



Parts Manual

Mfg. No: 2690504

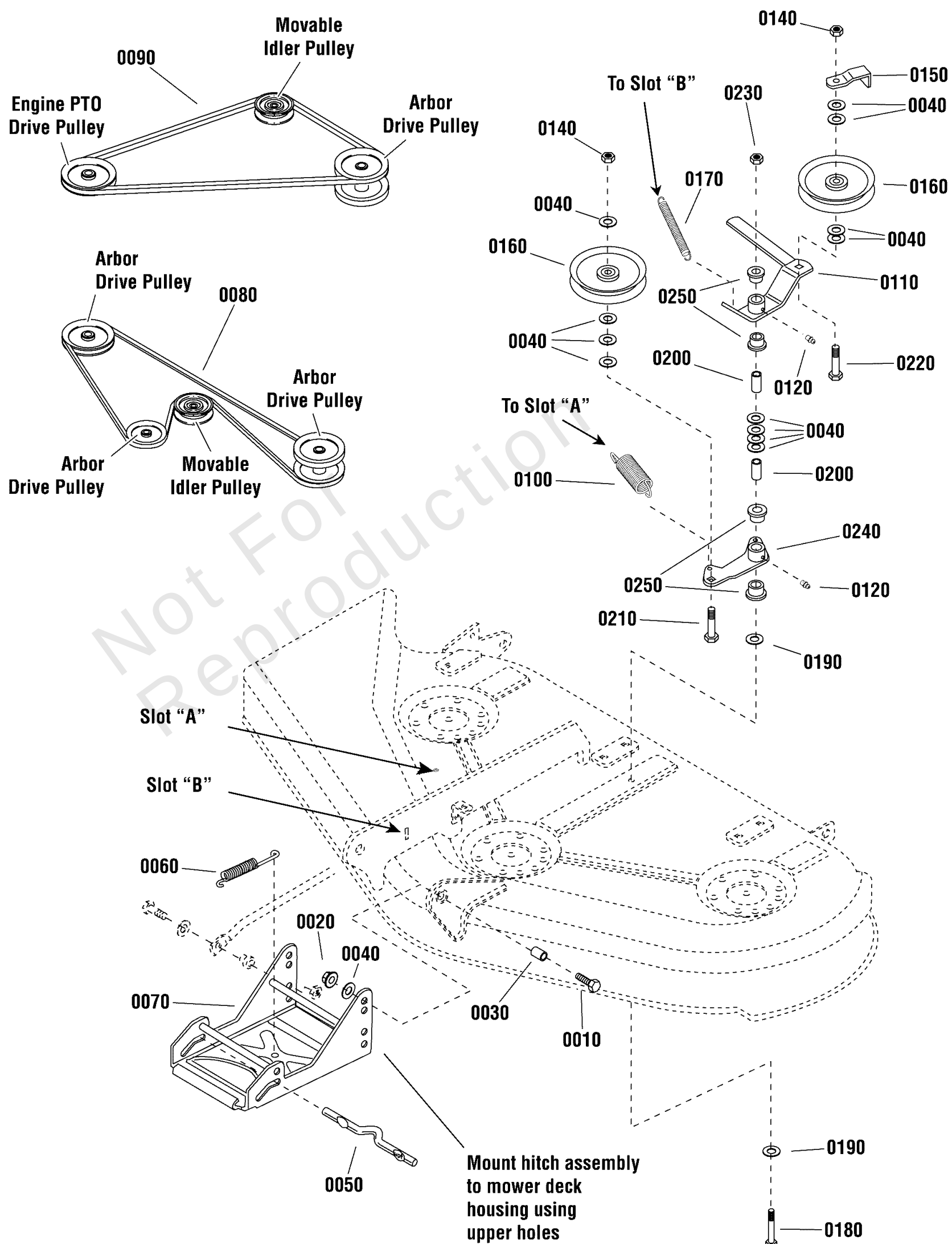
Conquest, 23HP Hydro RMO and 44"
Mower Deck (CE/Export)

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44" (112cm) Mower Deck - Clutch & Support Group

Note: Unless noted otherwise, use the standard torque specifications

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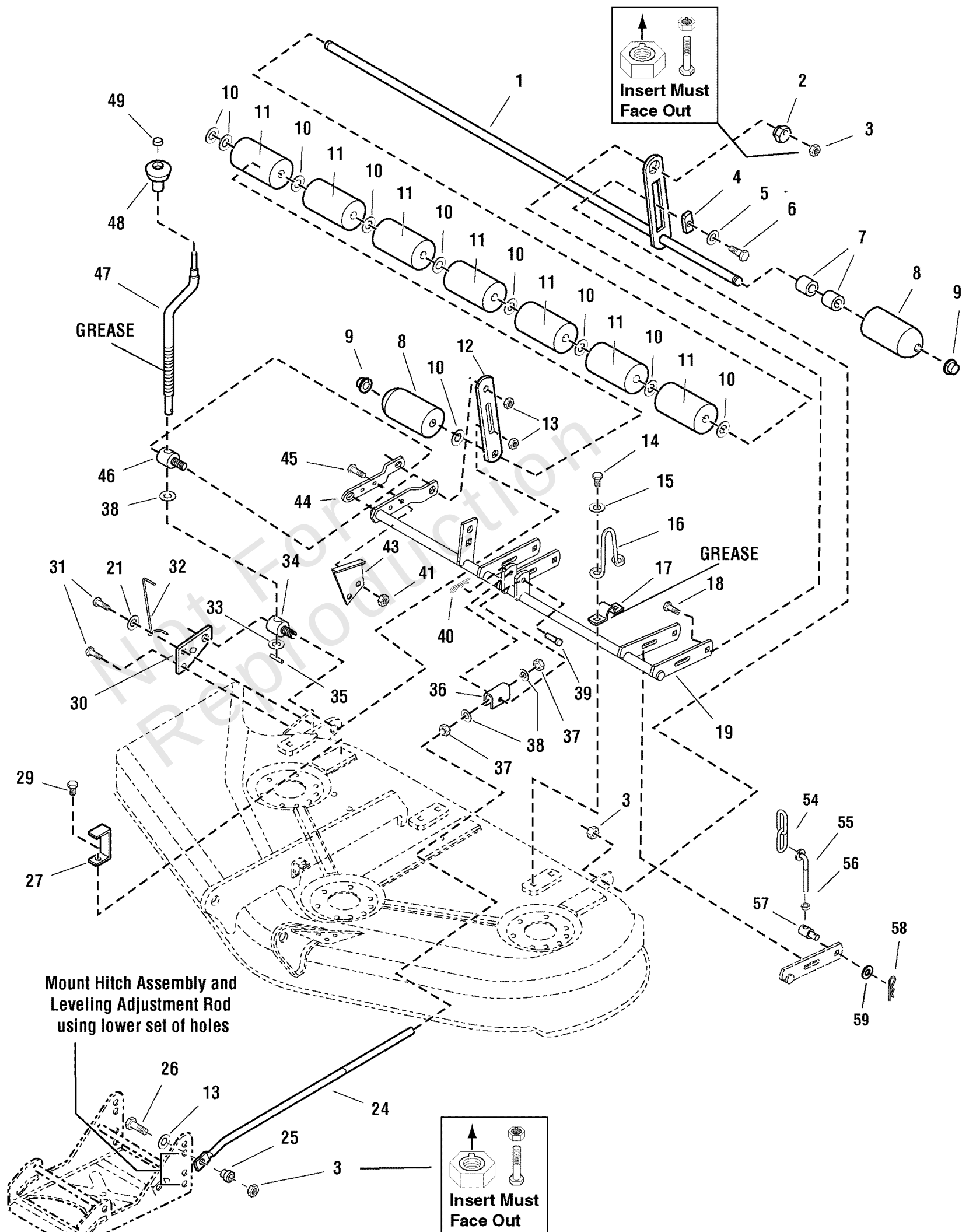
44" (112cm) Mower Deck - Clutch & Support Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1921968SM	2	CAPSCREW, Hex, 3/8-16 x 1-3/8
0020	2860681SM	2	NUT, Hex Flange, 3/8-16
0030	2157081SM	2	SPACER, 3/8 x 3/4 x 1/2
0040	1924940SM	14	WASHER, 3/8
0050	1715759SM	1	ROD, 3/8 x 8
0060	2156302SM	1	SPRING
0070	1707432ASM	1	HITCH ASSEMBLY
0080	1721532SM	1	BELT, 83.1
0090	1601672SM	1	V-BELT, Mower Drive
0100	1656936SM	1	SPRING
0110	1704658SM	1	LEVER ASSEMBLY, Idler
0120	2812808SM	2	GREASE FITTING
0140	1960687SM	2	NUT, Lock, 3/8-16
0150	1677135ASM	1	BELT STOP, Idler
0160	1724387SM	2	PULLEY, Idler
0170	1715435SM	1	SPRING, EXTENSION, 1.
0180	1923938SM	1	CAPSCREW, Hex Head, 3/8-16 x 3-1/2
0190	1924356SM	2	WASHER, 3/8
0200	1674669SM	2	SPACER-0.39 IDX0.625O
0210	1931352SM	1	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2
0220	1960315SM	1	CARRIAGE BOLT, 3/8-16 x 2
0230	1960339SM	2	NUT, Hex, 3/8-16
0240	1718561SM	1	LEVER ASSEMBLY, Idler Arm -(Includes Ref. No. 0250)
0250	1676148SM	4	BUSHING-0.628IDX

44" Mower Deck - Height Adjustment & Roller Bar

Note: Unless noted otherwise, use the standard torque specifications

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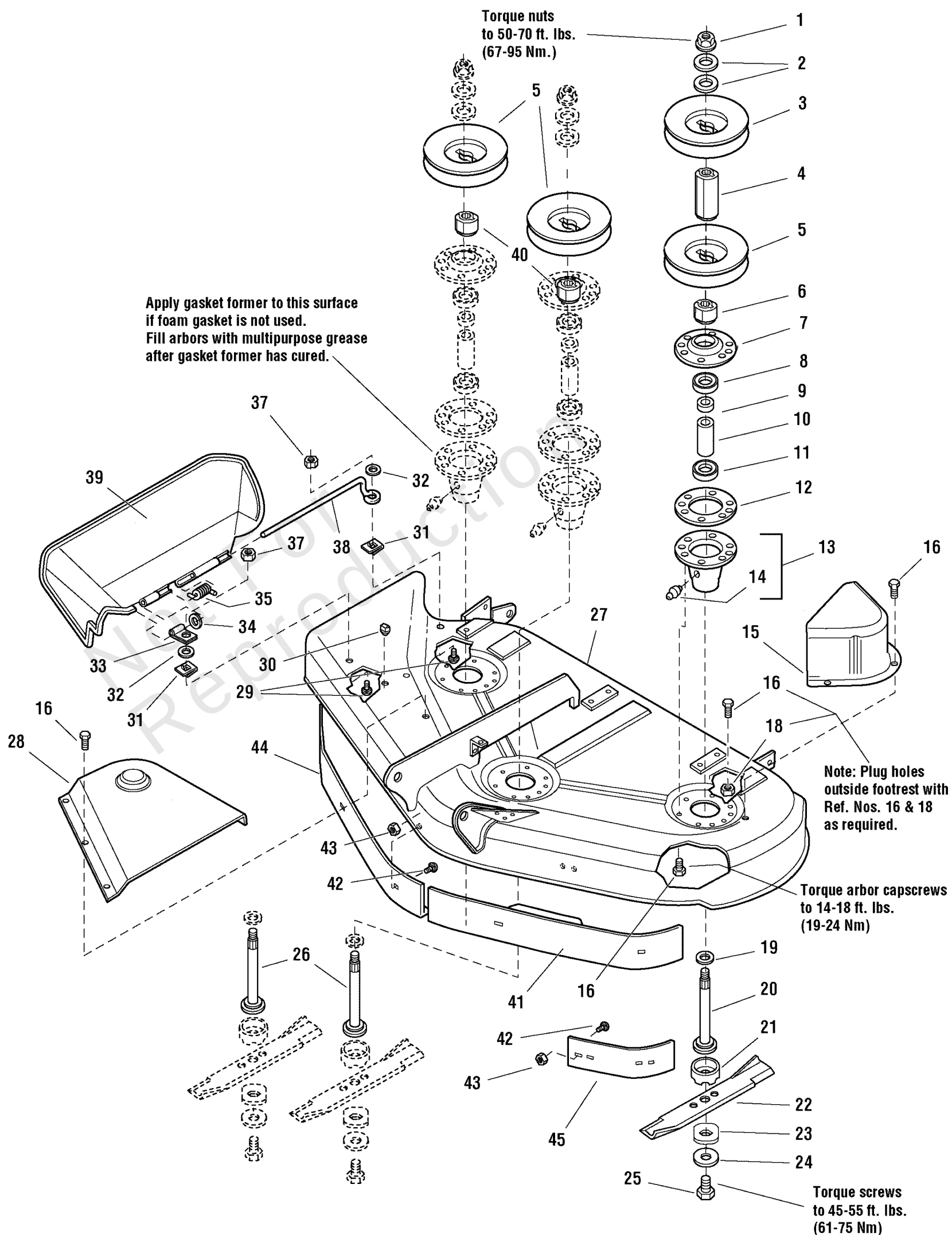
44" Mower Deck - Height Adjustment & Roller Bar

REF NO	PART NO	QTY	DESCRIPTION
1	1685443SM	1	SHAFT ASSY.,ROLLER 44
2	1704082SM	1	NUT, Hex Adjusting, 11/16
3	2860681SM	3	NUT, Hex Flange, 3/8-16
4	1677507SM	1	SLIDE
5	1924361SM	1	WASHER, Plain, 1/2
6	2172622SM	1	BOLT, Shoulder, 3/8-16 X 1.34, 1/2 Shoulder
7	1602946SM	2	SPACER, .66 ID
8	1722036SM	2	ROLLER, Rounded, 4.1 LG, 650 ID, 2.50 OD Rounded End
9	1960520SM	2	NUT, Push, 5/8
10	1924366SM	10	WASHER, 5/8
11	1668513SM	7	ROLLER, .652 ID, 2.50 OD, 4.10 LG
12	1704074ASM	1	BAR, Roller
13	1930644SM	2	NUT-HEX FLANGE 1/2-1
14	1664847SM	5	CAPSCREW, Hex Head Taptite, 5/16 -18 x 3/4
15	1924940SM	5	WASHER, 3/8
16	1722747SM	1	UP-STOP, 6-1/4 High, Black
17	1665374SM	3	STRAP-1.00WD 3.06LG .
18	1931352SM	1	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2
19	1733521ASM	1	ARM ASSEMBLY, Mower
21	1919381SM	1	WASHER, 5/16, Black
24	1704093SM	1	ROD, Adjustment
25	1706644SM	1	SPACER,3/8X3/4X15/16
26	1922606SM	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
27	1722748ASM	1	BRACKET, Up-Stop, 6" Long
29	1664847SM	2	CAPSCREW, Hex Washer Head Taptite, 5/16-18 x 3/4, Black
30	1704080ASM	1	PLATE, Mower Support
31	1931202SM	2	CAPSCREW, Hex Head Taptite, 5/16-18 x 1-1/4
32	1704114SM	1	INDICATOR, Cutting Height
33	1704097SM	1	WASHER, Detent
34	1704086SM	1	TRUNNION
35	2816001SM	1	PIN-SPRING .188 X 1.0
36	1704081ASM	1	TRUNNION
37	1913744SM	2	NUT, Hex Jam, 1/2-13
38	1960170SM	3	WASHER, 33/64
39	2118053SM	1	PIN, Clevis
40	1960074SM	3	CLIP, HAIR PIN .093DI
41	1931277SM	2	NUT, Whiz Lock 5/16-18
43	1704116ASM	1	BRACKET-HEIGHT OF CUT
44	1704083ASM	1	ARM, Rear, Mower, RH
45	1921977SM	2	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
46	1704087SM	1	TRUNNION, Threaded
47	1719901SM	1	CRANK, Height Adjustment
48	1714084SM	1	KNOB, Height Crank
49	1960093SM	1	PAL NUT
54	1731383ASM	1	CHAIN, 2-Link
55	1731384SM	1	ROD, Height Adjustment
56	1920161SM	1	NUT-HEX JAM 5/16-18
57	1731382SM	1	TRUNNION
58	1960074SM	1	CLIP, HAIR PIN .093DI
59	1924940SM	1	WASHER, 3/8

44" Mower Deck - Housing, Arbors & Blades

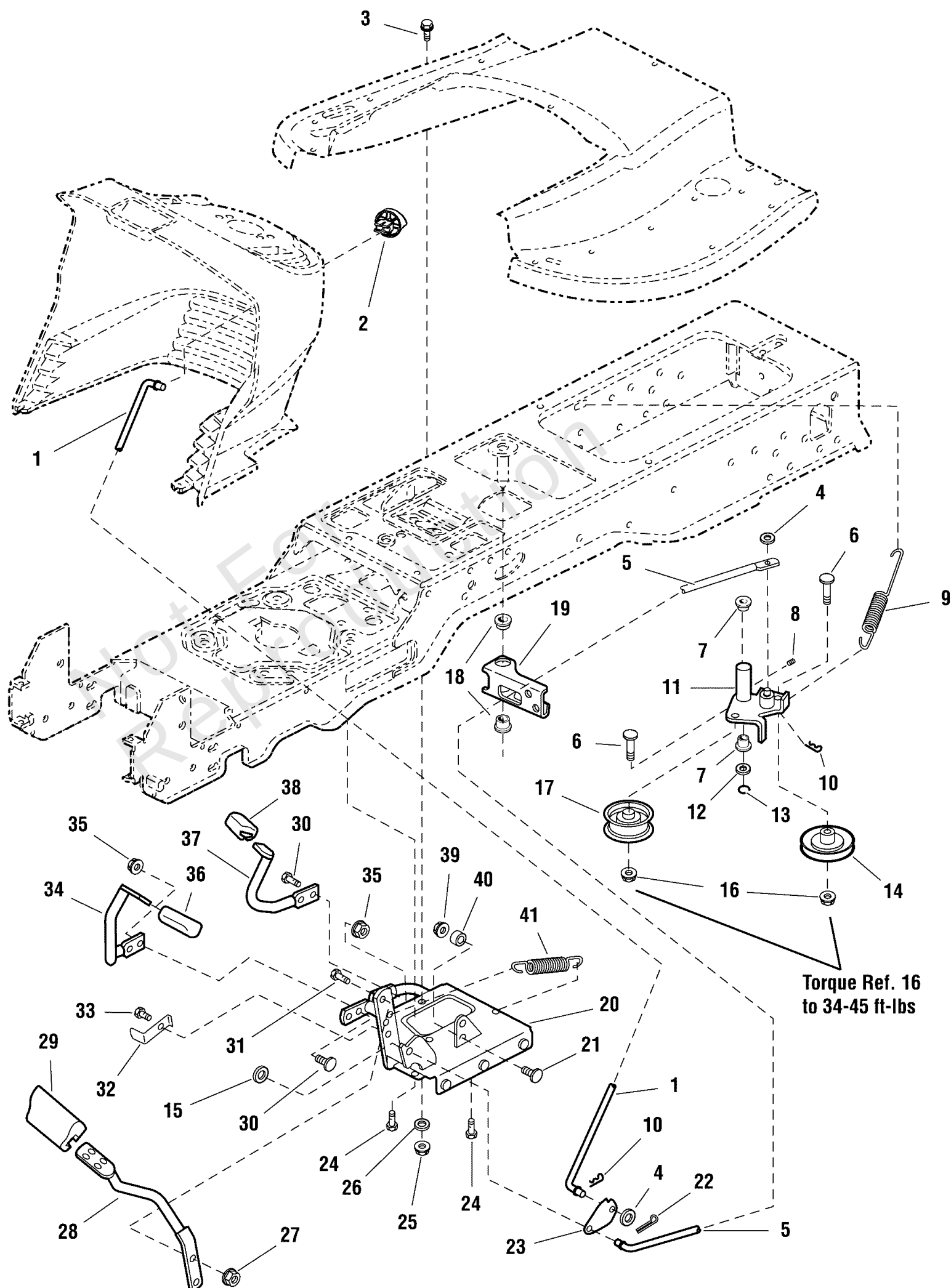
Note: Unless noted otherwise, use the standard torque specifications

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44" Mower Deck - Housing, Arbors & Blades

REF NO	PART NO	QTY	DESCRIPTION
1	1714419	3	NUT, Hex Flange, 9/16-18
2	1713675	6	WASHER, Bellville, 9/16
3	1713161	1	PULLEY, LH, .49" Shallow-Groove OD 4.5"
3	1713091	1	PULLEY, 5 O.D.
4	1713158	1	HUB, Double Pulley
5	1713098	3	PULLEY, .49" Shallow-Groove OD 4.25"
6	1713533	1	HUB, Double Pulley
7	1655729A	3	COVER, Arbor Housing
8	2108202	3	BEARING, Ball, 3/4 x 1-3/4 x 5/8
9	1715724	3	SPACER, 21/32 x 3/4 x 5/8
10	1732544	3	SPACER, 11/16 x 5/32 x 2-11/16
11	1705897	3	BEARING, Ball, 11/16 x 1-9/16 x 15/32
12	1707335	3	GASKET, Foam
13	1713338A	3	HOUSING ASSEMBLY, Arbor Bottom, w/Lube Fitting -(Includes Ref. No. 14)
14	1704314	3	FITTING, Grease
15	1720560A	1	COVER, Arbor
15	1732200A	1	COVER, Arbor without Ribs
16	1664847SM	29	CAPSCREW, Hex Head Taptite, 5/16-18 x 3/4
18	1931277	1	NUT, Hex Flange, 5/16,
19	1713619	3	WASHER, Bellevilled, 9/16, Black
20	1713612	1	SHAFT, Arbor (LH)
21	1713196	3	SHIELD, Grass, Lower
22	1704100A	3	BLADE, Mower, 16-1/8 -(For 44" Deck)
23	1713089	3	WASHER, Hex, 11/16 x 2
24	1656916SM	3	WASHER, SPRING 0.475I
25	2823471	3	CAPSCREW, Hex Head, 7/16-14 x 1
26	1713195	2	SHAFT, Arbor (Center & RH)
27	1685411	1	MOWER HOUSING ASSEMBLY, 44" Mower (Orange)
27	1687154	1	MOWER HOUSING ASSEMBLY, 44" Mower (Red)
28	1715673	1	COVER, Arbor
29	1931318	2	CARRIAGE BOLT, 1/4-20 x 7/8
30	1705115	1	PLUG, Hole
31	1960518	2	NUT, Push
32	1960353	2	WASHER, 1/4, Black
33	1704873	1	CLAMP
34	1919326	1	WASHER, 5/16, Black
35	7101082	1	SPRING
37	1920397	2	NUT, ESNA 1/4-20
38	1706709	1	ROD, Deflector, Front
39	1705449	1	DEFLECTOR, Plastic
40	1713197	2	HUB, Pulley, Center & RH
41	1716879A	1	BAFFLE, Anti-Blowout, LH -(CE/Export)
42	1931333	1	CARRIAGE BOLT, 5/16-18 x 3/4, Black -(CE/Export)
43	1927557	1	NUT, Hex Flange Whiz Lock, 5/16-18, Black -(CE/Export)
44	1716878A	1	BAFFLE, Anti-Blowout, RH -(CE/Export)
45	1724538A	1	BAFFLE, Blowout, 44" & 50"



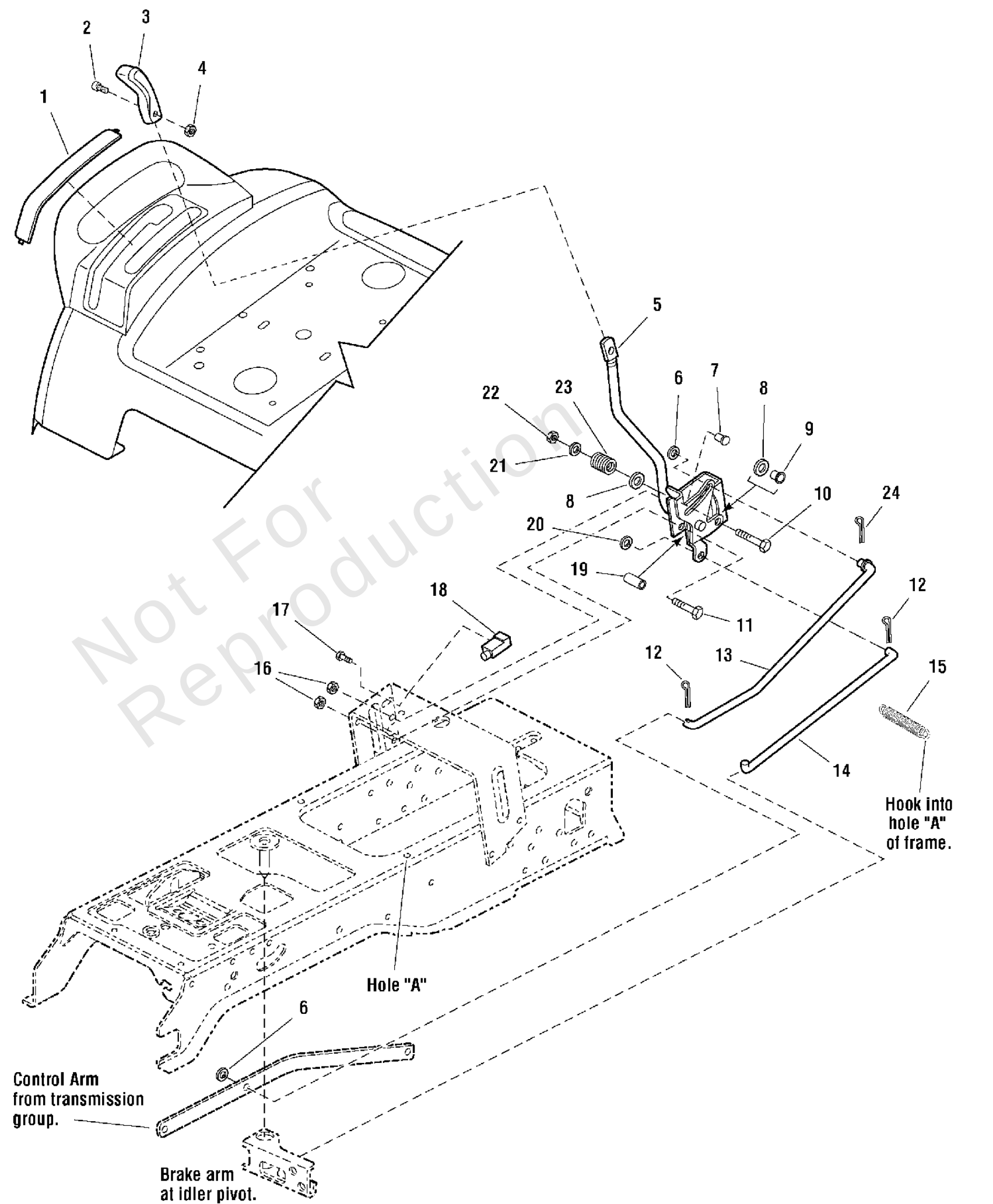
Controls Group

REF NO	PART NO	QTY	DESCRIPTION
1	1721353SM	1	ROD, Brake Lock
2	1721891SM	1	KNOB, Push On, Red Plastic "P"
3	1930591SM	1	CAPSCREW, Hex Flange Whiz Lock, 5/16-18 x 3/4
4	1919326SM	2	WASHER, 5/16
5	1721476SM	1	ROD, Brake
6	1931353SM	2	BOLT, Carriage, 3/8-16 x 1 3/4
7	1663114SM	2	BUSHING, 5/8 x 3/4 x 3/4, Nylon
8	2821133SM	1	FITTING, Lube, 1/4
9	1725250SM	1	SPRING, Extension
10	1722460SM	3	PIN, Quick
11	1726882SM	1	ARM & HUB ASSEMBLY, Idler
12	1960020SM	1	WASHER, Plain, 21/32
13	1704420SM	1	RING, Clipring Extension
14	1721134SM	1	PULLEY, w/Bearing
15	1924940SM	1	WASHER, 3/8
16	1960687SM	2	NUT, Hex Flange ESNA, 3/8-16
17	1721133SM	1	PULLEY, IDLER
18	1723237SM	2	BUSHING, 1 x 1-1/8 x 5/8, Nylon
19	1722513SM	1	ARM, Brake
20	1726763AYP	1	PEDAL ASSY.
21	1931320SM	1	BOLT, Carriage, 1/4-20 x 1-1/4
22	1918447SM	1	PIN, Cotter, Black
23	1721354ASM	1	LATCH, Brake
24	1664847SM	3	CAPSCREW, Hex Washer Head Taptite, 5/16-18 x 3/4
25	1919438SM	1	NUT, Hex Lock ESNA Light, 5/16-18
26	1919381SM	1	WASHER, 5/16, Black
27	1927557SM	2	NUT, Hex Flange Whiz Lock Large, 5/16-18
28	1722535ASM	1	PEDAL, Brake
29	1721577SM	1	PAD, Brake Pedal
30	1931334SM	4	BOLT, Carriage, 5/16-18 x 7/8
31	703570	2	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
32	1722083ASM	1	ACTUATOR, Switch 2.53" Long
33	1923683SM	1	CAPSCREW, Hex Washer Head Taptite, 3/8-16 x 3/4
34	1722070ASM	1	PEDAL, Forward
35	1960636SM	4	NUT, Hex KEPS, 5/16-18
36	1721675SM	1	PAD, Foot Pedal Forward
37	1722071ASM	1	PEDAL, Reverse
38	1721674SM	1	PAD, Foot Pedal Reverse
39	1920397SM	1	NUT, Hex Lock ESNA Light, 1/4-20
40	1686612SM	1	CAM, Roller
41	1721995SM	1	SPRING, Extension, 5/8 x 6-5/8

Controls Group - Cruise Control

Note: Unless noted otherwise, use the standard torque specifications

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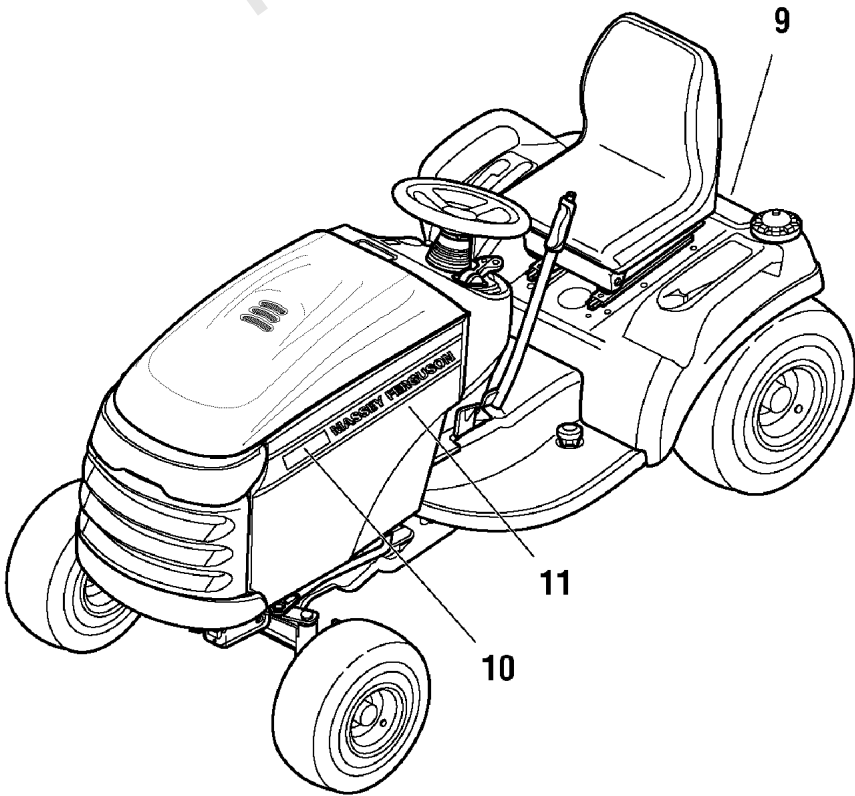
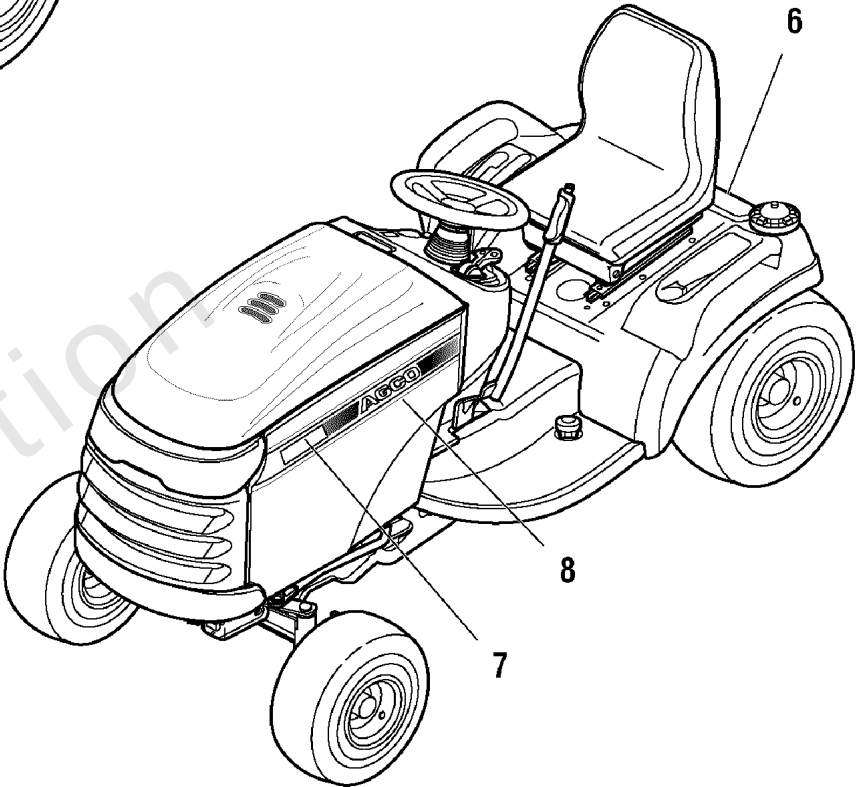
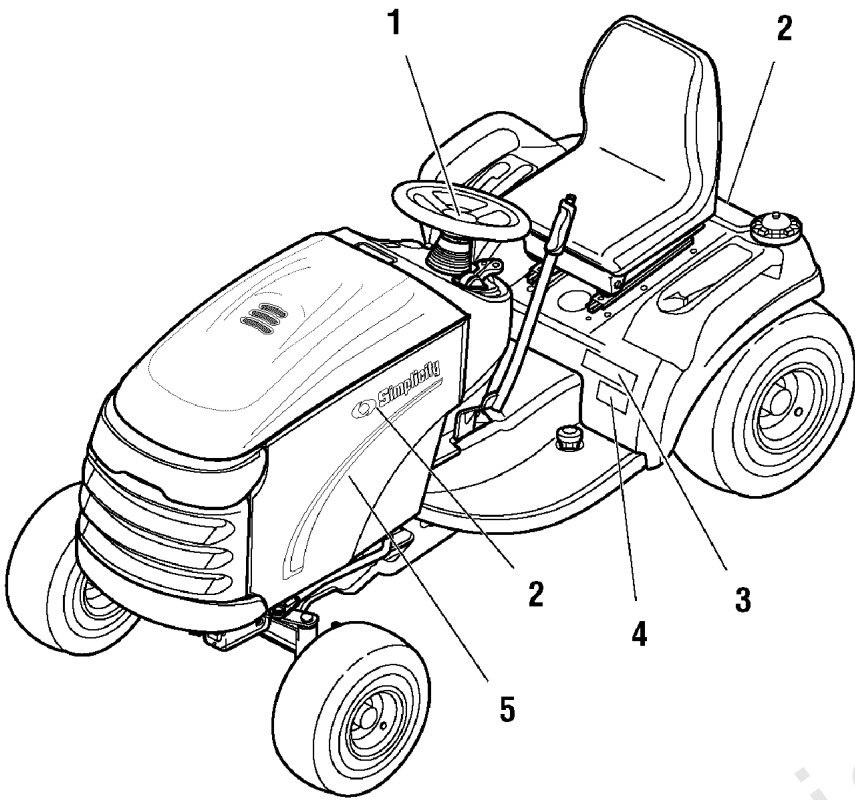
Controls Group - Cruise Control

REF NO	PART NO	QTY	DESCRIPTION
1	1722314SM	1	COVER, w/Cruise Icon
2	1960666SM	1	SCREW, Torque Head Plus Socket Head, 1/4-20 x 7/8
3	1722303SM	1	HANDLE, SHIFT
4	703232	1	NUT, 1/4-20, NYLOCK
5	1722003SM	1	LEVER ASMY-CRUIS
6	1960103SM	2	WASHER, 3/8"
7	1931333SM	1	BOLT, Carriage, 5/16-18 x 3/4
8	1924361SM	2	WASHER, 1/2
9	1709043SM	1	SPACER, w/Flange, 11/32 x 15/32 x 3/4
10	1931342SM	1	BOLT, Carriage, 5/16-18 x 2-3/4
11	1960273SM	1	BOLT, Carriage, 5/16-18 x 2-1/4
12	1722460SM	2	PIN, Quick
13	1722117SM	1	ROD, Cruise
14	1733719SM	1	ROD, Return
15	2159106SM	1	SPRING, Cruise Return to Frame
16	1960636SM	2	NUT, Hex KEPS, 5/16-18
17	1960001SM	2	CAPSCREW, Hex Washer Head Plastite, 10-14 x 5/8
18	1717050SM	1	SWITCH-PUSH BUTT
19	1722080SM	1	SPACER, 11/32 x 5/8 x 1-13/32
20	1919326SM	1	WASHER, 5/16
21	1919381SM	1	WASHER, 5/16, Black
22	1919438SM	1	NUT, Hex Lock ESNA Light, 5/16-18
23	1677746SM	1	SPRING, Compression
24	1918447SM	1	PIN, Cotter

Decals Group - Brand & Model

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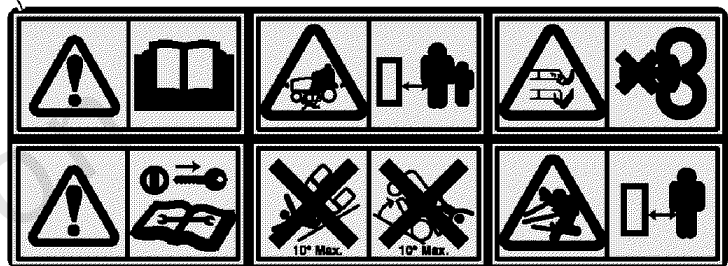
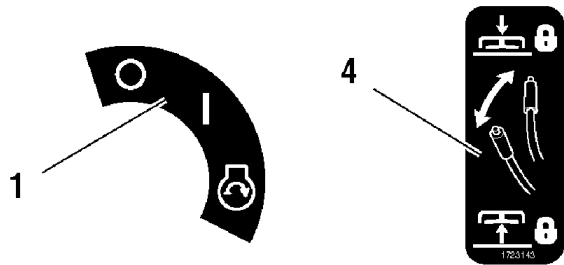
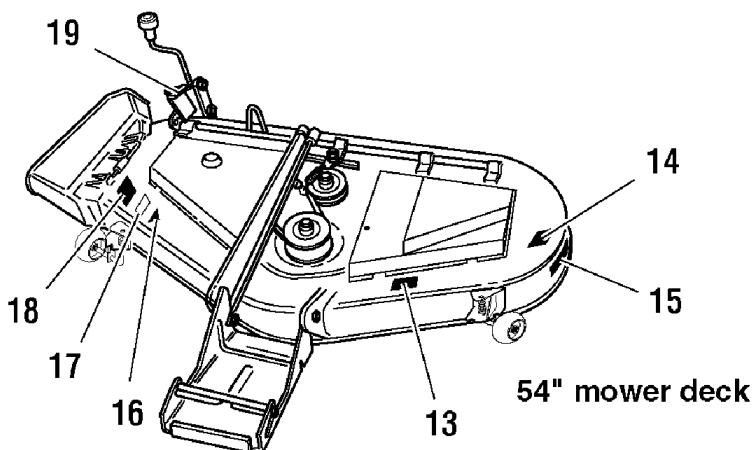
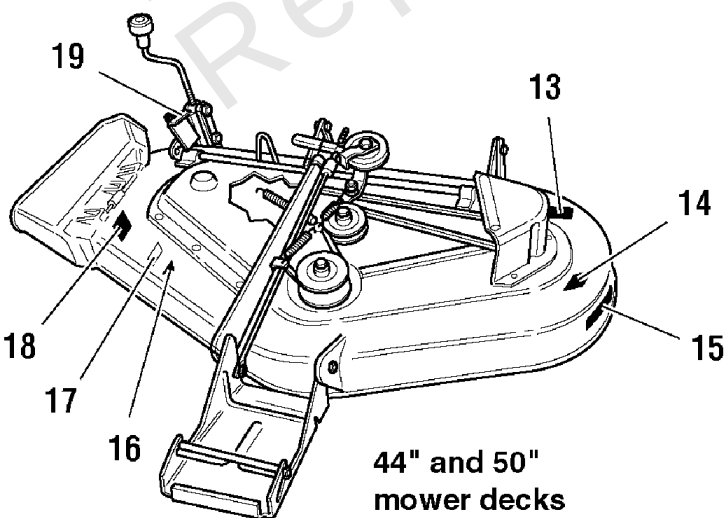
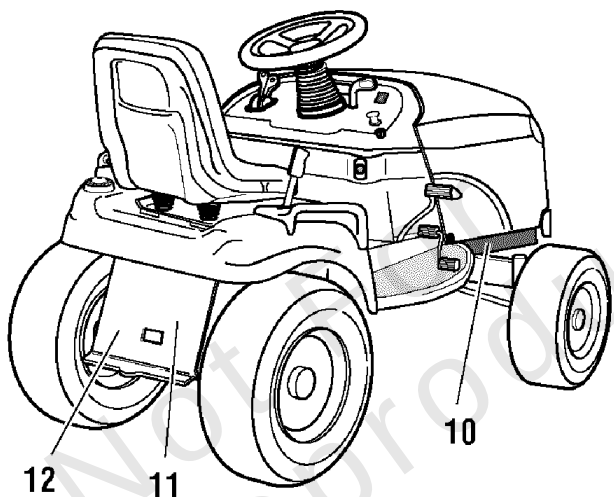
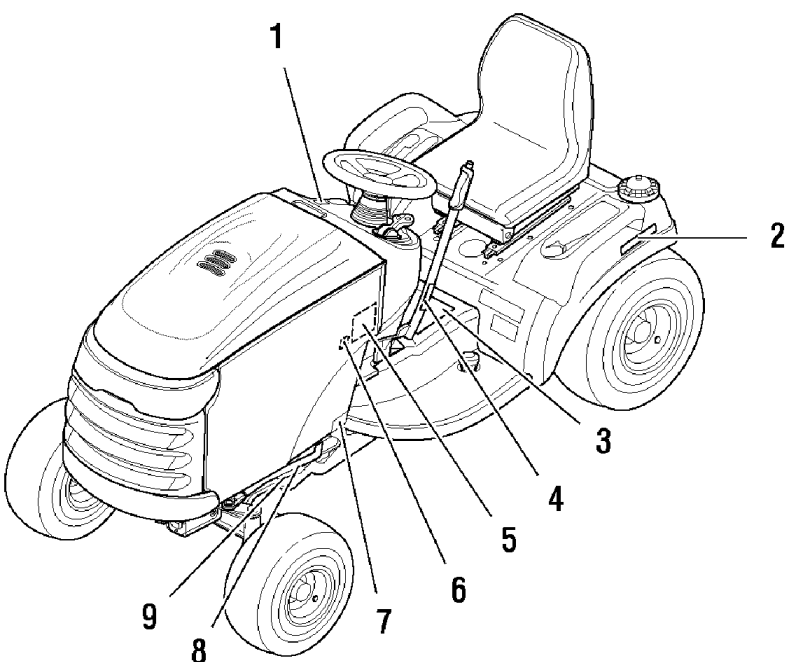
Decals Group - Brand & Model

REF NO	PART NO	QTY	DESCRIPTION
1	1717692	2	DECAL, ICON Simplicity, Orange
1	1731418	1	DECAL, ICON Simplicity, Orange
2	1722551	3	DECAL, Simplicity, Silver & Blue w/Icon
3	1722820	1	DECAL, Conquest, Silver & Blue
4	1722549	1	DECAL, 16HP, Silver On Clear
4	1722779	1	DECAL, 18HP, Silver On Clear
4	1722780	1	DECAL, 20HP, Silver On Clear
4	1730206	1	DECAL, 21HP, Silver On Clear
4	1722781	1	DECAL, 23HP, Silver On Clear
4	1731926	1	DECAL, 24HP, Silver On Clear
5	1722773	1	DECAL, Hood Stripe, RH, Simplicity, Blue & Silver
5	1722774	1	DECAL, Hood Stripe, LH, Simplicity, Blue & Silver
6	1708926	1	DECAL, AGCO, Logo Black, Chrome, Orange
7	1722795	2	DECAL, 1716, Gray, AGCO
7	1722796	2	DECAL, 1718, Gray, AGCO
7	1722797	2	DECAL, 1720, Gray, AGCO
7	1730209	1	DECAL, 1721, AGCO
8	1722817	1	DECAL, Hood Stripe, LH, AGCO
8	1722818	1	DECAL, Hood Stripe, RH, AGCO
9	1714363	1	DECAL, Massey Ferguson Logo, 3 Triangles
10	1752715	2	DECAL, 2700, Massey Ferguson
10	1752714	2	DECAL, 2700, 24-52, Massey Ferguson
10	1753986	2	DECAL, 2700, 26-52 PS, Massey Ferguson
10	1722802	2	DECAL, 2718, Black, Massey Ferguson
10	1722803	2	DECAL, 2720, Black, Massey Ferguson
10	1730207	2	DECAL, 2721, Massey Ferguson
10	1728113	2	DECAL, 2723, Massey Ferguson
10	1739495	2	DECAL, 2724, Massey Ferguson
10	1722801	2	DECAL, 2716, Black, Massey Ferguson
11	1722815	1	DECAL, Hood Stripe, LH, Massey Ferguson
11	1722816	1	DECAL, Hood Stripe, RH, Massey Ferguson
11	1727783	1	DECAL, Hood Stripe, LH, Massey Ferguson Baron
11	1727784	1	DECAL, Hood Stripe, RH, Massey Ferguson Baron
12	1716518	1	DECAL, Power Steering -(Power Steering Models Only)

Decals Group - Safety & Common

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MOWER BELTS & BLADES	
36" Mower	
Drive Belt	1710854
Mower Blade - Left	1704868
Mower Blade - Right	1704101
40" Mower	
Drive Belt	1801872
Deck Drive Belt	1807051
Mower Blade - Left	1704868
Mower Blade - Right	1704101
44" Mower	
Drive Belt	1801872
Deck Drive Belt	1807051
Mower Blade	1704868
50" Mower	
Drive Belt	1710854
Mower Blade - Left	1704868
Mower Blade - Right	1704101
54" Mower	
Drive Belt	1801872
Deck Drive Belt	1807051
Mower Blade - Left	1704868
Mower Blade - Right	1704101

For safety and reliability, insist on genuine Simplicity Manufacturing, Inc. belts and blades...our name stamped on the part is your assurance of quality.

TOUCH-UP PAINT PART NUMBERS	
13 Co. Spray Can Paint	1880111
Deep Orange	1880779
Solar Black	

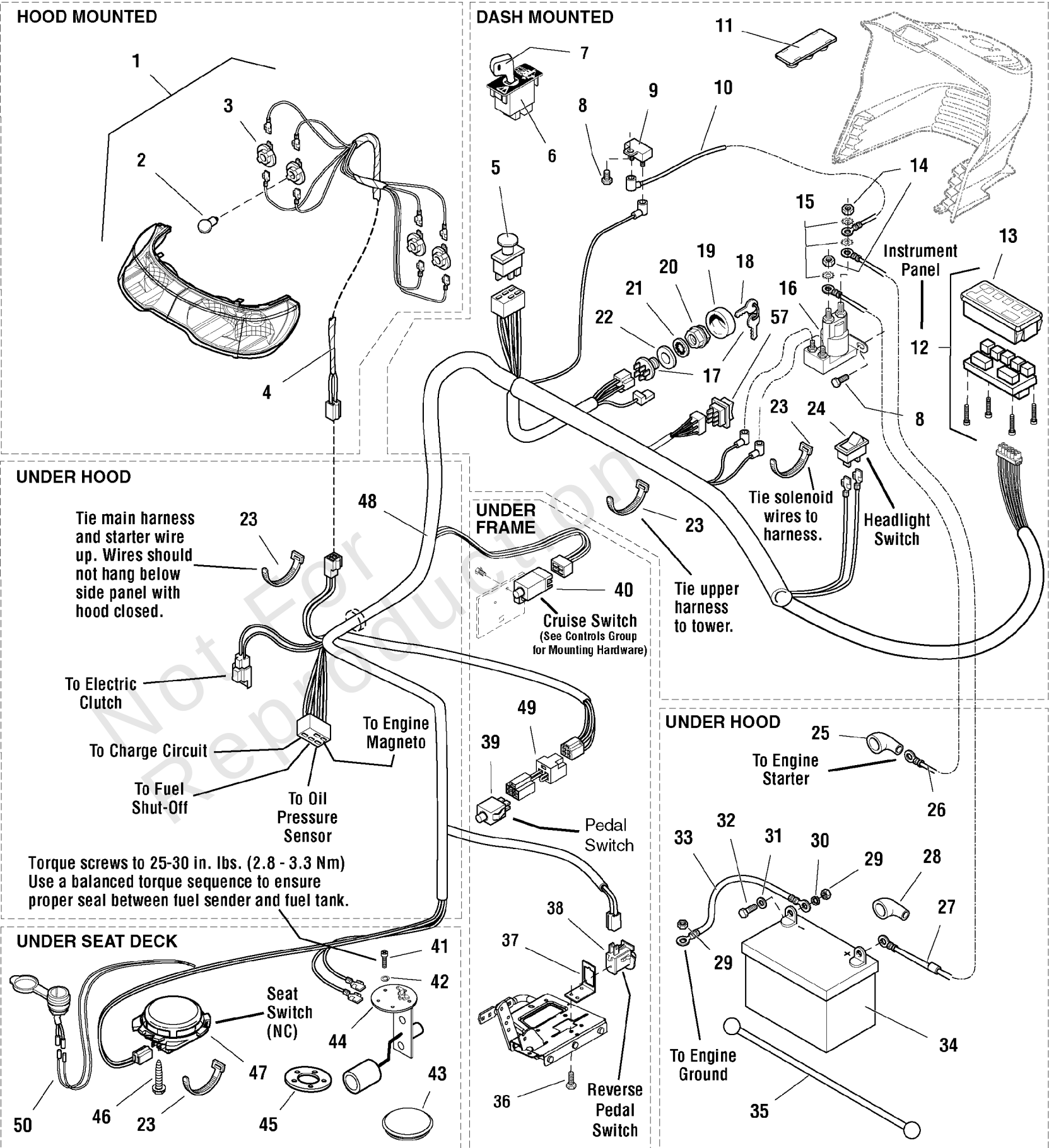


Decals Group - Safety & Common

REF NO	PART NO	QTY	DESCRIPTION
1	1722806	1	DECAL, Ignition Switch Symbols, White/Black
2	1718025	1	DECAL, Automatic Control Traction
3	1722814	1	DECAL, Tunnel Cover, Danger Slopes/Blades
3	1734027	1	DECAL, Tunnel Cover, Danger Slopes/Blades, (Export)
3	1726923	1	DECAL, Tunnel Cover
4	1723143	1	DECAL, Lift Lever Symbols
5	1725158	1	DECAL, Drive Belts, Mower Blades (38 Tooth Sprocket Mower)
5	1727014	1	DECAL, Drive Belts, Mower Blades
6	1720454V	1	DECAL, Touch Up Paint, Deep Orange
6	1725072	1	DECAL, Touch-Up Paint, Red
7	1723296	2	DECAL, Protective Sticker
8	-----	1	LABEL, Decibel, Power Massv
9	-----	1	DECAL, I.D. Plate
10	-----	1	DECAL, Patent
11	1708927	1	DECAL, USA Logo Stars & Stripe
12	1723160	1	DECAL, Transmission Release Valve
13	-----	1	DECAL, I.D. Plate
14	1704276	1	DECAL, Danger Do Not Put Hands/Feet in Mower
15	1722771	1	DECAL, Free Floating Mower, Silver
16	-----	1	DECAL, OPEI Certified
17	1722789	1	DECAL, 44", Silver on Black with Stripe
17	1722790	1	DECAL, 50", Silver on Black with Stripe
17	7103181	1	DECAL, 52" Deck
17	1722791	1	DECAL, 54", Silver on Black with Stripe
18	1704277	1	DECAL, Danger Do Not Operate without Deflector
19	1721197	1	DECAL, Height of Cut

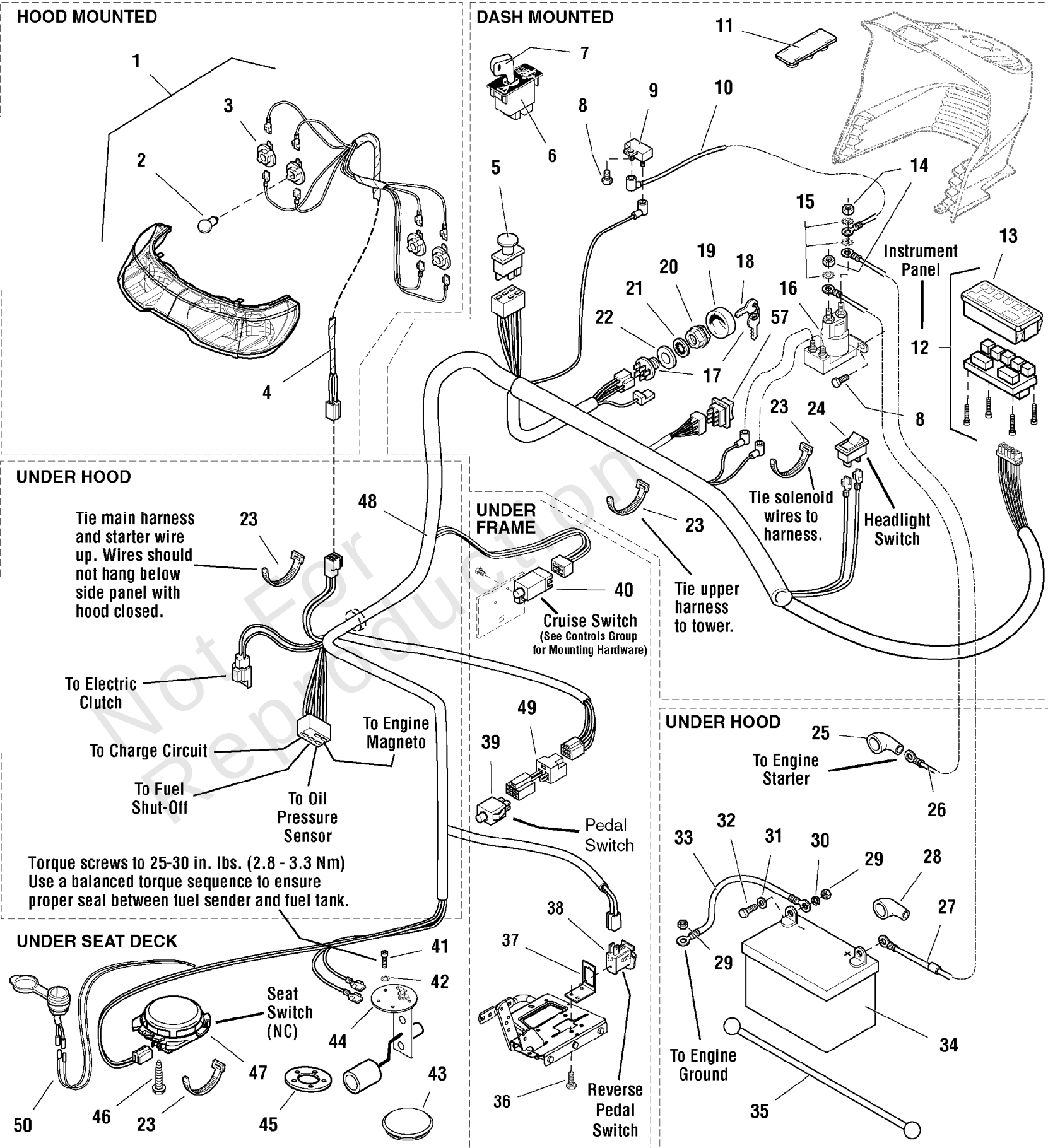
Footnotes:

Note:* Not a service part.



Electrical Group

REF NO	PART NO	QTY	DESCRIPTION
1	1721810SM	1	HEADLIGHT ASSEMBLY, 4 Bulb -(Includes Ref. Nos. 2 & 3)
2	1677371SM	4	BULB-HEADLIGHT 1
3	1723451SM	4	SOCKET ASSEMBLY, Headlight, Sealed
4	1722669SM	1	HARNESS, Headlight
5	1722887SM	1	SWITCH-PTO PUSH
6	1726556SM	1	SWITCH, RMO Module Only
7	1726557SM	1	KEY, RMO Module, Plastic
8	1925003SM	2	CAPSCREW, Hex Washer Head Taptite, 1/4-20 x 1/2, Black
9	1665238SM	1	BREAKER-CIRCUIT
10	1665237SM	1	WIRE, 12GA 5-15/16 Long, Red
11	1722611SM	1	PLUG-HOLE BLACK
12	1725074SM	1	PANEL, Instrument w/ Fuel Gage & Hour Meter -(Includes Ref. No. 13)
13	1724865SM	1	COVER, Instrument Panel
14	2820263SM	2	NUT, Hex, 5/16-24
14	2860750SM	2	NUT-HEX KEPS 5/16-24 -(CE/Export) (Used only on RMO/ACS Models)
15	2820426SM	3	LOCKWASHER, External Tooth, 5/16
16	1722739SM	1	SOLENOID
16	1728963SM	1	SOLENOID -(CE/Export) (Used only on RMO/ACS Models)
17	1686734SM	1	IGNITION SWITCH -(Includes Ref. Nos. 18, 19, 20, 21 & 22)
18	1717163SM	1	KEY-IGNITION INDAK
19	1717550SM	1	COVER, For Ignition Switch, Plastic
20	1717549SM	1	NUT, Hex Flange, 5/8-32, Ignition Switch
21	1960547SM	1	LOCKWASHER-INTERNAL
22	2101025SM	1	WASHER, Shim
23	1701011SM	3	TIE, Strap, 7-5/16 Long
23	2825094SM	4	TIE, Strap, 7-5/16 Long -(CE/Export) (Used only on RMO/ACS Models)
24	1716951SM	1	SWITCH, Headlights , 2 Terminal
25	1713535SM	1	BOOT, Insulator Cable Terminal, 1-15/16 Long, Red
26	1721830SM	1	CABLE, #6 x 25" Long, Ring Terminals
27	1603618SM	1	CABLE, #6 x 8" Long, Ring Terminals
28	1677296SM	1	BOOT,INSULATOR BATTER
29	2816622SM	3	NUT, Hex, 1/4-20
30	2816964SM	2	LOCKWASHER, 1/4
31	2821319SM	2	WASHER, 1/4
32	2823341SM	2	CAPSCREW, Hex Head, 1/4-20 x 3/4
33	1713163SM	1	CABLE, #6 x 26 Long, Ring Terminal
34	1685215SM	1	BATTERY,12V
35	1722009SM	1	STRAP, Battery, 14 Long, Rubber
36	1929000SM	2	CAPSCREW, Hex Head Taptite, 1/4-20 x 3/8
37	1726810ASM	1	BRACKET, Switch Mount
38	1732004SM	1	SWITCH-PUSH BUTTON
38	1704379SM	1	SWITCH, Reverse Pedal -(CE/Export) (Used only on RMO/ACS Models)
39	1732006SM	1	SWITCH, Push Button, Foot Pedal
40	1717050SM	1	SWITCH-PUSH BUTT -(Used on all models except CE/Export)
41	2860665SM	5	SCREW, Pan Head Torx, #10-32 x 1/2



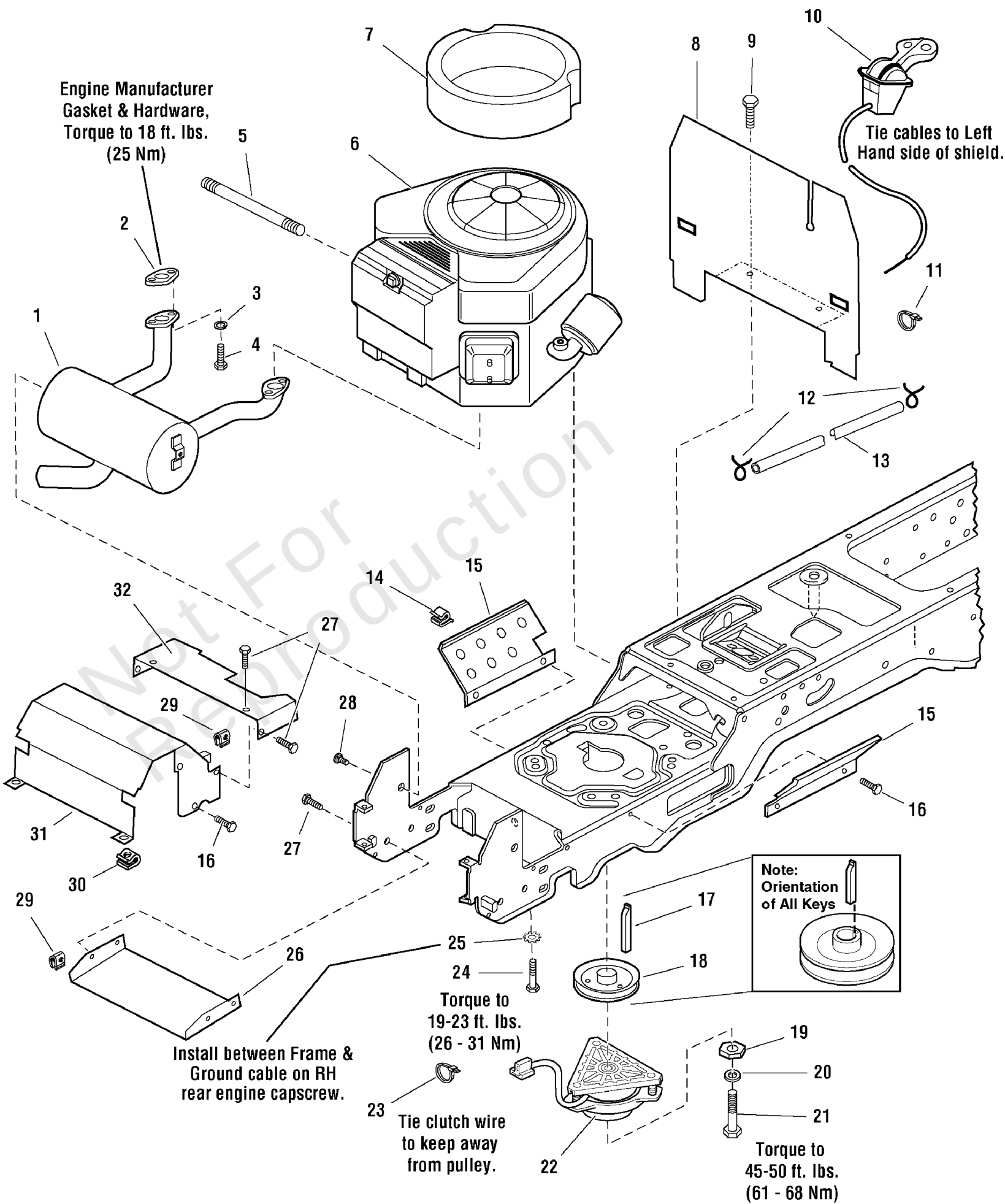
Electrical Group

REF NO	PART NO	QTY	DESCRIPTION
42	1917365SM	5	LOCKWASHER, 3/16 #10
43	1722309SM	1	PLUG, Hole 3", Round
44	1686921SM	1	SENDER, Fuel Tank -(Includes Ref. 45)
45	1685303SM	1	GASKET
46	1960536SM	2	SCREW, HEX WSHR HD PL
47	1716368SM	1	SWITCH-OP PRESEN
47	1718981SM	1	SWITCH, Seat, Grey, NC -(CE/Export) (Used only on RMO/ACS Models)
48	1730192SM	1	HARNESS, Wiring
48	1733220SM	1	HARNESS, Wiring -(CE/Export) (Used only on RMO/ACS Models)
48	1739708	1	HARNESS, Wiring -(Used on Electric Height of Cut Models)
49	1734025SM	1	WIRING ASSEMBLY, All Conditions Shutdown -(CE/Export) (Used only on RMO/ACS Models)
50	1725302SM	1	OUTLET, 12 Volt -(CE/Export) (Used only on RMO/ACS Models)
57	1716329SM	1	SWITCH, EHOC -(CE/Export) (Used only on EHOC Models)

Engine Group - 20HP, 22HP & 23HP Briggs & Stratton, Vanguard Twin

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690504



Engine Group - 20HP, 22HP & 23HP Briggs & Stratton, Vanguard Twin

REF NO	PART NO	QTY	DESCRIPTION
1	1736543SM	1	MUFFLER
1	1722625SM	1	MUFFLER -(Only used on 20HP Models)
2	-----	2	GASKET
3	1917356SM	4	LOCKWASHER, 5/16
4	2860660SM	4	CAPSCREW, Socket Head, 5/16-18 x 7/8, G8
5	1723165SM	1	HOSE, Oil Drain
6	358777-0110-E1	1	*ENGINE, 20HP Briggs & Stratton VANGUARD Twin -(Engine Model: 358777-0110-E1)
6	385777-0119-E1	1	*ENGINE, 21HP Briggs & Stratton VANGUARD Twin -(Engine Model: 385777-0119-E1)
6	386777-0111-E1	1	*ENGINE, 22HP Briggs & Stratton VANGUARD Twin -(Engine Model: 386777-0111-E1)
6	386777-0111-E1	1	*ENGINE, 23HP Briggs & Stratton VANGUARD Twin -(Engine Model: 386777-0111-E1)
7	1722949SM	1	SEAL, Circle
8	1722388ASM	1	BULKHEAD
9	1925003SM	2	CAPSCREW, Hex Head Taptite, 1/4-20 x 1/2
10	1727223SM	1	CONTROL, Throttle Double 39" Long w/Knobs -(Only used on 20HP Models)
10	1734506SM	1	CONTROL, Throttle Double
11	1701011SM	1	TIE
12	2860112SM	2	CLAMP, Hose Type E
13	1718678SM	1	HOSE, 59" Long
14	2834683SM	2	CLIP, Wire
15	1722392ASM	2	SHIELD
16	1927428SM	8	CAPSCREW, Hex Head Taptite, 1/4-20 x 3/8
17	1720463SM	1	KEY
18	1722288SM	1	PULLEY & HUB ASSEMBLY, 4-1/2 OD
19	1708264SM	1	WASHER, HEX, 0.453ID
20	1918199SM	1	LOCKWASHER, 7/16
21	1960648SM	1	CAPSCREW, Hex Head, 7/16-20 x 2-3/4
22	1686883SM	1	CLUTCH, Electric, OGURA
22	1720532SM	1	CLUTCH, Electric, Big Brake OGURA
23	2832747SM	1	TIE
24	704010	4	SCREW, HEX, 3/8-16
25	2820427SM	1	LOCKWASHER, External Tooth, 3/8
26	1722414ASM	1	SHIELD, Muffler Bottom
27	1960295SM	8	CAPSCREW, Hex Head Flange Lock, 1/4-20 x 5/8
28	1924856SM	2	CAPSCREW, Hex Head Taptite, 5/16-18 x 1/2
29	1960368SM	8	NUT, Speed, 1/4-20
30	1935255SM	2	NUT, SPEED, 5/16-18 L
31	1722389ASM	1	DUCT-MUFFLER TOP-BLAC
32	1722390ASM	1	DUCT-MUFFLER EXT-BLAC

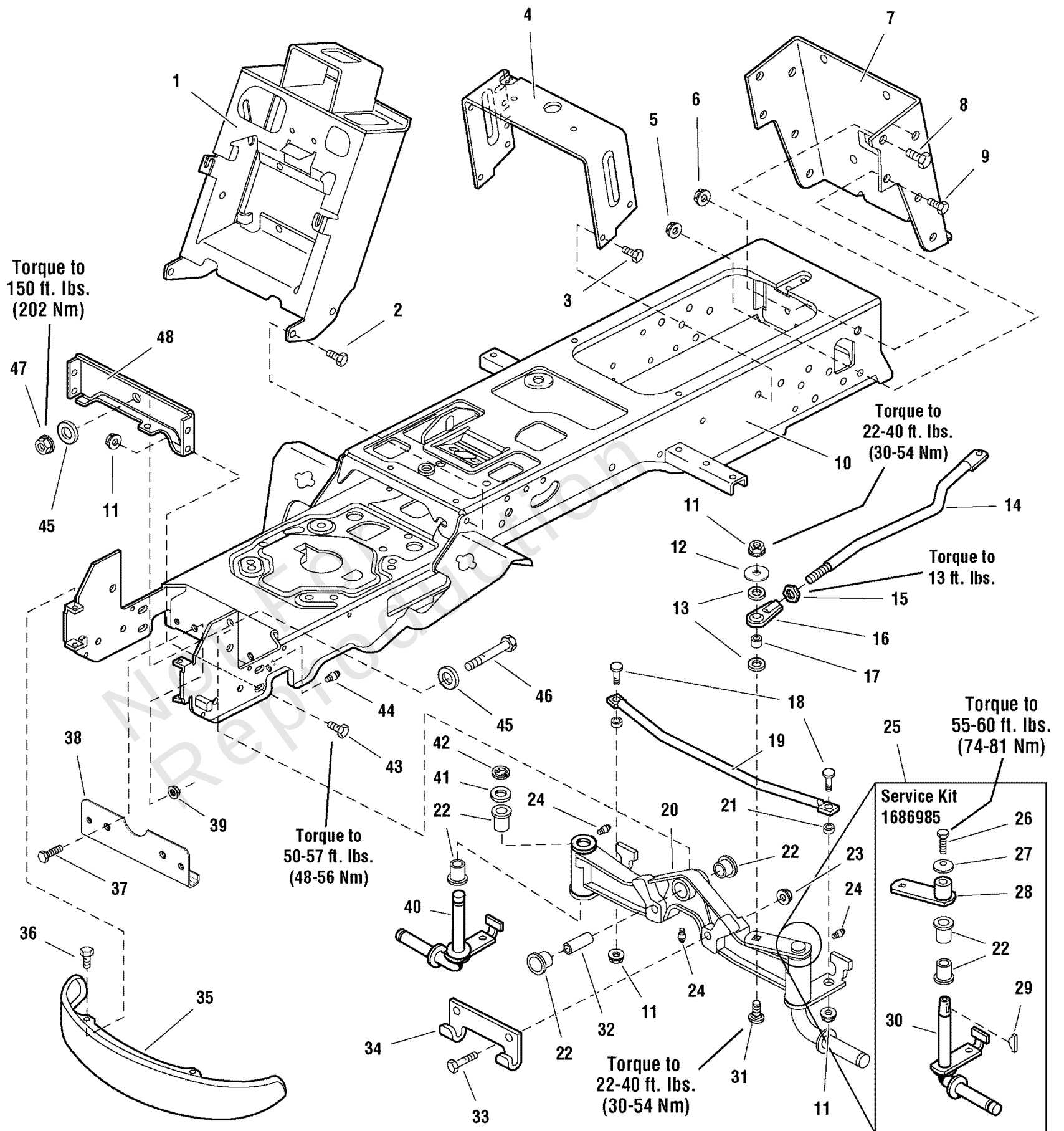
Footnotes:

Note:* See your local Briggs & Stratton distributor for parts and service.

Frame Group - Manual Steering

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690504



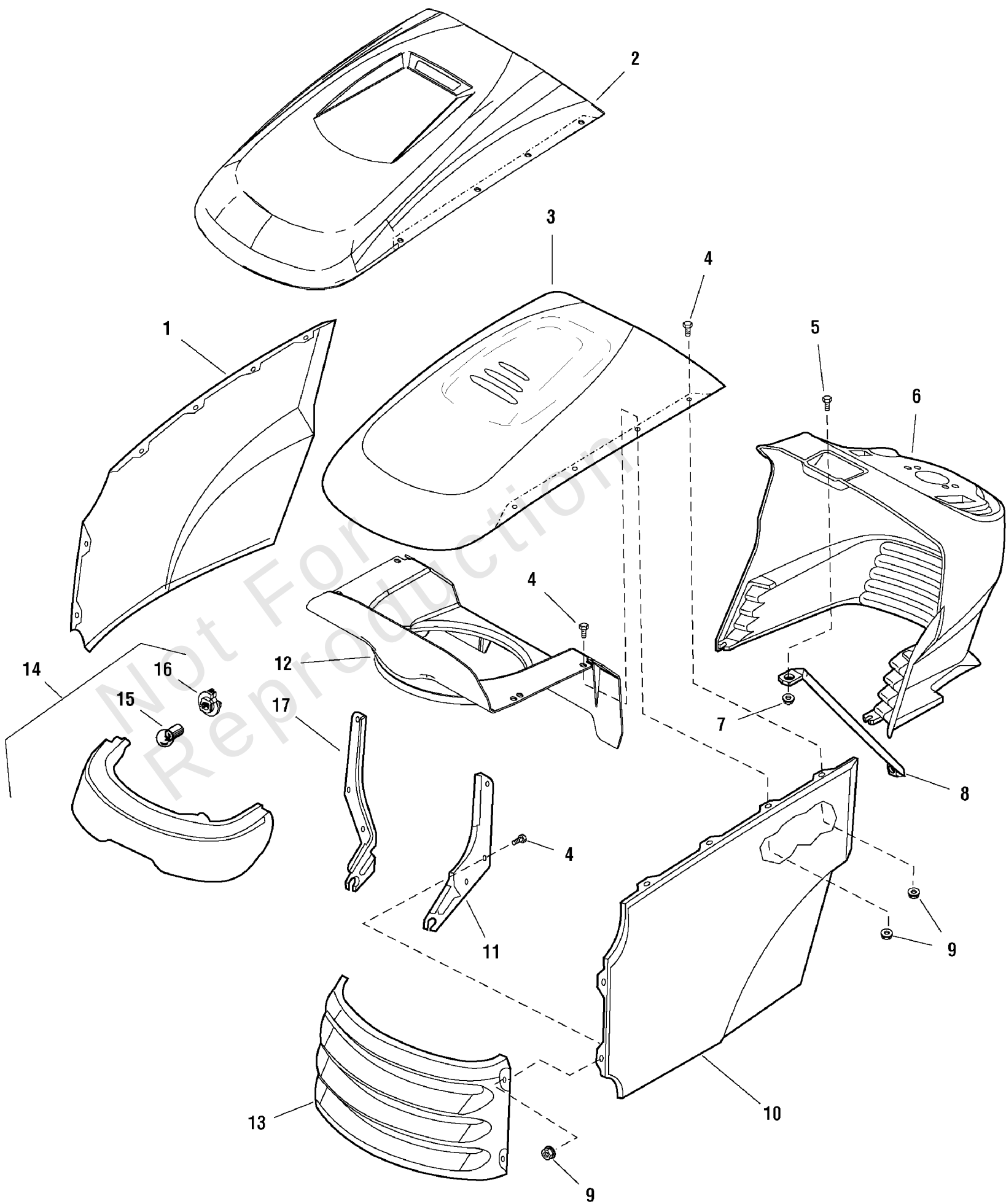
Frame Group - Manual Steering

REF NO	PART NO	QTY	DESCRIPTION
1	1733139ASM	1	TOWER & SUPPORT ASSEMBLY
2	1923683SM	4	CAPSCREW, Hex Washer Head, Taptite, 3/8-16 x 3/4
3	1664847SM	4	SCREW, Taptite, 5/16-18 x 3/4
4	1752878AYP	1	SUPPORT, Seat Deck
5	1928352SM	2	NUT, Hex Flange Whiz Lock, 3/8-16 Large
6	1930644SM	2	NUT-HEX FLANGE 1/2-1
7	1722602ASM	1	BACKPLATE, Hitch
8	1923114SM	2	CAPSCREW, Hex Head 1/2-13 x 1, Black
9	1921210SM	2	CAPSCREW, Hex Head, 3/8-16 x 1, G5
10	1733765ASM	1	FRAME ASMY-FRONT & RE
11	1930645SM	7	NUT, Hex Flange, Two Way Lock, 3/8-16
12	1922755SM	1	WASHER, Flat, 13/32
13	1960103SM	2	WASHER, 3/8"
14	1722541SM	1	LINK, Drag
15	1919262SM	1	NUT, Hex Head, 1/2-20, Black
16	1702779SM	1	JOINT-BALL .500-20 TH
17	1708236SM	1	SPACER, 0.377 x 1/2 x 5/8"
18	1931350SM	2	BOLT, RD HD SH SQ NK
19	1722626ASM	1	ROD, Tie
20	1722200ASM	1	AXLE ASSEMBLY, w/ LH Spindle, Complete (Includes Ref. Nos. 22, 24, 41, 42 & 43) -(Includes Ref. Nos. 22, 24, 41, 42 & 43)
21	1611705SM	2	SPACER-0.385IDX0
22	1721682SM	6	BUSHING, 31/32 x 1-1/4 x 3/4, Powder Metal
23	1930650SM	2	NUT-HEX FLANGE 7/16-1
24	2821133SM	3	FITTING, Grease
25	1686985SM	1	SPINDLE REPLACEMENT K -(Includes Ref. Nos. 22, 26, 27, 28, 29 & 30)
26	2823485SM	1	CAPSCREW, Hex Hd., 3/8-16 x 7/8, Gr. 8
27	1663151SM	1	WASHER, Spring, 3/8
28	1725112ASM	1	HUB & ARM ASSEMBLY
29	2830671SM	1	KEY, Hi-Pro, 1/4 x 3/4
30	1724264SM	1	SPINDLE, LH
31	1931352SM	1	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2
32	1721752SM	1	SPACER, 0.641ID x 0.978OD x 2.082LG
33	1927531SM	2	CAPSCREW-HEX HD 7/16-
34	1721918ASM	1	HOOK, Mower, Hitch
35	1721805ASM	1	BUMPER, Black, Steel, Standard
35	1919394SM	1	WASHER, 1, (As Required for All Front, As Required for K62 Rear)
36	1960086SM	4	SCREW, TRUSS HD TORX
37	1933260SM	2	SCREW, Hex Flange Whiz Lock, 3/8-16 x 3/4
38	2821133SM	1	FITTING, Grease
39	1960035SM	2	WASHER-0.625(0.64IDX1
40	1722199SM	1	SPINDLE ASSEMBLY, RH
41	1919394SM	1	WASHER, 1, (As Required for All Front, As Required for K62 Rear)
42	2832577SM	1	RING, Retainer
43	1933260SM	4	SCREW, Hex Flange Whiz Lock, 3/8-16 x 3/4
44	2821133SM	2	FITTING, Grease
45	1960035SM	2	WASHER-0.625(0.64IDX1
46	2860645SM	1	CAPSCREW, Hex Head, 5/8-11 x 3-1/2, GR5
47	2860646SM	1	NUT, Hex Flange, 5/8-11
48	1722212ASM	1	PLATE-AXLE SUPPORT-BL

Hood, Grille & Dash Group

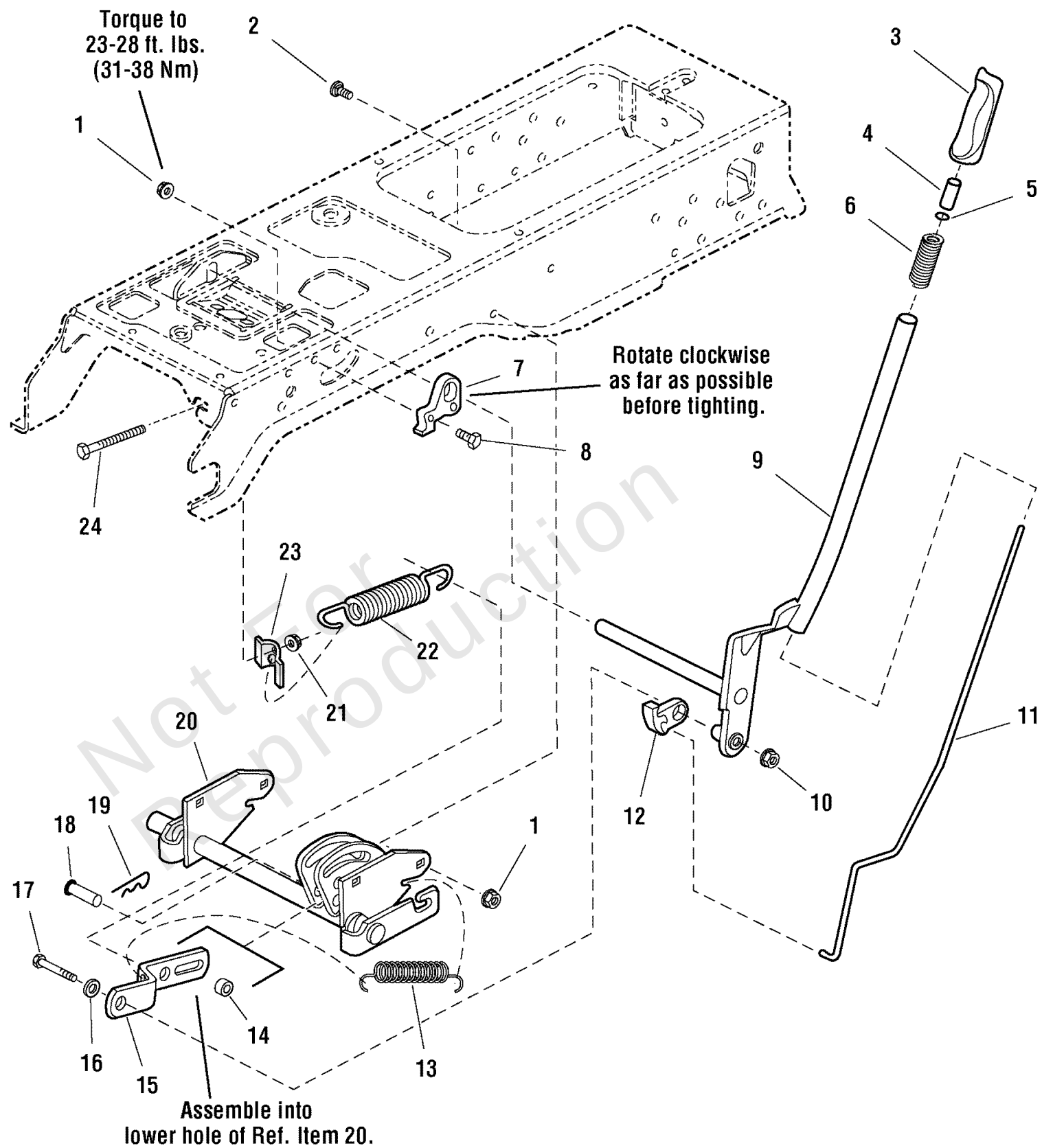
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690504



Hood, Grille & Dash Group

REF NO	PART NO	QTY	DESCRIPTION
1	1721804C	1	PANEL, RH Side, Orange
1	1721804D	1	PANEL, RH Side, Red
2	1728031D	1	HOOD, with Scoop, Red
3	1722110C	1	HOOD, with Louvers, Orange
3	1722110D	1	HOOD, with Louvers, Red
4	1960295	12	CAPSCREW, Hex Head Flange Lock,1/4-20 x 5/8
5	1960392	1	SCREW, Phillips Head, #10-24 x 1/2
6	1687054	1	DASHBOARD, RMO, Black
6	1687055	1	DASHBOARD, RMO with Hydra Lift Slot, Black
7	1933896	1	NUT, Hex Nylock,#10-24
8	1723123	1	ROD, Dash Support
9	1930641	12	NUT, Hex Flange Lock, 1/4-20
10	1721803C	1	PANEL, LH Side, Orange
10	1721803D	1	PANEL, LH Side, Red
11	1721808A	1	HINGE, LH
12	7102326	1	DUCT, Air Inlet
13	1721802C	1	GRILLE, Orange
13	1721802D	1	GRILLE, Red
14	1721810	1	HEADLIGHT ASSEMBLY -(Includes Ref. Nos. 15 & 16)
15	1677371	4	BULB, Headlight
16	1723451	4	SOCKET, Headlight
17	1721809A	1	HINGE, RH



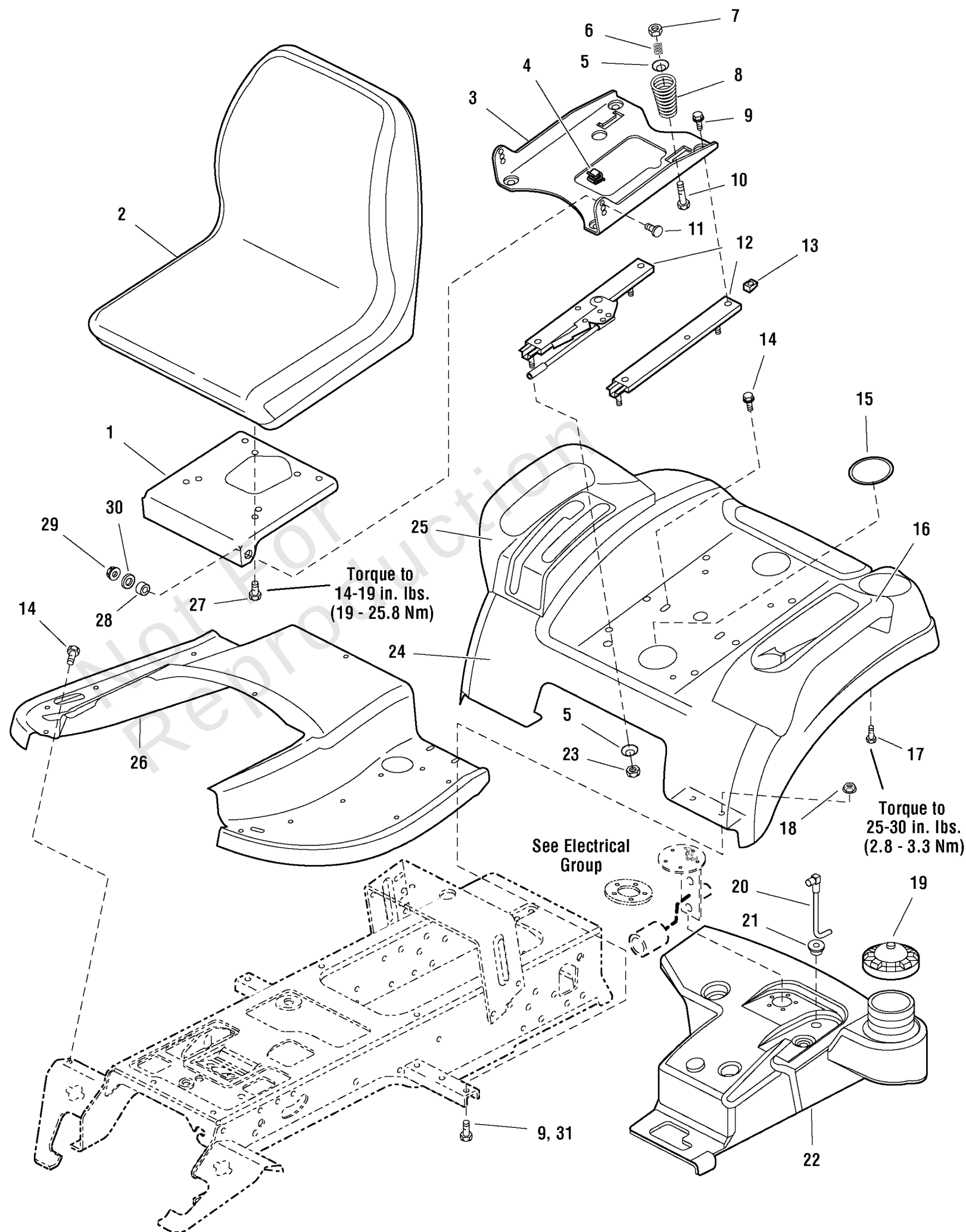
Lift Group - Manual

REF NO	PART NO	QTY	DESCRIPTION
1	1927557	2	NUT, Hex Whiz Lock Flange, 5/16-18, Large, Black
2	1931333	4	BOLT, Carriage, 5/16-18 x 3/4
3	1722291	1	GRIP, Lift Lever
4	1723124	1	BUTTON, Red Nylon, for 1/4 Rod
5	1960674	1	NUT, Push
6	1723321	1	SPRING, Compression, Lift Lever
7	1721581	1	QUADRANT, Lift, Powdered Metal
8	1926149	2	CAPSCREW, Hex Head, 5/16-18 x 1, G8, Black
9	1721712A	1	LEVER ASSEMBLY, Lift
10	1960636	5	NUT, Hex KEPS, 5/16-18
11	1722482	1	ROD, Latch
12	1722112	1	LOCK, Lift, Powdered Metal
13	2156302	1	SPRING
14	1723163	1	SPACER, 1/2 x 3/4 x 23/32
15	1723795A	1	BAR, Lift, 9-7/8 Long
16	1919381	1	WASHER, 5/16, Black
17	1921160	1	CAPSCREW, Hex Head, 5/16-18 x 2-1/4
18	1722819	1	PIN, Flat Head Drilled, 1/2 x 2-1/8 Long
19	1960033	1	CLIP, Hair Pin, 2-9/16 Long
20	1727436A	1	SHAFT ASSEMBLY, Lift
21	1935255	1	NUT, Speed, Lug Type, 5/16-18
22	1675232	1	SPRING, Compression
23	1723499	1	RETAINER, Spring Flat
24	1722357	1	CAPSCREW, Hex Washer Head, 5/16-18 x 4-1/2

Seat & Seat Deck Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690504



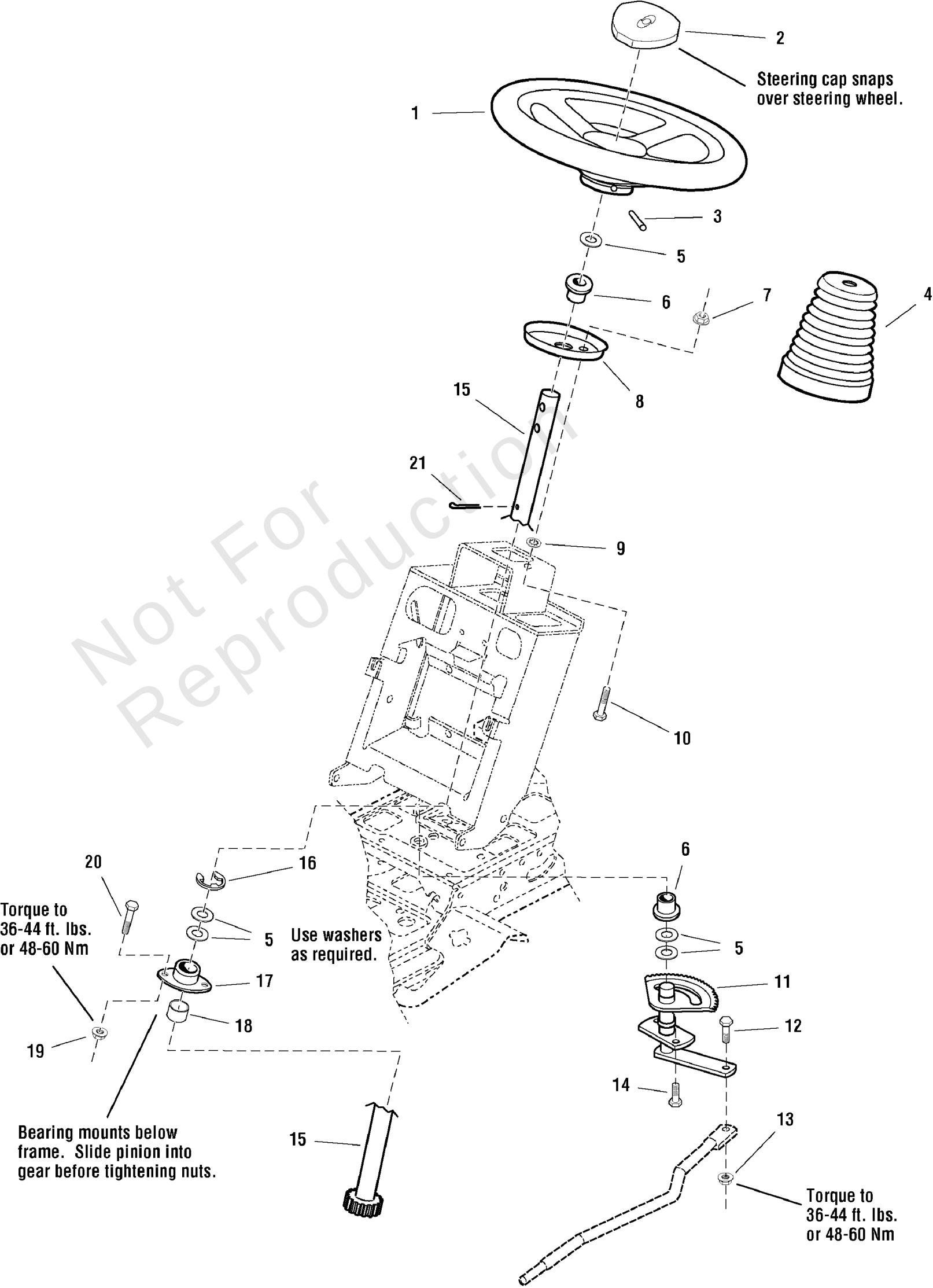
Seat & Seat Deck Group

REF NO	PART NO	QTY	DESCRIPTION
1	1722129ASM	1	BRACKET, 1-5/8 x 1-3/4
2	1687199SM	1	SEAT, 18" Back
3	1722128ASM	1	SUPPORT, Seat
4	2172434SM	1	CLIP- WIRE DIA .390
5	1709256SM	2	WASHER, Spring, 5/16 x 1 1/4
6	1714263SM	2	SPRING, Compression
7	1919438SM	10	NUT, Hex Lock, ESNA Light, 5/16-18
8	1717051SM	2	SPRING, Compression
9	1930591SM	8	CAPSCREW, Hex Flange Whiz Lock, 5/16-18 x 3/4
10	1931339SM	2	BOLT, Carriage, 5/16-18 x 2
11	1931350SM	2	BOLT, RD HD SH SQ NK
12	1722356SM	1	SLIDE, Seat
13	1935255SM	4	NUT, SPEED, 5/16-18 L
14	1930601SM	4	CAPSCREW, Hex Washer Head Taptite, 5/16-18 x 5/8
15	1722309SM	2	PLUG, Plastic
16	1729711SM	1	POD, with Cup Holder, LH
17	2860664SM	8	SCREW, HEX SEMS WSHR,
18	1931277SM	4	NUT, Hex Flange Whiz Lock, 5/16-18
19	1715917SM	1	CAP, Gas
20	1722340SM	1	TUBE & ELBOW ASSEMBLY
21	1654930SM	1	BUSHING, 3/8 x 9/16 x 5/8, Rubber
22	1722432SM	1	TANK, Fuel
23	1960636SM	8	NUT, Hex KEPS, 5/16-18
24	1722106CSM	1	DECK, Seat, Orange
24	1722106DSM	1	DECK, Seat, Red
25	1722108SM	1	POD, RH with 2 Slots
26	1722105CSM	1	TUNNEL, Orange
26	1722105DSM	1	TUNNEL, Red
27	1960667SM	4	SCREW-HEX WZ LOCK FLN
28	1663752SM	2	SPACER, 25/64 x 5/8 x 3/16
29	1930645SM	2	NUT, Hex Flange Two-Way Lock, 3/8-16
30	1924940SM	2	WASHER, 3/8
31	1930595SM	4	CAPSCREW, Taptite 5/16-18 x 1-1/4

Steering Group - Manual Steering

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690504



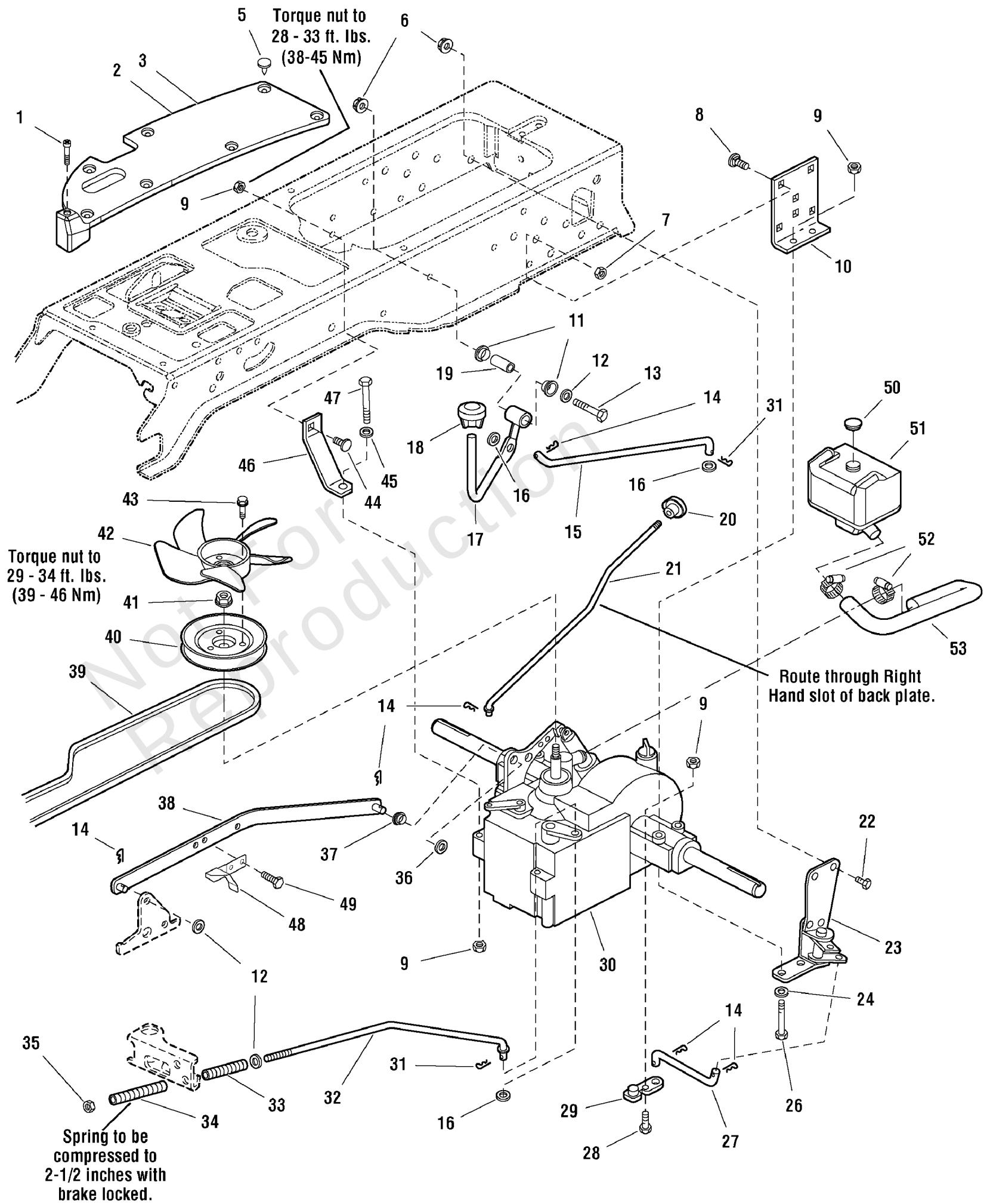
Steering Group - Manual Steering

REF NO	PART NO	QTY	DESCRIPTION
1	1722318	1	STEERING WHEEL, Straight, Shaft
2	1722319	1	CAP, Steering Wheel, Simplicity -(Decal Not Included)
2	1725024	1	CAP, Steering Wheel, Plain
3	1960540	1	PIN, Spring, 5/16 x 2-1/2
4	1722749	1	COVER, Rubber, Upper Steering Shaft
5	1960114	5	WASHER, 3/4
6	2176440	2	BUSHING, 15/32 x 7/8 x 7/8, Nylon
7	1960636	2	NUT, Hex KEPS 5/6-18
8	1721736A	1	PLATE, Mounting Steering
9	1933988	2	NUT, Push
10	1960655	2	CARRIAGE BOLT, 5/16-18 x 1-1/4
11	1724470A	1	GEAR & SHAFT ASSEMBLY, Steering
12	1960032	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/4, Black
13	1930645	1	NUT, Hex Flange Two-Way Lock, 3/8-16
14	1664847SM	2	CAPSCREW, Hex Washer Head Taptite, 5/16-18 x 3/4
15	1721626	1	SHAFT & PINION ASSEMBLY, Steering Manual
16	1611710	1	RING, Clipping Extension
17	1722459	1	BEARING, 3/4 x 1-11/16 x 13/16, 3" Long Housing
18	1722461	1	SPACER, 3/4 x 1-1/16 x 3/8, Powder Metal
19	1931211	2	NUT, Hex Flange Whiz Lock, 3/8-16, Small
20	1933260	2	CAPSCREW, Hex Flange Whiz Lock, 3/8-16 x 3/4
21	1960033	1	CLIP, Hairpin

Transmission Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690504



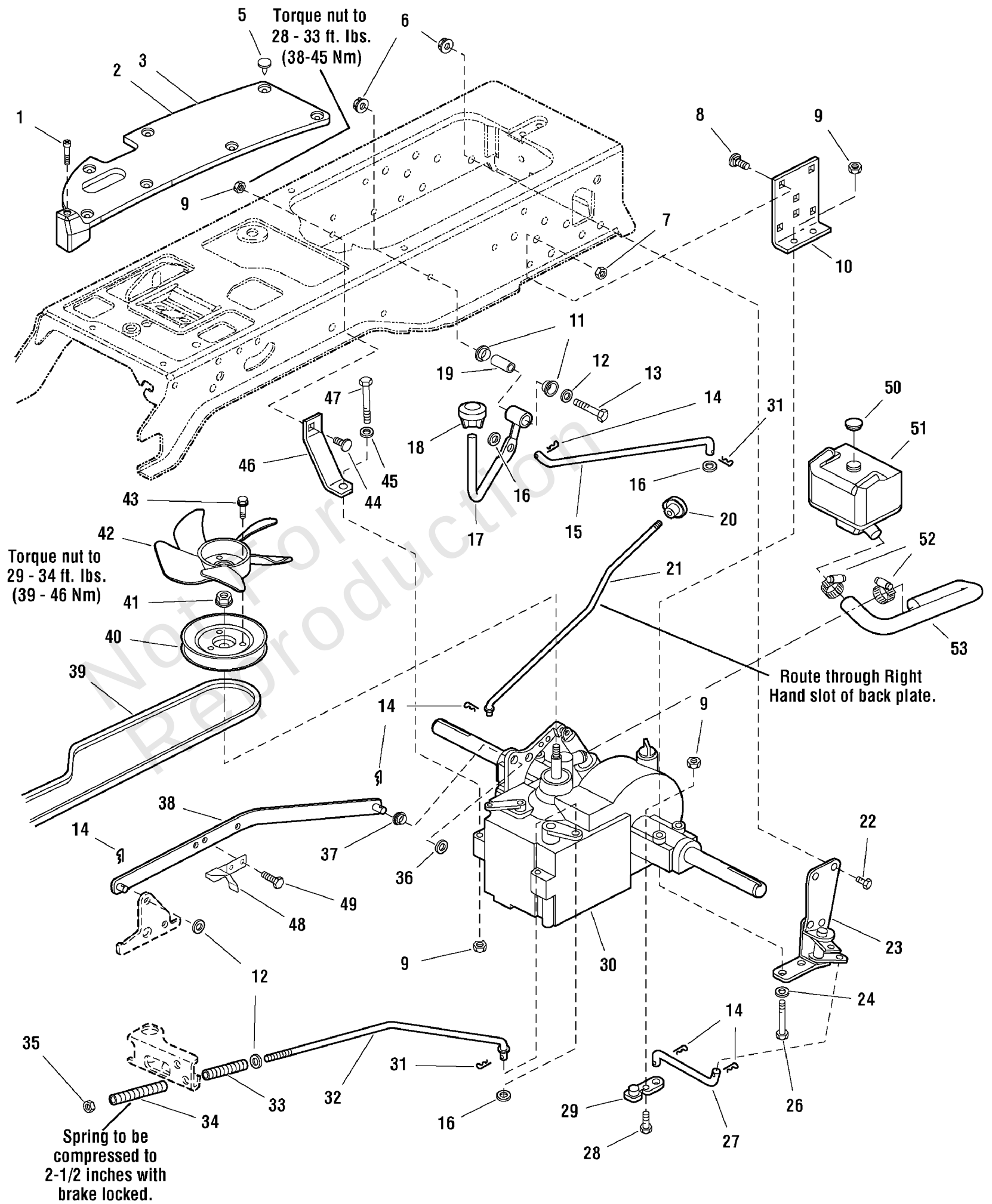
Transmission Group

REF NO	PART NO	QTY	DESCRIPTION
1	1960676	2	SCREW, Pan Head Torx Taptite, 1/4-20 x 1-1/4
2	1722174	1	PAD, Footrest, LH, Differential Lock
3	1722173	1	PAD, Footrest, RH
5	1704351	15	FASTENER, 11/16" Long, Stem Plastic
6	1928352	2	NUT, Hex Flange Whiz Lock, 3/8-16, Large
7	1960637	6	NUT, Hex KEPS, 3/8-16
8	1931350	6	CARRIAGE BOLT, 3/8-16 x 1
9	1960686	7	NUT, Hex Flange ESNA, 5/16-18
10	1721728A	2	SUPPORT
11	1676148	2	BUSHING, 5/8 x 3/4 x 13/32, Powder Metal
12	1924940	3	WASHER, 3/8
13	1922130	1	CAPSCREW, Hex Head, 3/8-16 x 2-1/4
14	1722460	6	PIN, Quick
15	1722151	1	ROD, Differential Lock, 15-3/16 Long
16	1918267	3	WASHER, 7/16
17	1721360	1	ROD & TUBE ASSEMBLY, Differential Lock Pedal
18	1716289	1	KNOB
19	1669105	1	SPACER, 25/64 x 5/8 x 1-1/2, Hardened
20	1723126	1	KNOB, 3 Sided Soft
21	1721622	1	ROD, Free Wheel, 18-3/16 Long
22	1921210	1	CAPSCREW, Hex Head, 3/8-16 x 1, Black
23	1722903	1	PIVOT ASSEMBLY, Differential Lock
24	1919326	2	WASHER, 5/16, Black
26	1960590	4	CAPSCREW, Hex Head, 5/16-18 x 3
27	1722152	1	ROD, Differential Latch, 2 Bends, 6-3/16 Long
28	1921333	1	CAPSCREW, Hex Head, 5/16-18 x 1
29	1722383	1	ARM, Differential Lock
30	1721952	1	TRANSMISSION ASSEMBLY, K66L Transmission -(Used on models with transmission expansion tank, attached or mounted to transmission.)
30	1733941	1	TRANSMISSION ASSEMBLY, K66L Transmission -(Used on models with transmission expansion tank, attached or mounted to transmission.)
30	1733208	1	TRANSMISSION ASSEMBLY, K66AC Transmission -(Used on models with remote expansion tank Ref. No. 51)
31	1918447	1	PIN, Cotter, 3/4, Black
32	1721424	1	ROD, Brake, 17-27/64 Long
33	1722684	1	SPRING, Compression
34	8191045	1	SPRING, Compression
35	1960687	2	NUT, Hex Flange ESNA, 3/8-16
36	80003590	1	WASHER, .516IDX.875ODX.06,FLAT,ZC/CL
37	1722648	1	BEARING, Nyliner
38	1726757	1	ARM & WELD PINS ASSEMBLY, Control K66
39	1721392	1	V-BELT
40	1722194	1	PULLEY & HUB ASSEMBLY, Transmission
41	1719968	1	NUT, Hex Flange, M10-1.5, Nylon Insert
42	1719233	1	FAN, 5 Blades, 3 Holes
43	1933958	3	CAPSCREW, Hex Washer Head Taptite, 1/4-20 x 1-1/8
44	1931335	1	BOLT, Carriage, Short Neck, 5/16-18 x 1
45	1960141	1	WASHER, 5/16
46	1721593A	1	STRAP, 4-1/4 Long
47	1921719	1	CAPSCREW, Hex Head, 5/16-18 x 2-1/2
48	1727215A	1	ACTUATOR, Switch

Transmission Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690504



Transmission Group

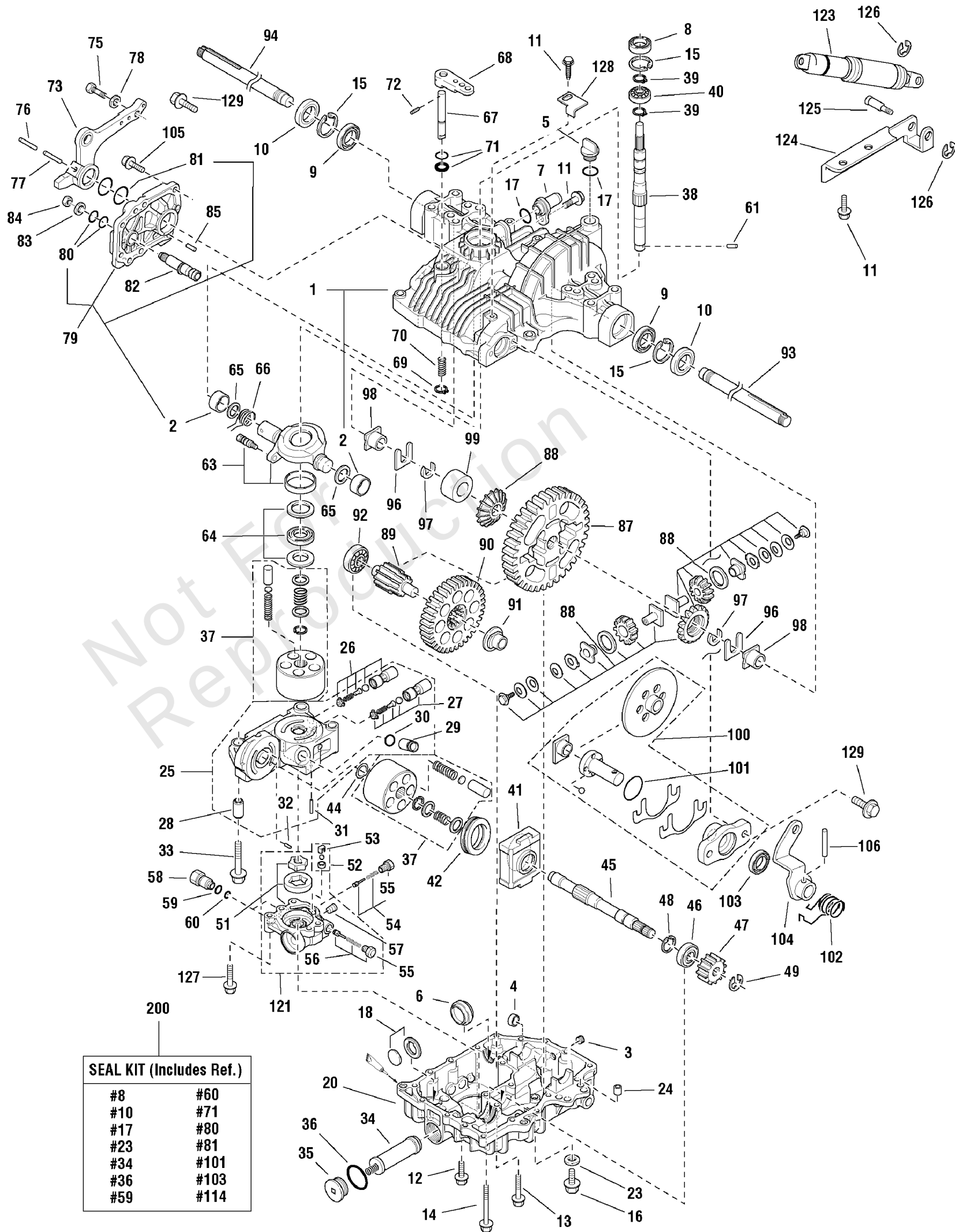
REF NO	PART NO	QTY	DESCRIPTION
49	1924856	2	CAPSCREW, Hex Head Taptite, 5/16-18 x 1/2
50	1722711	1	CAP, Expansion Tank Plastic -(Used on models with tranmission expansion tank.)
51	1722430	1	TANK, Oil Natural -(Used on models with tranmission expansion tank.)
52	1723214	2	CLAMP, Hose Worm Drive #20 1-3/4" -(Used on models with tranmission expansion tank.)
53	1722468	1	HOSE, Expansion Tank Formed -(Used on models with tranmission expansion tank.)

Not For Reproduction

Transmission SERVICE PARTS - Tuff Torq K71E without Diff Lock (1721404)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690504



Transmission SERVICE PARTS - Tuff Torq K71E without Diff Lock (1721404)

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	*UPPER HOUSING, Complete
2	1720757SM	2	BEARING, 28 x 15
3	1720758SM	1	TAPER PLUG, 1/8
4	1720759SM	1	BORE PLUG, 17
5	1720760SM	1	CAP, Oil, 20
6	1720761SM	1	FILTER
7	1720762SM	1	FITTING
8	1720782SM	1	SEAL
9	1720783SM	2	BEARING
10	1720784SM	2	SEAL
11	1720785SM	2	SCREW, Tapping, 8 x 25
12	1707789SM	18	SCREW, Tapping, 8 x 30
13	-----	1	*SCREW, Tapping, 8 x 45
14	1718226SM	2	BOLT, 8 x 75
15	1720787SM	3	RING, 47
16	1720788SM	2	BOLT, 10 x 12
17	1707786SM	2	PACKING, P18
18	1718065SM	1	MAGNET, Complete
20	1723765SM	1	LOWER HOUSING, Complete
23	1720796SM	1	WASHER, Seal 10
24	1720797SM	2	PIPE, 13 x 11.3
25	-----	1	*CENTER CASE, Complete
26	-----	1	*VALVE, (A-1 SET)
27	-----	2	*VALVE, (A-2 SET)
28	1720801SM	2	KNOCK PIN, 15.5 x 30
29	1720802SM	1	PLUG, 16 x 25
30	1720803SM	1	PACKING
31	-----	2	*PIN, 8 x 14
32	1718070SM	1	PIN, 3 x 9.8
33	1720805SM	3	BOLT, 10 x 75
34	1719832SM	1	FILTER
35	1720807SM	1	CAP, (M40)
36	1720808SM	1	PACKING
37	-----	2	*CYLINDER BLOCK, Complete
38	1723782SM	1	PUMP SHAFT
39	1720811SM	2	RING, 17
40	1720812SM	1	BEARING, 6303
41	-----	1	*HOUSING
42	-----	1	*BEARING, 51207
44	1720817SM	1	WASHER, 18 x 31 x 1
45	-----	1	*SHAFT MOTOR
46	1720819SM	1	BEARING 6004 SH2 U
47	-----	1	*MOTOR GEAR
48	-----	1	*RING, Snap, 20
49	1718076SM	1	RING, E15
51	-----	1	*PUMP CASE, Complete
52	-----	1	*3RD CHECK, Complete
53	-----	1	*HOLDER, (Seat)

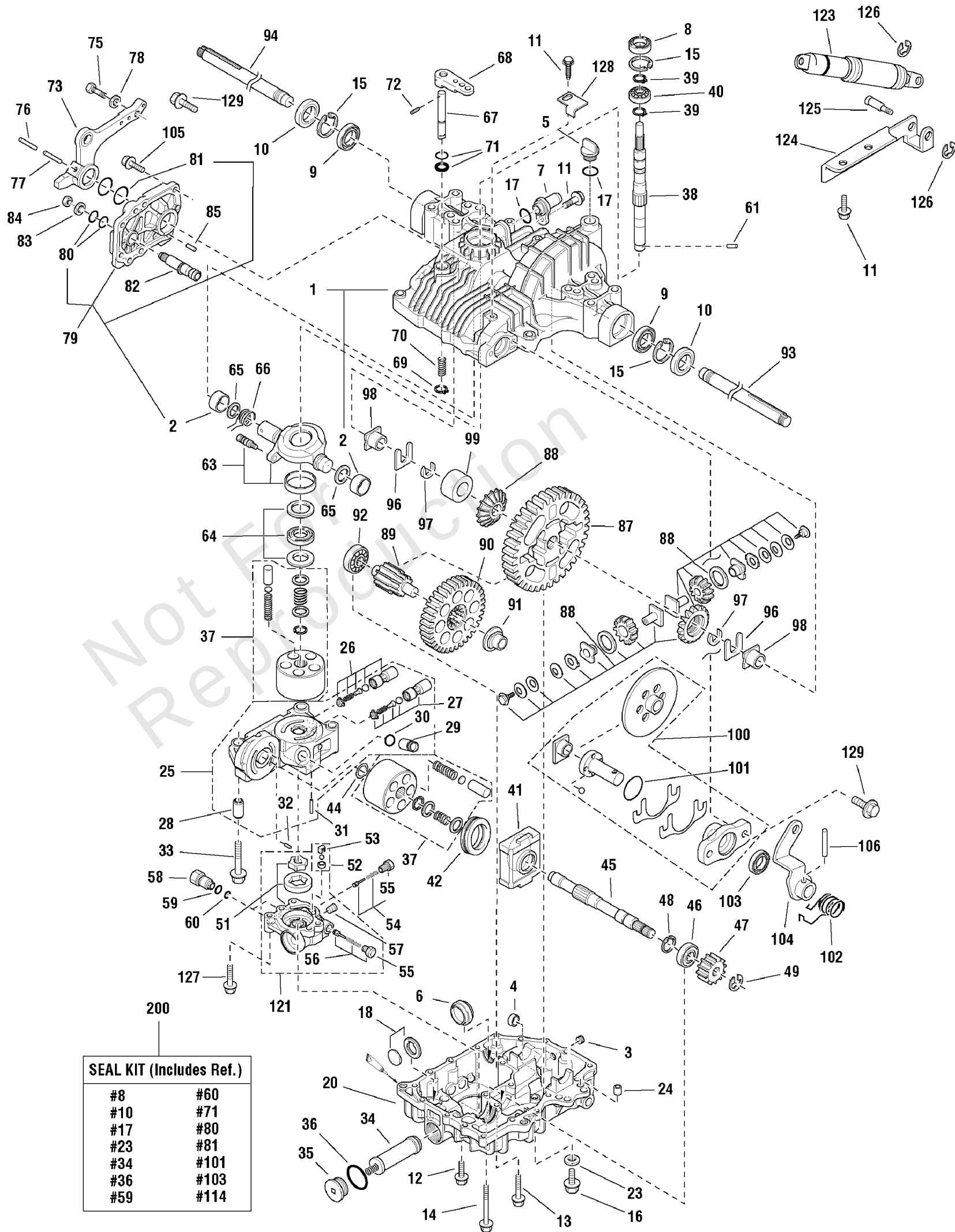
Footnotes:

Note:* See your local authorized dealership for parts and warranty or contact Tuff Torq at www.tufftorqservices.com (U.S. 1-866-572-3441 Int'l 01-423-585-1977)

Transmission SERVICE PARTS - Tuff Torq K71E without Diff Lock (1721404)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690504



Transmission SERVICE PARTS - Tuff Torq K71E without Diff Lock (1721404)

REF NO	PART NO	QTY	DESCRIPTION
54	-----	1	*VALVE, (Imp Complete)
55	-----	2	*PLUG
56	-----	1	*VALVE, (Charge Complete)
57	1708665SM	1	PLUG, PT 1/8
58	1720829SM	2	CONNECTOR
59	1723773SM	2	O-RING
60	1720831SM	2	PACKING, 6.1
61	1720832SM	1	PIN, 3.2 x 21
63	-----	1	*SWASH PLATE, Complete
64	-----	1	*BEARING, Complete
65	-----	2	*WASHER
66	-----	1	*SPRING (N/C)
67	-----	1	*SHAFT (BYPASS)
68	-----	1	*LEVER (BYPASS)
69	1718061SM	1	RING
70	1725730SM	1	SPRING
71	1708691SM	2	O-RING, 1A P10A
72	1707839SM	1	PIN, 3.0A*20
73	1720840SM	1	CONTROL LEVER
75	1720841SM	1	BOLT
76	1720842SM	1	PIN, 6.0A x 50
77	1720843SM	1	PIN, 3.5A x 50
78	-----	1	*WASHER, 10
79	-----	1	*SIDE COVER SET
80	1707879SM	2	PACKING, P14
81	1720846SM	2	PACKING, P28
82	-----	1	*FULCRUM, (ECCENT)
83	1708689SM	1	WASHER
84	1708692SM	1	NUT 12
85	-----	2	*PIN, 8 x 16
87	-----	1	*FINAL GEAR
88	1723796SM	2	DIFFERENTIAL GEAR KIT
89	-----	1	*SHAFT, (F PINION)
90	-----	1	*REDUCTION GEAR
91	-----	1	*BUSHING, 15
92	-----	1	*BEARING, 6203SH2
93	1720855SM	1	*AXLE SHAFT, Left
94	-----	1	*AXLE SHAFT, Right
96	1720858SM	2	THRUST WASHER
97	1720859SM	2	RING
98	-----	2	*BUSHING
99	-----	1	*COLLAR, (Diff. Lock)
100	1720862SM	1	BRAKE KIT
101	-----	1	*PACKING, G35
102	1720864SM	1	SP, (RETURN)
103	1720865SM	1	SEAL, TC173007
104	-----	1	*ARM, (BRAKE)
105	-----	1	*BOLT, 8 x 35

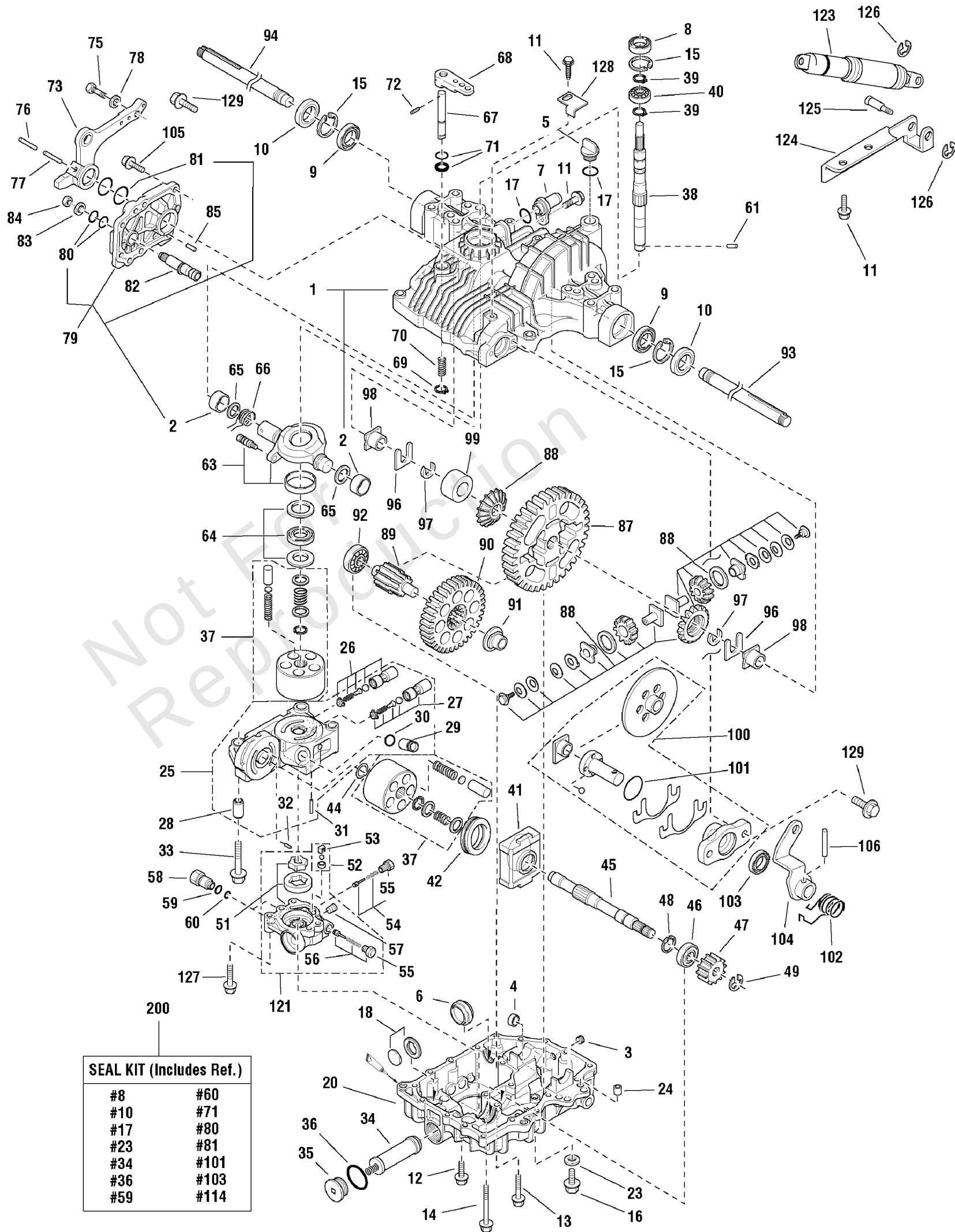
Footnotes:

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Transmission SERVICE PARTS - Tuff Torq K71E without Diff Lock (1721404)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690504



Transmission SERVICE PARTS - Tuff Torq K71E without Diff Lock (1721404)

REF NO	PART NO	QTY	DESCRIPTION
106	1718100SM	1	PIN, 6.0A x 4.0
121	1720822SM	1	PUMP CASE S/A
123	1718039SM	1	SHOCK ABSORBER
124	1731903SM	1	STAY
127	1720833SM	3	BOLT, 8 x 45
128	1721188SM	1	STOPPER, Brake
129	1720867SM	2	BOLT, 8 x 25
200	1727539SM	1	SEAL KIT, K71H, E, J, L
201	-----	1	*KIT, Repair -(Not Shown)

Not For
Reproduction

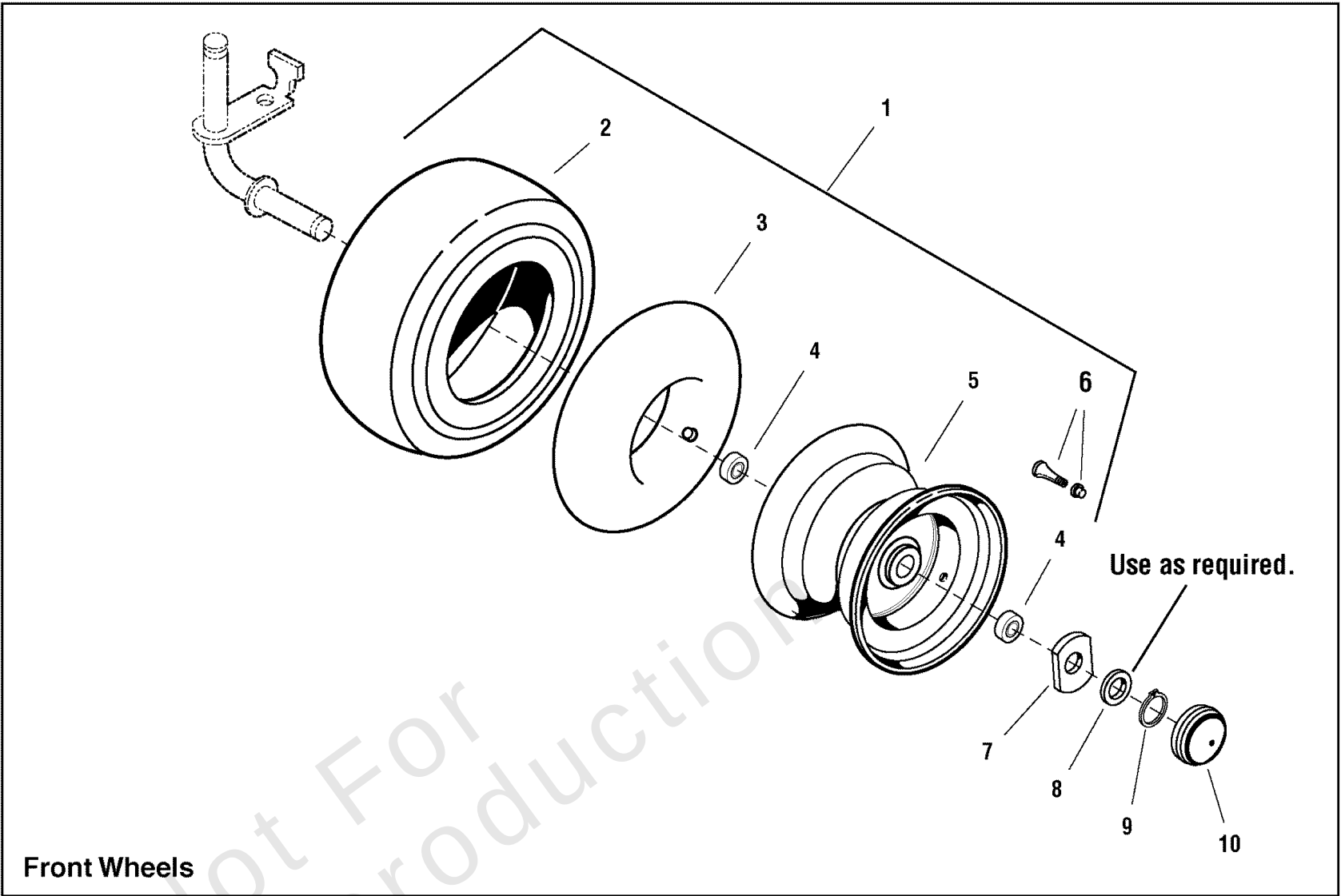
Footnotes:

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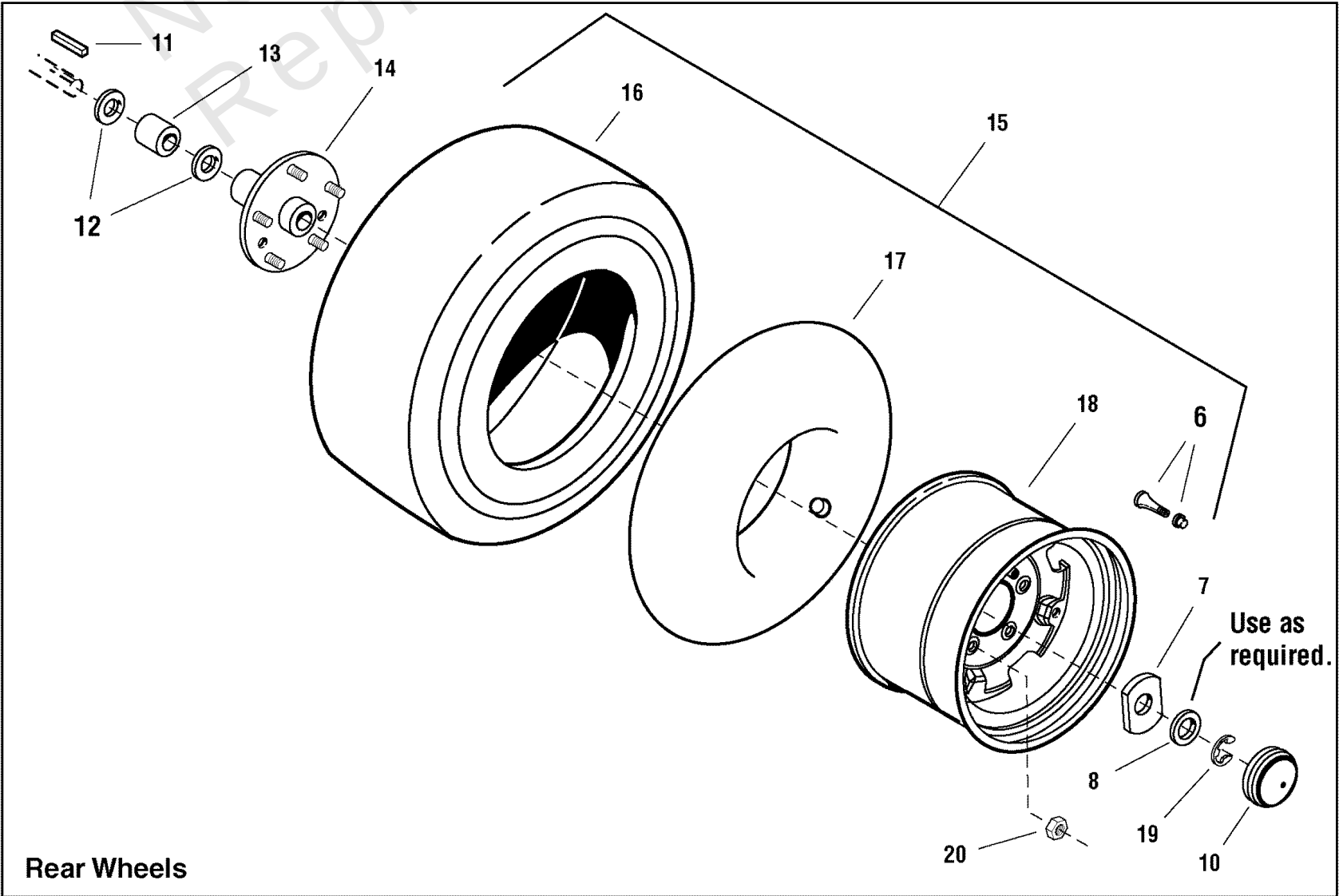
Wheels & Tires Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690504



Front Wheels



Rear Wheels

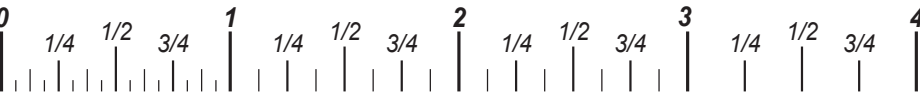
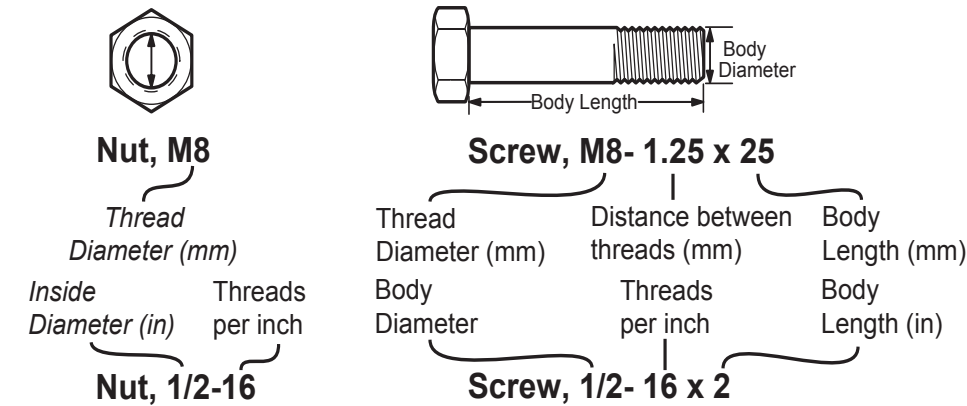
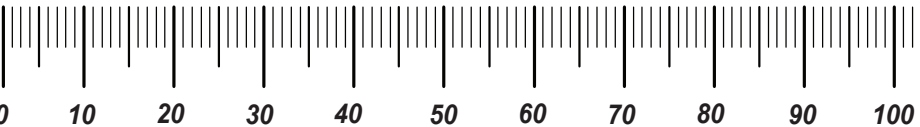
Wheels & Tires Group

REF NO	PART NO	QTY	DESCRIPTION
1	1722305SM	2	WHEEL & TIRE ASSEMBLY, Front, (Includes Ref. Nos. 2, 3, 4, 5 & 6)
2	1722833SM	2	TIRE, 16 x 6-1/2 - 8 Super Turf, Front
3	2164247SM	2	TUBE, Tire 16 x 6-1/2 - 8, Front
4	1722834SM	2	WHEEL, w/Bearings, 5 3/8 x 7-15/16, Front
5	2172353SM	4	VALVE STEM & CAP ASSEMBLY
6	1722726SM	4	WASHER, Special, Hub Cap, 1 x 2-1/2
7	1919394SM	6	WASHER, 1"
8	2832577SM	2	RING, Retainer
9	1722676SM	4	CAP, Hub Grey, 2-23/64
10	2105337SM	2	KEY, HI PRO, 1/4 x 2
11	2860200SM	4	WASHER
12	1723112SM	2	SPACER, 1-1/16 x 1-1/2 x 1-23/32, Black
13	1721400SM	2	PLATE & HUB ASMY
14	1722766SM	2	WHEEL & TIRE ASSEMBLY, Rear 23" (Includes Ref. Nos. 6, 16, 17 & 18)
15	1722830SM	2	TIRE-23 X 10.50-
16	2157638SM	2	TUBE, Tire 23 x 10-1/2 - 12, Rear
17	-----	2	WHEEL-REAR 12X7.
18	2834712SM	2	RING, Shaft
19	2177725SM	10	NUT, Hex 7/16-20, For Wheel Bolt

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).

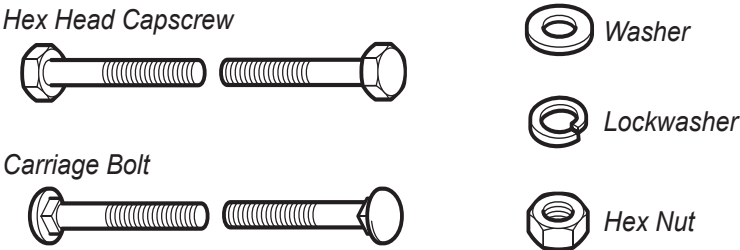
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

