



Parts Manual

Mfg. No: 629109x31C
Dual Stage Snow Thrower (2002)

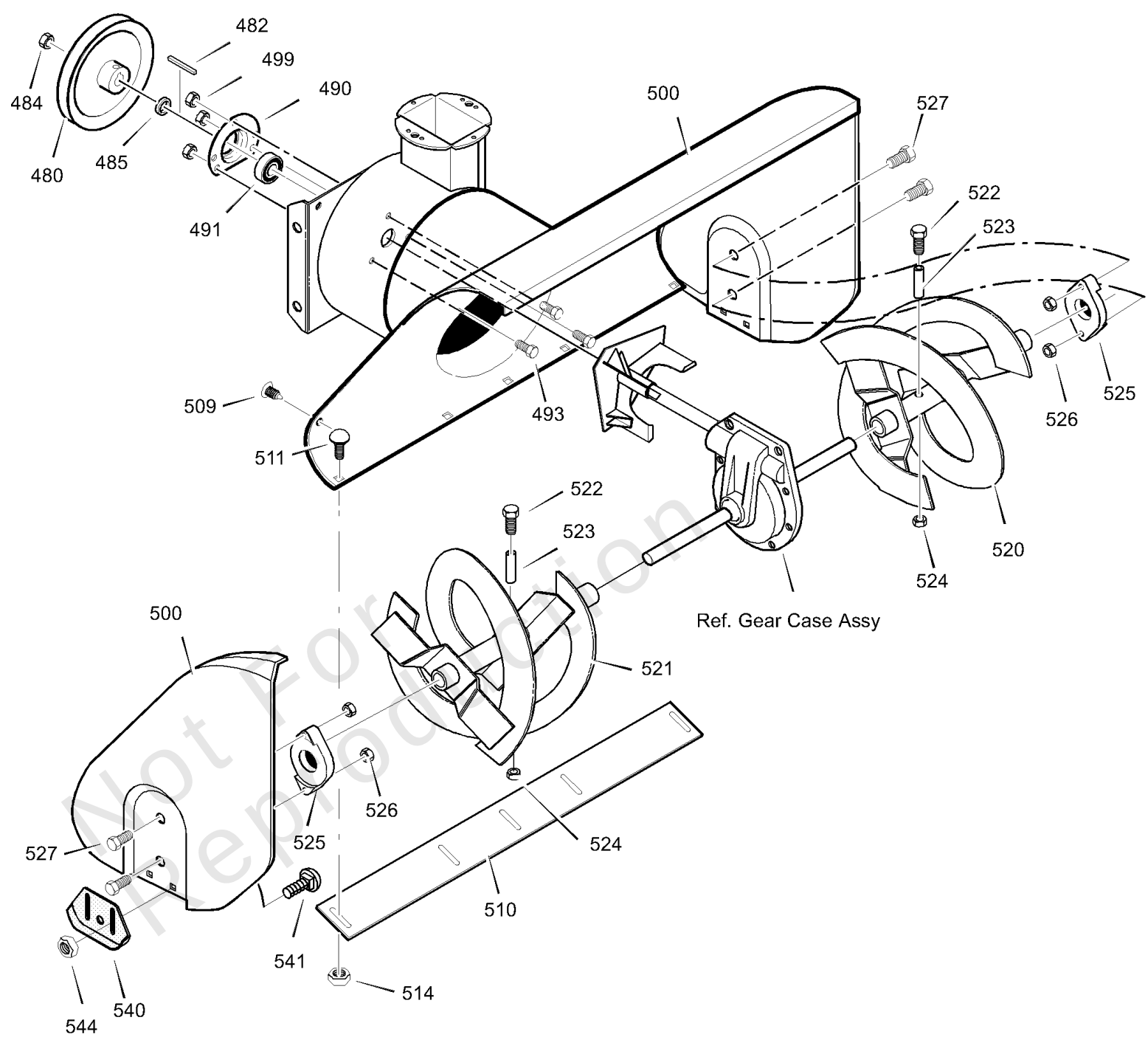
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Not For
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Auger Housing

Note: Unless noted otherwise, use the standard torque specifications

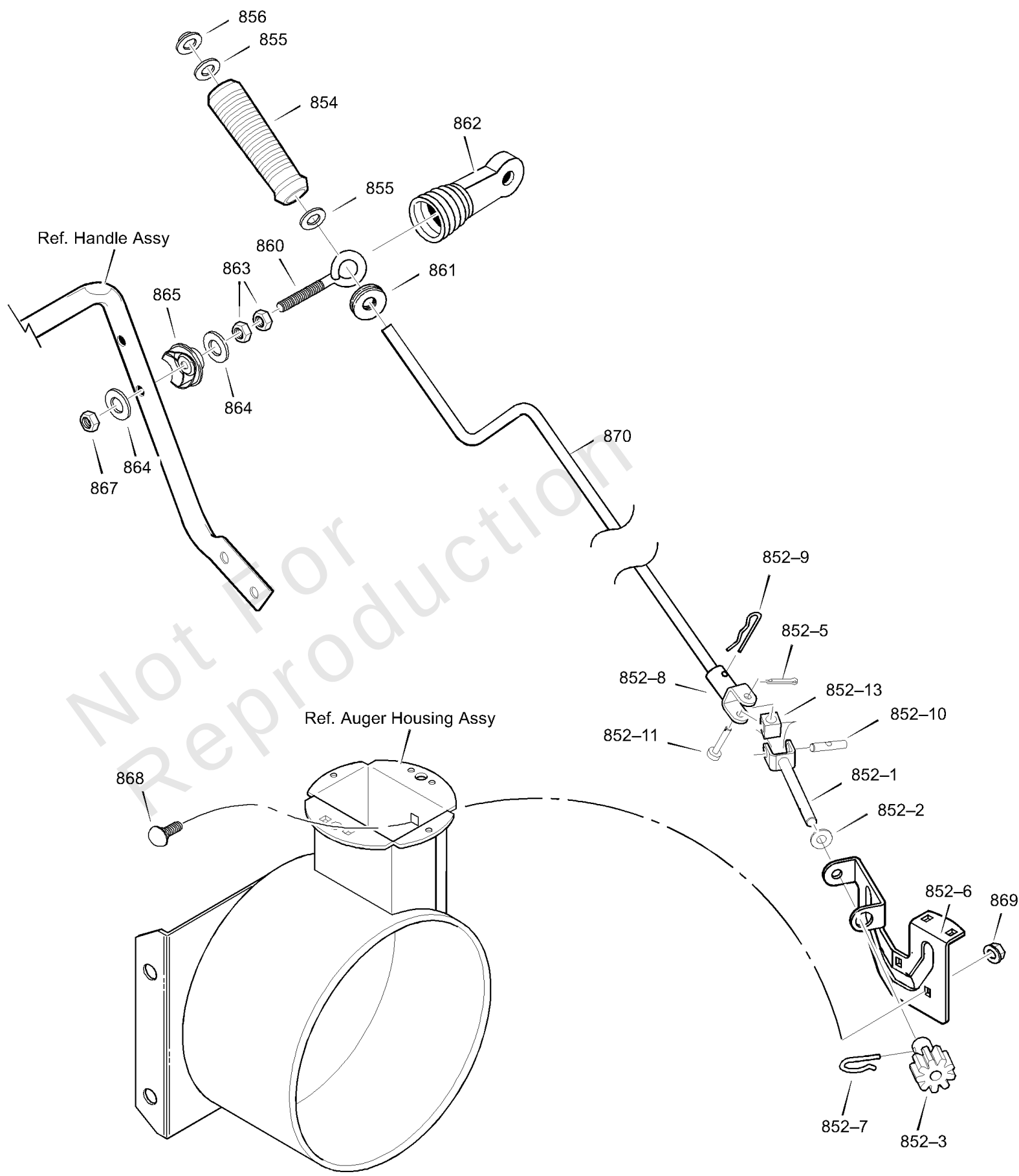
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Auger Housing

REF NO	PART NO	QTY	DESCRIPTION
480	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	043846		BEARING, BALL
493	001X92MA		BOLT, HEX 5/16-18X .50
499	710026		NUT, 5/16-18 HEXWDFLLK
500	1501121E700		HOUSING, ASSY
509	760040MA		PLUG, CHRISTMAS TREE
510	760655E700		BLADE, SCRAPER 29"
511	340720MA		BOLT, 5/16-18X.75
514	710026		NUT, 5/16-18
520	760597E717		AUGER, ASSY, LH
521	760598E717		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
526	711862MA		NUT, 5/16-18
527	70984		SCREW, 5/16-18 x 0.75
540	762377E700		SKID, HEIGHT ADJUST
541	340720MA		BOLT, 5/16-18 X .75
544	710026		NUT, 5/16-18

Chute Rod



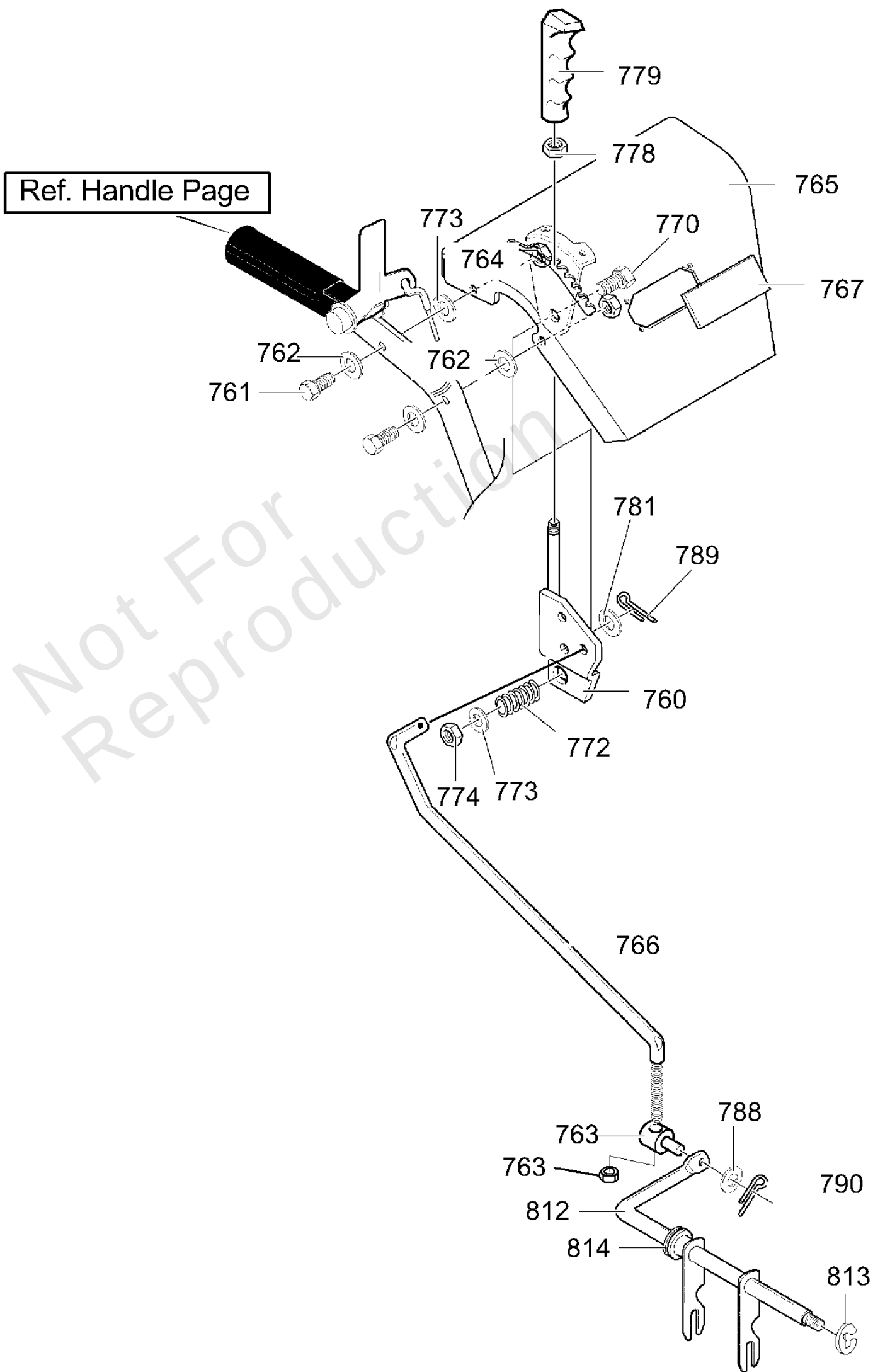
Chute Rod

REF NO	PART NO	QTY	DESCRIPTION
852-1	1501309 YZ		ASSEMBLY, YOKE & ROD
852-2	313431MA		WASHER, CURVED SPRING
852-3	1501067MA		GEAR,9 TOOTH 8DP
852-5	579493MA		PIN, COTTER .06X .50
852-6	1501306E717MA		BRACKET, GEAR MOUNT
852-7	1501293MA		PIN-HAIR, CHUTE GEAR
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
852-13	578063MA		BLOCK,UNIVERSAL PIVOT
854	307399MA		KNOB, SLEEVE
855	309312MA		WASHER, FLAT .39 X .7
856	73664MA		NUT, PUSH ON 3/8"
860	581618MA		EYEBOLT.38-16X6.00 .6
861	148MA		GROMMET, Eyelet
862	308145MA		BOOT, EYE BOLT
863	71045		NUT, 3/8-16 HEXJAM
864	71072		FLATWASHER .406X.81X.066
865	309344MA		ADAPTER, BOOT
866	71072		WASHER, FLAT
867	71046		NUT, 3/8-16 HEXNYL
868	002X98MA		BOLT, CARRIAGE 1/4-20 X 1.00
869	15X145MA		NUT, 1/4-20
870	1501074 YZ		CRANK, ASSY CHUTE

Control Panel Assembly

Note: Unless noted otherwise, use the standard torque specifications

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Control Panel Assembly

REF NO	PART NO	QTY	DESCRIPTION
760	85030 YZ		HANDLE ASSY SPD CTRL
761	302900MA		SCREW, 5/16-18 x 1.75
762	71042MA		NUT.31-24 HEX
763	584593		NUT, TRUNNION
764	710026		NUT, 5/16-18 HEXWDFLLK
765	760328-898		ASSY. BAY LT
766	1501537		ROD, SPEED CONTROL
767	578978		PLATE, BLANKING LIGHT
770	71007		SCREW 3/8-16X2.00
772	50786MA		SPRING,.509 DIA X0.75
773	71072		FLATWASHER
774	71046		NUT, 3/8-16 HEXNYL
778	71044		NUT, 3/8-16 REGHEX
779	-----		UNKNOWN
781	71071		FLATWASHER
784	304728MA		HANDLE 3/8-16
788	71071		FLATWASHER
789	071081		PIN, COTTER
790	071081		COTTER PIN
812	1501110 YZ		ROD, ASSY YOKE
813	11X30MA		RETAINER, RING 7/16 Y
814	579944MA		BRNG FL .500ID X .88

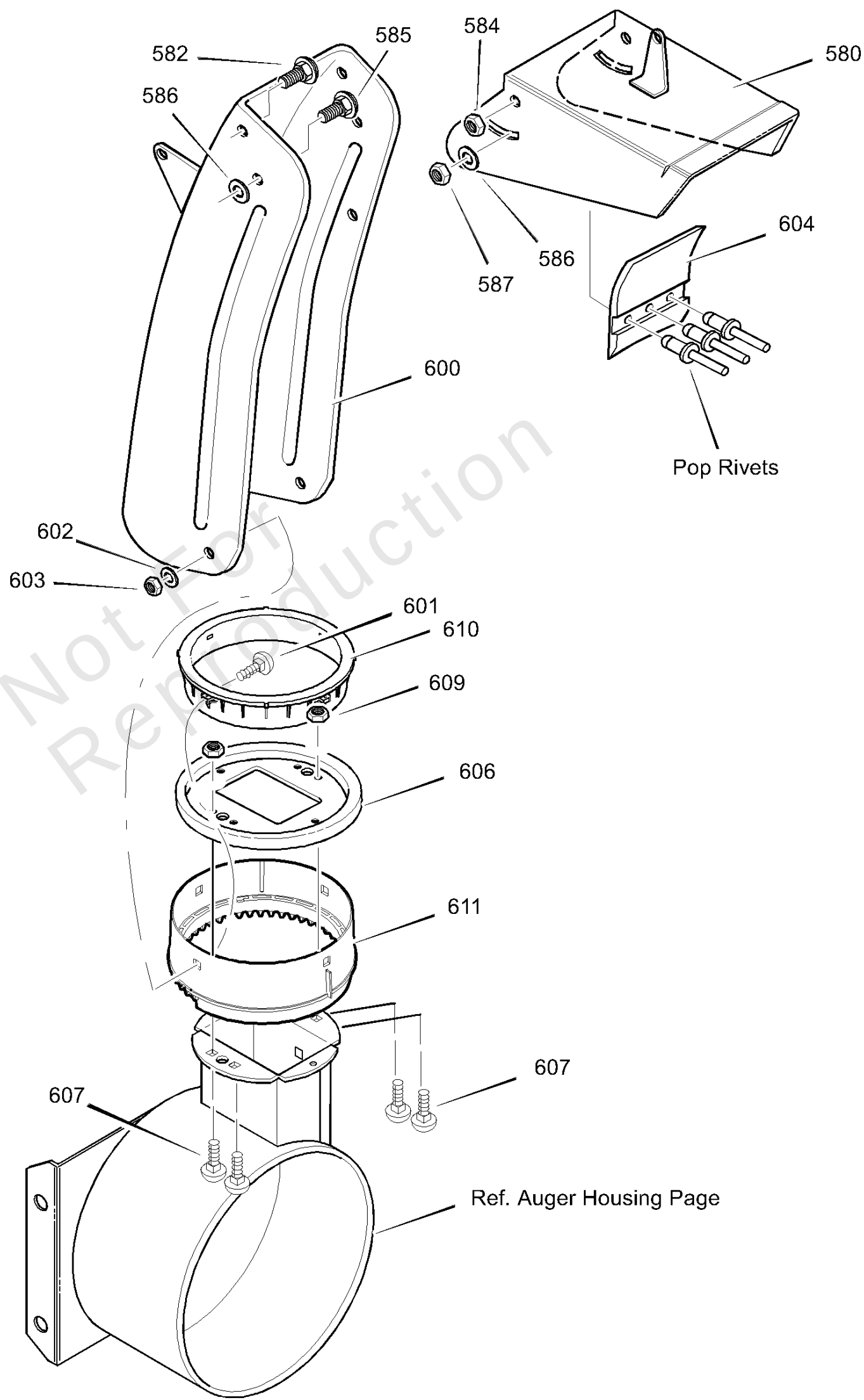
No
Diagram
Available

Parts List
Only

Decals

REF NO	PART NO	QTY	DESCRIPTION
	48X2008		DECAL, M SELECT C/PNL -(Not Illustrated)
	48X257		DECAL, SPEED SELECT -(Not Illustrated)
	48X4068MA		DECAL, SINGLE HAND CONTROL -(Not Illustrated)
	950838		DECAL, OVER ADJ OF DISC -(Not Illustrated)
	48X2035MA		DECAL, DANGER CHUTE HAND -(Not Illustrated)
	48X2010		DECAL, 10/29 -(Not Illustrated)
	48X2037MA		DECAL, DANGER FOOT -(Not Illustrated)
	5131		DECAL, BELT STRETCH -(Not Illustrated)
	48X4089		DECAL, REMOTE CHUTE -(Not Illustrated)

Discharge Chute



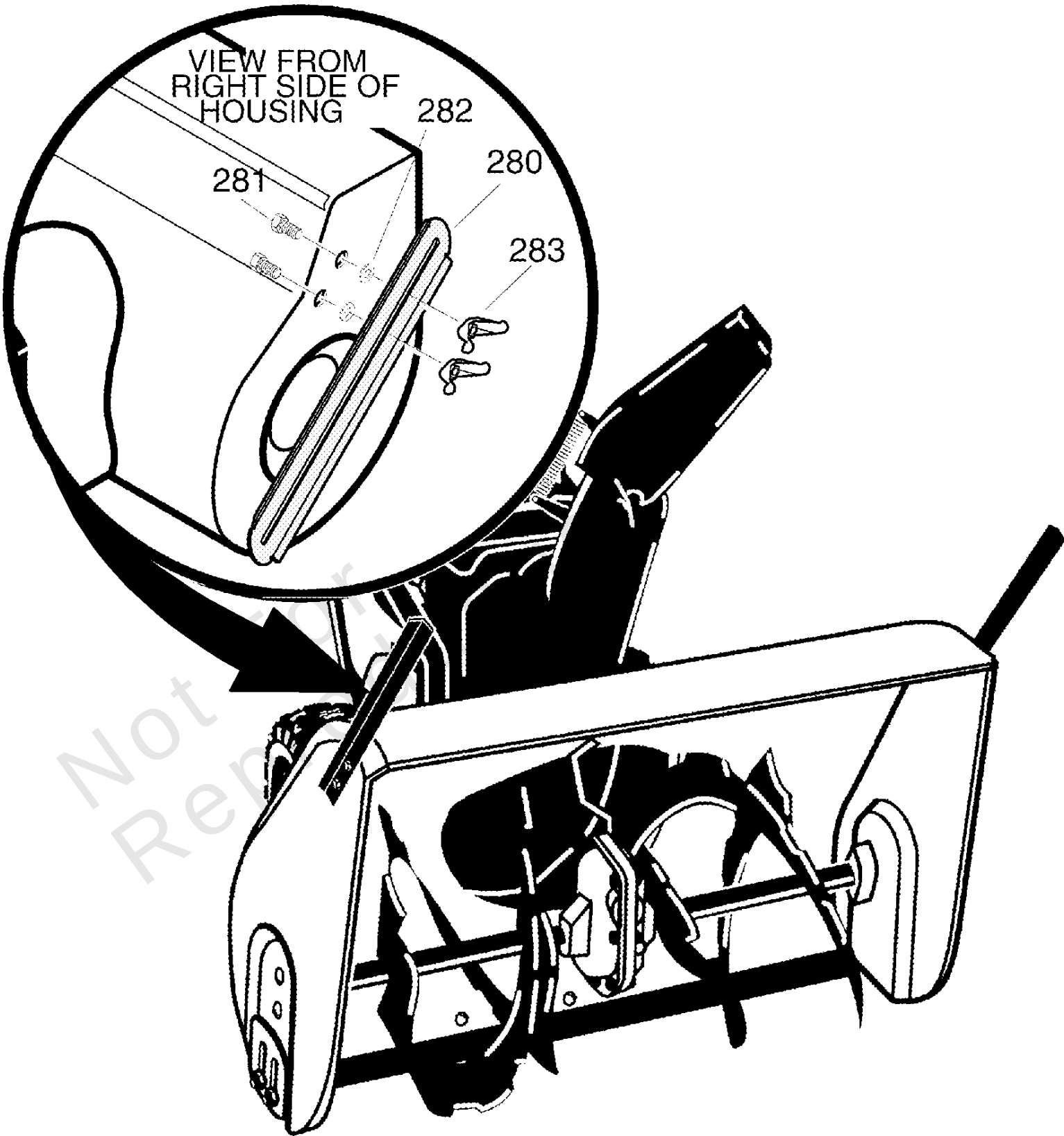
Discharge Chute

REF NO	PART NO	QTY	DESCRIPTION
580	761168E717		CHUTE, UPPER W/REMOTE
582	578088MA		SCREW, 5/16-18X .75SL
584	71038		NUT
585	578088MA		SCREW, 5/16-18X .75SL
586	6711MA		WASHER, PLASTIC .315X
587	71038		NUT
600	761169E717		CHUTE, LOWER W/REMOTE
601	586280		BOLT
602	71071		WASHER, FLAT
603	71038		NUT
604	762322MA		FLAP, C3 CHUTE INSERT
605	760987MA		RIVET,POP ALM.125X.23
606	585214 YZ		CHUTE COLLAR
607	340714MA		BOLT
609	15X145MA		NUT
610	337227MA		RETAINER, RING INNER
611	1501282MA		RING,OUTER CHUTE

Drift Cutter Assembly

Note: Unless noted otherwise, use the standard torque specifications

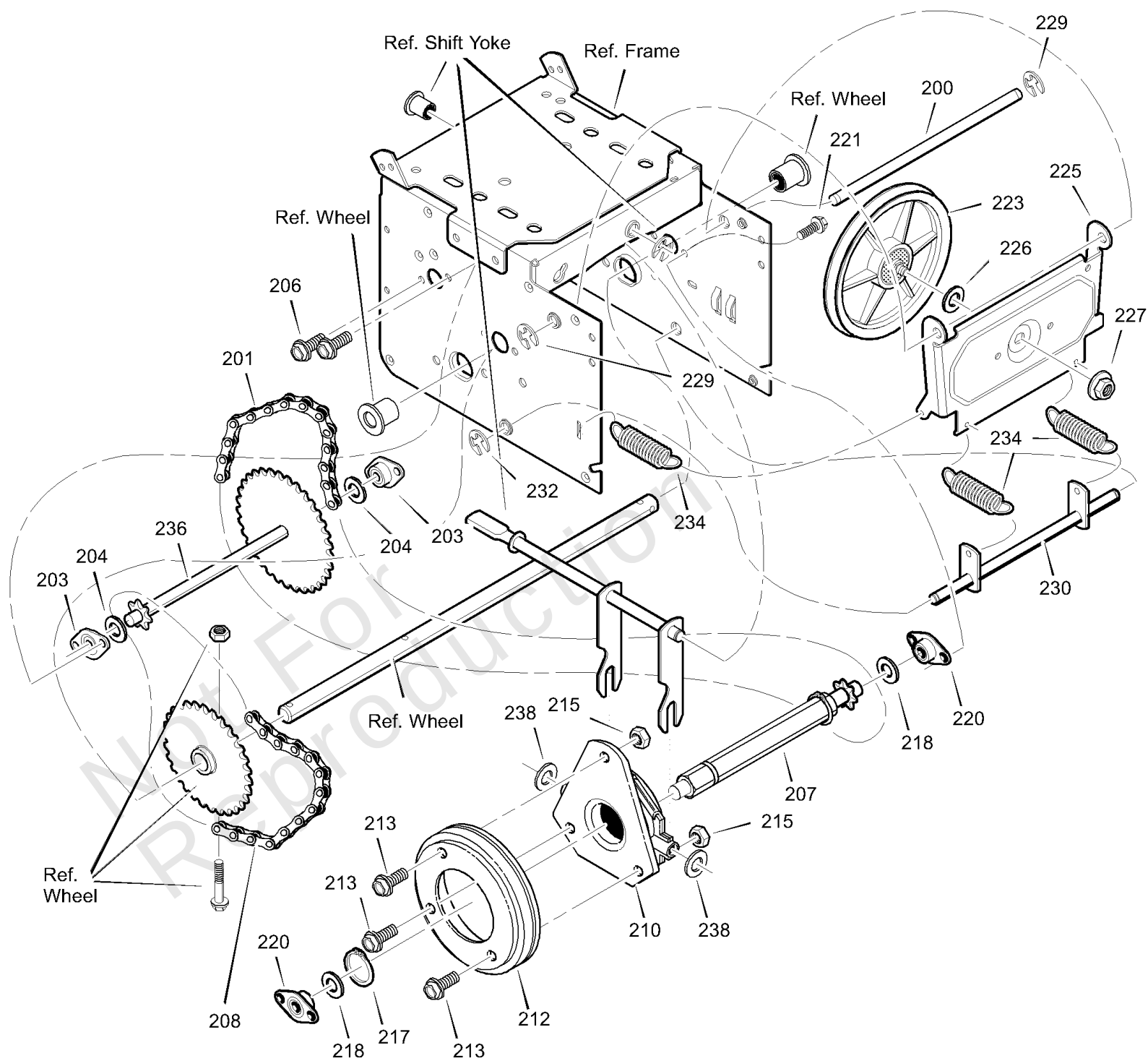
Mfg. No: 629109x31C



Drift Cutter Assembly

REF NO	PART NO	QTY	DESCRIPTION
280	762348E717MA		DRIFT CUTTER
281	340720MA		BOLT
282	12021		WASHER
283	711604		WINGNUT

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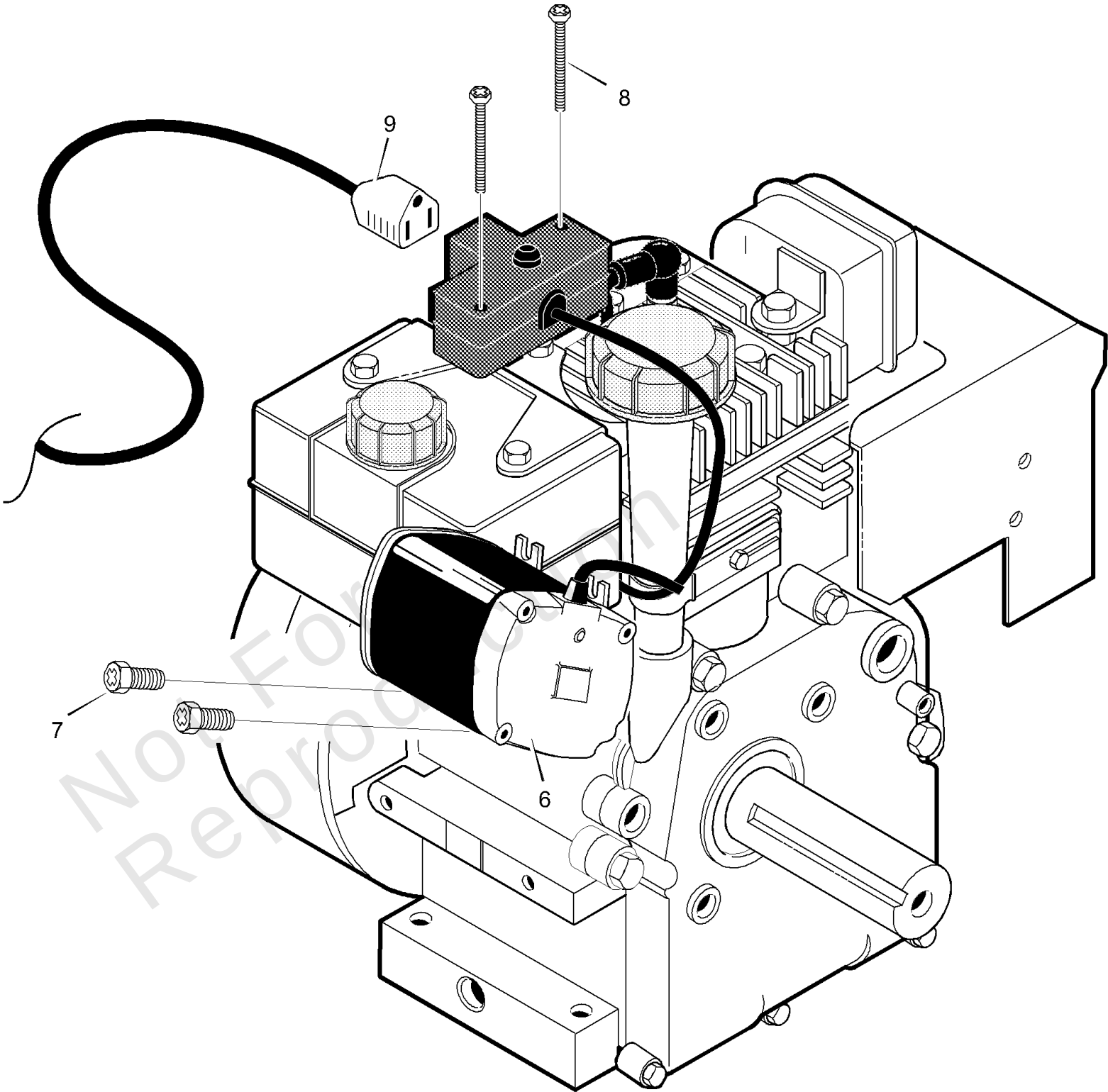
Drive

REF NO	PART NO	QTY	DESCRIPTION
200	1501092 YZ		LF AXLE, SWING PLATE YZ
201	579851MA		CHAIN, ROLLER 420X19.
203	334163MA		BEARING AND RETAINER, ASSY
204	579858MA		WASHER.502-0.75-.06 F
206	780055MA		SCREW, TAP 5/16-18 x 0.5
207	1501100MA		HEX SHAFT
208	579868MA		CHAIN,ROLLER 420X18.0
210	337029MA		BEARING, TRUNION CLUTCH R
212	1501435MA		WHEEL,FRICTION 4.3 RU
213	001X38MA		SCREW, 1/4-20 x 0.63
215	303008MA		NUT, KEPS HEX 1/4-20
217	579859MA		RING,RETEXT .54X.03TR
218	579858MA		WASHER.502-0.75-.06 F
220	334163MA		BEARING AND RETAINER, ASSY
221	780055MA		SCREW, TAP 5/16-18 X .50
223	1501115MA		ASSY., 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	1501107 YZ		LF ASSY, SPRING LINK YZ
232	11X30MA		RETAINER, RING 7/16 Y
234	165X112MA		SPRING, EXTENSION
236	1501090MA		WLD, INTERMED SPROCKET 33T/7
238	71074		WASHER, FLAT

Electric Start Assembly

Note: Unless noted otherwise, use the standard torque specifications

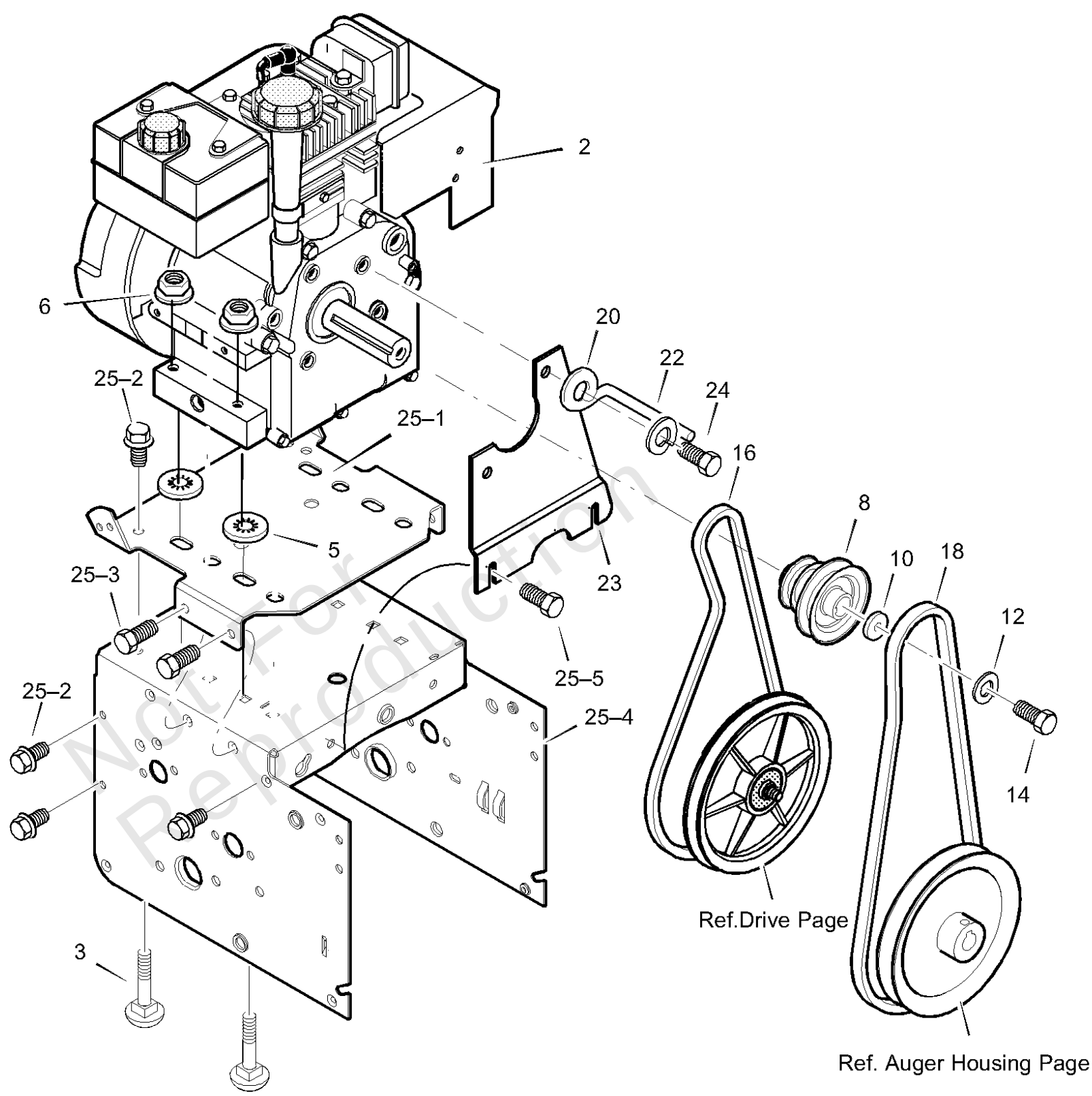
Mfg. No: 629109x31C



Electric Start Assembly

REF NO	PART NO	QTY	DESCRIPTION
6	6218		MOTOR, STARTER
7	6216		SCREW
8	6217		SCREW
9	6219MA		CORD, Electric, 10FT. 110V

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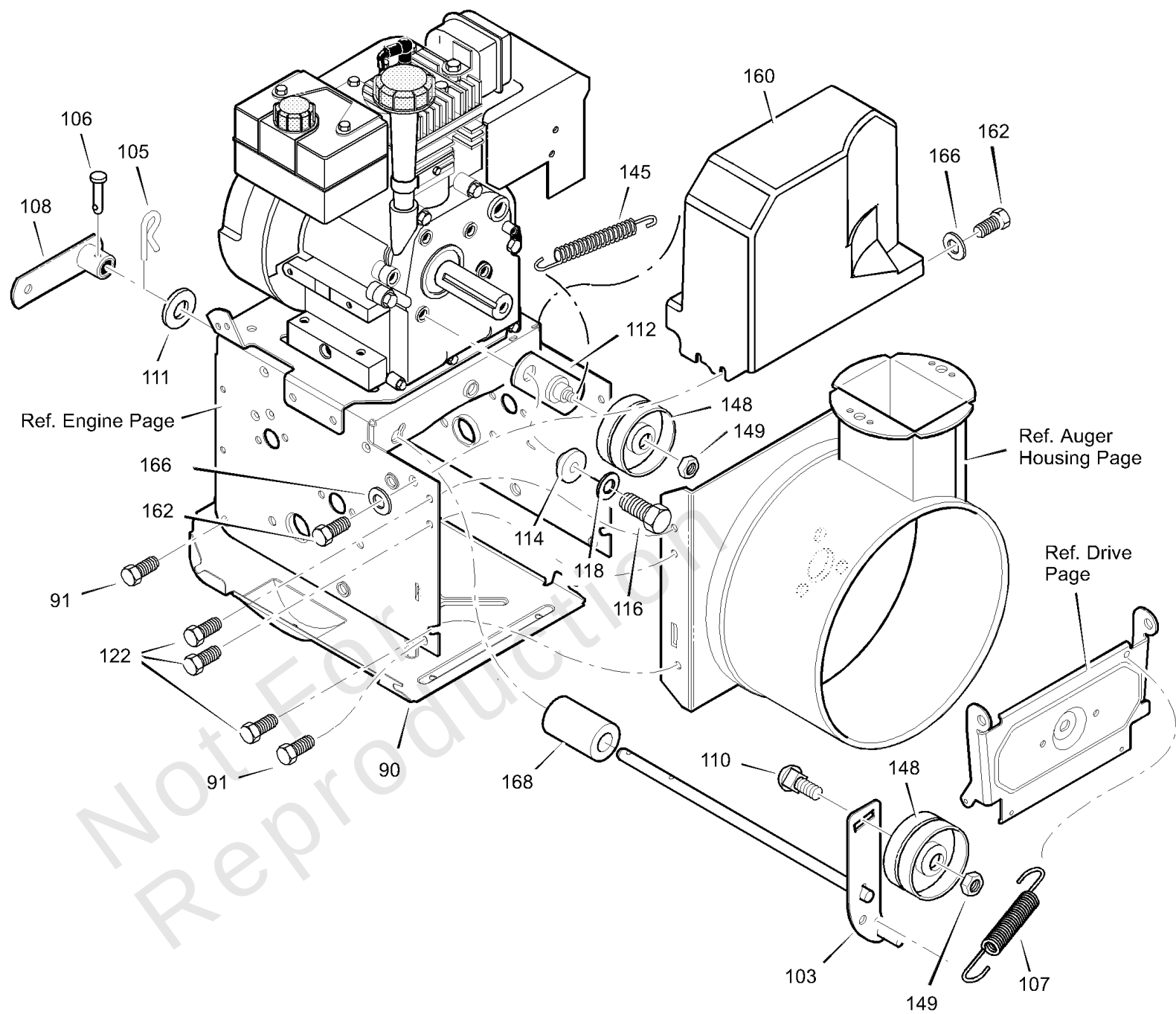
Engine

REF NO	PART NO	QTY	DESCRIPTION
2	-----		ENGINE
3	002X97MA		BOLT, CARRIAGE 5/16-18
5	028X76MA		NUT,SPEED
6	710026		NUT, HEX 5/16-18
8	1501109MA		PULLEY, ENGINE
10	710247		WASHER
12	71063		WASHER .38ID
14	71015		SCREW, 3/8-24 x 1.00
16	579932MA		BELT, V 3L 33.13LG
18	585416MA		BELT
20	1501201MA		GUIDE, BELT
22	071060		WASHER, SPTLK .31X.58X.08
23	1501482MA		PLATE, ANTI VIBRATION
24	910828MA		SCREW, 5/16-24 x 1.00
25	-----		FRAME ASSEMBLY
25-1	1501062E700		PLATE, ENGINE MOUNT
25-2	310169MA		SCREW, 1/4-20X .63 WA
25-3	780055MA		SCREW, TAP 5/16-18 X .50
25-4	1501049E700		FRAME, MOTOR BOX
25-5	26X263MA		SCREW.25-20 S-T
--	F-021069L		OWNER'S MANUAL

Frame

Note: Unless noted otherwise, use the standard torque specifications

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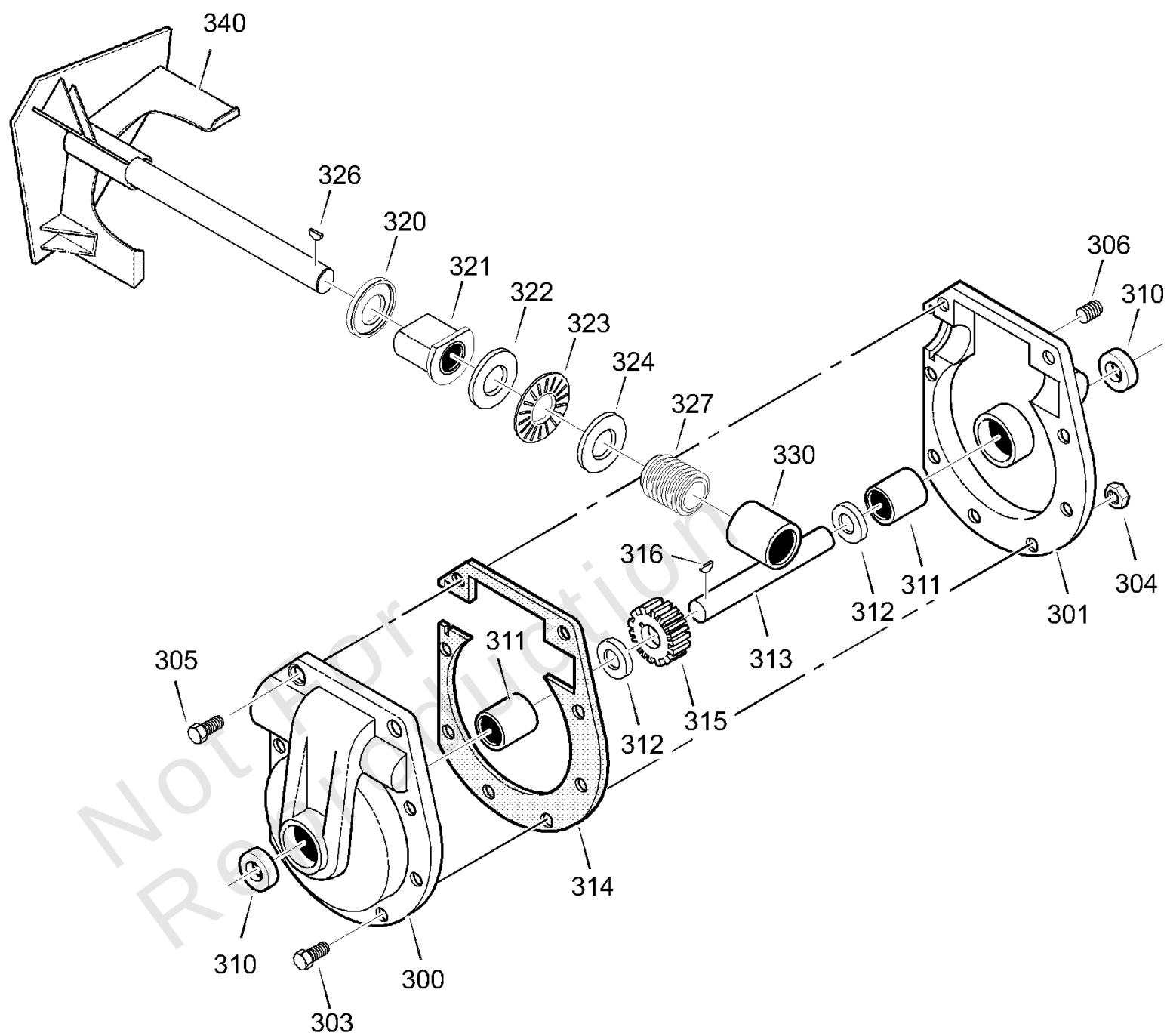
Frame

REF NO	PART NO	QTY	DESCRIPTION
90	1501055E700		COVER, BOTTOM
91	310169MA		SCREW, 1/4-20X .63 WA
103	1501226 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
112	1501112 YZ		BRACKET ASSEMBLY, IDLER
114	1501065MA		BUSHING, IDLER BRKT
116	910828MA		SCREW 5/16-24 X 1.00
118	071060		WASHER, SPLIT
122	780055MA		SCREW, TAP 5/16-18 X .50
145	165X163		SPRING, IDLER TRACTION DRIVE
148	50793MA		PULLEY, IDLER
149	590		NUT, JAM 3/8-16
160	1501172		COVER, BELT
162	26X306MA		SCREW, TAP 1/4-20 X .63
166	71067MA		WASHER, FLAT
168	1501200MA		SPACER/AUGER BRKT

Gear Case

Note: Unless noted otherwise, use the standard torque specifications

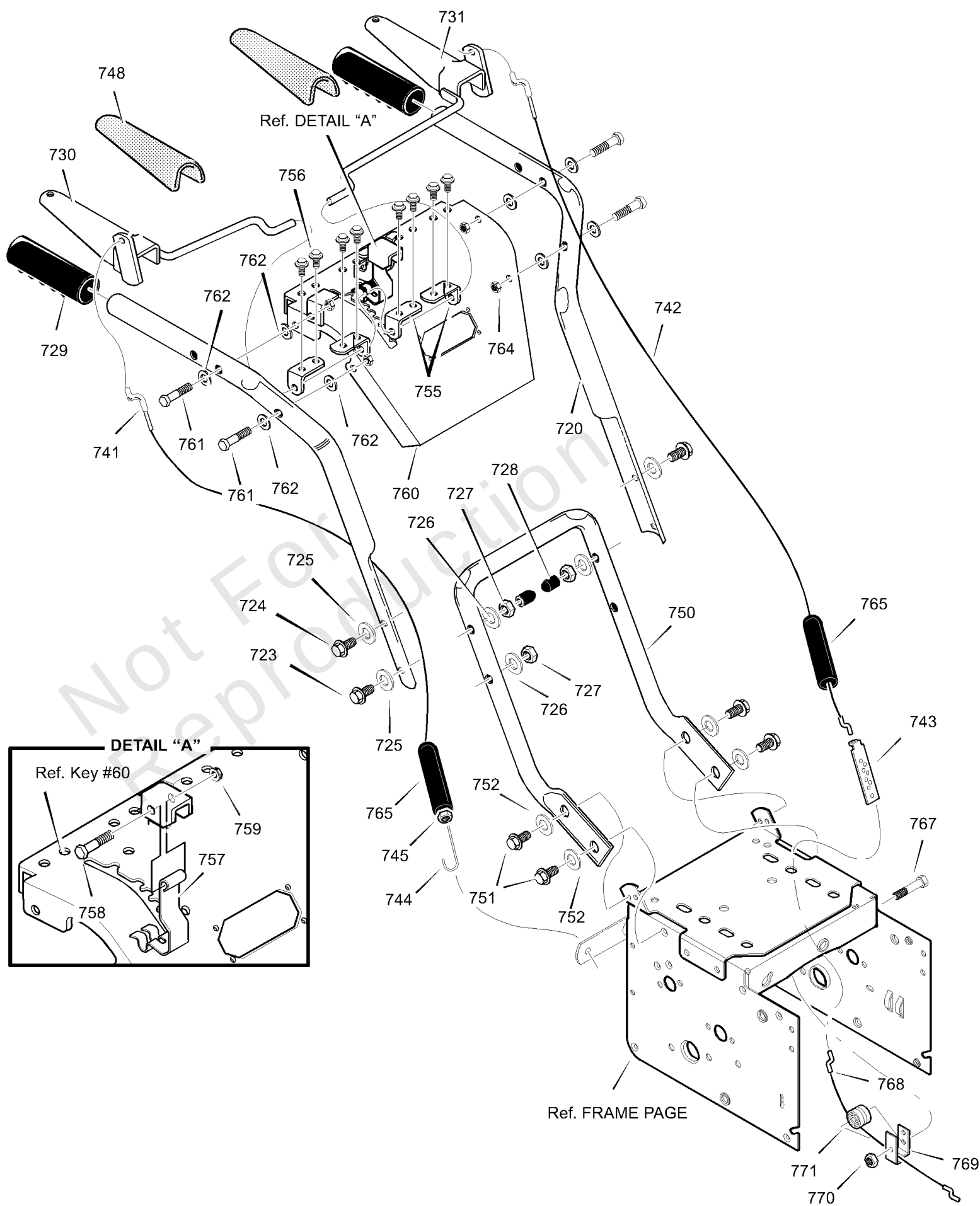
Mfg. No: 629109x31C



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	1501147E717MA		IMPELLER
--	333431MA		LUBRIPLATE, GR132, 14oz

Handle Assembly



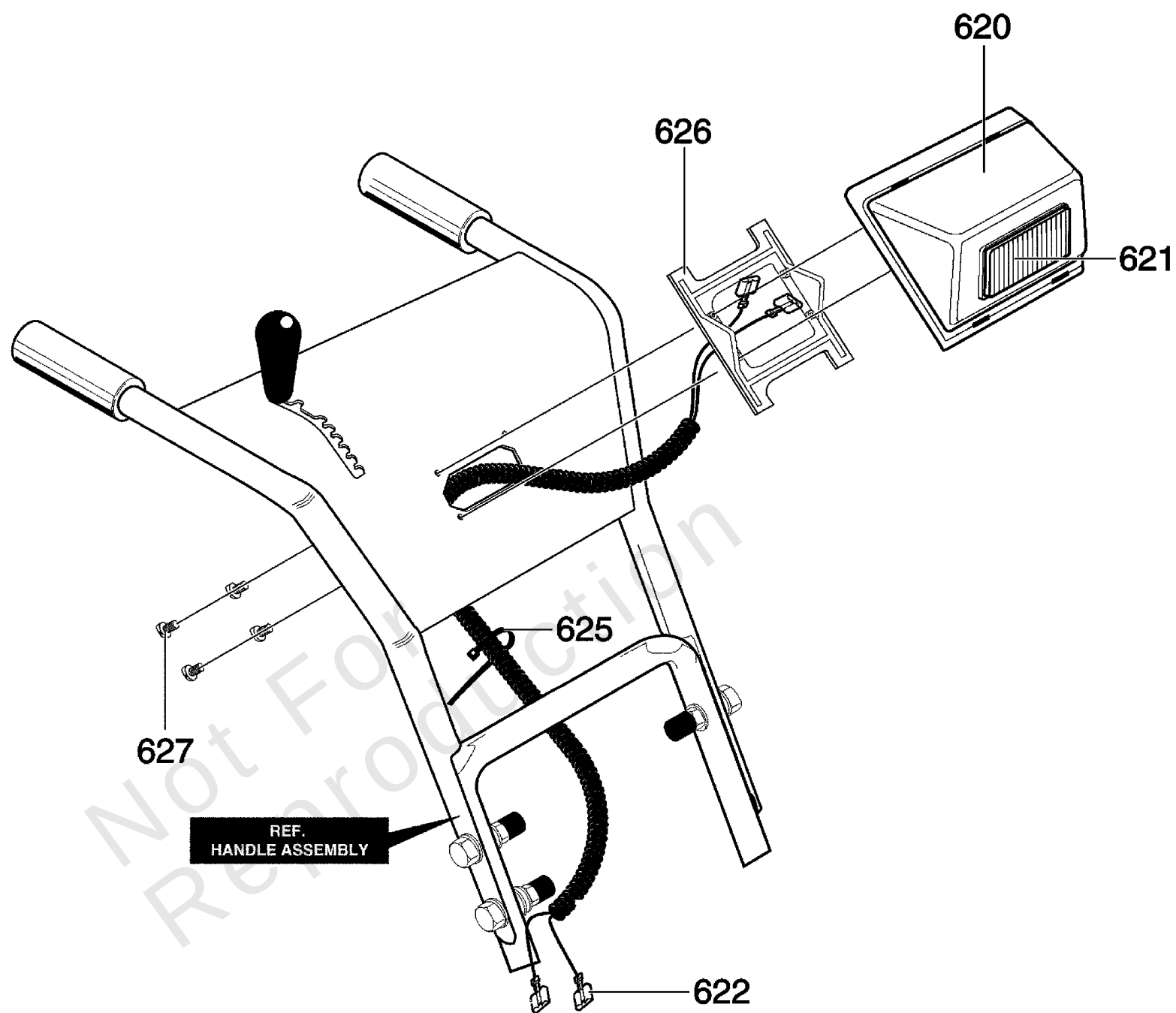
Handle Assembly

REF NO	PART NO	QTY	DESCRIPTION
720	5113E700		HANDLE, UPPER LH
721	5115E700		HANDLE, UPPER RH
723	71007		SCREW
724	7288MA		SCREW, 3/8-16X3.00 HH
725	71072		WASHER, FLAT
726	71062		WASHER, SPTLK
727	71044		NUT, REGHEX
728	7289MA		STOP,PLASTIC.375
729	761209MA		GRIP-HANDLE
730	760290 YZ		LEVER, ASSY CLUTCH DRIVE RH
731	760289 YZ		LEVER, ASSY CLUTCH DRIVE LH
741	761589MA		CABLE, AUGER CLUTCH
742	1501124MA		CABLE, AUGER DRIVE
743	313441MA		BRACKET, CABLE ADJ BL
744	1673MA		SPRING, AUGER CLUTCH,
745	15X145MA		NUT, 1/4-20
748	760992MA		GRIP, CLUTCH HANDLE
750	5543E700		HANDLE, LOWER
751	70984		SCREW, TAP 5/16-18 X .75
752	071060		WASHER, SPTLK
754	70984		SCREW
755	760201 YZ		BRKT, ROD
756	760858MA		SCREW
757	760227MA		SPRING, CAM LOCK
758	45526		BOLT, HEX
759	71038		NUT
760	-----		UNKNOWN
761	302900MA		SCREW
762	71071		WASHER, FLAT
764	710026		NUT, HEXFLNG
765	308146MA		BOOT, CLUTCH SPRING
767	1798		BOLT, HEX 1/4-20 X 1.50
768	1501122MA		CABLE, LOWER DRIVE 12"
769	1501059 YZ		BRACKET, CABLE SPOOL YZ
770	15X145MA		NUT
771	579860MA		SPOOL-CABLE, AUGRT CLUTCH

Headlight

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Headlight

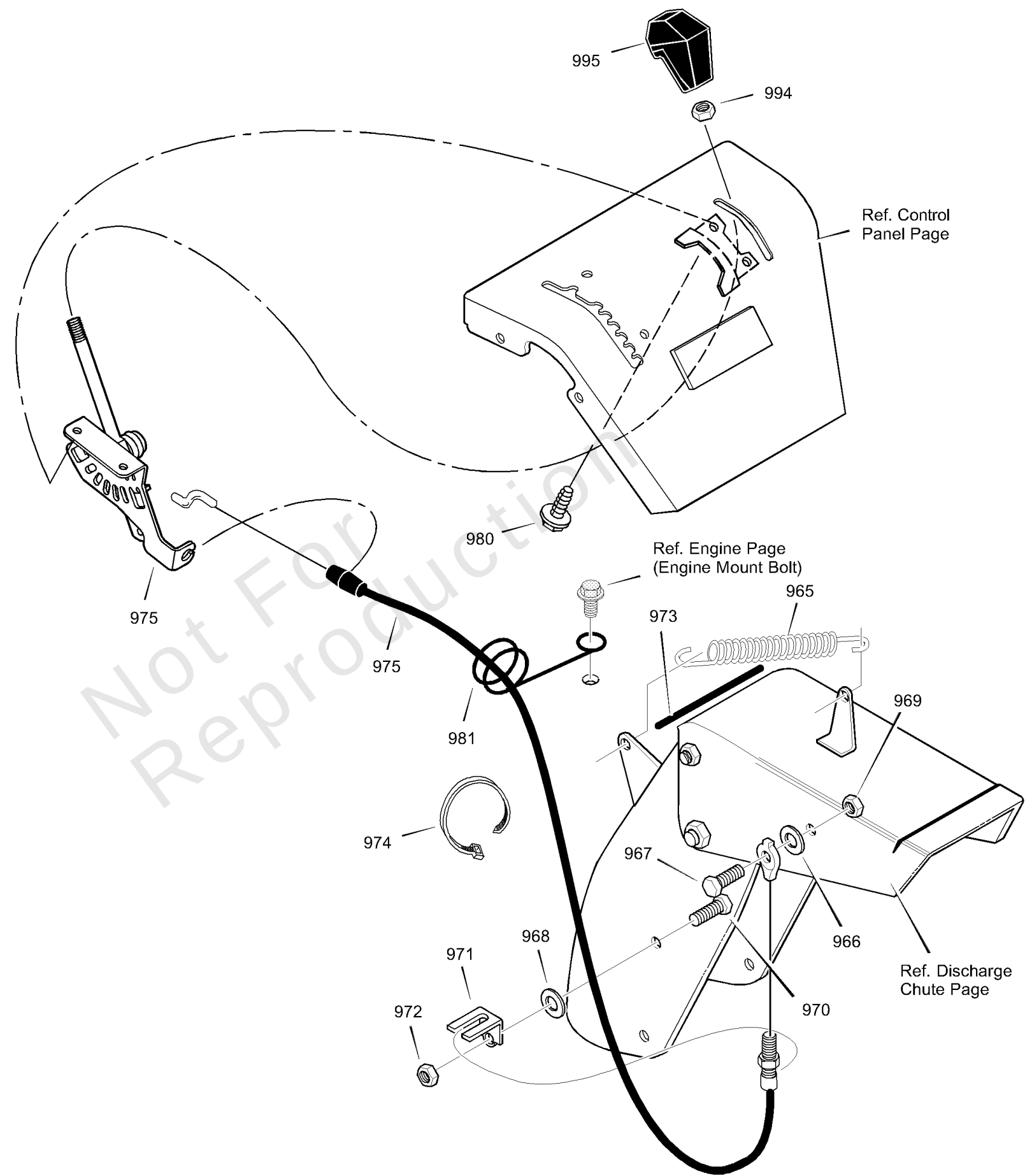
REF NO	PART NO	QTY	DESCRIPTION
620	584731MA		HEADLAMP HOUSING
621	762343MA		HEADLIGHT ASSY
622	1501036MA		WIRE, HARNESS
625	071372MA		TIE,STRAP-REMOVABLE
626	584732MA		BRACKET, HEADLAMP
627	316042MA		SCREW, 10X.62 UNSL-HW

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Remote Control

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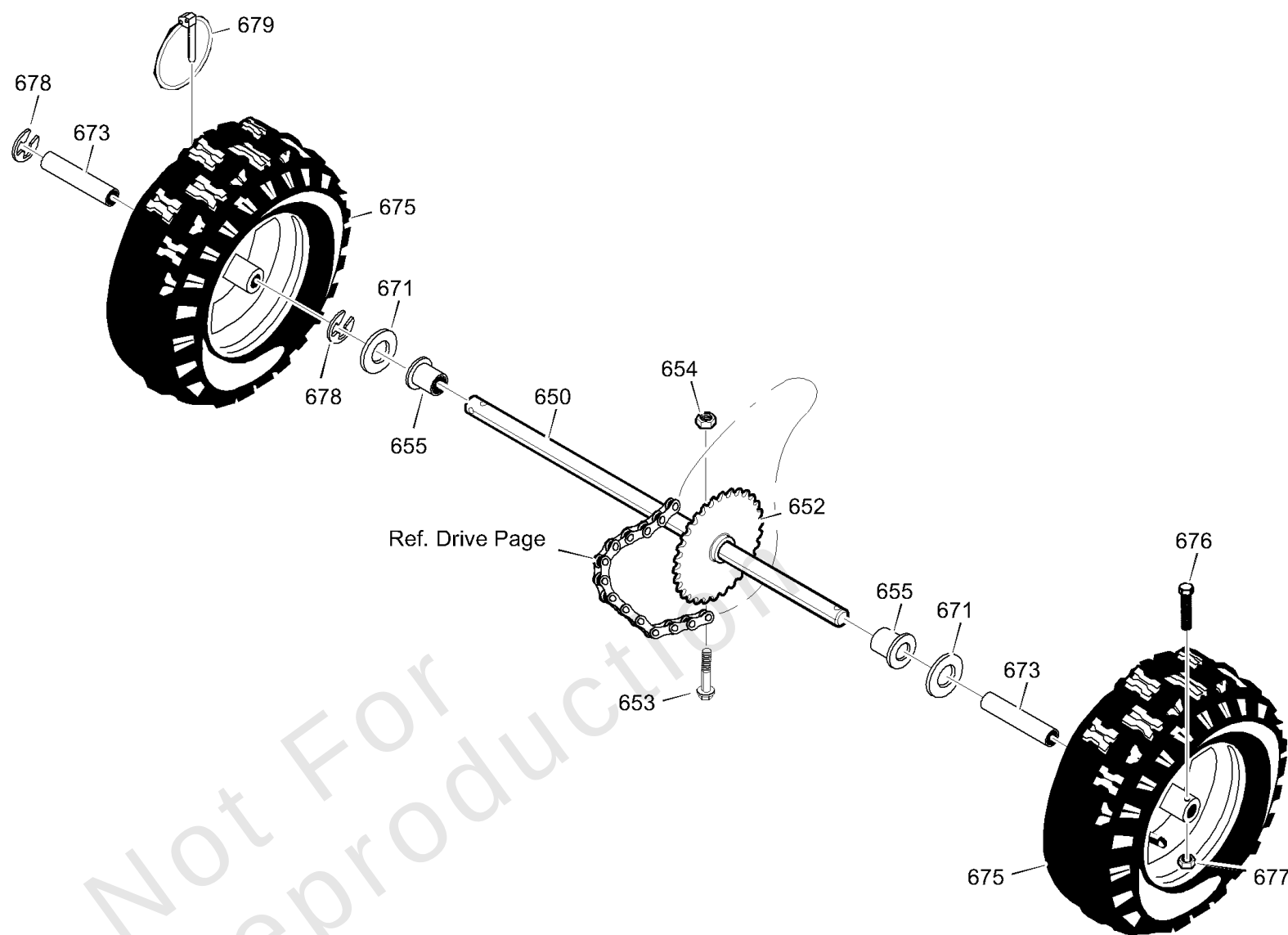
Remote Control

REF NO	PART NO	QTY	DESCRIPTION
965	318468MA		TENSION SPRING
966	711666		FLATWASHER
967	310088MA		BOLT-SHD.250X.312 .25
968	73787MA		WASHER, FLAT .330X .
969	15X143MA		NUT,25-20 HEX FLG CTR
970	313676		SCREW
971	306447 YZ		BRACKET, CABLE CHUTE
972	71391		NUT
973	095105		TRIM STRIP, GREY
974	760113MA		TIE, CABLE
975	1501393MA		ASSY, CHUTE DEF. CONTROL
980	760858MA		SCREW
981	780220MA		WIRE FORM,REMOTE CHUT
994	71045		NUT
995	304728MA		KNOB, SHIFT (GREY)

Wheels

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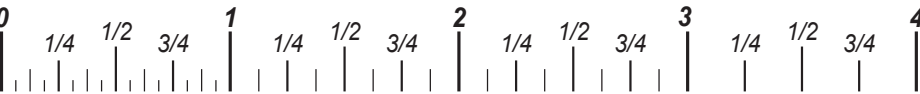
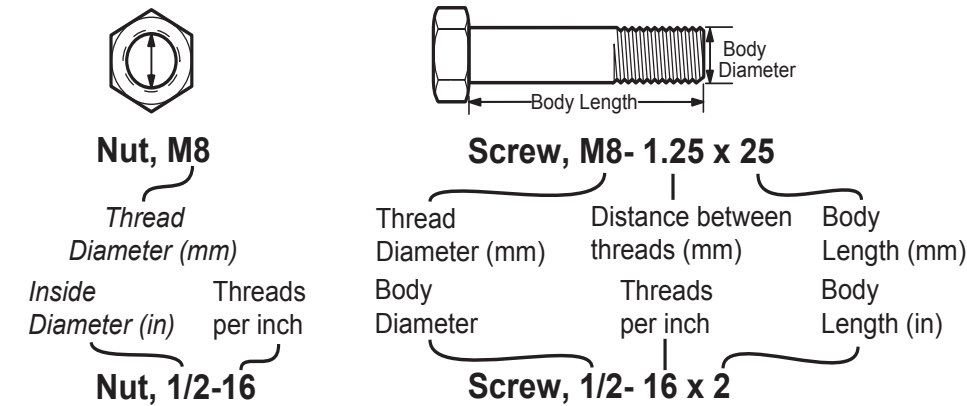
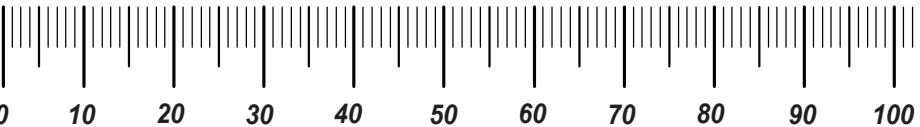
Wheels

REF NO	PART NO	QTY	DESCRIPTION
650	1501284		SHAFT, AXLE
652	1501089		SPRKT & HUB
653	01X193MA		SCREW, 1/4-20X1.75
654	15X145MA		NUT, 1/4-20 HEX NYLOCK
655	1501114MA		BEARING,AXLE
671	712120MA		FLATWASHER
673	1501138MA		BUSHING, WHEEL
675	584535MA		TIRE & RIM
676	577015MA		SCREW, SHR 1/4-20X1.7
677	15X145MA		NUT, 1/4-20 HEX NYLOCK
678	239MA		RING, RET
679	73842MA		PIN, KLIK .25 X 1.38 DIA

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).

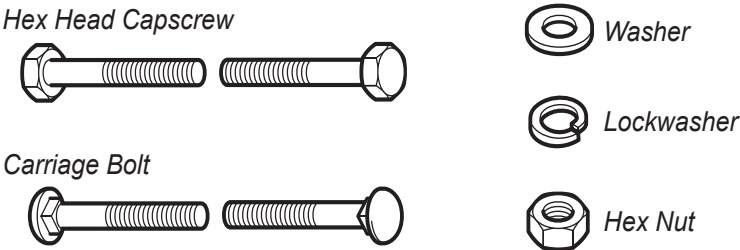
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

