



Parts Manual

Mfg. No: 1694288

Coronet, 13HP Hydro

1690819 - Dethatcher, Lawn 35".....	
1692125 - Cart, Dump (10 Cu. Ft.).....	
1692149 - Catcher, Clean Sweep Twin, 30".....	
1692150 - Catcher, Clean Sweep Twin, 34".....	
1692470 - Grass Mulcher Kit, 34".....	
1692679 - Dethatcher Adapter.....	
1692545 - 34" Mower Deck.....	
1692543 - 30" Mower Deck.....	
1694053 - 30" Mower Deck.....	

Not For
Reproduction

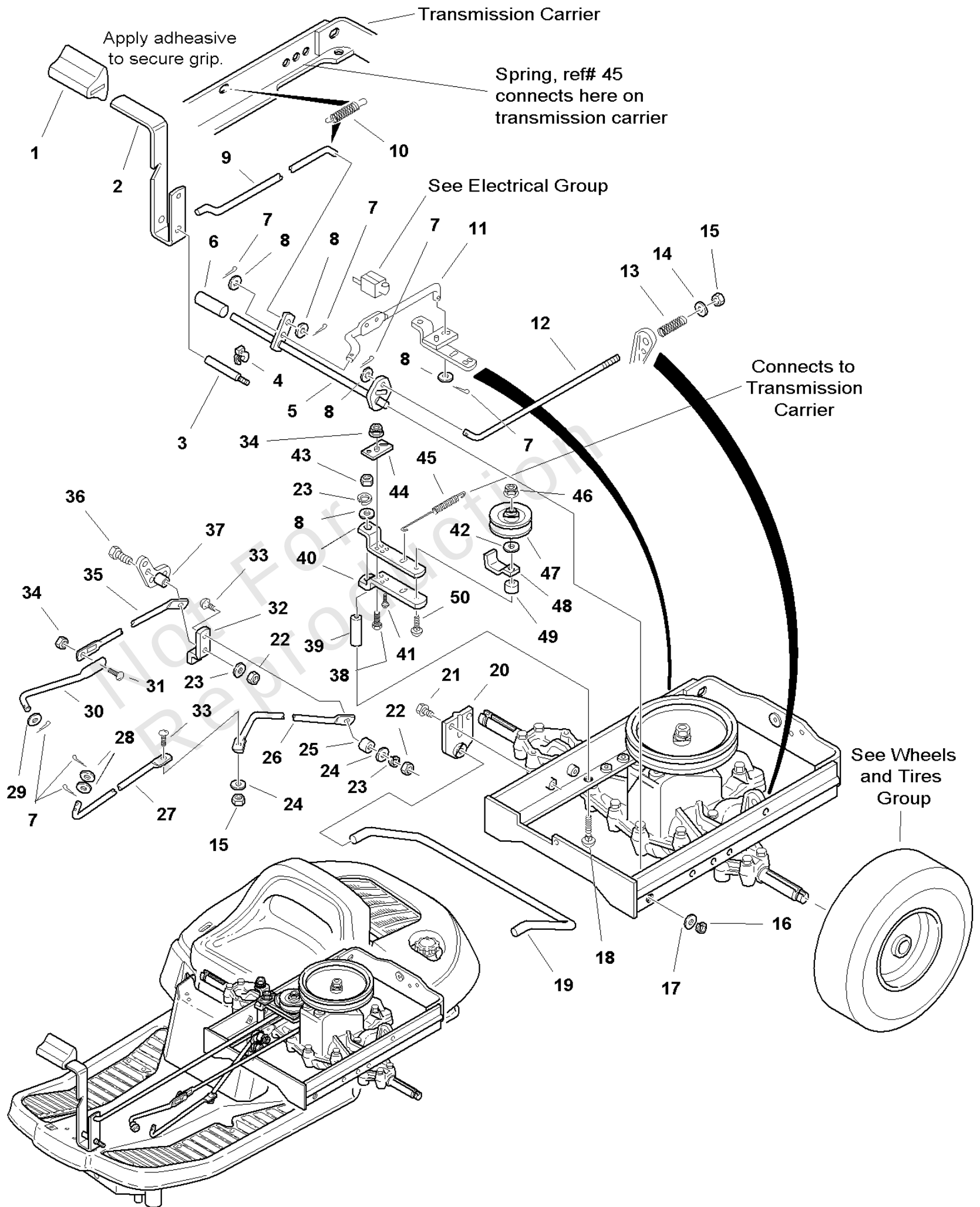
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Controls Group - Hydro Transaxle - Hydro-Gear 311-0500

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



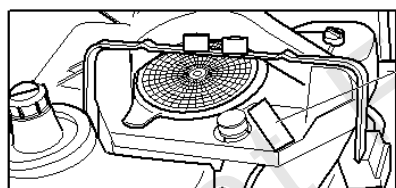
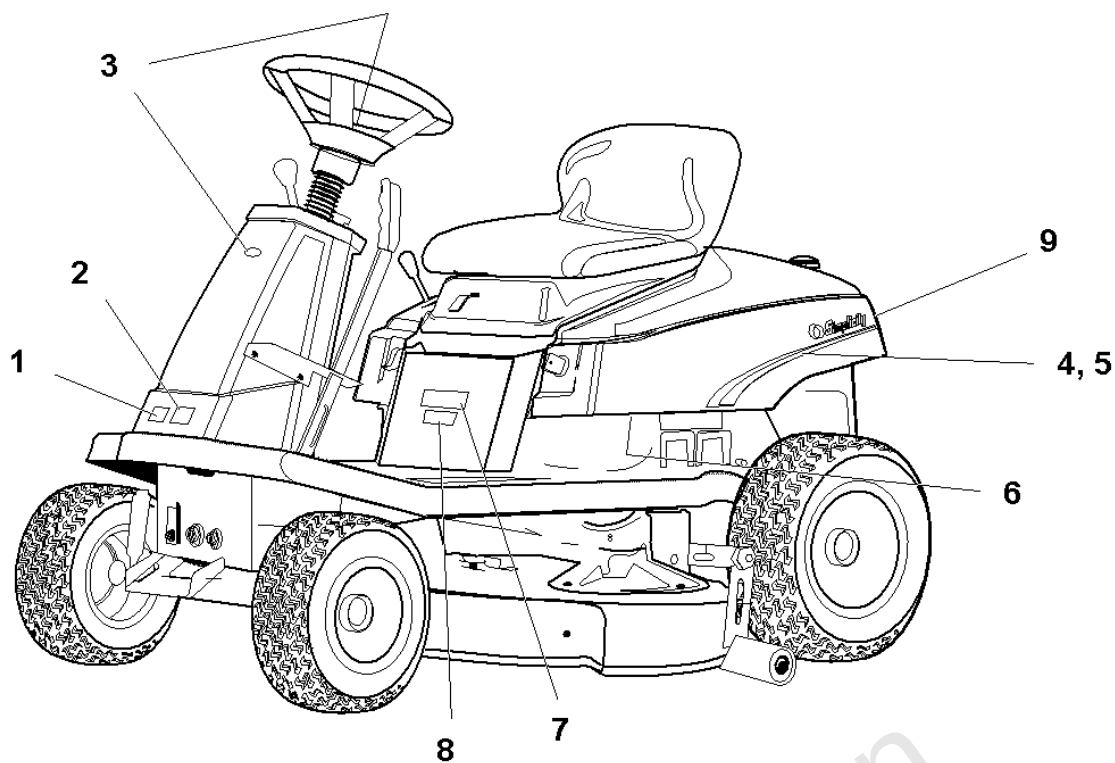
Controls Group - Hydro Transaxle - Hydro-Gear 311-0500

REF NO	PART NO	QTY	DESCRIPTION
1	1704849SM	1	PAD, Pedal
2	1723348ASM	1	LEVER, Clutch
3	1708409SM	1	PIVOT, Brake
4	1708554SM	1	KLIP RING, 3/4
5	1709231SM	1	PIVOT SHAFT ASSEMBLY
6	1709850SM	1	TUBE
7	1918447SM	6	COTTER PIN, 7/64 x 3/4
8	1919326SM	4	WASHER, 5/16
9	1706260SM	1	ROD, Clutch, Front
10	2159106SM	1	SPRING, Return
11	1709220SM	1	ROD, Clutch, Rear
12	1709224SM	1	ROD, Brake
13	1709097SM	1	SPRING, Compression
14	1960044SM	1	WASHER-0.312(0.33IDX1
15	1919438SM	2	NUT, Hex, Lock, 5/16-18
16	1703805SM	1	KLIPRING, 1/2
17	1924361SM	1	WASHER, Plain
18	1931342SM	1	CARRIAGE BOLT, 5/15-18 x 2-3/4
19	1708366SM	1	TORSION BAR
20	1708367SM	2	BRACKET, Torsion Bar
21	1924856SM	4	CAPSCREW Taptite, 5/16-18 x 1/2
22	1935048SM	2	NUT, Hex Flange Lock, 5/16-18
23	1917356SM	3	LOCKWASHER, 5/16
24	1919381SM	2	WASHER, 5/16
25	1710437SM	1	SPACER
26	1709223SM	1	ROD, Control
27	1709228SM	1	ROD, Shift, Front
28	1924359SM	2	WASHER, Plain, 1/2 x 1 x 1/32
29	1924940SM	1	WASHER, Plain, 13/32 x 7/8 x 5/64
30	1709217SM	1	ROD, Return, Front
31	1931318SM	1	CARRIAGE BOLT, 1/4-20 x 7/8
32	1709226SM	1	LEVER, Control
33	1960223SM	2	BOLT-RD HD SH SQ NK 5
34	1930641SM	3	NUT, Hex, Flange Whizlock, 1/4-20
35	1709244SM	1	ROD, Return, Rear
36	1922127SM	1	SCREW, Hex Head Cap, 5/16-18 x 1 3/4
37	1709227SM	1	SPACER
38	1923341SM	1	CAPSCREW, Hex Head, 1/4-20 x 3/4
39	1709345SM	1	SPACER, Pivot
40	1709221SM	2	CLEVIS, Idler Bracket
41	1927429SM	1	CAPSCREW, Taptite, 1/4-20 x 5/8
42	1918266SM	1	WASHER
43	1917372SM	1	NUT, Hex, 5/16-18
44	1709222SM	1	PLATE
45	1666759SM	1	SPRING
46	1960251SM	1	NUT, Hex, Jam, Lock, 3/8-16
47	1668827SM	1	PULLEY, Idler
48	1708352ASM	1	GUARD, Spring
49	1674440SM	1	SPACER, 25/64 x 5/8 x 11/16
50	1931355SM	1	CARRIAGE BOLT, 3/8-16 x 2-1/4

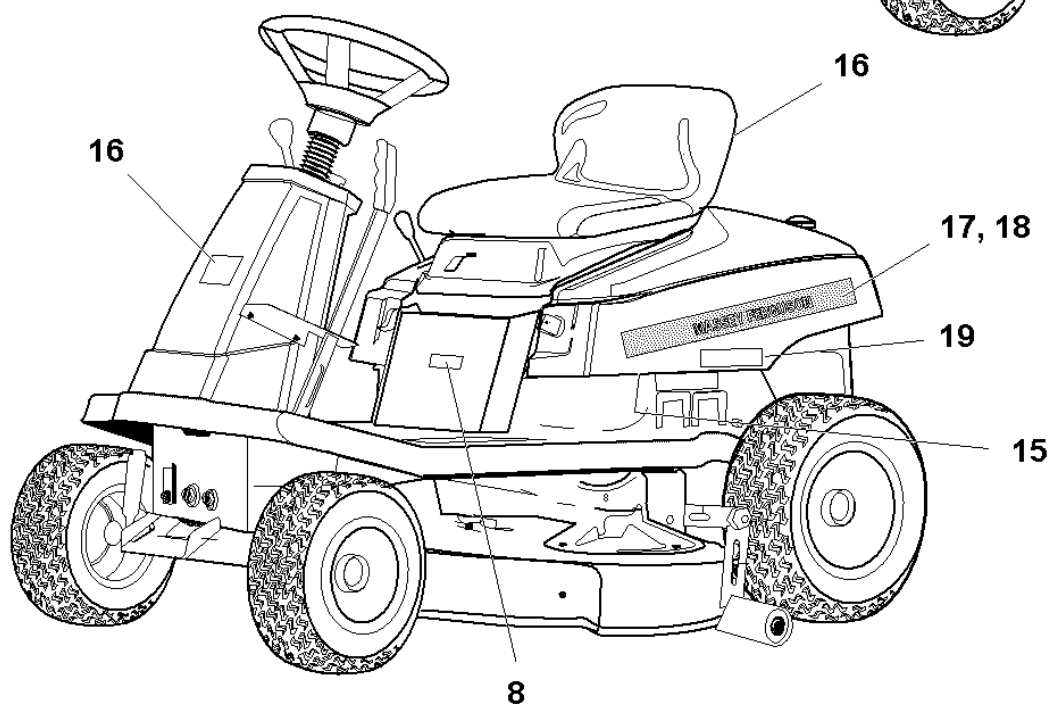
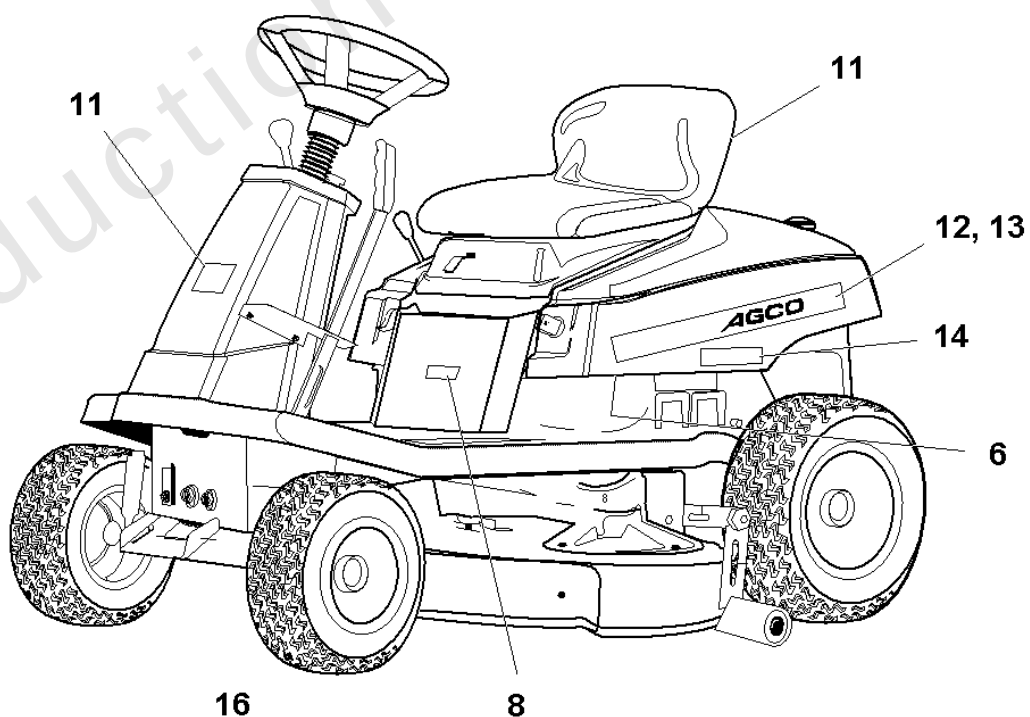
Decals Group - Brand & Model

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



Air Duct behind engine.



Decals Group - Brand & Model

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	DECAL, C E, (Export Only)
3	1717692SM	2	DECAL, Icon, Simplicity
4	1722768SM	1	DECAL, Seat Deck, LH, (New Style)
5	1722767SM	1	DECAL, Seat Deck, RH, (New Style)
6	1720454SM	1	DECAL, Touch-up Paint, Deep Orange & Charcoal Gray
7	1722769SM	1	DECAL, "CORONET"
8	1717689SM	1	DECAL, Model, Coronet, 11 - 5 Speed
8	1717691SM	1	DECAL, Model, Coronet, 14 - Hydro
8	1722777	1	DECAL, Model, Coronet, 10.5 - Hydro
8	1722778SM	1	DECAL, Model, Coronet, 13 - Hydro
8	1722549SM	1	DECAL, 16 HP
9	1722551SM	2	DECAL, Simplicity
10	1716121	1	DECAL, Briggs & Stratton, 11 HP
10	1724468SM	1	DECAL, Briggs & Stratton, 13 HP, INTEK
10	1716122	1	DECAL, Briggs & Stratton, 10.5 HP
10	1717118	1	DECAL, Briggs & Stratton, 13 HP
10	1717161	1	DECAL, Kohler, 14 HP
10	1717162SM	1	DECAL, Kohler, 16 HP
11	1708926SM	2	DECAL, Logo, AGCO
12	1722557SM	1	DECAL, Seat Deck Stripe, LH (411G)
12	1717718	1	DECAL, Seat Deck Stripe, LH (414H)
12	1722853SM	1	DECAL, Seat Deck AGCO, LH
13	1722558SM	1	DECAL, Seat Deck Stripe, RH (411G)
13	1717717	1	DECAL, Seat Deck Stripe, RH (414H)
13	1722854SM	1	DECAL, Seat Deck AGCO, RH
14	1722855	2	DECAL, Model, 411
14	1722856SM	2	DECAL, Model, 413H
14	1722857SM	2	DECAL, Model, 416
15	1725072SM	1	DECAL, Touch-up Pain, Red & Gray
16	1714363SM	2	DECAL, Logo, Massey Ferguson
17	1714366	1	DECAL, Seat Deck Stripe, LH (2413H)
17	1716126SM	1	DECAL, Seat Deck Stripe, LH (2411G)
17	1717727	1	DECAL, Seat Deck Stripe, LH (2414H)
17	1722851SM	1	DECAL, Seat Deck, LH, (New Style)
18	1714367	1	DECAL, Seat Deck Stripe, RH (2413H)
18	1716125SM	1	DECAL, Seat Deck Stripe, RH (2411G)
18	1717726	1	DECAL, Seat Deck Stripe, RH (2414H)
18	1722852SM	1	DECAL, Seat Deck, RH, (New Style)
19	1722858SM	2	DECAL, Model, 2411
19	1722859SM	2	DECAL, Model, 2413
19	1722860SM	2	DECAL, Model, 2416

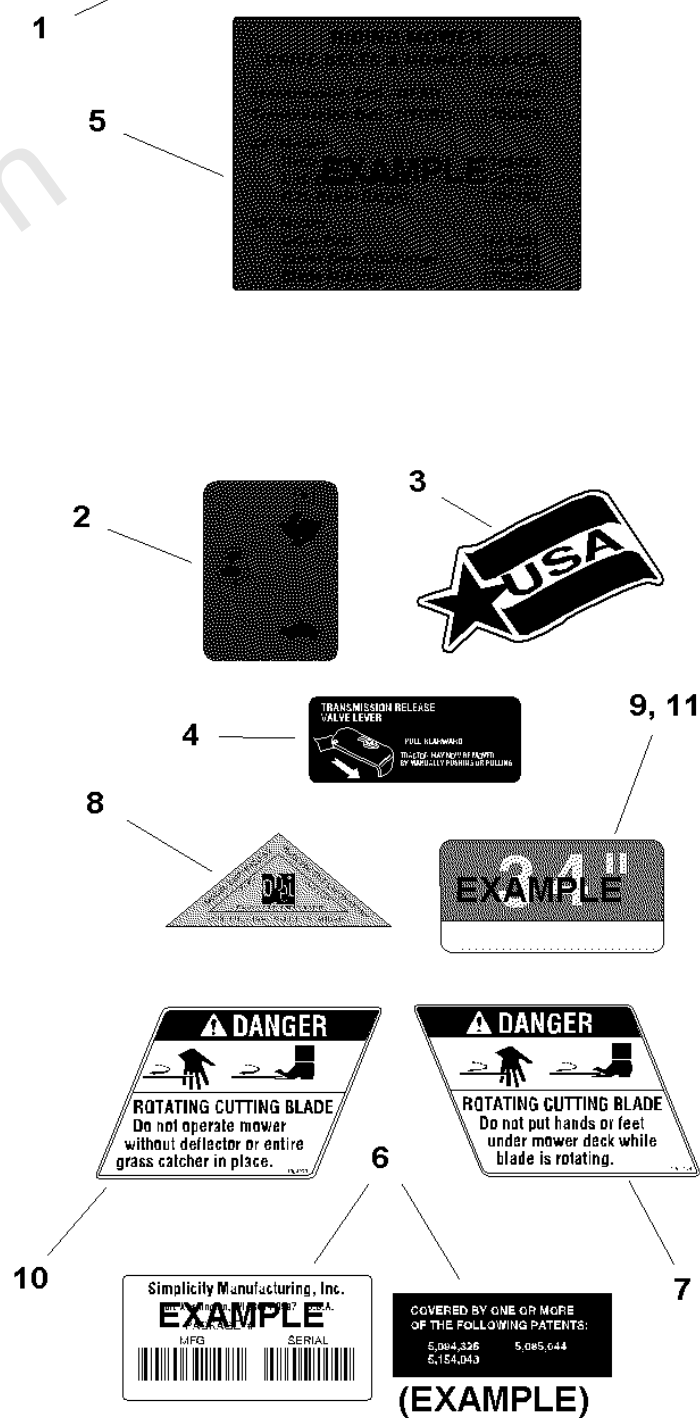
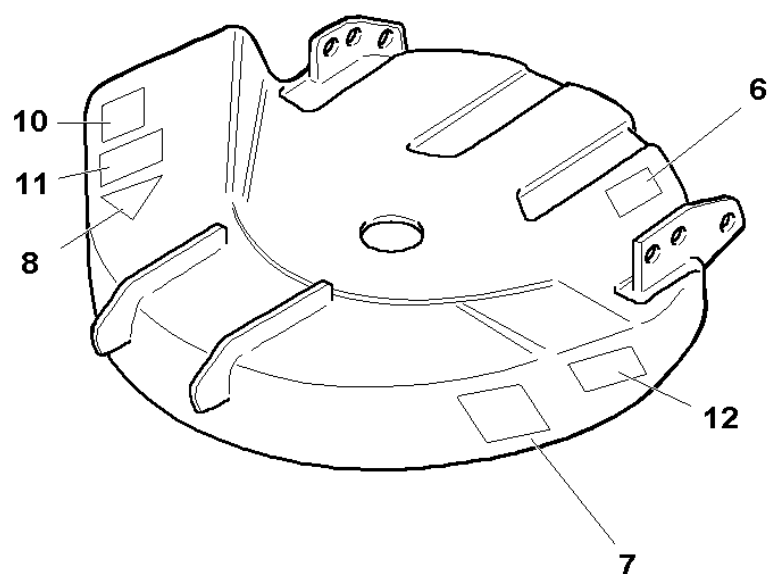
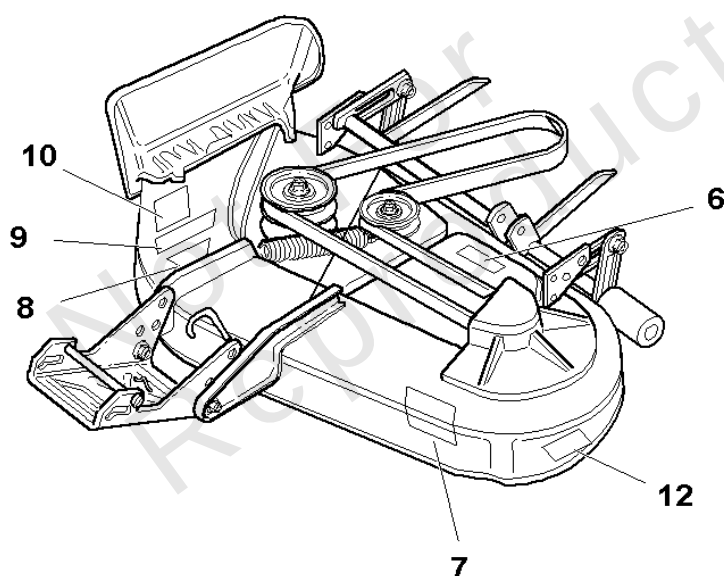
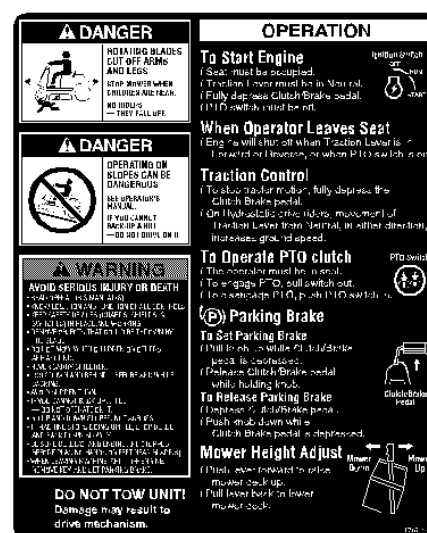
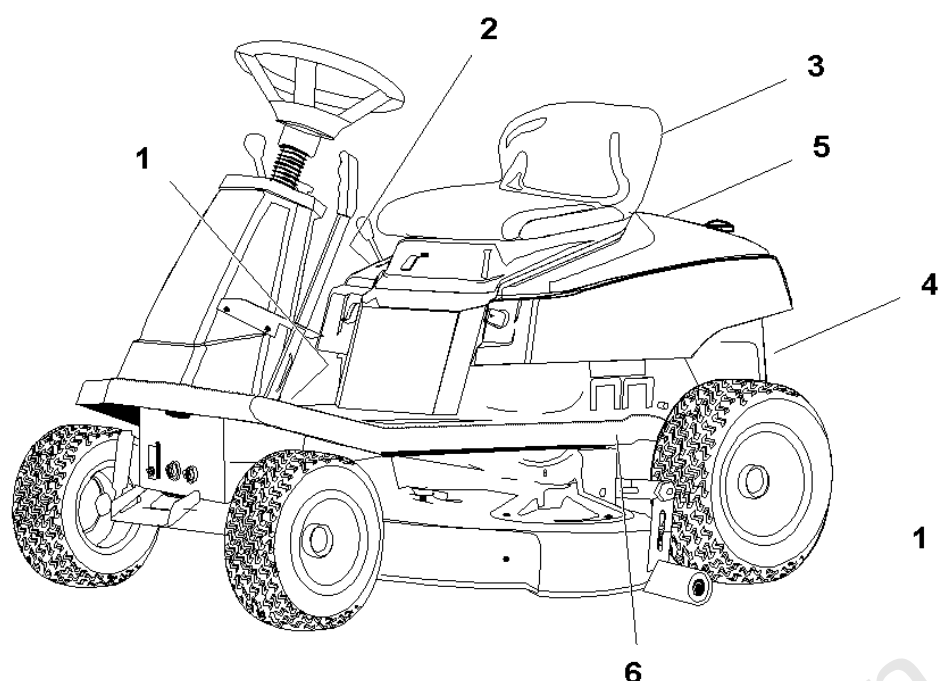
Footnotes:

Note:* Not a servicable part.

Decals Group - Common & Safety

Note: Unless noted otherwise, use the standard torque specifications

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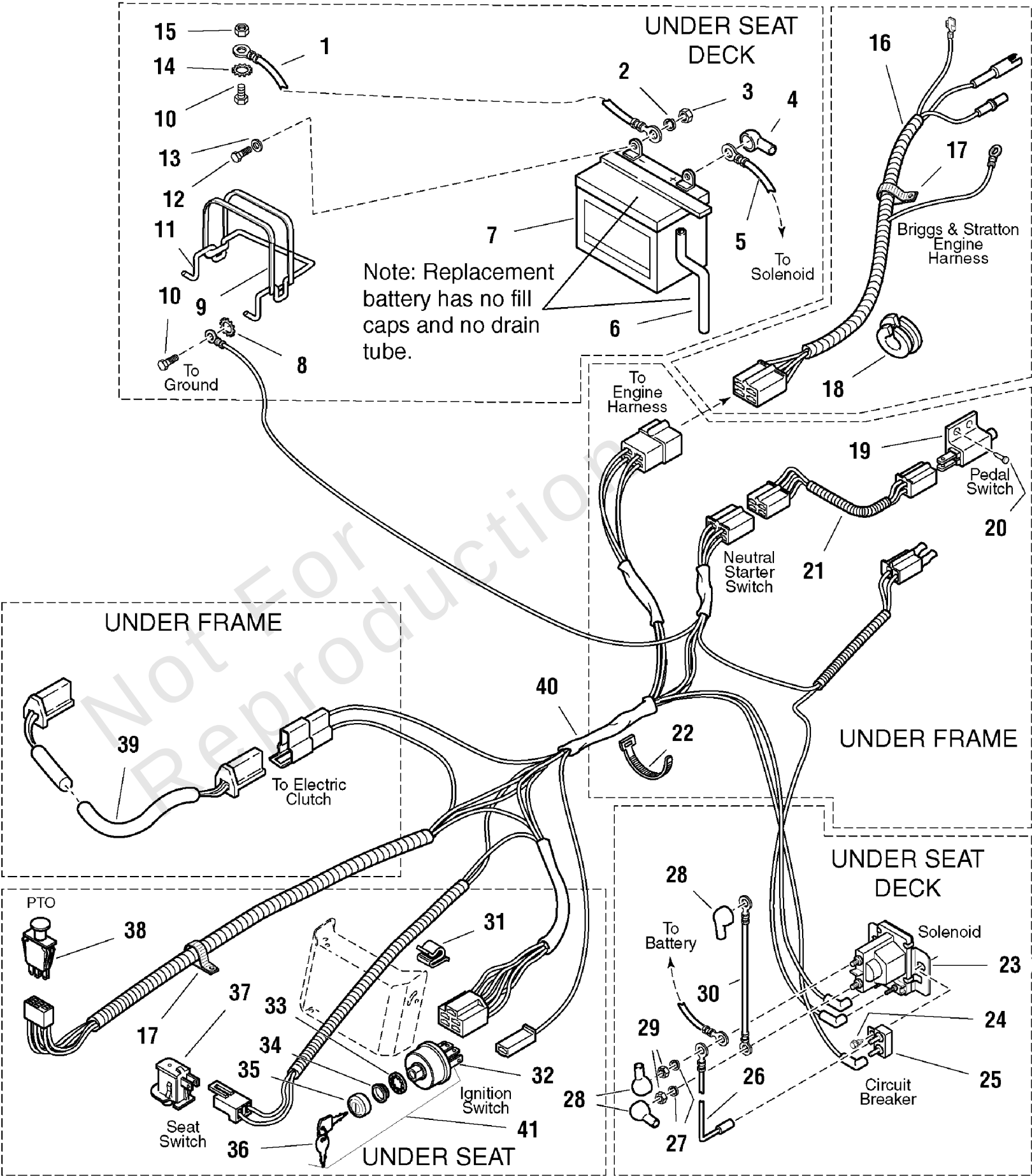


Decals Group - Common & Safety

REF NO	PART NO	QTY	DESCRIPTION
1	1713490SM	1	DECAL, Operating Instructions
2	1708880SM	1	DECAL, Throttle/Choke
2	1714435SM	1	DECAL, Throttle/Choke (Red)
3	1708927	1	DECAL, USA (Seat Back)
4	1708918SM	1	DECAL, Transmission Release (Hydro models only)
5	1708639SM	1	DECAL, Belt & Blade Replacement
6	-----	1	I.D. PLATE (Not Serviced)
7	1704276SM	1	DECAL-DANGER DO NOT P
8	-----	1	DECAL, OPEI, (Not Serviced)
9	1722786SM	1	DECAL, Cutting Width - 34", Black, Blue & Gray
9	1722786SM	1	DECAL, Cutting Width - 34", Silver on Black
10	1704277SM	1	DECAL, Danger, Chute In Place
11	1722785SM	1	DECAL, Cutting Width - 30", Black, Blue & Gray
11	1722785SM	1	DECAL, Cutting Width - 30", Silver on Black
12	1722771SM	1	DECAL, Free Floating Mower

Footnotes:

Note:* Not a servicable part.



Electrical Group

REF NO	PART NO	QTY	DESCRIPTION
1	1707056SM	1	CABLE, Battery to Ground
2	2816964SM	2	WASHER, Lock, 1/4
3	2816622SM	2	NUT, Hex 1/4-20
4	1709086SM	1	BOOT, Insulator
5	1727668SM	1	CABLE, Battery to Solenoid (Kohler Models)
5	1713163SM	1	CABLE, Battery to Solenoid (Briggs & Stratton Models)
6	1612103SM	1	TUBE, Vent (Early Models Only)
7	1685215SM	1	BATTERY,12V
8	2820426SM	1	WASHER, Lock, External Tooth, 5/16
9	1665872SM	1	STRAP, Battery
10	1950018SM	2	SCREW, M8 - 1.25 x 20mm, Hex Head
11	1667805SM	1	BRACE, Battery
12	2823341SM	2	CAPSCREW, Hex Head, 1/4-20 x 3/4
13	2821319SM	2	WASHER
14	2820427SM	1	WASHER, Lock, External Tooth, 3/8
15	2816950SM	1	NUT, Hex, 3/8-16
16	1718948SM	1	WIRE ASSEMBLY, Harness to Engine (Briggs & Stratton Only)
17	1704873SM	2	CLAMP, WIRE, .312DIA
18	1676648SM	1	GROMMET (11 HP 5-Speed Models Only)
19	1717050SM	1	SWITCH-PUSH BUTT
20	1722035SM	2	POP-RIVET
21	1718949SM	1	WIRE ASSEMBLY, Neutral Switch (11 HP Coronet Only)
22	1701011SM	2	TIE, Self-Locking
23	1686981SM	1	SOLENOID
24	1925003SM	2	CAPSCREW, Hex Head, Taptite, 1/4-20 x 1/2
25	1665238SM	1	BREAKER-CIRCUIT
26	1665237SM	1	WIRE ASSEMBLY
27	1917356SM	1	LOCKWASHER, 5/16
28	2122023SM	3	COVER, Terminal
29	2820263SM	2	NUT, Hex, 5/16-24
30	1709088SM	1	CABLE, Solenoid to Starter
31	1715956SM	2 (1)	CLIP (14 HP Hydro Qty=1)
32	-----	1	SWITCH, Ignition (6 pole)
33	1960547SM	1	LOCKWASHER-INTERNAL
34	1717549SM	1	NUT
35	1717550SM	1	COVER, Keyswitch
36	1717163SM	1	KEY-IGNITION INDAK
37	1718981SM	1	SWITCH, Seat
38	1722887SM	1	SWITCH-PTO PUSH
39	1724873SM	1	WIRE ASSEMBLY, Clutch
40	1718946SM	1	HARNESS, Wiring
41	1686734SM	1	IGNITION SWITCH

Footnotes:

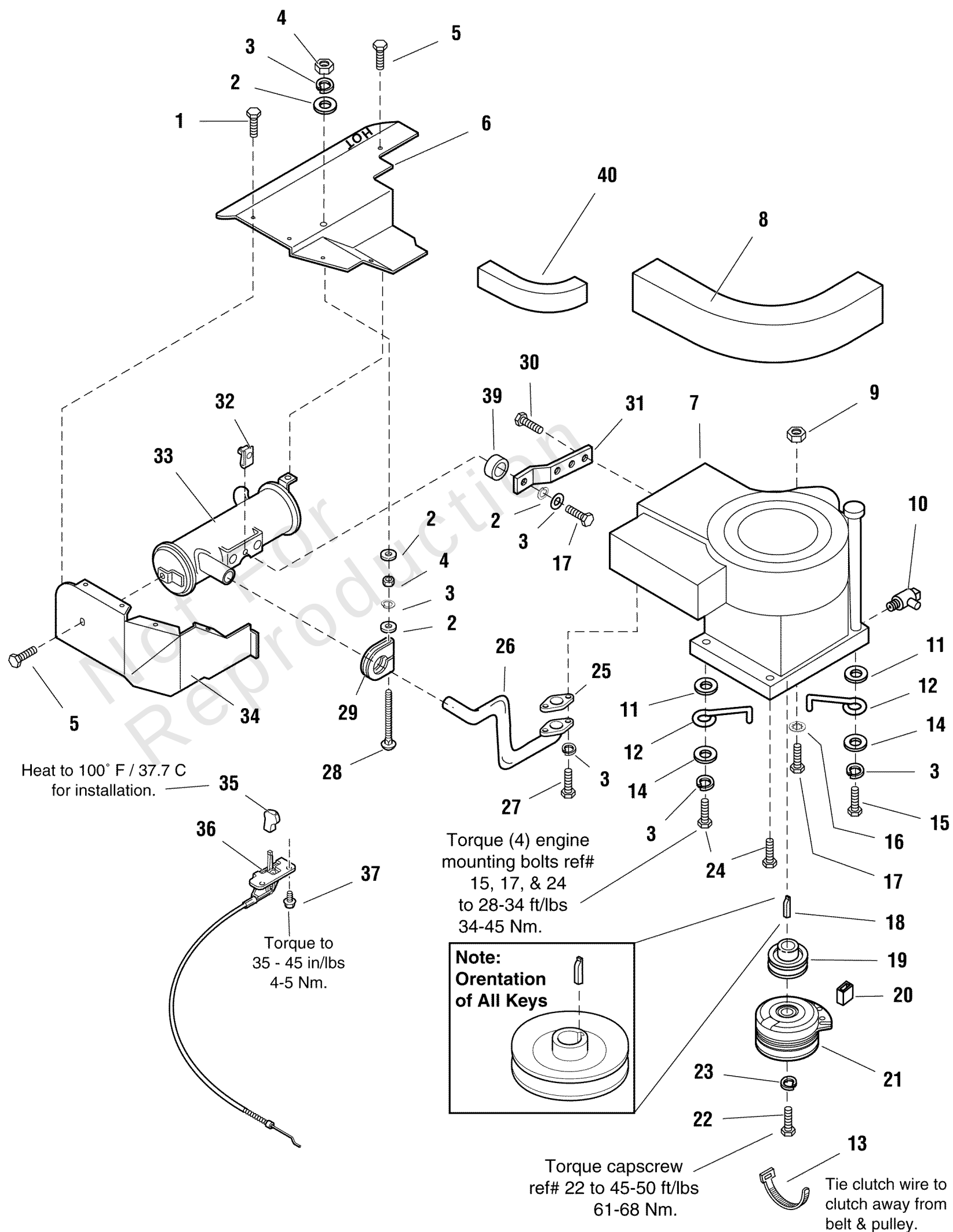
Note:* If connection blades do not line up use 1686620 Switch Kit. (Contains switch, adaptor & instruction sheet.)

Note:** See reference number 41. Sold as assembly.

Engine Group - Electric Clutch - 13HP Briggs & Stratton, INTEK

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



Engine Group - Electric Clutch - 13HP Briggs & Stratton, INTEK

REF NO	PART NO	QTY	DESCRIPTION
1	1960720SM	5	CAPSCREW, Self-Tapping, #10-16 x 1/2
2	1919326SM	4	WASHER, 5/16
3	1917356SM	8	LOCKWASHER, 5/16
4	1917372SM	2	NUT, Hex, 5/16-18
5	1924856SM	2	CAPSCREW, Hex Head, Taptite, 5/16-18 x 1/2
6	1724426ASM	1	DUCT, R.H., Top
7	-----	1	ENGINE, Briggs & Stratton, 13HP, Model 21A907922858
8	1709055SM	1	SEAL, Air Inlet
9	1931277SM	3	NUT, Flange, Whizlock, 5/16-18
10	1708405SM	1	VALVE, Shut-Off
11	1933263SM	2	WASHER, Plain
12	1704419SM	2	BELT STOP
13	1701011SM	1	TIE, Self Locking
14	1922755SM	2	WASHER, 3/8
15	2860361SM	1	CAPSCREW, Taptite, 3/8-16 x 2
16	1933988SM	1	PUSH NUT, 5/16-18
17	1933689SM	1	SCREW, 5/16-18 x 1-1/2, Hex Flange, Whiz Lock
18	2171241SM	1	KEY, Hi-Pro
19	1709218SM	1	PULLEY, Engine
20	1708537SM	1	SLEEVE, Clutch Anchor
21	1686882SM	1	CLUTCH, Electric, Kit
22	1960370SM	1	CAPSCREW, Hex Head, 7/16-20 x 2-1/2
23	1918199SM	1	LOCKWASHER, 7/16
24	1930598SM	2	CAPSCREW, Taptite, 3/8-16 x 1-1/2
25	1650670SM	1	GASKET, Muffler
26	1724466SM	1	PIPE, Exhaust
27	1936228SM	2	CAPSCREW, Socket Head, 5/16-18 x 3/4
28	1960748SM	1	CARRIAGE BOLT, 5/16-18 x 3-1/4
29	1676183SM	1	CLAMP, Muffler
30	1960568SM	2	CAPSCREW, Hex Head, 1/4-20 x 7/8
31	1724428ASM	1	SUPPORT, Muffler
32	1935255SM	1	NUT, SPEED, 5/16-18 L
33	1708416SM	1	MUFFLER ASSEMBLY
34	1724427ASM	1	DUCT, L.H.
35	1713846SM	1	KNOB, Throttle
36	1714040SM	1	THROTTLE CONTROL ASSEMBLY
37	1960536SM	2	SCREW, HEX WSHR HD PL
38	1708442SM	1	STOP, Throttle (Not Pictured, Export Models Only)
39	2157081SM	1	SPACER
40	1718648SM	1	SEAL, Edging

Footnotes:

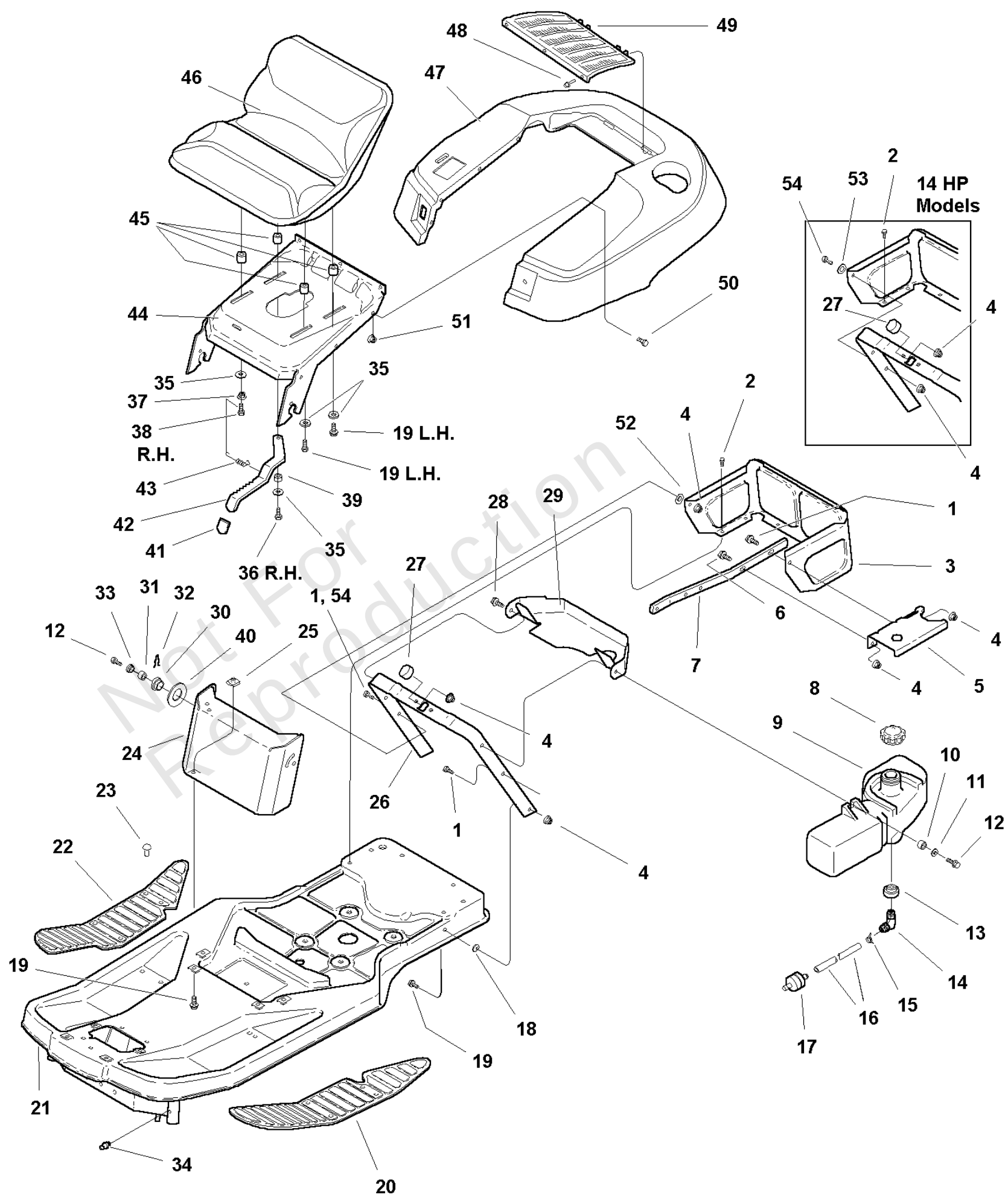
Note:** Key MUST be installed as shown to prevent damage to electric clutch.

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

Frame & Fuel System Group

Note: Unless noted otherwise, use the standard torque specifications

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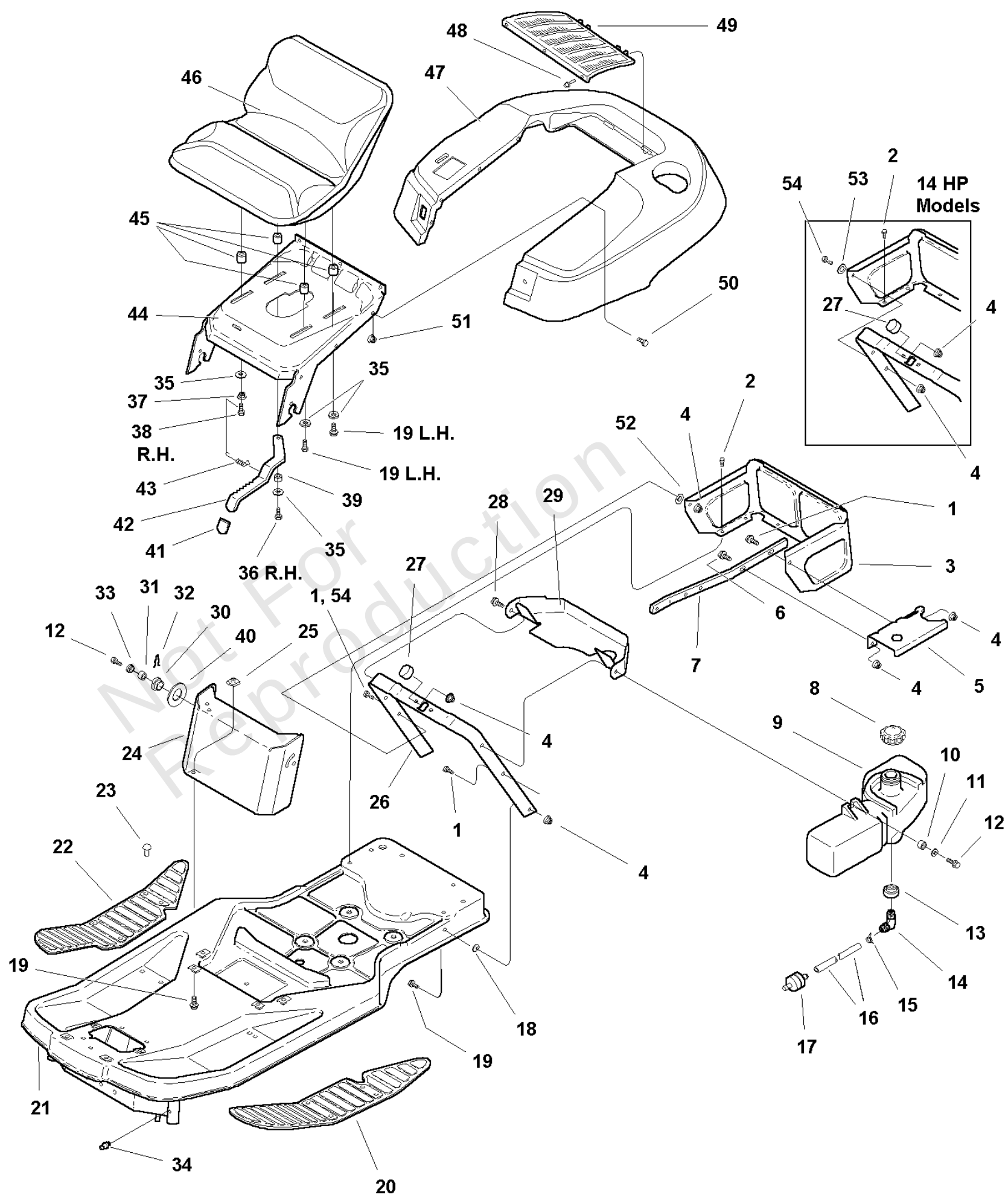
Frame & Fuel System Group

REF NO	PART NO	QTY	DESCRIPTION
1	703570	3	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
2	1925003SM	6	CAPSCREW, Hex Head, Taptite, 1/4-20 x 1/2
3	1715962ASM	1	SHROUD, Rear
4	1931277SM	7	NUT, Hex, Flange, Whizlock, 5/16-18
5	1726558SM	1	SUPPORT, Fuel Tank
6	1931333SM	1	CARRIAGE BOLT, 5/16-18 x 3/4
7	1708362ASM	1	STRAP, Fuel Tank, Brace
8	1714020SM	1	CAP, Fuel Tank, Vented
9	1687036SM	1	TANK, Fuel
10	1710437SM	1	SPACER, 21/64 x 1/2 x 21/64
11	1924940SM	1	WASHER, Plain, 13/32 x 7/8 x 5/64
12	1931202SM	3	CAPSCREW, Taptite, 5/16-18 x 1-1/ (14 & 16HP Models)
12	1960373SM	3	CAPSCREW, Hex, Taptite, 5/16-18 x 1 (11 & 13 HP Models)
13	1654930SM	1	BUSHING, Rubber
14	1674231SM	1	ELBOW
15	2860112SM	2	CLAMP, Hose
16	1718678SM	1	HOSE, Fuel Line
17	2173206SM	1	FILTER, Fuel
18	1933988SM	2	PUSH NUT, 5/16
19	1930591SM	10	CAPSCREW, Hex Head, Whizlock, 5/16-18 x 3/4
20	1708525SM	1	PAD, Foot Rest, LH
21	1660007SM	1	FRAME ASSEMBLY (Includes Ref. No. 2)
22	1708524SM	1	PAD, Foot Rest, RH
23	1704351SM	14	FASTENER
24	1718376A	1	PANEL, Front
25	1935255SM	4	NUT, SPEED, 5/16-18 L
26	1726566SM	1	SUPPORT, "U" Seat (14 & 16 HP Models)
26	1726563	1	SUPPORT, "U", Seat (11 & 13 HP Models)
27	1715970SM	2	BUMPER, Rubber
28	1924856SM	1	CAPSCREW, Hex Head, Taptite, 5/16 x 1/2
29	1708725ASM	1	DUCT, Air Inlet (11 & 13 HP Models)
29	1726971SM	1	DUCT, Air Inlet (14 & 16 HP Models)
30	1704626SM	2	SPACER, Plastic
31	1705249SM	2	SPACER
32	1704628SM	2	PIN, Quick
33	1705248SM	2	PIVOT, Hood
34	2821133SM	2	FITTING, Lube
35	1919381SM	4	WASHER
36	1921221SM	2	CAPSCREW, Hex Head, 5/16-18 x 1-1/2
37	1917372SM	2	NUT, Hex, 5/16-18
38	1921977SM	2	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
39	1703900SM	1	SPACER
40	2860208SM	2	WASHER, 1"
41	1708881SM	1	CAP, Black, Vinyl
42	1708509SM	1	ADJUSTER, Seat
43	1667286SM	1	SPRING, Extension
44	1725531	1	SUPPORT, Seat
45	1708511SM	4	SPACER
46	1713839SM	1	SEAT ASSEMBLY
47	1686638SM	1	DECK, Seat, Orange
47	1726649SM	1	DECK, Seat, Red

Frame & Fuel System Group

Note: Unless noted otherwise, use the standard torque specifications

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Frame & Fuel System Group

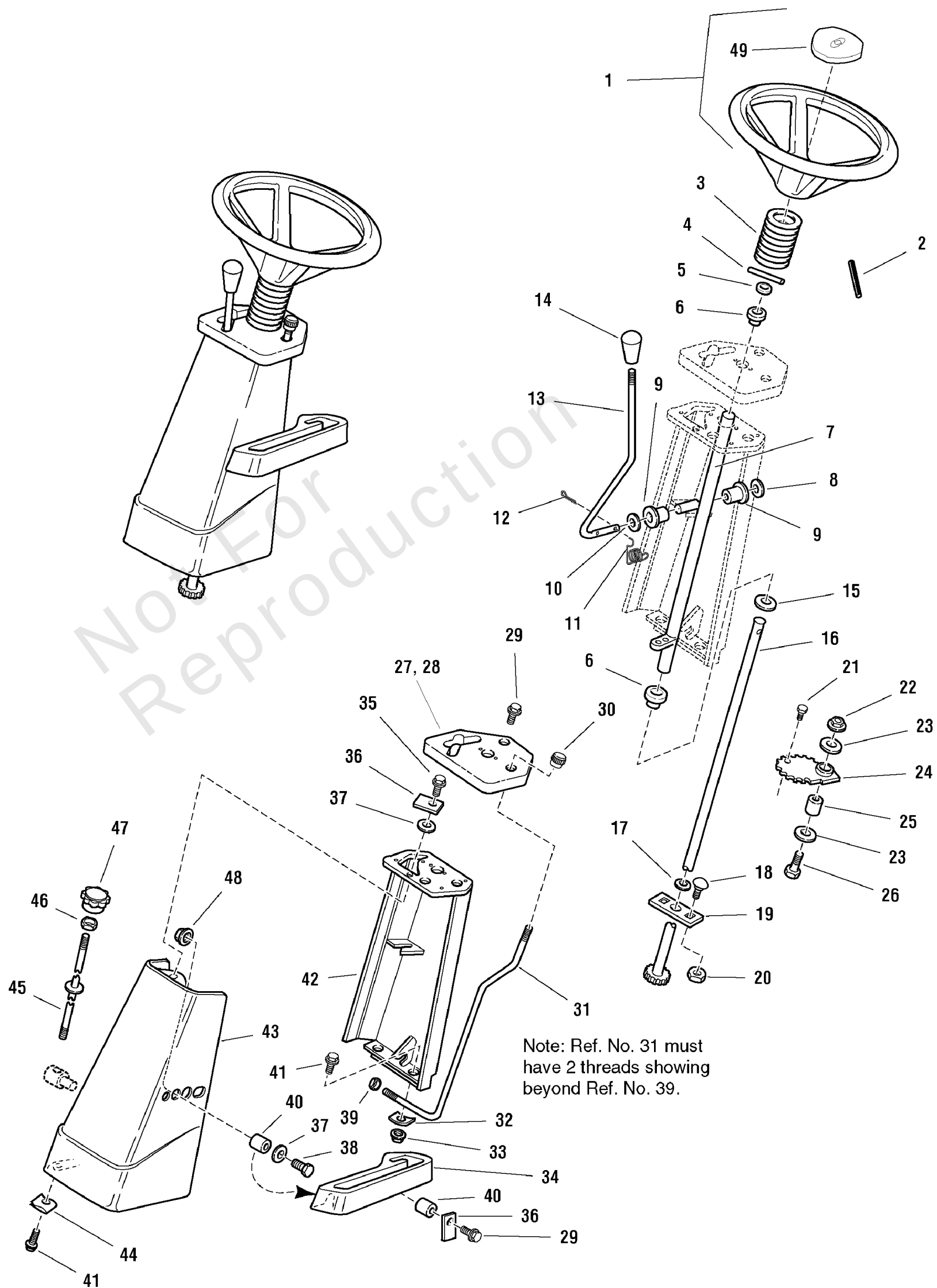
REF NO	PART NO	QTY	DESCRIPTION
48	1673320SM	3	RIVET
49	1708504SM	1	SCREEN, Seat Deck Top
50	1960295SM	8	CAPSCREW, Hex Head, Whizlock, 1/4-20 x 5/8
51	1930642SM	8	NUT, Hex, Flange Lock, 1/4-20
52	1919381SM	5	WASHER, 5/16
53	1673796SM	1	SPACER (14 HP Models)
54	1922127SM	2	SCREW, Hex Head Cap, 5/16-18 x 1 3/4

Not For Reproduction

Front Column & Dash Group

Note: Unless noted otherwise, use the standard torque specifications

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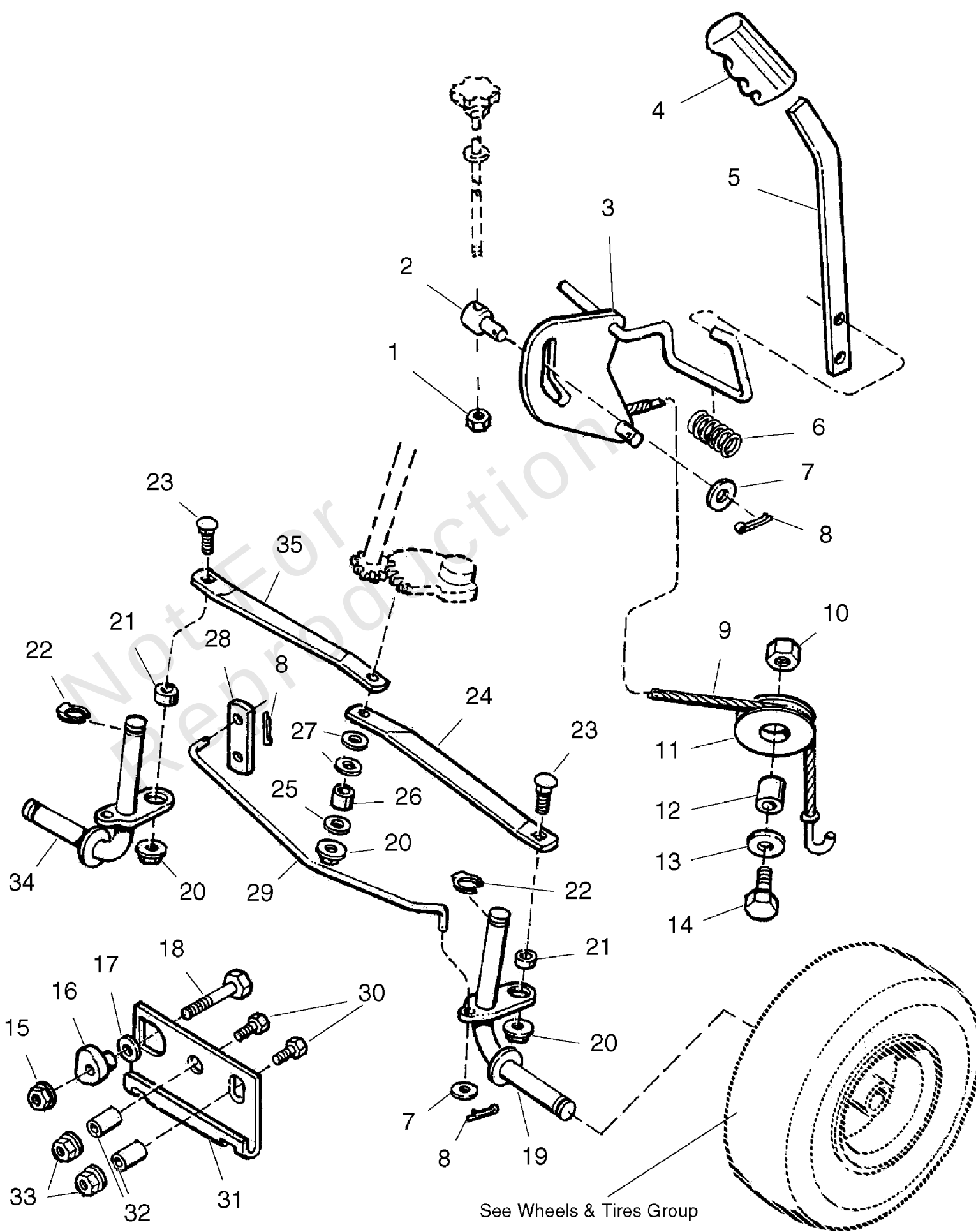
Front Column & Dash Group

REF NO	PART NO	QTY	DESCRIPTION
1	1713841SM	1	STEERING WHEEL ASSEMBLY (Includes Ref. No. 49)
2	1960540SM	1	ROLL PIN
3	1678381SM	1	TUBE, Steering
4	2816001SM	1	PIN-SPRING .188 X 1.0
5	1960160SM	3	WASHER, 49/64
6	2176440SM	2	BUSHING-0.765IDX
7	1709229SM	1	TUBE ASSEMBLY, Shift
8	1960170SM	2	WASHER
9	1704428SM	2	BUSHING
10	1924361SM	1	WASHER, Plain, 17/32 x 1-1/4 x 7/64
11	1707424SM	1	SPRING, Torsion
12	1918447SM	2	COTTER PIN
13	1707375SM	1	ROD, Shift
14	1713843SM	1	KNOB, Rod, Shift
15	1960114SM	1	WASHER, Plain, 11/32 x 1 x 1/8
16	1706014SM	1	SHAFT ASSEMBLY, Steering
17	2173668SM	1	WASHER, Plain
18	1931350SM	2	BOLT, RD HD SH SQ NK
19	1703508ASM	1	PLATE, Steering Mounting
20	1928352SM	2	NUT, Hex, 3/8-16
21	1921221SM	1	CAPSCREW, Hex Head, 5/16-18 x 1-1/2
22	1960339SM	1	NUT, Hex, Flange Lock, 3/8-16
23	1924356SM	3	WASHER, 13/32 x 1-1/2 x 1/8
24	1708426SM	1	GEAR, Steering
25	1666332SM	1	SPACER
26	1923701SM	1	CAPSCREW, Hex Head, 3/8-16 x 2
27	1714081SM	1	DASH, Hydro
28	1714082SM	1	DASH, Gear
29	1925592SM	3	CAPSCREW, Hex, Flange, Taptite, 1/4-20 x 3/4
30	1713855SM	1	KNOB, Rod, Parking Brake
31	1707057SM	1	ROD, Parking Brake
32	1933988SM	2	PUSH NUT, 5/16
33	1931277SM	2	NUT, Hex, Flange, Whizlock, 5/16-18
34	1708965SM	1	QUADRANT, Lift
35	1925003SM	3	CAPSCREW, Hex Head, Taptite, 1/4-20 x 1/2
36	1709075SM	2	CLAMP
37	1921319SM	2	WASHER, Plain, 1/4
38	1924009SM	2	CAPSCREW, Hex Head, 1/4-20 x 7/8
39	1960608SM	1	NUT, Hex, Flange Centerlock, 1/4-20
40	1678392SM	3	SPACER, 17/64 x 3/8 x 21/64
41	1930591SM	6	CAPSCREW, Hex Head, Whizlock, 5/16-18 x 3/4
42	1708990ASM	1	SUPPORT, Steering
43	1708267CSM	1	SHROUD, Front (Orange)
43	1708267DSM	1	SHROUD, Front (Red)
44	1935255SM	4	NUT, SPEED, 5/16-18 L
45	1708971SM	1	ROD, Lift Height
46	1917421SM	2	NUT, Hex, Jam, 1/4-20
47	1713857SM	1	KNOB, Rod, Lift Height
48	1930641SM	2	NUT, Hex, Flange, Whizlock, 1/4-20
49	1714097SM	1	CAP

Steering & Lift Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



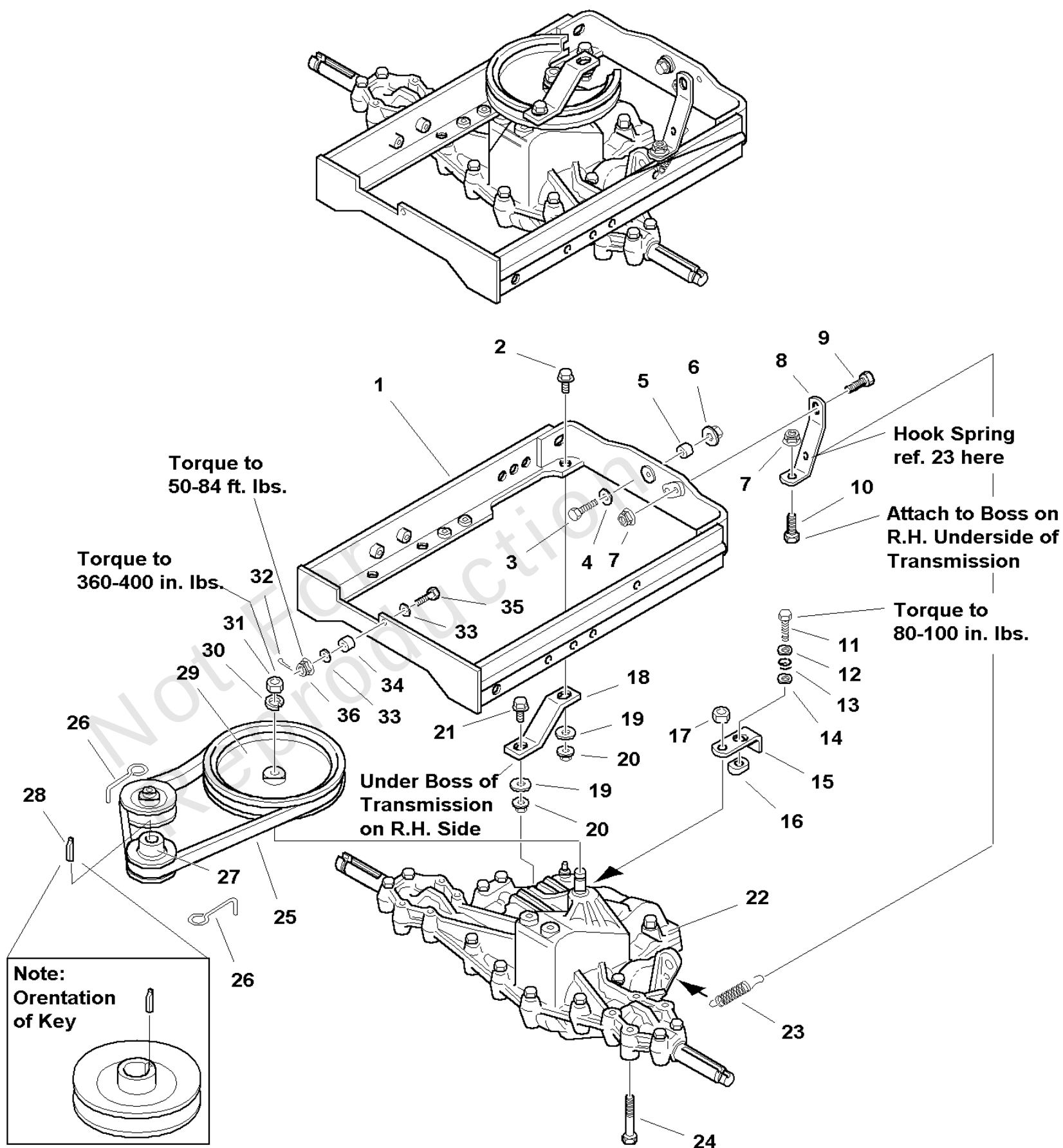
Steering & Lift Group

REF NO	PART NO	QTY	DESCRIPTION
1	1930645SM	1	NUT, Hex, 3/8-16
2	2108512SM	1	PIVOT
3	1708955ASM	1	ARM ASSEMBLY, Lift
4	1708966SM	1	GRIP, Lever
5	1708557ASM	1	LEVER, Lift
6	1708884SM	1	SPRING, Compression
7	1924940SM	3	WASHER, Plain, 13/32 x 7/8 x 5/64
8	1918447SM	3	COTTER PIN, 3/32 x 3/4
9	1708556SM	1	CABLE ASSEMBLY, Lift
10	1919439SM	1	NUT, Hex, Esna Lock, 3/8-16
11	1708559SM	1	PULLEY, Lift
12	1708973SM	1	SPACER
13	1924356SM	1	WASHER, Plain, 13/32 x 1-1/2 x 1/8
14	1921969SM	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
15	1930645SM	1	NUT, Hex, Flange Lock, 3/8-16
16	1708514SM	1	ECCENTRIC
17	1922755SM	1	WASHER, 13/32 x 7/8 x 1/8
18	1921971SM	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
19	1706011SM	1	SPINDLE ASSEMBLY, LH
20	1935048SM	3	NUT, Hex, Flange Lock, 5/16-18
21	1960236SM	2	SPACER
22	1611710SM	2	KLIP RING
23	1960655SM	2	CARRIAGE BOLT, 5/16-18 x 1-1/4
24	1708501ASM	1	TIE ROD, LH
25	1919381SM	1	WASHER
26	1710703SM	1	SPACER, 3/8 x 1/2 x 5/8
27	1960170SM	2	WASHER
28	1708516ASM	1	LEVER
29	1708521SM	1	ROD, Hitch
30	1920328SM	2	CAPSCREW, Hex, 1/2-13 x 1-1/2
31	1709237ASM	1	HITCH, Hook
32	1709235SM	2	SPACER
33	1930644SM	2	NUT-HEX FLANGE 1/2-1
34	1706019SM	1	SPINDLE ASSEMBLY, RH
35	1708500ASM	1	TIE ROD, RH

Transmission Group - Hydro Transaxle - Hydro-Gear 311-0500

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



Transmission Group - Hydro Transaxle - Hydro-Gear 311-0500

REF NO	PART NO	QTY	DESCRIPTION
1	1687051SM	1	CARRIER ASMY W/BUSHIN
2	1930591SM	1	CAPSCREW, Hex Head, Whizlock, 5/16-18 x 3/4
3	1921176SM	1	CAPSCREW, Hex Head, 1/2-13 x 1-1/4
4	1924361SM	1	WASHER, Plain, 17/32 x 1-1/4 x 5/64
5	1719725SM	1	SPACER
6	1930644SM	1	NUT-HEX FLANGE 1/2-1
7	1927557SM	2	NUT, Hex, Flange Whizlock, 5/16-18
8	1709216SM	1	STRAP, Torque
9	1931332SM	1	CARRIAGE BOLT, 5/16-18 x 5/8
10	1935159SM	1	CAPSCREW, Hex, 5/16-18 x 2-1/4
11	1960509SM	1	CAPSCREW, Taptite, #10-24 x 1-1/4
12	1960151SM	1	WASHER, 1/4
13	2157127SM	1	SPRING
14	2860210SM	1	WASHER, Plain, 13/32 x 1-1/4 x 1/16
15	1709271SM	1	LEVER, Release
16	1709901SM	1	SPACER
17	1920397SM	1	NUT, Hex, Lock, 1/4-20
18	1713441SM	1	STRAP, Torque
19	1919381SM	2	WASHER, 5/16
20	1935048SM	2	NUT, Hex, Flange Lock, 5/16-18
21	1933689SM	1	SCREW, 5/16-18 x 1-1/2, Hex Flange, Whiz Lock
22	1686615SM	1	* TRANSMISSION, Hydro (HydroGear, Mod 311-0500)
23	2159106SM	1	SPRING, Return
24	2860478SM	4	CAPSCREW, Taptite, 5/16-18 x 2-1/4
25	1709323SM	1	V-BELT
26	1704419SM	2	BELT STOP
27	1709218SM	1	PULLEY, Engine
28	2171241SM	1	KEY, Hi-Pro
29	1709213SM	1	PULLEY, Transmission
30	1916966SM	1	LOCKWASHER, Spring, 1/2
31	1919262SM	1	NUT, Hex, Jam, 1/2-20
32	1923500SM	1	COTTER PIN, 1/8 x 1-1/2
33	1654565SM	2	WASHER, Belleville, 1/2
34	1719683SM	1	SPACER
35	1719682SM	1	CAPSCREW, Hex Head, With Hole, 1/2-20 x 1-3/4
36	2860605SM	1	NUT, Hex, Slotted, 1/2-20

Footnotes:

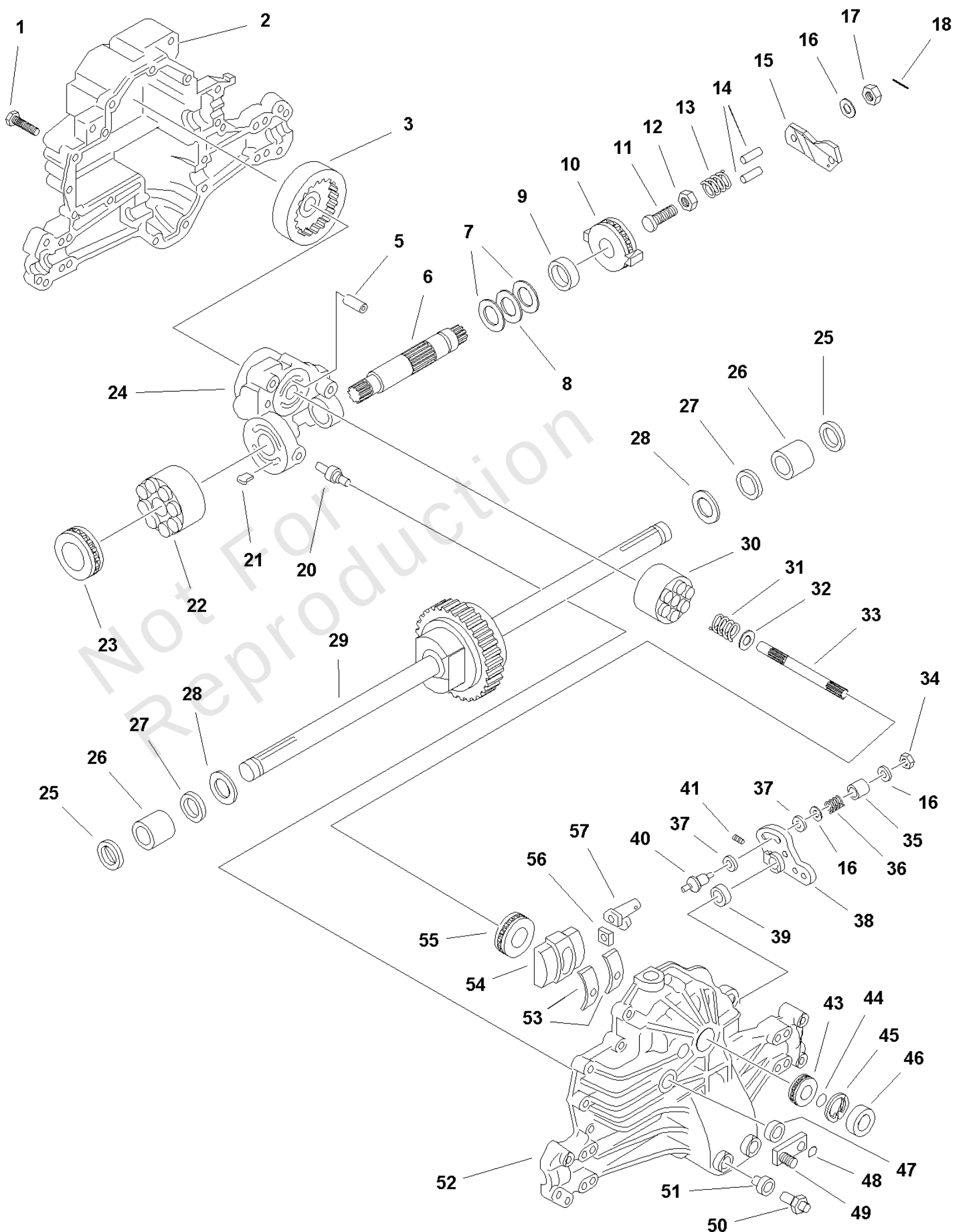
Note:** Key MUST be installed as shown to prevent damage to electric clutch.

Note:* See Transmission SERVICE PARTS - Hyrdo-Gear 311-0500 Models section.

Transmission SERVICE PARTS - Hydro-Gear 311-0500 (1708579)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



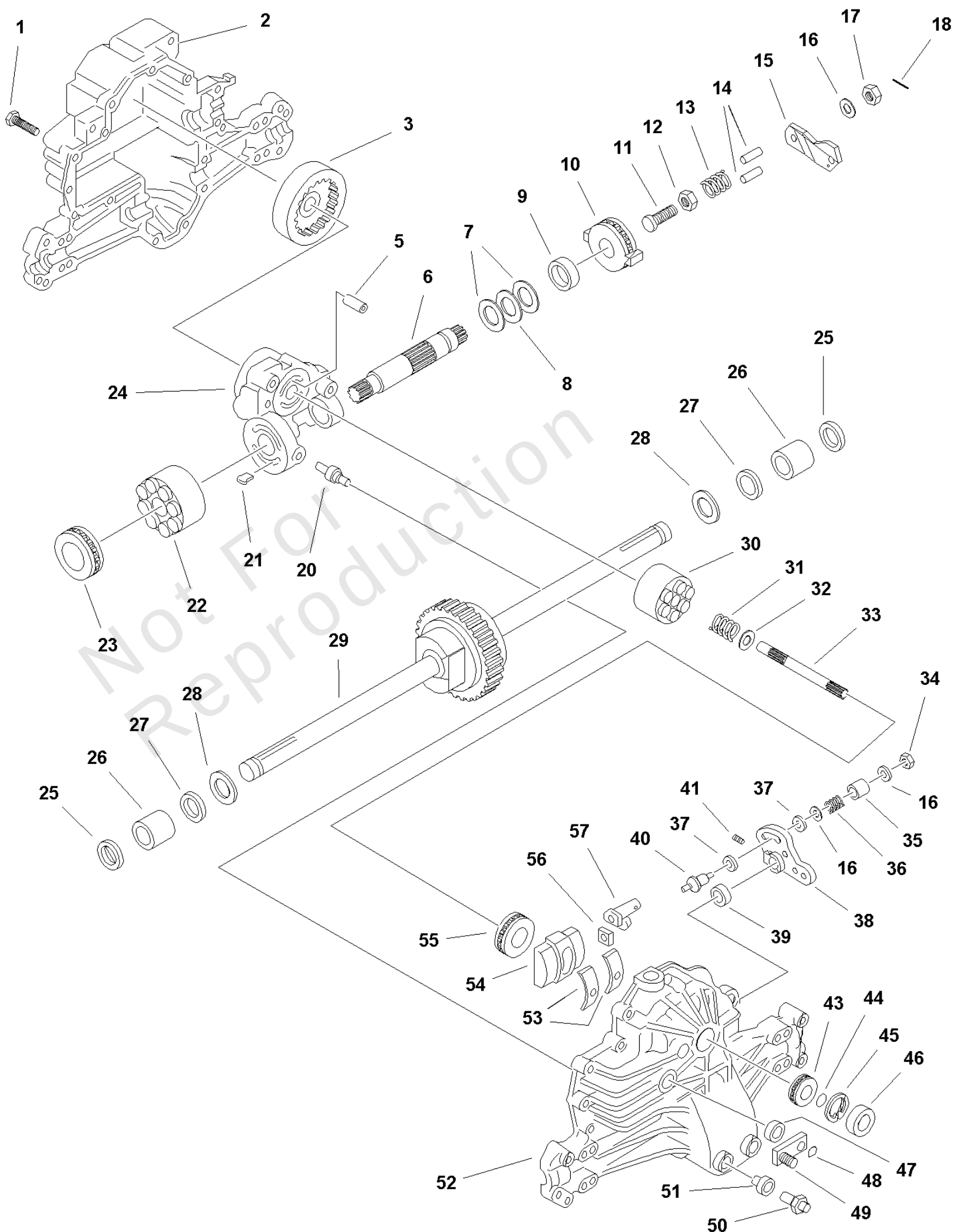
Transmission SERVICE PARTS - Hydro-Gear 311-0500 (1708579)

REF NO	PART NO	QTY	DESCRIPTION
1	1715164SM	21	BOLT, 1/4-20 x 1-3/8
2	1715182SM	1	HOUSING, Lower
3	1715157SM	1	OIL FILTER ELEMENT
5	1715165SM	2	PIN
6	1715149SM	1	SHAFT, Motor
7	1715156SM	2	WASHER
8	1715155SM	1	RING, Retaining
9	1715154SM	1	SEAL, Lip .26 x .42 x .8
10	1715159SM	1	BRAKE ROTOR/STATOR KIT
11	1715158SM	1	BOLT, 5/16-18 x 1-3/4
12	1709919SM	1	NUT, Hex, Lock, 5/16-24
13	1714808SM	1	COMPRESSION SPRING
14	1709915SM	2	PIN, Actuating
15	1709916SM	1	ARM, Actuating
16	1924874SM	3	WASHER, 7/16 x 7/8 x 1/16
17	1714431SM	1	CASTLE NUT, 5/16-24
18	1918447SM	1	COTTER PIN
20	1715152SM	1	ACTUATOR, Bypass
21	1715233SM	1	BYPASS PLATE
22	1715276SM	1	BLOCK, Cylinder (Motor) Assembly
23	1715274SM	1	BEARING, Thrust .42 x .68 x .16
24	1715797SM	1	CENTER SECTION ASSEMBLY
25	1715170SM	2	SEAL, Wiper
26	1715181SM	2	SLEEVE BEARING
27	1715162SM	2	SEAL, 3/4 x 1-1/4 x 1/4
28	1715180SM	2	WASHER, 3/4 x 1.5 x .13
29	1715179SM	1	DIFFERENTIAL ASSEMBLY
30	1715146SM	1	BLOCK, Cylinder Pump Assembly
31	1715171SM	1	SPRING, Block
32	1715172SM	1	WASHER, Block Thrust
33	1715163SM	1	SHAFT, Input
34	1715178SM	1	NUT, Hex Lock, 5/16-24
35	1714740SM	1	SPACER
36	1714739SM	1	SPRING
37	1714737SM	2	PUCK, Dampener
38	1714738SM	1	ARM, Control
39	1709908SM	1	SEAL, Lip
40	1714741SM	1	STUD, 5/16-24
41	1709910SM	1	SET SCREW
43	1715142SM	1	BEARING, Shaft Ball
44	1715141SM	1	RING, Wire, Retaining
45	1706174SM	1	RING, Retaining
46	1706173SM	1	SEAL, Lip
47	1709921SM	1	SEAL, Lip, 1.0 x .25 x .7
48	1709922SM	1	RING, Retaining
49	1709907SM	1	ARM, Bypass
50	1709905SM	1	BREATHER ASSEMBLY
51	1654930SM	1	BUSHING, Vent
52	1715183SM	1	UPPER HOUSING ASSEMBLY
53	1715143SM	2	BEARING, Cradle
54	1715145SM	1	SWASHPLATE, Variable

Transmission SERVICE PARTS - Hydro-Gear 311-0500 (1708579)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



Transmission SERVICE PARTS - Hydro-Gear 311-0500 (1708579)

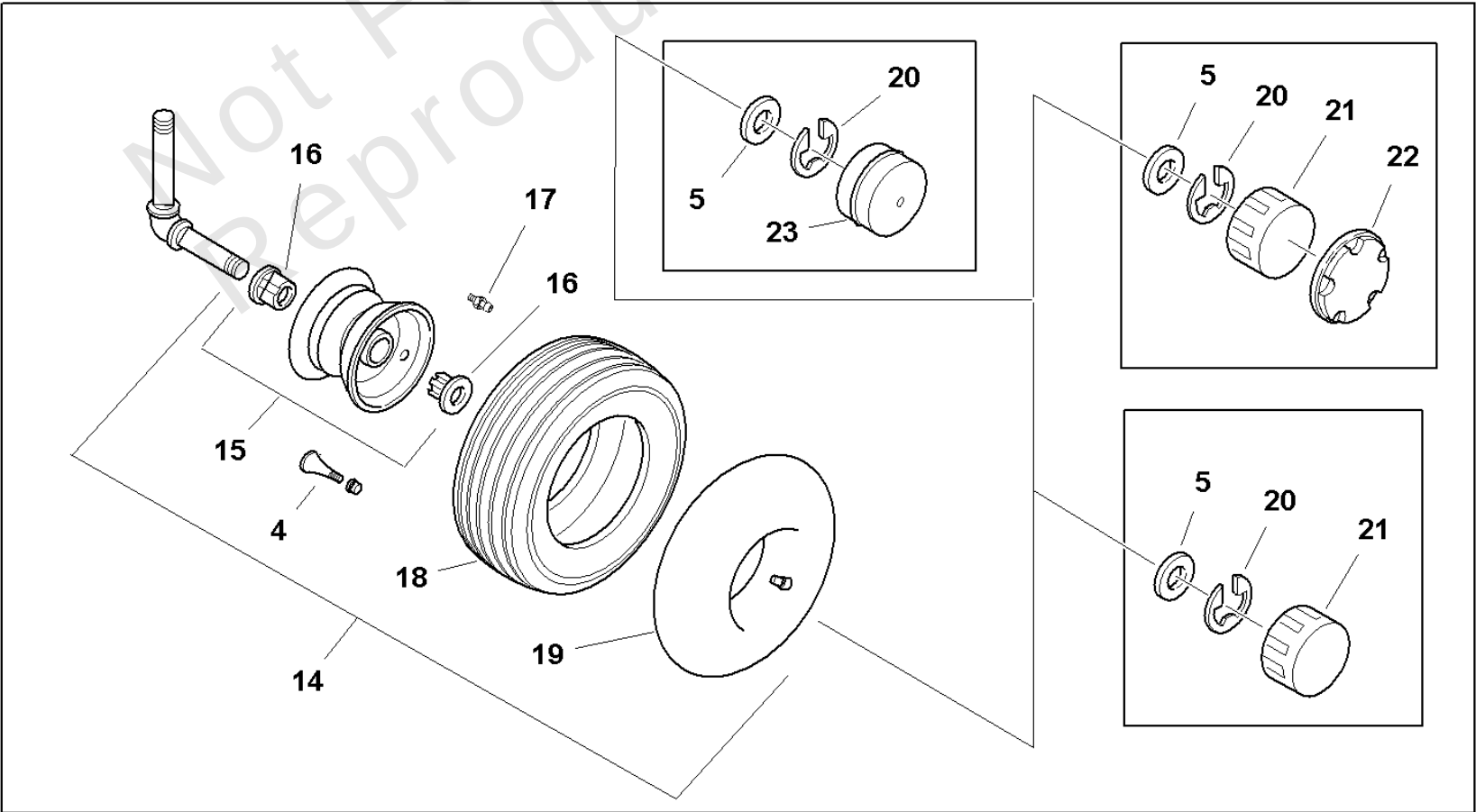
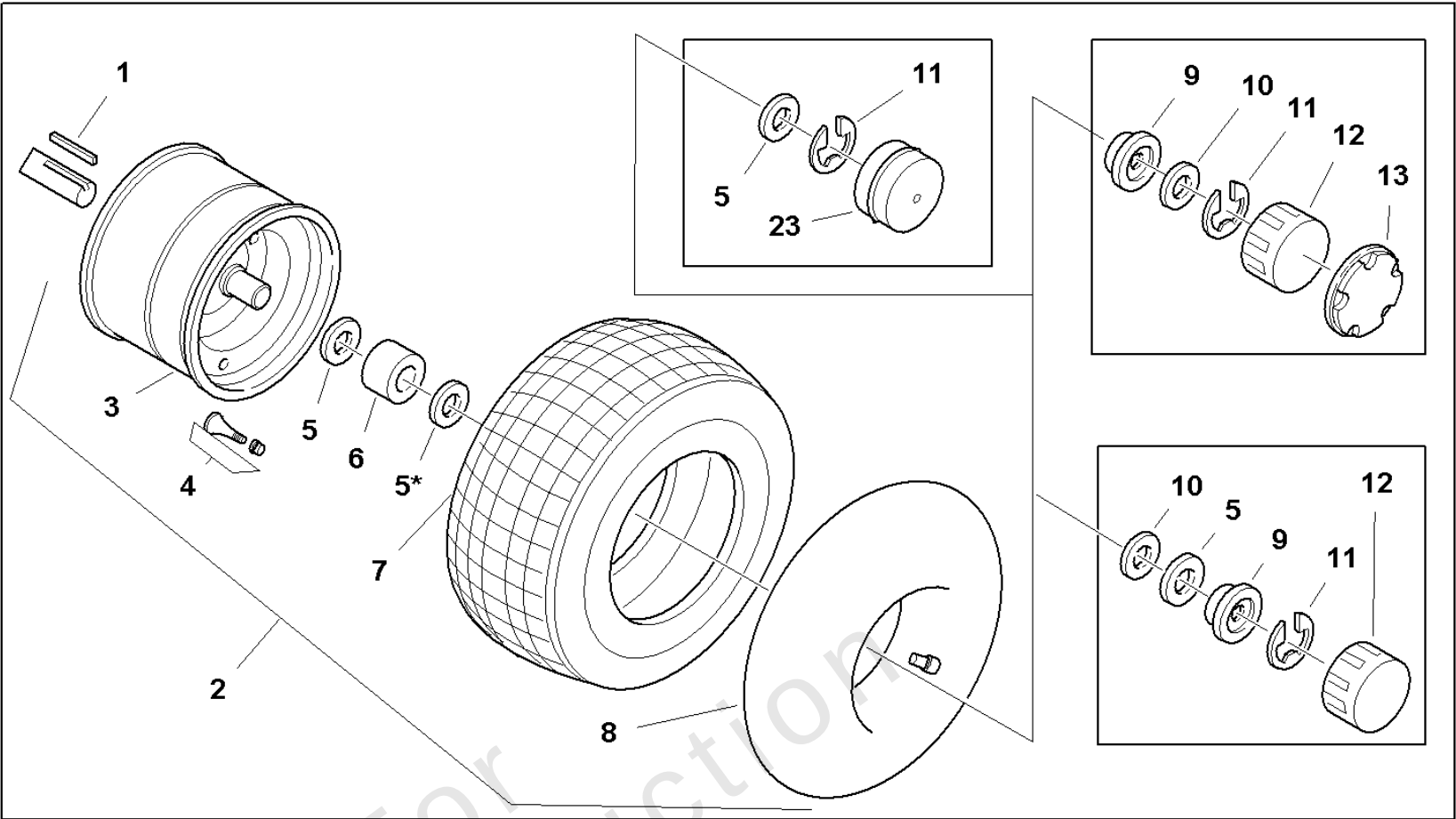
REF NO	PART NO	QTY	DESCRIPTION
55	1715144SM	1	BEARING, Thrust .30 x .52 x .13
56	1715148SM	1	GUIDE, Slot
57	1715147SM	1	ARM, Trunnion

Not For Reproduction

Wheels & Tires Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



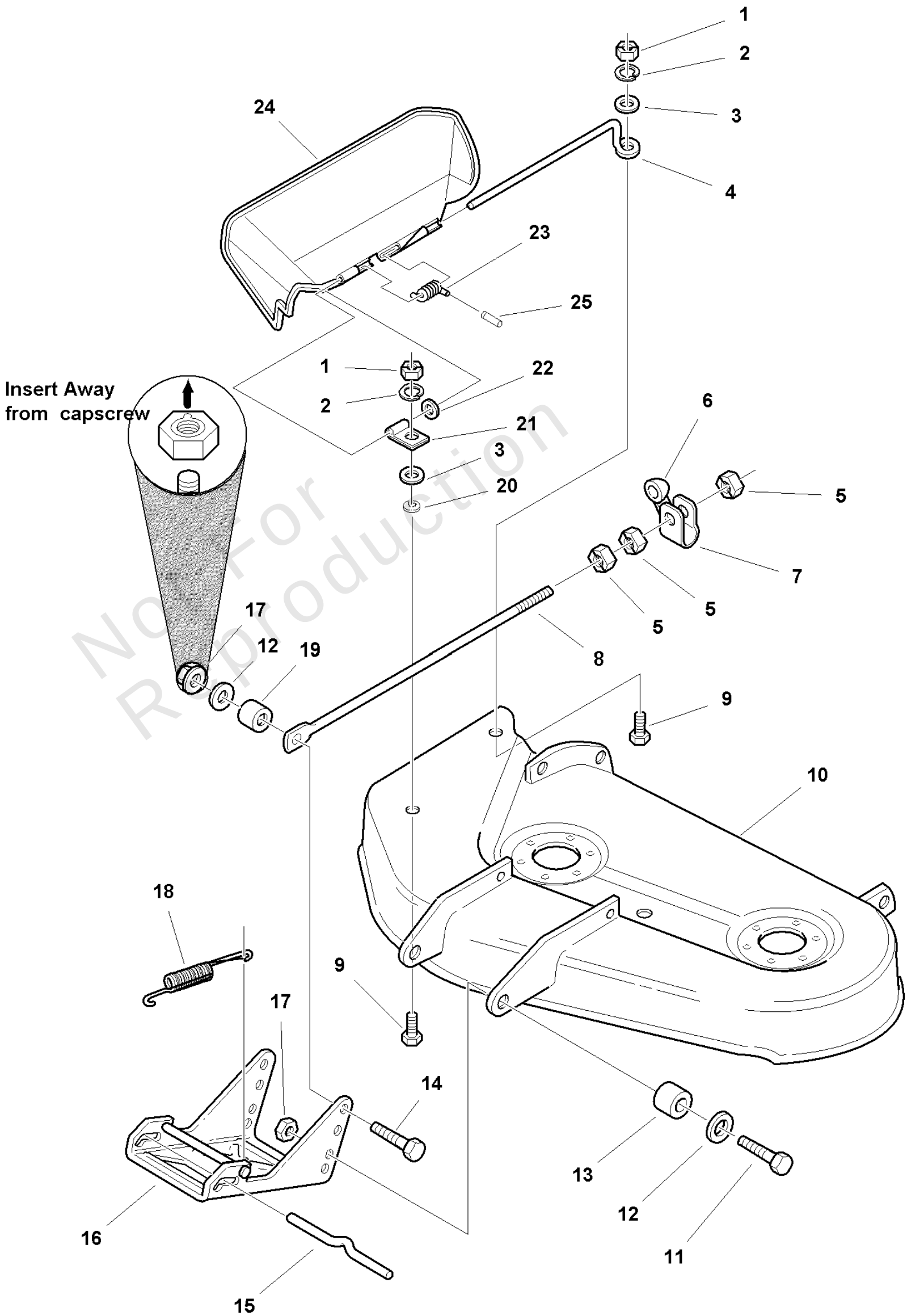
Wheels & Tires Group

REF NO	PART NO	QTY	DESCRIPTION
1	1729279SM	2	KEY, Square, 3/16 x 3/16 x 1-1/2 long
2	1723171SM	2	REAR WHEEL & TIRE ASSEMBLY, Hoosier, (Includes Ref. Nos. 3, 4, 7 & 8)
3	1723400SM	2	REAR WHEEL ASSEMBLY, Metallic Gray
4	2172353SM	4	VALVE STEM & CAP
5	2860202SM	14	WASHER, 3/4 (Qty. 10 used on hydro models)
6	1663180SM	A/R	SPACER (Hydro models only)
7	1723399SM	2	TIRE, Rear Wheel, 16 X 6.50-8
8	2164247SM	2	TUBE, Rear Wheel
9	1701435SM	2	RETAINER, Hub Cap
10	1960114SM	2	WASHER, 3/4 I.D. x 1-1/16 O.D. x 1/16 Thk.
11	2827794SM	2	KLIPRING, .75 Dia Shaft
12	1676519SM	2	CAP, Threaded
13	1714926SM	2	HUB CAP, Scalloped, 8"
14	1723170SM	2	FRONT WHEEL & TIRE ASSEMBLY, Hoosier, 13 x 5.00-6, Metallic Gray (Includes Ref. Nos. 4, 15, 18 & 19)
15	1723402SM	2	FRONT WHEEL ASSEMBLY 13 x 5.00-6, Metallic Gray (Includes Ref. No. 16)
16	1713167SM	4	BUSHING, Metal, 7-21/32 I.D.
17	2812808SM	2	Grease Fitting
18	1723401SM	2	TIRE, Front Wheel, 13 x 5.00-6
19	1664090SM	2	TUBE, Front Wheel, 4.10/3.50 x 6
20	1611710SM	2	KLIP RING
21	1673333SM	2	CAP, Threaded
22	1714925SM	2	HUB CAP, 6", Scalloped
23	1722675SM	4	HUB CAP, Silver

34" Mower Deck - Housing, Hitch & Deflector

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



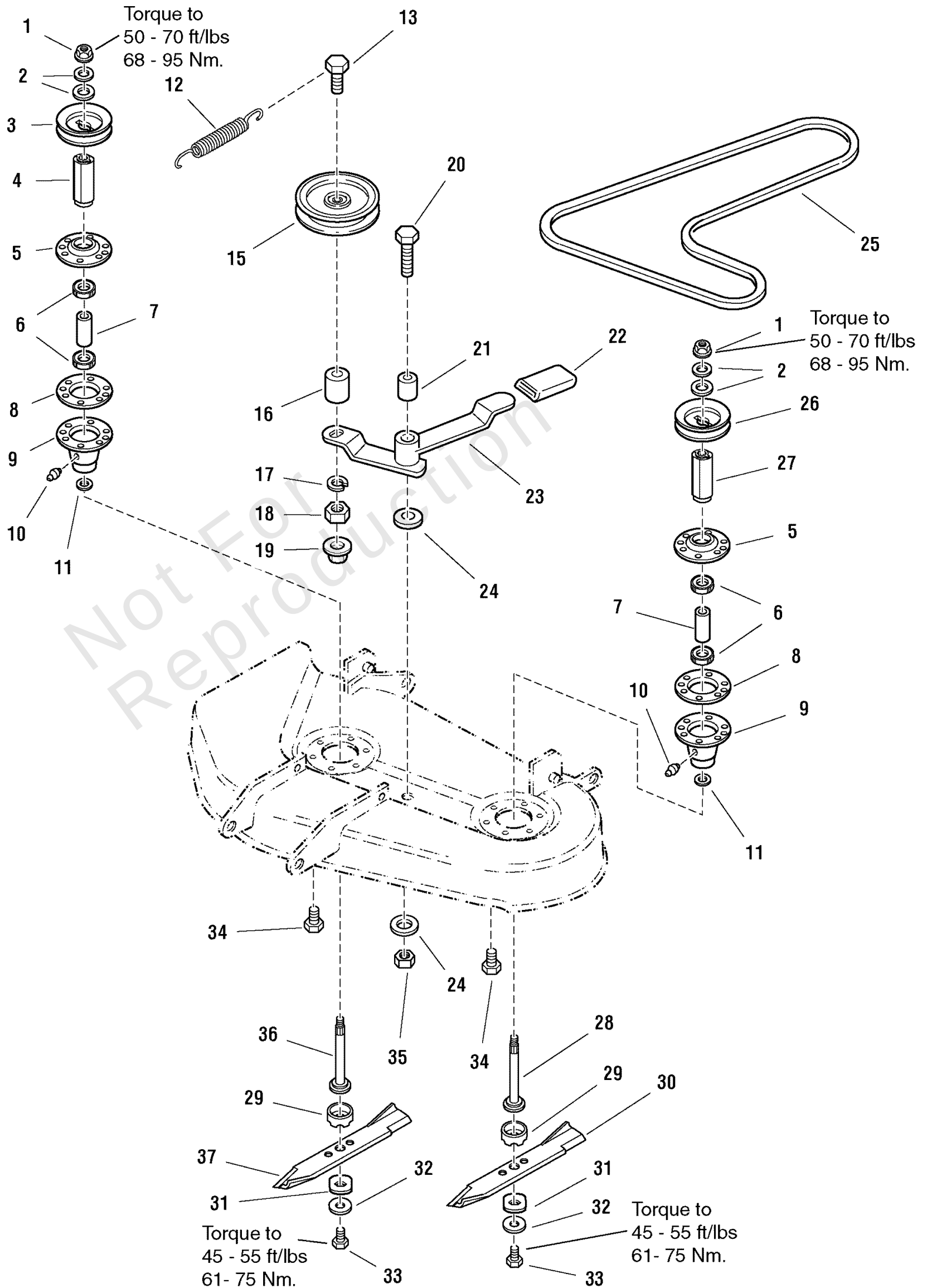
34" Mower Deck - Housing, Hitch & Deflector

REF NO	PART NO	QTY	DESCRIPTION
1	1916622SM	2	NUT, Hex, 1/4-20
3	1960353SM	2	WASHER, Flat, 17/64 x 27/32 x 1/8
4	1706709SM	1	ROD-.283DIA 11.65LG D
5	1913744SM	3	NUT, Hex Jam, 1/2-13
6	1671260SM	1	SPACER
7	1707280ASM	1	TRUNNION
8	1707300SM	1	ROD, Adustment
9	1931318SM	2	CARRIAGE BOLT, 1/4-20 X 7/8
10	1685672SM	1	HOUSING ASSEMBLY, 34" (Orange)
10	1687137SM	1	HOUSING ASSEMBLY, 34" (Black)
11	1921968SM	2	CAPSCREW, Hex, 3/8-16 x 1-3/8
12	1924940SM	3	WASHER, Flat, 3/8
13	2157081SM	2	SPACER
14	1921210SM	1	CAPSCREW, Hex Head, 3/8-16 x 1
15	1715759SM	1	ROD, 3/8 x 8
16	1707432ASM	1	HITCH ASSEMBLY
17	2860681SM	3	NUT, Hex Flange, 3/8-16
18	2156302SM	1	SPRING
19	1611705SM	1	SPACER-0.385IDX0
20	1960518SM	1	PUSHNUT
21	1704873SM	1	CLAMP, WIRE, .312DIA
22	1919326SM	1	WASHER, 5/16
23	1723938SM	1	SPRING
24	1705449SM	1	DEFLECTOR, Plastic
25	1723323SM	1	CAP, Spring End

34" Mower Deck - Drive & Arbor

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



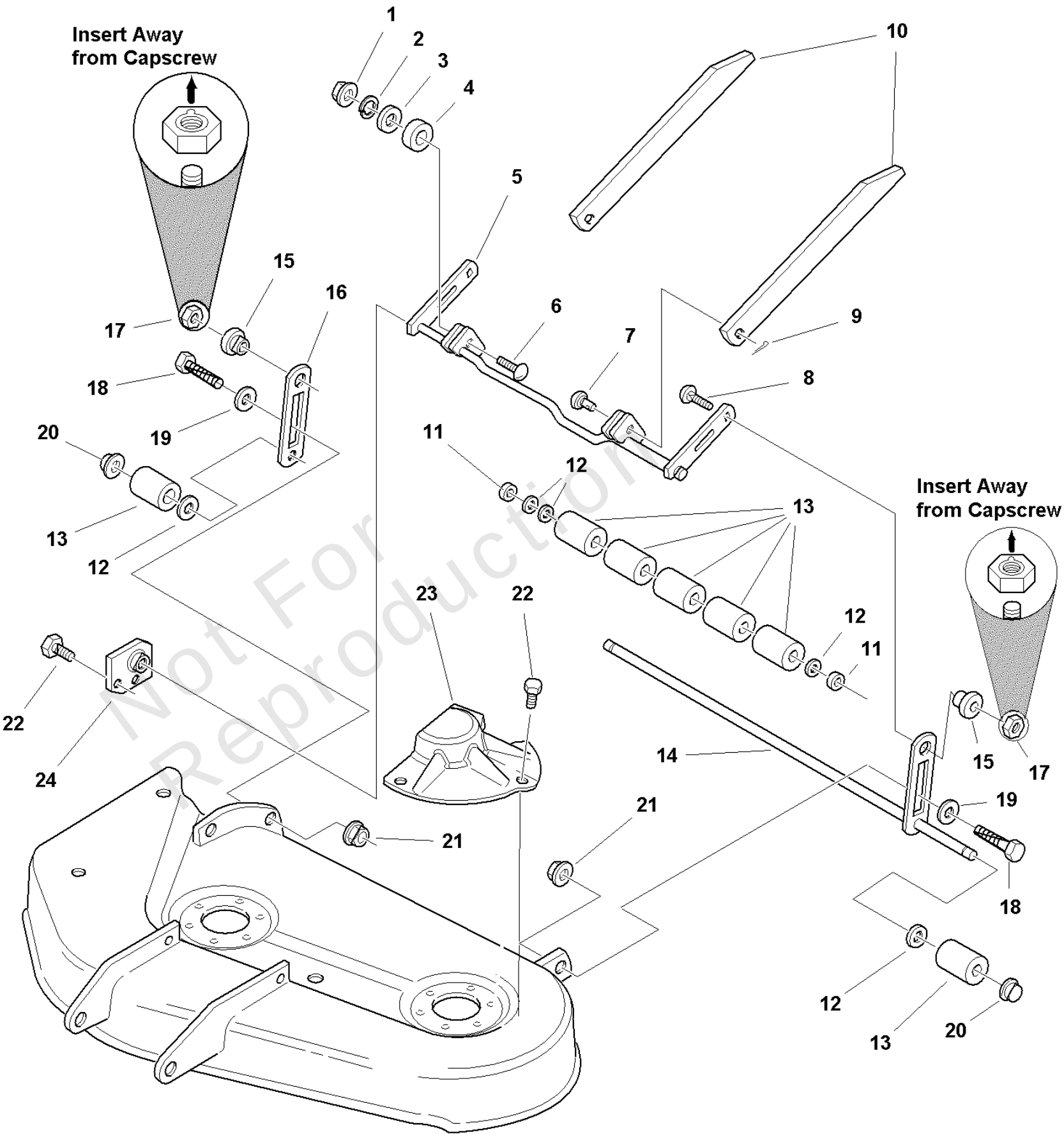
34" Mower Deck - Drive & Arbor

REF NO	PART NO	QTY	DESCRIPTION
1	1714419SM	2	NUT, Hex, Flange, 9/16-18
2	1713675SM	4	WASHER, Bellville .56ID x 1.34 OD x .05T
3	1713091SM	1	PULLEY, 5"
4	1713614SM	1	HUB, Pulley, 1-35/64"
5	1713199ASM	2	COVER, Arbor Housing ASSEMBLY
6	1705897SM	4	BEARING, BALL 11/16X1
7	1732543SM	2	SPACER
8	1707335SM	2	GASKET, Foam
9	1713338ASM	2	HOUSING ASSEMBLY, Arbor Bottom, w/Lube Fitting -(Includes Ref. No. 10)
10	1704314SM	2	LUBE FITTING, .250 DR
11	1713619SM	2	WASHER
12	2164213SM	1	SPRING
13	1921972SM	1	CAPSCREW, 3/8-16 x 2-1/2
15	1704926SM	1	PULLEY, Idler, Backside
16	1667812SM	1	SPACER
17	1916965SM	1	LOCKWASHER, 3/8
18	1916950SM	1	NUT, Hex, 3/8-16
19	1930645SM	1	NUT, Hex, Flange, Lock, 3/8-16
20	1928957SM	1	CAPSCREW, Hex Head, 3/8-16 x 2-3/4
21	1657242SM	1	SPACER
22	1708966SM	1	GRIP, Lever
23	1708561SM	1	LEVER ASSEMBLY
24	1924356SM	2	WASHER, Flat, 3/8
25	1723391SM	1	V-BELT
26	1713090SM	1	PULLEY, 3-3/4"
27	1713613SM	1	HUB, Pulley, 1-3/16"
28	1713609SM	1	SHAFT, Arbor, 5-53/64"
29	1713196SM	2	SHIELD, Grass, Lower
30	1706737ASM	1	BLADE, 14-27/64"
31	1713089SM	2	WASHER, Hex
32	1656916SM	2	WASHER, SPRING 0.475I
33	2823471SM	2	CAPSCREW, Hex Head, 7/16-14 x 1-1/4, GR 8
34	1664847SM	12	CAPSCREW Taptite, 5/16-18 x 3/4
35	1928352SM	1	NUT, Hex, 3/8-16
36	1713610SM	1	SHAFT, Arbor, 6-33/64"
37	1706738ASM	1	BLADE, MOWER, 19-7/8

34" Mower Deck - Height Adjustment

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



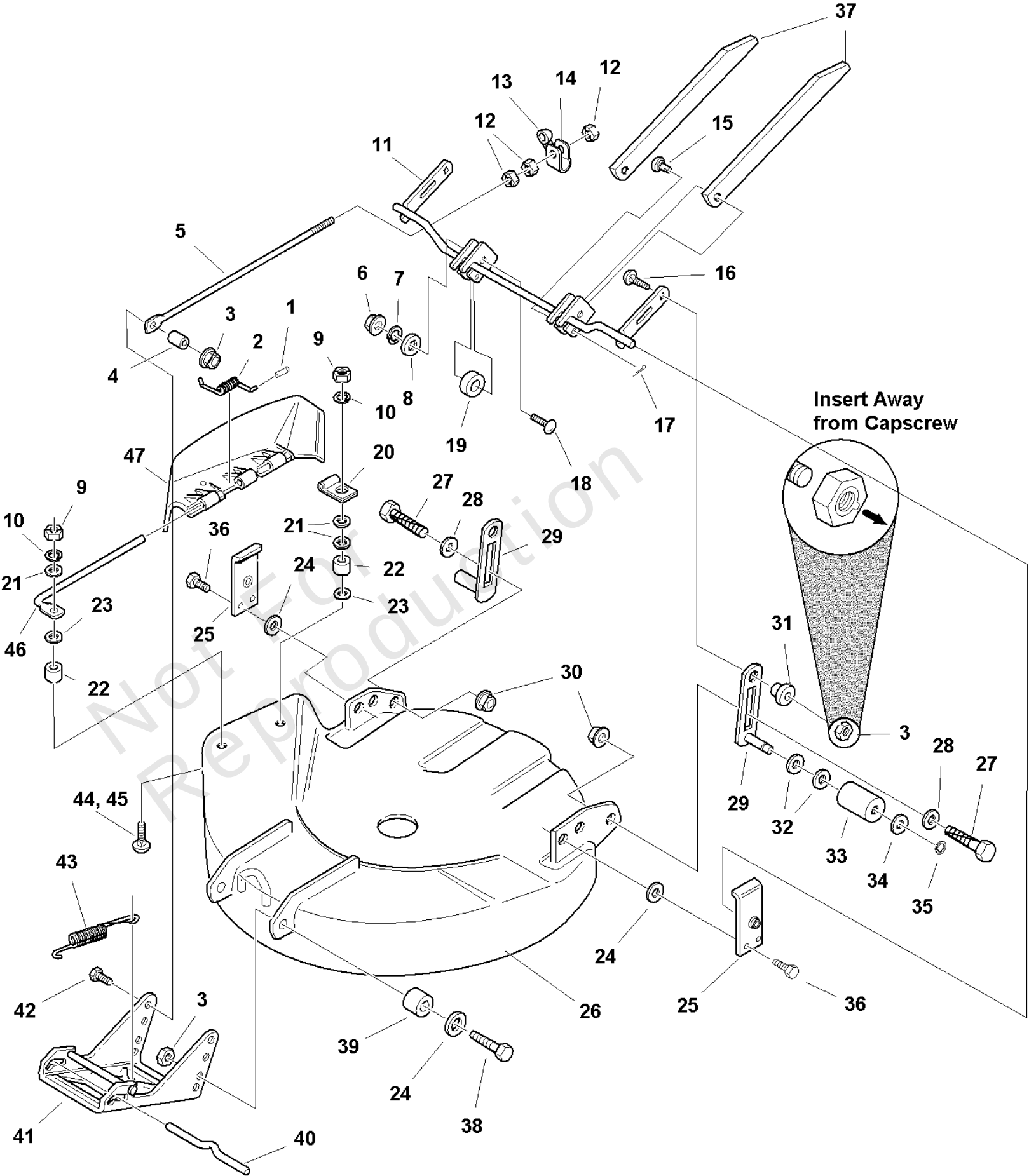
34" Mower Deck - Height Adjustment

REF NO	PART NO	QTY	DESCRIPTION
1	1917372SM	1	NUT, Hex, 5/16-18
2	1917356SM	2	LOCKWASHER, 5/16
3	1919326SM	2	WASHER, 5/16
4	1704716SM	2	SPACER
5	1707286ASM	1	ARM ASSEMBLY
6	1960223SM	2	BOLT-RD HD SH SQ NK 5
7	1733568SM	2	PIN-RND HD DRILLED .3
8	1931352SM	2	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2
9	1960074SM	2	CLIP, HAIR PIN .093DI
10	1709209ASM	2	BAR, Mower Transport
11	1602946SM	2	SPACER, .66 ID
12	1924366SM	5	WASHER, 5/8
13	1668513SM	7	ROLLER, .652 ID, 2.50 OD, 4.10 LG
14	1686682SM	1	SHAFT ASSEMBLY, Roller (Includes Ref. 20)
15	1704082SM	2	NUT, Hex Adjusting, 11/16
16	1708520ASM	1	PLATE, Support, RH
17	2860681SM	2	NUT, Hex Flange, 3/8-16
18	2172622SM	2	BOLT, Shoulder, 3/8-16 X 1.34, 1/2 Shoulder
19	1924361SM	2	WASHER, Flat, 1/2
20	1960520SM	2	NUT, Push, 5/8
21	1928352SM	2	NUT, Flange Lock, 3/8
22	1664847SM	5	CAPSCREW, Taptite, 5/16-18 x 5/8
23	1707567SM	1	COVER, Arbor
24	1708564ASM	1	PLATE, Support

30" Mower Deck - Housing, Hitch & Height Adjustment

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



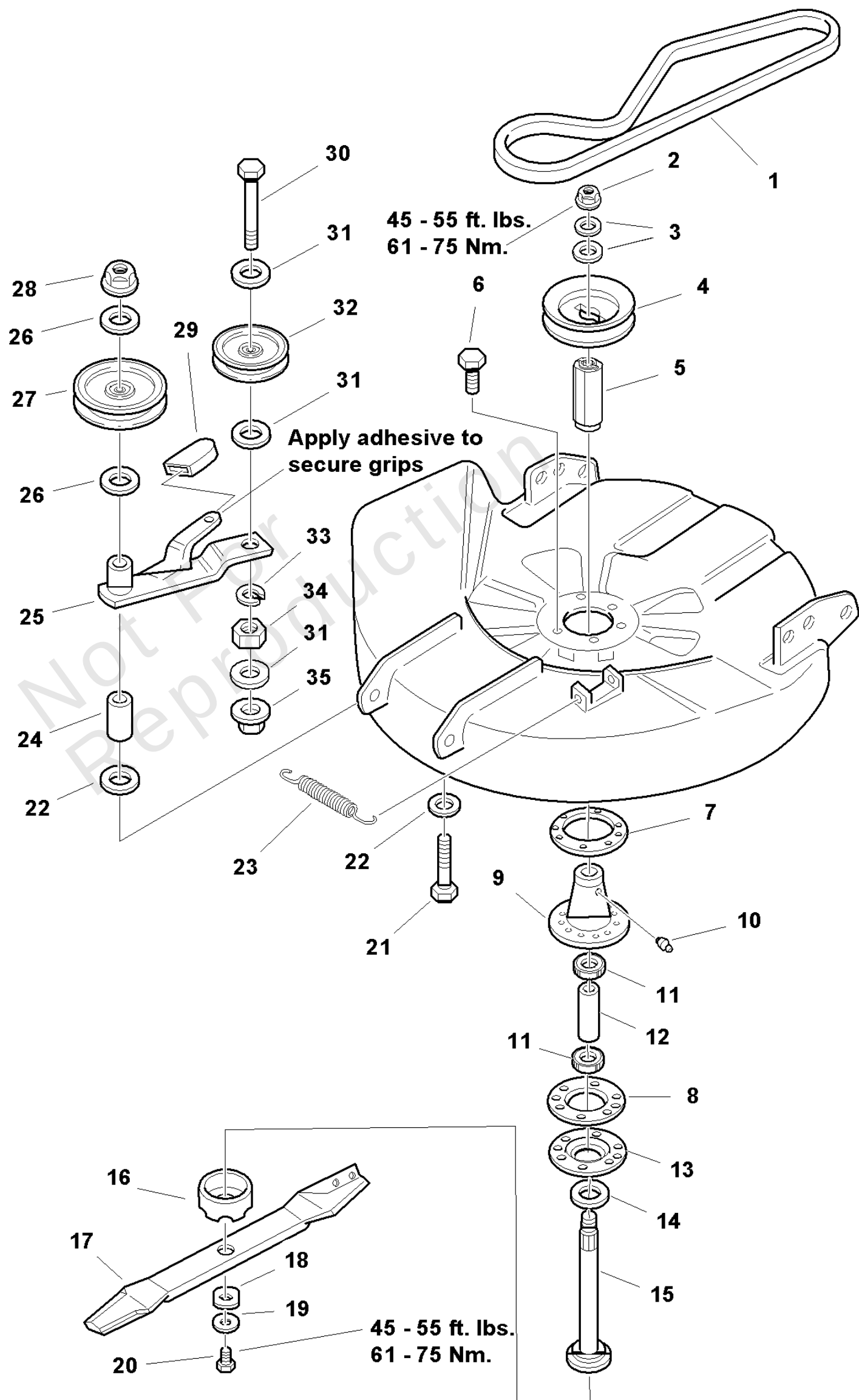
30" Mower Deck - Housing, Hitch & Height Adjustment

REF NO	PART NO	QTY	DESCRIPTION
1	1723323SM	1	CAP, Spring End
2	7101082SM	1	SPRING, Torsion
3	2860681SM	5	NUT, Hex Flange, 3/8-16
4	1611705SM	1	SPACER-0.385IDX0
5	1707300SM	1	ROD, Adjustment
6	1917372SM	2	NUT, Hex, 5/16-18
7	1917356SM	2	LOCKWASHER, 5/16
8	1919326SM	2	WASHER, 5/16
9	1920397SM	2	NUT, Hex, 1/4-20 ESNA
11	1707540ASM	1	ARM ASSEMBLY, Mower
12	1913744SM	3	NUT, Hex Jam, 1/2-13
13	1671260SM	1	SPACER
14	1707280ASM	1	TRUNNION
15	1733568SM	2	PIN-RND HD DRILLED .3
16	1931352SM	2	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2
17	1960074SM	2	CLIP, HAIR PIN .093DI
18	1960223SM	2	BOLT-RD HD SH SQ NK 5
19	1704716SM	2	SPACER
20	1704873SM	1	CLAMP, WIRE, .312DIA
21	1921319SM	3	WASHER, Plain (1 Required for Export)
22	1700692SM	2	SPACER (Export)
23	1960518SM	2	PUSHNUT, 1/4
24	1924940SM	6	WASHER, Flat, 3/8
25	1708250ASM	2	PLATE, Pivot Support
26	1685670SM	1	HOUSING ASSEMBLY, 30" (Orange)
26	1687157SM	1	HOUSING ASSEMBLY, 30" (Red)
26	1687135SM	1	HOUSING ASSEMBLY, 30" (Black)
27	2172622SM	2	BOLT, Shoulder, 3/8-16 X 1.34, 1/2 Shoulder
28	1924361SM	2	WASHER, Flat
29	1708519ASM	2	SUPPORT ASSEMBLY, Roller
30	1928352SM	2	NUT, Hex, Flange, Whizlock, 3/8-16
31	1704082SM	2	NUT, Hex Adjusting, 11/16
32	1924366SM	4	WASHER, 5/8
33	1668487SM	2	ROLLER
34	1960020SM	2	WASHER, Plain, 21/32
35	2153124SM	2	RING, Retaining
36	1664847SM	4	CAPSCREW, Taptite, 5/16-18 x 3/4
37	1709209ASM	2	BAR, Mower Transport
38	1921968SM	2	CAPSCREW, Hex, 3/8-16 x 1-3/8
39	2157081SM	2	SPACER
40	1715759SM	1	ROD, 3/8 x 8
41	1707432ASM	1	HITCH ASSEMBLY
42	1921210SM	1	CAPSCREW, Hex Head, 3/8-16 x 1
43	2156302SM	1	SPRING, Extension
44	1931317SM	2	CARRIAGE BOLT, 1/4-20 x 3/4
45	1931320SM	2	CARRIAGE BOLT, 1/4-20 x 1-1/4 (Export)
46	1664947SM	1	ROD, Deflector
47	1705449SM	1	DEFLECTOR, Plastic

30" Mower Deck - Drive & Arbor

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694288



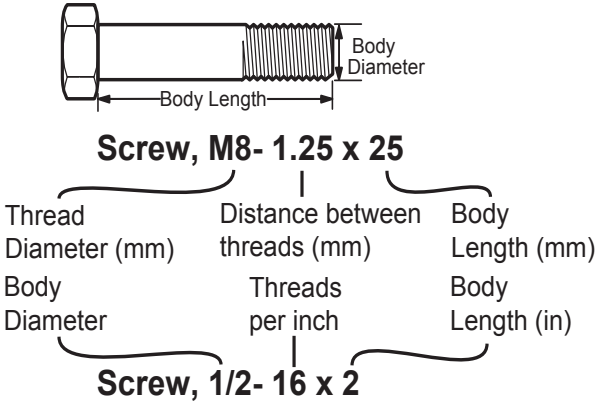
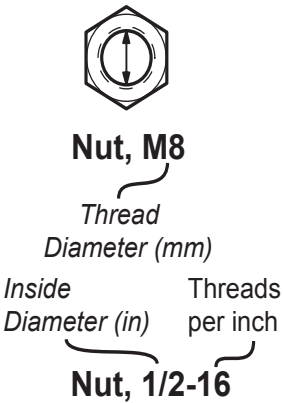
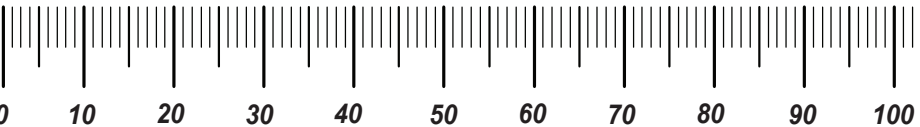
30" Mower Deck - Drive & Arbor

REF NO	PART NO	QTY	DESCRIPTION
1	1719746SM	1	V-BELT
2	1714419SM	1	NUT, Hex Flange, 9/16-18
3	1713675SM	2	WASHER, Bellville .56ID x 1.34 OD x .05T
4	1713092SM	1	PULLEY
5	1713613SM	1	HUB, Pulley, 1-3/16
6	1960373SM	6	CAPSCREW, Hex Head, Taptite, 5/16-18 x 1
7	1677274ASM	1	ADAPTER, Arbor
8	1707335SM	1	GASKET, Foam
9	1713338ASM	1	HOUSING ASSEMBLY, Arbor Bottom, w/Lube Fitting -(Includes Ref. No. 10)
10	1704314SM	1	LUBE FITTING, .250 DR
11	1705897SM	2	BEARING, BALL 11/16X1
12	1732543SM	1	SPACER
13	1713199ASM	1	COVER, Arbor Housing
14	1713619SM	1	WASHER, Cupped
15	1713609SM	1	SHAFT, Arbor, 5-53/64"
16	1713196SM	1	SHIELD, Grass, Lower
17	1664019ASM	1	BLADE, Mower, 30"
18	1713089SM	1	WASHER, Hex
19	1656916SM	1	WASHER, SPRING 0.475I
20	2823471SM	1	CAPSCREW, Hex Head, 7/16-14 x 1, GR 8
21	1923903SM	1	CAPSCREW, Hex Head, 3/8-16 x 3
22	1924356SM	2	WASHER, Flat, 3/8 x 1-1/2 x 1/8
23	1715435SM	1	SPRING, EXTENSION, 1.
24	1669105SM	1	SPACER
25	1708562SM	1	LEVER ASSEMBLY
26	1924940SM	2	WASHER, Plain, 3/8
27	1707435SM	1	PULLEY ASSEMBLY Idler, Fixed, 6" Dia.
28	1928352SM	1	NUT, Hex, Whizlock, 3/8-16
29	1708966SM	1	GRIP, Lever
30	1923701SM	1	CAPSCREW, Hex Head, 3/8-16 x 2
31	1922755SM	3	WASHER, 13/32 x 1 x 1/8
32	1704926SM	1	IDLER PULLEY, Backside
33	1916965SM	1	LOCKWASHER, 3/8
34	1916950SM	1	NUT, Hex, 3/8
35	1928731SM	1	NUT, Hex, Lock, 3/8-16

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).

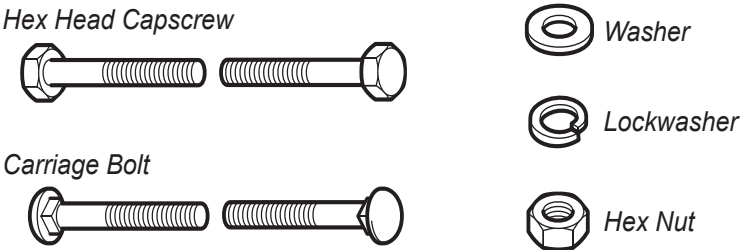
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

