



Parts Manual

Mfg. No: 1694241
860DLXE, 8HP 24" Snowthrower

1690385 - 8 - 11HP Electric Starter Tecumseh.....	
1686665 - Headlight Kit.....	
1693661 - Universal Soft Side Snow Cab.....	
1685189 - Drift Cutters, 16".....	
1686704 - Drift Cutters 20", Heavy Weight.....	
1692921 - Counter Weight.....	

Not For
Reproduction

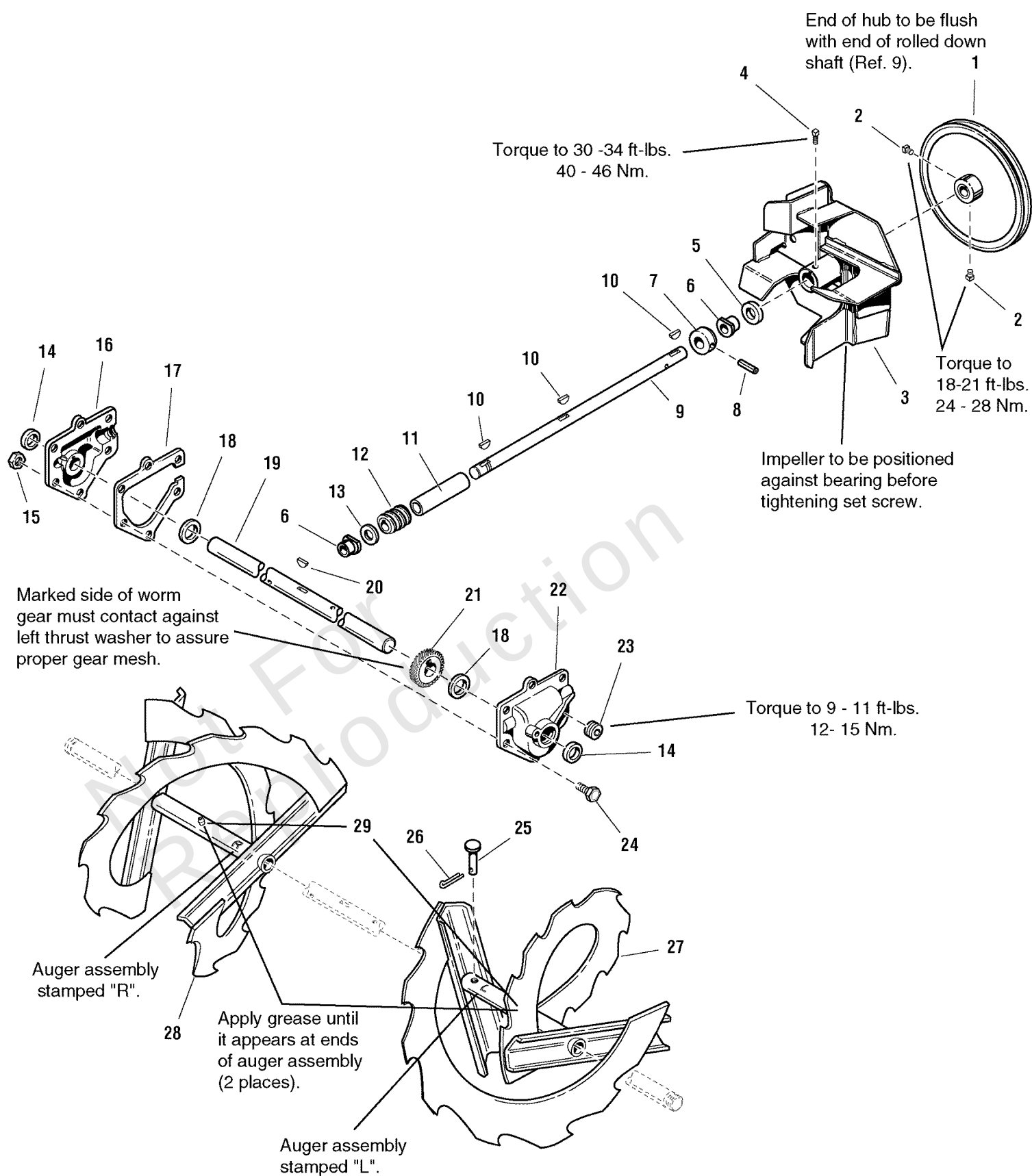
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Auger and Impeller Group

Note: Unless noted otherwise, use the standard torque specifications

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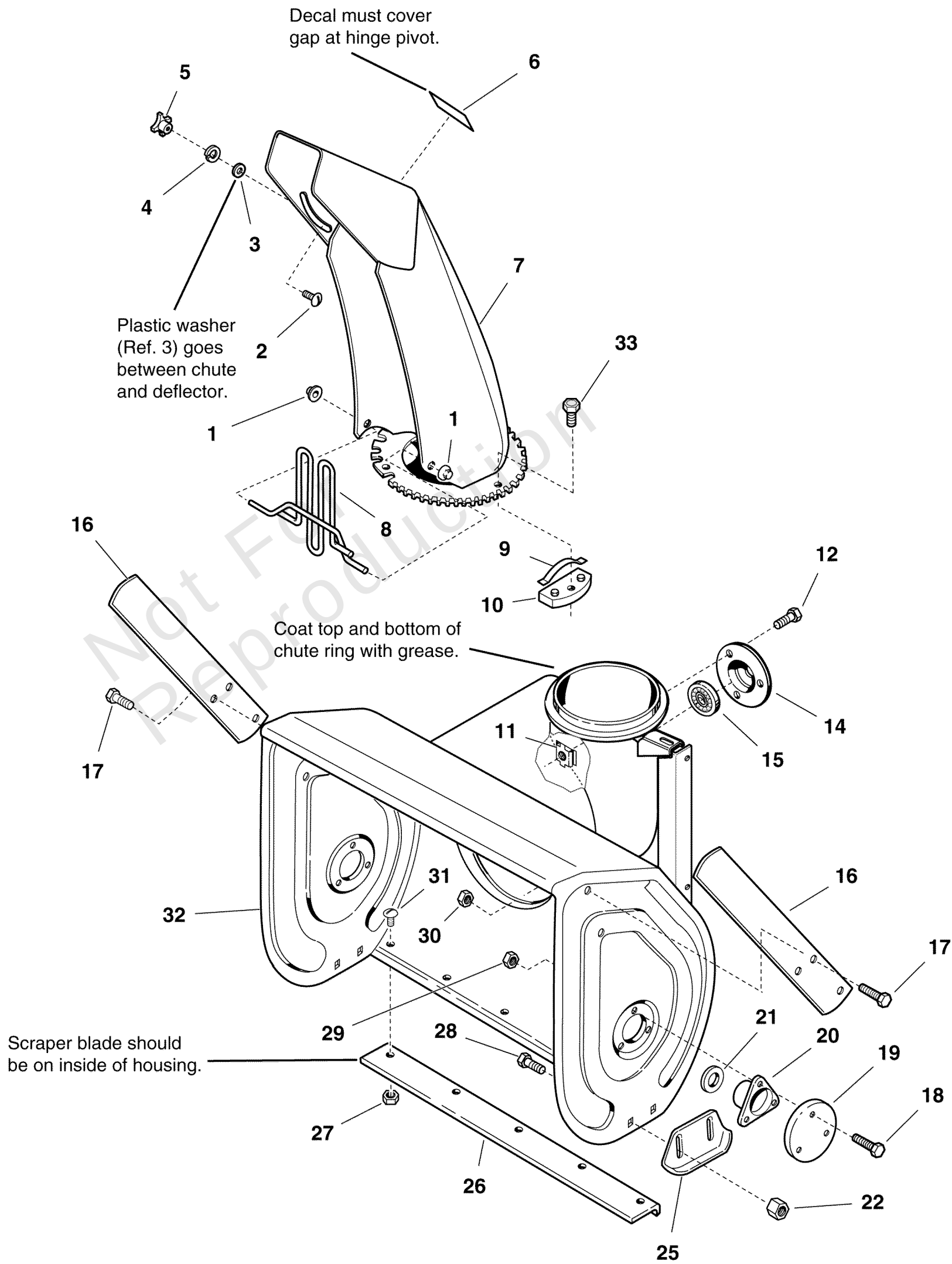
Auger and Impeller Group

REF NO	PART NO	QTY	DESCRIPTION
1	1679293SM	1	PULLEY, w/Hub
2	1928721SM	2	SCREW, Set Square Head Cup Point, 5/16-18 x 1/2 G8
3	1612187ASM	1	IMPELLER ASSEMBLY
4	1960474SM	1	SCREW, Set Square Head Cup Point, 3/8-16 x 1/2 G8
5	1612093SM	1	SEAL, Oil 1/4" Thick
6	1612149SM	2	BUSHING, 377/500 ID x 1-1/10 OD x 1-1/100 LG Powderdered Metal
7	1612127SM	1	COLLAR, Thrust 3/4 LG
8	2836098SM	1	PIN, Drive Lock Type A 3/16 x 1-1/2
9	1612129SM	1	SHAFT, Worm 18-1/10 LG
10	2818312SM	3	KEY, Woodruff, 47/250 x 5/8
11	1612111SM	1	TUBE, 9/10 OD 39/50 ID, 7-1/2 LG
12	1612142SM	1	GEAR-WORM
13	2168111SM	1	WASHER, Thrust
14	2118118SM	2	SEAL, Oil, 1/4" Thick
15	1923358SM	6	LOCKNUT, Hex, 1/4-20 -Qauntity 8 used on 38 in. Models
16	1612137SM	1	CASE, Gear R.H.
17	1612124SM	1	GASKET, Gear Case
18	2118315SM	2	WASHER, Thrust
19	1731916SM	1	SHAFT, 16 LG Auger 3 Holes
20	2830246SM	1	KEY, Woodruff 1/4 x 3/4
21	1612141SM	1	GEAR, Worm 7/8 LG
22	1612136SM	1	CASE, Gear L.H.
23	1668971SM	1	PLUG, Pipe, Tapered, 1/8 -Used on 38 in. Models
24	1960346SM	4	CAPSCREW-HEX -Quantity 4 used on 38 in. Models
25	1668344SM	2	PIN, Flat Head Drilled
26	1918447SM	2	PIN, Cotter 47/50 x 3/4
27	1718782ASM	1	AUGER ASSEMBLY, L.H. 9-1/2 LG -Used on 24 in. Models
27	1718784ASM	1	AUGER ASSEMBLY, L.H. 11-1/2 LG -Used on 28 in. Models
27	1718786ASM	1	AUGER ASSEMBLY, L.H. 13-1/2 LG -Used on 32 in. Models
28	1718783ASM	1	AUGER ASSY - RH -Used on 24 in. Models
28	1718785ASM	1	AUGER ASSEMBLY, R.H. 11-1/2 LG -Used on 28 in. Models
28	1718787ASM	1	AUGER ASSEMBLY, R.H. 13-1/2 LG -Used on 32 in. Models
29	2821133SM	2	FITTING, Lube 1/4 Drive, No Check Ball
30	1923282SM	2	CAPSCREW, Hex Head, 1/4-20 x 2-1/2 G5

Auger Housing and Chute Group - 24"

Note: Unless noted otherwise, use the standard torque specifications

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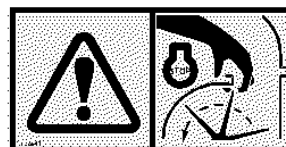
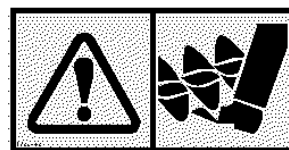
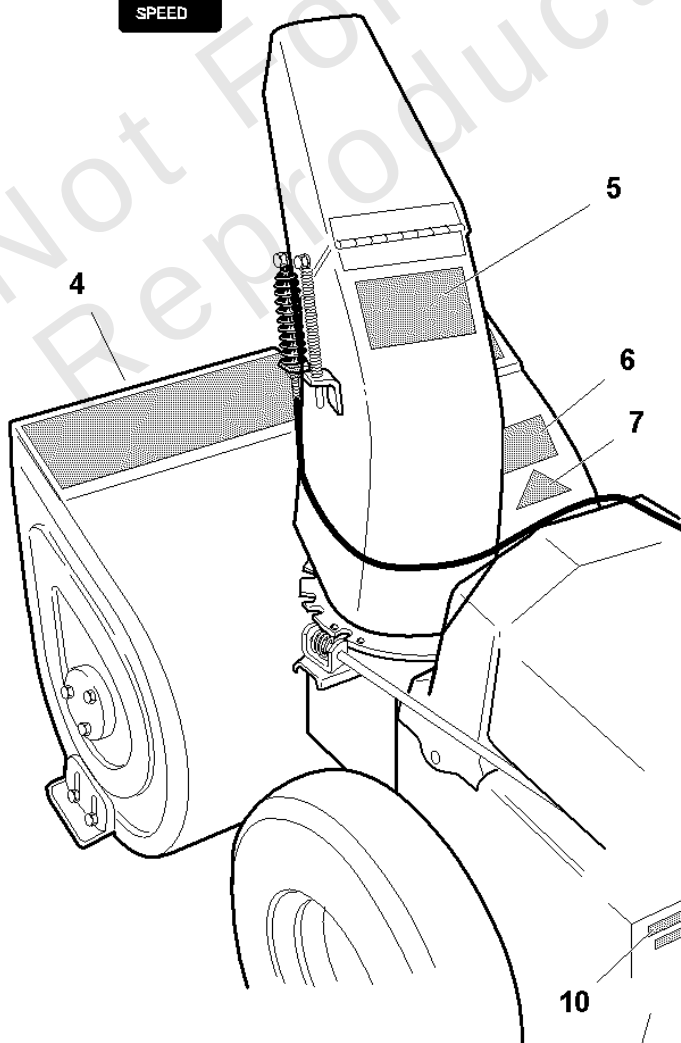
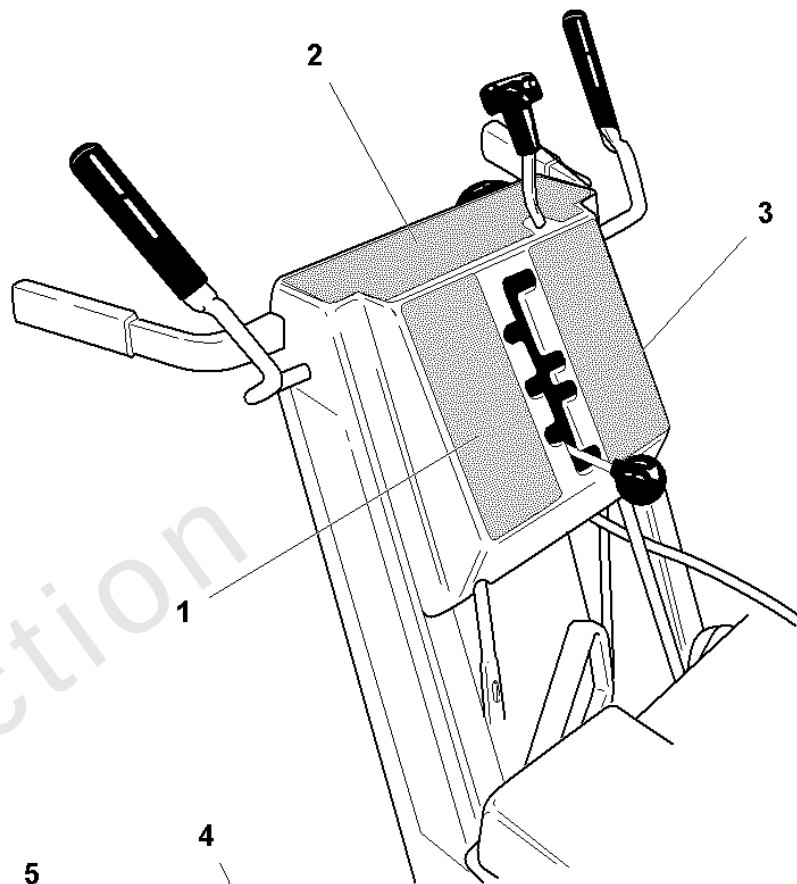
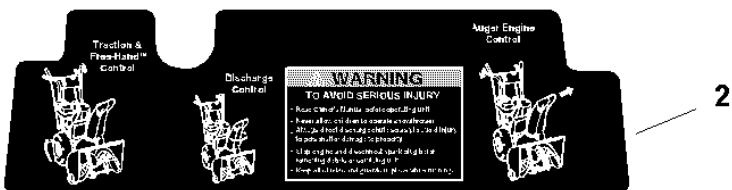
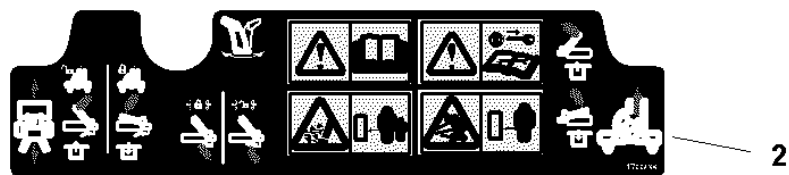
Auger Housing and Chute Group - 24"

REF NO	PART NO	QTY	DESCRIPTION
1	1960126SM	2	PUSH NUT, 1/4
2	1931333SM	1	CARRIAGE BOLT, 5/16-18 x 3/4
3	2860210SM	1	WASHER, Nylon
4	1919326SM	1	WASHER, 5/16
5	1670578SM	1	KNOB-INT THR .312-18
6	1706085SM	2	SEAL, Hinge Decal
7	1704161CSM	1	CHUTE & DEFLECTOR ASSEMBLY
8	1612455SM	1	GUARD & SUPPORT ASSEMBLY, Chute
9	1667865SM	3	SPRING
10	1666613SM	3	HOLD DOWN, Chute, Black Nylon
11	1930659SM	3	NUT, Retainer, 5/16-18
12	1925205SM	3	CAPSCREW, Hex Head, 5/16-18 x 17/64
14	1665982ASM	1	RETAINER, Bearing
15	2108202SM	1	BEARING, BALL
16	1715787CSM	2	CUTTER, Drift, (Optional)
17	1921332SM	4	CAPSCREW, Hex Head, 5/16-18 x 3/4, (Optional)
18	1923325SM	6	CAPSCREW, Hex Head, 5/16-18 x 7/8
19	1668639CSM	2	BEARING, Cap
20	1665980SM	2	BEARING, Auger, Flange
21	1663189SM	2	SPACER
22	1960687SM	4	NUT, ESNA Flange 3/8-16
25	2177434C	2	SKID
26	1709946ASM	1	BLADE, Scraper, 24"
27	1935048SM	5	NUT, Hex Flange, 2-Way Lock, 5/16-18
28	19607011SM	4	CARRIAGE BOLT, Round Head Square Neck 3/8-16 x 3/4
29	1923362SM	6	NUT, Hex, Center Lock, 5/16-18
30	1960684SM	4	NUT, Hex, 5/16-18 Conical Washer
31	1960699SM	5	CARRIAGE BOLT, Round Head Square Neck 5/16-18 x 5/8
32	1612184C	1	HOUSING ASSEMBLY, Auger, 24"
33	1960001SM	1	CAPSCREW, Hex Head, Plastite, 10-14 x 5/8

Decals Group - 860DLX, 970, 1180

Note: Unless noted otherwise, use the standard torque specifications

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TOUCH-UP PAINT PART NUMBERS		
13 Oz. Spray Can Paint		
EEEEEDeep Orange	1685611	
EEEEEGloss Black	1685639	
1/2 Oz. Touch-Up Bottle		
EEEEEDeep Orange	1685615	

Decals Group - 860DLX, 970, 1180

REF NO	PART NO	QTY	DESCRIPTION
1	1714245SM	1	DECAL, Shift Pattern, RH
2	1720674SM	1	DECAL, Dash
2	1722688SM	1	DECAL, Dash (Export)
3	1714246SM	1	DECAL, Shift Pattern, LH
4	1714106SM	1	DECAL, Stripe, 860
4	1714841SM	1	DECAL, Stripe, 970
4	1720537SM	1	DECAL, Stripe, 1180
5	1722641SM	1	DECAL, Discharge Chute Danger (Export)
5	1722674SM	1	DECAL, Discharge Chute Warning
6	1716532SM	1	DECAL, Auger Danger
6	1722642SM	1	DECAL, Auger Danger (Export)
7	-----	1	DECAL, OPEI (Not Serviced)
8	-----	1	DECAL, Decibel (Export)
8	-----	1	DECAL, Patent
9	1720454SM	1	DECAL, Touch Up Paint Deep Orange
10	-----	1	I.D. Tag (Not Serviced)

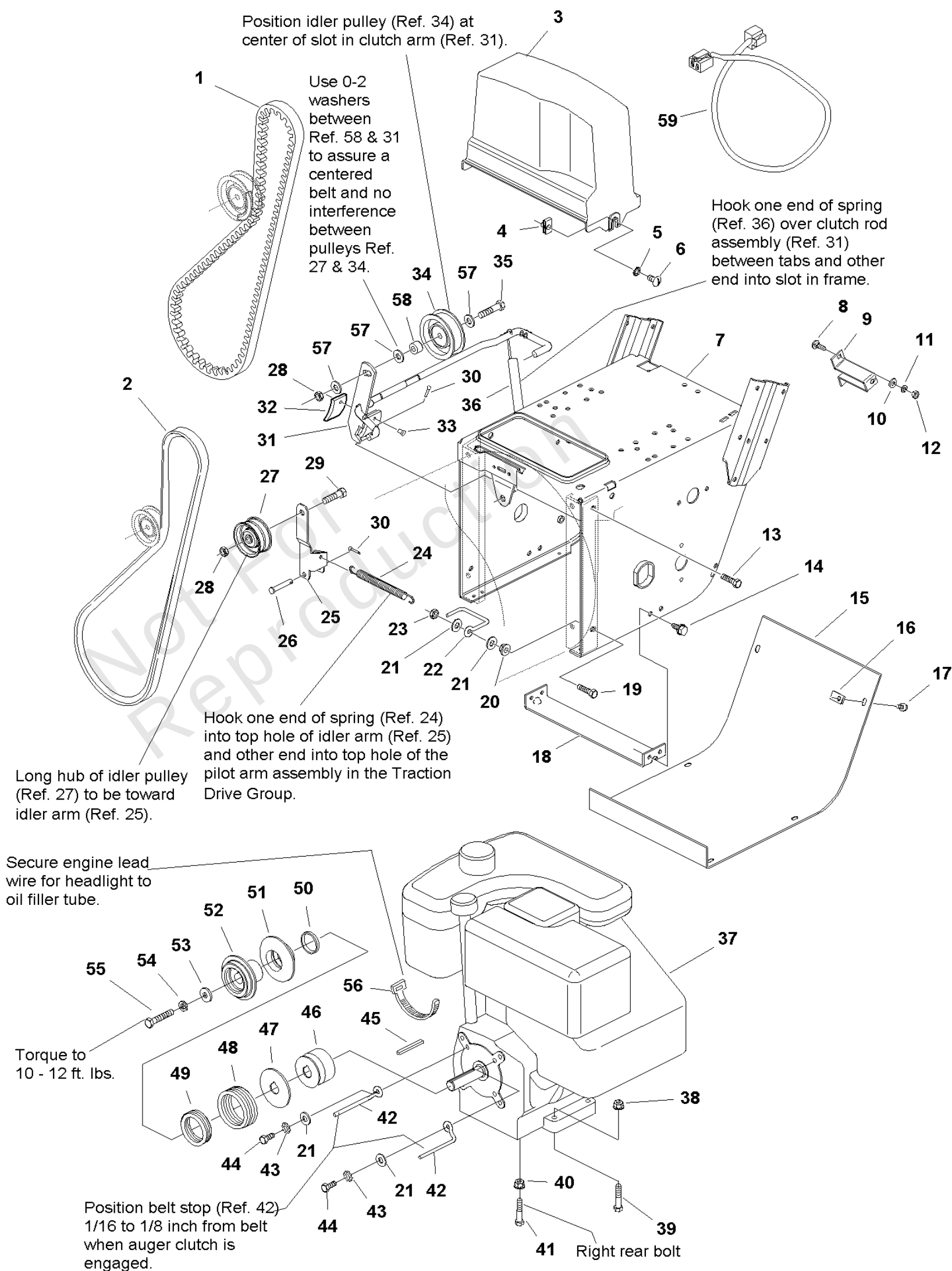
Footnotes:

Note:* Not a Service Part.

Engine & Frame Group - 8HP, Electric Start

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694241



Engine & Frame Group - 8HP, Electric Start

REF NO	PART NO	QTY	DESCRIPTION
1	1672732SM	1	BELT, Traction
2	1701257SM	1	BELT, Auger Drive
3	1725287SM	1	GUARD, Belt
4	1935255SM	2	NUT, SPEED, 5/16-18 L
5	2820426SM	2	LOCKWASHER, Ext. Tooth, 5/16
6	1918249SM	2	SCREW, 5/16-18 X 3/4, Slotted Truss Head, Blk
7	1725270SM	1	FRAME, Main
8	1931317SM	2	CARRIAGE BOLT, 1/4-20 x 3/4
9	1720404ASM	1	SUPPORT, Clutch Cable
10	1921319SM	2	WASHER, 1/4
11	1916964SM	2	LOCKWASHER, Spring, 1/4
12	1916622SM	2	NUT, Hex 1/4-20
13	1930591SM	2	CAPSCREW, Whizlock, 5/16-18 x 3/4
14	1664847SM	4	CAPSCREW, Taptite, 5/16-18 x 3/8
15	1666374SM	1	COVER, Bottom
16	1926018SM	6	NUT, Speed, 1/4-20
17	1925003SM	6	CAPSCREW, Taptite, 1/4-20 x 1/2
18	1669198ASM	1	SUPPORT, Tie Bar
19	1930595SM	2	CAPSCREW, Whizlock, 5/16-18 x 1-1/4
20	1927557SM	4	NUT, Hex, Whizlock, 5/16-18
21	1919326SM	6	WASHER, 5/16
22	1702969SM	2	GUIDE, Belt
23	1923362SM	2	NUT, Hex, Centerlock, 5/16-18
24	1727149SM	1	SPRING, Idler
25	1703046ASM	1	ARM, Idler, Traction
26	1665994SM	1	PIN-FLAT HD DRILLED .
27	1668477SM	1	PULLEY, Idler
28	1928731SM	2	LOCKNUT, Jam, 3/8-16
29	1960647SM	1	SCREW, Hex Head, 3/8-16 x 1-1/2
30	1918451SM	2	PIN, Cotter, 1/8 x 3/4
31	1727058ASM	1	CLUTCH ROD & BRAKE ASSEMBLY
32	1669313SM	1	PAD, Brake
33	2825160SM	2	RIVET, Pop
34	2154534SM	1	PULLEY
35	1921971SM	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
36	1724503SM	1	SPRING, Extension
37	-----	1	ENGINE, Tecumseh, 8 H.P. Electric Start - Engine Model # OSHK80, Engine Type # 221202A
38	1931277SM	3	NUT, Hex, 5/16-18, Black
39	1922127SM	3	SCREW, Hex Head Cap, 5/16-18 x 1 3/4
40	1931277SM	1	NUT, Hex Flange, 5/16-18
41	1922127SM	1	SCREW, Hex Head Cap, 5/16-18 x 1 3/4
42	1702970SM	2	GUIDE, Belt
43	1917356SM	2	LOCKWASHER, 5/16
44	1921515SM	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
45	1672129SM	1	KEY, Parallel, 3/16 x 13/16 x 7/8
46	1701783SM	1	PULLEY, Traction
47	1701818SM	1	WASHER, Thrust
48	1702425SM	1	SPRING, Compression

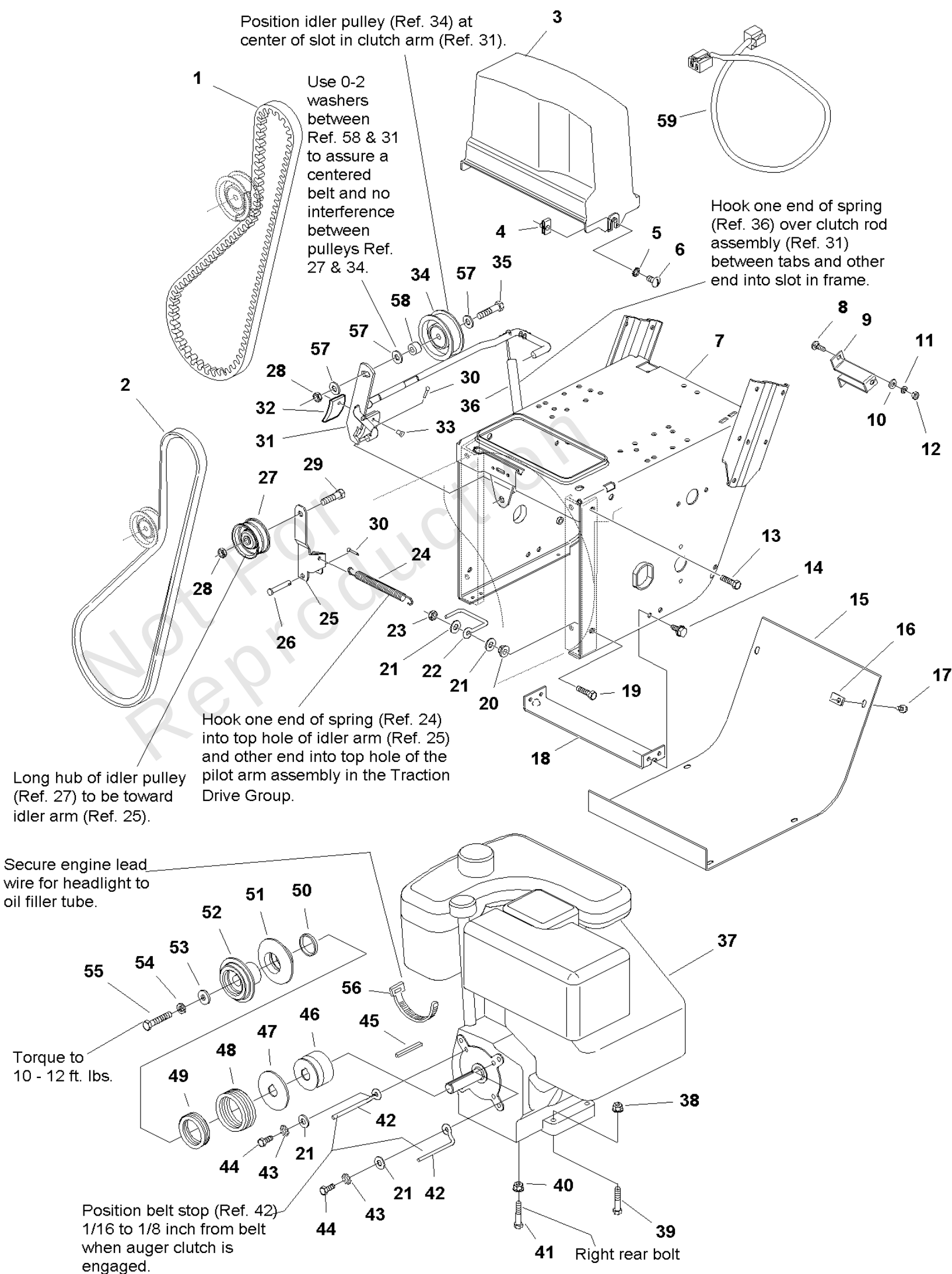
Footnotes:

Note:* See your local Tecumseh distributor for Parts & Service.

Engine & Frame Group - 8HP, Electric Start

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Engine & Frame Group - 8HP, Electric Start

REF NO	PART NO	QTY	DESCRIPTION
49	1702979SM	1	SPRING, Compression
50	1685366SM	1	WICK, Oil
51	1726863SM	1	PULLEY, Drive
52	1726864SM	1	PULLEY, Drive
53	1922755SM	1	WASHER,13/32 x 1
54	1916965SM	1	LOCKWASHER, Spring, 3/8
55	1960345SM	1	CAPSCREW, Hex Head, 3/8-24 x 2
56	1701011SM	1	TIE, Self Locking
57	1924940SM	3	WASHER, Flat,13/32
58	2157081SM	1	SPACER
59	1724064SM	1	CORD, Electric, 3 Prong

Not For
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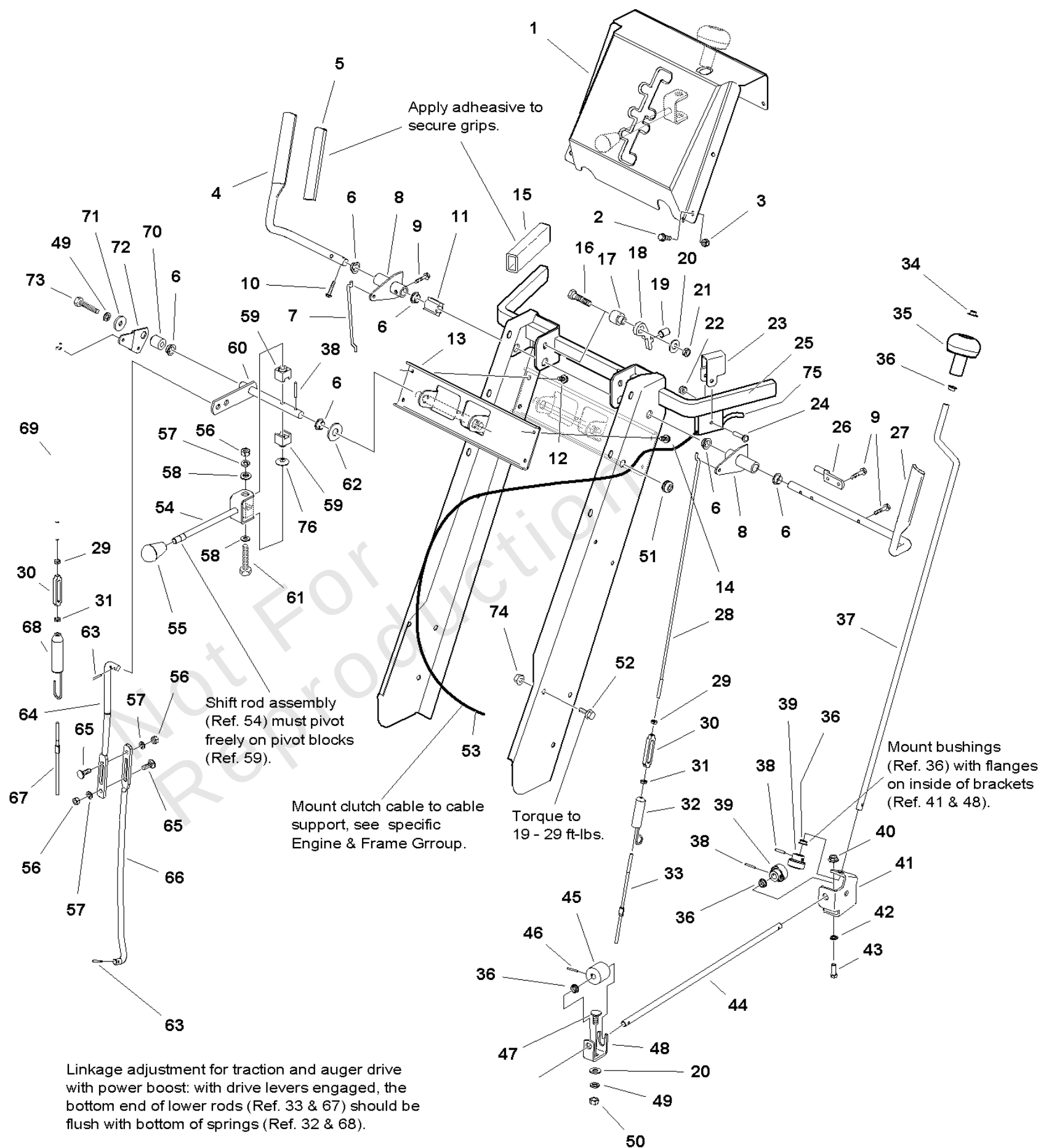
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Handles and Controls Group

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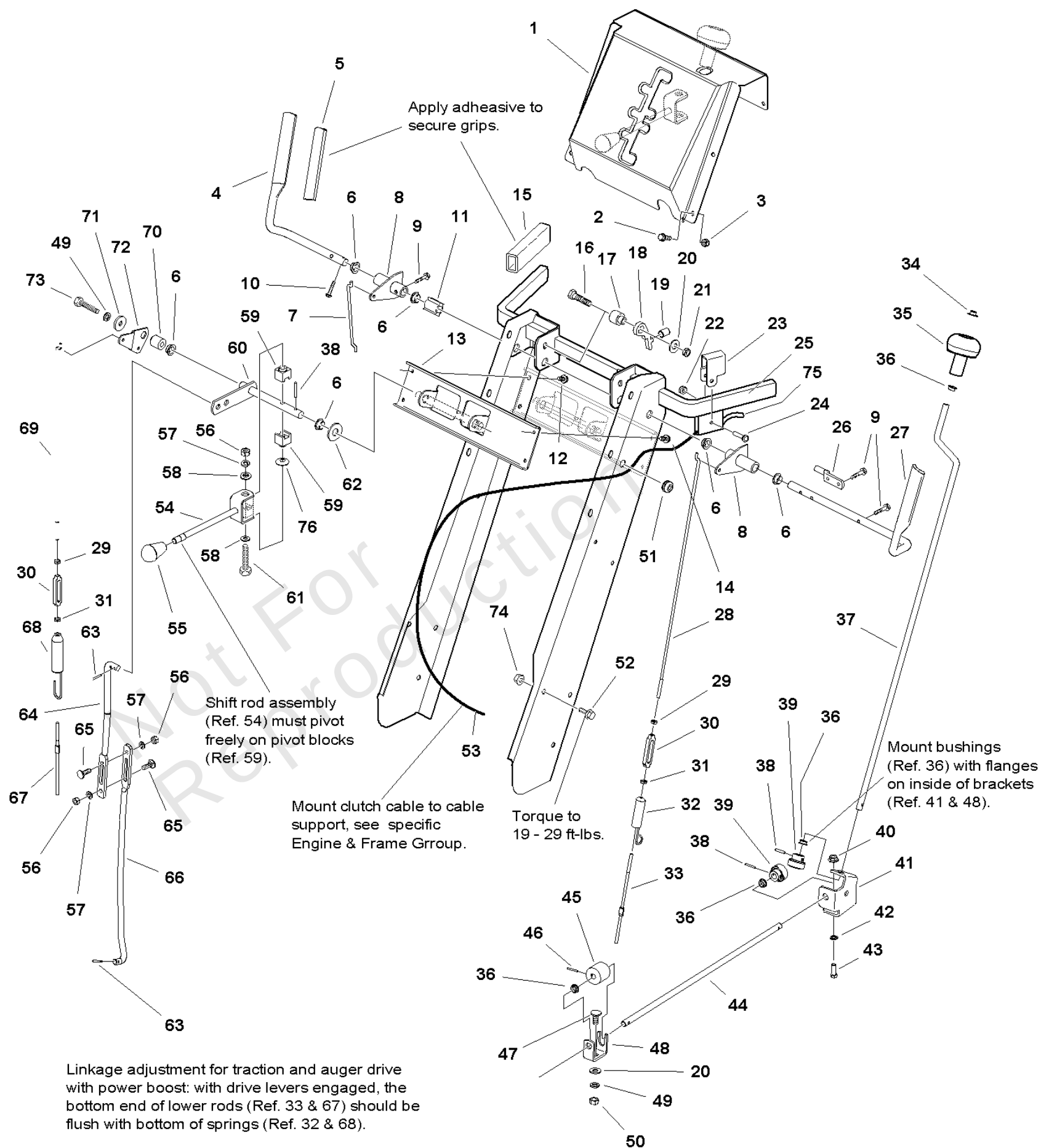
Handles and Controls Group

REF NO	PART NO	QTY	DESCRIPTION
1	1667800CSM	1	DASHBOARD
2	1935450SM	4	CAPSCREW-HEX WSHR HD
3	1920397SM	4	NUT, Hex Lock, 1/4-20
4	1612165SM	1	HANDLE, Clutch, RH
5	1668608SM	2	GRIP
6	1668185SM	6	BUSHING, Nylon
7	1702663SM	1	ROD, Clutch
8	1704255SM	2	LEVER & TUBE ASSEMBLY, Clutch
9	1960471SM	4	CAPSCREW, Hex Washer Head, #12-24 x 1
10	1928732SM	1	CAPSCREW, Hex Washer Head, #10-24 x 1
11	1705899SM	1	GUIDE, Control
12	1927429SM	2	CAPSCREW, Hex Washer Head, 1/4-20 x 5/8
13	1723935ASM	1	BRACKET, Shift Control
14	1925003SM	4	CAPSCREW, Hex Head, Taptite, 1/4-20 x 1/2
15	1671041SM	2	GRIP
16	1921221SM	1	CAPSCREW, Hex Head, 5/16-18 x 1 1/2
17	1678579SM	1	SPACER
18	1705898SM	1	LATCH, Control
19	1701342SM	1	SPRING, Compression
20	1919326SM	2	WASHER, 5/16
21	1923362SM	1	NUT, Hex, Center Lock, 5/16-18
22	1933896SM	1	NUT, Hex Lock, #10-24
23	1720747SM	1	CLAMP, Clutch Cable
24	1960393SM	1	SCREW, Phillips, Pan Head, #10-24 x 1
25	1687000SM	1	HANDLE ASSEMBLY
26	1677453SM	1	ROD, Control
27	1612167SM	1	HANDLE, Clutch, LH
28	1668121SM	1	ROD, 17.3" Long
29	2828704SM	2	NUT, LH, Machine Screw, Hex, #10-24
30	2108775SM	2	TURNBUCKLE
31	1916621SM	2	NUT-HEX MACHINE SCREW
32	1707452SM	1	SPRING
33	1668526SM	1	ROD, Clutch
34	1960093SM	1	PUSH NUT
35	1714084SM	1	KNOB, Spinner
36	1667588SM	4	BUSHING, Nylon
37	1715658SM	1	ROD, Chute Control
38	1918452SM	3	PIN, Cotter
39	1718593SM	2	GEAR
40	1960294SM	2	NUT, Hex Flange, 1/4-20
41	1718793SM	1	SUPPORT, Gear
42	1960518SM	2	PUSH NUT
43	1960252SM	2	BOLT-RD HD SH SQ NK 1
44	1668187SM	1	ROD, Chute
45	1668186SM	1	GEAR, Worm
46	2816168SM	2	PIN, Spring, 1/8 x 3/4
47	1931333SM	1	CARRIAGE BOLT, 5/16-18 x 3/4
48	1611911SM	1	SUPPORT, Worm
49	1917356SM	2	LOCKWASHER, Spring, 5/16
50	1917372SM	1	NUT, Hex, 5/16-18
51	1664022SM	1	GROMMET

Handles and Controls Group

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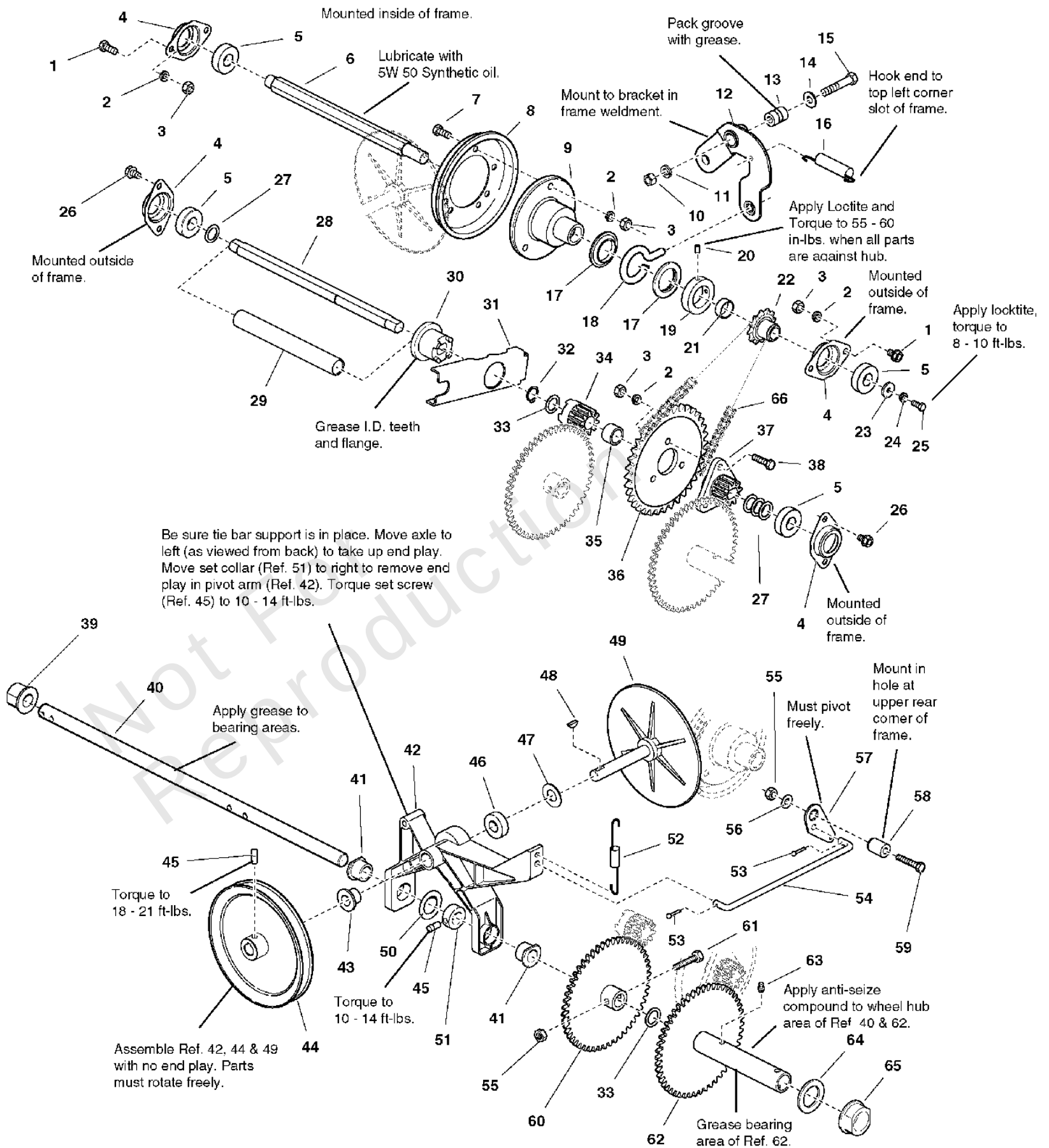
Handles and Controls Group

REF NO	PART NO	QTY	DESCRIPTION
52	1930591SM	6	CAPSCREW, Hex Whiz Lock, 5/16-18 x 3/4
53	1718791SM	1	CABLE & HANDLE ASSEMBLY, Clutch (Includes Ref. 75)
54	1714120SM	1	SHIFT ASSEMBLY, Rod & Clevis
55	1713844SM	1	KNOB
56	1916622SM	3	NUT, Hex, 1/4-20
57	1916964SM	3	LOCKWASHER, Spring, 1/4
58	1921319SM	1	WASHER, 1/4
59	1668524SM	2	BLOCK, Pivot
60	1703043SM	1	ROD & ARM ASSEMBLY, Pivot
61	1921159SM	1	CAPSCREW, Hex Head, 1/4-20 x 2 1/4
62	1924361SM	1	WASHER, 1/2
63	1918447SM	3	PIN, Cotter
64	1726304SM	1	ROD, Shift, Upper
65	1931317SM	2	CARRIAGE BOLT, 1/4-20 x 3/4
66	1666255SM	1	ROD, Shift, Lower
67	1702004SM	1	ROD, Clutch, Lower
68	1701996SM	1	SPRING
69	1702485SM	1	ROD, Clutch, Upper
70	1702552SM	1	SPACER
71	1919381SM	1	WASHER, 5/16
72	1702662SM	1	LEVER, Clutch
73	1922127SM	1	SCREW, Hex Head Cap, 5/16-18 x 1 3/4
74	1931277SM	6	NUT, Hex Flange, 5/16-18
75	1718804SM	1	TRIGGER ASSEMBLY, Easy Turn Clutch Cable
76	1668681SM	1	WASHER, Curved, 1/2

Traction Drive Group

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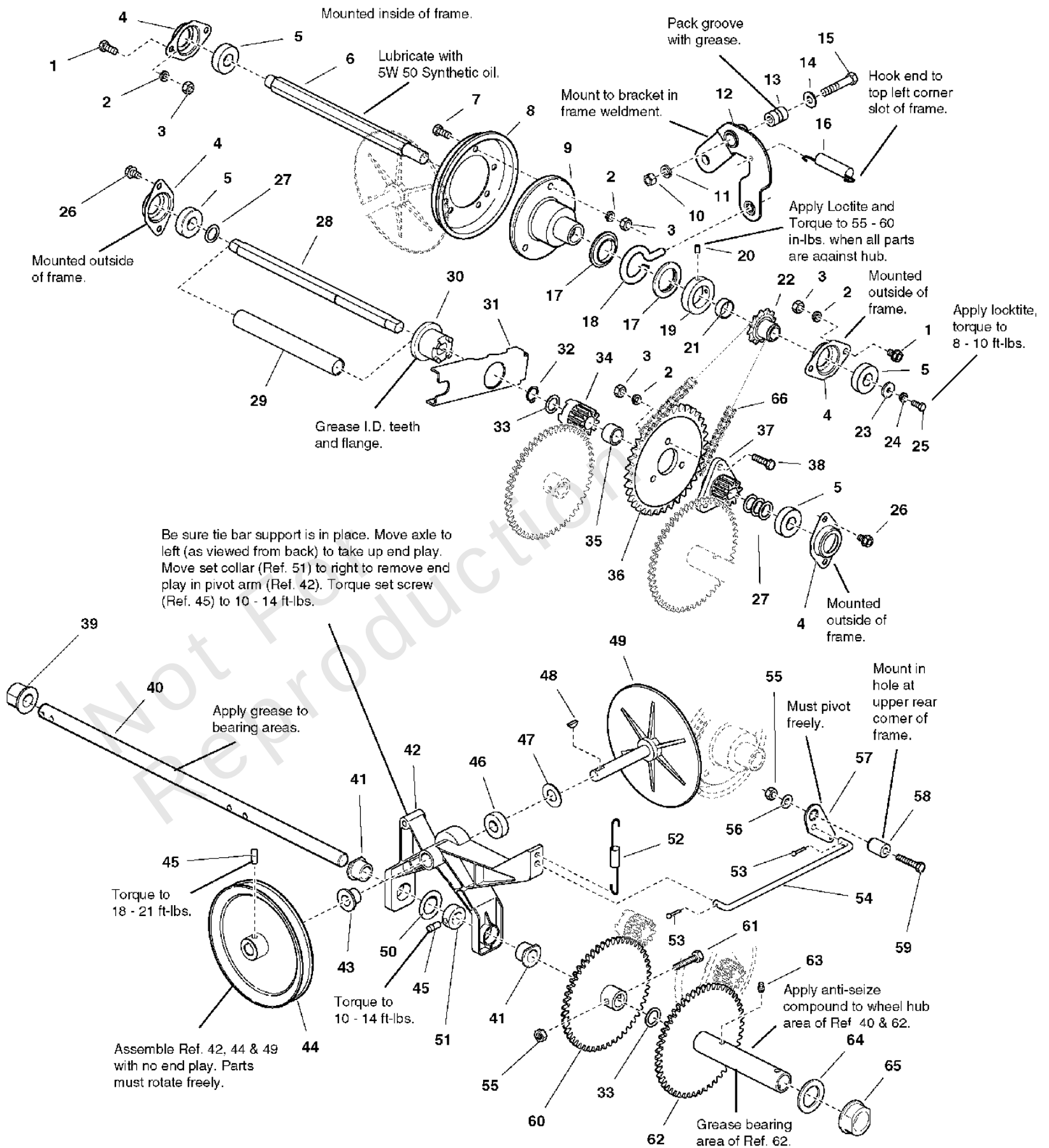
Traction Drive Group

REF NO	PART NO	QTY	DESCRIPTION
1	1925205SM	4	CAPSCREW, Hex Head, 5/16-18 x 5/8
2	1917356SM	10	LOCKWASHER, 5/16
3	1917372SM	10	NUT, Hex, 5/16-18
4	1667341SM	4	RETAINER, Bearing
5	1705897SM	4	BEARING, BALL 11/16X1
6	1667340SM	1	SHAFT, Hex
7	1921332SM	3	CAPSCREW, Hex Head, 5/16-18 x 3/4
8	1725428SM	1	DISC, Friction
9	1665995SM	1	HUB, Friction Disc
10	1916950SM	1	NUT, Hex, 3/8-16
11	1916965SM	1	LOCKWASHER, 3/8
12	1669256SM	1	ARM ASSEMBLY, Shift w/Bushings
13	1666114SM	1	BUSHING, Spacer
14	1924940SM	1	WASHER, Flat, 13/32
15	1923701SM	1	CAPSCREW, Hex Head, 3/8-16 x 2
16	1668255SM	1	SPRING
17	1678956SM	2	COLLAR, Thrust
18	1666207SM	1	PIN, Slide
19	1667335SM	1	SET COLLAR
20	1724333SM	2	SETSCREW, Square Head, 1/4-20 x 1/2
21	1720409SM	1	SPACER
22	1667331SM	1	SPROCKET, 10 Tooth
23	1960353SM	1	WASHER, Flat, 1/4
24	1916964SM	1	LOCKWASHER, 1/4
25	1921959SM	1	CAPSCREW, Hex Head, 1 /4-20 x 5/8
26	1924856SM	4	CAPSCREW, Hex Head Taptite, 5/16-18 x 1/2
27	2860164SM	4	WASHER
28	1718752SM	1	JACKSHAFT
29	1720298SM	1	SPRING, Compression
30	1718689SM	1	CLUTCH, Sliding
31	1720078ASM	1	ARM, Clutch
32	2827732SM	1	RING, Retaining
33	1960114SM	2	WASHER, 3/4
34	1718688SM	1	GEAR, 10 Tooth, Stationary, Clutch
35	1679556SM	1	SPACER
36	1667330SM	1	SPROCKET, 36 Tooth
37	1718687SM	1	GEAR, 10 Tooth, Double D
38	703570	3	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
39	1666001SM	1	BUSHING
40	1720299SM	1	AXLE
41	1666425SM	2	BUSHING
42	1670849SM	1	ARM ASSEMBLY, Pivot w/Bushings (Includes Reference Numbers 41, 43 & 46)
43	1666855SM	1	BUSHING
44	1672595A	1	PULLEY, Traction
45	1928721SM	2	SETSCREW, Square Head, 5/16-18 x 1/2
46	1665521SM	1	BEARING
47	1666379SM	1	WASHER
48	2818312SM	1	KEY, Woodruff, 3/16 x 5/8
49	1719879SM	1	DRIVE DISC W/SPINDLE
50	1919394SM	1	WASHER
51	1729254SM	1	SET COLLAR

Traction Drive Group

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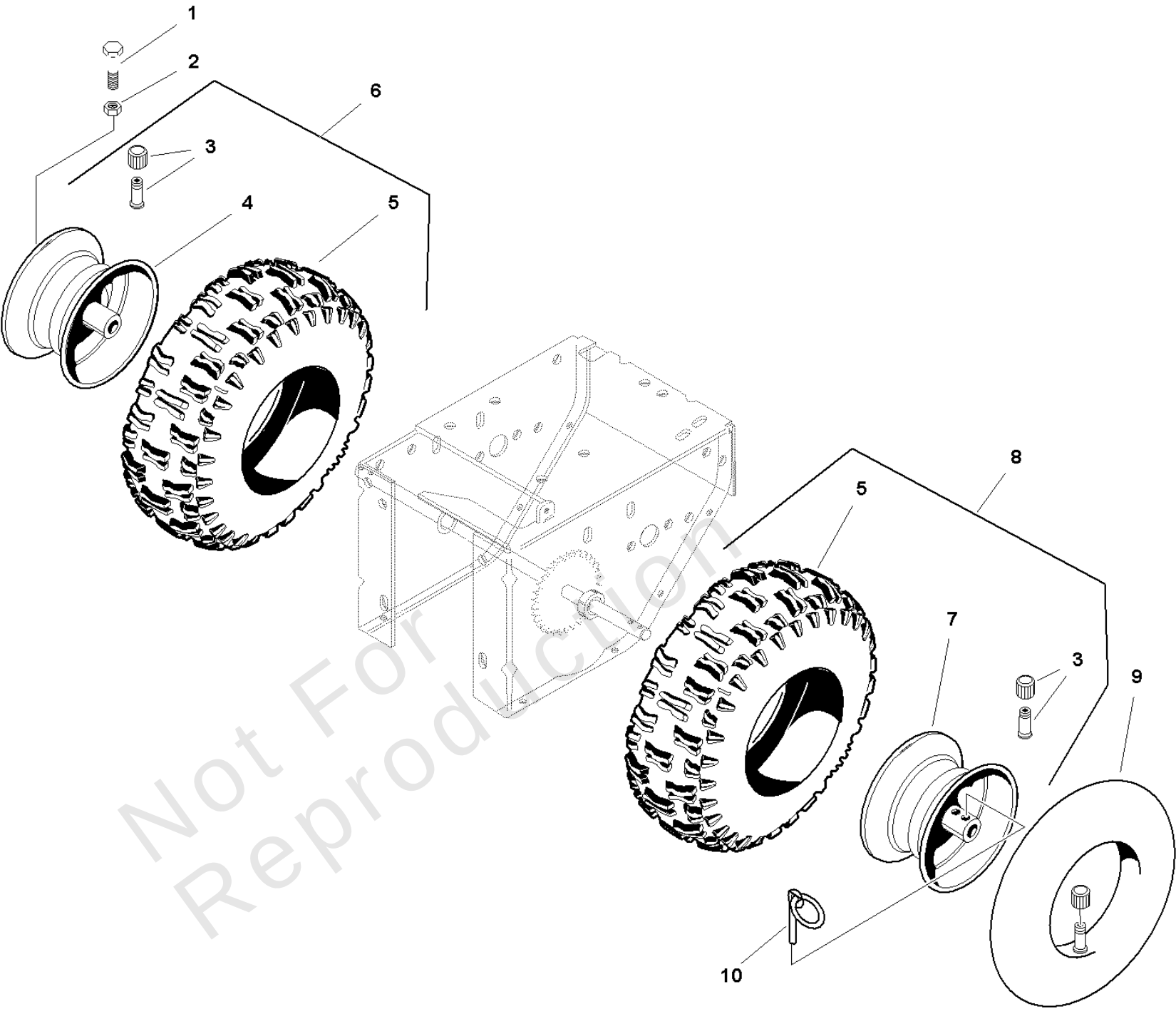
Traction Drive Group

REF NO	PART NO	QTY	DESCRIPTION
52	1725666SM	1	SPRING
53	1918451SM	2	PIN, Cotter, 1/8 x 3/4
54	1726467SM	1	ROD, Pivot
55	1919438SM	3	NUT, Hex, Lock, 5/16-18
56	1919326SM	1	WASHER, 5/16
57	1700473SM	1	BELLCRANK
58	1666106SM	1	BUSHING, Pivot
59	1922127SM	1	SCREW, Hex Head Cap, 5/16-18 x 1 3/4
60	1720300SM	1	GEAR & HUB ASSEMBLY, 50 Tooth
61	1930570SM	2	CAPSCREW, Hex Head, 5/16-18 x 1-1/2
62	1720716SM	1	GEAR & HUB ASSEMBLY, w/Bushing, 50 Tooth
63	2821133SM	1	FITTING, Lube
64	2860169SM	1	WASHER
65	1720305SM	1	BUSHING
66	1666980SM	1	CHAIN, Drive, #40

Wheels & Tires Group

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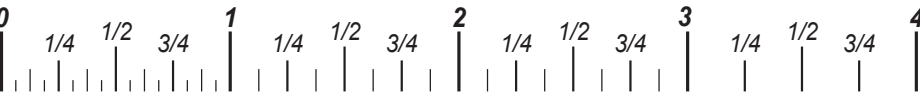
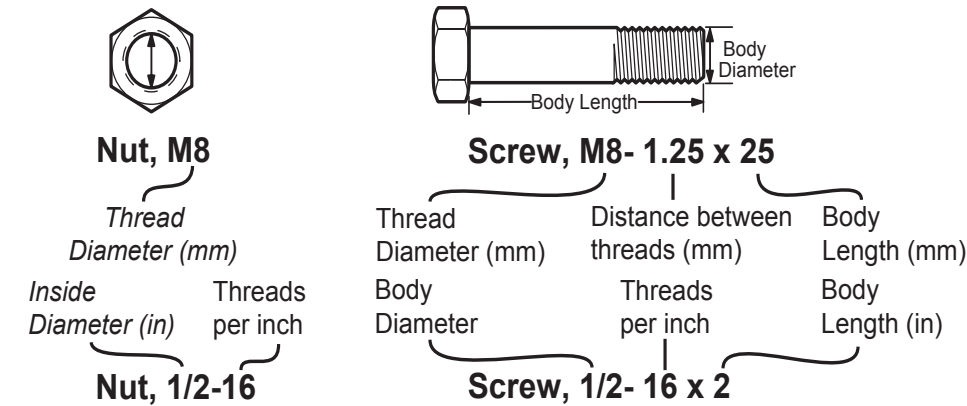
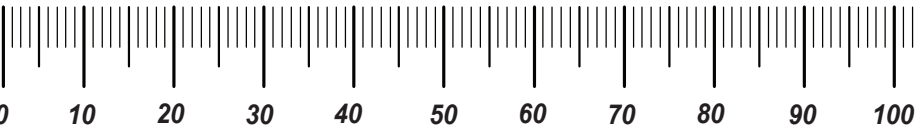
Wheels & Tires Group

REF NO	PART NO	QTY	DESCRIPTION
1	1731186SM	1	KLIK-PIN
3	2172353SM	2	VALVE STEM & CAP
4	1714242SM	1	HUB, Wheel R.H., 3-3/4 Wide 8 Diameter 3/4 ID
5	1612000SM	2	TIRE, 4.80-4.00-8
6	1714235SM	1	WHEEL & TIRE ASSEMBLY, RH (Includes Reference Numbers 3, 4 & 5)
7	1720307SM	1	HUB, Wheel, LH
8	1720306SM	1	WHEEL & TIRE ASSEMBLY, LH (Includes Reference Numbers 3, 5 & 7)
9	2153038SM	2	TUBE, Tire
10	1666969SM	1	KLIK-PIN

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).

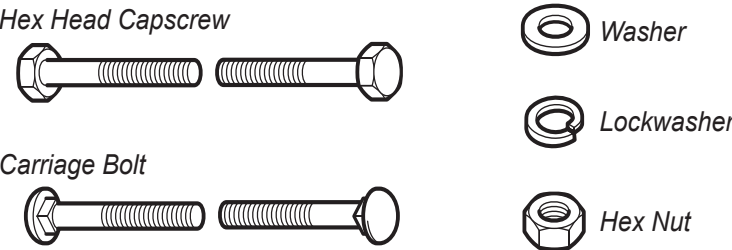
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

