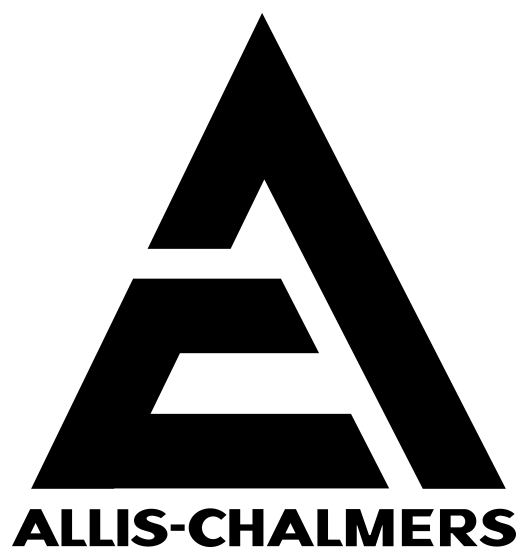




Parts Manual

Mfg. No: 1690867
611, LTD 11HP Gear and 36" Mower Deck

1690838 - 36" Mower Deck.....	
1690865 - 611, LTD 11HP Gear.....	

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Reproduction

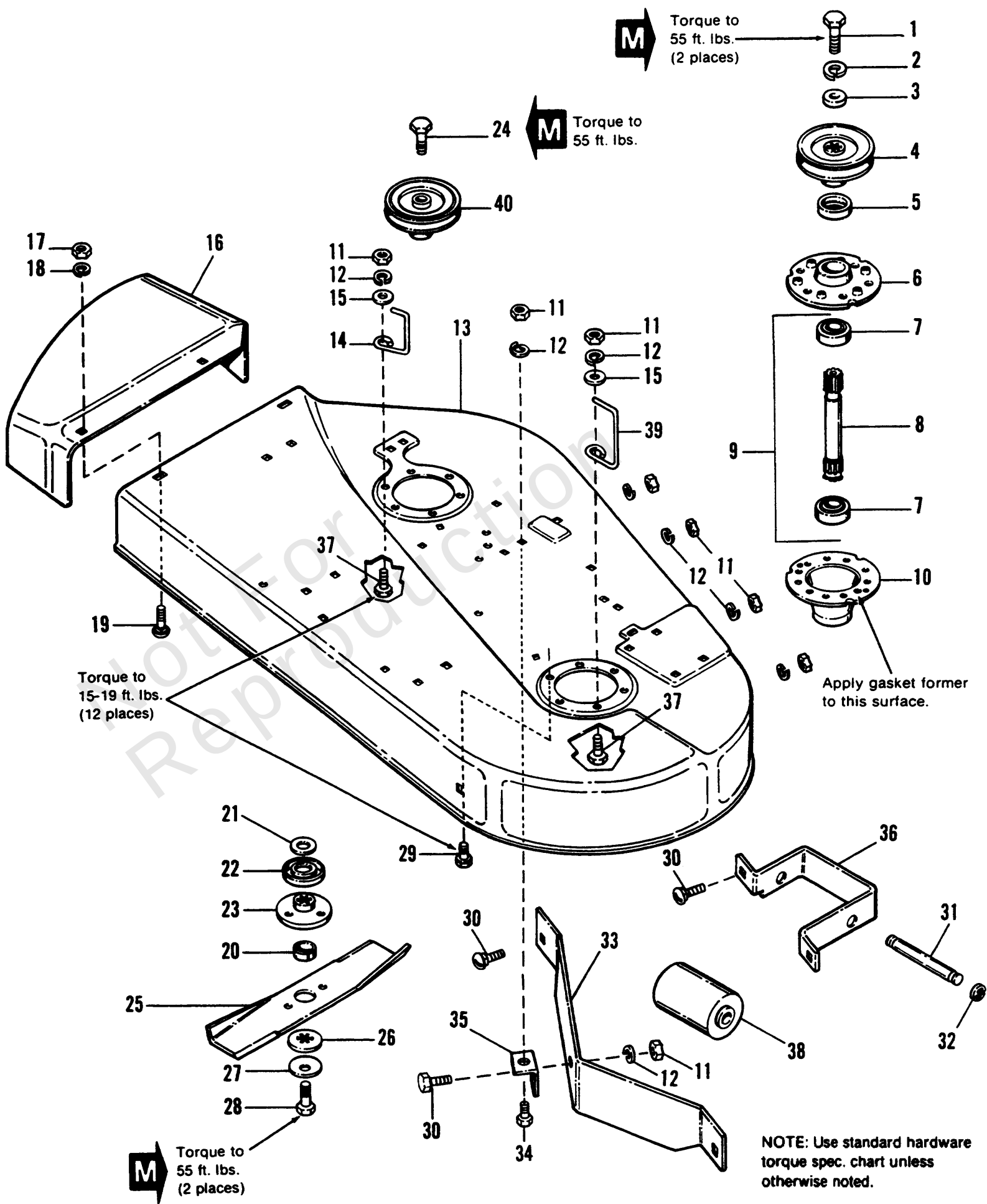
Model Components	Page
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36" Mower Deck & Arbor Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1690867



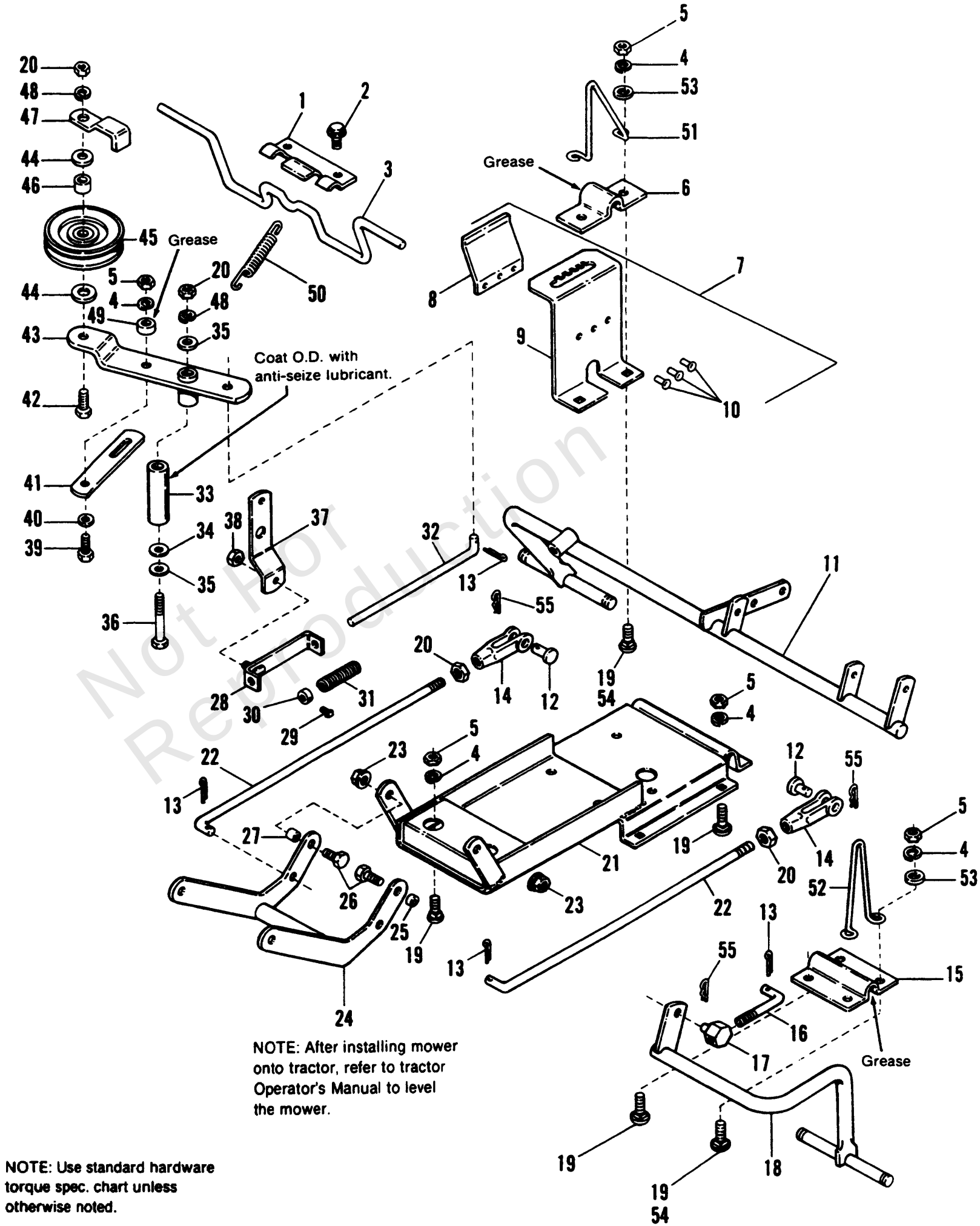
36" Mower Deck & Arbor Group

REF NO	PART NO	QTY	DESCRIPTION
1	2830585	2	CAPSCREW, Hex Hd., 7/16-14 x 3-1/2 -Used on serial no. 2332 and higher
1	2826110	2	CAPSCREW Hex Hd., 7/16-14 x 2-3/4 -Used on serial no. 2331 and lower.
2	2818199	2	LOCKWASHER, 7/16
3	1933263SM	2	WASHER, 29/64 x 1-1/4 x 1/4
4	1673109ASM	1	PULLEY ASSY. -Used on serial no. 2332 and higher
4	1655839SM	1	PULLEY ASSY. -Used on serial no. 2331 and lower.
5	1657969SM	2	SHIELD, Bearing Upper, Arbor
6	1655729ASM	2	HOUSING-ARBOR TOP - B
7	2108202SM	4	BEARING, BALL
8	1685245SM	2	SHAFT, Arbor (Incl. Ref. No. 20)
9	1685251SM	2	SHAFT & BEARING ASSY. (Incl. Ref. Nos. 7, 8, 20)
10	1655728A	2	HOUSING, Bottom
11	1917372SM	8	NUT, Hex, Full, 5/16-18
12	1917356SM	8	LOCKWASHER, 5/16
13	1685102SM	1	HOUSING, 36"
14	1657660SM	1	STOP, Belt
15	2817642	2	WASHER, 5/16
16	1702190SM	1	DEFLECTOR, Mower
17	2816950SM	2	NUT, Hex, Full, 3/8-16
18	1916965SM	2	LOCKWASHER, 3/8
19	2822110	2	BOLT, Carriage, 3/8-16 x 3/4
20	1672132SM	2	COLLAR, Arbor
21	1700230SM	2	WASHER, Shim
22	1700229SM	2	SHIELD, Grass
23	1655777SM	2	ADAPTOR, Blade
24	2830584SM	1	CAPSCREW, Hex Hd., 7/16-14 x 2-3/4
25	1657589ASM	2	BLADE, 36"
26	1656927SM	2	WASHER, Spline
27	1656916SM	2	WASHER, SPRING 0.475I
28	2823491	2	CAPSCREW, Hex Hd., 7/16-14 x 1
29	1664847SM	11	SCREW, Hex, Wash Hd., Taptite, 5/16-18 x 3/4
30	2820562	4	BOLT, Carriage, 5/16-18 x 3/4
31	1603205SM	1	SHAFT, Roller Center
32	2827793SM	1	E-RING
33	1671577SM	1	BAFFLE
34	2821332	2	CAPSCREW, Hex Hd., 5/16-18 x 3/4
35	1668500A	1	BRACKET, Mower
36	1705953SM	1	BRACKET, Center, Roller
37	2827477	2	SCREW, Hex Hd., Taptite, 5/16-18 x 1
38	1668513SM	1	ROLLER, .652 ID, 2.50 OD, 4.10 LG
39	1673106SM	1	STOP, Belt -Not used on serial no. 2331 and lower.
40	1655839SM	1	PULLEY ASSY.

36" Clutch & Roller Support Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1690867



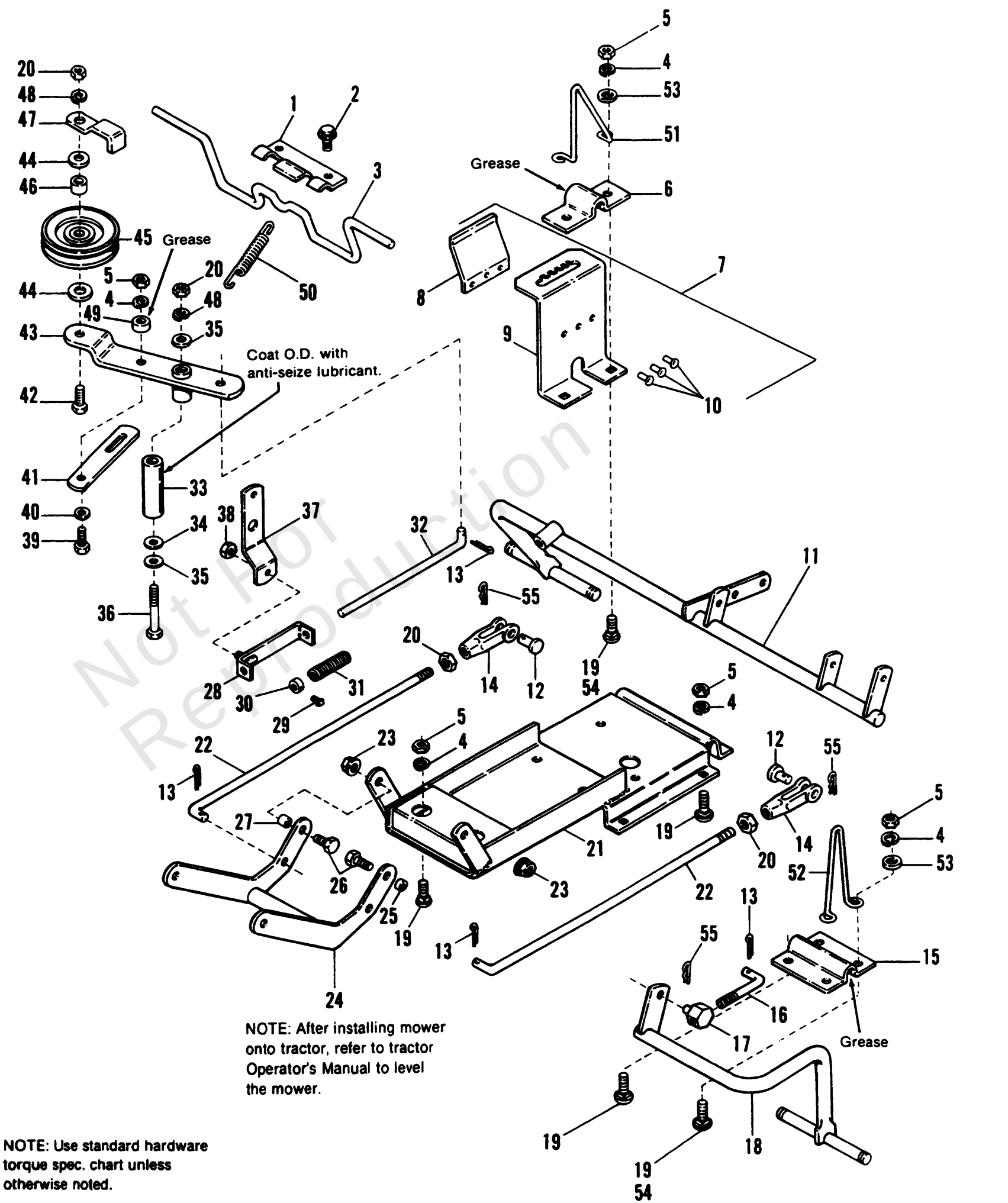
36" Clutch & Roller Support Group

REF NO	PART NO	QTY	DESCRIPTION
1	1655507	1	SUPPORT, Brake
2	2827428	2	SCREW, Hex, Wash. Hd., Taptite, 1/4-20 x 3/8
3	1673110SM	1	ROD ASSY., Brake -Used on serial no. 2332 and higher.
3	1655425SM	1	ROD ASSY., Brake -Used on serial no. 2331 and lower.
4	1917356SM	15	LOCKWASHER, 5/16
5	1917372SM	15	NUT, Hex, Full, 5/16-18
6	1654655	1	STRAP
7	1663223SM	1	QUADRANT ASSY. (Includes Ref. No's. 8, 9 & 10)
8	1663222SM	1	SPRING, Flat
9	1663223SM	1	QUADRANT
10	2810542SM	3	RIVET, Tubular, 3/16 x 5/16
11	1668099ASM	1	SUPPORT ASSY., Roller, R.H.
12	2823087	2	PIN, Clevis
13	2818447	7	PIN, Cotter, 3/32 x 3/4
14	2108157SM	2	CLEVIS, Adjusting
15	1653768ASM	1	CLAMP, Adjusting
16	1655811SM	1	ROD, Bolt
17	2108512SM	1	PIVOT
18	1668098SM	1	SUPPORT ASSY., Roller, L.H.
19	2820562	8	BOLT, Carriage, 5/16-18 x 3/4
20	2816950SM	4	NUT, Hex, Full, 3/8-16
21	1702341	1	SUPPORT ASSY., Mower
22	1702502SM	2	ROD, Height Adjustment
23	2830645	2	LOCKNUT, Hex, Flange, 3/8-16
24	1674011ASM	1	ARM ASSY., Rocker
25	2118335SM	1	SPACER
26	1920415SM	2	CAPSCREW, Hex Hd., 3/8-16 x 1
27	2154177SM	1	SPACER
28	2108662SM	1	GUIDE ASSY., Rod
29	2828804	1	SETSCREW, 1/4-20 x 3/8
30	1729276SM	1	COLLAR, Set
31	2163103SM	1	SPRING
32	2171320SM	1	ROD, Clutch
33	1657242SM	1	SPACER
34	2824356	1	WASHER
35	1924940SM	2	WASHER, Plain, 3/8
36	1928957SM	1	CAPSCREW, Hex Hd., 3/8-16 x 2-3/4
37	1656991ASM	1	ARM, Pivot
38	2823362	1	LOCKNUT, Hex, 5/16-18
39	2821333	1	CAPSCREW, Hex Hd., 3/8-16 x 2-3/4
40	2817377	1	WASHER, Plain, 1/4
41	1701563SM	1	LEVER, Brake
42	2821971	1	CAPSCREW, Hex Hd., 3/8-16 x 1-3/4
43	1677750SM	1	LEVER ASSY., Clutch
44	2822755	2	WASHER, Plain
45	1685150SM	1	PULLEY ASSY.
46	1666294SM	1	SPACER
47	2106717	1	GUIDE, Belt
48	1916965SM	2	LOCKWASHER, 3/8
49	2165034SM	1	SPACER

36" Clutch & Roller Support Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1690867



36" Clutch & Roller Support Group

REF NO	PART NO	QTY	DESCRIPTION
50	2159159SM	1	SPRING
51	1669232SM	1	UP-STOP, R.H.
52	1669233SM	1	UP-STOP, L.H.
53	2817642	4	WASHER, Plain, 5/16
54	2820564	6	BOLT, Carriage, 5/16-18 x 1-1/4
55	2106787	3	CLIP, Hair Pin

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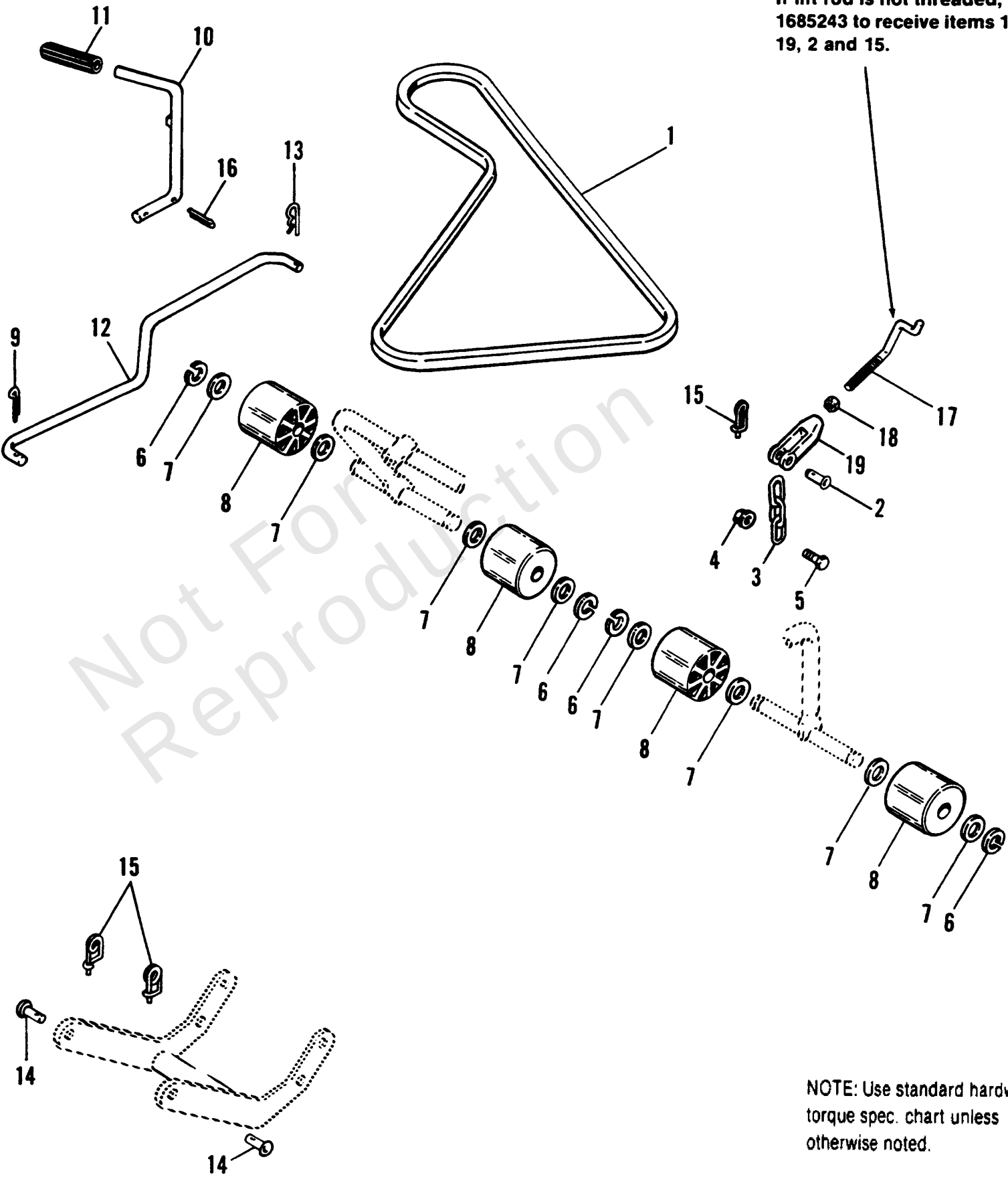
36" Roller & Misc. Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1690867

NOTE

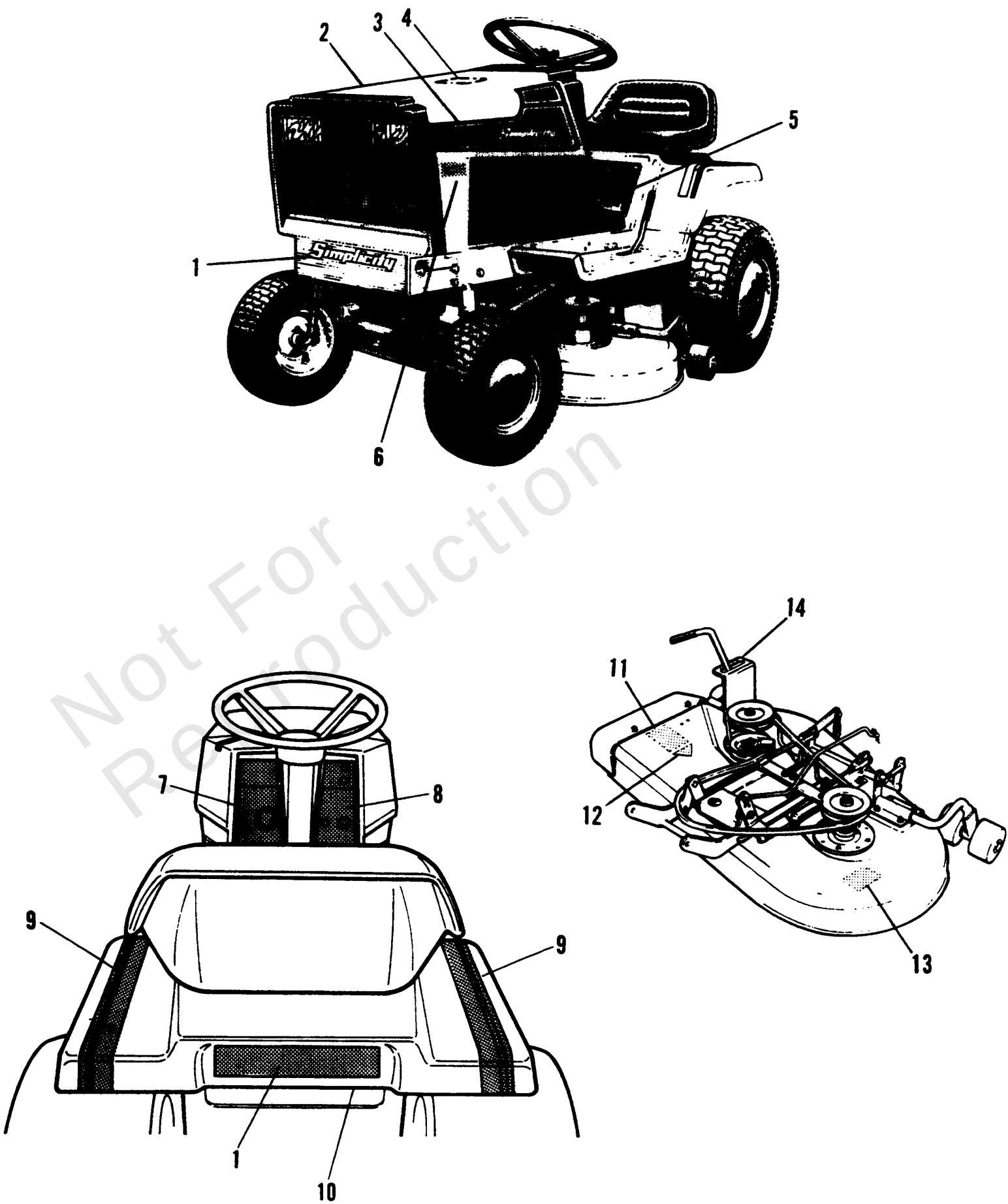
If lift rod is not threaded, order 1685243 to receive items 17, 18, 19, 2 and 15.



NOTE: Use standard hardware torque spec. chart unless otherwise noted.

36" Roller & Misc. Group

REF NO	PART NO	QTY	DESCRIPTION
1	2108505	1	V-BELT, Mower Drive
2	1655651SM	1	PIN, Rivet
3	1656835A	1	CHAIN, Lift
4	2835048	1	LOCKNUT, Hex, Flange, 5/16-18
5	2821333	1	CAPSCREW, Hex Hd., 5/16-18 x 1
6	2153124SM	4	RING, Retaining
7	2819387	8	WASHER, Plain, 5/8
8	1668487SM	4	ROLLER
9	2818448	1	PIN, Cotter, 3/32 x 1
10	1656412SM	1	LEVER, Control
11	2176933SM	1	GRIP, Handle
12	1668744SM	1	ROD, P.T.O.
13	2106787	1	CLIP, Spring
14	2156306SM	2	PIN-RND HD DRILLED .3
15	2176012SM	3	CLIP, Pin, Safety
16	2818452	2	PIN, Cotter, 1/8 x 1
17	1685243SM	1	ROD, Lift
18	2820161	1	NUT, Jam, 5/16-18
19	1673575SM	1	CLEVIS



Decal Group

REF NO	PART NO	QTY	DESCRIPTION
1	2153166	2	DECAL, Simplicity
2	1671716	1	DECAL, Hood, R.H.
3	1671717	1	DECAL, Hood, L.H.
4	1666678	1	DECAL, Drive Belt
5	1708277	1	DECAL, Shift Pattern
6	1666716	2	DECAL, 4208 Electric
6	1666715	2	DECAL, 4211 Electric
7	1673431	1	DECAL, Dash, L.H. Side
8	1673430	1	DECAL, Dash, R.H. Side (1690840, 1690843 only)
8	1675184	1	DECAL, Dash, R.H. Side (1690909 only)
9	1657131	2	DECAL, Seat Deck
10	1670969	1	DECAL, Battery, Simplicity
11	1704277SM	1	DECAL, Warning
12	-----	1	DECAL, OPEI
13	1704276SM	1	DECAL-DANGER DO NOT P
14	1656855	1	DECAL, Mower Height

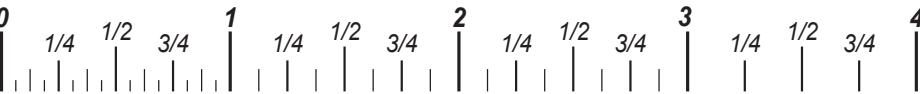
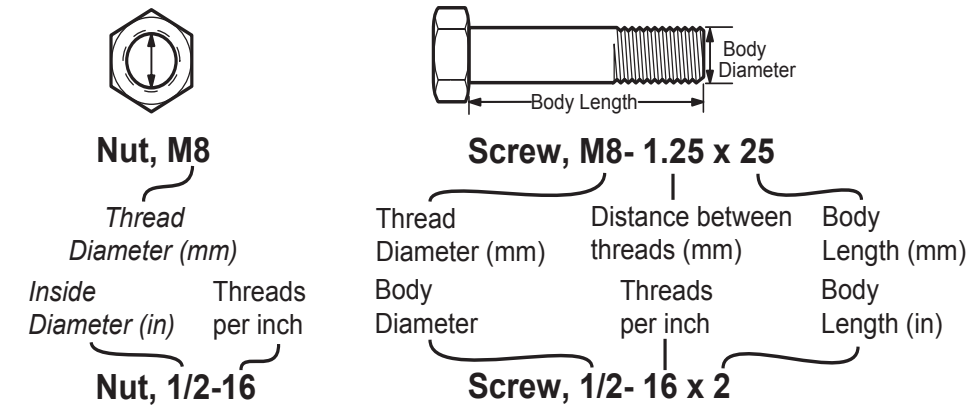
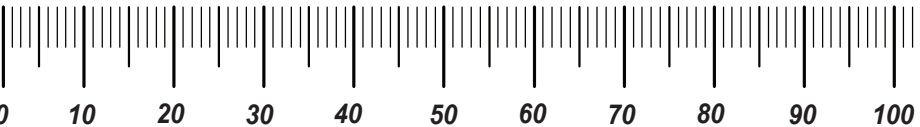
Footnotes:

Note:* Not a servicable part.

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).

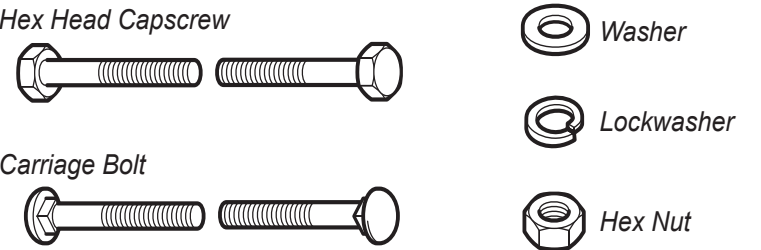
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw, 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

