



Parts Manual

Mfg. No: 6220530x110N
18-2811-88 Castelgarden SN 5022 RS,
Single Stage Snow Thrower (2007)

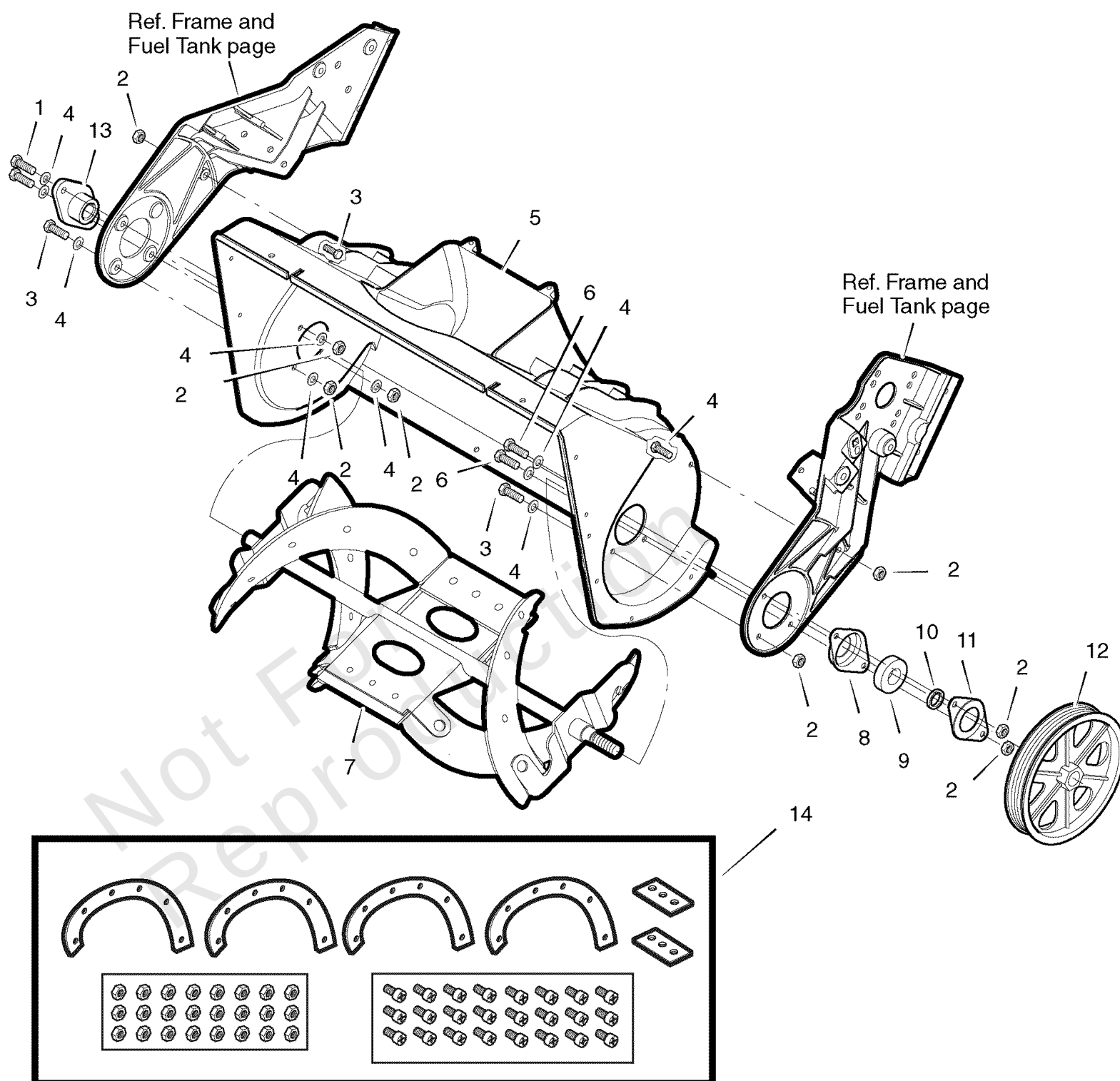
Model Components	Page
Auger And Housing.....	4
Body Covering.....	6
Chute Guard.....	8
Chute System.....	10
Decals.....	12
Engine Drive System.....	14
Frame And Fuel Tank.....	16
Handle Assembly.....	18
Rewind Starter.....	20
Wheel Assembly.....	22
Torque Specification Chart.....	24

Not For
Reproduction

Auger And Housing

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 6220530x110N



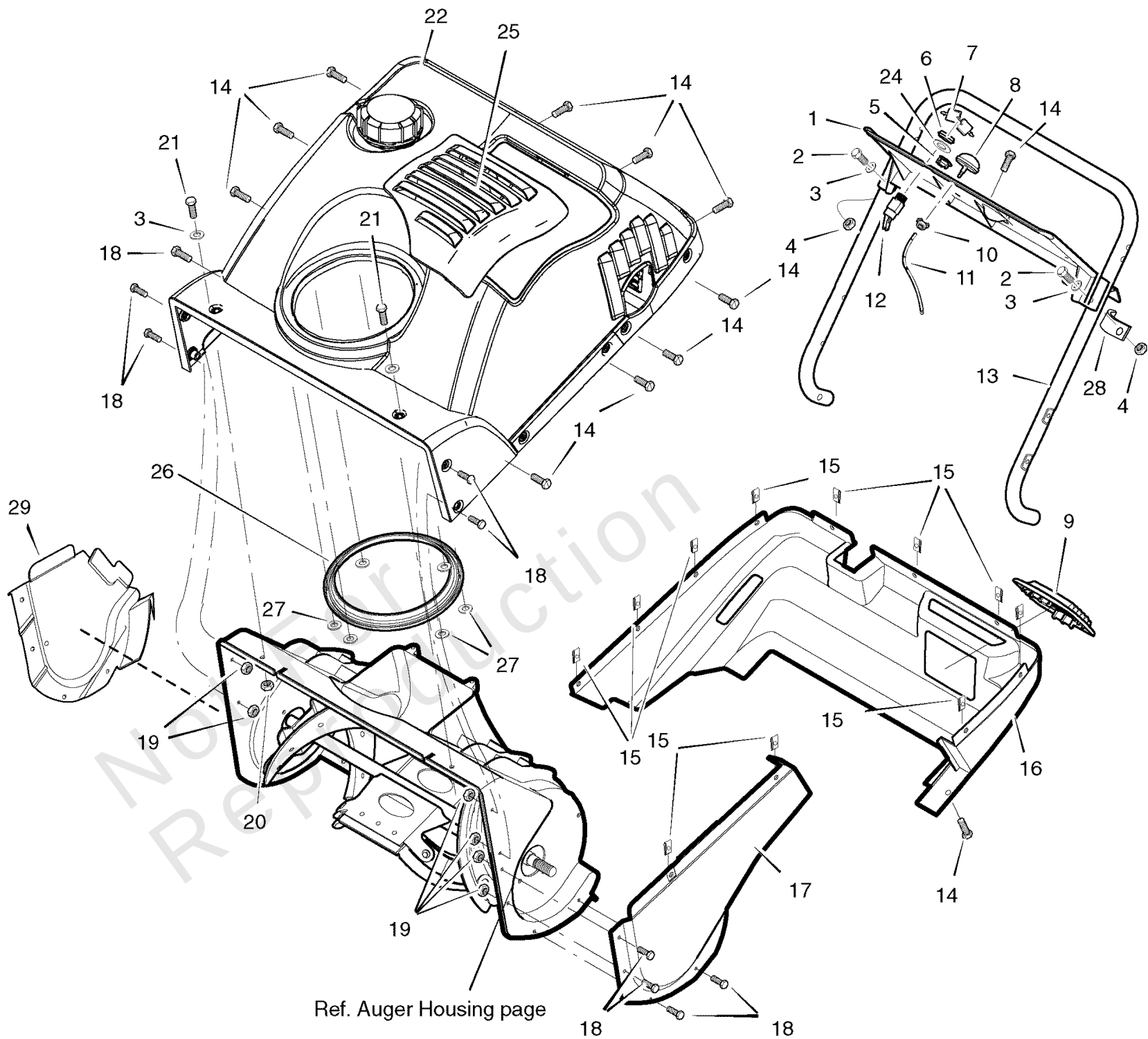
Auger And Housing

REF NO	PART NO	QTY	DESCRIPTION
1	710263MA		Screw, 1/4-20 x 1.00
2	73826MA		Nut, Hex 1/4-20
3	302628MA		SCREW, 1/4-20X .75 HH
4	71067MA		Washer, Flat
5	1740348MA		Housing Assembly, Auger
6	579052MA		SCREW.25-20X0.62 HHC
7	1501981MA		Auger Assembly, 22"
8	580251MA		Retainer, Bearing
9	43846MA		Bearing
10	578101MA		Sleeve, Spacer
11	334287MA		Plate, Bearing Retainer
12	333446MA		Pulley, Auger Drive V6
13	577023MA		BRNG, FLNG
14	1687312SM		Kit, Auger Flighting Replacement

Body Covering

Note: Unless noted otherwise, use the standard torque specifications

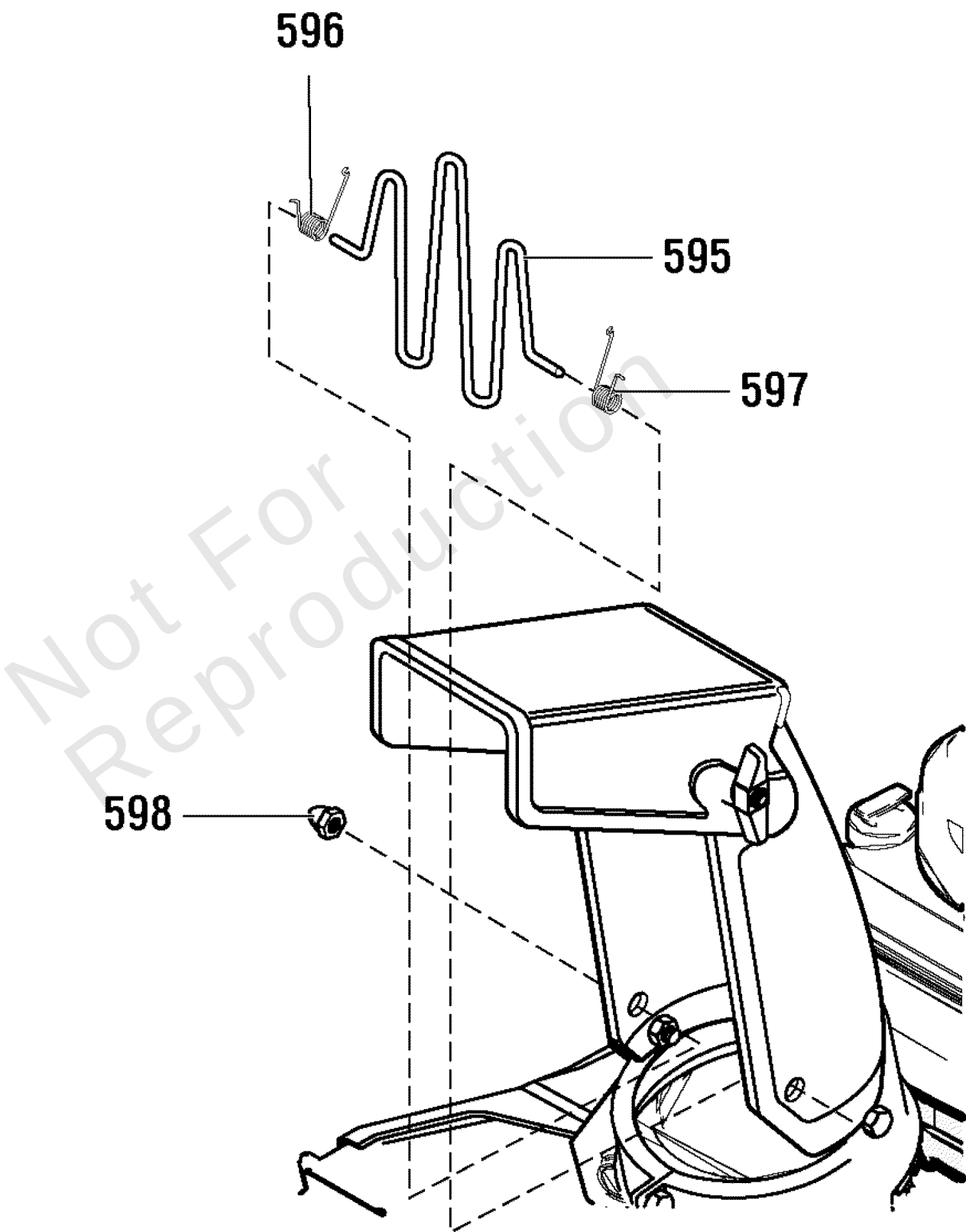
Mfg. No: 6220530x110N



Body Covering

REF NO	PART NO	QTY	DESCRIPTION
1	1740006MA		PANEL, Control
2	313674MA		SCREW, 1/4 - 20 x 1-1/4
3	71067MA		WASHER
4	73826MA		NUT, 1/4 - 20
5	1501874MA		BUSHING, Chute Crank
6	300193MA		NUT, 5/8 - 32
7	691959		SET, Key
8	394281S		PRIMER-CARBURETOR
9	1501878MA		PANEL, Access
10	271172MA		NUT, 1/4-20 REGHEXKEP
11	335507MA		HOSE, Primer, 9.5"
12	56992MA		SWITCH, Ignition
13	1501860E701MA		HANDLE, Lower
14	313685MA		SCREW, 1/4-14X .75 SL
15	578109MA		NUT, 1/4 - 10
16	1740004MA		COVER, Bottom - Black
17	1740005MA		COVER, Belt - Black
18	1740051MA		SCREW, 10 - 24 x 1/2
19	1740052MA		NUT, Hex Center Lock, 10 - 24
20	1740056MA		LOCKNUT, Hex 1/4 - 20
21	1740425MA		SCREW, 1/4 - 20 x 5/8
22	1741271MA		COVER, Top Assembly - Red
24	313683MA		WASHER
25	1741273MA		COVER, Oil Access - Red
26	1740020MA		Gasket, Chute Ring
27	028X85MA		NUT, Push Pal
28	583435MA		CLIP,CABLE.38 C951PC
29	1740071SM		COVER, RH Auger Housing - Black

Chute Guard



Chute Guard

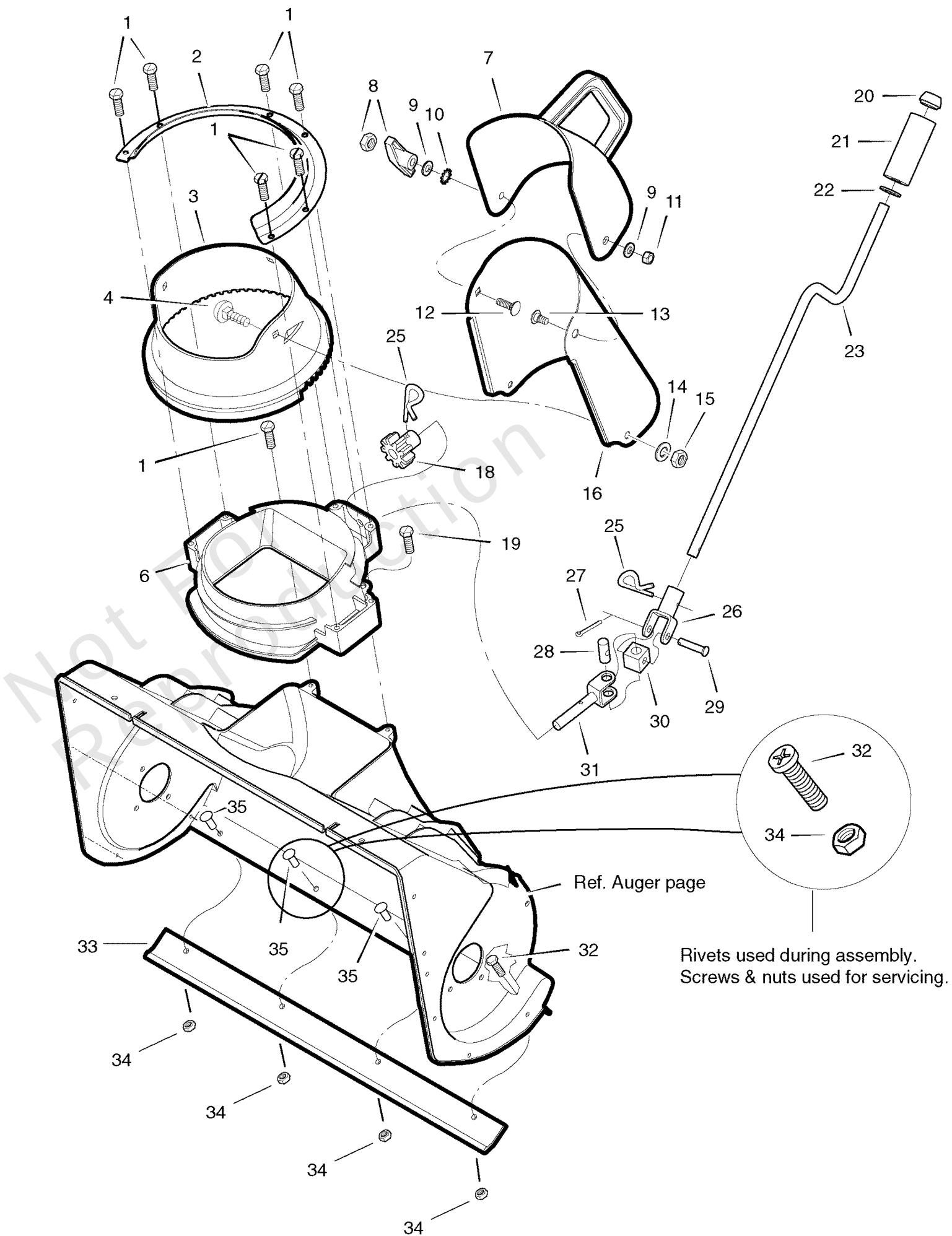
REF NO	PART NO	QTY	DESCRIPTION
595	311206MA		GUARD, WIRE CHUTE
596	51776MA		SPRING, TORSION
597	51777MA		SPRING, TORSION
598	49106MA		NUT, ACORN

Not For Reproduction

Chute System

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 6220530x110N



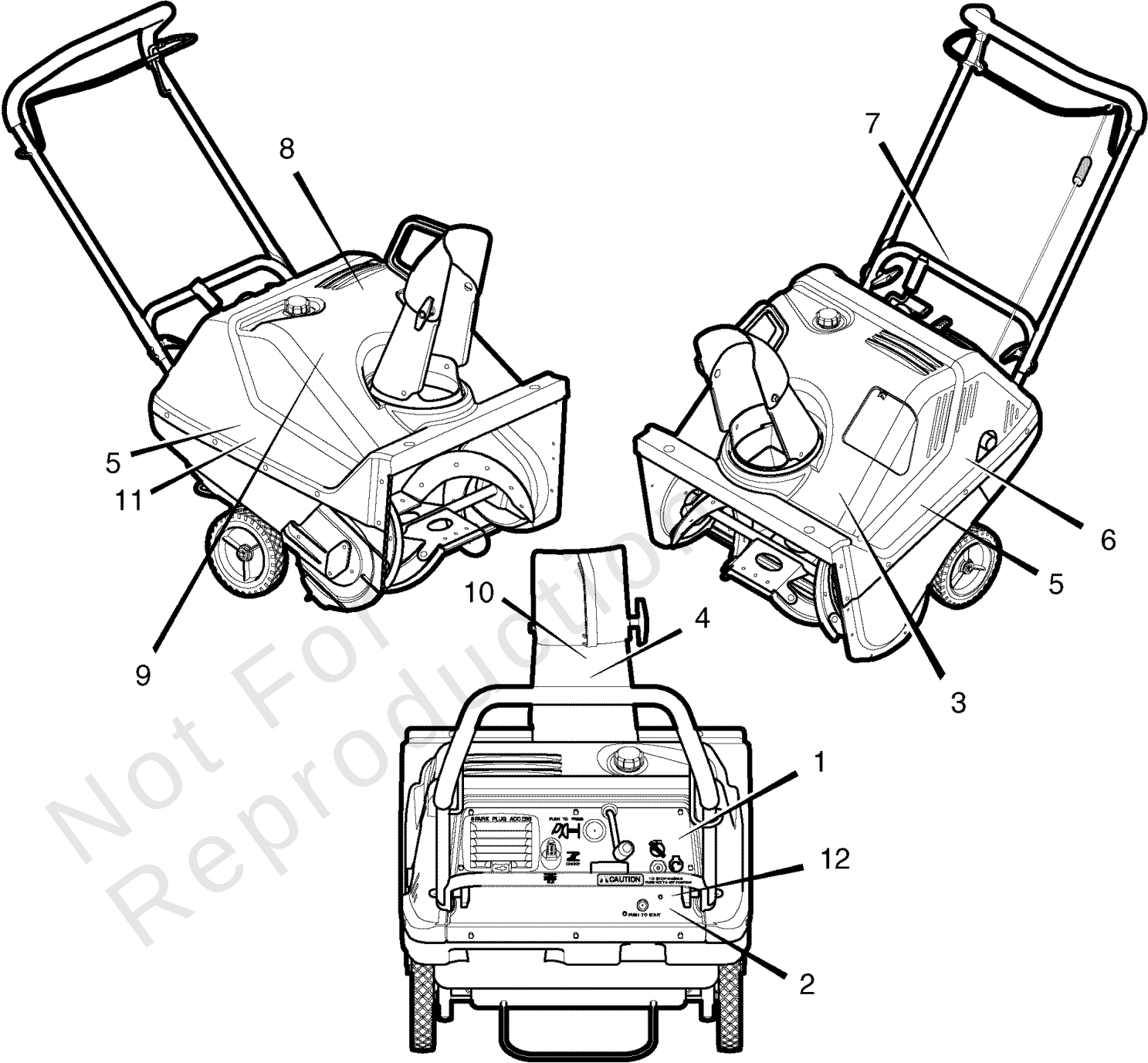
Chute System

REF NO	PART NO	QTY	DESCRIPTION
1	313685MA		SCREW, 1/4-14X .75 SL
2	1502131MA		Retainer, Chute Ring
3	1502132MA		Ring, Chute
4	340720MA		Bolt, Carriage 5/16-18 x .75
6	1501848MA		Neck, Chute
7	1501918MA		Chute, 22" Upper
8	57171MA		T-Knob
9	71071MA		Washer
10	019X35MA		Lockwasher, Shakeproof
11	71391MA		NUT.31-18 HEX CTRLK
12	002X97MA		Bolt, Carriage 5/16-18
13	1501910MA		Bolt, Upper Chute
14	71072MA		WASHER, FLAT .406X.81
15	71038MA		Nut
16	1502012MA		Chute, Lower
18	1501067MA		GEAR,9 TOOTH 8DP
19	313685MA		SCREW, 1/4-14X .75 SL
20	331532MA		NUT, PUSH, FITS 3/8 D
21	57082MA		Knob, Sleeve
22	71072MA		WASHER, FLAT .406X.81
23	1501870MA		Crank, Chute Rotation
25	1501293MA		PIN-HAIR, CHUTE GEAR
26	1501075YZMA		YOKE ADAPTER ASY
27	579493MA		PIN, COTTER .06X .50
28	578060MA		PIN,UNIV JOINT 3/8X1.
29	578309MA		LF PIN, CLEVIS .25DX
30	578063MA		BLOCK,UNIVERSAL PIVOT
31	1501873MA		Rod, Lower Crank
32	302628MA		SCREW, 1/4-20X .75 HH
33	1501863MA		Blade, Scraper
34	15X143MA		NUT,25-20 HEX FLG CTR
36	577707MA		Rivet, Overset

Decals

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 6220530x110N



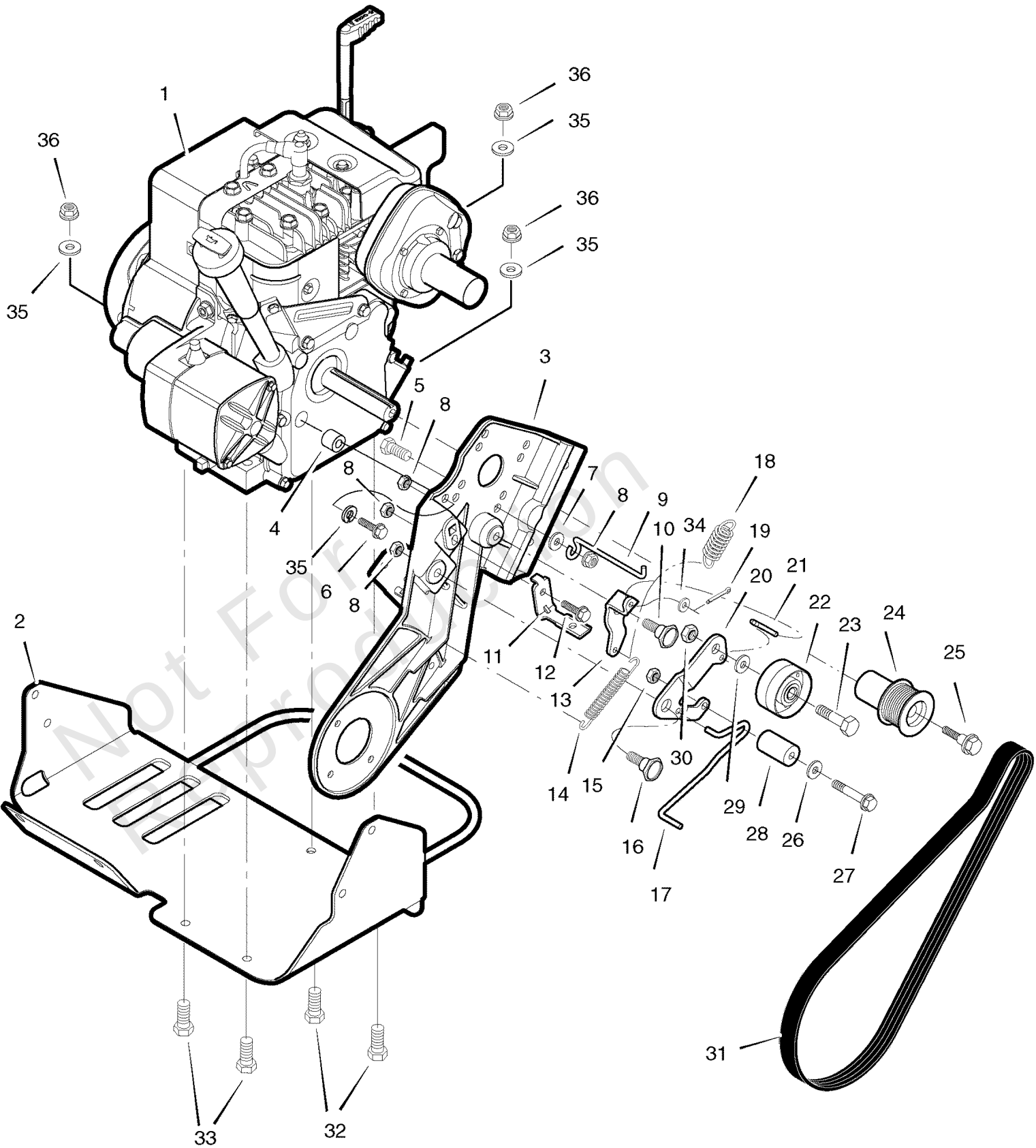
Decals

REF NO	PART NO	QTY	DESCRIPTION
1	1740400MA		Decal, Control Panel
2	48X5692MA		Decal, Electric Start Cover
3	48X5995MA		Decal, Danger Auger
4	48X5994MA		Decal, Danger Chute
5	48X5984MA		Decal, Castlegarden
6	48X5999MA		Decal, Hot Muffler
7	48X5998MA		Decal, Auger Control
8	1741258MA		Decal, Castlegarden SN 522RS
9	48X5702MA		Decal, Briggs & Stratton
10	48X5578MA		DEC-THROWN OBJECTS E
11	48X5305MA		Decal, Compact Line
12	1740422MA		Decal, Choke

Engine Drive System

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 6220530x110N



Engine Drive System

REF NO	PART NO	QTY	DESCRIPTION
1	09A4130267E1		Engine, 5HP 4CY B&S *
2	1501849E701MA		Cradle Assembly, Engine
3	1501872E701MA		Frame, LH
4	1502027MA		Antivibration Mount, Engine
5	1X216MA		Bolt, Hex 5/16-18 x 0865
6	6X118MA		Bolt, Hex 5/16-24X1.125
7	71071MA		Washer, Flat
8	71391MA		NUT.31-18 HEX CTRLK
9	334079MA		Guide, Belt
10	333594MA		BOLT-SHD.500X.177 .31
11	333970MA		Pad, Brake
12	579052MA		SCREW.25-20X0.62 HHC
13	313444MA		Idler, Arm Pivot
14	313473MA		Spring
15	73826MA		Nut Hex 1/4-20
16	333594MA		BOLT-SHD.500X.177 .31
17	1501009MA		Wire, Brake
18	313471MA		SPRING,EXT.75 OD X.06
19	121223MA		Pin, Cotter
20	320077MA		Arm, Idler
21	313436MA		Rod, Clutch Linkage
22	48924MA		Pulley, Idler
23	302637MA		Screw, 3/8-16 x 1.50
24	1501908MA		Pulley, Model 9 Engine
25	1501907MA		Bolt, Engine Pulley
26	71067MA		Washer, Flat
27	180044MA		Screw, 1/4-20 x 2.00
28	1501010MA		Pinch Roller
29	301188MA		Washer, Flat
30	590MA		Nut, Hex
31	333721MA		Belt, Drive
32	001X81MA		Bolt, Hex 5/16-18
33	47792MA		Screw 3/8-16X1.00
34	414106MA		Washer, Flat
35	71060MA		Lockwasher, Split
36	71037MA		Nut, 5/16-18

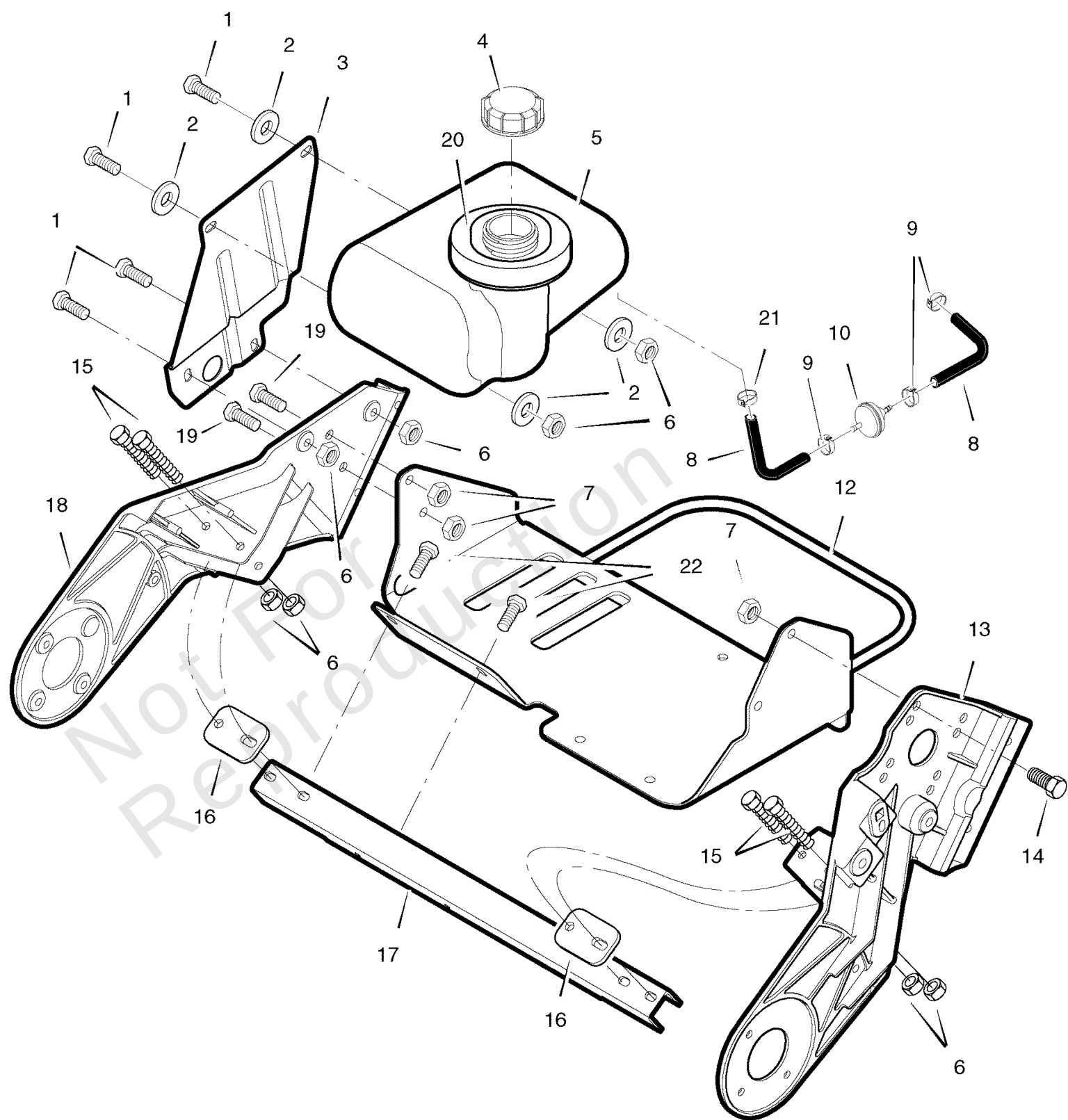
Footnotes:

Note* For information on Replacement Parts contact the engine manufacturer.

Frame And Fuel Tank

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 6220530x110N



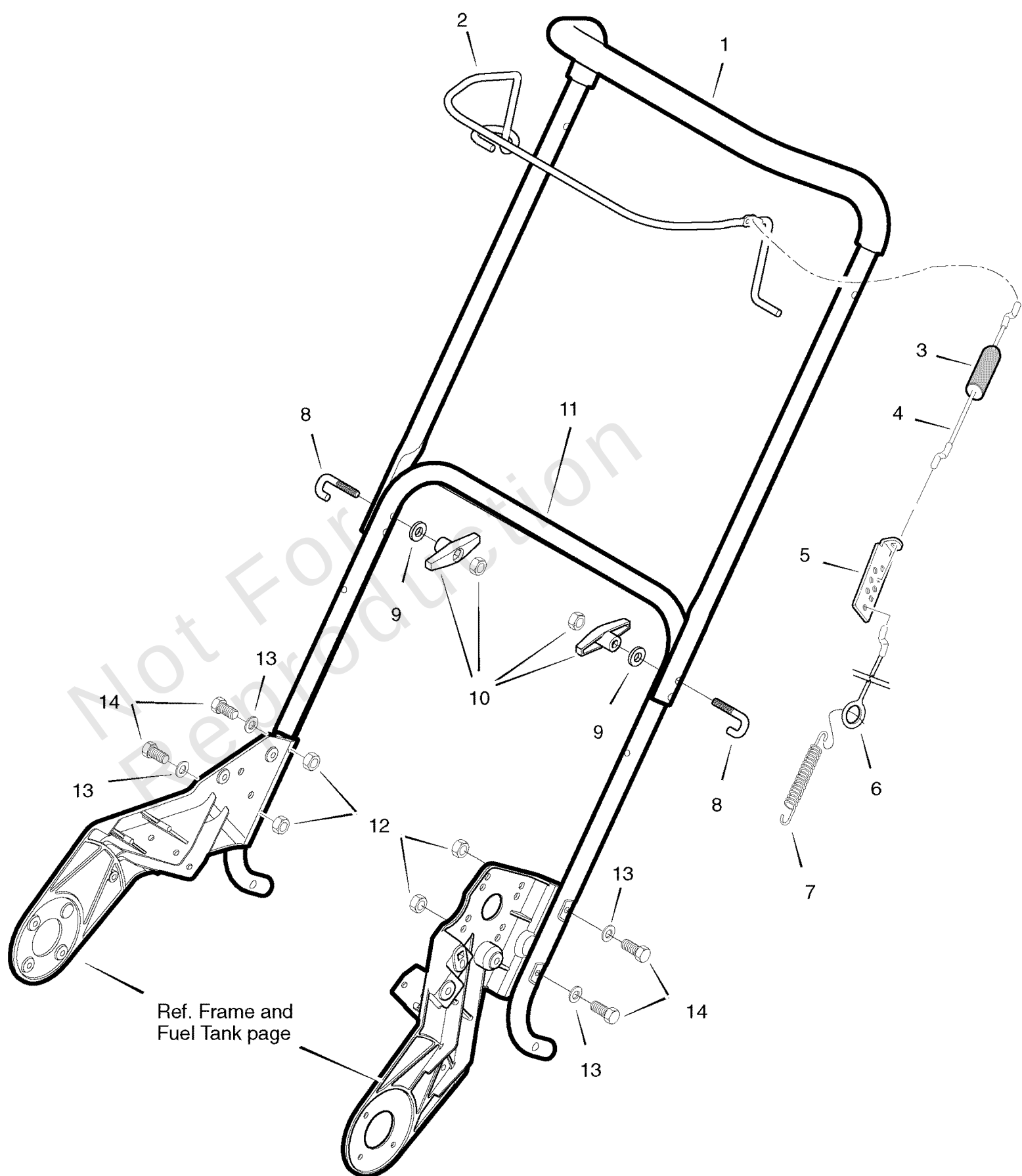
Frame And Fuel Tank

REF NO	PART NO	QTY	DESCRIPTION
1	302628MA		SCREW, 1/4-20X .75 HH
2	71067MA		Washer
3	1740031E701MA		Bracket, Fuel Tank
4	1715917SM		Cap, Fuel Tank
5	1716634SM		Tank, Fuel
6	73826MA		Nut, Hex 1/4-20
7	71391MA		NUT.31-18 HEX CTRLK
8	1502028MA		HOSE, FUEL 12 INCHES -(Cut to length)
9	323387MA		Clamp, Fuel Line
10	298090S		Filter, Fuel Line
12	1501849E701MA		Cradle Assembly, Engine
13	1501872E701MA		Frame, LH
14	48901MA		Screw, 5/16-18 x 0.63
15	180044MA		Screw, 1/4-20 x 2.00
16	335351MA		Plate, Mounting Support
17	1501851MA		Support, Frame
18	1501871E701MA		Frame, RH
19	180077MA		Screw, 5/16-18 x 0.75
20	1740032MA		Ring, Foam
21	47345MA		CLAMP, SCREW TYPE
22	310169MA		SCREW, 1/4-20X .63 WA

Handle Assembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 6220530x110N



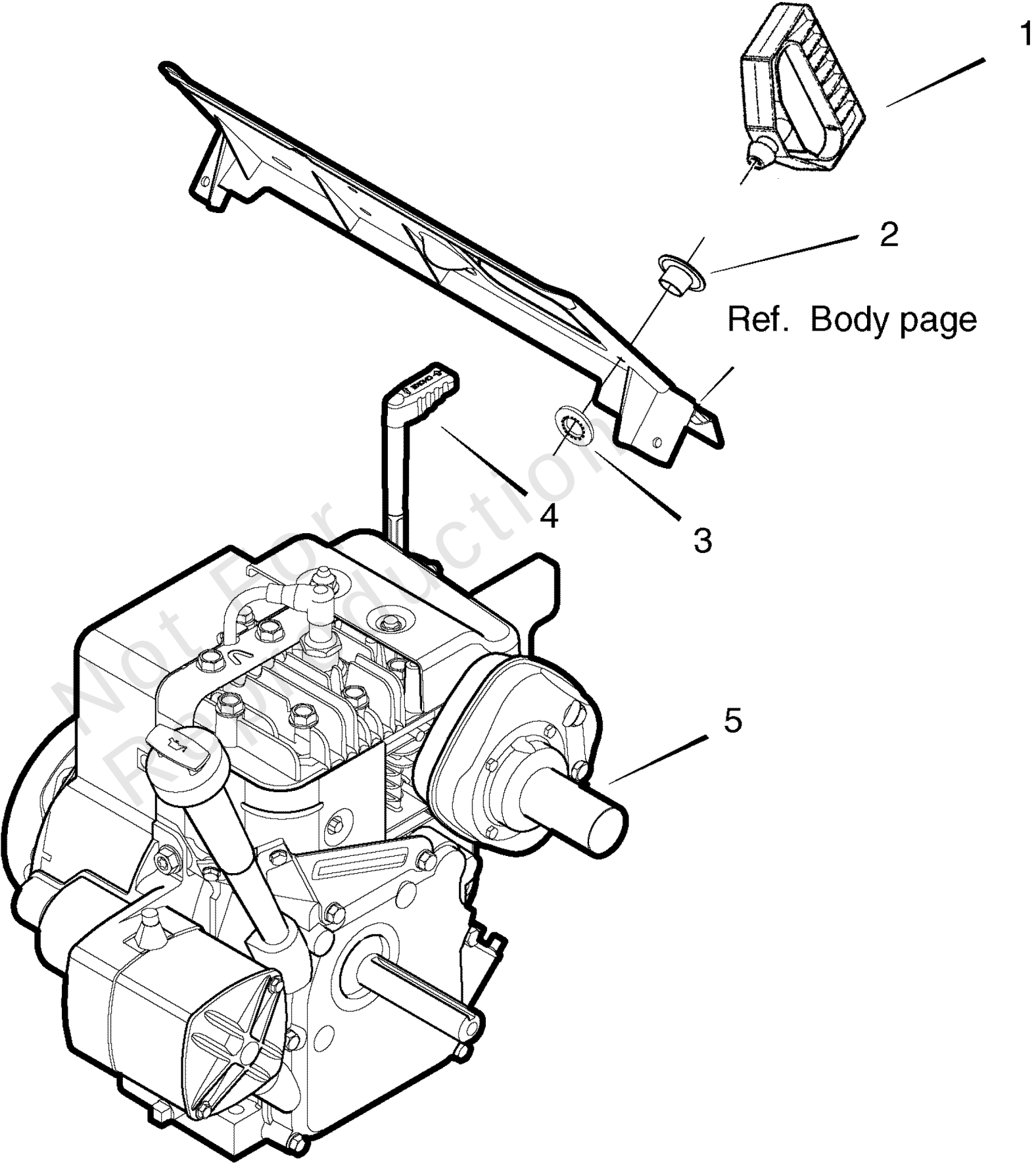
Handle Assembly

REF NO	PART NO	QTY	DESCRIPTION
1	1502001MA		Handle & Grip Assembly
2	1501861E701MA		Control, Bail
3	308146MA		Boot, Clutch Spring
4	1502042MA		Cable, Upper Control
5	313441MA		BRACKET, CABLE ADJ BL
6	313448MA		Cable, Lower Control
7	313471MA		SPRING,EXT.75 OD X.06
8	1501877MA		U-Bolt
9	311936MA		WASHER, FORM .344 ID
10	1740436MA		Knob, Wing
11	1501860E701MA		Handle, Lower
12	73826MA		Nut
13	71067MA		Washer
14	313674MA		Screw, 1/4-20 x1.25

Rewind Starter

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 6220530x110N



Rewind Starter

REF NO	PART NO	QTY	DESCRIPTION
1	699334		GRIP, Starter Rope
2	1502074MA		Grommet, Rope *
3	1502075MA		Washer, Grommet Rope
4	791534		Lever, Choke *
5	699565		Kit, Muffler Assembly
5-1	699565		Muffler -(Not Illustrated)
5-2	691880		GASKET-EXHAUST -(Not Illustrated)
5-3	1502004MA		Bolt, Muffler * -(Not Illustrated)
5-4	71060MA		Washer, Split Lock * -(Not Illustrated)
5-5	71037MA		Nut, Hex 5/16-18 -(Not Illustrated)
5-6	001X81MA		Bolt, Hex 5/16-18 -(Not Illustrated)

Footnotes:

Note* For information on Replacement Parts contact the Engine manufacturer.

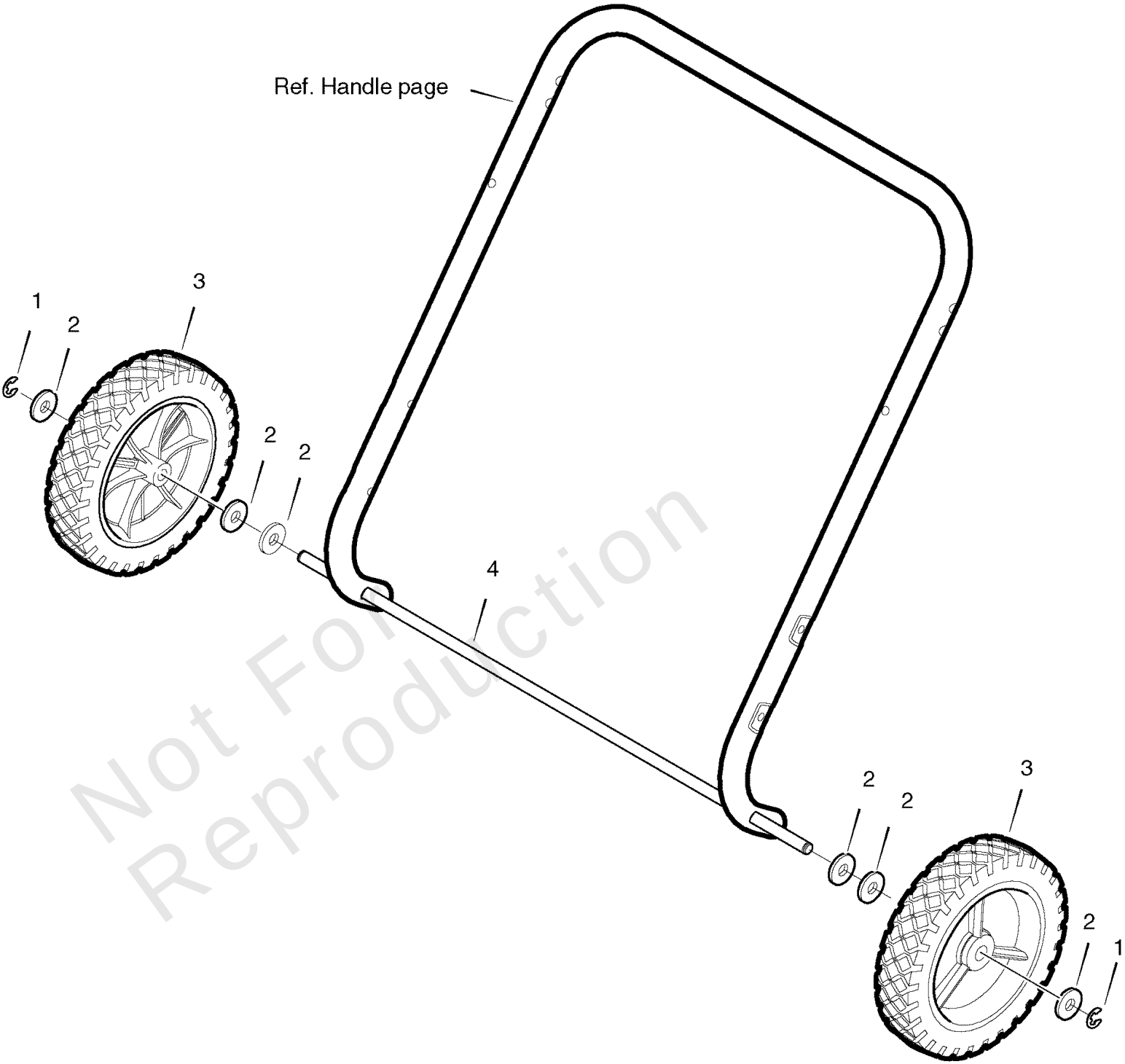
Note* For information on Replacement Parts contact the engine manufacturer.

Note* For information on Replacement Parts contact the engine manufacturer.

Wheel Assembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 6220530x110N



Wheel Assembly

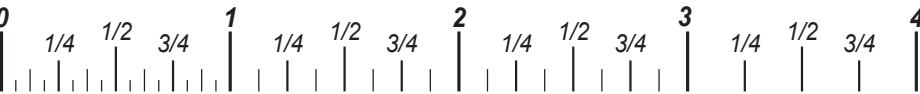
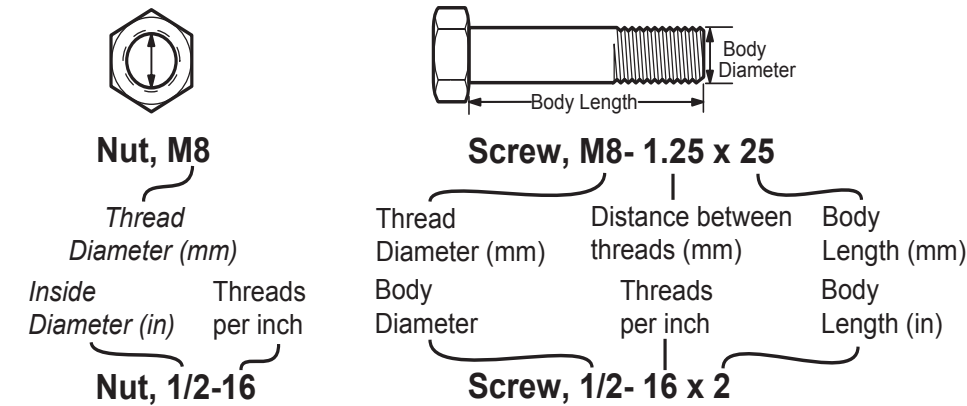
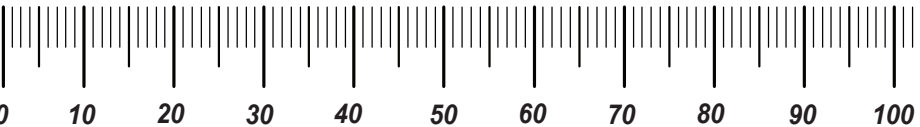
REF NO	PART NO	QTY	DESCRIPTION
1	577598MA		RING, RET E .30X.04TR
2	583409MA		Washer
3	760713MA		Wheel and Tire 7" x 1.50"
4	1501879MA		Rod, Axle

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).

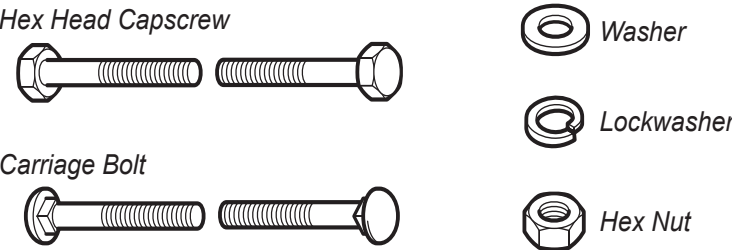
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

STIGA