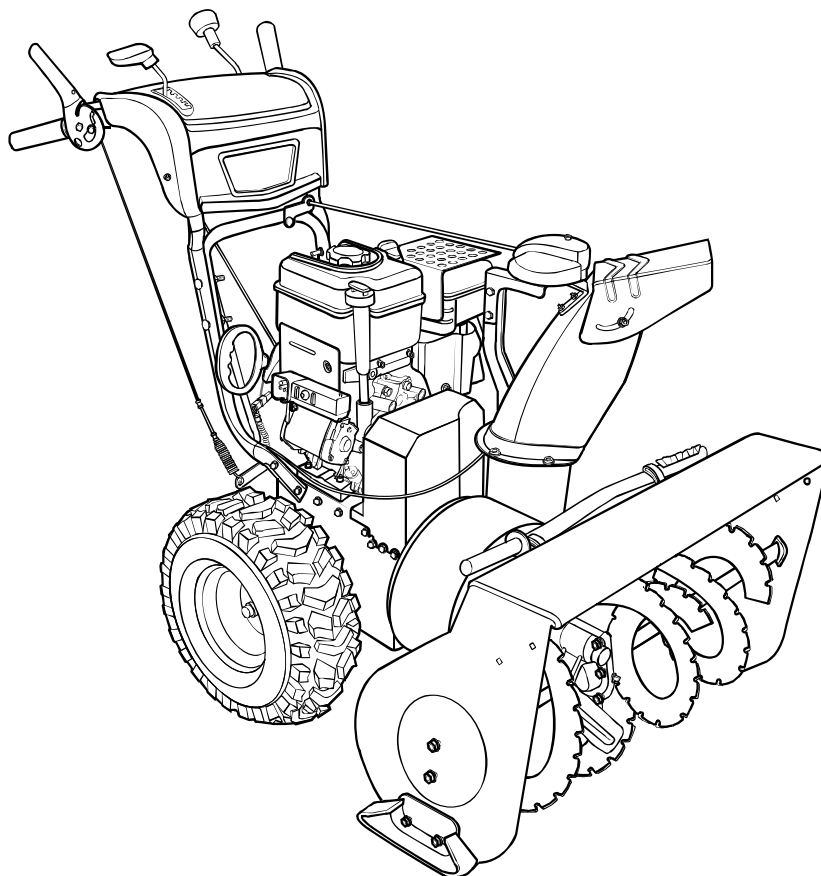


CANADIANA

Parts Manual



CM691150

27" Dual Stage Snowthrower

Models

Mfg. No.
1695866

Description

CM691150, Canadiana 11.5TP 27" Dual Stage
Snowthrower, CE (2010)

Manual Part No. 1751217

Revision A

Rev. Date: 8/4/2010

Not for
Reproduction

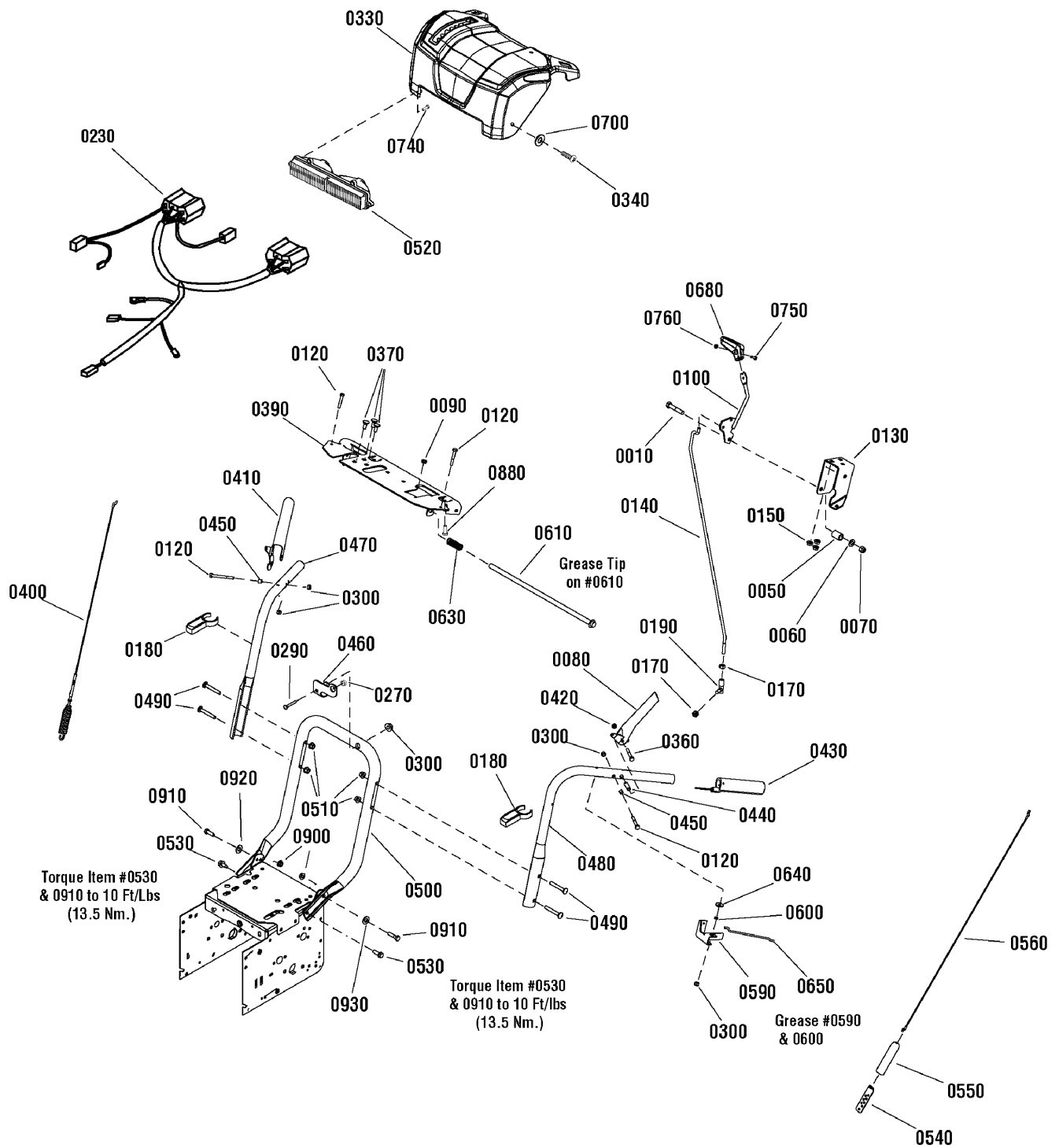
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Reproduction

Handles and Controls Group

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

2989199



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

1695866 - CM691150

Handles and Controls Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	1923701SM	1	CAPSCREW, Hex Head, 3/8-16 x 2, G5
0050	50786MA	1	SPRING, 3/4
0060	1918266SM	1	WASHER, 3/8
0070	1919439SM	1	NUT, Hex Lock, ESNA Light, 3/8-16
0080	1737690YP	1	LEVER, Clutch, Left
0090	1667588SM	1	BUSHING, Nylon, 3/8ID x 1/2OD x 1/4 Long
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, Link Speed Control
0150	1931277SM	3	NUT, Hex Flange, 5/16-18
0170	2820263SM	1	NUT, Hex, 5/16-24
0180	1739487YP	2	BRACKET, Mounting, Panel
0190	50782MA	1	BALL JOINT
0230	1738286YP	1	WIRING HARNESS, Headlights
0270	1501874MA	1	BUSHING, Chute Crank
0290	1931323SM	1	BOLT, Carriage, 1/4-20 x 2, G5
0300	1920397SM	5	NUT, Hex Lock, ESNA Light, 1/4-20
0330	1736186YP	1	DASH ASSEMBLY, Twin Light
0340	1960001SM	2	SCREW, Pan Head Torx, Taptite, 1/4-20 x 3/4
0360	1750554YP	2	BOLT, Shoulder, 1/4 x 1-1/4
0370	340720MA	3	BOLT, Carriage, 5/16-18 x 3/4
0390	1739500AYP	1	SUPPORT, Dash Panel
0400	1732471SM	1	CABLE AND SPRING ASSEMBLY, Auger Drive, Right
0410	1736323YP	1	LEVER, Clutch, Right
0420	1933896SM	2	NUT, Hex Lock, Nylon Insert, 10-24
0430	1726317SM	2	GRIP
0440	1736542YP	2	SPACER, Stepped
0450	1678392SM	2	SPACER, 1/4ID x 3/8OD x 5/16
0460	1735589YP	1	BRACKET, Rod Support
0470	1734587ASM	1	HANDLE, Upper, Right
0480	1734586ASM	1	HANDLE, Upper, Left
0490	1960273SM	4	BOLT, Carriage, 5/16-18 x 2-1/4 G5
0500	1737759AYP	1	HANDLE, Lower
0510	1739305YP	2	NUT, Hex Flange, 5/16-18
0520	1736176YP	1	HEADLIGHT ASSEMBLY
0530	1664847SM	2	CAPSCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4
0540	313441MA	1	BRACKET, Cable Adjusting
0550	308146MA	1	BOOT, Spring End Cover, 4"

Footnotes

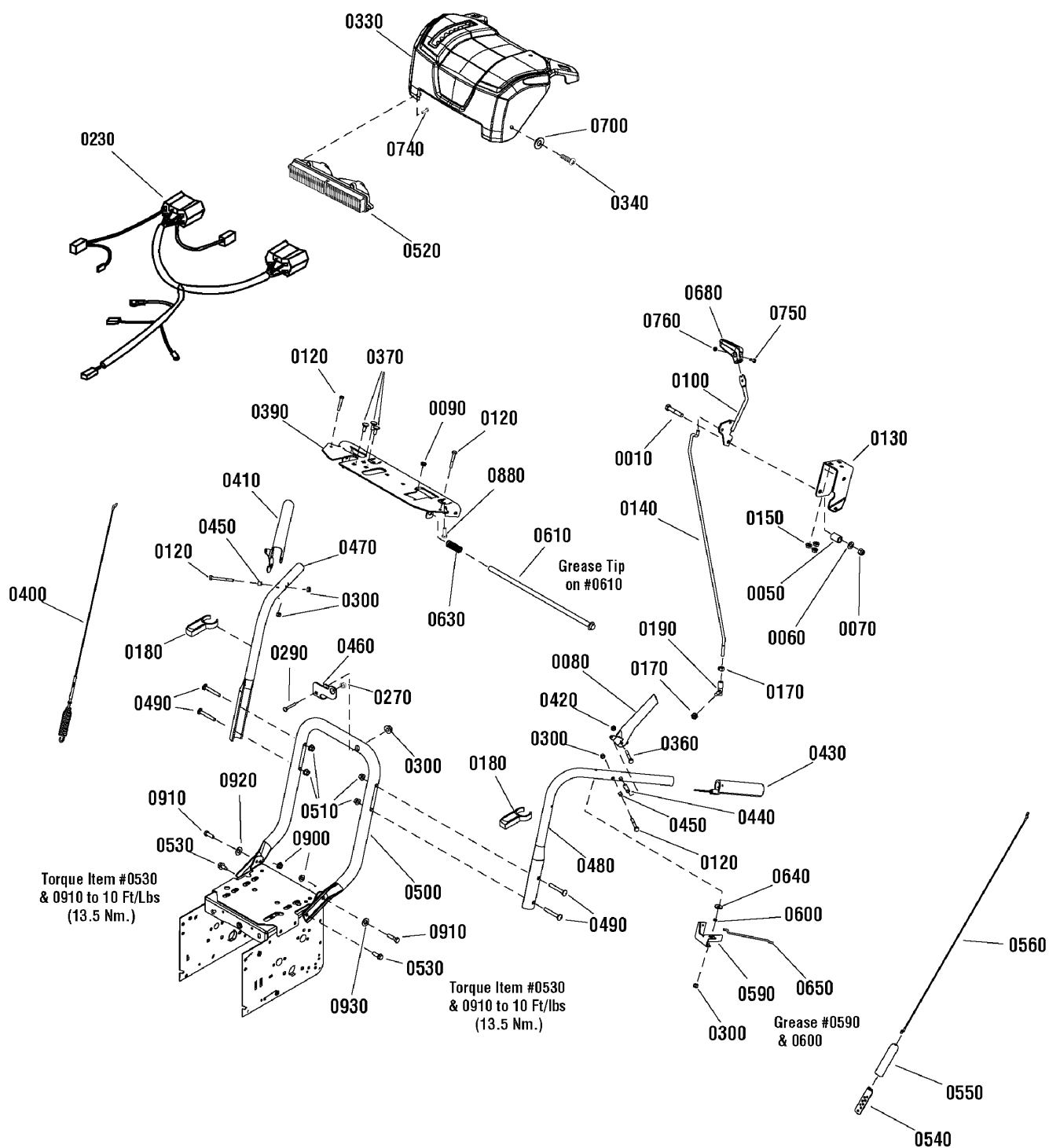
The above parts group applies to the following Mfg. Nos.:

1695866 - CM691150

Handles and Controls Group

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

2989199



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

1695866 - CM691150

Handles and 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, 1/4ID x 3/8OD x 1/8
0610	1733509SM	1	ROD & SPRING ASSEMBLY
0630	2108360SM	1	SPRING, Compression
0640	1960353SM	1	WASHER, 1/4
0650	1736360YP	1	ROD
0680	1733192SM	1	KNOB, Slot Speed
0700	1921319SM	2	WASHER, 1/4
0740	7091105YP	4	SCREW, #10-16 x 1/2
0750	1960589SM	1	SCREW, Round Head Phillips, #10-24 x 3/4
0760	7091290SM	1	NUT, Hex Lock, 10-24
0880	7091081SM	2	SCREW, 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

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Footnotes

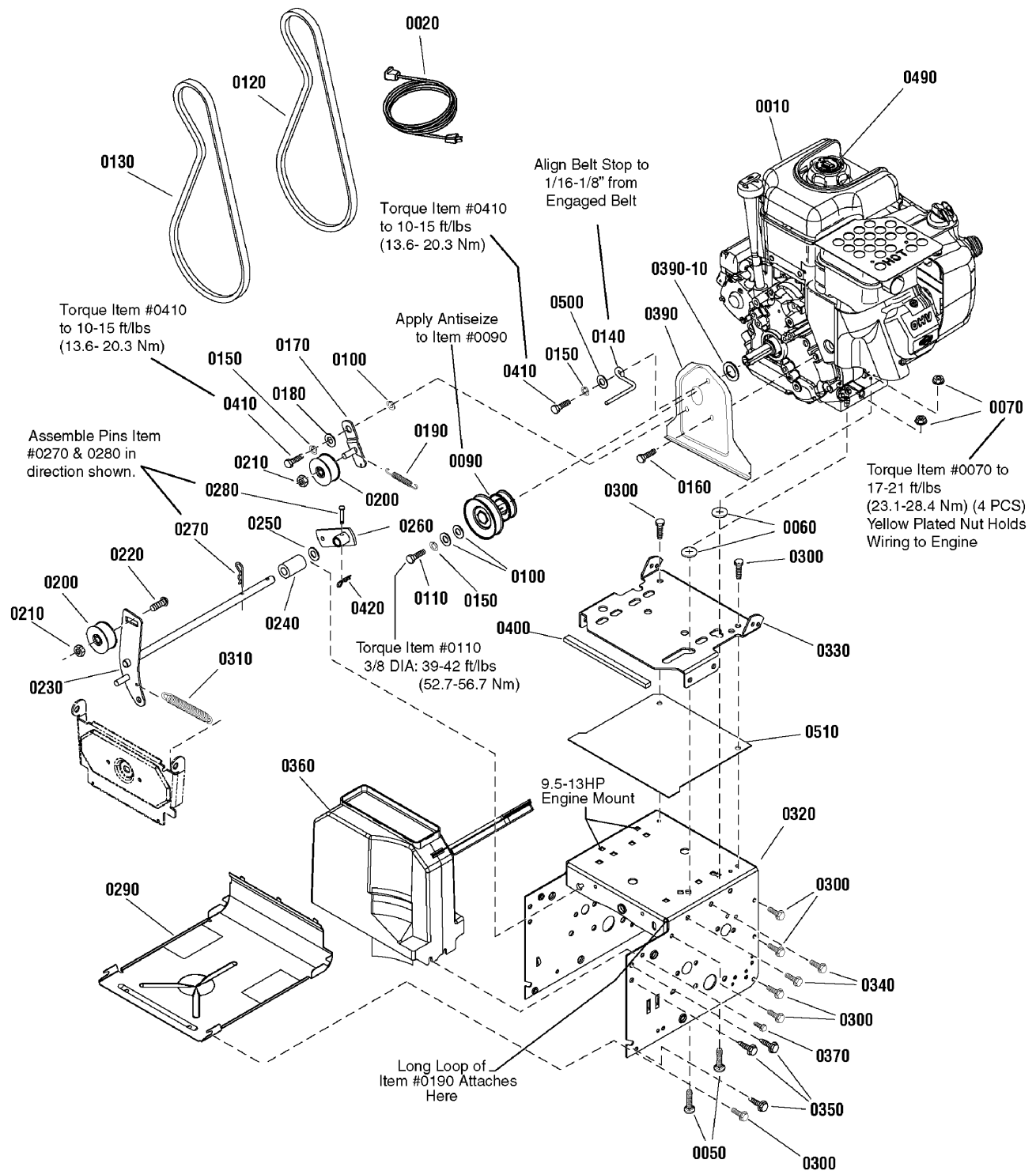
The above parts group applies to the following Mfg. Nos.:

1695866 - CM691150

Engine & Frame Group

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

2989145



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

1695866 - CM691150

Engine & Frame Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	15C114-0121-E8	1	* ENGINE, 11.5 TP Briggs & Stratton (Engine Model: 15C114-0121-E8)
0050	002X97MA	4	BOLT, Carriage, 5/16-18 x 1-1/2
0060	028X76MA	4	NUT, Push, 1/4 Dia.
0070	1739305YP	4	NUT, ESNA, 5/16-18
0090	1501109MA	1	PULLEY, Engine
0100	1919381SM	3	WASHER, 5/16
0110	1921982SM	1	CAPSCREW, Hex-Head, 5/16-24 x 1-1/4 G5
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	1917356SM	4	LOCKWASHER, Spring, 5/16
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, External Idler
0200	1502120MA	2	IDLER, Plastic Ball Bearing
0210	1960251SM	2	NUT, Hex, Centerlock, 3/8-16
0220	585781MA	1	BOLT, Carriage, 3/8-16 x 1-1/4 G5
0230	1501226YZMA	1	ASSEMBLY, Auger Idler
0240	1501200MA	1	SPACER, 1/2ID x 1OD x 1-3/4
0250	1960027SM	1	WASHER, 1/2
0260	1733451SM	1	ARM, Control
0270	0031X6MA	1	PIN, Hair 3/8 x 1-5/8
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, External, Auger, Idler
0320	1740572BNYP	1	FRAME BOX
0330	1733583BNYP	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	COVER, Belt
0370	26X306MA	2	SCREW, Self-Tapping, 1/4 x 3/4
0390	1733868ASM	1	WATER SHIELD
0390-10	1733898SM	1	SEAL, Foam
0400	1750172YP	1	STRIP, Seal
0410	910828MA	1	BOLT, Hex, 5/16-24 x 1
0420	7023590SM	1	PIN, Cotter, Self Locking, 1/4"
0490	698109	1	CAP, Fuel Tank
0500	7091528SM	1	WASHER, Flat, 3/8
0510	1750135YP	1	SEAL, Engine Plate

Footnotes

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

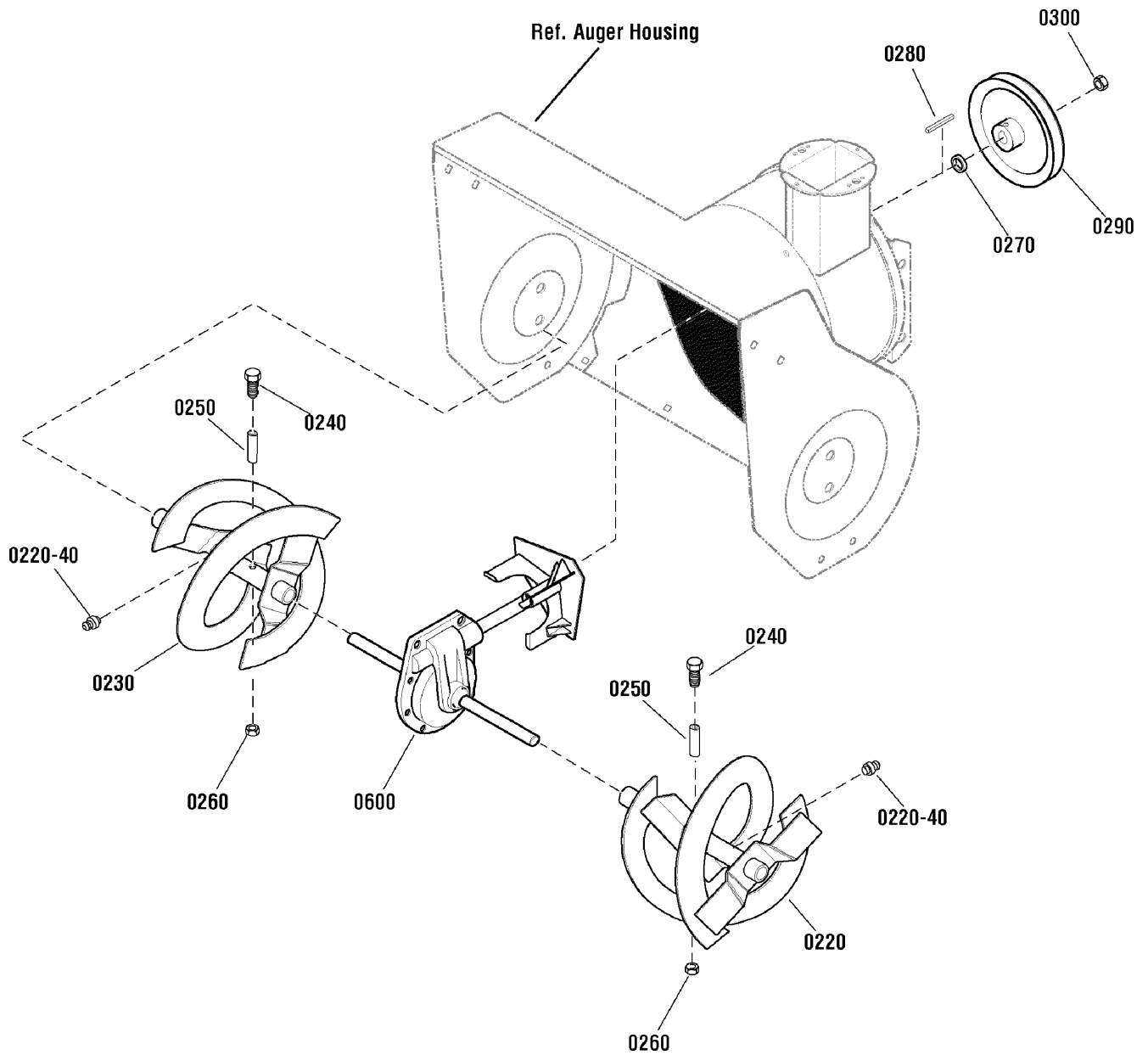
The above parts group applies to the following Mfg. Nos.:

1695866 - CM691150

Auger Drive Group

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

2988416



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

1695866 - CM691150

Auger Drive Group

REF NO	PART NO.	QTY.	DESCRIPTION
0220	1738044AYP	1	AUGER, ASSEMBLY, LH
0220-40	10104MA	2	FITTING, Zerk
0230	1738043AYP	1	AUGER, ASSEMBLY, RH
0240	9524MA	2	SCREW, 1/4-20 X 1.75
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 ASSEMBLY
0300	15X112MA	1	NUT, Hex Flange, 1/2-20
0600	1738603YP	1	GEAR CASE ASSEMBLY

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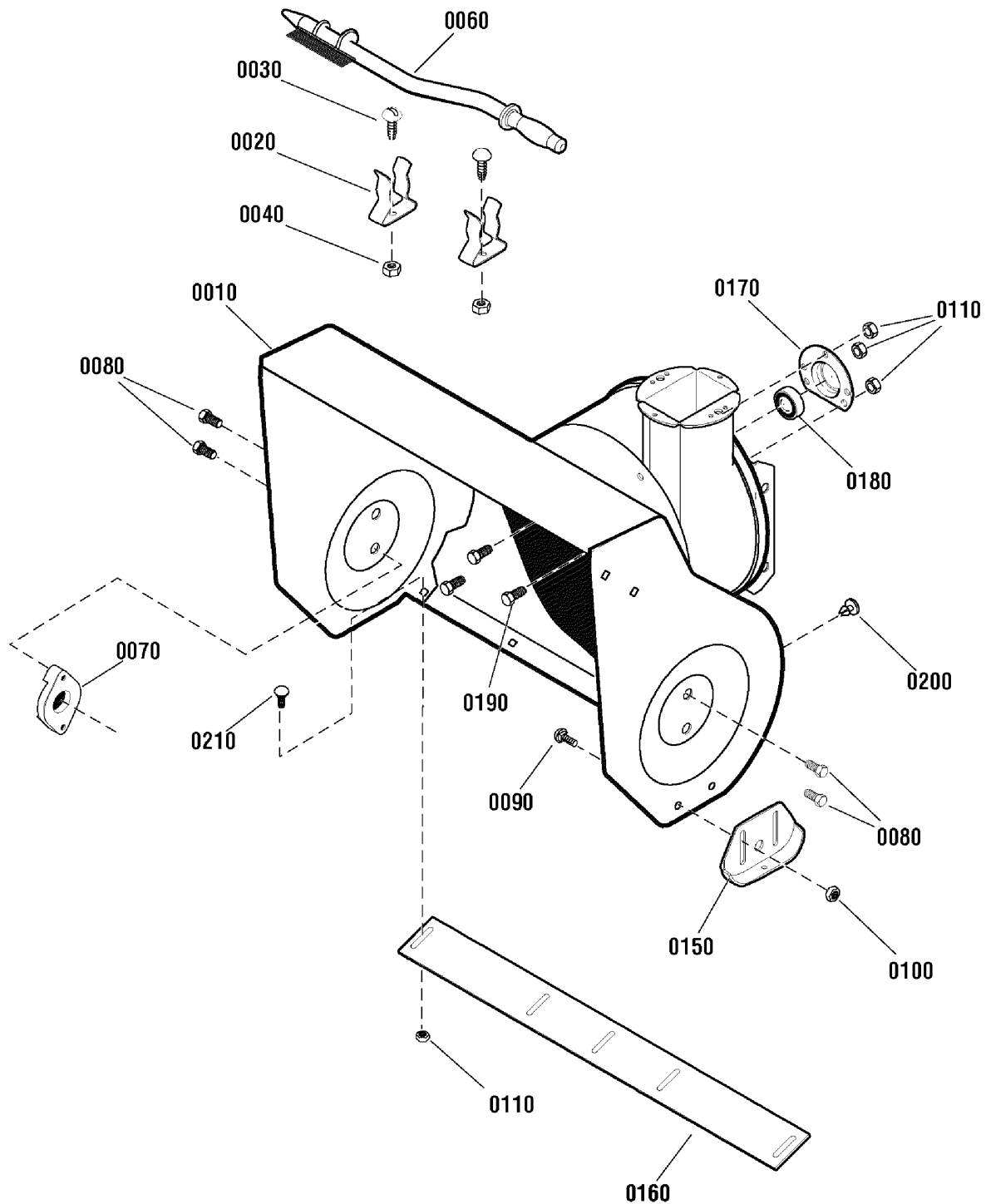
Footnotes

The above parts group applies to the following Mfg. Nos.:
1695866 - CM691150

Auger Housing Group

2989307

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



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

1695866 - CM691150

Auger Housing Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	1737926BNYP	1	AUGER HOUSING
0020	1736620YP	2	CLAMP
0030	1960569SM	2	SCREW, Truss Head Torx, #10-24 x 3/8
0040	15X146MA	2	NUT, Nylock, 10 x 24
0060	1736094YP	1	BRUSH, Cleanout
0070	53757MA	2	BEARING, Auger Shaft
0080	25X021MA	4	SCREW, 5/16-18 x 3/4
0090	7091547YP	4	BOLT, Carriage, 3/8-16 x 3/4, G5
0100	7091619SM	4	NUT, Hex Flange, 3/8-16
0110	710026MA	7	NUT, Hex Flange, Serrated Lock, 5/16-18
0150	1737986AYP	2	SKID, Height Adjust
0160	1740745AYP	1	BLADE, Scraper, 27
0170	582957YZMA	1	RETAINER, Ball Bearing
0180	1705897SM	1	BEARING, Ball
0190	001X45MA	3	CAPSCREW, Hex Head, 5/16-18 x 5/8
0200	760040MA	2	PLUG, Panel
0210	7090799SM	4	BOLT, Carriage, 5/16-18 x 5/8, G5

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Footnotes

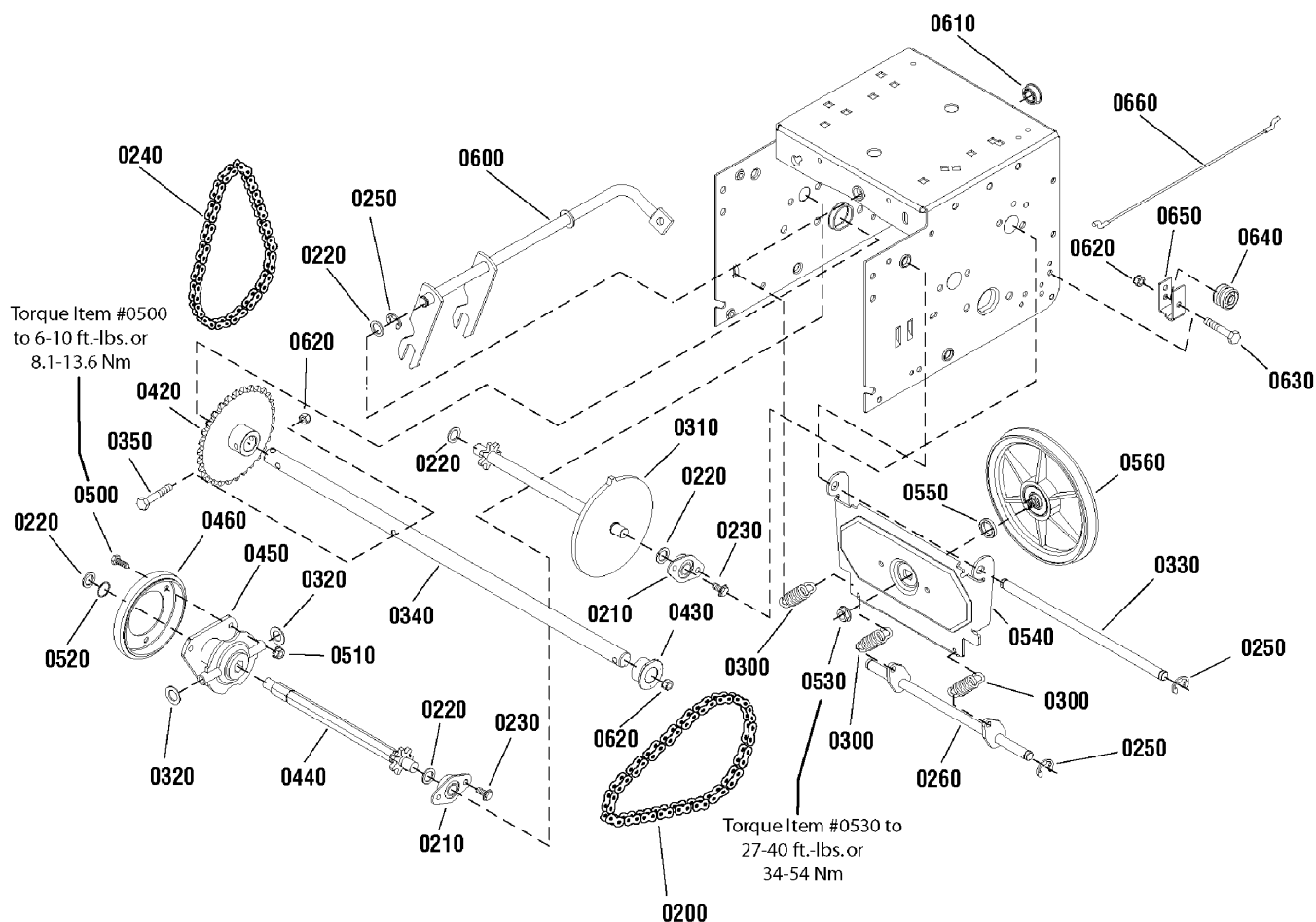
The above parts group applies to the following Mfg. Nos.:

1695866 - CM691150

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.:

1695866 - CM691150

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	1501563MA	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

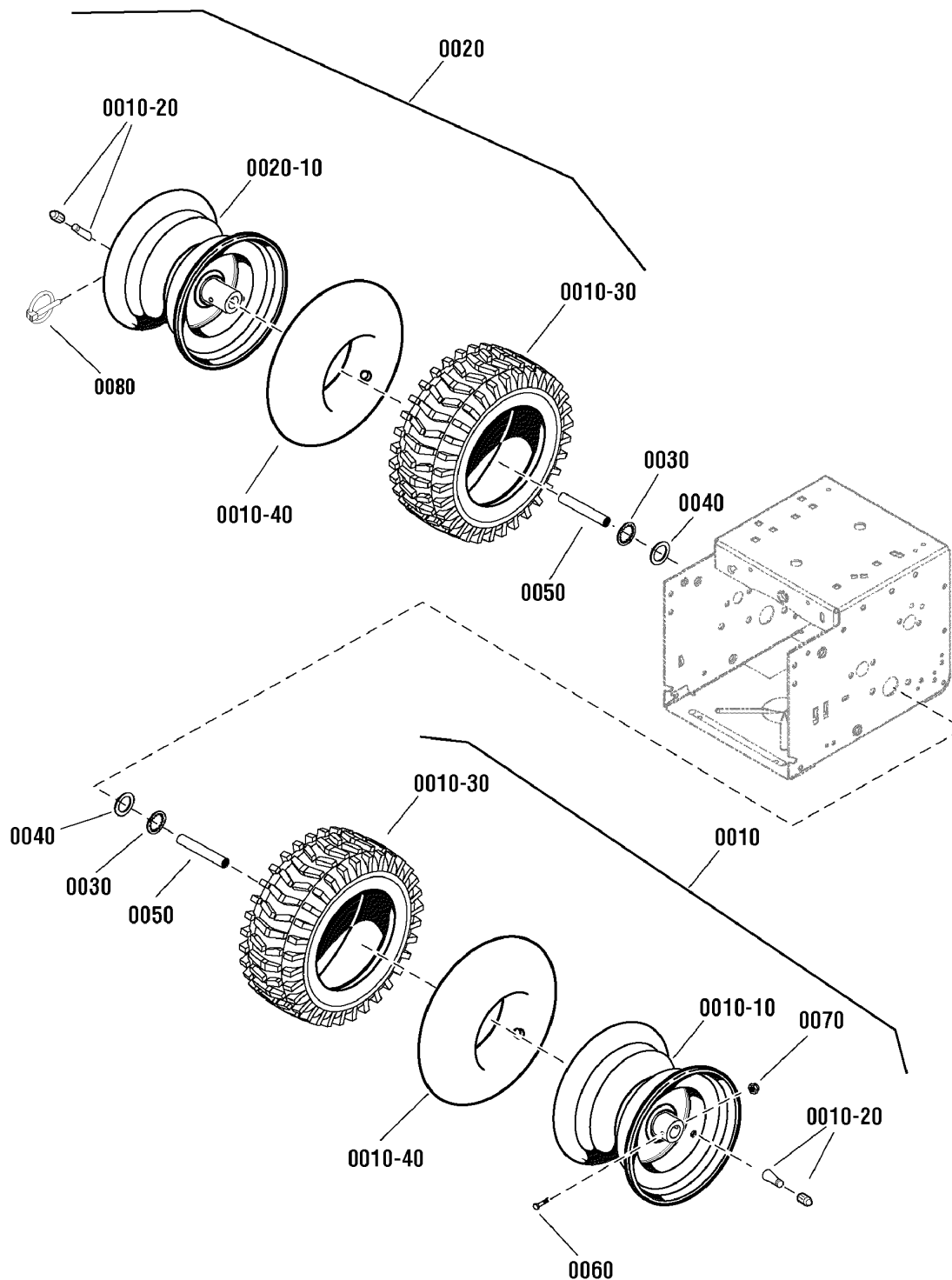
The above parts group applies to the following Mfg. Nos.:

1695866 - CM691150

Wheels and Tires Group

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

2989414



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

1695866 - CM691150

Wheels and Tires Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	1751296YP	1	TIRE & RIM, L.H. (Includes Ref. Nos. 0010-10, 0010-20 & 0010-30)
0010-10	-----	1	*RIM, 16 X 4.8, L.H.
0010-20	2172353SM	1	VALVE STEM & CAP
0010-30	1751298YP	1	TIRE, 4.80-8, X-TRAC TL
0010-40	2153038SM	1	TUBE, Tire 4.80/4.00
0020	1751297YP	1	TIRE & RIM, R.H. (Includes Ref. Nos. 0020-10, 0010-20 & 0010-30)
0020-10	-----	1	*RIM, 16 X 4.8, R.H.
0010-20	2172353SM	1	VALVE STEM & CAP
0010-30	1751298YP	1	TIRE, 4.80-8, X-TRAC TL
0010-40	2153038SM	1	TUBE, Tire 4.80/4.00
0030	1657528SM	2	RING, Retaining
0040	712120MA	2	WASHER, Flat, 3/4
0050	1501138MA	2	BUSHING, Wheel
0060	577015MA	1	BOLT, Hex, 1/4-20 x 1-3/4
0070	15X145MA	1	NUT, Hex Nylock, 1/4-20
0080	73842MA	1	PIN, Klik

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Footnotes

*Not a servicable part. Order Complete Wheel & Tire Assembly

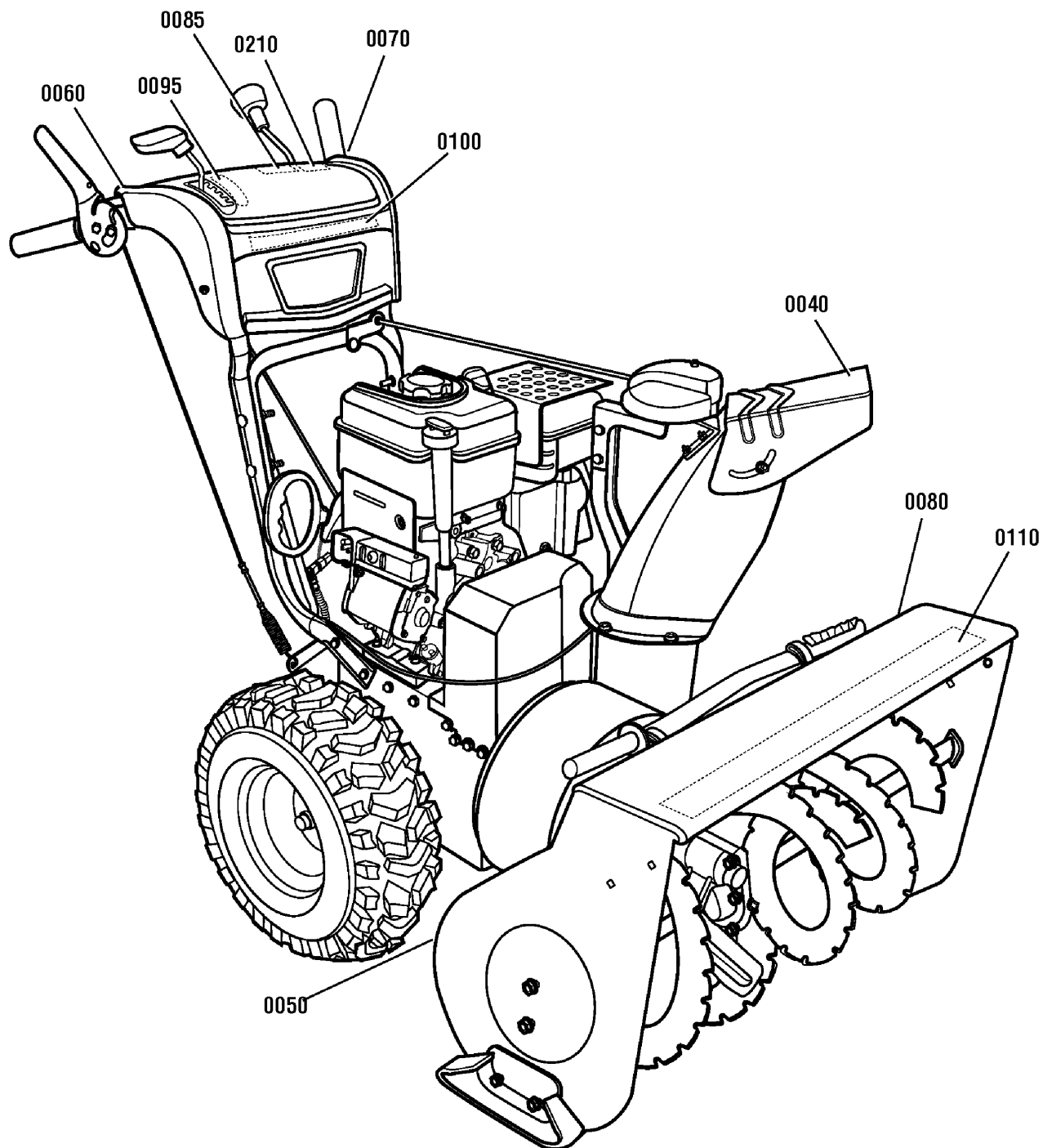
The above parts group applies to the following Mfg. Nos.:

1695866 - CM691150

Decals Group

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

2989151



The above parts group applies to the following Mfg. Nos.:
1695866 - CM691150

Decals Group

REF NO	PART NO.	QTY.	DESCRIPTION
0040	1727207SM	1	DECAL, Chute Warning
0050	1737867YP	1	DECAL, Danger, Auger Icons
0060	1737869YP	1	DECAL, Auger Control Symbols
0070	1737870YP	1	DECAL, Traction Control
0080	304427MA	1	DECAL, Face Head Phones
0085	1738344YP	1	DECAL, Free Hand Operation Panel
0095	1738349YP	1	DECAL, Speed Control
0100	1750433YP	1	DECAL, Dash
0110	1750434YP	1	DECAL, Auger Housing
0210	1738348YP	1	DECAL, Crank, Chute Rotation

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Footnotes

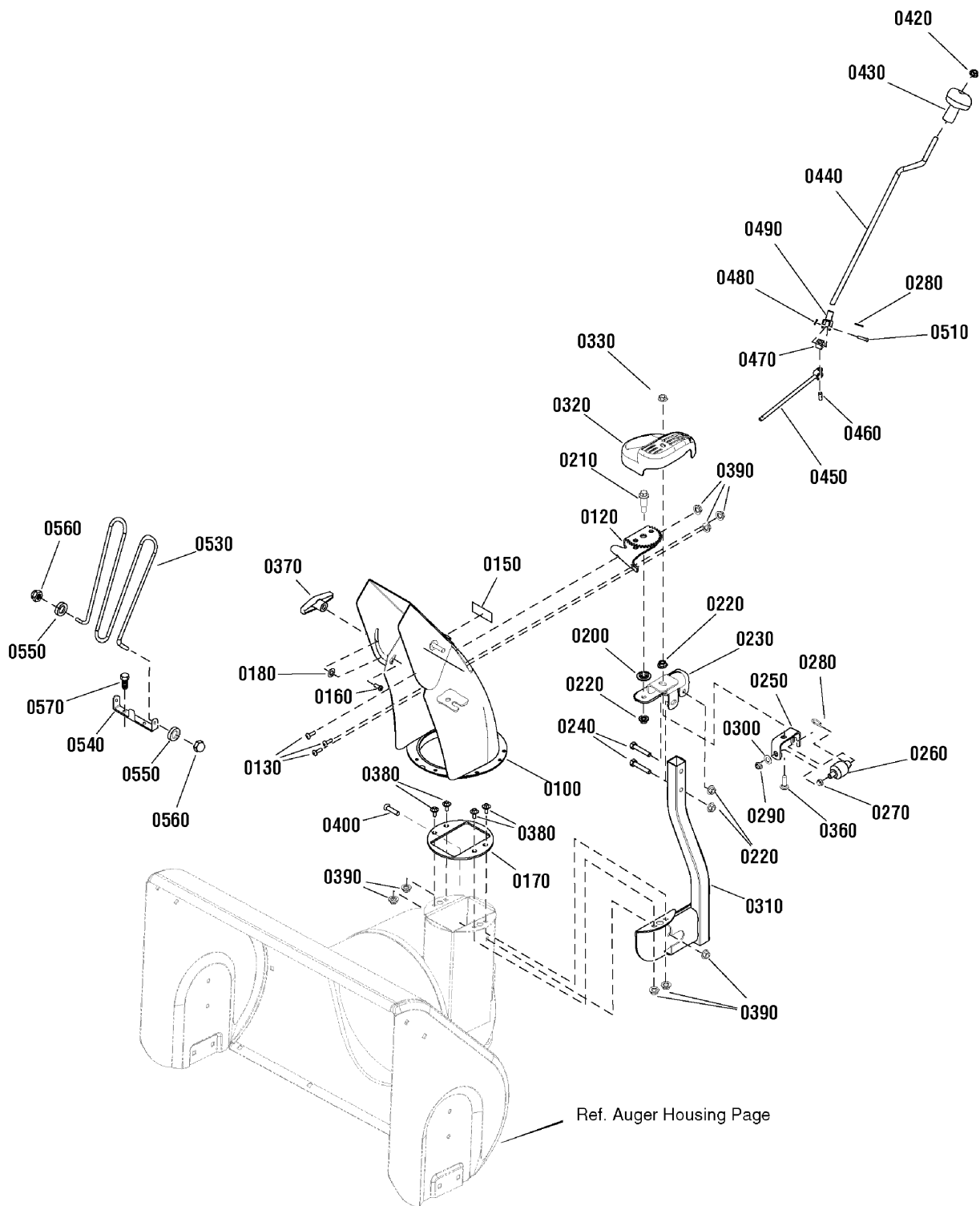
The above parts group applies to the following Mfg. Nos.:

1695866 - CM691150

Discharge Chute Group

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

2988572



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

1695866 - CM691150

Discharge Chute Group

REF NO	PART NO.	QTY.	DESCRIPTION
0100	1736379AYP	1	CHUTE ASSEMBLY
0120	1736038YP	1	GEAR / CHUTE SUPPORT
0130	1960715SM	3	SCREW, Truss Head Torx, 1/4-20 x 3/4
0150	1733601SM	1	DECAL, Hinge
0160	002X97MA	1	BOLT, Carriage, 5/16-18 x 1-1/2
0170	1735767YP	1	GUIDE, Chute Ring
0180	2860210SM	1	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, Nylon, 3/8ID x 1/2OD x 1/4"
0280	1501293MA	1	PIN, Hair
0290	1960762SM	1	NUT, Hex Lock, Jam ESNA Light, 3/8-24
0300	1734542SM	1	WASHER, Cup, 3/8
0310	1736195AYP	1	CHUTE SUPPORT
0320	1734442SM	1	COVER, Gear
0330	1935048SM	1	NUT, Hex Flange, Two Way Lock, 5/16-18
0360	1931335SM	1	BOLT, Carriage, 5/16-18 x 1 G5
0370	1501260MA	1	KNOB, Wing, With Nut, 5/16-18
0380	691005	4	SCREW, Hex Washer Head
0390	5025391SM	8	NUT, Hex Nylock Flange, 1/4-20
0400	02X101MA	1	BOLT, Carriage, 1/4-20 x 3/4
0420	1960093SM	1	NUT, Push Pal
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 & TUBE, Chute
0510	578309MA	2	PIN, Clevis
0530	1733475SM	1	GUARD, Chute
0540	1737683AYP	1	BRACKET, Chute Guard
0550	1738174YP	2	GROMMET, Chute Guard Bracket
0560	1960140SM	2	PUSHNUT
0570	1925003SM	2	SCREW, Hex Washer Head, Taptite, 1/4-20 x 1/2

Footnotes

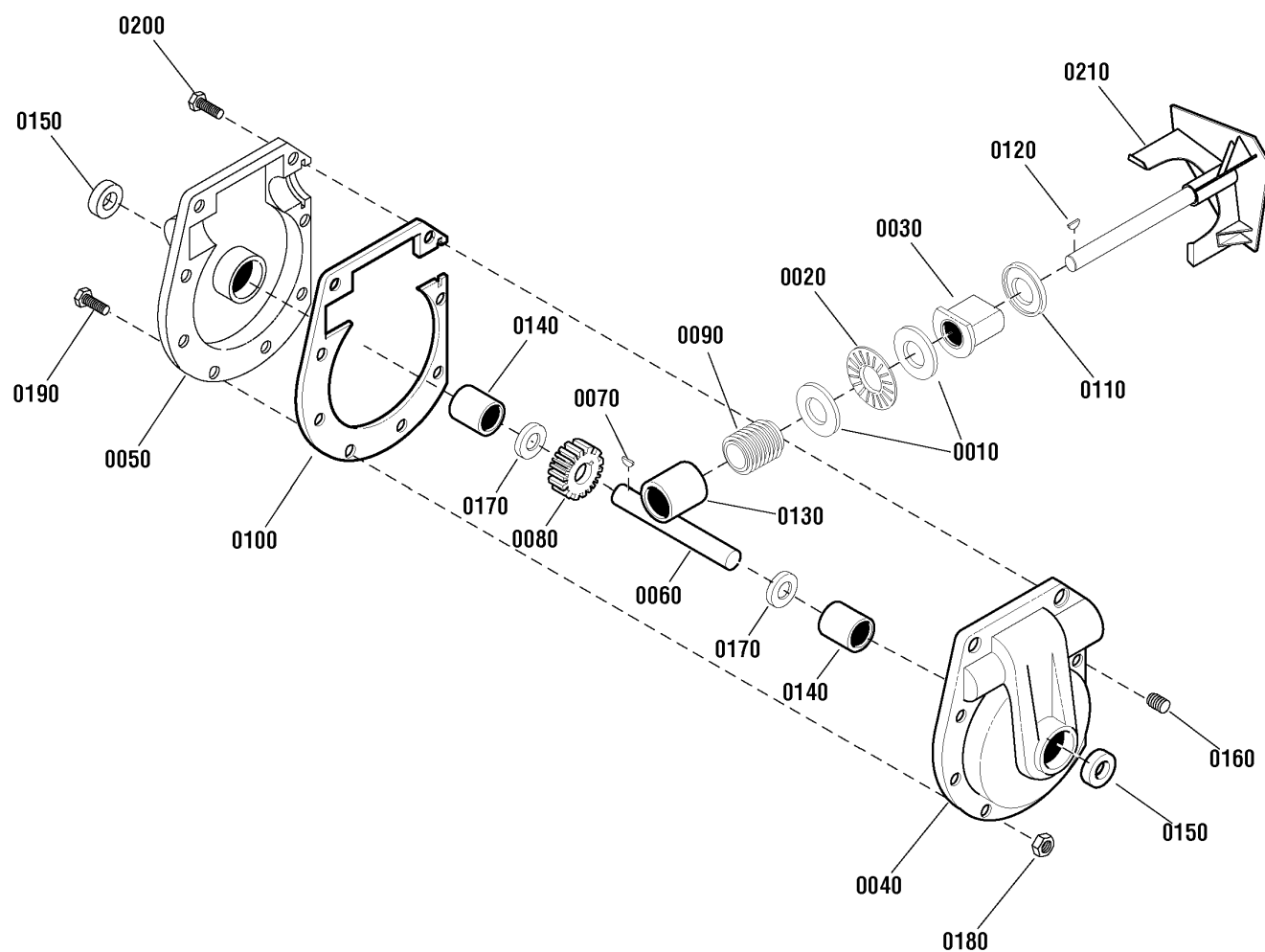
The above parts group applies to the following Mfg. Nos.:

1695866 - CM691150

Gear Case Assembly

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

1736803



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

1695866 - CM691150

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	760529MA	1	SHAFT, Auger Out, 27
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

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Footnotes

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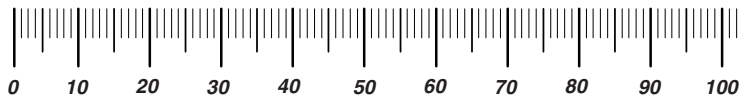
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Hardware Identification & Torque Specifications

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

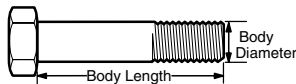
The guides and ruler furnished below are designed to help you select the appropriate hardware.



Nut, M8

Thread
Diameter (mm)
Inside
Diameter (in) Threads
per inch

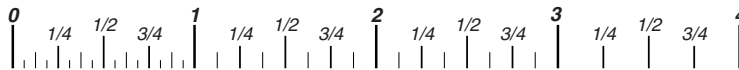
Nut, 1/2-16



Screw, M8- 1.25 x 25

Thread
Diameter (mm) Distance between
threads (mm) Body
Length (mm)
Body
Diameter Threads
per inch Body
Length (in)

Screw, 1/2- 16 x 2



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



Washer

Carriage Bolt



Lockwasher



Hex Nut

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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