



Parts Manual

Mfg. No: 1692979
20" Chicago Bears Snowthrower

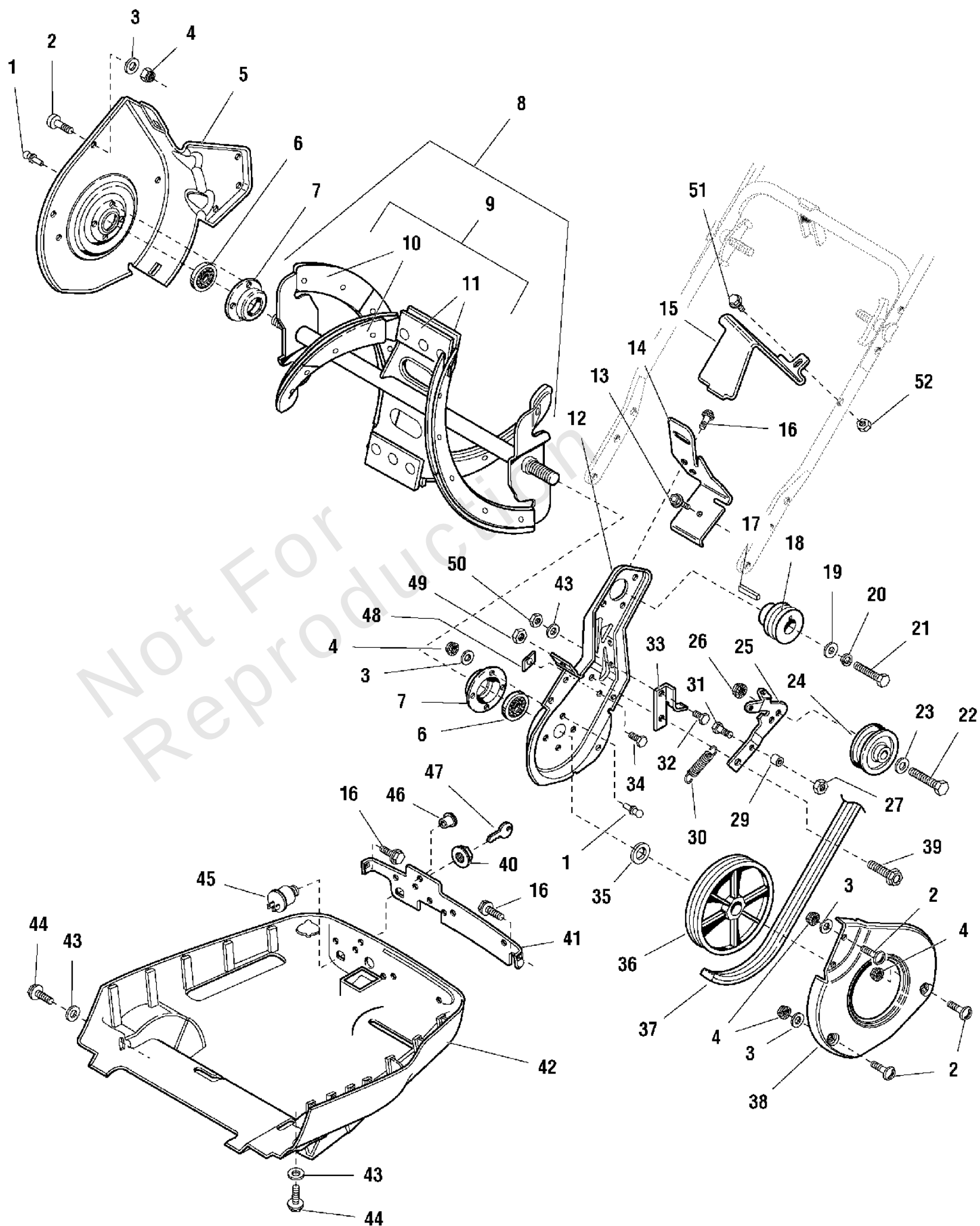
Model Components	Page
Auger & Drive Group.....	4
Auger Housing & Chute Group - Early Models.....	8
Auger Housing & Chute Group - Later Models.....	10
Decals - Safety & Common.....	12
Decals - Snow Tackler Team.....	14
Frame, Handles & Engine Group - Early Models.....	18
Frame, Handles & Engine Group - Later Models.....	20
Torque Specification Chart.....	22

Not For
Reproduction

Auger & Drive Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1692979



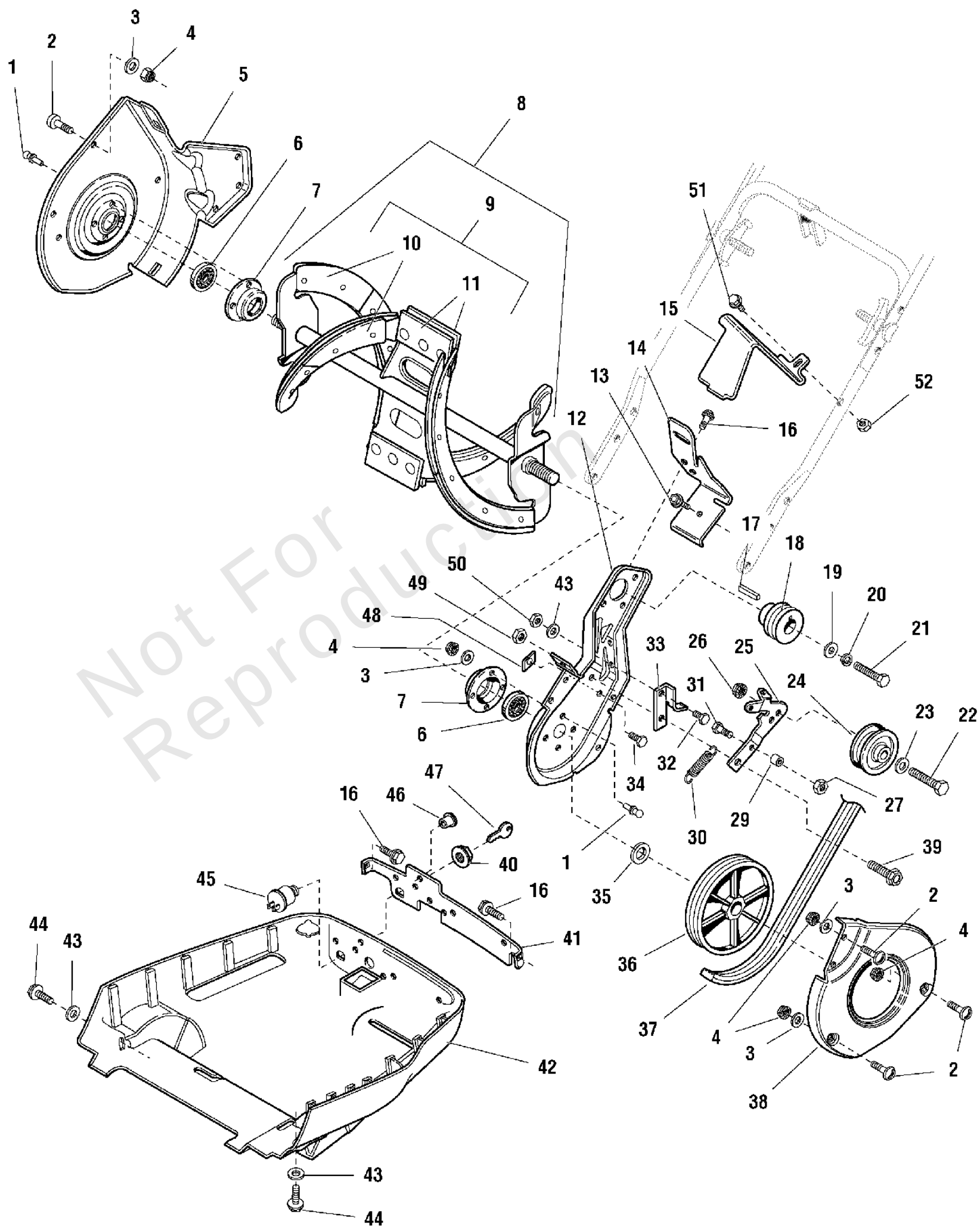
Auger & Drive Group

REF NO	PART NO	QTY	DESCRIPTION
1	1960241SM	8	RIVET, Pop, 1/4 x 1/2
2	1960570SM	8	SCREW, Truss Head, Torx, #10-24
3	1910531SM	8	WASHER, Rivet
4	1933896SM	8	NUT, Hex Lock. ESNA, #10-24
5	1716595SM	1	FRAME, Right Side
6	1665521SM	2	BEARING, Auger
7	1716649SM	2	RETAINER, Bearing
8	1719612SM	1	AUGER ASSEMBLY, Complete (Includes Ref. Nos. 9-11)
9	1686705SM	1	KIT, Flighting Replacement (Includes Ref. Nos. 10 & 11, plus mounting hardware)
10	1718207SM	8	FLIGHT, Rubber
11	1716661SM	4	CENTER FLIGHT, Rubber
12	1716590SM	1	FRAME, Left Side
13	1960001SM	1	SCREW, Plastite, #10-14 x 5/8
14	1716619SM	1	SHIELD, Belt
15	1716663SM	1	AIR DEFLECTOR
16	1929477SM	1	SCREW, Hex Head, #10-24 x 1-1/4
17	2805850SM	1	KEY, Parallel
18	1716616SM	1	PULLEY, Drive
19	1960141SM	1	WASHER, 5/16
20	1917356SM	1	LOCKWASHER, 5/16
21	1921982SM	1	CAPSCREW, Hex Head, 5/16-24 x 1-1/4
22	1921969SM	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
23	1924940SM	1	WASHER
24	1716615SM	1	PULLEY, Idler
25	1716618SM	1	IDLER ARM
26	1931211SM	1	NUT, Flange Whiz Lock, 3/8-16
27	1923358SM	1	NUT, Hex Centerlock, 1/4-20
29	1716656SM	1	ROLLER, Belt Stop
30	1716653SM	1	SPRING, Idler Return
31	1921960SM	1	CAPSCREW, Hex Head, 1/4-20 x 1
32	1924009SM	1	CAPSCREW, Hex Head, 1/4-20 x 7/8
33	1716617SM	1	BRACKET, Belt
34	1927429SM	1	CAPSCREW, Hex Washer Head Taptite, 1/4-20 x 5/8
35	1716655SM	1	SPACER, Pulley
36	1716614SM	1	PULLEY, Driven
37	1716645SM	1	BELT, Drive
38	1716589SM	1	GUARD, Belt
39	1716654SM	1	IDLER PIVOT BOLT
40	1714055SM	1	FLANGE NUT, Ignition Switch, 5/8-32
41	1716637SM	1	CONTROL PANEL
42	1716627SM	1	LOWER HOUSING
43	1921319SM	3	WASHER
44	1960568SM	2	SCREW, Hex Head, Taptite, 1/4-20 x 7/8
45	1718337SM	1	SWITCH, Ignition
46	1716676SM	1	SNAP BUSHING, 1/4
47	1714054SM	2	KEY-IGNITIOM W/PLASTI
48	1960595SM	1	SPEED NUT, 1/4-20
49	1919438SM	1	NUT, Hex Lock, ESNA, 5/16-18
50	1920397SM	1	NUT, Hex Lock, ESNA, 1/4-20
51	2860604SM	4	SCREW, Hex Head, Taptite, #10-24 x 1/2

Auger & Drive Group

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Mfg. No: 1692979



Auger & Drive Group

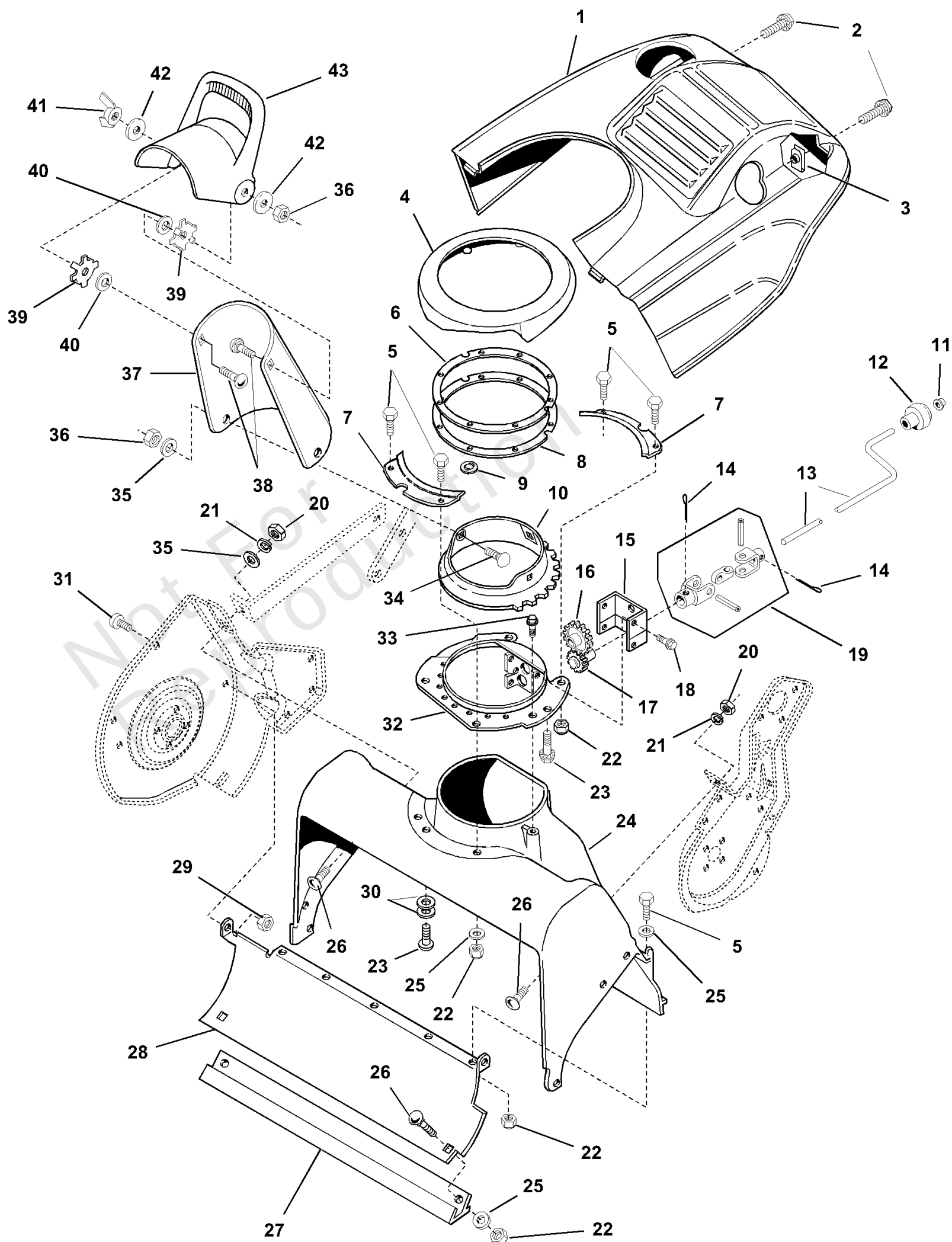
REF NO	PART NO	QTY	DESCRIPTION
52	1933896SM	1	NUT, Hex Lock, #10-24

Not For Reproduction

Auger Housing & Chute Group - Early Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1692979



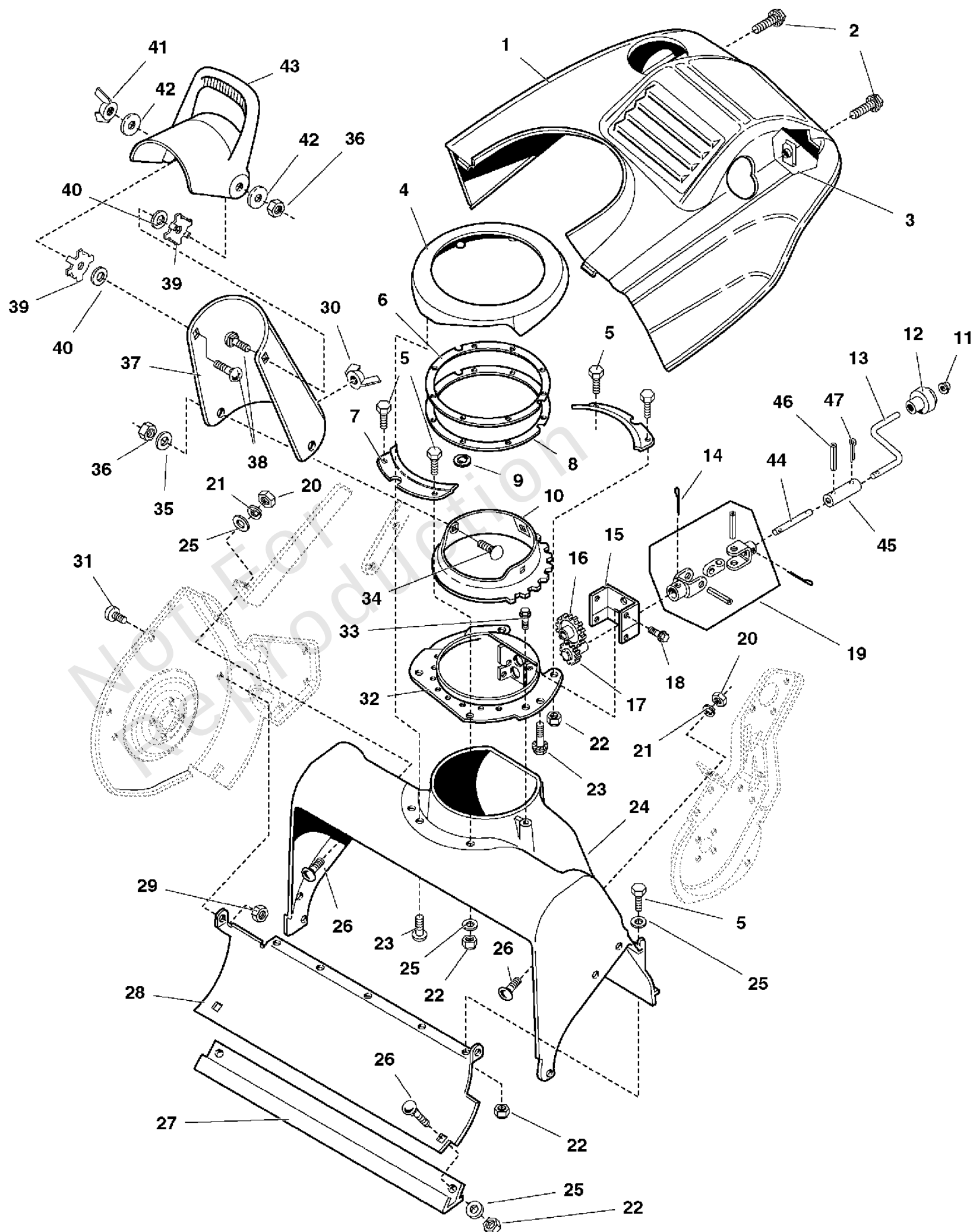
Auger Housing & Chute Group - Early Models

REF NO	PART NO	QTY	DESCRIPTION
1	1720575	1	UPPER HOUSING
2	1928732SM	2	SCREW, Hex Hd., Taptite, #10-24 x 1
3	1960593SM	2	NUT, Retainer, Speed, #10-24 w/extrusion
4	1716628SM	1	COLLAR
5	1923341SM	9	CAPSCREW, Hex Hd., 1/4-20 x 3/4
6	1716640SM	1	GASKET
7	1716625SM	2	RETAINER
8	1716641SM	1	RETAINER, Gasket
9	1960521SM	8	NUT, Push
10	1716611SM	1	BASE, Chute
11	1960093SM	1	NUT, Push, Pal, 3/8
12	1714084SM	1	KNOB, Chute, Rotate
13	1716644SM	1	HANDLE, Chute, Rotate
14	1923500SM	2	PIN, Cotter, 1/8 x 1-1/2
15	1716630SM	1	BRACKET, Gear
16	1716636SM	1	GEAR, Idler
17	1716635SM	1	DRIVE GEAR
18	1927429SM	4	SCREW, Hex Hd. Taptite, 1/4-20 x 5/8
19	1716658SM	1	UNIVERSAL JOINT ASSY.
20	1916622SM	2	NUT, Hex 1/4-20
21	1916964SM	2	LOCKWASHER, Spring, 1/4
22	1920397SM	11	NUT, Hex Lk. Esna, 1/4-20
23	1960001SM	3	SCREW, Plastite #10-14 x 5/8
24	1716609SM	1	HOUSING, Auger
25	1921319SM	9	WASHER
26	1931318SM	4	CARRIAGE BOLT, 1/4-20 x 7/8
27	1716606SM	1	SCRAPERBAR
28	1716596SM	1	SCOOP
29	1933896SM	1	NUT, Hex Lk., #10-24
30	1916955SM	2	WASHER
31	1960569SM	1	SCREW, Truss Hd. Torx, #10
32	1716610SM	1	PLATE, Chute Base
33	1960001SM	2	SCREW, Plastite, #12-14 x 1.0
34	1960282SM	3	CARRIAGE BOLT, 5/16-18 x 3/4
35	1919326SM	3	WASHER, 5/16
36	1919438SM	4	NUT, Hex Lk., Esna 5/16-18
37	1716612SM	1	CHUTE
38	1931335SM	2	BOLT, Carriage, Short Neck, 5/16-18 x 1
39	1716642SM	2	WASHER, Octagon
40	1716624SM	2	WASHER, Rubber
41	1716632SM	1	KNOB, Wing
42	1920283SM	2	WASHER, 1-1/2 OD
43	1716631SM	1	DEFLECTOR, Chute

Auger Housing & Chute Group - Later Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1692979



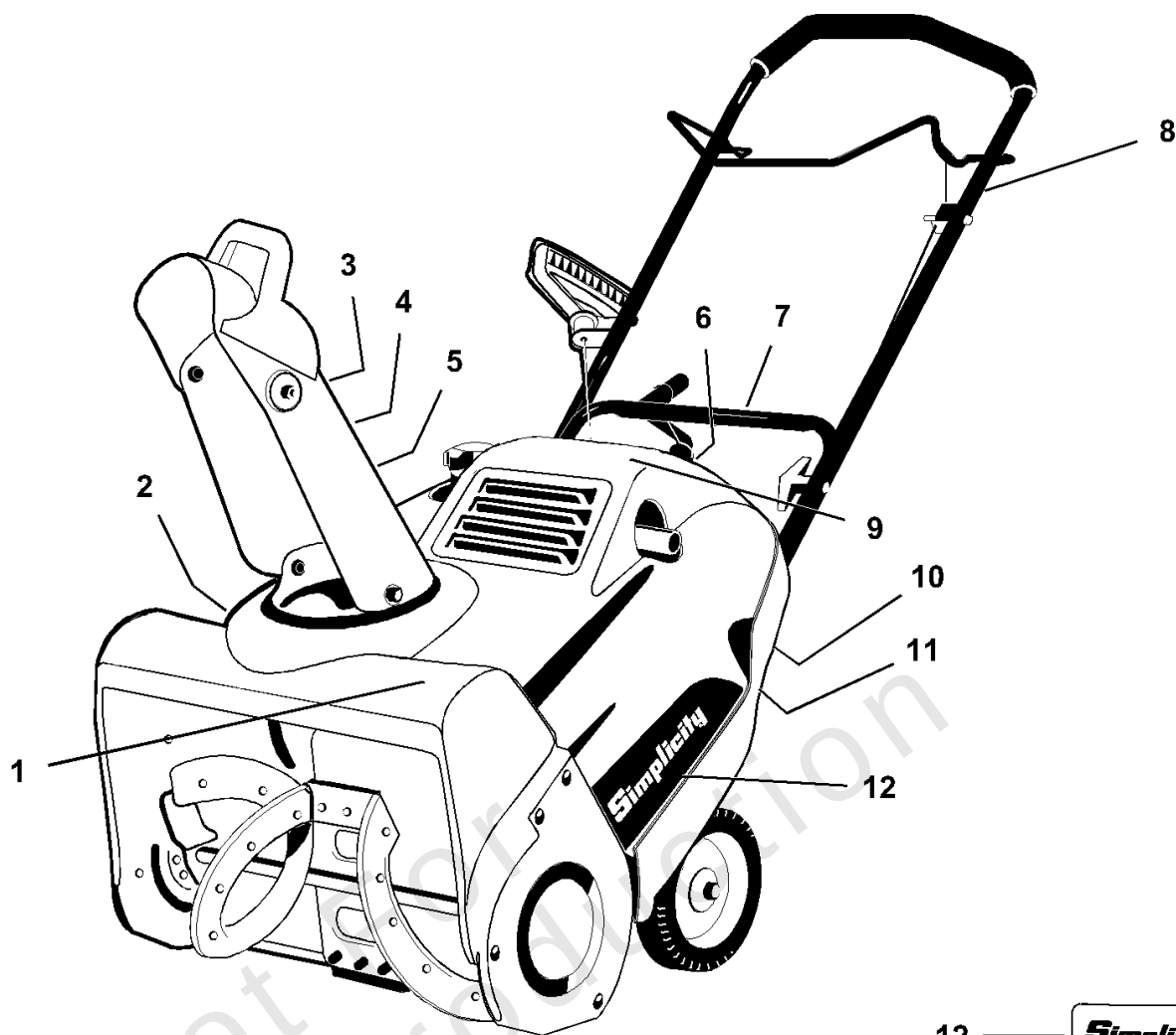
Auger Housing & Chute Group - Later Models

REF NO	PART NO	QTY	DESCRIPTION
1	7058501SM	1	HOUSING, Upper Plastic w/Louvers 520 Snow
2	1928732SM	2	SCREW, Hex Head, Taptite, #10-24 x 1
3	1960593SM	2	NUT, Retainer, Speed, #10-24 w/Extrusion
4	1716628SM	1	COLLAR
5	1923341SM	9	CAPSCREW, Hex Head, 1/4-20 x 3/4
6	1716640SM	1	GASKET
7	1716625SM	2	RETAINER
8	1716641SM	1	RETAINER, Gasket
9	1960521SM	8	NUT, Push
10	1716611SM	1	BASE, Chute
11	1960093SM	1	NUT, Push, Pal, 3/8
12	1714084SM	1	KNOB, Chute, Rotate
13	1720578SM	1	HANDLE, Chute Rotator Upper
14	1923500SM	2	PIN, Cotter, 1/8 x 1-1/2
15	1716630SM	1	BRACKET, Gear
16	1716636SM	1	GEAR, Idler
17	1716635SM	1	DRIVE GEAR
18	1927429SM	4	SCREW, Hex Head Taptite, 1/4-20 x 5/8
19	1716658SM	1	UNIVERSAL JOINT ASSEMBLY
20	1916622SM	2	NUT, Hex 1/4-20
21	1916964SM	2	LOCKWASHER, Spring, 1/4
22	1920397SM	11	NUT, Hex Lock, ESNA, 1/4-20
23	1960001SM	3	SCREW, Plastite #10-14 x 5/8
24	1716609SM	1	HOUSING, Auger
25	1921319SM	9	WASHER
26	1931318SM	4	CARRIAGE BOLT, 1/4-20 x 7/8
27	1716606SM	1	SCRAPERBAR
28	1716596SM	1	SCOOP
29	1933896SM	1	NUT, Hex Lock, #10-24
30	1933126SM	2	NUT, Wing 5/16-18 Lock
31	1960570SM	1	SCREW, Truss Head Torx, #10-24 x 5/8
32	1716610SM	1	PLATE, Chute Base
33	1960001SM	2	SCREW, Plastite, #12-14 x 1.0
34	1960282SM	3	CARRIAGE BOLT, 5/16-18 x 3/4
35	1919326SM	3	WASHER, 5/16
36	1919438SM	4	NUT, Hex Lock, ESNA 5/16-18
37	1716612SM	1	CHUTE
38	1931335SM	2	BOLT, Carriage, Short Neck, 5/16-18 x 1
39	1716642SM	2	WASHER, Octagon
40	1716624SM	2	WASHER, Rubber
41	1716632SM	1	KNOB, Wing
42	1920283SM	2	WASHER, 1-1/2 OD
43	1716631SM	1	DEFLECTOR, Chute
44	1720576SM	1	HANDLE, Chute Rotator Lower, E-Coat
45	1720577SM	1	TUBE, Chute Handles 1/2 OD 7.00 Long E-Coat
46	1926228SM	1	PIN, Spring 5/32 X 1 SAE 1095
47	1960074SM	1	CLIP, HAIR PIN .093DI

Decals - Safety & Common

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1692979



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Decals - Safety & Common

REF NO	PART NO	QTY	DESCRIPTION
1	1716532SM	1	DECAL, Danger, Auger
2	1716665SM	1	DECAL, Logo, R.H.
3	1717960	1	DECAL, Power-Mass (Export Models Only)
4	1722674SM	1	DECAL, Danger, Discharge Chute
5	1709933SM	1	DECAL, C.E. (Export Models Only)
6	1716669SM	1	DECAL, Console (Electric Start Models)
6	1716670SM	1	DECAL, Console (Manual Start Models)
7	-----	1	DECAL, OPEI
8	1716672SM	1	DECAL, Auger Control
9	1716671SM	1	DECAL, Warning
10	-----	1	DECAL, Compliance
11	-----	1	SERIAL No.
12	1716666SM	1	DECAL, Logo, L.H.

Footnotes:

Note:* Not a Service Part.



Decals - Snow Tackler Team

REF NO	PART NO	QTY	DESCRIPTION
1	1717852	1	SNOW TACKLER Decal (All Units)
2	1717853	1	BEARS Decal Set -(Includes 1717814-RH Bears Logo; 1717815-Bear; 1717816-Simplicity Logo; 1717817-Bears; and 1717818-LH Bears Logo)
2	1717952		RH Bills Logo
2	1717953		LH Bills Logo
2	1717954		Bills
2	1717955		Simplicity Logo
3	1717951	1	BILLS Decal Set -(Includes 1717952-RH Bills Logo; 1717953-LH Bills Logo; 1717954-Bills; 1717955-Simplicity Logo)
3	1717952		RH Bills Logo
3	1717953		LH Bills Logo
3	1717954		Bills
3	1717955		Simplicity Logo
4	1717854	1	BROWNS Decal Set -(Includes 1717819-RH Browns Logo; 1717820-Simplicity Logo; 1717821-LH Browns Logo; 1717822-Browns Helmet)
4	1717819		RH Browns Logo
4	1717820		Simplicity Logo
4	1717821		LH Browns Logo
4	1717822		Browns Helmet
5	1717950	1	EAGLES Decal Set -(Includes 1717956-RH Eagles Logo; 1717957-Eagle Head; 1717958-Eagles; 1717959-Simplicity Logo)
5	1717956		RH Eagles Logo
5	1717957		Eagle Head
5	1717958		Eagles
5	1717959		Simplicity Logo
6	1717855	1	GIANTS Decal Set -(Includes 1717823-RH Giants Logo; 1717824-Simplicity Logo; 1717825-Giants; 1717826-Giants Helmet)
6	1717823		RH Giants Logo
6	1717824		Simplicity Logo
6	1717825		Giants
6	1717826		Giants Helmet
7	1717856	1	JETS Decal Set -(Includes 1717827-RH Jets Logo; 1717828-Simplicity Logo; 1717829-Jets; 1717830-Jets Helmet)
7	1717827		RH Jets Logo
7	1717828		Simplicity Logo
7	1717829		Jets
7	1717830		Jets Helmet
8	1717857	1	LIONS Decal Set -(Includes 1717831-RH Lions Logo; 1717832-Simplicity Logo; 1717833-Lions; 1717834-LH Lions Logo)
8	1717831		RH Lions Logo
8	1717832		Simplicity Logo
8	1717833		Lions
8	1717834		LH Lions Logo
9	1717858	1	PACKERS Decal Set -(Includes 1717835-RH Packers Logo; 1717836-Simplicity Logo; 1717837-Packers; 1717838-LH Packers Logo)
9	1717835		RH Packers Logo
9	1717836		Simplicity Logo
9	1717837		Packers



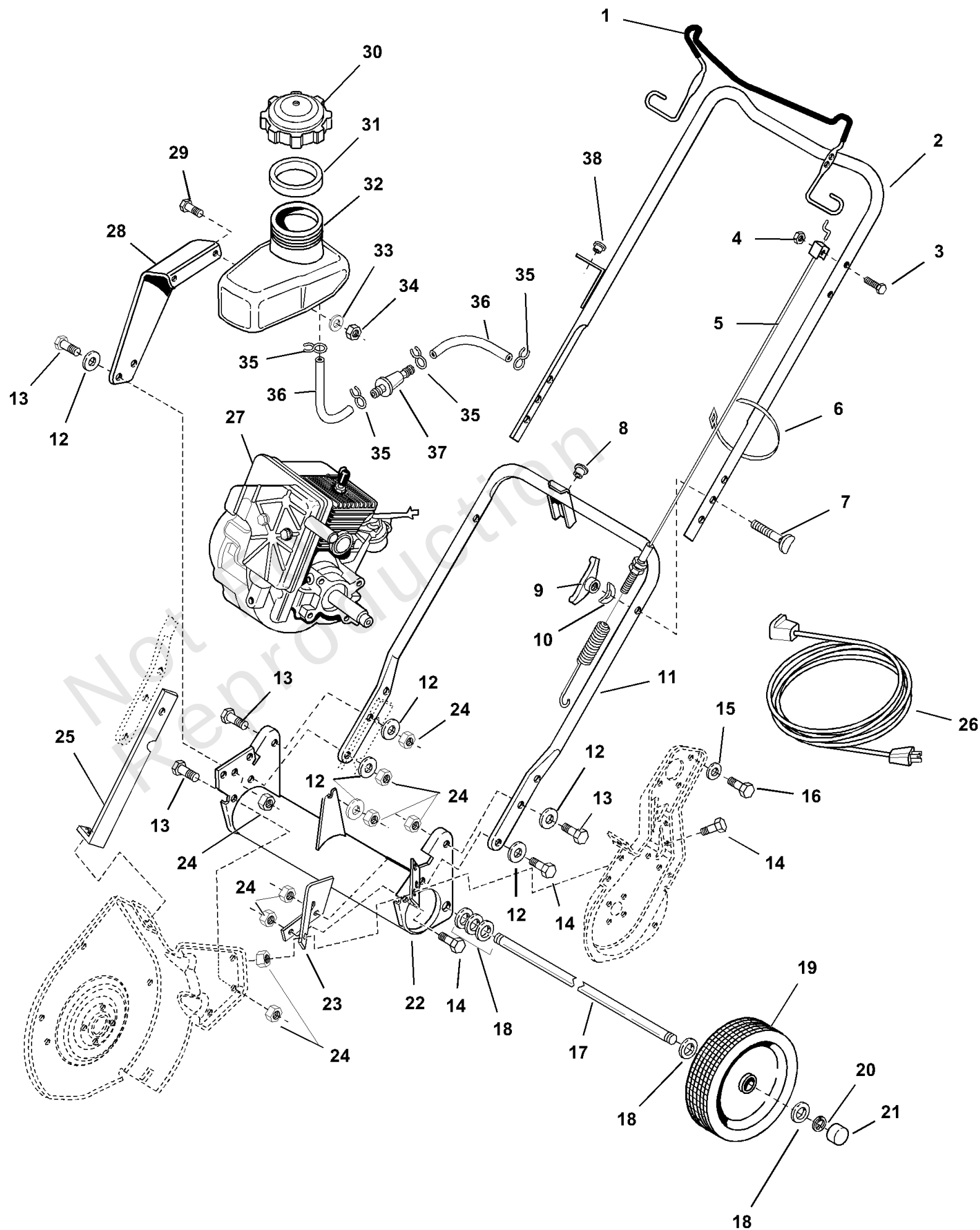
Decals - Snow Tackler Team

REF NO	PART NO	QTY	DESCRIPTION
9	1717838		LH Packers Logo
10	1717859	1	PATRIOTS Decal Set -(Includes 1717839-RH Patriots Logo; 1717840-Simplicity Logo; 1717841-Patriots; 1717842-LH Patriots Logo)
4	1717839		RH Patriots Logo
4	1717840		Simplicity Logo
4	1717841		Patriots
4	1717842		LH Patriots Logo
11	1717860	1	RAMS Decal Set -(Includes 1717843-RH Rams Logo; 1717844-Simplicity Logo; 1717845-Rams; 1717846-LH Rams Logo)
11	1717843		RH Rams Logo
11	1717844		Simplicity Logo
11	1717845		Rams
11	1717846		LH Rams Logo
12	1717861	1	STEELERS Decal Set -(Includes 1717847-RH Steelers Logo; 1717848-LH Steelers; 1717849-Simplicity Logo; 1717850-Steelers; 1717851-RH Steelers Logo; 1718013-RH Steelers)
12	1717847		RH Steelers Logo
12	1717848		LH Steelers
12	1717849		Simplicity Logo
12	1717850		Steelers
12	1717851		RH Steelers Logo
12	1718013		RH Steelers
13	1717895	1	VIKINGS Decal Set -(Includes 1717896-RH Vikings Helmet; 1717897-Simplicity Logo; 1717898-Vikings; 1717899-LH Vikings Helmet)
13	1717896		RH Vikings Helmet
13	1717897		Simplicity Logo
13	1717898		Vikings
13	1717899		LH Vikings Helmet

Frame, Handles & Engine Group - Early Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1692979



Frame, Handles & Engine Group - Early Models

REF NO	PART NO	QTY	DESCRIPTION
1	1720525SM	1	AUGER CONTROL BAIL, Coated
2	1686793SM	1	UPPER HANDLE ASSY.
3	1921961SM	1	CAPSCREW, Hex Hd., 1/4-20 x 1-1/4
4	1923358SM	1	NUT, Hex Centerlock, 1/4-20
5	1720323SM	1	CABLE, Auger Control
6	1701011SM	1	TIE, Wrap
7	1931338SM	2	BOLT, Rd. Hd., 5/16-18 x 1-3/4
8	1716678SM	1	SNAP BUSHING, 3/8
9	1716632SM	2	KNOB, Wing
10	1717312SM	2	WASHER, Curved, 5/16
11	1716643SM	1	LOWER HANDLE ASSY.
12	1919326SM	6	WASHER, 5/16
13	1921332SM	6	CAPSCREW, Hex Hd., 5/16-18 x 3/4
14	703570	2	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
15	1917356SM	4	LOCKWASHER, 5/16
16	1921332SM	4	CAPSCREW, Hex Hd., 5/16-18 x 3/4
17	1716608SM	1	SHAFT, Axle
18	1924940SM	7	WASHER
19	7026240SM	2	SEMI-PNEUMATIC TIRE
20	1716622SM	2	RING, Retainer, Ext., #37
21	1716664SM	2	CAP, Hub
22	1716613SM	1	TUBE FRAME ASSY.
23	1719541SM	1	BRACKET, Reinforcement
24	1919438SM	9	NUT, Hex Lk., Esna, 5/16-18
25	1718507SM	1	STRAP
26	-----	1	CORD, Extension (Electric Start Models)
27	-----	1	ENGINE, Manual Start, Model
27	-----	1	ENGINE, Electric Start
28	1716638SM	1	TANK BRACKET
29	1923341SM	2	CAPSCREW, Hex Hd., 1/4-20 x 3/4
30	1716646SM	1	CAP, Fuel
31	1717747SM	1	GASKET, Foam Ring
32	1716634SM	1	FUEL TANK
33	1921319SM	2	WASHER
34	1920397SM	2	NUT, Hex Lk. Esna, 1/4-20
35	2860112SM	4	CLAMP, Wire Form
36	1716681SM	2	HOSE, Fuel, 5-1/2 long
37	2173206SM	1	FILTER, Gas
38	1716676SM	1	SNAP BUSHING, 1/4

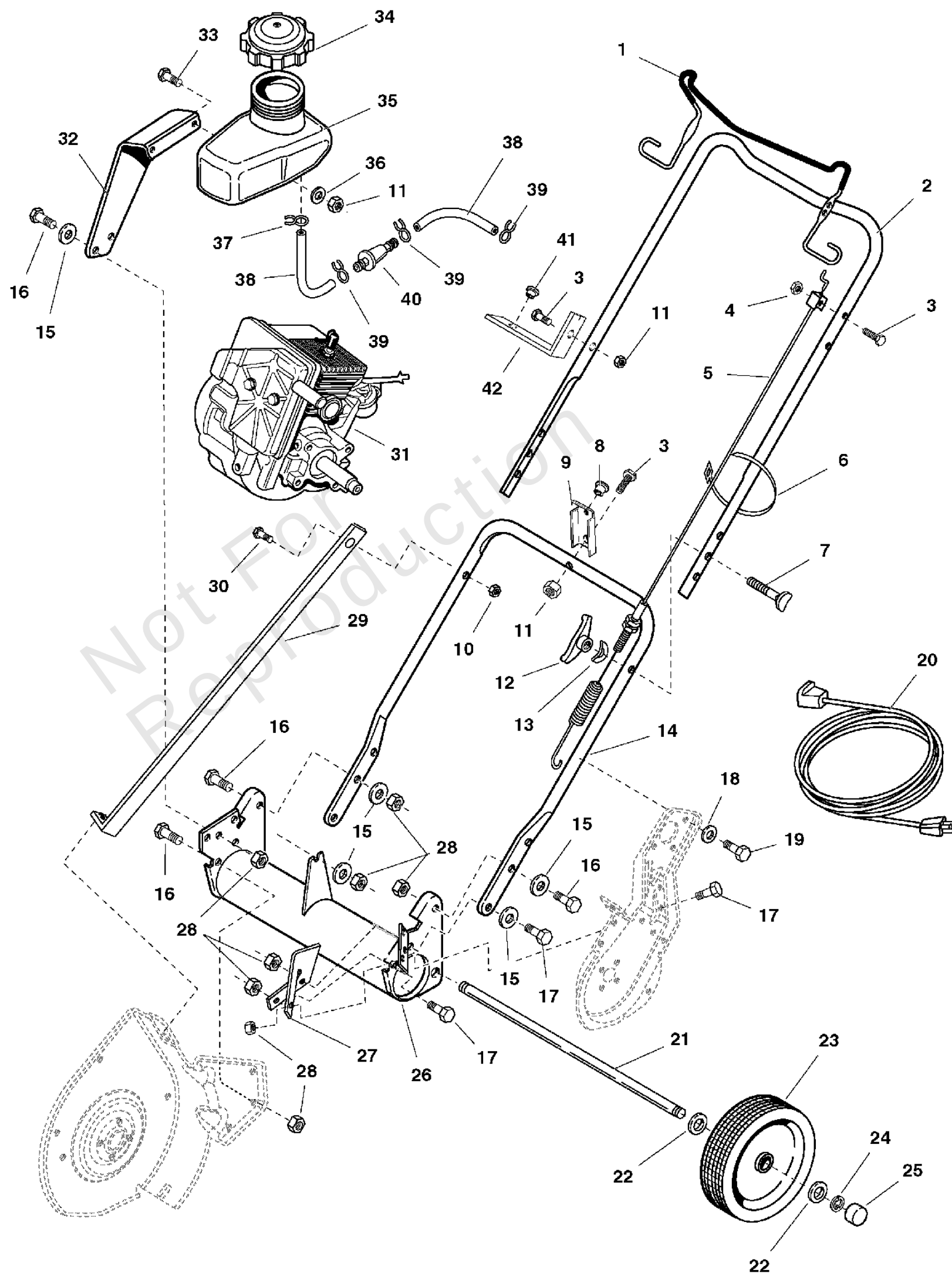
Footnotes:

Note:* See your local Tecumseh distributor for service parts.

Frame, Handles & Engine Group - Later Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1692979



Frame, Handles & Engine Group - Later Models

REF NO	PART NO	QTY	DESCRIPTION
1	1720525SM	1	HANDLE, Auger Control
2	1720641SM	1	HANDLE, Upper
3	1921961SM	3	CAPSCREW, Hex Hd., 1/4-20 x 1-1/4
4	1923358SM	1	NUT, Hex Centerlock, 1/4-20
5	1720323SM	1	CABLE, Auger Control
6	1701011SM	1	TIE, Self Locking
7	1931338SM	2	BOLT, Rd. Hd., 5/16-18 x 1-3/4
8	1716678SM	1	SNAP BUSHING, 3/8
9	1720574SM	1	BRACKET, Chute Rotator Rod
10	1933896SM	1	NUT, Hex Lk., #10-24
11	1920397SM	4	NUT, Hex Lk. Esna, 1/4-20
12	1716632SM	2	KNOB, Wing
13	1717312SM	2	WASHER, Curved, 5/16
14	1720573SM	1	HANDLE, Lower
15	1919326SM	6	WASHER, 5/16
16	1921332SM	6	CAPSCREW, Hex Hd., 5/16-18 x 3/4
17	703570	2	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
18	1917356SM	4	LOCKWASHER, 5/16
19	1921332SM	4	CAPSCREW, Hex Hd., 5/16-18 x 3/4
20	-----	1	CORD, Extension (Electric Start Models)
21	1716608SM	1	SHAFT, Axle
22	1924940SM	4	WASHER
23	7026240SM	2	TIRE, Semi-pneumatic
24	1716622SM	2	RING, Retainer, Ext., #37
25	1716664SM	2	CAP, Hub
26	1716613SM	1	FRAME ASSY.
27	1719541SM	1	BRACKET, Reinforcement
28	1919438SM	9	NUT, Hex Lk., Esna, 5/16-18
29	1720322SM	1	STRAP, Support
30	2860604SM	1	SCREW, Hex Wshr. Hd., #10-24 x 1-1/4
31	-----	1	ENGINE, Manual Start
31	-----	1	ENGINE, Electric Start
32	1716638SM	1	BRACKET, Fuel
33	1923341SM	2	CAPSCREW, Hex Hd., 1/4-20 x 3/4
34	1716646SM	1	CAP, Fuel
35	1716634SM	1	TANK, Fuel
36	1921319SM	2	WASHER
37	1679061SM	1	CLAMP, Hose
38	1716681SM	2	HOSE, Fuel, 5-1/2 long
39	2860112SM	3	CLAMP, Wire Form
40	2173206SM	1	FILTER, Gas
41	1716676SM	1	SNAP BUSHING, 1/4
42	1720640SM	1	BRACKET, Starter Handle

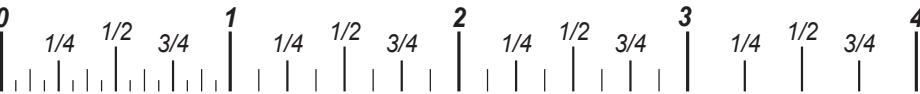
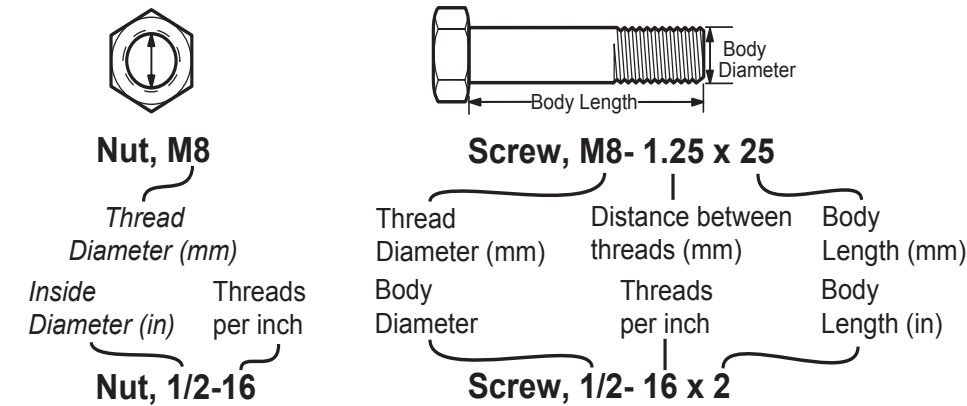
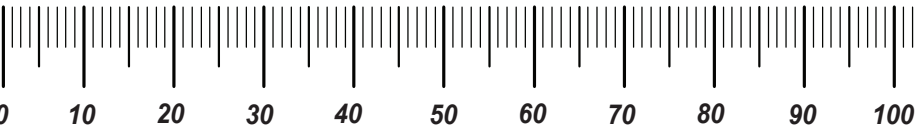
Footnotes:

Note:* See your local Tecumseh distributor for service parts.

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).

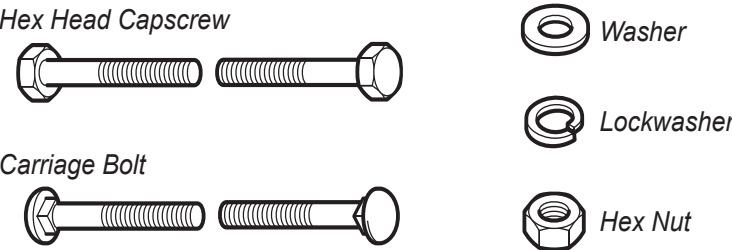
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

