



Parts Manual

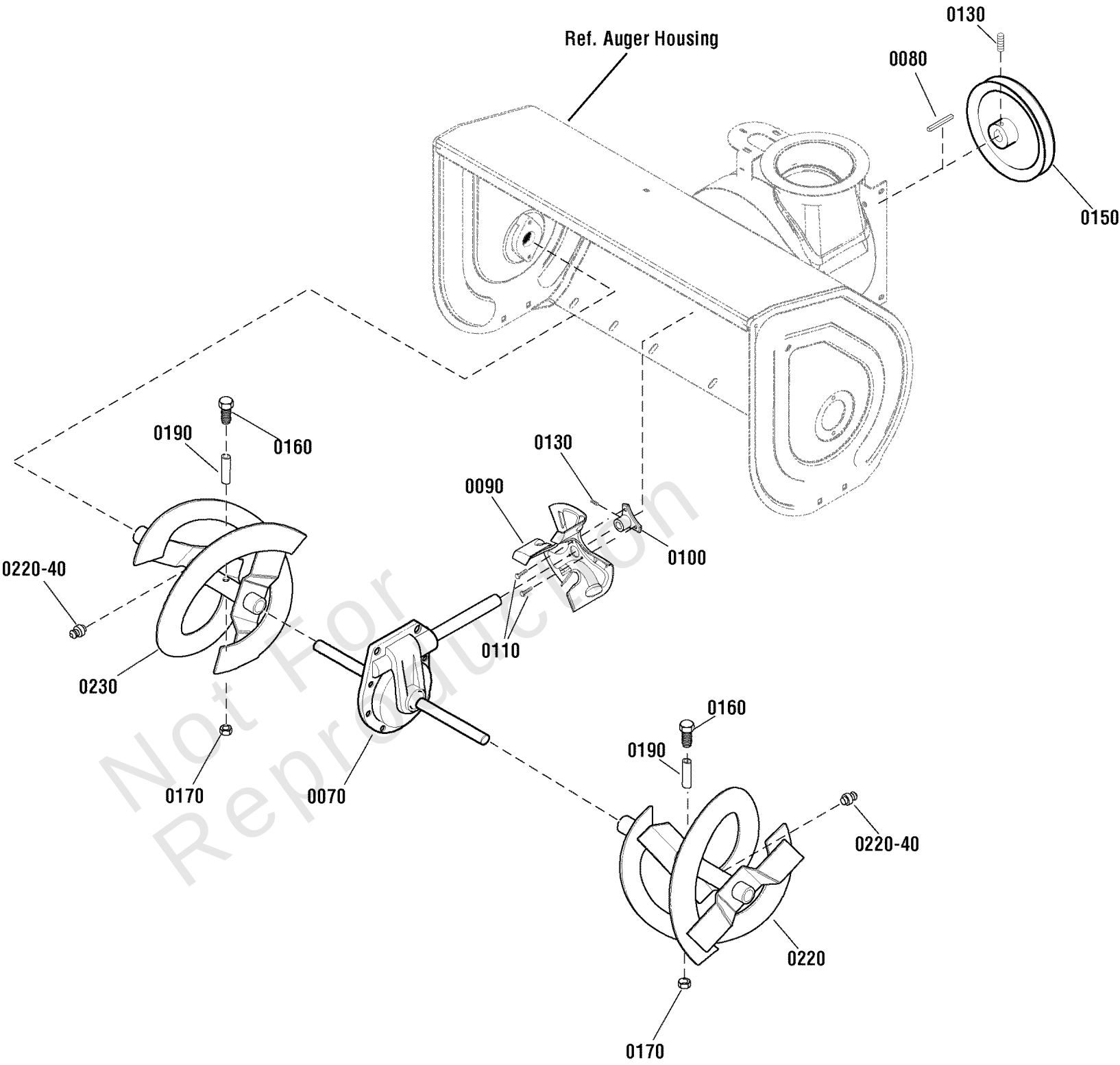
Mfg. No: 1696003
M1529E, 29" 14.5TP Two Stage
Intermediate Snow Thrower

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Not For
Reproduction

Auger Drive Group

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 1696003



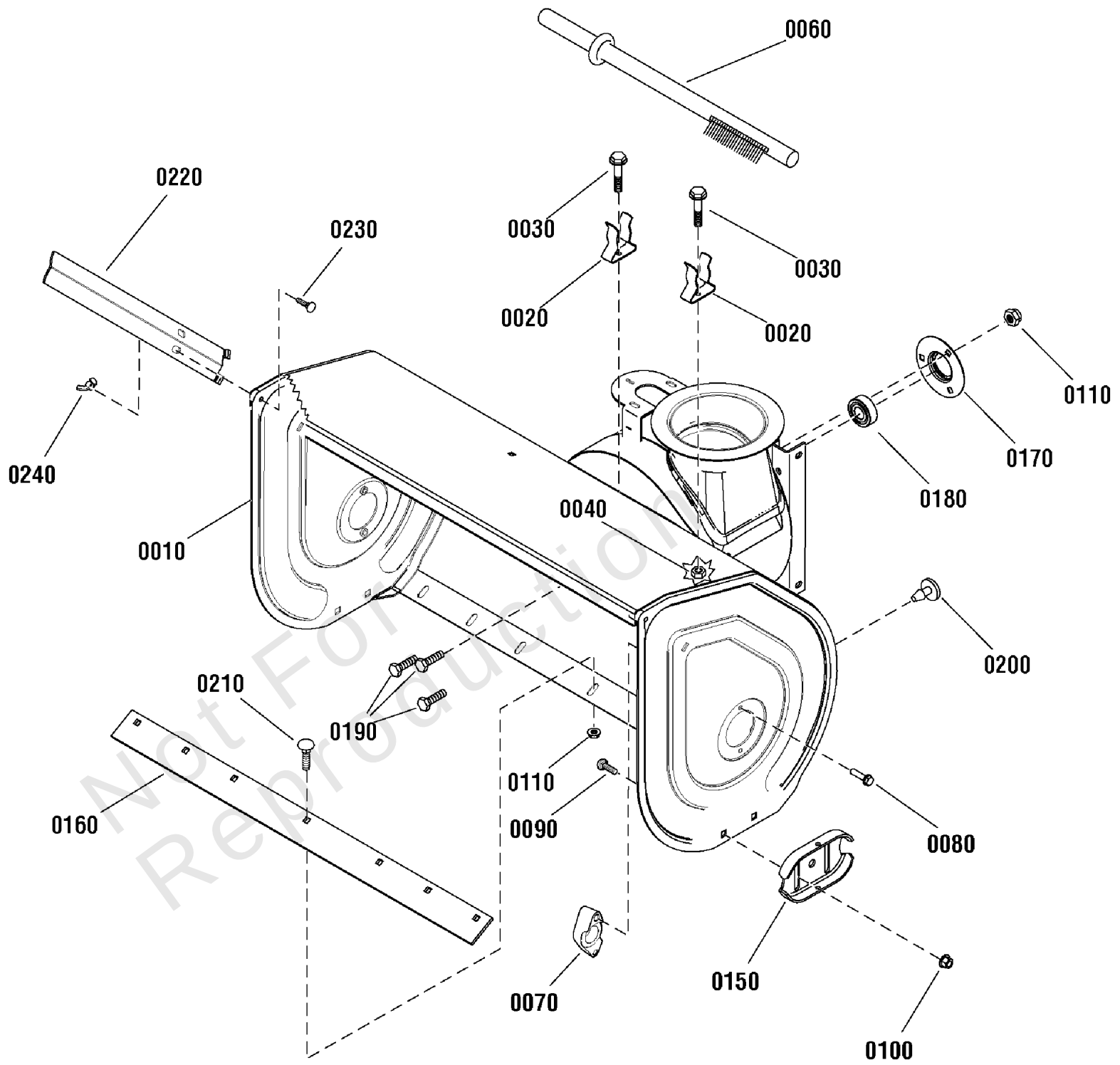
Auger Drive Group

REF NO	PART NO	QTY	DESCRIPTION
0070	1753073	1	GEAR CASE ASSEMBLY, 27" -(Used on 27" Models)
0070	1752295	1	GEAR CASE ASSEMBLY, 29" -(Used on 29" Models)
0080	722726	1	KEY, Square, 3/16 x 3/4
0090	1739094A	1	IMPELLER
0100	1739073	1	HUB, Impeller
0110	1930601	3	SCREW, Hex Washer Head, Taptite, 5/16-18 x 5/8
0130	7090848	3	SET SCREW, Socket Head, 5/16-18 x 1/2 -(Used on 27" Models)
0130	1930540SM	3	SCREW, Set Square Head Cup Point, 5/16-18X 5/8, G8
0150	722128	1	PULLEY
0160	726061	2	CAPSCREW, Hex Head, 1/4-20 x 1-3/4, G2
0170	725429	2	NUT, Hex Center Lock, 1/4-20
0190	723913	2	SPACER, 1/4 x 1/2
0220	1740736A	1	AUGER, LH, 27" -(Used on 27" Models)
0220	1740738A	1	AUGER, LH, 29" -(Used on 29" Models)
0230	1740737A	1	AUGER, RH, 27" -(Used on 27" Models)
0230	1740739A	1	AUGER, RH, 29" -(Used on 29" Models)
0220-40	721620	1	FITTING, Grease -(Included with Ref. Nos. 0220 & 0230)
--	722130	1	KIT, Shear Bolt -(Includes Ref. Nos. 0160, 0170 & 0190)

Auger Housing Group

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Mfg. No: 1696003



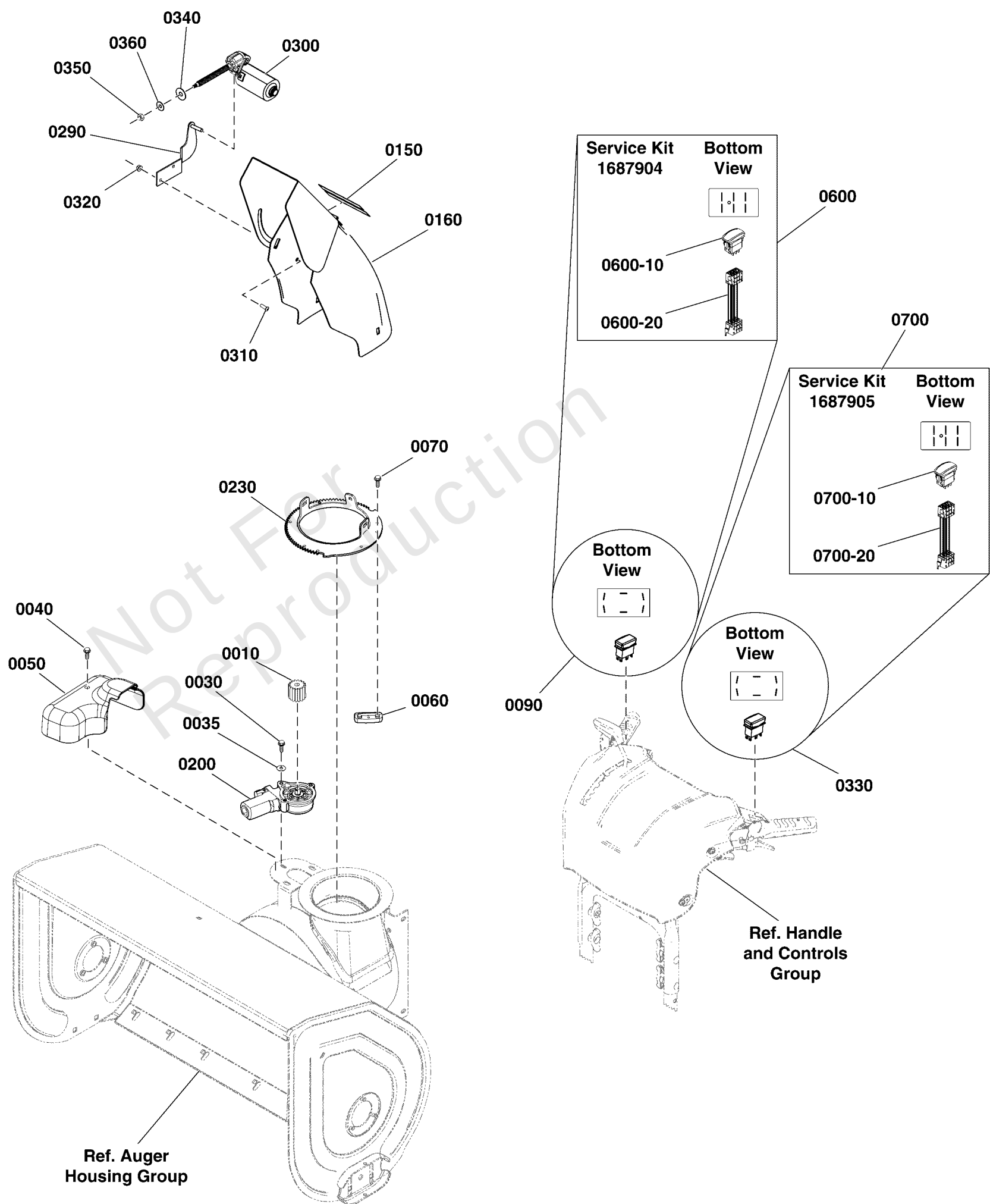
Auger Housing Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1687616	1	HOUSING, 27"
0010	1687617	1	HOUSING, 29"
0020	1736620	2	CLIP, Retainer
0030	1960569	2	SCREW, Truss Head Torx, #10-24 x 3/8
0040	7091290	2	NUT, Nylock, 10 x 24
0060	1736094	1	BRUSH, Cleanout
0070	724427	2	BEARING, Auger Shaft
0080	722839	4	SCREW, Hex Washer Head, 5/16-18 x 3/4
0090	7091547	4	BOLT, Carriage, 3/8-16 x 3/4 GR5
0100	7091619	4	NUT, Hex Flange, 3/8-16
0110	725273	7	NUT, Hex Flange, Serrated Lock, 5/16-18
0150	1727854A	2	SKID, Shoe Reversible
0160	1740745A	1	BLADE, Scraper, 27"
0160	1740746A	1	BLADE, Scraper, 29"
0170	724712	1	RETAINER, Ball Bearing
0180	1705897	1	BEARING, Ball
0190	720018	3	BOLT, Hex, 5/16-18 x 5/8
0200	725521	2	PLUG
0210	7090799	4	BOLT, Carriage, 5/16-18 x 5/8 GR5
0220	1733102A	2	DRIFT CUTTER
0230	723873	2	BOLT, Carriage, 5/16-18 x 3/4
0240	725347	2	NUT, Wing, 5/16-18

Chute & Rotation Group

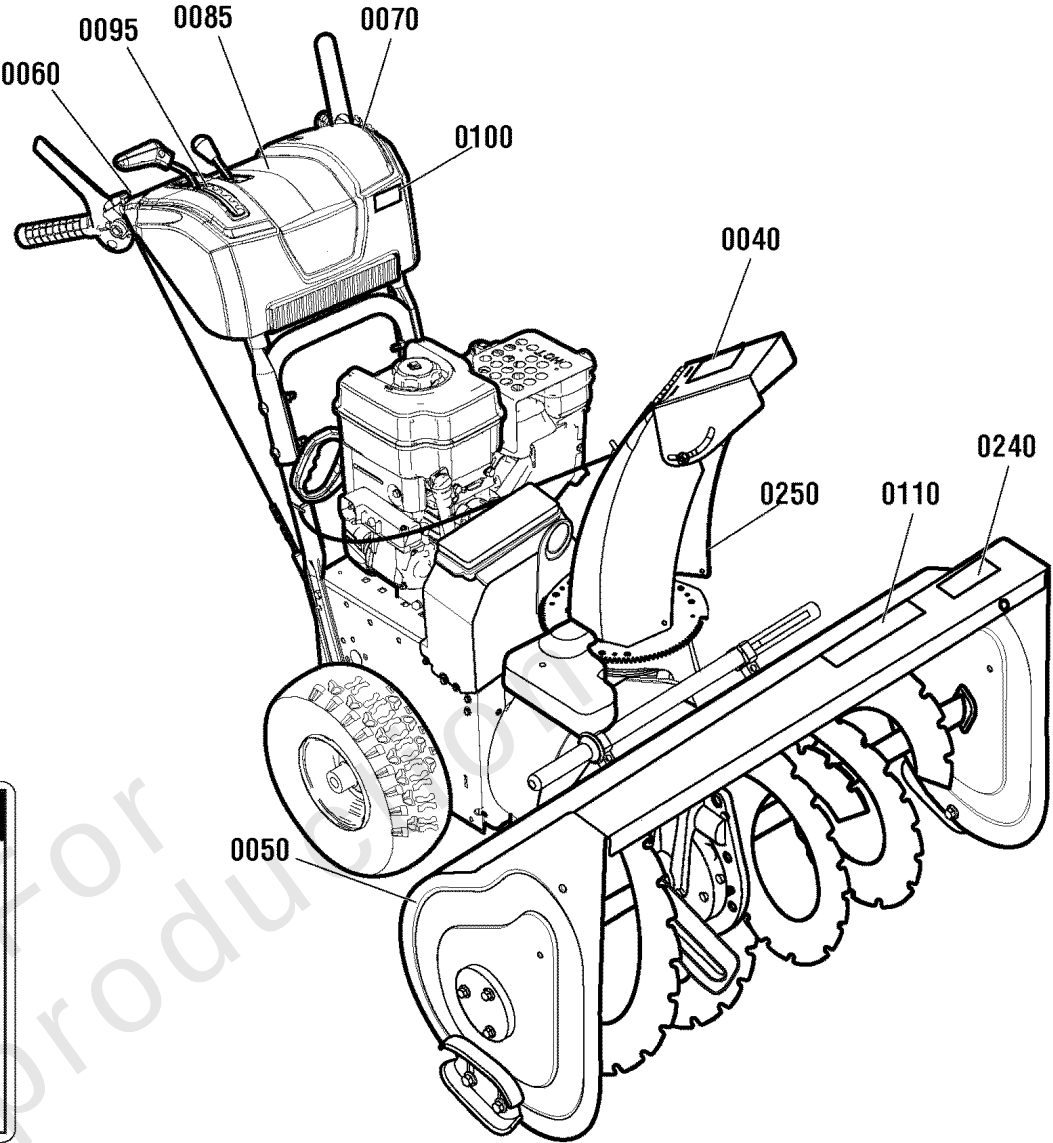
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Mfg. No: 1696003



Chute & Rotation Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1728967	1	PINION
0030	-----	3	SCREW, Button Head Torx, M5 x .8 x 14
0035	-----	3	WASHER, Flat, 1/4
0040	1925592	1	SCREW, Hex Washer Head, Taptite, 1/4-20 x 3/4
0050	-----	1	COVER, Electric Chute Rotation
0060	7011938	3	RETAINER, Spout
0070	1960001	6	SCREW, Hex Washer Head, Plastite, 10-14 x 5/8
0090	1752240	1	SWITCH, Chute Rotation -(-Used Before Serial No. 2017430819) (Order 0600 When Bottom View of Switch Terminal Pattern Matches 0090.)
0150	1738340	2	DECAL, Chute Hinge
0160	1738045D	1	CHUTE
0200	1739309	1	MOTOR, Spout Rotator
0230	1737465A	1	GEAR, Short, Steel Chute
0290	1738267BM	1	BRACKET, Weld Stud
0300	1737941	1	MOTOT, Deflector
0310	1960715	2	SCREW, Truss Head Torx, 1/4-20 x 3/4
0320	1960694	2	NUT, Hex Flange, ESNA, 1/4-20
0330	1737379	1	SWITCH / COVER -(-Used Before Serial No. 2017430819) (Order 0700 When Bottom View of Switch Terminal Pattern Matches 0330.)
0340	1738244	1	WASHER, Rubber
0350	1738245	1	NUT, Left Hand
0360	725330	1	WASHER, Flat, 1/4
0600	1687904	1	WIRE HARNESS ADAPTER KIT, CHUTE ROTATION -(-Used Before Serial No. 2017430819) (Order 0600-10 When Bottom View of Switch Terminal Pattern Matches 0600.)
0600-10	709954	1	SWITCH, Chute Rotation -(-Used After Serial No. 2017430818)
0600-20	84003010	1	HARNESS, Wire -(-Used Before Serial No. 2017430819)
0700	1687905	1	WIRE HARNESS ADAPTER KIT, DEFLECTOR CONT -(-Used Before Serial No. 2017430819) (Order 0700-10 When Bottom View of Switch Terminal Pattern Matches 0700.)
0700-10	709955	1	SWITCH, Deflector Control -(-Used After Serial No. 2017430818)
0700-20	84003010	1	HARNESS, Wire -(-Used Before Serial No. 2017430819)



⚠ DANGER

Amputation hazard

Contact with moving parts inside chute will cause serious injury.

- Shut off engine before unclogging discharge chute.
- Use clean-out tool, not hands!

Risque d'amputation

Tout contact avec des pièces en mouvement à l'intérieur de la goulotte provoquera de graves blessures.

- Arrêter le moteur avant de dégager la goulotte d'éjection.
- Utiliser l'outil de dégagement, pas les mains!

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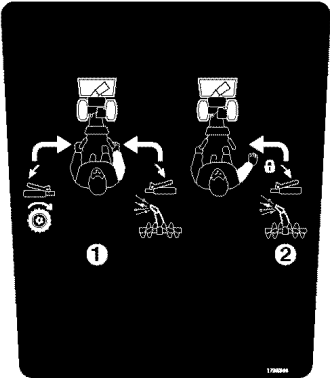
0040

⚠ DANGER Amputation Hazard • Contact with auger will cause serious injury. • Keep hands, feet and clothing away. • Keep bystanders away.		Risque d'amputation • Tout contact avec la tarière provoquera de graves blessures. • Tenir vos pieds, vos mains et vêtements à distance. • Tenir les spectateurs à distance.
Thrown Objects Hazard • Never direct discharge chute towards persons or property.		Danger objets projetés • Ne jamais diriger la chute en direction des personnes ou biens matériels.
Read the operator's manual for operating and safety instructions.		Lire les consignes de sécurité et d'utilisation dans le manuel d'utilisation.
Shut off engine and remove key before performing maintenance or repair work.		Arrêter le moteur et retirer la clé avant d'effectuer tout entretien ou toute réparation.

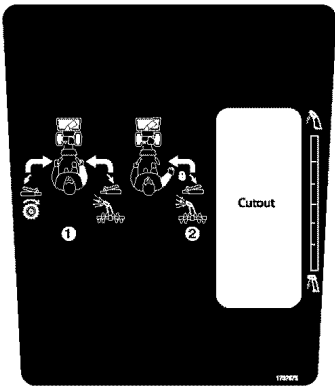
This spark ignition system complies with the Canadian standard (CSA-502). Ce système d'allumage par étincille du véhicule est conforme à la norme ANSI-502 du Canada.

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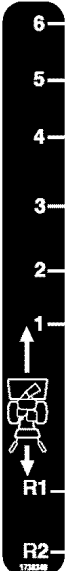
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0085



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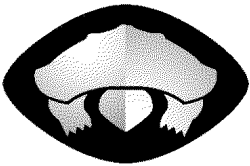


0100



0110

0095



0250



0240



0060



0070

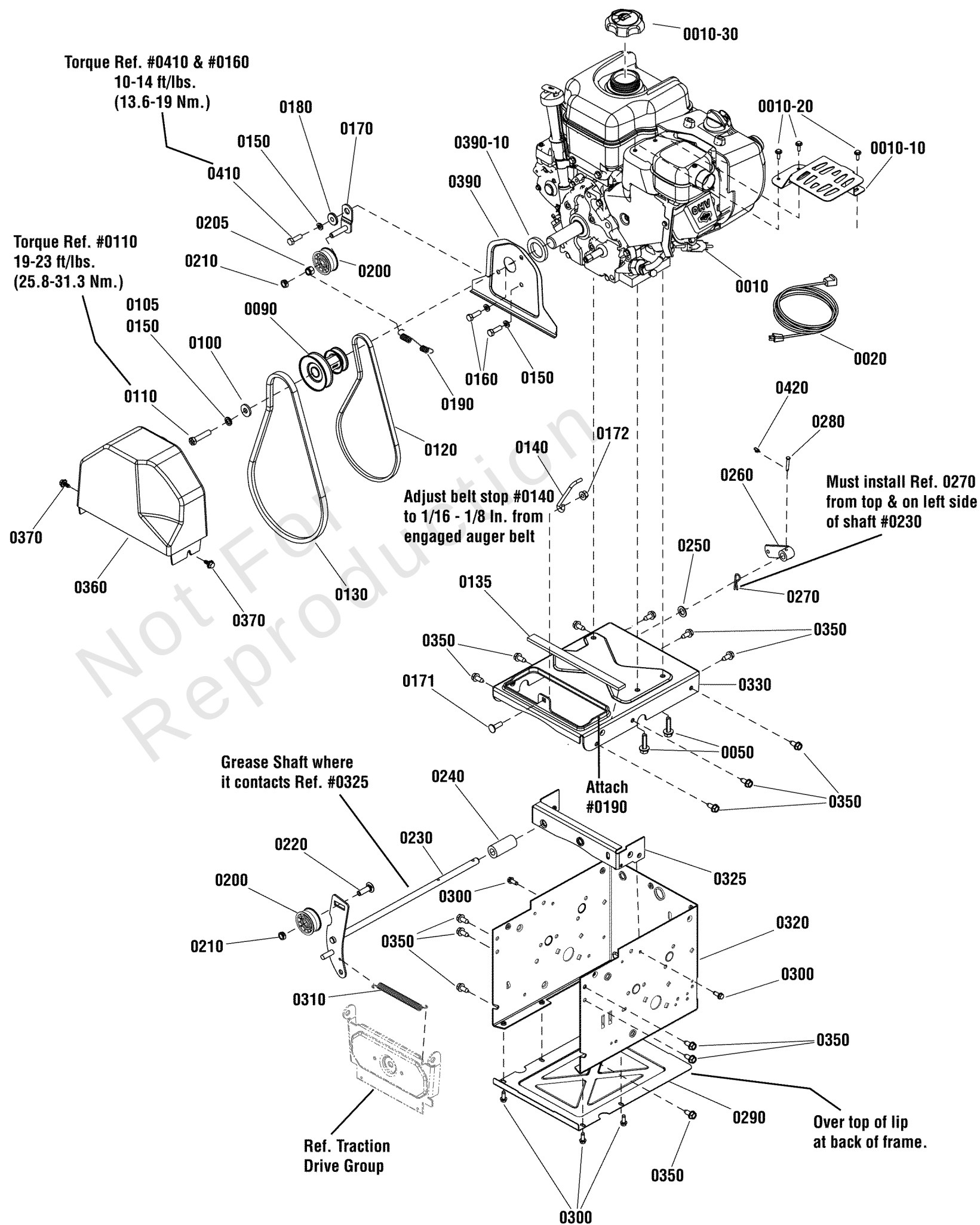
Decals Group

REF NO	PART NO	QTY	DESCRIPTION
0040	1737865YP	1	DECAL, Danger Chute Warning, FR/ENG
0050	1737866	1	DECAL, Danger Foot, FR/ENG
0060	1737869	1	DECAL, Auger Control Symbols
0070	1737870	1	DECAL, Traction Control Symbols
0085	1737875	1	DECAL, Controls, w/ Remote -(Remote Deflector Models)
0085	1738344	1	DECAL, Controls, Free Hand -(Electric Deflector Models)
0095	1738349	1	DECAL, Speed Control
0100	1750407	1	DECAL, Logo, Panel
0110	1751401	1	DECAL, Logo, Housing
0240	1750409	1	DECAL, Model, M1227E
0240	1751439	1	DECAL, Model, M1227EX
0240	1750410	1	DECAL, Model, M1529E
0250	1752570	2	DECAL, Turtle

Engine & Frame Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1696003



Engine & Frame Group

REF NO	PART NO	QTY	DESCRIPTION
0010	15C114-0153-F8	1	* ENGINE, 11TP Briggs & Stratton -(Engine Model: 15C114-0153-F8)
0010	20M314-0136-F1	1	* ENGINE, 14.5TP Briggs & Stratton -(Engine Model: 20M314-0136-F1)
0010-10	797003	1	* GUARD, Muffler -(Used on 11.5TP Models)
0010-10	797095	1	* GUARD, Muffler -(Used on 14.5TP Models)
0010-20	699854	2	* SCREW, Muffler Guard -(Used on 11.5TP Models)
0010-20	699234	2	* SCREW, Muffler Guard -(Used on 14.5TP Models)
0010-30	795027	1	* CAP, Fuel
0020	724865	1	CORD, Electric
0050	75246	4	SCREW, Hex Head, Trilobular, 3/8-16 x 1-1/4
0090	1739514	1	PULLEY
0100	1919381	3	WASHER, 5/16 -(Used on 11.5TP Models)
0100	1922755	1	WASHER, 3/8 -(Used on 14.5TP Models)
0105	1916965	1	LOCKWASHER, Spring, 3/8 -(Used on 14.5TP Models)
0110	722041	1	CAPSCREW, Hex Head, 5/16-24, 1-3/4, G5 -(Used on 11.5TP Models)
0110	2860768	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4 -(Used on 14.5TP Models)
0120	1733324	1	V-BELT, Traction Drive, 3L, 33.13
0130	724801	1	BELT, Auger Drive, V4L 38.10
0135	1750314	1	SEAL, Strip
0140	1737377	1	STOP, Belt
0160	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4, G5
0150	1917356	4	LOCKWASHER, Spring, 5/16 -(Qty 3 used on 14.5TP models)
0170	1739846	1	BRACKET, Idler
0171	1931335	1	BOLT, Carriage, Short Neck, 5/16-18 x 1
0172	1960684	1	NUT, Hex Keps Conical Washer, 5/16-18
0180	-----	1	BUSHING, Idler Bracket
0190	722457	1	SPRING, Extension, Idler
0200	722378	2	IDLER
0205	7091299	1	NUT, Hex Nylock, 3/8-16
0210	1960251	2	NUT, Hex Centerlock Jam, 3/8-16
0220	724823	1	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2, G5
0230	1739574	1	IDLER, Auger
0240	1739964	1	SPACER, Auger Bracket
0250	80003590	1	WASHER, 1/2
0260	1733451	1	ARM, Control
0270	725367	1	PIN, Hair
0280	1736381	1	PIN, Clevis
0290	1737221A	1	PANEL, Bottom
0300	1927429	6	SCREW, Hex Washer Head, Taptite, 1/4-20 x 5/8
0310	722455	1	SPRING, Extension, Auger
0320	1739107D	1	FRAME

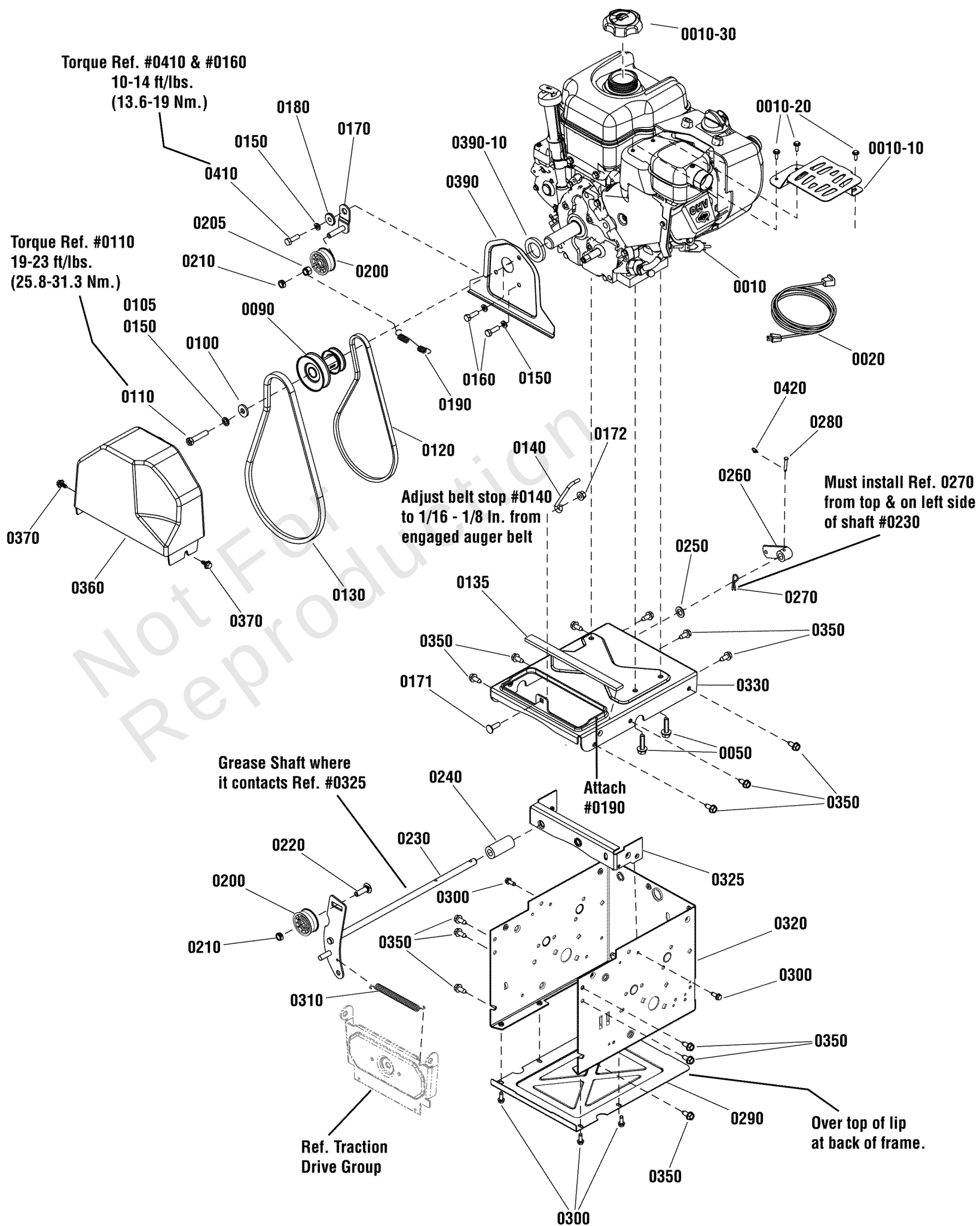
Footnotes:

Note* See your local Briggs & Stratton Distributor for Parts & Service.

Engine & Frame Group

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Engine & Frame Group

REF NO	PART NO	QTY	DESCRIPTION
0325	1739093A	1	ANGLE, Auger & Traction Rod Mounting
0330	1739450D	1	PLATE, Engine -(Used on 11.5TP Models)
0330	1739449D	1	PLATE, Engine -(Used on 14.5TP Models)
0350	1664847	15	SCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4
0360	1750551	1	COVER, Belt
0370	1751355	2	SCREW, Hex Washer Head, Tap, SEMS, 1/4-20 x 3/4
0390	1733868A	1	PLATE, Seal -(Used on 11.5TP Models)
0390-10	1733898	1	SEAL, Foam -(Used on 11.5TP Models)
0410	725996	1	BOLT, Hex, 5/16-24 x 1
0420	7023590	1	PIN, Cotter, Self Locking, 1/4"

Not For
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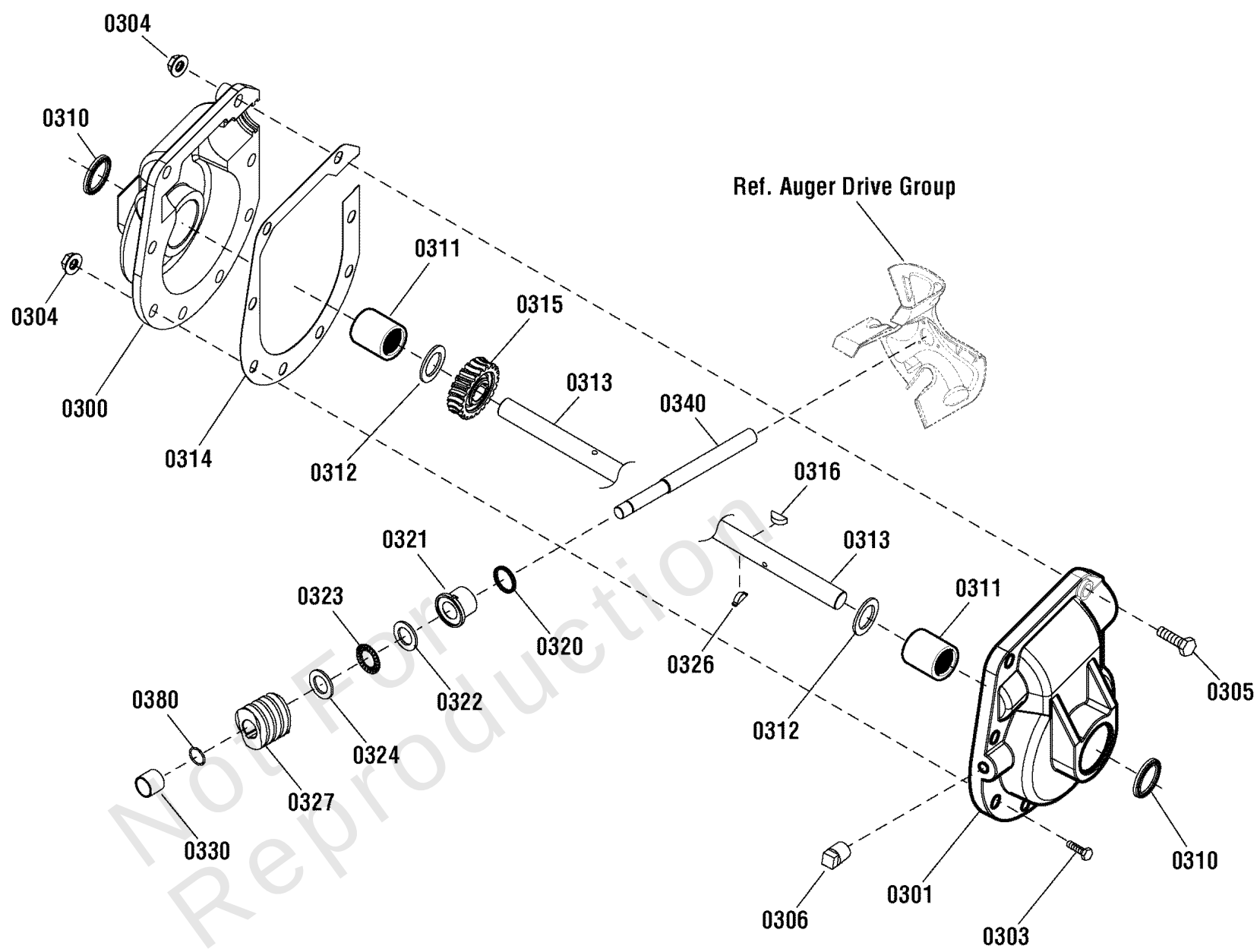
Footnotes:

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Gear Case Assembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1696003



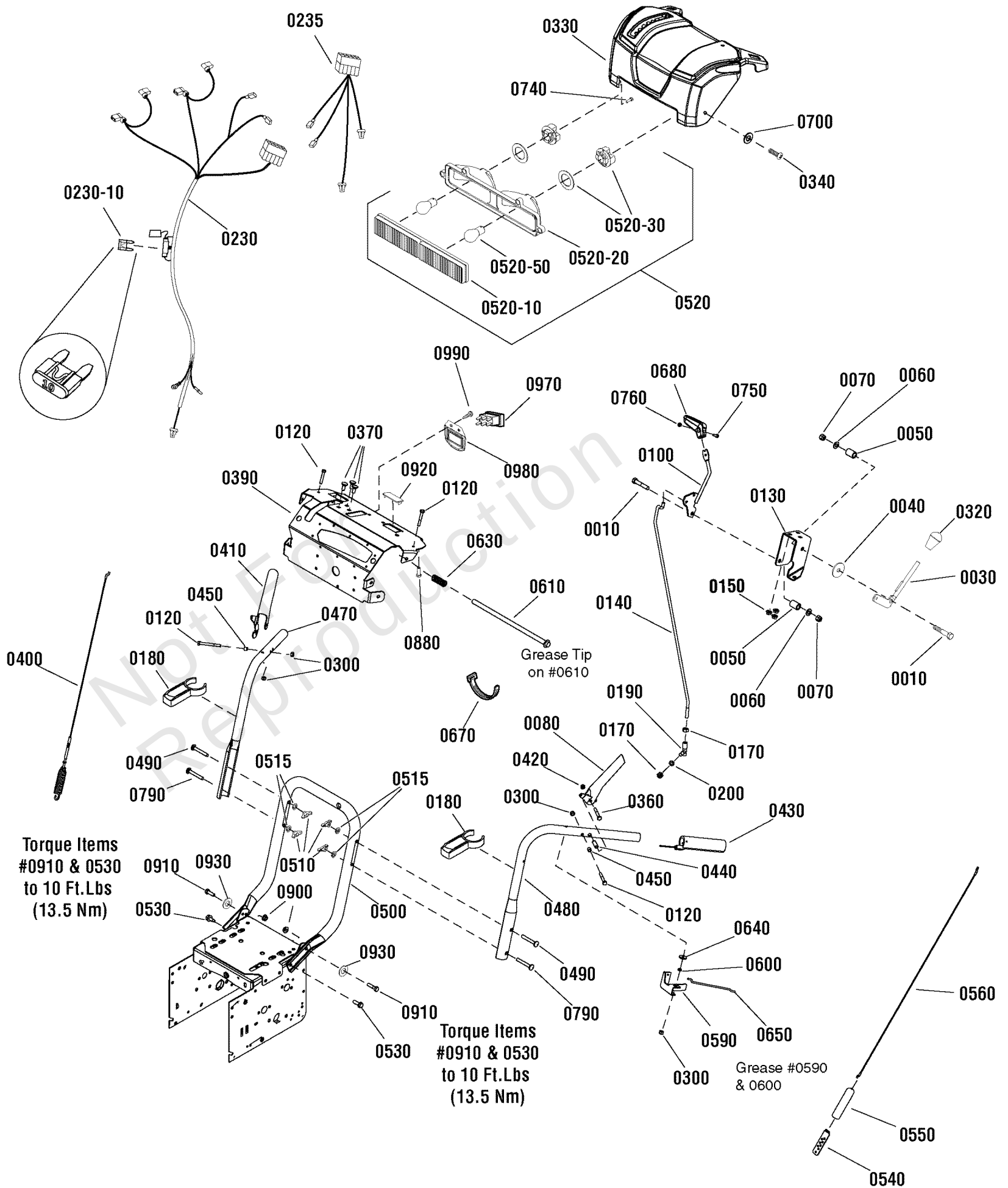
Gear Case Assembly

REF NO	PART NO	QTY	DESCRIPTION
0300	725982	1	CASE, Gear, RH
0301	725981	1	CASE, Gear, LH
0303	725996	7	CAPSCREW, Hex, 5/16-24 X 1
0304	725338	8	NUT, Hex Flange, Serrated, 5/16-24
0305	723575	1	CAPSCREW, Hex Head, 5/16-24 x 1-1/2
0306	724426	1	PLUG, Pipe, 1/4-18
0310	725874	2	SEAL, Oil
0311	724424	2	BEARING, Sleeve, 1 x 1-1/4 x 1
0312	724425	2	WASHER, Flat, 1
0313	728839	1	SHAFT, Auger Out, 27"
0313	724772	1	SHAFT, Auger Out, 29"
0314	725983	1	GASKET
0315	1752500	1	GEAR, Worm
0316	725433	1	KEY, Woodruf
0320	724423	1	RING, Quad
0321	724729	1	BEARING, Flange, 3/4ID x 1-1/8 OD
0322	724079	1	WASHER, Thrust
0323	724352	1	BEARING, Roll Thrust, 3/4 ID x 1-1/4 OD
0324	724079	1	WASHER, Thrust
0326	724366	1	KEY, Hi-Pro
0327	724421	1	WORMGEAR
0330	724420	1	BEARING, Sleeve, 3/4 ID x 7/8 OD
0340	1751535	1	SHAFT, Impeller
0380	1752515	1	RING, Retaining, 3/4"

Handles & Controls Group

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Mfg. No: 1696003



Handles & Controls Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1923701	2	CAPSCREW, Hex Head, 3/8-16 x 2 G5
0030	1736192	1	LEVER, Deflector Control -(Remote Deflector)
0040	1924356	1	WASHER, 3/8 -(Remote Deflector)
0050	-----	2	SPRING
0060	1918266	2	WASHER, 3/8
0070	1919439	2	NUT, Hex Lock, Esna Light, 3/8-16
0080	1737690	1	LEVER, Clutch, Left
0100	1736836	1	SPEED LEVER
0120	1921962	4	CAPSCREW, Hex Head, 1/4-20 x 1-3/4 G5
0130	1737684	1	BRACKET, Controls
0140	1734354	1	ROD, 25.3/8 Long
0150	1931277	3	NUT, Hex Flange, Whiz Lock, 5/16-18
0170	2820263	2	NUT, Hex, 5/16-24
0180	1739487	2	BRACKET, Mounting, Dash
0190	724360	1	BALLJOINT
0200	1917356	1	LOCKWASHER, Spring, 5/16
0230	1750775	1	HARNESS, Wire, Headlights -(Remote Deflector)
0230	1750773	1	HARNESS, Wire, Electric Deflector -(Electric Deflector)
0230-10	-----	1	* FUSE, Mini, 10 Amp
0235	1752164	1	HARNESS, Heated Hand Grip -(M1227EX & M1529E)
0300	1920397	4	NUT, Hex Lock, Esna Light, 1/4-20
0320	1732470	1	KNOB, Internal Thread, 3/8-16 -(Remote Deflector)
0330	1738327	1	DASH ASSEMBLY, Twin Light, With Slot -(Remote Deflector)
0330	1738330	1	DASH ASSEMBLY, Twin Light -(Electric Deflector)
0340	1960001	2	SCREW, Hex Washer Head, Plastite, 10-14 x 5/8
0360	1922837	2	CAPSCREW, Hex Head, 1/4-20 x 1-1/2 G5
0370	723873	3	BOLT, Carriage, 5/16-18 x 3/4
0390	1739500A	1	SUPPORT, Dash Panel
0400	1737544	1	CABLE, Auger Drive
0410	1736323	1	LEVER, Clutch, Right
0420	1923358	2	NUT, Hex Centerlock, 1/4-20
0430	1726317	2	GRIP -(M1227E)
0430	1738124	2	GRIP, Heated -(M1227EX & M1529E)
0435	703044	4	SCREW, #6-20 X .380, Self-Drill Pan HD, Zinc/Clear (Not shown yet)
0440	1736542	2	SPACER, Stepped
0450	1678392	2	SPACER, 1/4ID x 3/8OD x 5/16
0470	1734587A	1	HANDLE, Upper, Right
0480	1734586A	1	HANDLE, Upper, Left
0490	1750299	2	BOLT, Carriage, Curved Head, 5/16-18 x 2-1/4
0500	1737274A	1	HANDLE, Lower
0510	7035744	4	KNOB, Wing, 5/16-18

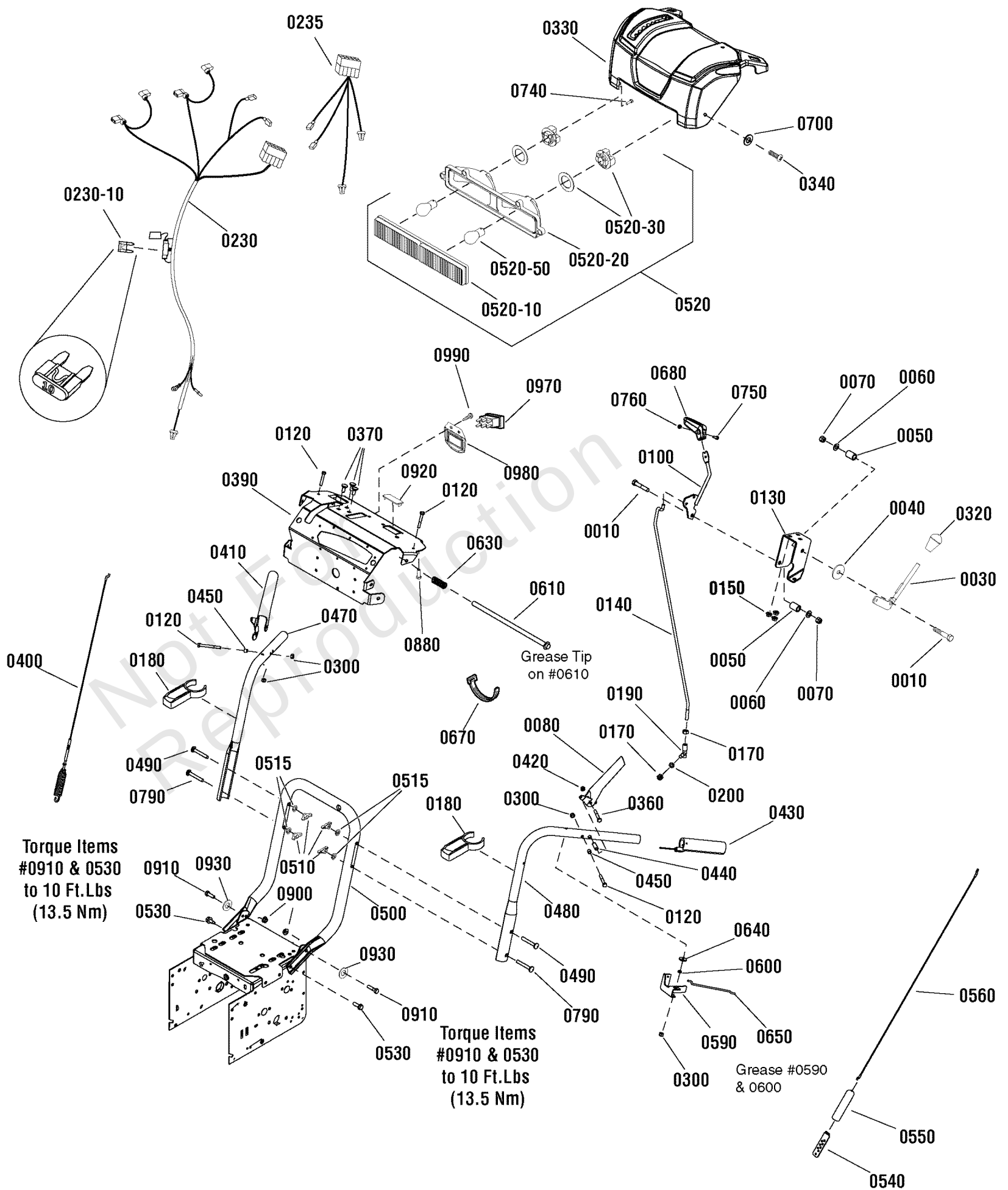
Footnotes:

Note* See your local hardware store for replacement bulbs & fuses.

Handles & Controls Group

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Mfg. No: 1696003



Handles & Controls Group

REF NO	PART NO	QTY	DESCRIPTION
0515	7090391	4	WASHER, Internal Tooth, 5/16
0520	1736176	1	HEADLIGHT ASSEMBLY
0520-10	-----	1	LENS, Twin Light
0520-20	-----	2	DEFLECTOR, Twin Light
0520-30	1736180	2	SOCKET/GASKET ASSEMBLY
0520-50	-----	2	* BULB, 12V - 20W Halogen
0530	1664847	2	SCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4
0540	723259	1	BRACKET, Cable Adjusting
0550	723154	1	BOOT, Spring End Cover
0560	727331	1	CABLE, FR-DR P7 EXT-HDL
0590	1733505A	1	BRACKET, Pivot, Free Hand
0600	1733095	1	SPACER, 1/4ID x 3/8OD x 1/8
0610	1736363	1	ROD & SPRING ASSEMBLY -(Remote Deflector)
0610	1733509SM	1	ROD & SPRING ASSEMBLY -(Electric Deflector)
0630	2108360SM	1	SPRING, Compression, 2-1/4"
0640	1960353	1	WASHER, 1/4
0650	1736360	1	ROD, 5-1/2 Long
0670	7012080	3	TIE, Cable
0680	1733192	1	KNOB, Slot Speed
0700	1921319	2	WASHER, 1/4
0740	7091105	4	SCREW, Hex Washer Head, Hi-Lo, #10-16 x 1/2
0750	1960589	1	SCREW, Round Head Phillips, #10-24 x 3/4
0760	7091290	1	NUT, Hex Lock, 10-24
0790	7091189	2	BOLT, Carriage, Curved Head, 5/16-18 x 2
0880	7091081	2	SCREW, 1/4-15X3/4, Self-Tapping, BZ
0900	1960684	2	NUT, Hex Keps Conical Washer, 5/16-18
0910	723873	2	BOLT, Carriage, 5/16-18 x 3/4
0920	1709188	1	PLUG -(Remote Deflector)
0930	725331	2	WASHER, Flat
0970	1752242	1	SWITCH, Heated Hand Grip -(M1227EX & M1529E)
0980	1739861	1	BRACKET, Heated Hand Grip -(M1227EX & M1529E)
0990	1960556SM	1	SCREW, Pan Head Torx, Taptite, 1/4-20 x 3/4 -(M1227EX & M1529E)

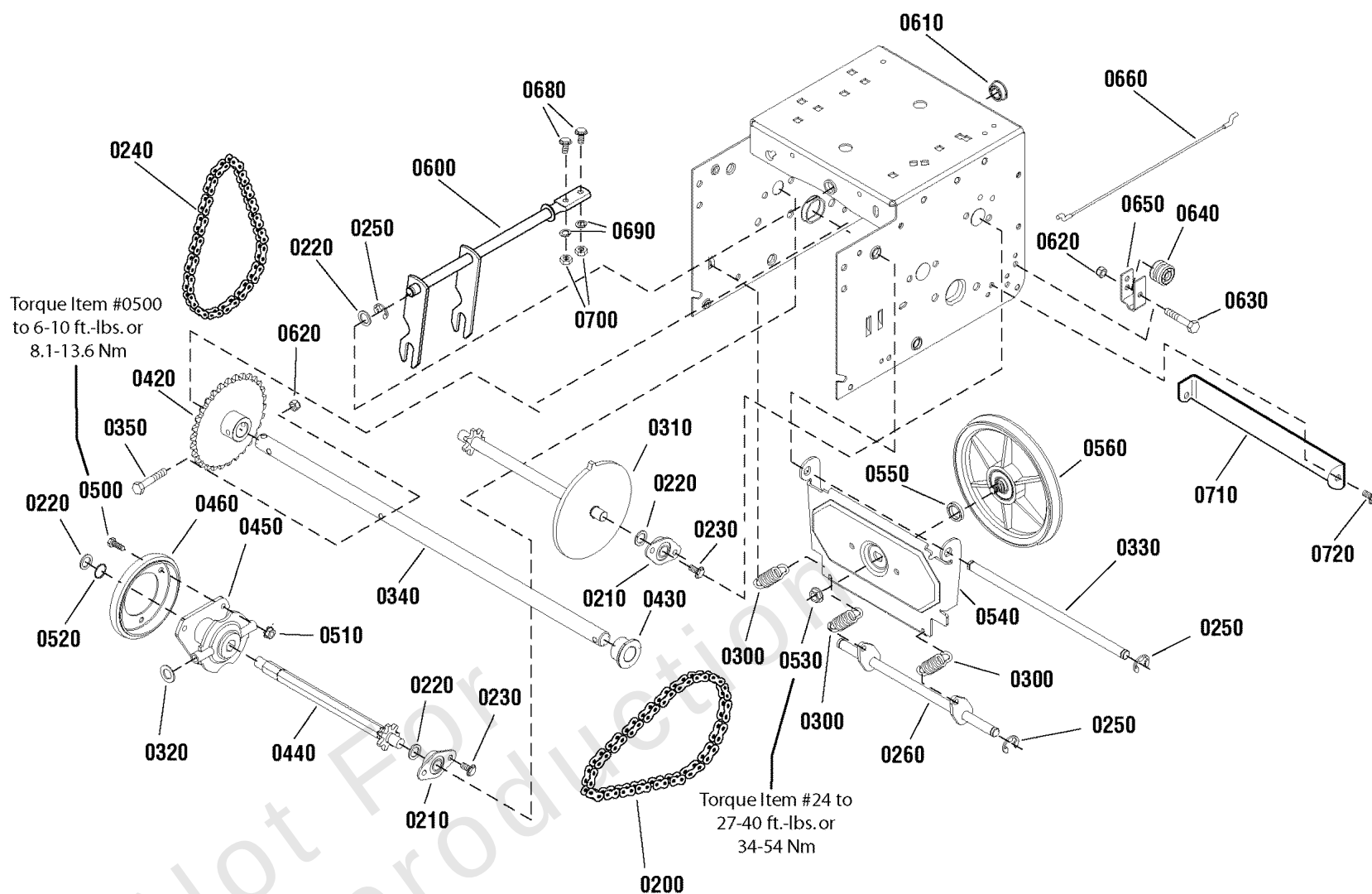
Footnotes:

Note* See your local hardware store for replacement bulbs & fuses.

Traction Drive Group - Standard

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1696003



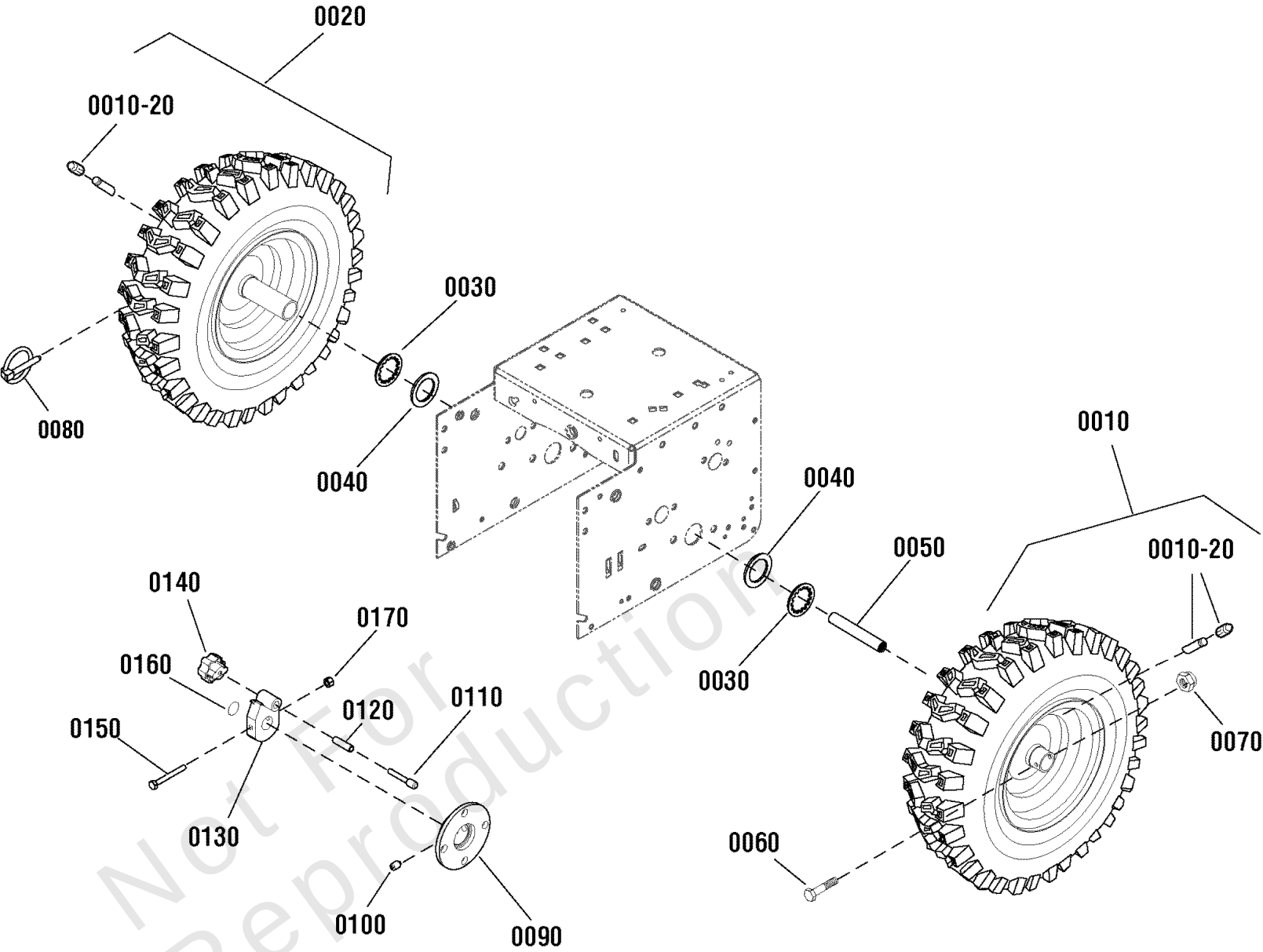
Traction Drive Group - Standard

REF NO	PART NO	QTY	DESCRIPTION
0200	579851MA	1	CHAIN, Roller, 19"
0210	334163MA	4	RETAINER & BUSHING ASSEMBLY
0220	579858MA	5	WASHER, Flat, 1/2
0230	1924856SM	8	SCREW, Hex Washer Head, Taptite, 5/16-18 x 1/2
0240	579868MA	1	CHAIN, Roller, 18 Inch
0250	11X30MA	5	RETAINER, Ring, 7/16
0260	1502105YZMA	1	SPRING LINK
0300	1736469YP	3	SPRING, Extension
0310	1501090MA	1	SPROCKET
0320	1960027SM	2	WASHER, 1/2
0330	1501092YZMA	1	AXLE, Swing Plate
0340	1501563MA	1	AXLE, 23-1/8 Lg
0350	01X193MA	1	BOLT, Hex, 1/4-20 x 1-3/4, G8
0420	1501089MA	1	AXLE SPROCKET, 30T
0430	1501114MA	2	BEARING, Axle, D-Hole
0440	1501100MA	1	HEX SHAFT & SPROCKET ASSEMBLY
0450	1739282YP	1	HUB, Friction Wheel and Bearing
0460	1501435MA	1	WHEEL, Friction
0500	1921959SM	3	CAPSCREW, Hex Head, 1/4-20 x 5/8 G5
0510	1928372SM	3	NUT, Hex Keps, 1/4-20
0520	1733326SM	1	RING, Retaining, .638" OD
0530	15X114MA	1	NUT, Flange Lock, 3/8-24
0540	1501057YZMA	1	PLATE, Swinging
0550	1501158MA	1	SPACER, Friction Pulley
0560	1501115MA	1	FRICITION PULLEY ASSEMBLY
0600	1501110YZMA	1	SPEED SELECTOR ASSEMBLY
0610	579944MA	1	BEARING, Flange, 1/2ID x 7/8OD
0620	1920397SM	2	NUT, Hex Lock, ESNA Light, 1/4-20
0630	1922837SM	1	CAPSCREW, Hex Head, 1/4-20 x 1-1/2 G5
0640	579860MA	1	CABLE SPOOL, Auger Control
0650	1750398YP	1	BRACKET, Cable Spool
0660	1750403YP	1	CABLE, Front Lower Drive
0680	001X38MA	2	BOLT, Hex, 1/4-20 x 5/8
0690	7091576SM	2	NUT, Hex, 1/4-20, G5
0700	1916964SM	2	LOCKWASHER, Spring, 1/4
0710	1502030YZMA	1	BRACKET, Support
0720	1927429SM	2	SCREW, Hex Washer Head, Taptite, 1/4-20 x 5/8

Wheels & Tires Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1696003



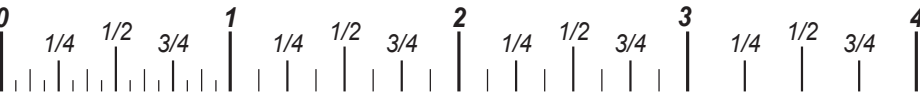
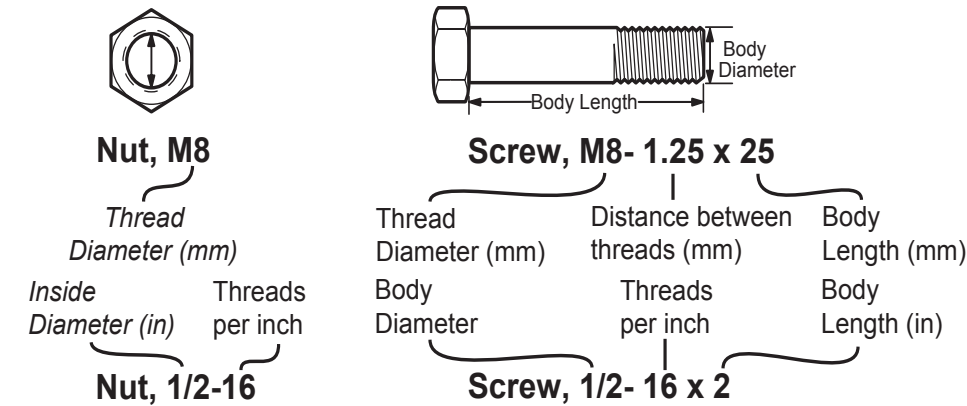
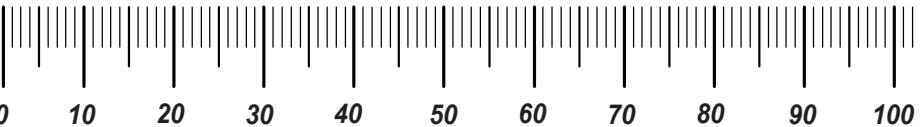
Wheels & Tires Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1739926	1	WHEEL & TIRE ASSEMBLY, 16 x 4.8, P2-539, LH -(Used on 27" Models)
0010	1750348	1	WHEEL & TIRE ASSEMBLY, 16 x 6.5, P2-539, LH -(Used on 29" Models)
0020	1739927	1	WHEEL & TIRE ASSEMBLY, 16 x 4.8, P2-539, RH -(Used on 27" Models)
0020	1750347	1	WHEEL & TIRE ASSEMBLY, 16 x 6.5, P2-539, RH -(Used on 29" Models)
0010-20	2172353	1	VALVE STEM & CAP
0030	1657528	2	RING, Retaining, Self Lock, 3/4
0040	725394	1	WASHER, Flat, 3/4 -(Used on 29" Models)
0050	722102	1	BUSHING, Wheel, 5-1/2" -(Used on 29" Models)
0060	724545	1	BOLT, Hex, 1/4-20 x 1-3/4, G5
0070	722400	1	NUT, Hex, Nylock, 1/4-20 -(Used on 27" Models)
0080	725431	1	PIN, Klik, 1/4 x 1-3/8
0090	722053	2	DISC, Wheel Lock
0100	722727	2	CAPSCREW, Hex Head, 3/8-16 x 1/2 -(Used on 29" Models)
--	1687601	--	KIT, Service, Wheel Lock Assembly -(Includes item #'s 0110, 0120, 0130, 0140 & 0160) (Used on 29" Models)
0110	722309	1	PIN, Wheel Lock, 1/4-20 -(Used on 29" Models)
0120	722412	2	SPRING, Compression -(Used on 29" Models)
0130	1920397	1	NUT, Hex Lock, ESNA Light, 1/4-20 -(Used on 29" Models)
0140	722308	1	KNOB, Wheel Lock -(Used on 29" Models)
0150	725430	1	CAPSCREW, Hex Head, 1/4-20 x 2-1/4, G8 -(Used on 29" Models)
0160	724256	1	DECAL, Wheel Lock -(Used on 29" Models)
0170	722310	1	HUB, Wheel Lock (Used on 29" Models) -(Used on 29" Models)

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).

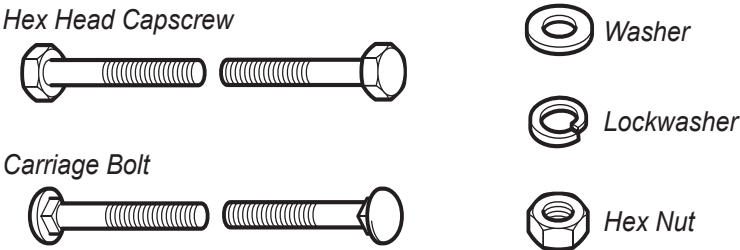
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

