

Parts Manual

Mfg. No: Article 5346
24" Lawn Mower

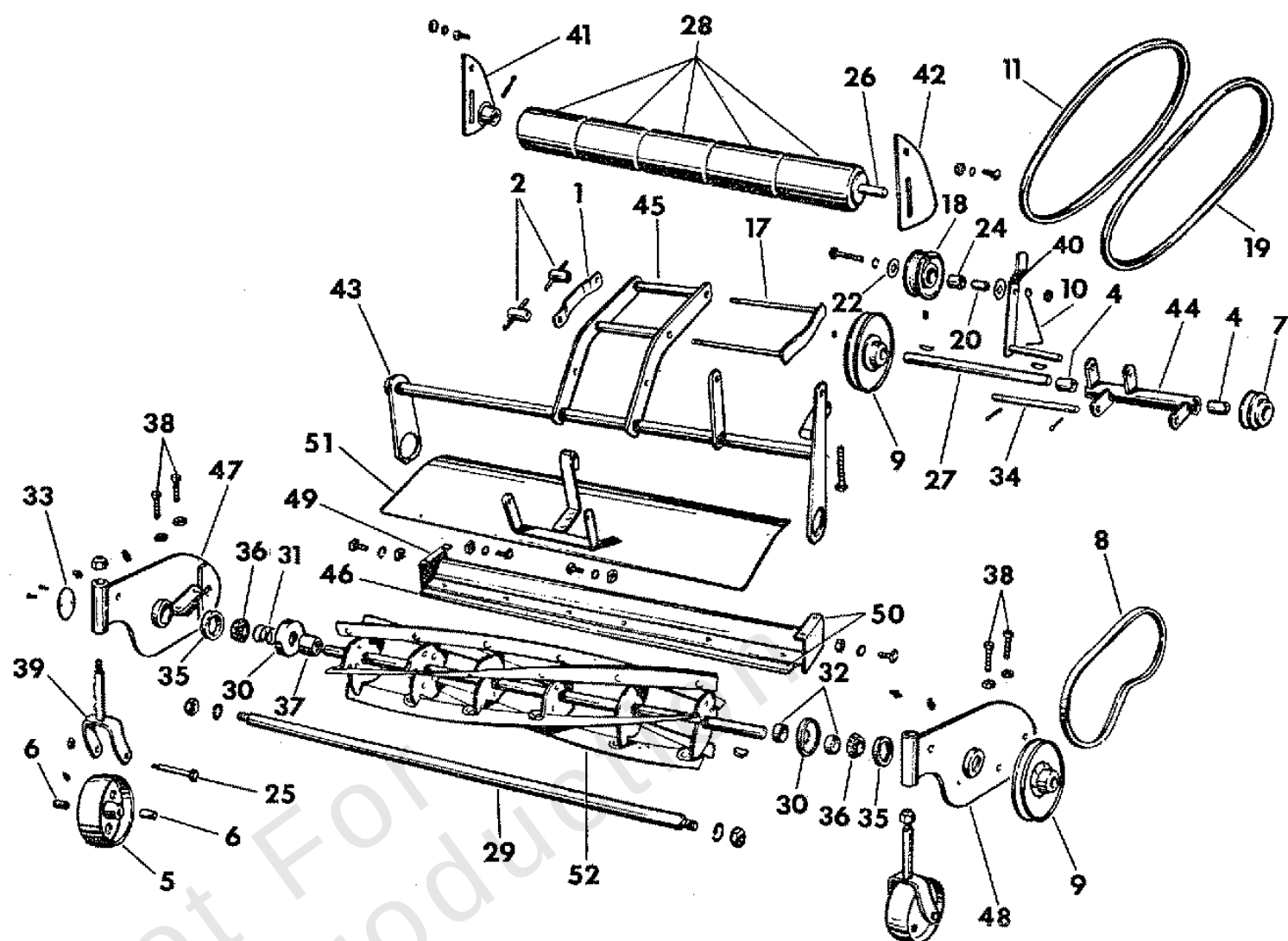
Model Components	Page
24" Lawn Mower (3697106).....	4
Torque Specification Chart.....	6

Not For
Reproduction

24" Lawn Mower (3697106)

Note: Unless noted otherwise, use the standard torque specifications

Article 5346



24" Lawn Mower (3697106)

REF NO	PART NO	QTY	DESCRIPTION
1	8161029	1	SIDE PLATE, Hitch
2	8161041	2	WING NUT, Complete
4	8161059	2	BUSHING, Bronze
5	8131502	1	CASTER WHEEL, w/ Bearing and Grease Fitting
6	8161115	2	CASTER WHEEL, Bearing
7	8161117	1	REEL, Driver Sheave
8	8161120	1	REEL, Drive Belt, 27" Circumference
9	8161123	1	COUNTER SHAFT & REEL SHEAVE
10	8161158	1	BELT, Holder
11	2158573SM	1	BELT, 31", 2 H.P. Only
17	8162501	1	CLAMP ASSEMBLY, Hitch
18	8261003	1	PULLEY, Idler
19	8161217	1	BELT, 36", 3 H.P. Only
20	8191020	1	INNER BEARING RACE
22	8191037	1	WASHER, Thrust
24	8191048	1	BEARING, Idler Pulley
25	8171020	1	SPINDLE, Caster Wheel
26	8171021	1	SHAFT, Roller
27	8171022	1	SHAFT, Transmission
28	8171023	5	ROLLER, Hard Wood
29	8171024	1	ROD, Spacer
30	8171025	2	COVER, Bearing
31	8171026	1	SPRING, Bearing
32	8171027	2	SPACER, Bearing, Short
33	8171028	1	CAP, Bearing
34	8171029	1	PIN, Hinge
35	8171030	1	CAP, Bearing, Timken
36	8171034	2	CONE, Bearing, Timken
37	8171032	1	SPACER, Bearing, Long
38	8171033	4	SCREW, Blade Adjusting
39	8171514	1	FORK ASSEMBLY, Caster
40	8171505	1	LEVER ASSEMBLY, Idler
41	8171506	1	BRACKET, Roller, R.H.
42	8171507	1	BRACKET, Roller, L.H.
43	8171508	1	ARM ASSEMBLY, Push, R.H.
44	8172502	1	BEARING BRACKET, w/ Bushings & Grease Fitting
45	8172503	1	ARM ASSEMBLY, Push, LH. Push Arm
46	-----	1	BLADE
47	8173501	1	FRAME ASSEMBLY, Lawn Mower, R.H.
48	8173502	1	FRAME ASSEMBLY, Lawn Mower, L.H.
49	8173503	1	BAR ASSEMBLY, Cutter
50	-----	1	BAR ASSEMBLY, Cutter, w/ Blade
51	8173505	1	GUARD ASSEMBLY, Grass
52	-----	1	REEL ASSEMBLY, 24"

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

