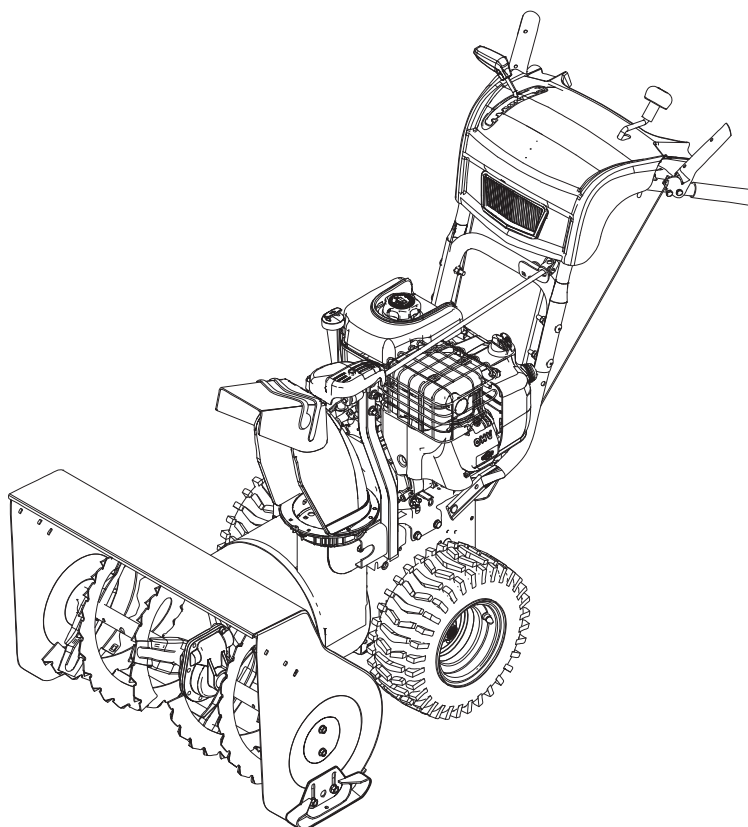




PARTS LIST



Models

Mfg. No.	Description
1695859	MM741450, 14.5TP 29" Dual Stage Snowthrower, CE (2010)

Manual Part No. 1751669

Revision A

Rev. Date: 2/18/2011

Not for
Reproduction

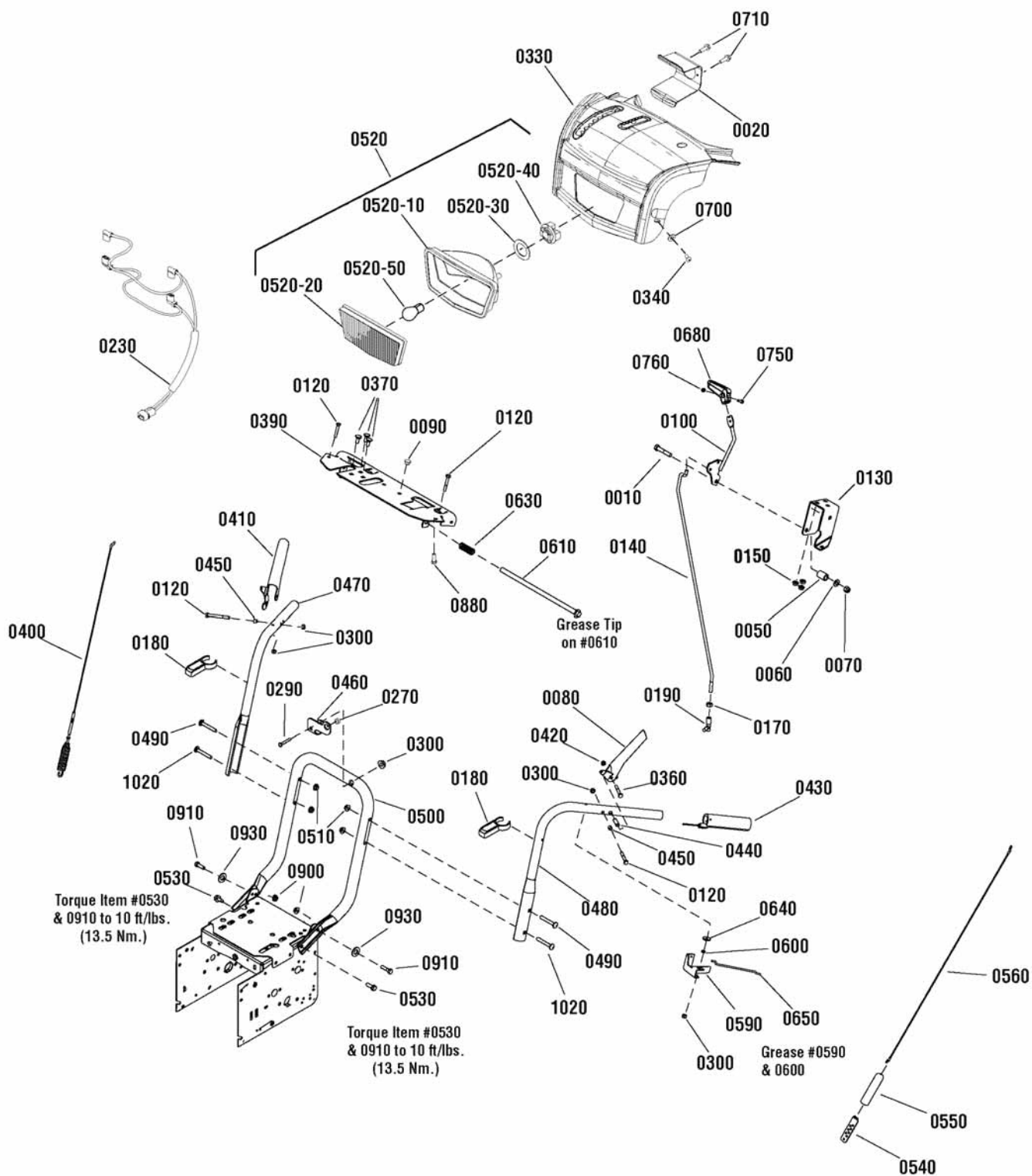
PRODUCT COMPONENTS	PAGES
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Handles & Controls Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

2989195



The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Handles & Controls Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	1923701SM	1	CAPSCREW, Hex Head, 3/8-16 x 2, G5
0020	1736305AYP	1	BRACKET, Light Mount
0050	50786MA	1	SPRING
0060	1918266SM	1	WASHER, 3/8
0070	1919439SM	1	NUT, Hex Lock, ESNA Light, 3/8-16
0080	1739782AYP	1	LEVER, Clutch, LH
0090	1667588SM	1	BUSHING, Nylon, 3/8 ID x 1/2 OD x 2"
0100	1736836YP	1	SPEED LEVER
0120	1921962SM	4	CAPSCREW, Hex Head, 1/4-20 x 1-3/4 G5
0130	1737684YP	1	BRACKET, Controls
0140	1734354SM	1	ROD
0150	1931277SM	3	NUT, Hex Flange, Whiz Lock, 5/16-18
0170	2820263SM	1	NUT, Hex, 5/16-24
0180	1739510YP	2	BRACKET, Mounting
0190	50782MA	1	BALLJOINT
0230	1738286YP	1	WIRING HARNESS, Headlights
0270	1501874MA	1	BUSHING, Chute Crank
0290	1931323SM	1	BOLT, Carriage, Short Neck, 1/4-20 x 2, G5
0300	1920397SM	5	NUT, Hex Lock, ESNA Light, 1/4-20
0330	1736346YP	1	COVER, Panel
0340	1960001SM	2	SCREW, Hex Washer Head, Plastite, 10-14 x 5/8
0360	1750554YP	2	BOLT, Shoulder, 10-24
0370	340720MA	3	BOLT, Carriage, 5/16-18 x 3/4
0390	1739500AYP	1	SUPPORT, Dash
0400	1732471SM	1	CABLE & SPRING ASSEMBLY, Auger Drive, RH
0410	1739783AYP	1	LEVER, Clutch, RH
0420	1933896SM	2	NUT, Hex Lock, Nylon Insert, 10-24
0430	1726317SM	2	GRIP
0440	1736542YP	2	SPACER, Stepped
0450	1678392SM	2	SPACER, 1/4 ID x 3/8 OD x 0.33"
0460	1735589YP	1	BRACKET, Rod Support
0470	1734587ASM	1	HANDLE, Upper, RH
0480	1734586ASM	1	HANDLE, Upper, LH
0490	1960273SM	2	BOLT, Carriage, Short Neck, 5/16-18 x 2-1/4, G5
0500	1737759AYP	1	HANDLE, Lower
0510	1739305YP	4	NUT, Hex Flange, ESNA, 5/16-18
0520	1736208YP	1	HEADLIGHT ASSEMBLY (Includes Ref. Nos. 0520-10, 0520-20, 0520-30, 0520-40 & 0520-50)
0520-10	----	1	DEFLECTOR, Light (Not a serviceable part, order Ref. 0520)
0520-20	----	1	LENS (Not a serviceable part, order Ref. 0520)
0520-30	1736179YP	1	GASKET, Light
0520-40	1736180YP	1	SOCKET, Light
0520-50	----	1	* BULB, Light, 12V 15W, 1156 (Included with Ref. 0520)

Footnotes

Note* See your local hardware store for replacement bulbs.

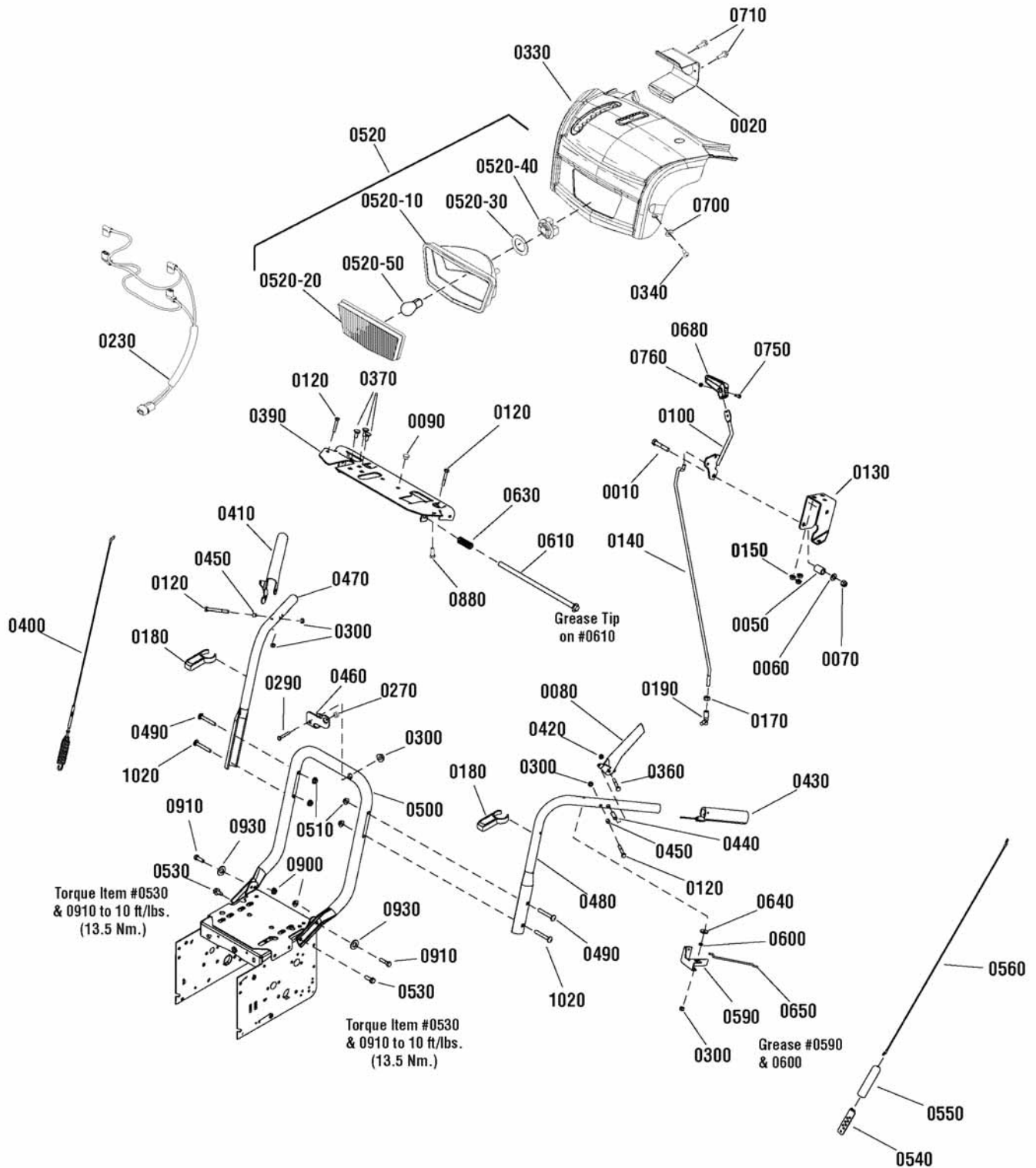
The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Handles & Controls Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

2989195



The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Handles & Controls Group

REF NO	PART NO.	QTY.	DESCRIPTION
0560	1502113MA	1	CABLE, Front Drive
0590	1733505ASM	1	BRACKET, Pivot, Free Hand
0600	1733095SM	1	SPACER, 1/4 ID x 3/8 OD x 1/8"
0610	1733509SM	1	ROD & SPRING ASSEMBLY
0630	2108360SM	1	SPRING, Compression, 2-1/4"
0640	1960353SM	1	WASHER, 1/4
0650	1736360YP	1	ROD, Hold Down
0680	1733192SM	1	KNOB, Slot Speed
0700	1921319SM	2	WASHER, 1/4
0710	316042MA	2	CAPSCREW, Hex Washer Head, #10-HL x 5/8
0750	1960589SM	1	SCREW, Round Head Phillips, #10-24 x 3/4
0760	7091290SM	1	NUT, Hex Lock, Nylon, #10C
0880	7091081SM	2	SCREW, Hex Washer, Self Tap, 1/4-15 x 3/4
0900	1935048SM	2	NUT, Hex Flange, Two Way Lock, 5/16-18
0910	1921333SM	2	CAPSCREW, Hex Head, 5/16-18 x 1, G5
0930	71071MA	2	WASHER, Flat, 11/32
1020	1931338SM	2	BOLT, Carraige, Short Neck, 5/16-18 x 1-3/4, G5

Not for
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Footnotes

Note* See your local hardware store for replacement bulbs.

The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

[illegible]

1695859 - MM741450

Engine & Frame Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	20M314-0126-E1	1	* ENGINE, 14.5 TP Briggs & Stratton (Engine Model: 20M314-0126-E1)
0010-10	796384	1	GUARD, Muffler
0010-20	699234	4	SCREW, Muffler Guard
0010-30	792647	1	CAP, Fuel Tank
0050	002X97MA	4	BOLT, Carriage, 5/16-18 x 1-1/2
0060	028X76MA	4	PUSHNUT, 1/4
0070	1739305YP	4	NUT, Hex Flange, ESNA, 5/16-18
0090	1501109MA	1	PULLEY, Engine
0100	1922755SM	1	WASHER, 3/8
0110	1960428SM	1	CAPSCREW, Hex Head, 3/8-24 x 1-1/4, G8
0120	1733324SM	1	V-BELT, Traction Drive, 3L 33.13
0130	585416MA	1	BELT, Auger Drive, V4L 38.10
0140	1739070YP	1	BELT GUIDE
0150	1916965SM	3	LOCKWASHER, Spring, 3/8
0160	1921515SM	1	CAPSCREW, Hex Head, 5/16-24 x 3/4, G5
0170	1501112YZMA	1	BRACKET, Idler
0180	1501065MA	1	BUSHING, Idler Bracket
0190	165X164MA	1	SPRING, Extension, Idler
0200	1502120MA	2	IDLER, Plastic Ball Bearing
0210	1960251SM	2	NUT, Hex Centerlock Jam, 3/8-16
0220	585781MA	1	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/4, G5
0230	1501226YZMA	1	IDLER, Auger
0240	1501200MA	1	SPACER, 1/2 ID x 1 OD x 1-3/4"
0250	1960027SM	1	WASHER, 1/2
0260	1733451SM	1	ARM, Control
0270	0031X6MA	1	PIN, Hair
0280	1736381YP	1	PIN, Clevis
0290	1740906ASM	1	PANEL, Bottom
0300	1927429SM	12	SCREW, Hex Washer Head, Taptite, 1/4-20 x 5/8
0310	165X159MA	1	SPRING, Extension, Auger
0320	1740571BIYP	1	FRAME
0330	1733583BIYP	1	PLATE, Engine Mount
0340	25X020MA	4	SCREW, Hex Washer Head, 5/16-18 x 1/2
0350	1664847SM	6	SCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4
0360	1733923SM	1	BELT COVER ASSEMBLY
0370	26X306MA	2	SCREW, Hex Washer Head, Tapping, SEMS, 1/4 x 3/4
0390	1733868ASM	1	PLATE, Seal
0390-10	1750185YP	1	SEAL, Shaft
0400	1750172YP	1	STRIP, Seal
0410	910828MA	2	CAPSCREW, Hex, 5/16-24 x 1
0420	7023590SM	1	COTTER PIN, Self Locking, 1/4
0470	1916965SM	1	LOCKWASHER, Spring, 3/8
0480	1922755SM	2	WASHER, 3/8

Footnotes

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

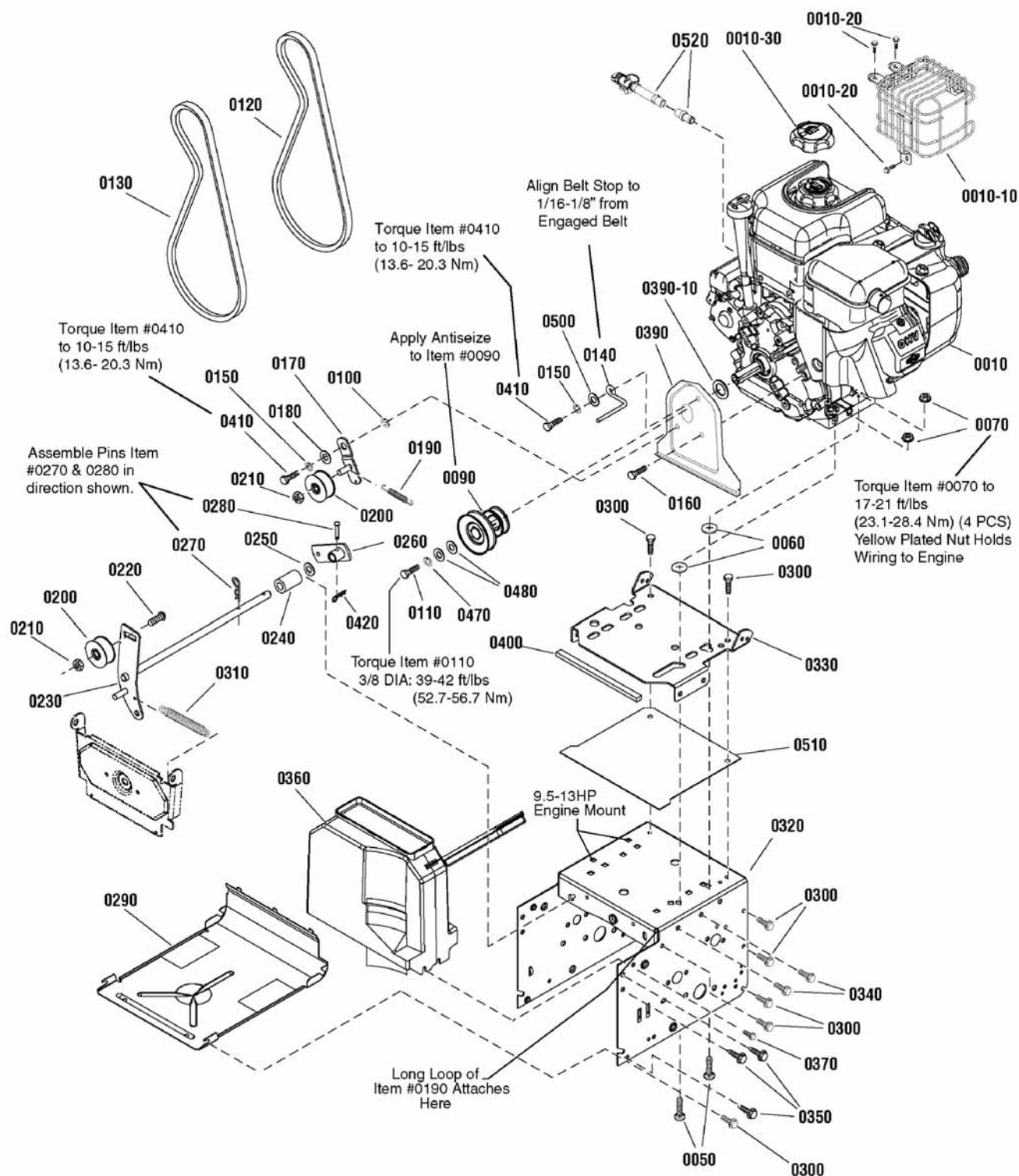
The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Engine & Frame Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

2989143



The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Engine & Frame Group

REF NO	PART NO.	QTY.	DESCRIPTION
0510	1750134YP	1	SEAL, Engine Plate
0520	798980	1	OIL DRAIN ASSEMBLY (Optional Accessory)

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Footnotes

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

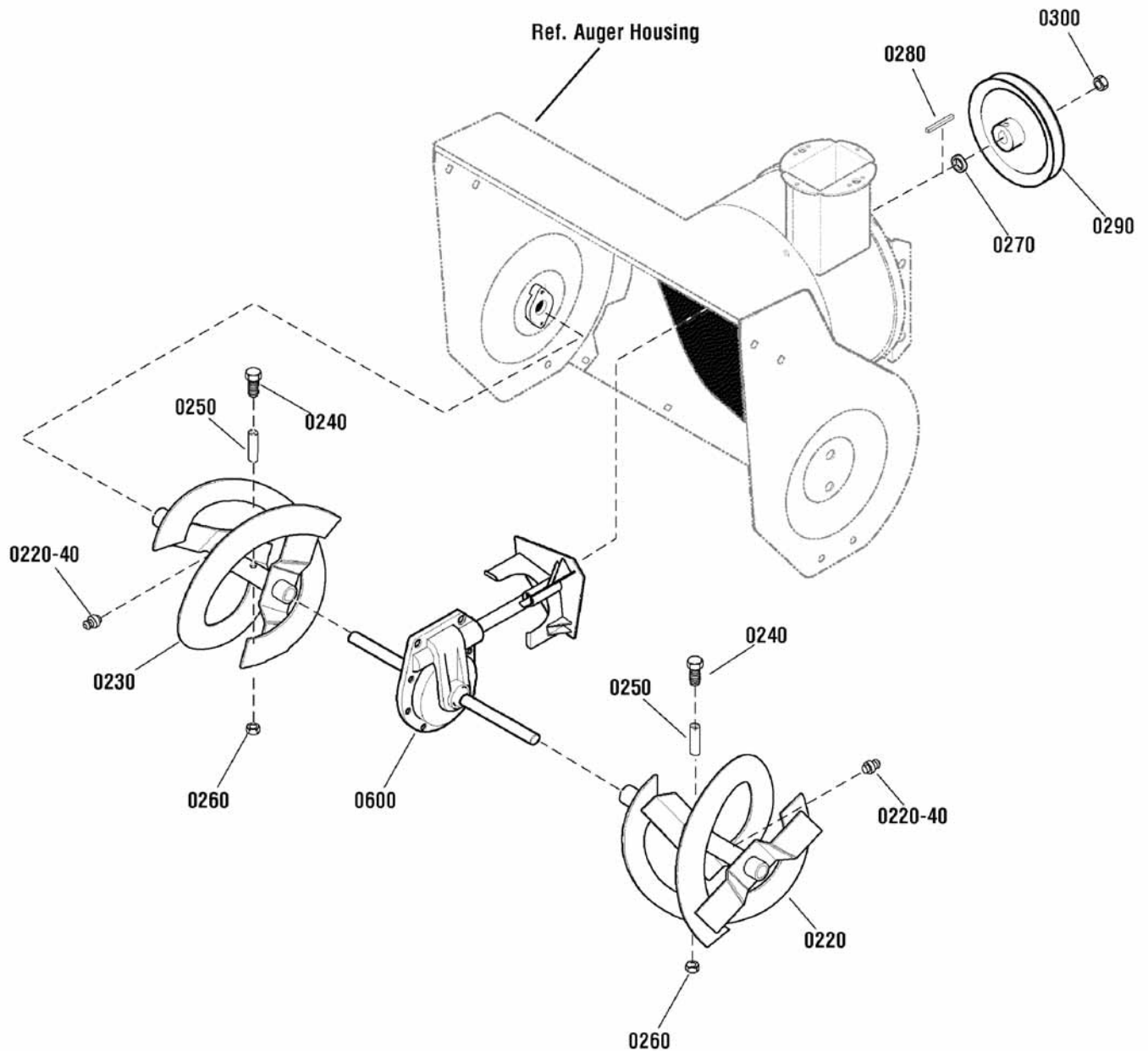
The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Auger Drive Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

2988338



The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Auger Drive Group

REF NO	PART NO.	QTY.	DESCRIPTION
0220	1740738BJYP	1	AUGER ASSEMBLY, LH (Includes Ref. No. 0220-40)
0230	1740739BJYP	1	AUGER ASSEMBLY, RH (Includes Ref. No. 0220-40)
0220-40	10104MA	2	FITTING, Grease
0240	9524MA	2	CAPSCREW, Hex Head, 1/4-20 x 1-3/4
0250	3943MA	2	SPACER, Sleeve
0260	73826MA	2	NUT, Hex 1/4-20
0270	1501158MA	1	SPACER, Friction Pulley
0280	2001022MA	1	KEY, Square 3/16 x 3/4
0290	583146MA	1	PULLEY
0300	15X112MA	1	NUT, Hex Flange, 1/2-20
0600	1738604YP	1	GEAR CASE ASSEMBLY
--	1501216MA	1	KIT, Shear Bolt (Includes Ref. Nos. 0240, 0250 & 0260)

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Reproduction

Footnotes

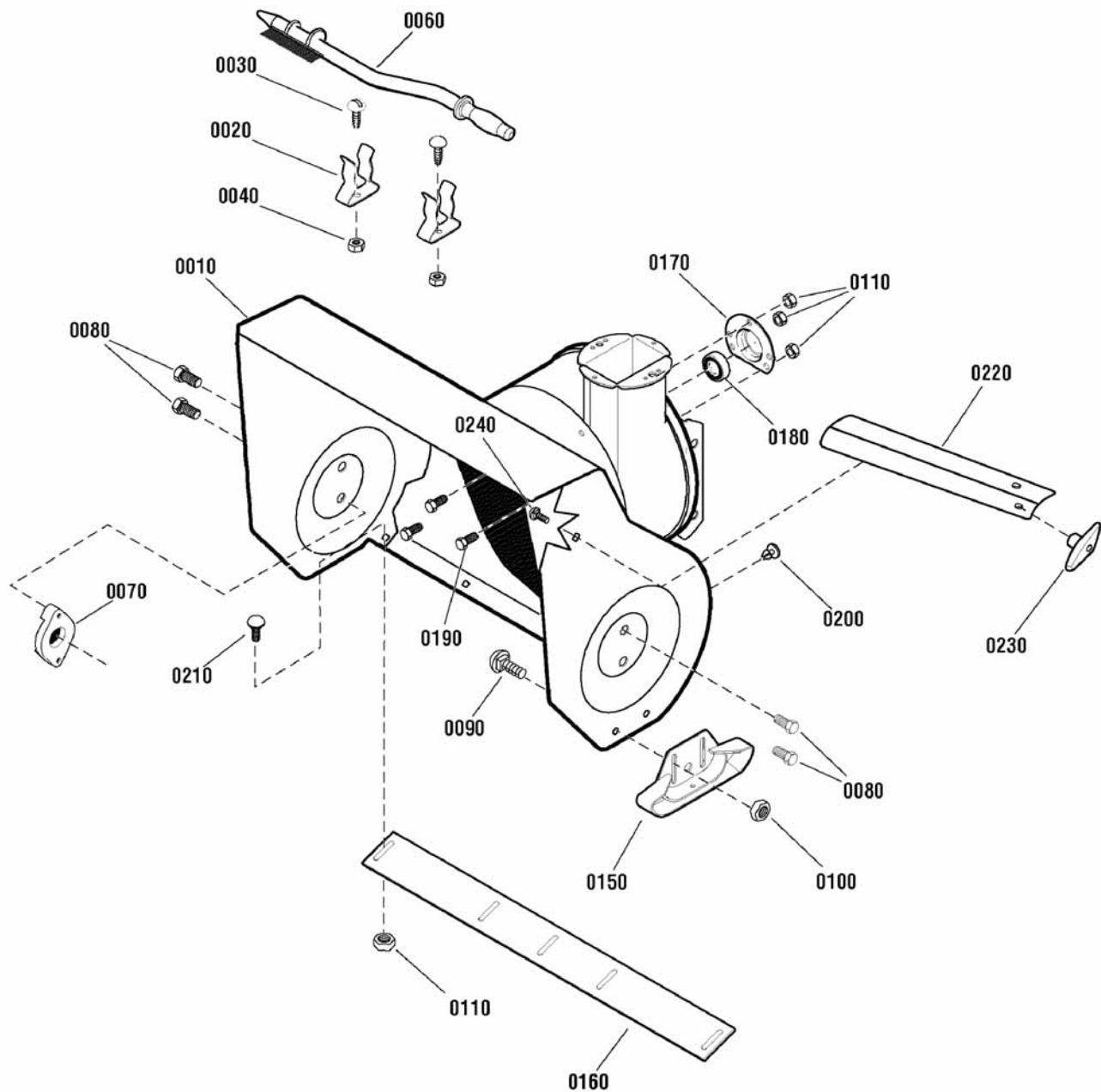
The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Auger Housing Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

2988337



The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Auger Housing Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	1737925BIYP	1	HOUSING, Auger
0020	1736620YP	2	CLAMP
0030	1960569SM	2	SCREW
0040	7091290SM	2	NUT, Hex Lock, Nylon, 3/8-16
0060	1736094YP	1	BRUSH, Cleanout
0070	53757MA	2	BEARING, Auger
0080	25X021MA	4	SCREW, 5/16-18 x 0.75
0090	7091547YP	4	BOLT, Carriage, Short Neck, 3/8-16 x 3/4
0100	7091619SM	4	NUT, Hex Flange, 3/8-16
0110	710026MA	4	NUT, 5/16-18
0150	1737985AYP	2	SKID, Height Adjust
0160	1740746HMA	1	BLADE, Scraper
0170	582957YZMA	1	RETAINER, Ball Bearing
0180	1705897SM	1	BEARING, Ball
0190	001X45MA	3	BOLT, HEX 5/16-18 x 0.62
0200	760040MA	4	PLUG
0210	7090799SM	4	BOLT, Carriage, Short Neck, 5/16-18 x 5/8, G5
0220	1733102ASM	2	DRIFT CUTTER
0230	340720MA	4	BOLT, 5/16-18 x 0.75
0240	711604MA	2	NUT, Wing, Serrated, 5/16-18

Footnotes

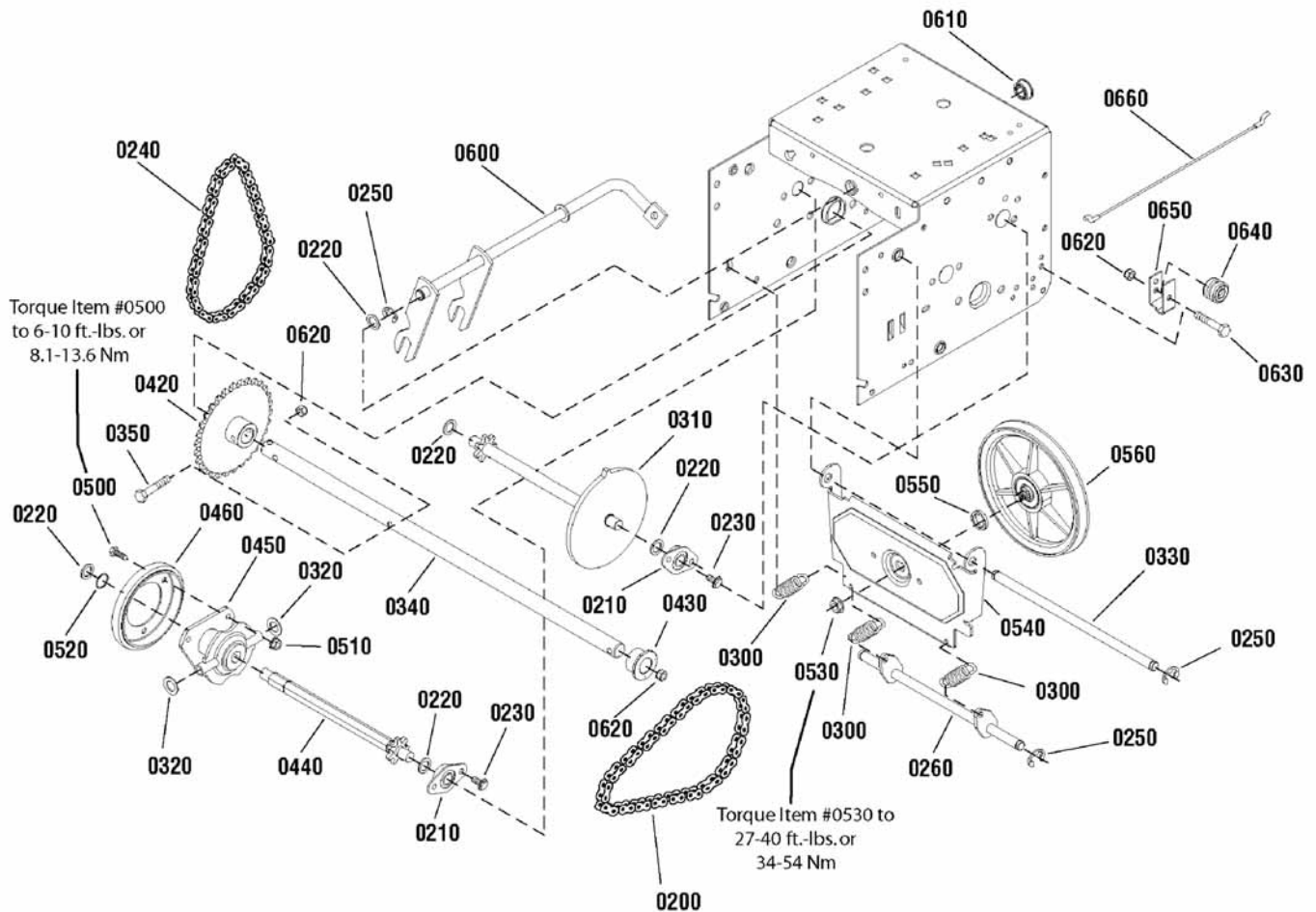
The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Traction Drive Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

2988389



The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Traction Drive Group

REF NO	PART NO.	QTY.	DESCRIPTION
0200	579851MA	1	CHAIN, Roller
0210	334163MA	4	RETAINER & BUSHING ASSEMBLY
0220	579858MA	5	WASHER
0230	1924856SM	8	SCREW, Hex Washer Head, Taptite, 5/16-18 x 1/2
0240	579868MA	1	CHAIN, Roller
0250	11X30MA	5	RETAINER, Ring, 7/16
0260	1502105YZMA	1	SPRING LINK ASSEMBLY
0300	1736469YP	3	SPRING, Extension
0310	1501090MA	1	SPROCKET, Set
0320	1960027SM	2	WASHER, 1/2
0330	1501092YZMA	1	AXLE, Swing Plate
0340	1501563YZMA	1	AXLE, Bushing
0350	01X193MA	1	CAPSCREW, Hex, 1/4-20 x 1-3/4, G8
0420	1501089MA	1	SPROCKET, Axle
0430	1501114MA	2	BEARING, Axle D-Hole
0440	1501100MA	1	HEX SHAFT & SPROCKET ASSEMBLY
0450	337029MA	1	HUB, Friction Wheel & 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 Extension
0530	15X114MA	1	NUT, Flange Lock, 3/8-24
0540	1501057YZMA	1	PLATE, Swinging
0550	1501158MA	1	SPACER, Friction Pulley
0560	1501115MA	1	FRICTION PULLEY ASSEMBLY
0600	1501110YZMA	1	SPEED SELECTOR ASSEMBLY
0610	579944MA	1	BEARING, Flange
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	SPOOL CABLE, Auger Control
0650	1501059YZMA	1	BRACKET, Cable Spool
0660	1501122MA	1	CABLE, Front Drive Lower

Footnotes

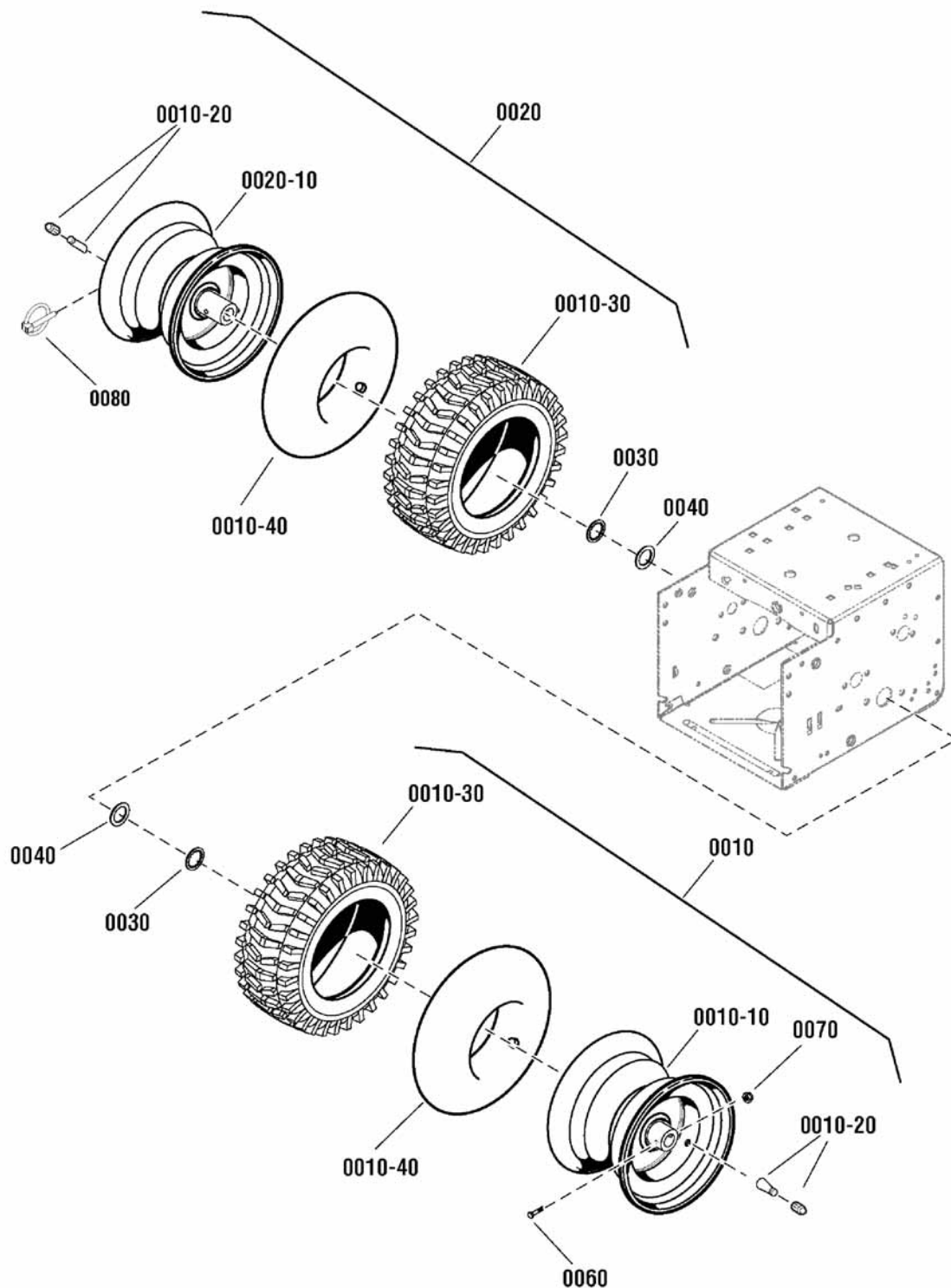
The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Wheels & Tires Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

2989312



The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Wheels & Tires Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	1751296YP	1	WHEEL & TIRE ASSEMBLY, 16 x 4.8-8, LH (Includes Ref. Nos. 0010-10, 0010-20, 0010-30 & 0010-40)
0010-10	-----	1	* WHEEL, Rim, LH
0010-20	2172353SM	2	VALVE STEM & CAP
0010-30	1751298YP	2	TIRE, 4.80 - 8
0010-40	2164247SM	2	TUBE, Tire
0020	1751297YP	1	WHEEL & TIRE ASSEMBLY, 16 x 4.8-8, RH (Includes Ref. Nos. 0020-10, 0010-20, 0010-30 & 0010-40)
0020-10	-----	1	* WHEEL, Rim, RH
0030	1657528SM	2	RING, Retaining
0040	712120MA	2	WASHER, Flat, 3/4
0060	577015MA	1	BOLT, Hex, 1/4-20 x 1-3/4, G5
0070	15X145MA	1	NUT, Hex Nylock, 1/4-20
0080	73842MA	1	PIN, Klik

Footnotes

* Not a servicable part. Order complete wheel and tire assembly.

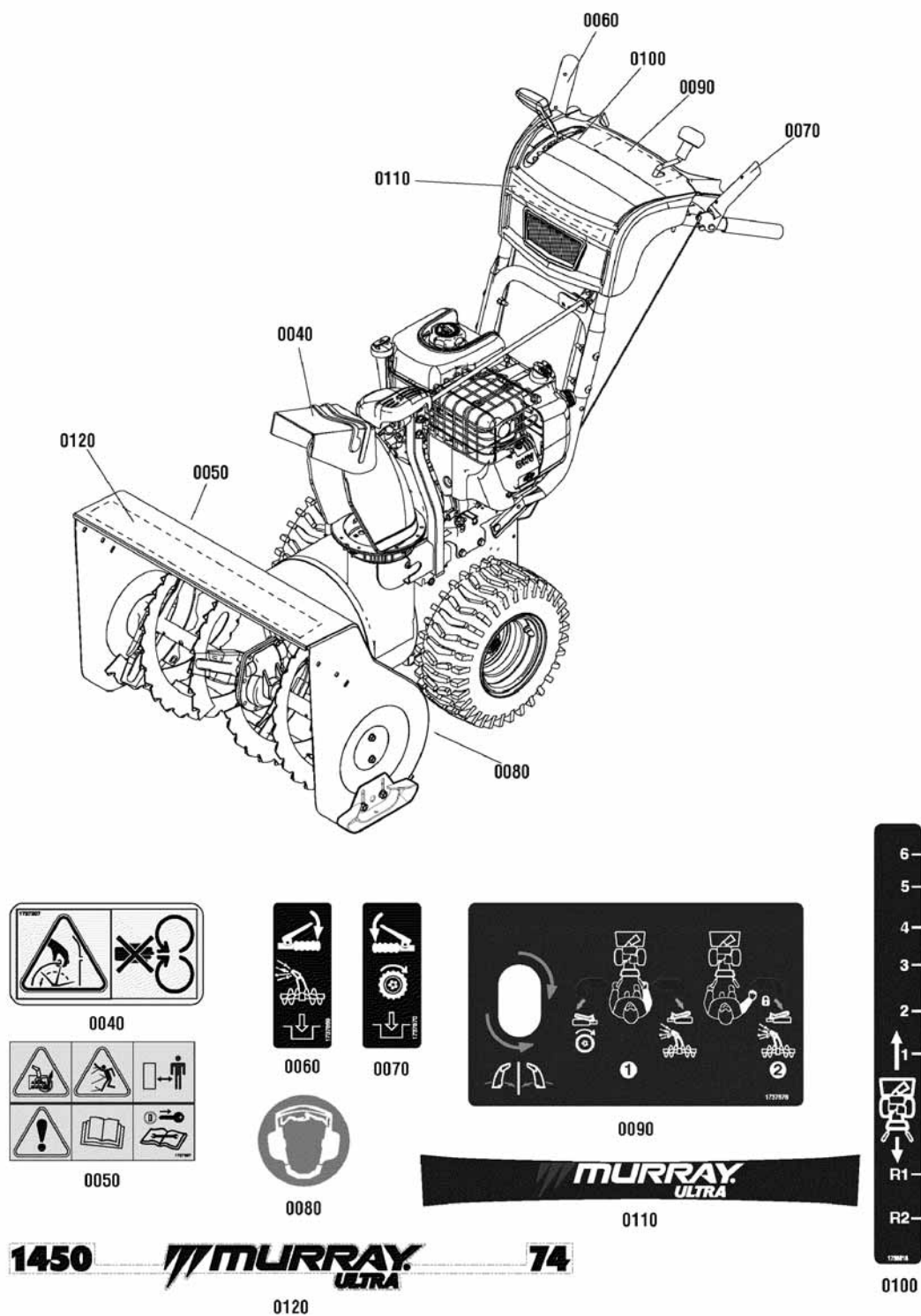
The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Decals Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

2989157



The above parts group applies to the following Mfg. Nos.:
1695859 - MM741450

Decals Group

REF NO	PART NO.	QTY.	DESCRIPTION
0040	1727207SM	1	DECAL, Chute Warnings
0050	1737867YP	1	DECAL, Danger Auger Icons
0060	1737869YP	1	DECAL, Auger Control Symbols
0070	1737870YP	1	DECAL, Traction Control Symbols
0080	304427MA	1	DECAL, Face Headphones
0090	1737876YP	1	DECAL, Control Panel
0100	1736616YP	1	DECAL, Gear Shift
0110	1738317YP	1	DECAL, Logo
0120	1738177YP	1	DECAL, Auger Housing

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Footnotes

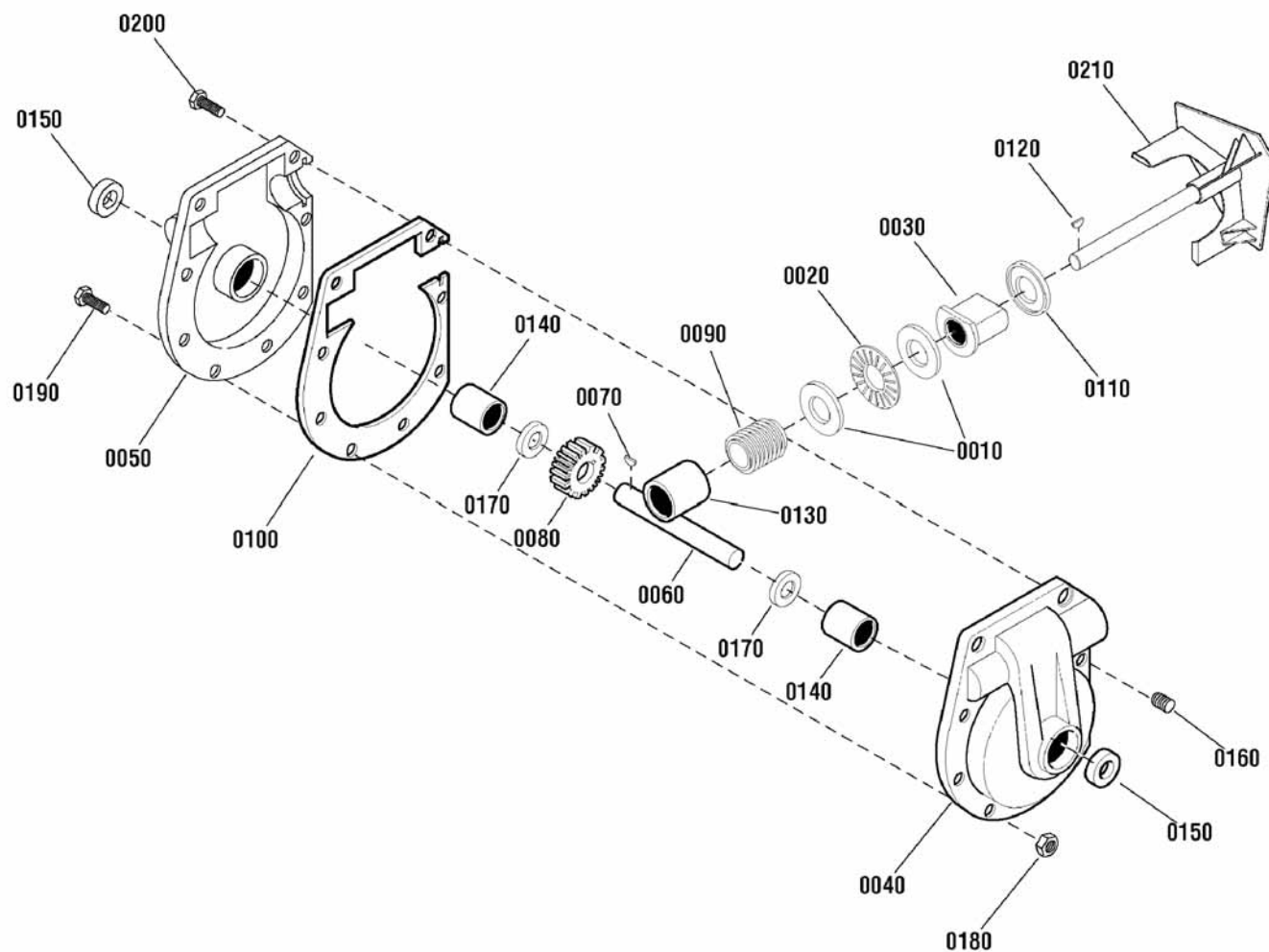
The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Gear Case Assembly

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

1738604



The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Gear Case Assembly

REF NO	PART NO.	QTY.	DESCRIPTION
0010	48275MA	2	WASHER, Thrust
0020	50684MA	1	BEARING, Roll
0030	583126MA	1	BEARING, Flange
0040	895MA	1	GEAR CASE, Left
0050	896MA	1	GEAR CASE, Right
0060	760528MA	1	SHAFT, Auger Out, 29
0070	73905MA	1	KEY, Woodruf
0080	53730MA	1	GEAR, Worm
0090	53732MA	1	WORMGEAR
0100	897MA	1	GASKET, Gear Box
0110	53737MA	1	RING, Quad
0120	50795MA	1	KEY, Hi-Pro
0130	53731MA	1	BEARING, Sleeve
0140	53743MA	2	BEARING, Sleeve
0150	780151MA	2	SEAL, Oil
0160	53749MA	1	PLUG, Pipe
0170	53748MA	2	WASHER, Flat, 1
0180	71100MA	8	NUT, Hex Flange, Serrated, 5/16-24
0190	910828MA	7	BOLT, Hex 5/16-24 x 1
0200	330434MA	1	SCREW, Hex Head, 5/16-24 x 1-1/2
0210	1740584AYP	1	IMPELLER

Footnotes

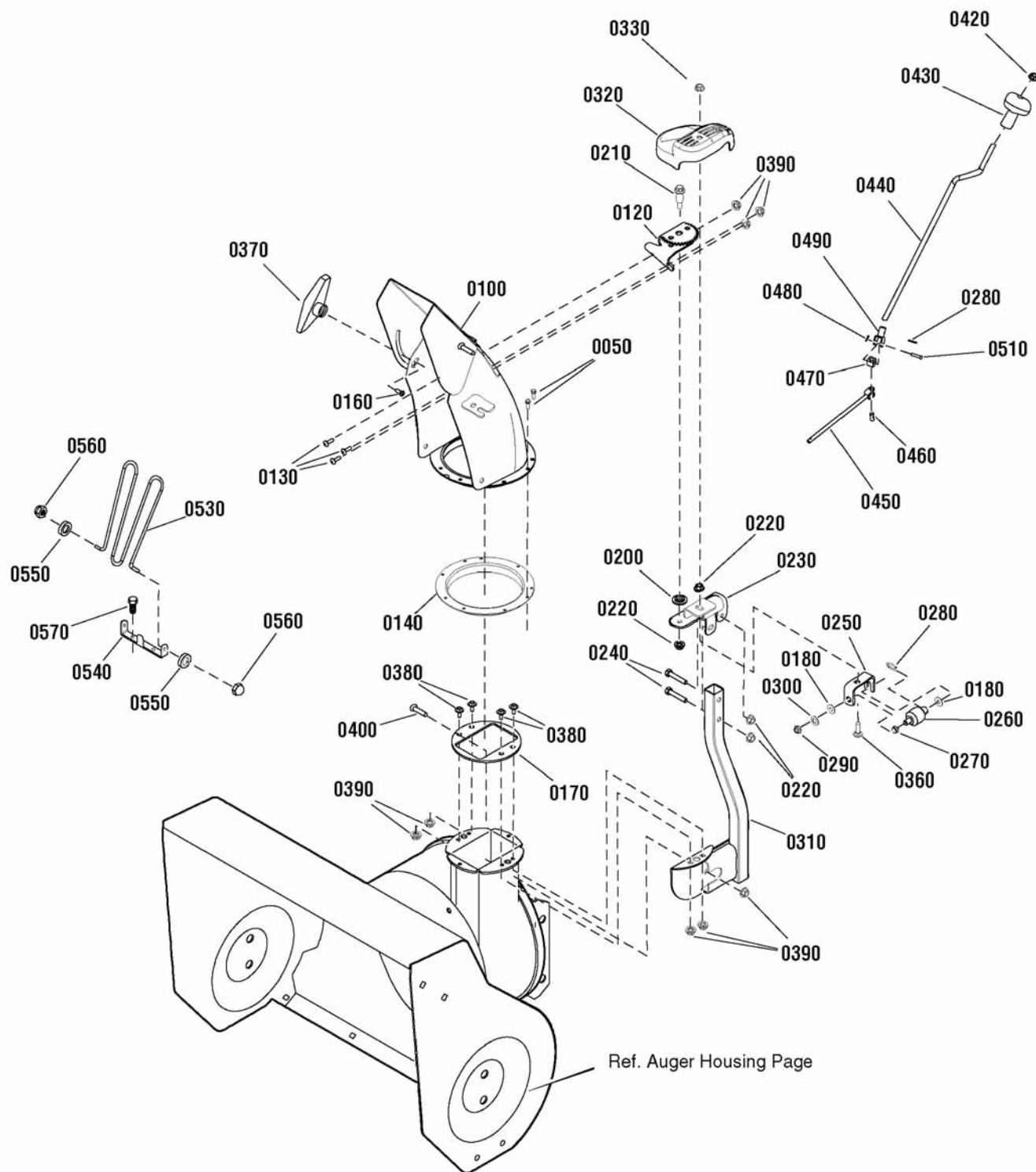
The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Discharge Chute Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

2988426



The above parts group applies to the following Mfg. Nos.:

1695859 - MM741450

Discharge Chute Group

REF NO	PART NO.	QTY.	DESCRIPTION
0050	1925003SM	4	SCREW, Hex Washer Head, Taptite, 1/4-20 x 1/2
0100	1736719YP	1	CHUTE ASSEMBLY
0120	1736038YP	1	GEAR / CHUTE SUPPORT
0130	1960715SM	3	SCREW, Truss Head, Torx Drive, 1/4-20 x 3/4
0140	1736444AYP	1	RING, Chute Base
0160	002X97MA	1	BOLT, Carriage, 5/16-18 x 1-1/2
0170	1735767YP	1	GUIDE, Chute Ring
0180	2860210SM	2	WASHER, Nylon, 3/8
0200	1733026SM	1	WASHER, 1/2
0210	1732412SM	1	BOLT, Shoulder, 5/16-18 x 5/8, G5
0220	1960684SM	4	NUT, Hex Keps, 5/16-18
0230	1734423ASM	1	SUPPORT, Gear Crank
0240	1922127SM	2	CAPSCREW, Hex Head, 5/16-18 x 1-3/4, G5
0250	1734440SM	1	SUPPORT, Worm
0260	1734439SM	1	WORM, Chute, Left
0270	1667588SM	1	BUSHING
0280	1501293MA	1	PIN, Hair
0290	1960762SM	1	NUT, Hex Lock Jam, Esna Light, 3/8-24
0310	1736195AYP	1	CHUTE SUPPORT
0300	1734542SM	1	WASHER, Cup
0320	1734442SM	1	COVER, Gear
0330	1935048SM	1	NUT, Hex Flange, Two Way Lock, 5/16-18
0360	2X100MA	2	BOLT, Carriage, 5/16-18 x 1
0370	1501260MA	1	KNOB, Wing
0380	691005	4	SCREW, Hex Washer Head
0390	5025391SM	8	NUT, Hex Nylock Flange, 1/4-20
0400	02X101MA	1	BOLT, Carriage, 1/4-20X0.75
0420	1960093SM	1	NUT, Push
0430	1714084SM	1	KNOB, Spinner
0440	1735661YP	1	CRANK, Chute Handle
0450	1735660YP	1	ROD AND YOKE
0460	578060MA	1	PIN, Universal Joint
0470	578063MA	1	BLOCK, Universal Pivot
0480	579493MA	1	PIN, Cotter
0490	1733611SM	1	YOKE AND TUBE, Chute
0510	578309MA	2	PIN, Clevis
0530	1733475SM	1	GUARD, Chute
0540	1737683AYP	1	BRACKET, Chute Guard
0550	1738174YP	2	GROMMET, Chute Guard
0570	1925003SM	2	SCREW, Hex Washer Head, Taptite, 1/4-20 x 1/2
0560	1960140SM	2	NUT, Push

Footnotes

The above parts group applies to the following Mfg. Nos.:

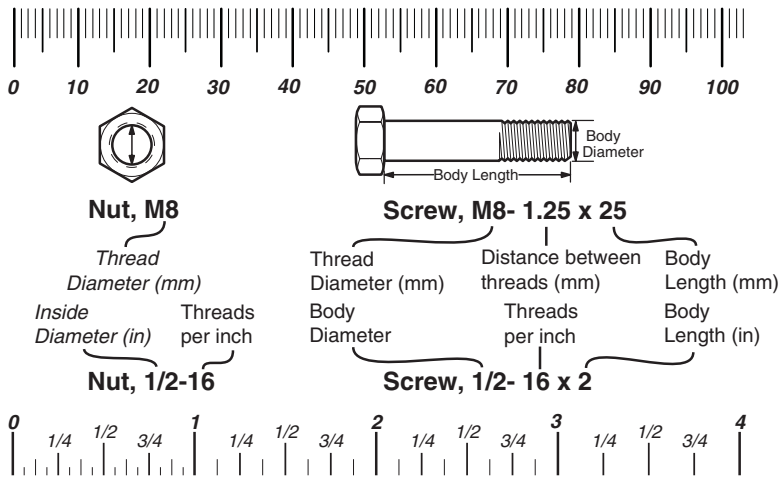
1695859 - MM741450

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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*, (*1.25 thread diameter*). The final number is the body length of the bolt or screw, 2 inches (50mm).

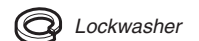
Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	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

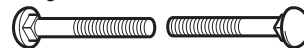
- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock 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

Hex Head Capscrew



Carriage Bolt



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—22 mm

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Briggs & Stratton Yard Power Products Group

3515 N. 124 Street / PO Box 702
Wauwatosa, WI 53222 USA

www.murray.com

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