



Parts Manual

Mfg. No: 2690278

Broadmoor, 20HP Hydro RMO and 50"
Mower Deck

1694473 - 50" Mower Deck.....	
1694632 - Broadmoor, 20HP Hydro RMO.....	

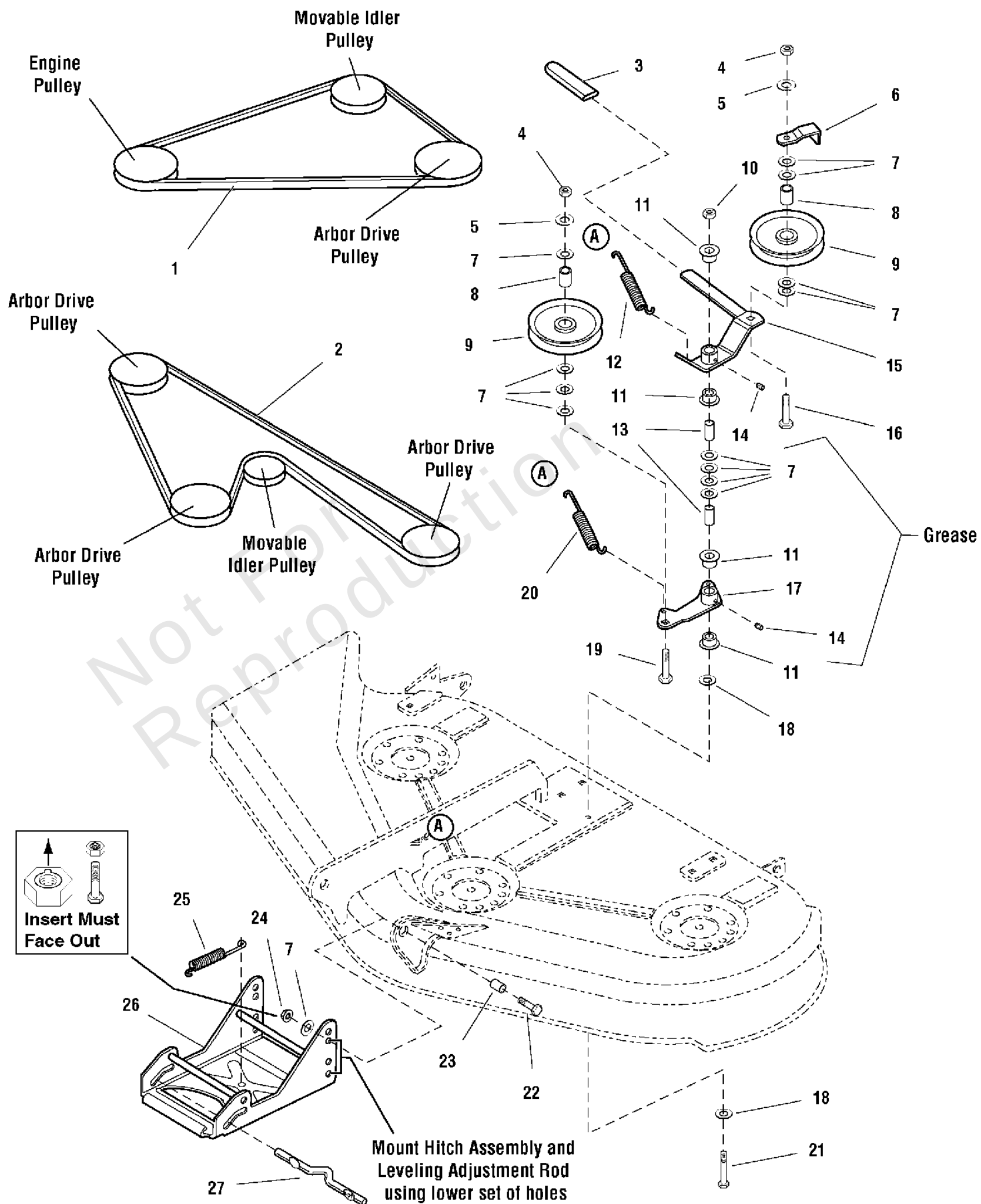
Not For
Reproduction

Model Components	Page
50" Mower Deck - Clutch & Support Group.	4
50" Mower Deck - Height Adjustment & Roller Bar.	6
50" Mower Deck - Housing, Arbors & Blades.	8
Control Group - Cruise Control.	10
Controls Group.	12
Decals - Brand & Model.	14
Decals - Safety & Common.	16
Electrical Group.	18
Engine Group - Electric Clutch - 18HP & 20HP Briggs & Stratton, Vanguard.	22
Frame & Front Axle Group.	24
Hood, Grille & Dash Group (986608_986609_986610_987167_987168_987169_989136_990098).	26
Lift Group - Manual.	28
Seat & Seat Deck Group.	30
Steering Group - Manual Steering.	32
Transmission Group - Tuff Torq K57.	34
Transmission SERVICE PARTS - Tuff Torq K57 (1722668).	36
Wheels & Tires Group.	40
Torque Specification Chart.	42

50" Mower Deck - Clutch & Support Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



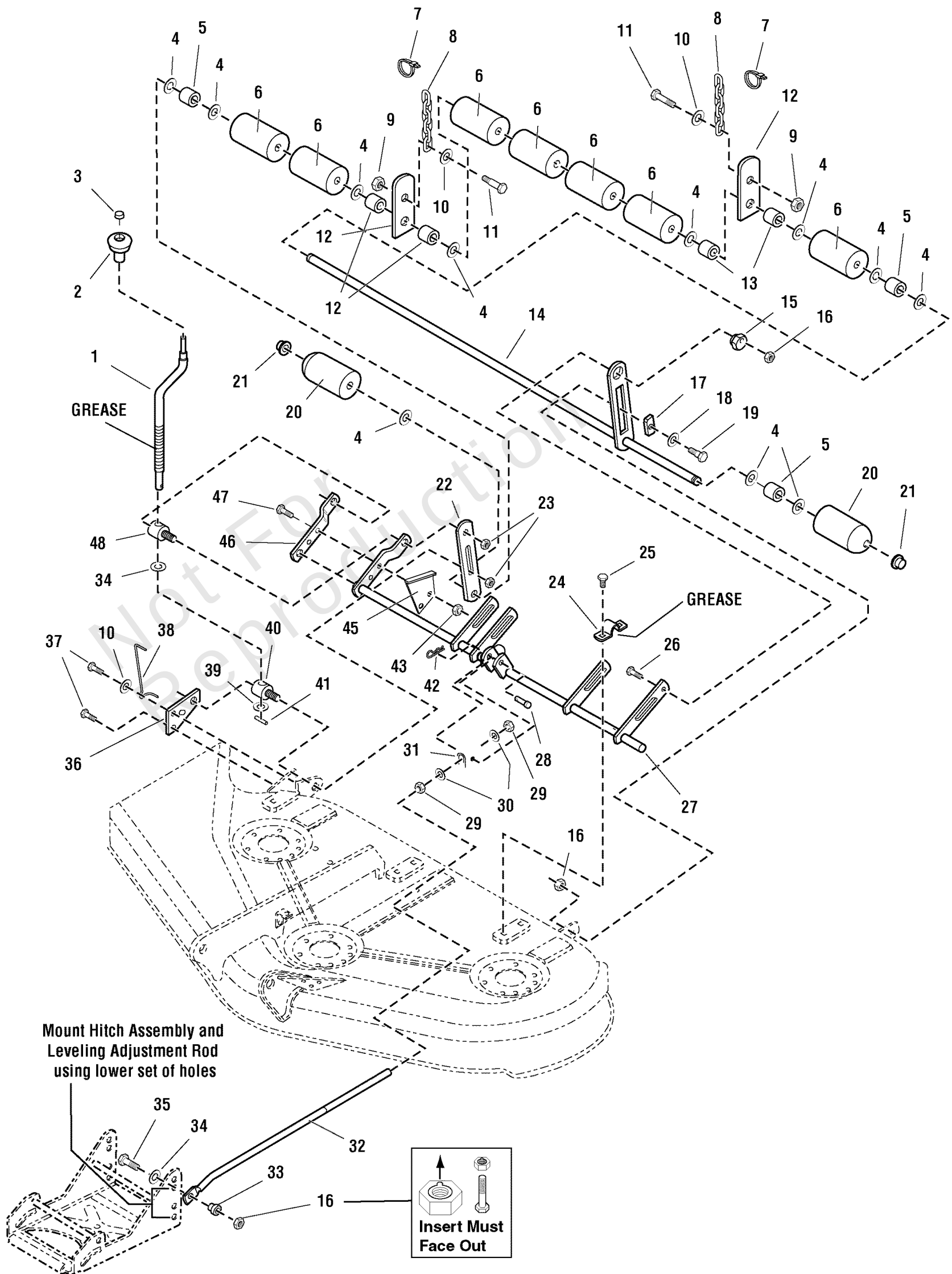
50" Mower Deck - Clutch & Support Group

REF NO	PART NO	QTY	DESCRIPTION
1	1707740	1	V-BELT, Mower Drive
2	1703836	1	V-BELT, Arbor Drive
3	1665835	1	GRIP, Lever
4	1916950	2	NUT, Hex, 3/8-16
5	1916965	2	WASHER, Lock, 3/8
6	1677135A	1	BELT STOP, Idler
7	1924940	14	WASHER, 3/8
8	1716553	1	HUB, 25/64 x 3/4 x 63/64, Powder Metal
9	1685150	2	PULLEY, Idler -(Includes Ref. No. 8)
10	1960339	1	NUT, Hex Flange, 3/8-16, MAC Lock Large, Black
11	1676148	4	BUSHING, 5/8 x 3/4 x 13/32, Powder Metal
12	1715435	1	SPRING
13	1674669	2	SPACER, 25/64 x 5/8 x 1-1/8, Case Hardened
14	2812808	2	GREASE FITTING
15	1704658	1	LEVER ASSEMBLY, Idler -(Includes Ref. Nos. 11 & 14)
16	1960315	1	CARRIAGE BOLT, 3/8-16 x 2
17	1718561	1	LEVER ASSEMBLY, Idler Arm -(Includes Ref. Nos. 11 & 14)
18	1924356	2	WASHER, 3/8, Black
19	1931352	1	CARRIAGE BOLT, 3/8-16 x 1-1/2
20	1656936	1	SPRING
21	1923938	1	CAPSCREW, Hex Head, 3/8-16 x 3-1/2
22	1921968	2	CAPSCREW, Hex Head, 3/8-16 x 1-3/8
23	2157081	2	SPACER, 3/8 x 3/4 x 1/2
24	2860681	2	NUT, Hex Aluminum Insert Lock, 3/8-16
25	2156302	1	SPRING
26	1707432A	1	HITCH ASSEMBLY
27	1715759	1	ROD, Latch

50" Mower Deck - Height Adjustment & Roller Bar

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



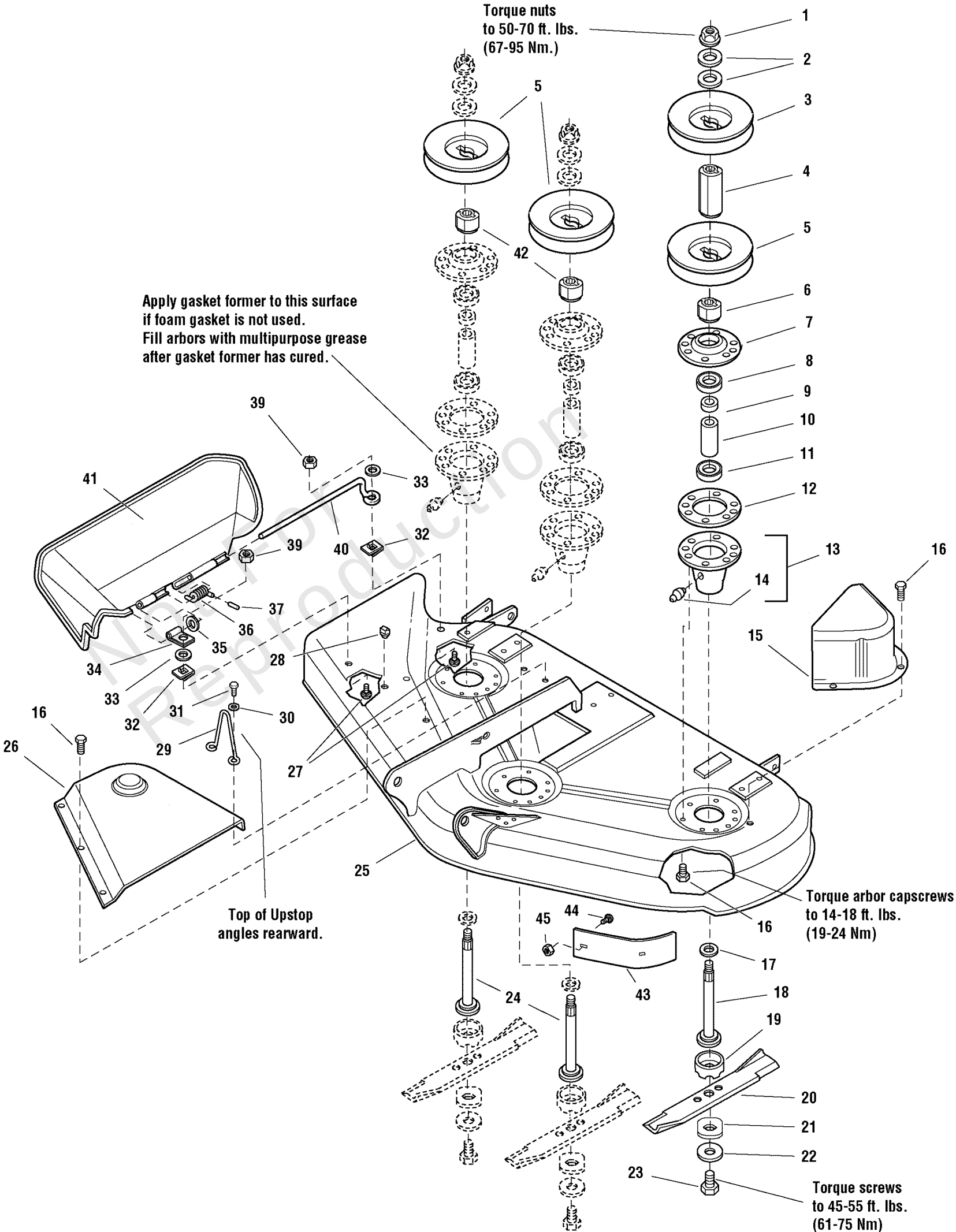
50" Mower Deck - Height Adjustment & Roller Bar

REF NO	PART NO	QTY	DESCRIPTION
1	1719901SM	1	CRANK, Height Adjustment
2	1714084SM	1	KNOB, Height Crank
3	1960093SM	1	PAL NUT
4	1924366SM	8	WASHER, 5/8
5	1709195SM	3	SPACER, .66 X 7/8 X 1 1/4
6	1668513SM	8	ROLLER, .652 ID, 2.50 OD, 4.10 LG
7	1701011SM	2	TIE, Self Locking
8	1708266ASM	2	CHAIN-LINK 8.4 LG 06
9	1919438SM	2	NUT, Hex Lock ESNA Light, 5/16-18, Black
10	1919381SM	5	WASHER, 5/16, Black
11	1930570SM	2	CAPSCREW, Hex Head, 5/16-18 x 1-1/4, G8, 1/2 Thread
12	1725640ASM	2	LINK, Lift, Roller Shaft
13	1602946SM	2	SPACER, .66 ID
14	1686687SM	1	SHAFT ASSEMBLY, Roller, 50", (Includes Ref. No. 10)
15	1704082SM	1	NUT, Hex Adjusting, 11/16
16	2860681SM	3	NUT, Hex Flange, 3/8-16
17	1677507SM	1	SLIDE
18	1924361SM	1	WASHER, Plain, 1/2
19	2172622SM	1	BOLT, Shoulder, 3/8-16 X 1.34, 1/2 Shoulder
20	1722036SM	2	ROLLER, Rounded, 4.1 LG, 650 ID, 2.50 OD Rounded End
21	1960520SM	2	NUT, Push, 5/8
22	1704074ASM	1	BAR, Roller
23	1930644SM	2	NUT-HEX FLANGE 1/2-1
24	1665374SM	3	STRAP-1.00WD 3.06LG .
25	1664847SM	6	CAPSCREW, Hex Head Taptite, 5/16 -18 x 3/4
26	1931352SM	1	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2
27	1718828ASM	1	ARM ASSEMBLY, Mower
28	2118053SM	1	PIN, Clevis
29	1915726SM	2	NUT, Hex, Jam, 1/2-13
30	1960170SM	1	WASHER, 11/32
31	1706645ASM	1	TRUNNION-2.00WD-BLACK
32	1722995SM	1	ROD, Adjustment
33	1706644SM	1	SPACER, 3/8X3/4X15/16
34	1924940SM	1	WASHER, 3/8
35	1922606SM	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
36	1704080ASM	1	PLATE, Mower Support
37	1931202SM	2	CAPSCREW, Hex Head Taptite, 5/16-18 x 1-1/4
38	1704114SM	1	INDICATOR, Cutting Height
39	1704097SM	1	WASHER, Detent
40	1704086SM	1	TRUNNION
41	2816001SM	1	PIN-SPRING .188 X 1.0
42	1960074SM	1	CLIP, HAIR PIN .093DI
43	1931277SM	2	NUT, Hex, 5/16-18 Whiz Lock Flange
45	1704116ASM	1	BRACKET-HEIGHT OF CUT
46	1704083ASM	1	ARM, Rear, Mower, RH
47	1921977SM	2	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
48	1704087SM	1	TRUNNION, Threaded

50" Mower Deck - Housing, Arbors & Blades

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



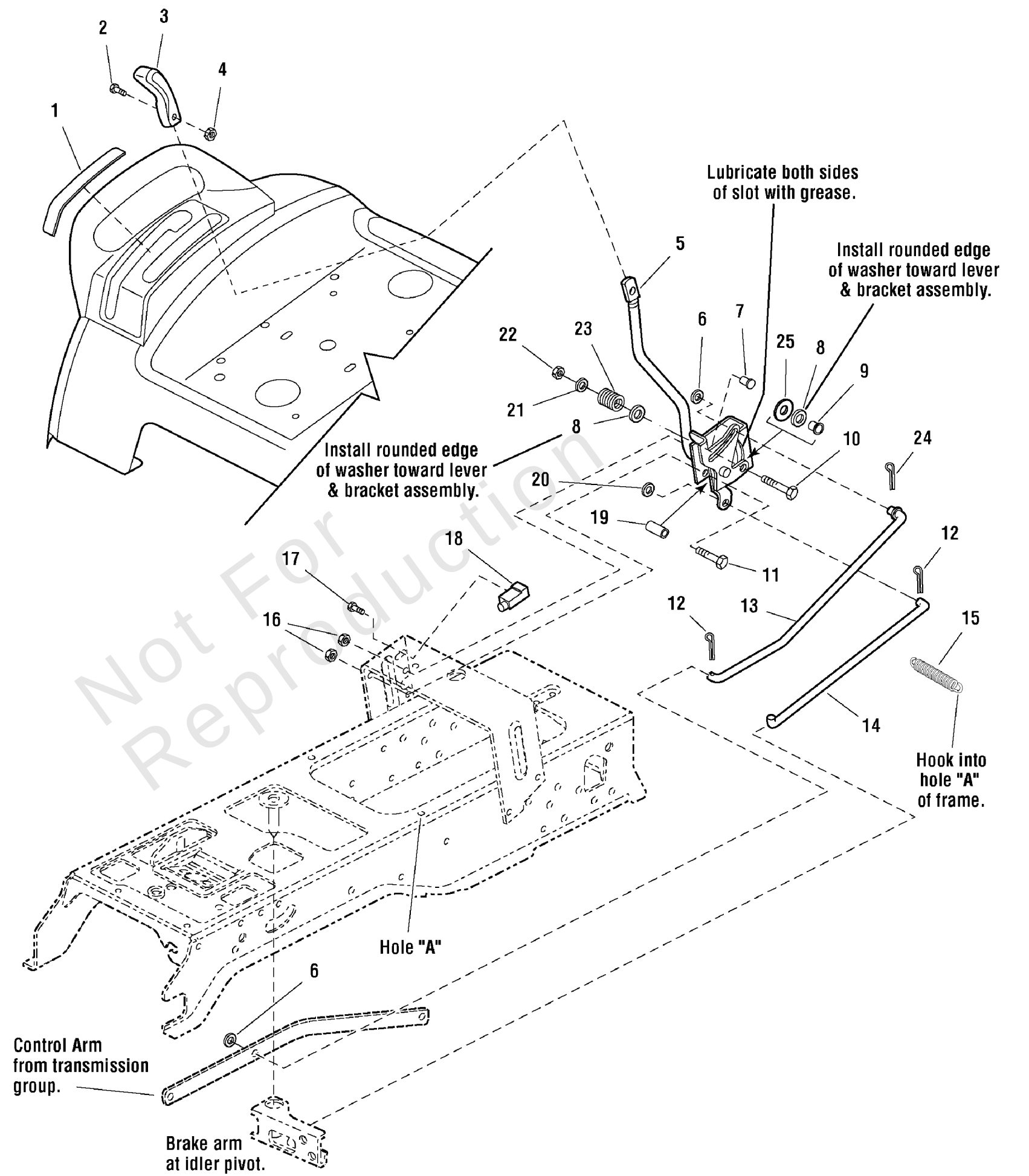
50" Mower Deck - Housing, Arbors & Blades

REF NO	PART NO	QTY	DESCRIPTION
1	1714419SM	3	NUT, Hex Flange, 9/16-18
2	1713675SM	6	WASHER, Bellville .56ID x 1.34 OD x .05T
3	1713161SM	1	PULLEY, LH, .49" Shallow-Groove OD 4.5"
4	1713158SM	1	HUB, Double Pulley
5	1713098SM	3	PULLEY, .49" Shallow-Groove OD 4.25"
6	1713533SM	1	HUB, Double Pulley
7	1655729ASM	3	HOUSING-ARBOR TOP - B
8	2108202SM	3	BEARING, BALL
9	1715724SM	3	SPACER, 21/32 x 3/4 x 5/8
10	1732544SM	3	SPACER, 11/16 x 5/32 x 2-11/16
11	1705897SM	3	BEARING, BALL 11/16X1
12	1707335SM	3	GASKET, Foam
13	1713338ASM	3	HOUSING ASSEMBLY, Arbor Bottom, w/Lube Fitting -(Includes Ref. No. 14)
14	1704314SM	3	LUBE FITTING, .250 DR
15	1720560ASM	1	COVER, Arbor
16	1664847SM	26	CAPSCREW, Hex Head Taptite, 5/16-18 x 3/4
17	1713619SM	3	WASHER, Bellevilled, 9/16, Black
18	1713612SM	1	SHAFT, Arbor (LH)
19	1713196SM	3	SHIELD, Grass, Lower
20	1708229ASM	3	BLADE, Mower, 18-1/8
21	1713089SM	3	WASHER, Hex, 11/16 x 2
22	1656916SM	3	WASHER, SPRING 0.475I
23	2823471SM	3	CAPSCREW, Hex Head, 7/16-14 x 1
24	1713195SM	2	SHAFT, Arbor (Center & RH)
25	1685495SM	1	MOWER HOUSING ASSEMBLY, 50" Mower (Orange)
25	1687156SM	1	MOWER HOUSING ASSEMBLY, 50" Mower (Red)
26	1715673SM	1	COVER, Arbor
27	1931318SM	2	CARRIAGE BOLT, 1/4-20 x 7/8
28	1705115SM	1	PLUG, Hole
29	1719929SM	1	UPSTOP
30	1924940SM	2	WASHER
31	1960541SM	2	CAPSCREW, Hex Head Taptite, 5/16-18 x 3/4
32	1960518SM	2	NUT, Push
33	1960353SM	2	WASHER, 1/4, Black
34	1704873SM	1	CLAMP, WIRE, .312DIA
35	1919326SM	1	WASHER, 5/16
36	7101082SM	1	SPRING, Torsion
37	1723323SM	1	CAP, Spring End
39	1920397SM	2	NUT, Hex, 1/4-20 ESNA
40	1706709SM	1	ROD-.283DIA 11.65LG D
41	1705449SM	1	DEFLECTOR, Plastic
42	1713197SM	2	HUB, Pulley, Center & RH
43	1724538ASM	1	BAFFLE, Blowout, Short
44	1927557SM	2	NUT, Hex, Whizlock, 5/16-18
45	1931333SM	2	CARRIAGE BOLT, 5/16-18 x 3/4

Control Group - Cruise Control

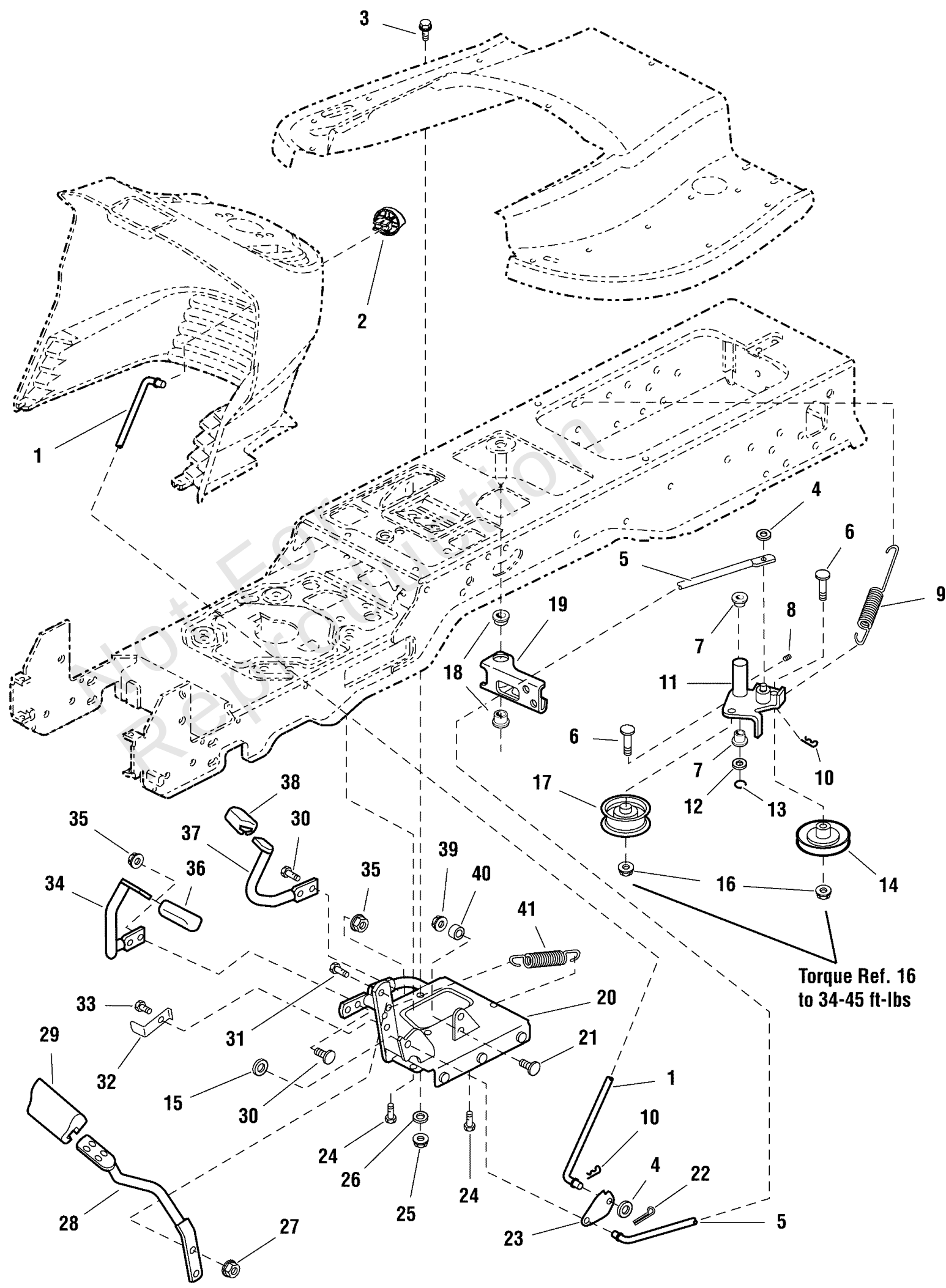
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



Control Group - Cruise Control

REF NO	PART NO	QTY	DESCRIPTION
1	1723713SM	1	DECAL, Crusie / Lift
2	1960666SM	1	SCREW, Torque Head Plus Socket Head, 1/4-20 x 7/8
3	1722303SM	1	HANDLE, SHIFT
4	1920397SM	1	NUT, Hex Lock ESNA Light, 1/4-20
5	1722003SM	1	LEVER ASMY-CRUIS
6	1960103SM	2	WASHER, 3/8"
7	1931333SM	1	CARRIAGE BOLT, 5/16-18 x 3/4
8	1926192SM	2	WASHER-0.500(0.56IDX1
9	1709043SM	1	SPACER, w/Flange, 11/32 x 15/32 x 3/4
10	1931342SM	1	CARRIAGE BOLT, 5/16-18 x 2 3/4
11	1960273SM	1	CARRIAGE BOLT, 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
25	1705928SM	1	DISC, Friction



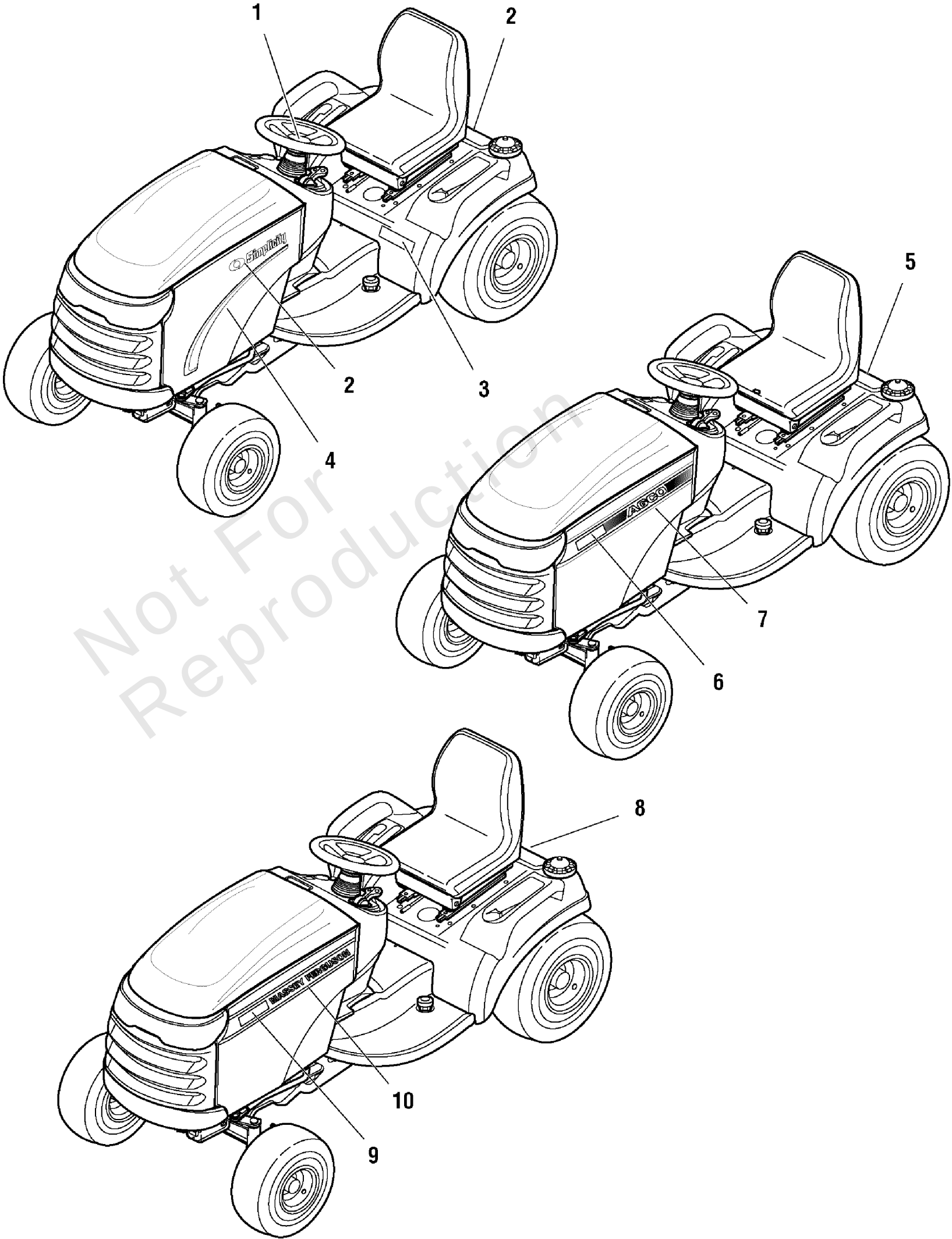
Controls Group

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

Decals - Brand & Model

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



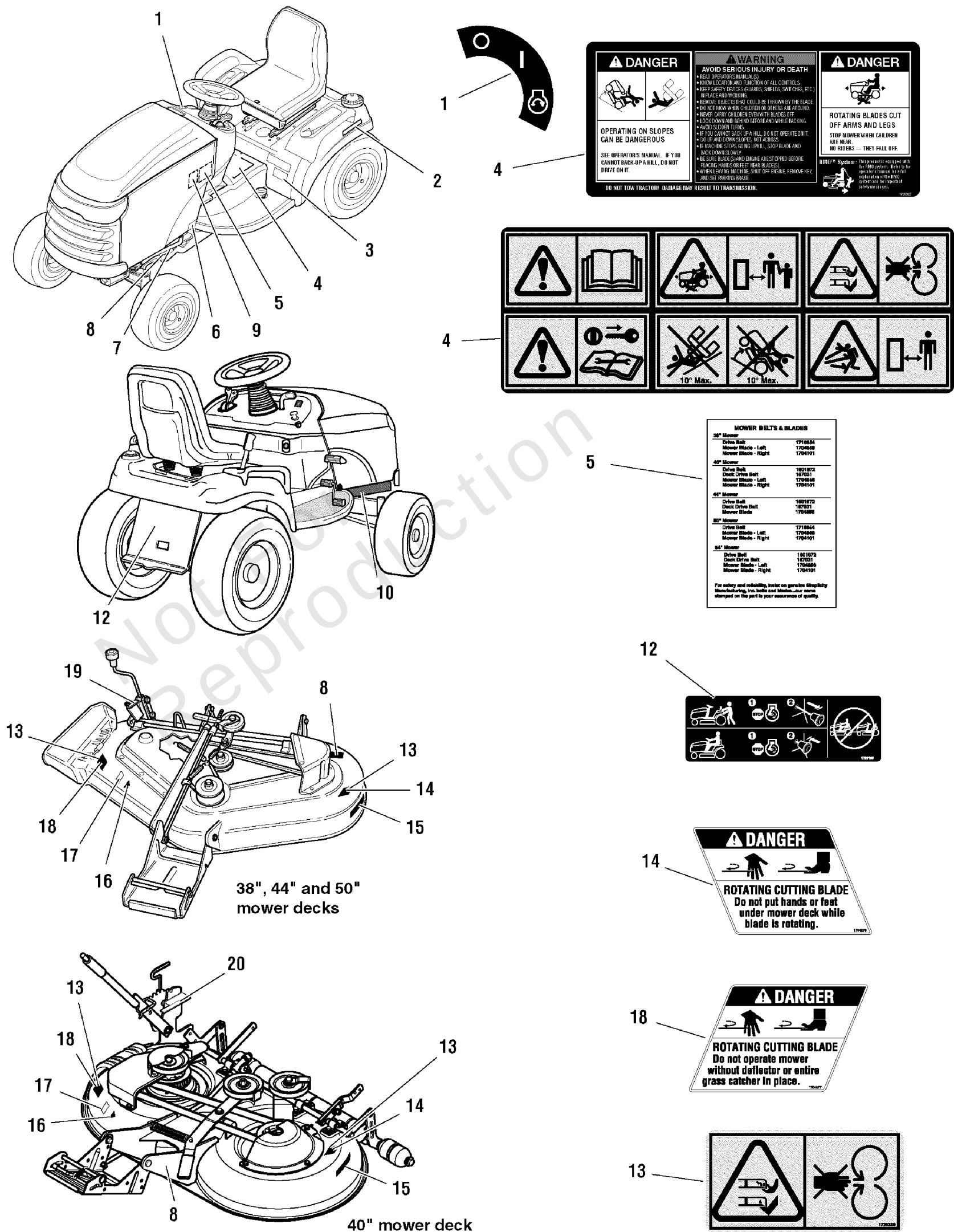
Decals - Brand & Model

REF NO	PART NO	QTY	DESCRIPTION
1	1731418	1	DECAL, ICON Simplicity, Orange
2	1722551	3	DECAL, Simplicity, Silver & Blue w/Icon
3	1722776	1	DECAL, Broadmoor, Silver & Blue
4	1722773	1	DECAL, Hood Stripe, RH, Simplicity, Blue & Silver
4	1722774	1	DECAL, Hood Stripe, LH, Simplicity, Blue & Silver
5	1708926	1	DECAL, AGCO, Logo Black, Chrome, Orange
6	1727069	1	DECAL, 1620, White, AGCO
7	1722818	1	DECAL, Hood Stripe, RH, AGCO
7	1722817	1	DECAL, Hood Stripe, LH, AGCO
8	1714363	1	DECAL, Massey Ferguson Logo, 3 Triangles
9	1725646	1	DECAL, 2618, Black, Massey Ferguson
9	1728112	1	DECAL, 2618, Cool Grey, Massey Ferguson
9	1727070	2	DECAL, 2620, Black, Massey Ferguson
9	1728054	2	DECAL, 2620, Cool Grey, Massey Ferguson
9	1750455	2	DECAL, 2622, Cool Grey, Massey Ferguson
10	1727783	1	DECAL, Hood Stripe, LH, Massey Ferguson
10	1727784	1	DECAL, Hood Stripe, RH, Massey Ferguson

Decals - Safety & Common

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



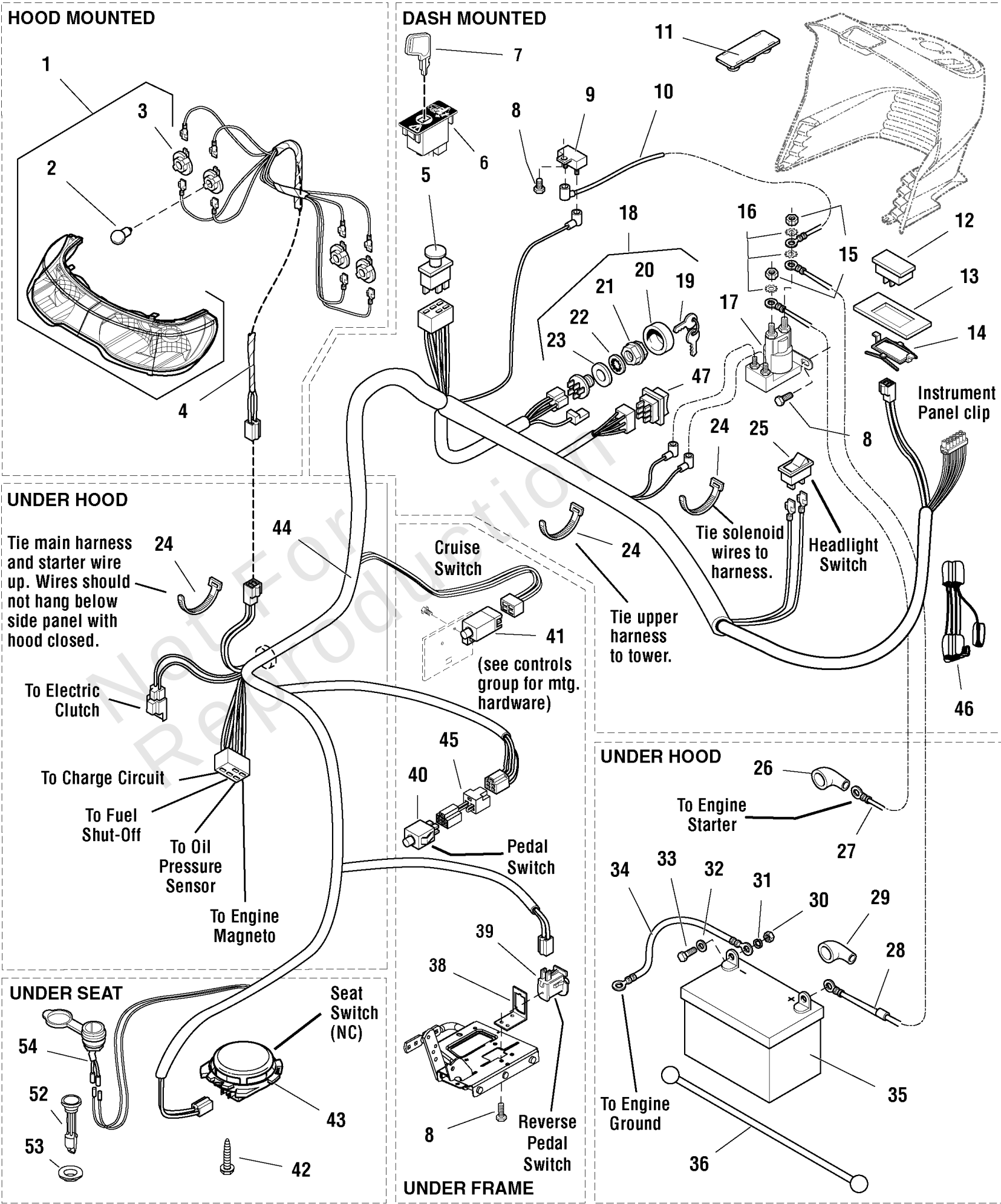
Decals - Safety & Common

REF NO	PART NO	QTY	DESCRIPTION
1	1722806	1	DECAL, Ignition Switch Symbols, White/Black
2	1718025	1	DECAL, Automatic Control Traction
3	1722779		DECAL, 18HP
3	1722780	1	DECAL, 20HP
4	1726923	1	DECAL, Tunnel Cover, Danger Slopes/Blades
4	1734027	1	DECAL, Tunnel Cover, Danger Slopes/Blades, (Export)
5	1727014	1	DECAL, Drive Belts, Mower Blades
6	1723296	2	DECAL, Protective Sticker
7	-----	1	LABEL, Decibel, Power Mass (Export)
8	-----	1	DECAL, I.D. Plate
9	1720454	1	DECAL, Touch Up Paint (Orange)
9	1725072	1	DECAL, Touch Up Paint (Red)
10	-----	1	DECAL, Patent
12	1723160	1	DECAL, Transmission Release Valve
12	1730202	1	DECAL, Transmission Release Valve
13	1720389	2	DECAL, Danger Rotating Blades (Export)
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	1722787	1	DECAL, 38", Silver on Black with Stripe
17	1722788	1	DECAL, 40", Silver on Black with Stripe
17	1722789	1	DECAL, 44", Silver on Black with Stripe
17	1722790	1	DECAL, 50", Silver on Black with Stripe
18	1704277	1	DECAL, Danger Do Not Operate Without Deflector
19	1721197	1	DECAL, Height of Cut, 38", 44" & 50"
20	1720919	1	DECAL, Height of Cut, 40"
21	1723143	1	DECAL, Deck Lift -(Not Shown)

Electrical Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



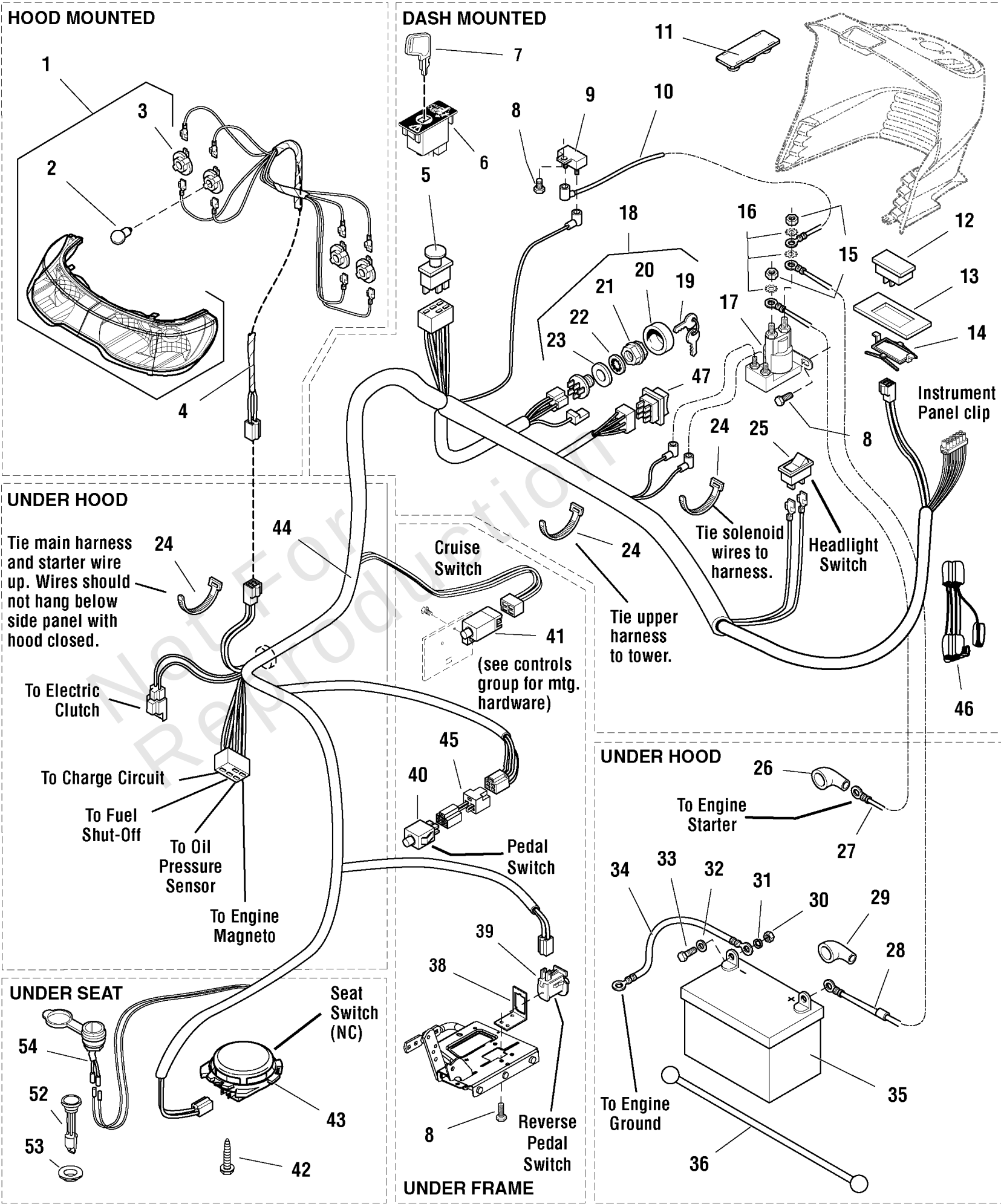
Electrical Group

REF NO	PART NO	QTY	DESCRIPTION
1	1721810	1	HEADLIGHT ASSEMBLY, 4 Bulb, (Includes Ref. Nos. 2 & 3)
2	1677371	4	BULB, Headlight, 12.8V
3	1723451	4	SOCKET ASSEMBLY, Headlight, Sealed
4	1722669	1	HARNESS, Headlight
5	1722887	1	SWITCH-PTO PUSH
6	1726556	1	SWITCH, RMO Module Only
7	1726557	1	KEY, RMO Module, Plastic
8	1925003	2	CAPSCREW, Hex Washer Head Taptite, 1/4-20 x 1/2, Black
9	1665238	1	BREAKER, Circuit, 12 Volt 20 Amps
10	1665237	1	WIRE, 12GA 5-15/16 Long, Red
11	1722611	1	PLUG, Hole, Square -(18HP & 20HP Models Only)
12	1731184	1	HOUR METER
13	1725524	1	PLUG, Dash -(Includes Ref. Nos. 12)
14	1725835	1	CLIP, Hour Meter (Service Only)
15	2820263	2	NUT, Hex, 5/16-24
16	2820426	3	LOCKWASHER, External Tooth, 5/16
17	1722739	1	SOLENOID
18	1686734	1	SWITCH ASSEMBLY, Ignition, 6 Pin, (Includes Ref. Nos. 17, 18, 19, 20 & 21)
19	1717163	1	KEYS, Set of 2
20	1717550	1	COVER, For Ignition Switch, Plastic
21	1717549	1	NUT, Hex Flange, 5/8-32, Ignition Switch
22	1960547	1	LOCKWASHER, Internal Tooth, 5/8, Thin
23	2101025	1	WASHER, Shim
24	1701011	3	TIE, Strap, 7-5/16 Long
25	1716951	1	SWITCH, Headlights , 2 Terminal
26	1713535	1	BOOT, Insulator Cable Terminal, 1-15/16 Long, Red
27	1721830	1	CABLE, #6 x 25" Long, Ring Terminals
28	1603618	1	CABLE, #6 x 8" Long, Ring Terminals
29	1677296	1	BOOT, Insulator Battery Terminal
30	2816622	3	NUT, Hex, 1/4-20
31	2816964	2	LOCKWASHER, 1/4
32	2821319	2	WASHER, 1/4
33	2823341	2	CAPSCREW, Hex Head, 1/4-20 x 3/4
34	1713163	1	CABLE, #6 x 26 Long, Ring Terminal
35	1685215	1	BATTERY, 12 Volt
36	1722009	1	STRAP, Battery, 14 Long, Rubber
37	1929000	2	CAPSCREW, Hex Head Taptite, 1/4-20 x 3/8
38	1726810A	1	BRACKET, Switch Mount
39	1732004	1	SWITCH, Push Button, NO, Black
40	1732006	1	SWITCH, Push Button, Foot Pedal
41	1717050	1	SWITCH, PLUNGER, N.O./N.C.
42	1960536	2	CAPSCREW, Hex Washer Head Plastite, 1/4 x 1/2
43	1716368	1	SWITCH, Seat, Grey, NC
44	1730192	1	HARNESS, Wiring
45	1734025	1	WIRING ASSEMBLY, All Conditions Shutdown -(CE/Export)
46	1739717	1	HARNESS, Jumper Wire -(22HP Models Only)
47	1716329	1	SWITCH, Electric Lift Rocky -(22HP Models Only)
52	1722300	1	GAUGE, Fuel

Electrical Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



Electrical Group

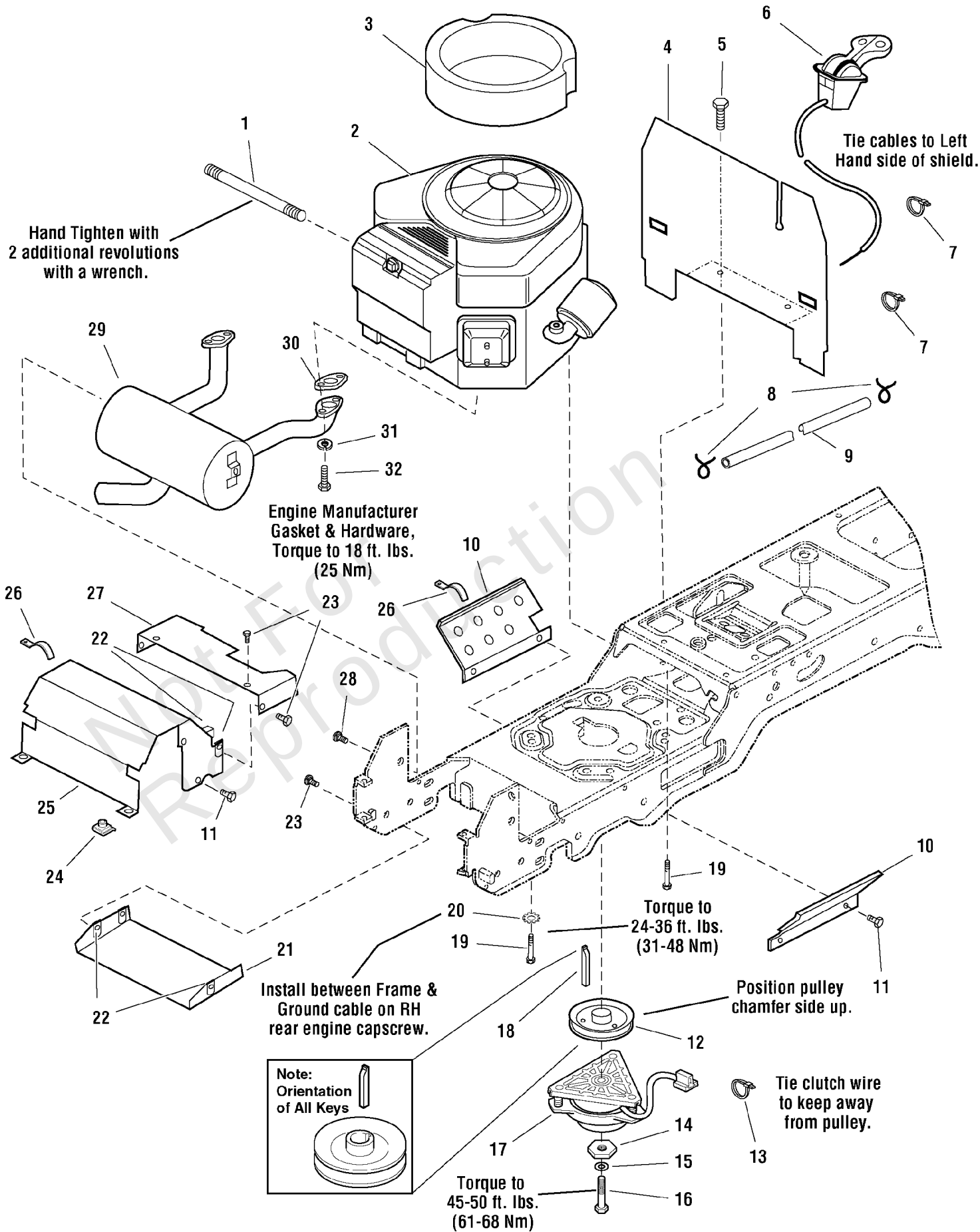
REF NO	PART NO	QTY	DESCRIPTION
53	1722337	1	GROMMET
54	1725302	1	OUTLET. 12V

Not For Reproduction

Engine Group - Electric Clutch - 18HP & 20HP Briggs & Stratton, Vanguard

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



Engine Group - Electric Clutch - 18HP & 20HP Briggs & Stratton, Vanguard

REF NO	PART NO	QTY	DESCRIPTION
1	1723165	1	HOSE, Oil Drain, 10-1/2" Long, 3/8-18 Fittings
2	-----	1	ENGINE, 18HP Briggs & Stratton Vanguard Twin, Model 356777, Type 0113-E1
2	-----	1	ENGINE, 20HP Briggs & Stratton Vanguard Twin, Model 358777, Type 0110-E1
3	1722949	1	SEAL, Circle, 18HP & 20HP
4	1722388A	1	BULKHEAD
5	1925003	2	CAPSCREW, Hex Washer Head Taptite, 1/2-20 x 1/2, Black
6	1727223	1	CONTROL, Throttle Double 39" Long w/Knobs
7	1701011	2	TIE, Wire, 7-5/16" Long
8	2860112	2	CLAMP, Hose Type E
9	1718678	1	HOSE, Fuel, 59" Long
10	1722392A	2	SHIELD, Side
11	1929000	8	CAPSCREW, Hex Washer Head Taptite, 1/4-20 x 3/8
12	1722288	1	PULLEY & HUB ASSEMBLY
13	2832747	1	TIE, Self Locking, 3-5/8 Long
14	1708264	1	WASHER, Hex, 7/16, Black
15	1918199	1	LOCKWASHER, 7/16
16	1960649	1	CAPSCREW, Hex Head, 7/16-20 x 3-1/2, 20HP
16	1960648	1	CAPSCREW, Hex Head, 7/16-20 x 2-3/4, 20HP
17	1686883	1	CLUTCH, Electric, 18HP
17	1686880	1	CLUTCH, Electric, 20HP
18	1720463	1	KEY, HI PRO, 1/4 x 2 1/2
19	704010	4	SCREW, HEX, 3/8-16
20	2820427	1	LOCKWASHER, External Tooth, 3/8
21	1722414A	1	SHIELD, Muffler Bottom
22	1960368	8	NUT, Speed, 1/4-20, Lug
23	1960295	4	CAPSCREW, Hex Flange Whiz Lock, 1/4-20 x 5/8
24	1935255	2	NUT, Speed, Lug Type, 5/16-18
25	1722389A	1	DUCT, Muffler Top
26	2834683	2	CLIP, Wire 1/8
27	1722390A	1	DUCT, Muffler Extension
28	1924856	2	CAPSCREW, Hex Washer Head Taptite, 5/16-18 x 1/2, Black
29	1722625	1	MUFFLER, Briggs & Stratton, Vanguard Twin
30	-----	1	GASKET, Briggs & Stratton, Vanguard Twin
31	1917356	4	LOCKWASHER, 5/16
32	2860660	4	CAPSCREW, Hex Flange Whiz Lock, 5/16-18 x 7/8

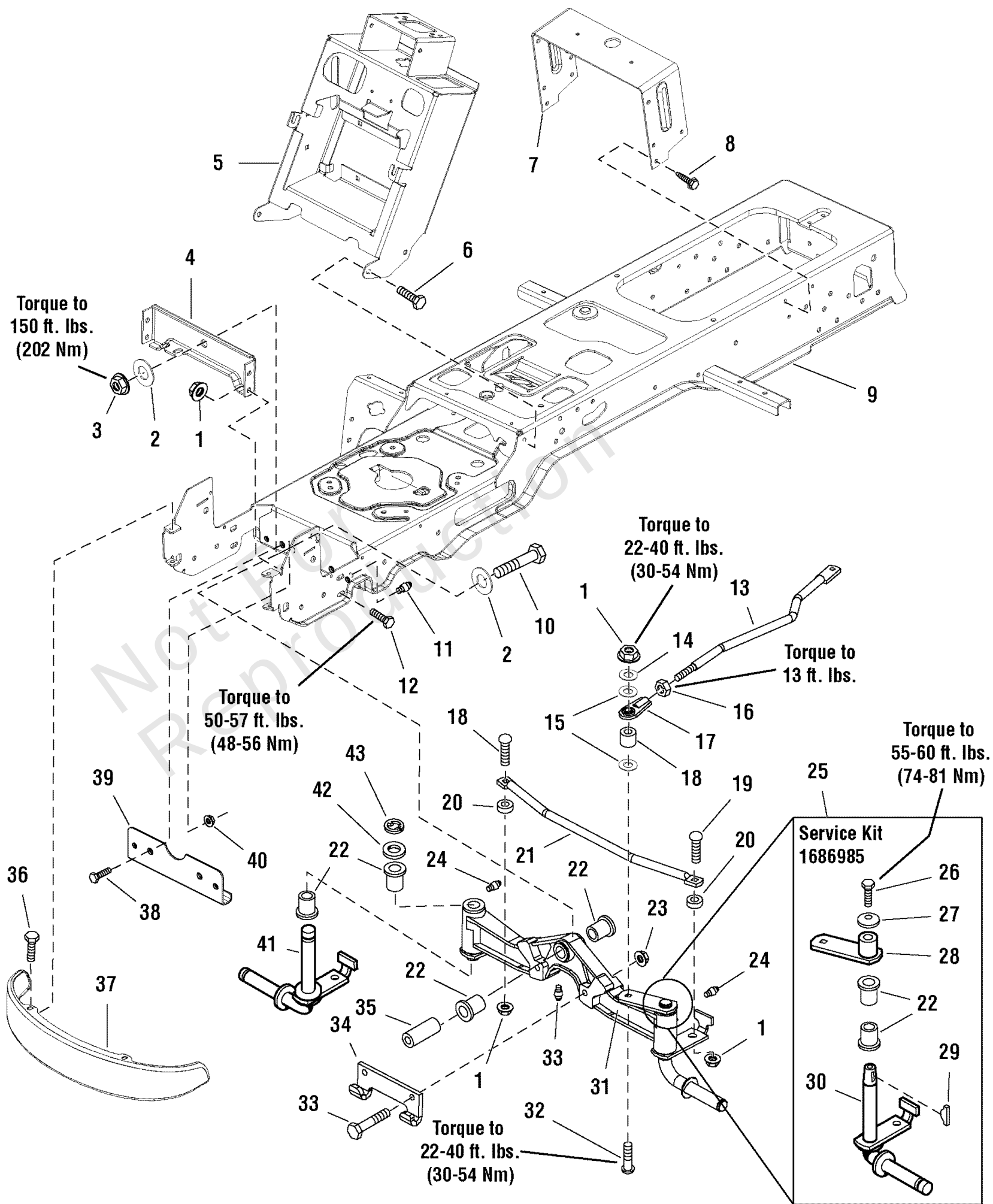
Footnotes:

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

Frame & Front Axle Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



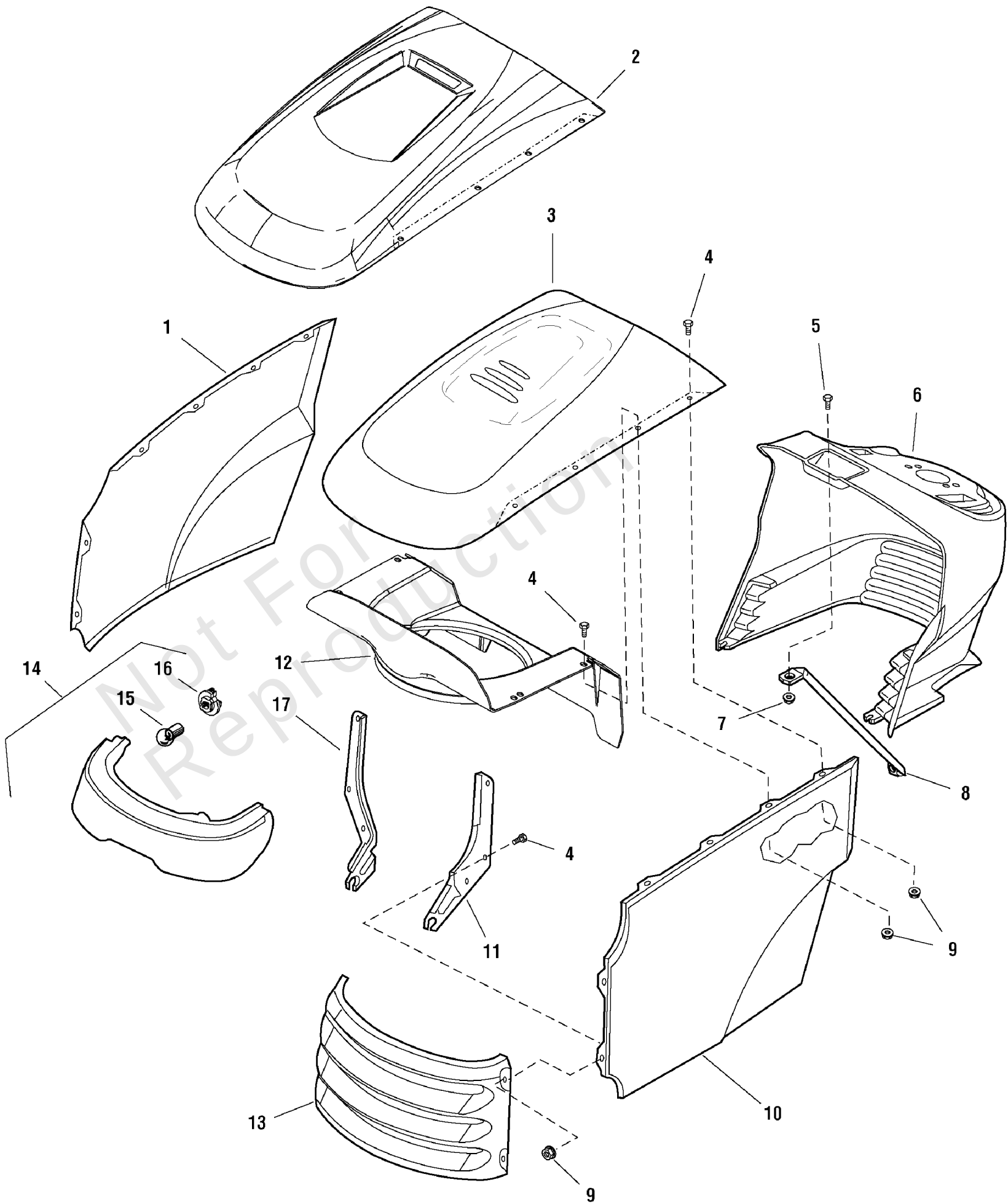
Frame & Front Axle Group

REF NO	PART NO	QTY	DESCRIPTION
1	1930645SM	7	NUT, Hex Flange Lock, 3/8-16
2	1960035SM	2	WASHER-0.625(0.64IDX1
3	2860646SM	1	NUT, Hex Flange, 5/8-11
4	1722212ASM	1	PLATE-AXLE SUPPORT-BL
5	1733765ASM	1	FRAME ASMY-FRONT & RE
6	1923683SM	4	CAPSCREW, Hex Head Taptite, 3/8-16 x 3/4
7	1723528ASM	1	SUPPORT
8	1664847SM	4	CAPSCREW, Hex Head Taptite, 5/16-18 x 3/4
9	1726989ASM	1	FRAME ASSEMBLY
10	2860645SM	1	CAPSCREW, 5/8-11 x 3-1/2
11	1704314SM	2	LUBE FITTING, .250 DR
12	1933260SM	4	CAPSCREW, Hex Head, Flange Lock, 3/8-16 x 3/4
13	1722541SM	1	LINK, Drag
14	1922755SM	1	WASHER
15	1960103SM	2	WASHER, 3/8"
16	1919262SM	1	NUT, Hex Jam, 1/2-20
17	1702779SM	1	JOINT-BALL .500-20 TH
18	1708236SM	1	SPACER
19	1931350SM	2	BOLT, RD HD SH SQ NK
20	1611705SM	2	SPACER-0.385IDX0
21	1722626ASM	1	ROD, Tie
22	1721682SM	6	BUSHING
23	1930650SM	2	NUT-HEX FLANGE 7/16-1
24	2821133SM	3	FITTING, Lube
25	1686985SM	1	SPINDLE REPLACEMENT K
26	2823485SM	1	CAPSCREW, 3/8-16 x 7/8, GR8
27	1663151SM	1	WASHER, Spring, 3/8
28	1725112SM	1	HUB & ARM ASSEMBLY
29	2830671SM	1	KEY, Woodruff
30	1724264SM	1	SPINDLE, LH
31	1722200ASM	1	AXLE ASSEMBLY, w/ LH Spindle, Complete (Includes Ref. Nos. 22, 24, 41, 42 & 43)
32	1931352SM	1	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2
33	1927531SM	2	CAPSCREW-HEX HD 7/16-
34	1721918ASM	1	HOOK, "J"
35	1721752SM	1	SPACER
36	1960086SM	4	SCREW, TRUSS HD TORX
37	1721805ASM	1	BUMPER, Black, Steel, Standard
37	1723502SM	1	BUMPER, Chrome, Optional
38	1930591SM	2	CAPSCREW, Hex Whiz Lock, 5/16-18 x 3/4
39	1724801ASM	1	PLATE, Axle Wear
40	1931277SM	2	NUT, Hex Falnge Whiz Lock, 5/16-18
41	1722199SM	1	SPINDLE, RH
42	1919394SM	1	WASHER
43	2832577SM	1	RING, Retainer

Hood, Grille & Dash Group

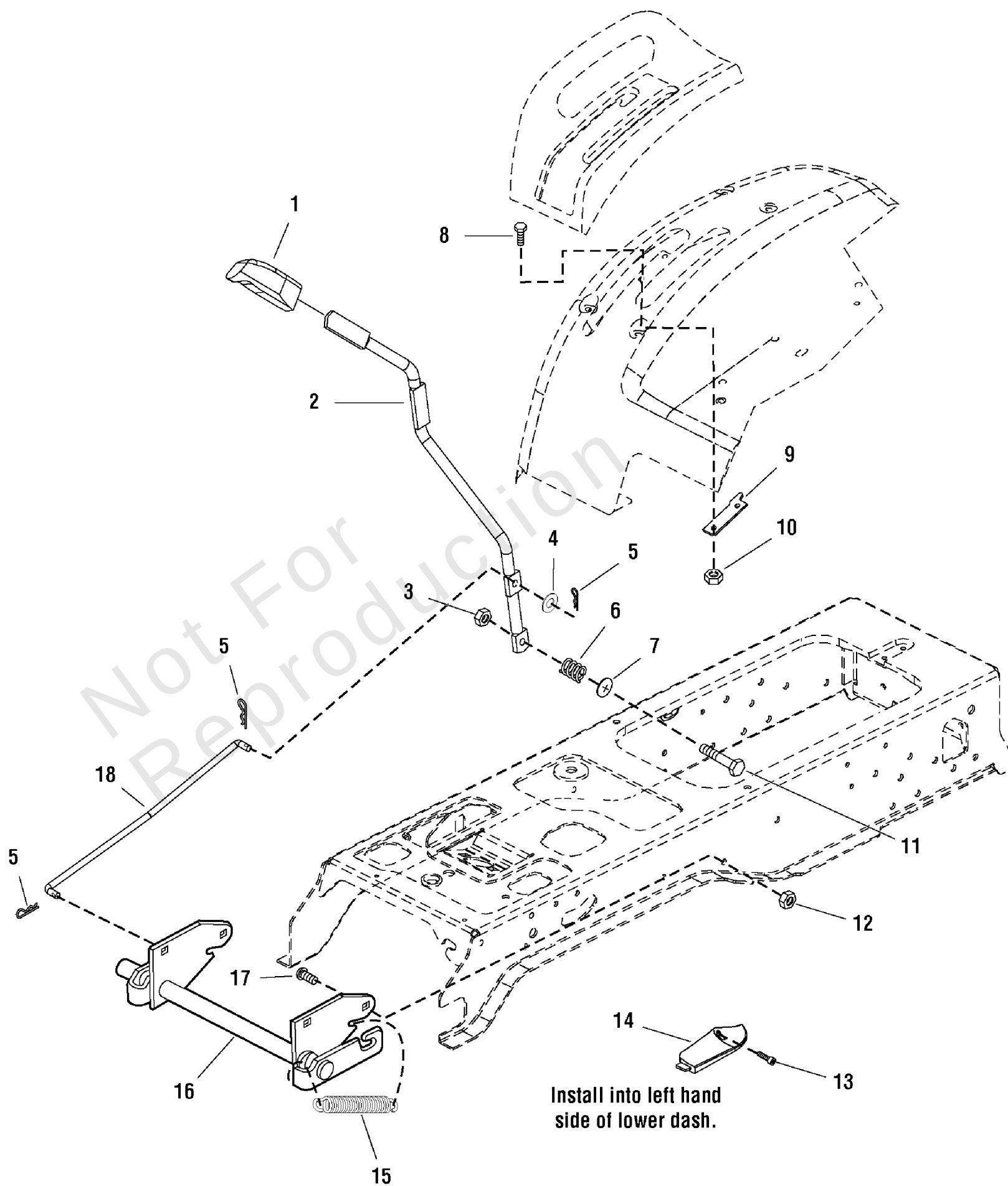
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



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



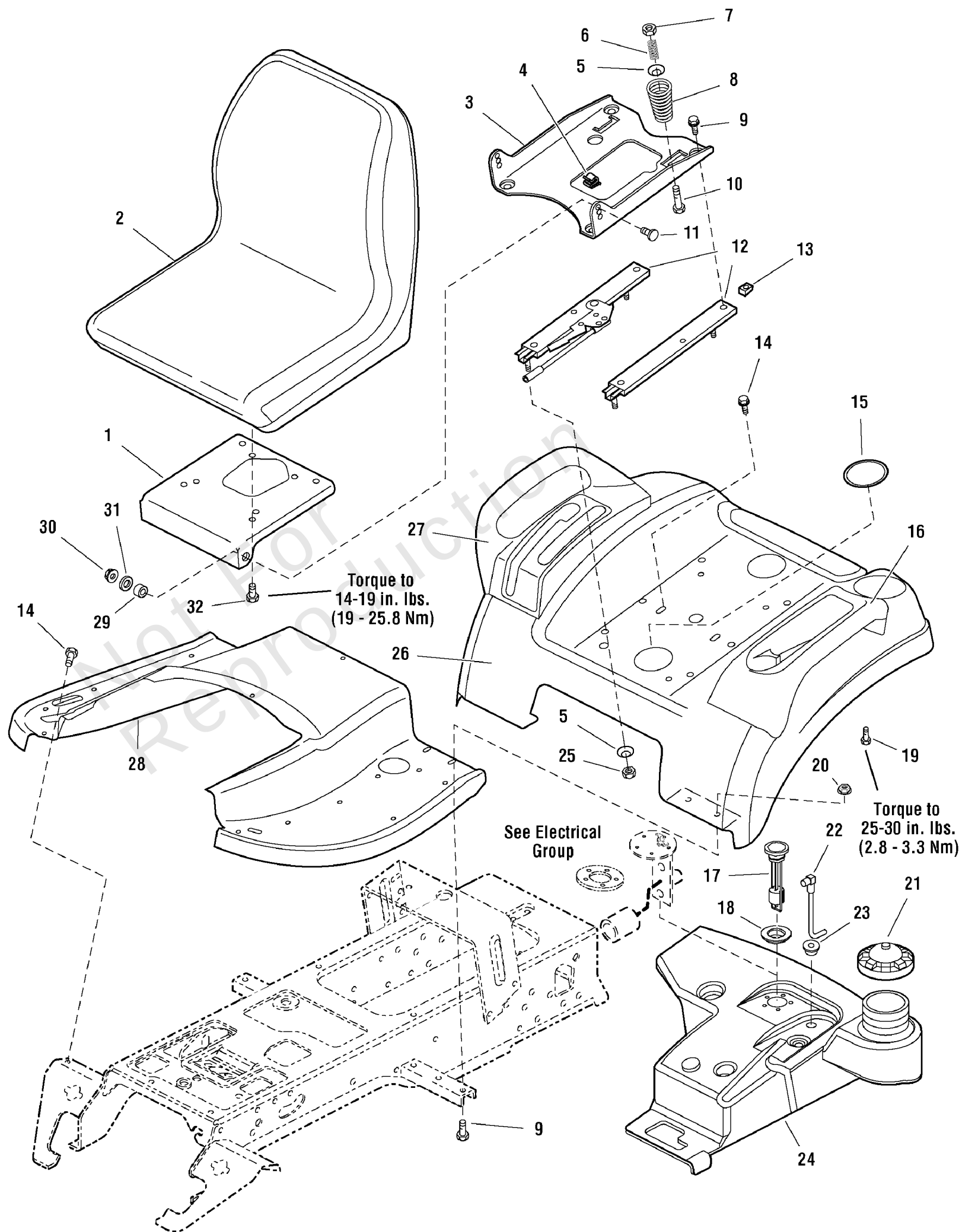
Lift Group - Manual

REF NO	PART NO	QTY	DESCRIPTION
1	1722302SM	1	GRIP
2	1722024ASM	1	ROD, Lift Lever with Flats
3	1930645SM	1	NUT, Hex Flange Lock, 3/8-16
4	1924940SM	1	WASHER
5	1722460SM	2	PIN, Quick
6	2162085SM	1	SPRING, Compression
7	5025472YP	1	NUT, Push, 3/8
8	1923341SM	2	CAPSCREW, Hex Head, 1/4-20 x 3/4
9	1722284ASM	1	QUADRANT
10	1920397SM	2	NUT, Hex Lock ESNA, 1/4-20
11	1923701SM	1	CAPSCREW, Hex Head, 3/8-16 x 2
12	1960636SM	4	NUT, KEPS Lock, 5/16-18
13	1722607SM	1	SCREW, Torx Head, # 8-16 x 1/2
14	1722285SM	1	COVER, Dash
15	2156302SM	1	SPRING, Extension, 4-1/8
16	1727437ASM	1	LIFT SHAFT ASSEMBLY,
17	1931333SM	4	CARIAGE BOLT, 5/16-18 x 3/4
18	1725638SM	1	ROD, Lift

Seat & Seat Deck Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



Seat & Seat Deck Group

REF NO	PART NO	QTY	DESCRIPTION
1	1722129A	1	BRACKET, 1-5/8 x 1-3/4
2	1687199	1	* SEAT, 18" Back, Optional
2	1687201	1	* SEAT, 15" Back, Standard
3	1722128A	1	SUPPORT, Seat
4	2172434	1	CLIP, Wire
5	1709256	2	WASHER, Spring, 5/16 x 1-1/4, Black
6	1714263	2	SPRING, Compression
7	1919438	10	NUT, Hex Lock ESNA Light, 5/16-18
8	1717051SM	2	SPRING, Seat
9	1930591	8	CAPSCREW, Hex Flange Whiz Lock, 5/16-18 x 3/4
10	1931339	2	CARRIAGE BOLT, 5/16-18 x 2
11	1931350	2	CARRIAGE BOLT, 3/8-16 x 1
12	1722356	1	SLIDE, Seat
13	1935255	4	NUT, Speed, Lug Type, 5/16-18
14	1930601	4	CAPSCREW, Hex Washer Head Taptite, 5/16-18 x 5/8
15	1722309	2	PLUG, Plastic
16	1729711	1	POD, with Cup Holder, LH
17	1722300	1	FUEL GAUGE
18	1722337	1	GROMMET
19	2860664	8	CAPSCREW, Hex Head Dog Point, 1/4-20 x 7/8
20	1931277	4	NUT, Hex Flange Whiz Lock, 5/16-18
21	1715917	1	CAP, Gas
22	1722340	1	TUBE & ELBOW ASSEMBLY
23	1654930	1	BUSHING, 3/8 x 9/16 x 5/8, Rubber
24	1722432	1	TANK, Fuel
25	1960636	8	NUT, Hex KEPS, 5/16-18
26	1722106C	1	DECK, Seat, Orange
26	1722106D	1	DECK, Seat, Red
27	1722108	1	POD, RH with 2 Slots
28	1722105C	1	TUNNEL, Orange
28	1722105D	1	TUNNEL, Red
29	1663752	2	SPACER, 25/64 x 5/8 x 3/16, Hardened
30	1930645	2	NUT, Hex Flange Two-Way Lock, 3/8-16
31	1924940	2	WASHER, 3/8
32	1960667	4	CAPSCREW, Hex Flange Whiz Lock Dog Point, 5/16-18 x 1

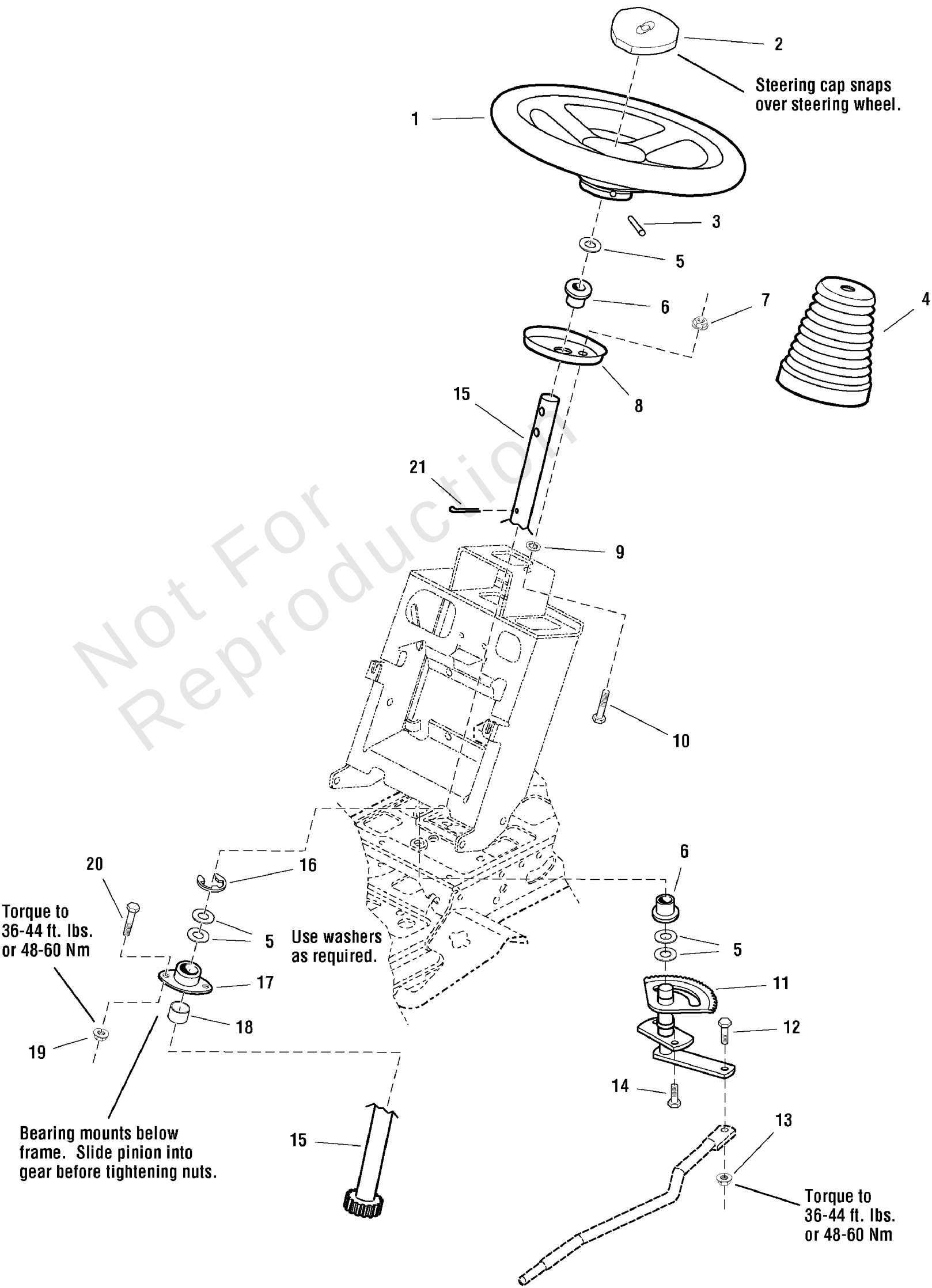
Footnotes:

Note:* Arm Rest Kit - 1686907

Steering Group - Manual Steering

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



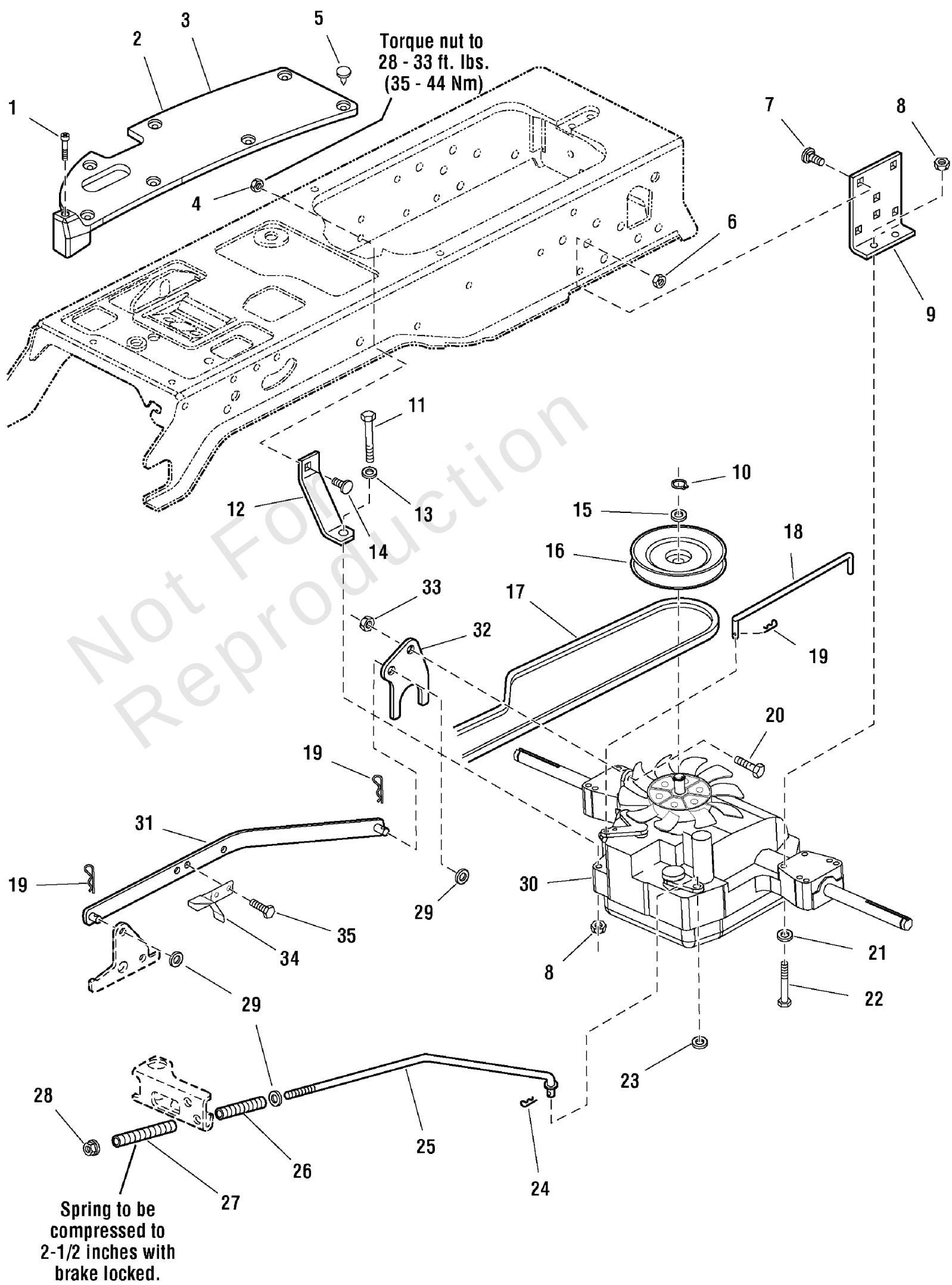
Steering Group - Manual Steering

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 - Tuff Torq K57

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



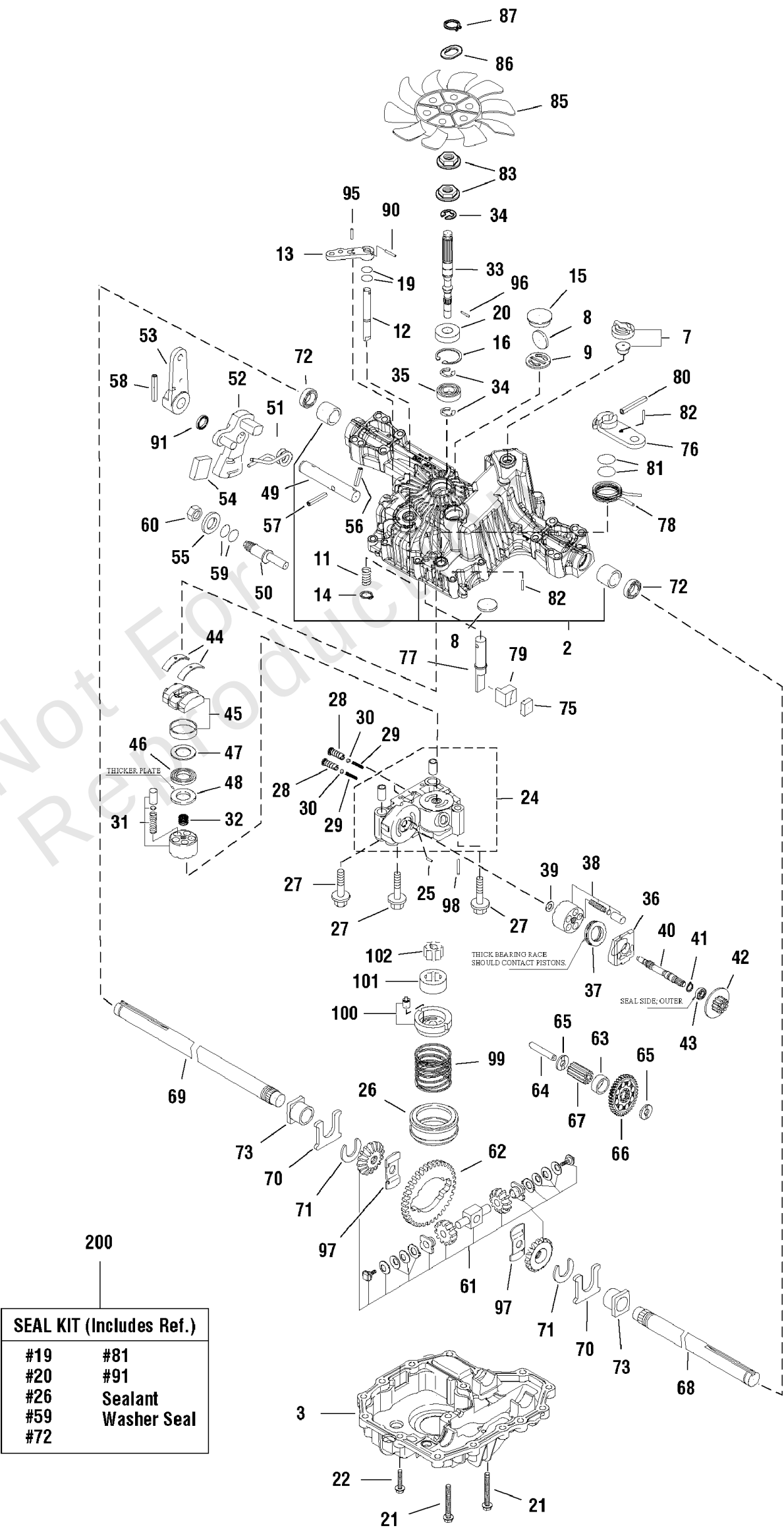
Transmission Group - Tuff Torq K57

REF NO	PART NO	QTY	DESCRIPTION
1	1960676SM	2	SCREW, Pan Head Torx Taptite, 1/4-20 x 1-1/4, Black
2	1722345SM	1	PAD, Footrest, LH, without Differential Lock
3	1722173SM	1	PAD, Footrest, RH
4	1960636SM	1	NUT, Hex KEPS, 5/16-18, Black
5	1704351SM	15	FASTENER, Panel
6	1960637SM	6	NUT, Hex KEPS, 3/8-16, Black
7	1931350SM	6	BOLT, RD HD SH SQ NK
8	1960686SM	5	NUT, Hex Flange ESNA, 5/16-18, Black
9	1721728ASM	2	SUPPORT, Transmission
10	1724316SM	1	RING, Snap, Transmission
11	1921978SM	1	CAPSCREW, Hex Head 5/16-18 x 2 G5
12	1721592ASM	1	STRAP, Torque
13	1960141SM	1	WASHER, 5/16
14	1931335SM	1	BOLT, Carriage, Short Neck, 5/16-18 x 1
15	1960027SM	2	WASHER, 1/2
16	1721666SM	1	PULLEY & HUB ASSEMBLY
17	1726841SM	1	V-BELT, Drive
18	1726806SM	1	ROD, Transmission Release
19	1722460SM	3	PIN, Quick
20	1921332SM	1	CAPSCREW, Hex Head, 5/16-18 x 2
21	1919326SM	4	WASHER, 5/16
22	1923141SM	4	CAPSCREW, Hex Head, 5/16-18 x 2-3/4, Black
23	1918267SM	1	WASHER, 15/32 x 15/16, Black
24	1918447SM	1	PIN, Cotter, Black
25	1726871SM	1	ROD, Brake
26	1722684SM	1	SPRING, Compression, 3-1/4" Long, Black
27	1729277SM	1	SPRING, Compression, 3-5/8" Long, Black
28	1960687SM	1	NUT, Hex Flange ESNA, 3/8-16, Black
29	1924940SM	3	WASHER, 3/8, Black
30	1722668SM	1	TRANSMISSION ASSEMBLY, K57, without Pulley
31	1732190ASM	1	CONTROL ARM ASSEMBLY
32	1724423ASM	1	ARM, Control
33	1960636SM	2	NUT, KEPS Lock, 5/16-18
34	1727215ASM	1	ACTUATOR, Switch
35	1924856SM	2	CAPSCREW, Hex Head Taptite, 5/16-18 x 1/2

Transmission SERVICE PARTS - Tuff Torq K57 (1722668)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



Transmission SERVICE PARTS - Tuff Torq K57 (1722668)

REF NO	PART NO	QTY	DESCRIPTION
2	1724951SM	1	*HOUSING ASSEMBLY, Upper
3	1724938SM	1	HOUSING, LOWER
7	1718052SM	1	VENT VALVE 15
8	1724279SM	2	MAGNET
9	1724280SM	1	*HOLDER, Magnet
11	1708684SM	1	SPRING
12	1724281SM	1	BYPASS SHAFT A
13	1720418SM	1	LEVER, Bypass
14	1718061SM	1	RING, Snap, 10
15	1724282SM	1	SEALING CAP, 30
16	1708650SM	1	RING, Snap, C 35
19	1708691SM	2	O-RING, 1A P10A
20	1724283SM	1	SEAL TC
21	1707789SM	14	SCREW, Tapping, 8 * 30
22	1724284SM	2	*SCREW, Tapping
24	1724939SM	1	CASE, CENTER
25	1718070SM	1	PIN, 3 * 9.8
26	1724954SM	1	FILTER
27	1720805SM	3	BOLT, 10 * 75
28	1724286SM	2	VALVE, IDS 1.0
29	1724287SM	2	IDS SPRING
30	1724288SM	2	*BALL, 3/16
31	1724940SM	1	*CYLINDER BLOCK ASSEMBLY
32	1724290SM	1	SPRING
33	1724941SM	1	SHAFT, PUMP
34	1718076SM	3	E-RING, 15
35	1708673SM	1	BEARING, 6202C3
36	1718077SM	1	MOTOR HOUSING
37	1724942SM	1	*BEARING, Thrust
38	1724289SM	1	BLOCK, CYLINDER
39	1718084SM	1	WASHER, 12 * 24 * 1
40	1724943SM	1	MOTOR SHAFT
41	1708672SM	1	RING, Snap, S15
42	1724944SM	1	BRAKE DISC/MOTOR GEAR (10T)
43	1718083SM	1	BEARING, 6202UC3
44	1718089SM	2	THRUST METAL
45	1720426SM	1	SWASH PLATE ASSEMBLY
46	1718088SM	1	THRUST PLATE, B
47	1718086SM	1	THRUST BEARING K81105
48	1718087SM	1	THRUST PLATE, A
49	1724343SM	1	*SHAFT, Control
50	1724344SM	1	*FULCRUM, ECCENTRIC
51	1724345SM	1	SPRING, Torsion, Standard
52	1724346SM	1	LEVER, Control
53	1724347SM	1	CONTROL LEVER C
54	1724348SM	1	JERKY PLATE
55	1708689SM	1	WASHER, 12
56	1724349SM	1	COTTER PIN, 1/8 * 3/4

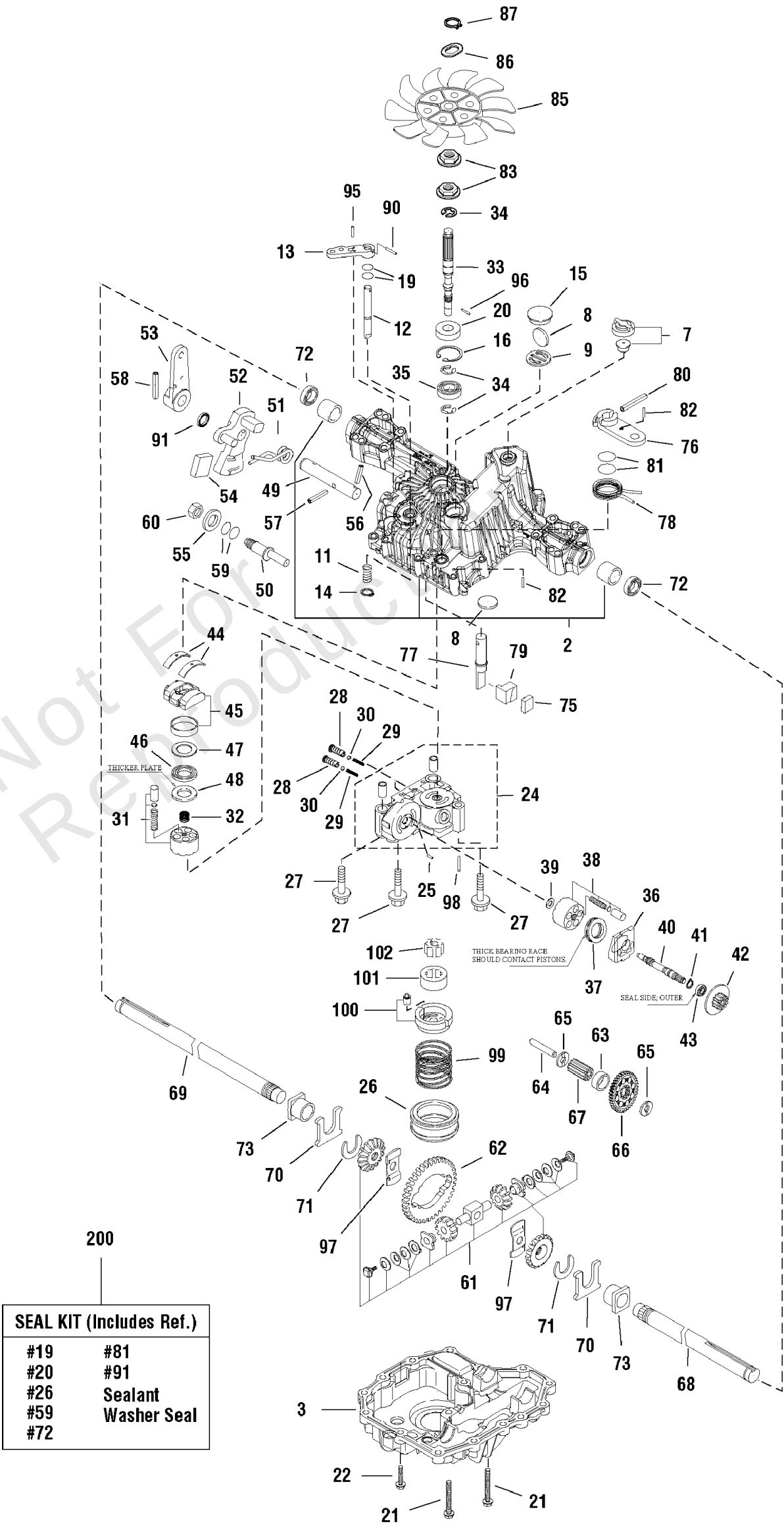
Footnotes:

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 K57 (1722668)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



Transmission SERVICE PARTS - Tuff Torq K57 (1722668)

REF NO	PART NO	QTY	DESCRIPTION
57	1724296SM	1	SPRING PIN 6 * 36
58	1707879SM	1	O-RING 1A P14
59	1718100SM	2	ROLL PIN 6 * 40
60	1708692SM	1	NUT 12
61	1724955SM	1	GEAR & PINION ASSEMBLY
62	1724945SM	1	*GEAR, FINAL CONTR TRAC
63	1724946SM	2	COLLAR, PINION
64	1724947SM	1	*SHAFT, Reduction
65	1724948SM	2	WASHER, 12 * 32 * 3.2
66	1724949SM	1	REDUCTION GEAR (38T)
67	1724950SM	1	FINAL PINION (10T)
68	1724303SM	1	AXLE SHAFT, Left
69	1724304SM	1	AXLE SHAFT, Right
70	1718112SM	2	THRUST WASHER
71	1718113SM	2	RING, 17
72	1718111SM	2	SEAL, 19 * 32 * 8 -(For this part only contact B&S Tech support)
73	1718110SM	2	BUSHING, 19 * 25
75	1724305SM	1	BRAKE SHOE
76	1724306SM	1	BRAKE LEVER
77	1724307SM	1	SHAFT, Brake
78	1724308SM	1	RETURN SPRING B
79	1724309SM	1	BRAKE ACTUATOR
80	1724310SM	1	SPRING PIN, 5 * 32
81	1708690SM	2	O-RING 1A P12
82	1724311SM	2	SPRING PIN 4 * 16
83	1724312SM	2	SPLINE COLLAR
85	1736306SM	1	FAN
86	1724315SM	1	WASHER, Wave
87	1724316SM	1	RING, Snap
90	1720421SM	1	PIN 3.0A x 20
91	1724318SM	1	OIL SEAL 16 * 22 * .03
95	1707839SM	1	SPRING PIN, 3.0A * 20
97	1724956SM	2	WASHER, THRUST DIFF
98	1724958SM	2	PIN, 3.0A x 18
99	1724957SM	1	*SPRING, Charge
100	1724953SM	1	CHARGE PUMP CASE ASSEMBLY
200	1727542SM	1	SEAL KIT (K57A & K)

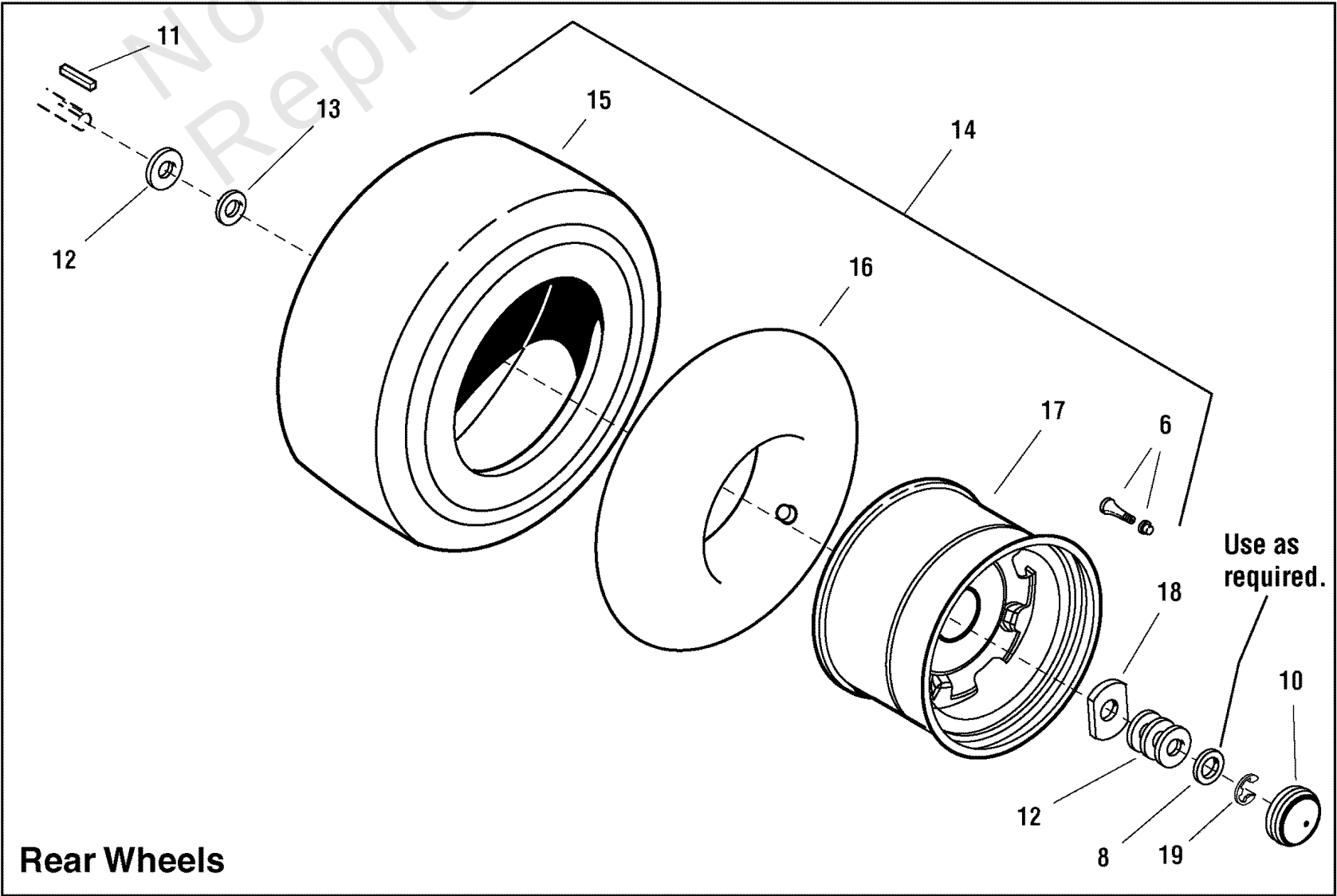
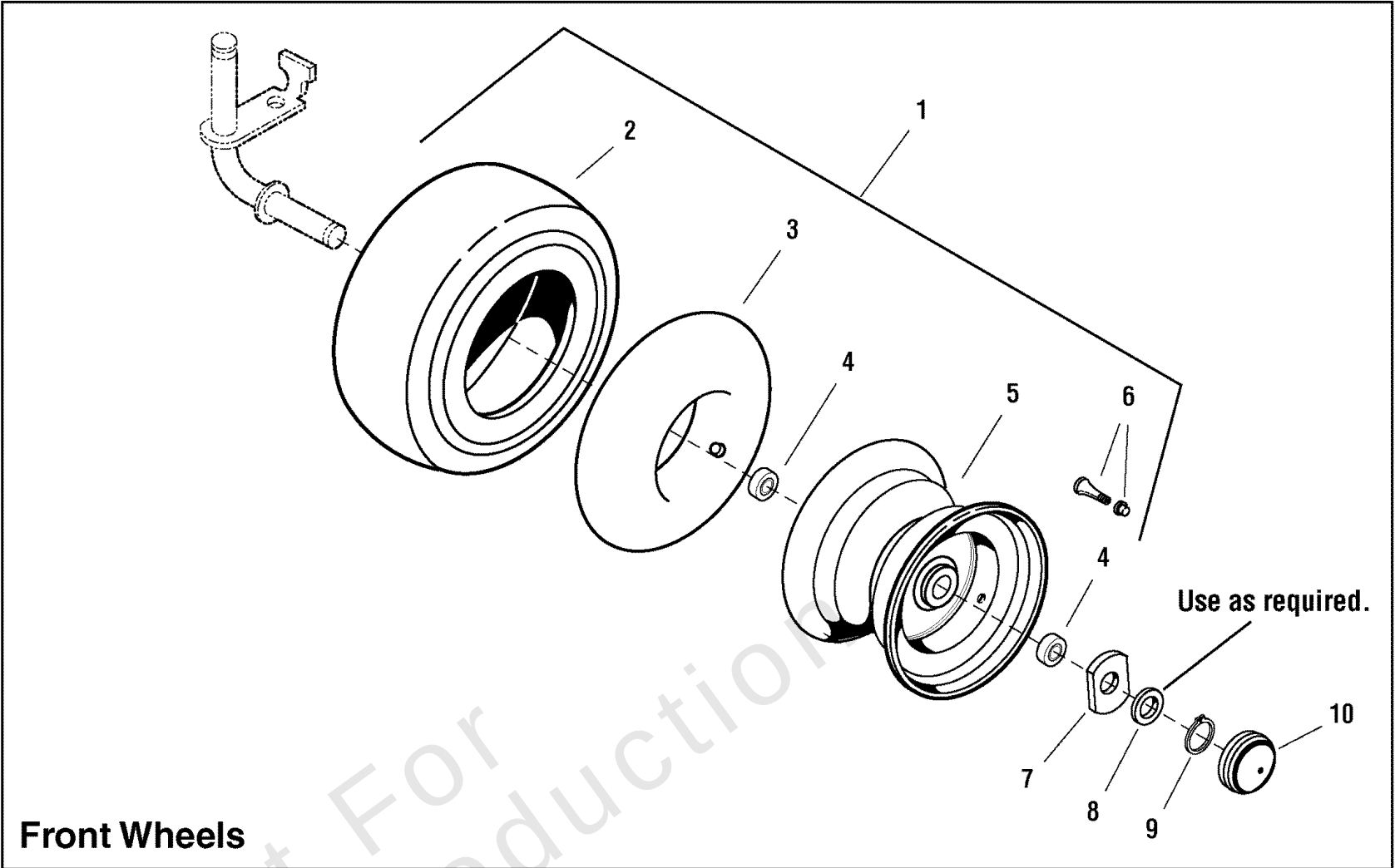
Footnotes:

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)

Wheels & Tires Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2690278



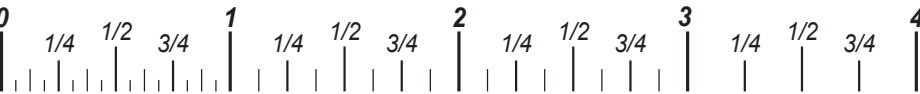
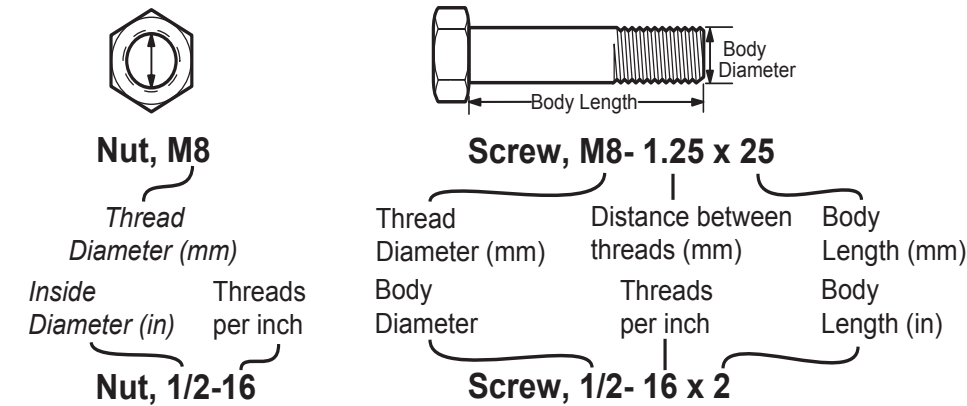
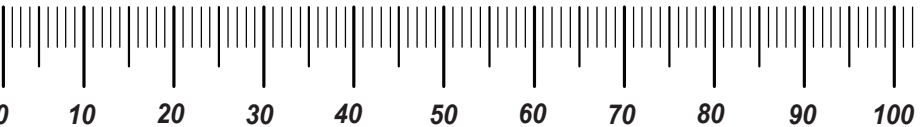
Wheels & Tires Group

REF NO	PART NO	QTY	DESCRIPTION
1	1732202	2	WHEEL & TIRE ASSEMBLY, Front, (Includes Ref. Nos. 2, 3, 4, 5, & 6)
2	1723882	1	TIRE, 15 x 6, Super Turf
3	1664090	1	TUBE, Tire, Front, 4.10/3.50
4	1717056	2	BEARING, Ball
5	1722837	1	WHEEL, 4-1/2" x 6"
6	2172353	4	VALVE STEM & CAP ASSEMBLY
7	1722726	2	WASHER, Flat 1 (Double D)
8	1919394	4	WASHER, 1, (As Required for All Front)
9	2832577	2	RING, Retaining, External #98
10	1722676	4	CAP, Hub, Gray
11	1729279	2	KEY, Parellel, 3/16 x 3/16 x 1-1/2
11	5048409	2	KEY, 3/16" SQ. X 2-1/2
12	2860202	4	WASHER, 3/4
13	1960114	2	WASHER
14	1726491	2	WHEEL & TIRE ASSEMBLY, (Includes Ref. Nos. 6, 15, 16 & 17)
15	1727136	1	TIRE, 22 x 10, 10 Super Turf
16	2173477	1	TUBE, Tire, 20 x 8, Rear
17	1726492	1	WHEEL, 7 x 9.97, W/ 3/4 OD Shaft
18	1722717	2	WASHER, Special
19	2827794	2	RING, "E" External

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).

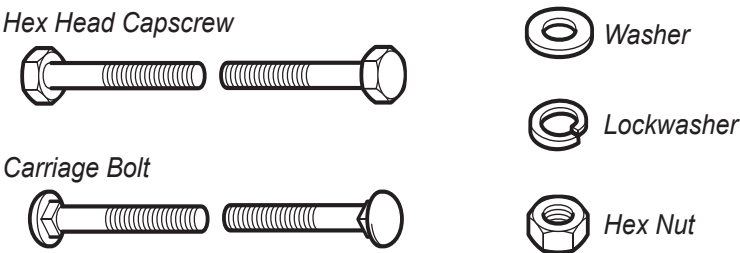
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

