



Parts Manual

Mfg. No: 629109x85A
Dual Stage Snow Thrower (2004)

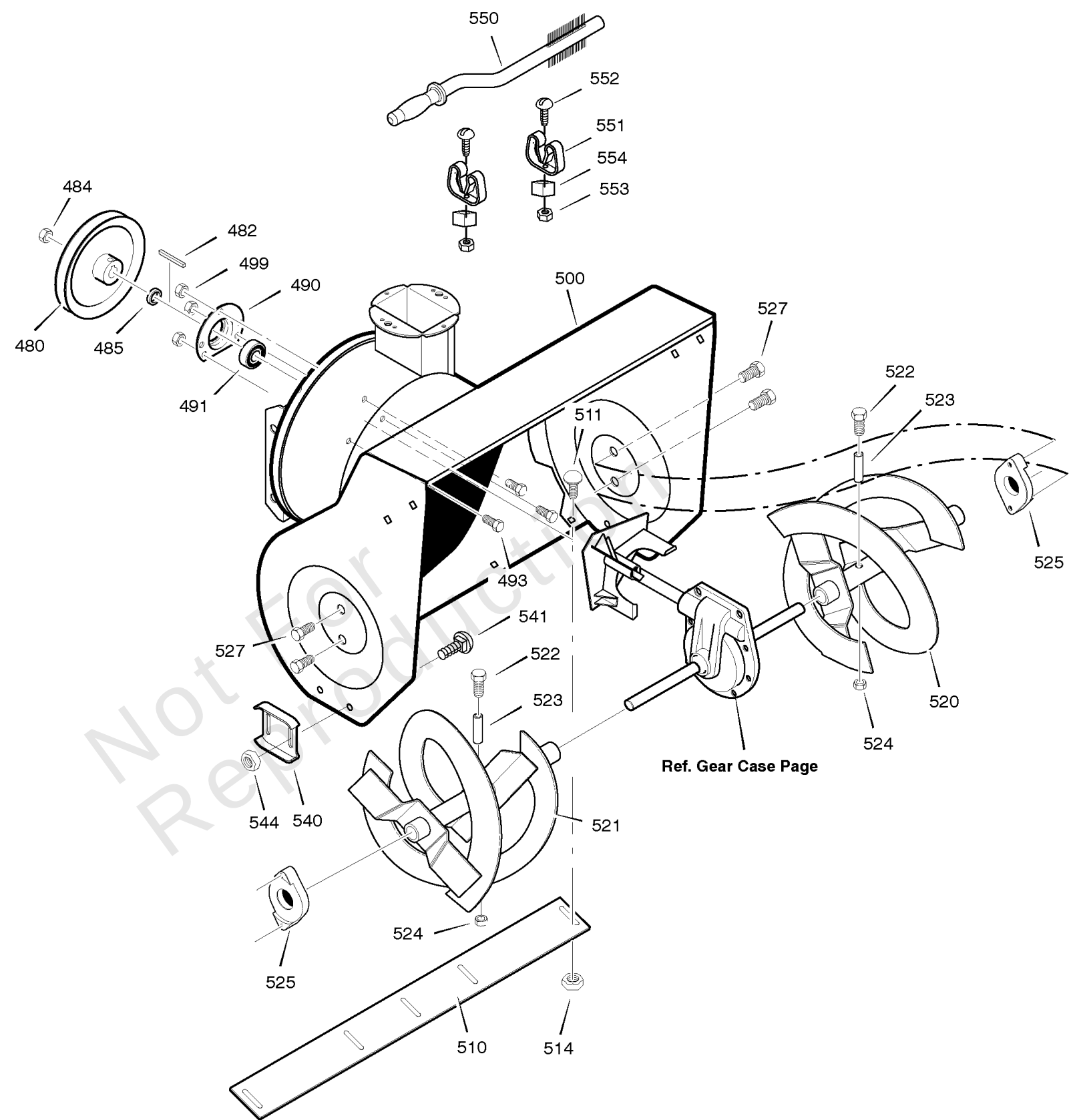
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Not For
Reproduction

Auger Housing

Note: Unless noted otherwise, use the standard torque specifications

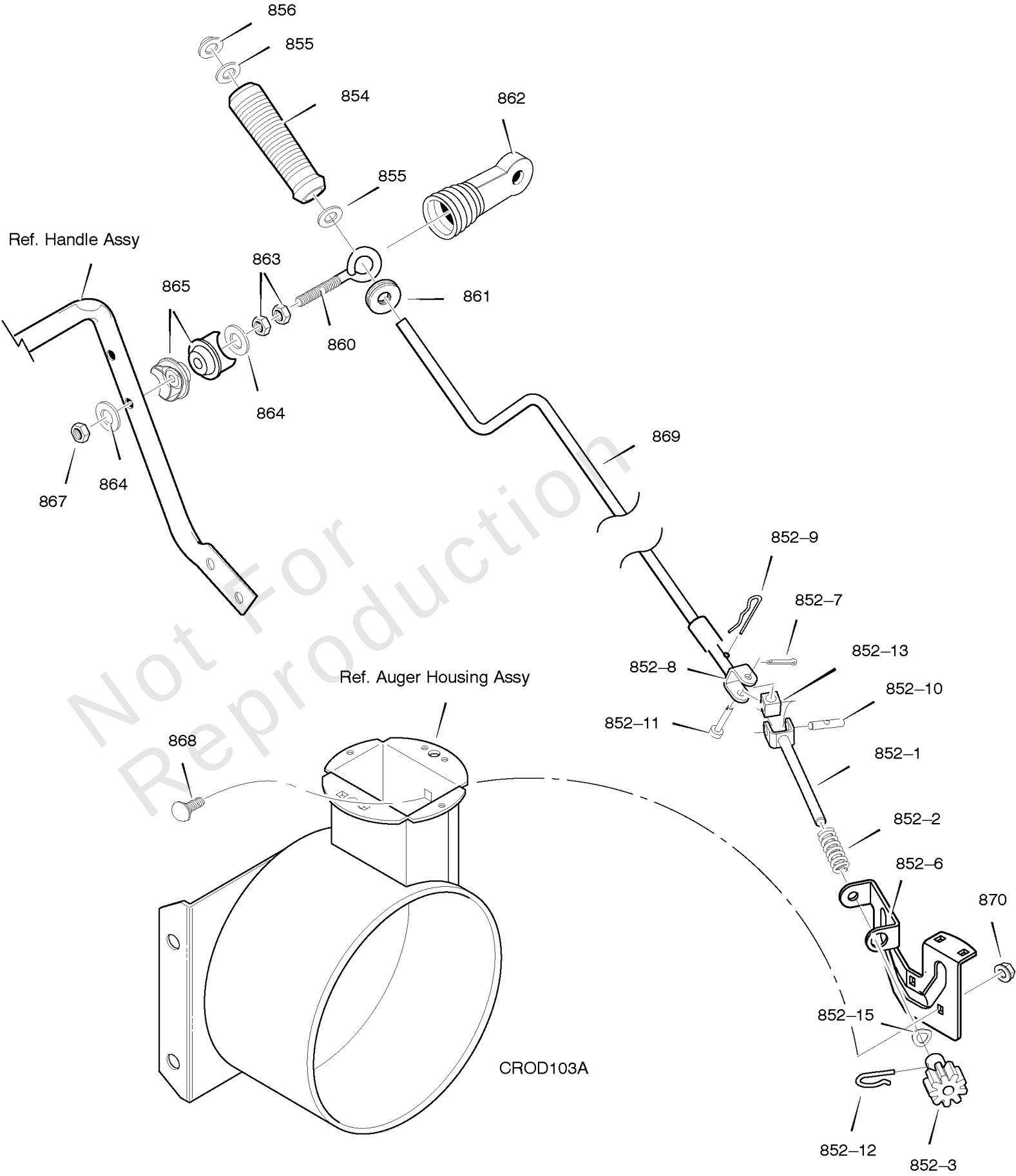
Mfg. No: 629109x85A



Auger Housing

REF NO	PART NO	QTY	DESCRIPTION
480	583146MA		PULLEY, 4L 8.40 OD
482	2001022MA		KEY,SQUARE 3/16 X 3/4
484	15X112MA		NUT.50-20 HEX FLG SER
485	1501158MA		SPACER,FRICTION PULLE
490	582957 YZ		RETAINER, BALL BRNG
491	1501389MA		BEARING, BALL
493	001X92MA		BOLT, HEX 5/16-18X .50
499	710026		NUT, 5/16-18 HEXWDFLLK
500	1501694E012MA		HOUSING, ASSY
510	760600E701MA		BLADE, SCRAPER
511	340720MA		BOLT, 5/16-18X.75
514	710026		NUT, 5/16-18
520	760599E701MA		AUGER, ASSY, LH
521	760600E701MA		AUGER, ASSY, RH
522	9524MA		SCREW, 1/4-20 X 1.75
523	3943MA		SPACER, SLEEVE
524	73826		NUT, 1/4-20
525	53757MA		BRNG,AUGER SHAFT MF-L
527	25X021MA		SCREW, 5/16-18 x 0.75
540	762376E701MA		SKID, HEIGHT ADJUST
541	340720MA		BOLT, 5/16-18 X .75
544	710026		NUT, 5/16-18
550	1501576MA		BRUSH, CLEANOUT
551	1501672MA		CLIP,RETAINER YZ
552	06X115MA		SCREW
553	15X146MA		NUT
554	578063MA		BLOCK,UNIVERSAL PIVOT
--	1501216MA		KIT,SHEAR BOLT.25-20X

Chute Rod



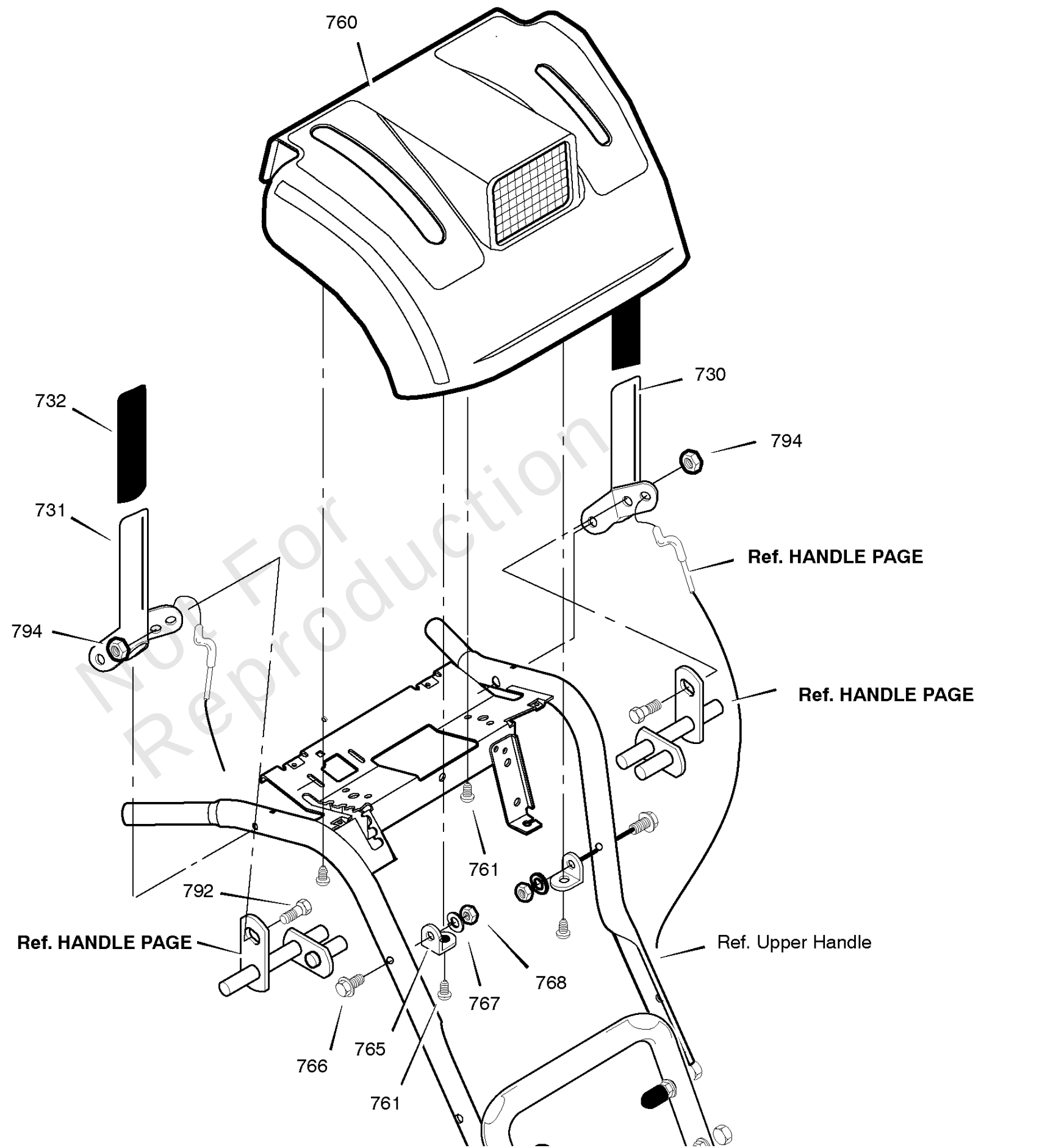
Chute Rod

REF NO	PART NO	QTY	DESCRIPTION
852-1	1501533 YZ		ASSEMBLY, YOKE & ROD
852-2	164X37MA		SPRING, COMPRESSION
852-3	1501067MA		GEAR,9 TOOTH 8DP
852-6	1501306E701MA		BRKT,CHUTE GEAR
852-7	579493MA		PIN, COTTER .06X .50
852-8	1501075 YZ		ASSEMBLY, YOKE ADAPTER YZ
852-9	711682MA		PIN, HAIR
852-10	578060MA		PIN,UNIV JOINT 3/8X1.
852-11	578309MA		LF PIN, CLEVIS .25DX
852-12	1501293MA		PIN-HAIR, CHUTE GEAR
852-13	578063MA		BLOCK,UNIVERSAL PIVOT
852-15	0020X1		WASHER, SPRING
854	307399MA		HANDLE
855	309312MA		WASHER, FLAT .39 X .7
856	73664MA		NUT, PUSH ON 3/8"
860	1501456MA		EYEBOLT.38-16X6.50 .6
861	148MA		GROMMET, Eyelet
862	1501457MA		BOOT, Eye Bolt
863	71045		NUT, 3/8-16 HEXJAM
864	71072		FLATWASHER .406X.81X.066
865	309344MA		ADAPTER, BOOT (2 REQUIRED)
867	71046		NUT, 3/8-16 HEXNYL
868	002X98MA		BOLT, CARRIAGE 1/4-20 X 1.00
869	1501074 YZ		CRANK, ASSY CHUTE
870	15X145MA		NUT, 1/4-20 NYLOCK

Control Panel

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Mfg. No: 629109x85A

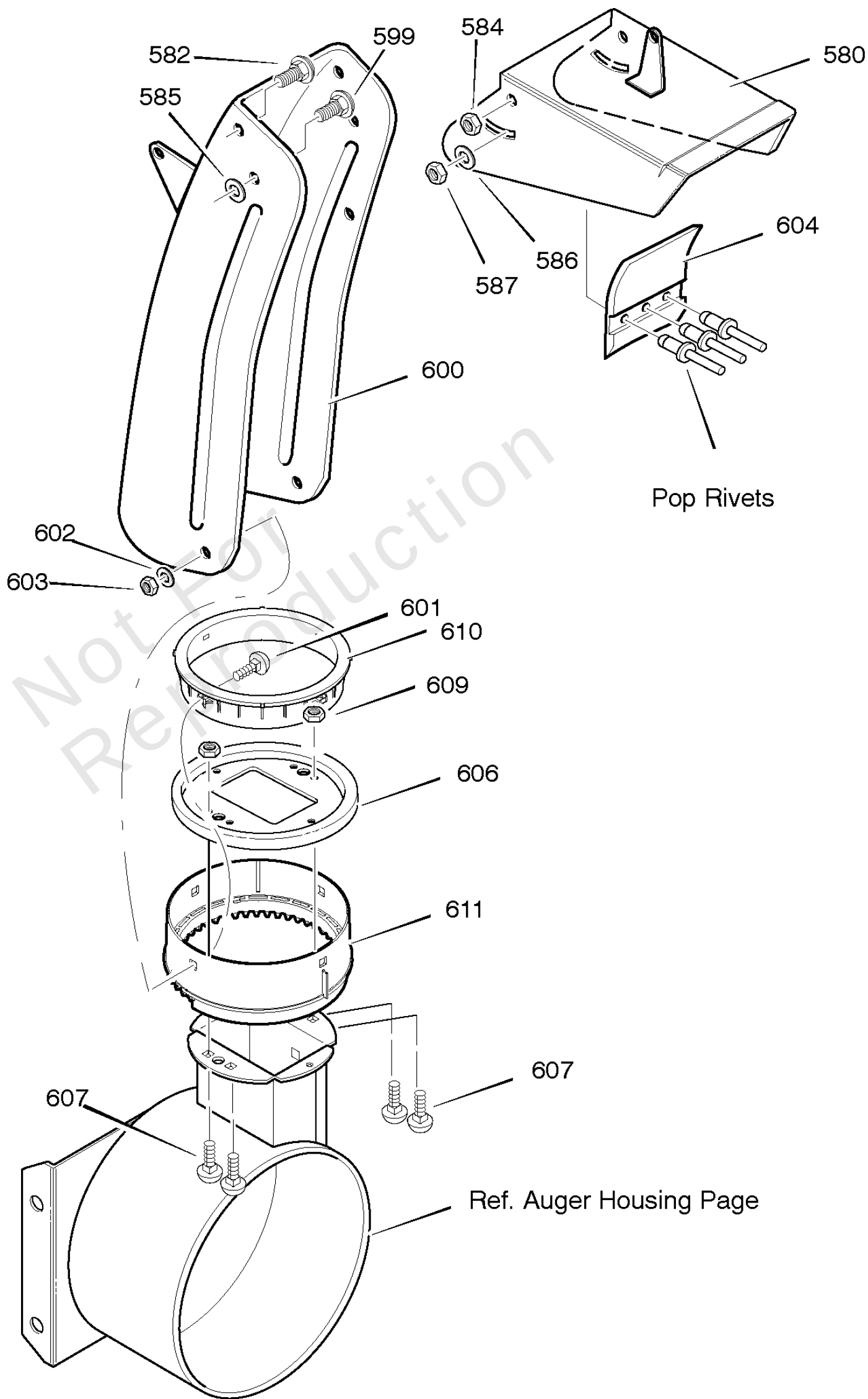


Control Panel

REF NO	PART NO	QTY	DESCRIPTION
730	1501358E701MA		CLUTCH HANDLE LH
731	1501357E701MA		CLUTCH HANDLE RH
732	337380MA		GRIP, CLUTCH LEVER
760	1501987		PANEL, CONTROL WITH LIGHT
761	316042MA		SCREW, 10X.62 UNSL-HW
765	578866E701		BRACKET, PANEL
766	302900MA		SCREW, 5/16-18 x 1.75
767	71060		WASHER
768	15X144		NUT, 5/16-18
792	905531MA		BOLT, 1/4-20X .50 CAR
794	908913MA		NUT.25-20 HEX JAM NYL

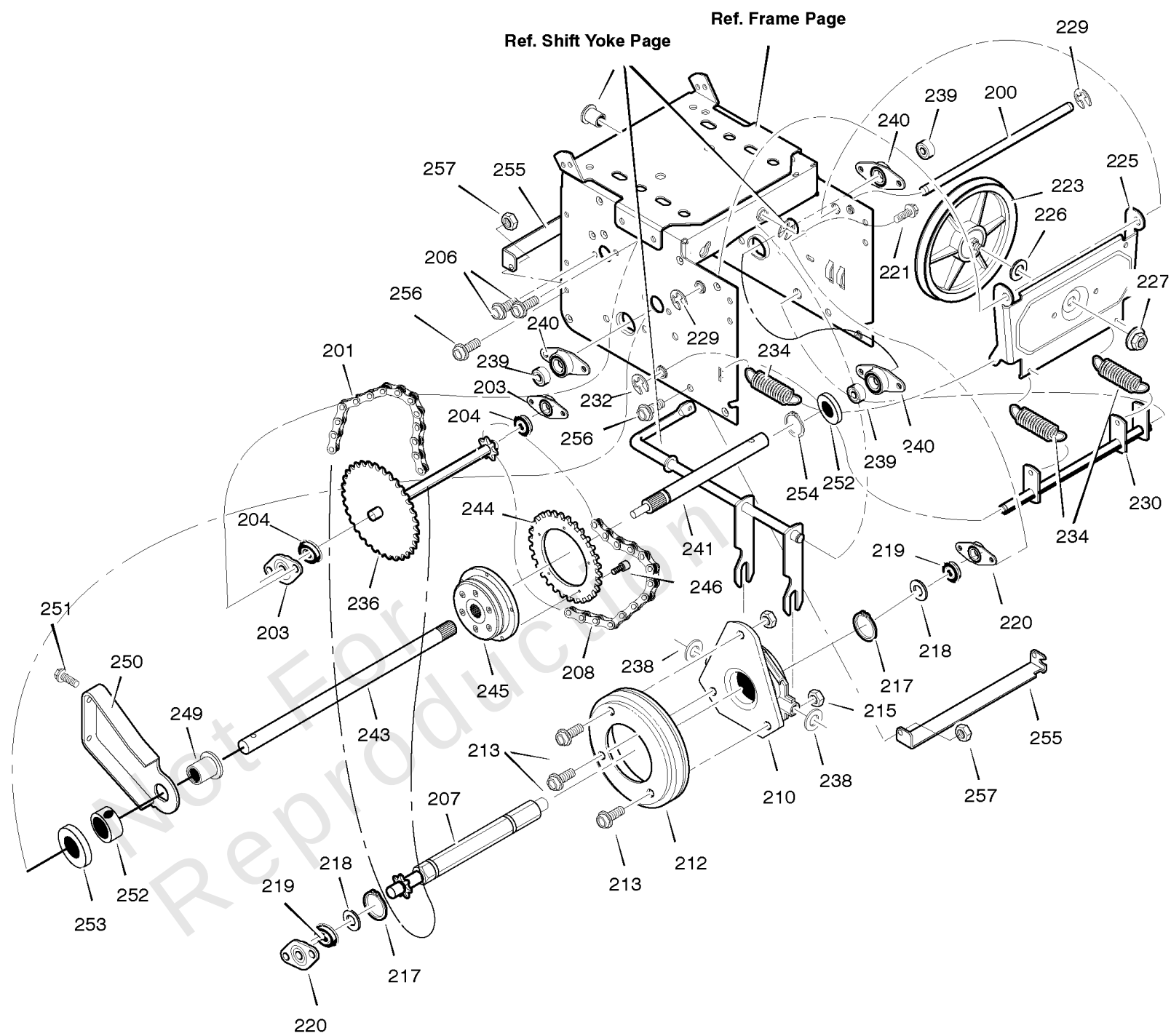
Discharge Chute

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 629109x85A



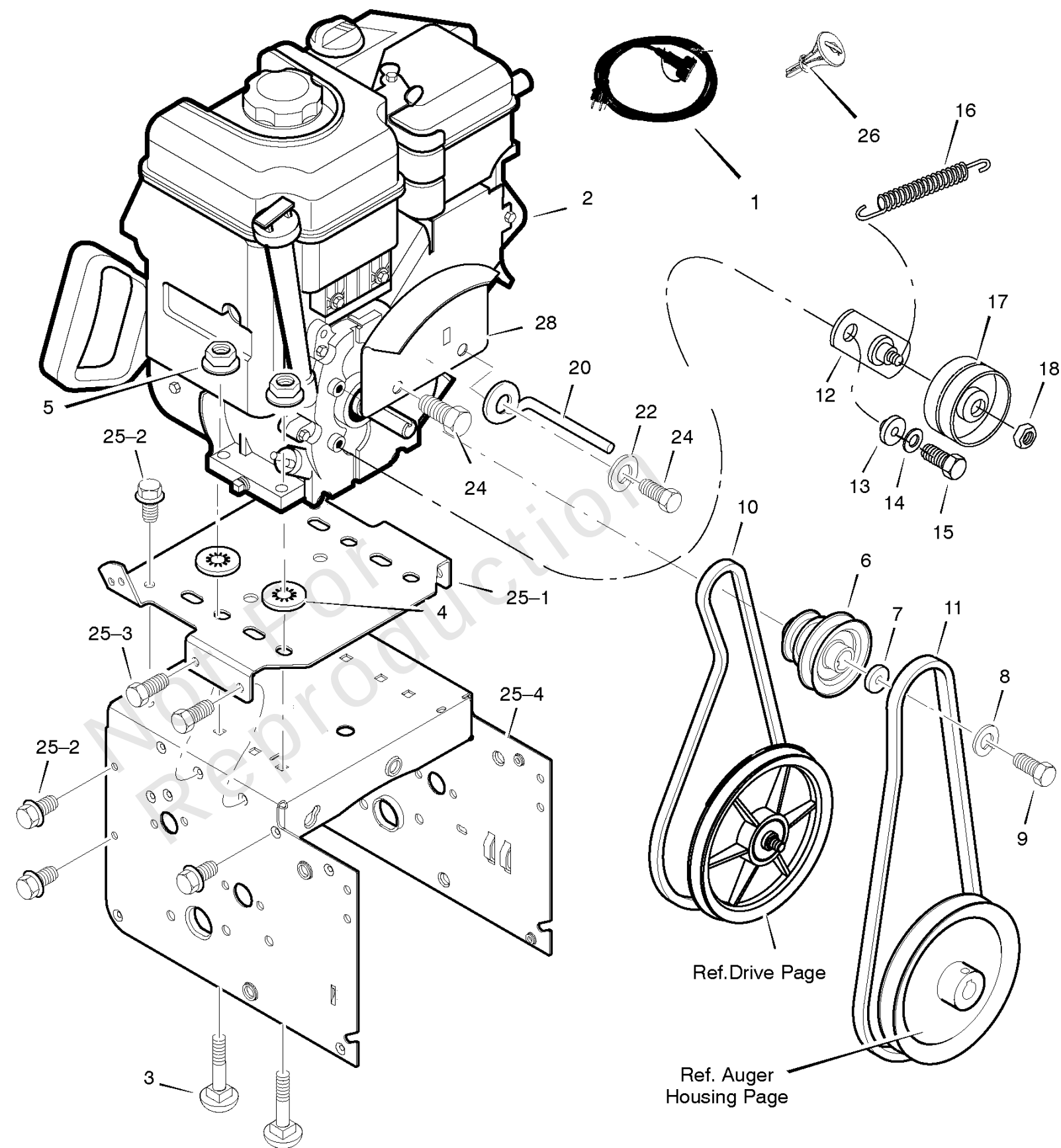
Discharge Chute

REF NO	PART NO	QTY	DESCRIPTION
580	761168E701MA		CHUTE ASY,UPR C3 RMT
582	578088MA		SCREW, 5/16-18X .75SL
584	71038		NUT
585	12021		PLASTIC WASHER
586	6711MA		WASHER, PLASTIC .315X
587	71038		NUT
599	02X100		SCREW, 5/16-18 x 1.00
600	761329E701		CHUTE, LOWER W/REMOTE
601	02X100		BOLT
602	71071		WASHER, FLAT
603	71038		NUT
604	762322MA		FLAP, C3 CHUTE INSERT
606	1501932 YZ		CHUTE COLLAR
607	02X101MA		BOLT
609	15X145MA		NUT
610	337227MA		RETAINER, RING INNER
611	1501282MA		RING, OUTER CHUTE



Drive

REF NO	PART NO	QTY	DESCRIPTION
200	1501092 YZ		LF AXLE, SWING PLATE YZ
201	579851MA		CHAIN, ROLLER 420X19.
203	579850MA		RETAINER ASSY, BEARING
204	579863MA		BEARING
206	25X020MA		SCREW.31-18X0.50 WAHH
207	1502032		ASSY, HEX SHAFT
208	579868MA		CHAIN,ROLLER 420X18.0
210	337029MA		BEARING, TRUNION CLUTCH R
212	1501435MA		WHEEL,FRICTION 4.3 RU
213	001X38MA		BOLT
215	303008MA		NUT, KEPS HEX 1/4-20
217	579859MA		RING,RETEXT .54X.03TR
218	579858MA		WASHER.502-0.75-.06 F
219	579863MA		BEARING, BALL
220	579850MA		RETAINER, BEARING
221	25X020MA		SCREW.31-18X0.50 WAHH
223	1501115MA		FRICTION PULLEY
225	1501057 YZ		LF PLATE, SWINGING YZ
226	1501158MA		SPACER,FRICTION PULLE
227	15X114		NUT, FLANGE LOCK 3/8-24
229	11X30MA		RETAINER, RING 7/16 Y
230	1501626 YZ		ASSY., SPRING LINK -STEERABLE
232	11X30MA		RETAINER, RING 7/16 Y
234	165X112MA		SPRING, EXTENSION
236	1501102		SPROCKET SET 33T/7
238	71074		WASHER, FLAT
239	53263MA		BEARING, BALL
240	50648MA		RETAINER, BEARING
241	1502044MA		AXLE & PIN ASSY. -STEER BB LEFT
243	1502040MA		AXLE & BUSHING ASSY. -STEER BB RH
244	1501623MA		SPROCKET
245	1501619MA		CLUTCH, AUTO LOCK
246	025X24MA		SCREW
249	1501114MA		BEARING,AXLE
250	1501618 YZ		BRACKET, AXLE SUPPORT
251	25X021MA		SCREW
252	1501620MA		COLLAR, LOCKING
253	17X195MA		WASHER
254	011X32MA		RETAINER, RING
255	1502030 YZ		BRACKET, SUPPORT
256	001X38MA		BOLT
257	780285MA		NUT



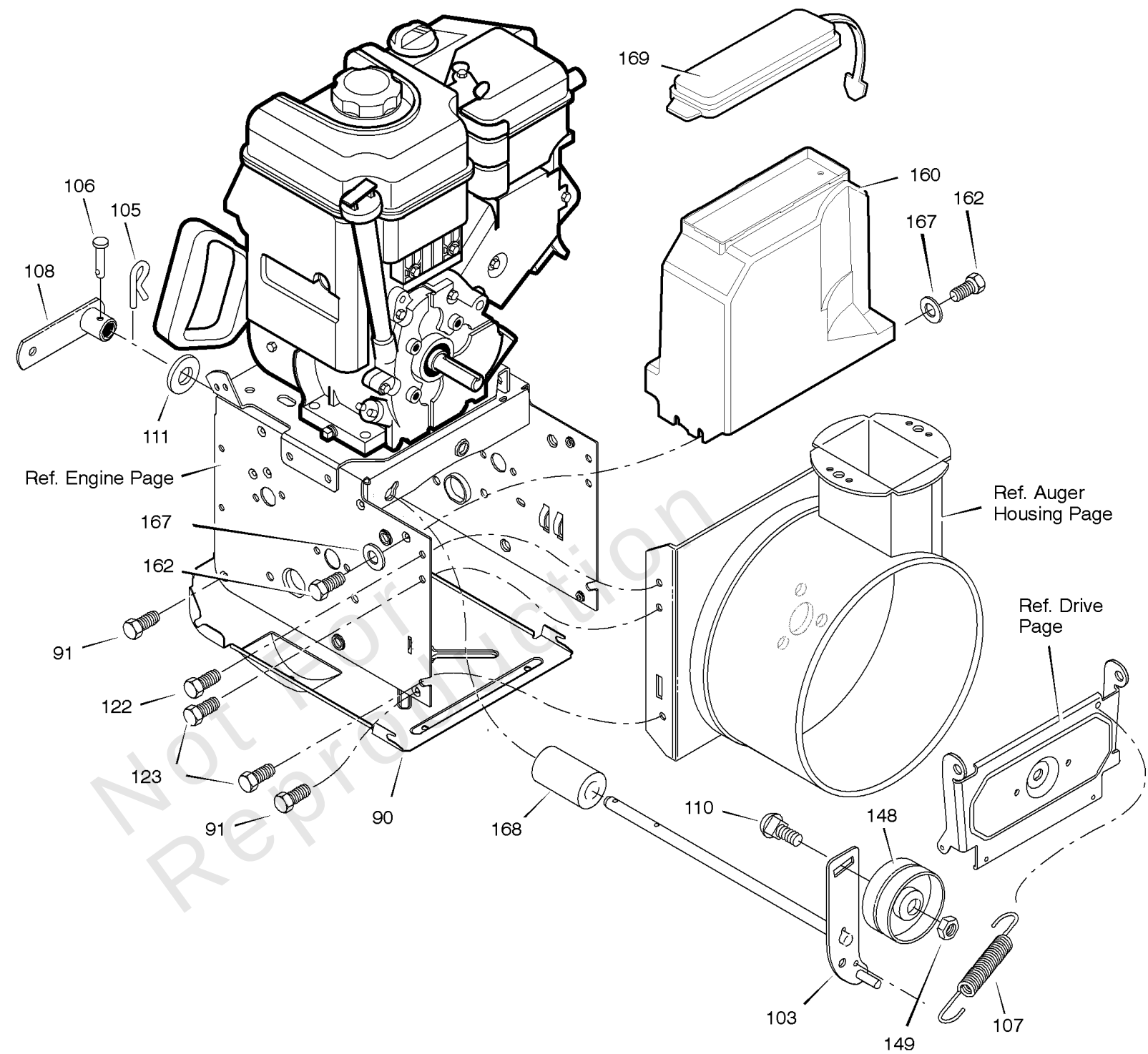
Engine

REF NO	PART NO	QTY	DESCRIPTION
1	761332		CORD, STARTER
2	-----		ENGINE
3	002X97MA		BOLT, CARRIAGE
4	028X76MA		NUT,SPEED
5	710026		NUT
6	1501109MA		PULLEY, ENGINE
7	710247		WASHER
8	71063		WASHER
9	71015		SCREW
10	579932MA		BELT, DRIVE V 3L
11	585416MA		BELT
12	1501112 YZ		BRACKET ASSEMBLY, IDLER
13	1501065MA		BUSHING,IDLER BRKT
14	71060		WASHER, SPLIT
15	710097		SCREW 5/16-24 X .75
16	53704MA		SPRING, IDLER TRACTIO
17	50793MA		PULLEY, IDLER
18	590		NUT, JAM 3/8-16
20	1501201MA		GUIDE, ROD BELT
22	71060		WASHER
24	710097		SCREW
25	-----		FRAME ASSEMBLY
25-1	1501062E012		PLATE, ENGINE
25-2	310169MA		SCREW, 1/4-20X .63 WA
25-3	25X020MA		SCREW.31-18X0.50 WAHH
25-4	1501666E012		MOTOR BOX
26	695756		KEY, BRIGGS ENGINE
28	1501999 Z		SHIELD, BRIGGS ENGINE
--	F-041057L		OWNER'S MANUAL -(8218-2217-02)

Frame

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 629109x85A



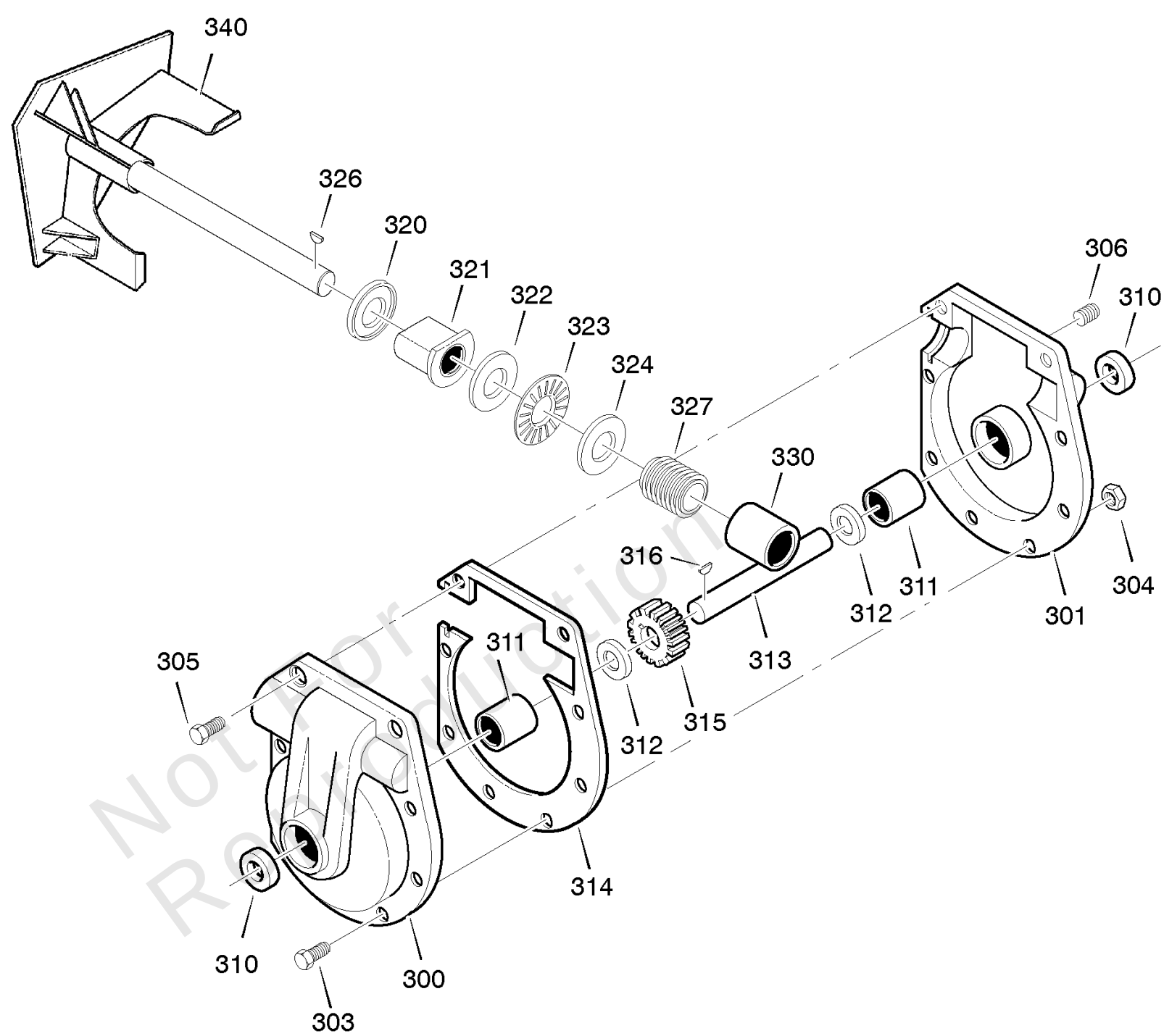
Frame

REF NO	PART NO	QTY	DESCRIPTION
90	1501055E701MA		PANEL,BOTTOM
91	310169MA		SCREW, 1/4-20X .63 WA
103	1502051 YZ		IDLER ASSEMBLY, AUGER
105	711682MA		PIN, HAIR .38DIA X 1.64LG
106	761761MA		PIN, CLEVIS 3/16" DIA
107	165X159MA		SPRING, TENSION
108	761675 YZ		ASSY., SPRING ATTACH
110	585781MA		BOLT, 3/8-16X1.25 CARR.
111	711617		WASHER, FLAT
122	25X020MA		SCREW.31-18X0.50 WAHH
123	25X021MA		SCREW, TAP 5/16-18 X .75
148	50793MA		PULLEY, IDLER
149	590		NUT, JAM 3/8-16
160	1501052MA		COVER,BELT,TOOLBOX BL
162	26X306MA		SCREW, TAP
167	71067		WASHER, FLAT
168	1501200MA		SPACER/AUGER BRKT
169	760539MA		LID, BLT COV. TOOL BO

Gear Case

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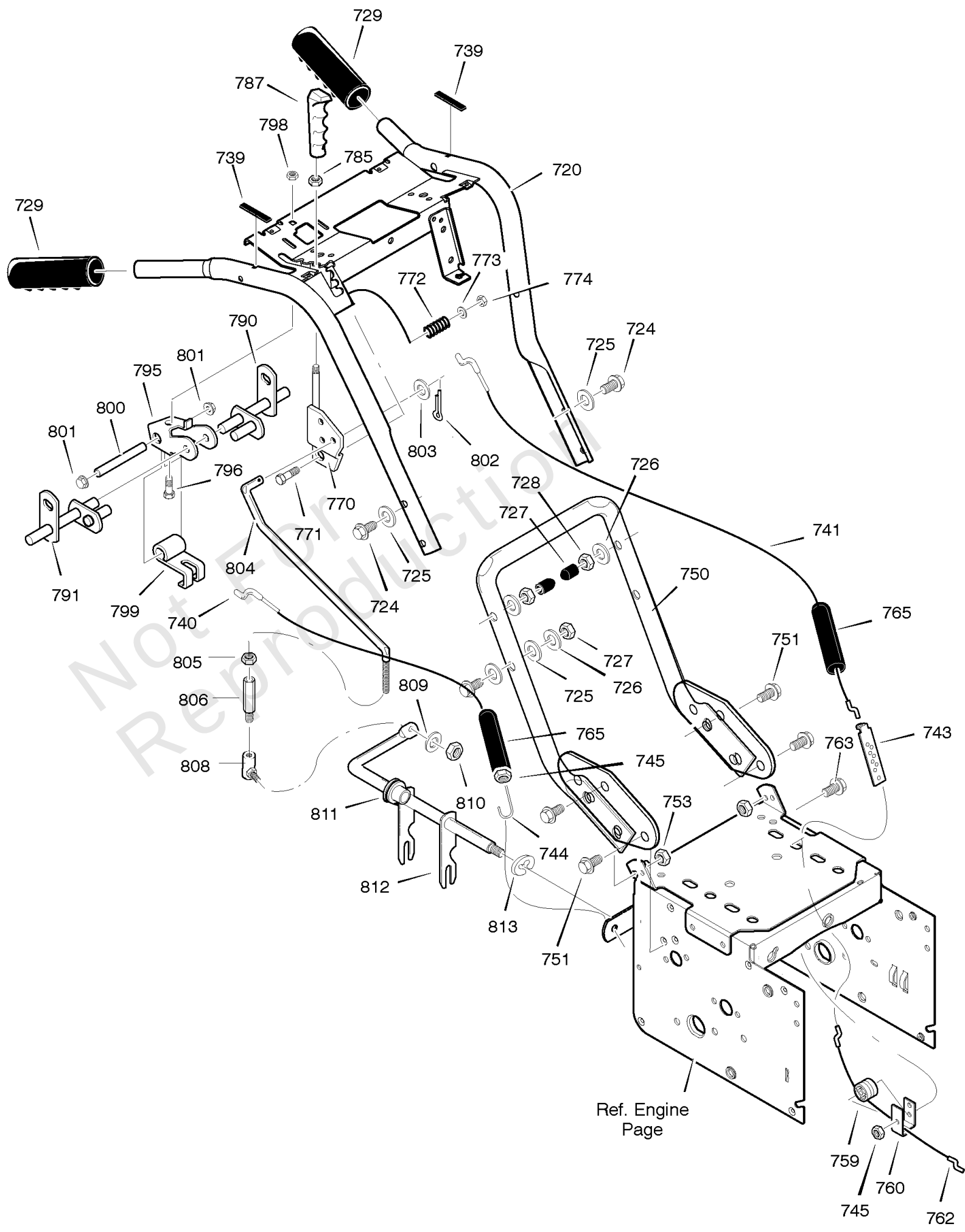
Gear Case

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	330434MA		SCREW, 5/16-24 x 1.50
306	53749MA		PLUG, PIPE 0.25-18
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, ROLLER
324	48275MA		WASHER, FLAT .752X1.
326	50795MA		KEY, HI-PRO 606 .75D
327	53732MA		WORMGEAR,1.75OD 1.56L
330	53731MA		BEARING, SLEEVE
340	1501147E701MA		IMPELLER
--	333431MA		LUBRIPLATE, GR132, 14oz

Handle Assembly

Note: Unless noted otherwise, use the standard torque specifications

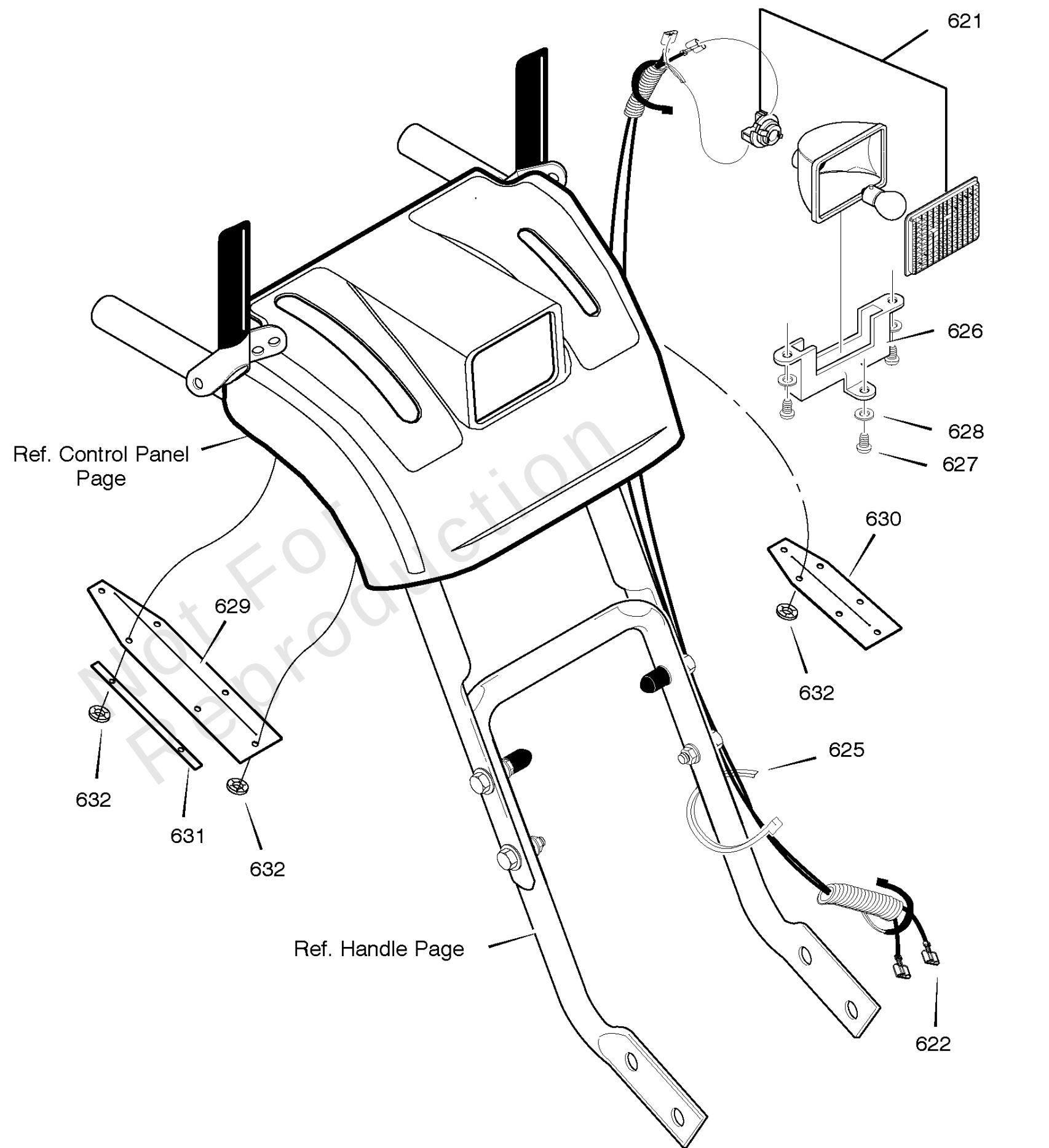
Mfg. No: 629109x85A



Handle Assembly

REF NO	PART NO	QTY	DESCRIPTION
720	1501378E701MA		HNDL ASY,P5 STDDDET RM
724	7288MA		SCREW, 3/8-16X3.00 HH
725	71072		WASHER, FLAT
726	71062		WASHER
727	71044		NUT
728	7289MA		STOP,PLASTIC.375
729	337399MA		GRIP, HANDLE
739	4049MA		BUMPER, RECT W/FLAT T
740	1501451MA		CABLE, AUGER CLUTCH
741	1501452MA		CABLE, DRIVE
743	313441MA		BRACKET, CABLE ADJ BL
744	1673MA		SPRING, AUGER CLUTCH,
745	15X145MA		NUT, HEX
750	1501449E701		HANDLE, LOWER
751	25X021MA		SCREW
753	15X144MA		NUT, 5/16-18
759	579860MA		SPOOL, CABLE
760	1501059 YZ		BRKT, SPOOL
762	1501122MA		CABLE, LOWER DRIVE
763	001798		BOLT, HEX 1/4-20 x 1.5
765	308146MA		BOOT, CABLE
770	1501570 YZ		BRACKET, SHIFT
771	4058		SCREW
772	50786MA		SPRING, .509 DIA X0.75
773	71072		WASHER, FLAT
774	71046		NUT, HEX
785	71045		NUT, HEX
787	304728MA		KNOB, SHIFT
790	578926		ROD, ASSY LH
791	578924		ROD, ASSY RH
795	579002		BRACKET, CAM
796	002X53MA		SCREW
798	71038		NUT, NYLOCK
799	8417MA		CAM LOCK
800	584673MA		PIN, SPRING PIVOT SHC
801	73664MA		NUT, PUSH ON
802	71081		PIN, COTTER
803	71071		FLATWASHER
804	1501733		ROD, SPEED CONTROL
805	71042MA		NUT.31-24 HEX
806	6352MA		ADAPTOR,ROD SPEED YL
808	50782MA		BALLJOINT,STEEL YZ
809	71060		WASHER
810	71042MA		NUT.31-24 HEX
811	579944MA		BRNG FL .500ID X .88
812	1501110 YZ		ROD, YOKE
813	11X30MA		RETAINER, RING 7/16 Y

Headlight



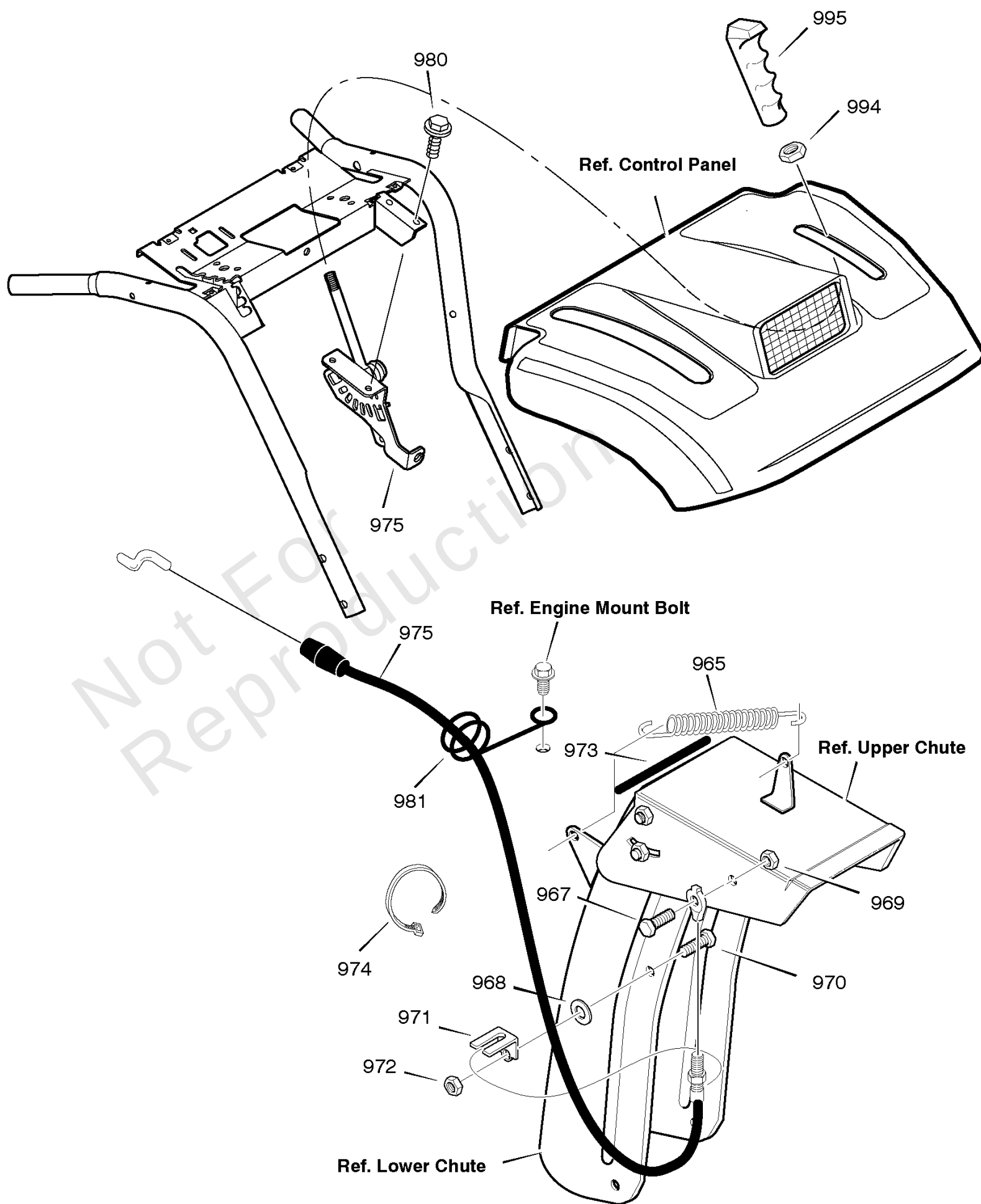
Headlight

REF NO	PART NO	QTY	DESCRIPTION
621	762343MA		LIGHT, HALOGEN
622	1501455MA		HARNESS,LIGHT HAL P4P
625	071372MA		TIE,STRAP-REMOVABLE
626	578921		BRACKET, LIGHT
627	901696		SCREW #8 X .50
628	901736		WASHER, FLAT
629	1501401MA		COVER
630	1501402		COVER
631	1501330		FRAME
632	028X79MA		NUT, PUSH

Remote Control

Note: Unless noted otherwise, use the standard torque specifications

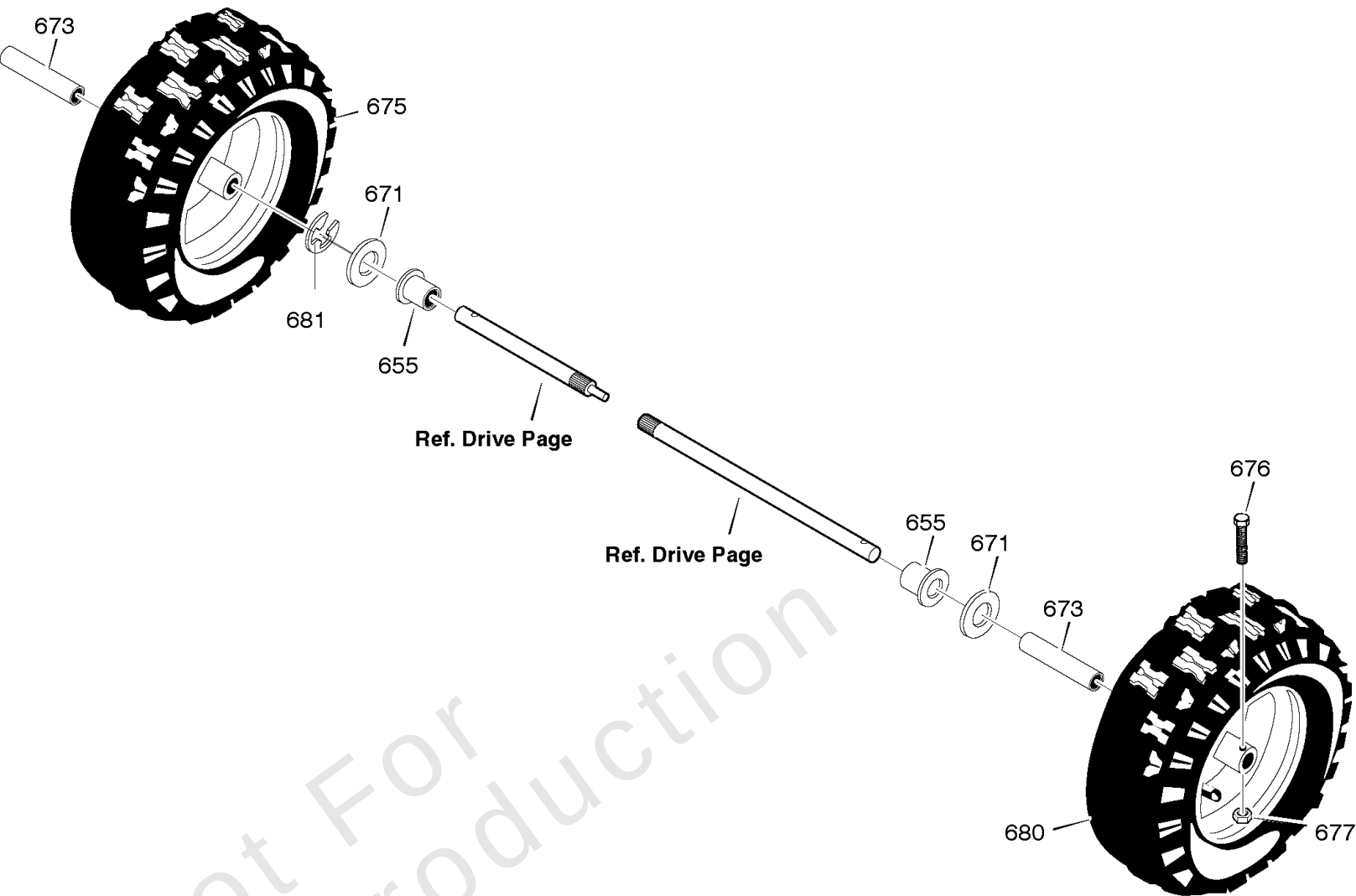
Mfg. No: 629109x85A



Remote Control

REF NO	PART NO	QTY	DESCRIPTION
965	318468MA		TENSION SPRING
967	310088MA		BOLT-SHD.250X.312 .25
968	73787MA		WASHER, FLAT .330X .
969	15X143MA		NUT,25-20 HEX FLG CTR
970	313676		SCREW, 5/16-18 x 0.75
971	306447 YZ		BRACKET, CABLE CHUTE
972	71391		NUT, 5/16-18
973	1001221MA		TRIM,BLACK W/ADHESIVE
974	071372MA		TIE,STRAP-REMOVABLE
975	1501393MA		CABLE, CHUTE DEFLECTOR
980	760858MA		SCREW
981	780220MA		WIRE FORM,REMOTE CHUT
994	71045		NUT, 3/8-16
995	306689MA		KNOB, SHIFT

Wheels



Wheels

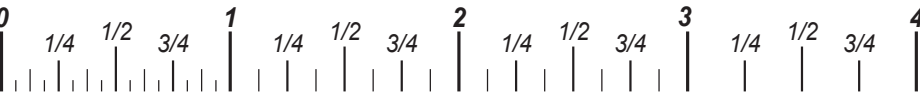
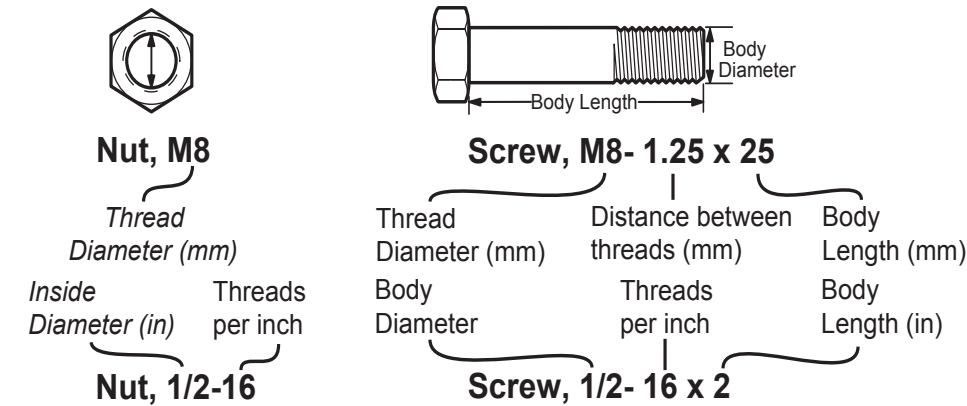
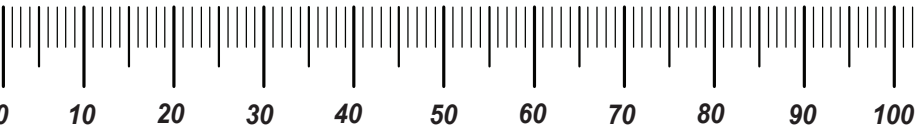
REF NO	PART NO	QTY	DESCRIPTION
655	1501114MA		BEARING,AXLE
671	712120MA		FLATWASHER
673	1501138MA		BUSHING, WHEEL
675	1501839MA		TIRE & RIM, LEFT
676	577015MA		SCREW, SHR 1/4-20X1.7
677	15X145MA		NUT, 1/4-20 HEX NYLOCK
680	1501838MA		TIRE & RIM, RIGHT
681	239MA		RETAINER, RING

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).

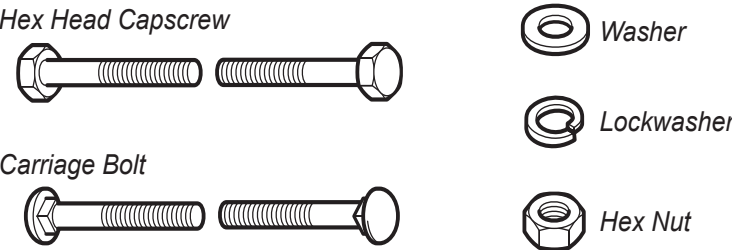
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

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