Parts Manual

Mfg. No: 2691527-01

NX90V, 21" (53cm) Euro Self Propelled Mower NX Series

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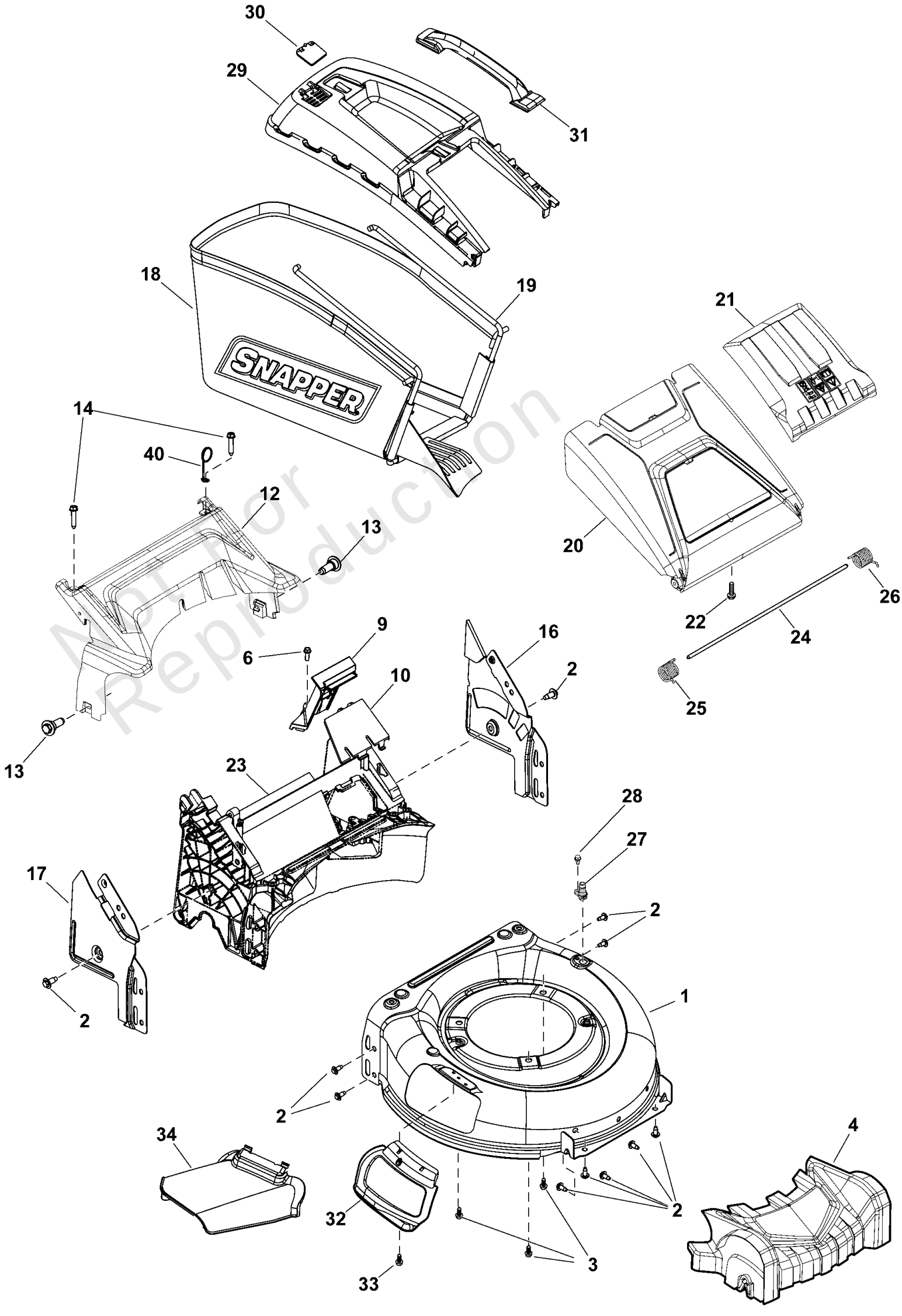
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Deck Group

Note: Unless noted otherwise, use the standard torque specifications

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Deck Group

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	DECK, NSP -(Not Serviceable)
2	704787	11	SCREW, Hex Head
3	707904	3	SCREW, Engine Mounting, 3/8-16 x 1
4	704975	1	FRONT COVER, Deck
6	7091081SM	1	SCREW, 1/4-15X3/4, Self-Tapping, BZ
9	704760	1	COVER, Rear
10	704759	1	COVER, Front
12	84002588	1	COVER, Rear
13	704787	2	SCREW, Hex Head
14	704789	2	SCREW, 1/4-15 x 1-1/4
16	704690	1	SUPPORT, Handle, LH
17	704689	1	SUPPORT, Handle, RH
18	704978	1	BAG
19	704979	1	FRAME
20	704980	1	REAR FLAP
21	704746	1	COVER, Gray
22	704786	2	SCREW #10-16 x 3/4
23	704810	1	GUIDE, Rear
24	704714	1	ROD
25	704735	1	TORSION SPRING, RH
26	704734	1	TORSION SPRING, LH
27	703502	1	NOZZLE, Wash
28	703714	1	SCREW, 1/4-20 x 1/2
29	704981	1	COVER, Bagger
30	703684	1	INDICATOR, Full Bag
31	704740	1	HANDLE
32	84002577	1	MULCHING FLAP
33	84002592	1	CAPSCREW, 1/4-20 X 1/2
34	704753	1	DEFLECTOR
36	84002594	1	LEVER, Adjustment -(Not Illustrated)
37	703490	1	KNOB, Adjustment Lever -(Not Illustrated)
38	84002593	1	CAPSCREW, 1/4-20 X 3/8 -(Not Illustrated)
40	704733	1	CABLE GUIDE

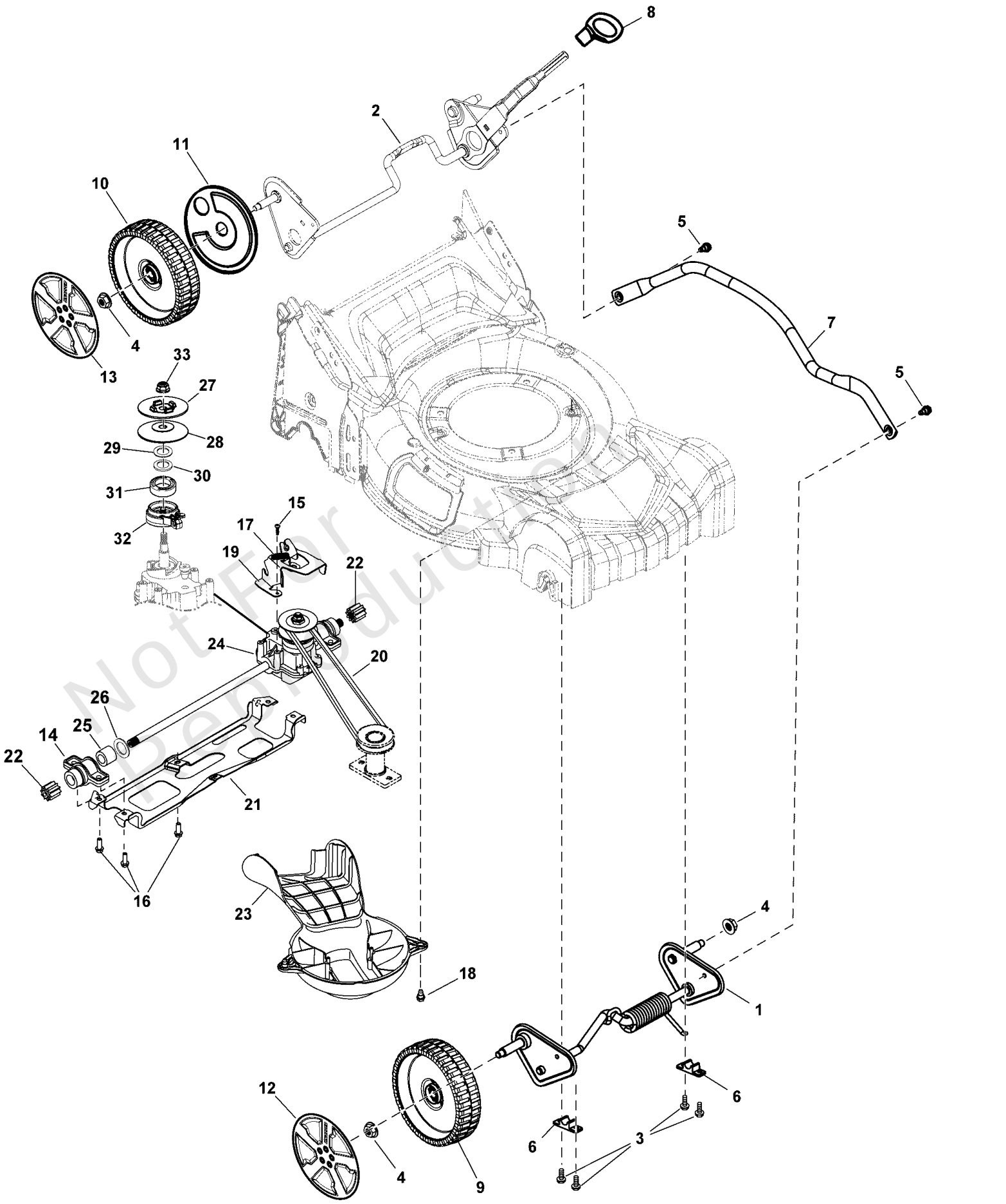
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Drive Group_a

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Transmission and 9T Gear Combinations

Until June 1, 2019
24A (Transmission, Shafts with a Splined Side) and
22A (Gear 9T Fitting with a Splined Side):

24A 22A

From June 2, 2019
24B (Transmission, Shafts with a Flat Side) and
22B (Gear 9T Fitting with a Flat Side):

24B 22B

Be Aware:
Item 24A Transmission is Obsolete.
When 24A is Ordered, Item 24B will be Supplied and
Qty. 2 of item 22B may also need to be ordered.

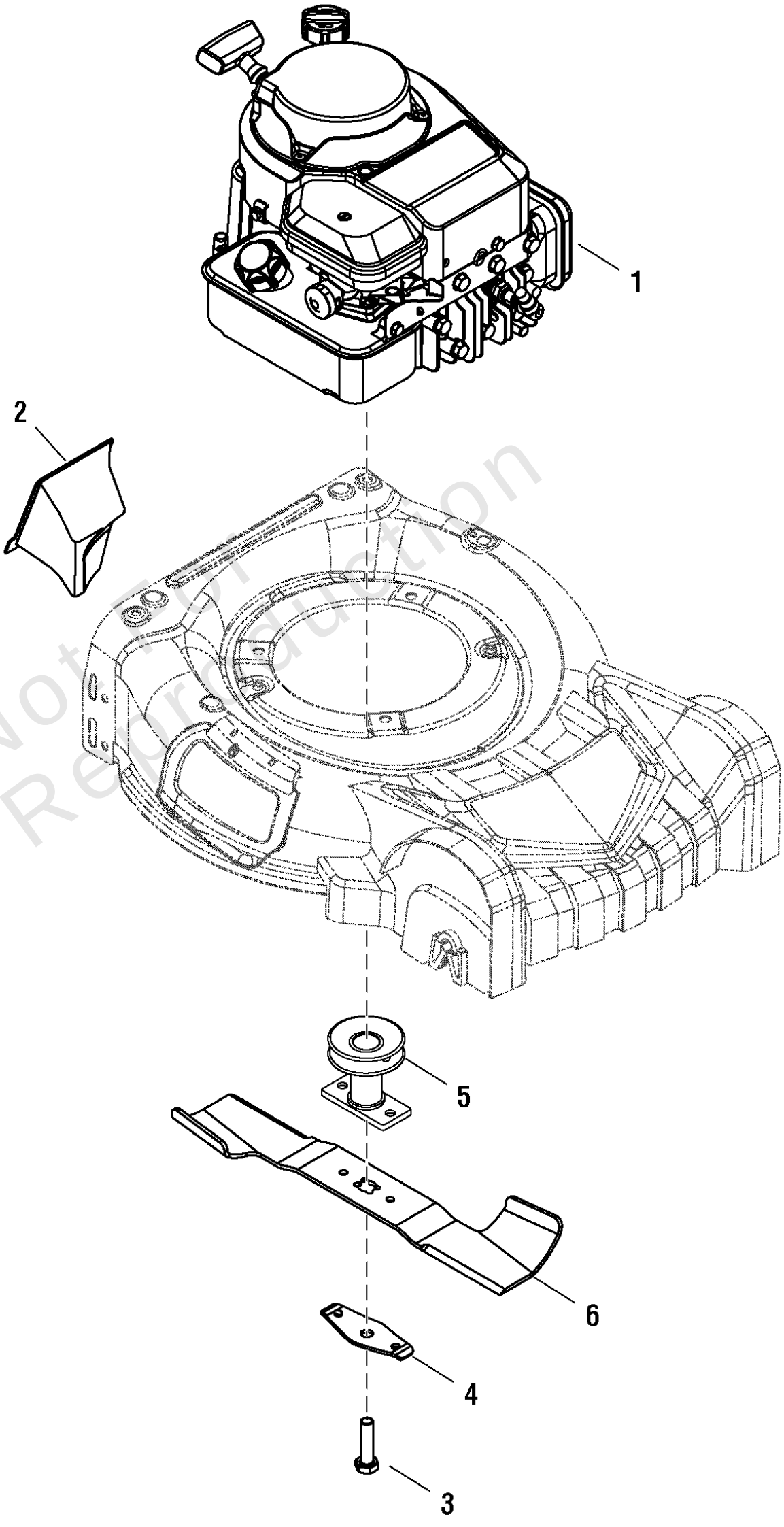
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Drive Group_a

REF NO	PART NO	QTY	DESCRIPTION
1	704819	1	AXLE, Front
2	704818	1	AXLE, Rear
3	7091081SM	4	SCREW, 1/4-15X3/4, Self-Tapping, BZ
4	5025394SM	4	NUT, Hex Flange, Nylock, 3/8-16
5	703714	2	SCREW, 1/4-20 x 1/2
6	703524	2	BUSHING, Lock
7	704707	1	TUBE
8	704780	1	KNOB, Red
8	703648	1	KNOB, Black
9	704977	2	WHEEL, 200 x 49
10	704807	2	WHEEL, Drive
11	703503	2	DUST COVER, Wheel
12	704751	2	HUBCAP, Front
13	704750	2	HUBCAP, Rear
14	703469	2	BEARING ASSEMBLY
15	703479	2	SCREW, Hex Washer Head, .159 x .43
16	7900023SM	5	SCREW, 1/4-15 x 1-1/4
17	703516	1	SPRING
18	703714	2	SCREW, 1/4-20 x 1/2
19	704694	1	BRACKET
20	706886	1	BELT
21	703542	1	SUPPORT
22A	704782	2	GEAR, 9 Tooth -(Old Spline Version)
22B	700148	2	GEAR, 9 Tooth -(New Version with a Flat)
23	704814	1	COVER, Rear
24A	-----	1	TRANSMISSION -(Old Spline Version No Longer Available)
24B	706870	1	TRANSMISSION -(New Version with a Flat on Shaft End, Requires Qty. 2 of Spur Gear with a Flat. Can Not be used with Old Spline Version Spur Gear.)
25	770699	1	SPACER
26	706888	1	WASHER
27	704697	1	PULLEY HALF, Upper
28	704696	1	PULLEY HALF, Lower
29	704730	1	SHIM, 20
30	704731	1	SHIM, 10
31	704728	1	BEARING
32	704772	1	CAM PULLEY, Speed
33	704783	1	NUT, Lock

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Engine & Blade Group

REF NO	PART NO	QTY	DESCRIPTION
1	122S02-0007-H5		*ENGINE, Briggs & Stratton, Mod. 122S02-0007-H5 -(Not Serviceable)
2	704765	1	MULCH PLUG
3	704785	1	SCREW Hex, 3/8-24 x 1-1/2
4	703520	1	SUPPORT, Blade Bell
5	84002584	1	BLADE ADAPTER
6	704725	1	BLADE

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Footnotes:

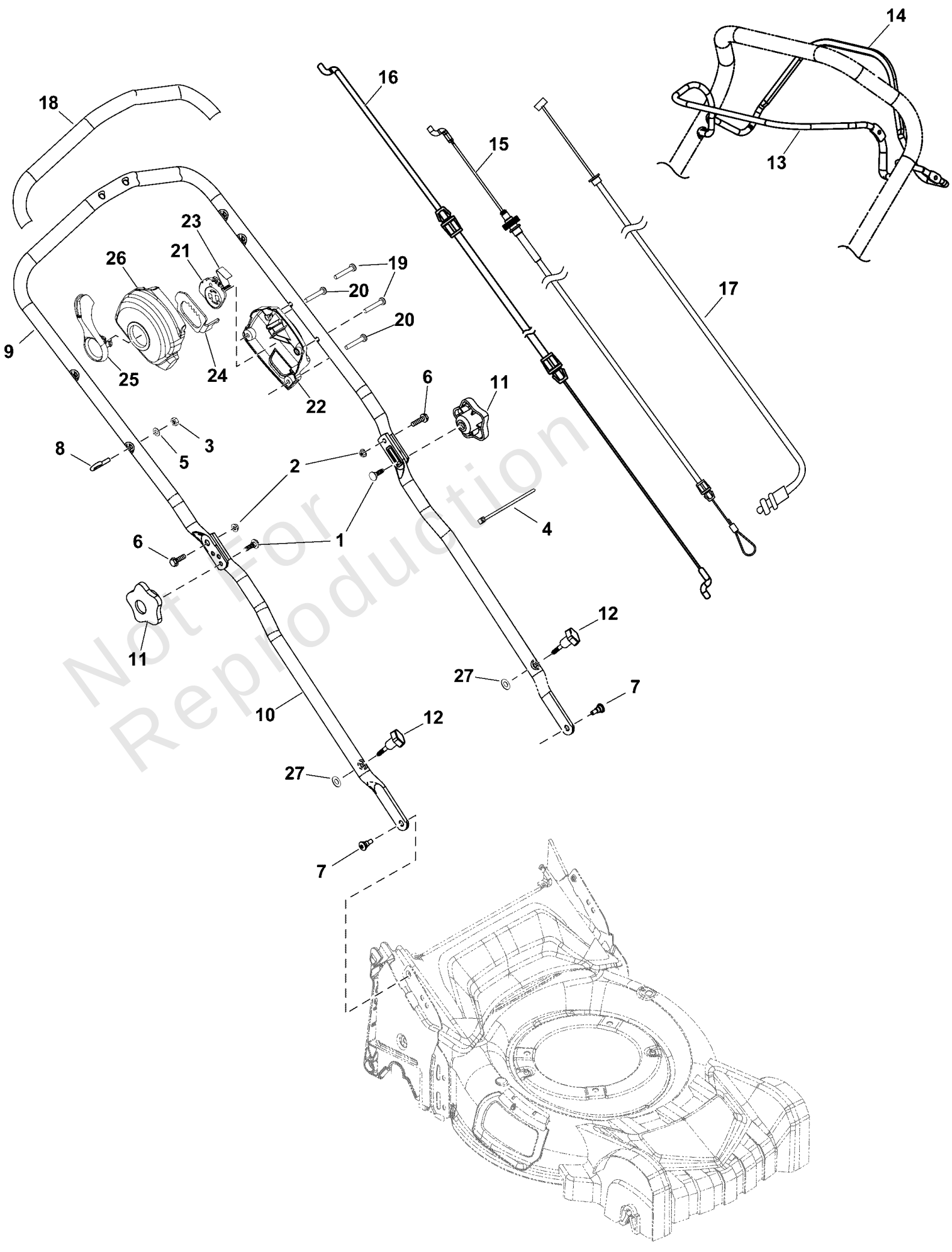
Note* To verify your specific engine model, please reference the ID Tag located on your engine. See your local Briggs & Stratton distributor for parts and service.

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Handle Group

Note: Unless noted otherwise, use the standard torque specifications

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Handle Group

REF NO	PART NO	QTY	DESCRIPTION
1	703483	2	BOLT, 5/16-18 x 1 G5
2	703463	2	NUT, Flange Nylock , 1/4-20
3	67885GS	1	NUT, Nylock, M6-1.0
4	704774	2	CABLE CLIP
5	703781	1	WASHER, A6.4
6	703522	2	SCREW, 1/4-20
7	704729	2	BOLT, Shoulder
8	704695	1	BOLT, Eye
9	704706	1	HANDLE, Upper
10	704712	1	HANDLE, Lower
11	704777	2	WING KNOB, 5/16-18
12	84002581	2	WING KNOB
13	84002575	1	BAIL, Control, Red
14	704718	1	BAIL, Drive
15	704719	1	CABLE, Drive
16	704721	1	CABLE, Control
17	704724	1	CABLE, Speed Select
18	704778	1	GRIP
19	704790	2	SCREW, 184-15 x 1-1/2
20	704788	2	SCREW, 184-15 x 3/4
21	704773	1	SPEED ACTUATOR
22	704771	1	HOUSING, Lower
23	704736	1	SHIFT SPRING
24	704693	1	RACK PLATE
25	704770	1	LEVER, Speed Select
26	704811	1	HOUSING, Upper
27	84002599	2	WASHER, 1/4 x 17/32

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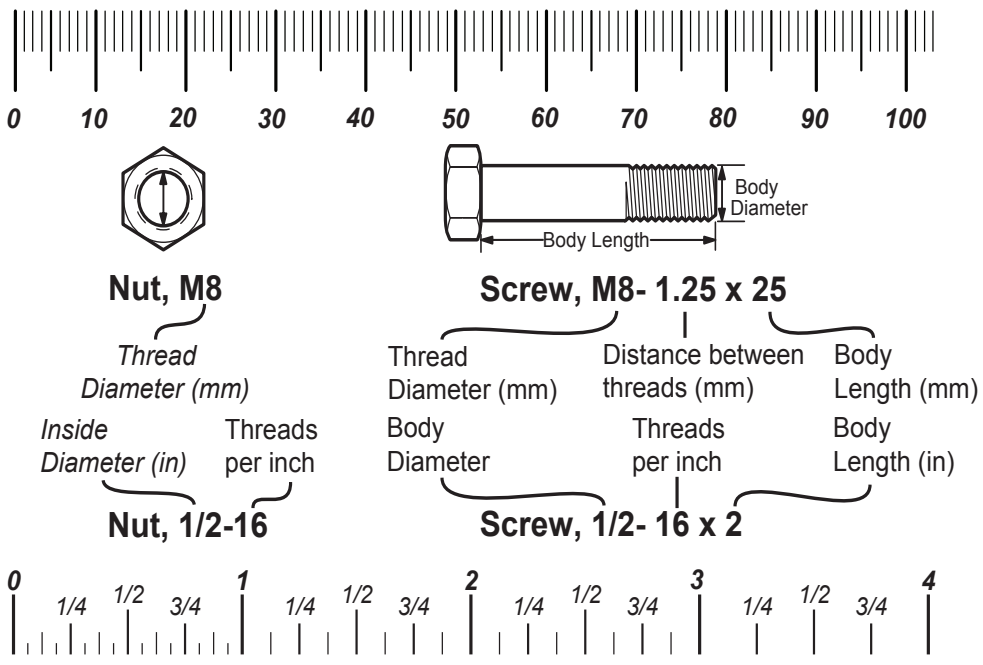
Hardware Identification & Torque Specifications

Torque Specification Chart

FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)

Property Class	5.6 Class 5.6		8.8 Class 8.8		10.9 Class 10.9		12.9 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

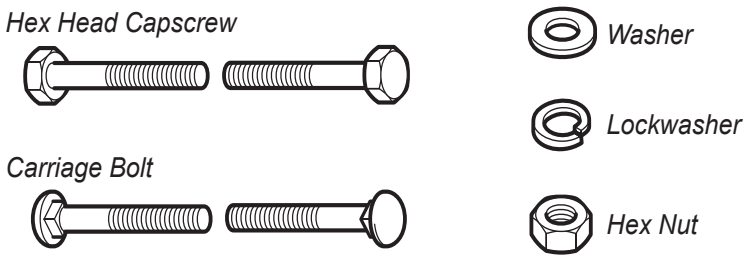
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

Hardware Grade	No Marks 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

1. 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.
2. Recommended seating torque values for locknuts:
   a. for prevailing torque locknuts - use 65% of grade 5 torques.
   b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. 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—22 mm

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