



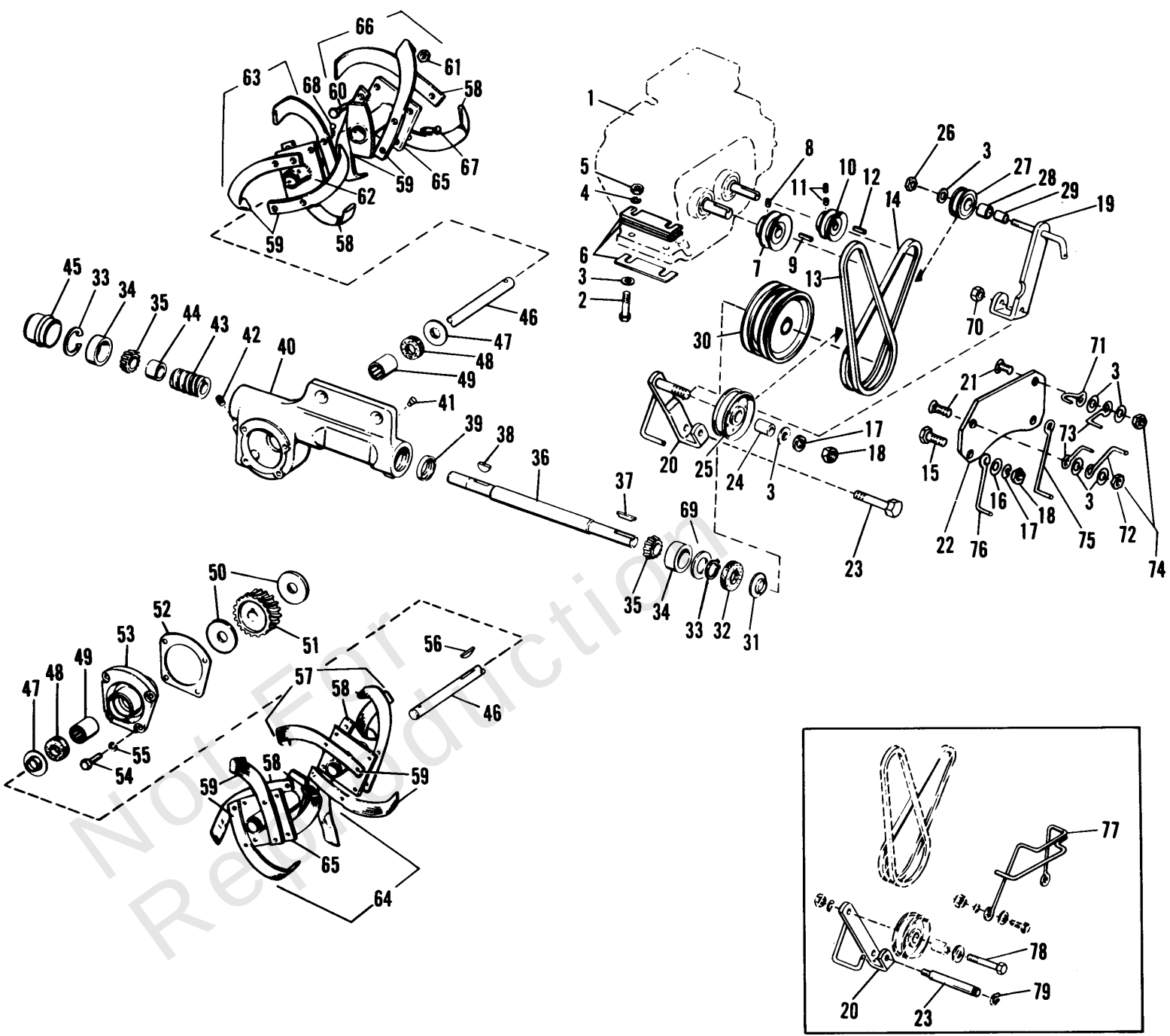
Parts Manual

Mfg. No: 1600400

Roticut System 1005, 5HP Walk-
BehindTiller

Model Components	Page
Drive & Tines.....	4
Frame, Handles & Controls.....	10
Torque Specification Chart.....	12

Not For
Reproduction

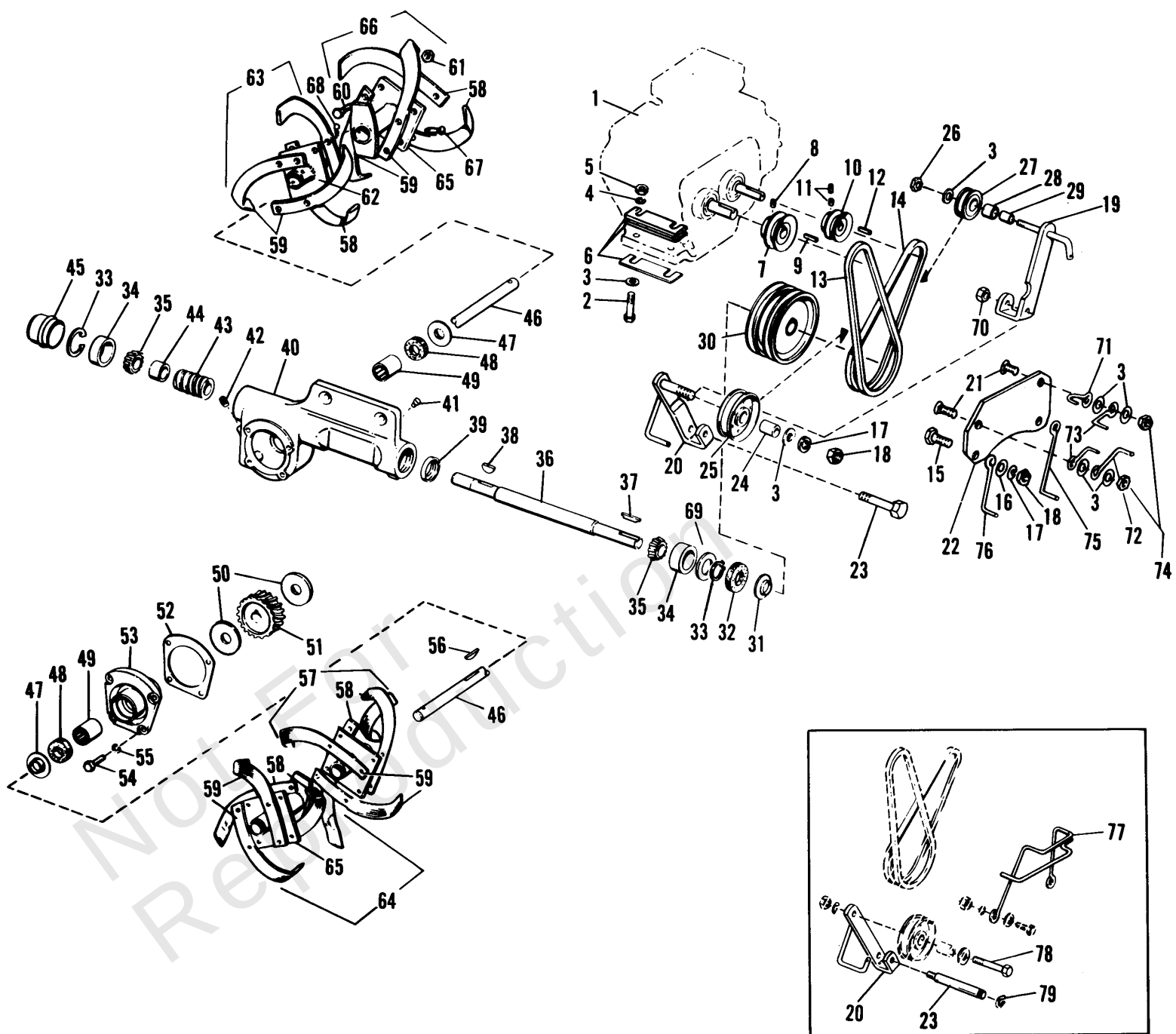


Drive & Tines

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	ENGINE, 3 HP or 5 HP, Briggs & Stratton, Model 130292, Type 0141-02
2	2819354	4	CAPSCREW, Hex Hd., 5/16-18 x 2
3	2817642	13	WASHER, Plain, 5/16
4	1917356SM	4	LOCKWASHER, 5/16
5	1917372SM	4	NUT, Hex, Full, 5/16-18
6	118463	6	SHIM
7	2118027SM	1	PULLEY, Engine
8	2830544	1	SETSCREW, 5/16-18 x 3/8
9	1729279SM	1	KEY, Square
10	118457	1	PULLEY, Engine
11	2828691	2	SETSCREW, 5/16-18 x 5/16
12	2805121SM	1	KEY
13	2118494	1	BELT, V, Reverse
14	2164146SM	1	BELT, V, Forward
15	2807731	2	CAPSCREW, Hex Hd., 3/8-18 x 1
16	1924940SM	2	WASHER, Plain, 3/8
17	1916965SM	3	LOCKWASHER, 3/8
18	2816950SM	3	NUT, Hex, Full, 3/8-16
19	118408	1	LEVER ASSY, Idler
19	1609352	2	LEVER ASSY, Idler (1600400 Only)
20	172751	1	LEVER ASSY, Idler
20	118411	1	LEVER ASSY, Idler -Used On Mfg. No. 990549 Only
21	2822249	2	BOLT, Carriage, 3/8-16 x 1 -Used On Mfg. No. 990938, 990695, 990702
22	172846	1	PLATE -Used On Mfg. No. 990938, 990695, 990702
23	171336	1	BOLT, Pivot
23	118425	1	PIN, Pivot -Used On Mfg. No. 990549 Only
24	2118335SM	1	SPACER
24	118415	1	SPACER -Used On Mfg. No. 990549 Only
25	2154534SM	1	PULLEY, Idler
26	2828731	1	LOCKNUT, 3/8-16
27	101002	1	PULLEY, Idler Assy
28	8161243	1	BUSHING
29	8191020	1	SPACER
30	171987	1	PULLEY, Driven
30	118404	1	PULLEY, Driven -Used On Mfg. No. 990549 Only
31	118400	1	SHIELD
32	2118393SM	1	SEAL, Oil
33	118396	2	RING, Snap
34	2154393SM	2	CUP, Bearing
35	2154486SM	2	BEARING, Roller
36	170888	1	SHAFT, Worm
36	103199	1	SHAFT, Worm -Used On Mfg. No. 990549 Only
37	118439	1	KEY

Footnotes:

Note:* See your local Briggs & Stratton distributor for parts & service.



Drive & Tines

REF NO	PART NO	QTY	DESCRIPTION
38	911171	1	KEY
39	118399	1	CUP
40	118392	1	HOUSING, Worm Drive
41	2118462SM	1	PLUG, Vent
42	2801653	1	PLUG, Pipe, 3/8
43	118492	1	WORM, R.H.
44	118398	1	SPACER
45	2154487SM	1	CAP, Hub
46	118021	1	SHAFT, Worm Gear
47	2118403SM	2	SHIELD
48	2118118SM	2	SEAL, Oil
49	2118020SM	2	BEARING, Needle
50	2118315SM	2	WASHER, Thrust
51	2118022SM	1	GEAR, Worm, R.H.
52	2118024SM	1	GASKET
53	118402	1	COVER
54	2821959	4	CAPSCREW, Hex Hd., 1/4-20 x 5/8
55	2816964SM	4	LOCKWASHER, 1/4
56	2830246SM	1	KEY, Woodruff
57	118083	1	TINE ASSY, L.H. Inner
58	1729271SM	8	TINE BLADE, L.H
59	1729272SM	8	TINE BLADE, R.H.
60	920488	32	CAPSCREW, Hex, 7/16-20 x 1-1/4
61	2828867	32	NUT, Hex, Full, 7/16-20
62	118084	2	TINE PLATE ASSY, Inner
63	118120	1	TINE BLADE ASSY, R.H. Inner
64	105288	1	BLADE ASSY, L.H. Tine
65	105286	1	BLADE ASSY, Tine Ext.
66	105289	1	BLADE ASSY, R.H. Tine
67	2118053SM	4	PIN
68	2818451	4	PIN, Cotter, 1/8 x 3/4
69	170885	1	BACKING RING or 171762 BACKING RING -Used On Mfg. No. 990938, 990695, 990702
70	2827557	1	NUT, Whiz Lock -Used On Mfg. No. 990938, 990695, 990702
71	106347	1	STOP, Belt -Used On Mfg. No. 990938, 990695, 990702
72	2172844SM	1	STOP, Belt -Used On Mfg. No. 990938, 990695, 990702
73	2172845SM	2	STOP, Belt -Used On Mfg. No. 990938, 990695, 990702
74	2823428	2	LOCKNUT, 3/8-16 -Used On Mfg. No. 990938, 990695, 990702
75	2106707SM	1	STOP, Belt -Used On Mfg. No. 990938, 990695, 990702
76	2165044	1	STOP, Belt -Used On Mfg. No. 990938, 990695, 990702
77	118448	1	STOP, Belt -Used On Mfg. No. 990549 Only
78	2819360	2	CAPSCREW, Hex Hd. 3/8-16 x 1-1/2 -Used On Mfg. No. 990549 Only

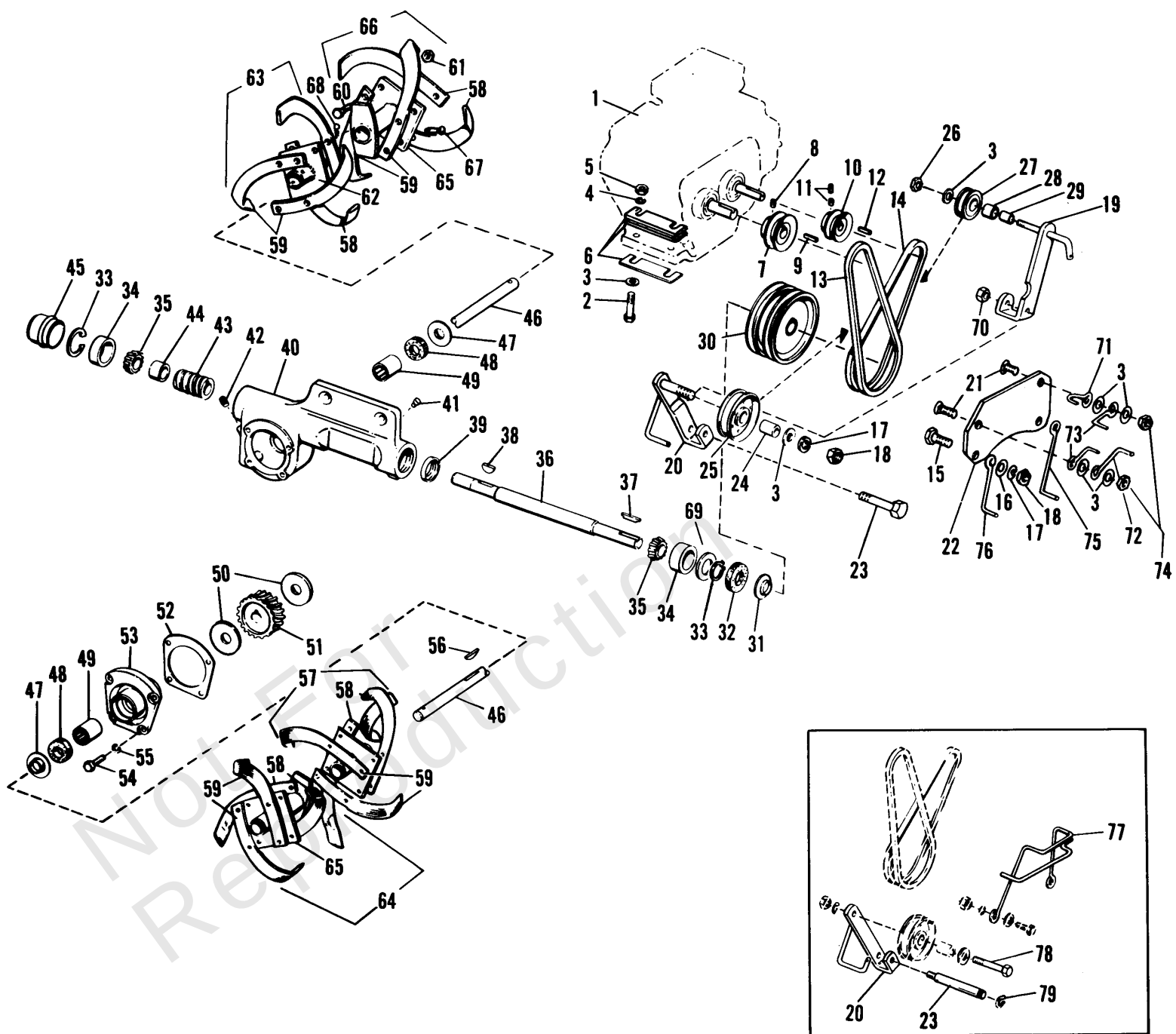
Footnotes:

Note:* See your local Briggs & Stratton distributor for parts & service.

Drive & Tines

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1600400



Drive & Tines

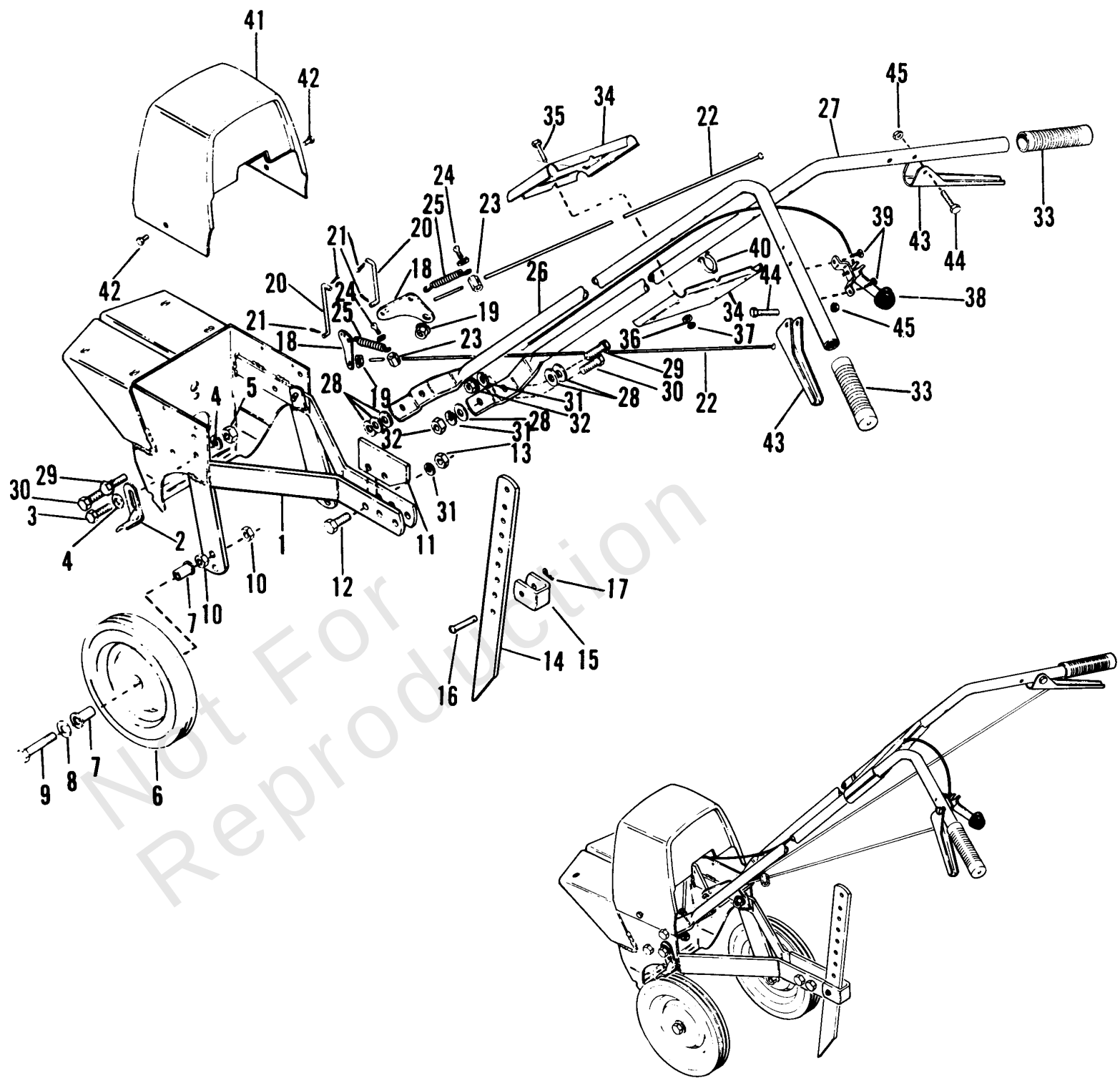
REF NO	PART NO	QTY	DESCRIPTION
79	2158399SM	1	RING, Retaining -Used On Mfg. No. 990549 Only

Not For
Reproduction

Frame, Handles & Controls

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1600400



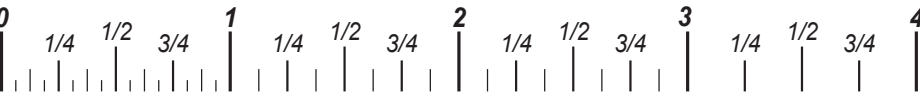
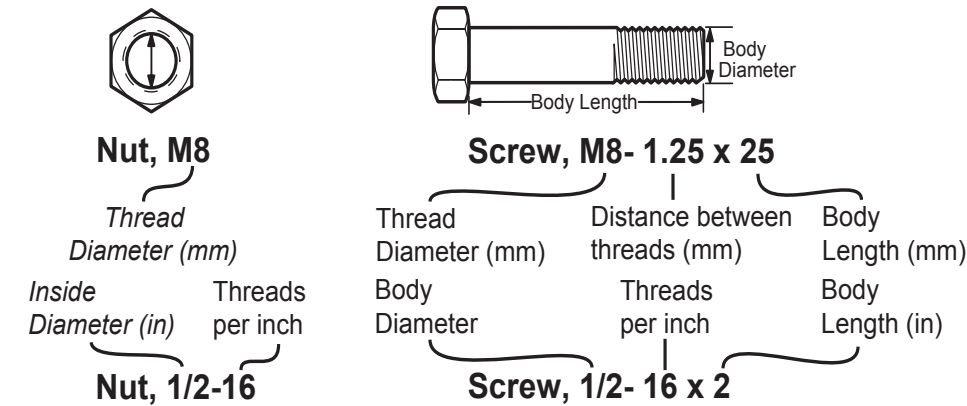
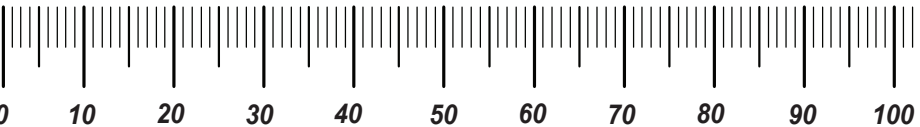
Frame, Handles & Controls

REF NO	PART NO	QTY	DESCRIPTION
1	1609357	1	FRAME ASSY
2	170360	2	SCRAPER -Used on Mfg. No. 1600400 only.
3	2821965	3	CAPSCREW, Hex, 3/8-16 x 3/4 -Used on Mfg. No. 1600400 only.
4	1916965SM	7	LOCKWASHER, 3/8 -Used on Mfg. No. 1600400 only.
5	2816950SM	2	NUT, Hex, 3/8-16 -Used on Mfg. No. 1600400 only.
6	1657033	2	WHEEL & TIRE ASSY -Used on Mfg. No. 1600400 only.
6	118469	2	WHEEL & TIRE ASSY
7	2118132SM	4	BUSHING, Wheel
8	2818431	2	WASHER, Flat, 1/2
9	2808305	2	CAPSCREW, Hex, 1/2-13 x 3-1/4
10	2813744	4	NUT, Hex, 1/2-13
11	118207	1	PLATE, Stop
12	2819360	2	CAPSCREW, Hex, 3/8-16 x 1
13	2816950SM	9	NUT, Hex, 3/8-16
14	118081	1	BAR, Depth
15	118447	1	CLAMP
16	2105249SM	1	PIN, Inner
17	1918196SM	1	CLIP, Hair Pin
18	1609295	2	BELLCRANK
19	2829001	2	LOCKNUT, Flange
20	1609299	2	LINK, Rod
21	2823360	4	PIN, Cotter, 1/16 x 3/4
22	1609378	2	ROD, Control
23	1610-92	2	CLAMP, Wire
24	928722	2	SETSCREW, #10-24 x 5/8
25	2118495SM	2	SPRING
26	1609354	1	HANDLE, L.H.
27	1609344	1	HANDLE, R.H.
28	1924940SM	6	WASHER, Flat, 3/8
29	918728	2	SCREW, Hex, Whiz-Lock, 3/8-16 x 1
30	2830579	2	CAPSCREW, Hex, 3/8-16 x 1-1/4
31	1916965SM	4	LOCKWASHER, 3/8
32	2816950SM	4	NUT, Hex, 3/8-16
33	2106558	2	GRIP
34	118298	2	COVER, Upper Handle
35	2818240	4	CAPSCREW
36	2816964SM	4	LOCKWASHER, 1/4
37	2816622SM	4	NUT, Hex, 1/4-20
38	1609382	1	CONTROL ASSY, Throttle -Used on Mfg. No. 1600400 only.
38	1657200	1	CONTROL ASSY, Throttle
39	2829477	2	SCREW, #10-24 x 1/2
40	1605216	1	CLIP, Cable
41	170359	1	COVER
42	2827428	2	SCREW, Self-Tapping, 1/4-20 x 3/8
43	1609300	2	GRIP, Clutch
44	2818240	2	CAPSCREW
45	2823358	2	LOCKNUT, Hex, 1/4-20

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).

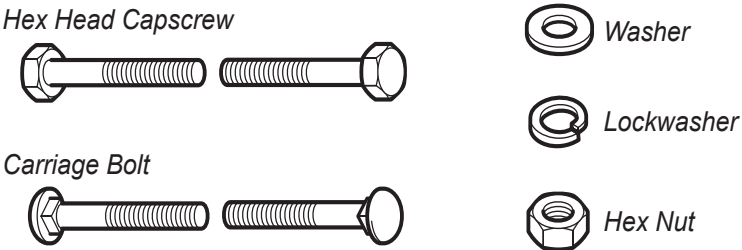
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

