Parts Manual

Mfg. No: 1696666-00

Brute, 9.0 Gross TP 22" Single Stage Snowthrower (2016)

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Auger Drive Group

Note: Unless noted otherwise, use the standard torque specifications

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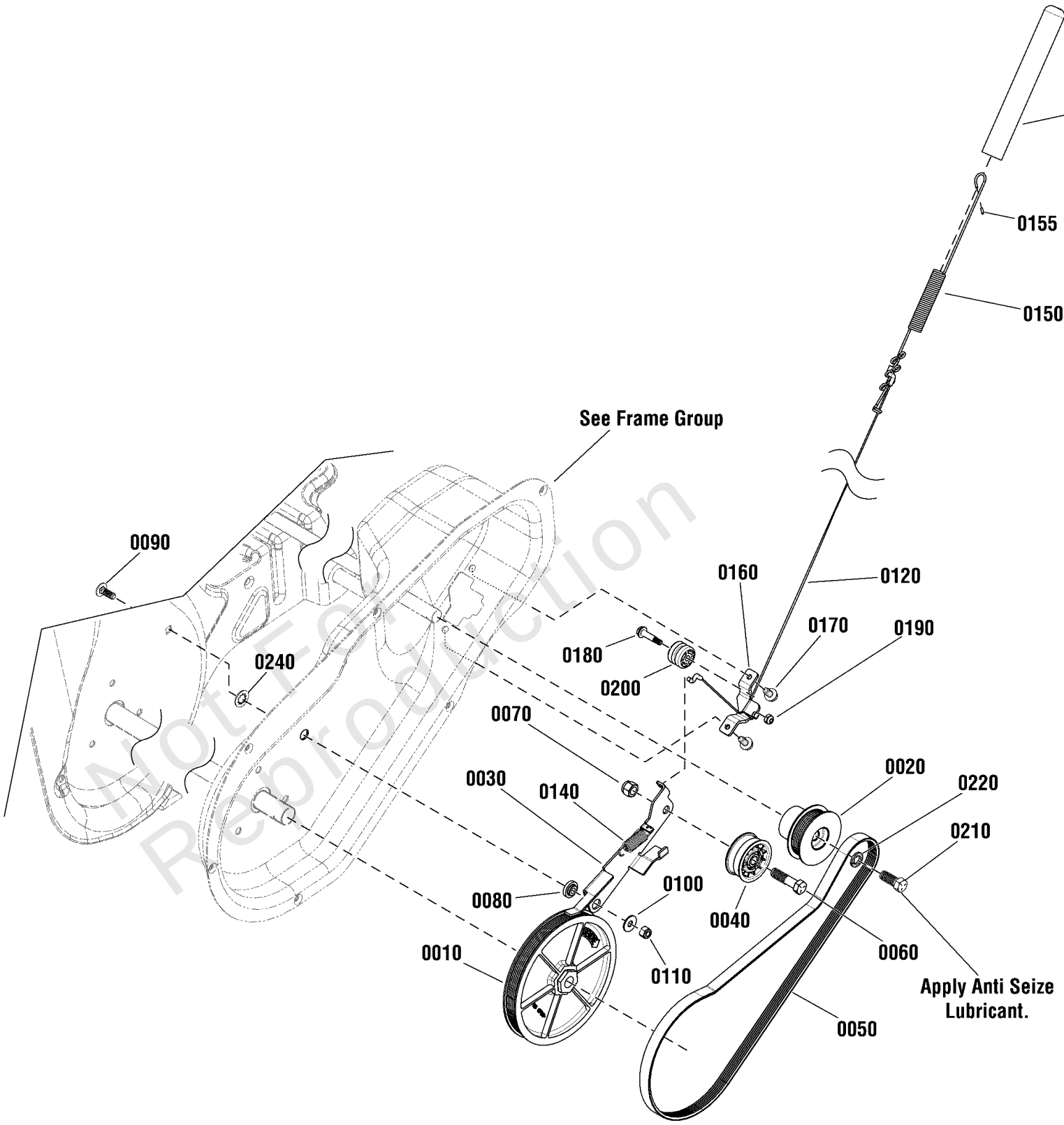

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Auger Drive Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1739730YP	1	PULLEY, Driven
0020	1739179YP	1	PULLEY, Driver
0030	1739526YP	1	ARM, Idler, Drive
0040	1502120MA	1	IDLER, Plastic Ball Bearing
0050	1739338YP	1	BELT, Drive
0060	01X111MA	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
0070	7091299SM	1	NUT, Nylock, 3/8
0080	1739709YP	1	SPACER, Idler Arm
0090	1931318SM	1	BOLT, Carriage, Short Neck, 1/4-20 x 7/8 G5
0100	7091253YP	1	WASHER, Flat, .281 X 3/4 x 1/2
0110	7091603SM	1	NUT, Nylock, 1/4
0120	1502113MA	1	CABLE, Handle
0130	1739935YP	1	BOOT, Clutch Spring
0140	1750226YP	1	SPRING, Idler
0150	1750315YP	1	SPRING, Extension
0155	704137	1	COVER, Spring End
0160	1750329YP	1	BRACKET, Cable Guide
0170	1750447YP	2	SCREW, Hex Washer Head, Trilob, 1/4-20 x 1/2
0180	1750594YP	1	CAPSCREW, Hex Shoulder, 1/4 x 3/4
0190	7090376YP	1	NUT, Locking, #10
0200	579860MA	1	SPOOL CABLE, Auger Control
0210	001X20MA	1	BOLT,HEX.37 24X1.00 Z
0220	22237GS	1	WASHER, Locking, 3/8
0240	1960518SM	1	NUT, Push, 1/4

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Auger Group

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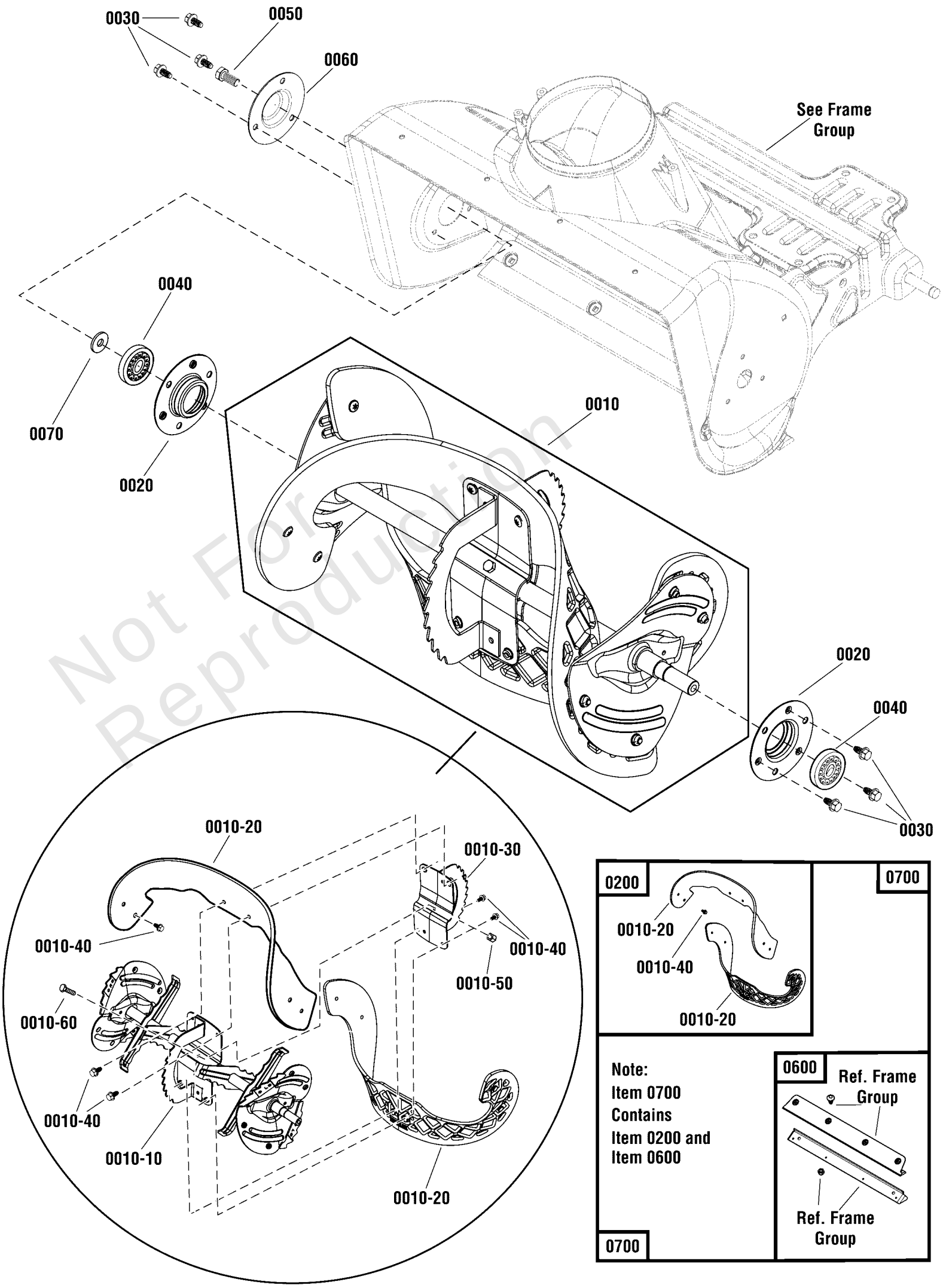

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Auger Group

REF NO	PART NO	QTY	DESCRIPTION
0010	-----	1	AUGER ASSEMBLY, Complete -(Incl. Ref. Nos. 0010-10, 0010-20, 0010-30, 0010-40, 0010-50 & 0010-60)
0010-10	-----	1	* AUGER SHAFT ASSEMBLY
0010-20	-----	2	** FLIGHT, Auger -(Included with Ref. No. 0200)
0010-30	-----	2	* PLATE, Auger, Center
0010-40	7091246YP	12	SCREW, 1/4-20 x 3/4, Pan Head Torx -(Included with Ref. No. 0200)
0010-50	7091603SM	1	NUT, Nylock, 1/4-20
0010-60	703234	1	CAPSCREW, 1/4-20X1.5
0020	1739228YP	2	RETAINER, Bearing
0030	1750447YP	6	SCREW, Hex Washer Head, Trilob, 1/4-20 x 1/2
0040	1705897SM	2	BEARING, BALL 11/16X1
0050	704287	1	CAPSCREW, 5/16-18X.75
0060	1739229AYP	1	CAP, BEARING
0070	7900022YP	1	FW, YZ
0200	1687804	1	KIT, AUGER FLIGHT -(Incl. Ref. Nos. 0030 & 0010-40)
0600	1687805	1	KIT, Scraper Bar -(Reference Frame group)
0700	1687806	1	KIT, Scraper Bar & Flight -(Incl. Ref. Nos. 0200 & 0600)

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Footnotes:

Note: ** Not a servicable part, order Auger Flight Kit.
Note: * Not a servicable part, order complete Auger Assembly.

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Chute Group - Manual

Note: Unless noted otherwise, use the standard torque specifications

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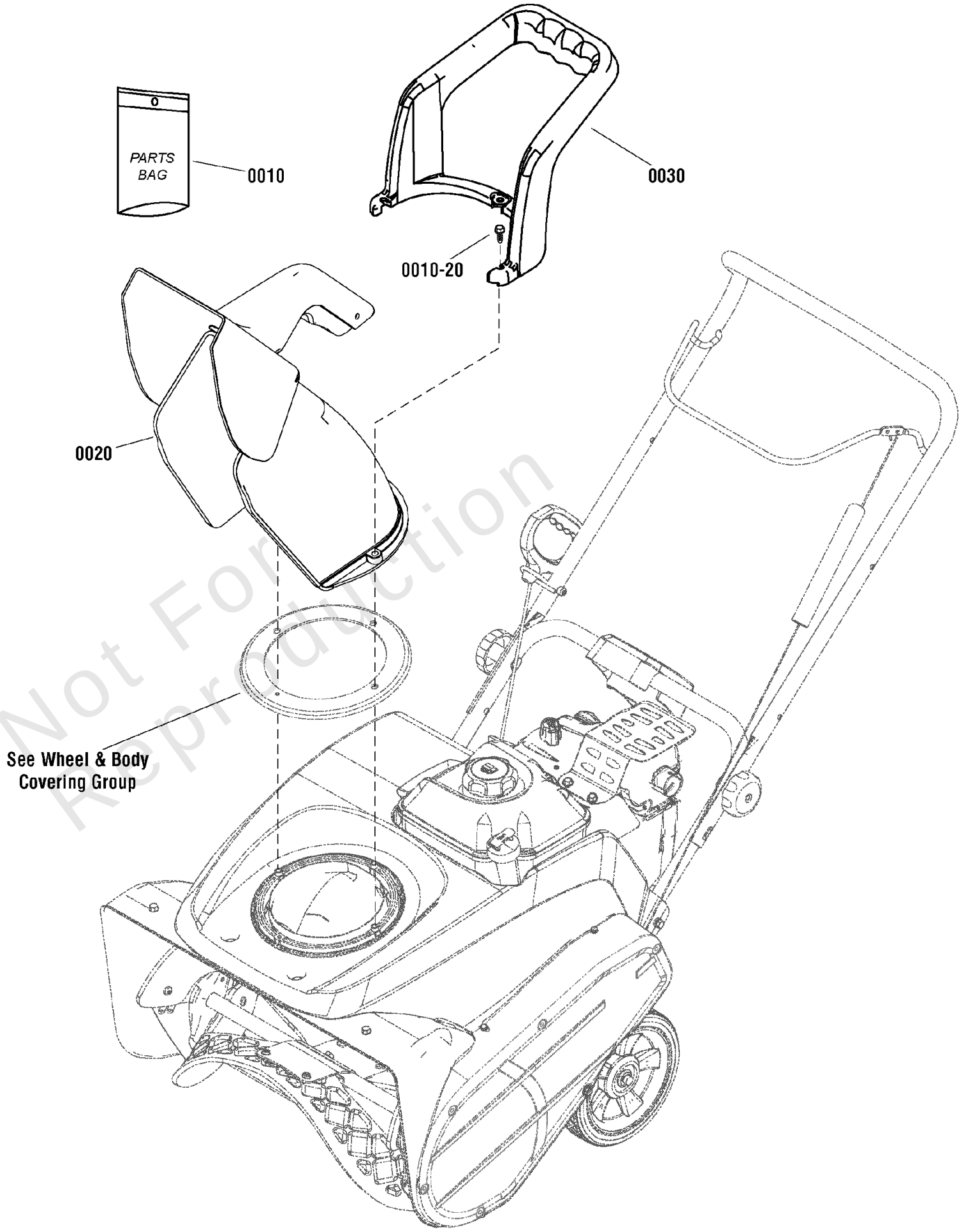

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Chute Group - Manual

REF NO	PART NO	QTY	DESCRIPTION
0010	1751171YP	1	PARTS BAG -(Includes Ref. 0010-10)
0010-20	1751399YP	3	BOLT, Hex Washer Head, 1/4-15 x 1
0020	1739522YP	1	CHUTE ASSEMBLY
0030	1739692YP	1	HANDLE, Chute Rotation

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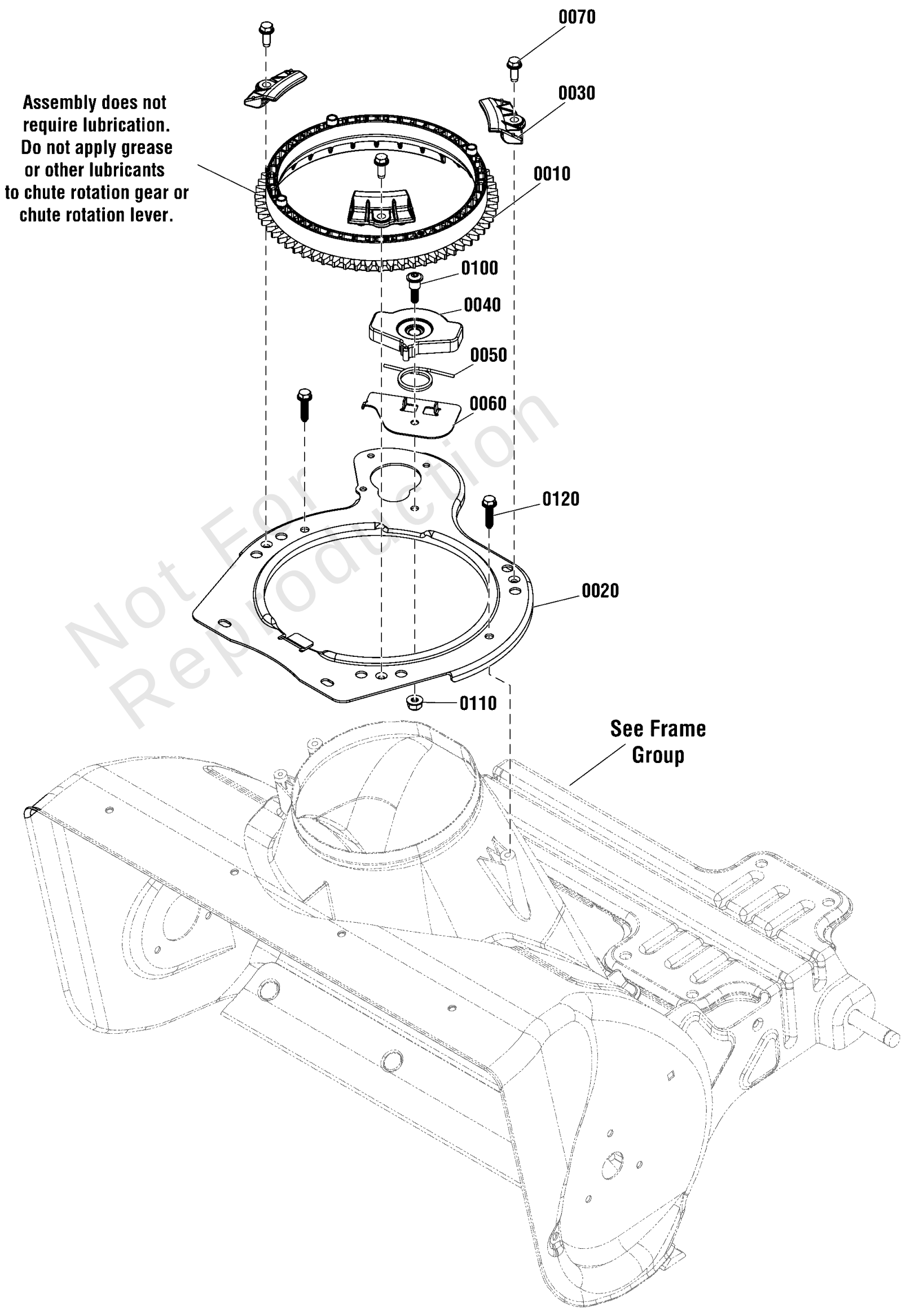

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Chute Rotation Group - Manual

REF NO	PART NO	QTY	DESCRIPTION
0010	706509	1	GEAR, Chute Rotation
0020	708695	1	PLATE, Chute Rotation
0030	-----	3	RETAINER, Chute
0040	708712	1	LEVER, Chute Rotation
0050	708713	1	SPRING
0060	708714	1	BASE PLATE
0070	703054	3	SCREW, 1/4-20X0.625
0100	706514	1	SCREW, Shoulder Button Washer Head, 1/4-20 x 1.00
0110	703463	1	NUT, GR5,1/4-20
0120	706516	2	SCREW, High-Low, 1/4-15 x 1.00

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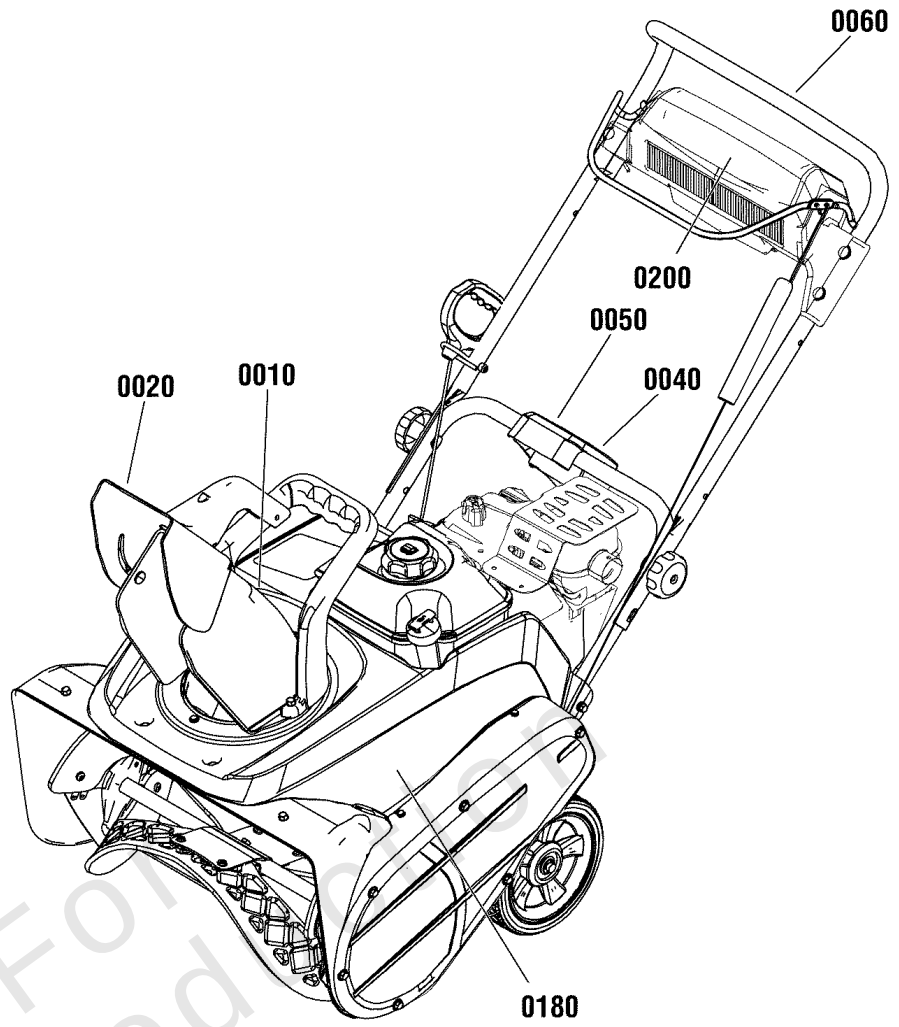
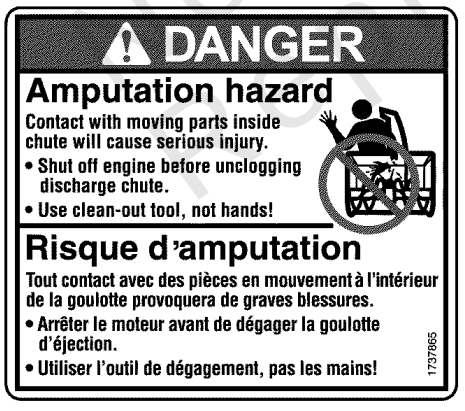
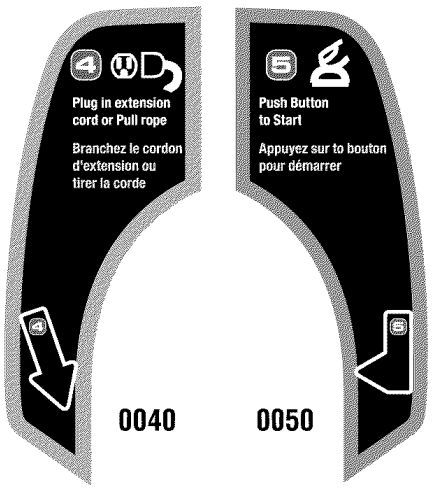
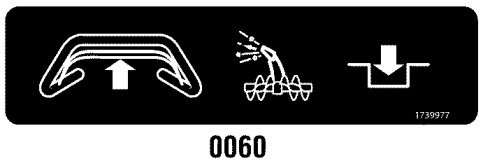




0020



0040 0050



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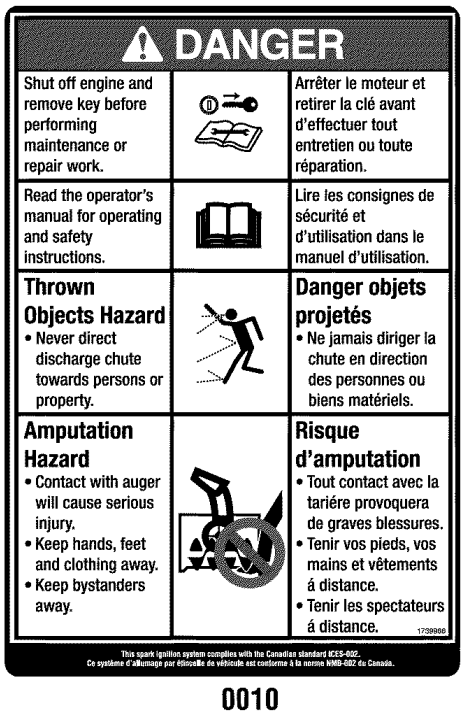

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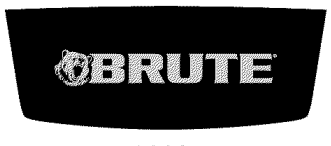

0200

0180

0190

0160

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Decals Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1739966YP	1	DECAL, Chute, FR-EN
0020	1737865YP	1	DECAL, Danger, Chute, FR-ENG
0040	1750734YP	1	DECAL, 4, START, FR-EN
0050	1750736YP	1	DECAL, 5, START, FR-EN
0060	1739977YP	1	DECAL, Bail Engagement
0160	1754247YP	1	DECAL, Assembled in USA
0180	706858	1	DECAL, BRUTE LOGO
0190	706859	1	DECAL, BRUTE, 22/900
0200	706860	1	DECAL, BRUTE, PANEL

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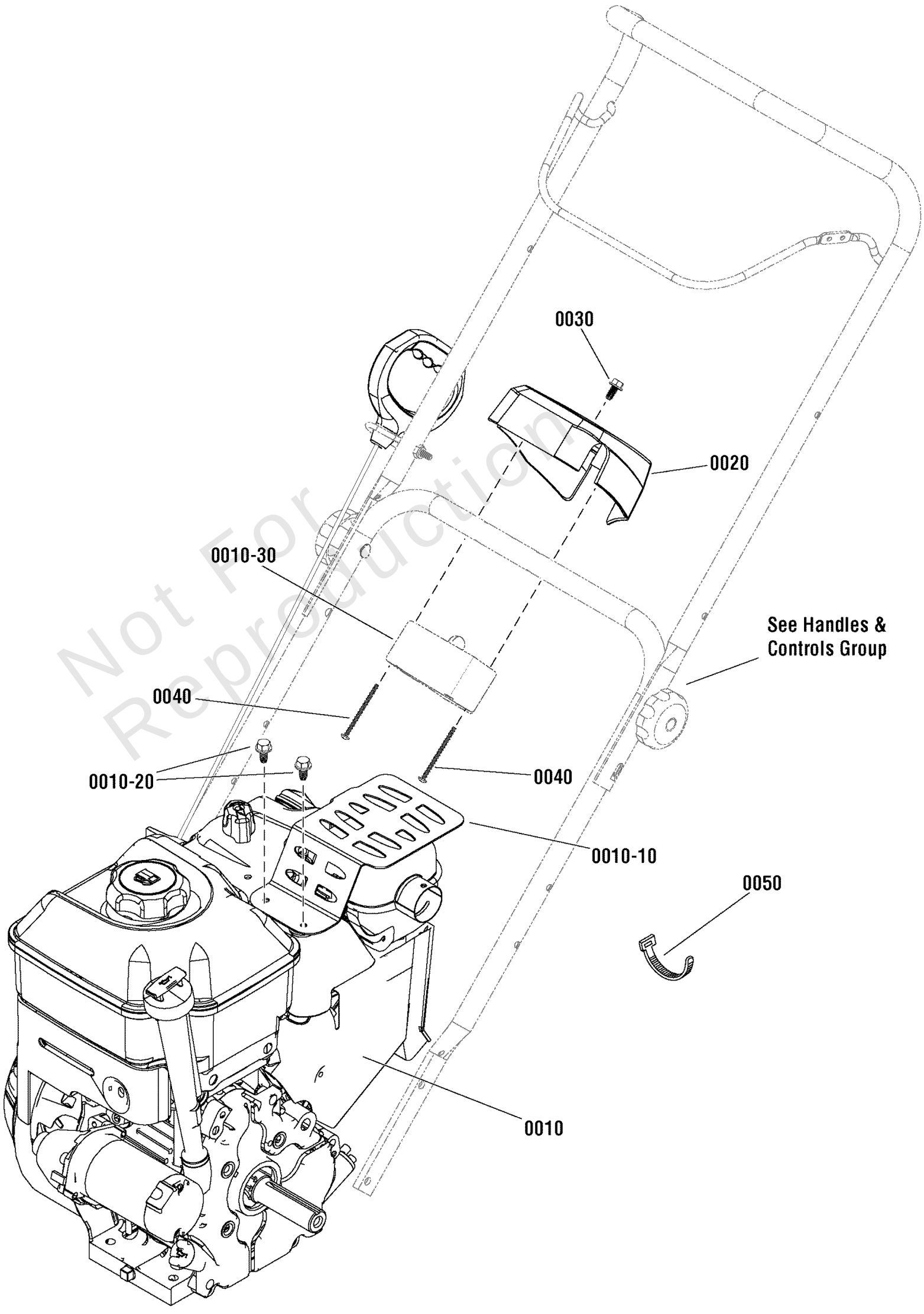

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Engine Group

REF NO	PART NO	QTY	DESCRIPTION
0010	12D107-0162-F8	1	* ENGINE, 9TP Briggs & Stratton, North America -(Engine Model: 12D107-0162-F8)
0010-10	797003	1	GUARD, Muffler, Plate
0010-20	699854	3	SCREW, Muffler Guard, Hex Washer Head
0010-30	-----	1	** STARTER, 110V
0020	1750032YP	1	HOUSING, Starter, 110V
0030	1750447YP	1	SCREW, Hex Washer Head, Trilob, 1/4-20 x 1/2
0040	1750593YP	2	SCREW, Pan Head Phillips, Plast., 8-16 x 2-1/8
0050	032618MA	4	STRAP, Tie
--	6219MA	1	CORD, Electric, 10FT. 110V -(Not Illustrated)

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Footnotes:

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

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.

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Frame Group

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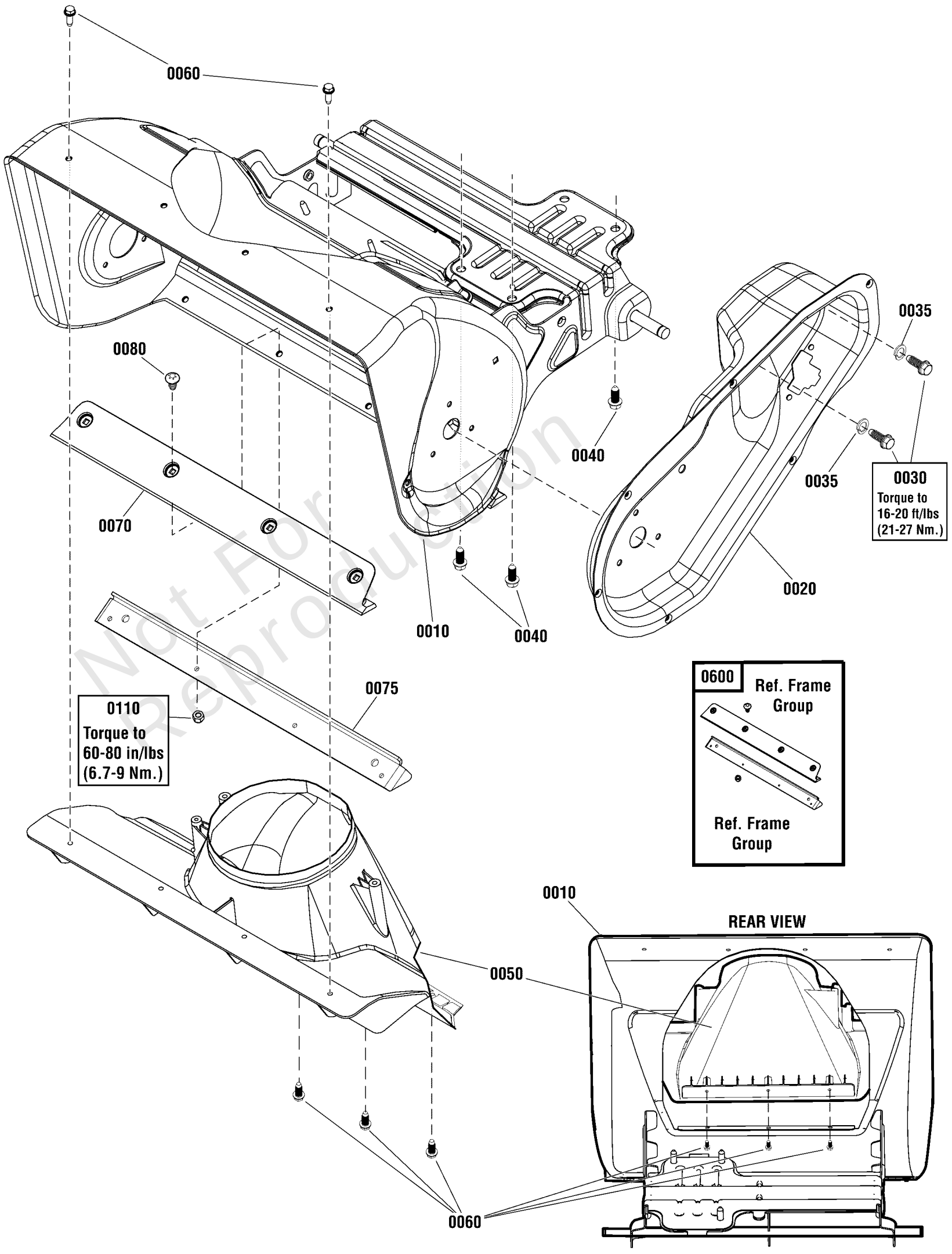

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Frame Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1756280AYP	1	FRAME ASSEMBLY
0020	1739100BMYP	1	HOUSING, Drive
0030	1752876YP	2	CAPSCREW, Hex Head, 5/16-24 x 5/8
0035	1917356SM	2	WASHER, Lock Helical Spring
0040	2828635SM	3	SCREW-HEX WSHR HD TAP
0050	1739555YP	1	CHIMNEY -Used without Service Kit 1687864, Refer to Chute Rotation Group
0050	707849	1	CHIMNEY -Used with Service Kit 1687864, Refer to Chute Rotation Group
0060	1750444YP	5	SCREW, Hi-Low, 1/4-15 x 3/4
0070	-----	1	SCRAPER BAR -(Included with Ref. No. 0600)
0075	1752660AYP	1	SUPPORT, Scraper Blade -(Included with Ref. No. 0600)
0080	5025299X5YP	4	SCREW, 1/4-20 X 5/8 -(Included with Ref. No. 0600)
0110	1752935YP	4	NUT, 1/4-20, Nylon Hex, CZ -(Included with Ref. No. 0600)
0600	1687805	1	KIT, Scraper Bar -(Includes Ref. Nos. 0070, 0075, 0080, 0110, Auger Flights & Hardware)

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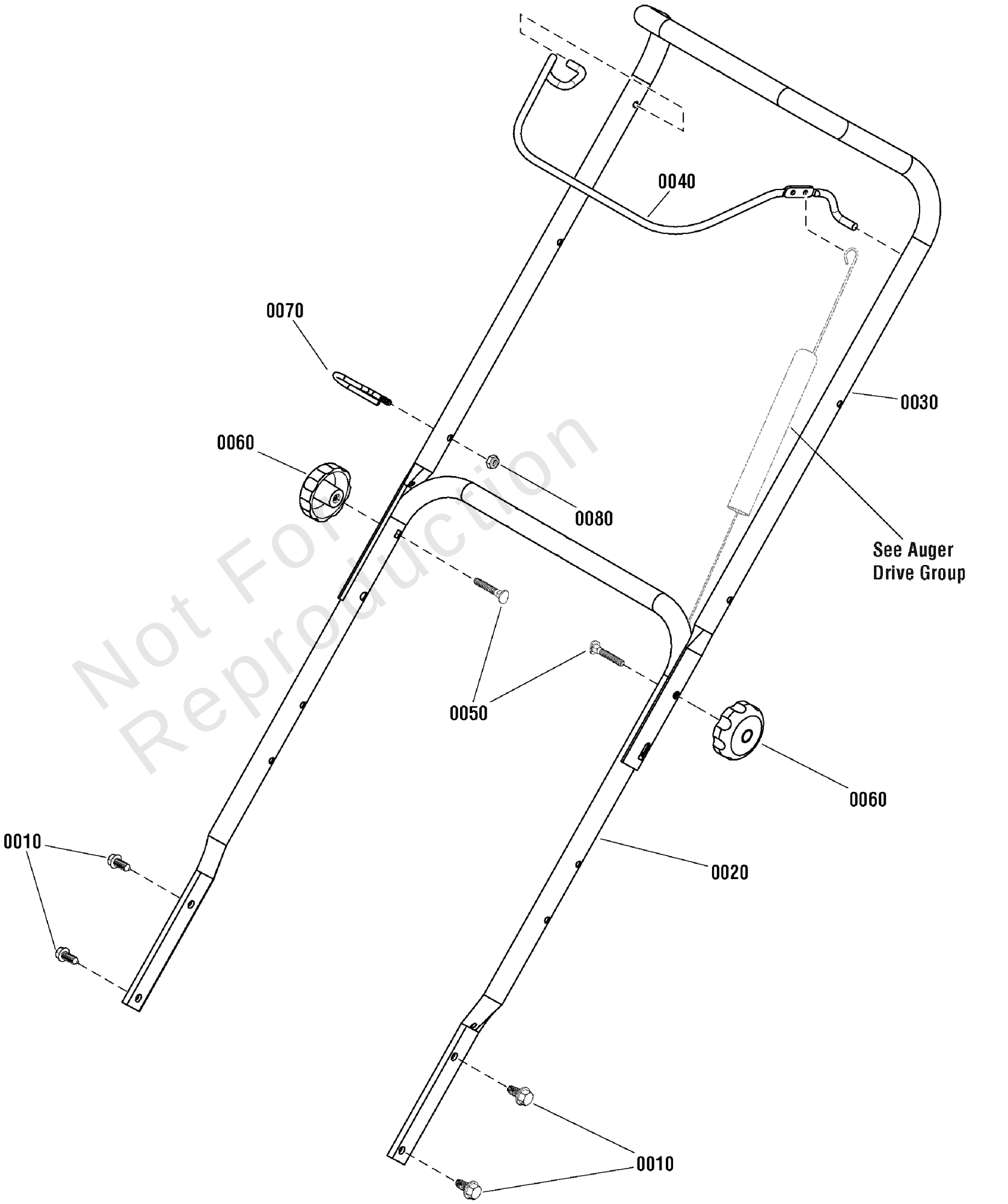

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Handles & Controls Group - Manual

REF NO	PART NO	QTY	DESCRIPTION
0010	1930601SM	4	SCREW, Hex Washer Head, Taptite, 5/16-18 x 5/8
0020	1739362AYP	1	HANDLEBAR, Lower
0030	1739363AYP	1	HANDLEBAR, Upper
0040	1739361BNYP	1	BAIL, Engine Stop
0050	7091189YP	2	BOLT, Carriage, Curved Head, 5/16 x 2, G2
0060	1101453MA	2	KNOB, Handle, 5/16-18
0070	1739389YP	1	GUIDE, Rope
0080	7091603SM	1	NUT, 1/4

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Light Panel Group

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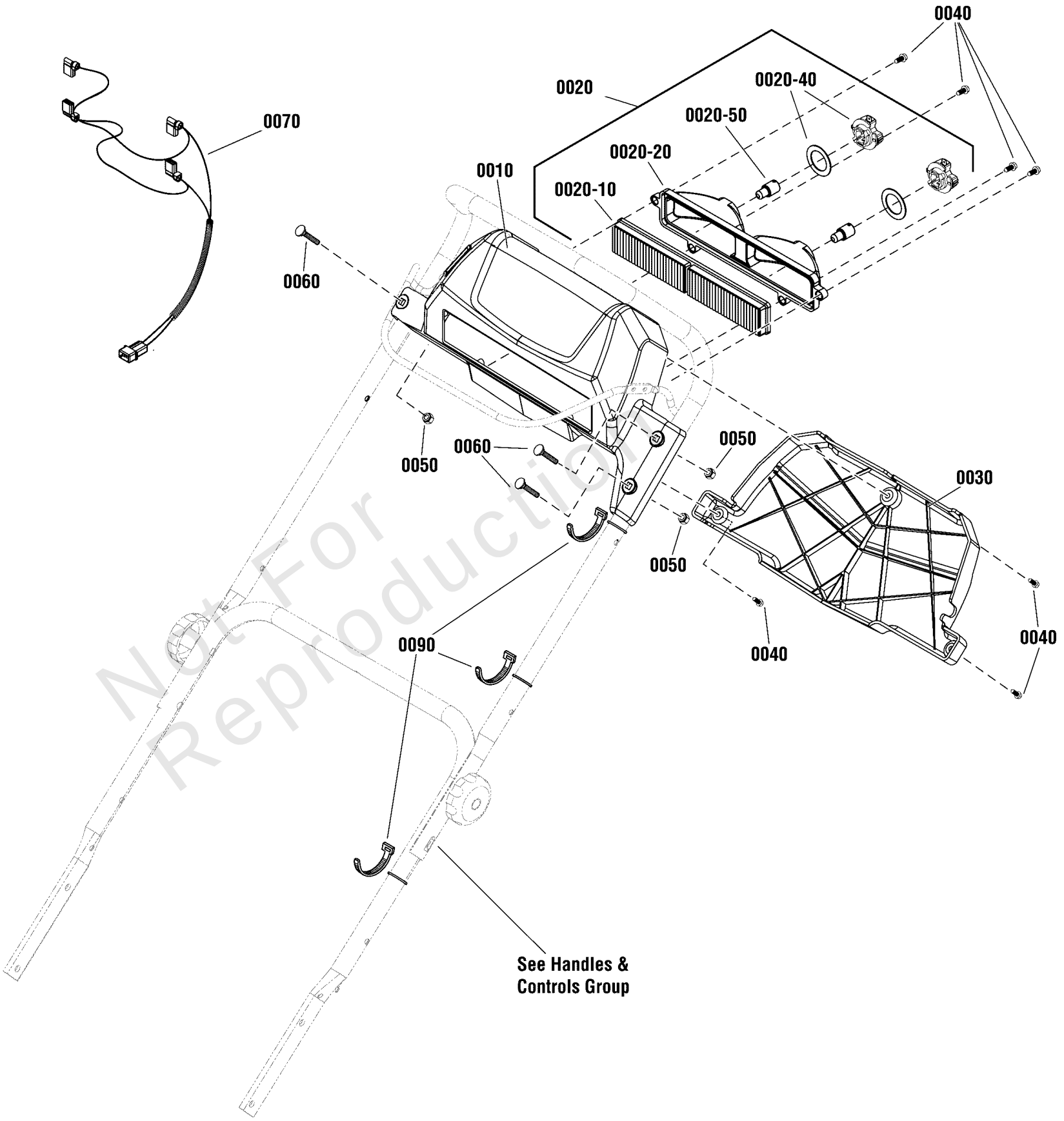

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Light Panel Group

REF NO	PART NO	QTY	DESCRIPTION
0010	706857	1	PANEL
0020	1736176YP	1	HEADLIGHT ASSEMBLY -(Includes Ref. Nos. 0020-10, 0020-20, 0020-40 & 0020-50)
0020-10	1736177YP	1	LENS, Twin Light
0020-20	1736178YP	1	DEFLECTOR
0020-40	1736180YP	2	SOCKET & GASKET ASSEMBLY, Headlight
0020-50	1736181YP	2	BULB, HEADLIGHT 12V 15W (1156)
0030	706481	1	COVER, Light Panel
0040	7091105YP	7	SCREW, Hex Washer Head, #10-16 x 1/2
0050	703232	3	NUT, 1/4-20, NYLOCK
0060	706482	3	BOLT,GR5, 1/4-20 X 1.5
0070	1738286YP	1	WIRING HARNESS
0090	7024649YP	4	WIRE TIE, 11 Inch Std Black Nylon

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Wheel & Body Covering Group

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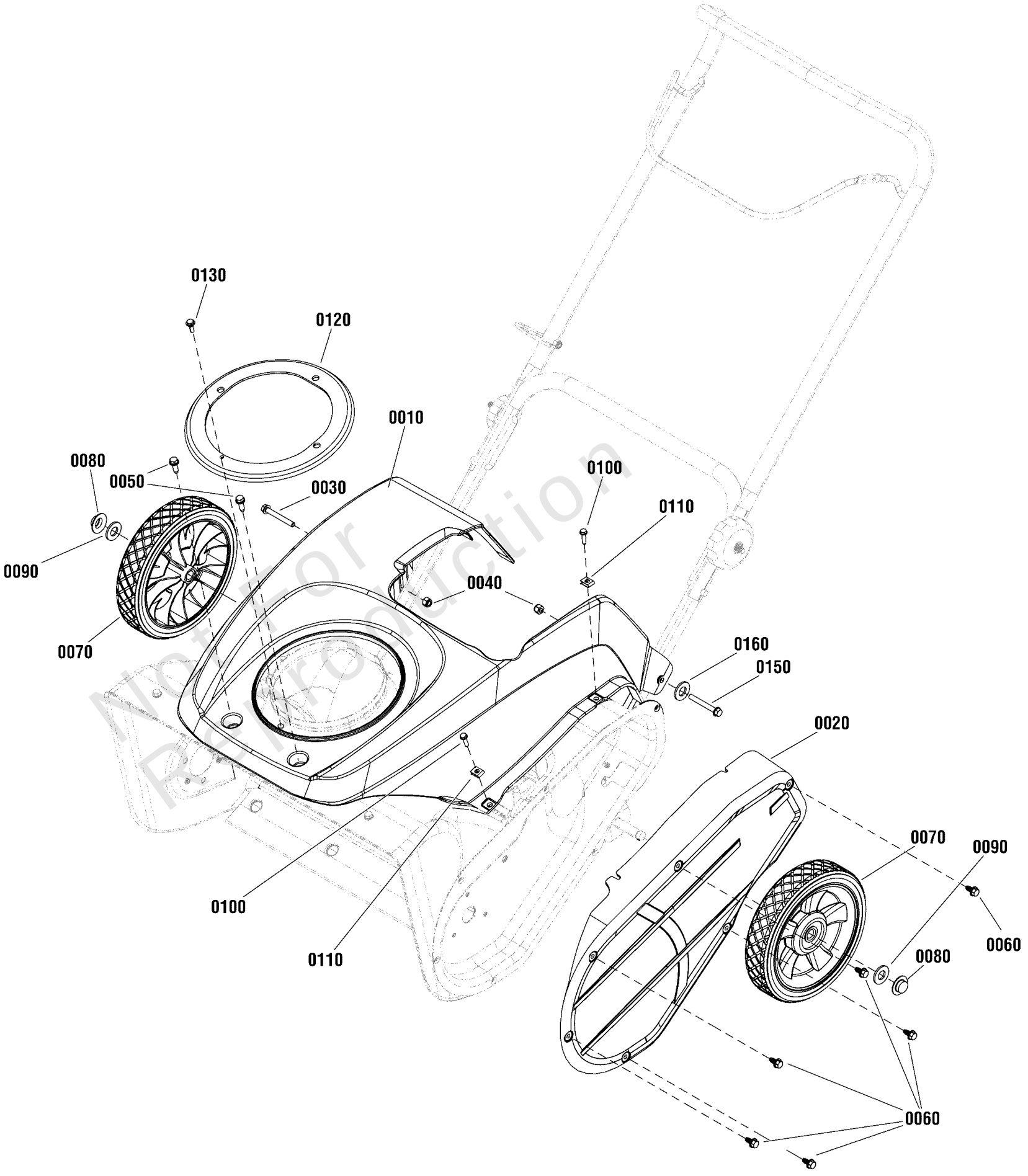

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Wheel & Body Covering Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1750161YP	1	COVER, Top, Black
0020	1739650YP	1	COVER, Drive Case
0030	1750777YP	2	CAPSCREW, Hex Washer Head, 1/4 x 20 x 2
0040	7091603SM	2	NUT, Nylock, 1/4
0050	1750444YP	2	SCREW, Hi-Low, 1/4-15 x 3/4
0060	1750447YP	6	SCREW, Hex Washer Head, Trilob,1/4-20 x 1/2
0070	709522	2	WHEEL, Yellow, 1.7 x 8, Plastic 1/2
0080	703179	2	PUSHNUT, CAP TYPE
0090	7025074SM	2	WASHER, Flat, 17/32 x 5/8
0100	1750638YP	2	CAPSCREW, Hex Washer Head, 10-24 x 3/4
0110	885118YP	2	NUT, U-Style Speed, #10
0120	1739752YP	1	COVER, Chute
0130	316042MA	1	SCREW, 10X.62 UNSL-HW
0150	703588	1	SCREW
0160	703332	1	WASHER

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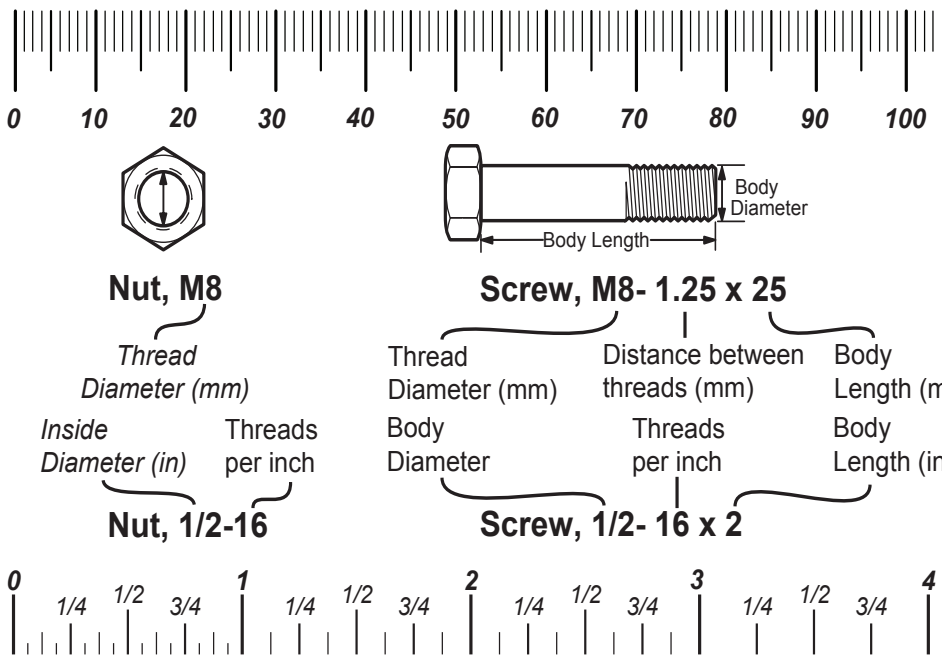
Hardware Identification & Torque Specifications

Torque Specification Chart

FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)

Property Class	5.6 Class 5.6		8.8 Class 8.8		10.9 Class 10.9		12.9 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

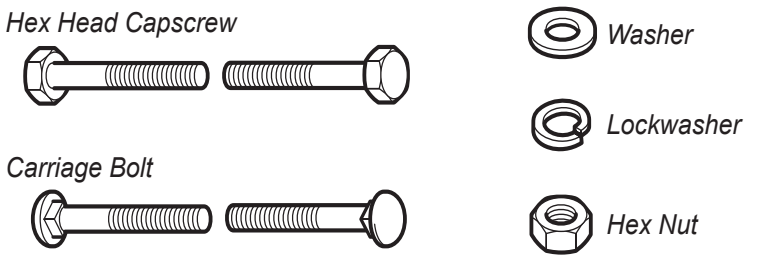
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

Hardware Grade	No Marks 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

1. 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.
2. Recommended seating torque values for locknuts:
   a. for prevailing torque locknuts - use 65% of grade 5 torques.
   b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. 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—22 mm

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