



Parts Manual

Mfg. No: 2691113-00

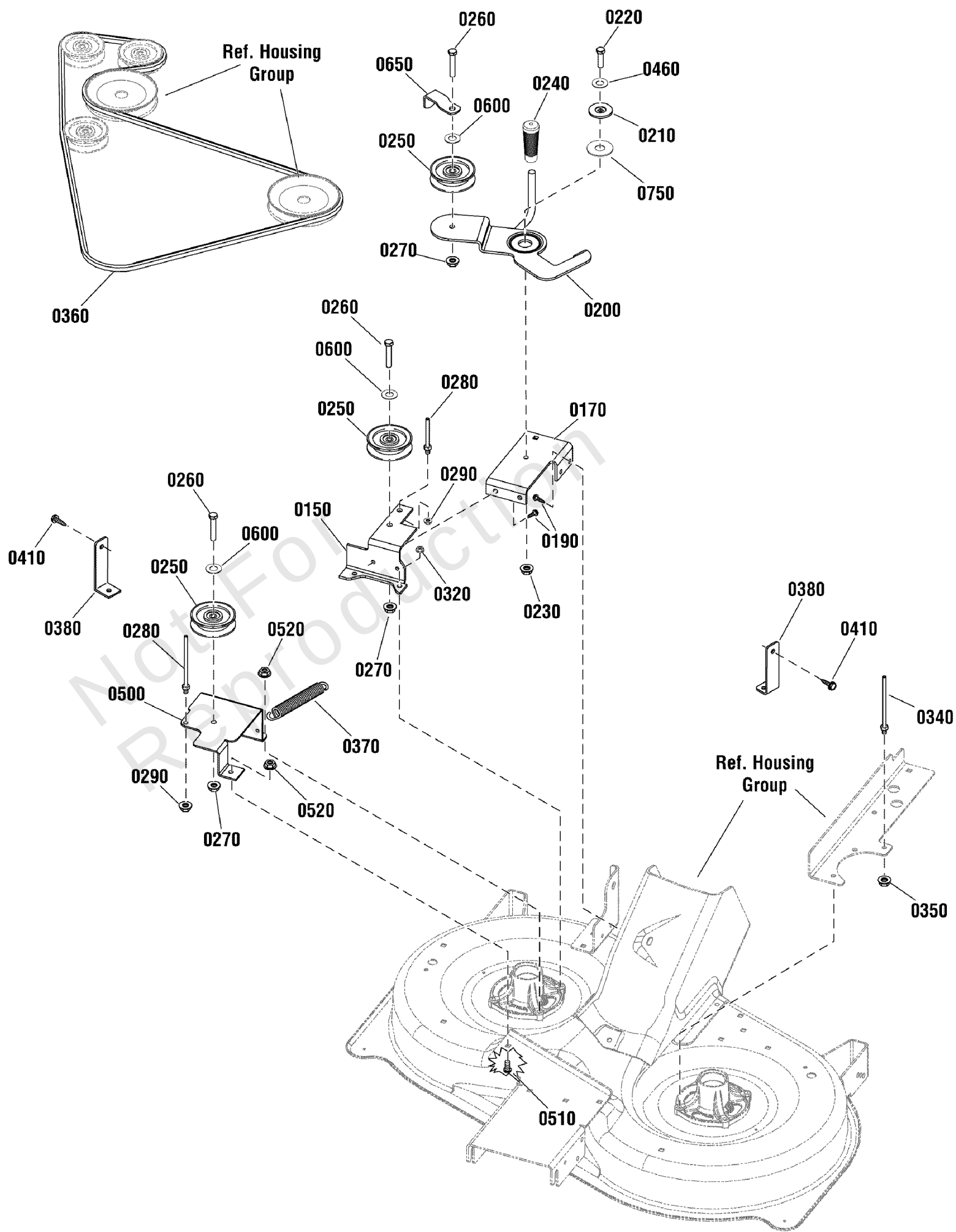
ERPX17538RDF, 96cm 17.5 Gross HP
Hydro Drive Rear Discharge Tractor

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96cm Mower Deck - Clutch Group

Note: Unless noted otherwise, use the standard torque specifications

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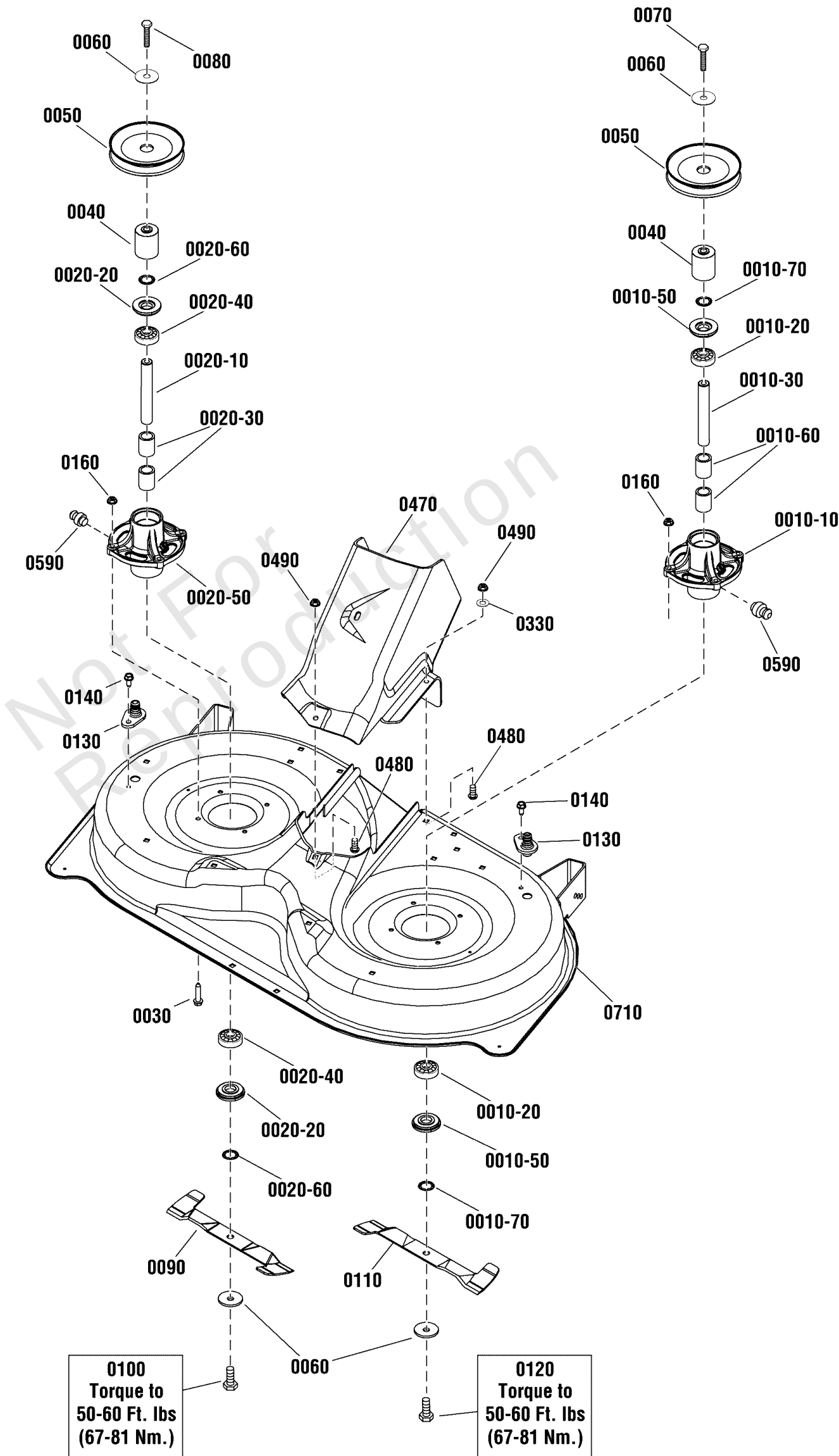
96cm Mower Deck - Clutch Group

REF NO	PART NO	QTY	DESCRIPTION
0150	885481BM	1	BRACKET, Idler, RH
0170	885516BM	1	SUPPORT, Idler Arm
0190	1664847	4	CAPSCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4
0200	885559BM	1	DECK IDLER ASSEMBLY
0210	1727935	1	SPACER, Pivot, 0.330ID 1.76OD
0220	1921333	1	CAPSCREW, Hex Head, 5/16-18 x 1, G5
0230	720145	1	NUT, Hex Flange, Center Lock, 5/16-18
0240	721120	1	GRIP
0250	885482YP	3	PULLEY, DECK IDLER
0260	1923701	3	CAPSCREW, Hex Head, 3/8-16 x 2, G5
0270	1931211	3	NUT, Hex Flange, Whiz Lock, 3/8-16
0280	885534	2	BELT GUIDE
0290	1931277	2	NUT, Hex Flange, Whiz Lock, 5/16-18
0320	1931277	2	NUT, Hex Flange, Whiz Lock, 5/16-18
0340	721974	1	BELT GUIDE, Long
0350	1931277	1	NUT, Hex Flange, Whiz Lock, 5/16-18
0360	885483	1	BELT, Deck (91.35" EL, HAA section)
0370	1715435	1	SPRING, Extension, 1
0380	885527BM	2	UPSTOP
0410	1664847	4	CAPSCREW, Hex Washer Head, 5/16-18 x 3/4
0460	1919326	1	WASHER, 5/16
0500	885556BM	1	BRACKET, Idler, Fixed
0510	1921333	1	CAPSCREW, Hex Head, 5/16-18 x 1, G5
0520	1931277	3	NUT, Hex Flange, Whiz Lock, 5/16-18
0600	1922755	3	WASHER, Flat, 3/8
0650	1677135BM	1	GUARD, Spring
0750	885649	1	SHIM

96cm Mower Deck - Housing, Arbors & Blade

Note: Unless noted otherwise, use the standard torque specifications

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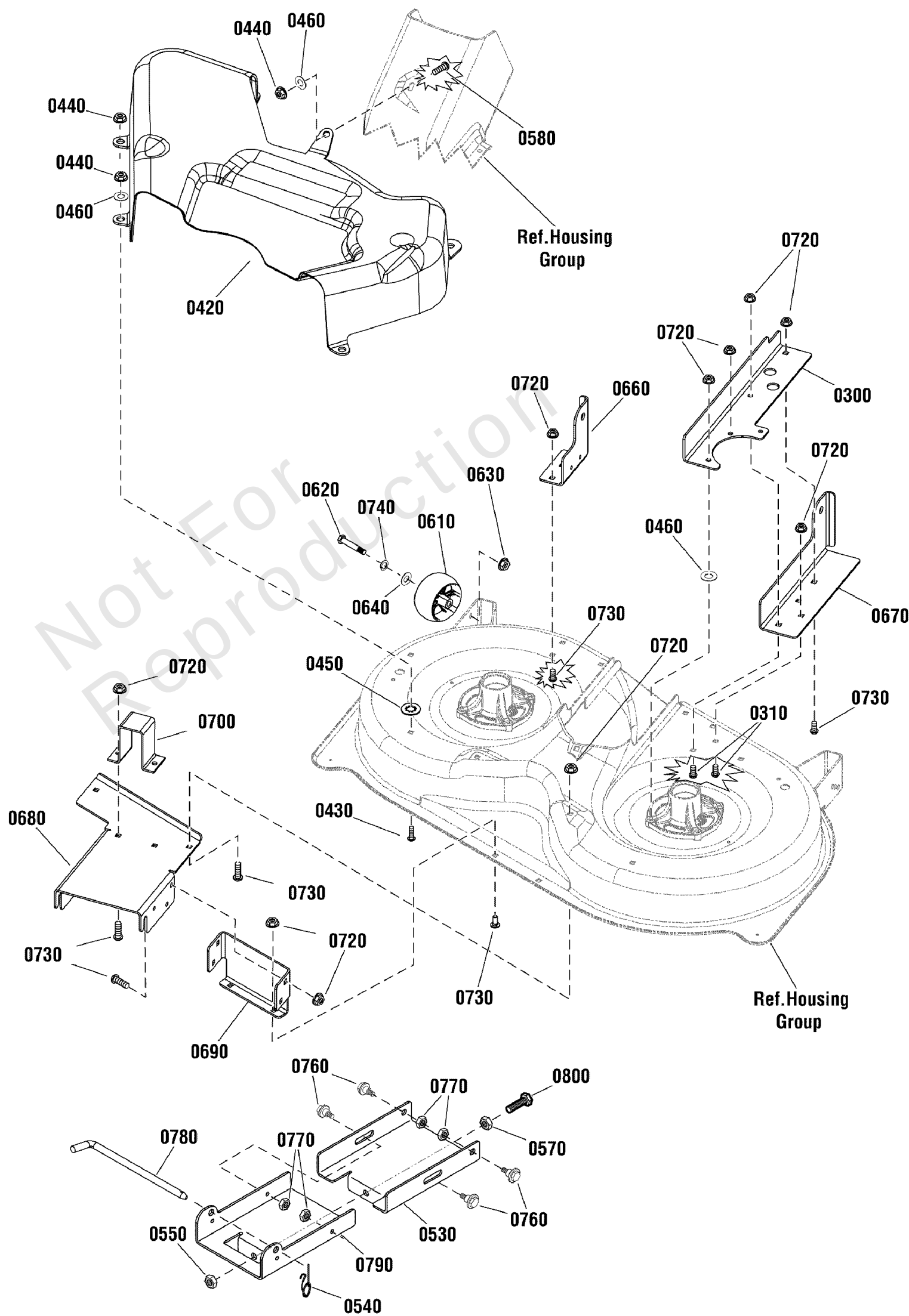
96cm Mower Deck - Housing, Arbors & Blade

REF NO	PART NO	QTY	DESCRIPTION
0010-10	1735573	2	HOUSING, Spindle
0010-20	1735399	4	BEARING, Ball, 20mm
0010-30	1735326	1	SHAFT, Spindle, LH
0010-50	1735323	4	SHIELD, Arbor
0010-60	1735328	4	SPACER, Bearing
0010-70	1960766	4	RING, Self Locking
0020-10	885420	1	SHAFT, Spindle, RH (LH Thread)
0020-20	1735323	4	SHIELD, Arbor
0020-30	1735328	4	SPACER, Bearing
0020-40	1735399	4	BEARING, Ball, 20mm
0020-50	1735573	2	HOUSING, Spindle
0020-60	1960766	4	RING, Self Locking
0030	1930600	8	CAPSCREW, Hex Washer Head, Taptite, 5/16-18 x 1-1/2
0040	1750338	2	SPACER, Mower Drive
0050	1737835	2	PULLEY, Deep Groove
0060	1656916	4	WASHER, Spring, 0.475ID x 1-3/4 OD
0070	1926110	1	CAPSCREW, Hex Head, 7/16-14 x 2-3/4, G5
0080	885456	1	CAPSCREW, Socket Head, 7/16-14 x 2-3/4, LH
0090	885418BM	1	BLADE, RH, 19.5"
0100	885455	1	CAPSCREW, Socket Head, 7/16-14 x 1, LH
0110	885419BM	1	BLADE, LH, 19.5"
0120	1920676	1	CAPSCREW, Hex Head, 7/16-14 x 1, G5
0130	1735716	2	ADAPTER, Washout Port
0140	1664847	2	CAPSCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4
0160	1931277	6	NUT, Hex Flange, Whiz Lock, 5/16-18
0330	1919326	3	WASHER, 5/16
0470	885460	1	DECK, CENTER CAP
0480	1931333	3	BOLT, Carriage, Short Neck, 5/16-18 x 3/4, G5
0490	1931277	3	NUT, Hex Flange, Whiz Lock, 5/16-18
0590	1704314	2	FITTING, Grease
0710	885557BM	1	DECK ASSEMBLY

96cm Mower Deck - Support Group

Note: Unless noted otherwise, use the standard torque specifications

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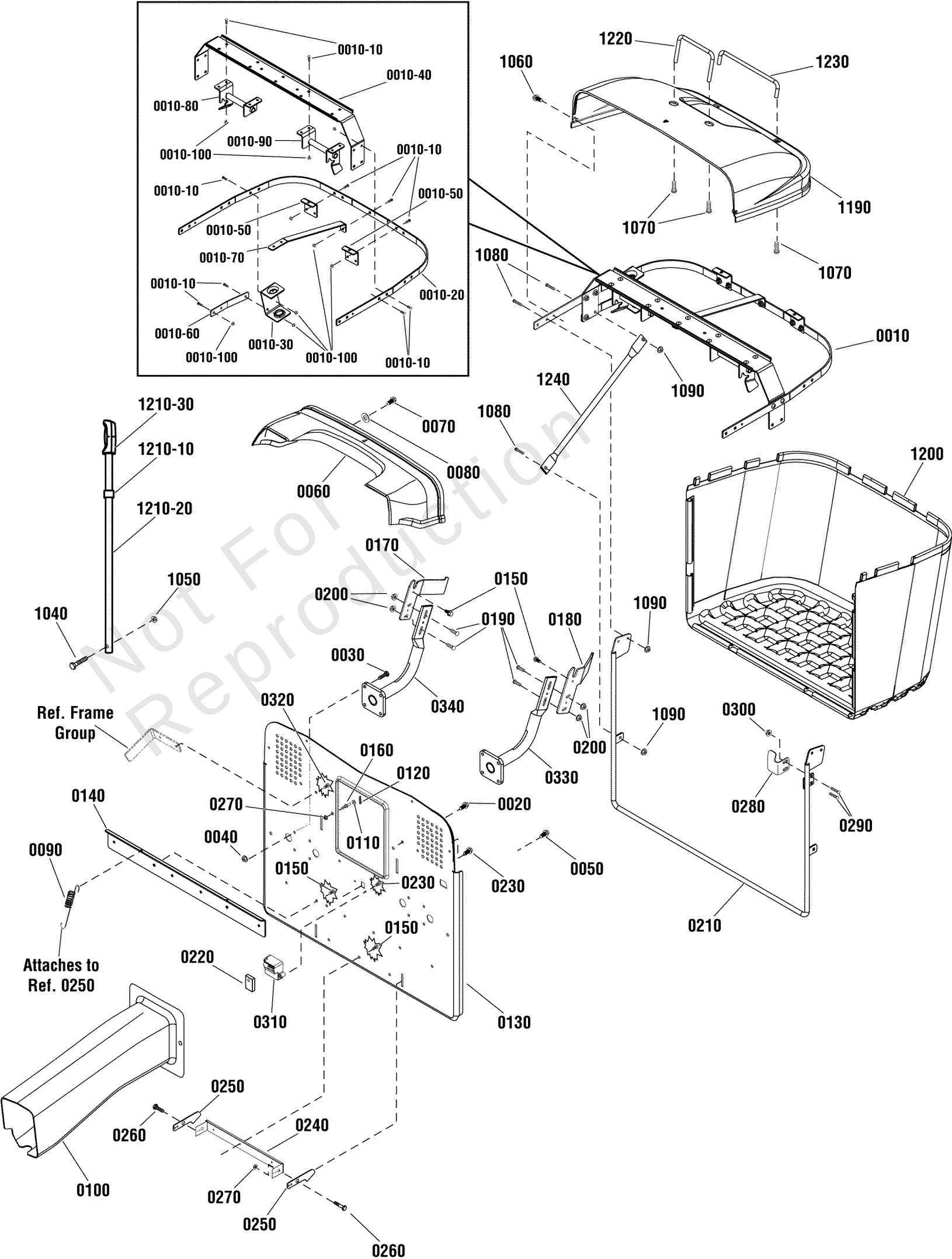
96cm Mower Deck - Support Group

REF NO	PART NO	QTY	DESCRIPTION
0300	885526BM	1	BRACKET, Rear Lift, LH
0310	1931333	2	BOLT, Carriage, Short Square Neck, 5/16-18 x 3/4, G5
0420	885543	1	COVER, Pulley
0430	1931333	5	BOLT, Carriage, Short Neck, 5/16-18 x 3/4, G5
0440	1931277	6	NUT, Hex Flange, Whiz Lock, 5/16-18
0450	5025498	6	NUT, Push On, 5/16
0460	1919326	6	WASHER, 5/16
0530	885734BM	1	BRACKET, Front Connector
0540	2176012	1	RETAINER, Pin Spring
0550	1960379	1	NUT, Hex Lock, ESNA LIGHT, 1/2-13
0570	1913744	1	NUT, Hex Jam, 1/2-13
0580	720049	1	BOLT, Carriage, 5/16-18 x 5/8
0610	1714760	2	WHEEL, Gauge
0620	2108765	2	BOLT, 3/8-16 x 2-3/4
0630	1960687	2	NUT, Hex Flange, ESNA, 3/8-16
0640	1960170	2	WASHER, 1/2
0660	885462BM	1	BRACKET, Deck, Rear
0670	885463BM	1	BRACKET, Rear Lift, LH
0680	885738BM	1	SUPPORT, Deck Front
0690	885740BM	1	BRACKET, Front Support
0700	885519BM	1	BRACKET, Front Upstop
0720	1931277	14	NUT, Hex Flange, Whiz Lock, 5/16-18
0730	1931333	14	BOLT, Carriage, Short Neck, 5/16-18 x 3/4, G5
0740	0020X3MA	2	WASHER, SPRING .52X.99
0760	1732426	4	BOLT, Shoulder, 5/16-18 x .13/16, 1/2" Thread Length
0770	1931277	4	NUT, Hex Flange, Whiz Lock, 5/16-18
0780	1731414	1	ROD, Latch
0790	885699BM	1	BRACKET, Front Hanger
0800	885710	1	BOLT, 1/2 x 3

Collector Group - 280 Liter

Note: Unless noted otherwise, use the standard torque specifications

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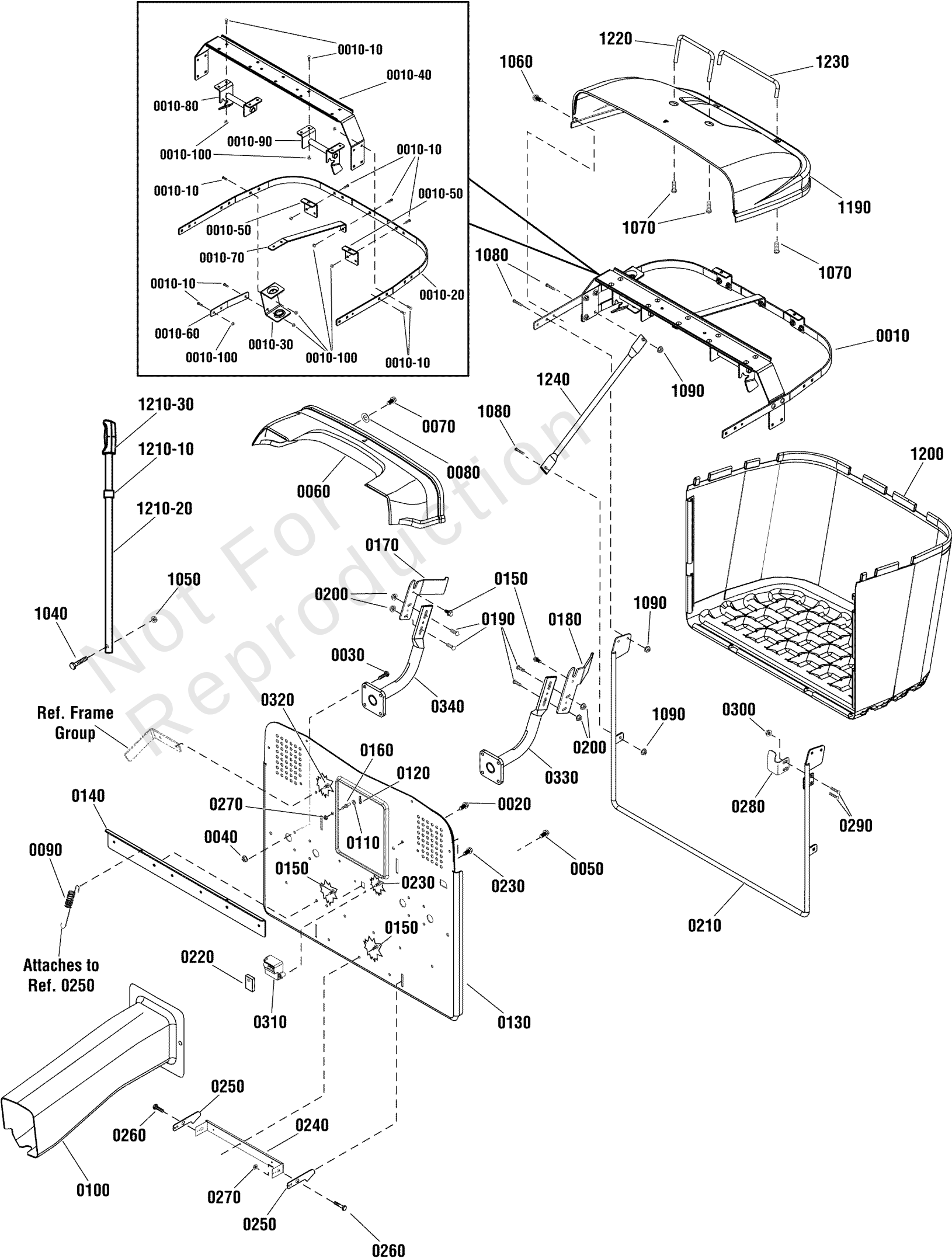
Collector Group - 280 Liter

REF NO	PART NO	QTY	DESCRIPTION
0010-10	720057	23	BOLT, Carriage, 1/4-20 X 5/8
0010-20	885413A	1	FRAME, Upper
0010-30	885416A	1	SUPPORT, Dump Handle
0010-40	885507A	1	CROSS BRACE
0010-50	885514A	2	BRACKET, Mounting, Long
0010-60	885520A	1	SUPPORT STRAP, Dump Handle
0010-70	885525A	1	SUPPORT, Back, Frame
0010-80	885561A	1	BAGGER LOCATOR ASSEMBLY, LH
0010-90	885562A	1	BAGGER LOCATOR ASSEMBLY, RH
0010-100	1930641	23	NUT, Hex Flange, 1/4-20
0020	1664847	4	CAPSCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4
0030	1931202	8	CAPSCREW, Hex Washer Head, Taptite, 5/16-18 x 1-1/4
0040	720139	10	NUT, Hex Flange, Serrated, 5/16-18
0050	1664847	2	CAPSCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4
0060	885400	1	COVER, Transition
0070	1664847	4	CAPSCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4
0080	1919326	4	WASHER, 5/16
0090	722494	2	SPRING, Extension
0100	885461	1	CHUTE
0110	1960170	2	WASHER, 1/2
0120	1960074	2	CLIP, Hair Pin
0130	885651A	1	BACK PLATE
0140	885470A	1	BRACE, Lower Back Plate
0150	1664847	7	CAPSCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4
0160	721221	2	PIN, Threaded Shoulder
0170	885494A	1	PLATE, Rotation, RH
0180	885473A	1	PLATE, Rotation, LH
0190	1931333	4	BOLT, Carriage, Short Neck, 5/16-18 x 3/4, G5
0200	720139	4	NUT, Hex Flange, Serrated, 5/16-18
0210	885566A	1	FRAME, Bagger
0220	885573	1	SWITCH, Bag Full
0230	880760	2	SCREW, Plastite, #10-14 x 7/8
0240	885497A	1	BRACKET, Bagger Latch
0250	885496A	2	LATCH, Bagger
0260	720091	2	BOLT, Shoulder
0270	720142	4	NUT, Hex Flange, Center Lock, 3/8-16
0280	885489A	1	PLATE, Switch
0290	720057	2	BOLT, Carriage, 1/4-20 x 5/8
0300	1930641	2	NUT, Hex Flange, Whiz Lock, 1/4-20
0310	885618	1	COVER, Bag Full Switch
0320	722858	4	CAPSCREW, 5/16-18 x 3/4
0330	885652A	1	SUPPORT, Bagger, LH
0340	885653A	1	SUPPORT, Bagger, RH
1040	720033	1	CAPSCREW, Hex Flange Lock, 1/4-20 x 1-1/4
1050	720146	1	NUT, Hex Flange, Lock, 1/4-20
1060	885564	2	SCREW, Torx, 1/4-20
1070	7091016	4	SCREW, Hex Washer Head, Self Tap, 1/4-20 x 5/8
1080	703841	8	BOLT, 1/4-20X0.625
1090	1930641	8	NUT, Hex Flange, Whiz Lock, 1/4-20
1190	885401	1	COVER, Collector, Red
1200	885510	1	BAG, Collector

Collector Group - 280 Liter

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Collector Group - 280 Liter

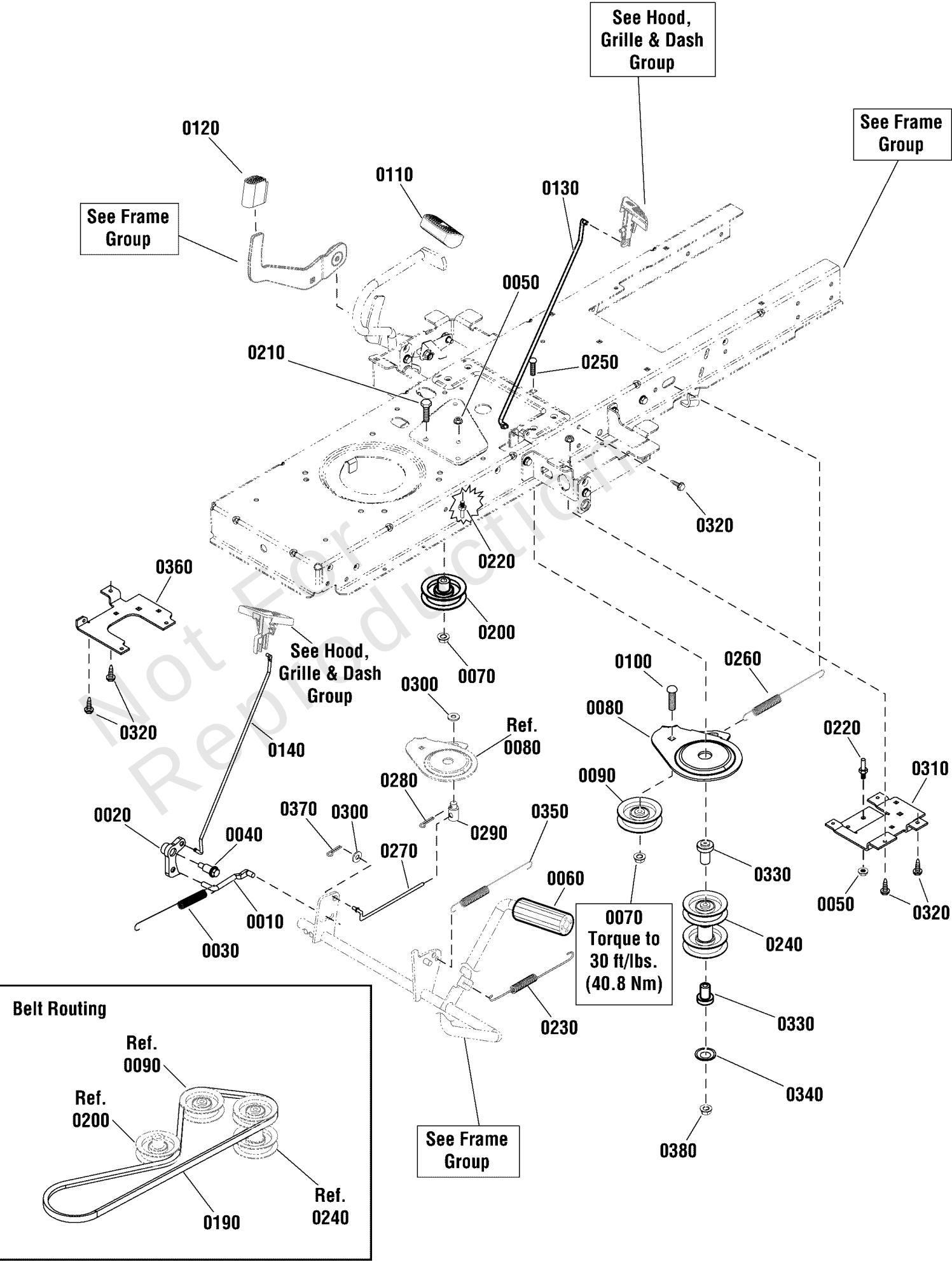
REF NO	PART NO	QTY	DESCRIPTION
1210-10	885433	1	ADJUSTER, Bagger Handle
1210-20	885518A	1	HANDLE, Bagger
1210-30	1723359	1	GRIP, Lift Rod
1220	885425A	1	HANDLE, Front
1230	885430A	1	HANDLE, Back
1240	885429A	2	STIFFENER

Not For Reproduction

Controls Group

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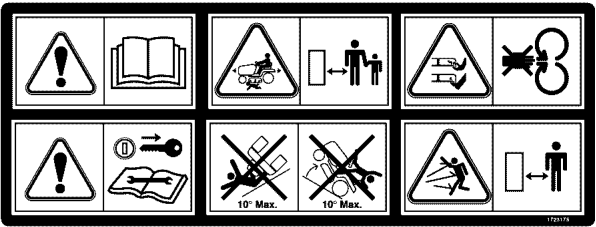
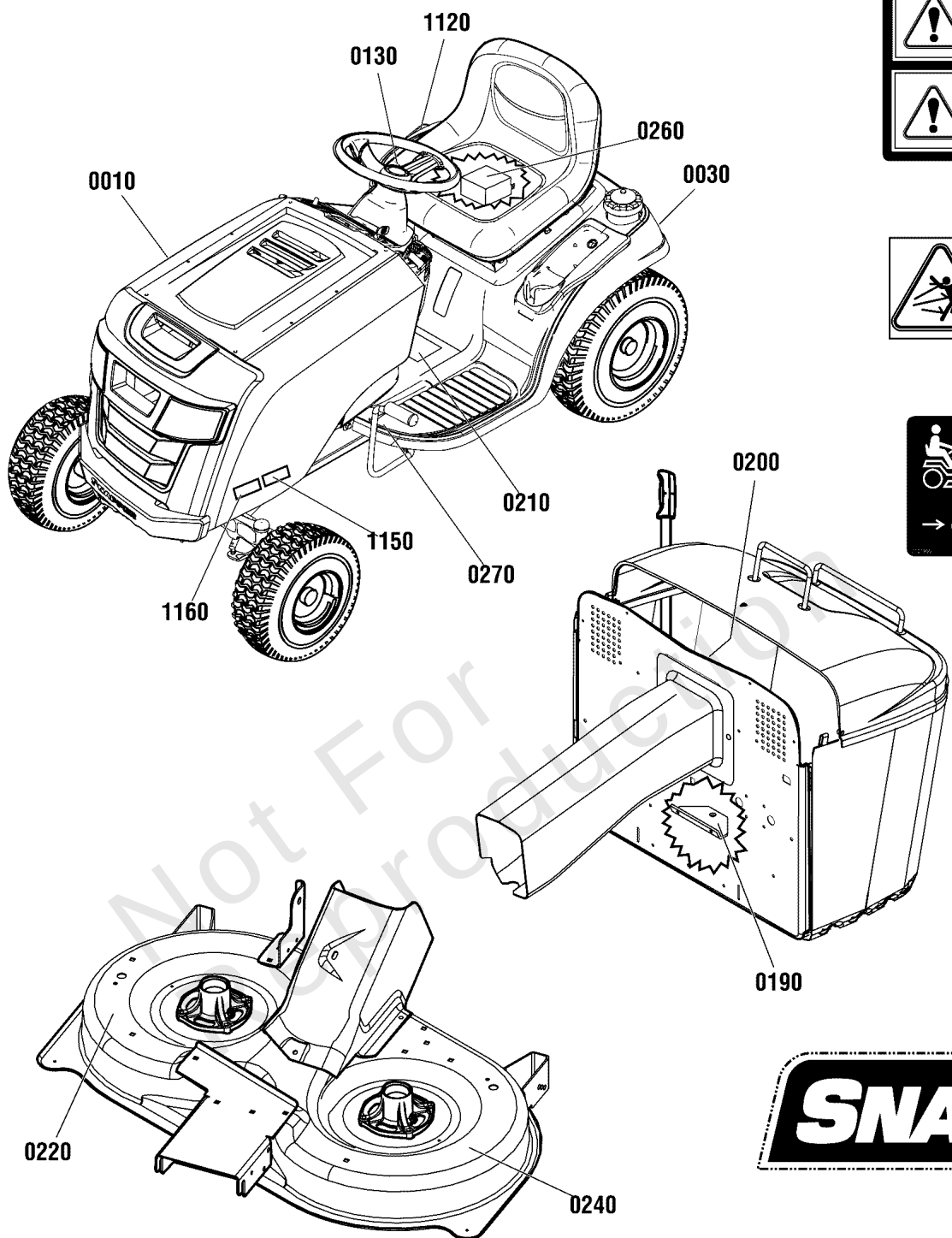
Controls Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1727899SM	1	ROD, Cruise Latch, 2.83"
0020	1727897SM	1	LATCH, Cruise
0030	2159181SM	1	SPRING, Extension 7-3/4
0040	1728976SM	1	BOLT, Shoulder, 5/16-18 x 1-5/8
0050	015X79MA	3	NUT, Flange, 5/16-18, G5
0060	1727261SM	1	PEDAL-BRAKE BLACK RUB
0070	703158	2	NUT, Hex Flange, ESNA, 3/8-16
0080	885410AYP	1	BRACKET, Idler Front Movable
0090	885645YP	1	PULLEY, 3 OD Plastic
0100	703227	1	BOLT, 3/8-16 X 1.25
0110	1721675SM	1	PAD, Foot Pedal, Forward
0120	1727259SM	1	PAD, Foot Pedal, Reverse
0130	1727267SM	1	ROD, Parking Brake
0140	1738760YP	1	ROD, Cruise Latch
0190	885895YP	1	BELT, Primary, M/D (47.89" EL, HA Section)
0200	885894YP	1	IDLER, Backside
0210	1921971SM	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4, G5
0220	885534YP	2	BELT GUIDE
0230	885421YP	1	SPRING, Extension
0240	885426YP	1	PULLEY, Secondary Stack
0250	885577YP	1	BOLT, Carriage, 3/8-16 x 5
0260	1729620SM	1	SPRING, Extension 7-1/2"
0270	885683YP	1	ROD, Clutch
0280	7091809YP	1	PIN, COTTER 1/8 X 1.2
0290	021920ZMA	1	NUT, Adjusting
0300	71072MA	2	WASHER, FLAT .406X.81
0310	885684BMYP	1	BRACKET, Stack Pulley, Left
0320	703228	4	SCREW, 5/16-18 X .75
0330	885575YP	2	SPACER
0340	1931942SM	1	NUT, Push Pal, 3/8
0350	1721995SM	1	SPRING, Extension, 5/8 x 6-5/8
0360	885685BMYP	1	BRACKET, Stack Pulley, Right
0370	703312	1	PIN, COTTER, 3/32X.75
0380	015X84MA	1	NUT, Hex Flange, Centerlock, 3/8-16

Decal Group

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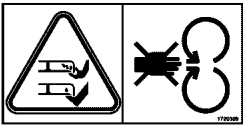
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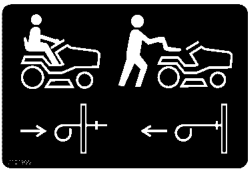
0210



0200



0220



0030



0190



0260



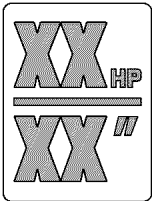
0130



0270



0010



0240



1150



1160

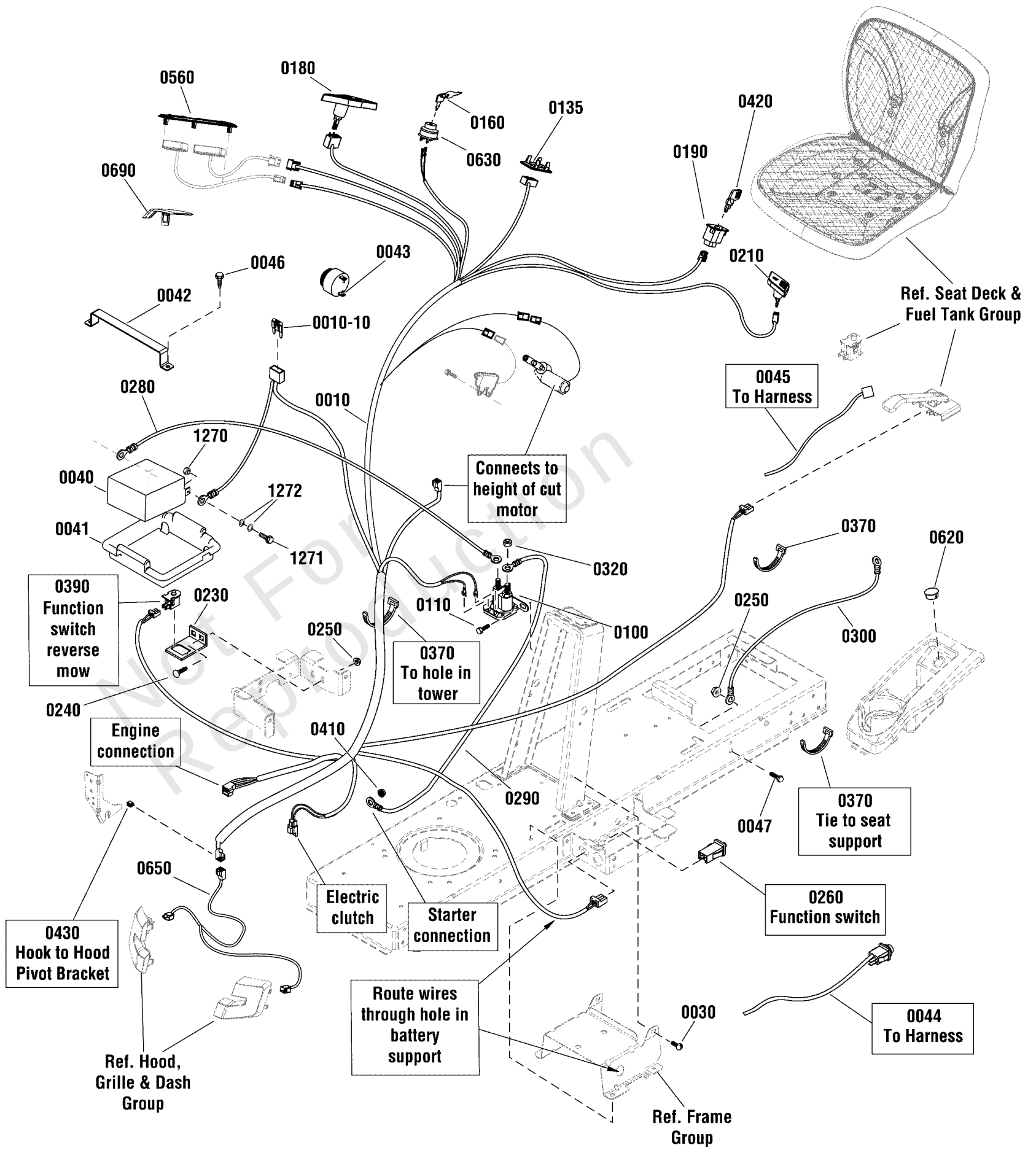
Decal Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1751632YP	2	DECAL, Logo, Hood
0030	7101935YP	1	DECAL, Roll Release
0130	1739085YP	1	DECAL, Steering Wheel
0190	48X511MA	1	DECAL, Drawbar Warning Symbol
0200	1721107SM	1	DECAL, Discharge Tube Symbols
0210	1723175SM	1	DECAL, Tunnel
0220	1720389SM	2	DECAL-DANGER ROTATING
0240	885625YP	1	DECAL, Cutting Width, 38" (96cm)
0240	1753467YP	2	DECAL, Cutting Width, 42" (107cm)
0260	885627YP	1	DECAL, Battery
0270	48X736MA	1	DECAL, Clutch/Brake
1120	1730264SM	1	DECAL, Height of Cut
1150	885900YP	2	DECAL, RPX Series
1150	885902YP	2	DECAL, RXT Series
1160	885873YP	1	DECAL, Model, ERPX17538RDF
1160	885874YP	1	DECAL, Model, ERPX1838RDF
1160	885897YP	1	DECAL, Model, ERXT2242RDF
1160	885898YP	1	DECAL, Model, ERXT2642RDF

Electrical Group

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Electrical Group

REF NO	PART NO	QTY	DESCRIPTION
0010	885904YP	1	WIRING HARNESS
0010-10	-----	1	* FUSE, 20 Amp
0030	1930601	5	CAPSCREW, Hex Washer Head, Taptite, 5/16-18 x 5/8
0040	-----	1	BATTERY, 12 Volt
0041	885428YP	1	CONTAINER, Battery
0042	885511BMYP	1	HOLD DOWN, Battery
0043	1720117SM	1	BUZZER, Bag Full
0044	1001845MA	1	SWITCH, Bagger
0045	885692YP	1	HARNESS, Bag Full
0046	703228	2	SCREW, 5/16-18 X .75
0047	7091811SM	1	HFLB, 5/16C X5/8 GR5
0100	1728963SM	1	SOLENOID
0110	B4300GS	2	CAPSCREW, Hex Head, 1/4-20 x 1/2
0135	1722611SM	1	PLUG-HOLE BLACK
0160	1750464YP	1	KEY, Ignition, Blister Pack
0180	1738982YP	1	SWITCH, PTO
0190	1726556SM	1	SWITCH, Reverse Mow
0210	1738983YP	1	SWITCH, Light
0230	1728026BMYP	1	SUPPORT, RMO Switch
0240	703185	2	BOLT, Round Head, Short Square Neck
0250	1931277SM	3	NUT, Flange, 5/16-18, GR5
0260	1732006SM	1	SWITCH, Push Button (NO/NC)
0280	885616YP	1	BATTERY CABLE
0290	1721830SM	1	CABLE, #6 x 25
0300	1713163SM	1	CABLE, # 6 x 26.0
0320	2860750SM	2	NUT-HEX KEPS 5/16-24
0370	1701011SM	14	TIE, Self Lock
0390	1732004SM	1	SWITCH-PUSH BUTTON
0410	703233	1	NUT, 1/4-20, GR5
0420	1726557SM	2	KEY, No Mow
0430	2172434SM	1	CLIP- WIRE DIA .390
0560	1752934YP	1	PLUG, Dash
0620	1732007SM	1	PLUG, Hole
0630	1737959YP	1	SWITCH, Ignition
0650	1751941YP	1	HARNESS, Headlight
0690	1753240YP	1	PLUG, Starter Insert
1270	51716	2	NUT, M5 x 0.8
1271	52618	2	SCREW, M5 x 0.8 x 12
1272	51713	4	WASHER, M5

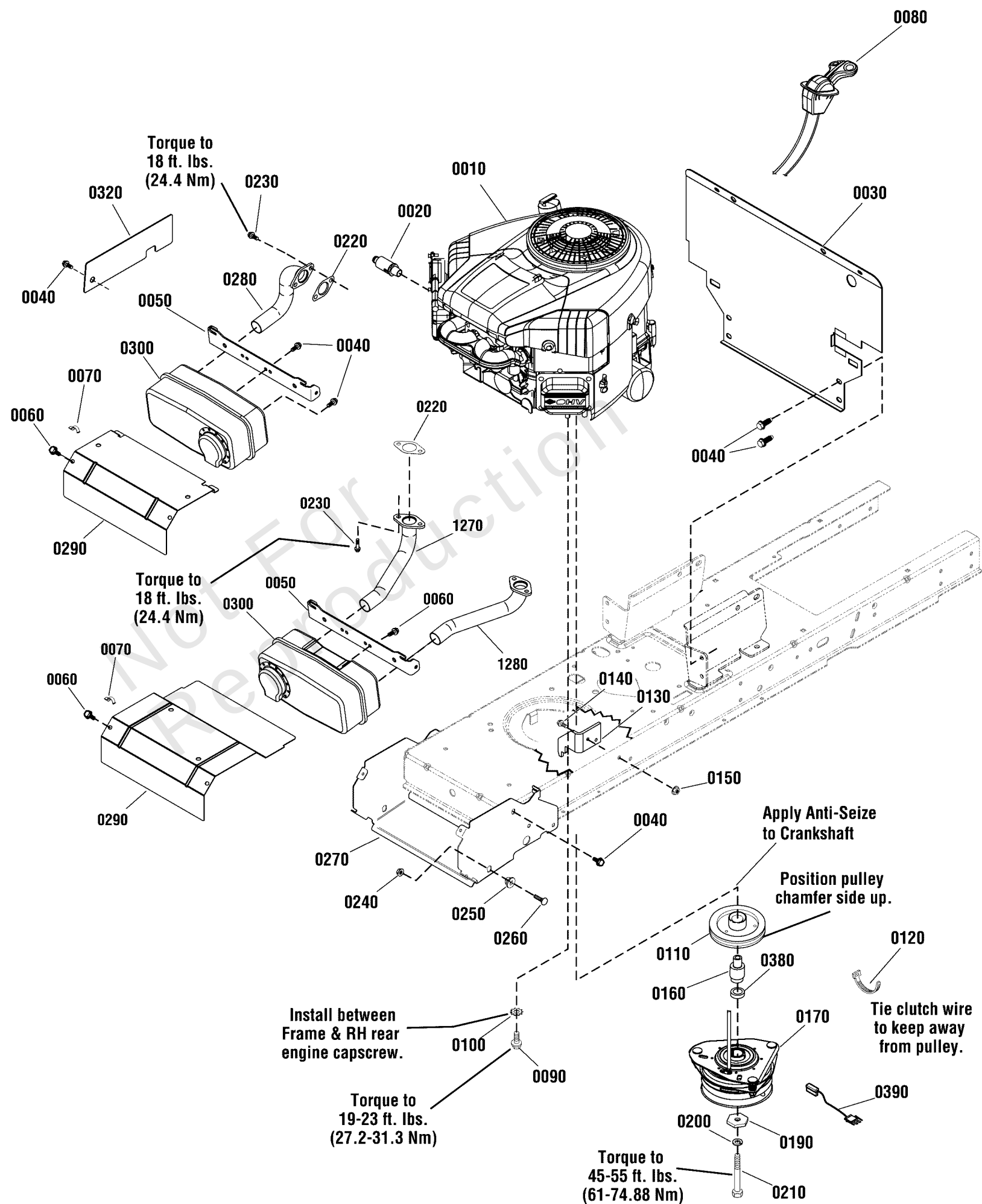
Footnotes:

Note* See your local hardware store for replacement fuses.

Engine Group

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Engine Group

REF NO	PART NO	QTY	DESCRIPTION
0010	31G777-0204-B1	1	* ENGINE, 17.5 Gross HP Briggs & Stratton, Model 31G777-0204-B1
0010	405577-3804-B1	1	* ENGINE, 18 Gross HP Briggs & Stratton, Model 405577-3804-B1
0010	407777-0001-B1	1	* ENGINE, 22 Gross HP Briggs & Stratton, Model 407777-0001-B1
0010	405577-3804-B1	1	* ENGINE, 26 Gross HP Briggs & Stratton, Model 405577-3804-B1
0020	1750159YP	1	VALVE, Shut Off Oil Drain
0030	885840BMYP	1	HEAT SHIELD
0040	1930601SM	10	SCREW, Hex Washer Head, Taptite, 5/16-18 x 5/8
0050	1727976ASM	1	SUPPORT, Muffler
0060	1925003SM	2	SCREW, Hex Washer Head, Taptite, 1/4-20 x 1/2 -(Qty 4 used on 18 Gross HP Models)
0070	2834683SM	1	WIRE CLIP
0080	1751734YP	1	THROTTLE CONTROL, Choke-A-Matic -(Single)
0080	1750217YP	1	THROTTLE CONTROL, Choke-A-Matic -(Twin)
0090	2827187SM	4	SCREW, Hex Washer, Taptit, 3/8-16 x 1
0100	2820427SM	1	LOCKWASHER, External Tooth
0110	1732576SM	1	PULLEY & HUB ASSEMBLY, Engine
0120	1701011SM	2	TIE, Self Locking
0130	885535AYP	1	BRACKET, Electric Clutch Torque
0140	1921332SM	2	CAPSCREW, Hex Head, 5/16-18 x 3/4, G5
0150	1931277SM	2	NUT, Hex Flange, Whiz Lock, 5/16-18
0160	885679YP	1	SPACER, Electric Clutch
0170	885680YP	1	CLUTCH, Electric, GT1A-EH07
0190	1708264SM	1	WASHER, HEX, 0.453ID
0200	1918199SM	1	LOCKWASHER, Spring
0210	7102075YP	1	CAPSCREW, Hex Head, 7/16-20 x 5
0220	1731214SM	1	GASKET, Exhaust -(Qty 2 used on Twin)
0230	690341	2	SCREW -(Qty 4 used on Twin)
0240	1931277SM	2	NUT, Hex Flange, Whiz Lock, 5/16-18
0250	1728086SM	2	PIVOT, Hood
0260	1931335SM	2	BOLT, Carriage, Short Neck, 5/16-18 x 1
0270	1738265AYP	1	BRACKET, Muffler
0280	1728959SM	1	EXHAUST PIPE, Single
0290	1727996ASM	1	HEAT SHIELD, Single
0290	1727997ASM	1	HEAT SHIELD, Twin
0300	885615YP	1	MUFFLER, Single -(Used on 17.5 Gross HP Models)
0300	1727994SM	1	MUFFLER, Twin -(Used on 18 Gross HP Models)
0300	885954YP	1	MUFFLER, Twin -(Use on 22 & 26 Gross HP Models)
0320	1736025BMYP	1	GUARD, Pulley
0380	885810YP	1	SPACER, Electric Clutch
0390	885815YP	1	HARNESS, Ogura
1270	1727979SM	1	EXHAUST PIPE, RH -(Twin)
1280	1727980SM	1	EXHAUST PIPE, LH -(Twin)

Footnotes:

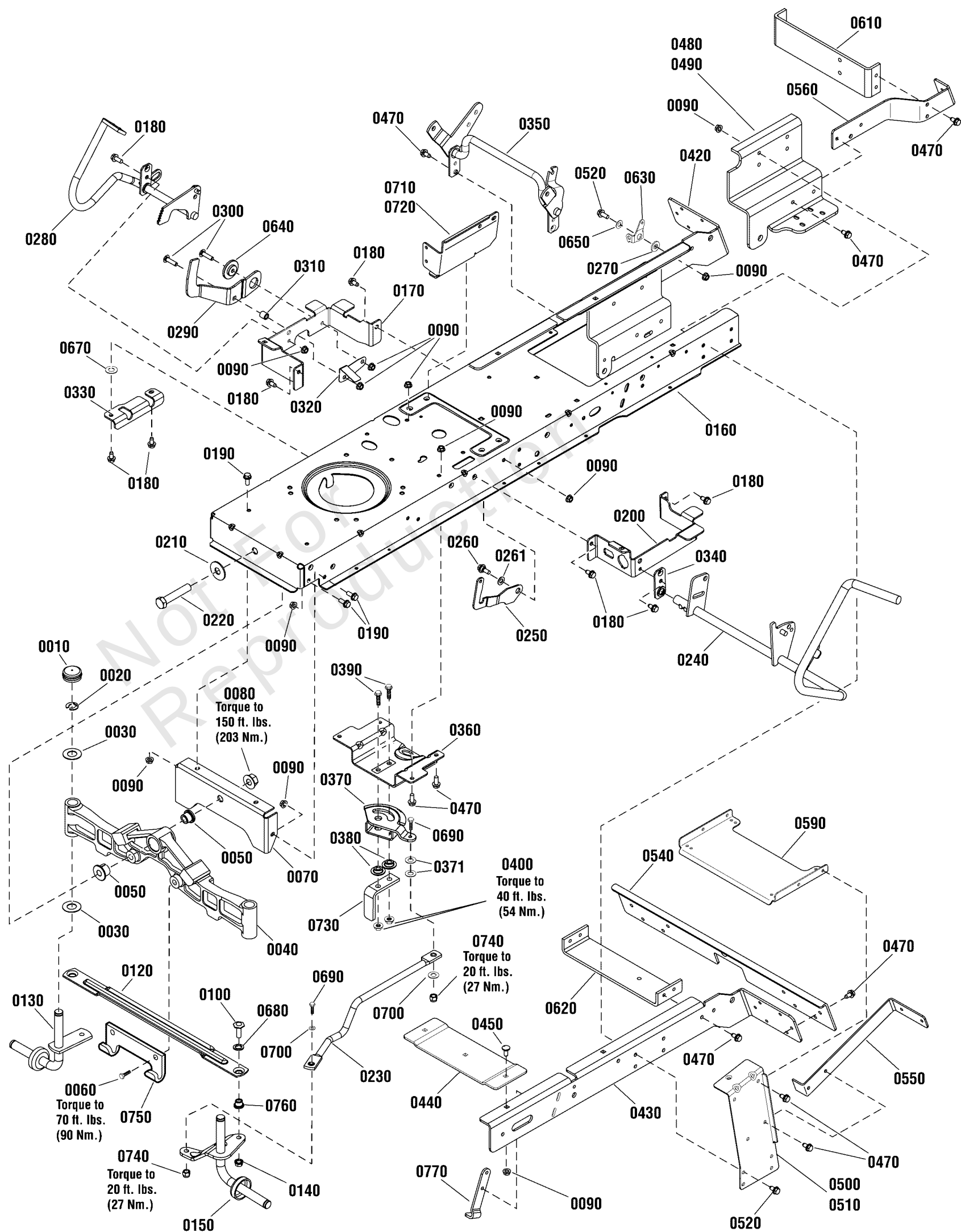
Note: ** Purchase engine parts from engine manufacture dealer.

Note* To verify your specific engine model, please reference the ID Tag located on your engine. See your local Briggs & Stratton distributor for parts and service.

Frame & Front Axle Group

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Frame & Front Axle Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1734135SM	2	CAP, Hub
0020	1611710SM	2	E-RING, 3/4
0030	2860183SM	4	WASHER, Flat, 3/4
0040	1728018SM	1	AXLE, Front
0050	1730186SM	2	BUSHING
0060	1960652SM	2	SCREW, Hex Flange, Whiz Lock, 7/16-14 x 1-1/2
0070	1727902SM	1	PLATE, Axle Support
0080	2860646SM	1	NUT, Hex Flange Two-Way Lock, 5/8-11
0090	1931277SM	28	NUT, Hex Flange, Whiz Lock, 5/16-18
0100	1960032SM	2	SCREW, Hex Head, 3/8-16 x 1 1/4
0120	1751964YP	1	TIE ROD
0130	1727872ASM	1	SPINDLE & CUP ASSEMBLY, R.H.
0140	1930645SM	2	NUT, Hex, Flange, Locking, 3/8-16
0150	1751922YP	1	SPINDLE & ARM ASSEMBLY, L.H.
0160	885656BMYP	1	* FRAME
0170	1727904SM	1	SUPPORT, Front Footrest R.H.
0180	1930601SM	8	SCREW, Taptite, 5/16-18 x 5/8
0190	93571MA	6	CAPSCREW, Hex Head, Flange Whiz Lock, 5/16-18 x 3/4
0200	885536AYP	1	SUPPORT, Front Footrest L.H.
0210	1960035SM	1	WASHER-0.625(0.64IDX1
0220	2860744SM	1	CAPSCREW, Hex Head, 5/8-11 x 3 1/4
0230	1738051YP	1	LINK, Drag
0240	885694YP	1	PEDAL ASSEMBLY, Brake
0250	1735595YP	1	LATCH, Brake Lock
0260	1729576SM	1	BOLT, Shoulder, 5/16-18 x 15/32
0261	7014296YP	1	WASHER
0270	1727935SM	1	SPACER-PIVOT 0.330ID
0280	1736714AYP	1	PEDAL ASSEMBLY, Forward
0290	1727246SM	1	PEDAL, Reverse
0300	1960223SM	2	BOLT-RD HD SH SQ NK 5
0310	1728024SM	1	SPACER, Foot Pedal
0320	1728025BMYP	1	ACTUATOR, RMO Switch
0330	885591AYP	1	BRACKET, Pedal Pivot
0340	1727911ASM	1	PLATE, Bearing
0350	885579AYP	1	LIFT SHAFT ASSEMBLY
0360	1727940SM	1	BRACKET, Sector Support
0370	1751110YP	1	GEAR, Steering
0371	703298	2	WASHER, 5/16
0380	1728122SM	2	SPACER, Sector Gear
0390	1960032SM	2	SCREW, Hex Head, 3/8-16 x 1 1/4
0400	1930645SM	2	NUT, Hex Flange, Two Way Lock, 3/8-16
0420	885508AYP	1	BRACKET, Rear Frame, RH
0430	885509AYP	1	BRACKET, Rear Frame, LH
0440	885532AYP	1	BRACE, Middle Cross
0450	703185	5	BOLT, Round Head, Short Square Neck
0470	703228	33	SCREW, 5/16-18 X .75
0480	885474AYP	1	BRACKET, Transaxle, RH
0490	885475AYP	1	BRACKET, Transaxle, LH

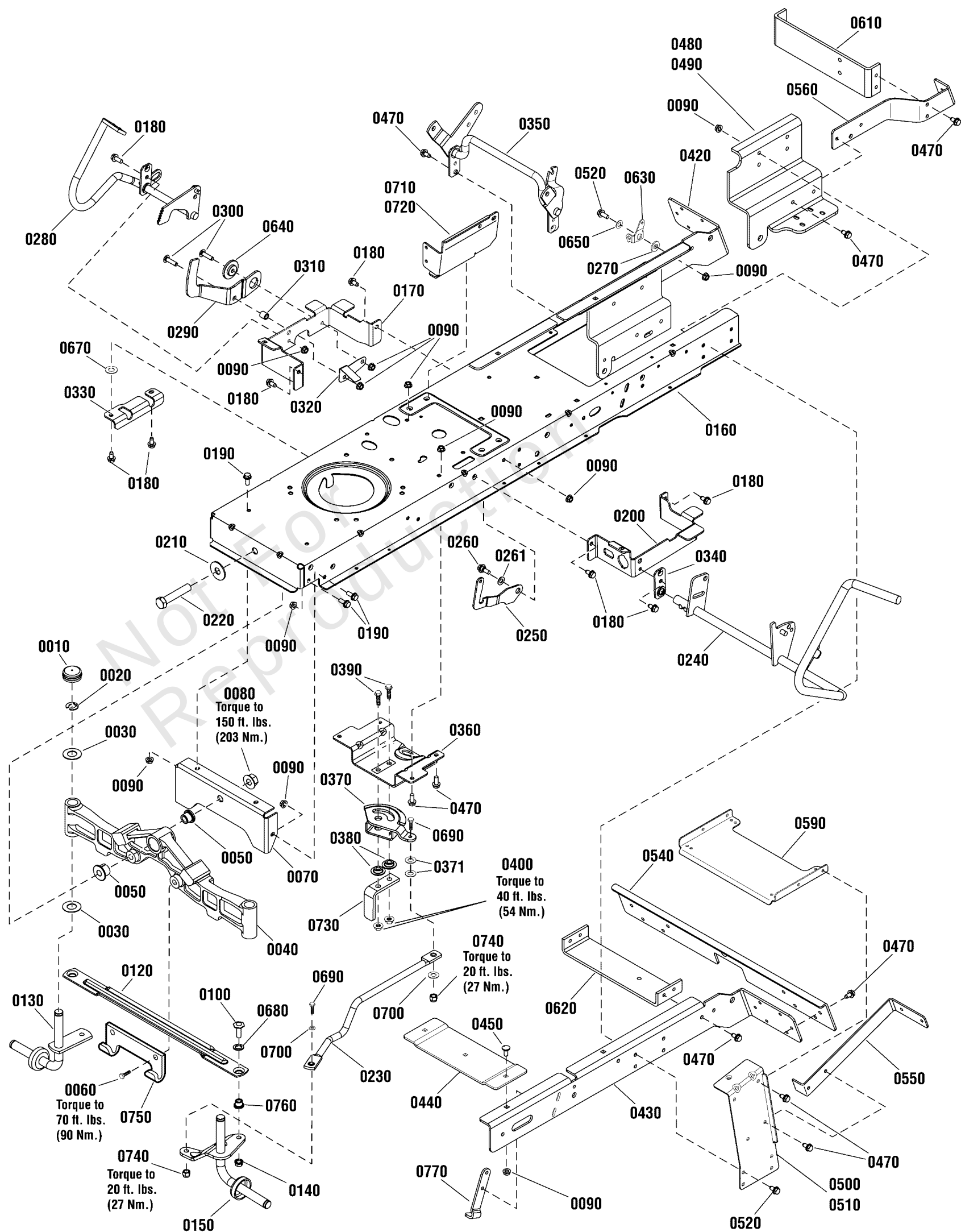
Footnotes:

NOTE: *This Frame Group was used on the "00" versions and being upgraded to "01" version parts.

Frame & Front Axle Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691113-00



Frame & Front Axle Group

REF NO	PART NO	QTY	DESCRIPTION
0500	885411AYP	1	SUPPORT, Deck, R.H.
0510	885412AYP	1	SUPPORT, Deck, L.H.
0520	001X84MA	9	CAPSCREW, Hex Head, 5/16-18 x 1
0540	885469AYP	1	BRACKET, Middle Back Plate
0550	885466AYP	2	SUPPORT, Upper, Back Plate
0560	885467AYP	2	SUPPORT, Lower, Back Plate
0590	885503AYP	1	BRACE, Cross Deck Support
0610	885890YP	1	BRACKET, Torque
0620	885486AYP	1	BRACKET, Idler Mount
0630	1728990ASM	1	CLEVIS, Lift
0640	1727935SM	1	SPACER-PIVOT 0.330ID
0650	1960044SM	1	WASHER-0.312(0.33IDX1
0670	1919326SM	2	WASHER, 5/16
0680	1960703SM	2	WASHER, 5/8
0690	1921977SM	2	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
0700	703302	2	WASHER, 5/16
0710	885695BMYP	1	BRACKET, Tower Support, LH
0720	885696BMYP	1	BRACKET, Tower Support, RH
0730	885791YP	1	UPSTOP
0740	1935048SM	2	NUT, Hex Flange, Two Way Lock, 5/16-18
0750	1721918ASM	1	HOOK, Mower, Hitch
0760	1731912SM	2	BUSHING, 3/8 ID x 5/8 OD x 1/2"
0770	885527AYP	2	UPSTOP

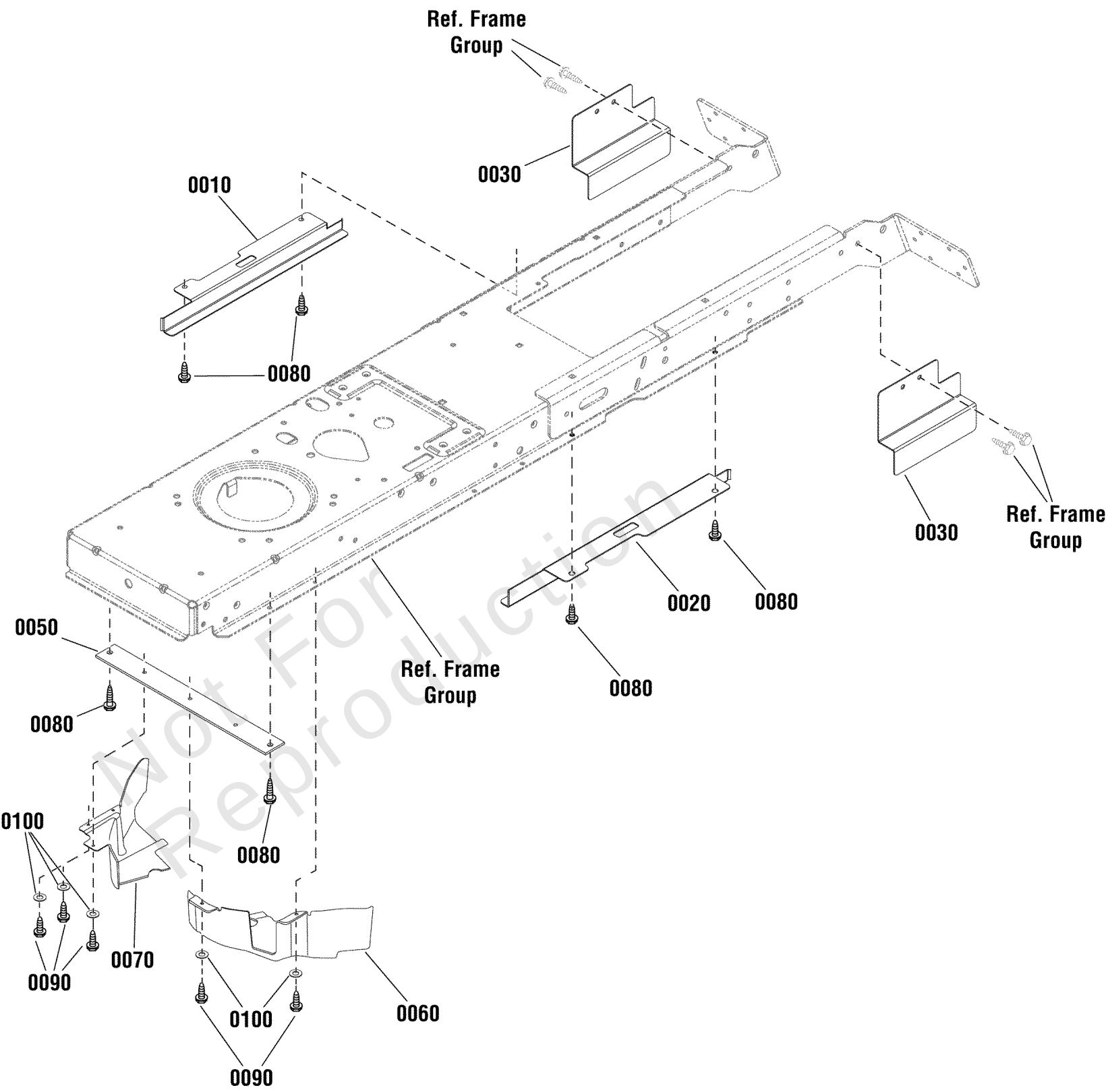
Footnotes:

NOTE: *This Frame Group was used on the "00" versions and being upgraded to "01" version parts.

Guard Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691113-00

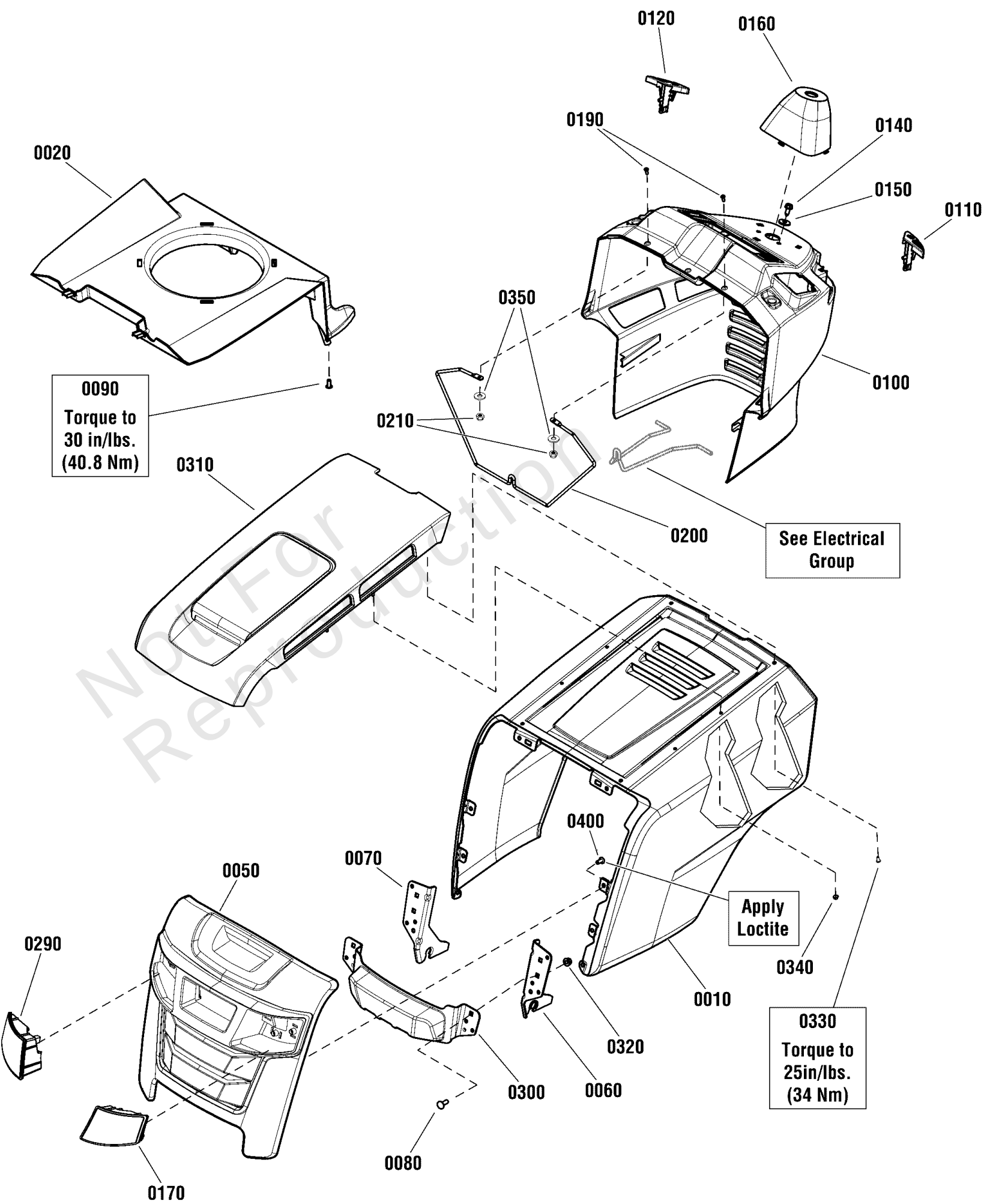


Guard Group

REF NO	PART NO	QTY	DESCRIPTION
0010	885598AYP	1	GUARD, Middle Right
0020	885599AYP	1	GUARD, Middle Left
0030	885892YP	2	GUARD, Rear
0050	885602AYP	1	BRACE, Guard
0060	885604YP	1	GUARD, Front, LH
0070	885605YP	1	GUARD, Front, RH
0080	703228	6	SCREW, 5/16-18 X .75
0090	1925003SM	5	CAPSCREW, Hex Washer Head, Taptite, 1/4-20 x 1/2
0100	2821319SM	5	WASHER, 1/4

Hood, Grille & Dash Group

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 2691113-00



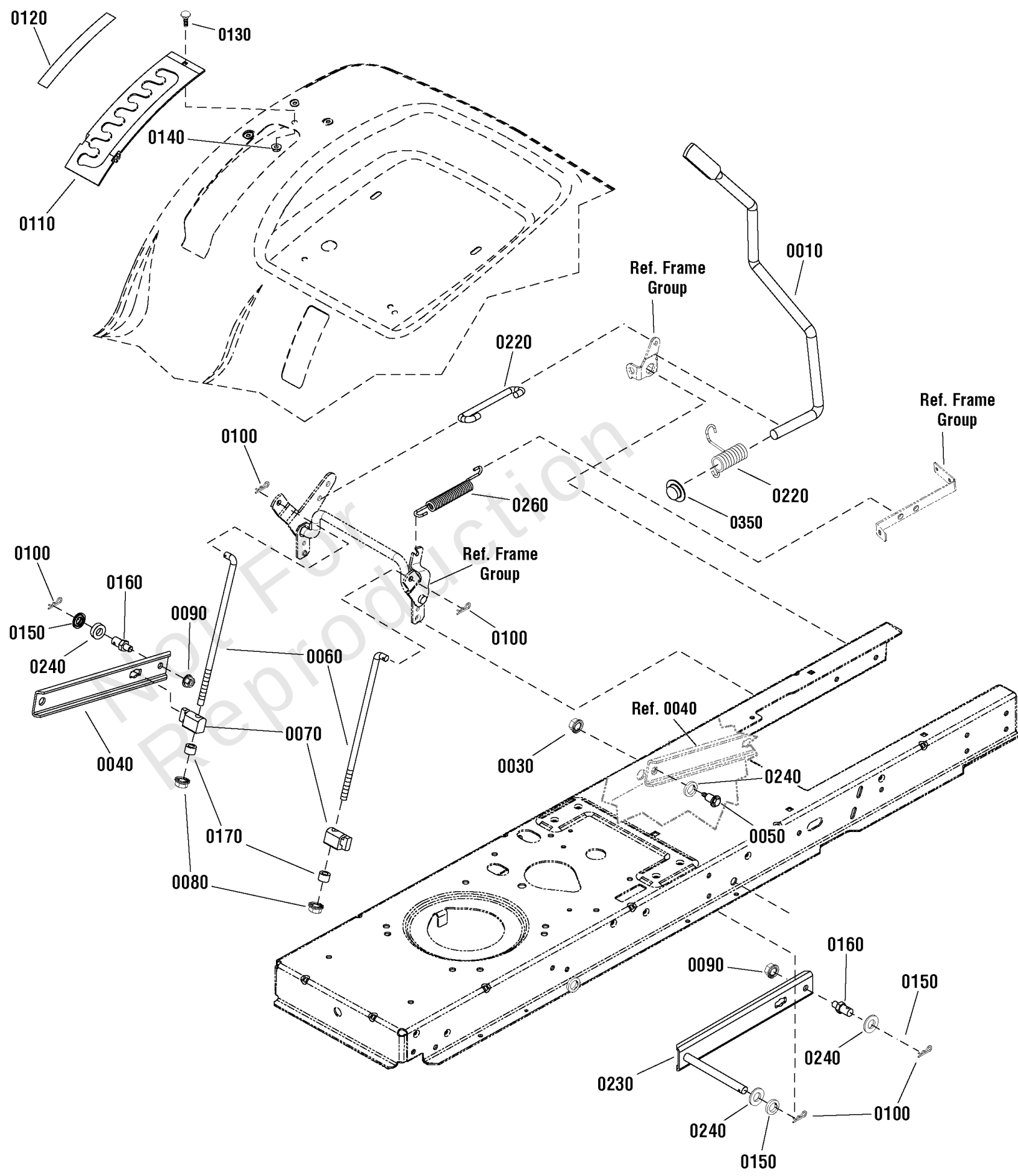
Hood, Grille & Dash Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1753164DYP	1	HOOD, One Piece -(Use on 17.5 & 18 Gross HP Models)
0010	1752930DYP	1	HOOD, One Piece, Vent Holes -(Use on 22 & 26 Gross HP Models)
0020	1738734YP	1	AIR DUCT
0050	1752929YP	1	GRILLE, Front
0060	1738566AYP	1	HINGE, Hood, LH
0070	1738565AYP	1	HINGE, Hood, RH
0080	7091714YP	2	BOLT, Carriage, 5/16 x 1, G5
0090	1754203YP	2	SCREW
0100	885842YP	1	DASH
0110	1738789YP	1	KNOB, Parking Brake
0120	1738788YP	1	KNOB, Cruise
0140	1664847SM	2	SCREW, Hex Washer Head Taptite, 5/16-18 x 3/4
0150	1919381SM	2	WASHER, 5/16 x 1
0160	1738790YP	1	COVER, Steering Shaft
0170	1753167YP	1	HEADLIGHT, Led, LH -(Use on 17.5 & 18 Gross HP Models)
0170	1753171YP	1	HEADLIGHT, Led, LH -(Use on 22 & 26 Gross HP Models)
0190	1739942YP	2	SCREW, Pan Head Phillips, #10-24 x 7/8
0200	885843YP	1	ROD, Dash Support, 1/4 Dia. x 10"
0210	1933896SM	2	NUT, Ny-Lock 10-24
0290	1753168YP	1	HEADLIGHT, Led, RH -(Use on 17.5 & 18 Gross HP Models)
0290	1753172YP	1	HEADLIGHT, Led, RH
0300	1753169BMYP	1	BUMPER, Front
0310	1752925YP	1	TRIM, HOOD
0320	1960686SM	2	NUT, Hex Flange, 5/16-18, ESNA
0330	1739329YP	4	SCREW, PT5
0340	189164GS	4	PALNUT, 3/16
0350	1960353SM	2	WASHER, 1/4 x 27/32 OD
0360	1753895YP	1	TRIM, Protective
0400	1754203YP	8	SCREW

Lift Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691113-00



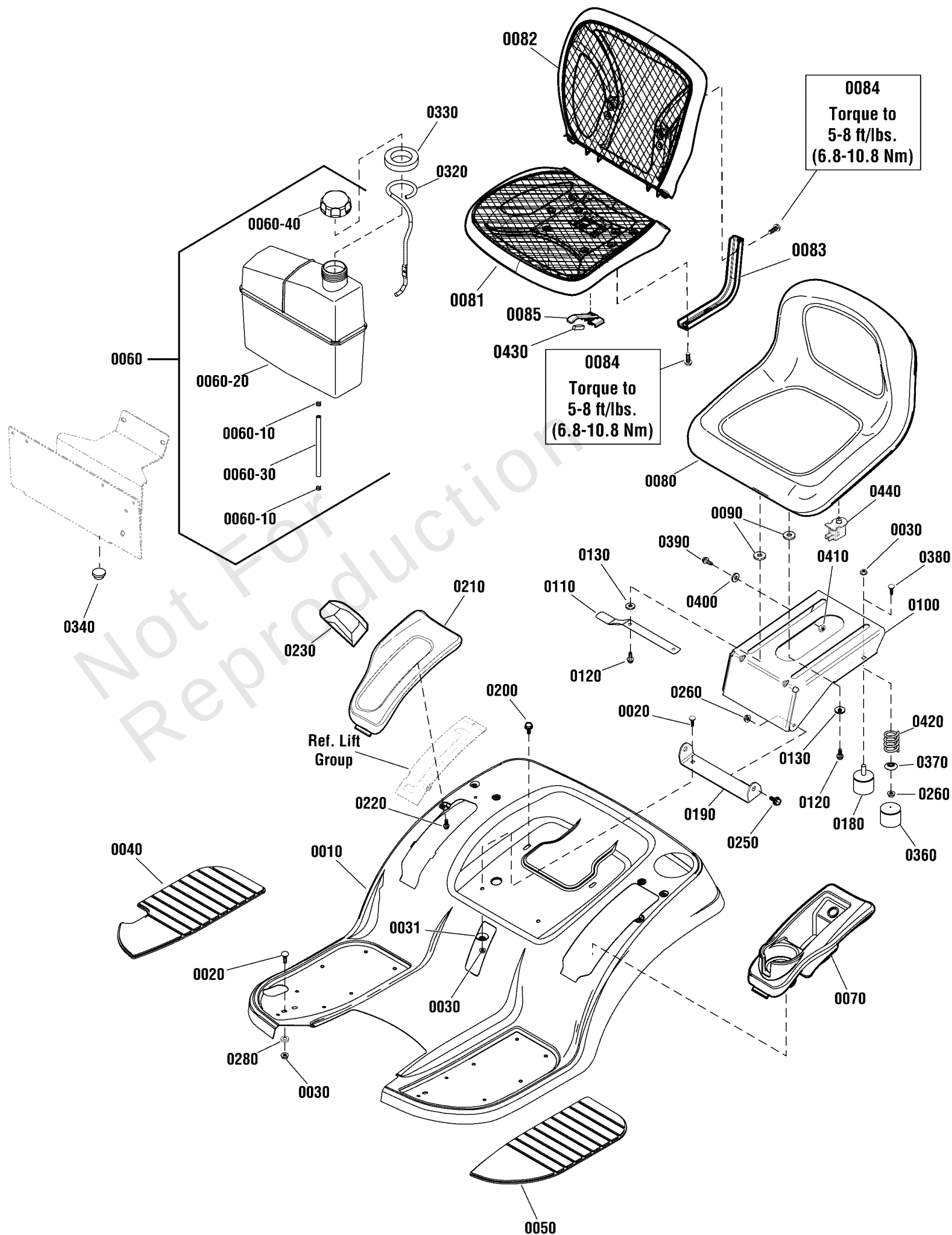
Lift Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1728070	1	ROD, Lift Handle E-Coat, 17.7 LG
0020	1729652	1	SPRING, Torsion, 2.12 LG Black
0030	1931277	1	NUT, Hex Flange Whiz Lock, 5/16-18 all Black
0040	1731417BM	1	ARM, Rear Lift, RH
0050	1732426	1	BOLT, Shoulder, 5/16-18 x .13/16, 1/2" Thread Length
0060	1727955	2	ROD,Lift,Lower,3/8x10Long
0070	1731894	2	TRUNNION, Powdered Metal, Yellow, Regent
0080	1960687	2	NUT, Hex Lock Flange, 5/16 - 18 ESNA
0090	1931211	2	NUT, Hex Flange Whiz Lock, 3/8-16, Small
0100	1960074	5	PIN, Hair
0110	1727985A	1	QUADRANT, Lift Height 12GA
0120	1730264	1	DECAL, Height Of Cut
0130	1960252	1	BOLT-RD HD SH SQ NK 1/4-20X0.625 G5 BLK
0140	1930641	1	NUT, Hex Flange, Whiz Lock Large, 1/4-20
0150	1960170	2	Flatwasher, 1/2
0160	721221	2	PIN,Threaded,Shoulder,3/8-16x1-7/16Long
0170	1666294	2	SPACER, .385 I.D. x .6697 O.D. x .455 Long, Powdered Metal
0220	1727954	1	ROD, Lift, 5.43 LG
0230	885523BM	1	ARM, Rear Lift, LH
0240	885382	4	WASHER, Rubber
0250	0020X3MA	1	WASHER,SPRING .52X.99
0260	722453	1	SPRING, Extension
0350	771009	1	PUSHNUT, 5/8

Seat Deck & Fuel Tank Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691113-00



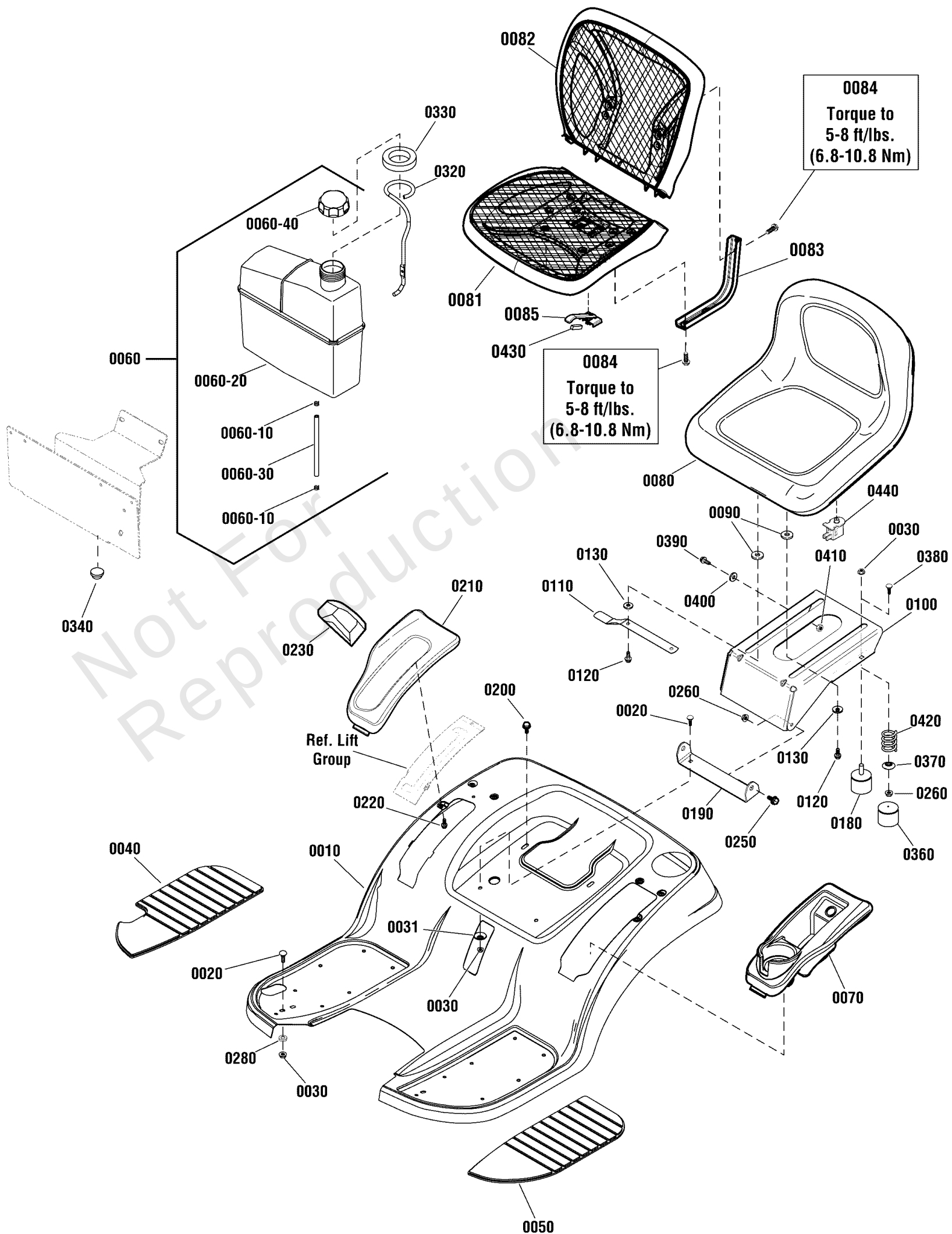
Seat Deck & Fuel Tank Group

REF NO	PART NO	QTY	DESCRIPTION
0010	885687DYP	1	SEAT DECK, Red
0020	703185	4	BOLT, Round Head, Short Square Neck
0030	1931277SM	4	NUT, 5/16-18, G5 -(Use on 22 & 26 Gross HP Models)
0031	1709256SM	2	WASHER, Spring, 5/16 x 1 1/4
0040	1728007SM	1	PAD, Footrest, RH
0050	1728006SM	1	PAD, Footrest, LH
0060	885896YP	1	FUEL TANK ASSEMBLY
0060-10	095197MA	2	CLAMP, Hose
0060-20	-----	1	FUEL TANK, 6L
0060-30	1734981SM	1	HOSE, Fuel, 15.0"
0060-40	795027	1	CAP, Fuel Tank
0070	1739015YP	1	POD, LH
0080	1754214YP	1	SEAT, 11"
0081	1738013YP	1	SEAT, Bottom, Mesh -(Use on 22 & 26 Gross HP Models)
0082	1753182YP	1	SEAT, Back, Mesh -(Use on 22 & 26 Gross HP Models)
0083	1737848AYP	2	SUPPORT, Mesh Seat -(Use on 22 & 26 Gross HP Models)
0084	703354	8	SCREW, 5/16-18 -(Use on 22 & 26 Gross HP Models)
0085	1738015YP	1	SWITCH, Seat -(Use with Mesh Seat)
0090	1731300SM	4	SPACER, 5/16 ID x 1-1/4 OD x 5/16"
0100	1727265BMYP	1	SUPPORT, Seat
0110	1727268BMYP	1	LATCH, Seat
0120	1930595SM	4	SCREW, Hex Flange, Whiz Lock, 5/16-1-1/4
0130	703298	4	WASHER, 5/16
0180	1739934YP	2	BUMPER, Rubber -(Use on 22 & 26 Gross HP Models)
0190	885538AYP	1	PIVOT, Seat
0200	1930601SM	2	SCREW, Hex Washer Head, Taptite, 5/16-18 x 5/8
0210	1739016YP	1	POD, RH
0220	1960536SM	6	SCREW, HEX WSHR HD PL
0230	1722302SM	1	GRIP
0250	1729576SM	2	BOLT, Shoulder, 5/16-18 x 15/32
0260	703115	4	NUT -(Use on 17.5 & 18 Gross HP Models)
0280	885382YP	2	WASHER, Rubber
0320	885834YP	1	ROD, Fuel Tank
0330	1001963MA	1	RING, Foam
0340	1401377MA	2	BUMPER, Front
0360	1704724SM	2	COVER, Spring -(Use on 17.5 & 18 Gross HP Models)
0370	1709256SM	2	WASHER, Spring, 5/16 x 1 1/4 -(Use on 17.5 & 18 Gross HP Models)
0380	1960282SM	2	BOLT, Carriage, 5/16-18 x 3/4, G5 -(Use on 17.5 & 18 Gross HP Models)
0390	1923114SM	1	CAPSCREW, Hex Head, 1/2-13 x 1, G5
0400	1960170SM	1	WASHER, 1/2
0410	5025038SM	1	NUT, Hex, 1/2-13
0420	1704728SM	2	SPRING, Compression -(Use on 17.5 & 18 Gross HP Models)
0430	1750296YP	1	FOAM STRIP -(Use with Mesh Seat)

Seat Deck & Fuel Tank Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691113-00



Seat Deck & Fuel Tank Group

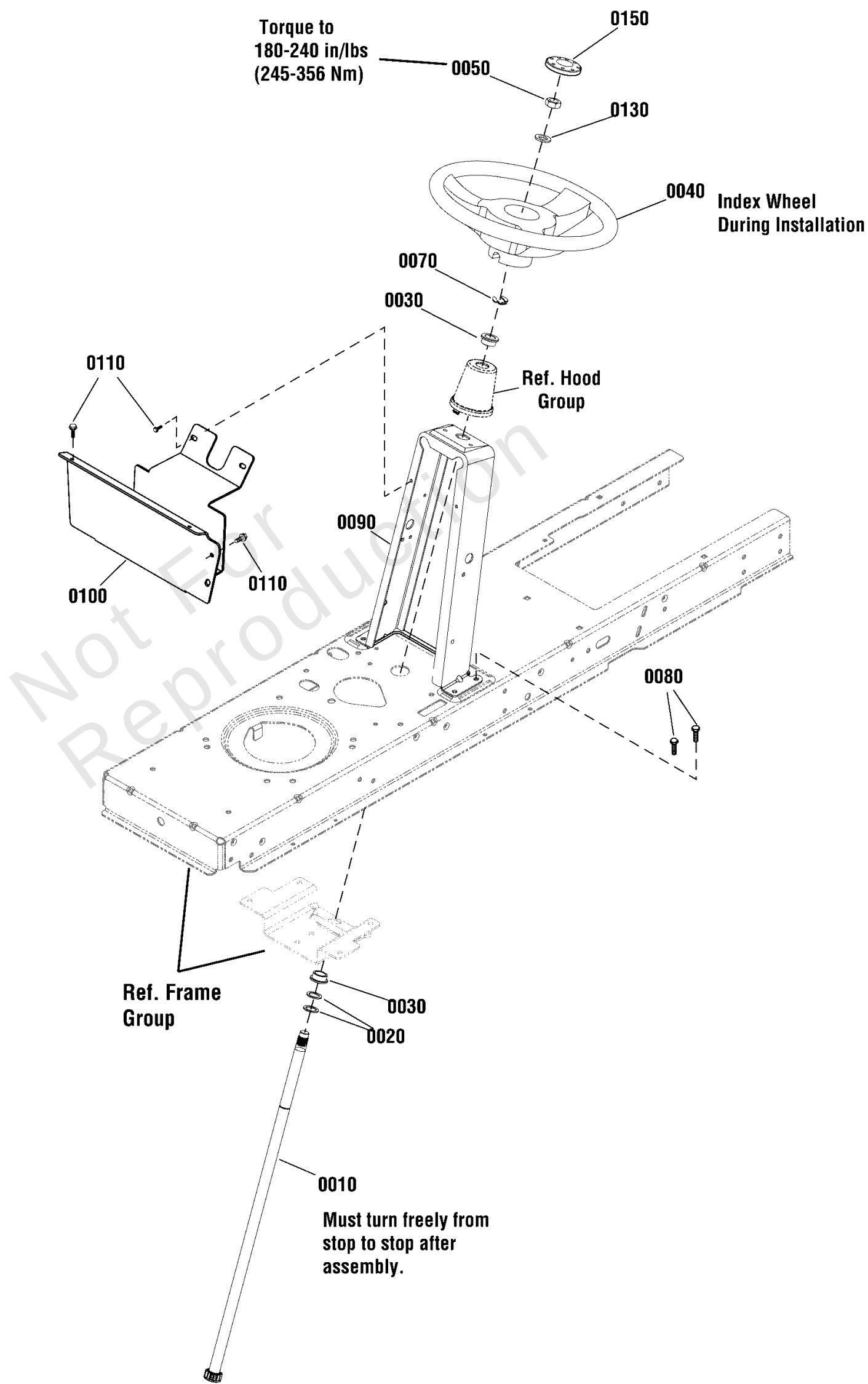
REF NO	PART NO	QTY	DESCRIPTION
0440	7023354YP	1	SWITCH, SEAT -(Use with 11" Seat)

Not For Reproduction

Steering Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691113-00



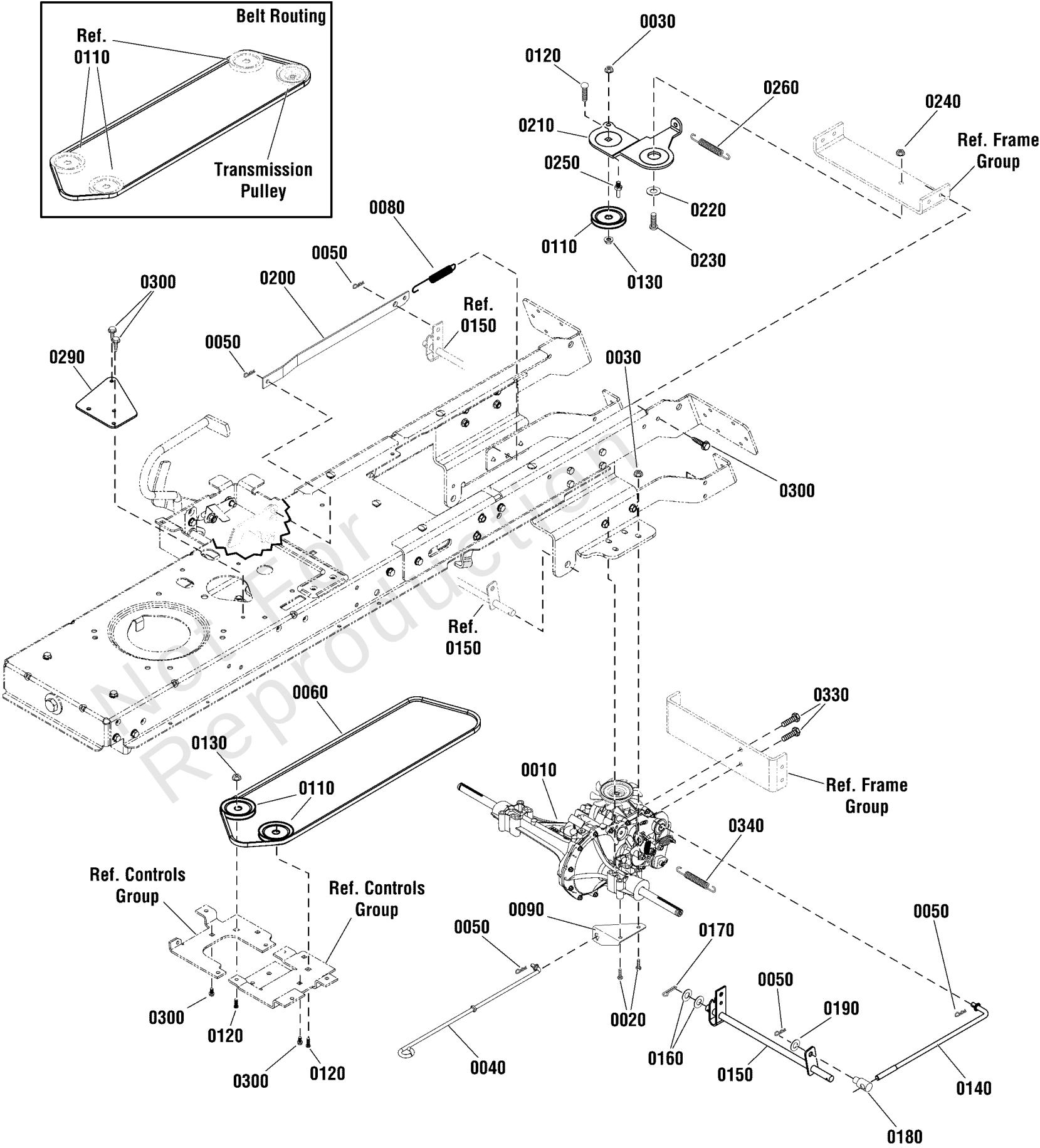
Steering Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1727813SM	1	SHAFT, Steering Gear & Spline
0020	1960114SM	2	WASHER, 3/4 x 1
0030	1729665SM	2	BUSHING, Steering
0040	1728069SM	1	STEERING WHEEL -(Use on 17.5 & 18 Gross HP Models)
0040	7078088YP	1	STEERING WHEEL -(Use on 22 & 26 Gross HP Models)
0050	1960576SM	1	NUT, Hex Lock, ESNA Light, 5/8-18
0070	1611710SM	1	RING, Klipring Extension
0080	1930601SM	4	SCREW, Hex Washer Head, Taptite, 5/16-18 x 5/8
0090	885835BMYP	1	TOWER, RDLT
0100	885839BMYP	1	BRACKET, Tank
0110	1925003SM	5	CAPSCREW, Hex Head, Taptite, 1/4-20 x 1/2
0130	1924366SM	1	WASHER, 5/8
0150	1725024SM	1	CAP, Steering Wheel

Transmission Group - Hydro Gear 324-0610

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691113-00



Transmission Group - Hydro Gear 324-0610

REF NO	PART NO	QTY	DESCRIPTION
0010	885528YP	1	* TRANSMISSION, Hydro Gear, 610
0020	1923141SM	8	SCREW, Hex Head Flange Lock, 5/16-18 x 2-3/4, G5
0030	1931277SM	8	NUT, Hex Flange, Whiz Lock, 5/16-18
0040	885436YP	1	LEVER, Roll Release
0050	1722460SM	5	PIN, Quick
0060	885495YP	1	BELT, Secondary (81.37" EL, HA section)
0080	165X75MA	1	SPRING, Extension
0090	885868BMYP	1	BRACKET, Roll Release
0110	885645YP	3	PULLEY, Idler
0120	1931352SM	3	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2
0130	015X84MA	3	NUT, Hex Flange, Centerlock, 3/8-16
0140	885476YP	1	SPEED CONTROL, Short Link
0150	885477AYP	1	SPEED CONTROL ASSEMBLY
0160	017X91MA	2	WASHER, Flat, 13/16
0170	1960074SM	1	CLIP, HAIR PIN .093DI
0180	021920ZMA	1	NUT, Adjusting
0190	017X53MA	1	WASHER, Flat, .41
0200	885480AYP	1	LINK, Speed Control
0210	885409AYP	1	BRACKET, Idler, Rear
0220	1727935SM	1	SPACER-PIVOT 0.330ID
0230	1931335SM	1	BOLT, Carriage, Short Neck, 5/16-18 x 1
0240	1931277SM	2	NUT, Hex Flange, Whiz Lock, 5/16-18
0250	885077YP	1	BELT GUIDE
0260	1731939SM	1	SPRING, Extension
0290	885953BMYP	1	PLATE, Front Fixed Idler -(Only used on Rev - 00)
0300	703228	4	SCREW, 5/16-18 X .75 -(Only 2 used on Rev - 01)
0330	703228	2	SCREW, 5/16-18 X .75
0340	165X92MA	1	SPRING, Extension

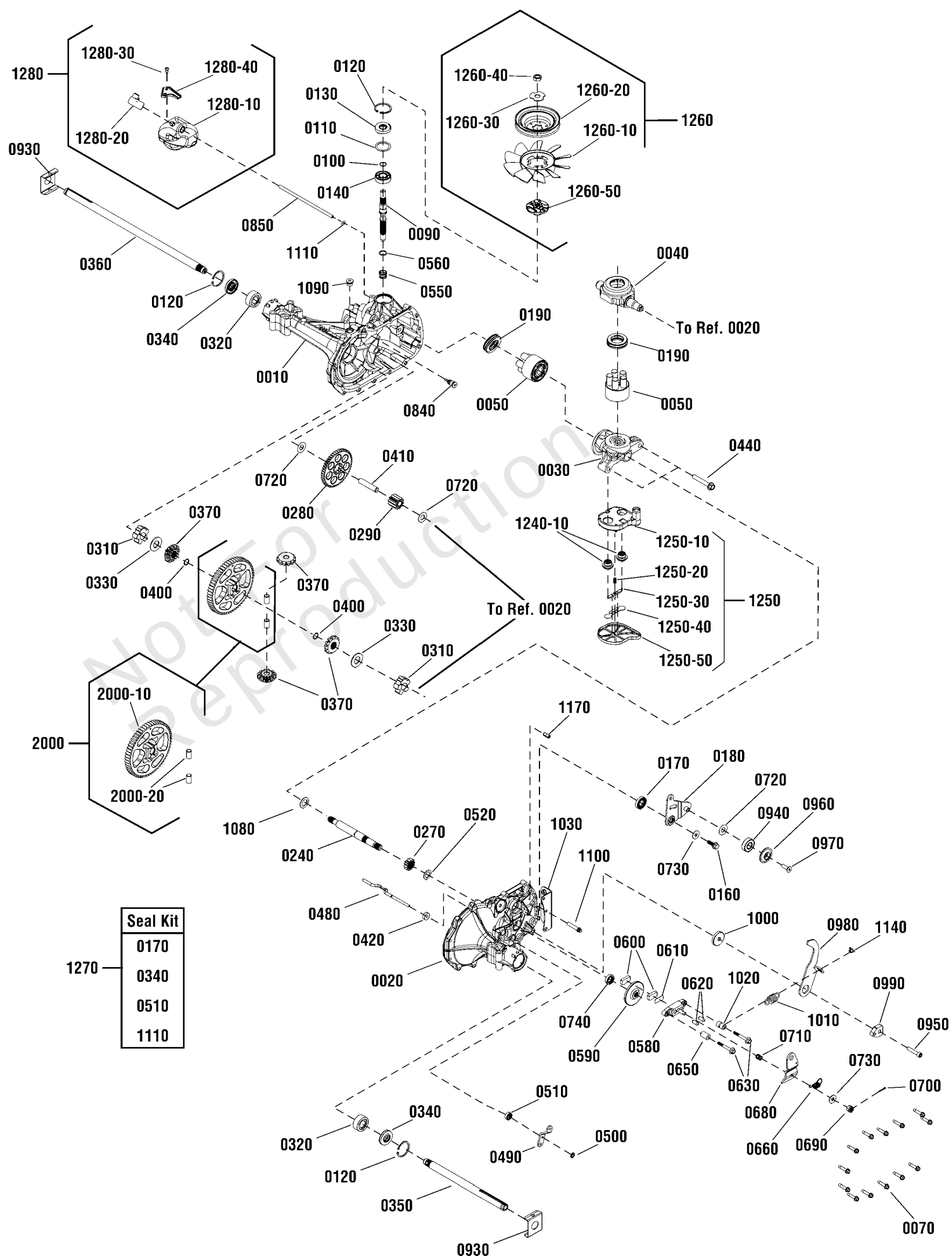
Footnotes:

Note* See your local authorized dealership for parts and warranty or contact Hydro Gear at www.hydro-gear.com/Support/NorthAmerica.aspx (U.S. 1-877-728-7410 Int'l 32 (0) 12 670 631)

Transmission SERVICE PARTS - Hydro Gear 324-0610 (885528)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691113-00



Transmission SERVICE PARTS - Hydro Gear 324-0610 (885528)

REF NO	PART NO	QTY	DESCRIPTION
0010	-----	1	* MAIN HOUSING ASSEMBLY
0020	-----	1	* SIDE HOUSING ASSEMBLY
0030	84007737	1	CENTER SECTION ASSEMBLY
0040	-----	1	* TRUNNION, Swashplate
0050	-----	2	* BLOCK ASSEMBLY
0060	-----	1	* SEALANT, 10.1 oz. -(Not Illustrated)
0070	-----	14	* SCREW, Hex Washer, 1/4-20 x 1-1/8
0090	1752461	1	SHAFT, Input
0100	1715270	1	RING, Retaining
0110	1752462	1	WASHER, Flat, 1.23 x 1.57 x .04
0120	1752463	3	RING, RETAINING
0130	1752464	1	SEAL, LIP 17 x 40 x 12
0140	1752465	1	BEARING, BALL 17 x 40 x 12
0160	-----	1	* SCREW, Hex Flange, With Patch, 5/16-24 x 15/16
0170	-----	1	* SEAL, Lip, 18 x 32 x 7 -(Not a servicable part, order kit # 1270)
0180	-----	1	* ARM, Control
0190	1715144	2	* BEARING, Thrust, 30 x 52 x 13
0240	-----	1	* SHAFT, Motor
0270	-----	1	* GEAR, Pinion, 12T
0280	-----	1	* GEAR, 10T/49T
0290	-----	1	* GEAR, Jackshaft, 10T
0310	-----	2	* BUSHING, Sleeve (Inboard)
0320	-----	2	* BUSHING, Sleeve, 3/4 x 1-1.571 x 5/8
0330	-----	2	* WASHER, Flat, 3/4 x 1-1/2 x 7/64
0340	-----	2	* SEAL, Lip, 3/4 x 1.577 x 1/4 -(Not a servicable part, order kit # 1270)
0350	84007733	1	SHAFT, Axle, 3/4 x 11.39 (Key, RH)
0360	84007734	1	SHAFT, AXLE, 3/4 x 16.99 (Key, LH)
0370	84007738	1	KIT, Miter Gear
0400	-----	2	* RING, Retaining Spiral
0410	-----	1	* PIN, Jackshaft, 1/2 x 2.43
0420	-----	1	* MAGNET, Ring
0440	1717965	2	SCREW, Hex Flange, 3/8-24 x 2-1/2
0480	-----	1	* ROD, Actuator Bypass
0490	-----	1	* ARM, Bypass
0500	-----	1	* RING, Retaining, External, 1/4
0510	-----	1	* SEAL, Lip, 1/4 x 3/4 x 1/4 TC -(Not a servicable part, order kit # 1270)
0520	-----	1	* WASHER, Flat, 5/8 x 1 x 1/2
0530	-----	1	* RING, Retaining
0540	-----	1	* BUSHING, Center Block
0550	-----	1	* SPRING, Block
0560	-----	1	* WASHER, Thrust, .59 x .79 x .04
0580	-----	1	* BRAKE YOKE KIT
0590	84007735	1	ROTOR, Brake
0600	-----	2	* PUCK, Brake
0610	84007736	1	PLATE, Puck

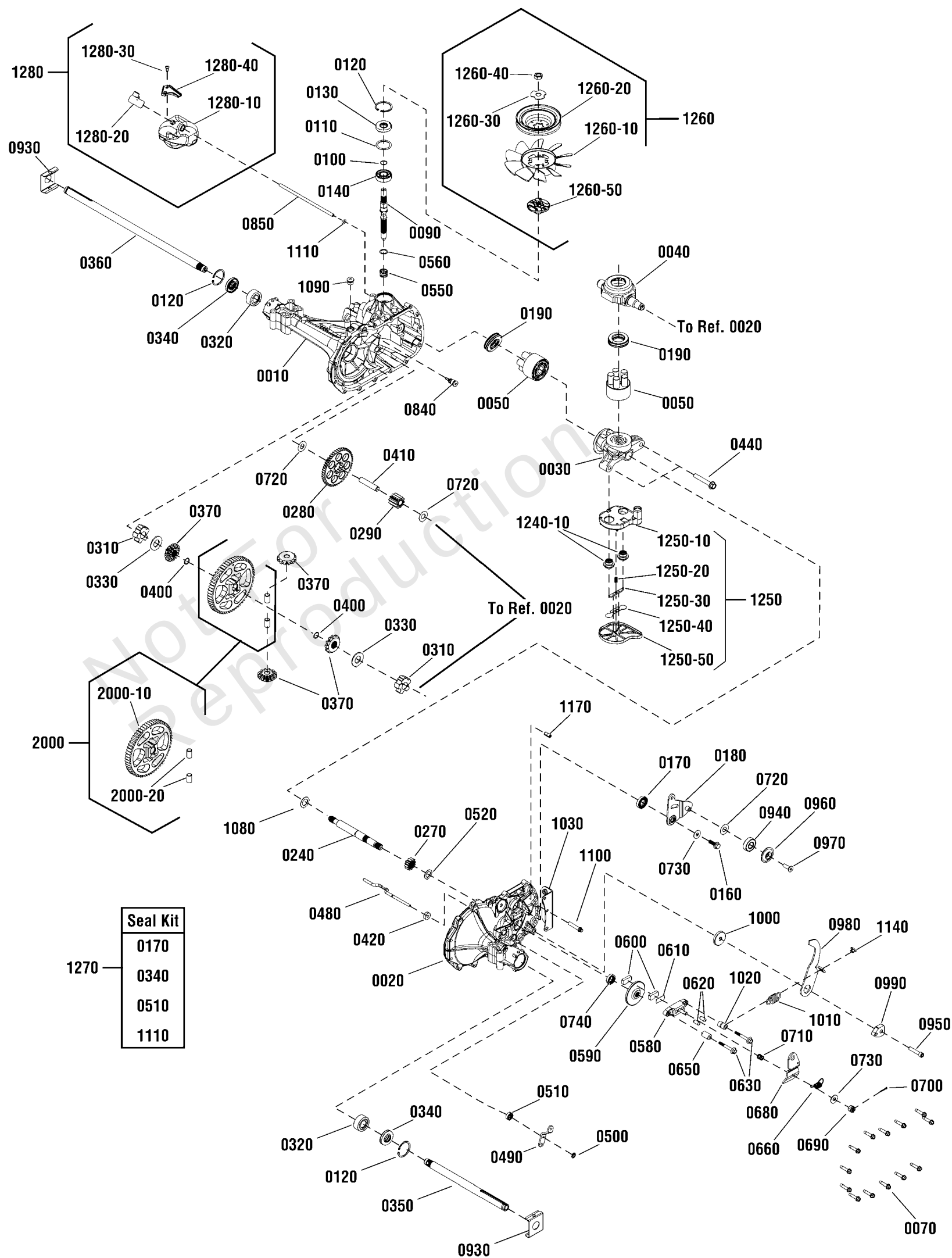
Footnotes:

Note:* See your local authorized dealership for parts and warranty or contact Hydro Gear at www.hydro-gear.com/Support/NorthAmerica.aspx (U.S. 1-877-728-7410 Int'l 32 (0) 12 670 631)

Transmission SERVICE PARTS - Hydro Gear 324-0610 (885528)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691113-00



Transmission SERVICE PARTS - Hydro Gear 324-0610 (885528)

REF NO	PART NO	QTY	DESCRIPTION
0620	-----	2	* PIN, Brake Actuating
0630	-----	2	* SCREW, Hex Head, With Patch, 1/4-20 x 2
0650	1715199	1	SPACER, .26 x .57 x .87
0660	-----	1	* SPRING, Brake arm Bias
0670	1706160	1	SCREW, Square Head, Ribbed, 5/16-24
0680	-----	1	* ARM, Brake
0690	-----	1	* NUT, Castle, 5/16-24
0700	-----	1	* PIN, Cotter
0710	-----	1	* SPRING, Compression Brake, Anti-Drag
0720	-----	3	* WASHER, Flat, .51 x 1.0 x .03
0730	-----	2	* WASHER, Flat, .34 x .88 x .06
0740	-----	1	* KIT, Seal
0840	-----	1	* FITTING, 5/16 SAE 5/32 TUBE
0850	-----	1	* HOSE, Expansion Tank, 7.56 In.
0930	1752466	2	SPRING CLIP, Housing Thrust (3/4" Axle)
0940	-----	1	* BEARING, Ball, .62 x 1.38 x .44
0950	-----	1	* CAPSCREW, Socket Head, 5/16-24 x 1-1/2
0960	-----	1	* SPACER, Locating
0970	-----	1	* SCREW, Countersunk, 5/16-18 x 1
0980	-----	1	* ARM, Return
0990	-----	1	* PUCK, Adjusting
1000	-----	1	* WASHER, Flat, .32 x 1.60 x .24
1010	-----	1	* SPRING, Extension, Double Loop
1020	-----	1	* SPACER, .26 x .56 x .87
1030	-----	1	* BRACKET, Torque
1080	-----	1	* WASHER, Flat, .71 x 1.16 x .04
1090	-----	1	* PLUG, 9/16-18 (METAL)
1100	-----	1	* SCREW, Torx Head, 5/16-18 x 1-1/2
1110	-----	1	* O-RING, .299 x .505 x .103 -(Not a serviceable part, order kit # 1270)
1140	-----	1	* SPRING, Guide
1170	-----	1	* PIN, Spring, .304 x .75
1240-10	-----	1	* PLUG ASSEMBLY, .027 BLEED, WASHER
1250	-----	1	* FILTER ASSEMBLY -(Includes Ref. Nos. 1250-10, 1250-20, 1250-30, 1250-40 & 1250-50)
1250-10	-----	1	* BASE, Filter, With Poppet -(Not a serviceable part, order kit #1250)
1250-20	-----	1	* SPRING, Bypass, 1/2" -(Not a serviceable part, order kit #1250)
1250-30	-----	1	* ACTUATOR, Bypass -(Not a serviceable part, order kit #1250)
1250-40	-----	1	* DEFLECTOR -(Not a serviceable part, order kit #1250)
1250-50	-----	1	* BOTTOM, Filter -(Not a serviceable part, order kit #1250)
1260	1752467	1	FAN & PULLEY KIT -(Includes Ref. Nos. 1260-10, 1260-20, 1260-30, 1260-40 & 1260-50)
1260-10	-----	1	* FAN, 7" (10 BLADE) -(Not a serviceable part, order kit #1260)
1260-20	-----	1	* PULLEY, Cupped, 4-1/2" -(Not a serviceable part, order kit #1260)

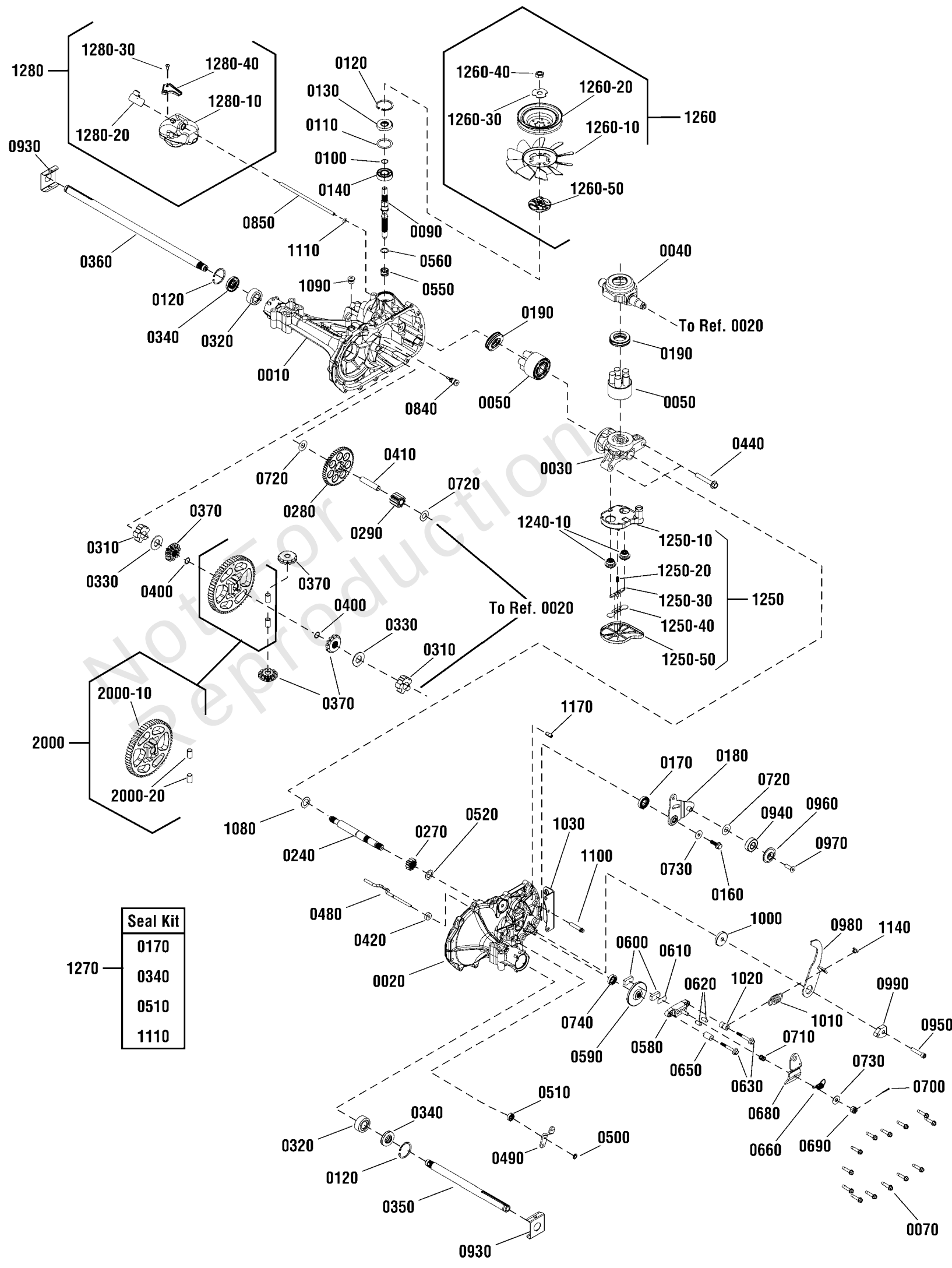
Footnotes:

Note:* See your local authorized dealership for parts and warranty or contact Hydro Gear at www.hydro-gear.com/Support/NorthAmerica.aspx (U.S. 1-877-728-7410 Int'l 32 (0) 12 670 631)

Transmission SERVICE PARTS - Hydro Gear 324-0610 (885528)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691113-00



Transmission SERVICE PARTS - Hydro Gear 324-0610 (885528)

REF NO	PART NO	QTY	DESCRIPTION
1260-30	-----	1	* NUT, Hex Jam, With Patch, 1/2-20 -(Not a serviceable part, order kit #1260)
1260-40	-----	1	* WASHER, Slotted, .53 x 1.63 x .06 -(Not a serviceable part, order kit #1260)
1260-50	-----	1	* HUB, Pulley -(Not a serviceable part, order kit #1260)
1270	1752468	1	SEAL & O-RING KIT -(Includes Ref. Nos. 0170, 0340, 0510 & 1110)
1280	1752469	1	EXPANSION TANK KIT -(Includes Ref. Nos. 1280-10, 1280-20, 1280-30 & 1280-40)
1280-10	-----	1	* TANK, Expansion -(Not a serviceable part, order kit #1280)
1280-20	-----	1	* CAP, Expansion Tank -(Not a serviceable part, order kit #1280)
1280-30	-----	1	* BOLT, Self Tapping, 10-32 x 1/2 -(Not a serviceable part, order kit #1280)
1280-40	-----	1	* BRACKET, Expansion Tank -(Not a serviceable part, order kit #1280)
2000	-----	1	* KIT, 60T Bull Gear Diff Pins -(Includes Ref. Nos. 2000-10 & 2000-20)
2000-10	-----	1	* GEAR, 60T
2000-20	-----	2	* PIN, 1/2

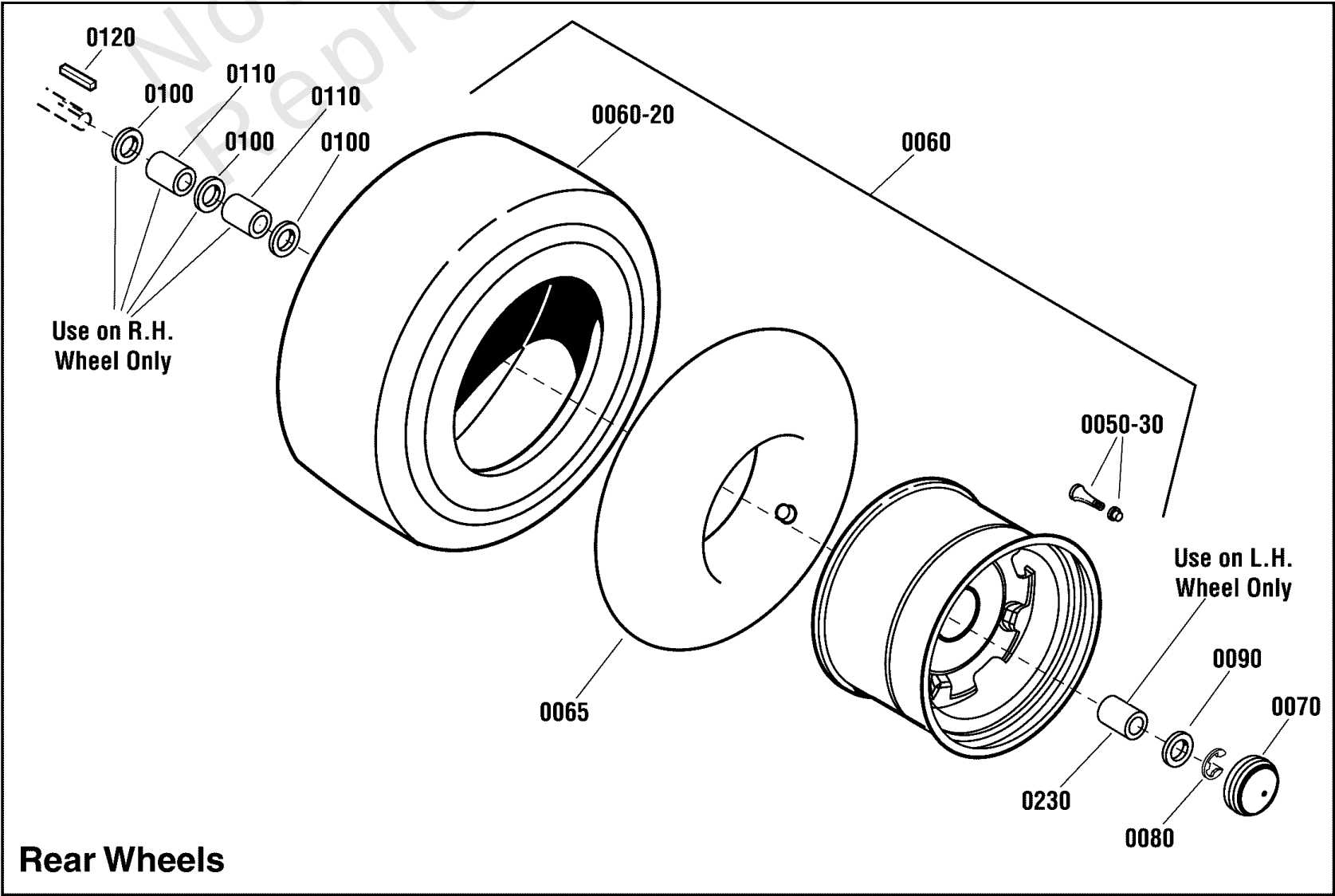
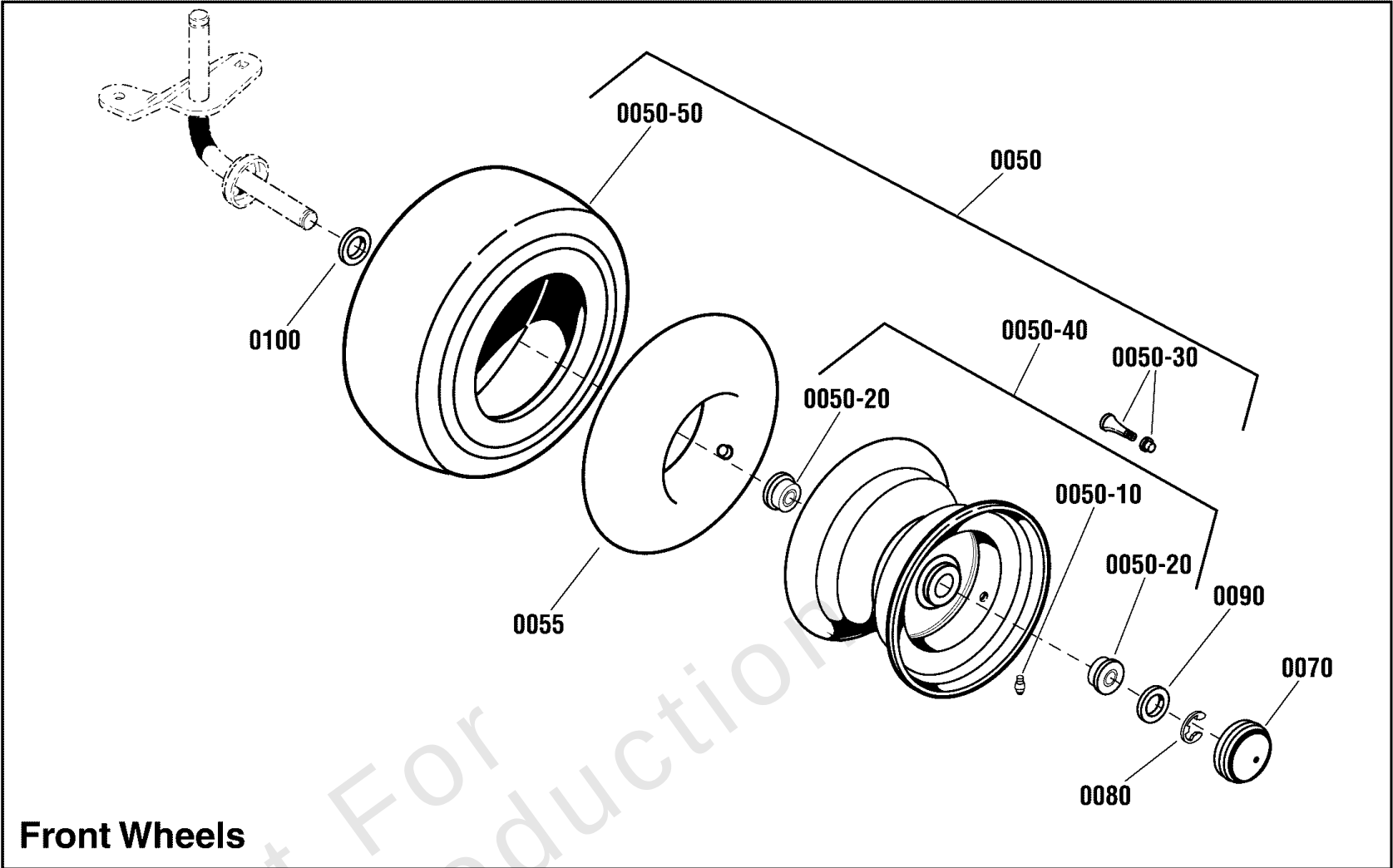
Footnotes:

Note:* See your local authorized dealership for parts and warranty or contact Hydro Gear at www.hydro-gear.com/Support/NorthAmerica.aspx (U.S. 1-877-728-7410 Int'l 32 (0) 12 670 631)

Wheel & Tire Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691113-00



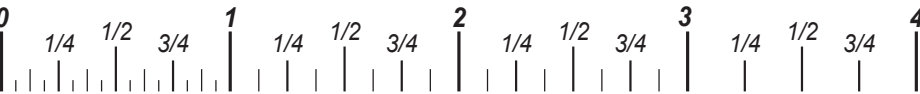
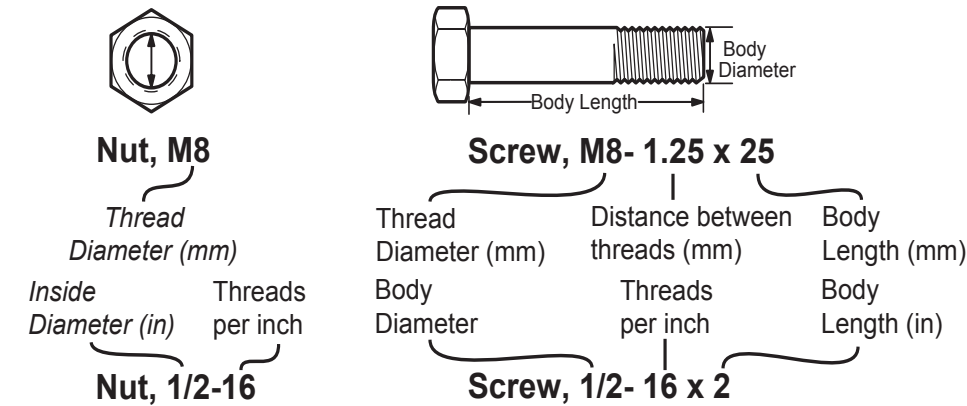
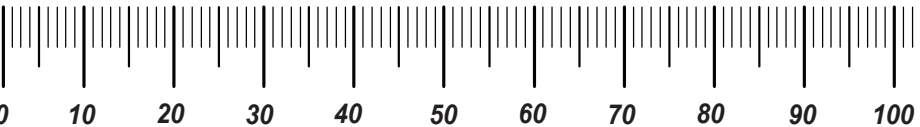
Wheel & Tire Group

REF NO	PART NO	QTY	DESCRIPTION
0050	1729708SM	2	WHEEL& TIRE ASSEMBLY, Front -(Includes Ref. Nos. 0050-10, 0050-20, 0050-30, 0050-40 & 0050-50)
0050-10	2812808SM	1	FITTING, Lube
0050-20	1713167SM	2	BEARING, 3/4
0050-30	2172353SM	4	VALVE STEM & CAP
0050-40	1726301SM	1	WHEEL & BUSHINGS ASSEMBLY, Front -(Includes Ref. Nos. 0050-10 & 0050-30)
0050-50	1731951SM	1	TIRE, Kenda, Turf Rider, Front, 15 x 6.00 - 6
0055	1664090SM	2	TUBE, Tire, Front
0060	885457YP	2	WHEEL & TIRE ASSEMBLY, Rear, 20 X 8-8 -(Use on 17.5 & 18 Gross HP Models) (Includes Ref. Nos. 0050-30 & 0060-20)
0060	1732324	1	WHEEL & TIRE ASSEMBLY, Rear, 22 x 10-8 -(Use on 22 & 26 Gross HP Models) (Includes Ref. Nos. 0050-30 & 0060-20)
0060-20	-----	1	TIRE, Rear, K358 x 20 x 8.94-8 -(Not a serviceable part, order Ref. 0060)
0060-20	-----	2	TIRE, Rear, K358 x 22 x 10-8 -(Not a serviceable part, order Ref. 0060)
0065	2164247SM	2	TUBE, Tire, Rear
0070	094618MA	4	HUB CAP
0080	0011X3MA	4	RING, E .750D .050T
0090	17X195MA	4	WASHER, Flat
0100	17X160MA	6	WASHER, Flat, 3/4 x 1-1/4
0110	1730181SM	2	SPACER, 3/4 ID x 1-1/4 OD x 1-5/8, RH -(Use on R.H. Side Only)
0120	021553MA	2	KEY, Square, 3/16
0230	885578YP	1	SPACER, Wheel, LH -(Use on L.H. Side Only)

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).

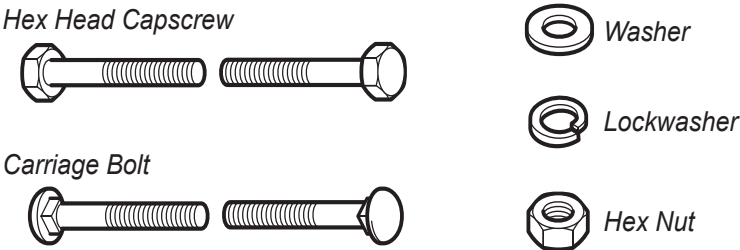
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

