



Parts Manual

Mfg. No: 629906x85A
Dual Stage Snow Thrower (2000)

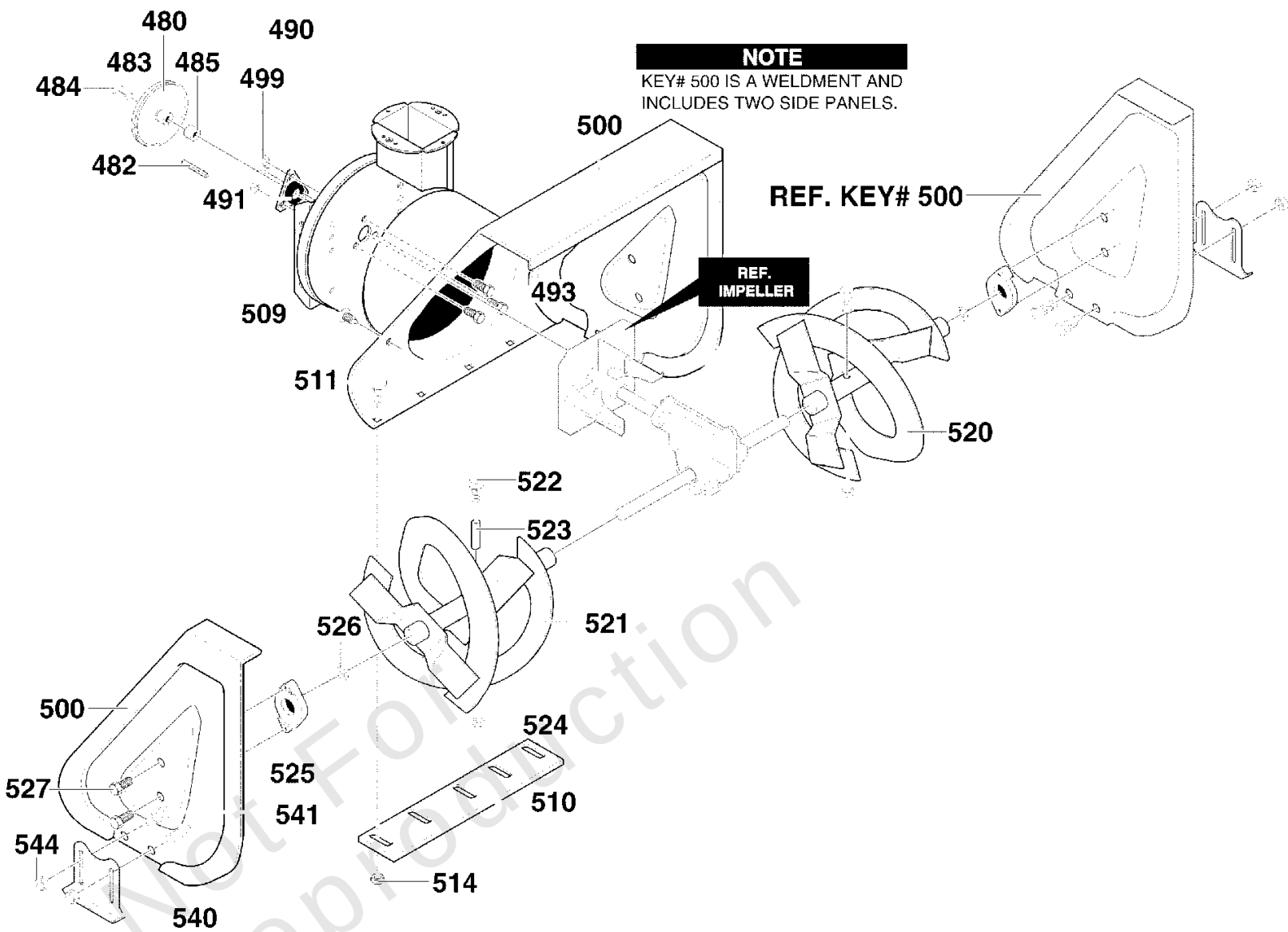
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Not For
Reproduction

Auger Housing Assembly

Note: Unless noted otherwise, use the standard torque specifications

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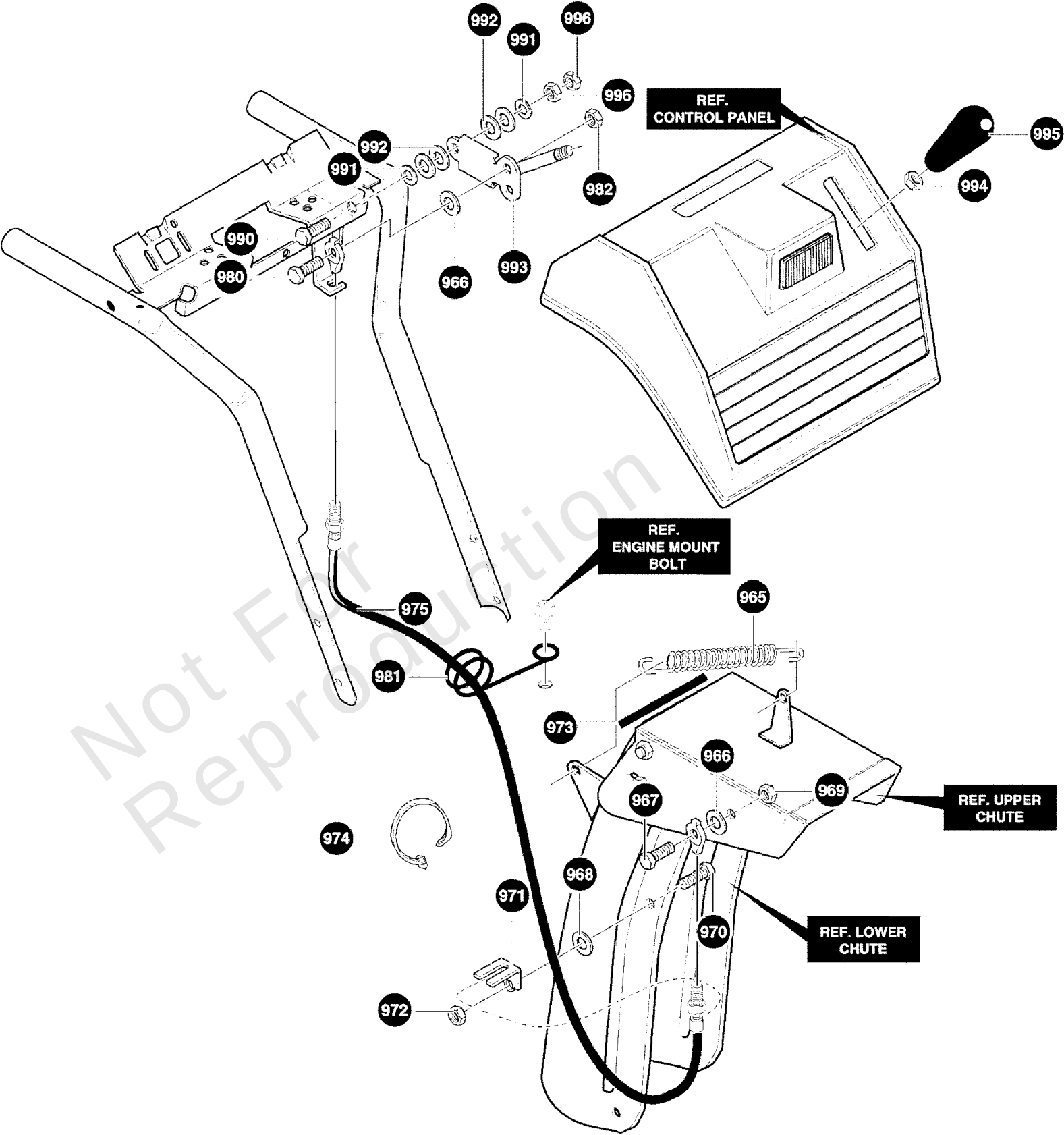
Auger Housing Assembly

REF NO	PART NO	QTY	DESCRIPTION
480	583146MA		PULLEY
482	2001022MA		KEY,SQUARE 3/16 X 3/4
483	71074		WASHER, FLAT
484	712121MA		NUT, 1/2-20
485	334514MA		SPACER, SLEEVE
490	582960		RETAINER, BALL
491	043846		BEARING, BALL
493	313676		SCREW, 5/16-18 x 0.75
499	710026		NUT, 5/16-18
500	761887-892		HOUSING, ASSY
509	760040MA		PLUG, CHRISTMAS TREE
510	760660-853		SCRAPER BLADE
511	340720MA		BOLT, 1/4-20X.75 CARR.
514	710026		NUT, 5/16-18
520	760597-853		AUGER, LH
521	760598-853		AUGER, RH
522	9524MA		SCREW, 1/4-20X1.75
523	3943MA		SPACER, SLEEVE
524	73826		NUT, 1/4-20
525	53757MA		BRNG,AUGER SHAFT MF-L
527	70984		SCREW, 5/16-18 x 0.75
540	762376-853		SKID, HEIGHT ADJUST
541	340720MA		BOLT, 5/16-18X .75
544	710026		NUT, 5/16-18

Chute Deflector

Note: Unless noted otherwise, use the standard torque specifications

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Chute Deflector

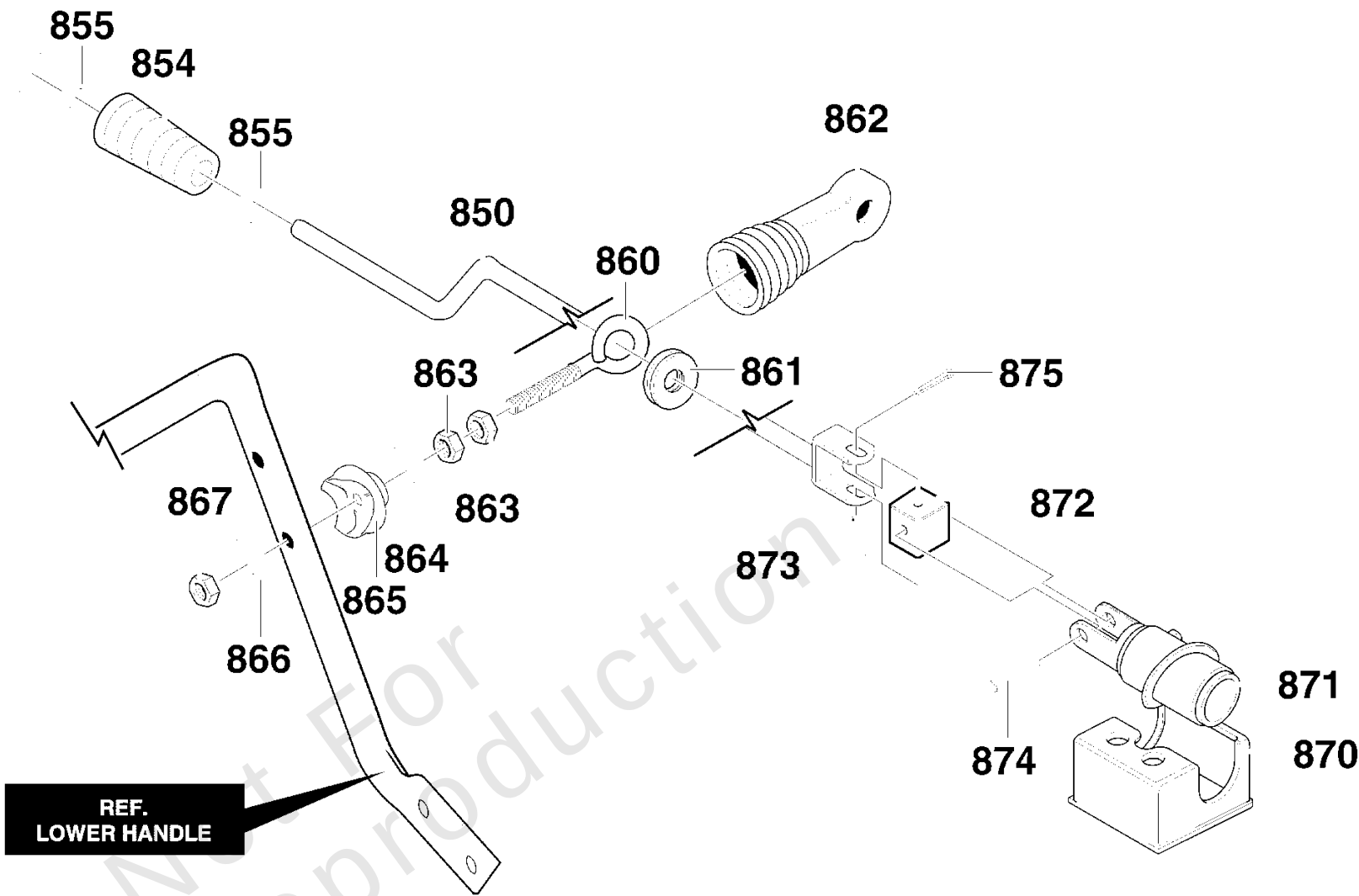
REF NO	PART NO	QTY	DESCRIPTION
965	318468MA		SPRING, TENSION RETURN
966	711666		WASHER, FLAT
967	310088MA		BOLT-SHD.250X.312 .25
968	73787MA		WASHER, FLAT .330X .
969	302635		NUT, 1/4-20
970	313676		SCREW
971	PER - 780066		BRACKET, CABLE CHUTE
972	71391		NUT, 5/16-18
973	055021		TRIM
974	760113MA		TIE, CABLE
975	761131MA		CABLE, CHUTE CONTROL
980	310088MA		BOLT-SHD.250X.312 .25
981	780220MA		WIRE FORM,REMOTE CHUT
982	302635		NUT, 1/4-10
990	4058		SCREW, 3/8-16 x 1.75
991	71072		WASHER, FLAT
992	4051MA		WASHER, SPRING
993	579040		HANDLE ASSY, SPEED CONTROL
994	71044		NUT, 3/8-16
995	306689MA		HANDLE
996	71046		NUT, 3/8-16

Chute Rod

Note: Unless noted otherwise, use the standard torque specifications

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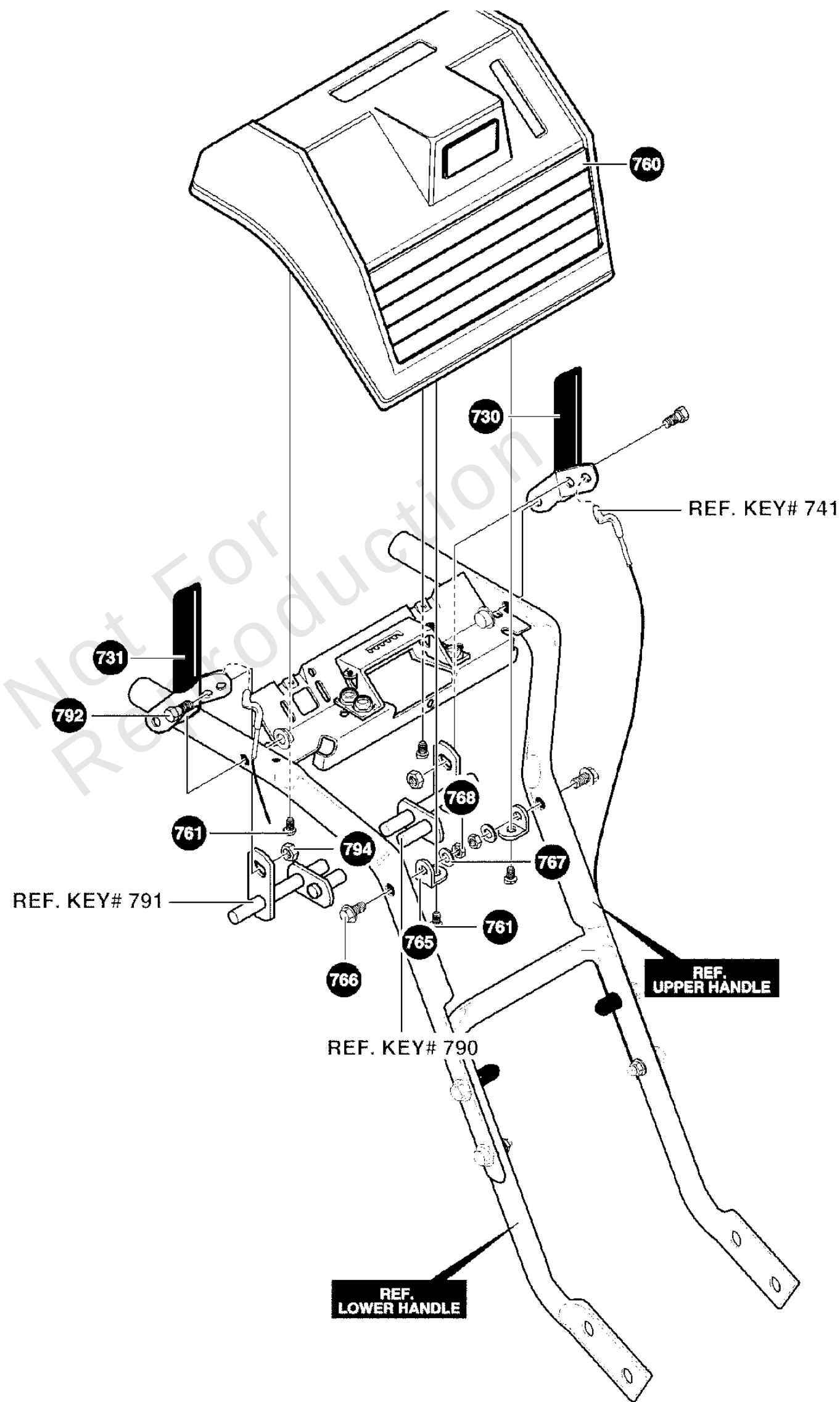
Chute Rod

REF NO	PART NO	QTY	DESCRIPTION
850	585426MA		CRANK, ASSY CHUTE
854	307399MA		HANDLE
855	309312MA		WASHER, FLAT .39 X .7
856	578159MA		E RING
860	581618MA		EYEBOLT.38-16X6.00 .6
861	148MA		GROMMET, Eyelet
862	308145MA		BOOT
863	71045		NUT, 3/8-16 HEX JAM
864	71072		FLATWASHER
865	309344MA		ADAPTER, BOOT TO HANDLE
866	71072		FLATWASHER
867	71046		NUT, 3/8-16
870	585195MA		BRACKET, WORM MTG
871	585196MA		WORM, GEAR CHUTE ROTATION
872	578063MA		BLOCK,UNIVERSAL PIVOT
873	578309MA		LF PIN, CLEVIS .25DX
874	578060MA		PIN,UNIV JOINT 3/8X1.
875	579493MA		PIN, COTTER .06X .50

Control Panel

Note: Unless noted otherwise, use the standard torque specifications

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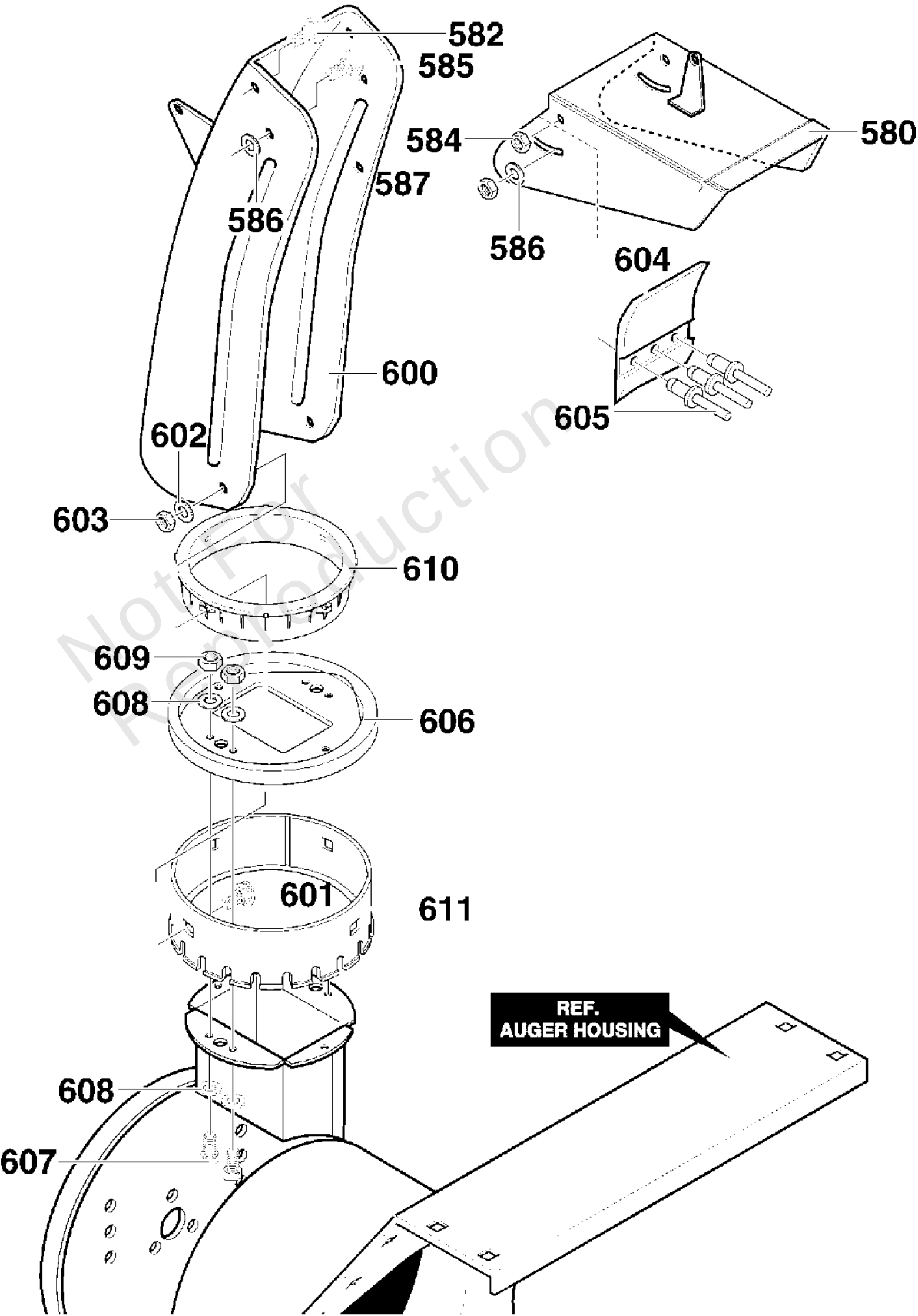


Control Panel

REF NO	PART NO	QTY	DESCRIPTION
730	578992		CLUTCH HANDLE LH
731	578993		CLUTCH HANDLE RH
760	585523		PANEL
761	316042MA		SCREW, 10X.62 UNSL-HW
765	578866-853		BRACKET, PANEL
766	302900MA		SCREW, 5/16-18 x 1.75
767	071060		WASHER, HVSPTLK
768	71037		NUT, 5/16-18
792	905531MA		BOLT, 1/4-20X .50 CAR
794	908913MA		NUT.25-20 HEX JAM NYL

Discharge Chute Assembly

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 629906x85A



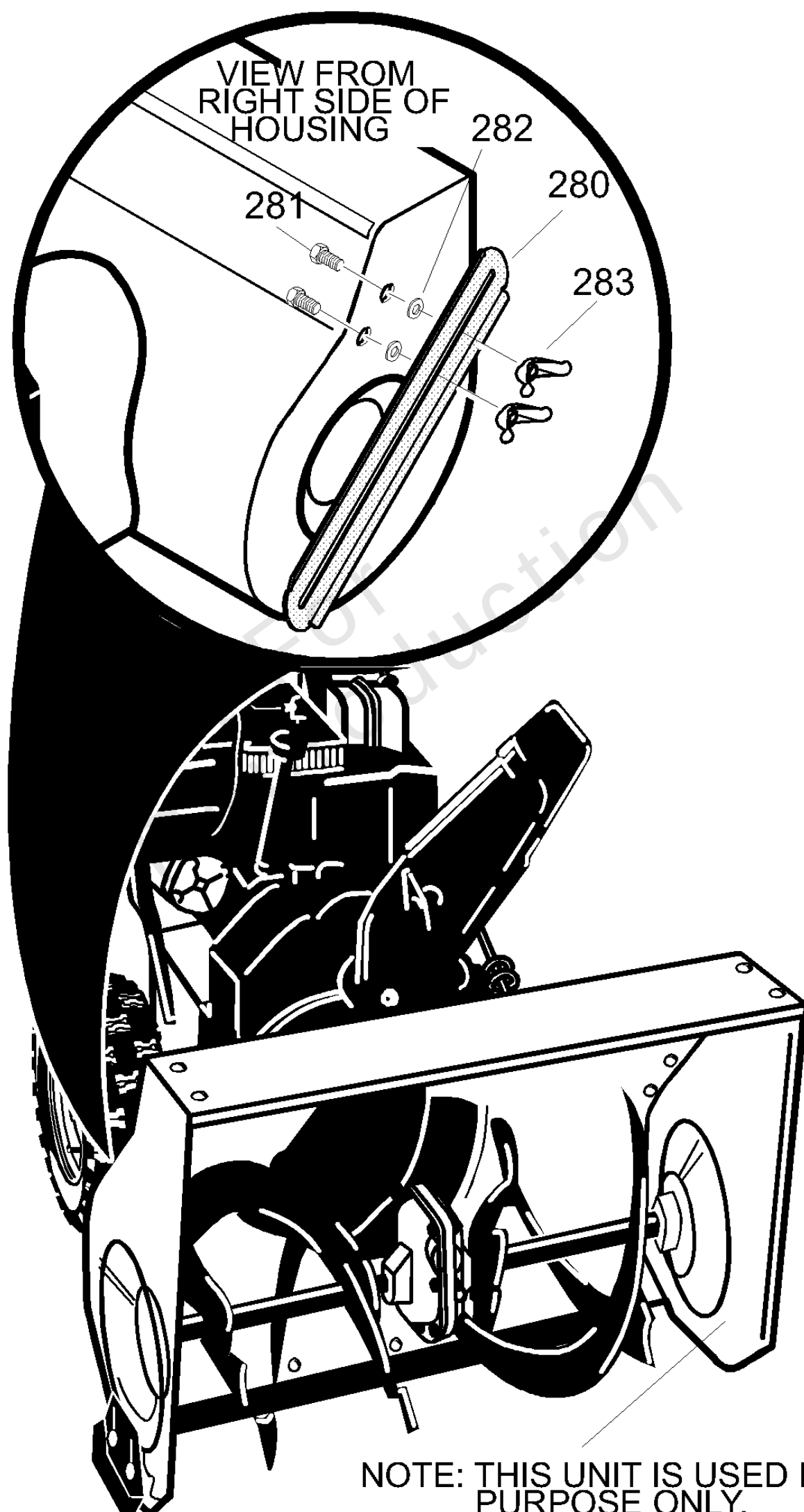
Discharge Chute Assembly

REF NO	PART NO	QTY	DESCRIPTION
580	761168-853		ASSY., UPPER CHUTE
582	578088MA		SCREW, 5/16-18X .75SL
584	71038		NUT, 5/16-18 HEX NYL
585	578088MA		SCREW, 5/16-18X .75SL
586	6711MA		WASHER, PLASTIC .315X
587	71038		NUT, 5/16-18 HEX
600	761329-853		LOWER CHUTE ASSEMBLY
601	586280		BOLT, 5/16-18X1.00
602	71071		FLATWASHER
603	71038		NUT, 5/16-18
604	762322MA		FLAP, C3 CHUTE INSERT
605	760987MA		RIVET,POP ALM.125X.23
606	585214-853		COLLAR, CHUTE
607	302628MA		SCREW, 1/4-20X .75 HH
608	71067MA		FLATWASHER
609	780029		NUT, 1/4-20 HEX NYLOCK
610	337227MA		RETAINER, RING INNER
611	585193MA		RETAINER, RING OUTER

Drift Cutter Assembly

Note: Unless noted otherwise, use the standard torque specifications

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NOTE: THIS UNIT IS USED FOR REFERENCE PURPOSE ONLY.

Drift Cutter Assembly

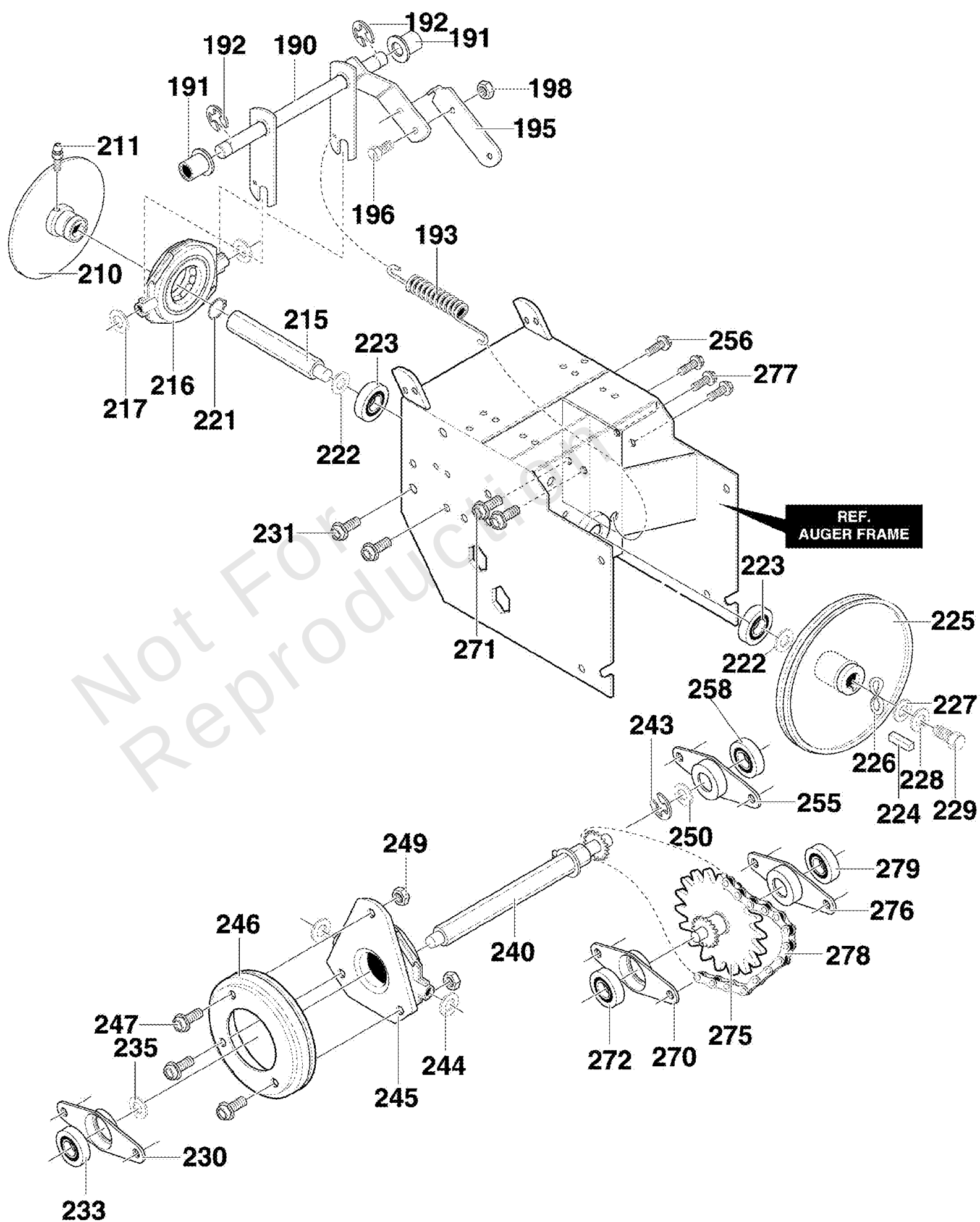
REF NO	PART NO	QTY	DESCRIPTION
280	762348-853		BAR, DRIFT CUTTER
281	340720MA		BOLT, 5/16-18X0.75
282	12021		WASHER
283	711604		WINGNUT

Not For Reproduction

Drive Components Assembly

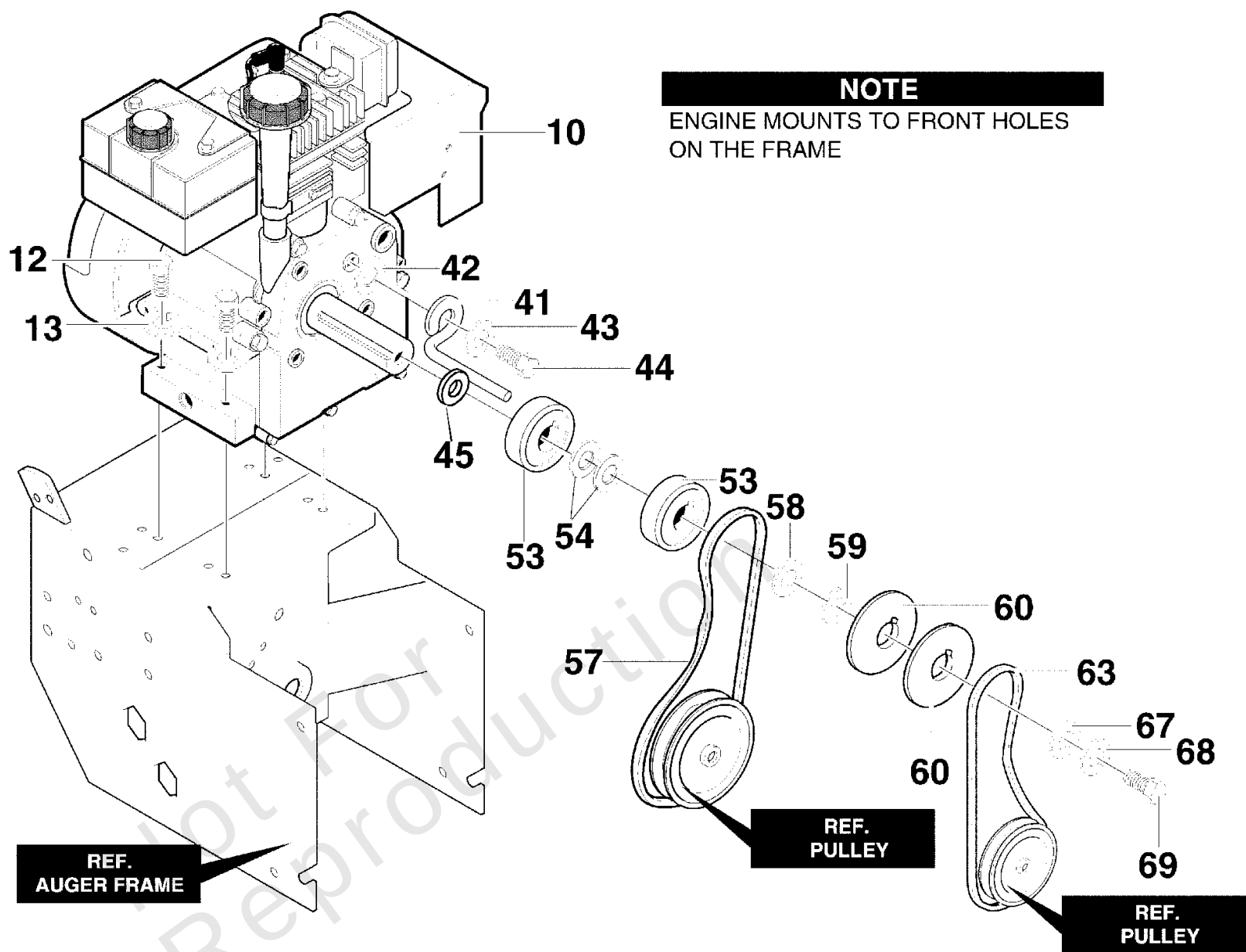
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Drive Components Assembly

REF NO	PART NO	QTY	DESCRIPTION
190	761820MA		LEVER, ASSY TRACTION CLUTCH
191	53703MA		BEARING, FLANGE
192	020864		RING, RET E
193	53818MA		SPRING, RETURN
195	579937MA		LEVER, SPRING
196	11871MA		SCREW, 1/4-20X .63
198	73826		NUT, 1/4-20
210	583163-853		DISC, ASSY
211	583206MA		ZERK, GREASE
215	583155MA		SHAFT, HEX TRACTION
216	85501MA		BEARING, TRUNION
217	71074		FLATWASHER
221	73811MA		RING, RETEX
222	580969MA		FLATWASHER
223	043846		BEARING, BALL
224	2001022MA		KEY,SQUARE 3/16 X 3/4
225	580961MA		PULLEY
226	580965MA		WASHER, WAVE
227	578962		FLATWASHER
228	071059MA		WASHER, SPLIT
229	302628MA		SCREW, 1/4-20X .75 HH
230	579850MA		BEARING & RETAINER
231	780055MA		SCREW, 5/16-18 x 0.50
233	-----		UNKNOWN
235	579858MA		WASHER.502-0.75-.06 F
240	337307MA		ASSEMBLY, HEX SHAFT
243	783002MA		RING, RETEX
244	71074		FLATWASHER
245	337029MA		BEARING, TRUNION
246	53830		WHEEL, ASSY FRICTION
247	11871MA		SCREW, 1/4-20X .63
249	303008MA		NUT, 1/4-20 KEPS
250	579858MA		WASHER.502-0.75-.06 F
255	579850MA		BEARING & RETAINER
256	780055MA		SCREW, 5/16-18 x 0.50
258	-----		UNKNOWN
270	334163MA		BEARING & RETAINER
271	780055MA		SCREW, 5/16-18 x 0.50
272	-----		UNKNOWN
275	761691MA		ASSEMBLY, JACKSHAFT
276	579850MA		BEARING & RETAINER
277	780055MA		SCREW
278	579867MA		CHAIN ROLLER
279	-----		UNKNOWN



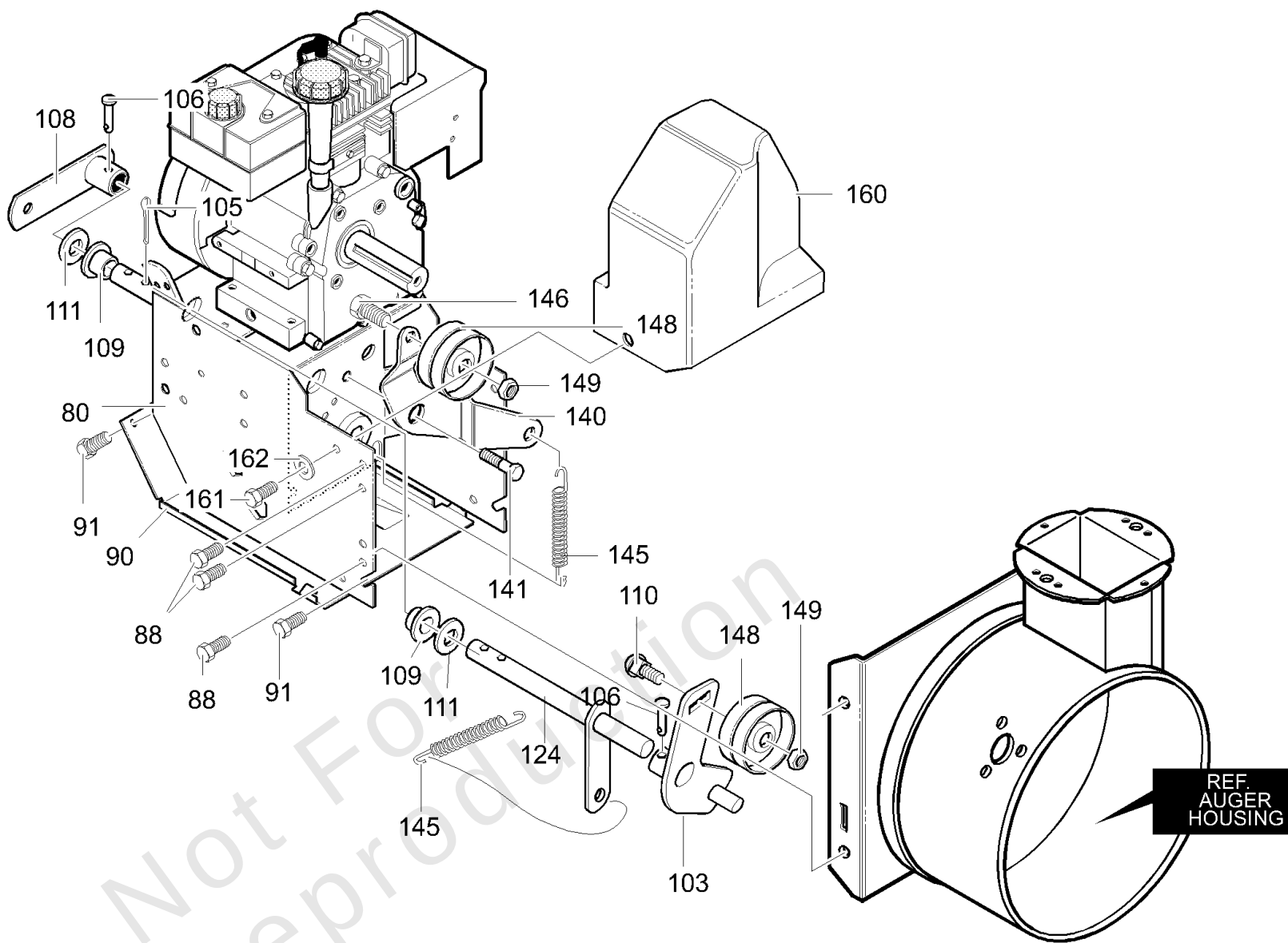
Engine Assembly

REF NO	PART NO	QTY	DESCRIPTION
10	-----		ENGINE -(See Engine Manual)
12	710024		SCREW, 5/16-18
13	071060		WASHER
41	3949MA		GUIDE, ROD BELT
42	6711MA		WASHER, PLASTIC .315X
43	071060		WASHER
44	910828MA		SCREW, 5/16-24 x 1.00
45	762291MA		SPACER
53	579854MA		PULLEY, HALF
54	579861MA		WASHER, FLAT
57	579932MA		BELT, V 3L 33.13LG
58	712120MA		FLATWASHER
59	586251MA		SPACER, SLEEVE
60	586253		PULLEY, ENGINE
63	585437MA		BELT
67	50677MA		WASHER, FLAT
68	71063		WASHER
69	71015		SCREW, 3/8-24 x 1.00

Frame Components

Note: Unless noted otherwise, use the standard torque specifications

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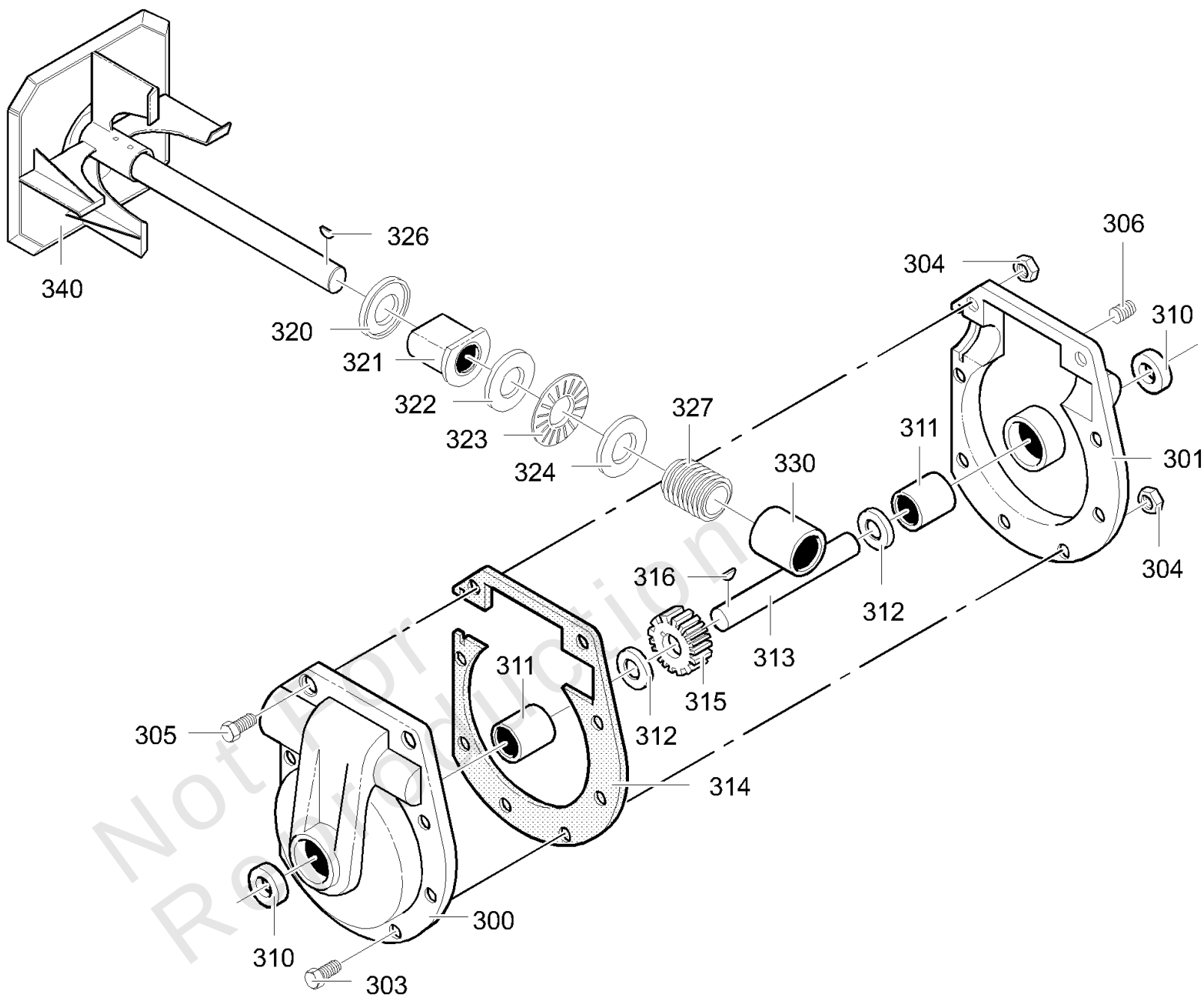
Frame Components

REF NO	PART NO	QTY	DESCRIPTION
80	761708-892		FRAME, ASSY
88	780055MA		SCREW, 5/16-18 x 0.50
90	579760-853		COVER, BOTTOM
91	310169MA		SCREW, 1/4-20X .63 WA
103	761822		ASSY., IDLER
105	711682MA		HAIR PIN
106	761761MA		PIN, CLEVIS 3/16" DIA
108	761806		ASSEMBLY, SPRING ATTACH WHEEL
109	53703MA		BEARING, FLANGE
110	585781MA		BOLT 3/8-16X1.25
111	711617		FLATWASHER
140	761701MA		LEVER, IDLER ARM TRACTION
141	329989MA		BOLT, 5/16-18
145	53704MA		SPRING, IDLER TRACTIO
146	761760		SCREW, 3/8-16 x 1.25
148	50793MA		PULLEY, IDLER
149	590		NUT, 3/8-16
160	760479		BELT COVER
161	310169MA		SCREW, 1/4-20X .63 WA
162	71067MA		FLATWASHER

Gear Case Assembly

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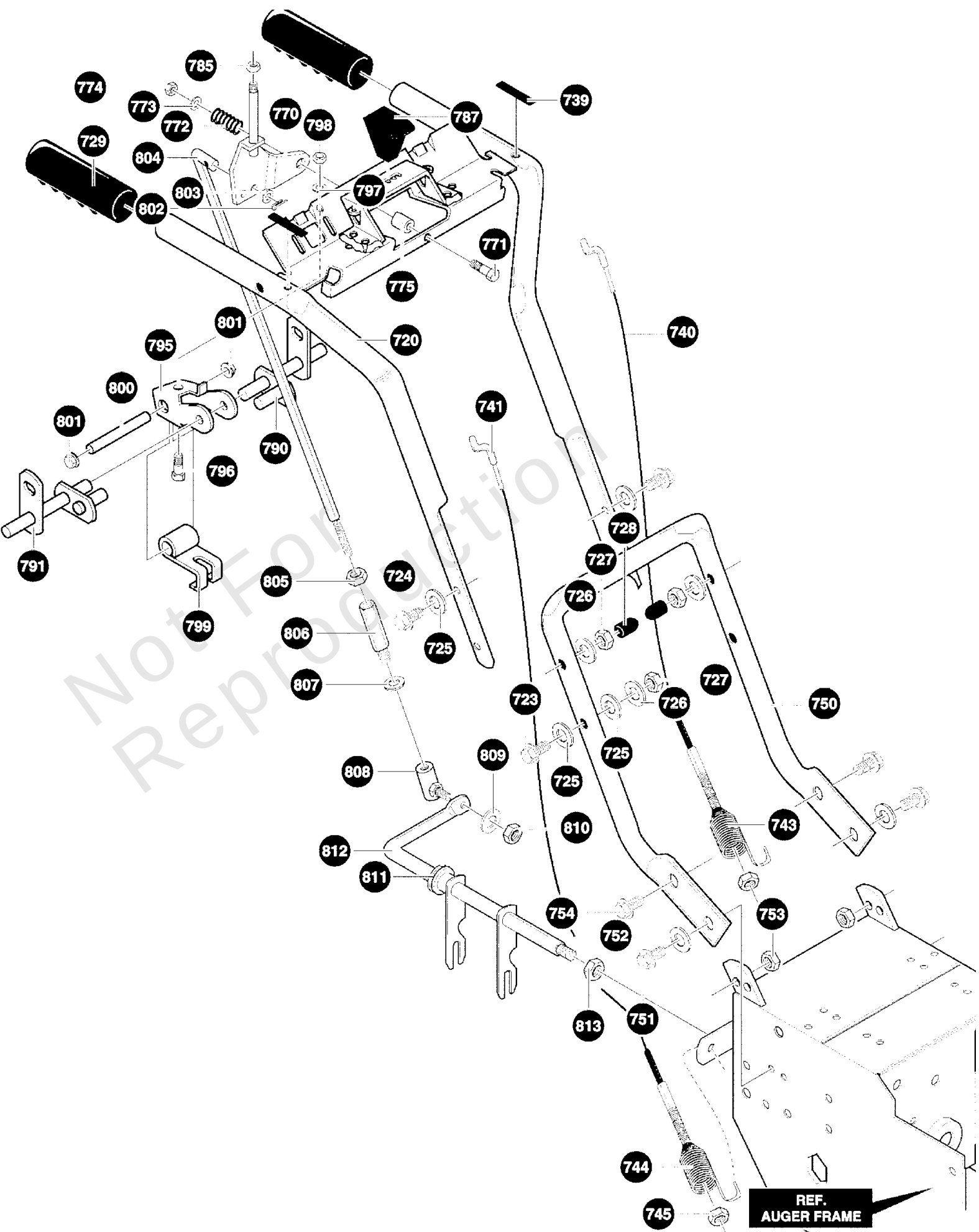
Gear Case Assembly

REF NO	PART NO	QTY	DESCRIPTION
300	896MA		CASE,GEAR RH 12AUG/10
301	895MA		CASE, GEAR LH 12"AUG/
303	910828MA		SCREW, 5/16-24 x 1.00
304	71100MA		NUT, 5/16-24
305	-----		UNKNOWN
306	53749MA		PIPE PLUG
310	780151MA		SEAL, OIL CR 530552
311	53743		BEARING, SLEEVE
312	53748MA		WASHER, FLAT 1.00
313	760528MA		SHAFT, AUGER OUTPUT
314	897MA		GASKET, GEAR BOX
315	53730MA		WORM GEAR
316	73905MA		KEY, WOODRUFF #91
320	53737MA		RING, QUAD .924IDX.10
321	583126MA		BRNG, FL .753IDX1.128
322	48275MA		WASHER, FLAT .752X1.
323	50684MA		BEARING, ROLL
324	48275MA		WASHER, FLAT .752X1.
326	50795MA		KEY, HI-PRO 606 .75D
327	53732MA		WORMGEAR,1.75OD 1.56L
330	53731MA		BEARING, SLEEVE
340	761692-853		IMPELLER
--	333431MA		LUBRIPLATE, GR132, 14oz

Handle Assembly

Note: Unless noted otherwise, use the standard torque specifications

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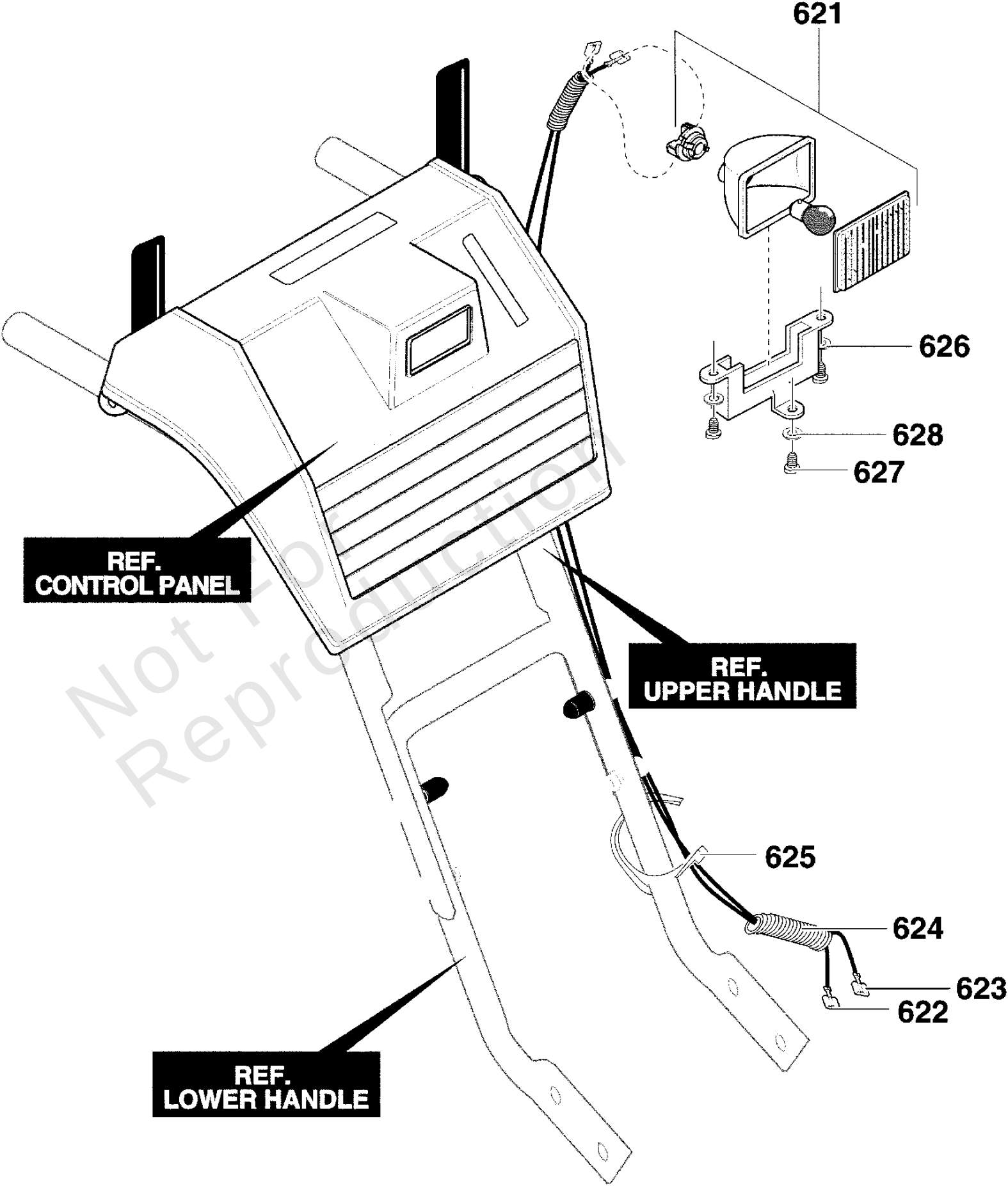
Handle Assembly

REF NO	PART NO	QTY	DESCRIPTION
720	760192-853		ASSEMBLY, HANDLE
723	71007		SCREW, 3/8-16 x 2.00
724	7288MA		SCREW, 3/8-16X3.00 HH
725	71072		WASHER, FLAT
726	71062		WASHER
727	71044		NUT, 3/8-16
728	7289MA		STOP,PLASTIC.375
729	50792MA		GRIP, HANDLE
739	4049MA		BUMPER, RECT W/FLAT T
740	1580MA		CABLE, CLUTCH 32.19"
741	761589MA		CABLE, AUG CLUTCH
743	579869MA		TENSION SPRING
744	1673MA		SPRING, AUGER CLUTCH,
745	780029		NUT, 1/4-20 HEX NYLOCK
750	5543-853		HANDLE, LOWER
751	70984		SCREW, 5/16-18 x 0.75
752	071060		WASHER, SPTLK
753	71391		NUT, 5/16-18
754	70984		SCREW, 5/16-18 x 0.75
770	581964		BRKT, SHIFT ACTUATOR
771	7288MA		SCREW, 3/8-16X3.00 HH
772	50786MA		SPRING,.509 DIA X0.75
773	71072		WASHER, FLAT
774	71046		NUT, 3/8-16 HEXNYL
775	579183		SPACER, SHIFT ACTUATOR
785	071034		NUT, 1/4-20
787	585522		KNOB, SHIFT 1/420
790	578926		ROD, ASSY LH
791	578924		ROD, ASSY RH
795	579002		BRACKET, CAM RETAINER
796	313676		SCREW, 5/16-18 x 0.75
797	071060		WASHER
798	71037		NUT, 5/16-18
799	8417MA		CAM LOCK
800	584673MA		PIN, SPRING PIVOT SHC
801	73664MA		NUT, PUSH ON
802	071081		PIN, COTTER
803	71071		FLATWASHER
804	581079		ROD, SPEED CONTROL
805	71042MA		NUT.31-24 HEX
806	6352MA		ADAPTOR,ROD SPEED YL
807	071060		WASHER
808	50782MA		BALLJOINT,STEEL YZ
809	071060		WASHER
810	71042MA		NUT.31-24 HEX
811	579944MA		BRNG FL .500ID X .88
812	337436		ROD, ASSY YOKE "PANEL"
813	071111		NUT, 38-16

Headlight

Note: Unless noted otherwise, use the standard torque specifications

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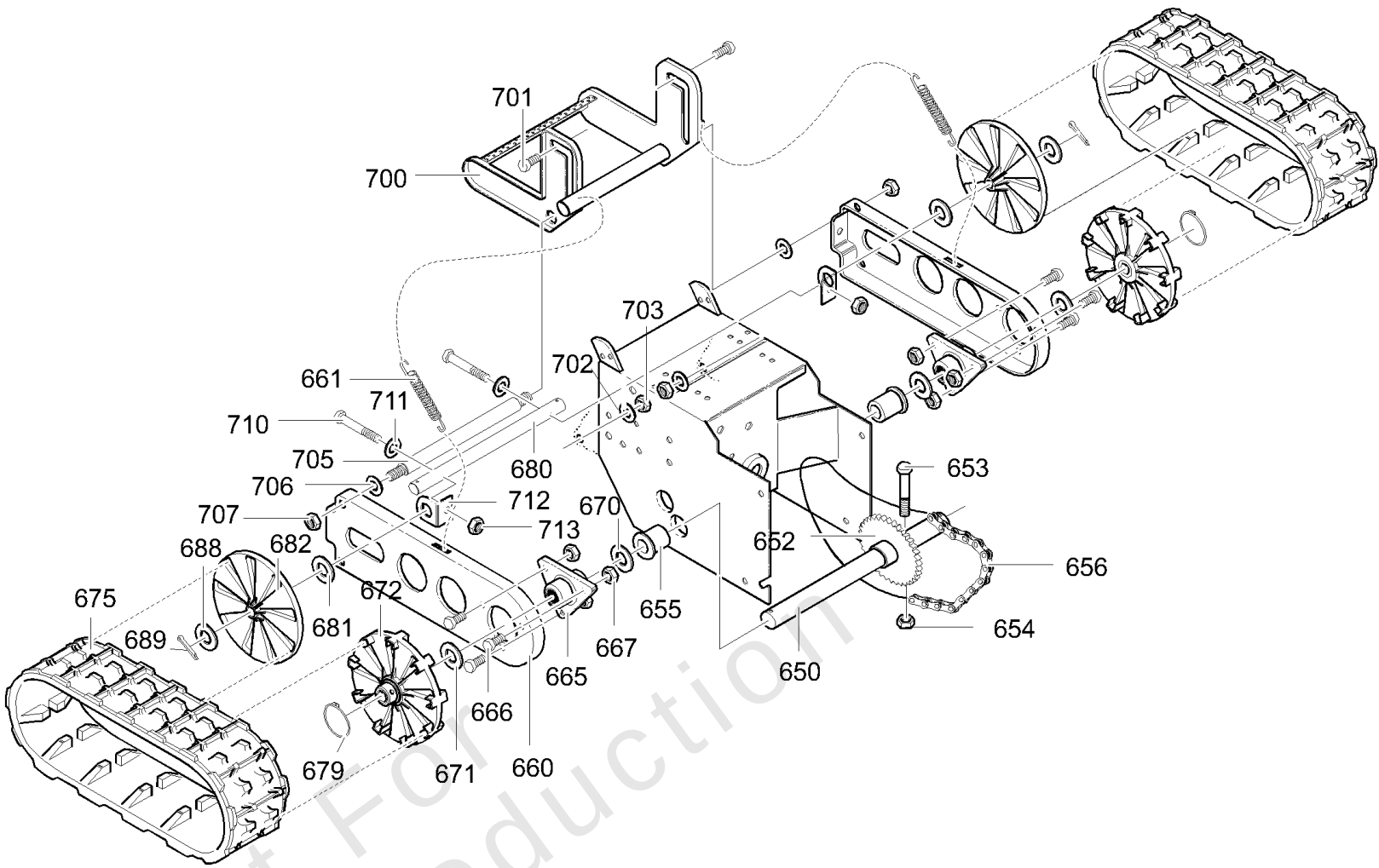
Headlight

REF NO	PART NO	QTY	DESCRIPTION
621	581575MA		HEADLIGHT ASSY
622	305743		ASSY, WIRE
623	305740		WIRE, HEADLIGHT GROUND
624	6636		CONDUIT
625	57444		TIE, CABLE
626	578921		BRACKET
627	901696		SCREW #8 X .50
628	901736		WASHER, FLAT

Track Assembly

Note: Unless noted otherwise, use the standard torque specifications

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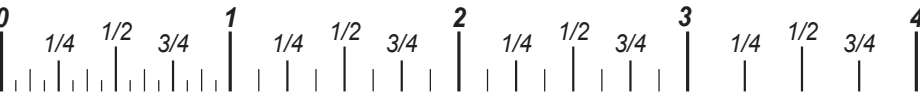
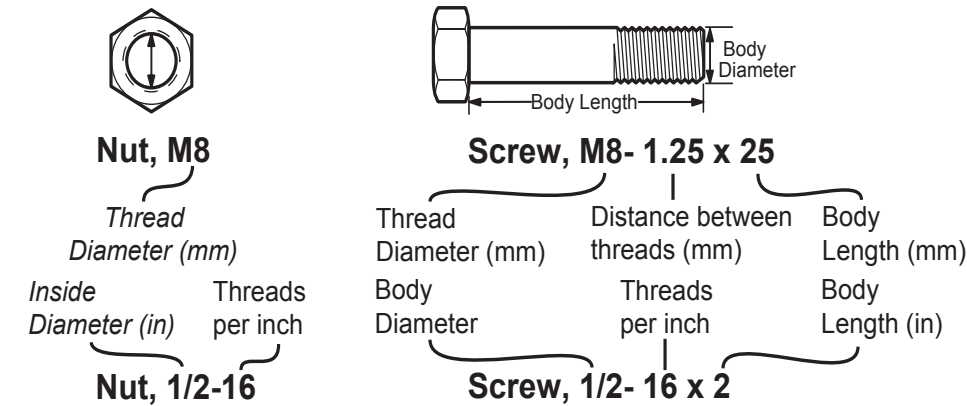
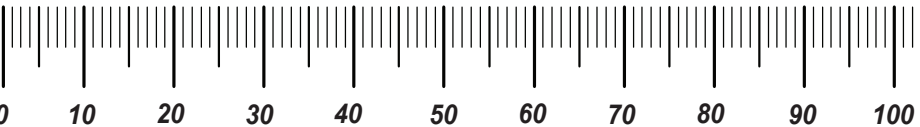
Track Assembly

REF NO	PART NO	QTY	DESCRIPTION
650	581115		SHAFT, AXLE
652	579901		SPROCKET AND HUB
653	73839MA		SCREW
654	780029		NUT
655	581730MA		BEARING, FLANGE
656	579867MA		CHAIN, ROLLER
660	580635-853		PLATE, TRACK DIRECT
661	51447MA		SPRING, DRIVE IDLER
665	316863MA		BEARING, TRACK
666	302628MA		SCREW, 1/4-20X .75 HH
667	302635		NUT
670	580763		SPACER
671	6104MA		WASHER, FLAT
672	318719MA		SPROCKET, WHEEL
675	580984		TRACK
679	322424MA		PIN, KLIK
680	580876		SHAFT, IDLER
681	579597MA		WASHER, FLAT
682	318720MA		WHEEL IDLER
688	579597MA		WASHER, FLAT
689	302847		PIN, COTTER
700	580657-853		PEDAL, FOOT
701	6001MA		BOLT
702	-----		UNKNOWN
703	71037		NUT
705	580652		SHAFT
706	71072		WASHER, FLAT
707	711906		NUT
710	302618MA		SCREW
711	71067MA		WASHER, FLAT
712	580634		BRACKET, TRACK TENSIONER
713	780029		NUT

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).

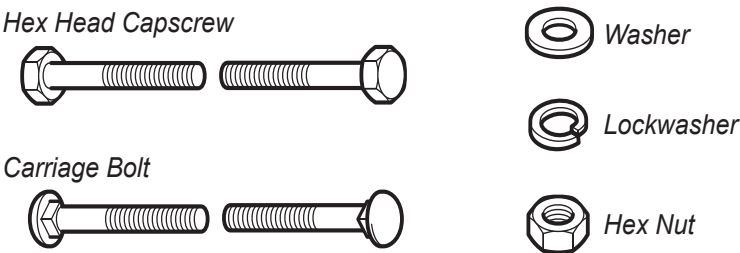
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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