



Parts Manual

Mfg. No: 225130x00A
Walk-Behind Mower (2001)

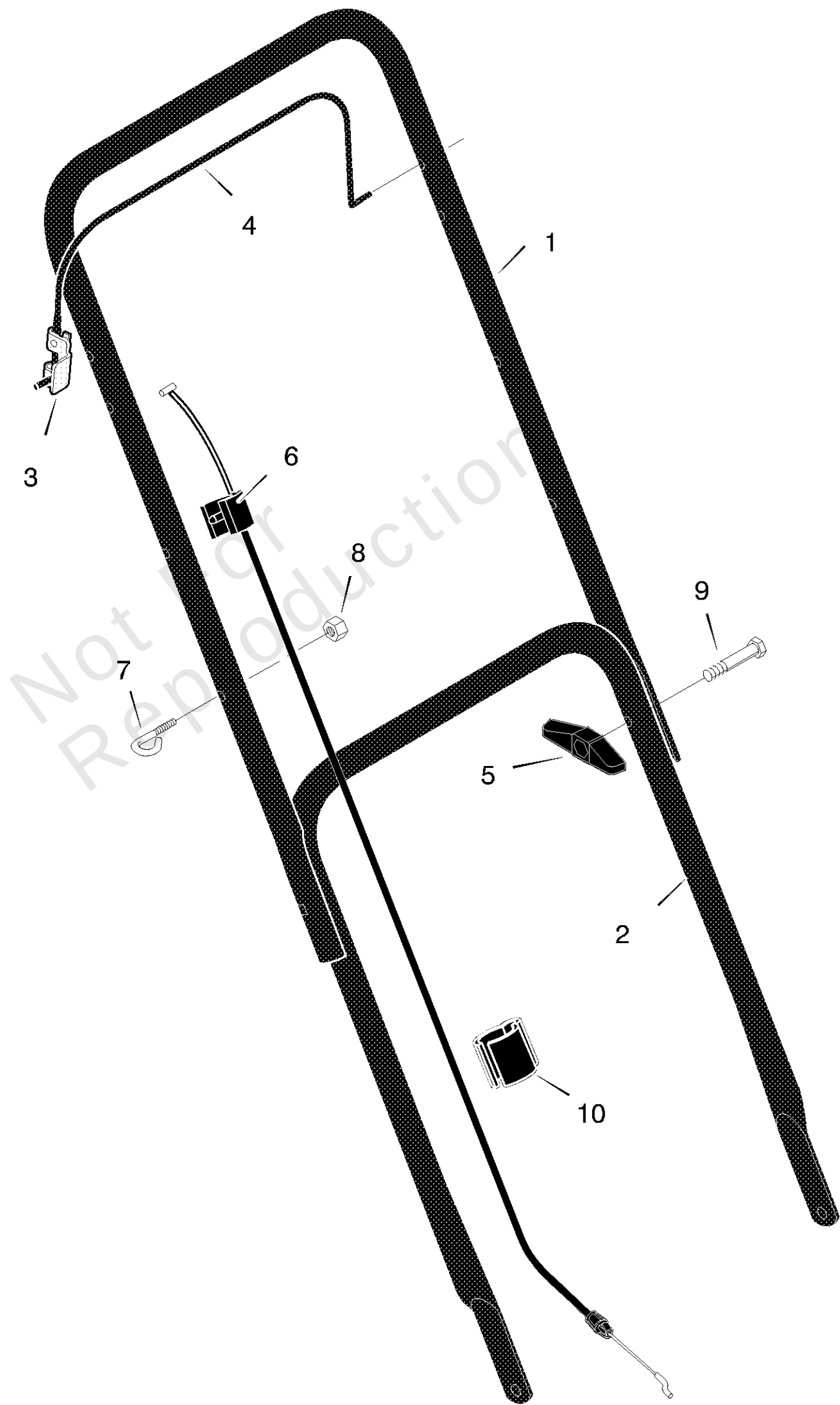
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Not For
Reproduction

Handle Assembly

Note: Unless noted otherwise, use the standard torque specifications

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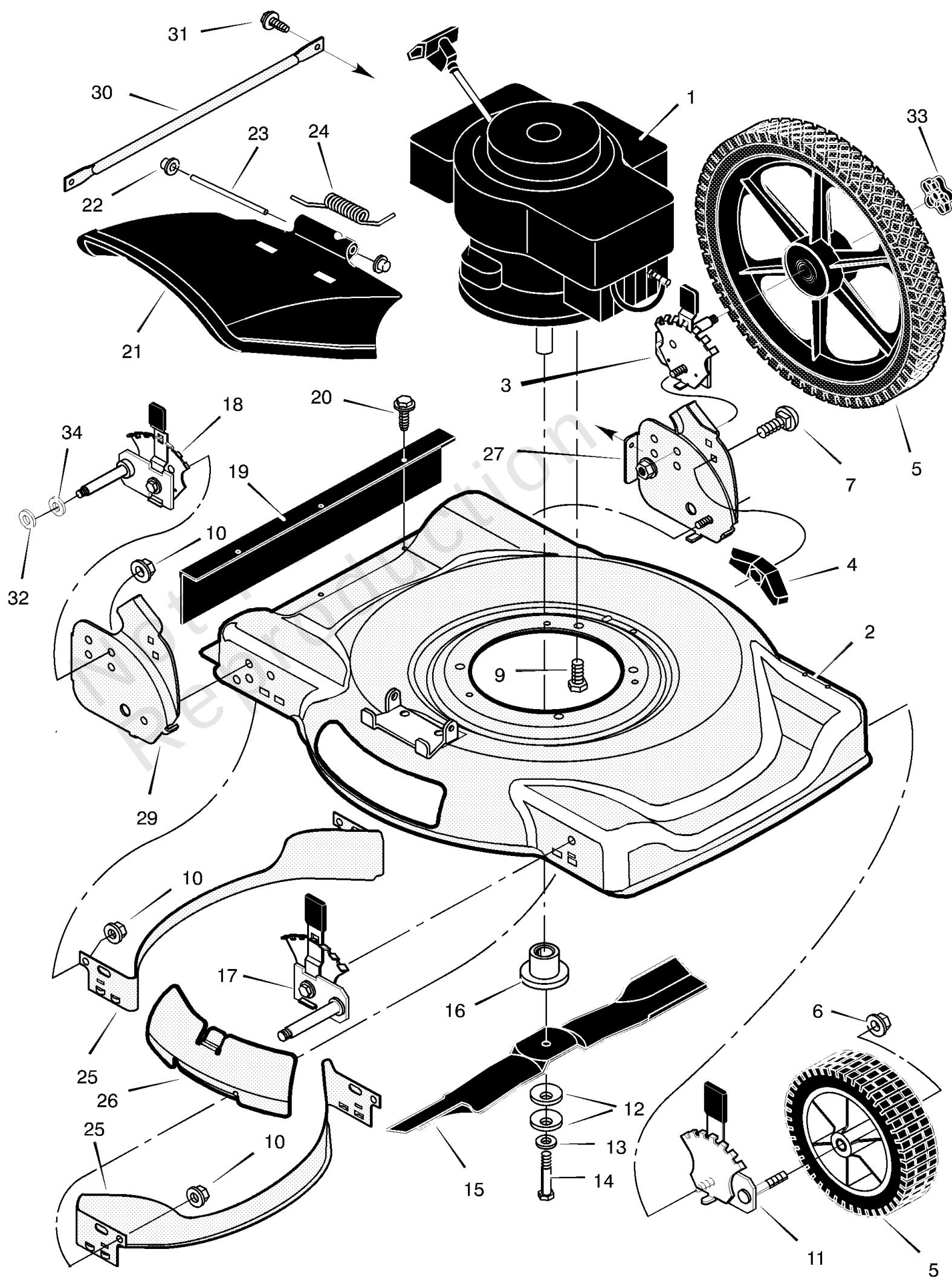
Handle Assembly

REF NO	PART NO	QTY	DESCRIPTION
1	071581E701MA		HANDLE UPPER 22SD P,S
2	071137E701MA		LOWER HANDLE 21/22 MA
3	1101454		Bracket, Stop Lever
4	043653E701MA		Lever, Stop
5	071294		Knob, Plastic
6	672835MA		Engine Stop Cable
7	071530MA		ROPE GUIDE-UPPER
8	15X116MA		Locknut
9	002X77MA		Bolt
10	1101352		Fastener, Single Cable

Mower Housing Assembly

Note: Unless noted otherwise, use the standard torque specifications

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Mower Housing Assembly

REF NO	PART NO	QTY	DESCRIPTION
1	-----		Engine
2	776024MA		Housing
3	672645MA		Height Adjuster, Left Rear
4	071495MA		Knob
5	672060MA		Wheel and Tire - Front
5	672074MA		Wheel and Tire - Rear
6	015X84MA		Locknut, Flange
7	002X81MA		Bolt, Carriage
9	0025X6MA		Bolt, Engine
10	015X68MA		Nut
11	672601MA		Height Adjuster, Left Front
12	17X137MA		Washer, Belleville
13	17X124MA		Washer
14	01X142MA		Bolt, Hex
15	1101120E701MA		Blade
16	071056MA		Adapter, Blade
17	672600MA		Height Adjuster, Right Front
18	672644MA		Height Adjuster, Right Rear
19	672738MA		Guard, Rear -(Included with Ref. No. 2)
20	26X245MA		SCREW-#10X.5 B W/WAS -(Included with Ref. No. 2)
21	672421MA		Deflector, Chute -(Included with Ref. No. 2)
22	028X42MA		Push-On Cap -(Included with Ref. No. 2)
23	215X11 Z		Pin, Pivot -(Included with Ref. No. 2)
24	0166X5MA		Spring -(Included with Ref. No. 2)
25	672744E701MA		Baffle
26	672422 Z		Plate, Mulcher -(Optional Accessory)
27	1101305E245MA		Bracket, Left Handle
29	1101304E245MA		Bracket, Right Handle
30	672728E245		Brace
31	26X263MA		SCREW.25-20 S-T
32	017X91 Z		Washer
33	672449MA		Knob, Axle
34	0020X3MA		WASHER,SPRING .52X.99
--	F-010400L		Book, Instruction

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

