



Parts Manual

Mfg. No: 620301x61NC
Single Stage Snow Thrower (2004)

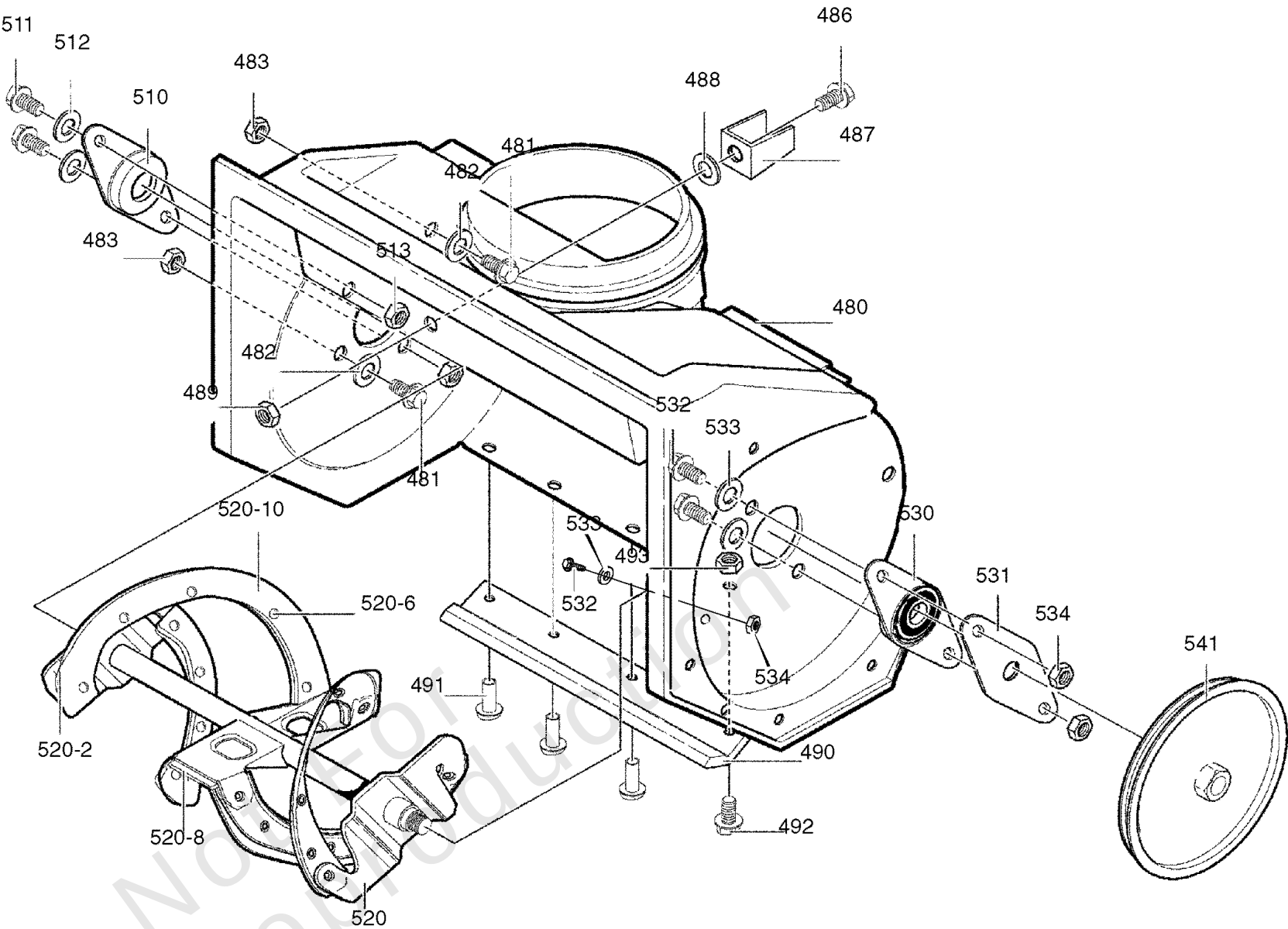
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Auger Housing

Note: Unless noted otherwise, use the standard torque specifications

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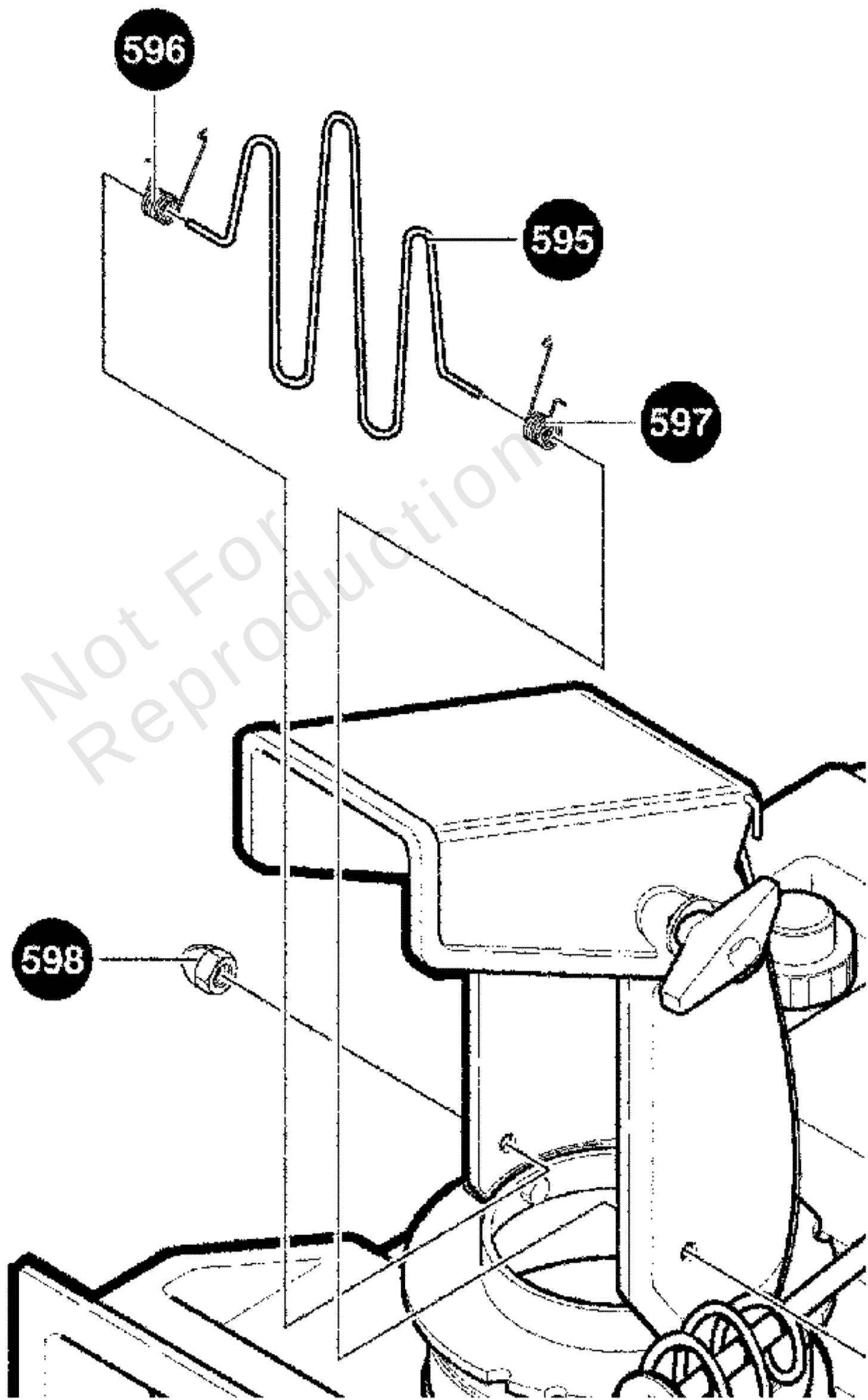
Auger Housing

REF NO	PART NO	QTY	DESCRIPTION
480	330312		HOUSING, ASSY
481	302628		SCREW, 1/4-20X.75
482	71067		WASHER, FLAT .281X.63X.065
483	15X143		NUT, HEX 1/4-20 YZ
486	579052		SCREW, 1/4-20X.63
487	331126		BRACKET, STOP
488	331211		WASHER, FLAT .333X.87X.119
489	780029		NUT, 1/4-20 HEX NYLOCK
490	334031		BLADE, SCRAPER
491	577707		RIVET, OVSET
492	302628		SCREW, 1/4-20X.75
493	15X143		NUT, 1/4-20 YZ
510	577023		BEARING, FLANGE
511	710263		SCREW, 1/4-20X1.00
512	71067		WASHER, FLAT .281X.63X.065
513	15X143		NUT, 1/4-20 YZ
520	1501926		AUGER, ASSY
520-2	302565		BLADE, AUGER
520-6	49838		RIVET
520-8	335992		BLADE, CENTER
520-10	1501925E701		AUGER & BLADE SUPPORT
530	583459		BEARING & PLATE ASSY
531	334287		PLATE, RETAINER
532	579052		SCREW, 1/4-20X.63
533	71067		WASHER, FLAT .281X.63X.065
534	73826		NUT, 1/4-20
541	338965		PULLEY

Chute Guard

Note: Unless noted otherwise, use the standard torque specifications

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Chute Guard

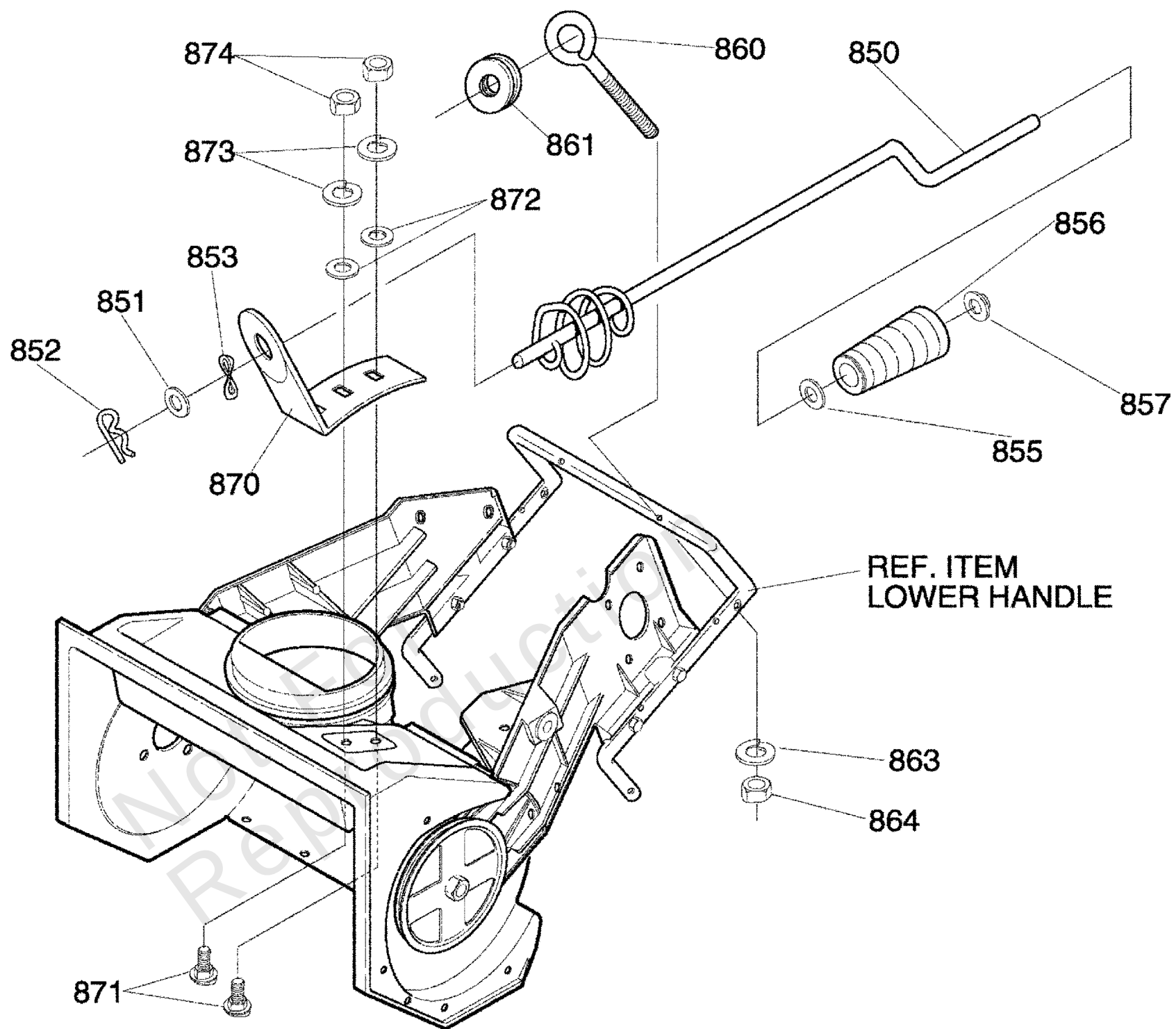
REF NO	PART NO	QTY	DESCRIPTION
595	311206		GUARD, WIRE CHUTE
596	51776		SPRING, TORSION
597	51777		SPRING, TORSION
598	49106		NUT, ACORN

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Chute Rod Assembly

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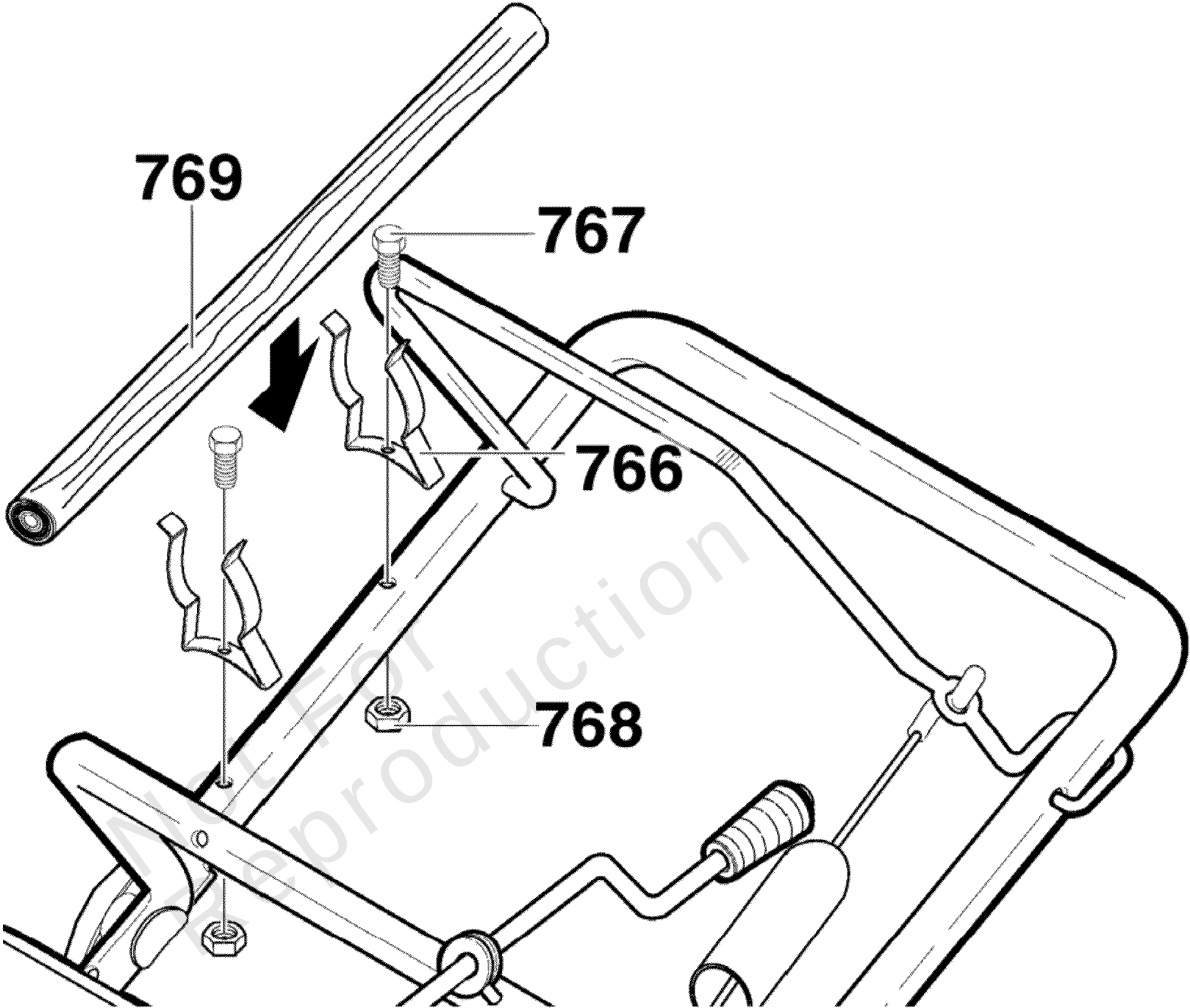
Chute Rod Assembly

REF NO	PART NO	QTY	DESCRIPTION
850	314996		ROD, ASSY UPPER CHUTE CONTROL
851	71072		WASHER, FLAT .406X.81X.066
852	71082		PIN, COTTER
853	313431		WASHER, CURVED SPRING
855	71072		WASHER, FLAT .406X.81X.066
856	57082		KNOB, SLEEVE
857	331532		NUT, PUSH
860	313712		EYE BOLT, 3/8-16X2.00
861	148		GROMMET, Eyelet
863	71062		WASHER
864	71045		NUT, HEX JAM 3/8-16
870	333946E701		BRACKET, CHUTE ROTATE
871	340720		BOLT, CARRIAGE 5/16-18X.75
872	71071		WASHER, FLAT .349X.69X.066
873	71060		WASHER .328X.60X.09
874	71037		NUT, HEX 5/16-18

Clearing Stick

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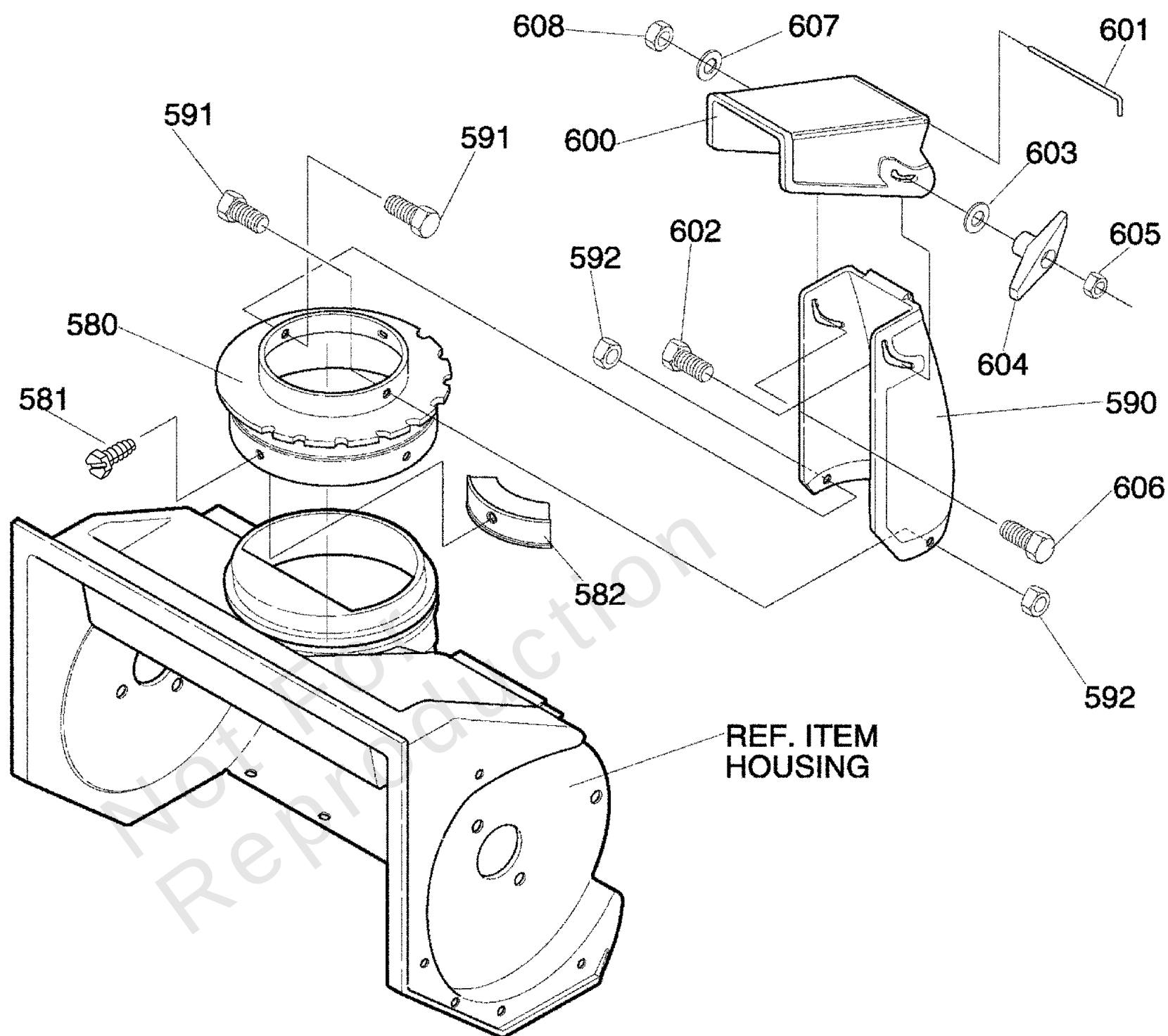
Clearing Stick

REF NO	PART NO	QTY	DESCRIPTION
766	304362		CLIP, RETAINER
767	414291		SCREW
768	997319		NUT
769	304361		STICK, CLEARING

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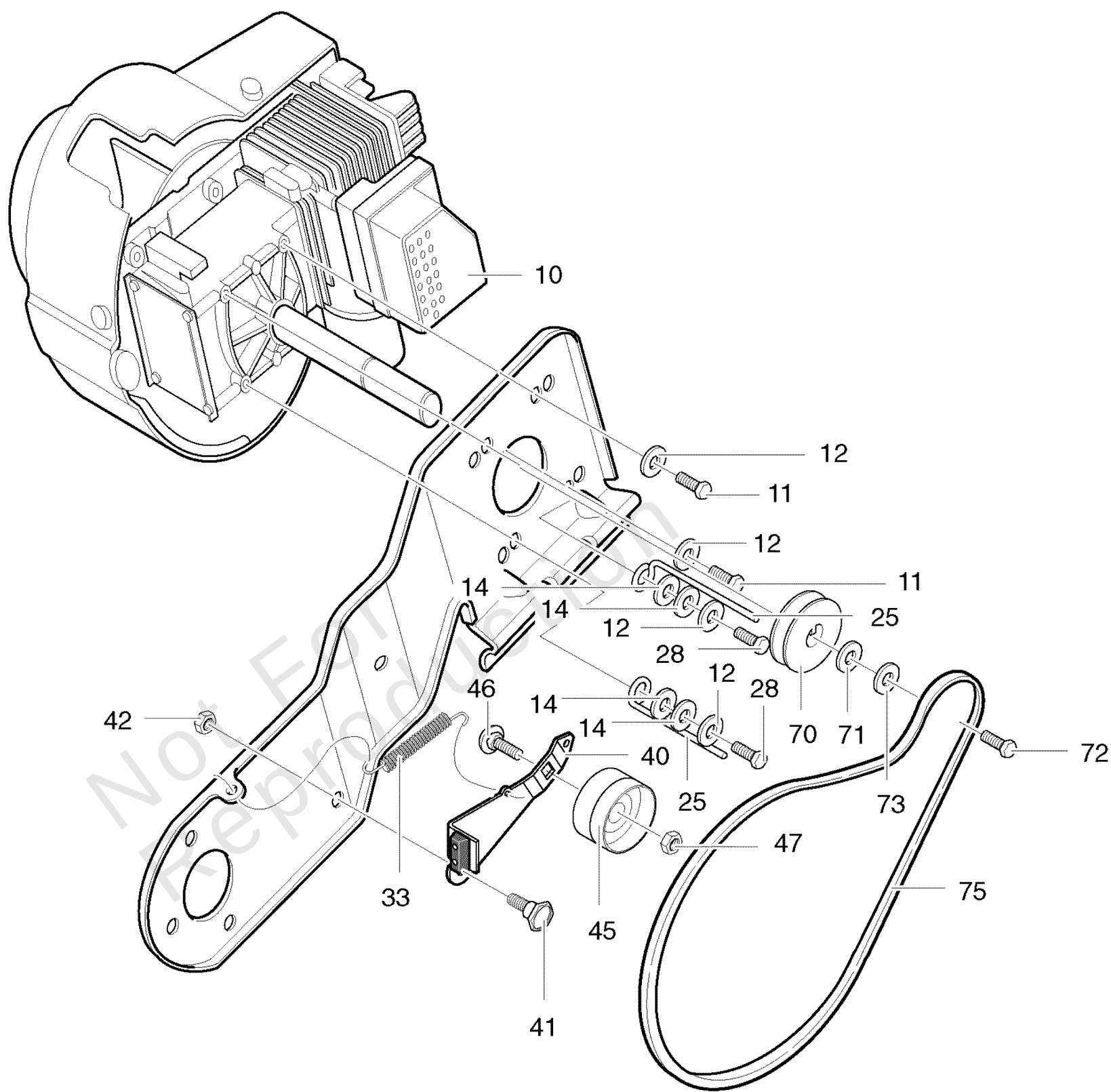
Discharge Chute

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 620301x61NC



Discharge Chute

REF NO	PART NO	QTY	DESCRIPTION
580	314239		RING, CHUTE
581	711752		SCREW, #10X.50
582	577021		GUIDE, CHUTE
590	334234		CHUTE, LOWER
591	313686		SCREW 1/4-20X.50
592	15X143		NUT, CNTRLK 1/4-2 YZ
600	325847		CHUTE, UPPER
601	308931		WIRE, HINGE
602	302843		BOLT, CARRIAGE 5/16-18X1.25
603	71071		WASHER, FLAT .349X.69X.066
604	57171		KNOB, T
605	71037		NUT, HEX 5/16-18
606	578088		SCREW, 5/16-18 x 0.75
607	71071		WASHER, FLAT .349X.69X.066
608	71391		NUT, HEX 5/16-18



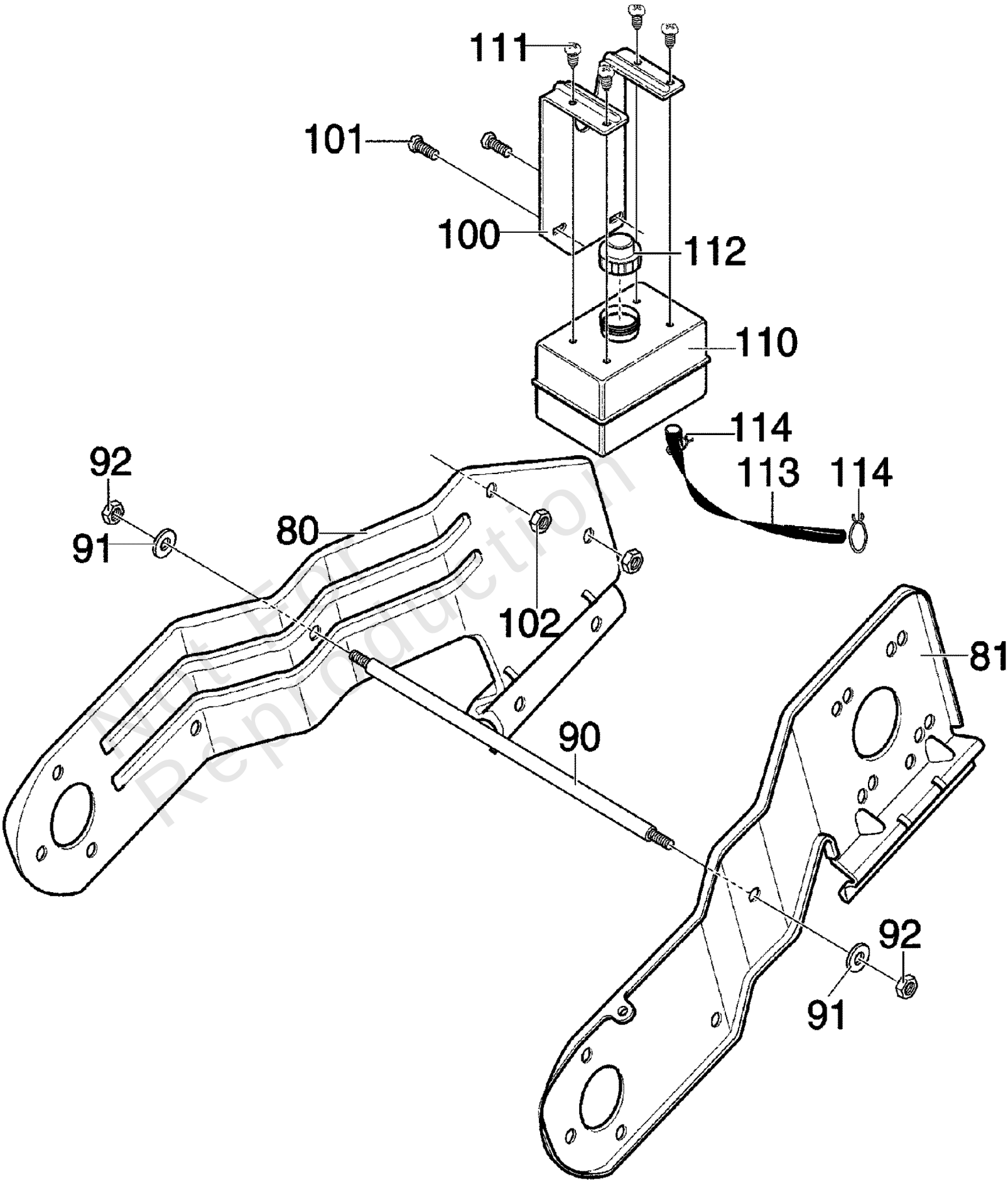
Engine Assembly

REF NO	PART NO	QTY	DESCRIPTION
10	-----		ENGINE
11	313676		SCREW, 5/16-18 x 0.75
12	71060		WASHER
14	71071		WASHER, FLAT
25	313440		GUIDE, BELT
28	710312		SCREW
33	339017		SPRING, IDLER BRAKE
40	1501013		ASSY, IDLER BRAKE ARM
41	333594		BOLT
42	71391		NUT, 5/16-18
45	48924		PULLEY, IDLER
46	45892		BOLT, CARRIAGE
47	590		NUT
70	338849		PULLEY, ENGINE
71	25840		WASHER, BELLEVEILLE
72	181595		SCREW, 5/16-24 x .75
73	71060		WASHER, SPLTLK
75	37X132		BELT, V 3L 34.8"
--	F-041023C		OPERATOR'S MANUAL

Frame Components Assembly

Note: Unless noted otherwise, use the standard torque specifications

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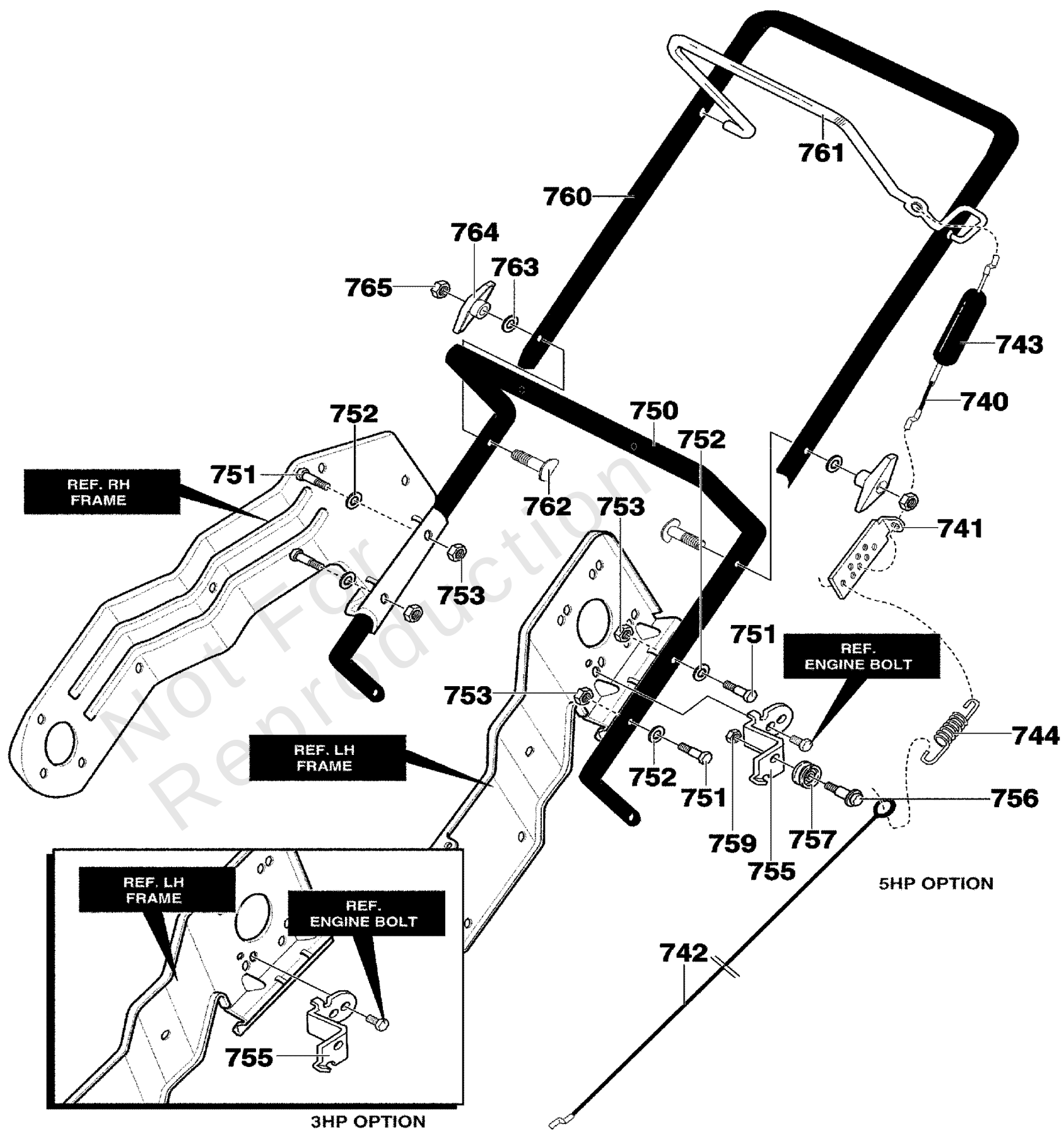
Frame Components Assembly

REF NO	PART NO	QTY	DESCRIPTION
80	760272E701		FRAME SIDE SUPPORT RH
81	760271E701		FRAME SIDE SUPPORT LH
90	760169		ROD, SUPPORT
91	71063		WASHER
92	71044		NUT, 3/8-16 HEX
100	578093E701		BRACKET, GAS TANK
101	302628		SCREW, 1/4-20X.75
102	15X143		NUT, 1/4-20
110	55381		TANK, FUEL
111	313681		SCREW, 1/4-14X.88
112	315433		CAP, GAS-BLACK
113	327290		TUBING 11.50 IN.
114	323387		CLAMP, FUEL LINE

Handle Assembly

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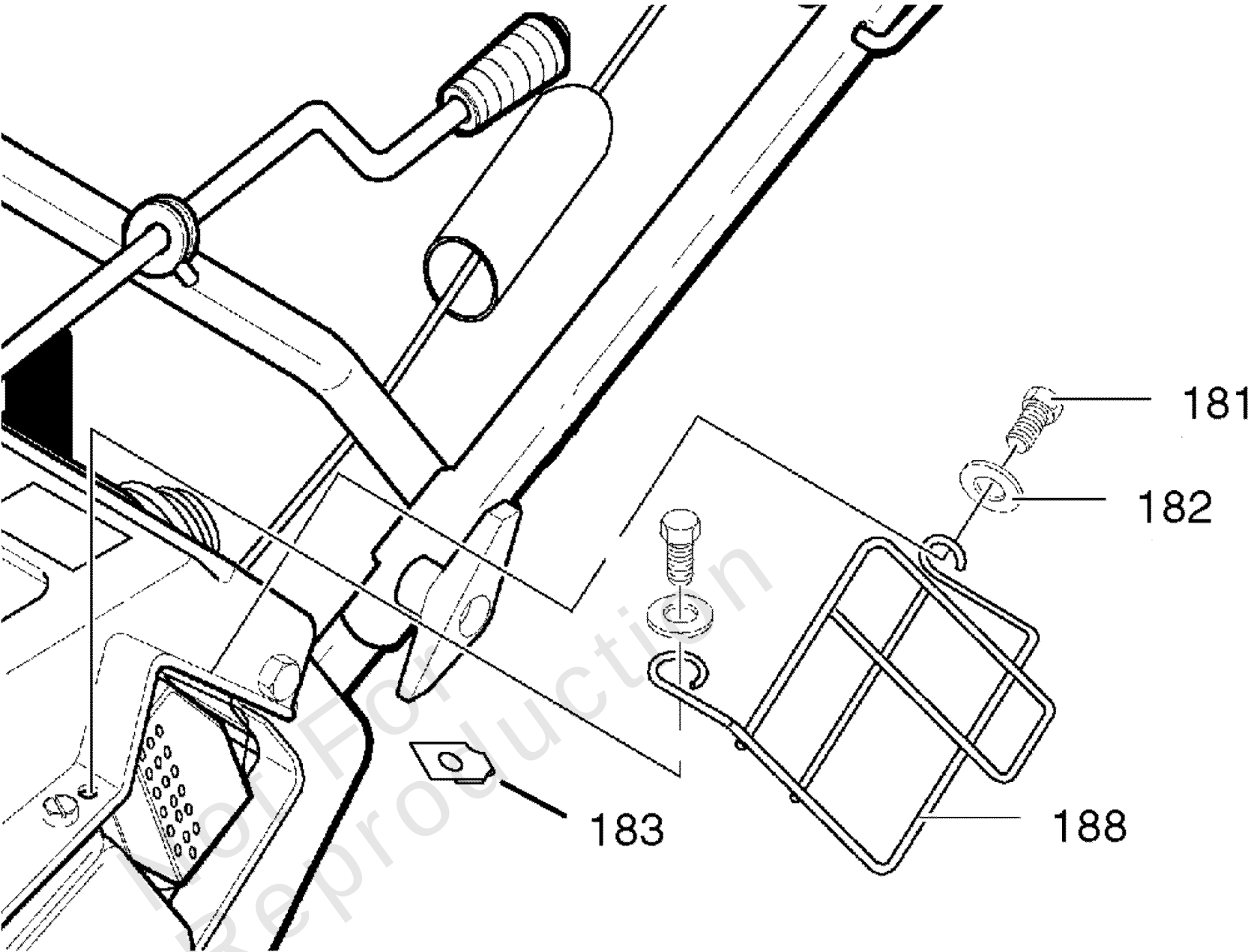
Handle Assembly

REF NO	PART NO	QTY	DESCRIPTION
740	760774		CABLE, UPPER
741	313441		BRACKET, CABLE ADJ
742	760773		CABLE, LOWER CONTROL
743	308146		BOOT, CLUTCH SPRING
744	313471		SPRING, EXTENSION
750	313487E701		HANDLE, LOWER
751	313674		SCREW, 1/4-20X1.25
752	71067		WASHER, FLAT
753	15X143		NUT, 1/4-20 YZ
755	761486E701		BRACKET, CABLE
756	712234		BOLT
757	39298		PULLEY
759	15X143		NUT, 1/4-20
760	336453E701		UPPER HANDLE
761	313308E701		BAIL, CONTROL
762	337584		BOLT
763	311936		WASHER, FORM
764	57171		KNOB, T 3.00 WD
765	71037		NUT, 5/16-18

Muffler Guard

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Muffler Guard

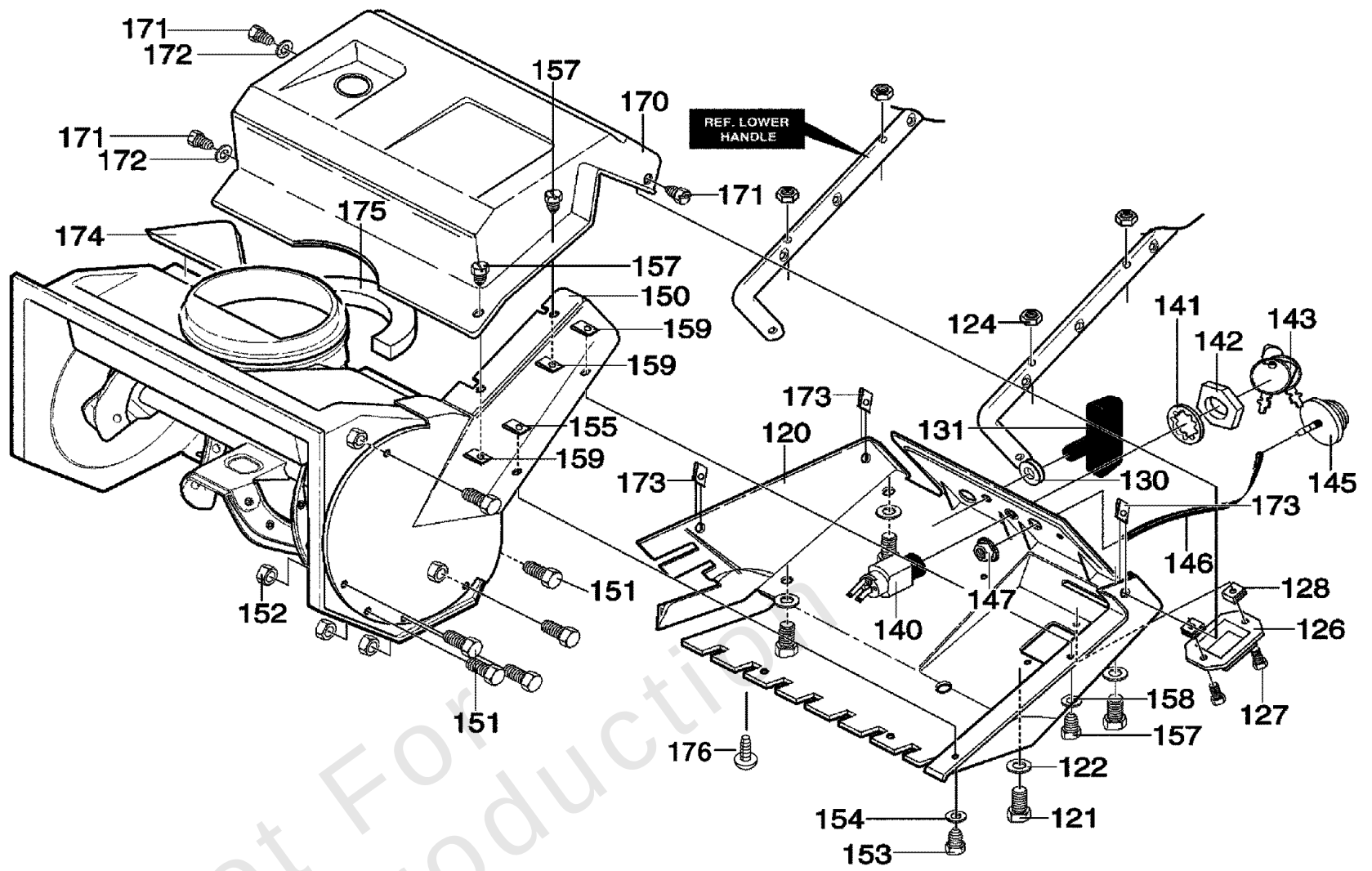
REF NO	PART NO	QTY	DESCRIPTION
180	57139		GUARD, MUFFLER -EXPT
181	313685		SCREW
182	71067		WASHER, FLAT
183	578107		NUT, TINNERMAN 1/4-20

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Top Cover Assembly

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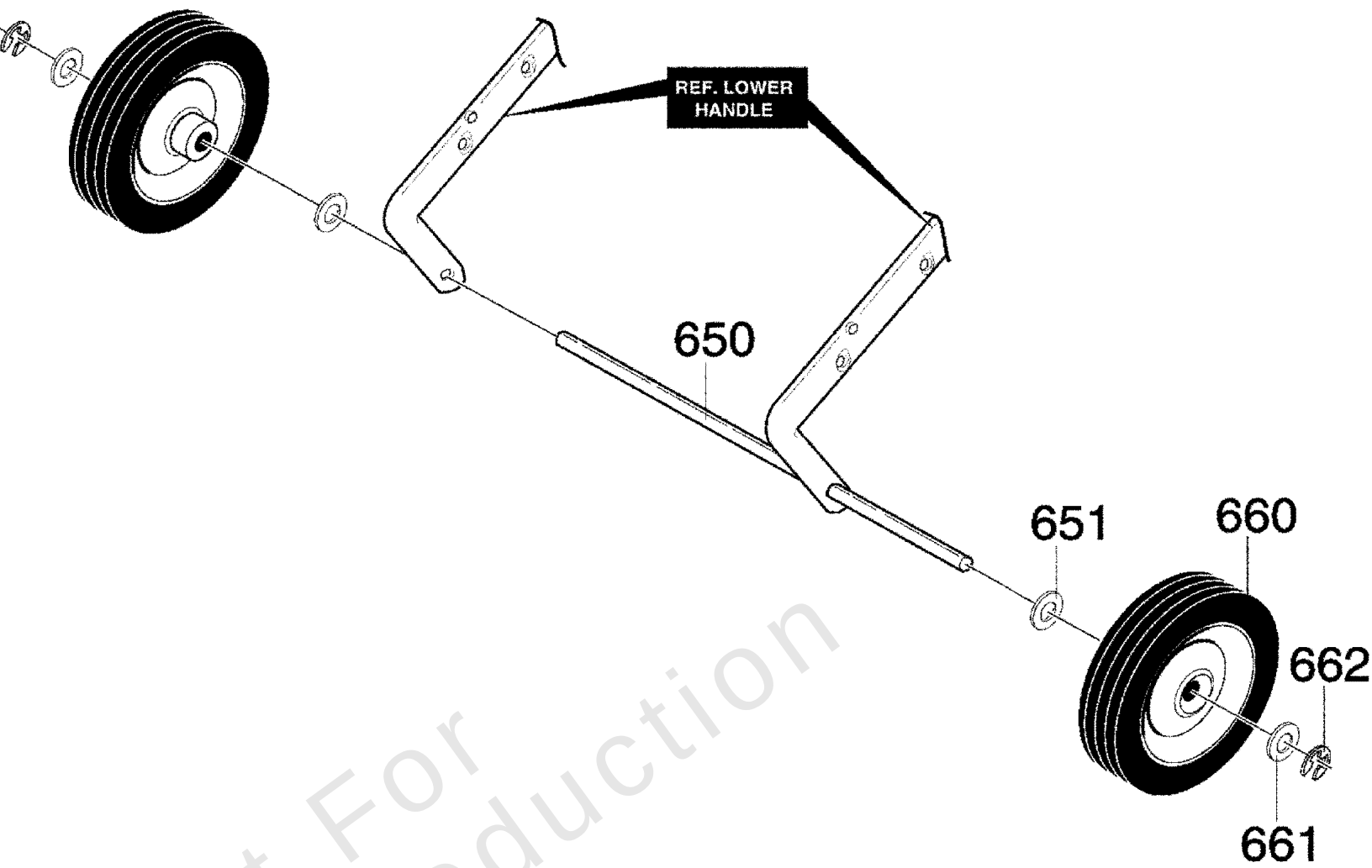
Top Cover Assembly

REF NO	PART NO	QTY	DESCRIPTION
120	302265		COVER, BOTTOM
121	313674		SCREW, 1/4-20X1.25
122	71067		WASHER, FLAT .281X.63X.065
124	15X143		NUT, 1/4-20 YZ
126	326212		COVER, CARB
127	313685		SCREW, 1/4-14X.75
128	578109		NUT, 1/4-10 SPEED J TYPE
130	57587		GROMMET & WASHER, ROPE GUIDE
131	333643		KNOB, STAND TEE
140	56992		SWITCH, IGNITION
141	313683		WASHER
142	300193		NUT, 5/8-32 ACC
143	49643		2 KEYS & RING
145	54601		PRIMER, ENGINE
146	1259		HOSE, PRIMER
147	271172		KEPS NUT, 1/4-20
150	57036		COVER, BELT
151	12342		SCREW, 10-24X.50
152	312300		NUT, #10-24
153	313686		SCREW, 1/4-20X.50
154	71067		WASHER, FLAT .281X.63X.065
155	578107		NUT, 1/4-20 TINN
157	313685		SCREW, 1/4-14X.75
158	71067		WASHER, FLAT .281X.63X.065
159	578109		NUT, 1/4-20 SPEED J TYPE
170	1501038		COVER, TOP
171	313685		SCREW, 1/4-14X.75
172	71067		WASHER, FLAT .281X.63X.065
173	578109		NUT, 1/4-10 SPEED J TYPE
174	55379		SEAL, FOAM
175	55380		SEAL, STRIP CHUTE & GAS SEAL
176	26X292		SCREW 10-14 x 0.63

Wheels

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Wheels

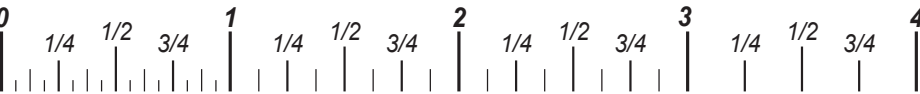
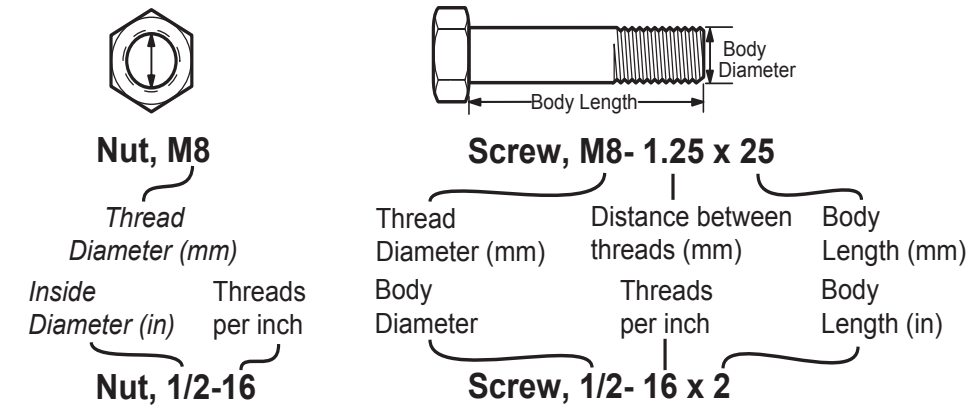
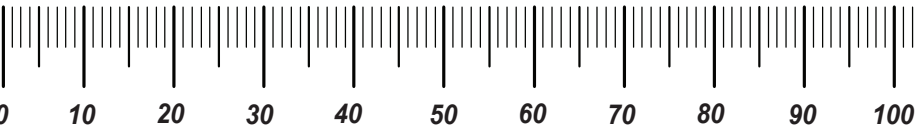
REF NO	PART NO	QTY	DESCRIPTION
650	1501923		AXLE SHAFT
651	583409		WASHER, FLAT .391X1.00X1.25
660	760713		TIRE & RIM
661	583409		WASHER, FLAT .391X1.00X.125
662	577598		RING, RET E

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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).

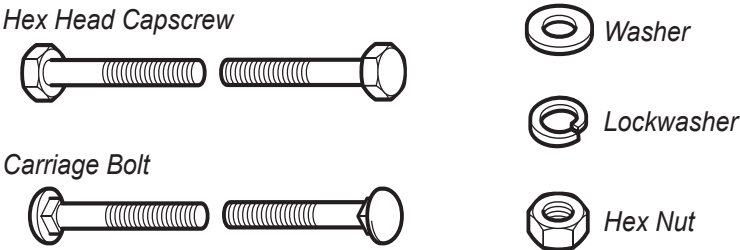
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

