



Parts Manual

Mfg. No: 621450x4E
Single Stage Snow Thrower (2001)

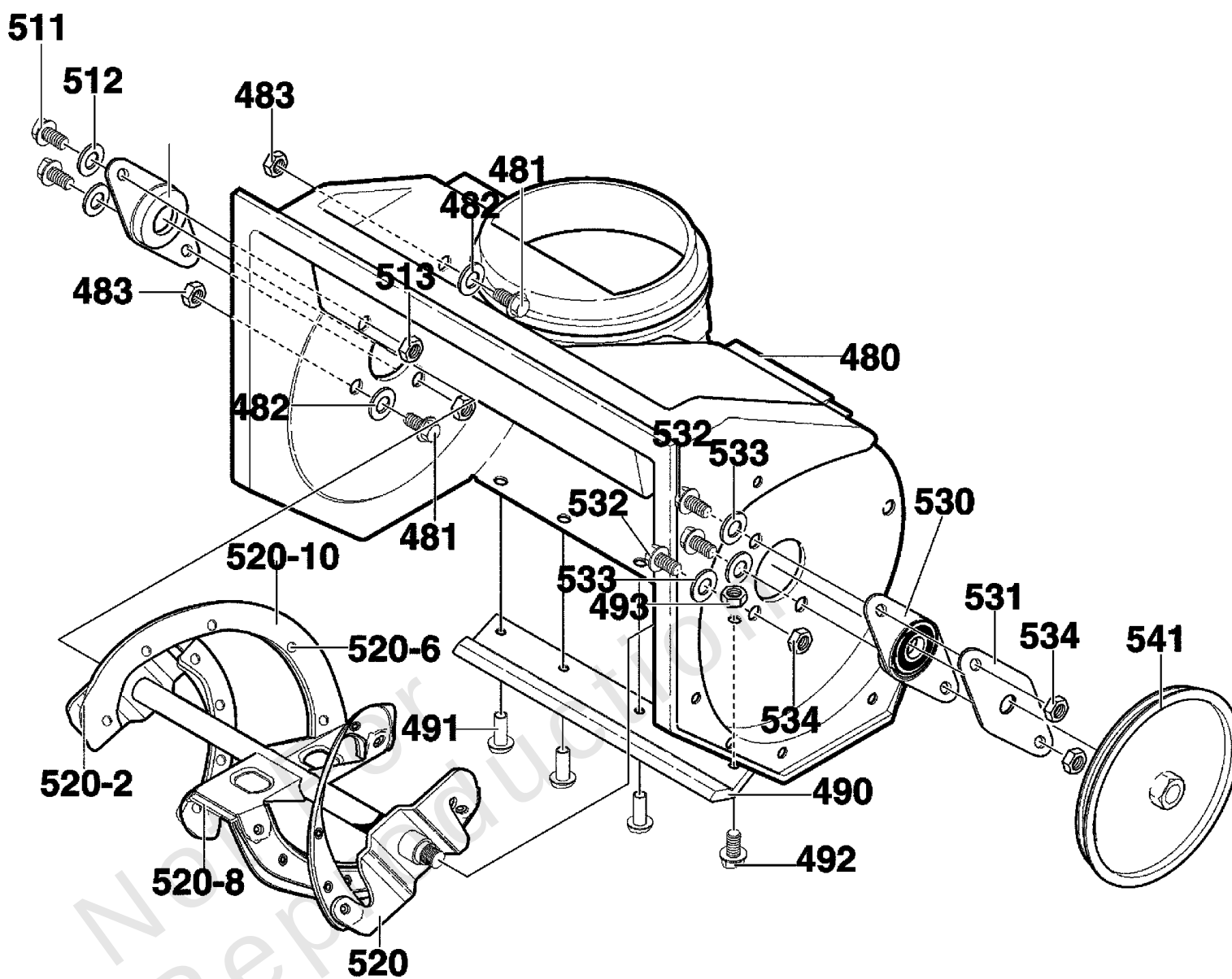
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Auger Housing

Note: Unless noted otherwise, use the standard torque specifications

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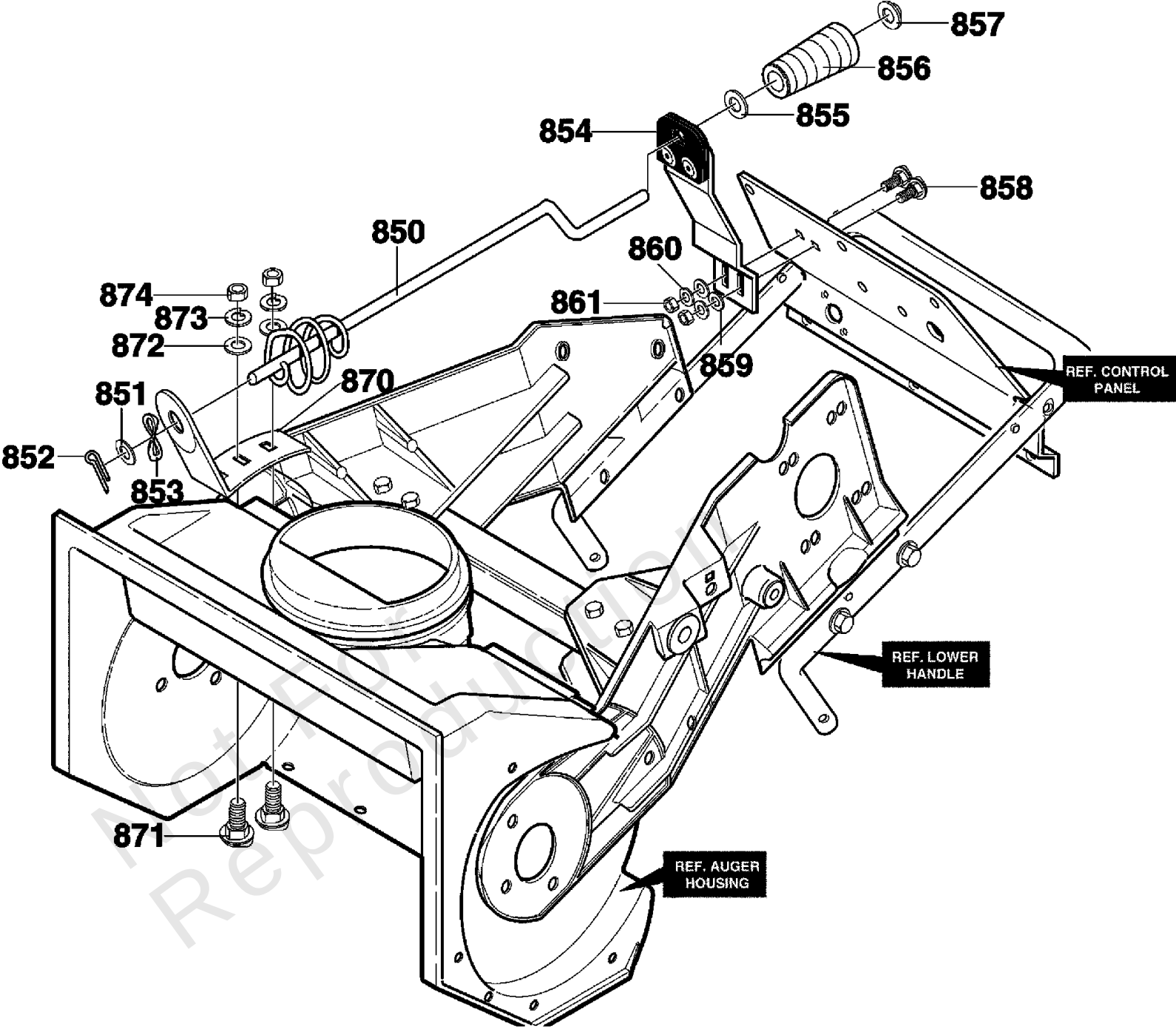
Auger Housing

REF NO	PART NO	QTY	DESCRIPTION
480	340091MA		HOUSING, ASSY
481	302628MA		SCREW, 1/4-20X .75 HH
482	71067MA		WASHER, FLAT .281X.63X.065
483	782585		NUT, 1/4-20 REGHEXCTRLK
490	55323MA		BLADE, SCRAPER
491	577707		RIVET, OVSET
492	302628MA		SCREW, 1/4-20X .75 HH
493	46931MA		NUT, CNTRLK 1/4-20
510	577023MA		BRNG, FLNG
511	710263		SCREW, 1/4-20X1.00
512	71067MA		WASHER, FLAT .281X.63X.065
513	302635		NUT, CNTRLK 1/4-20
520	327072MA		AUGER, ASSY
520-2	302565MA		BLADE, AUGER
520-6	49838		RIVET
520-8	335992MA		BLADE,CENTER <57121
520-10	307049		AUGER & BLADE SUPPORT
530	583459MA		PLATE&BEARING ASY
531	334287MA		PLATE, RETAINER
532	180018		SCREW, 1/4-20X.63
533	71067MA		WASHER, FLAT .281X.63X.065
534	782585		NUT, 1/4-20 REGHEXCTRLK
541	338965MA		PULLEY, V3L 6.00

Chute Rod Assembly

Note: Unless noted otherwise, use the standard torque specifications

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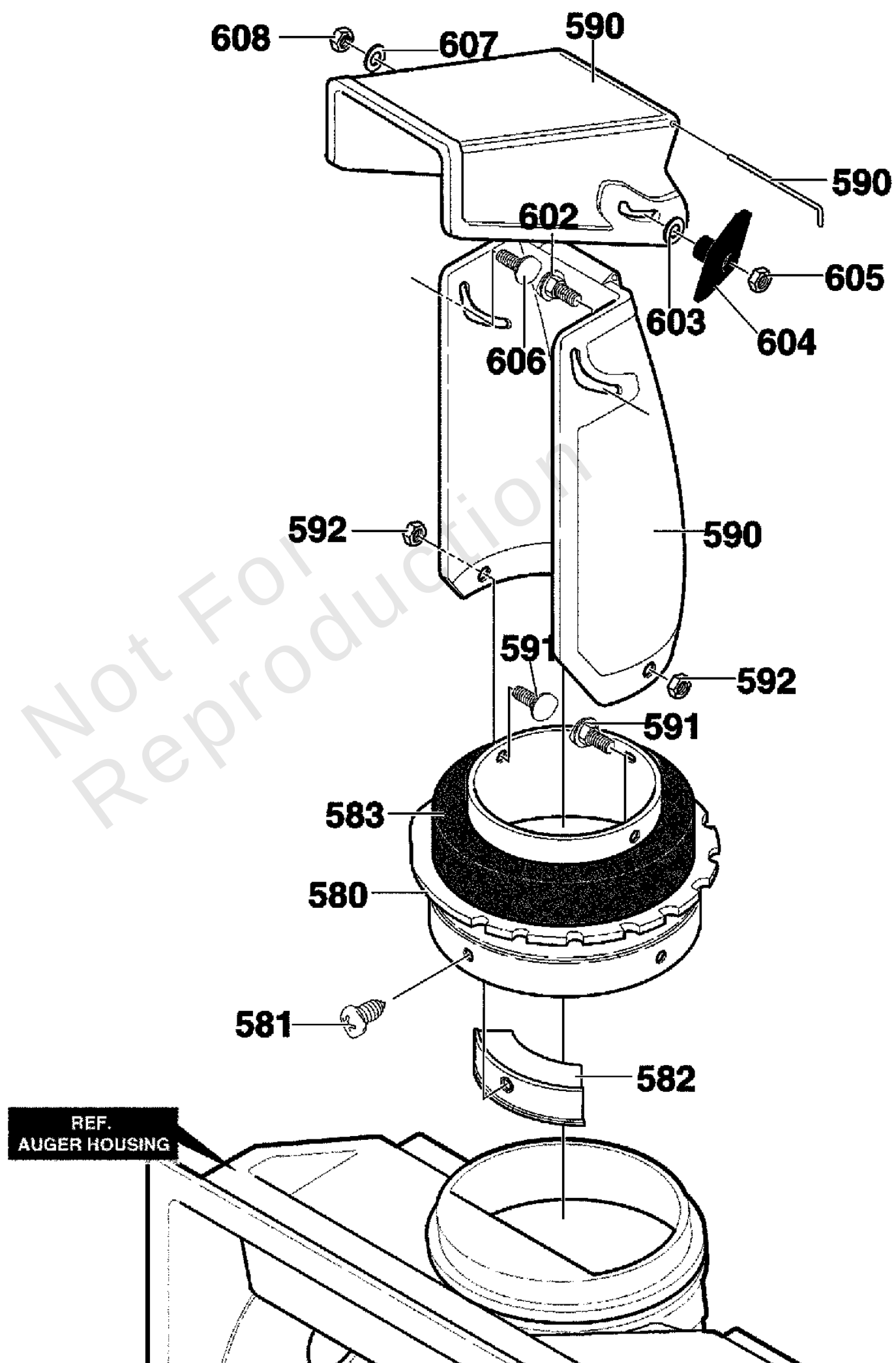
Chute Rod Assembly

REF NO	PART NO	QTY	DESCRIPTION
850	337941		ROD, CHUTE
851	71072		WASHER, FLAT .406X.81X.066
852	71082		PIN, COTTER
853	313431MA		WASHER, CURVED SPRING
854	340186		ASSY, CHUTE CRANK
855	71072		WASHER, FLAT .406X.81X.066
856	57082MA		KNOB, SLEEVE
857	331532MA		NUT, PUSH, FITS 3/8 D
858	340715		BOLT,1/4-20X.63 CARR.
859	120393		WASHER, FLAT .344X.69X.065
860	120638		WASHER, .31X.58X.08
861	120375		NUT, 1/4-20 REGHEX
870	333946-853		BRKT, CHUTE ROTATE
871	340720MA		BOLT, 5/16-18X.75 CARR
872	120393		WASHER, FLAT .349X.69X.066
873	120638		WASHER, SPTLK .31X.58X.08
874	120376		NUT, 5/16-18 REGHEX

Discharge Chute

Note: Unless noted otherwise, use the standard torque specifications

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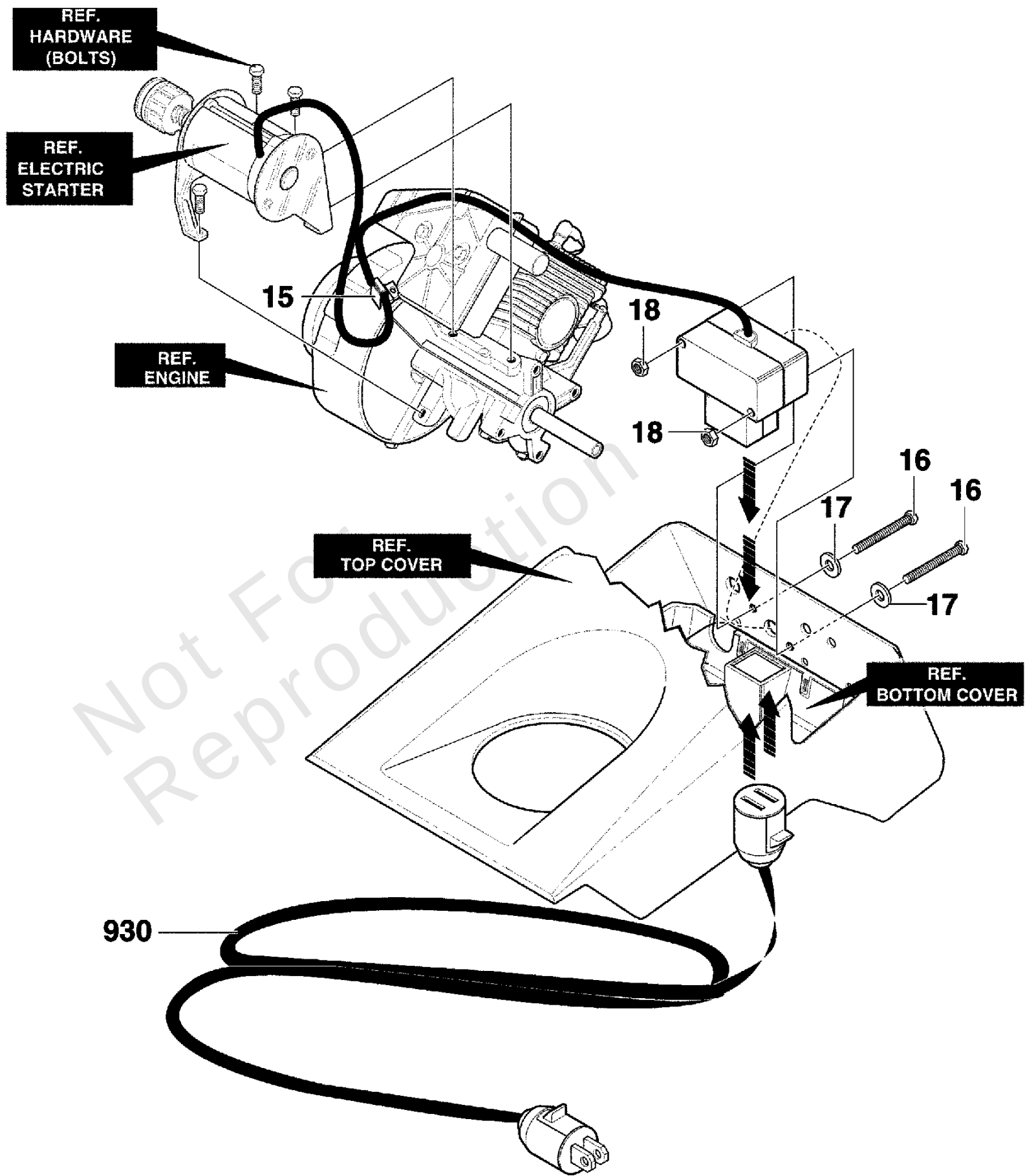
Discharge Chute

REF NO	PART NO	QTY	DESCRIPTION
580	333859MA		RING, CHUTE
581	711752MA		SCREW, #10X.50
582	577021MA		GUIDE, CHUTE
583	762173MA		DONUT FOAM
590	762222MA		CHUTE ASSY.
591	180016MA		SCREW 1/4-20X.50
592	46931MA		NUT, CNTRLK 1/4-20
602	302843MA		BOLT, 5/16-18X1.25 CA
603	120393		WASHER, FLAT .349X.69X.066
604	13527		KNOB, T
605	71037		NUT, 5/16-18 REGHEX
606	578088MA		SCREW, 5/16-18X .75SL
607	46931MA		WASHER, FLAT .349X.69X.066
608	1498		NUT, 5/16-18 REGHEXCTRLK

Electric Starter

Note: Unless noted otherwise, use the standard torque specifications

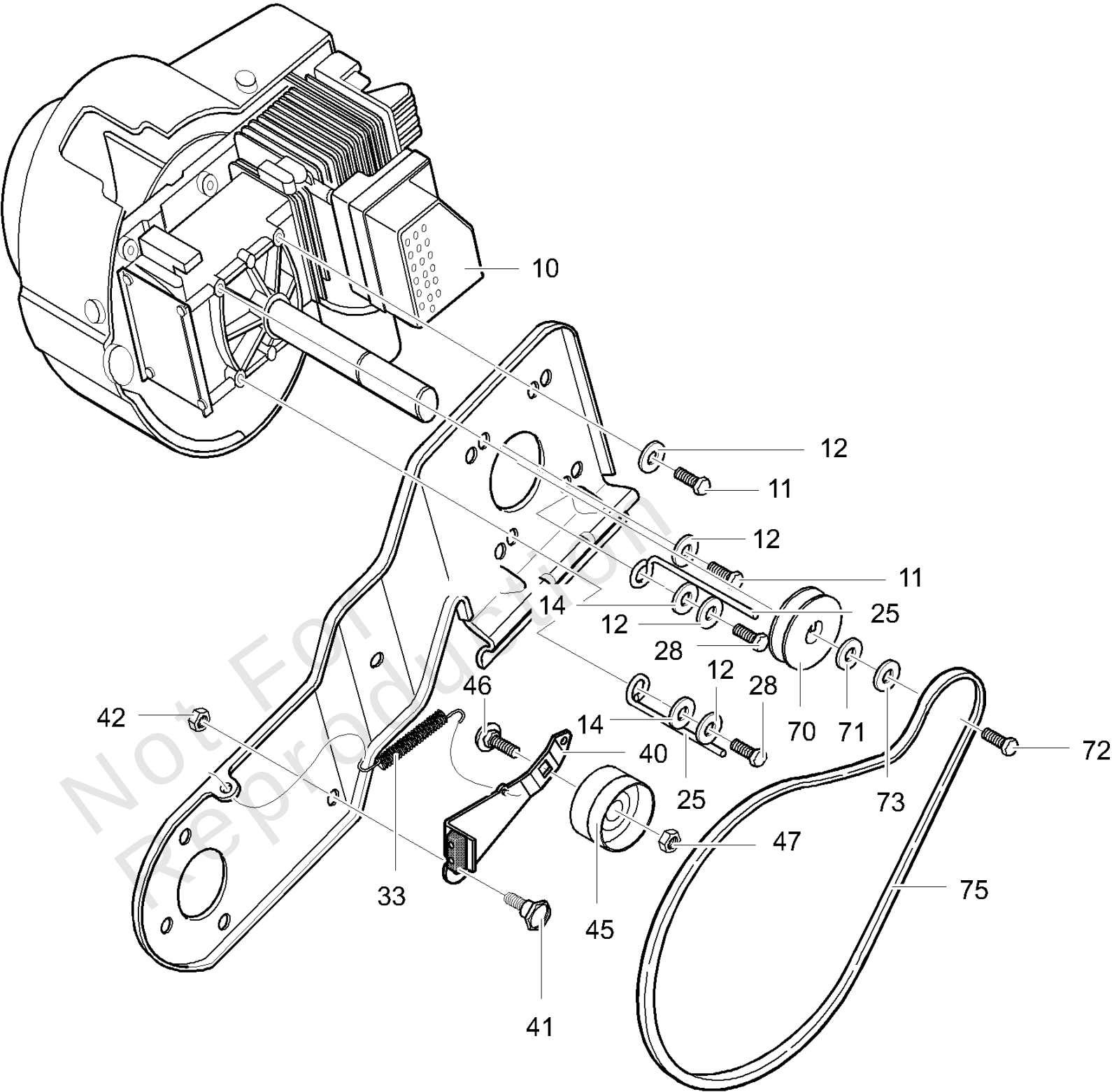
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Electric Starter

REF NO	PART NO	QTY	DESCRIPTION
15	57569		RETAINER
16	311633MA		SCREW #8-32X3.00
17	414106		WASHER, FLAT .188X.38X.040
18	271163MA		NUT, #8-32X3.00
930	056023		CORD EXTENSION

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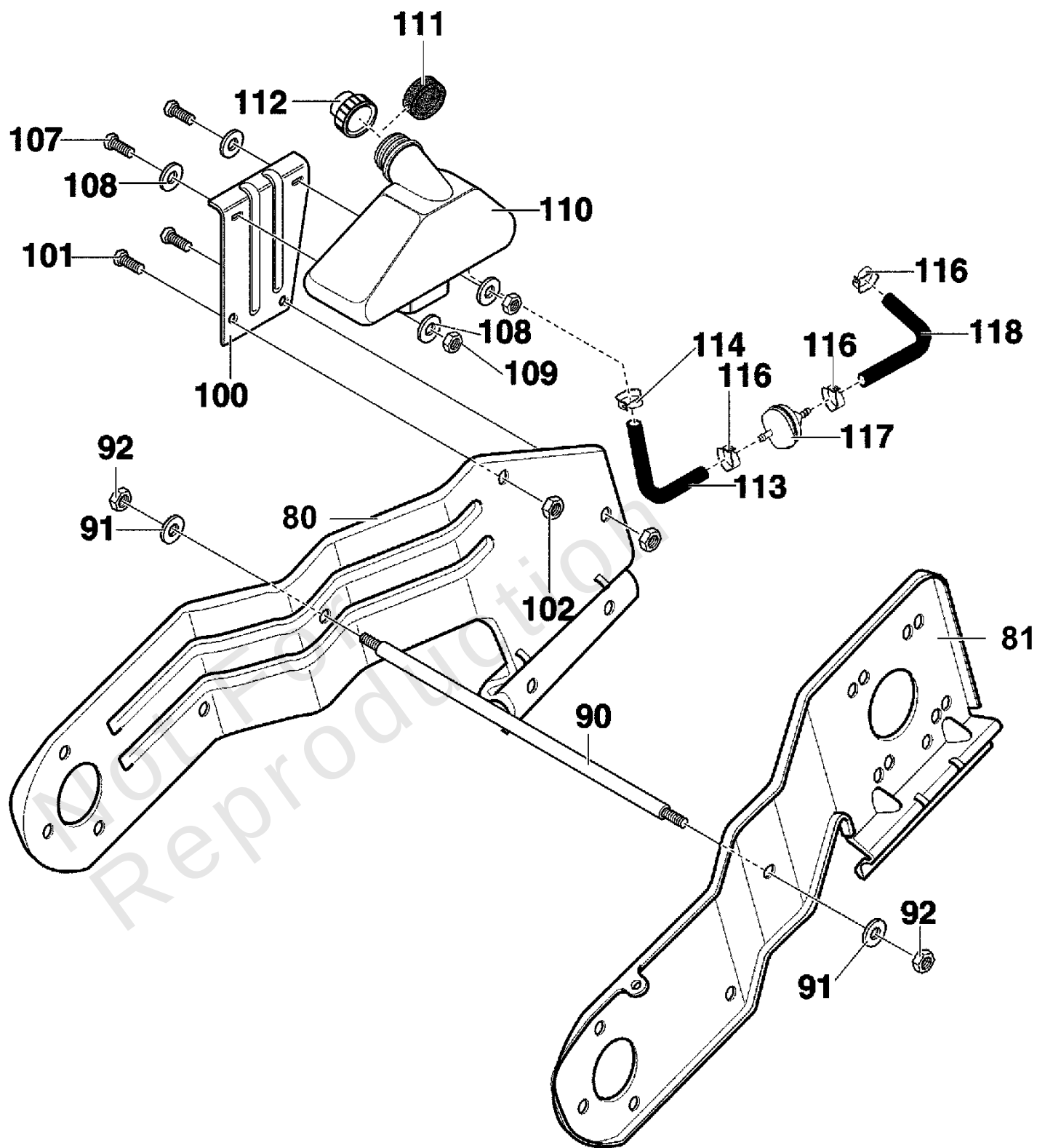
Engine Assembly

REF NO	PART NO	QTY	DESCRIPTION
10	-----		ENGINE -(See Engine Manual)
11	180077MA		SCREW, 5/16-18 x 0.75
12	018X16MA		WASHER, SPTLK
14	120393		FLATWASHER
25	313440MA		BELT GUIDE
28	710312		SCREW, 5/16-18 x 1.00
33	339017MA		SPRING, IDLER BRAKE
40	1501013MA		IDLER ARM
41	333594MA		BOLT-SHD.500X.177 .31
42	1498		NUT
45	48924MA		PULLEY, IDLER
46	45892MA		BOLT
47	41529MA		NUT, 3/8-16 HXCTRLKJA
70	338849MA		PULLEY
71	25840		WASHER
72	181595		SCREW, 5/16-24 x .75
73	018X16MA		WASHER
75	760928MA		BELT
--	F-011002M		BOOK, INSTRUCTION

Frame Components Assembly

Note: Unless noted otherwise, use the standard torque specifications

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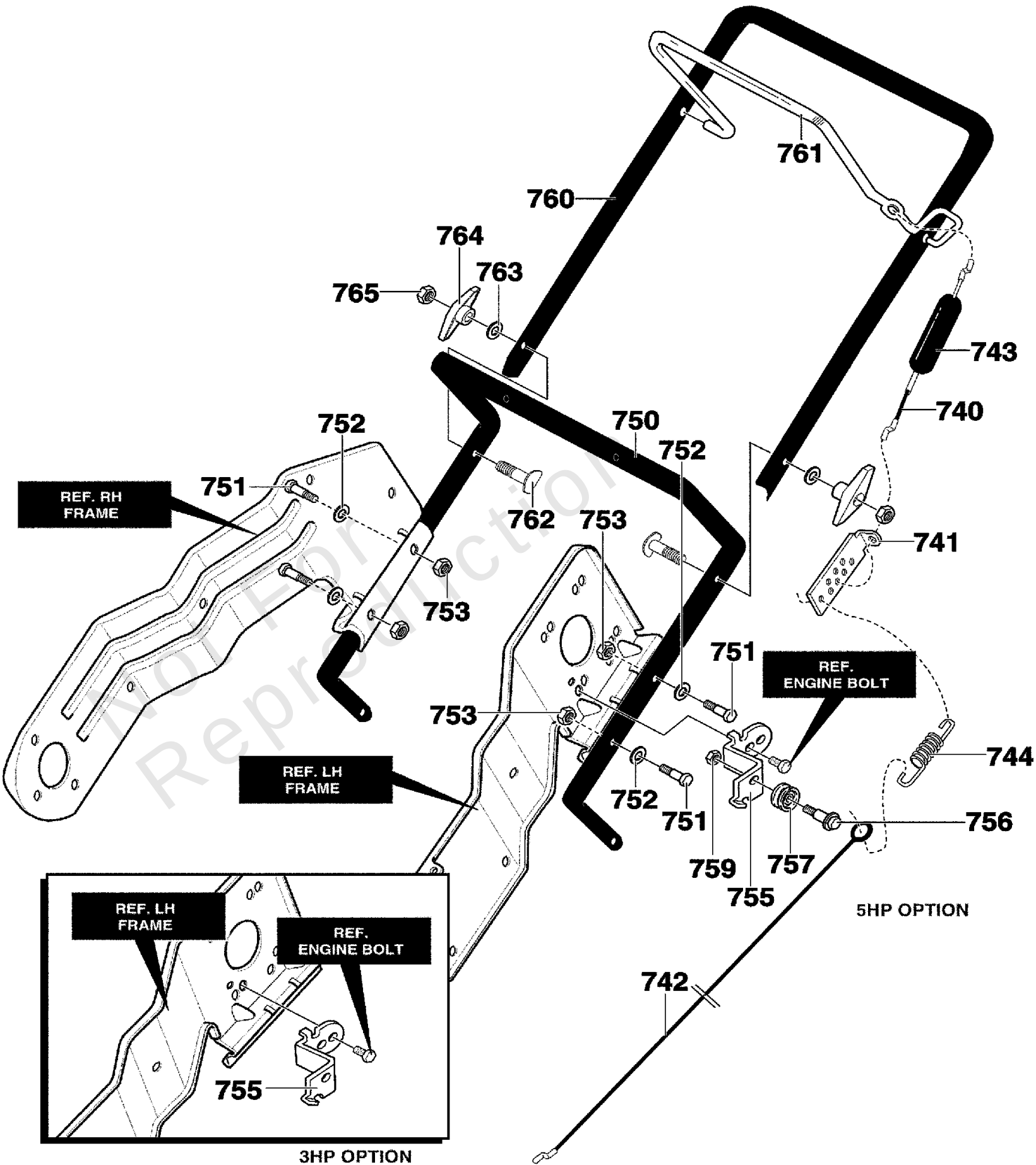
Frame Components Assembly

REF NO	PART NO	QTY	DESCRIPTION
80	760272-853		FRAME, SIDE SUPT STEEL RH
81	760271-853		FRAME, SIDE SUPT STEEL LH
90	760168		ROD, SUPPORT
91	018X31MA		WASHER, HVSPTLK
92	780072MA		NUT, 3/8-16 REGHEX
100	333749-853		BRACKET, GAS TANK
101	180020		SCREW, 1/4-20X.75
102	782585		NUT, 1/4-20 REGHEXCTRLK
107	302628MA		SCREW, 1/4-20X .75 HH
108	71067MA		WASHER, FLAT
109	782585		NUT, 1/420 REGHEXCTRLK
110	333739MA		TANK, FUEL
111	762224		RING, FOAM FUEL TANK
112	340299MA		CAP, GAS
113	323363MA		TUBING.25X.47X 8.00 G
114	47345		CLAMP, HOSE SCREW
116	323387MA		CLAMP, HOSE
117	56679MA		FILTER IN LINE
118	335906MA		TUBING, 6 IN.

Handle Assembly

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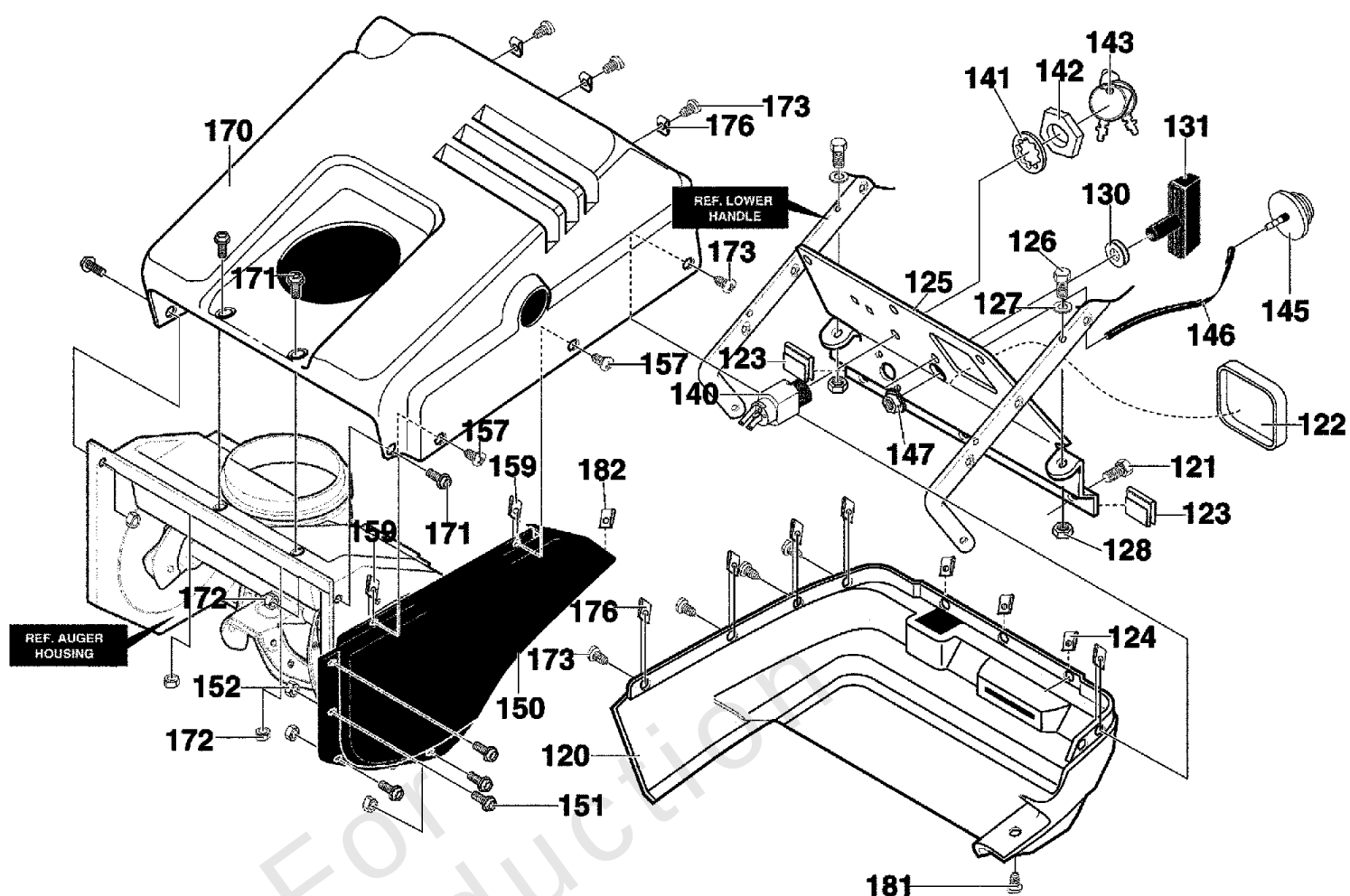
Handle Assembly

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	165X146MA		SPRING
750	333909-853		HANDLE LOWER
751	313674MA		SCREW, 1/4-20X1.25
752	71067MA		WASHER, FLAT .281X.63X.065
753	782585		NUT, 1/4-20 REGHEXCTRLK
755	761486-853		BRACKET, CABLE
756	712234MA		BOLT, .375X.375 1/4-20
757	39298		PULLEY, .906X.305
759	782585		NUT, 1/4-20 REGHEXCTRLK
760	333919-853		HANDLE, UPPER
761	313308-853		BAIL, CONTROL
762	337584MA		BOLT, 5/16-18X2.00 CU
763	311936MA		WASHER, FORM .344 ID
764	13527		KNOB,T
765	120376		NUT, 5/16-18 REGHEX

Top Cover Assembly

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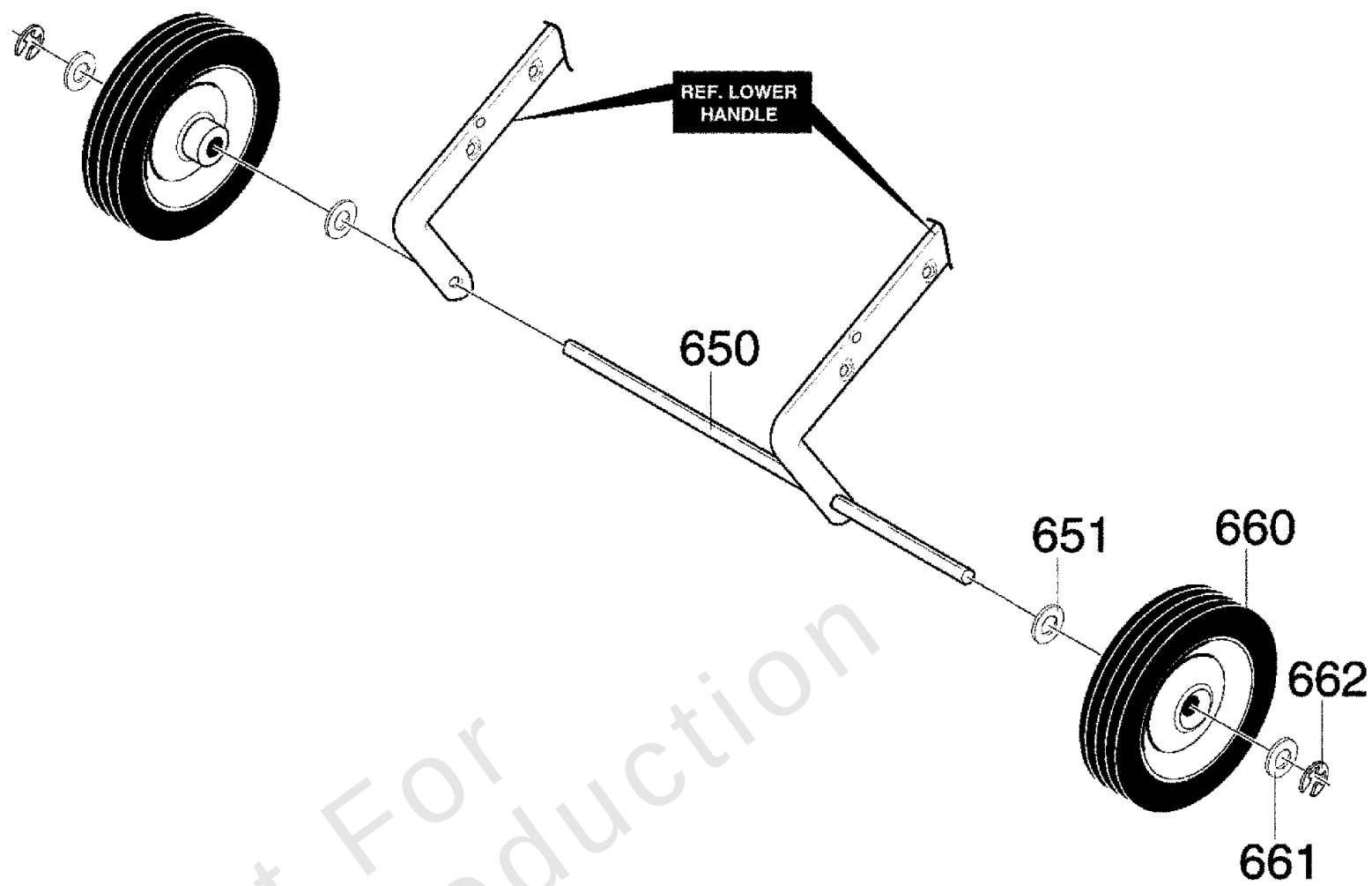
Top Cover Assembly

REF NO	PART NO	QTY	DESCRIPTION
120	340097MA		COVER, BOTTOM
121	313685MA		SCREW, 1/4-14X .75 SL
122	761538MA		PANEL, SPARK ACCESS
123	313057		CLIP, "S" TINNERMAN
124	578109MA		NUT, 1/4-10 SPEED J TYPE
125	761631-853		CONTROL PANEL
126	313674MA		SCREW, 1/4-20X1.25
127	71067MA		FLATWASHER, .281X.63X.065
128	782585		NUT, 1/4-20 REGHEXCTRLK
130	57587		GOMMET & WASHER
131	333643		KNOB T
140	56992MA		SWITCH, IGNIT.
141	313683		WASHER, REGINTLK .640X1.1X.05
142	300193MA		NUT. 5/8-32
143	49643		KEYS & RING
145	54601MA		PRIMERBULB
146	335507MA		HOSE PRIM 9.50LG
147	271172		NUT, 1/4-20 REGHEXKEPS
150	340089MA		COVER, BELT
151	274707		SCREW, 10-24X.50
152	312300MA		NUT, #10-24 REGHEXCTRLK
157	313685MA		SCREW, 1/4-14X .75 SL
159	578109MA		NUT, 1/4-10 SPEED J TYPE
170	340165		COVER, TOP
171	274707		SCREW, #10-24X.50
172	312300MA		NUT #10-24 REGHEXCTRLK
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

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Wheels

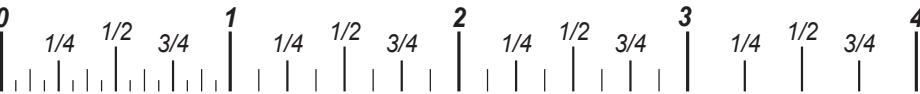
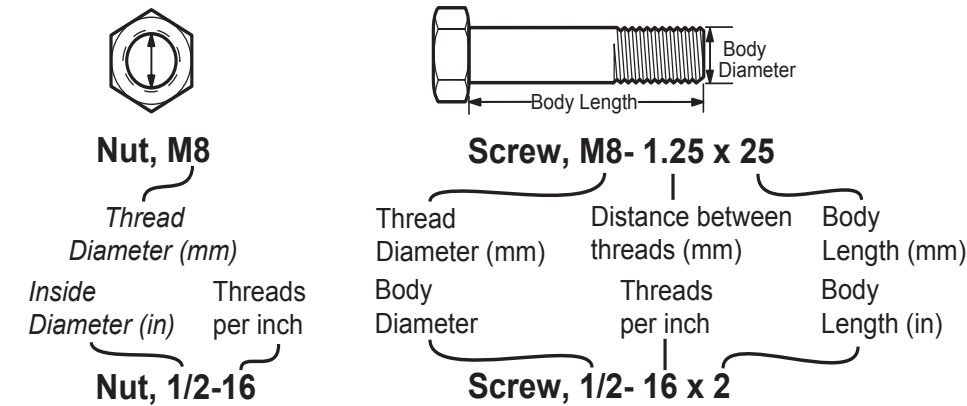
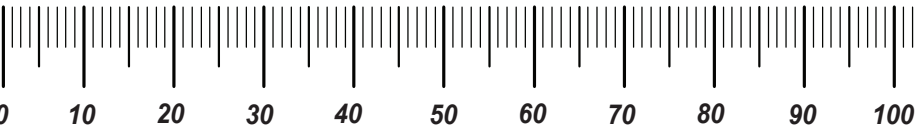
REF NO	PART NO	QTY	DESCRIPTION
650	313678MA		AXLE SHAFT
651	583409MA		WASHER, FLAT .391X1.00X1.25
660	760713MA		TIRE & RIM
661	583409MA		WASHER, FLAT .391X1.00X.125
662	577598MA		RING, RET E .30X.04TR

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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).

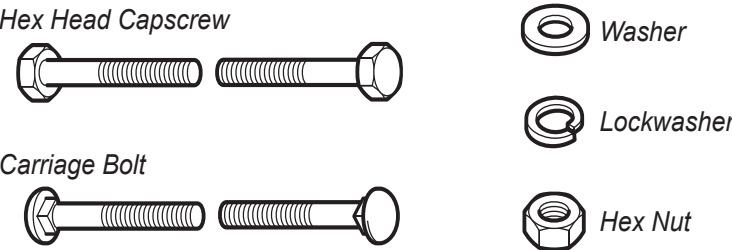
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

