



Parts Manual

Mfg. No: 22365x78C
Walk-Behind Mower (2005)

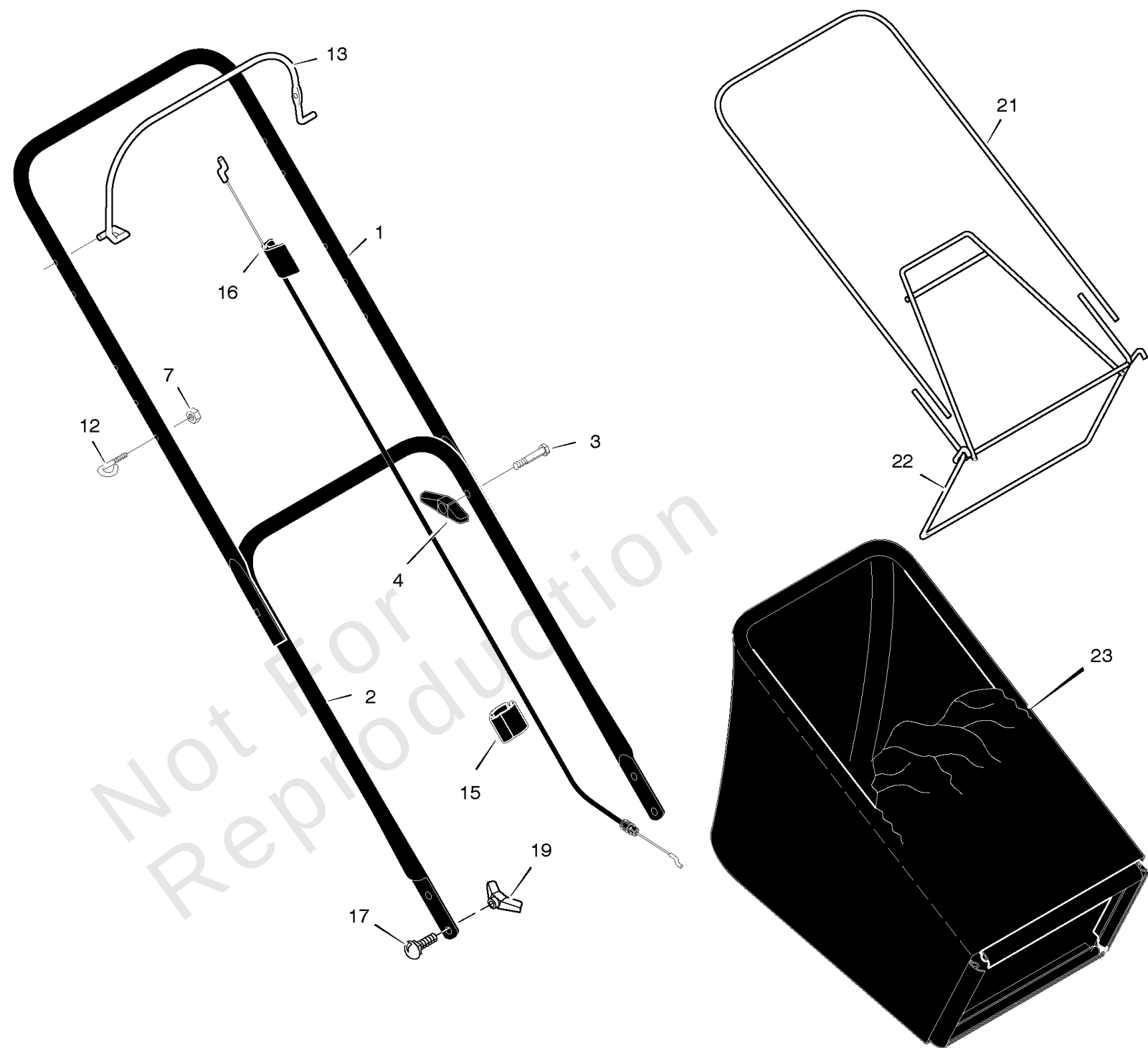
Model Components	Page
Handle & Bagger Assembly.....	4
Motor Housing Assembly.....	6
Torque Specification Chart.....	8

Not For
Reproduction

Handle & Bagger Assembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 22365x78C



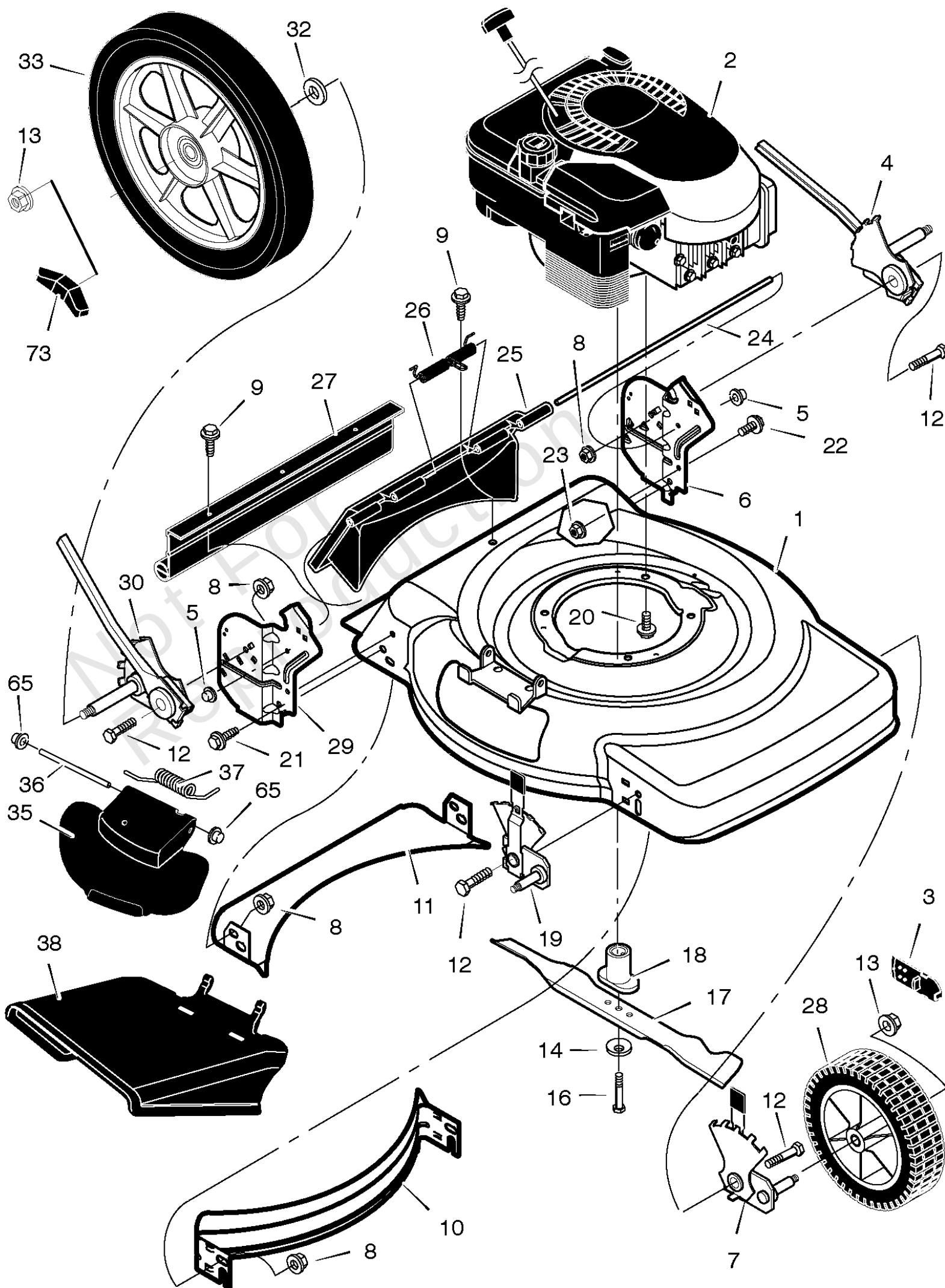
Handle & Bagger Assembly

REF NO	PART NO	QTY	DESCRIPTION
1	1101556E701MA		Handle, Upper (Black)
2	1102089E701		Handle, Lower (Black)
3	002X77MA		Bolt
4	071294		Knob, Plastic
7	15X116MA		Locknut
12	71530		Guide, Rope
13	1101964E701MA		Engine Stop Lever
15	1101353MA		Clip, Cable
16	1102092		Engine Stop Cable
17	002X81MA		Bolt, Carriage
19	071495MA		Knob, Plastic
21	1101075		Frame, Top
22	1101074		Frame Assembly
23	1101387		Bag, Cloth

Motor Housing Assembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 22365x78C



Motor Housing Assembly

REF NO	PART NO	QTY	DESCRIPTION
1	7501004MA		Housing
2	-----		Engine
3	043615MA		Cap, Hub -(Optional)
4	1102167		Adjuster, Left Rear Height
5	028X49MA		Push Retainer -(Included with Ref. No. 25)
6	1102123E700		Bracket, Left Handle
7	672601MA		Adjuster, Left Front Height
8	015X68MA		Nut, Flange
9	26X245MA		SCREW-#10X.5 B W/WAS
10	672915E700		Baffle, Front
11	672916E700		Baffle, Rear
13	015X84MA		Nut, Flange
14	1101999		Washer, Belleville
16	01X153MA		Bolt
17	1101823E701MA		Blade
18	1101824MA		Adapter, Blade
19	672600MA		Adjuster, Right Front Height
20	0025X6MA		Bolt, Engine
21	001X85MA		Bolt
22	001X45MA		Bolt
23	015X79MA		Nut, Flange
24	215X21MA		Rod, Pivot -(Included with Ref. No. 25)
25	1101070MA		Door, Rear (Black)
26	166X44MA		Spring -(Included with Ref. No. 25)
27	672684		Guard, Rear
28	071132MA		Wheel & Tire, Front
29	1102122E700		Bracket, Right Handle
30	1102166		Adjuster, Right Rear Height
32	017X91 Z		Washer
33	1102159		Wheel & Tire, Rear
35	1101098MA		Cover, Mulch (Black)
36	215X19 Z		Rod, Pivot
37	166X38MA		Spring, Torsion
38	1101097MA		Deflector, Chute (Black)
65	028X42MA		Push On Cap
73	672449MA		Knob -(Optional)
--	F-050463		Instruction Book

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

