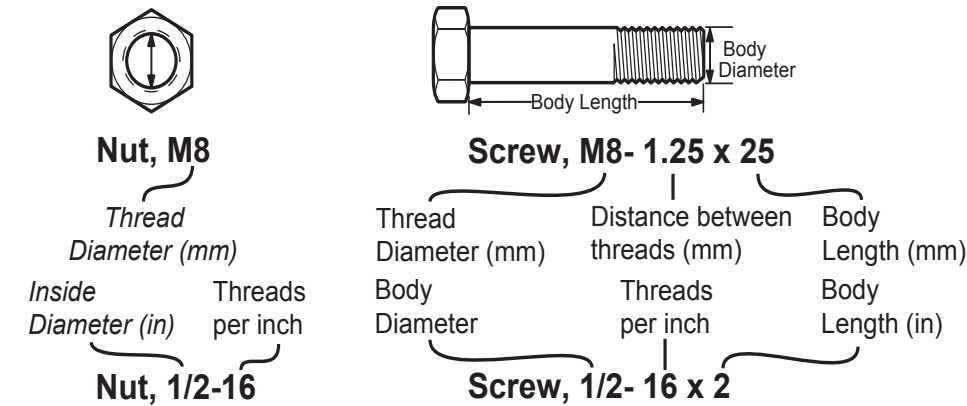
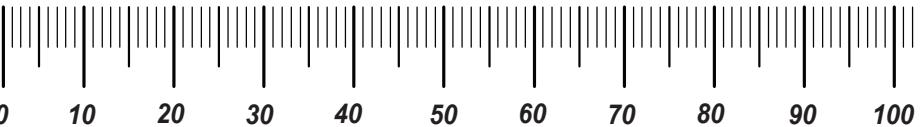
Wheels & Tires Group

REF NO	PART NO	QTY	DESCRIPTION
1	5023136	2	TIRE ASSM, 13 X 6.5 - 6, PNE / TB -(Includes Ref No. 2 - 5)
2	5022577	2	TIRE, RUBBER ONLY
3	5023136X1	2	WHEEL ASSEMBLY, for 13 x 6.5 x 6 Tires, Complete -(Includes Ref No. 4 & 5)
4	5022631SX2	4	BEARING, Tapered Roller -(2 per tire)
5	5022631SX3	4	SEAL, GREASE -(2 per tire)
6	5047103	4	ADAPTER, CASTER AXLE, CZ -(2 per tire)
7	5025017X72	2	BOLT, 1-2/13 x 9
8	5025056	2	NUT, 1/2-13 HEX NYLON LOCK
9	5023365	2	TIRE WHEEL ASM, 24X12.00-12, TURF MASTER -(Includes Ref No. 10 & 11)
10	5023240X1	2	TIRE, 24 X 12 X 12
11	5023364	2	WHEEL, 12 X 8.5
12	5022215	10	WHEEL LUG, 1/2 x 1-5/8

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).

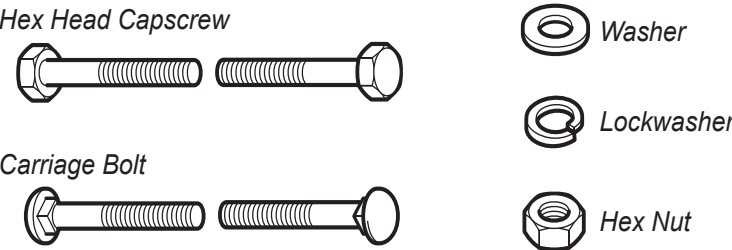
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

