



Parts Manual

Mfg. No: 5091002

SFH13320KW, 32" 13 HP Hydro-
Transaxle Drive Walk-Behind Mower
Series 0

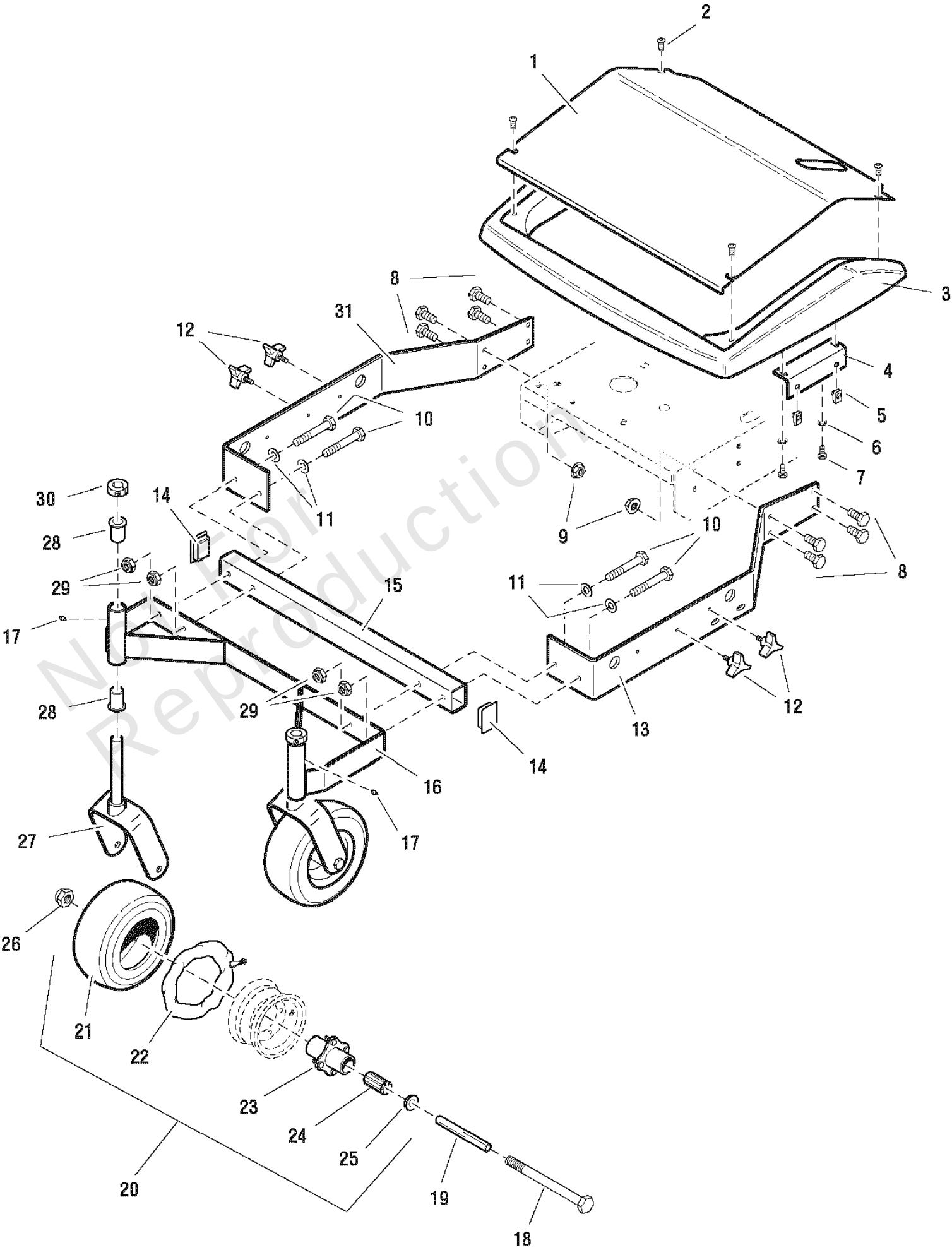
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Not For
Reproduction

32" Mower Deck - Frame, Caster & Shield

Note: Unless noted otherwise, use the standard torque specifications

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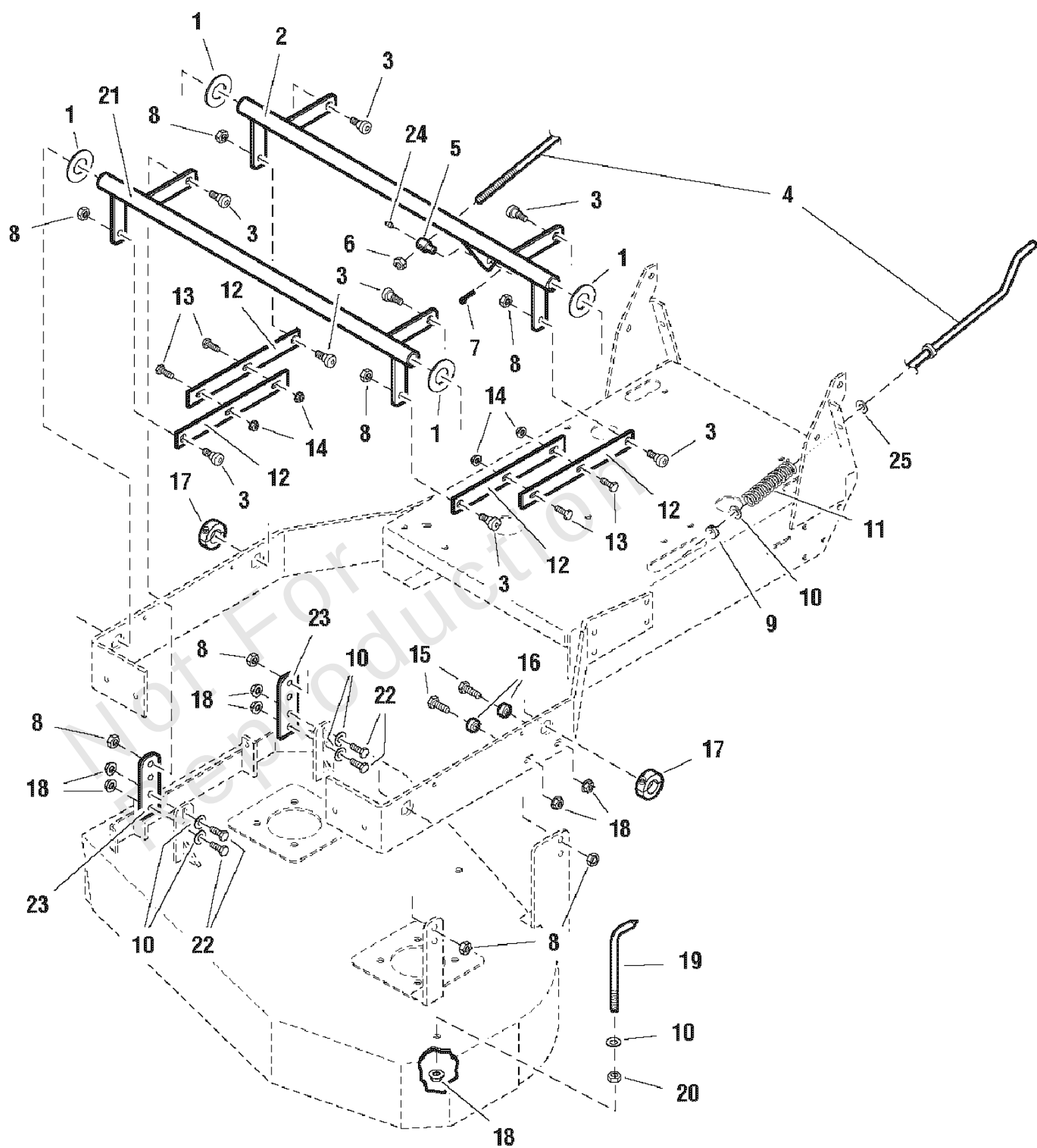
32" Mower Deck - Frame, Caster & Shield

REF NO	PART NO	QTY	DESCRIPTION
1	5049101	1	SHIELD INSERT, Complete (includes decals) -Was 504848145
2	5025299X4	4	SCREW, Allen Head, 1/4-20 x 1/2
3	5048150	1	GUARD, Mower Deck
4	5048353D	2	SHIELD MOUNT BRACKET
5	3022308	4	BODY CLIP, 5/16-18 -Was 5022308
6	5025169	4	WASHER, 1/4 LOCK
7	5025010X6	4	CAPSCREW, Hex Head, 1/4-20 x 3/4
8	5025013X8	8	BOLT, 3/8-16 X 1" GD5 CZ
9	5025128	8	NUT, Hex Serrated Flange, 3/8-16
10	5025013X20	4	BOLT, 3/8-16 X 2-1/2" GD5 CZ -Was 5025013-20
11	3025156	4	WASHER, 3/8 -Was 5025156
12	5022319	4	KNOB
13	5047648D	1	FRAME RAIL - LH
14	5022098	2	PLASTIC CAP
15	5048194D	1	CROSS TUBE
16	5047677D	1	CASTER MOUNT FRAME
17	5020095	2	GREASE FITTING, 1/4-28
18	5025017X44	2	CAPSCREW, Hex Head, 1/2-13 x 5-1/2
19	5041657	2	AXLE, Caster
20	5021181S	2	TIRE ASSM, 9 X 3.5 X 4, SILVER
21	5021181X1	2	TIRE, Front, 9 x 3.5 x 4
22	5021181X2	2	TUBE, for 9 x 3.5 x 4 Tire
23	5021181SX3	2	HUB & BEARING ASSEMBLY, Complete, Silver (includes Ref 21 & 22)
24	5021182	2	BEARING, ROLLER 3/4" ID X 3.25" (ONE PER TIRE)(SV)
25	5021043	4	RETAINER, Bearing (2 per tire)
26	3025056	2	NUT, Hex Nylon Lock, 1/2-13 -Was 5025056
27	5048172D	2	CASTER YOKE
28	5020823	4	BUSHING, Flange
29	5025096	4	NUT, 3/8-16 HEX NYLON LOCK
30	5010114	2	COLLAR, Split, 3/4
31	5047649D	1	FRAME RAIL - RH
32	5023274	2	VINYL CAP 1.75 x 1 (Not shown)
33	5048968D	1	CASTER MOUNT FRAME W/ LOCKS, Complete (includes Ref No. 17 & 28) -not shown
34	5048965D	2	CASTER YOKE (use with Ref No. 33, part no. 504848968) -not shown

32" Mower Deck - Height Adjustment

Note: Unless noted otherwise, use the standard torque specifications

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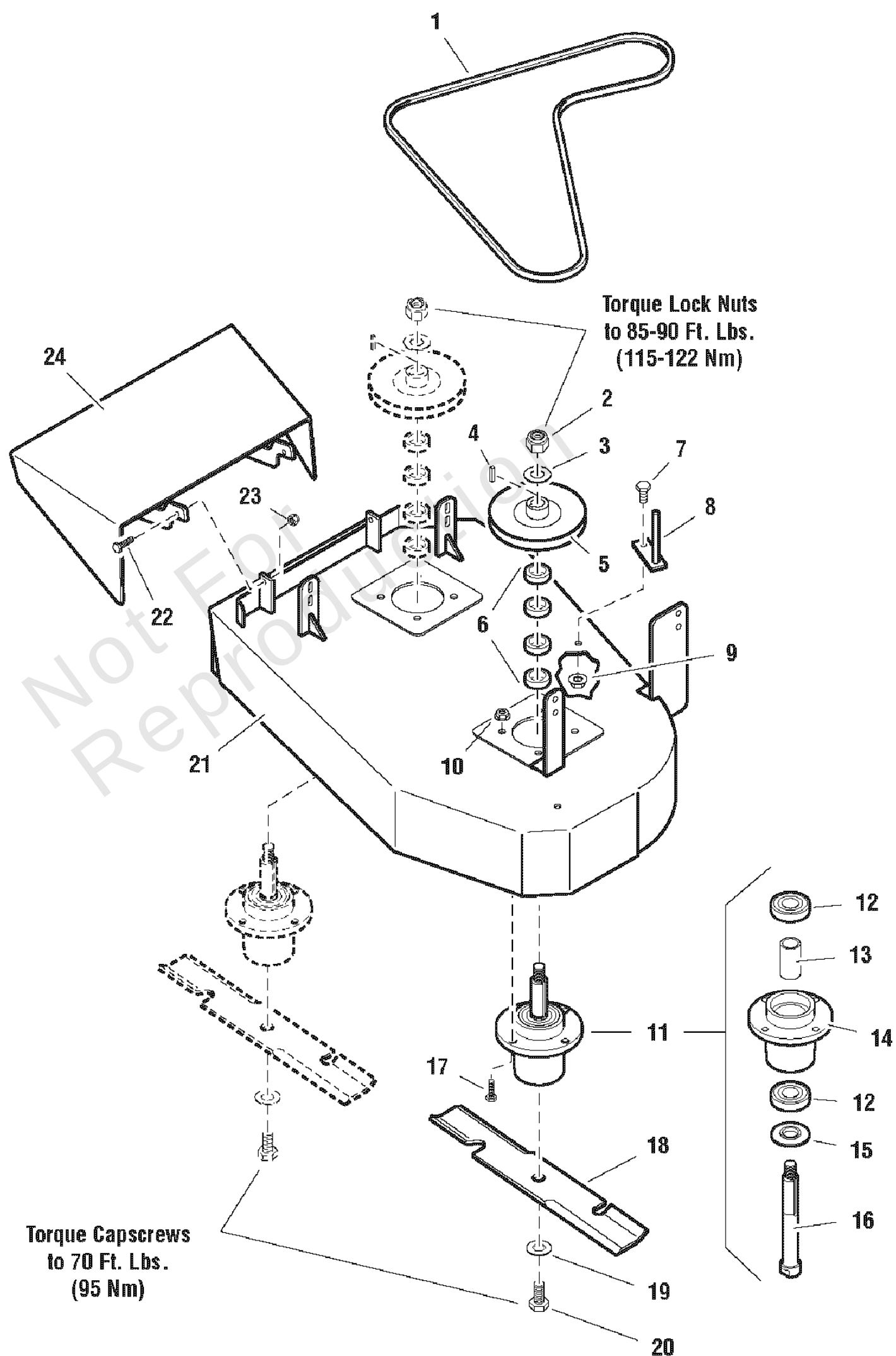
32" Mower Deck - Height Adjustment

REF NO	PART NO	QTY	DESCRIPTION
1	5025162	4	WASHER, 1"
2	5047682D	1	DECK LIFT PIVOT - REAR
3	5025356	8	SHOULDER BOLT, 3/8-16 x 1/2 x 3/8
4	5047655	1	HEIGHT ADJUST ROD
5	5048526	1	LINKAGE ADJUSTER
6	5025100	1	NUT, Hex Side Lock, 3/8-16
7	7091597	1	PIN, Cotter -Was 5025201-6
8	5025046	8	NUT, Hex Top Lock, 3/8-16
9	5010546	1	COLLAR, Set, 3/8
10	3025156	6	WASHER, 3/8 -Was 5025156
11	5022645	1	SPRING, Compression
12	5047710D	4	DECK ADJUST LINK
13	5025011X8	4	CAPSCREW, Hex Head, 5/16-18 x 1 -Was 5025011-8
14	5025139	4	NUT, Hex Serrated Flange, 5/16-18
15	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
16	5044933	2	SPACER
17	5048549	2	COLLAR, Double Split, 1"
18	5025128	7	NUT, Hex Serrated Flange, 3/8-16
19	5047737	1	CUT HEIGHT INDICATOR
20	5025034	1	NUT, Hex, 3/8-16
21	5047681D	1	DECK LIFT PIVOT - FRONT
22	5025013X6	4	BOLT, 3/8-16 X 3/4" GD5 CZ -Was 5025013-6
23	5048439D	2	HANGER PLATE
24	5020095	1	GREASE FITTING, 1/4-28
25	5048548	1	WASHER, Nylon, 3/8

32" Mower Deck - Housing, Spindles, Blades & Pulleys

Note: Unless noted otherwise, use the standard torque specifications

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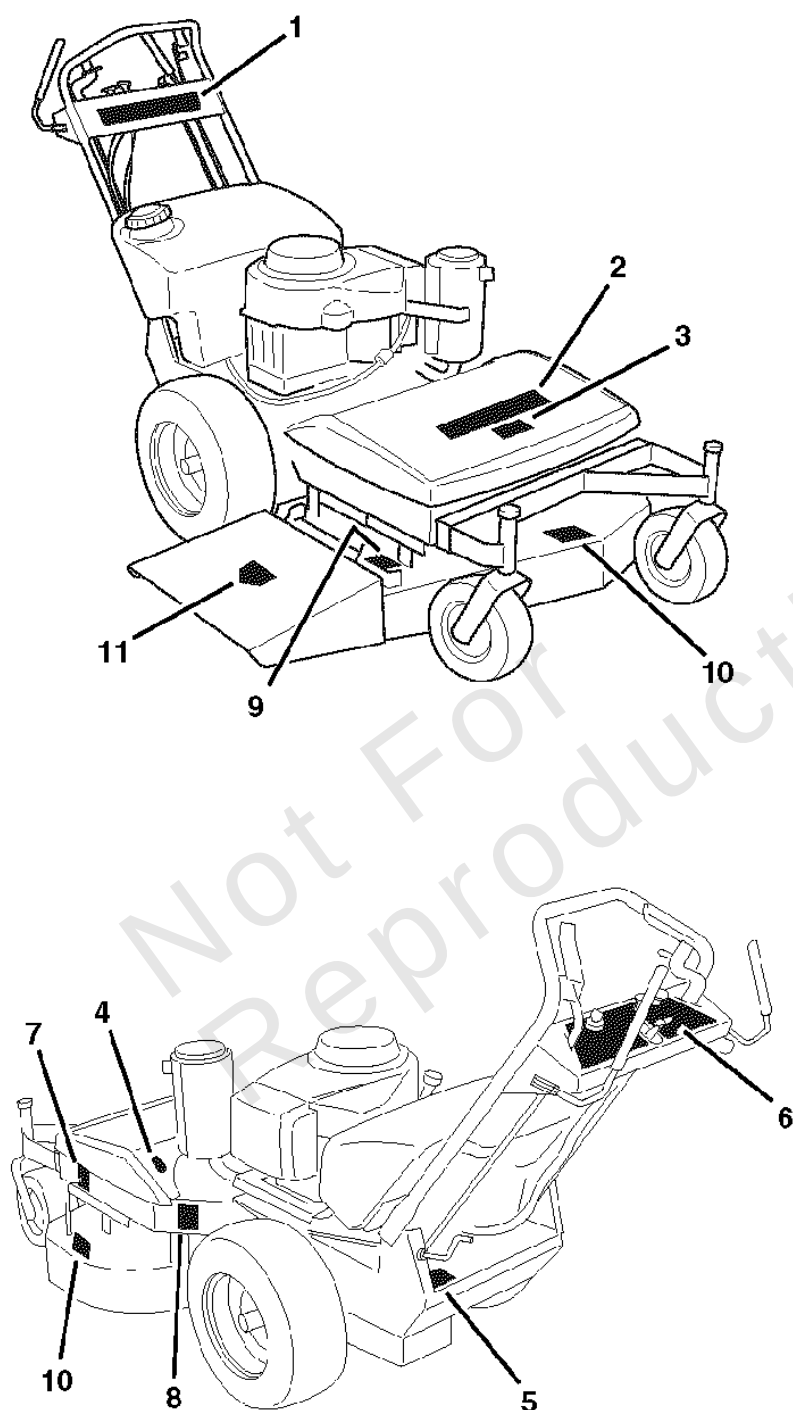
32" Mower Deck - Housing, Spindles, Blades & Pulleys

REF NO	PART NO	QTY	DESCRIPTION
1	5022918	1	BELT
2	5025319	2	NUT, Hex Nylon Lock, 5/8-18
3	5025318	2	WASHER, Spring, 5/8
4	5050407X1	2	KEY, 1/4 Sq. x 1
5	5047638	2	SPINDLE PULLEY
6	5047725	8	SPACER
7	5025013X8	1	BOLT, 3/8-16 X 1" GD5 CZ
8	5047777D	1	BELT GUIDE
9	5025126	1	NUT, 1/4-20 HEX SERR. FLANGE
10	7091298	10	NUT, Hex Nylon Lock, 5/16-18 -Was 5025057
11	5047640	2	SPINDLE ASSEMBLY, Complete (includes ref 12-16)
12	5046363X5	4	BEARING, Ball
13	5046363X4	2	SPACER, Bearing
14	5046363X1	2	SPINDLE HOUSING
15	5046363X3	2	TRASH SHIELD
16	5047640X2	2	SPINDLE SHAFT
17	5023156	8	CAPSCREW, Hex Flange Head, 5/16-18 x 1-1/4
18	5020843	2	MOWER BLADE
19	5025159	2	WASHER, USS, 5/8
20	5025320X14	2	CAPSCREW, Hex Head, 5/8-11 x 1-3/4
21	5049099	1	MOWER DECK HOUSING, Complete (includes decals)
22	5025011X8	2	CAPSCREW, Hex Head, 5/16-18 x 1 -Was 5025011-8
23	7091298	2	NUT, HEX NYLON LOCK, 5/16-18 -Was 5025057
24	5049100	1	DISCHARGE CHUTE, Complete (includes decal)

Decals - Brand, Model, Safety & Instruction

Note: Unless noted otherwise, use the standard torque specifications

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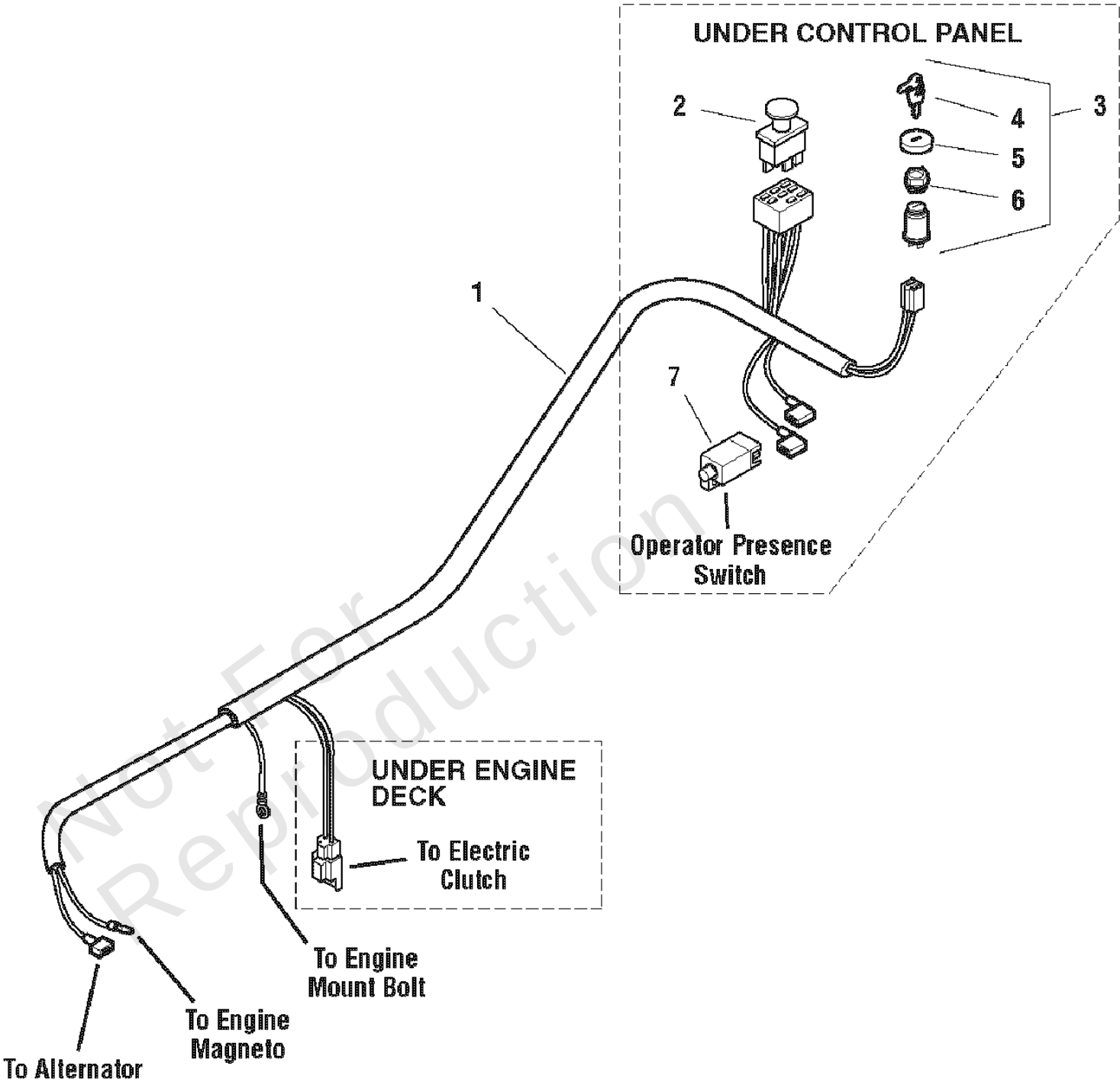


NOTE: Decals are NOT shown to scale.

- 1 —
- 2 —
- 3 —
- 4 —
- 5 —
- 6 —
- 7 —
- 8 —
- 9 —
- 10 —
- 11 —

Decals - Brand, Model, Safety & Instruction

REF NO	PART NO	QTY	DESCRIPTION
1	7071916	1	DECAL, Snapper -Was 7071916
2	7075568	1	DECAL, Snapper Pro
3	7075563	1	DECAL, 32
4	1704473	1	DECAL, Hot
5	5047778	1	DECAL, Cut Height Adjust
6	5049906	1	DECAL, Control Panel
7	5047759	1	DECAL, Deck Height
8	5047786	1	DECAL, Pulley Position
9	1704277	1	DECAL, Danger (Chute In Place)
10	1704276	2	DECAL, Danger (Hand Under Deck)
11	7013010	1	DECAL, Danger



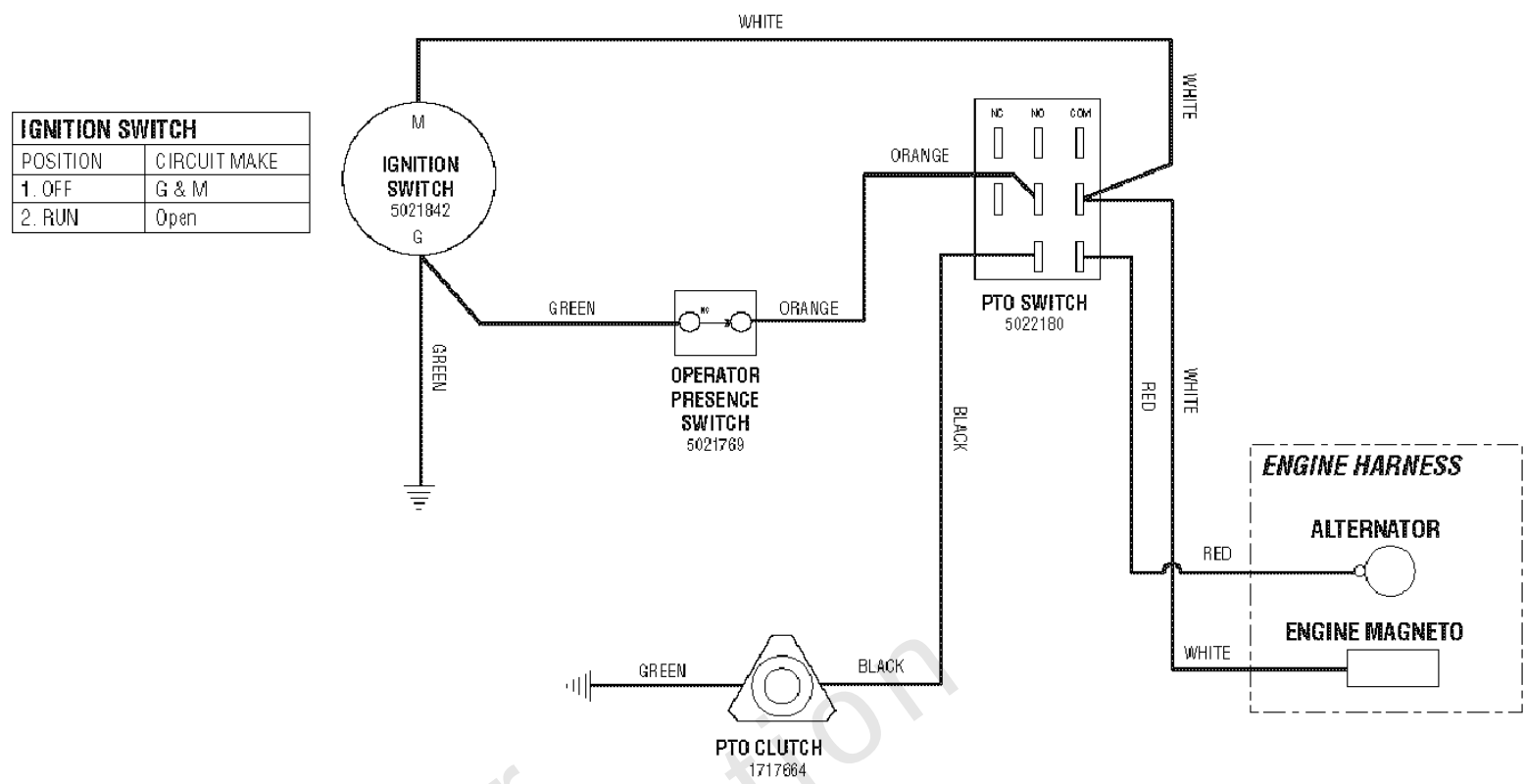
Electrical Group

REF NO	PART NO	QTY	DESCRIPTION
1	5047772	1	WIRE HARNESS
2	5022180	1	SWITCH, PTO
3	5021842	1	SWITCH, Ignition, Complete (includes Ref 4 - 6)
4	7073406	1	KEY, Ignition, Molded (set of 2) -5022789
5	5022790	1	COVER, PLASTIC, SNAP ON
6	5022791	1	PLASTIC NUT
7	5021769	1	SWITCH, PLUNGER, N.C.

Electrical Service Schematic Pt. 1

Note: Unless noted otherwise, use the standard torque specifications

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The above parts group applies to the following Model Nos.:
SFH13320KW (S/N: 41124108 & below)

Electrical Service Schematic Pt. 1

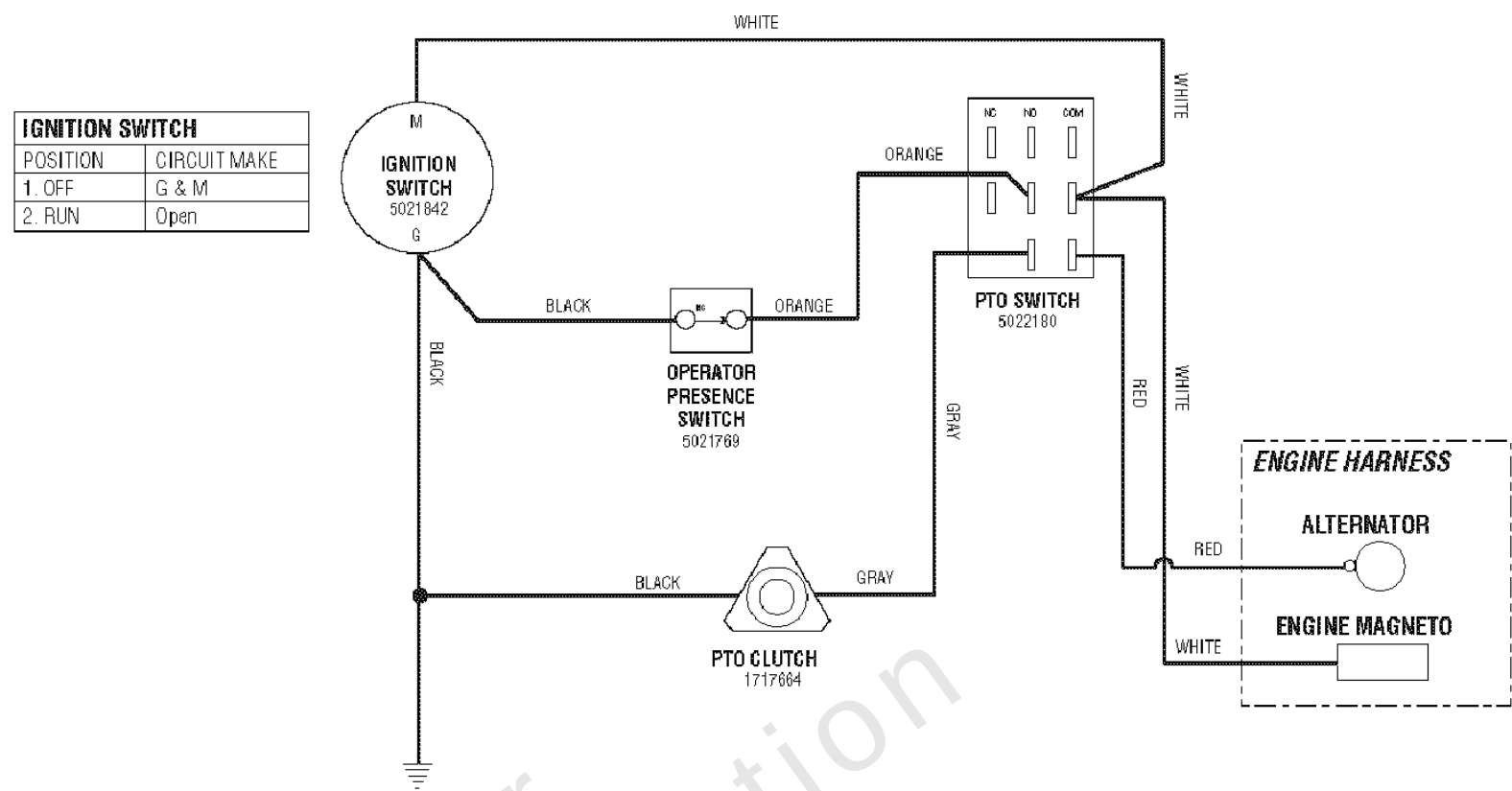
REF NO	PART NO	QTY	DESCRIPTION
	5047772	1	WIRE HARNESS -see Electrical Group Page; (S/N: 41124108 & below)

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Electrical Service Schematic Pt. 2

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5091002



The above parts group applies to the following Model Nos.:
SFH13320KW (S/N: 41124109 & above)

Electrical Service Schematic Pt. 2

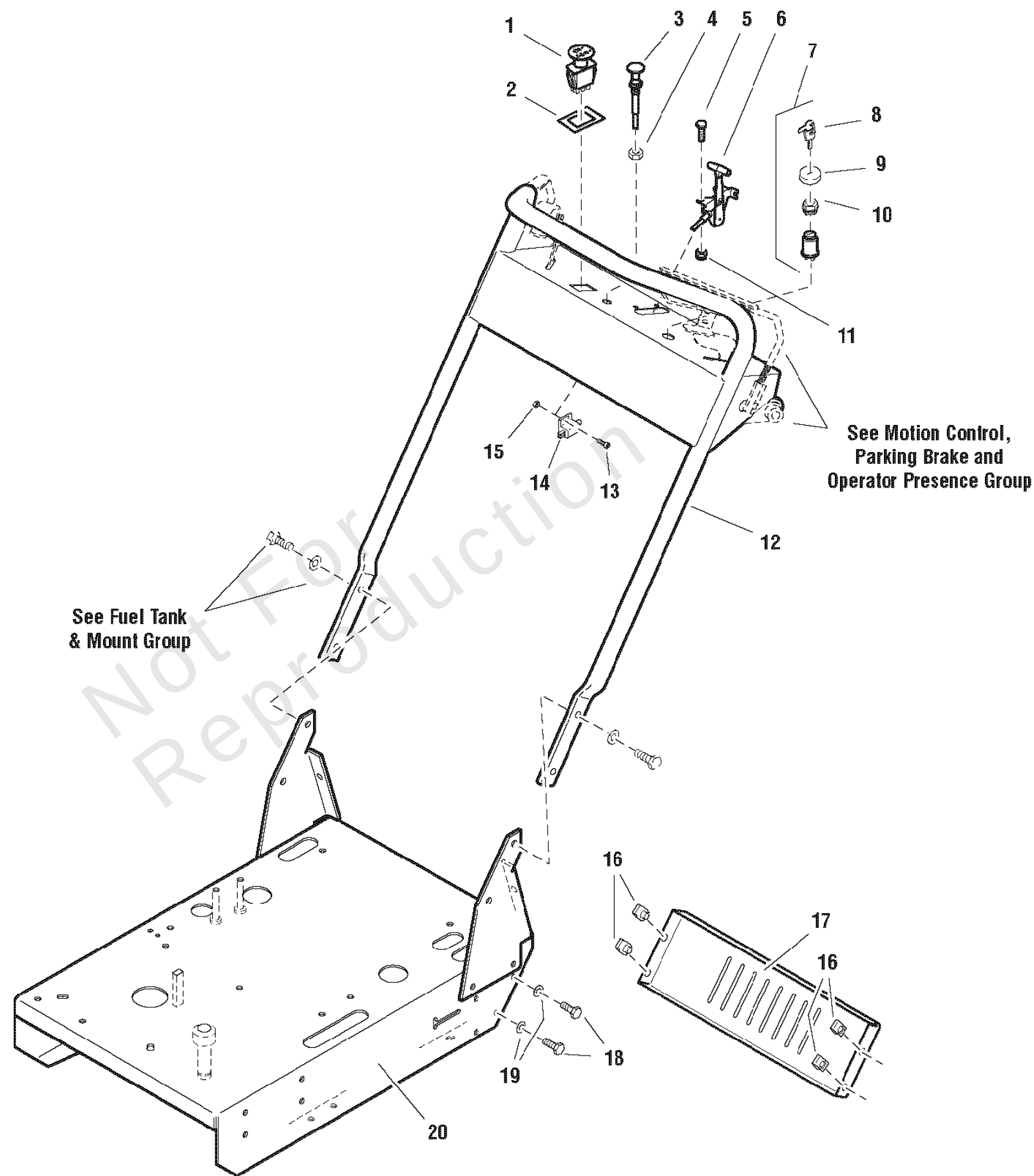
REF NO	PART NO	QTY	DESCRIPTION
	5047772	1	WIRE HARNESS -see Electrical Group Page; (S/N: 41124109 & above)

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Engine Deck & Handle Bars Group

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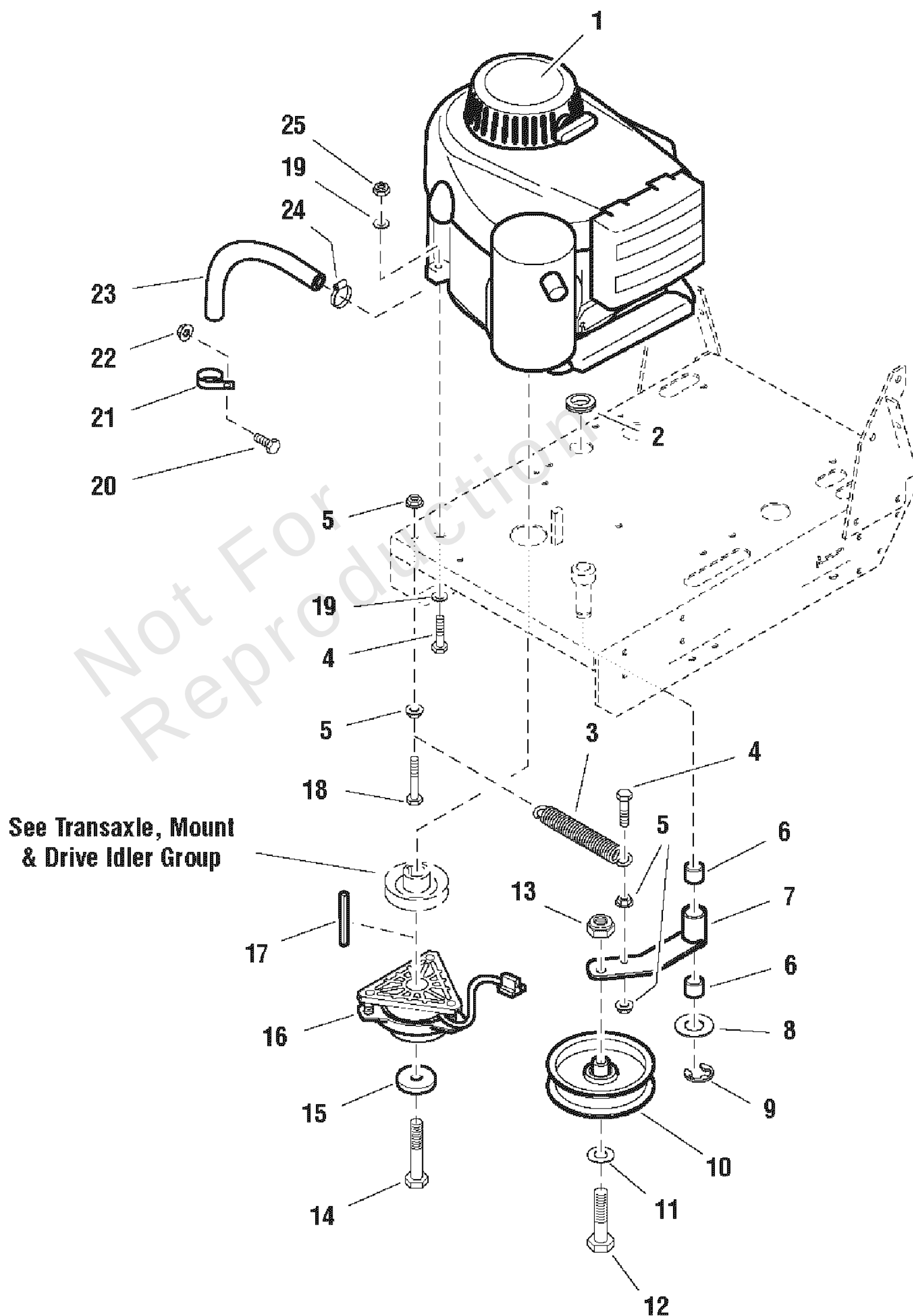
Engine Deck & Handle Bars Group

REF NO	PART NO	QTY	DESCRIPTION
1	5022180	1	SWITCH, PTO
2	5022222	1	SWITCH RETAINER RING
3	5046501	1	CABLE, Choke Control
4	5025035SM	1	NUT (3/8-24 HEX)
5	5025010X6	2	CAPSCREW, Hex Head, 1/4-20 x 3/4
6	5047629	1	CABLE, Throttle Control
7	5021842	1	SWITCH, Ignition, Complete (includes Ref 7 - 9)
8	7073406	1	KEY, Ignition, Molded (set of 2) -5022789
9	5022790	1	COVER, PLASTIC, SNAP ON
10	5022791	1	PLASTIC NUT
11	5025095	2	NUT, 1/4-20 HEX NYLON LOCK
12	5049098	1	HANDLE BAR ASSEMBLY, Complete (includes decals)
12	5048949D		HANDLE BAR ASSEMBLY (Red)
13	5025179X4	2	SCREW, Phillips Hd, #10-24 x 1/2
14	5021769	1	SWITCH, PLUNGER, N.C.
15	7091630	2	NUT, Hex, #10-24 -Was 5025029
16	3022308	4	BODY CLIP, 5/16-18 -Was 5022308
17	5047735D	1	REAR SHIELD
18	5025011X6	4	BOLT, 5/16-18 X 3/4 GD5
19	7091098	4	WASHER, 5/16 -Was 5025155
20	5048230D	1	ENGINE DECK ASSEMBLY

Engine, PTO & Deck Drive Idler Group

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Engine, PTO & Deck Drive Idler Group

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	ENGINE, 13 HP Kawasaki, Model FH381V -5022907
	5021178X3	1	FUEL FILTER
	5021334X1	1	OIL FILTER (49065-2078)
	-----	1	* PRE-CLEANER (11013-7016)
	-----	1	* AIR FILTER (11013-7017)
	-----	1	* MUFFLER (49070-7002)
	-----	1	* EXHAUST MANIFOLD (18088-7001)
	-----	1	* MANIFOLD HEAT SHIELD (13271-7022)
	-----	2	* EXHAUST MANIFOLD GASKET (11060-7021)
	-----	1	* RECOIL ASSEMBLY, Complete (49088-7001)
2	5021379	1	GROMMET
3	5021103	1	SPRING, Extension
4	5025011X12	5	CAPSCREW, Hex Head, 5/16-18 x 1-1/2
5	5025139	4	NUT, Hex Serrated Flange, 5/16-18
6	5020876B	2	BUSHING, Brass
7	5047661D	1	DECK DRIVE IDLER ARM
8	5025160	1	WASHER, 3/4 SAE
9	5020863	1	C-CLIP
10	5021369	1	IDLER PULLEY
11	7091587	1	WASHER, 1/2 -Was 5025158
12	5025018X20	1	BOLT, 1/2-20 X 2-1/2" GD5 CZ
13	5025098	1	NUT, Hex, Nylon Lock, 1/2-20
14	5047632	1	CRANKSHAFT BOLT, 7/16 x 2-3/4
15	5042132	1	CLUTCH RETAINER
16	1686880	1	ELECTRIC CLUTCH -Was 1717664
17	5050407X3	1	KEY, 1/4 Sq. x 2
18	5025011X18	1	CAPSCREW, Hex Head, 5/16-18 x 2-1/4
19	7091098	5	WASHER, 5/16 -Was 5025155
20	5025011X6	1	BOLT, 5/16-18 X 3/4 GD5
21	5023173	1	CLAMP
22	5025127	1	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
23	5050857X10P5	1	HOSE, 10-1/2 (oil drain)
24	5021392	1	CLAMP, #6 Hose
25	7091298	4	NUT, Hex Nylon Lock, 5/16-18 -Was 5025057

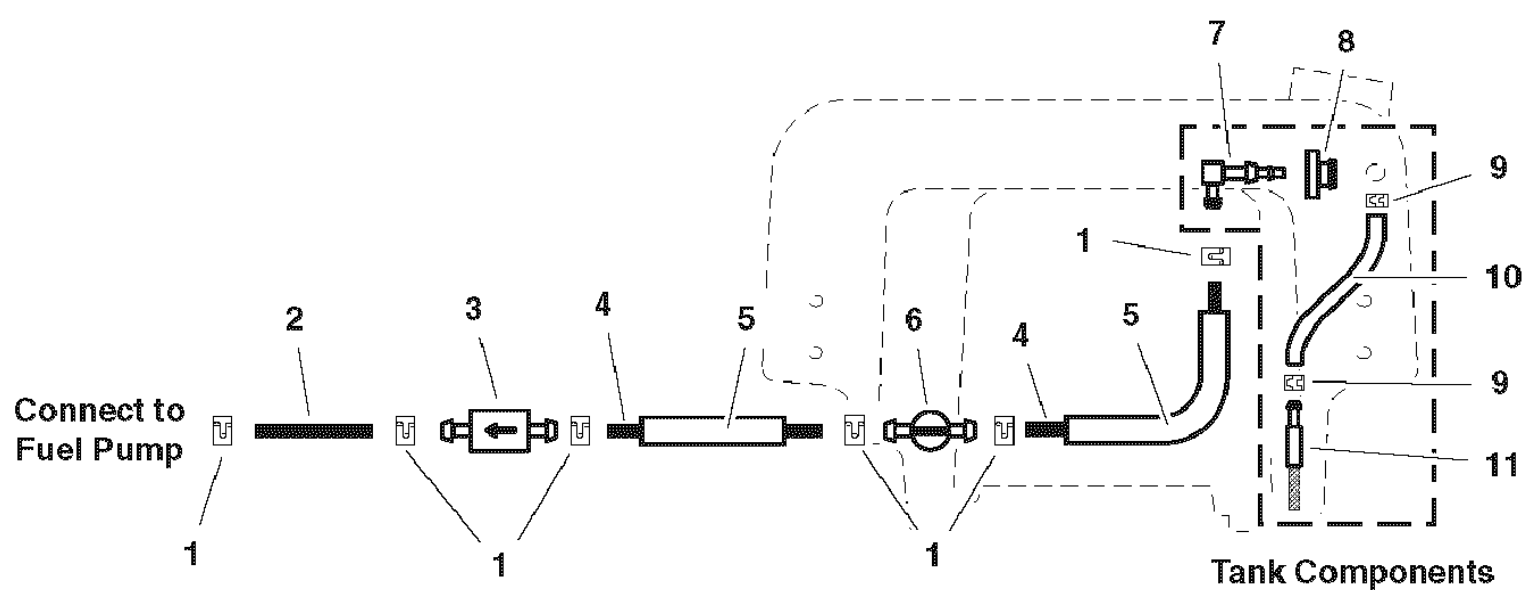
Footnotes:

Note* See your local Kawasaki engine dealer for service parts.

Fuel Supply Hose & Tank Replacement Parts Group

Note: Unless noted otherwise, use the standard torque specifications

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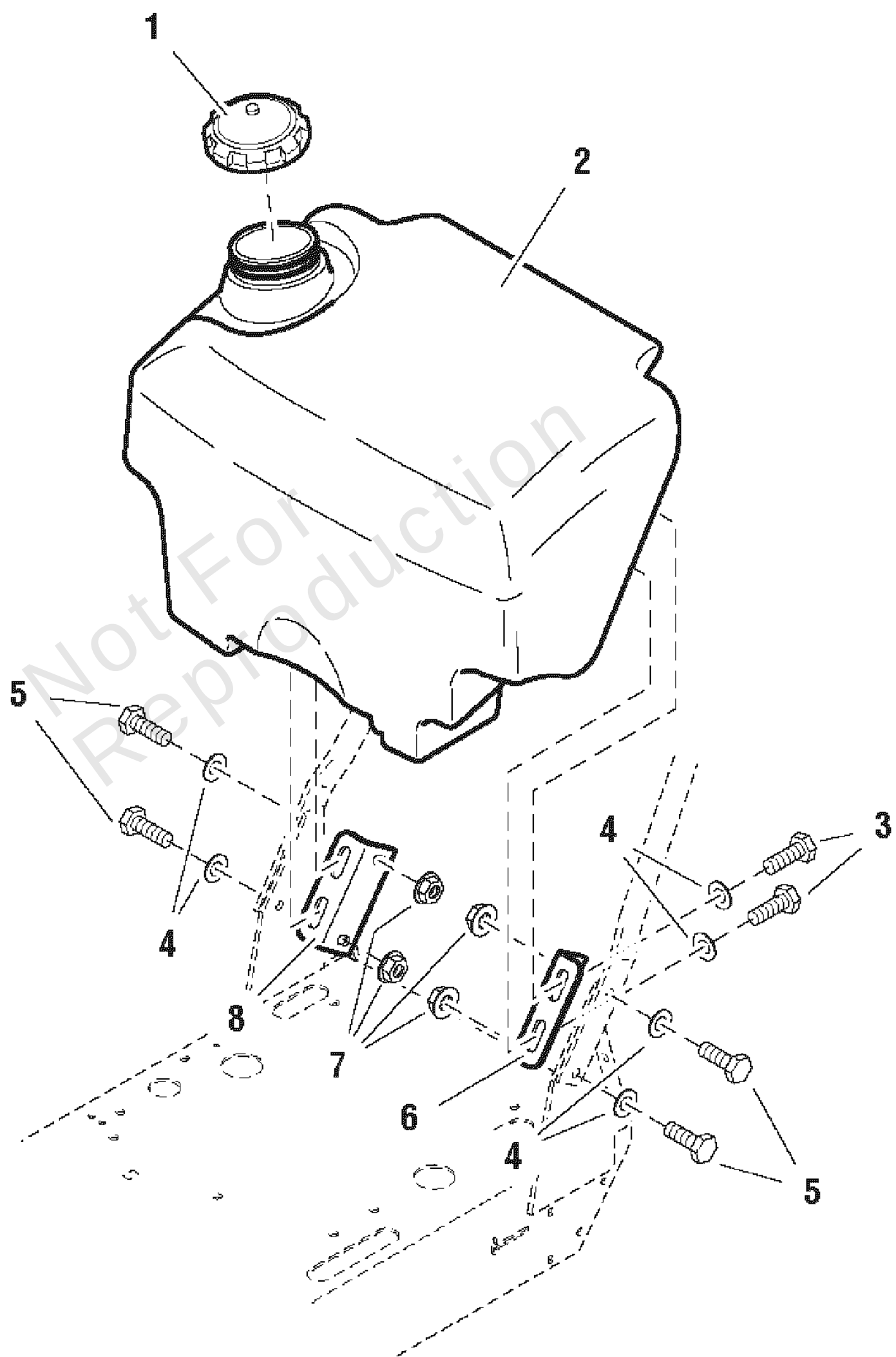
Fuel Supply Hose & Tank Replacement Parts Group

REF NO	PART NO	QTY	DESCRIPTION
1	93807	6	CLAMP, Hose 1/4"
2	5050831X7	1	HOSE, 7 (supplied with engine)
3	21178-3	1	FUEL FILTER
4	5050831X19P5	2	HOSE, 19-1/2"
5	5050833X18	2	WIRE LOOM, 18"
6	5021235	1	VALVE, FUEL Shut-Off
7	5023061	1	ELBOW FITTING
8	1726400	1	BUSHING-FUEL TANK RED RUBBER
9	5023069	2	HOSE CLAMP
10	5050925X20	1	HOSE, 20" -Was 50925-20
11	5023067	1	SCREEN FITTING

Fuel Tank & Mount Group

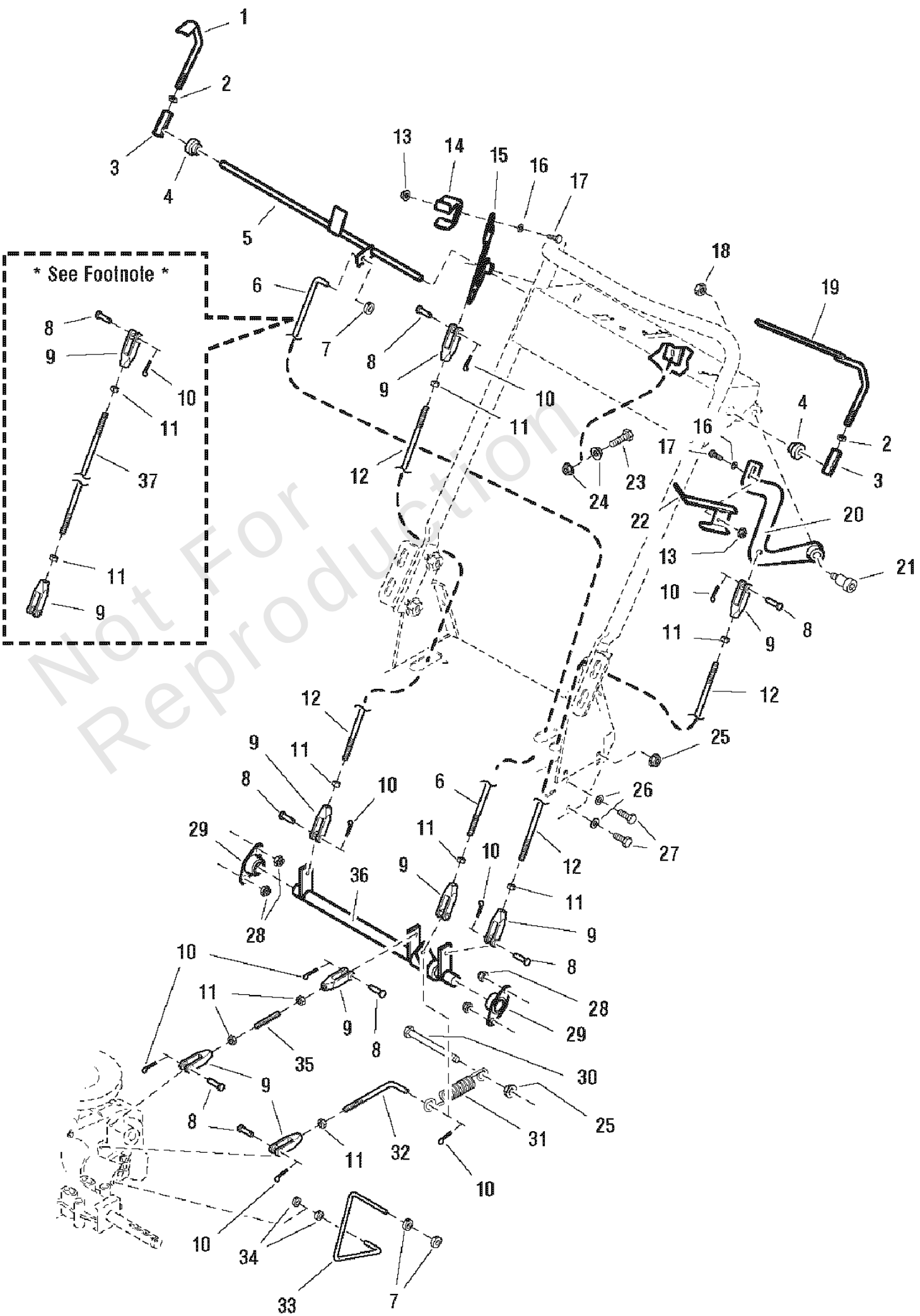
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Fuel Tank & Mount Group

REF NO	PART NO	QTY	DESCRIPTION
1	5022158	1	CAP, FUEL TANK, 3-1/2 NECK
2	5048149	1	FUEL TANK
3	5025013X6	4	BOLT, 3/8-16 X 3/4" GD5 CZ -Was 5025013-6
4	3025156	8	WASHER, 3/8 -Was 5025156
5	5025013X10	4	BOLT, 3/8-16 X 1-1/4" GD5 CZ
6	5048342D	1	FUEL TANK MOUNT - LH
7	5025128	4	NUT, Hex Serrated Flange, 3/8-16
8	5048343D	1	FUEL TANK MOUNT - RH



Motion Control, Parking Brake & Operator Presence Group

REF NO	PART NO	QTY	DESCRIPTION
1	5049027	1	OPERATOR PRESENCE HANDLE - RH
2	5025034	2	NUT, Hex, 3/8-16
3	5043417	2	ADJUSTER LINKAGE
4	5023257	2	SHOULDER SPACER
5	5048960	1	SWITCH ROD
6	-----	1	* See Footnote *
7	5020047	2	COLLAR, Set, 5/16
8	5025213X8	8	PIN, Clevis, 5/16 x 1
9	5020979	9	CLEVIS, Plastic, 5/16-24
10	7091597	9	PIN, Cotter -Was 5025201-6
11	5025033	9	NUT, Hex, 5/16-24
12	5047642	2	THUMB CONTROL ROD
13	5025126	4	NUT, 1/4-20 HEX SERR. FLANGE
14	5048950	1	THUMB PLATE - RH
15	5048981D	1	PIVOT CONTROL - LH
16	5025169	4	WASHER, 1/4 LOCK
17	5025010X5	4	CAPSCREW, Hex Head, 1/4-20 x 5/8
18	5025100	2	NUT, Hex Side Lock, 3/8-16
19	5049026	1	OPERATOR PRESENCE HANDLE - LH
20	5048982D	1	PIVOT CONTROL - RH
21	5025223	2	SHOULDER BOLT, 1/2 x 1
22	5048951	1	THUMB PLATE - LH
23	5025011X10	1	CAPSCREW, Hex Head, 5/16-18 X 1-1/4" -Was 5025011-10
24	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
25	5025128	2	NUT, Hex Serrated Flange, 3/8-16
26	7091098	4	WASHER, 5/16 -Was 5025155
27	5025011X6	4	BOLT, 5/16-18 X 3/4 GD5
28	7091298	4	NUT, Hex Nylon Lock, 5/16-18 -Was 5025057
29	5021098	2	BEARING, Flange
30	5025013X32	1	BOLT, 3/8-16 X 4" GD5 CZ
31	5049352	1	SPRING, Extension
32	5048328	1	BRAKE LINKAGE ROD
33	5047732	1	DUMP VALVE ROD
34	5022481	2	COLLAR, Set, 1/4
35	5047740	1	LINK STUD
36	5047697D	1	CONTROL SHAFT ASSEMBLY
37	5049225	1	BRAKE LINKAGE ROD
38	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL) -not shown
39	5025055X14	1	CAPSCREW, Hex Head, TFL, 5/16-18 x 1-3/4 -not shown

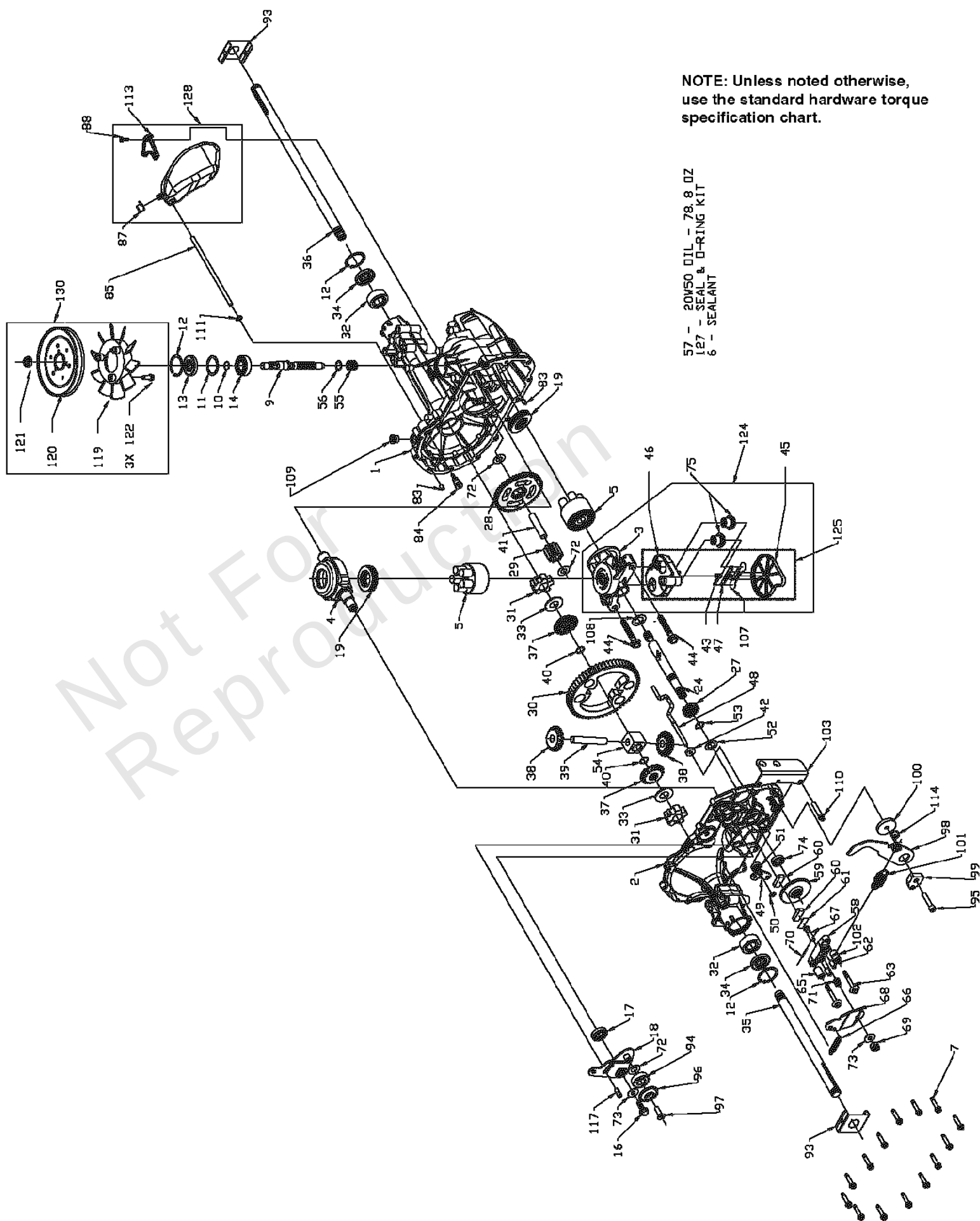
Footnotes:

Note* - Ref No. 6 is obsolete. Replace with Ref. No. 8, 9, 10, 11 & 37.

Transaxle Assembly - SERVICE PARTS

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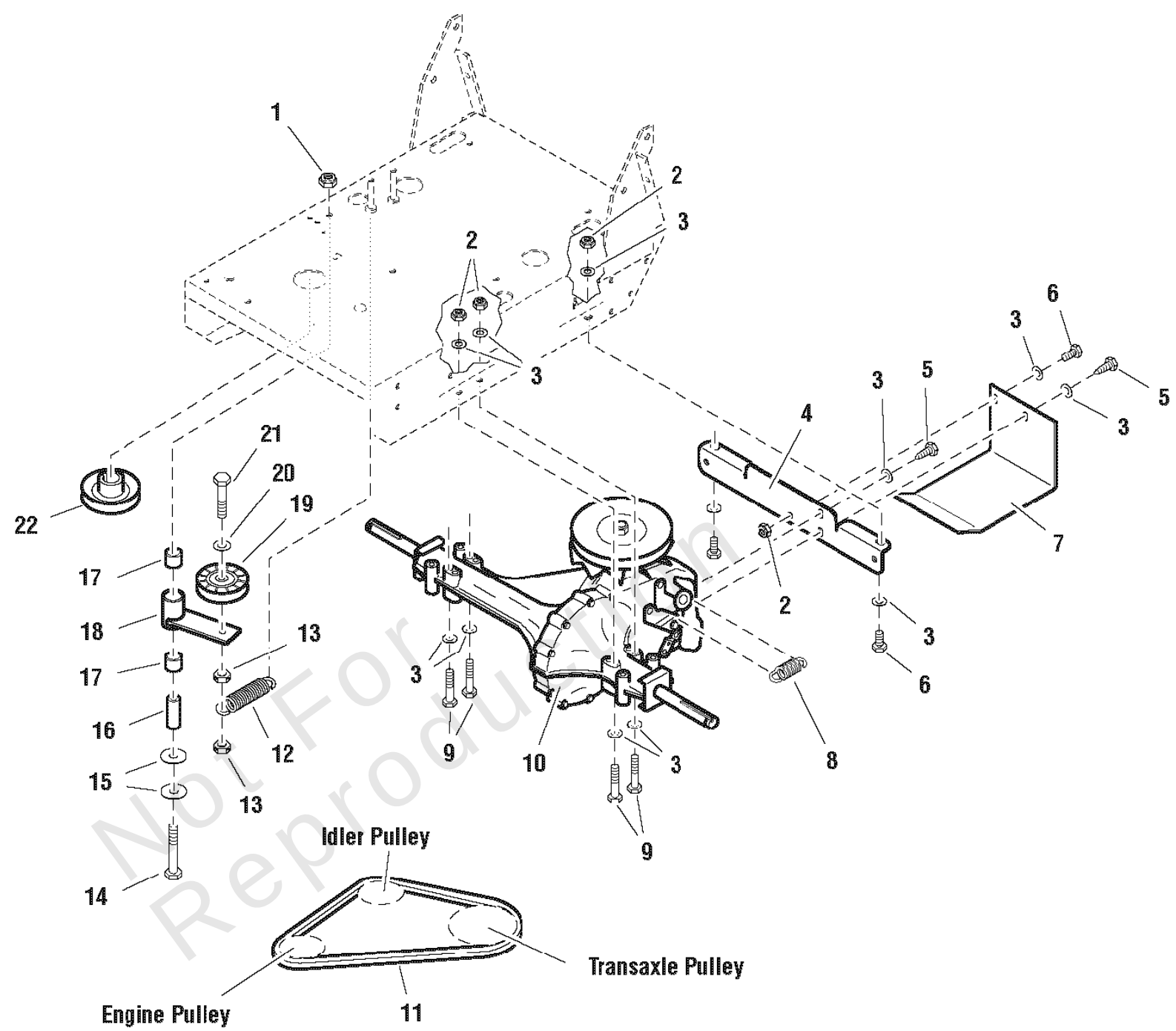
Transaxle Assembly - SERVICE PARTS

REF NO	PART NO	QTY	DESCRIPTION
6	5022905X1	10.5 oz.	SEALANT
9	5022905X2	1	SHAFT, INPUT
10	5022905X3	1	RING - RETAINING
11	5022905X4	1	SPACER
12	5022905X5	3	RING - RETAINING
14	5022905X6	1	BALL BEARING
32	5022905X7	2	OUTBOARD SLEEVE BEARING
35	5022905X8	1	AXLE SHAFT - RH
36	5022905X9	1	AXLE SHAFT - LH
55	5022905X10	1	SPRING - HELICAL COMPRESSION
56	5022905X11	1	WASHER
57	5022905X12	78.8 oz.	20W-50 OIL
101	5022967	1	HYDRO RETURN SPRING
119	5022905X13	1	FAN, 6, 10 BLADE
128	5022905X14	1	EXPANSION TANK KIT
130	5022905X15	1	FAN/PULLEY KIT (includes Ref. 119)

Transaxle, Mount & Drive Idler Group

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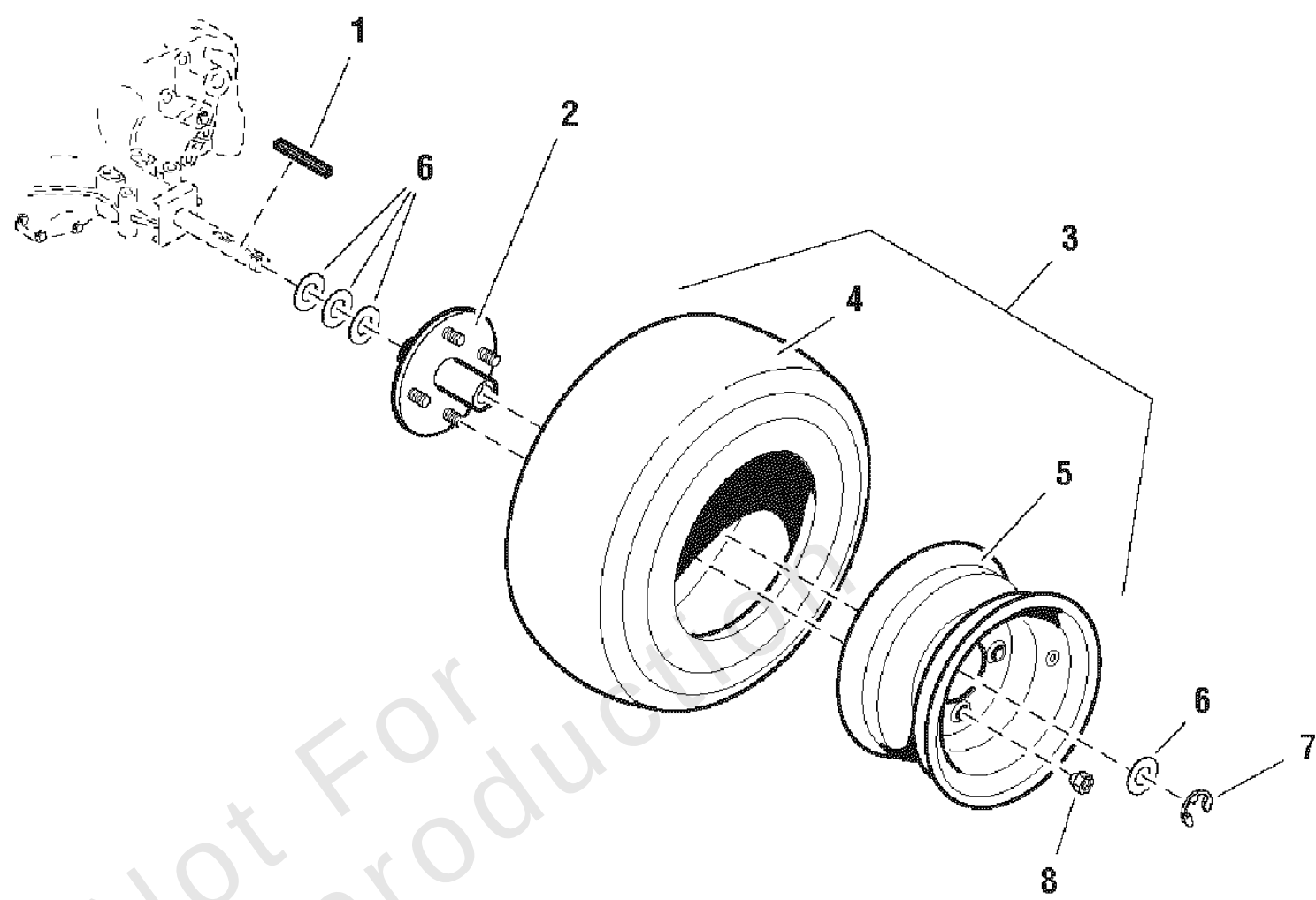
Transaxle, Mount & Drive Idler Group

REF NO	PART NO	QTY	DESCRIPTION
1	5025096	1	NUT, 3/8-16 HEX NYLON LOCK
2	7091298	7	NUT, Hex Nylon Lock, 5/16-18 -Was 5025057
3	7091098	12	WASHER, 5/16 -Was 5025155
4	5047582D	1	TRANSAXLE BRACE
5	5025059X6	2	CAPSCREW, Hex Head, Self-Tapping, 5/16-18 x 3/4
6	5025011X6	3	BOLT, 5/16-18 X 3/4 GD5
7	5048312D	1	SKID PLATE
8	5022967	1	HYDRO RETURN SPRING
9	5025011X24	4	CAPSCREW, Hex Head, 5/16-18 x 3
10	5022905	1	HYDROSTATIC TRANSAXLE
11	5023058	1	BELT
12	5020807	1	SPRING, Extension
13	5025100	2	NUT, Hex Side Lock, 3/8-16
14	5025013X24	1	BOLT, 3/8-16 X 3" GD5 CZ -Was 5025013-24
15	5025165	2	WASHER, Fender, 3/8
16	5047716	1	SPACER
17	5020876B	2	BUSHING, Brass
18	5047717D	1	TRANSAXLE IDLER ARM
19	5043627	1	IDLER PULLEY ASSEMBLY
20	3025156	1	WASHER, 3/8 -Was 5025156
21	5025013X16	1	BOLT, 3/8-16 X 2, GD5, CZ
22	5047914	1	TRANSAXLE DRIVE PULLEY

Wheel & Tire Group

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Wheel & Tire Group

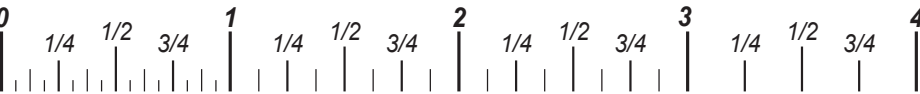
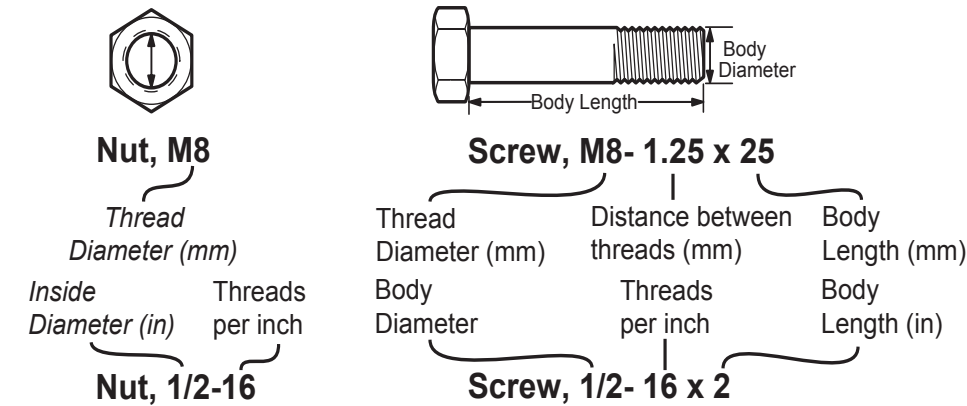
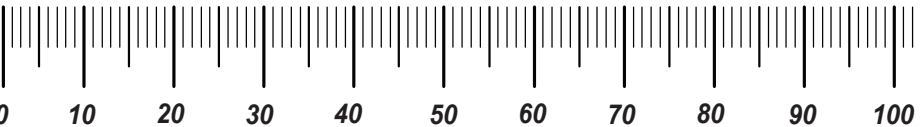
REF NO	PART NO	QTY	DESCRIPTION
1	5048409	2	KEY, 3/16" SQ. X 2-1/2
2	5048417	2	DRIVE HUB
3	-----	2	NLA - Must order 5023104X1 and 5023104X2 individually
4	5023104X2	2	TIRE, 16. x 6.5 x 8
5	5023104X1	2	WHEEL ASSEMBLY, 8 x 5.38
6	5025520X3	8	SHIM
7	5020863	2	C-CLIP
8	5020601	8	LUG NUT

Not For Reproduction

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).

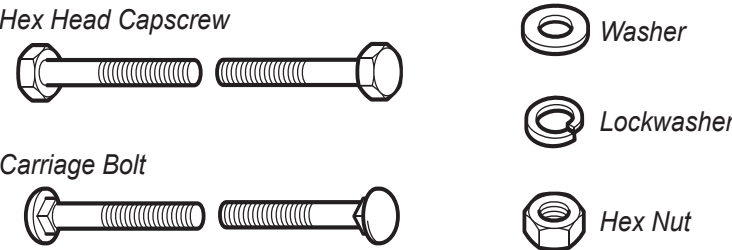
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

