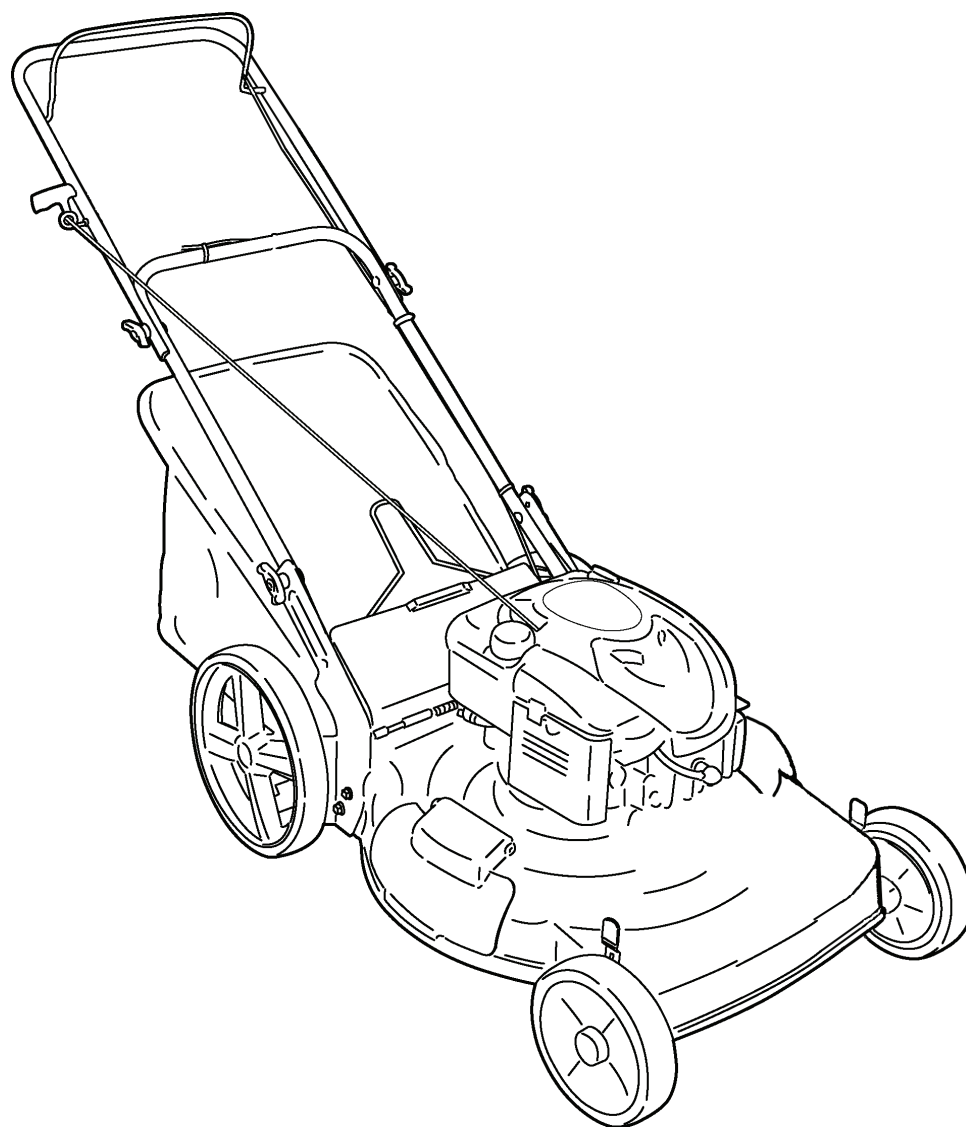


7800509 - BTP22675HW

Parts Manual



Manual Part No. 7103420

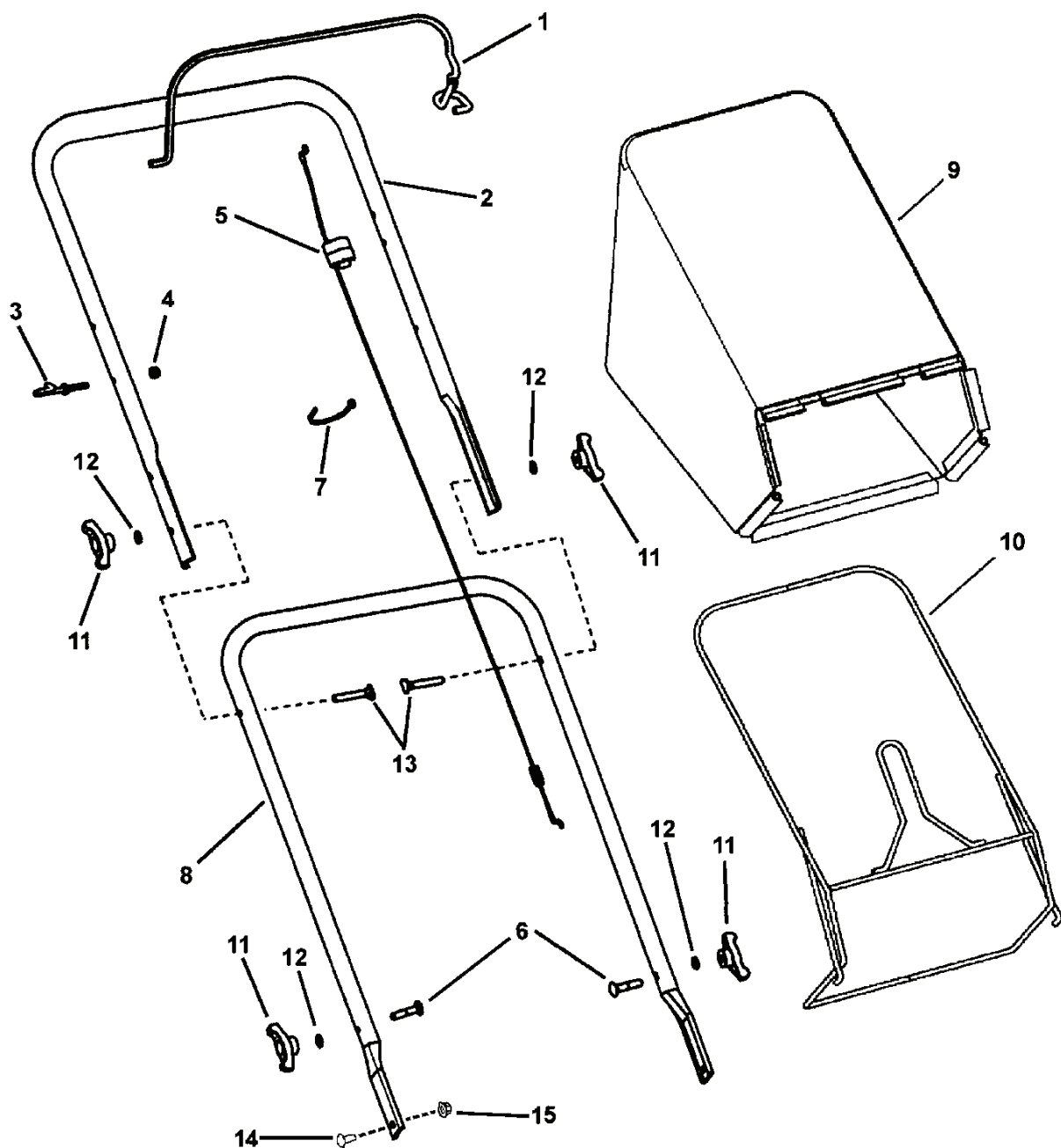
Revision B

Rev. Date: 10/14/2009

PRODUCT COMPONENTS	PAGES
Handle & Bag Group	4
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Decals	8
Deck Assembly - Push, Hi-Wheel	10
Torque Specification Chart	Inside Back Cover

Handle & Bag Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

7800509 - BT22675HW

Handle & Bag Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	7101675AYP	1	BAIL, OPC
2	7300705AMA	1	HANDLE, Upper
3	071530MA	1	GUIDE, Rope (1/4-20 thread)
4	7076978SM	2	NUT, Hex, 1/4C Nyl Rng
5	7100074YP	1	CABLE, Bail, HW (54.26" overall length)
6	7091714YP	2	BOLT, RHSN, 5/16C X1 GR5 YZ
7	7024649YP	3	WIRE TIE, 11" Std Blk Nylon
8	7301013AYP	1	HANDLE, Lower (2009)
9	7102573YP	1	BAG, Cloth, Grass Bag
10	7101230AYP	1	FRAME, Bag 22"
11	7035744YP	4	KNOB, 5/16-18 Wing (Black)
12	7090391SM	4	LOCKWASHER, 5/16
13	7091189YP	2	BOLT, 5/16-18 X 2 GR2
14	7091508SM	2	BOLT, 5/16-18 X 3/4 GR5 YZ
15	7090951SM	2	NUT, Hex, 5/16-18 Black

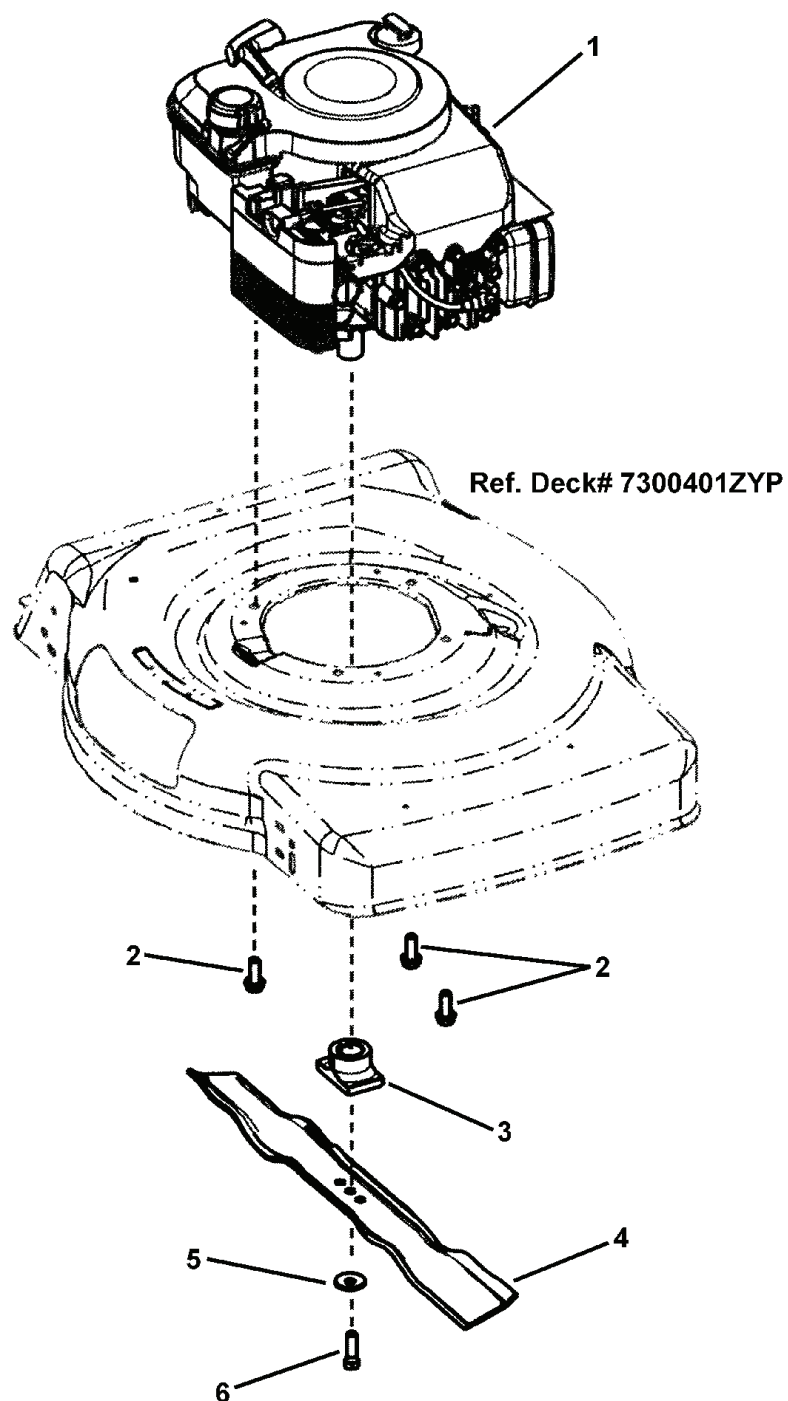
Footnotes

The above parts group applies to the following Mfg. Nos.:

7800509 - BT22675HW

Engine & Blade Assembly

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

7800509 - BT22675HW

Engine & Blade Assembly

REF NO	PART NO.	QTY.	DESCRIPTION
1	-----	1	* ENGINE, B&S, 650 Ser, Mod. 124T02-0650-B3
2	7090324SM	3	SCREW, 3/8-16 x 1 Hex Washer Self-Tap
3	7100862YP	1	HUB, Blade, 22"
4	7100851AYP	1	BLADE, 22"
5	1101989MA	1	WASHER, Bellville, .38 ID x 1.183 OD
6	7090824YP	1	SCREW, 3/8-24 x 1-1/4 Hex Head Cap, GR 5

Footnotes

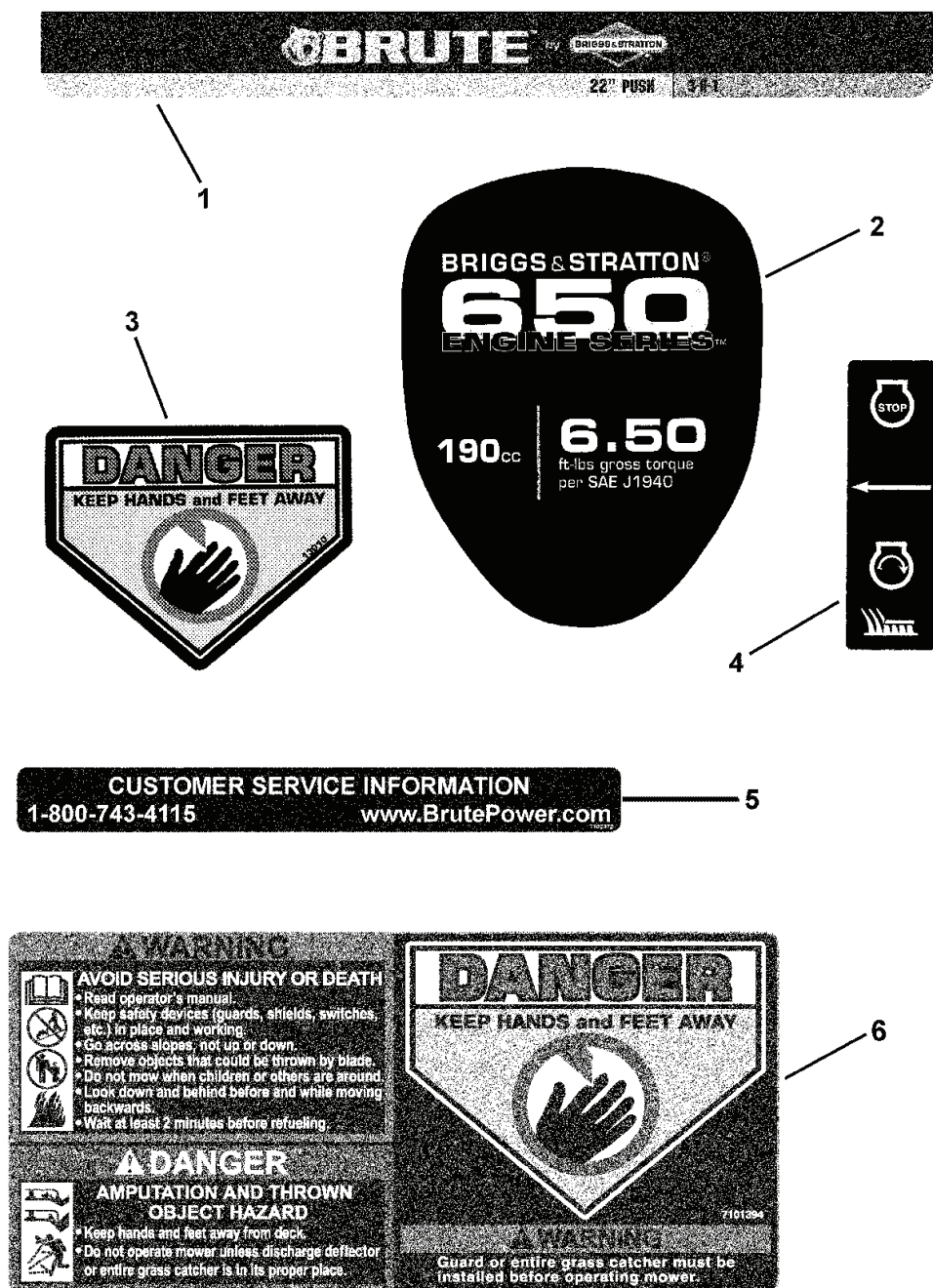
NOTE: * Purchase engine parts from engine manufacturer dealer.

The above parts group applies to the following Mfg. Nos.:

7800509 - BT22675HW

Decals

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

7800509 - BT22675HW

Decals

REF NO	PART NO.	QTY.	DESCRIPTION
1	7102958YP	1	DECAL, Deck Front Brute 22"
2	7101910MA	1	DECAL, Engine, TP, Brute 650
3	7013010SM	1	DECAL, Danger, Cut Finger
4	7029782MA	1	DECAL, OPC Bail, International Symbol
5	7102372YP	1	DECAL, Customer Service, Brute
6	7101394YP	1	DECAL, CPSC Warning, Rear Door

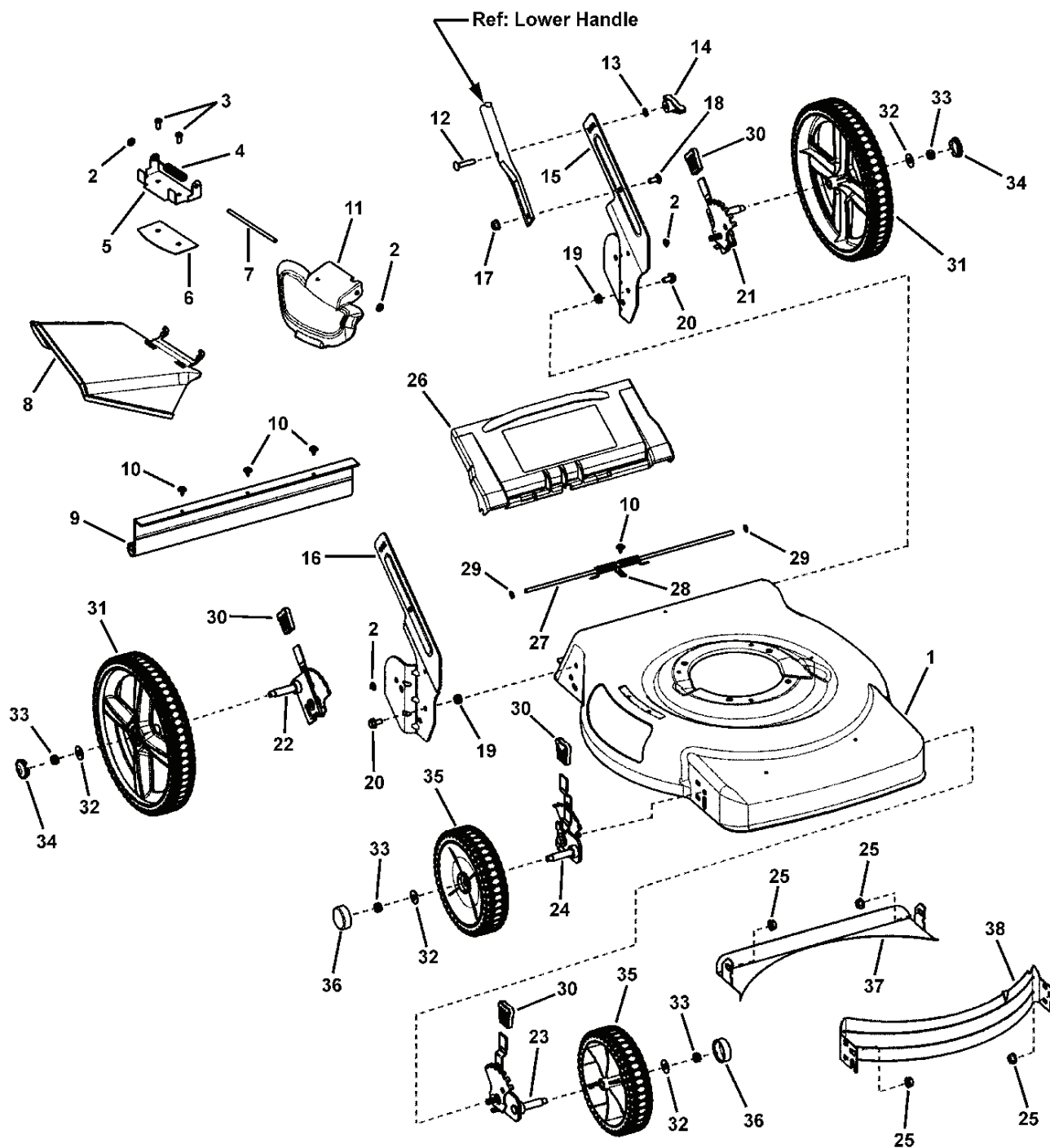
Footnotes

The above parts group applies to the following Mfg. Nos.:

7800509 - BT22675HW

Deck Assembly - Push, Hi-Wheel

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

7800509 - BT22675HW

Deck Assembly - Push, Hi-Wheel

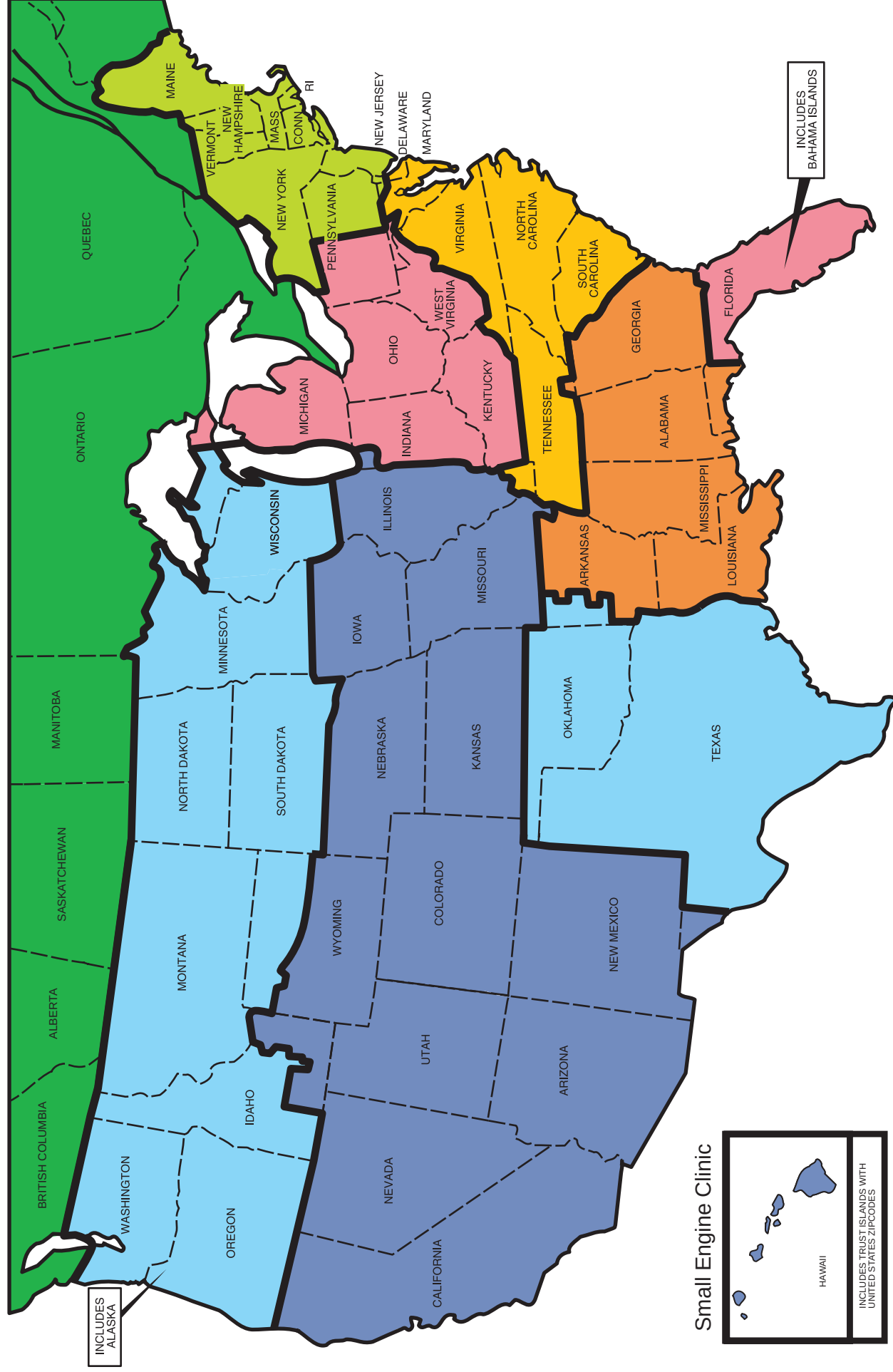
REF NO	PART NO.	QTY.	DESCRIPTION
1	7300401ZYP	1	DECK, 22" Walk, Push
2	7091020YP	4	PUSHNUT, 1/4"
3	7900067YP	3	SCREW, PHST, Torx, 1/4-20 X .550"
4	166X38MA	1	SPRING, Torsion, Chute
5	7300855ZMA	1	BRACKET, Chute
6	7300856ZMA	1	PLATE, Mulch 22 RB Scotts
7	215X19ZMA	1	ROD, Chute Pivot - 1/4 dia. x 5.55"
8	1101097MA	1	SIDE CHUTE, Plastic, Black
9	7102422YP	1	GUARD, Rear
10	7091286YP	4	SCREW, #10-24 x 1/2 Hex Washer Self-Tap - Sems
11	1101098MA	1	COVER, Mulch, Plastic, Black
12	7091714YP	2	BOLT, RHSN, 5/16-18 X 1 GR5 YZ
13	7090391SM	2	WASHER, Internal Tooth Lock, 5/16
14	071294MA	2	KNOB, 5/16-18 Wing Nut
15	7300583ZMA	1	BRACKET, Lower Handle, LH
16	7300582ZMA	1	BRACKET, Lower Handle, RH
17	7090951SM	2	NUT, HFL, 5/16-18 BZ
18	7091508SM	2	BOLT, RHSSN, 5/16-18 X 3/4 GR5 YZ
19	7091585SM	4	NUT, 3/8-16 Hex Center Lock YZ
20	7090606SM	2	BOLT, 5/16-18 x 5/8 Hex Flange Lock
21	7501055YP	1	ASSY, HOC, Left Rear, 9 Position
22	7501056YP	1	ASSY, HOC, Right Rear, 9 Position
23	7501294YP	1	ASSY, HOC, Left Front, 9 Position
24	7501293YP	1	ASSY, HOC, Right Front, 9 Position
25	7900053MA	4	NUT, 3/8-16, Hex Flange Lock, GR 5
26	7101243YP	1	DOOR, Rear Discharge, 22 Walk Mower
27	7101070YP	1	ROD, Pivot, Rear Door - 1/4 dia. x 17-1/2 YZ
28	7101461YP	1	SPRING, Torsion, Rear Door, 22 Walk Mower
29	028X49MA	2	RETAINER, Push On, 1/4"
30	7100633YP	4	GRIP, Height Latch
31	7101708MA	2	WHEEL, 12" X 2" Idle, W/DB TRD, Brute
32	17X169MA	4	WASHER, Flat, 1 O.D. x .382 I.D.
33	7090585MA	2	NUT, 5/16-18 Hex Flange Lock BZP
34	7101931MA	2	HUBCAP, 12" Wheel, Black
35	7101712MA	2	WHEEL, 8" X 2" Idle, W/DB TRD, Brute
36	7101351MA	4	HUBCAP, Round, Black
37	7300854ZMA	1	BAFFLE, Rear, 22" Deck
38	7300440ZMA	1	BAFFLE, Front, 22" Walk Mower

Footnotes

The above parts group applies to the following Mfg. Nos.:

7800509 - BT22675HW

IDN Network



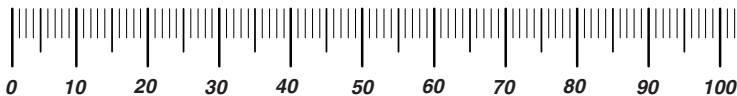
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Hardware Identification & Torque Specifications

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

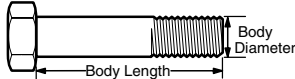
The guides and ruler furnished below are designed to help you select the appropriate hardware.



Nut, M8

Thread
Diameter (mm)
Inside
Diameter (in) Threads
per inch

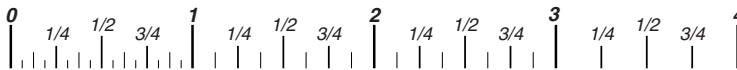
Nut, 1/2-16



Screw, M8- 1.25 x 25

Thread
Diameter (mm) Distance between
threads (mm) Body
Length (mm)
Body
Diameter Threads
per inch Body
Length (in)

Screw, 1/2- 16 x 2



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*, (1.25 thread diameter). 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

Hex Head Capscrew



Washer

Carriage Bolt



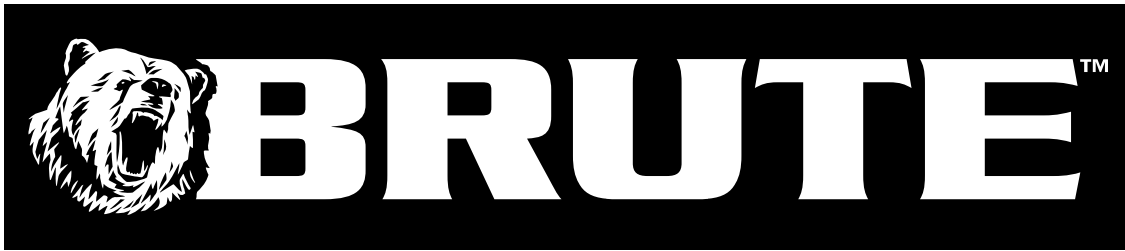
Lockwasher



Hex Nut

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—22 mm



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