



Parts Manual

Mfg. No: 6210700x111N
18-2818-78 Mountfield MN421, Single
Stage Snow Thrower (2007)

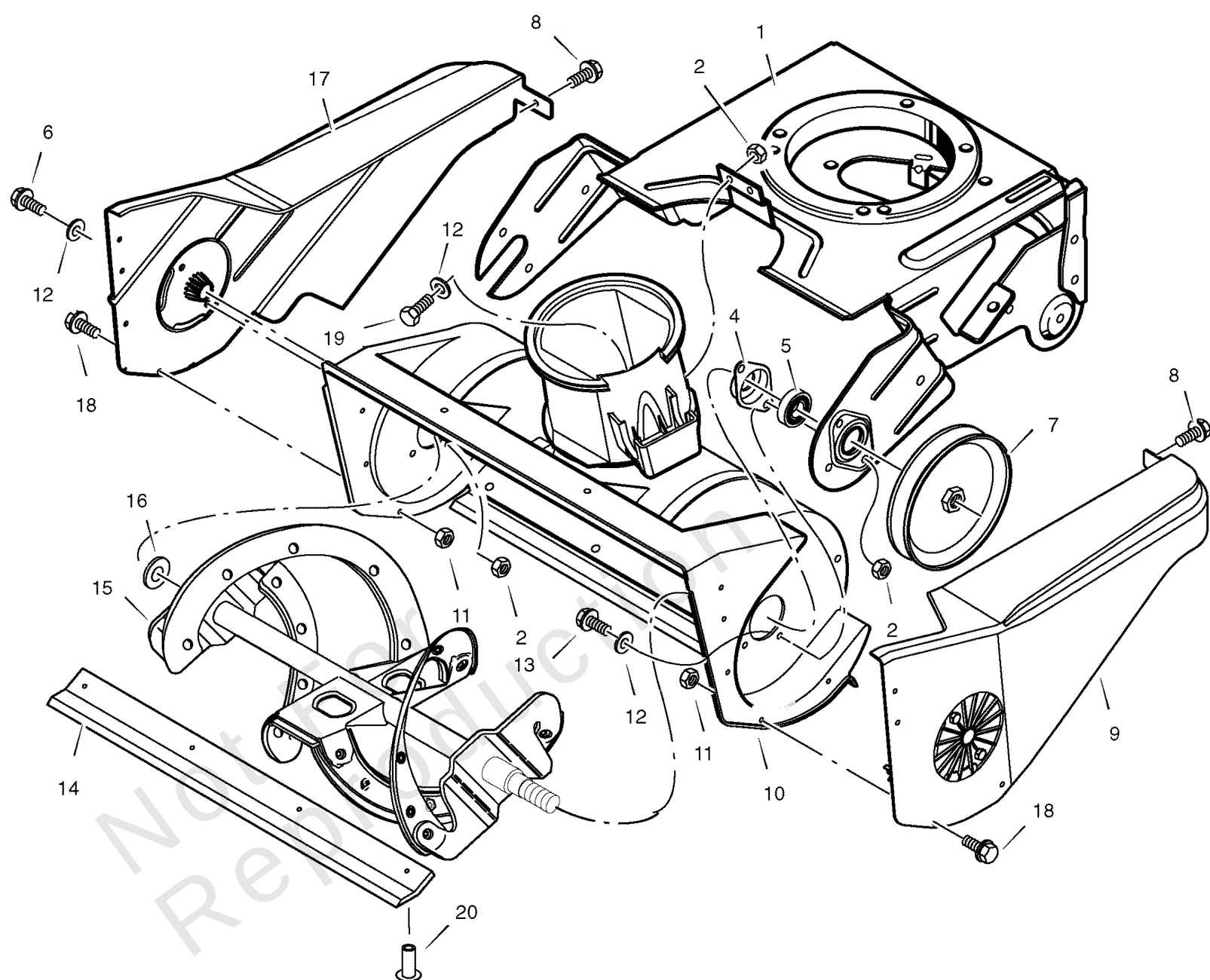
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Auger Components

Note: Unless noted otherwise, use the standard torque specifications

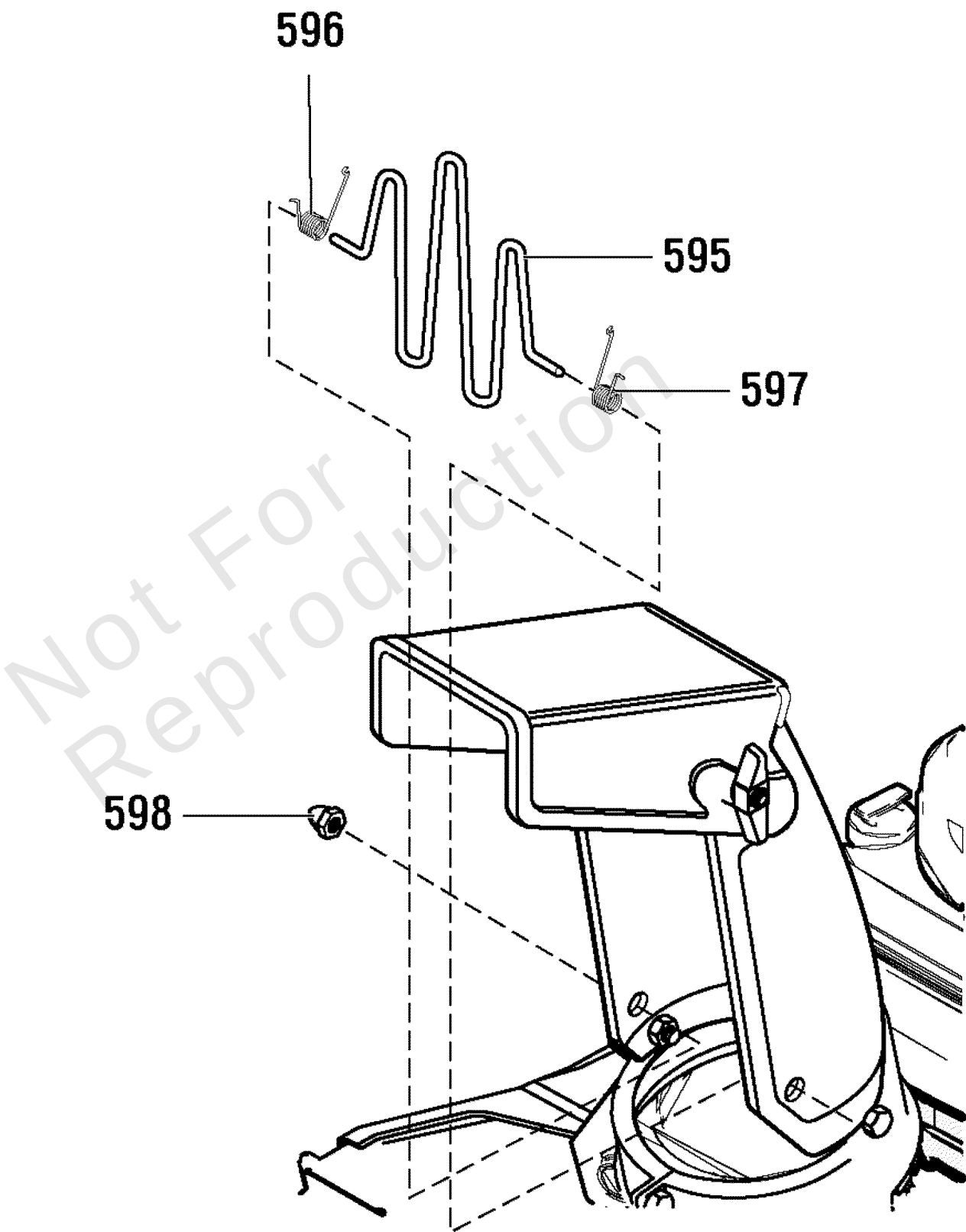
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Auger Components

REF NO	PART NO	QTY	DESCRIPTION
1	1502011E201MA		Frame, Motor Box
2	15X143MA		NUT,25-20 HEX FLG CTR
4	580251MA		Retainer, Bearing
5	43846MA		Bearing
6	302628MA		SCREW, 1/4-20X .75 HH
7	338965MA		Pulley, Auger
8	26X263MA		SCREW.25-20 S-T
9	762277MA		Cover, Left Belt
10	1501927MA		Assembly, Auger Housing
11	312300MA		Nut
12	71067MA		Washer
13	579052MA		SCREW.25-20X0.62 HHC
14	55323MA		Blade, Scraper
15	327072MA		Auger Assembly
16	580969MA		Washer
17	762278MA		Cover, Right
18	12342MA		Screw
19	302628MA		SCREW, 1/4-20X .75 HH
20	577707MA		Rivet

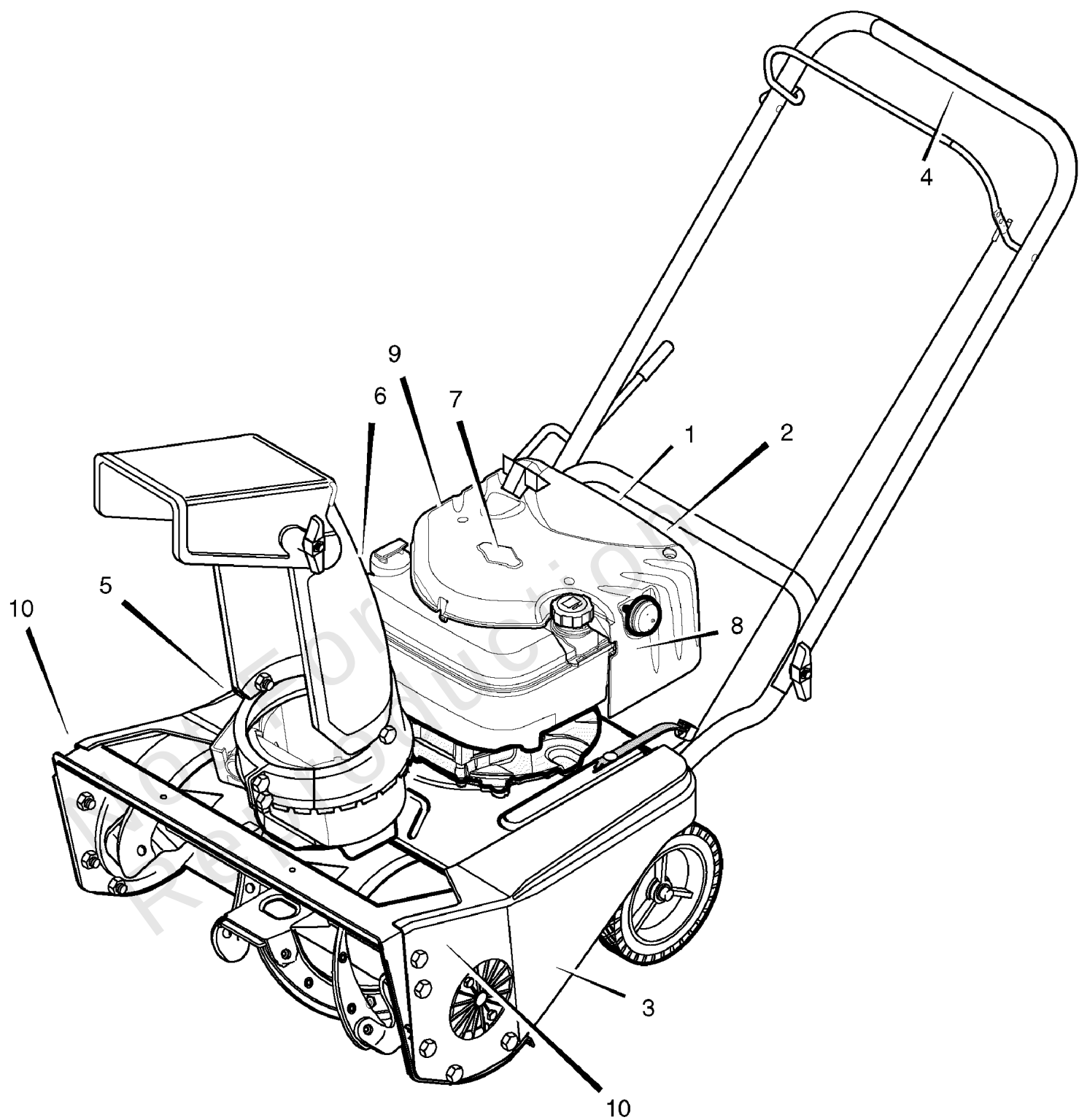
Chute Guard



Chute Guard

REF NO	PART NO	QTY	DESCRIPTION
595	311206MA		GUARD, WIRE CHUTE
596	51776MA		SPRING, TORSION
597	51777MA		SPRING, TORSION
598	49106MA		NUT, ACORN

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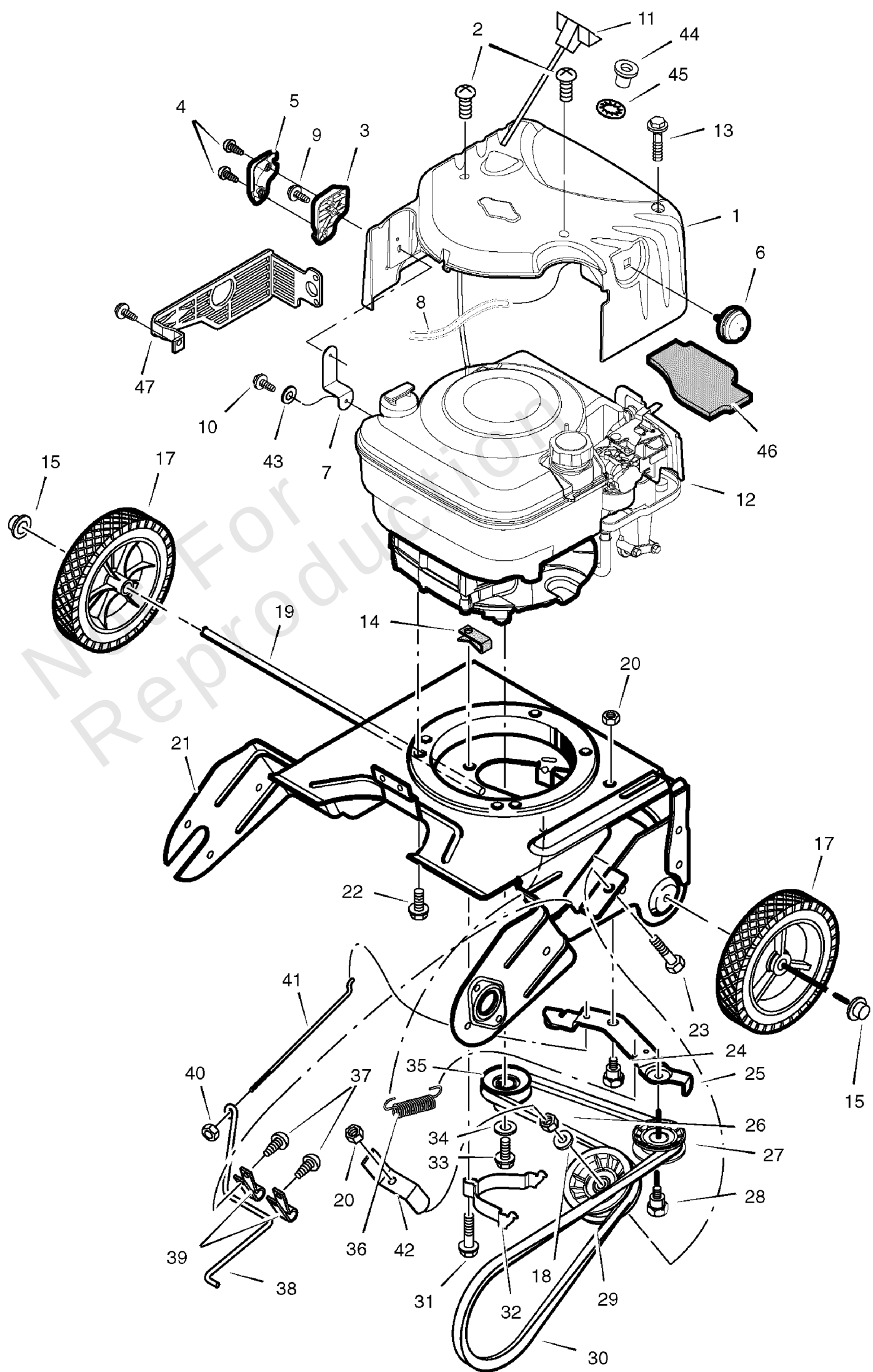
Decals

REF NO	PART NO	QTY	DESCRIPTION
1	1741589MA		Decal, Mountfield
2	48X5955MA		Decal, Choke
3	48X304MA		Decal, Belt Instruction (inside cover)
4	48X5998MA		Decal, Auger Control Lever
5	48X5995MA		Decal, Danger Auger (Foot)
6	48X5994MA		Decal, Danger Chute (Hand)
7	48X5533MA		Decal, Briggs & Stratton
8	48X5996MA		Decal, Primer Bulb
9	48X5999MA		Decal, Hot Surface
10	1741590MA		Decal, Mountfield MN 421

Drive Components

Note: Unless noted otherwise, use the standard torque specifications

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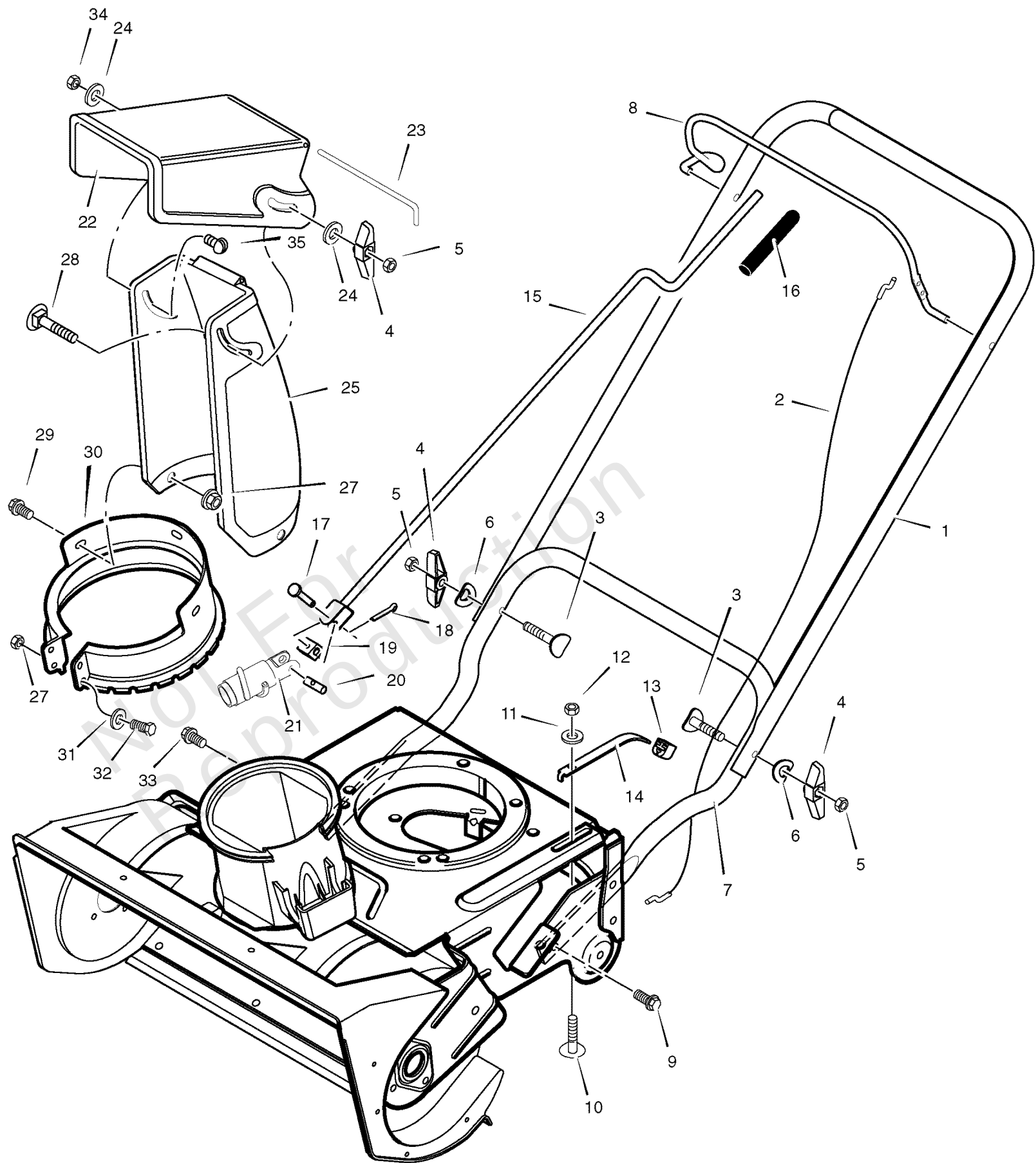
Drive Components

REF NO	PART NO	QTY	DESCRIPTION
1	1501812MA		Cover, Top
2	26X316MA		Screw
3	1501814MA		Base, Chute Rod
4	26X292MA		Screw
5	1501815MA		Cover, Chute Rod
6	790221		Primerbulb, Red
7	1501813MA		Bracket, Engine Chute
8	793006		Hose
9	780212MA		Screw
10	578408MA		Screw
11	1501724MA		Handle, Starter
12	-----		Engine -(1205020354E1)
13	01X215MA		Bolt
14	578109MA		Retainer
15	711627MA		Nut, Push Cap
17	760713MA		Wheel & Tire
18	71072MA		WASHER, FLAT .406X.81
19	762280MA		Axle
20	71111MA		Nut
21	1502011E201MA		Frame, Motor Box
22	47792MA		Bolt
23	71007MA		Bolt
24	009X48MA		BOLT-SHD.38-16X.499D
25	762254MA		Bracket, Idler Arm
26	71044MA		Nut
27	762257MA		Pulley, V-Belt
28	762258MA		Bolt, Shoulder
29	762256MA		Pulley, Flat Idler
30	37X131MA		Belt
31	315312MA		Screw
32	762267MA		Guide, Belt
33	910828MA		Screw
34	71060MA		Washer
35	762255MA		Pulley
36	165X143MA		Spring
37	26X263MA		SCREW.25-20 S-T
38	762288MA		Arm, Brake
39	762285MA		Clamp
40	312300MA		Nut
41	762287MA		Rod, Adjustment
42	762380MA		Guide, Belt
43	018X35MA		Lockwasher
44	1501919MA		Guide, Rope
45	028X84MA		Spring Grip Washer
46	1501920MA		Seal, Foam
47	1502130MA		Guard, Muffler

Handle Assembly

Note: Unless noted otherwise, use the standard torque specifications

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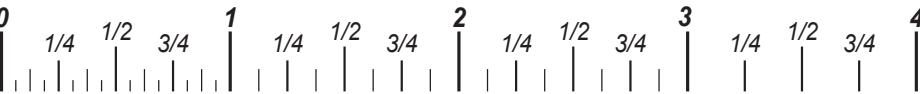
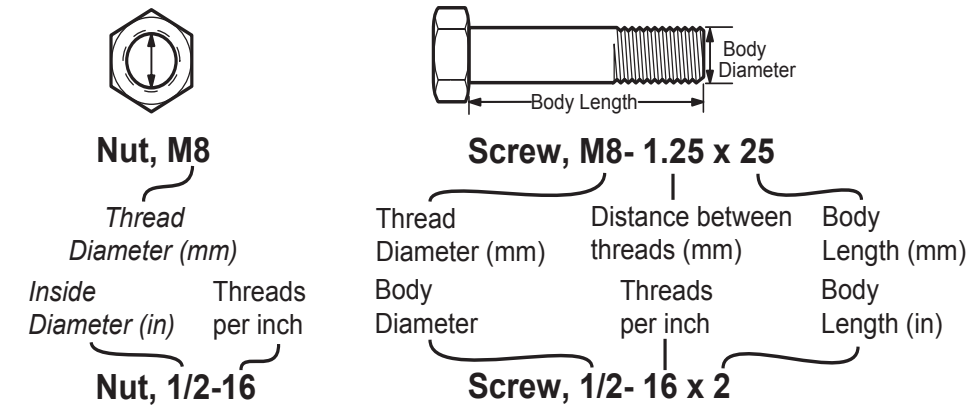
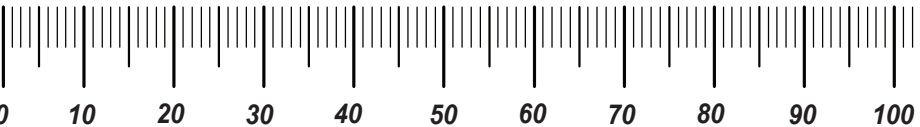
Handle Assembly

REF NO	PART NO	QTY	DESCRIPTION
1	762252E701MA		Handle, Upper
2	762259MA		Cable, Auger Drive
3	337584MA		BOLT, 5/16-18X2.00 CU
4	57171MA		Knob
5	71037MA		Nut
6	311936MA		WASHER, FORM .344 ID
7	762250E701MA		Handle, Lower
8	762251E701MA		Lever, Auger Drive
9	25X021MA		Screw
10	340715MA		Bolt
11	712123MA		Washer
12	780029MA		NUT.25-20 HEX NYLK 15
13	762281MA		Bushing, Tensioner
14	762282MA		Bracket, Cable Tensioner
15	762362MA		Rod, Crank
16	762289MA		Grip, Crank Rod
17	578309MA		LF PIN, CLEVIS .25DX
18	579493MA		PIN, COTTER .06X .50
19	578063MA		BLOCK,UNIVERSAL PIVOT
20	578060MA		PIN,UNIV JOINT 3/8X1.
21	585196MA		Gear, Worm
22	325847MA		CHUTE,UPR C1 BLACK
23	308931MA		Pin, Pivot
24	71071MA		Washer
25	334234MA		CHUTE,LWR C1 BLACK
27	15X143MA		NUT,25-20 HEX FLG CTR
28	302843MA		BOLT, 5/16-18X1.25 CA
29	313686MA		SCREW, 1/4-20X .50 HH
30	1501846MA		Ring, Chute
31	71067MA		Washer
32	302628MA		SCREW, 1/4-20X .75 HH
33	25X021MA		Bolt
34	71391MA		NUT.31-18 HEX CTRLK
35	578088MA		SCREW, 5/16-18X .75SL

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).

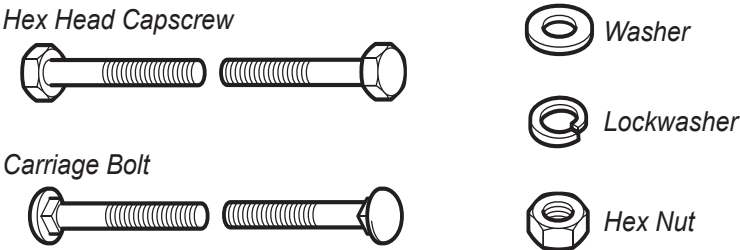
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

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