



Parts Manual

Mfg. No: 621501x31NB
Single Stage Snow Thrower (2006)

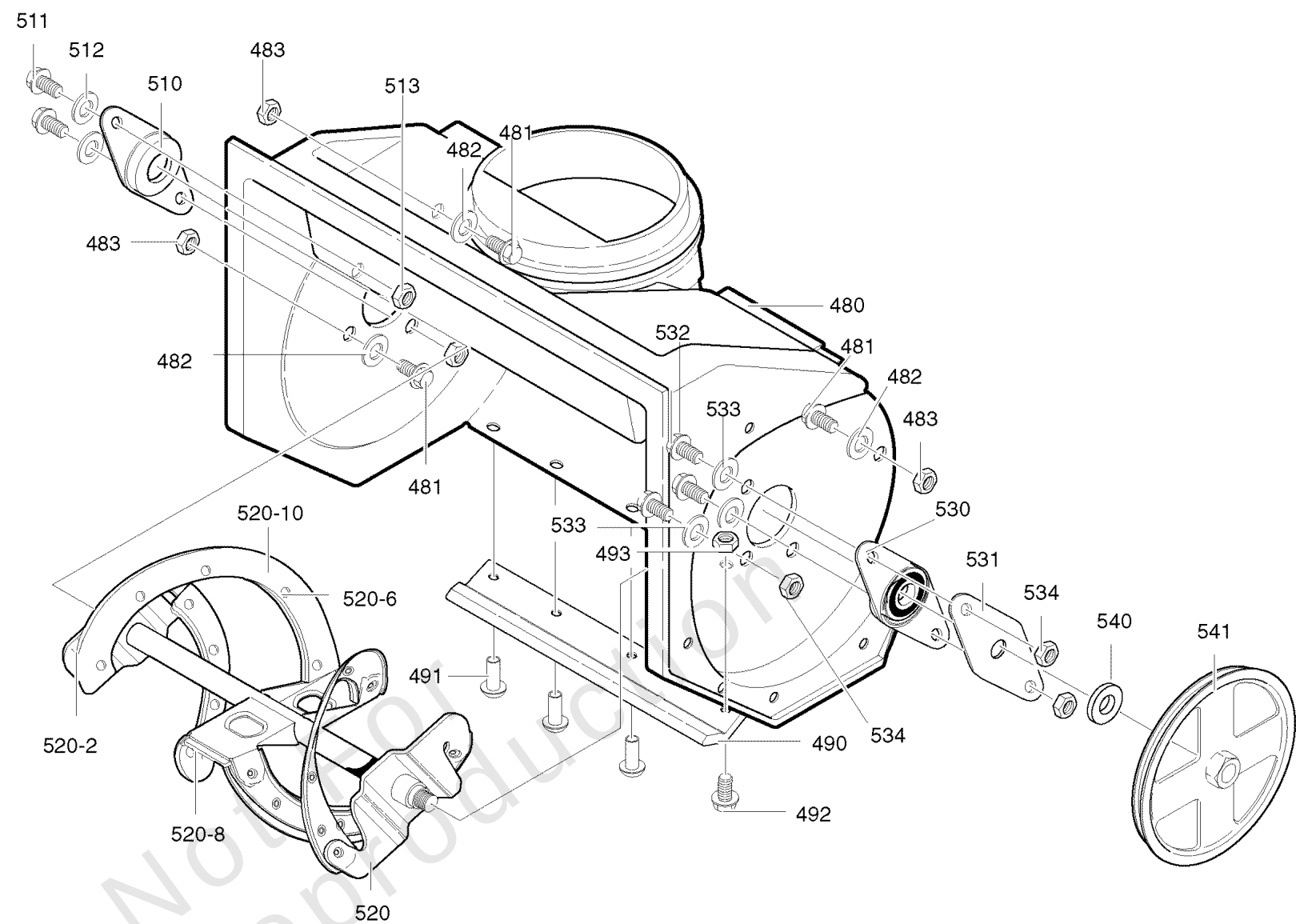
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Not For
Reproduction

Auger Housing

Note: Unless noted otherwise, use the standard torque specifications

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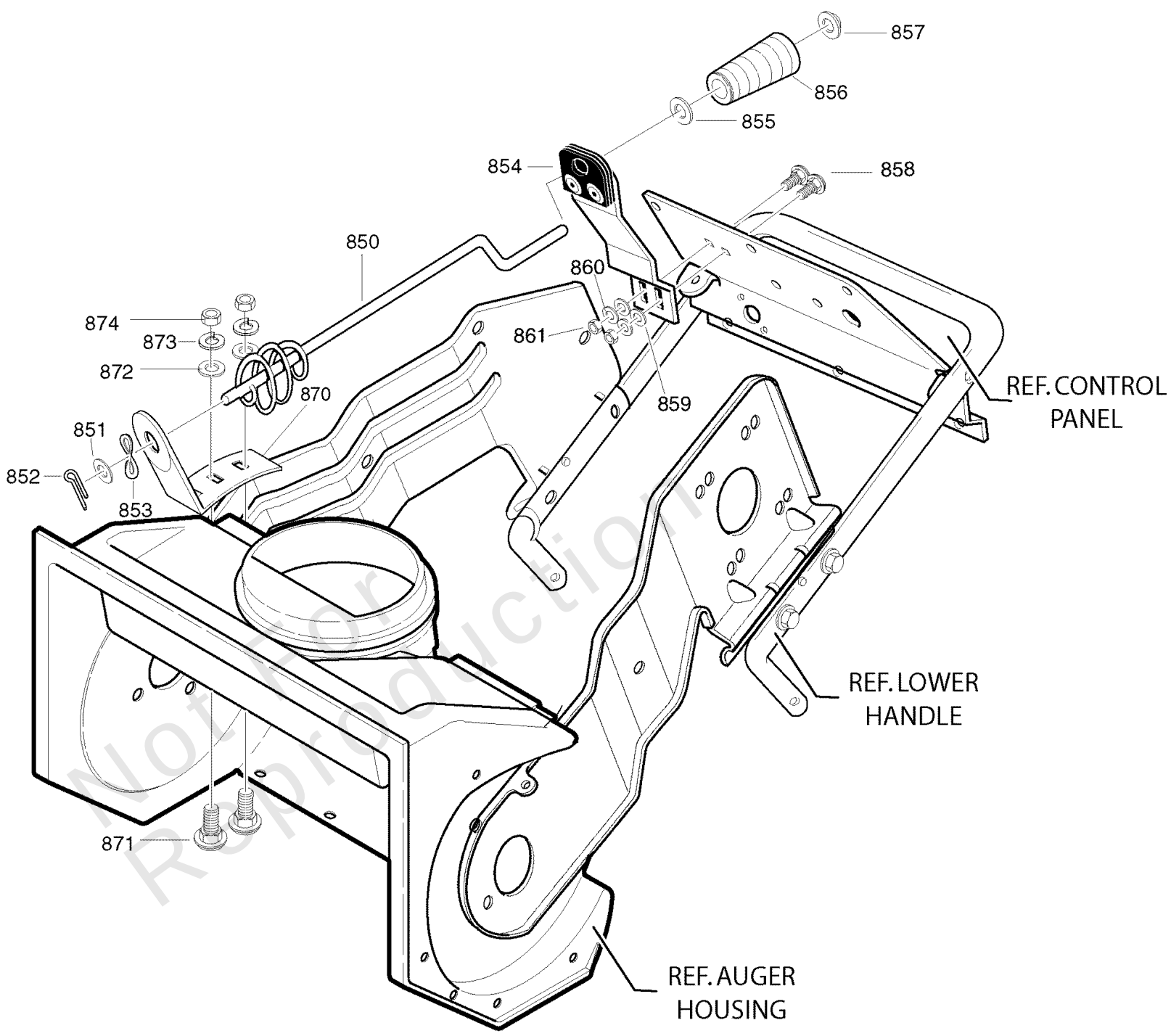
Auger Housing

REF NO	PART NO	QTY	DESCRIPTION
480	340091MA		HOUSING, ASSEMBLY
481	302628MA		SCREW, 1/4-20X .75 HH
482	71067MA		WASHER, FLAT .281 X .63 X .065
483	15X143MA		NUT,25-20 HEX FLG CTR
490	55323MA		BLADE, SCRAPER
491	577707MA		RIVET, OFFSET
492	302628MA		SCREW, 1/4-20X .75 HH
493	15X143MA		NUT,25-20 HEX FLG CTR
510	577023MA		BRNG, FLNG
511	710263MA		SCREW, 1/4-20 X 1.00
512	71067MA		WASHER, FLAT .281 X .63 X .065
513	15X143MA		NUT,25-20 HEX FLG CTR
520	327072MA		AUGER, ASSEMBLY
520-2	302565MA		BLADE, AUGER
520-6	49838MA		RIVET, .250DIAX.5
520-8	335992MA		BLADE,CENTER <57121
520-10	307049E701MA		AUGER & BLADE SUPPORT
530	583459MA		PLATE&BEARING ASY
531	334287MA		PLATE, RETAINER
532	579052MA		SCREW.25-20X0.62 HHC
533	71067MA		WASHER, FLAT .281 X .63 X .065
534	15X143MA		NUT,25-20 HEX FLG CTR
541	338965MA		PULLEY
542	17X100MA		WASHER

Chute Rod Assembly

Note: Unless noted otherwise, use the standard torque specifications

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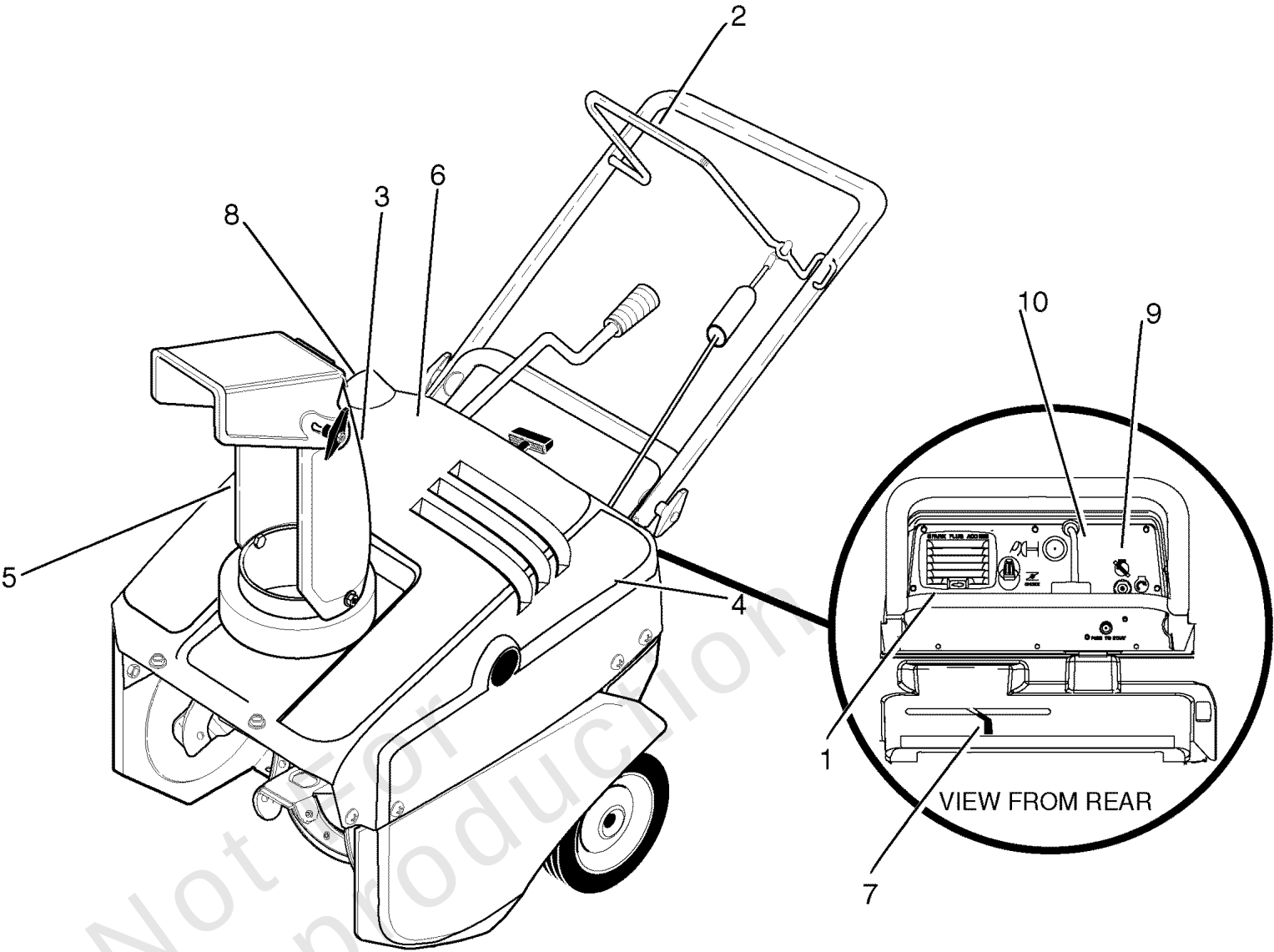
Chute Rod Assembly

REF NO	PART NO	QTY	DESCRIPTION
850	337941MA		ROD, CHUTE
851	71072MA		WASHER, FLAT .406X.81
852	71082MA		PIN, COTTER
853	313431MA		WASHER, CURVED SPRING
854	340186MA		ASSY, CHUTE CRANK
855	71072MA		WASHER, FLAT .406X.81
856	57082MA		KNOB, SLEEVE
857	331532MA		NUT, PUSH, FITS 3/8 D
858	340715MA		BOLT, 1/4-20 X .63 CARRIAGE
859	71071MA		WASHER, FLAT .344 X .69 X .065
860	71060MA		WASHER, .31 X .58 X .08
861	71034MA		NUT, 1/4-20 REGHEX
870	333946E701MA		BRKT, CHUTE ROTATE
871	340720MA		BOLT, 5/16-18 X .75 CARRIAGE
872	71071MA		WASHER, FLAT .349 X .69 X .066
873	71060MA		WASHER, SPLIT LOCK .31 X .58 X .08
874	71037MA		NUT, 5/16-18 HEXHEAD

Decals

Note: Unless noted otherwise, use the standard torque specifications

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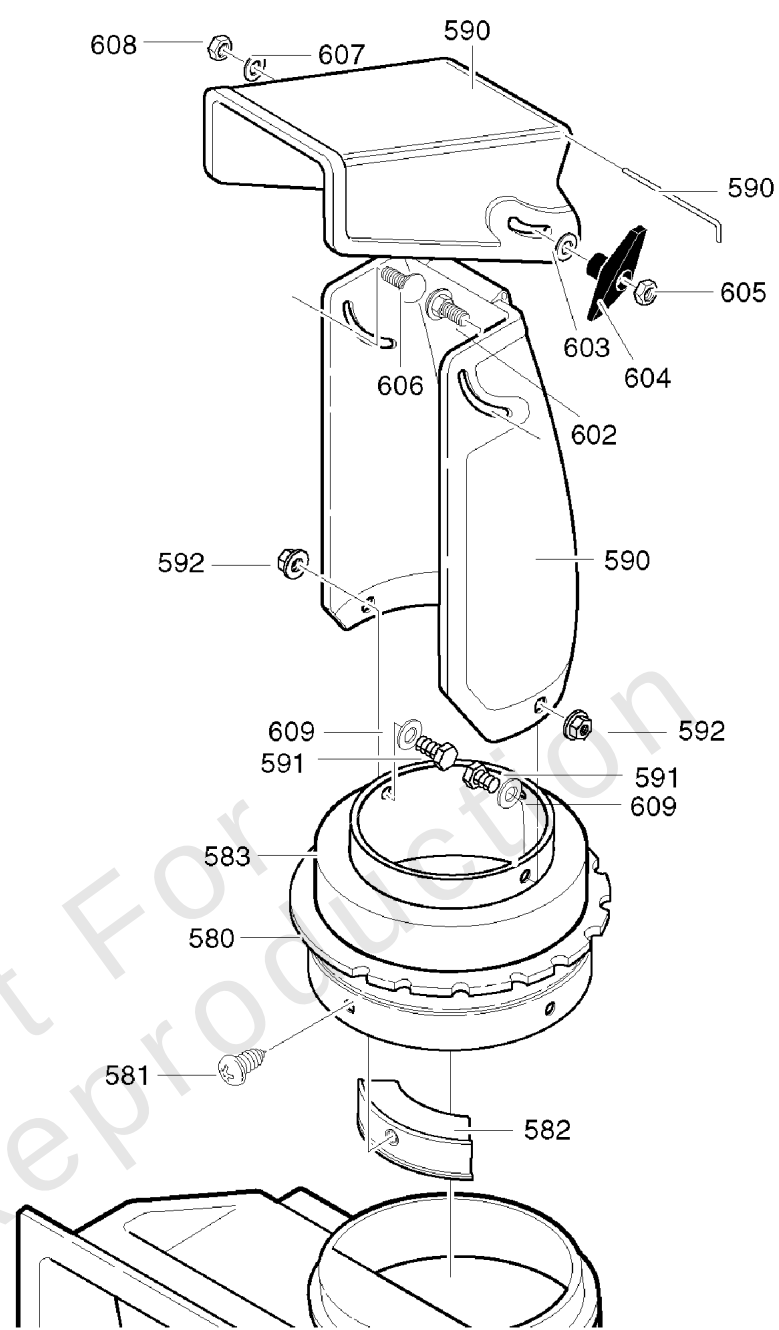
Decals

REF NO	PART NO	QTY	DESCRIPTION
1	761799MA		DECAL, SPARK PLUG ACCESS
2	337524MA		DECAL, AUGER CONTROL
3	48X5643MA		DECAL, DANGER CHUTE
4	302778MA		DECAL, DANGER MUFFLER
5	48X5644MA		DECAL, DANGER AUGER
6	48X5953MA		DECAL, ODEC MURRAY 5.0/21
7	302774MA		DECAL, OFF-CHOKE-ON
8	48X5640MA		DECAL, EPA
9	761793MA		DECAL, ELECTRIC START COVER UP
10	48X269MA		DECAL, DASH 21"

Discharge Chute

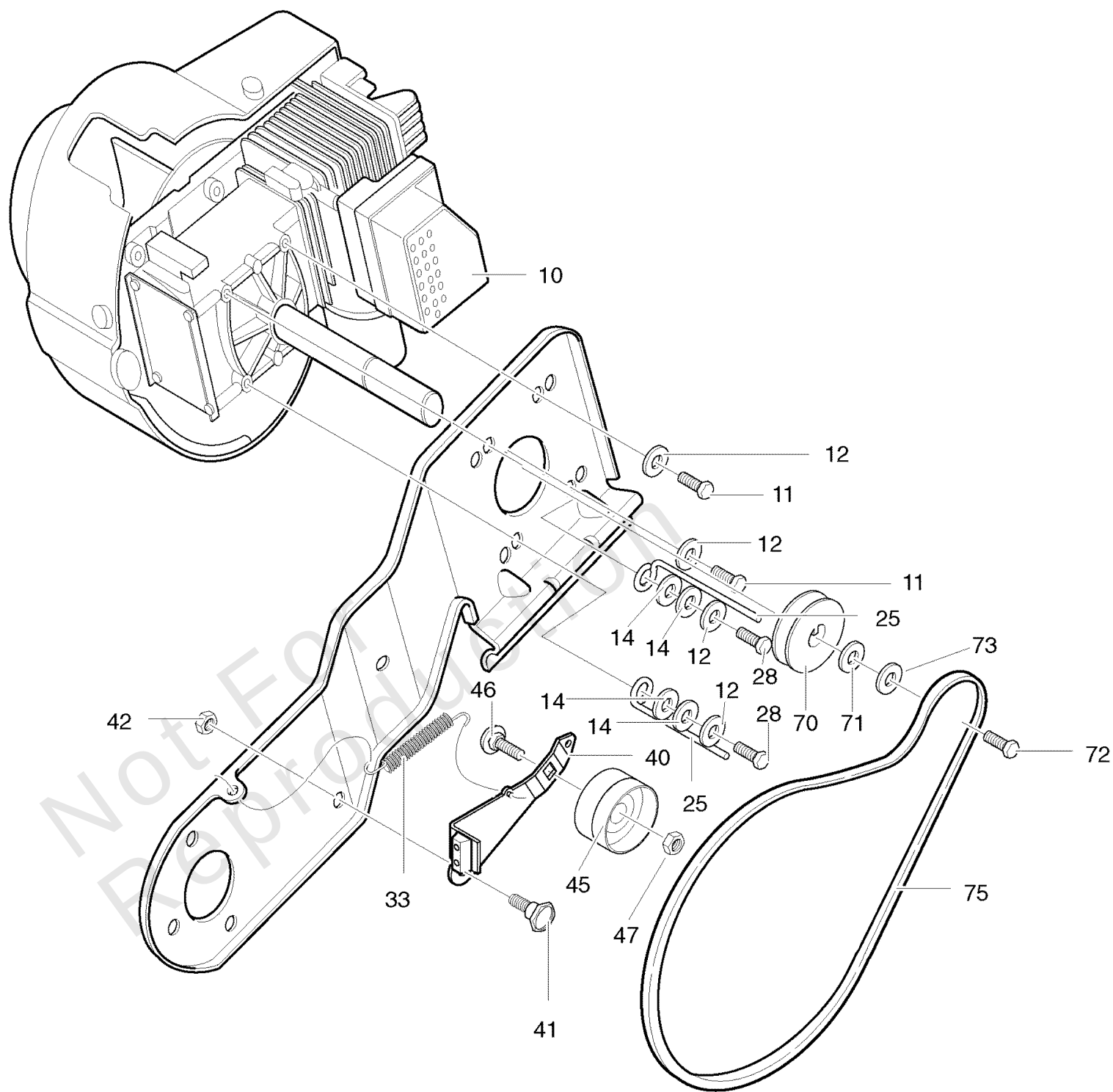
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Discharge Chute

REF NO	PART NO	QTY	DESCRIPTION
580	333860MA		RING, CHUTE
581	711752MA		SCREW, #10 X .50
582	577021MA		GUIDE, CHUTE
583	762173MA		DONUT FOAM
590	305862MA		CHUTE,LWR 21 653BLK
591	302628MA		SCREW, 1/4-20X .75 HH
592	15X143MA		NUT,25-20 HEX FLG CTR
600	305861MA		CHUTE DEFLECTOR, UPPER
602	302843MA		BOLT, 5/16-18X1.25 CA
603	71071MA		WASHER, FLAT
604	57171MA		KNOB, T
605	71037MA		NUT, 5/16-18
606	578088MA		SCREW, 5/16-18X .75SL
607	71071MA		WASHER, FLAT .349 X .69 X .066
608	71391MA		NUT.31-18 HEX CTRLK
609	71067MA		WASHER, FLAT



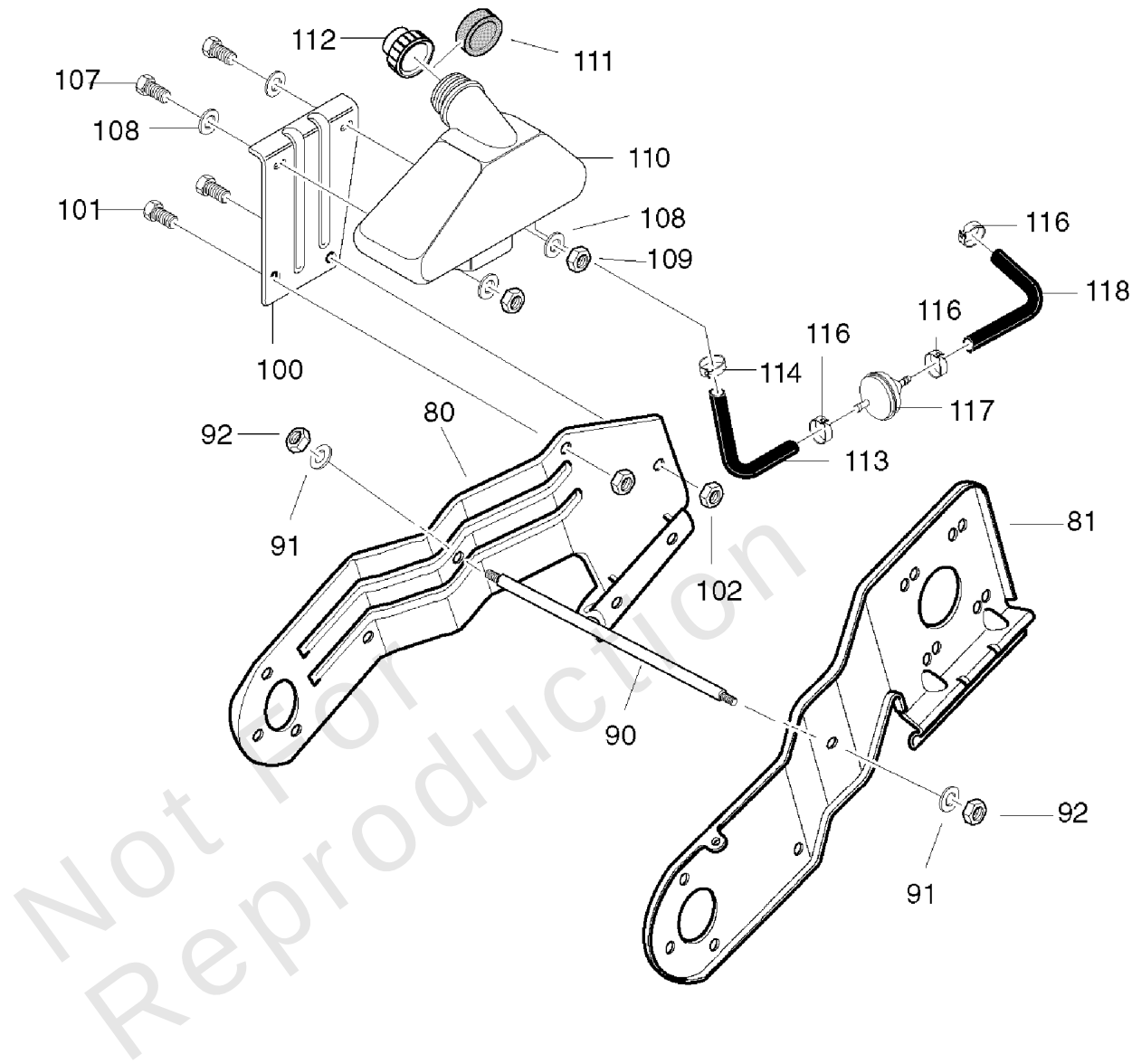
Engine Assembly

REF NO	PART NO	QTY	DESCRIPTION
10	-----		ENGINE
11	313676MA		SCREW, 5/16-18 x 0.75
12	71060MA		WASHER
14	71071MA		WASHER, FLAT
25	313440MA		GUIDE, BELT
28	710312MA		SCREW
33	339017MA		SPRING, IDLER BRAKE
40	1501013MA		ASSY, IDLER BRAKE ARM
41	333594MA		BOLT-SHD.500X.177 .31
42	71391MA		NUT.31-18 HEX CTRLK
45	48924MA		PULLEY, IDLER
46	45892MA		BOLT, CARRIAGE
47	590MA		NUT
70	338849MA		PULLEY, ENGINE
71	25840MA		WASHER .328-1.00 SPRING
72	181595MA		SCREW, 5/16-24 x 0.75
73	71060MA		WASHER, SPLIT LOCK
75	37X132MA		BELT V 3L 34.8
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Frame Components Assembly

Note: Unless noted otherwise, use the standard torque specifications

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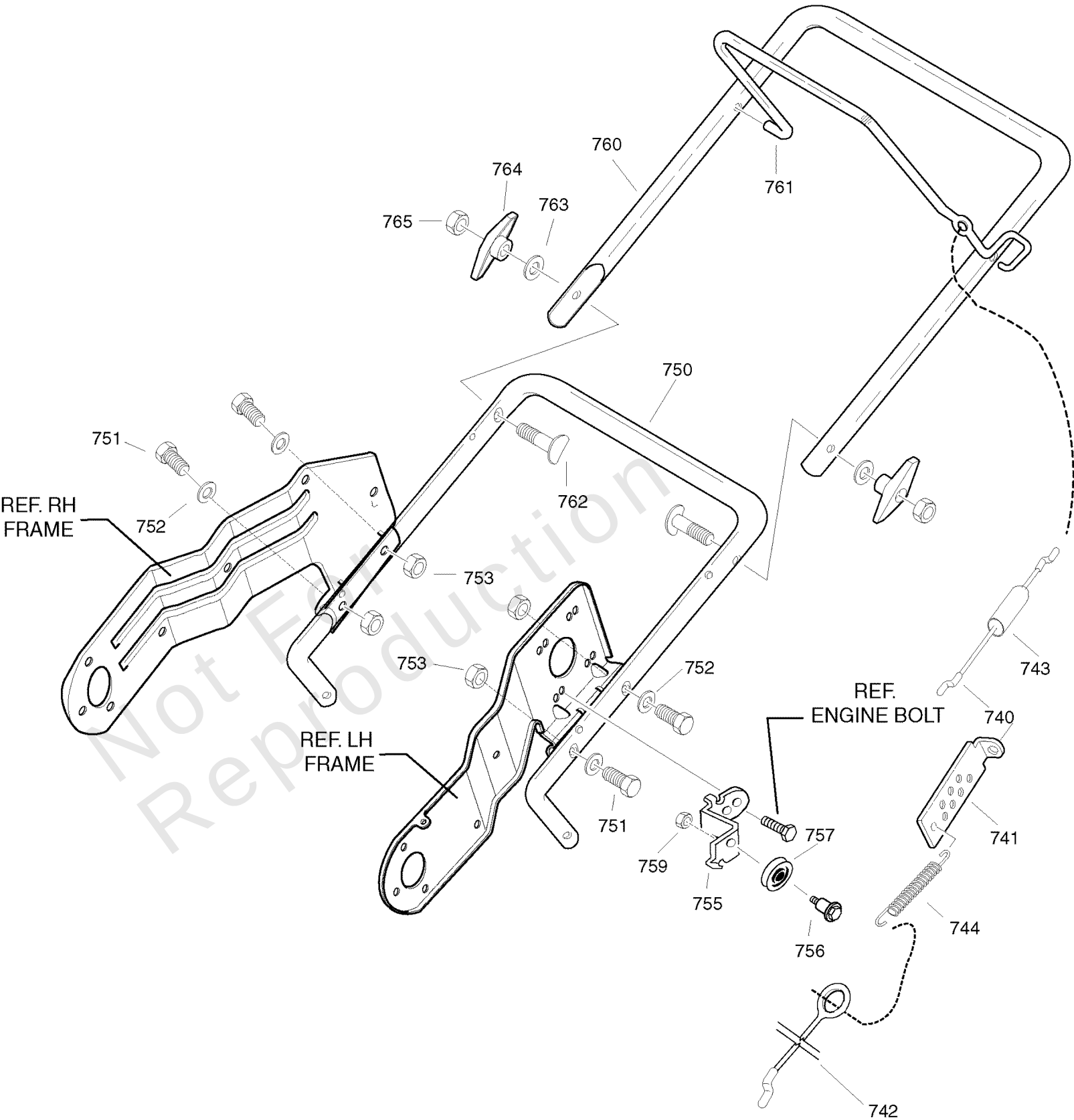
Frame Components Assembly

REF NO	PART NO	QTY	DESCRIPTION
80	760272E701		FRAME, SIDE SUPT STEEL RH
81	760271E701MA		FRAME, SIDE SUPT STEEL LH
90	760168MA		ROD, SUPPORT
91	71063MA		WASHER
92	71044MA		NUT, 3/8-16 HEX
100	333749E701MA		BRACKET, GAS TANK
101	302628MA		SCREW, 1/4-20X .75 HH
102	73826MA		NUT, 1/4-20 HEX
107	302628MA		SCREW, 1/4-20X .75 HH
108	71067MA		WASHER, FLAT
109	73826MA		NUT, 1/420 HEX
110	333739MA		TANK, FUEL
111	762224MA		RING, FOAM FUEL TANK
112	340299MA		CAP, GAS
113	323363MA		TUBING.25X.47X 8.00 G
114	47345MA		CLAMP, SCREW TYPE
116	323387MA		CLAMP, HOSE
117	56679MA		FILTER IN LINE
118	335906MA		TUBING, 6 INCH

Handle Assembly

Note: Unless noted otherwise, use the standard torque specifications

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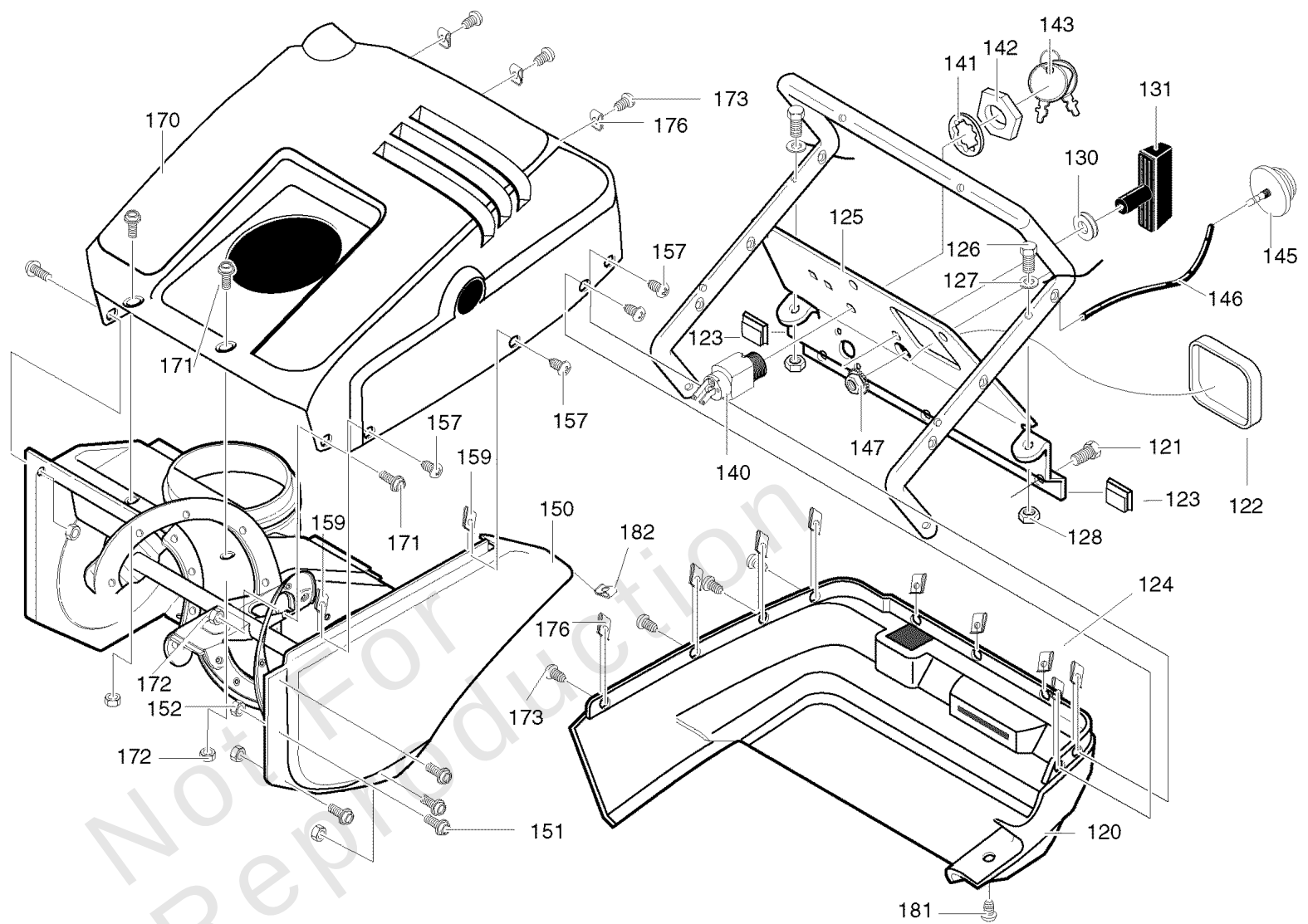
Handle Assembly

REF NO	PART NO	QTY	DESCRIPTION
740	760774MA		CABLE, UPPER
741	313441MA		BRACKET, CABLE ADJ BL
742	760773MA		CABLE, LOWER CONTROL
743	308146MA		BOOT, CLUTCH SPRING
744	313471MA		SPRING,EXT.75 OD X.06
750	333909E701MA		HANDLE, LOWER
751	313674MA		SCREW, 1/4-20 X 1.25
752	71067MA		WASHER, FLAT
753	73826MA		NUT, 1/4-20
755	761486E701MA		BRKT,CABLE SSF
756	712234MA		BOLT
757	39298MA		PULLEY,NYLON.906X.305
759	15X143MA		NUT,25-20 HEX FLG CTR
760	333919E701MA		UPPER HANDLE
761	313308E701MA		BAIL, CONTROL
762	337584MA		BOLT, 5/16-18X2.00 CU
763	311936MA		WASHER, FORM .344 ID
764	57171MA		KNOB, T 3.00 WD
765	71037MA		NUT, 5/16-18

Top Cover Assembly

Note: Unless noted otherwise, use the standard torque specifications

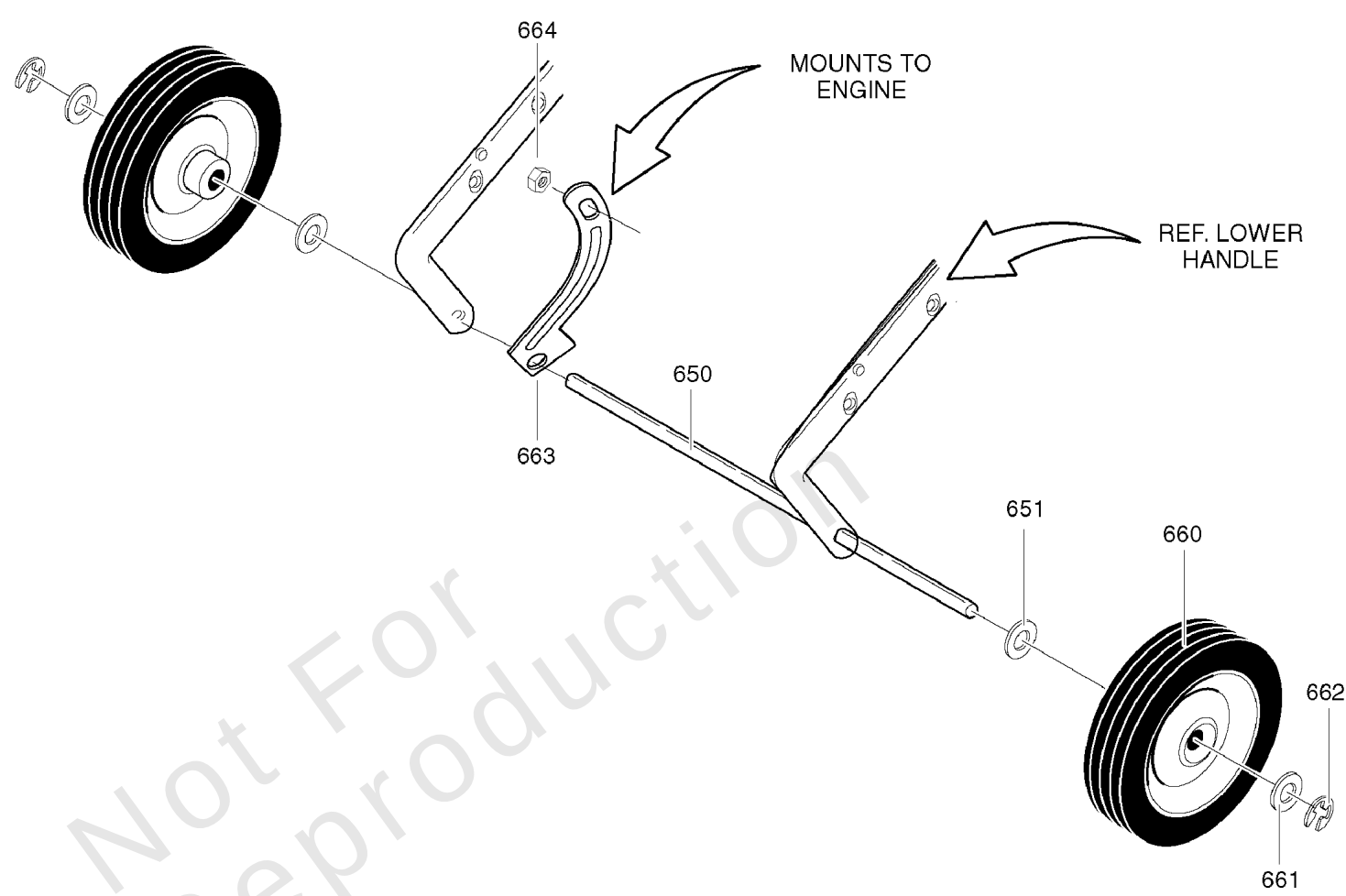
Mfg. No: 621501x31NB



Top Cover Assembly

REF NO	PART NO	QTY	DESCRIPTION
120	340097MA		COVER, BOTTOM
121	313685MA		SCREW, 1/4-14X .75 SL
122	761538MA		PANEL, SPARK ACCESS
123	313057MA		CLIP,S-TINNERMAN BLAC
124	578109MA		NUT, 1/4-10 SPEED J TYPE
125	761631E701MA		CONTROL PANEL
126	313674MA		SCREW, 1/4-20 X 1.25
127	71067MA		FLATWASHER, .281 X .63 X .065
128	73826MA		NUT, 1/4-20 HEX HEAD CENTER LOCK
130	57587MA		GOMMET & WASHER
131	333643MA		KNOB T
140	56992MA		SWITCH, IGNITION
141	313683MA		WASHER, INTERAL TOOTH LOCK .640 x 1.1 x .05
142	300193MA		NUT. 5/8-32
143	49643MA		KEYS & RING
145	54601MA		PRIMERBULB
146	335507MA		HOSE PRIM 9.50LG
147	271172MA		NUT, 1/4-20 REGHEXKEP
150	340089MA		COVER, BELT
151	12342MA		SCREW, 10-24 X .50
152	312300MA		NUT, #10-24 HEX HEAD CENTER LOCK
157	313685MA		SCREW, 1/4-14X .75 SL
159	578109MA		NUT, 1/4-10 SPEED J TYPE
170	1501218MA		COVER, TOP
171	12342MA		SCREW,#10-24 X .50
172	312300MA		NUT #10-24 HEX HEAD CENTER LOCK
173	313685MA		SCREW, 1/4-14X .75 SL
176	578109MA		NUT, 1/4-10 SPEED J TYPE
181	313685MA		SCREW, 1/4-14X .75 SL
182	578109MA		NUT 1/4-10 SPEED J TYPE

Wheels



Wheels

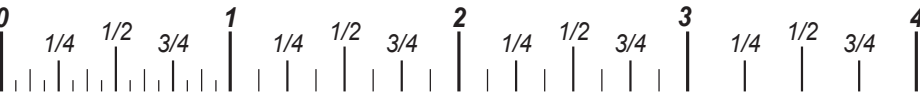
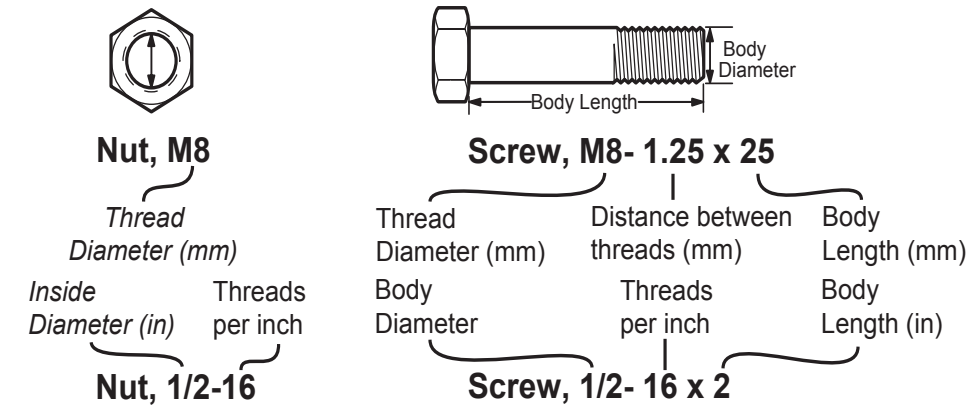
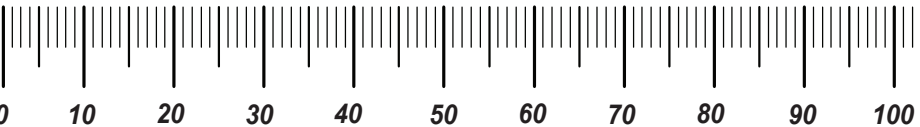
REF NO	PART NO	QTY	DESCRIPTION
650	313678MA		AXLE SHAFT
651	583409MA		WASHER, FLAT .391 X 1.00 X 1.25
660	1502190MA		TIRE & RIM
661	583409MA		WASHER, FLAT .391 X 1.00 X .125
662	577598MA		RING, RET E .30X.04TR
663	1502048MA		BRACKET, AXLE
664	71391MA		NUT.31-18 HEX CTRLK

Not For Reproduction

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).

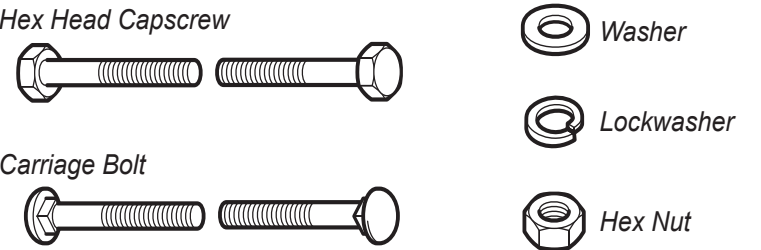
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

