



Parts Manual

Mfg. No: 5900629

IS2000Z Series w/ 61" Mower Deck &
ROPS (IS2000ZLKAV2661)

5600057 - 61" 3-Bag System (IS2000Z Series).....
5049330 - Mulch Kit for ZTR w/ 61" FN Deck s/n: 2013383848 & Below & Procut S w/ 61" FN Deck s/n:

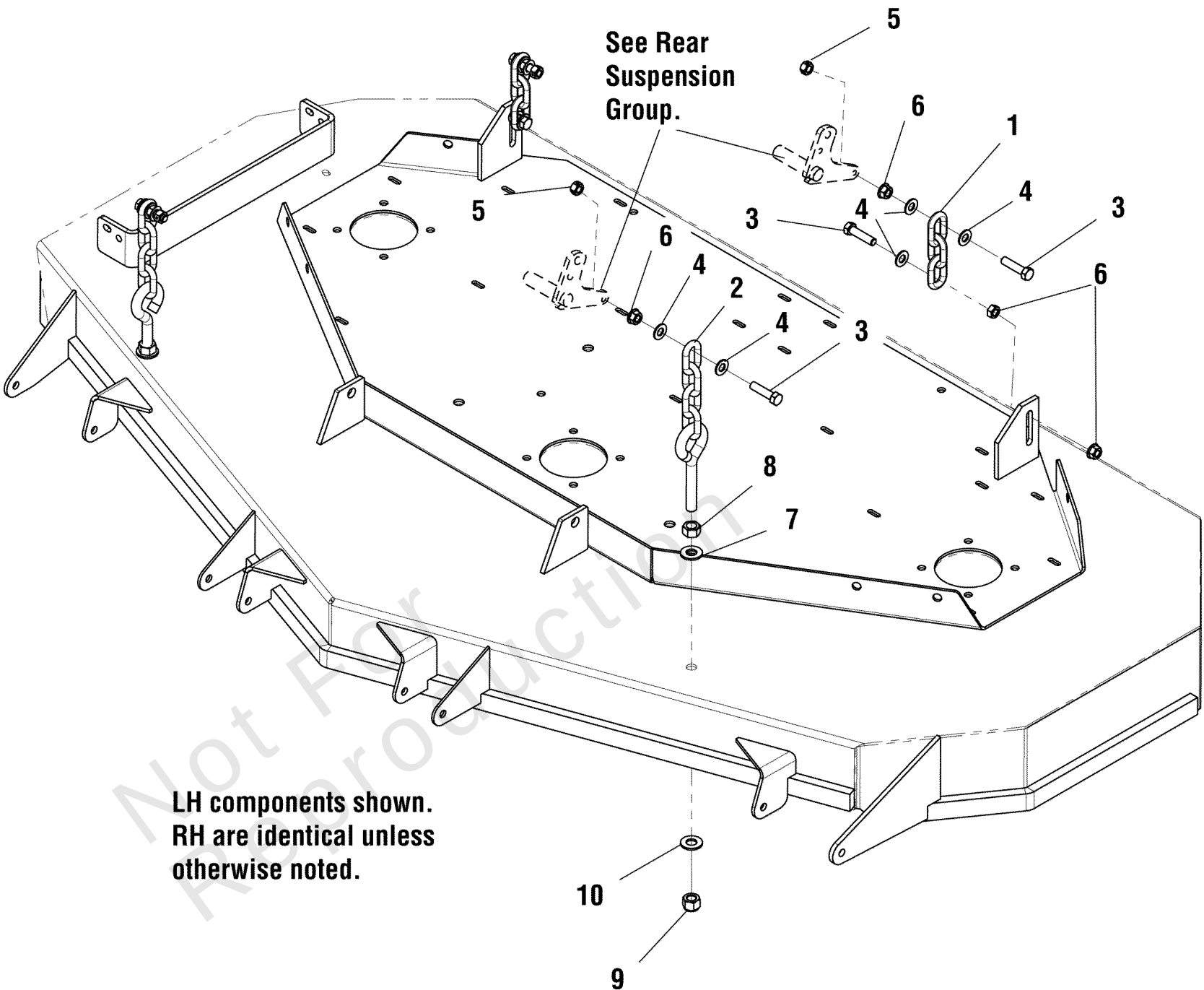
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61" Mower Deck - Hanger Chains

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



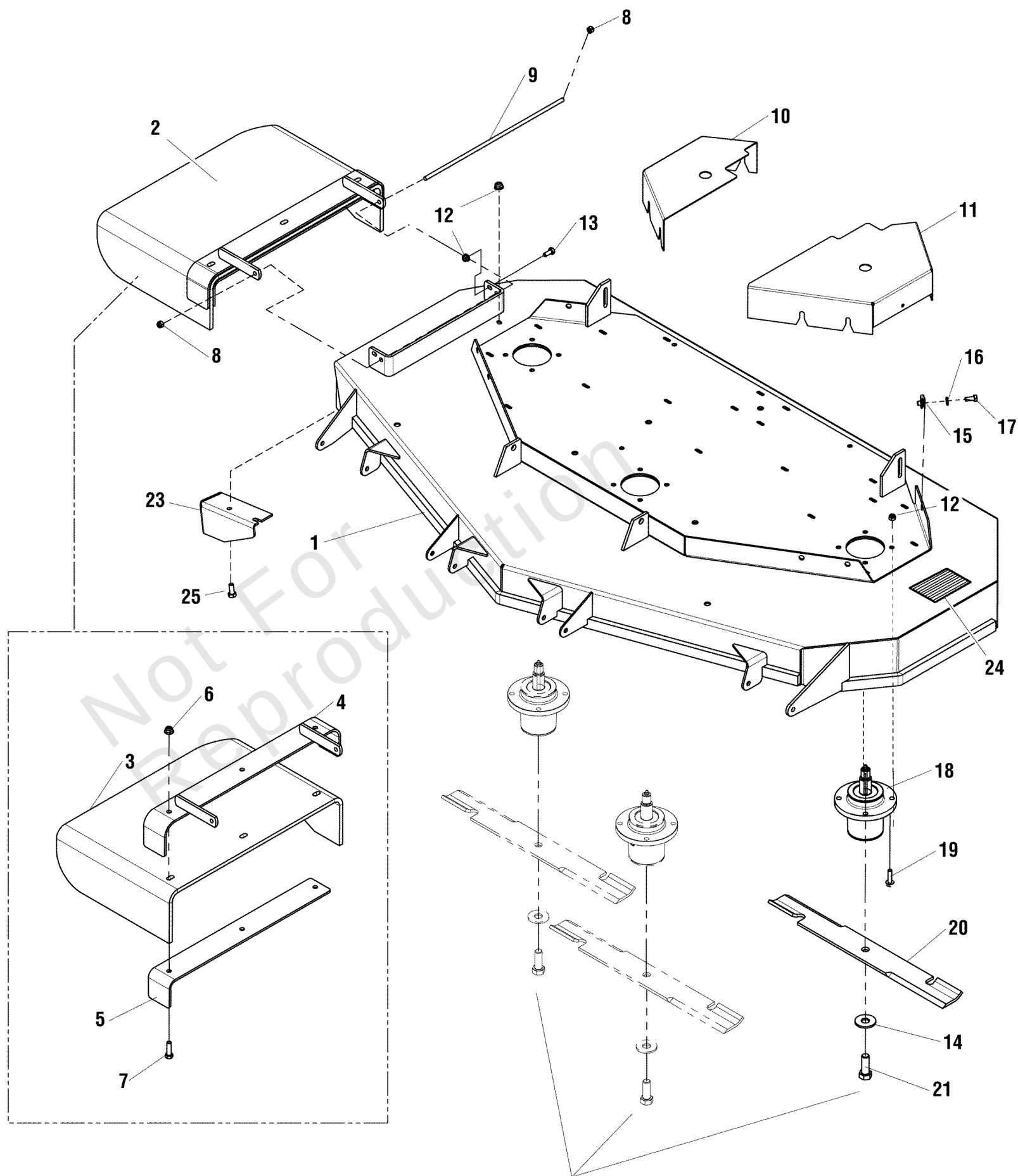
61" Mower Deck - Hanger Chains

REF NO	PART NO	QTY	DESCRIPTION
1	5050878X3	2	CHAIN, 5/16" GD30, 3 LINKS
2	5104303	2	HANGER, FRONT DECK - 4 LINK, 5.5" EB
3	5025013X14	6	BOLT, 3/8-16 X 1-3/4" GD5 CZ
4	5025156	10	WASHER, 3/8 SAE
5	5025100	4	NUT, 3/8-16 HEX SIDE LOCK
6	5025128	8	NUT, 3/8-16 HEX SERRATED FLANGE
7	5025158	2	WASHER, 1/2 SAE
8	5025038	2	NUT, 1/2-13 HEX
9	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
10	5025440	2	WASHER, 1/2" GD9 YZ

61" Mower Deck - Housing, Covers, Spindles & Blades S/N: 2012617338 & Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



**Torque Capscrews
to 70 Ft Lbs
(95 Nm)**

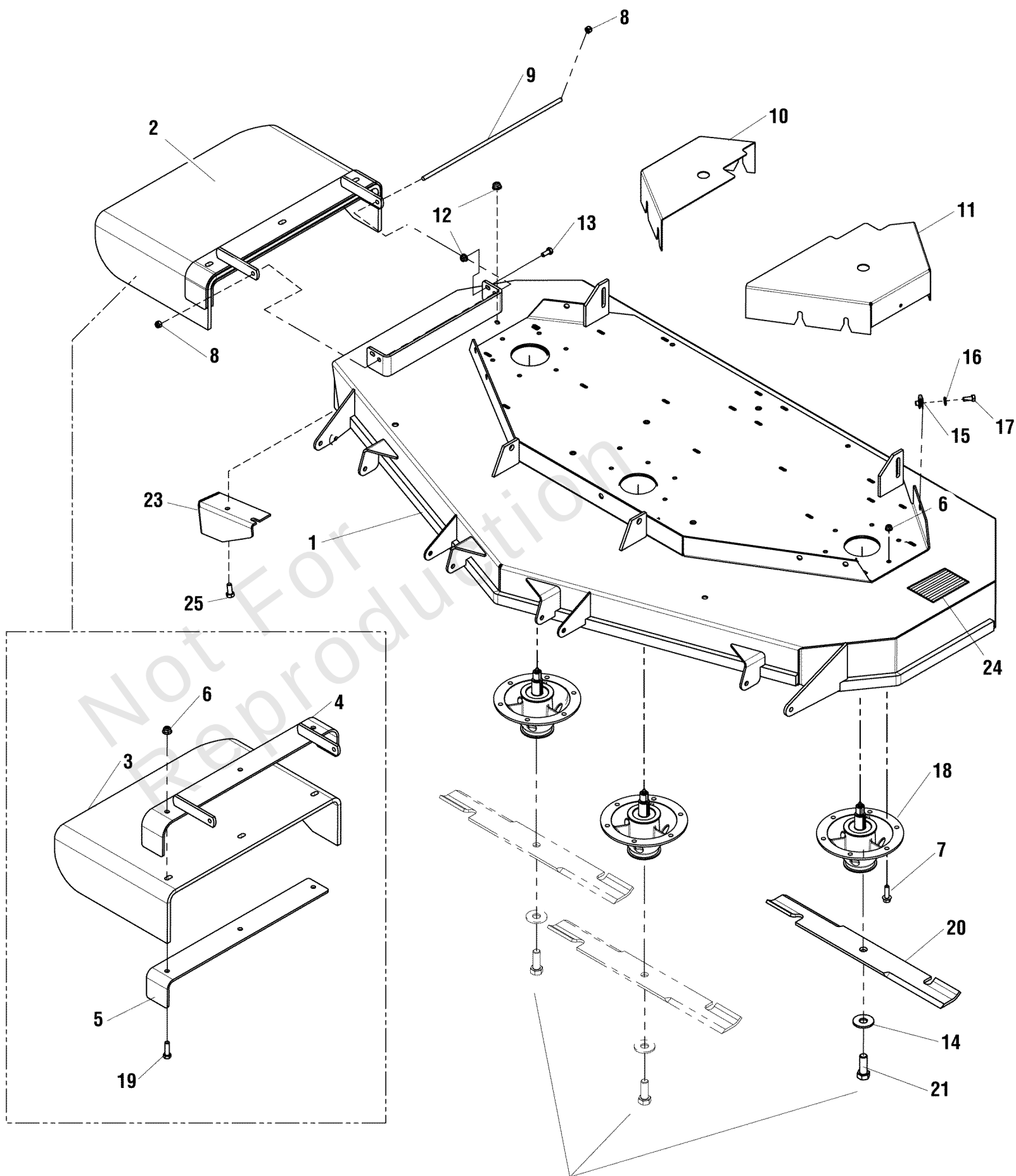
61" Mower Deck - Housing, Covers, Spindles & Blades S/N: 2012617338 & Below

REF NO	PART NO	QTY	DESCRIPTION
1	5600046	1	DECK SHELL W/DECALS, 61", IS2000Z -(Includes Safety Decals)
2	5061288B	1	61" RUBBER CHUTE ASSEMBLY, Complete -(Includes Ref No. 3 - 7)
3	5402403	1	CHUTE, DISCHARGE, RUBBER, 61/72, BENT
4	5061293B	1	WELD, FRAME, CHUTE, 61 - RED
5	5061290B	1	SUPPORT, DISCHARGE CHUTE, 61 - RED
6	5025394	3	NUT, 3/8-16 HEX NYLOCK FLANGE
7	5025013X10	3	BOLT, 3/8-16 X 1-1/4" GD5 CZ
8	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
9	5061300	1	ROD MOUNT, CHUTE 61"
10	5400791B	1	GUARD, 61", RH - RED
11	5405484B	1	GUARD, 61 - LH - RED
12	5025392	15	NUT, 5/16-18 HEX NYLOCK FLANGE
13	5025011X6	1	BOLT, 5/16-18 X 3/4 GD5
14	5025477	3	WASHER, 5/8" GRADE 8, YZ
15	5022308	6	BODY CLIP, 5/16-18-7GA MATERIAL
16	5025155	4	WASHER, 5/16" SAE
17	5025011X6	4	BOLT, 5/16-18 X 3/4 GD5
18	5061095	3	ASSM, SPINDLE, LOW PROFILE -(Nut and Washer Sold Seperately)
19	5023156	12	BOLT, 5/16-18 X 1 1/4" FLANGE
20	5020842	3	BLADE, 21"
21	5025320X14	3	BOLT, 5/8-11 X 1-3/4 GD8
22	5025155	2	WASHER, 5/16" SAE
23	5401344A	1	PLATE, DEFLECTOR - BLK
24	5101005	1	SAFETY WALK, 9.75 X 6.00
25	5025145X6	2	BOLT, 5/16-18 X 3/4, CARRIAGE

61" Mower Deck - Housing, Covers, Spindles & Blades S/N: 2012617339 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



**Torque Capscrews
to 70 Ft Lbs
(95 Nm)**

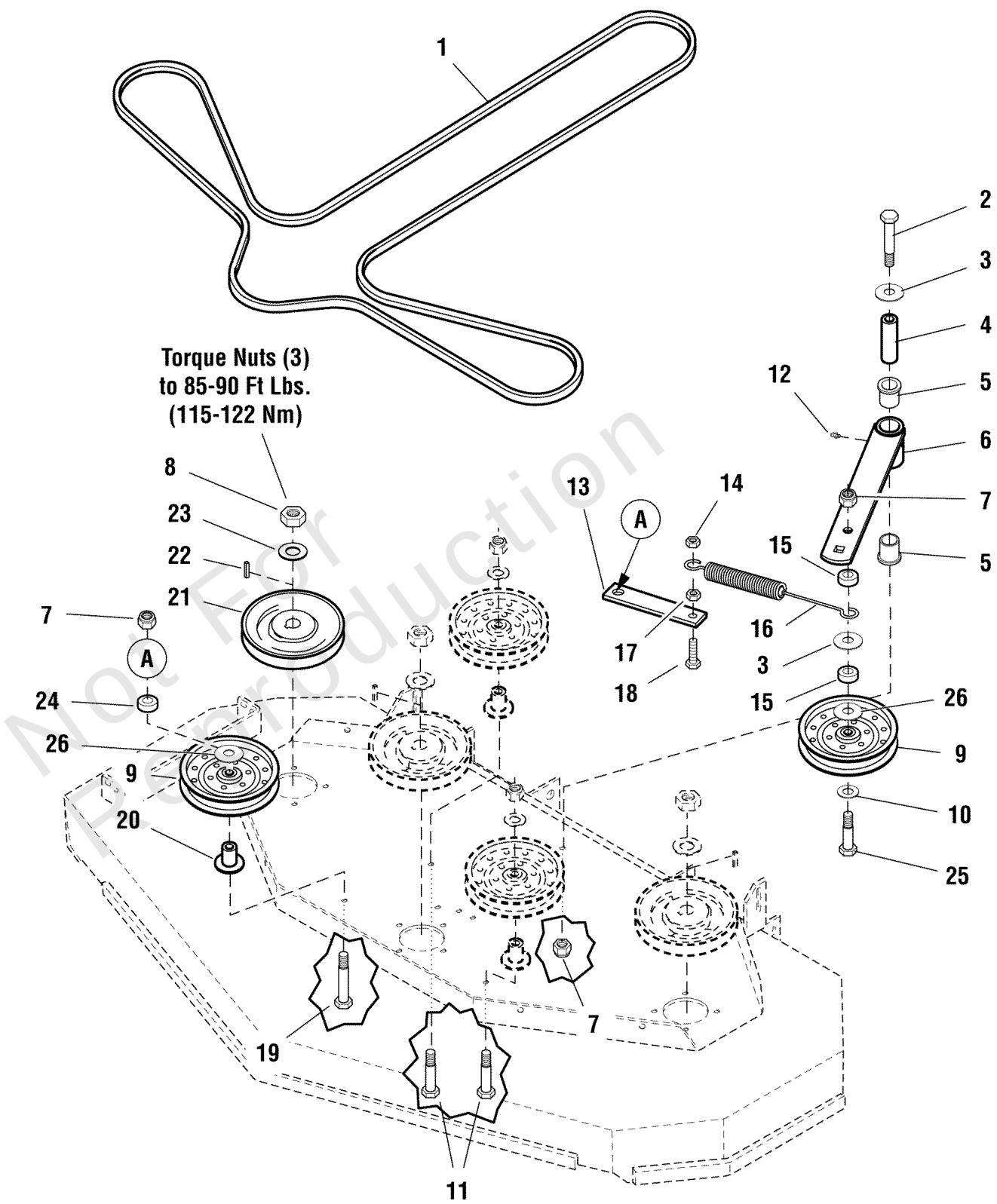
61" Mower Deck - Housing, Covers, Spindles & Blades S/N: 2012617339 & Above

REF NO	PART NO	QTY	DESCRIPTION
1	5600133	1	DECK SHELL W/DECALS, 61" SIDE DISCHARGE -(Includes Safety Decals)
2	-----	1	PURCHASE INDIVIDUAL REPLACEMENT PARTS -(Includes Ref No. 3 - 7)
3	5402403	1	CHUTE, DISCHARGE, RUBBER, 61/72, BENT
4	5061293B	1	WELD, FRAME, CHUTE, 61 - RED
5	5402360A	1	SUPPORT, DISCHARGE CHUTE - BLK
6	5025394	21	NUT, 3/8-16 HEX NYLOCK FLANGE
7	5025013X8	18	BOLT, 3/8-16 X 1" GD5 CZ
8	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
9	5061300	1	ROD MOUNT, CHUTE 61"
10	5400791B	1	GUARD, 61", RH - RED
11	5405484B	1	GUARD, 61 - LH - RED
12	5025392	3	NUT, 5/16-18 HEX NYLOCK FLANGE
13	5025011X6	1	BOLT, 5/16-18 X 3/4 GD5
14	5025477	3	WASHER, 5/8" GRADE 8, YZ
15	5022308	6	BODY CLIP, 5/16-18-7GA MATERIAL
16	5025155	4	WASHER, 5/16" SAE
17	5025011X6	6	BOLT, 5/16-18 X 3/4 GD5
18	5100993	3	ASSM, SPINDLE, CAST IRON
19	5025013X12	3	BOLT, 3/8-16 X 1-1/2" GD5 CZ
20	5020842	3	BLADE, 21"
21	5025320X14	3	BOLT, 5/8-11 X 1-3/4 GD8
22	5025155	2	WASHER, 5/16" SAE
23	5401344A	1	PLATE, DEFLECTOR - BLK
24	5101005	1	SAFETY WALK, 9.75 X 6.00
25	5025145X6	2	BOLT, 5/16-18 X 3/4, CARRIAGE

61" Mower Deck - Pulleys, Belt & Idler Arm

Note: Unless noted otherwise, use the standard torque specifications

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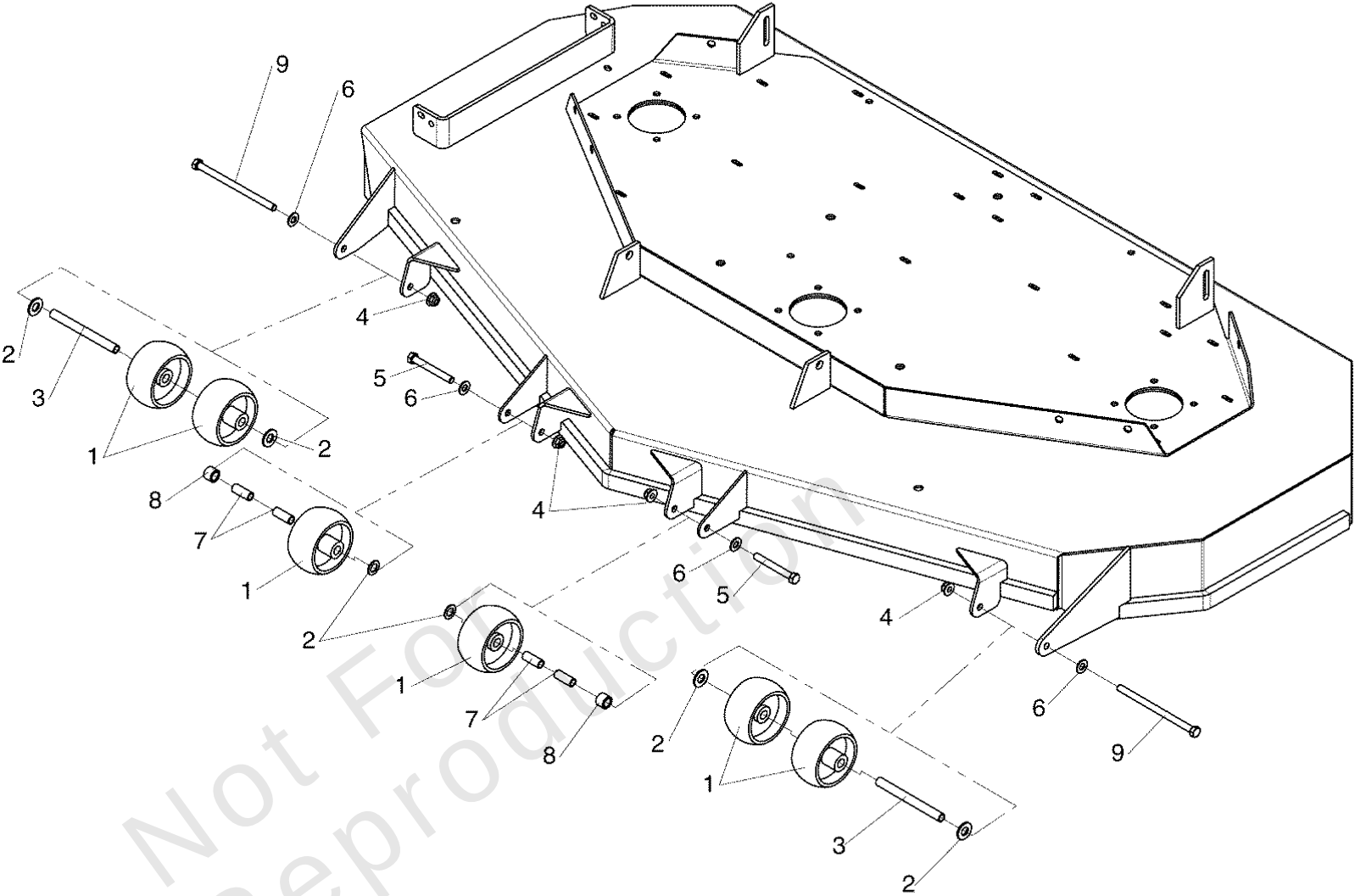
61" Mower Deck - Pulleys, Belt & Idler Arm

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" GD5
3	5025150	2	WASHER, 1/2" USS
4	5045022	1	SPACER, .52 X 1.00 X 3.50
5	5021541	2	BUSHING, FLANGE
6	5407343	1	ASSM, IDLER ARM -(Includes Bushings & grease fittings.)
7	5025396	5	NUT, Hex Flange, Nylock, 1/2-13
8	5025405	3	NUT, 3/4-16 HEX
9	-----	4	Replace with: Pulley #5104717 & Debris Shield #5105145 -*If not present, order 5025158 - washer and 5101103 - shield.
10	5025440	4	WASHER, 1/2" GD9 YZ
11	5025017X24	2	BOLT, 1/2-13 X 3" GD5 CZ
12	5020095	1	GREASE FITTING, 1/4-28 STRAIGHT
13	5400846B	1	MOUNT, IDLER SPRING - RED
14	5025100	1	NUT, 3/8-16 HEX SIDE LOCK
15	5044609	2	SPACER, .52 X 1.00 X .38
16	5023340	1	SPRING, EXTENSION, SWIVEL END
17	5025128	1	NUT, 3/8-16 HEX SERRATED FLANGE
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	5100700	3	PULLEY, 6.93 EOD X 25MM, SPLIT -(S/N: 2000593606 & Above)
21	5100444	3	PULLEY, SPINDLE, 6.5 OD X 25MM, SPLIT ST -(S/N: 2000533354 - 2000593605)
21	5046466	3	PULLEY, BC66 X 25MM, SPECIAL -(S/N: 2000530156 - 2000533353)
21	5100444	3	PULLEY, SPINDLE, 6.5 OD X 25MM, SPLIT ST -(S/N: 2000375067 - 2000530155)
21	5046466	3	PULLEY, BC66 X 25MM, SPECIAL -(S/N: 2000375066 & Below)
22	5050407X10	3	KEY, 1/4" SQ. X 1-1/4
23	5025406	3	WASHER, 3/4 BELLEVILLE
24	5045023	1	SPACER, .52 x 1.00 x .44
25	5025017X24	1	BOLT, 1/2-13 X 3" GD5 CZ
26	5101103	4	SHIELD, PULLEY BEARING

61" Mower Deck - Rollers & Casters

Note: Unless noted otherwise, use the standard torque specifications

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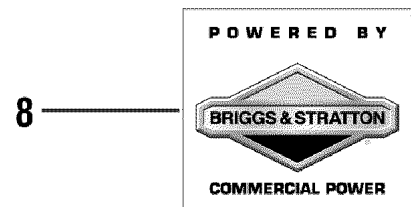
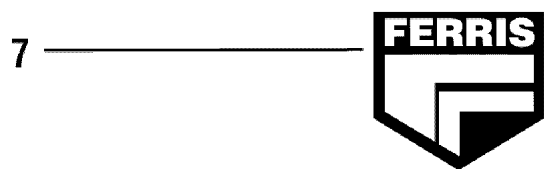
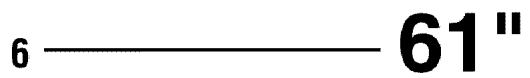
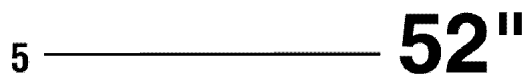
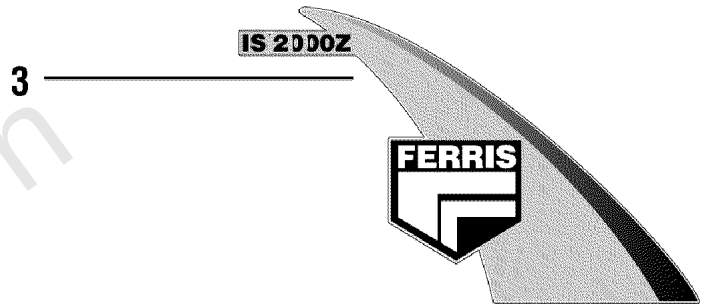
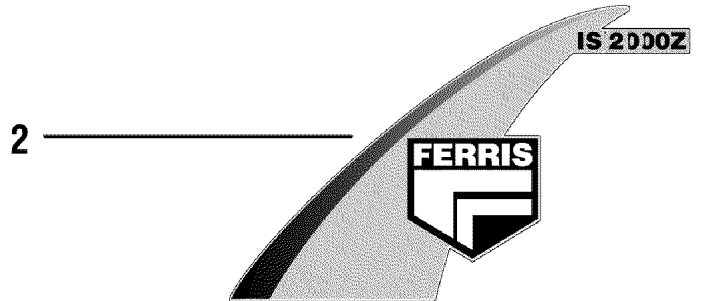
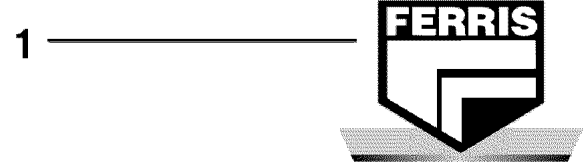
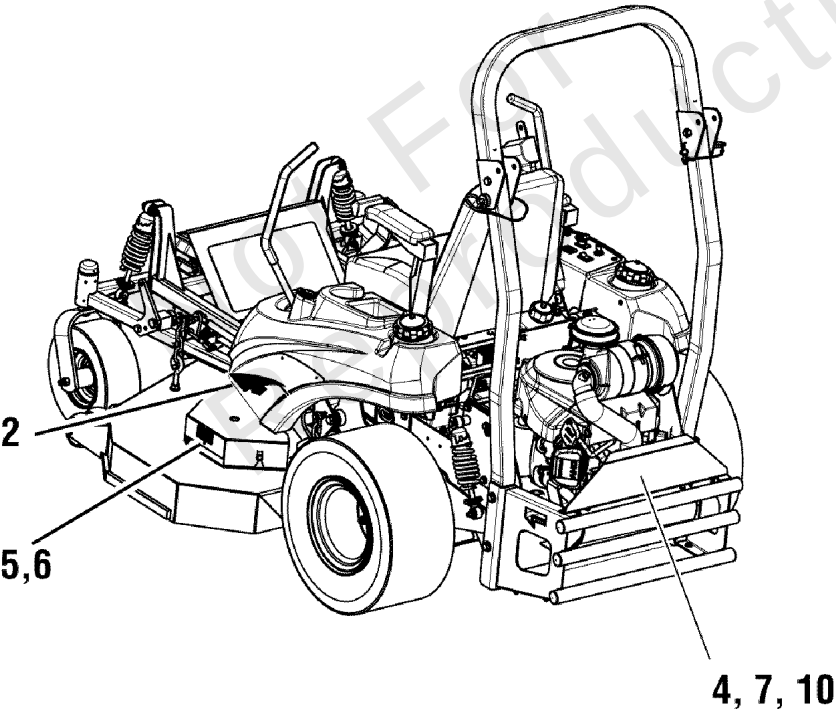
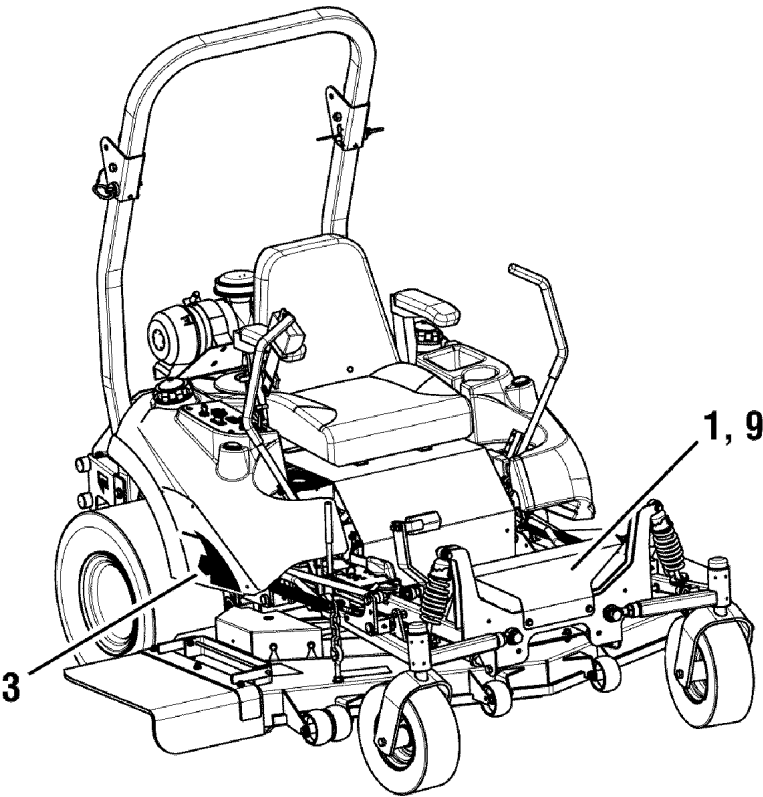
61" Mower Deck - Rollers & Casters

REF NO	PART NO	QTY	DESCRIPTION
1	1714760	6	WHEEL- 2.00 WIDE 3.88 DIA 0.531ID POLY
2	5025440	6	WASHER, 1/2" GD9 YZ
3	5046586	2	SPACER, .38 X .50 X 5.06
4	5025394	4	NUT, 3/8-16 HEX NYLOCK FLANGE
5	5025013X24	2	BOLT, 3/8-16 X 3" GD5 CZ
6	5025156	4	WASHER, 3/8 SAE
7	5041931	4	SPACER, .38 X .50 X 1.25, CZ
8	5047027	2	SPACER, .51 X .75 X .56
9	5025013X48	2	BOLT, 3/8-16 X 6" GD5 CZ

Decals - Brand & Model

Note: Unless noted otherwise, use the standard torque specifications

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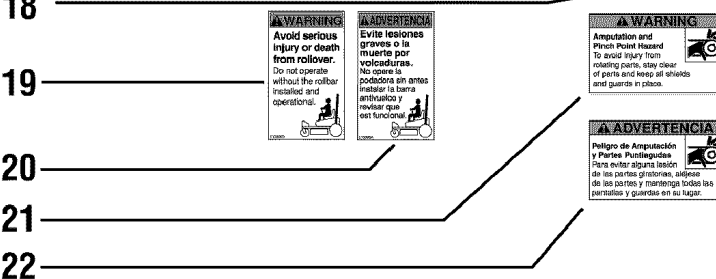
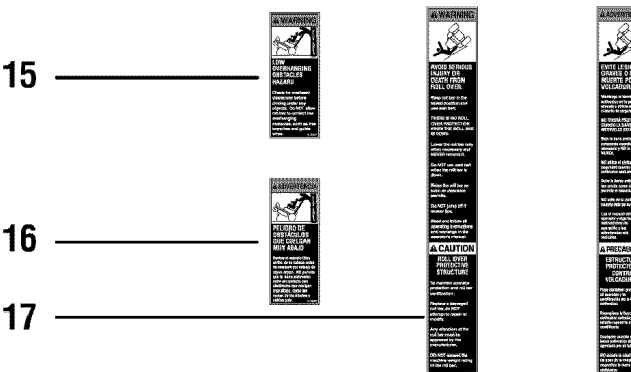
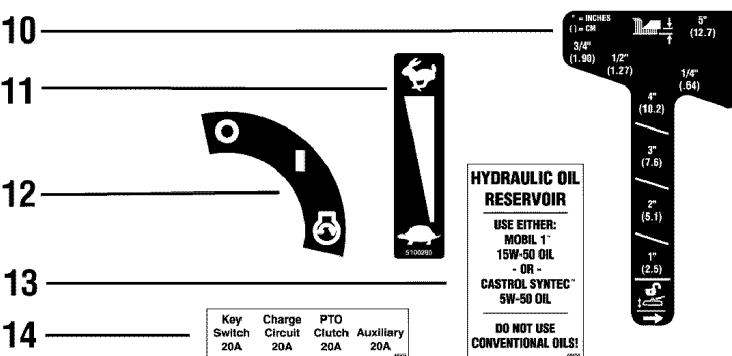
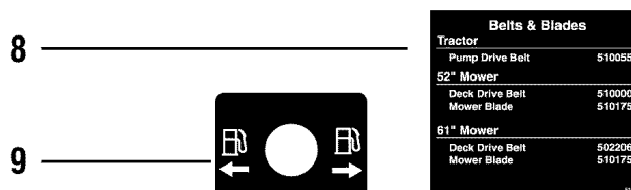
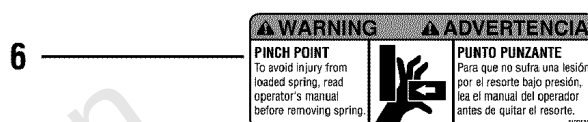
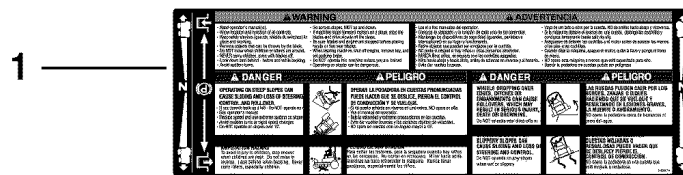
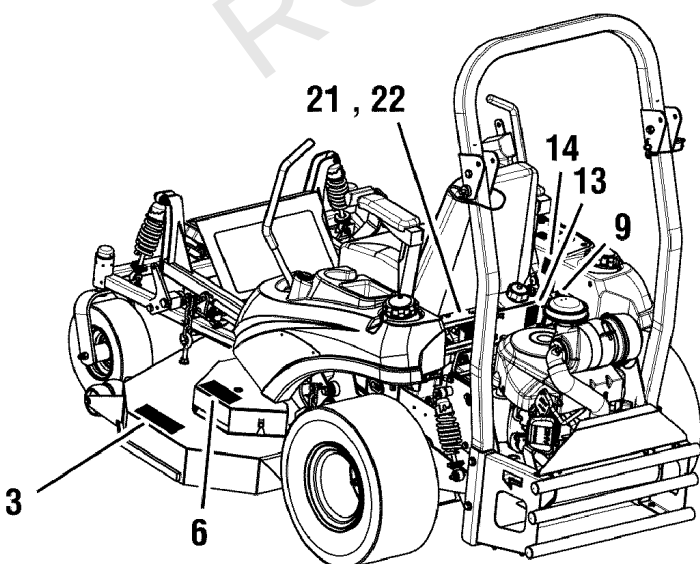
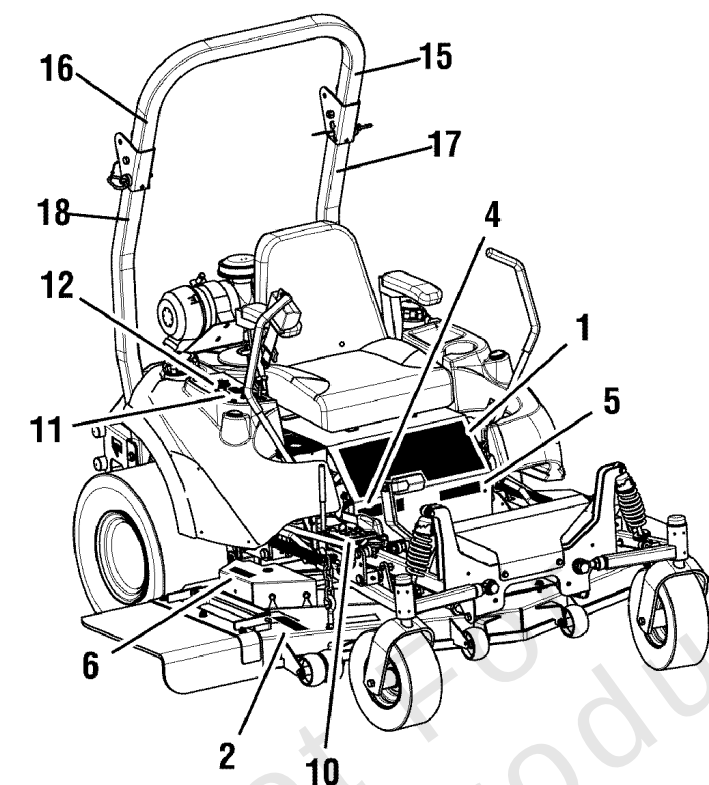
Decals - Brand & Model

REF NO	PART NO	QTY	DESCRIPTION
1	5100340	1	USE 5104477-DECAL,FERRIS,FRONT,6.75X4.25
2	5100336	1	DECAL, BADGE, IS2000Z, LH
3	5100337	1	DECAL, BADGE, IS2000Z, RH
4	5400009	1	DECAL, FERRIS TEXT -(2006 Models & Below)
5	5022812	1	DECAL, 52 -(52" Models)
6	5022813	1	DECAL, 61" -(61" Models)
7	5100369	1	USE 5104477 - DECAL, FERRIS LOGO, 5-3/8 -(2007 Models & Above)
8	-----	1	NO LONGER AVAILABLE - LABEL, BRIGGS & STRATTON LOGO
9	5101127	1	DECAL, 2000, BIG BLOCK, FRONT -(Briggs & Stratton Models)
10	5101128	1	DECAL, 2000, BIG BLOCK, REAR -(Briggs & Stratton Models)

Decals - Safety & Operation

Note: Unless noted otherwise, use the standard torque specifications

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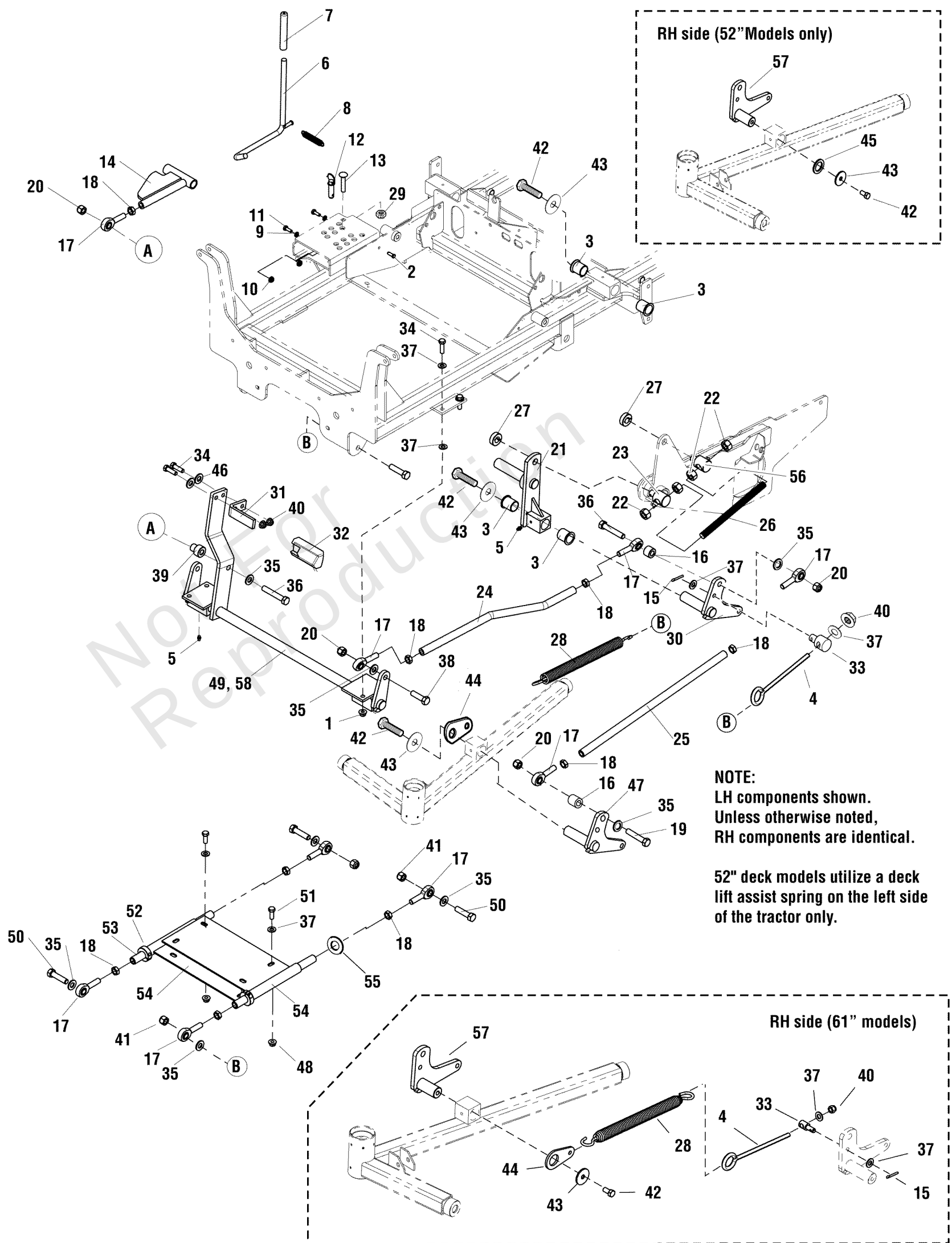
Decals - Safety & Operation

REF NO	PART NO	QTY	DESCRIPTION
1	5100097	1	DECAL, MAIN SAFETY
2	5101292	1	DECAL, DANGER, MOWER DISCHARGE
3	5100088	1	DECAL, DANGER, MOWER
4	5100708	1	DECAL, DANGER, FIRE
5	5100709	1	DECAL, DANGER, FIRE (SP)
6	5100134	2	DECAL, WARNING, PINCH POINT
7	1725941	1	DECAL, CZT HYDRO RELEASE -(Located under seat.)
8	5102165	1	DECAL, BELTS & BLADES, IS2000Z -(Located under seat.)
9	5100342	1	DECAL, FUEL VALVE
10	5061724	1	DECAL, HEIGHT OF CUT
11	5100280	1	DECAL, THROTTLE CONTROL
12	5048970	1	DECAL, IGNITION SWITCH
13	5048454	1	DECAL, OIL RESERVOIR
14	5046503	1	DECAL, FUSE LOCATION
15	5100405	1	DECAL, WARNING
16	-----	1	NLA - DECAL, WARNING, OVERHANG, ROPS (SP)
17	-----	1	ORDER PART NUMBERS 5104082 & 5104083
18	-----	1	NLA - DECAL, WARNING & CAUTION, ROPS (SP)
19	5100683	1	DECAL, WARNING, ROLL BAR -(Located behind LH Roll bar post.)
20	5100684	1	DECAL, WARNING, ROLL BAR (SP) -(Located behind RH Roll bar post.)
21	5103184	1	DECAL, WARNING, HAND IN BELT, ENG -(S/N: 2015739398 & Above)
22	5103188	1	DECAL, WARNING, HAND IN BELT, SPA -(S/N: 2015739398 & Above)

Deck Lift Group (S/N: 2000458825 - 2013203286)

Note: Unless noted otherwise, use the standard torque specifications

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Deck Lift Group (S/N: 2000458825 - 2013203286)

REF NO	PART NO	QTY	DESCRIPTION
1	5025394	4	NUT, 3/8-16 HEX NYLOCK FLANGE
2	5025212X7	1	PIN, CLEVIS, 1/4 X 7/8, PLATED
3	5023343	8	BUSHING, 1.00 X 1.13 X 1.38, PLASTIC
4	5021811	1	* EYEBOLT, 3/2-16 X 8", 1" EYE
5	5020095	4	GREASE FITTING, 1/4-28 STRAIGHT
6	5400719A	1	WELD, ROD DECK LIFT - BLK
7	5021880	1	GRIP, FOAM
8	5020639	1	SPRING, EXTENSION
9	5025154	2	WASHER, 1/4 SAE
10	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
11	5025010X6	2	BOLT, 1/4-20 X 3/4" GD5 YZ
12	5023498	1	PIN, HITCH, 1/2 X 2.00 OAL, YP
13	5025146X16	1	BOLT, 3/8-16 X 2", CARRIAGE
14	5400769B	1	WELD, DECK ADJUST LINK - RED
15	5025203X6	1	* PIN, COTTER, 1/8" X 3/4
16	5045178	4	SPACER, .52 X 1.00 X .75
17	5022434	13	BALL JOINT, 1/2-20, MALE
18	5025089	13	NUT, 1/2-20 HEX JAM
19	5025017X22	2	BOLT, 1/2-13 X 2-3/4 GD5 CZ
20	5025056	7	NUT, 1/2-13 HEX NYLON LOCK
21a	5401664A	1	WELD, REAR LIFT, LH - BLK
21b	5401665A	1	WELD, REAR LIFT, RH - BLK -(Not Shown)
22	5025040	8	NUT, 5/8-11 HEX
23	5045447	2	PIVOT, SPRING ROD
24	5100149	2	ROD, DECK LIFT BENT
25	5100148	2	ROD, DECK LIFT, OUTER
26	5100247	2	ROD, 5/8-11 X 9.00
27	5020441	4	COLLAR, 5/8" SPLIT
28	5023355	1	* SPRING, DECK LIFT ASSIST
29	5025100	1	NUT, 3/8-16 HEX SIDE LOCK
30a	5401671A	1	WELD, DECK LIFT LEVER, LH - BLK
30b	5401672A	1	WELD, DECK LIFT LEVER, RH - BLK -(Not Shown)
31	5061569A	1	PEDAL, FOOT - BLK
32	5104262	1	PEDAL, Rubber
33	5100380	1	* ADJUSTER, DECK HANGER
34	5025013X10	6	BOLT, 3/8-16 X 1-1/4" GD5 CZ
35	5025440	11	WASHER, 1/2" SAE
36	5025017X28	3	BOLT, 1/2-13 X 3-1/2, HEX HD, GD5, CZ (SV)
37	5025156	15	WASHER, 3/8 SAE -(61" Model Qty. 16)
38	5025017X14	2	BOLT, 1/2-13 X 1-3/4 GD5 CZ
39	5047103	1	ADAPTER, CASTER AXLE, CZ -(2 per tire)
40	5025096	3	NUT, 3/8-16 HEX NYLON LOCK -(61" Model Qty. 4)
41	5025098	4	NUT, Hex, Nylon Lock, 1/2-20
42	5025443	6	BOLT, 3/8-16 X 3/4, PLT W/PATCH
43	5100548	6	WASHER, .390 X 1.50 X .109, YZ

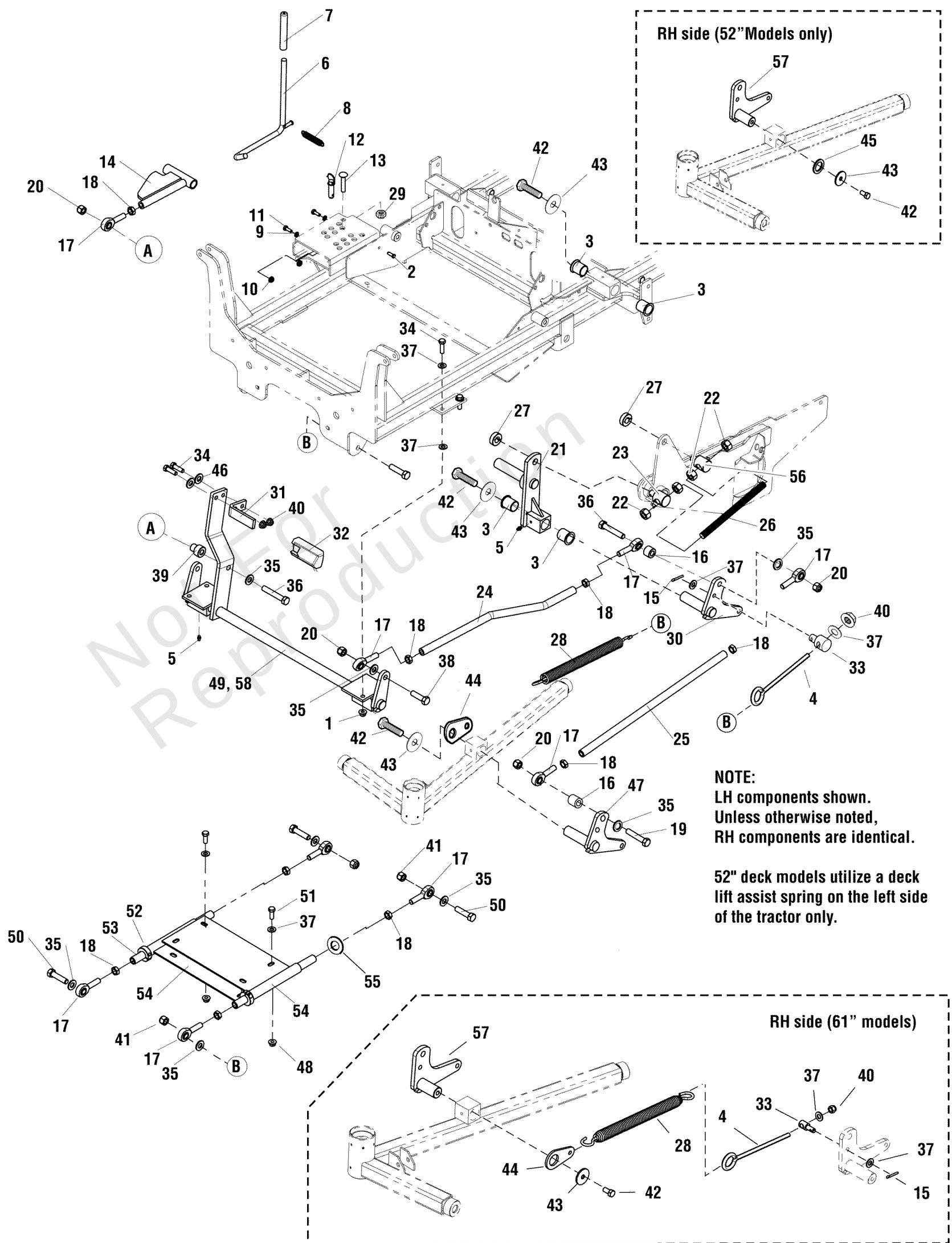
Footnotes:

* 61" models use double the qty.

Deck Lift Group (S/N: 2000458825 - 2013203286)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Deck Lift Group (S/N: 2000458825 - 2013203286)

REF NO	PART NO	QTY	DESCRIPTION
44	5401645B	1	* MOUNT, SPRING DECK LIFT - RED
45	5020929	1	SHIM, 1.0 X 1.5 X 0.125
46	5025293	2	WASHER, 3/8" GR9 FLAT
47	5401661B	1	WELD, PIVOT DECK LIFT - LH - RED
48	5025128	4	NUT, 3/8-16 HEX SERRATED FLANGE
49	5400634B	1	WELD, DECK LIFT SHAFT - RED -(S/N: 2000458825 - 2013099111)
50	5025018X14	4	BOLT, 1/2-20 X 1-3/4" GD8 CZ
51	5025013X8	4	BOLT, 3/8-16 X 1" GD5 CZ
52	5010114	2	COLLAR, 3/4" SPLIT
53	5100155	2	SHAFT, DECK STABILIZER
54	5400647A	2	WELD, DECK STABILIZER - BLK
55	5025158	2	WASHER, 1/2 SAE
56a	5045856	2	PIVOT, SPRING ROD -(52" Models)
56b	5045447	2	PIVOT, SPRING ROD -(61" Models)
57	5401662B	1	WELD, PIVOT DECK LIFT - RH - RED
58	5404144B	1	WELD, DECK LIFT SHAFT - RED -(S/N: 2013099112 & Above)

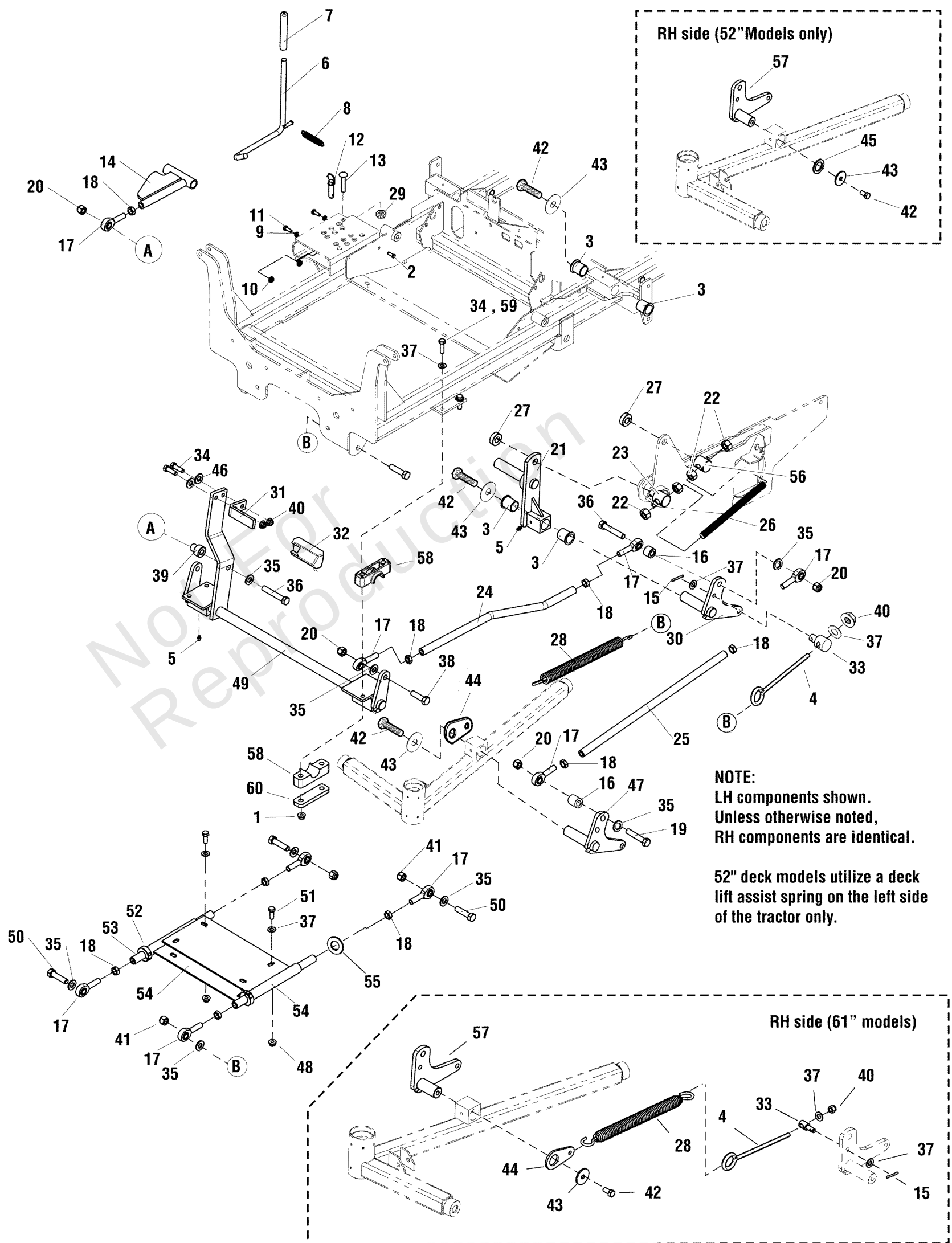
Footnotes:

* 61" models use double the qty.

Deck Lift Group (S/N: 2013203287 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Deck Lift Group (S/N: 2013203287 & Above)

REF NO	PART NO	QTY	DESCRIPTION
1	5025394	4	NUT, 3/8-16 HEX NYLOCK FLANGE
2	5025212X7	1	PIN, CLEVIS, 1/4 X 7/8, PLATED
3	5023343	8	BUSHING, 1.00 X 1.13 X 1.38, PLASTIC
4	5021811	1	* EYEBOLT, 3/2-16 X 8", 1" EYE
5	5020095	4	GREASE FITTING, 1/4-28 STRAIGHT
6	5400719A	1	WELD, ROD DECK LIFT - BLK
7	5021880	1	GRIP, FOAM
8	5020639	1	SPRING, EXTENSION
9	5025154	2	WASHER, 1/4 SAE
10	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
11	5025010X6	2	BOLT, 1/4-20 X 3/4" GD5 YZ
12	5023498	1	PIN, HITCH, 1/2 X 2.00 OAL, YP
13	5025146X16	1	BOLT, 3/8-16 X 2", CARRIAGE
14	5400769B	1	WELD, DECK ADJUST LINK - RED
15	5025203X6	1	* PIN, COTTER, 1/8" X 3/4
16	5045178	4	SPACER, .52 X 1.00 X .75
17	5022434	13	BALL JOINT, 1/2-20, MALE
18	5025089	13	NUT, 1/2-20 HEX JAM
19	5025017X22	2	BOLT, 1/2-13 X 2-3/4 GD5 CZ
20	5025056	7	NUT, 1/2-13 HEX NYLON LOCK
21a	5401664A	1	WELD, REAR LIFT, LH - BLK
21b	5401665A	1	WELD, REAR LIFT, RH - BLK -(Not Shown)
22	5025040	8	NUT, 5/8-11 HEX
23	5045447	2	PIVOT, SPRING ROD
24	5100149	2	ROD, DECK LIFT BENT
25	5100148	2	ROD, DECK LIFT, OUTER
26	5100247	2	ROD, 5/8-11 X 9.00
27	5020441	4	COLLAR, 5/8" SPLIT
28	5023355	1	* SPRING, DECK LIFT ASSIST
29	5025100	1	NUT, 3/8-16 HEX SIDE LOCK
30a	5401671A	1	WELD, DECK LIFT LEVER, LH - BLK
30b	5401672A	1	WELD, DECK LIFT LEVER, RH - BLK -(Not Shown)
31	5061569A	1	PEDAL, FOOT - BLK
32	5104262	1	PEDAL, Rubber
33	5100380	1	* ADJUSTER, DECK HANGER
34	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
35	5025440	11	WASHER, 1/2" SAE
36	5025017X28	3	BOLT, 1/2-13 X 3-1/2, HEX HD, GD5, CZ (SV)
37	5025156	11	WASHER, 3/8 SAE -(61" Models Qty. 12)
38	5025017X14	2	BOLT, 1/2-13 X 1-3/4 GD5 CZ
39	5047103	1	ADAPTER, CASTER AXLE, CZ -(2 per tire)
40	5025096	3	NUT, 3/8-16 HEX NYLON LOCK -(61" Models Qty. 4)
41	5025098	4	NUT, Hex, Nylon Lock, 1/2-20
42	5025443	6	BOLT, 3/8-16 X 3/4, PLT W/PATCH
43	5100548	6	WASHER, .390 X 1.50 X .109, YZ

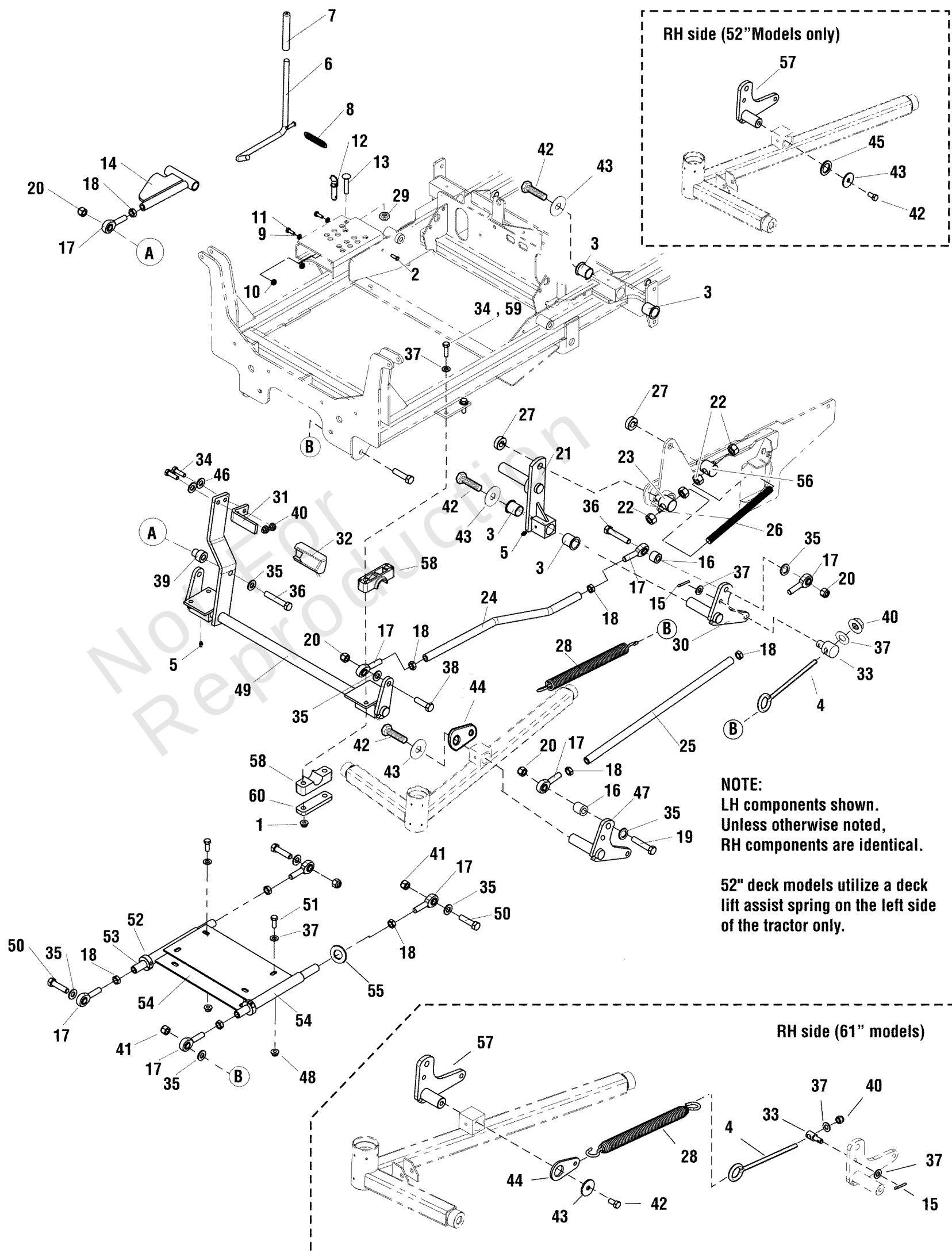
Footnotes:

* 61" models use double the qty.

Deck Lift Group (S/N: 2013203287 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Deck Lift Group (S/N: 2013203287 & Above)

REF NO	PART NO	QTY	DESCRIPTION
44	5401645B	1	* MOUNT, SPRING DECK LIFT - RED
45	5020929	1	SHIM, 1.0 X 1.5 X 0.125 -(52" Models)
46	5025293	2	WASHER, 3/8" GR9 FLAT
47	5401661B	1	WELD, PIVOT DECK LIFT - LH - RED
48	5025128	4	NUT, 3/8-16 HEX SERRATED FLANGE
49	5404307B	1	WELD, DECK LIFT SHAFT - RED
50	5025018X14	4	BOLT, 1/2-20 X 1-3/4" GD8 CZ
51	5025013X8	4	BOLT, 3/8-16 X 1" GD5 CZ
52	5010114	2	COLLAR, 3/4" SPLIT
53	5100155	2	SHAFT, DECK STABILIZER
54	5400647A	2	WELD, DECK STABILIZER - BLK
55	5025158	2	WASHER, 1/2 SAE
56a	5045856	2	PIVOT, SPRING ROD -(52" Models)
56b	5045447	2	PIVOT, SPRING ROD -(61" Models)
57	5401662B	1	WELD, PIVOT DECK LIFT - RH - RED
58	5100634	4	PIVOT BLOCK, PLASTIC
59	5025013X22	4	BOLT, 3/8-16 X 2-3/4" GD5 CZ
60	5403925A	2	PLATE, PIVOT BLOCK SUPPORT - BLK

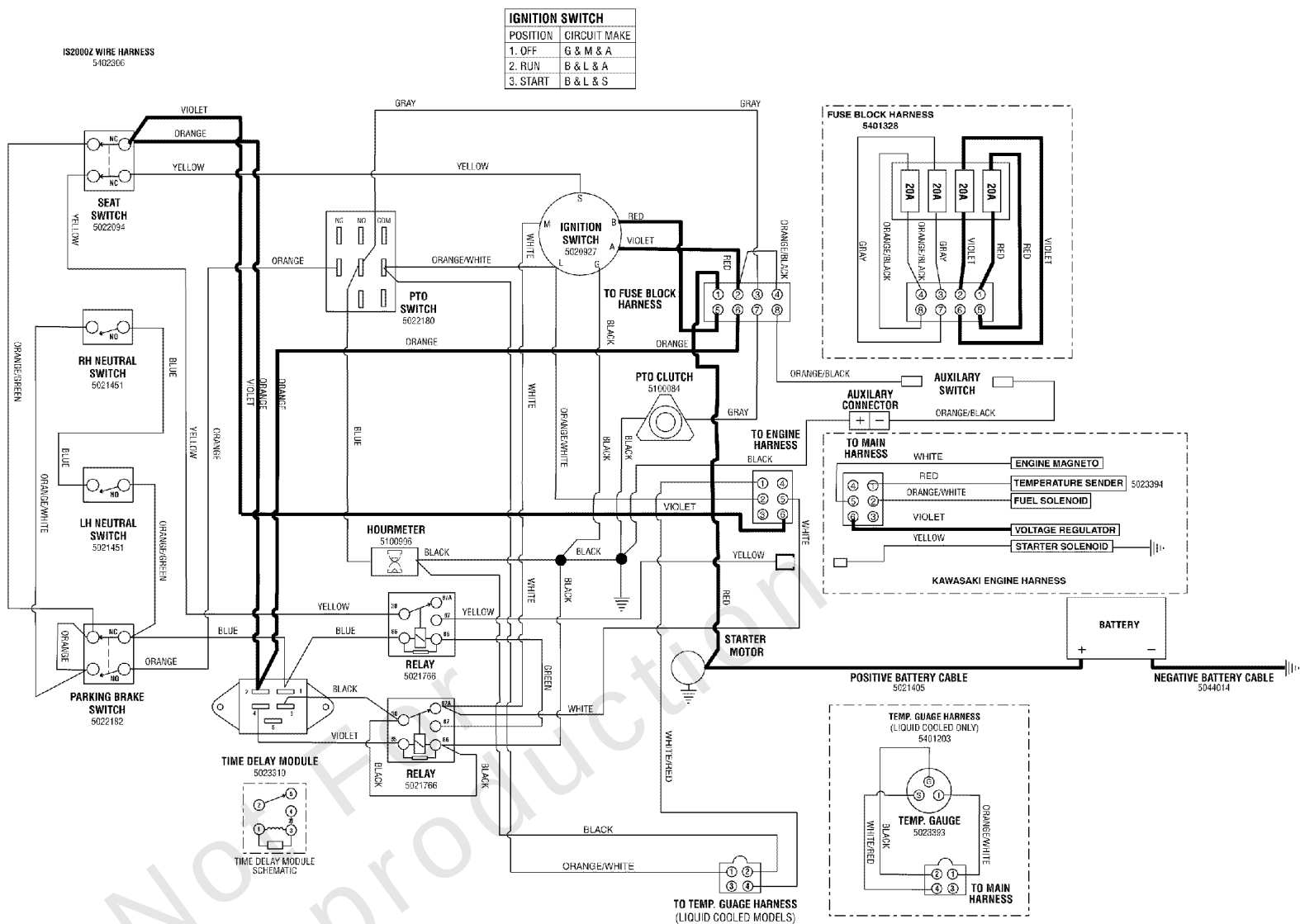
Footnotes:

* 61" models use double the qty.

Electrical Schematic - Charging Circuit - Kawasaki Liquid Cooled Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Electrical Schematic - Charging Circuit - Kawasaki Liquid Cooled Models

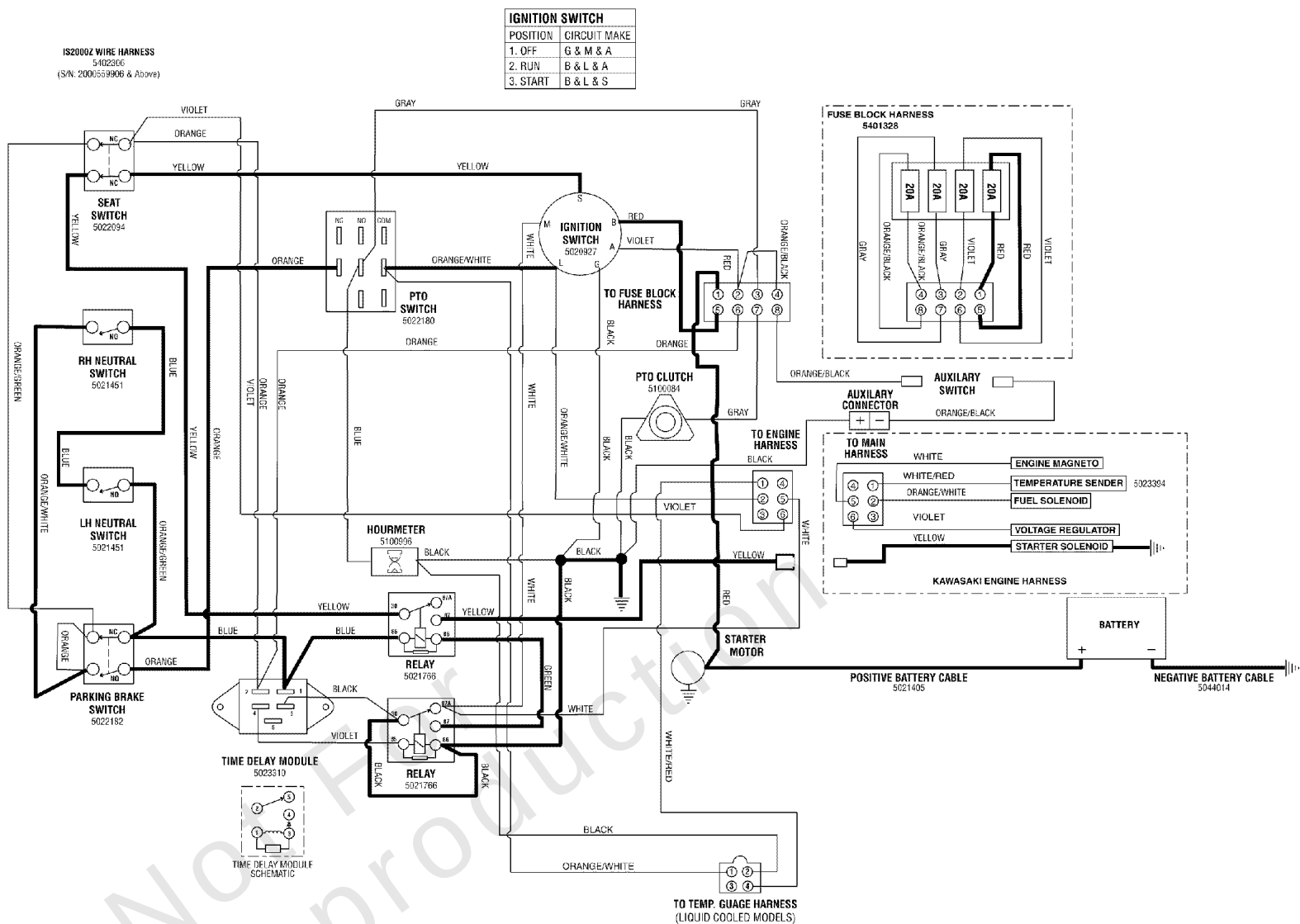
REF NO	PART NO	QTY	DESCRIPTION
5402306	5402306	1	WIRE HARNESS MAIN IS2000/COBALT
5401328	5401328	1	WIRE HARNESS, FUSE BLOCK - IS2000
5401203	5401203	1	JUMPER TEMP GUAGE

Not For Reproduction

Electrical Schematic - Cranking Circuit - Kawasaki Liquid Cooled Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Electrical Schematic - Cranking Circuit - Kawasaki Liquid Cooled Models

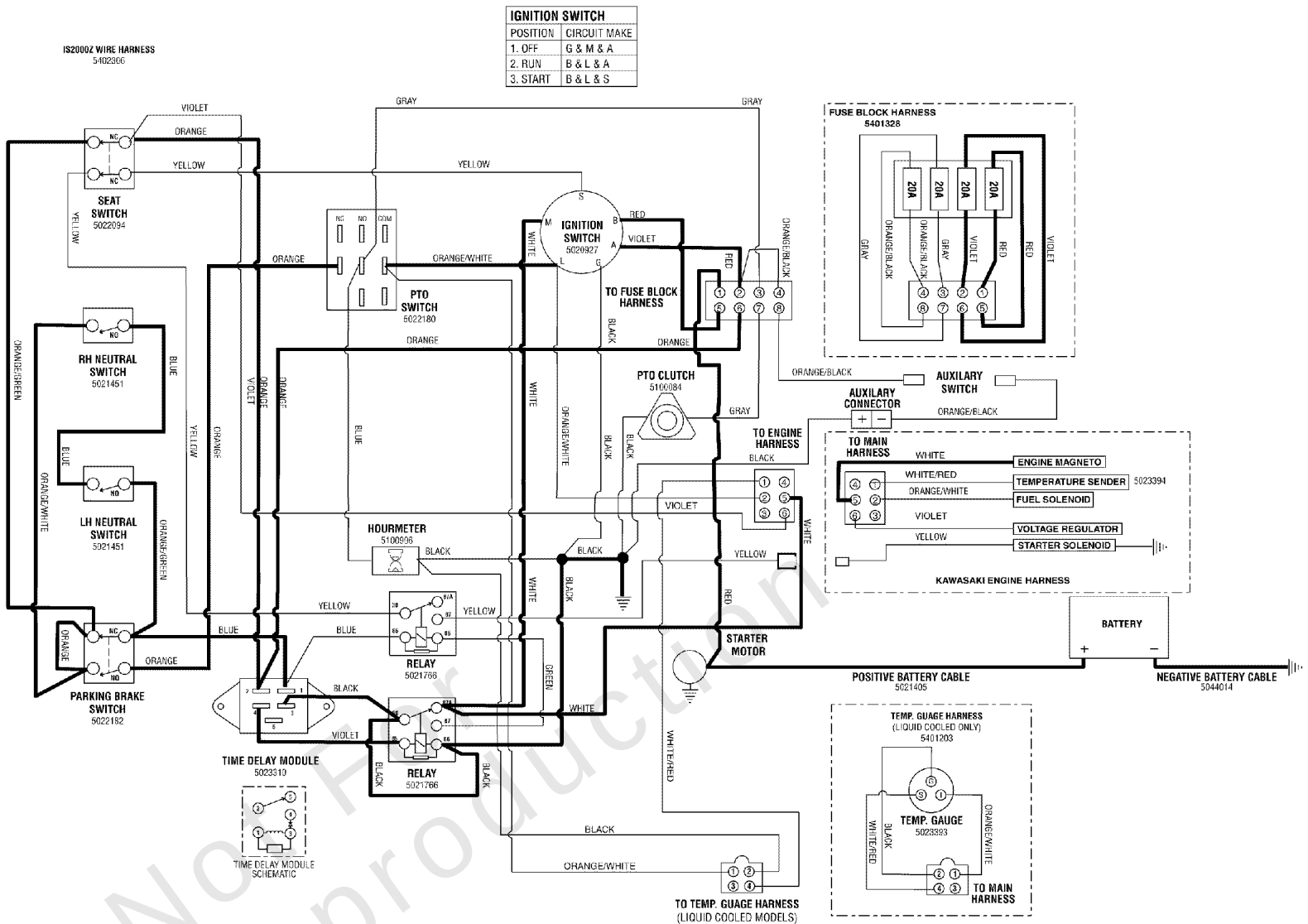
REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Electrical Schematic - Ignition Grounding/Op Presence - Kawasaki Liquid Cooled Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Electrical Schematic - Ignition Grounding/Op Presence - Kawasaki Liquid Cooled Models

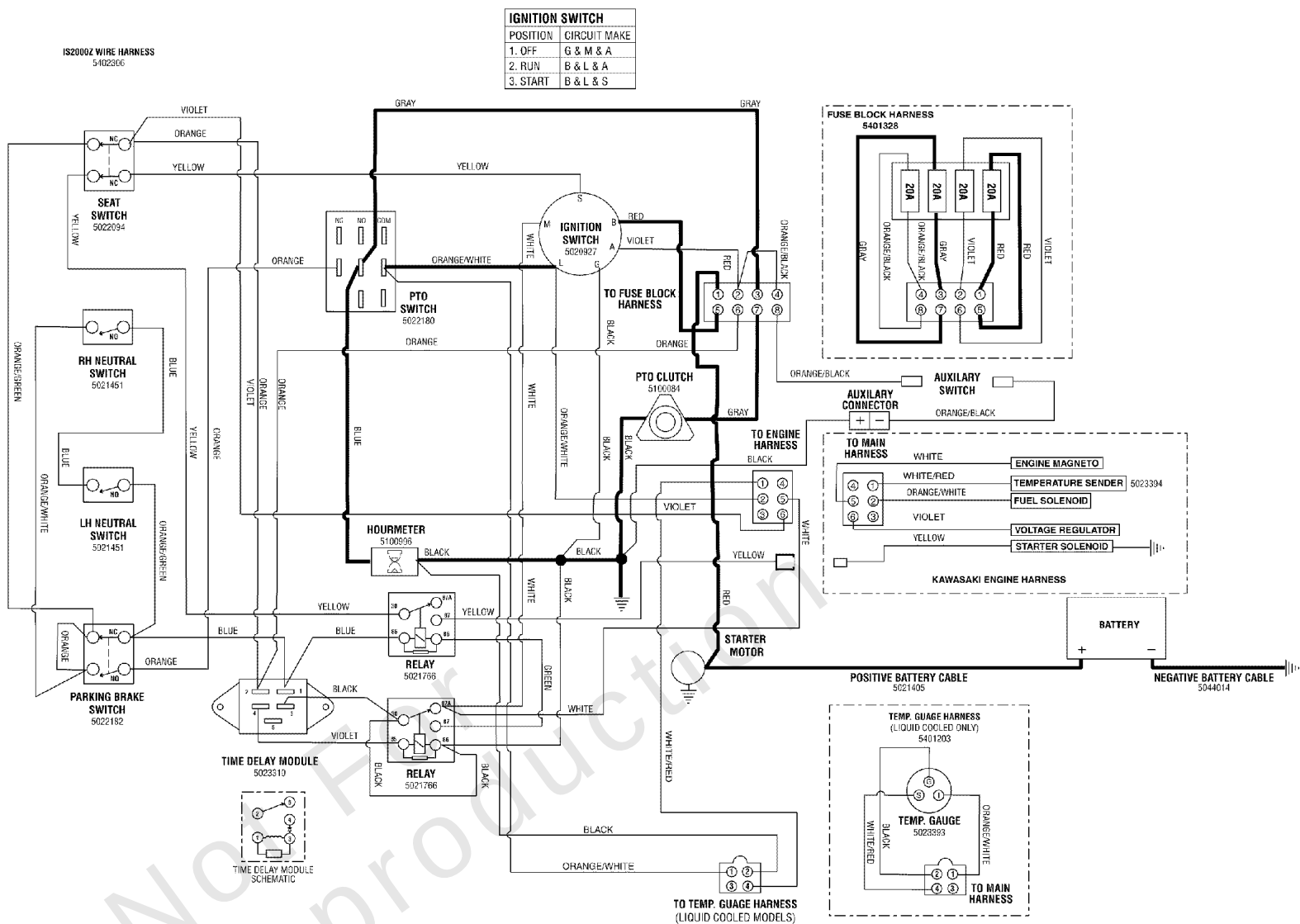
REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Electrical Schematic - PTO Clutch Circuit - Kawasaki Liquid Cooled Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Electrical Schematic - PTO Clutch Circuit - Kawasaki Liquid Cooled Models

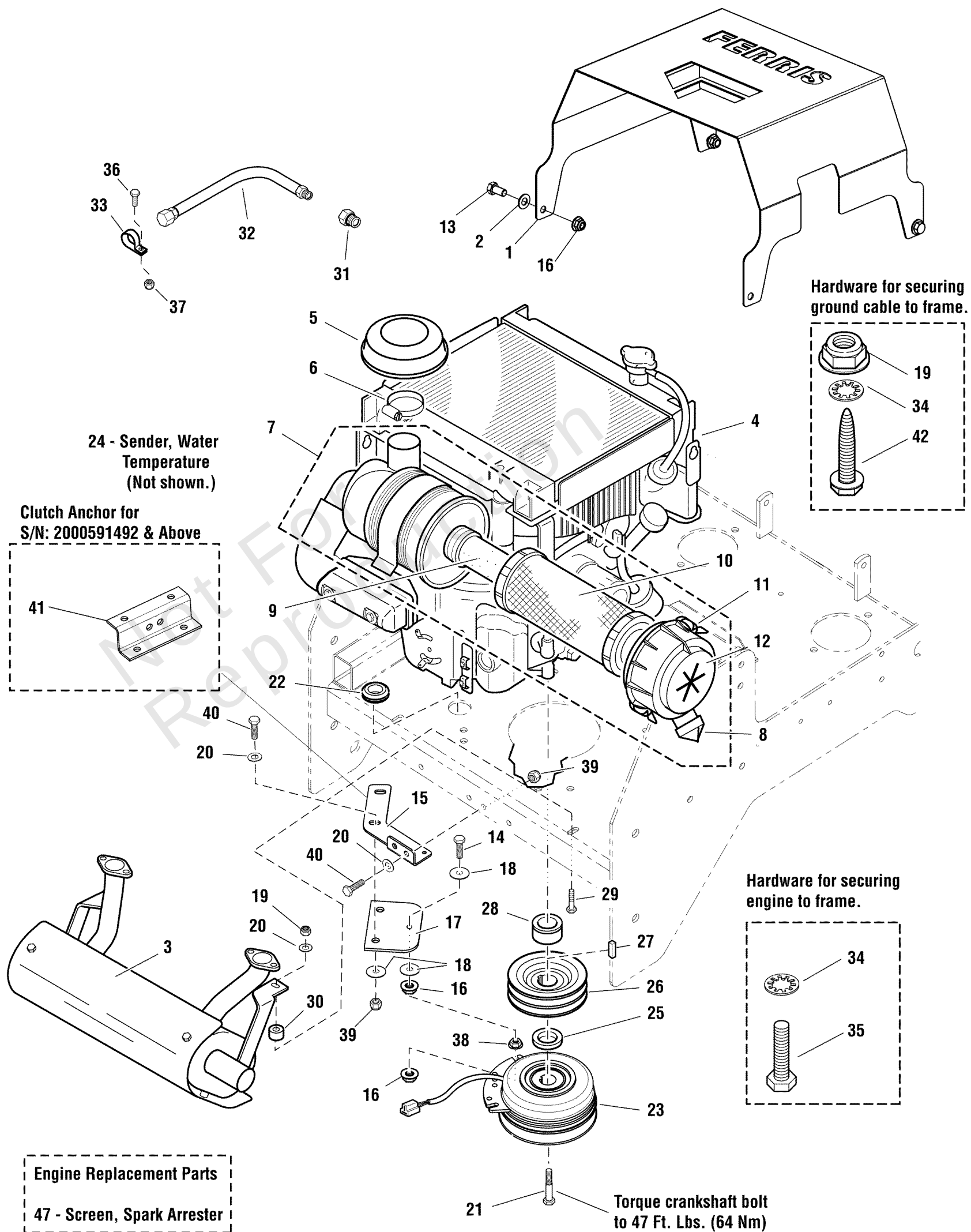
REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Engine & PTO Group - Kawasaki Liquid Cooled

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Engine & PTO Group - Kawasaki Liquid Cooled

REF NO	PART NO	QTY	DESCRIPTION
1	5401138B	1	GUARD, RADIATOR SCREEN PROTECTOR - RED
2	5025156	4	WASHER, 3/8 SAE
3	5061314	1	MUFFLER, KAWASAKI LC
4	-----	1	ENGINE, 26 HP KAWASAKI, LC
5	5023143	1	RAIN CAP
6	5023146	3	CLAMP
7	5023139	1	AIR FILTER ASSEMBLY, COMPLETE
8	5023144	1	RUBBER, Dust Valve
9	5023140	1	AIR FILTER, SECONDARY
10	5023141	1	AIR FILTER, PRIMARY
11	5023147	2	CLAMP, CAP
12	5023138	1	CAP, FILTER CASE
13	5025013X8	4	BOLT, 3/8-16 X 1" GD5 CZ
14	5025055X18	1	BOLT, 5/16-18 X 2-1/4 TFL, GD5 YZ
15	5061857B	1	PLATE, CLUTCH ANCHOR -(S/N: 2000591491 & Below)
16	5025394	8	NUT, 3/8-16 HEX NYLOCK FLANGE
17	5043636	1	CLUTCH ANCHOR PAD
18	5044617	4	WASHER, .34 X 1.25 X 10 GA
19	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE
20	5025155	4	WASHER, 5/16" SAE
21	5102855	1	BOLT, CRANKSHAFT, M10 X 65MM
22	5021379	1	GROMMET, 7/8
23	5105090	1	* CLUTCH, 5218-134, WARNER
24	5023394	1	SENDER, WATER TEMPERATURE -(Not shown.)
25	5100456	1	SPACER, 1.13 X 1.75 X .375
26	5047075	1	PULLEY, CRANKSHAFT (DOUBLE A)
27	5050407X8	1	KEY, 1/4 SQ X 1
28	5047033	1	SPACER, 1.13 X 1.75 X 1.03
29	5025011X14	2	BOLT, 5/16-18 X 1-3/4" GD5
30	5046446	2	SPACER, .39 X 1.00 X .80
31	5022234	1	ADAPTER, OIL DRAIN
32	5048681	2	HOSE, OIL DRAIN
33	5021500	1	CLAMP, VINYL
34	5025188	5	WASHER, 5/16" INT. TOOTH LOCK
35	5025237X25	4	BOLT, M8-1.25 X 25MM GD8.8
36	5025010X8	1	BOLT, 1/4-20 X 1" GD5 CZ
37	5025391	1	NUT, 1/4-20 HEX NYLOCK FLANGE
38	5025139	1	NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)
39	5025057	4	NUT 5/16-18 HEX NYLON LOCK
40	5025011X8	2	BOLT, 5/16-18 X 1" GD5 YZ
41	5046416A	1	ANCHOR, CLUTCH - BLK -(S/N: 2000591492 & Above)
42	5025059X8	1	BOLT, 5/16-18 X 1" , SELF-TAPPING
43	5023396X1	1	OIL FILTER, KAWI # 49065-2086 -(Not shown)
44	-----	1	SPRING CLIP, KAWI # 42144-2346 -(Not shown)
45	-----	1	SCREEN, BOTTOM, KAWI # 11053-2104-9H -(Not shown)

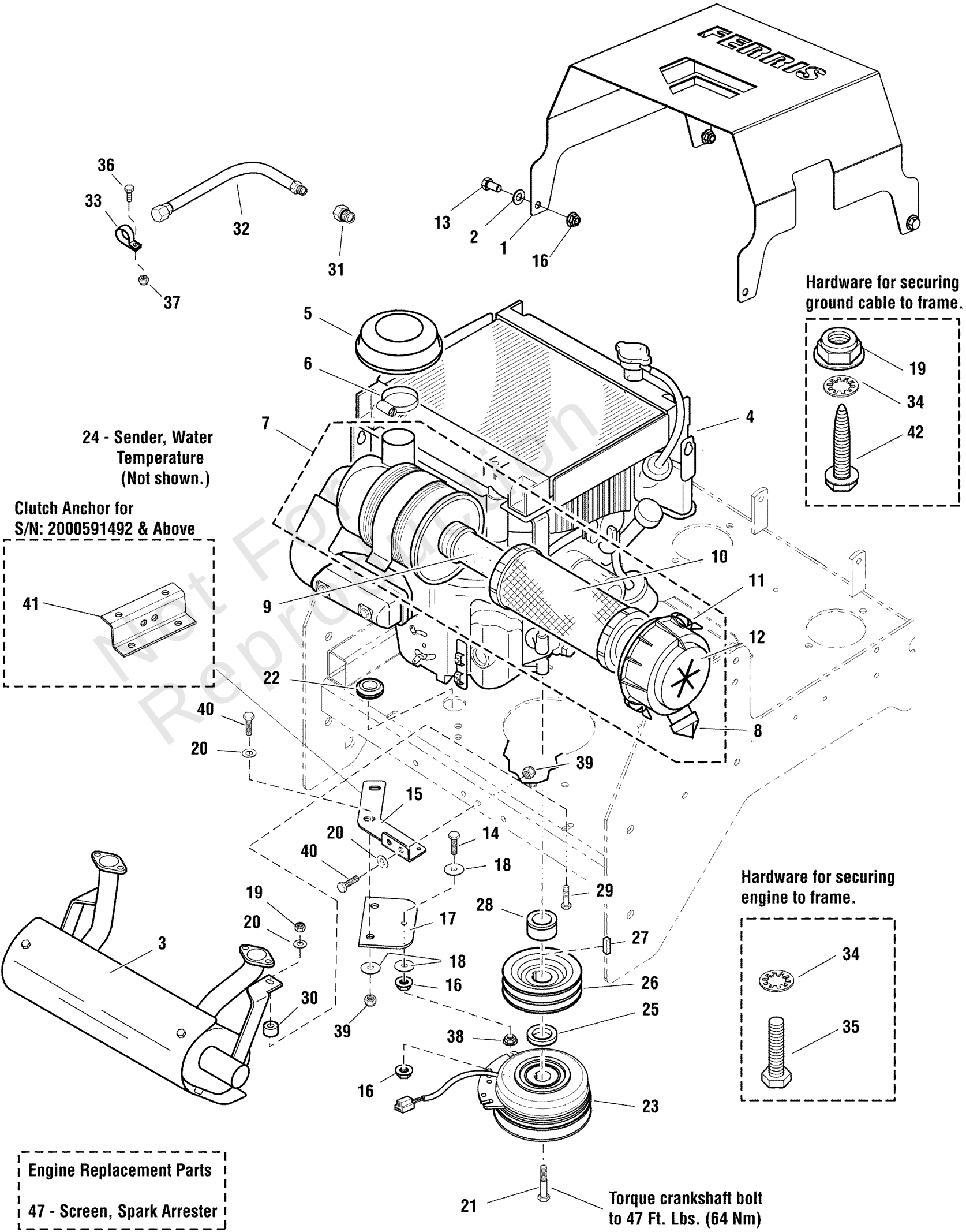
Footnotes:

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

Engine & PTO Group - Kawasaki Liquid Cooled

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Engine & PTO Group - Kawasaki Liquid Cooled

REF NO	PART NO	QTY	DESCRIPTION
46	-----	1	SCREEN, TOP, BUBBLE, KAWI # 14037-2146-9H -(Not shown)
47	-----	1	NO LONGER AVAILABLE - SCREEN, SPARK ARRESTER -(Not shown)
48	5101492	1	TIE,SELF-LOCKING, 24" -(Not Shown)

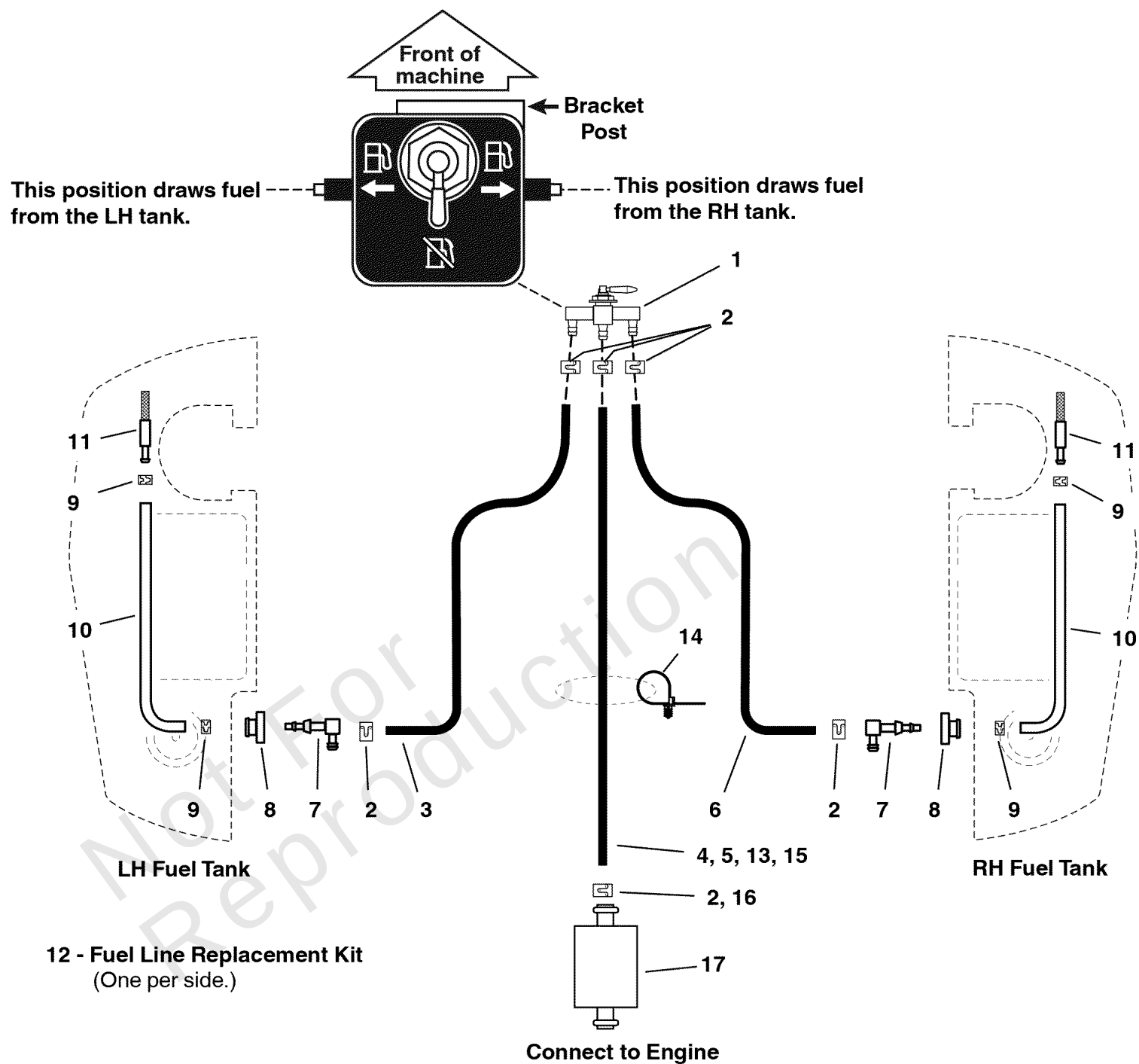
Not For
Reproduction

Footnotes:

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

Fuel Supply Hose & Tank Replacement Parts Group

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5900629



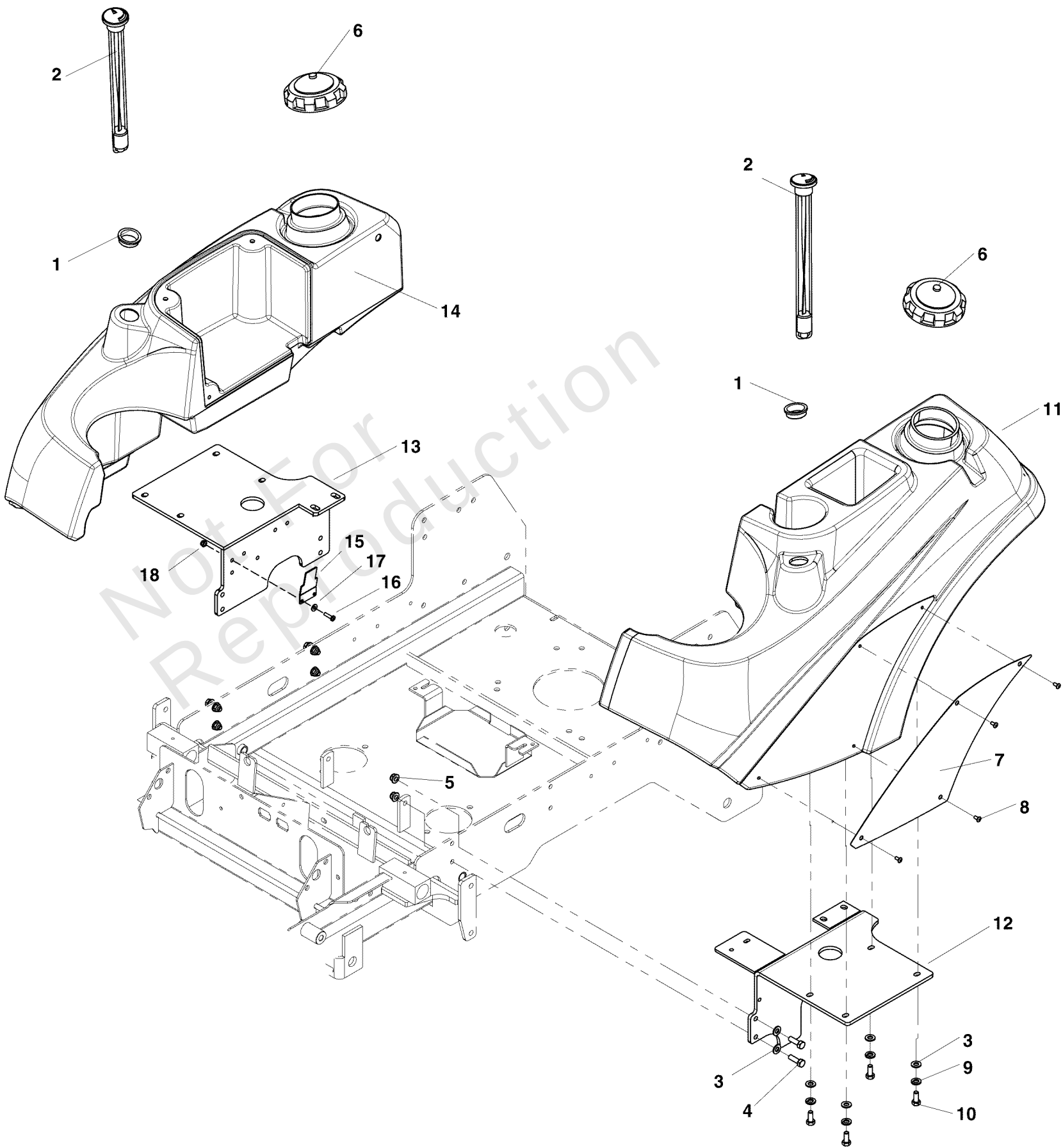
Fuel Supply Hose & Tank Replacement Parts Group

REF NO	PART NO	QTY	DESCRIPTION
1	5023358	1	VALVE, FUEL, STR. OUTLET
2	93807	6	CLAMP, HOSE, EXTERNAL, 1/2 - RED
3	5050831X35	1	HOSE, 1/4" FUEL, 35.00"
4	5050831X45	1	1/4" Fuel Line, 45" Long -(Kawasaki FH721V & Briggs & Stratton Models)
5	5050831X16	1	HOSE, 1/4" FUEL, 16.00" -(Kohler Models)
6	5050831X10	1	HOSE, 1/4" FUEL, 10.00"
7	-----	2	SEE REF # 10
8	1726400	2	BUSHING-FUEL TANK RED RUBBER
9	-----	4	SEE REF # 10
10	5101144	2	HOSE ASSEMBLY
11	-----	2	SEE REF # 10
12	5300047	2	ASSM, FUEL HOSE, 26
13	5050831X12	1	HOSE, 1/4" FUEL, 12.00 -(Kawasaki Liquid Cooled Models)
14	5021199	1	CABLE TIE-PUSH MOUNT -(Kawasaki FH721V & Briggs & Stratton Models)
15	5050831X37	1	HOSE, 1/4" FUEL, 37.00" -(Kawasaki Air Cooled Models)
16	5022922	1	CLAMP, #4 HOSE, STAINLESS -(Kawasaki Air & Liquid Cooled Models)
17	5021178X3	1	FUEL FILTER (SV) -(Not Shown)

Fuel Tank & Mount Group

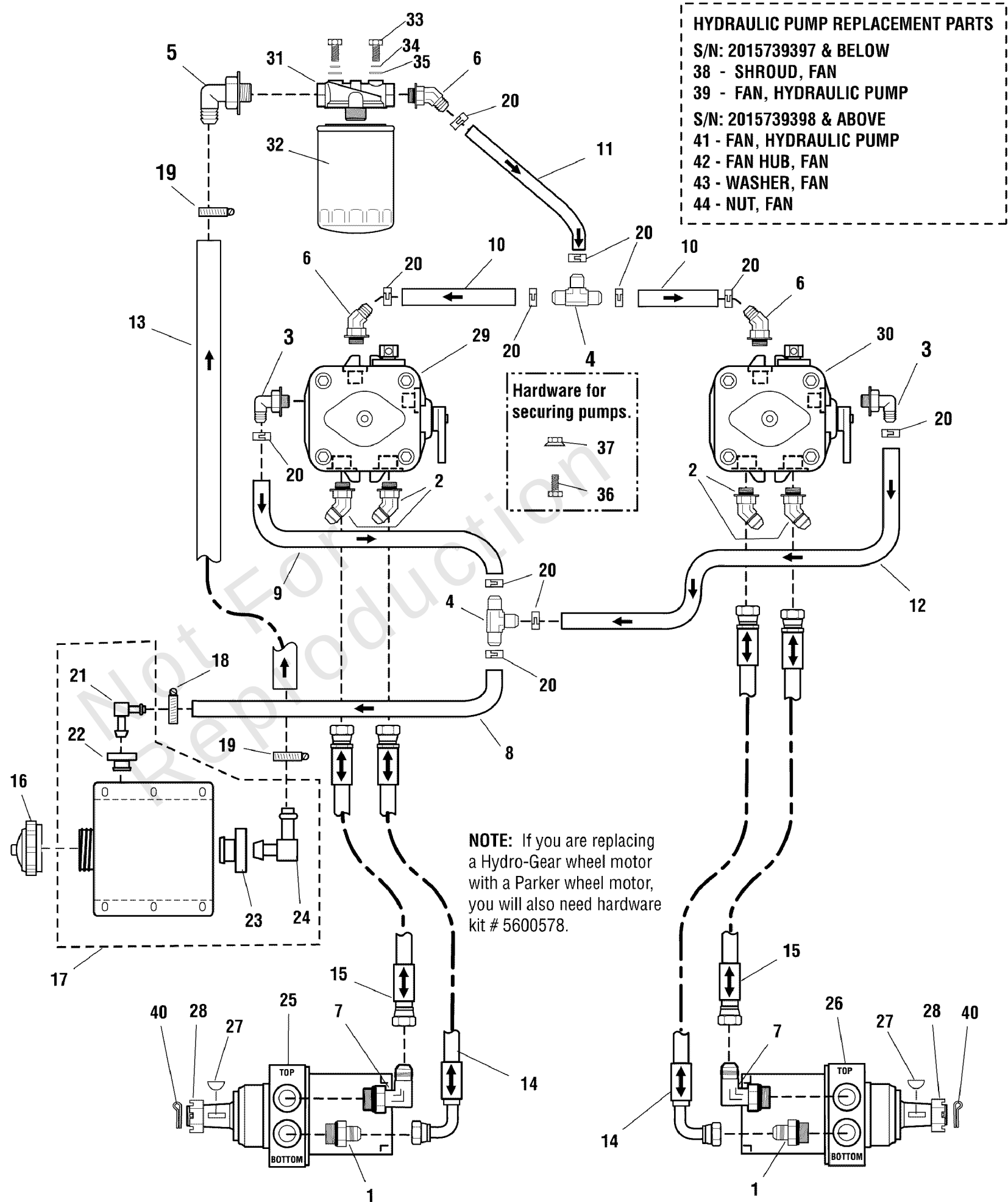
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Fuel Tank & Mount Group

REF NO	PART NO	QTY	DESCRIPTION
1	5022917X1	2	GROMMET, FUEL GUAGE
2	5022917	2	GAUGE, FUEL, 12
3	5025155	12	WASHER, 5/16" SAE
4	5025011X8	8	BOLT, 5/16-18 X 1" GD5 YZ
5	5025392	8	NUT, 5/16-18 X 1" GD5 YZ
6	5103005	2	FUEL CAP, 3-1/2", MANAGED VENT OUT, 12" -(S/N: 2014923026 & ABOVE)
6	5101651	2	CAP, GASOLINE, VENTED -(S/N: 2014923025 & BELOW)
7	5401095B	2	BADGE, IS2000 - IS3000 - RED
8	5025386	8	SCREW, #10-24 X 3/8" ALLEN BHBZ
9	5025170	8	WASHER, 5/16 LOCK CZ
10	5025011X6	8	BOLT, 5/16-18 X 3/4 GD5
11	5103178	1	TANK, FUEL, LH -(S/N: 2014923026 & ABOVE)
11	5100176	1	TANK, FUEL, LH -(S/N: 2014923025 & BELOW)
12	5408898A	1	WELD, TANK MOUNT - LH - BLK
13	5409577A	1	WELD, TANK MOUNT - RH - BLK -(S/N: 2015683595 & ABOVE)
13	5408901A	1	WELD, TANK MOUNT - RH - BLK -(S/N: 2015683594 & BELOW)
14	5103177	1	TANK, FUEL, RH -(S/N: 2014923026 & ABOVE)
14	5100175	1	TANK, FUEL, RH -(S/N: 2014923025 & BELOW)
15	5409349A	1	PLATE, FUSE BLOCK TAB -(S/N: 2015683595 & ABOVE)
16	5025179X6	2	SCREW, #10-24 X 3/4 ROUND -(S/N: 2015683595 & ABOVE)
17	1910531SM	2	WASHER, Rivet, 3/16 -(S/N: 2015683595 & ABOVE)

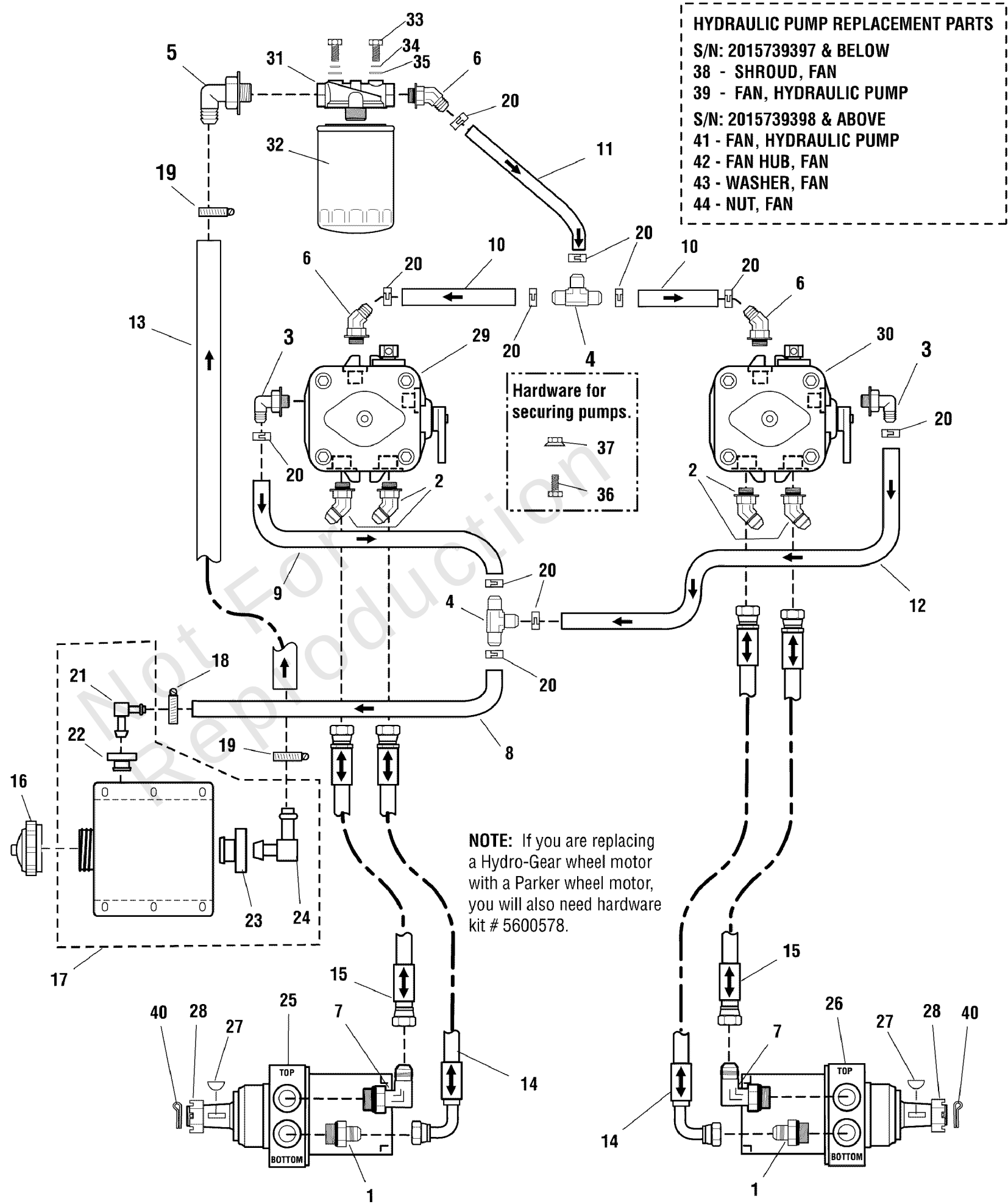


Hydraulic Group

REF NO	PART NO	QTY	DESCRIPTION
1	5022634	2	ADAPTER, HYD.
2a	5103509	4	FITTING, ELBOW, 22.5 DEG, #8JIC-#8 ORING -(S/N: 2015879469 & Above)
2b	5023338	4	FITTING, #8 JIC - #8 O-RING, 45 DEG. -(S/N: 2015879468 & Below)
3	5023267	2	ADAPTER, 90 DEG, 9/16-3/8 BARB
4	5022920	2	FITTING, TEE, 1/2 HOSE
5	5023346	1	ADAPTER, 90 DEG, 9/16-5/8 BARB
6	5023461	3	ADAPTER, 45 DEG, 9/16-3/8 BARB
7	5023276	2	FITTING, #10 ORING-#8 JIC, 90D
8	5050860X22	1	HOSE, 3/8" PUSH-LOCK, 22.00"
9	5050860X6P5	1	HOSE, 3/8" PUSH-LOCK, 6.50"
10	5050860X6	2	HOSE, 3/8" PUSH-LOCK, 6.00"
11	5050860X8	1	HOSE, 3/8" PUSH-LOCK, 8.00"
12	5050860X23	1	HOSE, 3/8" PUSH-LOCK, 23.00"
13	5050933X23P5	1	HOSE, 5/8" PUSH-LOCK, 23.50"
14a	5409635	2	HOSE ASSEMBLY, 25.50, HP, ST X 90 -(S/N: 2015879469 & Above)
14b	5102098	2	HOSE ASSEMBLY, (26.50) -(S/N: 2015879468 & Below)
15a	5409636	2	HOSE ASSEMBLY, (21.50), HP, ST X ST -(S/N: 2015879469 & Above)
15b	5102099	2	HOSE ASSEMBLY, 22.50" -(S/N: 2015879468 & Below)
16	5100017	1	CAP, HYDRAULIC
17	5061712	1	TANK, HYDRAULIC, ASSEMBLY -(Includes Ref. Nos 21-24)
18	5022922	1	CLAMP, #4 HOSE, STAINLESS
19	5021164	2	CLAMP, #10 HOSE, STAINLESS
20	5023268	11	CLAMP, HOSE
21	5023118	1	FITTING, ELBOW, 3/8"
22	1726400	1	BUSHING-FUEL TANK RED RUBBER
23	5023121	1	GROMMET
24	5023119	1	FITTING, ELBOW, 5/8"
25a	5102682	1	WHEEL MOTOR, RH, 14.5 CI-TF0240LS080AAKZ -(S/N: 2014450934 & ABOVE)
25b	-----	1	Use next serial number range wheel motors, fittings & kit #5600578. -(S/N: 2014450933 & BELOW) Was 5100407
26a	5102681	1	WHEEL MOTOR, LH, 14.5 CI-TF0240LS081AAKZ -(S/N: 2014450934 & ABOVE)
26b	-----	1	Use next serial number range wheel motors, fittings & kit #5600578. -(S/N: 2014450933 & BELOW) Was 5100410
27	5022042X2	2	KEY
28	5022042X3	2	NUT, CASTLE, 1-20
29a	5103443	1	PUMP, HYD12CC, LH NO FAN, PK-3KCQ-FVIX-XXXX -(S/N: 2015739398 & ABOVE)
29b	5102174	1	PUMP, HYD, 12CC - LH, PK-3HBQ-FV1F-XXXX -(S/N: 2015739397 & BELOW)
30a	5103444	1	PUMP, HYD12CC, RH NO FAN, PK-3KCQ-FVIX-XXXX -(S/N: 2015739398 & ABOVE)
30b	5102175	1	PUMP, HYD, 12CC - RH, PK-3KBQ-FV1F-XXXX -(S/N: 2015739397 & BELOW)
31	5023096	1	FILTER HEAD, HYDRAULIC

Footnotes:

* When installing this wheel motor on older units, you will need hardware kit # 5600578.



Hydraulic Group

REF NO	PART NO	QTY	DESCRIPTION
32	1719168	1	FILTER, OIL
33	5025010X6	2	BOLT, 1/4"-20 X 3/4" GD5 YZ
34	5025154	2	WASHER, 1/4 SAE
35	5025169	2	WASHER, 1/4 LOCK
36	5025013X10	4	BOLT, 3/8-16 X 1-1/4" GD5 CZ
37	5025128	4	NUT, 3/8-16 HEX SERRATED FLANGE
38	5100162	2	SHROUD, FAN
39	5022571X1	2	FAN, HYD. PUMP
40	5025203X16	2	PIN, COTTER, 1/8" X 2"
41	5103231	2	FAN, 8.31", 16CC HYDRO-GEAR PUMP
42	5103250X2	2	FAN HUB, 16CC PUMP
43	5103250X1	2	WASHER, 16CC PUMP
44	5103444X1	2	LOCK NUT,NLYON INSERT 5/16-24,GRD8, 5010

Not For
Reproduction

Footnotes:

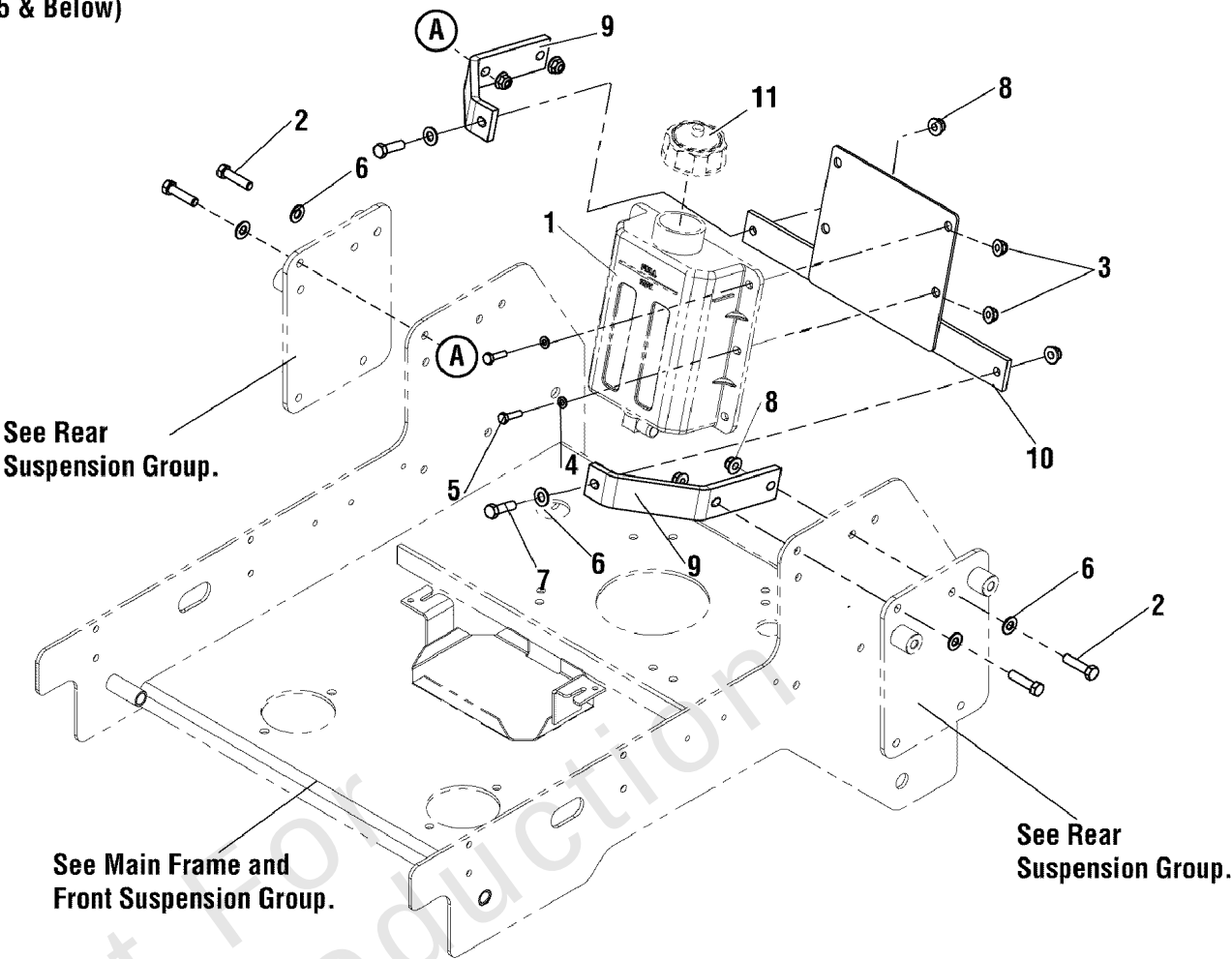
* When installing this wheel motor on older units, you will need hardware kit # 5600578.

Hydraulic Mount Group

Note: Unless noted otherwise, use the standard torque specifications

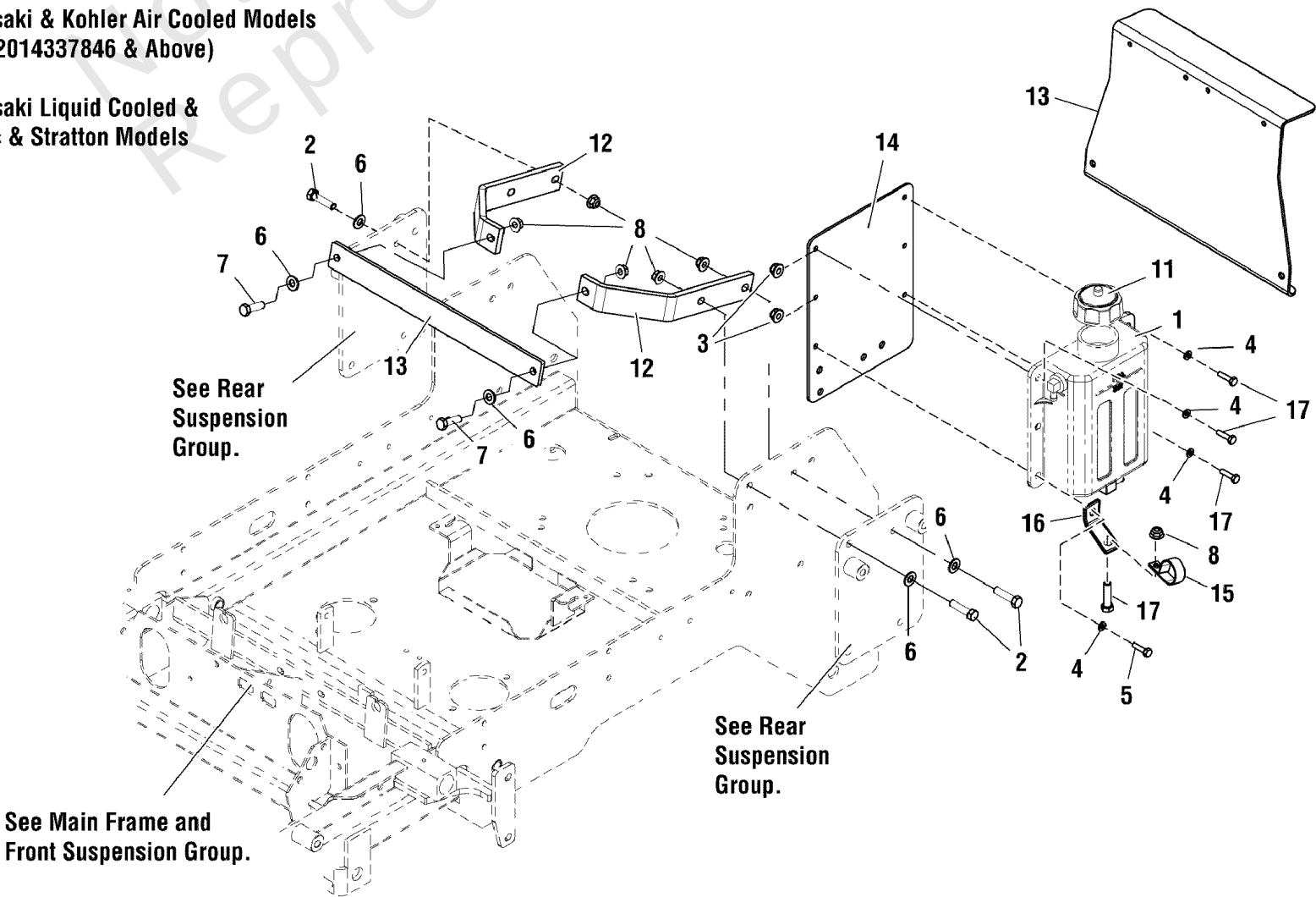
Mfg. No: 5900629

Kawasaki & Kohler Air Cooled Models
(S/N: 2014337845 & Below)



Kawasaki & Kohler Air Cooled Models
(S/N: 2014337846 & Above)

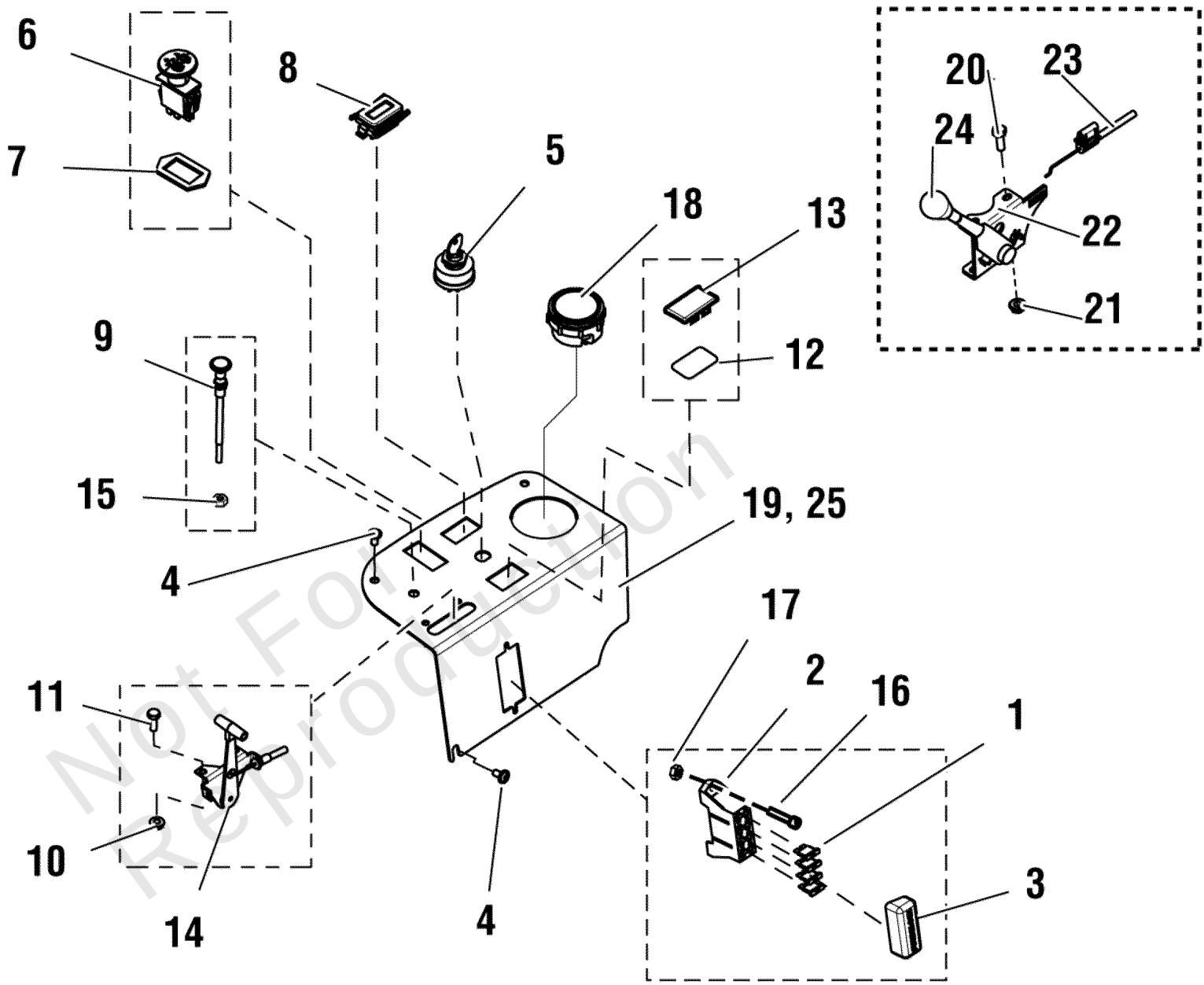
Kawasaki Liquid Cooled &
Briggs & Stratton Models



Hydraulic Mount Group

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	TANK, HYDRAULIC, ASSEMBLY (See Hydraulic Group)
2	5025013X12	4	BOLT, 3/8-16 X 1-1/2" GD5 CZ
3	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE
4	5025154	4	WASHER, 1/4 SAE
5	5025010X8	1	BOLT, 1/4-20 X 1" GD5 CZ
6	5025156	6	WASHER, 3/8 SAE
7	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
8	5025394	6	NUT, 3/8-16 HEX NYLOCK FLANGE
9	5061746B	2	BRACKET, HYDRAULIC TANK
10	5400654B	1	WELD, HYD TANK MOUNT - RED
11	-----	1	CAP, HYDRAULIC (See Hydraulic Group)
12	5401952B	2	BAR, STABILIZER, SIDE - RED
13a	5408215A	1	BRACKET, CANISTER MOUNT, IS2000 - BLK -(Evap Canister Equipped Models)
13b	5401955B	1	BAR, STABILIZER, CENTER - RED -(Non-Evap Canister Equipped Models)
14	5401954B	1	PLATE, HYDRAULIC TANK MOUNT - RED
15	5021500	2	CLAMP, VINYL INSULATED
16	5401736A	1	BRACKET, HOSE - BLK
17	5025010X6	4	BOLT, 1/4-20 X 3/4" GD5

S/N: 2012617339
& Above



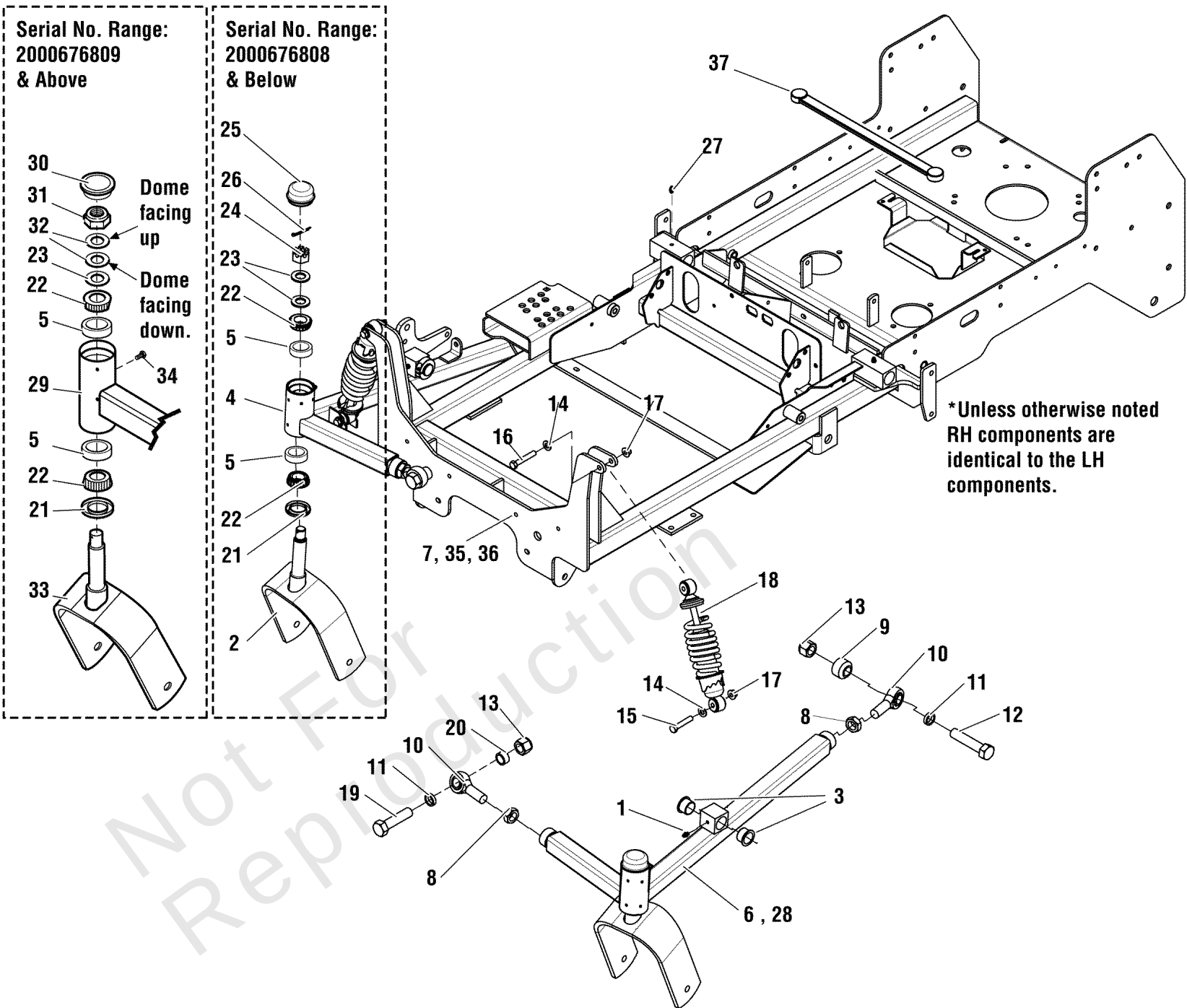
Instrument & Control Panel Group - Kawasaki Liquid Cooled Models

REF NO	PART NO	QTY	DESCRIPTION
1	5021603	4	FUSE, ATO 20 AMP
2	5021518	1	FUSE, BLOCK
3	5022805	1	COVER, VINYL FUSEBLOCK
4	5025299X4	3	SCREW, 1/4-20 X 1/2" ALLEN BH
5	5020927	1	SWITCH, IGNITION, 6 POST
6	5022180	1	SWITCH, BLADE ENGAGEMENT
7	5022222	1	RING, SWITCH RETAINER
8	5102417	1	HOUR METER
9	5046501	1	CABLE, CHOKE CONTROL, 47"
10	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
11	5025010X6	2	BOLT, 1/4-20 X 3/4" GD5 YZ
12	5022269	1	O-RING, 7/8" ID X 1/16"
13	1709188	1	PLUG, .820X1.44 HOLE, BLACK PLASTIC
14	5021887	1	CABLE, THROTTLE CONTROL, 45" -(S/N: 2012617338 & Below)
15	5025035SM	1	NUT (3/8-24 HEX)
16	5025270X16	2	SCREW, #10-24 X 2" ROUND PHILLIPS
17	5025271	2	NUT, #10-24 HEX NYLON LOCK
18	5023393	1	GUAGE, WATER TEMPERATURE
19	5401956A	1	PANEL, CONTROL, IS2000Z 26/61 - BLK -(S/N: 2012617338 & Below)
20	5025179X6	2	SCREW, #10-24 X 3/4" -(S/N: 2012617339 & Above)
21	5025271	2	NUT, #10-24 HEN NYLON LOCK -(S/N: 2012617339 & Above)
22	5101537	1	LEVER, THROTTLE CONTROL, HEAVY-DUTY -(S/N: 2012617339 & Above)
23	5101073	1	CABLE, THROTTLE, 42" -(S/N: 2012617339 & Above)
24	5046360X1	1	THROTTLE CONTROL HANDLE/KNOB -(S/N: 2012617339 & Above)
25	5403401A	1	PANEL, CONTROL, IS2000Z LC -(S/N: 2012617339 & Above)

Main Frame & Front Suspension Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Main Frame & Front Suspension Group

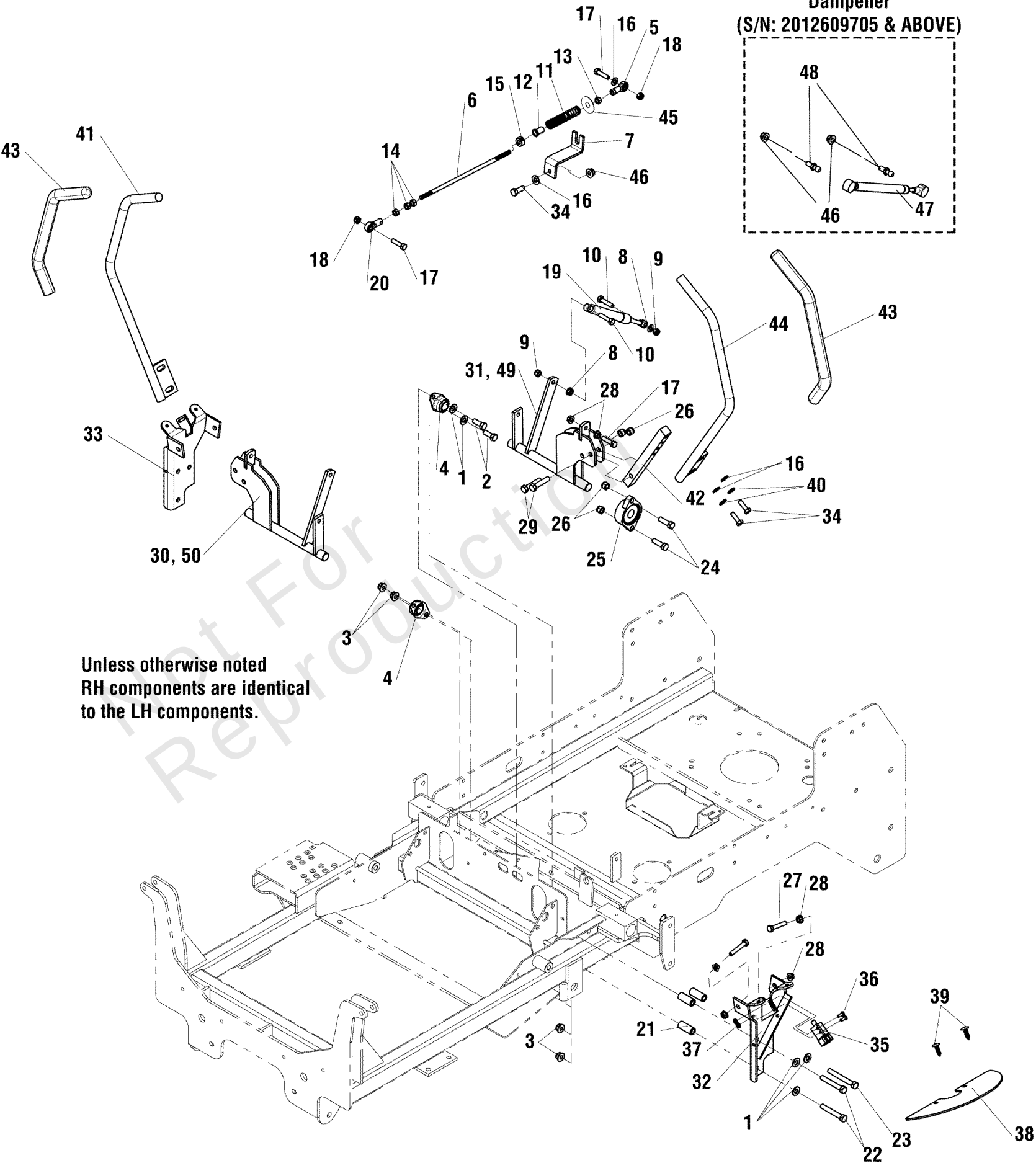
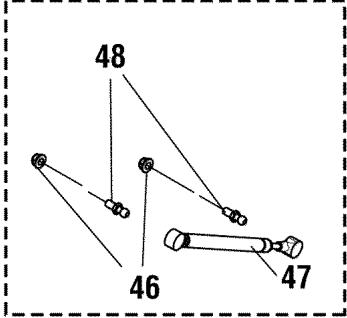
REF NO	PART NO	QTY	DESCRIPTION
1	5020095	2	GREASE FITTING, 1/4-28 STRAIGHT
2	5047049B	2	WELD, CASTER YOKE -(S/N: 2000676808 & Below)
3	5023356	4	BUSHING, 1.00X1.13X.75, PLA -(Qty: 2 per suspension arm)
4	5400566	1	WELD, FRONT A-ARM - RH - RED -(S/N: 2000676808 & Below)
5	5020883	4	BEARING CUP
6	5400563	1	WELD, FRONT A- ARM - LH - RED -(S/N: 2000676808 & Below)
7	5401623B	1	WELD, MAIN FRAME, IS2000 - RED -(S/N: 2012612074 & Below)
8	5025093	4	NUT, HEX JAM, 3/4-16
9	5046093	2	SPACER, .75 X 1.50 X 1.00
10	5022039	4	BALL JOINT, 3/4-16 MALE
11	5047461	4	SPACER, .76 X 1.00 X .25
12	5025265X28	2	BOLT, 3/4-16 X 3-1/2" YZ GD5
13	5025284	4	NUT, 3/4-16 HEX NYLON LOCK
14	5025156	4	WASHER, 3/8 SAE
15	5025013X16	2	BOLT, 3/8-16 X 2, GD5, CZ
16	5025013X18	2	BOLT, 3/8-16 X 2-1/4" GD5 CZ
17	5025394	4	NUT, 3/8-16 HEX NYLOCK FLANGE
18	5023436	2	SHOCK ABSORBER
19	5025265X24	2	BOLT, 3/4-16 X 3" YZ GD5
20	5046011	2	SPACER, .76 X 1.00 X .50
21	5021072	2	SEAL, GREASE
22	5020884	4	BEARING, TAPPERD ROLLER, 1"
23	5025160	4	WASHER, 3/4 SAE
24	5025104	2	NUT, 3/4-16 HEX SLOTTED -(S/N: 2000676808 & Below)
25	5021073	2	CAP, DUST -(S/N: 2000676808 & Below)
26	5025203X10	2	PIN, COTTER, 1/8 X 1-1/4 -(S/N: 2000676808 & Below)
27	5020020	2	GREASE FITTING, 1/4-28 45 DEGREE
28	5402214B	1	WELD, FRONT A-ARM - LH -RED -(S/N: 2000676809 & Above)
29	5402215B	1	WELD, FRONT A-ARM - RH -RED -(S/N: 2000676809 & Above)
30	5109845	2	CAP, GREASE, LOW PROFILE -(S/N: 2000676809 & Above)
31	5025448	2	NUT, 3/4-16, HEX JAM NYLON LOCK -(S/N: 2000676809 & Above)
32	5025449	4	BELLEVILLE WASHER, 1.500 X .755 -(S/N: 2000676809 & Above)
33	5402208B	2	WELD, CASTER YOKE - RED -(S/N: 2000676809 & Above)
34	5025457	2	BOLT, 1/4-28 X 1/2, GD5 YZ -(S/N: 2000676809 & Above)
35	5403761B	1	WELD, MAIN FRAME, IS2000 - RED -(S/N: 2012612075 & 2013043646)
36	5404097B	1	WELD, MAIN FRAME, IS2000/COBALT - RED -(S/N: 2013043647 & Above)
37	1722009	1	STRAP-BLACK RUBB

Motion Control Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629

Dampener
(S/N: 2012609705 & ABOVE)



Motion Control Group

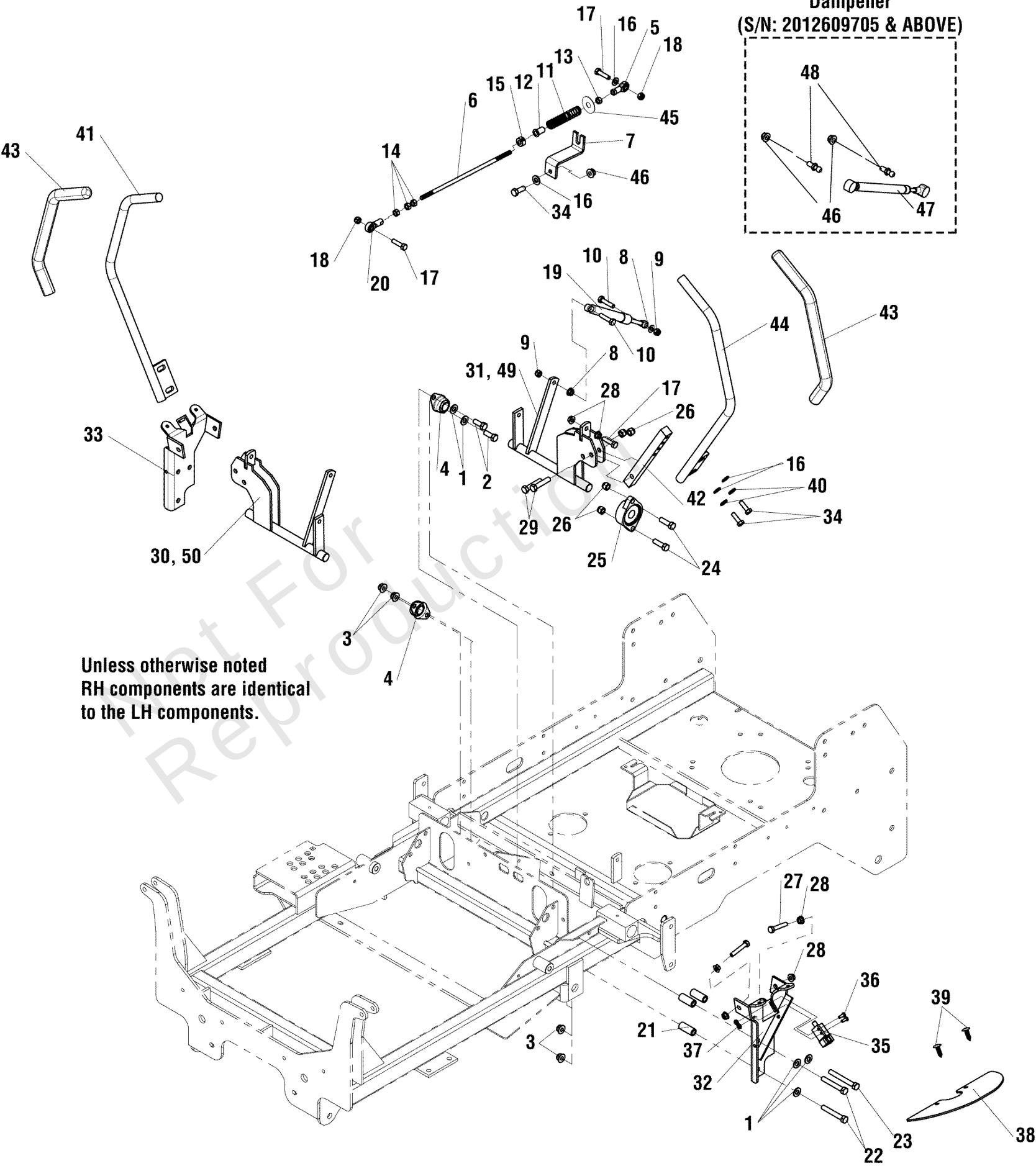
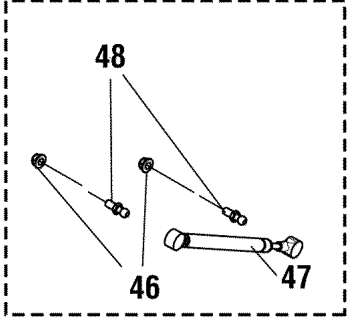
REF NO	PART NO	QTY	DESCRIPTION
1	5025156	10	WASHER, 3/8 SAE
2	5025013X8	8	BOLT, 3/8-16 X 1" GD5 CZ
3	5025394	6	NUT, 3/8-16 HEX NYLOCK FLANGE
4	5021098	2	BEARING, BRONZE FLANGE 3/4"
5	5104494	2	BALL JOINT 5/16-24 LH FEMALE BRONZE RACE
6	5046420	2	ROD, HYDRO LINKAGE
7	5400653A	2	MOUNT, REVERSE RETURN - BLK
8	5025355	4	NUT, M8-1.25 SERR. FLANGE, CZ
9	5025354	3	NUT, M8-1.25 NYLON LOCK, CZ
10	5025335	4	BOLT, M8-1.25 X 35MM, GD8.8 -(S/N: 2012609704 & BELOW)
11	5022645	2	SPRING, REVERSE RETURN
12	5023260	2	BUSHING, NYLON
13	5023212	2	NUT, 5/16 HEX LH
14	5025033	6	NUT, HEX 5/16-24
15	5020047	2	COLLAR, 5/16" SET
16	5025155	11	WASHER, 5/16" SAE
17	5025011X10	6	BOLT, 5/16-18 X 1-1/4" GD5 YZ
18	5025057	4	NUT 5/16-18 HEX NYLON LOCK
19	5022978	2	DAMPENER
20	5104493	1	BALL JOINT 5/16-24 RH FEMALE BRONZE RACE -(S/N: 2012609704 & BELOW)
21	5048264	6	SPACER, .63 X .39 X 1.50
22	5025013X20	4	BOLT, 3/8-16 X 2-1/2" GD5 CZ
23	5025013X24	2	BOLT, 3/8-16 X 3" GD5 CZ
24	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
25	5021499	2	BEARING, FLANGE
26	5025096	8	NUT, 3/8-16 HEX NYLON LOCK
27	5025055X14	4	BOLT, 5/16-18 X 1-3/4" GD5 TFL
28	5025127	12	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
29	5025013X14	4	BOLT, 3/8-16 X 1-3/4" GD5 CZ
30	5400570B	1	WELD, CONTROL SHAFT - RH - RED -(S/N: 2012609704 & BELOW)
31	5400573B	1	WELD, CONTROL SHAFT - LH - RED -(S/N: 2012609704 & BELOW)
32	5409640A	1	WELD, NEUTRAL LOCK, LH - BLK
33	5409641A	1	WELD, NEUTRAL LOCK, RH - BLK
34	5025011X8	6	BOLT, 5/16-18 X 1" GD5 YZ
35	5021451	2	SWITCH, PLUNGER, N.O.
36	5025179X4	4	SCREW, #10-24 X 1/2" ROUND SLOTTED
37	5025029	4	NUT, #10-24 HEX
38	5401248	2	GUARD, RUBBER MOTION CONTROLS
39	5025431	4	PUSH RIVET (TREE TYPE) BLACK
40	5025170	4	WASHER, 5/16 LOCK CZ
41	5400637A	1	WELD, HANDLE MOTION CONTROL RH - BLK
42	5047004A	2	MOUNT, CONTROL ARM - BLK -(9.0" Total Length, 4 Adjustment Holes)
43	5022068	2	GRIP, FOAM, 3/4" ID, 16" LONG
44	5400636A	1	WELD, HANDLE MOTION CONTROL LH - BLK
45	5025424	2	WASHER, 3/8 X 1" X 1/16, NYLON F/W
46	5025392	6	NUT, 5/16-18 HEX NYLON FLANGE
47	5100940	2	DAMPENER, CONTROL -(S/N: 2012609705 & ABOVE)

Motion Control Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629

Dampener
(S/N: 2012609705 & ABOVE)



Motion Control Group

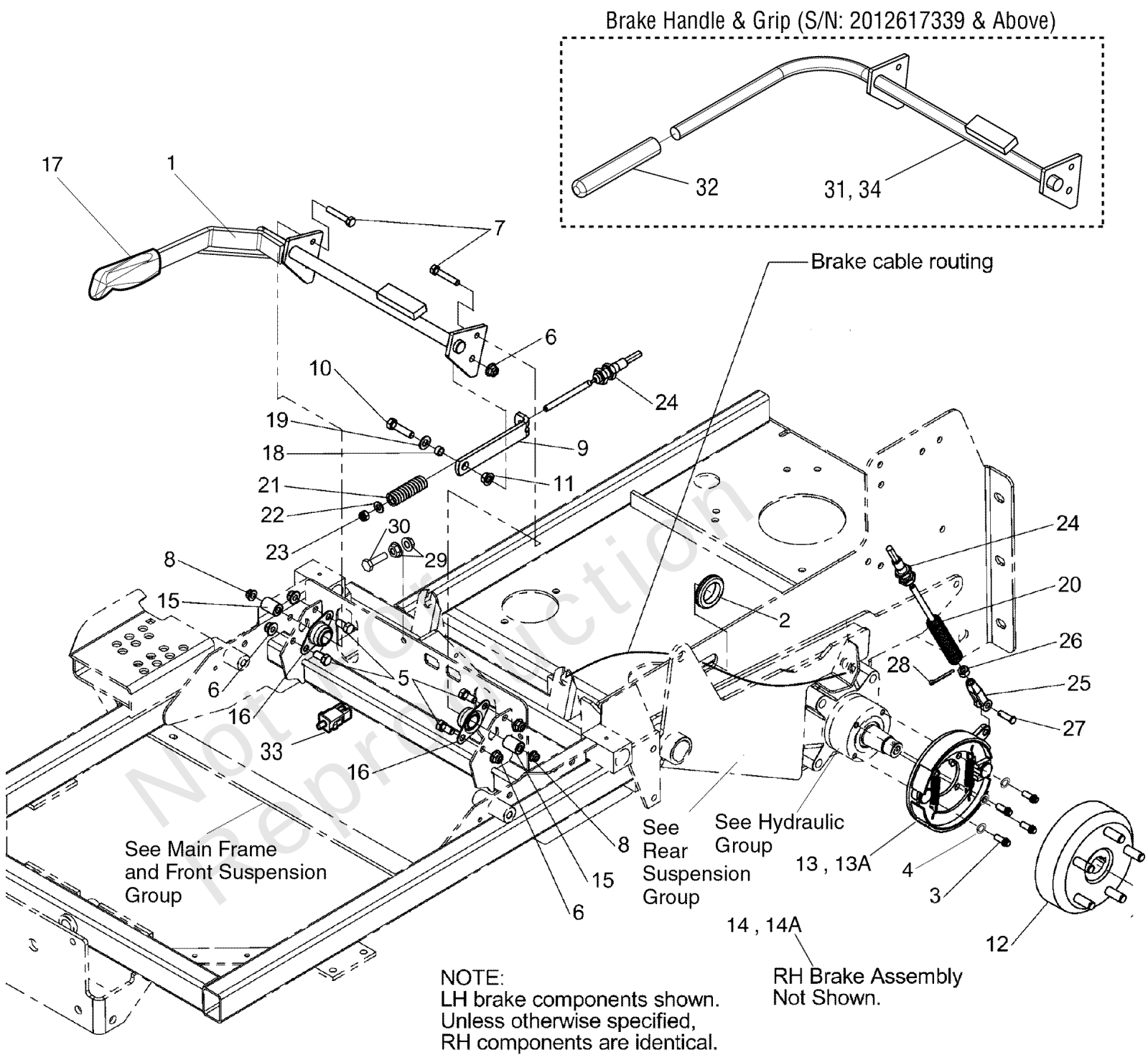
REF NO	PART NO	QTY	DESCRIPTION
48	5101307	4	10MM BALL STUD, 5/16-18 X 3/4 -(S/N: 2012609705 & ABOVE)
49	5403619A	1	WELD, CONTROL SHAFT, LH - BLK -(S/N: 2012609705 & ABOVE)
50	84008453	1	SHAFT, Control -(S/N: 2012609705 & ABOVE)

Not For Reproduction

Parking Brake Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Parking Brake Group

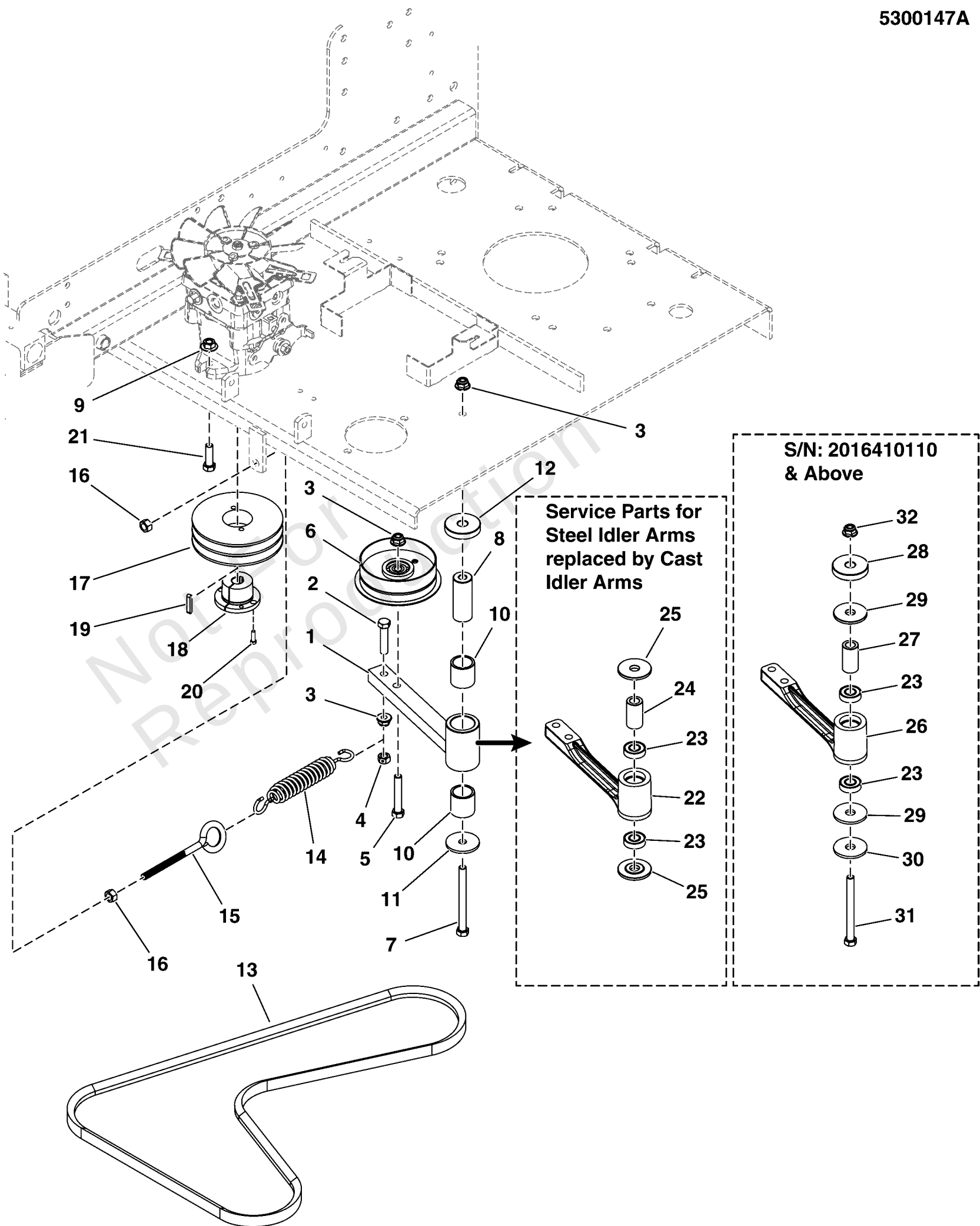
REF NO	PART NO	QTY	DESCRIPTION
1	5401330B	1	WELD, BRAKE SHAFT - RED -(S/N: 2012617338 & Below)
2	5021397	2	GROMMET, 1-1/4"
3	5023490	8	BOLT, 5/16-18 X 3/4 12PT FLANGE - PATCH
4	5025170	8	WASHER, 5/16 LOCK CZ
5	5025013X6	4	BOLT, 3/8-16 X 3/4" GD5 CZ
6	5025394	6	NUT, 3/8-16 HEX NYLOCK FLANGE
7	5025011X14	2	BOLT, 5/16-18 X 1-3/4" GD5 YZ
8	5025392	2	NUT, 5/16-18 Hex Nylock Flange
9	5047084A	2	LINK, BRAKE LOCK - BLK
10	5025013X12	2	BOLT, 3/8-16 X 1-1/2" GD5 CZ
11	5025128	2	NUT, 3/8-16 HEX SERRATED FLANGE
12	5102896YP	2	BRAKE DRUM, 5 BOLT
12-1	5102896X1	5	STUD BRAKE DRUM KNOTT -(Replacement Brake Stud with 30 tooth knurl.)
13A	5023500	1	BRAKE ASSEMBLY, LH -(S/N: 2015208611 & Below)
13	5102897	1	BRAKE SHOE ASM, LH, KNOTT -(S/N: 2015208612 & Above)
14A	5023501	1	BRAKE ASSEMBLY, RH -(Not Shown - S/N: 2015208611 & Below)
14	5102898	1	BRAKE SHOE ASM, RH, KNOTT -(Not Shown - S/N: 2015208612 & Above)
15	5042134	2	SPACER, .32 X .75 X 1.06
16	5021098	2	BEARING, BRONZE FLANGE, 3/4
17	5100171	1	GRIP, BLACK FLEXIBLE -(S/N: 2012617338 & Below)
18	5041930	2	SPACER, .38 X .50 X .27
19	5025156	2	WASHER, 3/8 SAE
20	5023320	2	SPRING, COMPRESSION
21	5048719	2	SPRING, COMPRESSION
22	5025155	2	WASHER, 5/16" SAE
23	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
24	5100115	2	CABLE, PARKING BRAKE IS2000
25	5020979	2	CLEVIS, 5/16-24, PLASTIC
26	5025033	2	NUT, 5/16-24 HEX
27	5025213X8	2	CLEVIS PIN, 5/16" X 1"
28	5025203X10	2	PIN, COTTER, 1/8 X 1-1/4
29	5025139	2	NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)
30	5025011X10	1	BOLT, 5/16-18 X 1-1/4"GD5 YZ
31	5403551B	1	WELD, BRAKE SHAFT - RED -(S/N: 2012617339 & 2013043646)
32	5101038	1	GRIP, FOAM, 3/4 ID X 6 X .187 -(S/N: 2012617339 & Above)
33	7022886	1	SWITCH, DP NO/NC SNAP-IN
34	5403948A	1	WELD, BRAKE SHAFT - BLK -(S/N: 2013043647 & Above)

Pump Drive Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629

5300147A



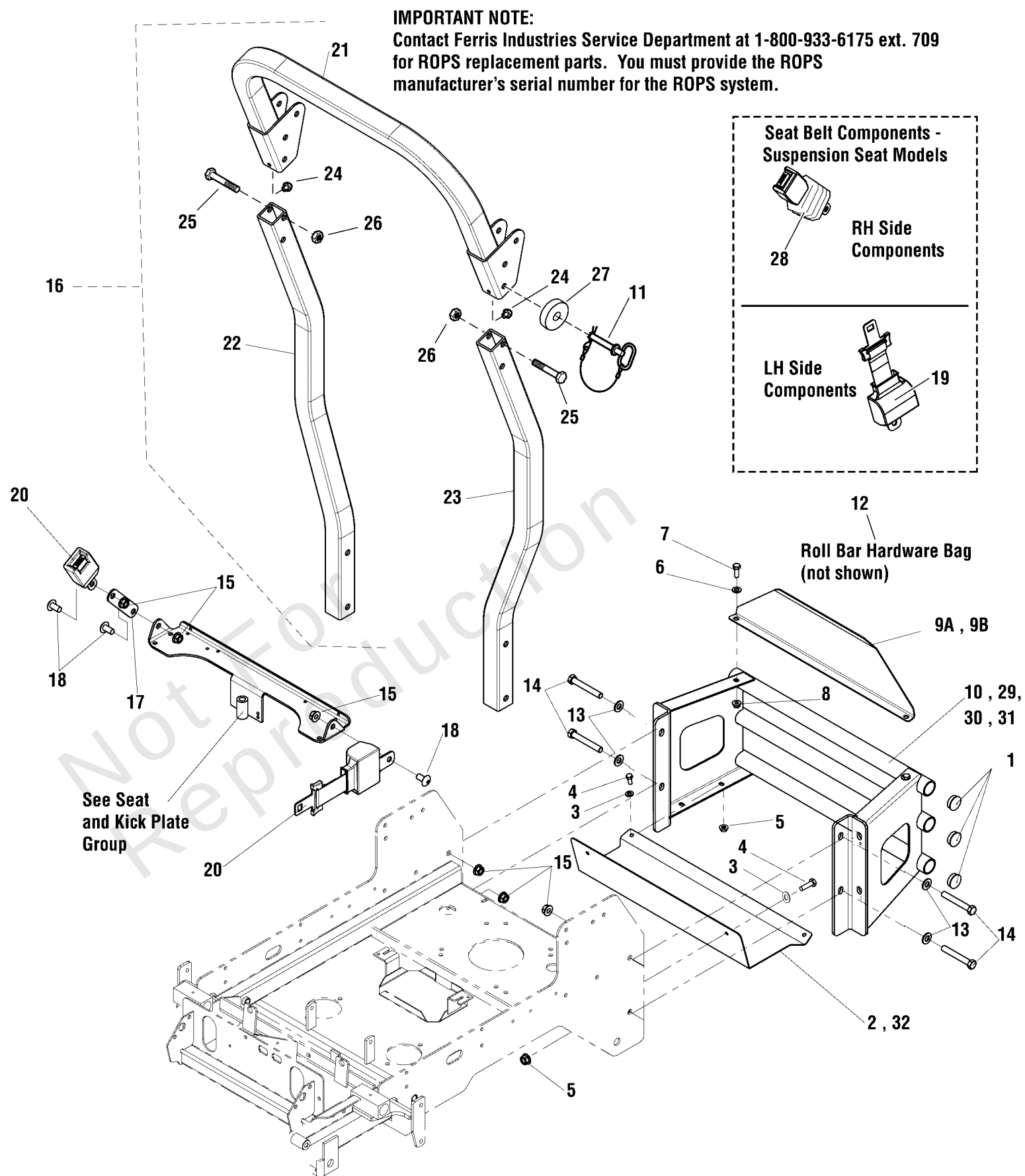
Pump Drive Group

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	NO LONGER AVAILBLE, USE ITEM # 22 -(S/N: 2016410109 & Below)
2	5025013X14	1	BOLT, 3/8-16 X 1-3/4" GD5 CZ
3	5025394	3	NUT, 3/8-16 HEX NYLOCK FLANGE -(Qty: 2 - S/N: 2016410110 & Above)
4	5025100	1	NUT, 3/8-16 HEX SIDE LOCK
5	5025013X18	1	BOLT, 3/8-16 X 2-1/4" GD5 CZ
6	5103808	1	PULLEY, SINGLE FLANGED, 4"ODX3/8"ID
7	5025013X32	1	BOLT, 3/8-16 X 4" GD5 CZ -(S/N: 2016410109 & Below)
8	5102004	1	SPACER, .39 X 1.00 X 2.55, SS -(S/N: 2016410109 & Below)
9	5025128	4	NUT, 3/8-16 HEX SERRATED FLANGE
10	5022157	2	BUSHING, BRASS, 1.25X1X1.25 -(S/N: 2016410109 & Below)
11	5025305	1	WASHER, .41 X 1.75 X .14 -(S/N: 2016410109 & Below)
12	5045475	1	SPACER, .45 X 1.88 X .38 -(S/N: 2016410109 & Below)
13	5100555	1	BELT, BANDED A-SEC,64.76EL,POLY,RAW EDGE
14	5022847	1	SPRING-EXT, 1.04 ODX6.935LGX.148WR, BLK
15	5021812	1	EYE BOLT, 3/8-16 X 6, 3THRD, 1EYE, CZ
16	5025034	2	NUT, 3/8-16 HEX
17	5022586	2	PULLEY, PUMP DRIVE
18	5022587	2	BUSHING, TAPERED HUB
19	5023254	2	KEY, 5MM SQ. W/ RADIUS
20	5025010X8	4	BOLT, 1/4-20 X 1" GD5 CZ
21	5025013X10	4	BOLT, 3/8-16 X 1-1/4" GD5 CZ
22	5406895	1	ASSM, IDLER ARM, PUMP DRIVE, 3/8ID, CAST -(SV)(Includes items # 23 - 25)(5101178A)
23	7078243	2	BEARING, BALL, AXLE
24	5102580	1	SPACER, .39 X .88 X 1.53, CZ
25	5102579	2	SPACER, IDLER ARM, T-STYLE, CZ
26	5411066	1	ASSM, IDLER ARM, PUMP DRIVE, 1/2ID, CAST -(SV)(S/N: 2016410110 & Above)(5101178A)
27	5103812	1	SPACER, .52 X .84 X 1.53, PM -(S/N: 2016410110 & Above)
28	5103363	1	SPACER, .52 X 1.88 X .38 -(S/N: 2016410110 & Above)
29	5103262	2	SPACER, IDLER ARM, 1/2, PM -(S/N: 2016410110 & Above)
30	5103282	1	WASHER, .52 X 1.75 X .14, CZ -(S/N: 2016410110 & Above)
31	5025017X32	1	BOLT, 1/2-13 X 4" GD5 CZ -(S/N: 2016410110 & Above)
32	5025396	1	NUT, Hex Flange, Nylock, 1/2-13 -(S/N: 2016410110 & Above)

Rear Bumper, Roll Bar & Seat Belt Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629



Rear Bumper, Roll Bar & Seat Belt Group

REF NO	PART NO	QTY	DESCRIPTION
1	5023484	6	PLUG, PANEL, 1.25 BLACK
2	5409141A	1	PLATE, HEAT SHIELD
3	5025155	4	WASHER, 5/16" SAE
4	5025011X6	4	BOLT, 5/16-18 X 3/4 GD5
5	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE
6	5025156	2	WASHER, 3/8 SAE
7	5025013X8	2	BOLT, 3/8-16 X 1" GD5 CZ
8	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
9a	5400681B	1	PLATE, CARB PROTECTOR - RED
9b	5401953B	1	PLATE, CARB PROTECTOR - RED -(Liquid Cooled Models Only)
10	5409140B	1	WELD, BUMPER -(S/N: 2016294925 & Below)
11	5100079	2	PIN, HITCH, BLACK W/ PLASTIC LANYARD
12	5100377	1	ROLL BAR HARDWARE BAG -(Includes hitch pin)
13	5025158	4	WASHER, 1/2 SAE
14	5025017X26	4	BOLT, 1/2-13 X 3-1/4, HEX HD, GD5, CZ (SV)
15	5025396	7	NUT, Hex Flange, Nylock, 1/2-13
16	-----	1	ROPS (Call 1-800-933-6175 ext. 2193 if replacing a ROPS)
17	5401044A	1	EXTENSION, SEAT BELT - BLK
18	5100267	3	SCREW, 1/2 - 13 X 1.00 SCHS
19	-----	1	ORDER P/N 5105137 (CONTAINS BOTH SEAT BELT RETRACTOR & SUPER SLEEVE BUCKLE) -(For Suspension Seats)
20	5100139	1	SEAT BELT, RETACTING - ASSM -(For Non-Suspension Seats)
21	-----	1	ROLL BAR TOP LOOP -(See drawing note)
22	-----	1	ROLL BAR POST, RH -(See drawing note)
23	-----	1	ROLL BAR POST, LH -(See drawing note)
24	5100383	2	RUBBER BUMPER
25	-----	2	* BOLT
26	-----	2	* NUT
27	5100545	2	RUBBER WASHER
28	5105137	1	SEAT BELT ASSM, RETRACTOR + SUP SLEEVE -(For Suspension Seats)
29	5410565B	1	WELD, BUMPER - RED -(S/N: 2016294926 & Above)(49M9770114G5 Engines Only - S/N: 2016409322 & Above)
30	5409140B	1	WELD, BUMPER -(49M9770114G5 Engines Only - S/N: 2016409321 & Below)
31	5410633B	1	WELD, BUMPER, KOHLER, IS2000Z - RED -(Kohler EFI Models Only)
32	5410630A	1	PLATE, HEAT SHIELD, KOHLER, IS2000Z - BLK -(Kohler EFI Models Only)

Footnotes:

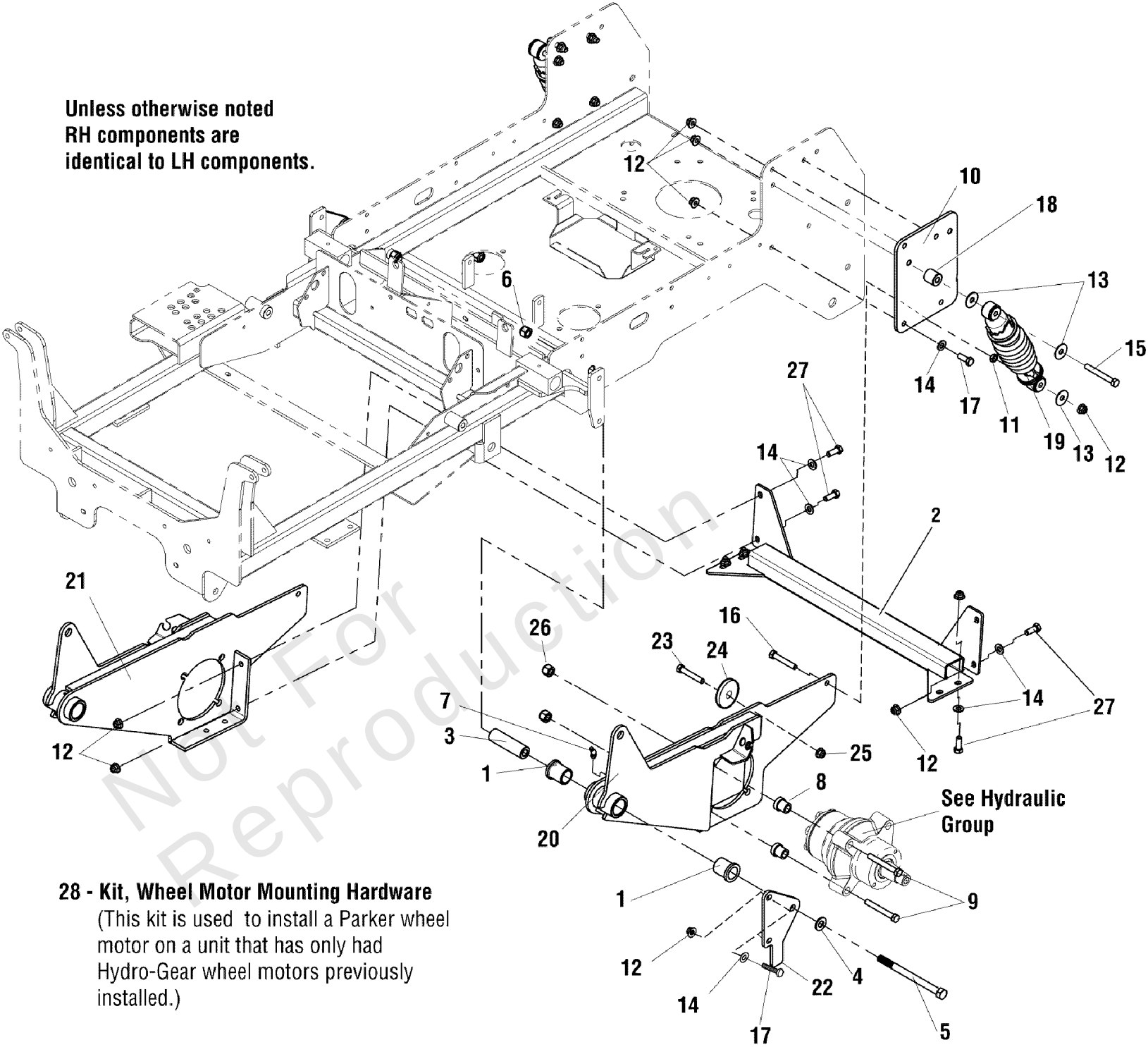
* Not serviced - For replacement hardware, you must purchase complete Roll Bar kit.

Rear Suspension Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629

Unless otherwise noted
RH components are
identical to LH components.



Rear Suspension Group

REF NO	PART NO	QTY	DESCRIPTION
1	5021541	4	BUSHING, FLANGE
2a	5600187	1	KIT, TIE BAR, 52 -(S/N: 2012944026 & Above)
2b	5600187	1	KIT, TIE BAR, 52 -(S/N: 2012944025 & Below)
2c	5600188	1	KIT, TIE BAR, 61
3	5061339	2	SPACER, .52 X 1.00 X 3.42
4	5025158	2	WASHER, 1/2 SAE
5	5025017X52	2	BOLT, 1/2-13 X 6-1/2" GD5
6	5025056	2	NUT, 1/2-13 HEX NYLON LOCK
7a	5020020	2	FITTING, GREASE, 45 DEGREE -(52" Models)
7b	5020095	2	GREASE FITTING, 1/4-28 STRAIGHT -(61" Models)
8a	5047027	8	SPACER, .51 X .75 X .56 -(52" Models)
8b	5102689	8	SPACER, .53 X 1.00 X 1.00 W/ FLAT, CZ -(61" Models / S/N: 2014450934 & Above)
8c	5061670	8	SPACER, .53 X 1.00 X 1.00 -(61" Models / S/N: 2014450933 & Below)
9a	5025017X24	8	BOLT, 1/2-13 X 3" GD5 CZ -(52" Models)
9b	5025553	8	BOLT, 1/2-13 X 3.5, DRI-LOC PATCH -(61" Models / S/N: 2014450934 & Above)
9c	5025017X28	8	BOLT, 1/2-13 X 3-1/2, HEX HD, GD5, CZ (SV) -(61" Models / S/N: 2014450933 & Below)
10	5061751B	1	PLATE, FRAME SUPPORT, LH - RED
11	5046860	2	SPACER, .39 X 1.00 X .50
12	5025394	24	NUT, 3/8-16 HEX NYLOCK FLANGE
13	5025165	6	WASHER, 3/8" FENDER
14	5025156	20	WASHER, 3/8 SAE
15	5025013X24	2	BOLT, 3/8-16 X 3" GD5 CZ
16	5025013X18	2	BOLT, 3/8-16 X 2-1/4" GD5 CZ
17	5025013X8	14	BOLT, 3/8-16 X 1" GD5 CZ
18	5100896	2	SPACER, .390 X 1.00 X 1.00 - YZ
19	5023436	2	COIL - OVER SHOCK ASSEMBLY
20a	5401356B	1	WELD, MOTOR MOUNT - LH - RED -(52" Models)
20b	5401166B	1	WELD, MOTOR MOUNT, LH -(61" Models)
21a	5401357B	1	WELD, MOTOR MOUNT - RH - RED -(52" Models)
21b	5401165B	1	WELD, MOTOR MOUNT, RH -(61" Models)
22	5400648A	2	SUPPORT, SWING ARM - BLK
23	5025594	2	SCREW, 5/16-18 X 1, PHILLIPS HD, BZ -(52" Models)
24	5102701	2	SPACER, .34 X 1.54 X .25 UHMW -(52" Models)
25	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE -(52" Models)
26a	5025330	8	NUT, 1/2-13 SQUARE -(S/N: 2014450934 & Above)
26b	5025396	8	NUT, Hex Flange, Nylock, 1/2-13 -(S/N: 2014450933 & Below)

Footnotes:

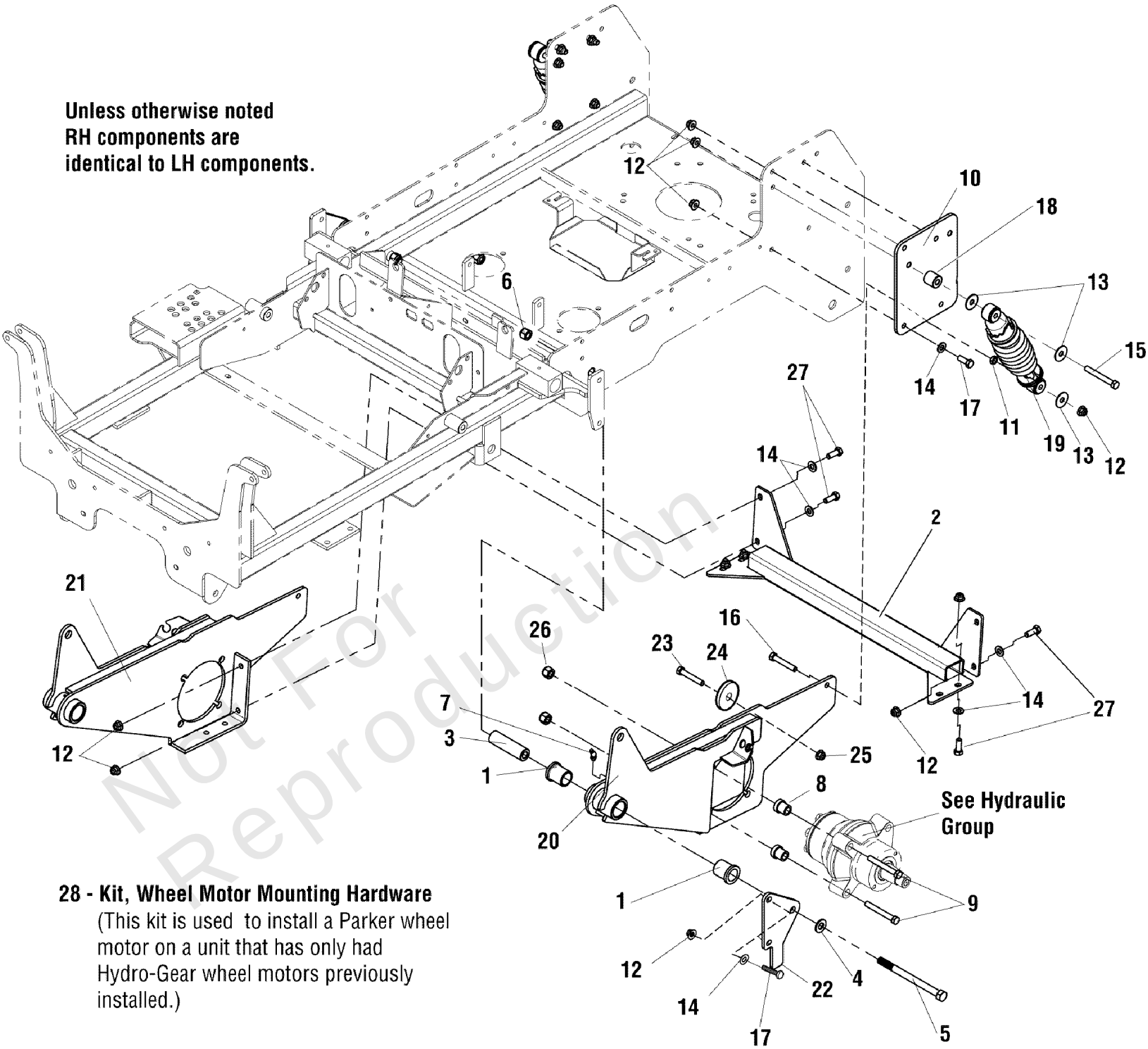
* Used to change a unit from a Hydro-Gear wheel motor to a Parker wheel motor

Rear Suspension Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629

Unless otherwise noted
RH components are
identical to LH components.



28 - Kit, Wheel Motor Mounting Hardware
(This kit is used to install a Parker wheel motor on a unit that has only had Hydro-Gear wheel motors previously installed.)

Rear Suspension Group

REF NO	PART NO	QTY	DESCRIPTION
27	5025013X10	8	BOLT, 3/8-16 X 1-1/4" GD5 CZ
28	5600578	2	* KIT, WHEEL MOTOR MOUNTING HARDWARE

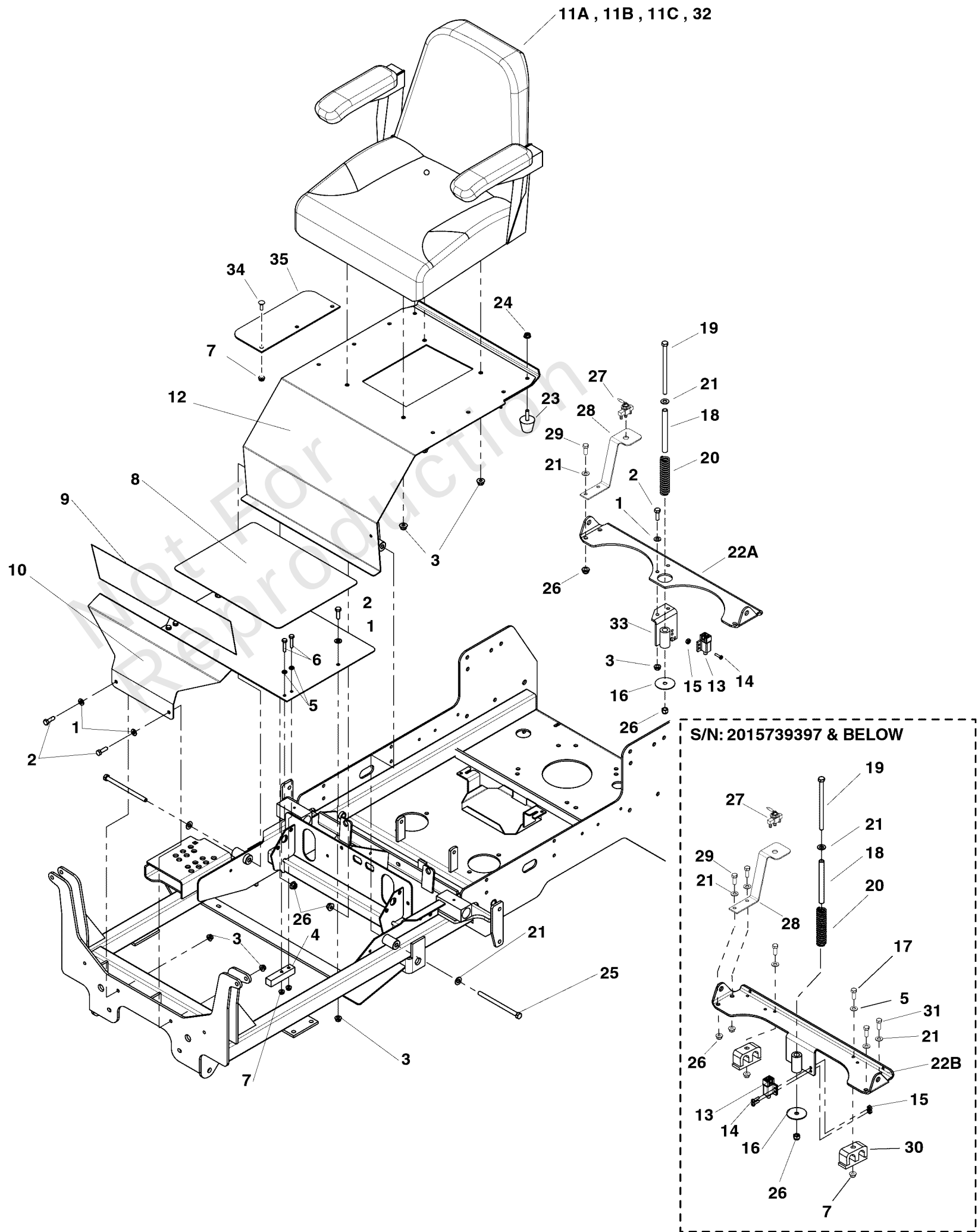
Not For
Reproduction

Seat Mount & Floor Group - S/N: 2016269735 & Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629

5301347
5300143



Seat Mount & Floor Group - S/N: 2016269735 & Below

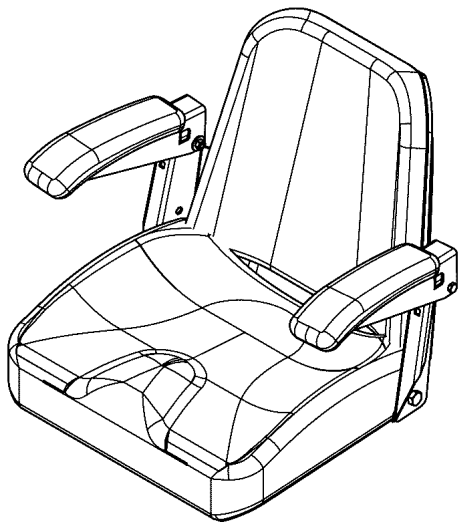
REF NO	PART NO	QTY	DESCRIPTION
1	5025155	4	WASHER, 5/16" SAE
2	5025011X8	4	BOLT, 5/16-18 X 1" GD5 YZ
3	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE
4	5100643	2	BLOCK, DECK LIFT SUPPORT
5	5025154	4	WASHER, 1/4 SAE
6	5025010X10	4	BOLT, 1/4-20 X 1-1/4" GD5
7	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE
8	5101013	1	SAFETY WALK, 11.50 X 15.00
9	5101011	1	SAFETY WALK, 8.00 X 15.00
10	5404137B	1	PLATE, FLOOR, IS2000 - RED
11a	5103354	1	SEAT, 2012 -(S/N: 2015381237 & ABOVE)
11b	5103004	1	SEAT, LOW -(S/N: 2014582799 - 2015381236)
11c	5022031	1	SEAT, GRAY, NO LOGO, CMPT -(S/N: 2014582798 & BELOW)
12	5600300	1	SEAT PLATE W/DECALS, IS2000Z
13	5022094	1	SWITCH PLUNGER N.C. / N.C.
14	5025179X6	2	SCREW, #10-24 X 1/2" RD PHILLIPS
15	5025029	2	NUT, #10-24 HEX
16	5025326	1	WASHER, .39 X 2.00 X .14
17	5025010X12	2	BOLT, 1/4-20 X 1 1/2" -(S/N: 2015739397 & BELOW)
18	5046586	1	SPACER, .38 X .50 X 5.06
19	5025013X48	1	BOLT, 3/8-16 X 6" GD5 CZ
20	5100356	1	SPRING, .688 ID X .130 WIRE DIA 4.25
21	5025156	5	WASHER, 3/8 SAE
22a	5409406B	1	PLATE, SEAT SUPPORT -(S/N: 2015739398 & ABOVE)
22b	5401940B	1	WELD, SEAT SUPPORT - RED -(S/N: 2015739397 & BELOW)
23	5022612	2	BUMPER, RUBBER 5/16-18
24	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
25	5025013X44	2	BOLT, 3/8-16 X 5-1/2" GD5 CZ
26	5025394	5	NUT, 3/8-16 HEX NYLOCK FLANGE
27	5023358	1	VALVE, FUEL, STR. OUTLET
28	5401162A	1	MOUNT, FUEL SELECTOR SWITCH - BLK
29	5025013X8	2	BOLT, 3/8-16 X 1" GD5 CZ
30	5100381	2	CLAMP, 1/2" HOSE, DOUBLE, PLASTIC -(S/N: 2015739397 & BELOW)
31	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
32	5101214	1	SEAT, SUSP TYPE -(SUSPENSION SEAT)
33	5409468B	1	BRACKET, SPRING SWITCH -(S/N: 2015739398 & ABOVE)
34	80003518	6	BOLT, 1/4-20 X 0.750, GR5, STD NECK, SQ, ZC/CL -(S/N: 2015739398 & ABOVE)
35	5100389	2	PLATE, SEAT, RUBBER FLAP -(S/N: 2015739398 & ABOVE)

Seat Replacement Parts

Note: Unless noted otherwise, use the standard torque specifications

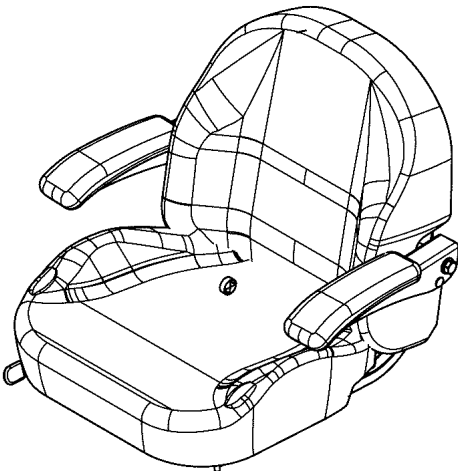
Mfg. No: 5900629

Seat Number: 5022031 - "Gray Seat"



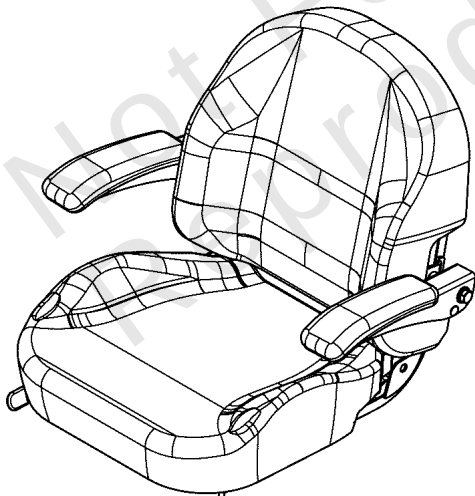
- 1 - Seat Bottom Cushion
- 2 - Seat Back Cushion
- 3 - Arm Rest Kit (Set of 2)
- 4 - Rails, Seat Adjuster (Set of 2)
- 5 - Spring, Extension 4" Adjustment

Seat Number: 5103004 - "Black/Gray Seat, No Trim"



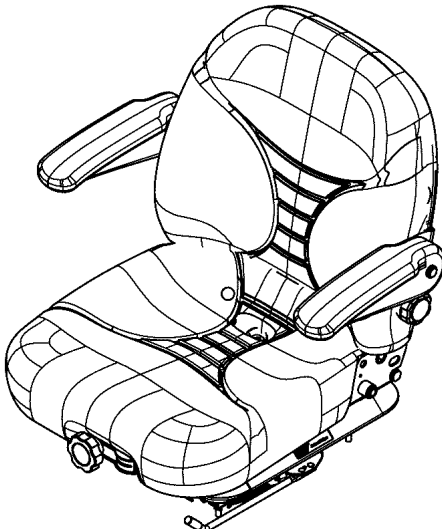
- 6 - Seat, Back Cover
- 7 - Seat Cushion
- 8 - Arm Rest Assembly (Set of 2)
- 9 - Slide Rails

Seat Number: 5103354 - "Black/Gray Seat, Red Trim"



- 10 - Seat Back Cover
- 11 - Seat Cushion
- 12 - Arm Rest Assembly
- 13 - Slide Rails

Seat Number: 5101214 - "Suspension Seat"



- 14 - Arm Rest Kit (Set of 2)
- 15 - Seat Back Cushion
- 16 - Seat Bottom Cushion
- 17 - Seat Adjuster Kit
- 18 - Buckle, Seat Belt
- 19 - Retractor, Seat Belt

Seat Replacement Parts

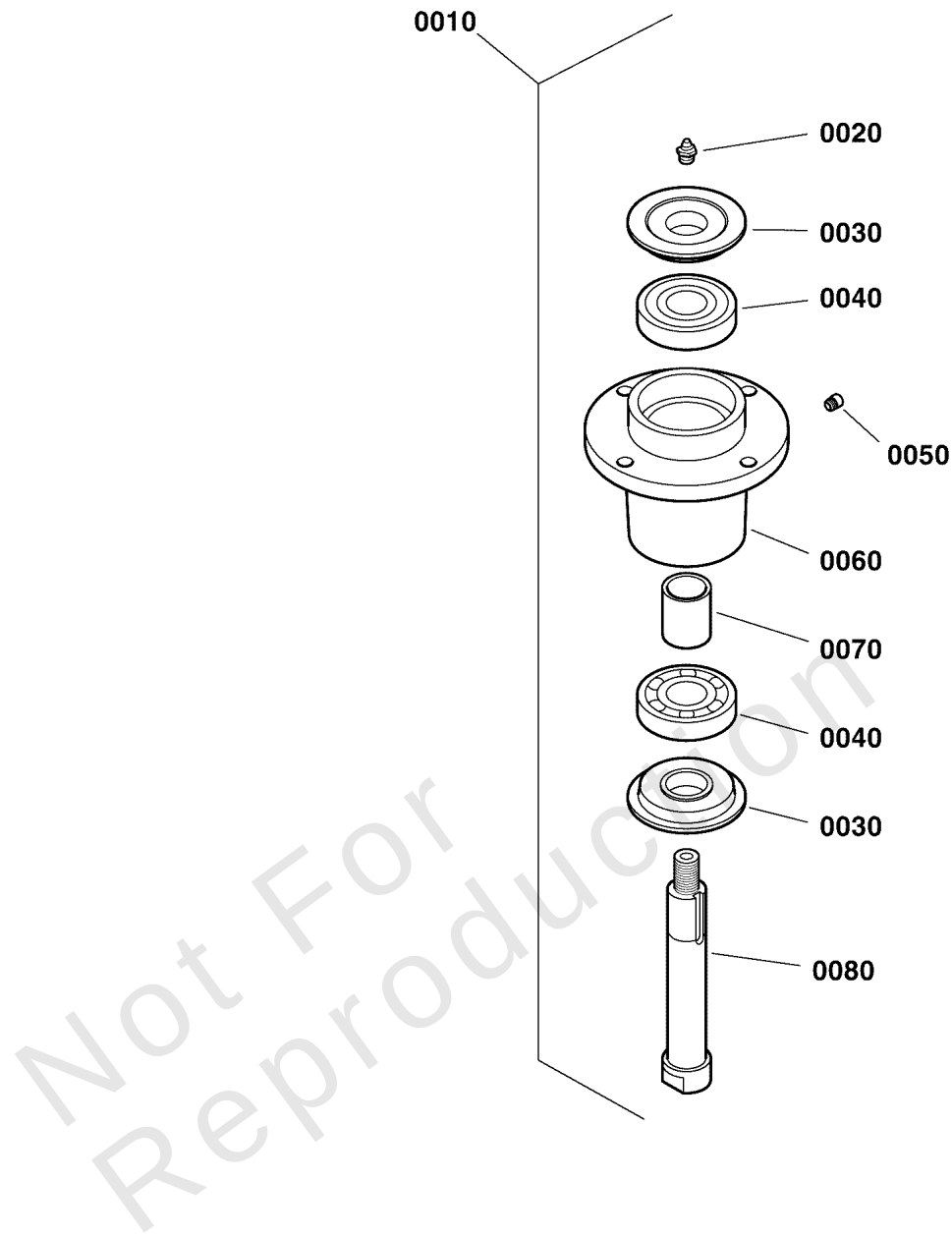
REF NO	PART NO	QTY	DESCRIPTION
1	5022031X2	1	SEAT BOTTOM (EVC 907)
2	5022031X4	1	Seat Back Cushion
3	5022185	1	ARM REST, BLACK MOLDED, PAD ONLY
4	5020930X3	1	Rails, Seat Adjuster (set of 2)
5	5100636	1	SPRING, EXTENSION, SEAT ADJUSTMENT (YEL OR BLK) -(SV)(Not an illustrated part.) (2" Total unstretched length)
6	5102760X1	1	Seat Back Cover
7	5102760X2	1	Seat Cushion
8	5102760X3	1	Arm Rest Asm. (set of 2)
9	5102760X4	1	Slide Rails
10	5103354X1	1	Seat Back Cover
11	5103354X2	1	SEAT COVER
12	5102760X3	1	Arm Rest Asm. (set of 2)
13	5102760X4	1	Slide Rails
14	5101214X1	1	Arm Rest Kit (set of 2)
15	5101214X2	1	Seat Back Cushion
16	5101214X3	1	Seat Bottom Cushion
17	5101214X4	1	Seat Adjuster Kit
18	5105137	1	SEAT BELT ASSM, RETRACTOR + SUP SLEEVE
19	-----	1	ORDER P/N 5105137 (CONTAINS BOTH SEAT BELT RETRACTOR & SUPER SLEEVE BUCKLE)

Spindle SERVICE PARTS - 5061095

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900629

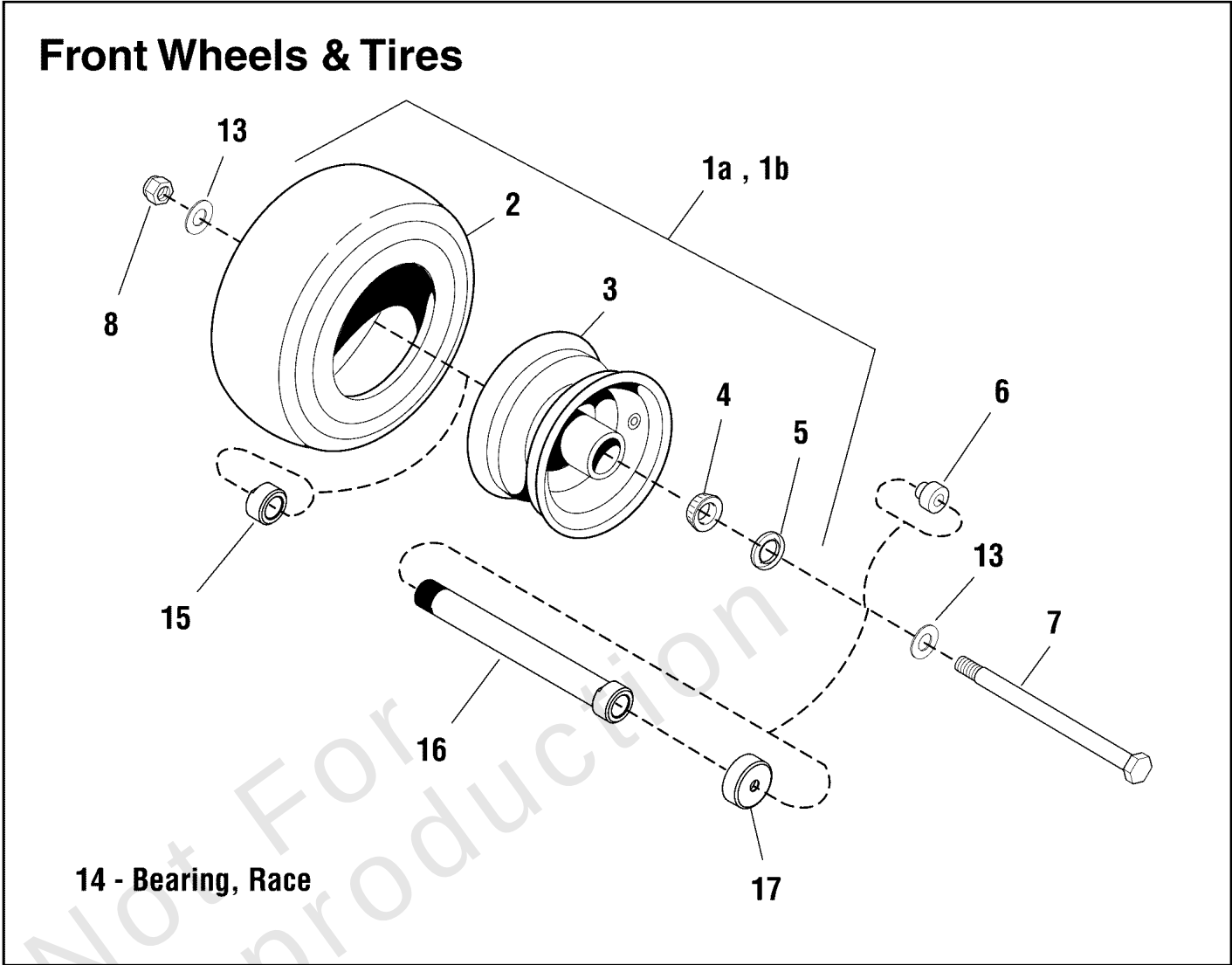
5061095



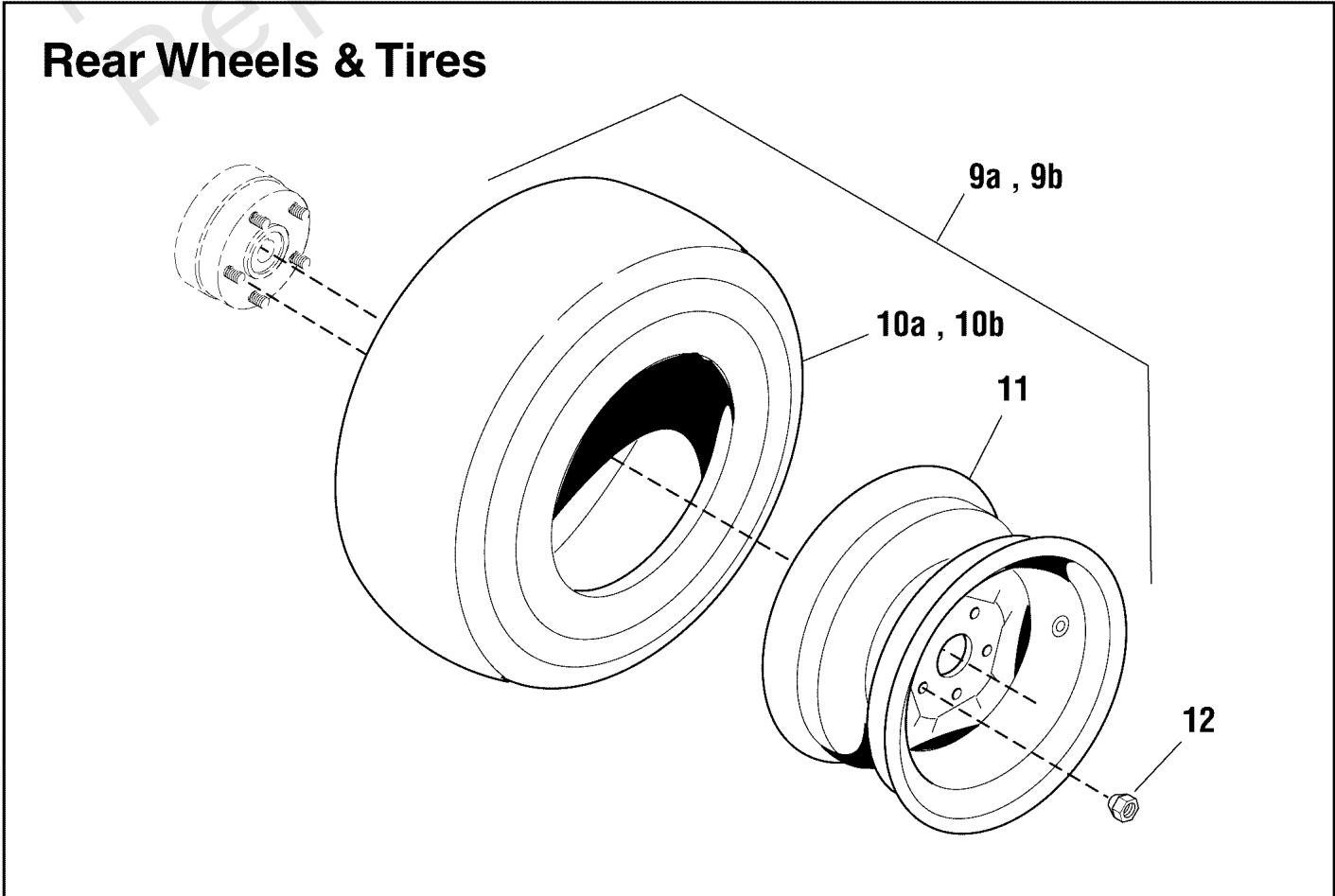
Spindle SERVICE PARTS - 5061095

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

Front Wheels & Tires



Rear Wheels & Tires



Wheel & Tire Group

REF NO	PART NO	QTY	DESCRIPTION
1a	5022631S	2	TIRE, CASTER, 13 X 5.00-6
1b	5023280	2	* FLAT-FREE TIRE ASSEMBLY, 13 x 5.0 - 6
2	5022029X1	2	TIRE, 13 x 5.0 - 6
3	5022631SX1	2	WHEEL ASSEMBLY, for 13 x 5.0 - 6 Tire, Complete
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)(S/N: 2016230844 & Below)
7	5025017X64	2	BOLT, 1/2-13 X 8" GD5 YZ
8	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
9a	5100006	2	TIRE ASSM, 22 X 10.00-10 -(52" Models)
9b	5023369	2	TIRE ASSM, 22 X 11.00-10 -(61" Models)
10a	5100006X1	2	TIRE, 22 X 10.0 -10 -(52" Models)
10b	5023369X2	2	TIRE, 22 X 11.0 - 10 -(61" Models)
11	5023369X1	2	RIM-10X7-5-4.5 SOLID
12	5020601	10	NUT, 1/2-20, FOR WHEEL BOLT SILVER
13	5025158	4	WASHER, 1/2 SAE
14	5022631SX4	2	BEARING, RACE -(Not Shown)
15	5103650	2	NUT, BEARING ADJUSTER, AXLE -(S/N: 2016230845 & Above)(2 per tire)
16	5103648	2	BEARING ADJUSTER, SPACER, 6.062 LG -(S/N: 2016230845 & Above)(1 per tire)
17	5103594	4	DEBRIS COVER, CASTER WHEELS -(S/N: 2016230845 & Above)(2 per tire)

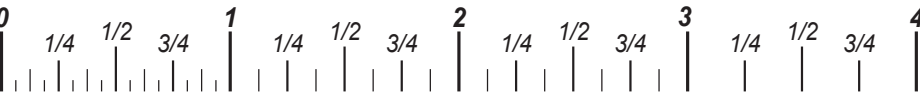
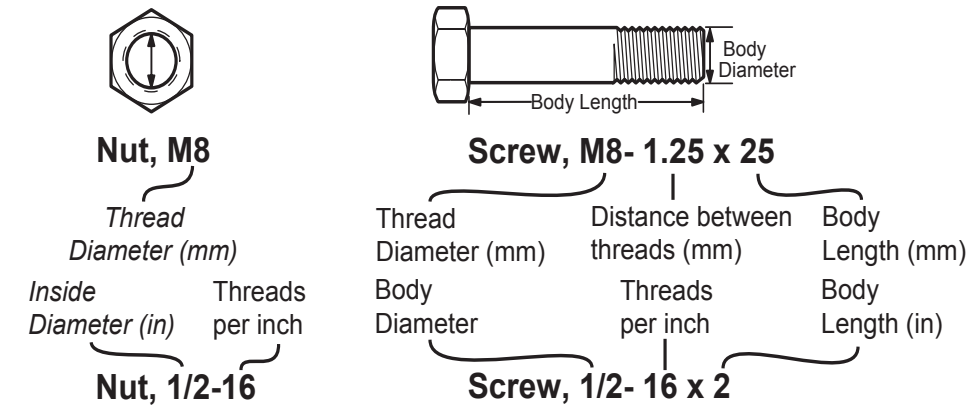
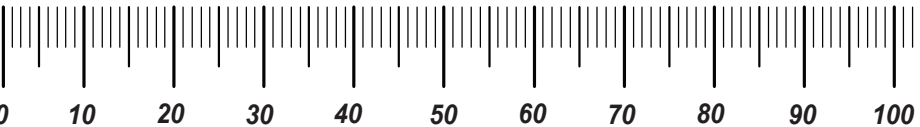
Footnotes:

* Optional solid urethane tire assembly. Wheel is not servicable.

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).

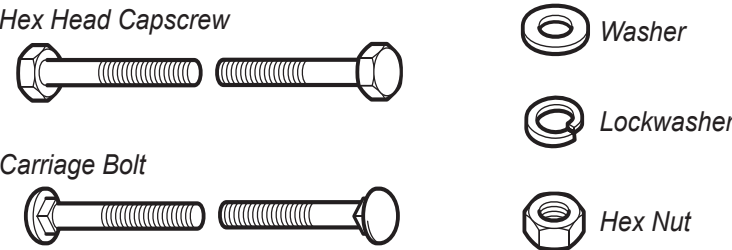
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

