



Parts Manual

Mfg. No: 1691773
GTH, 16HP Hydro and 48" Mower Deck

1691736 - 48" Mower Deck.

1691766 - GTH, 16HP Hydro.

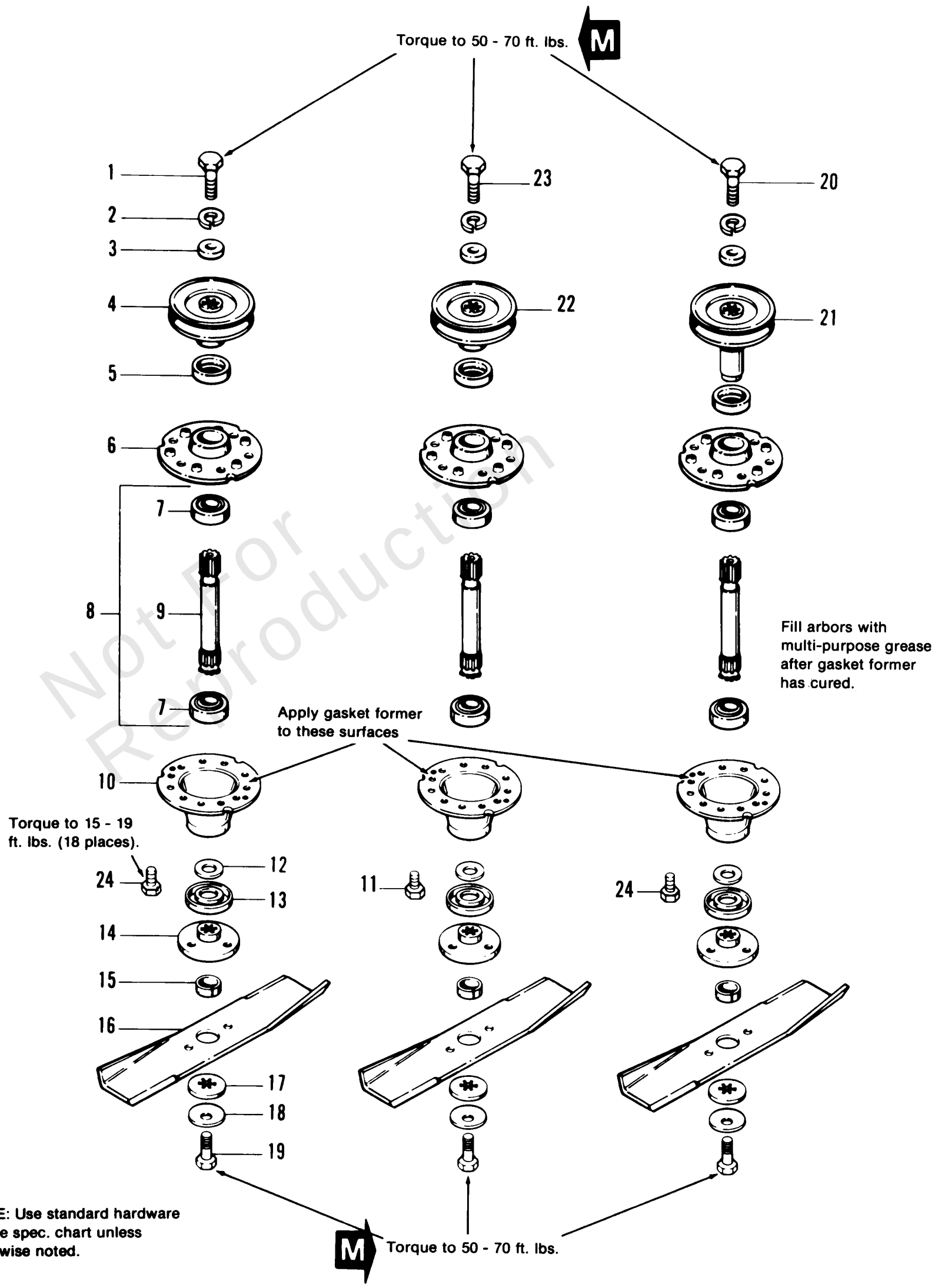
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42" & 48" Arbor Cover

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



42" & 48" Arbor Cover

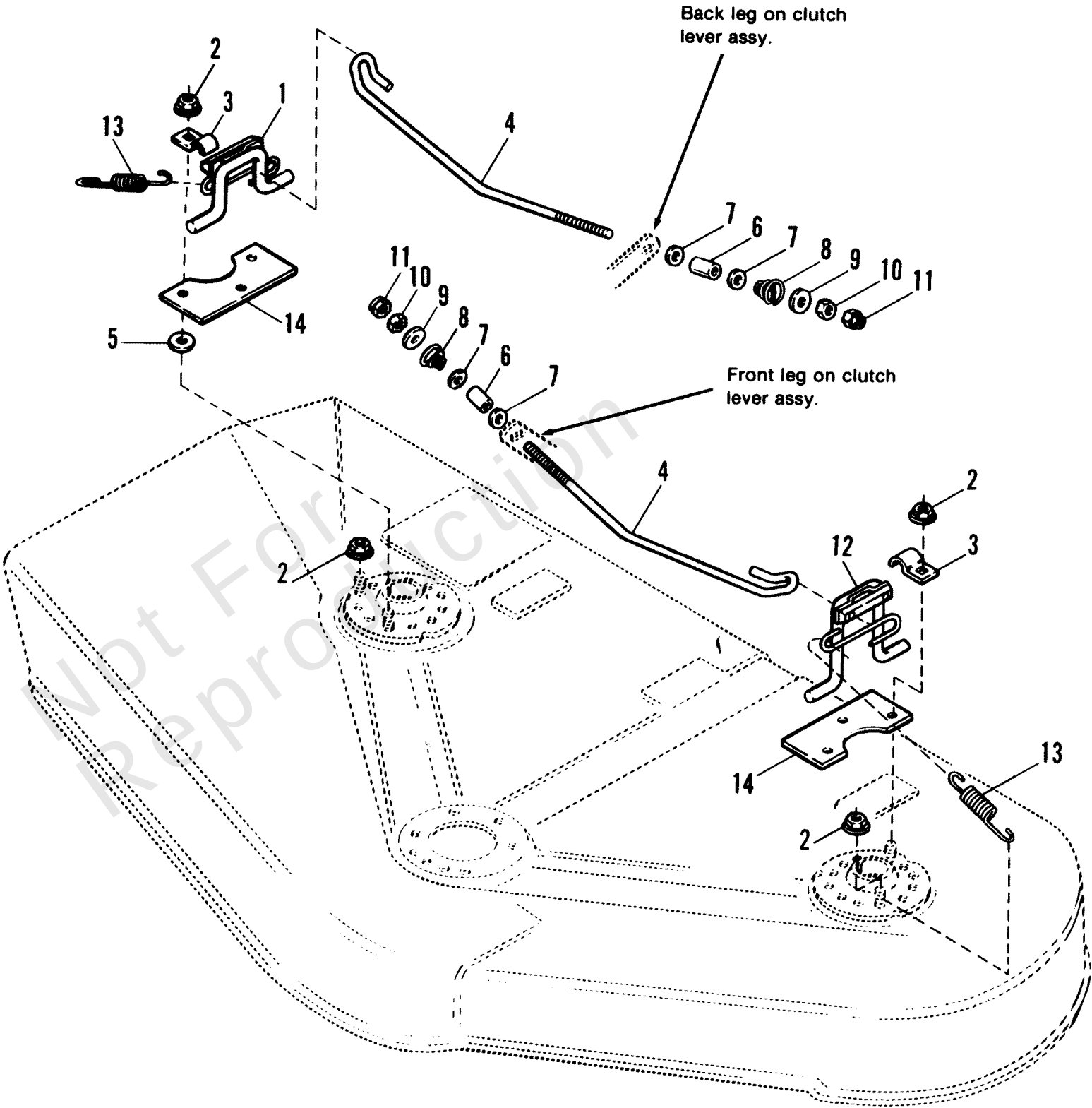
REF NO	PART NO	QTY	DESCRIPTION
1	1923451SM	1	CAPSCREW, Hex 7/16-14 x 1/2
2	1918199SM	3	LOCKWASHER, 7/16
3	1933263SM	3	WASHER, Plain, 29/64 x 1-1/4 x 1/4
4	1702153SM	1	PULLEY ASSY.
5	1657969SM	3	SHIELD, Bearing Upper, Arbor
6	1655729ASM	3	HOUSING-ARBOR TOP - B
7	2108202SM	6	BEARING, BALL
8	1685251SM	3	SHAFT & BEARING ASSY. (Incl. Ref. Nos. 7, 9 & 15)
9	1685245SM	3	SHAFT, Arbor (Incl. Ref. No. 15)
10	1703273ASM	3	HOUSING, Bottom
11	1664847SM	6	SCREW, Hex, Taptite, 5/16-18 x 3/4
12	1700230SM	3	WASHER, Shim
13	1700229SM	3	SHIELD, Grass
14	1655777SM	3	ADAPTOR, Blade
15	1672132SM	3	COLLAR
16	1656147ASM	3	BLADE, 42" Mower
16	1656146ASM	3	BLADE, 48" Mower
17	1656927SM	3	WASHER, Spline
18	1656916SM	3	WASHER, SPRING 0.475I
19	2823471SM	3	CAPSCREW, Hex 7/16-14 x 1
20	1930585SM	1	CAPSCREW, Hex, 7/16-14 x 3-1/2
21	1665347ASM	1	PULLEY ASSY.
22	1665476SM	1	PULLEY ASSY.
23	1936723SM	1	CAPSCREW, Hex, 7/16-14 x 1-3/4
24	1960373SM	12	SCREW, Hex Taptite, 5/16-18 x 1

42" & 48" Brake Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773

**NOTE: See Operator's Manual for
Blade Brake Adjustment Procedures.**



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

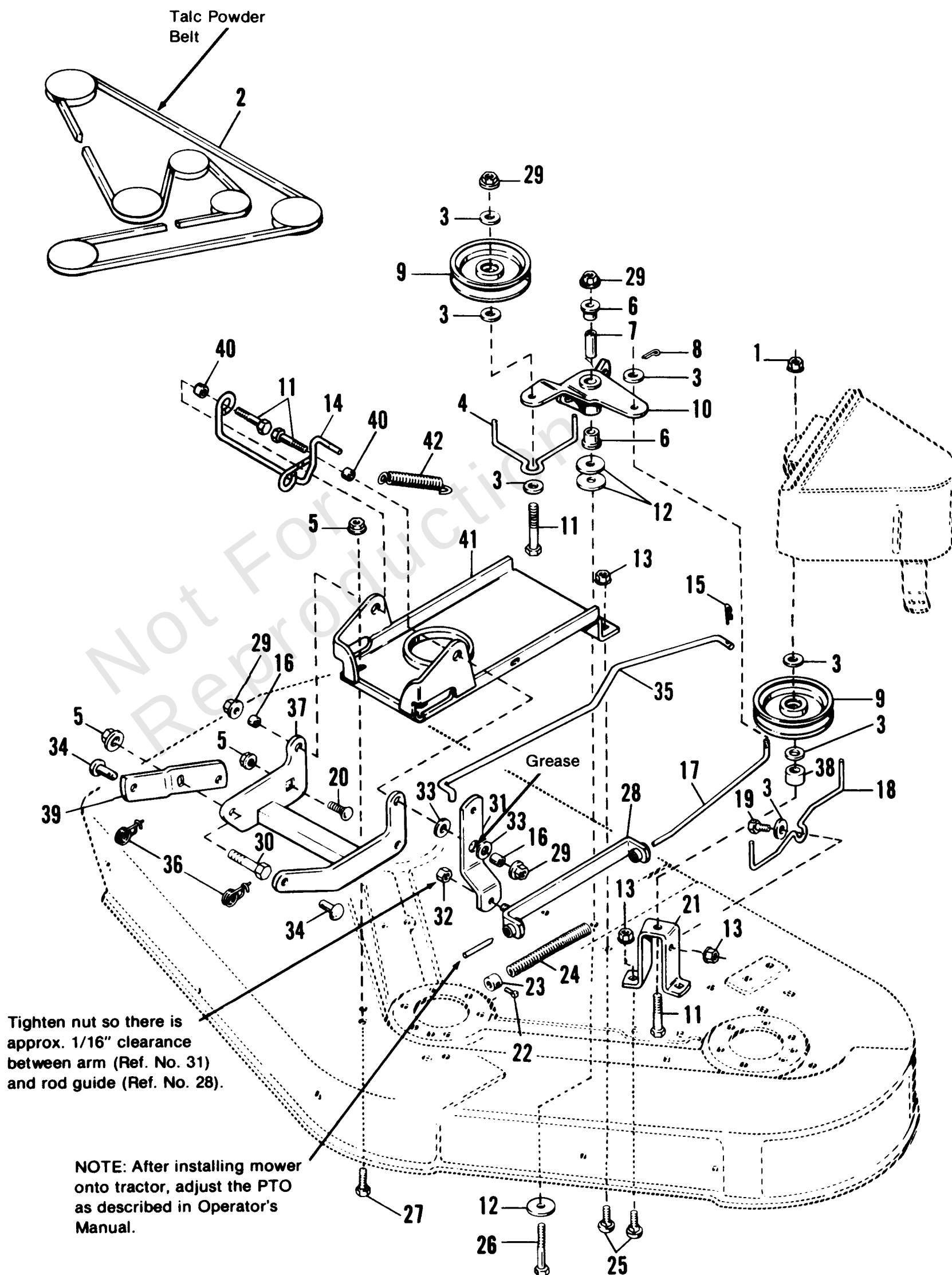
42" & 48" Brake Group

REF NO	PART NO	QTY	DESCRIPTION
1	1701764SM	1	ROD ASSY., Brake, R.H. w/Pad
2	1935048SM	6	NUT, Hex, Flange Lock, 5/16-18
3	1664004SM	4	CLIP
4	1701866SM	2	ROD, Brake, 42"
4	1701867SM	2	ROD, Brake, 48"
5	1922755SM	2	WASHER, 13/32 x 1
6	1664857SM	2	SPACER
7	1921319SM	2	WASHER, 1/4
8	1676253SM	2	SPRING
9	1919381SM	2	WASHER, 11/32 x 1
10	1916622SM	2	NUT, Hex Full, 1/4-20
11	1920397SM	2	NUT, Hex Lock, Esna Light, 1/4-20
12	1701765SM	1	ROD ASSY., Brake, L.H. w/Pad
13	1702246SM	2	SPRING, Extension
14	1701747	2	BRACKET

42" & 48" Clutch & Support Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



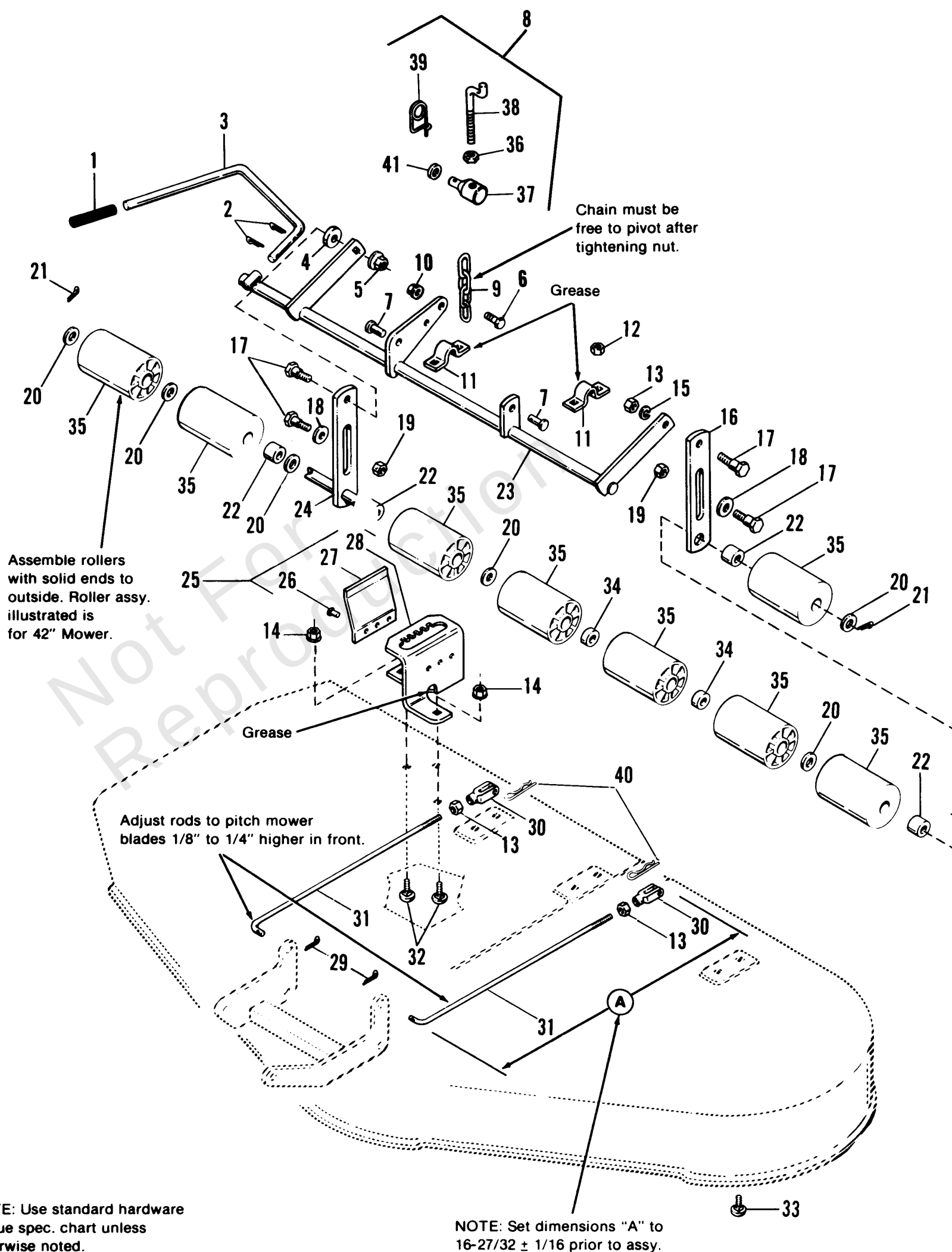
42" & 48" Clutch & Support Group

REF NO	PART NO	QTY	DESCRIPTION
1	1931211SM	1	NUT, Hex, Full, Flange Whizlock, 3/8-16
2	1668066SM	1	V-BELT, Mower Drive (42" only)
2	1703466SM	1	V-BELT, Arbor Drive, .34" HA Shallow-Groove
3	1924940SM	8	WASHER, Plain
4	1669306SM	1	STOP, Belt
5	1935041SM	4	NUT, Flange, Whizlock, 7/16-14
6	1663114SM	2	BUSHING
7	1657242SM	1	SPACER
8	1918447SM	1	PIN, Cotter, 3/32 x 3/4
9	2171247SM	2	PULLEY, Idler
10	1703289SM	1	LEVER ASSY., Clutch
11	1921971SM	4	CAPSCREW, 3/8-16 x 1-3/4
12	1924356SM	3	WASHER, Special
13	1931277SM	5	NUT, Hex, Flange Whizlock, 5/16-18
14	1685385SM	1	ROD, Brake (42" only)
14	1685386SM	1	ROD, Brake (48" Only)
15	1918196SM	1	PIN, Quick, 1-7/8
16	1674440SM	2	SPACER
17	1668041SM	1	ROD, Clutch, Mower
18	1669259SM	1	STOP, Belt
19	703570	1	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
20	1960135SM	1	CARRIAGE BOLT, 7/16-14 x 1-1/4
21	1665649	1	SUPPORT, Idler
22	1928804SM	1	SETSCREW, Sq. Hd., 1/4-20 x 3/8
23	1729276SM	1	COLLAR, Set
24	1668282SM	1	SPRING
25	1931333SM	4	BOLT, Carriage, 5/16-18 x 3/4
26	1928957SM	1	CAPSCREW, 3/8-16 x 2-3/4
27	1960043SM	2	SCREW-HEX WZ LOCK FLN
28	1668278SM	1	GUIDE ASSY., Rod
29	1930645SM	4	NUT, Hex, Flange, 3/8-16
30	1920677SM	1	CAPSCREW, Hex Hd., 7/16-14 x 1-1/4
31	1665624SM	1	ARM, Pivot
32	1928698SM	1	NUT, Jam, Ctr. Lock, 5/16-18
33	1960020SM	2	WASHER, Plain, 21/32
34	2156306SM	2	PIN-RND HD DRILLED .3
35	1669160SM	1	ROD, Clutch, Tractor, P.T.O.
36	2176012SM	2	PIN, Safety
37	1674443ASM	1	ARM ASSY., Rocker
38	2174870SM	1	SPACER
39	1674441SM	1	ARM, Rocker
40	2118335SM	2	SPACER
41	1677079A	1	SUPPORT ASSY.
42	2156302	1	SPRING

42" & 48" Height Adjusting & Roller Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



42" & 48" Height Adjusting & Roller Group

REF NO	PART NO	QTY	DESCRIPTION
1	2176933SM	1	GRIP
2	1918452SM	2	PIN, Cotter, 1/8 x 1
3	1656412SM	1	LEVER, Control
4	2822755	1	WASHER, Plain, 13/32
5	2828352	1	LOCKNUT, Hex, Flange, Whiz, 3/8-16
6	703570	1	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
7	1923087SM	2	PIN, Clevis
8	1685247SM	1	ROD, Lift, (Incl. Ref. No. 36, 37, 38, 39, 41)
9	1669241SM	1	CHAIN, Lift
10	1935048SM	1	LOCKNUT, Flange, 5/16-18
11	1665374SM	2	STRAP-1.00WD 3.06LG .
12	1931277SM	4	NUT, Hex, 5/16-18 (Qty. 6 on 48")
13	1916950SM	2	NUT, Hex, 3/8-16
14	1931211SM	6	NUT, Hex, Flange Whizlock, Full, 3/8-16
15	1916965SM	4	LOCKWASHER, 3/8
16	1603263SM	1	BAR, Roller
17	2172622SM	4	BOLT, Shoulder, 3/8-16 X 1.34, 1/2 Shoulder
18	1924361SM	2	WASHER, Plain, 1/2
19	1919439SM	2	NUT, Esna, Lock, 3/8-16
20	1960020SM	6	WASHER, Plain, 21/32
21	1918458SM	2	PIN, Cotter, 3/16 x 1
22	1602946SM	4	SPACER, .66 ID
23	1685217	1	ARM ASSY., Mower (42" only)
23	1668718	1	ARM ASSY., Mower (48" only)
24	1668814SM	1	SHAFT ASSY., Roller (42" only)
24	1686684SM	1	SHAFT ASSY., Roller (48" only)
25	1668828SM	1	QUADRANT ASSY. (Incl. Ref. Nos. 26, 27 & 28)
26	2810542SM	3	RIVET
27	1663222SM	1	SPRING
28	-----	1	QUADRANT (See Ref. No. 25)
29	1918447SM	2	PIN, Cotter, 3/32 x 3/4
30	2108157SM	2	CLEVIS, Adj.
31	1665417SM	2	ROD, Adj.
32	1931348SM	3	BOLT, Carriage 3/8-16 x 3/4
33	1931333SM	4	BOLT, Carriage, 5/16-18 x 3/4 (Qty. 6 on 48")
34	2172914SM	2	SPACER
35	1668513SM	8	ROLLER, .652 ID, 2.50 OD, 4.10 LG
36	1920161SM	1	NUT-HEX JAM 5/16-18
37	2172141SM	1	PIVOT
38	1673665SM	1	ROD, Lift (Short)
39	2176012SM	1	CLIP, Pin, Safety
40	1960074SM	2	CLIP, HAIR PIN .093DI
41	1919326SM	1	WASHER, 5/16

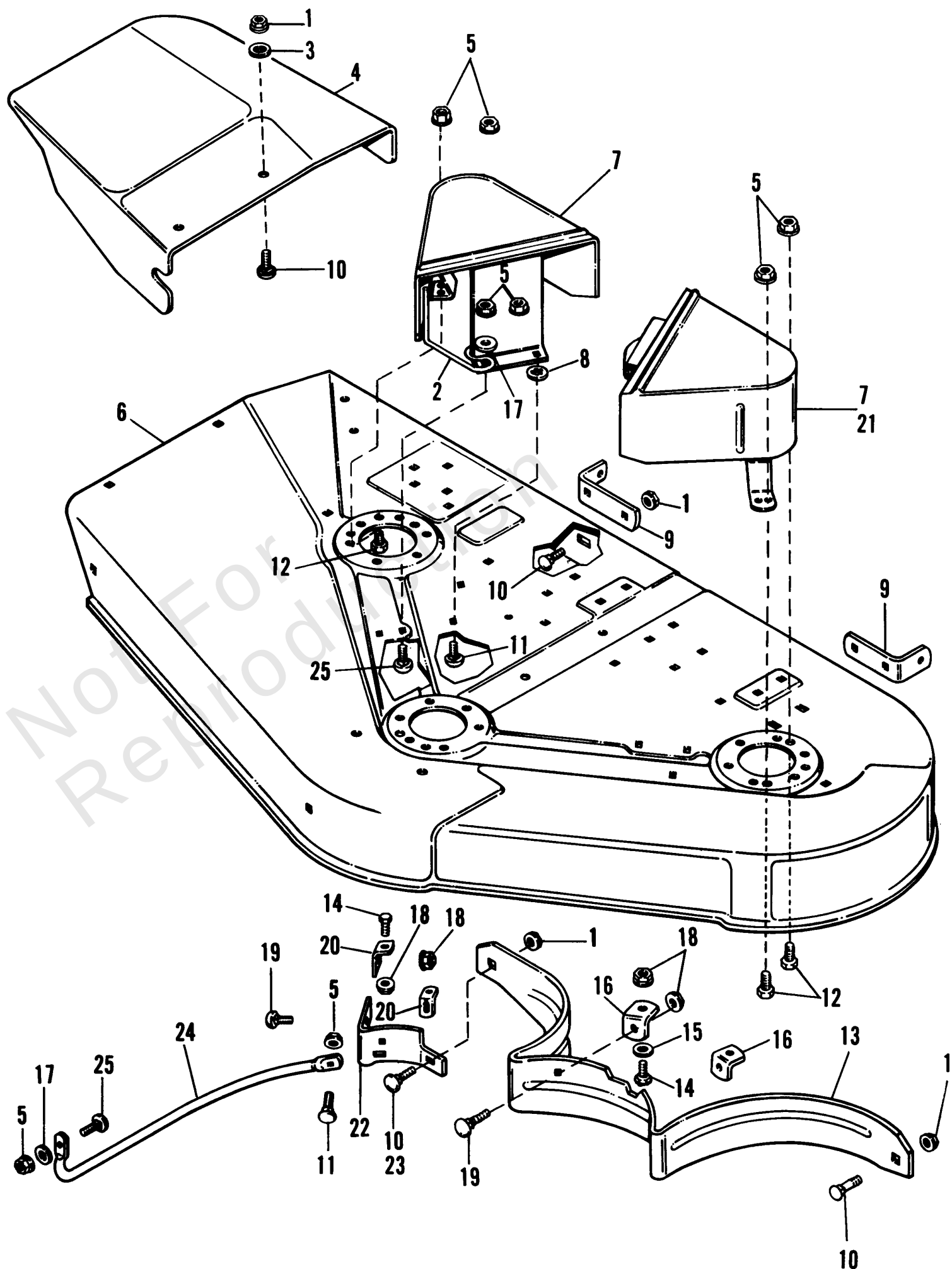
Footnotes:

Note:* Not a servicable part.

42" & 48" Mower Housing Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



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

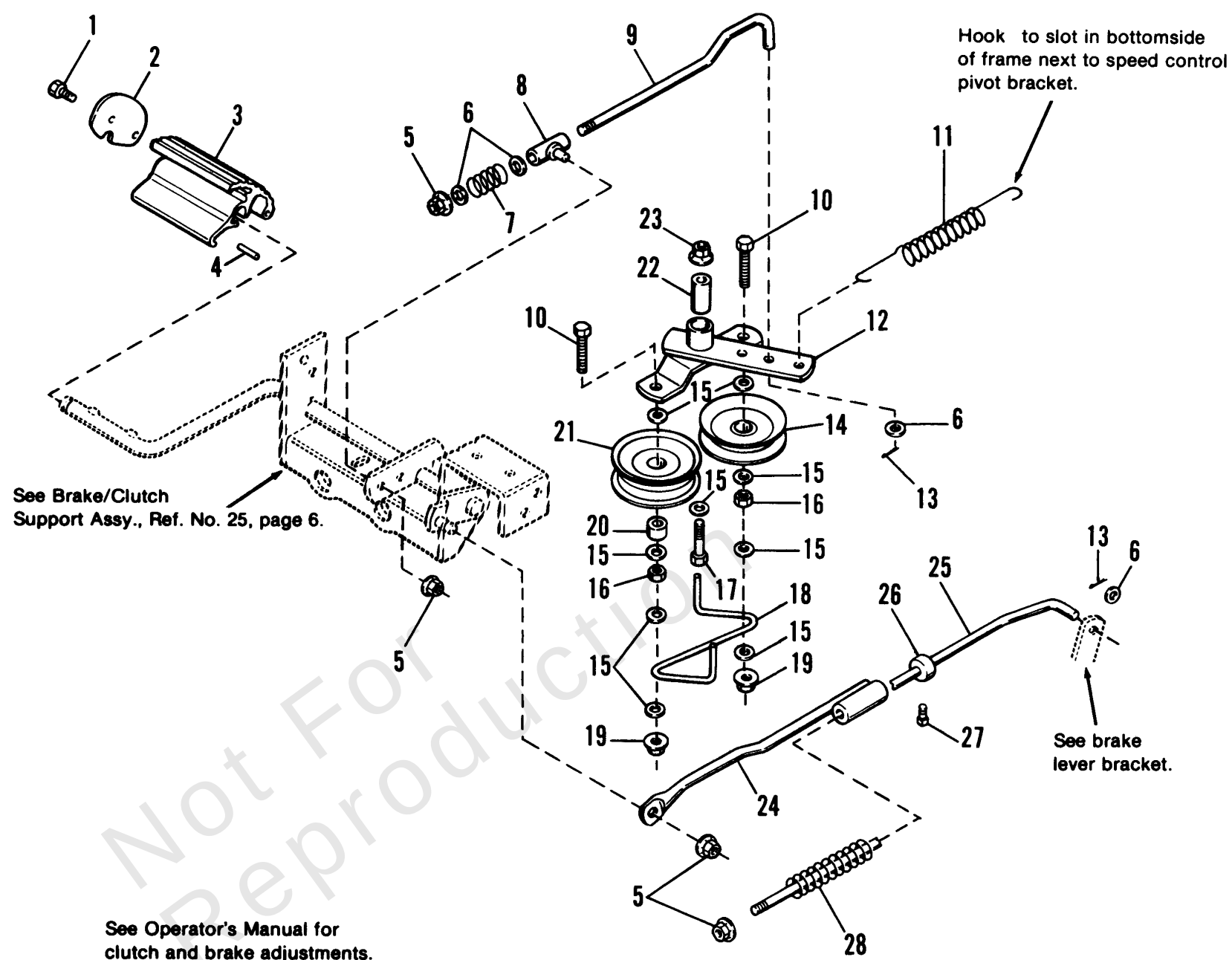
42" & 48" Mower Housing Group

REF NO	PART NO	QTY	DESCRIPTION
1	1931211SM	8	NUT, Hex, Flange Whizlock 3/8-16 (Qty. 7 used on 48")
2	1666888SM	1	STOP, Belt
3	1924940SM	2	WASHER, Plain
4	1656049ASM	1	DEFLECTOR
5	1931277SM	10	NUT, Hex, Flange Whizlock, 5/16-18 (Qty. 8 used on 42")
6	1685156SM	1	42" ROTARY MOWER HOUSING
6	1685154SM	1	48" ROTARY MOWER HOUSING
7	1702214SM	2	ARBOR COVER ASSY.(Qty. 1 used on 42")
8	2833988	4	PUSHNUT, 5/16 (Qty. 2 used on 42")
9	1603264SM	2	BRACKET, Roller Support
10	1931348SM	8	BOLT, Carriage 3/8-16 x 3/4
11	1931333SM	4	BOLT, Carriage, 5/16-18 x 3/4 (Qty. 2 used on 42")
12	703570	4	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
13	1608135SM	1	BAFFLE-42"
13	1608327ASM	1	BAFFLE-48"
14	1921959SM	4	CAPSCREW, Hex, 1/4-20 x 3/4
15	1921319SM	4	WASHER, 1/4
16	1608331SM	2	CLIP, Baffle
17	1919381SM	2	WASHER, 11/32 x 1
18	1960294SM	8	NUT, Hex, Flange Whiz, 1/4-20
19	1960252SM	4	BOLT-RD HD SH SQ NK 1
20	2108186SM	2	CLIP GUARD 8 BAFFLE
21	1702213SM	1	ARBOR COVER ASSY. (42" only)
22	1665709ASM	1	BAFFLE, Discharge
23	1931350SM	1	BOLT, RD HD SH SQ NK
24	1665562SM	1	GUARD, Mower Discharge
25	1931335SM	2	BOLT, Carriage, Short Neck, 5/16-18 x 1

Brake & Clutch Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



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

Brake & Clutch Group

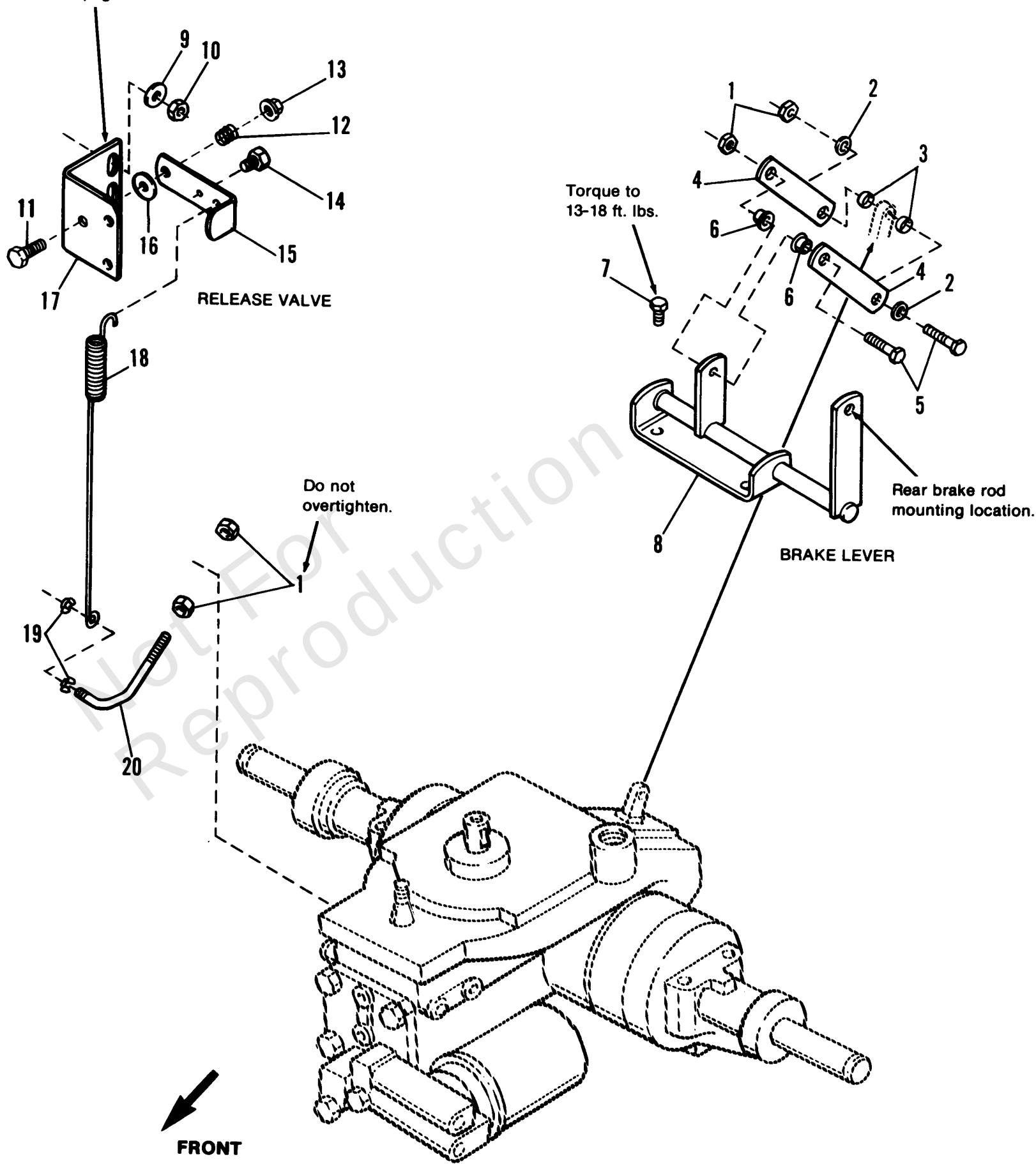
REF NO	PART NO	QTY	DESCRIPTION
1	1927429SM	2	SCREW, Taptite, 1/4-20 x 5/8
2	1656854	1	PLATE, End
3	1656852SM	1	PEDAL, Brake
4	1659907SM	1	DAMPER, Rubber
5	1935048SM	4	NUT, Flange Lock, 5/16-18
6	1919326SM	4	WASHER, 5/16
7	2152006SM	1	SPRING, Compression
8	2164094SM	1	GUIDE ASSY., Rod
9	1702401	1	ROD, Clutch
10	1929116	2	CAPSCREW, 3/8-16 x 2, Full Thread
11	2165068SM	1	SPRING, Tension
12	1679857	1	BRACKET ASSY., Idler
13	1918447SM	2	PIN, Cotter
14	2174561SM	1	PULLEY, V-Idler
15	1922755SM	9	WASHER
16	1917421SM	2	NUT, Jam, 3/8-16
17	1923701SM	1	CAPSCREW, 3/8-16 x 2
18	1702403	1	GUIDE, Belt
19	1930645SM	2	NUT, Hex, 3/8-16
20	1666294SM	1	SPACER (For Flat-Side Pulley)
21	2154534SM	1	PULLEY, Flat-Side
22	1679740	1	SPACER
23	1928352SM	1	NUT, Whiz Flange
24	1702387	1	ROD ASSY., Brake
25	1702386	1	ROD, Brake
26	1729276SM	1	COLLAR, Set
27	1928804SM	1	SET SCREW, Sq. Hd.
28	2163103SM	1	SPRING, Compression

Brake Lever Assy. & Release Valve

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773

Mounts to capscrews,
Ref. No. 60, pages 2 & 4.



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

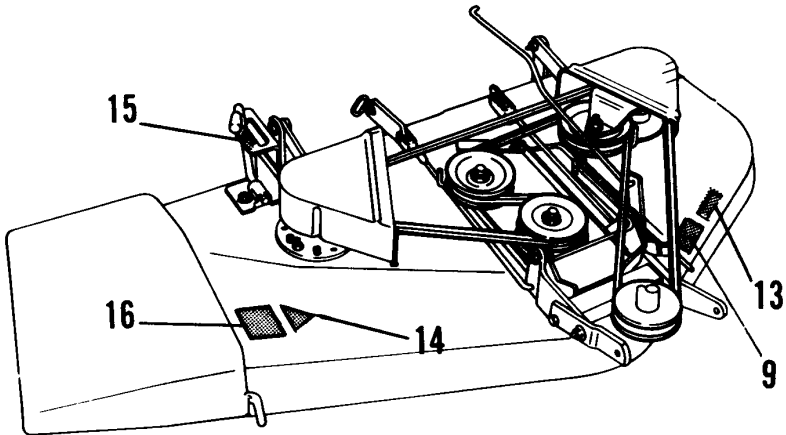
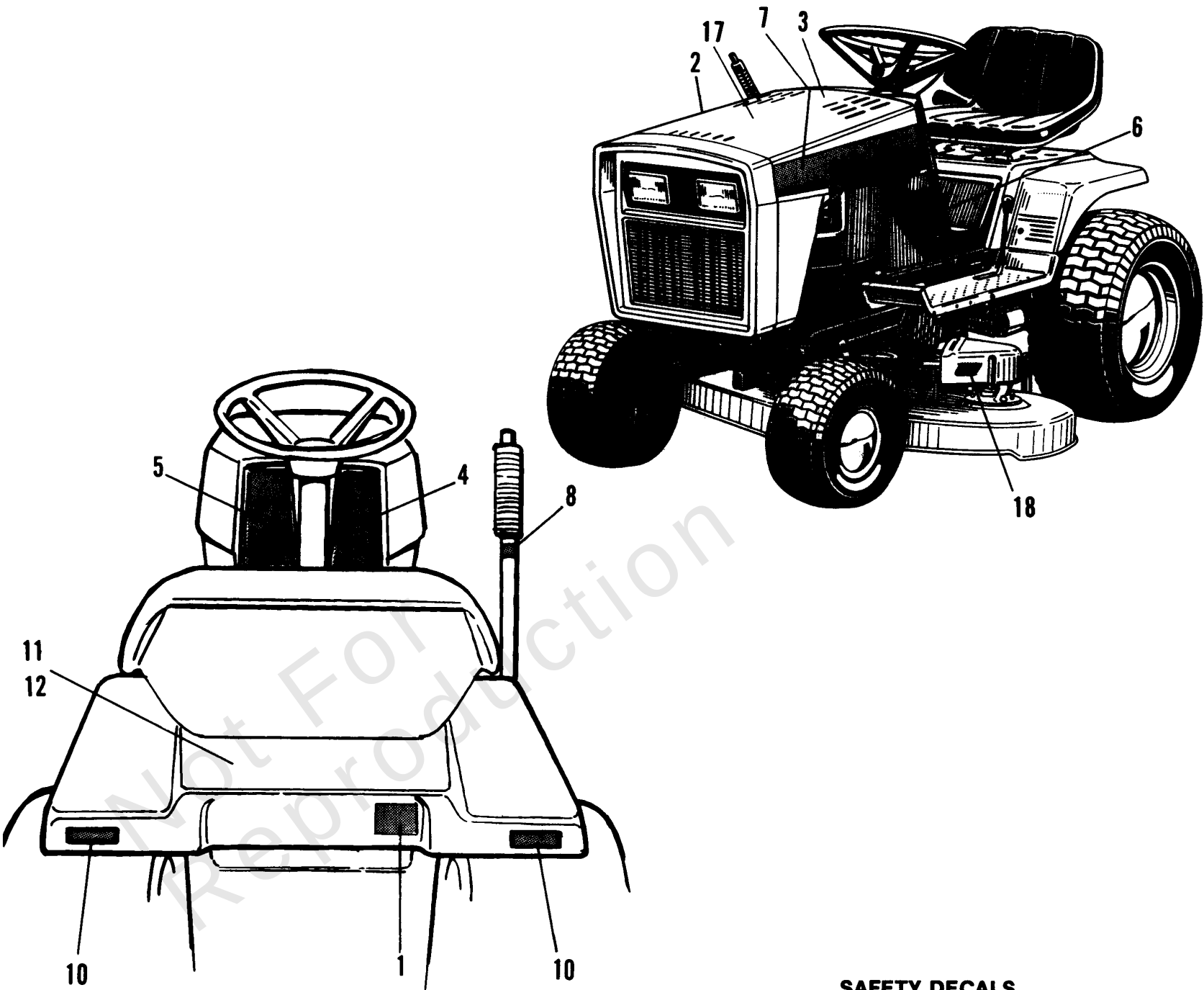
Brake Lever Assy. & Release Valve

REF NO	PART NO	QTY	DESCRIPTION
1	1923358SM	4	NUT, Hex Lock, 1/4-20
2	1921319SM	2	WASHER, Flat
3	1702219SM	2	SPACER
4	1702377	2	BRACKET, Brake Clevis
5	1928745SM	2	CAPSCREW, 1/4-20 x 1-1/4
6	1702220	2	SPACER, Shoulder
7	1925205SM	2	CAPSCREW, 5/16-18 x 5/8
8	1702370	1	BRACKET ASSY., Brake Lever
9	1919326SM	2	WASHER, 5/16
10	1917372SM	2	NUT, Hex, 5/16-18
11	1921961SM	1	CAPSCREW, Hex Hd., 1/4-20 x 1-1/4
12	171651	1	SPRING, Compression
13	1930642SM	1	NUT, Hex, Flange Lock, 1/4-20
14	1929000SM	1	SCREW, Taptite, 1/4-20 x 3/8
15	1702635ASM	1	LEVER, Release Valve
16	1678366SM	1	WASHER, Nylon
17	1702633	1	BRACKET ASSY., Release Valve
18	1702636	1	SPRING, Tension
19	1702651SM	2	KLIP RING
20	1702634	1	LEVER, Hydro Release Valve

Decal Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



SAFETY DECALS

⚠ DANGER ROTATING FAN BLADE 

Ref. No. 11

⚠ CAUTION

PULLEY GROOVE

1/16" CLEARANCE WITH MOWER ENGAGED

BRAKE PAD

ALWAYS CHECK MOWER BRAKE PAD TO V-PULLEY CLEARANCE WHEN REPLACING BELT OR REPAIRING MOWER. BRAKE PADS WILL BE DAMAGED IF BRAKE PAD CONTACTS PULLEY WHEN MOWER IS ENGAGED.

Ref. No. 9

⚠ DANGER

 ROTATING CUTTING BLADE

• DO NOT OPERATE MOWER WITHOUT DEFLECTOR OR ENTIRE GRASS CATCHER IN PLACE.

Ref. No. 16

⚠ DANGER

ROTATING CUTTING BLADE

• DO NOT PUT HANDS OR FEET UNDER MOWER DECK WHILE BLADE IS ROTATING.

Ref. No. 13

Decal Group

REF NO	PART NO	QTY	DESCRIPTION
1	1704269	1	DECAL, Model 16GTH
1	1704270	1	DECAL, Model 17GTH
2	1704267	1	DECAL, Hood Stripe, R.H.
3	1703644	1	DECAL, Drive Belts (1691736)
4	1704111	1	DECAL, Dash, R.H.
5	1704110	1	DECAL, Dash, L.H.
6	1702421	1	DECAL, Shift Pattern
7	1704268	1	DECAL, Hood Stripe, L.H.
8	175216	1	DECAL, Lift Lever
9	1704276SM	1	DECAL-DANGER DO NOT P
10	1701600SM	2	REFLECTOR, Rear
11	1717602SM	1	DECAL, Warning, Fan (Under Seat Deck)
12	1702637	1	DECAL, Release Valve (Under Seat Deck)
13	1704277SM	1	DECAL, Danger
14	-----		DECAL, OPEI
15	1656855	1	DECAL, Mower Height
16	1704279	1	DECAL, Danger
17	1704482	1	DECAL, Touch-Up Paint
18	1704383	1	DECAL, 42"
18	1722793SM	1	DECAL, 48"

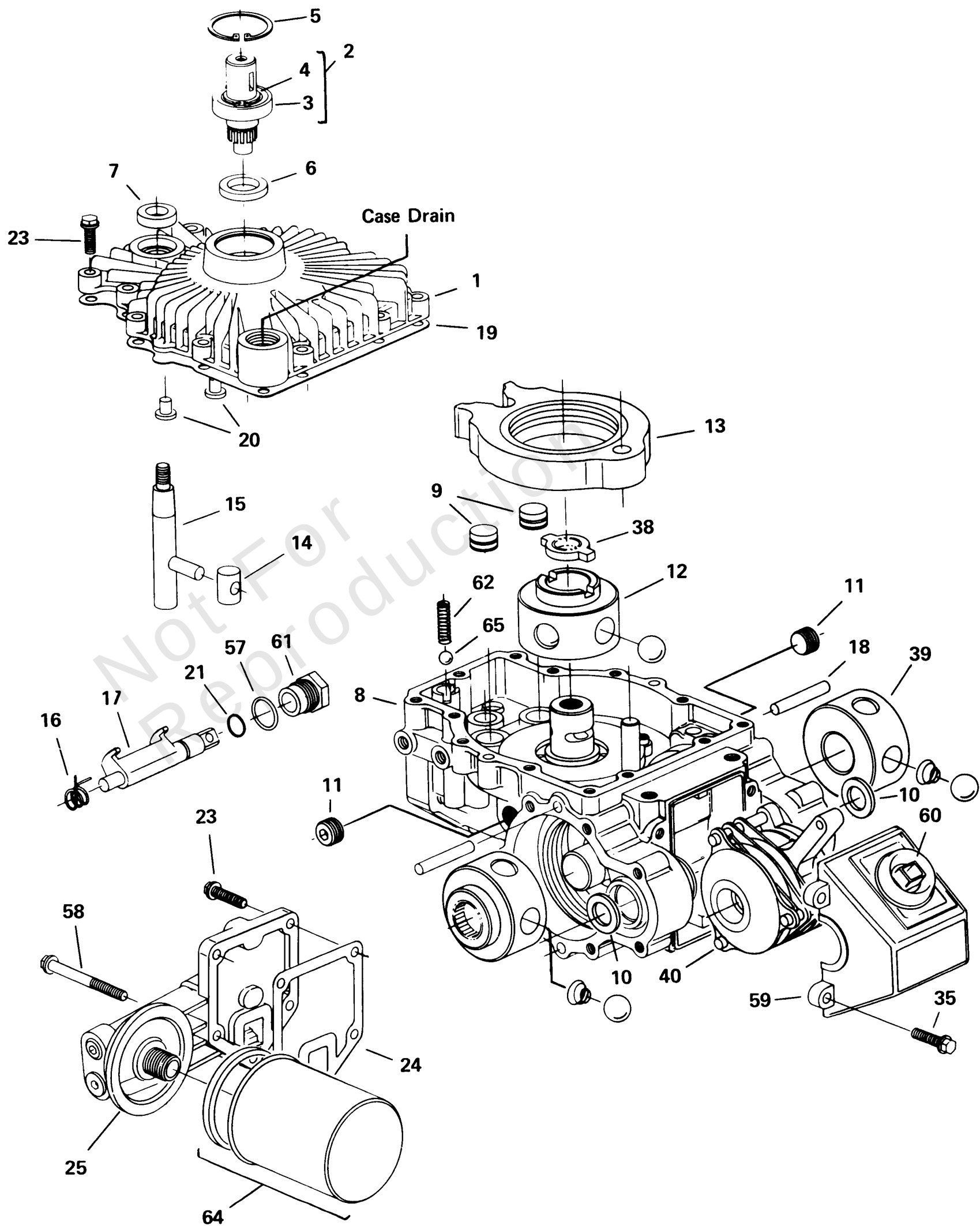
Footnotes:

Note:* Not a servicable part.

Eaton 850 Transaxle - Housing Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



Eaton 850 Transaxle - Housing Group

REF NO	PART NO	QTY	DESCRIPTION
1	1702706SM	1	COVER, Subassembly (S/A)
2	1702247	1	SHAFT, Input, S/A (Incl. 3 & 4)
3	-----	1	BEARING
4	-----	1	RING
5	1702707SM	1	RING, Retaining, Internal
6	1702248SM	1	SEAL, Oil
7	1671300SM	1	SEAL, Oil
8	1702708SM	1	HOUSING, S/A, Clockwise
9	1702709SM	2	PISTON, Quieting, S/A
10	1702249SM	2	SEAL, Lip, Radial
11	1702250	2	PLUG, Socket Pipe
12	1702710SM	1	PUMP, Rotor-Ball Pin, S/A
13	1702711SM	1	CAM RING, S/A
14	1702251SM	1	INSERT
15	1702252SM	1	CONTROL SHAFT, S/A
16	1702253SM	1	SPRING, Dump valve
17	1702254SM	1	BRACKET
18	1702712SM	4	DOWEL
19	1702255SM	1	GASKET, Cover -Used on Mfg. No. 1691824 only.
20	1671285SM	2	BUTTON
21	1671297SM	1	O-RING
23	1702705SM	16	CAPSCREW, Hex, Flange, 1/4-20
24	1702258SM	1	GASKET, Filter Base -Used on Mfg. No. 1691824 only.
25	1702713SM	1	FILTER BASE, S/A
35	1702268SM	4	SCREW, 1/4-20 Self Tap
38	1702714SM	1	DRIVE
39	1702715SM	2	MOTOR ROTOR-BALL, A & B S/A, 15T
40	1702271SM	1	BRAKE, Parking, Assembly
57	1702284SM	2	O-RING, Fitting
58	1702285SM	2	SCREW, 1/4-20 Hex Flange
59	1702286SM	1	COVER, Parking Brake
60	1702287SM	1	BOOT, Dust
61	1702720SM	1	FITTING
62	1702721SM	1	SPRING, Relief Valve
64	1702282SM	1	FILTER, Oil (w/Seal), Special-10 Micron
65	1702281SM	1	BALL, Grade 200
65	1702280SM	1	GASKET OVERHALL KIT (Incl. Ref. Nos. 19, 22 & 24) -Used on Mfg. No. 1691824 only.

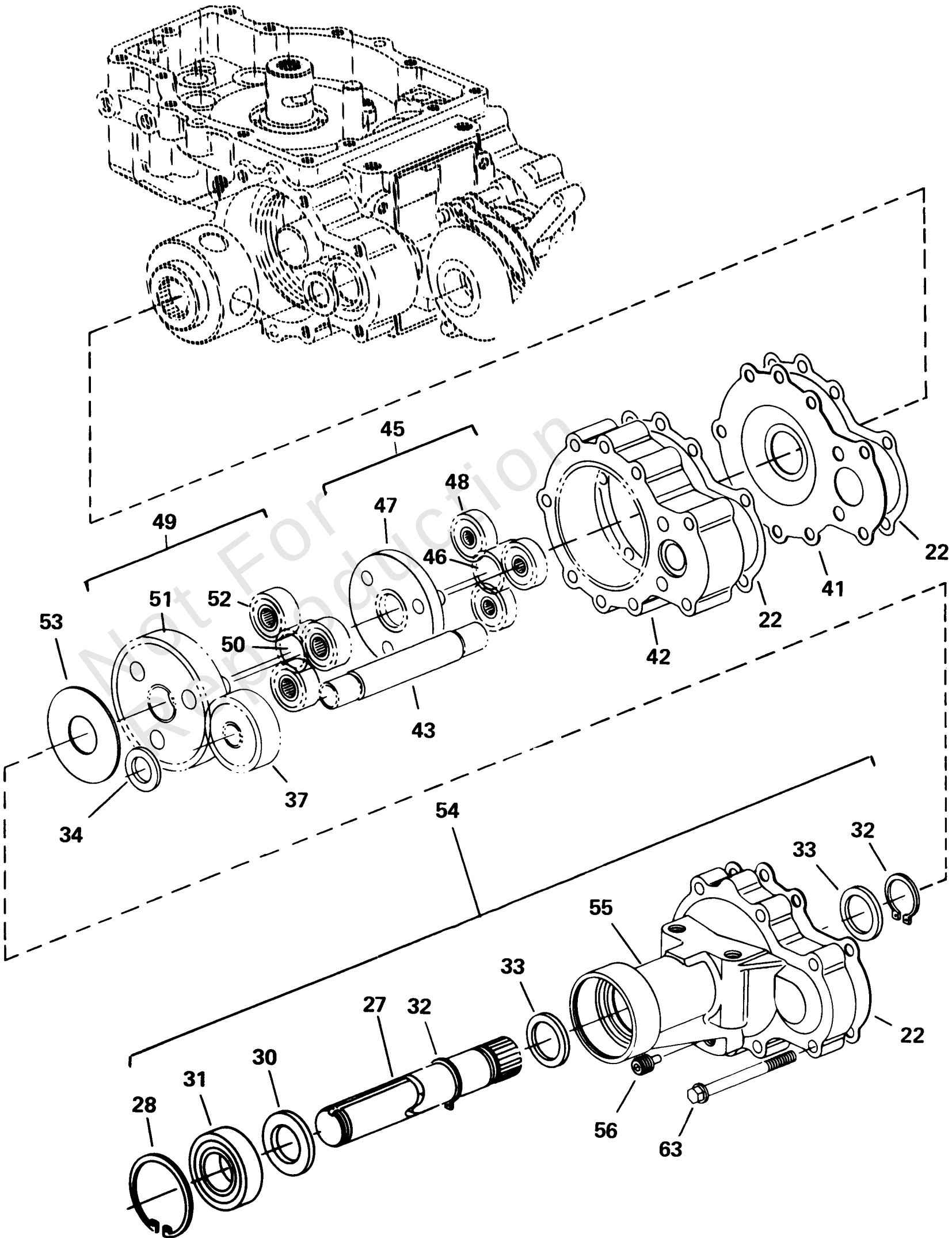
Footnotes:

Note:* Not a servicable part.
Note:* Not a serviceable part.

Eaton 850 Transaxle - Left Axle Subassembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



Eaton 850 Transaxle - Left Axle Subassembly

REF NO	PART NO	QTY	DESCRIPTION
22	1702257SM	3	GASKET, Axle Housing -Used on Mfg. No. 1691824 only.
27	1702260SM	1	SHAFT, Axle
28	1702261SM	1	RETAINING RING, Internal
30	1702263SM	1	LIP SEAL, Radial
31	1702264SM	1	BEARING, Ball
32	2832577SM	2	RING, Retainer
33	1702266SM	2	WASHER, Thrust
34	1702267	1	SPACER
37	1702270SM	1	LOCK GEAR, Differential
41	1702272	1	PLATE, Wear
42	1702716SM	1	RING GEAR, A & B S/A, 57T
43	1702717	1	BRAKE SHAFT-A
45	1702273SM	1	PLANETARY GEAR, First, Subassembly (Incl. Ref. Nos. 46, 47 & 48)
46	-----	1	SUN GEAR, First, 15T (See Ref. No. 45)
47	-----	1	PRIMARY CARRIER, A & B S/A, 15T (See Ref. No. 45)
48	-----	3	PLANETARY GEAR, First, A & B S/A, 21T (See Ref. No. 45)
49	1702274	1	PLANETARY GEAR, Second, A & B S/A (Incl. Ref. Nos. 50, 51 & 52)
50	-----	1	SUN GEAR, Second, 15T (See Ref. No. 49)
51	-----	1	SECONDARY CARRIER, A & B S/A (See Ref. No. 49)
52	-----	3	PLANETARY GEAR, A & B S/A, Second, 21T (See Ref. No. 49)
53	1702719	1	WASHER, Thrust
54	1702275SM	1	AXLE HOUSING, S/A-A
55	1702275SM	1	HOUSING, Axle-A
56	1702283SM	1	PLUG, Magnetic
63	1960340SM	7	CAPSCREW, 1/4-20 Hex Flange x 2-3/4
63	1702280SM	1	Gasket Overhaul Kit (Incl. Ref. Nos. 19, 22 & 24) -Used on Mfg. No. 1691824 only.

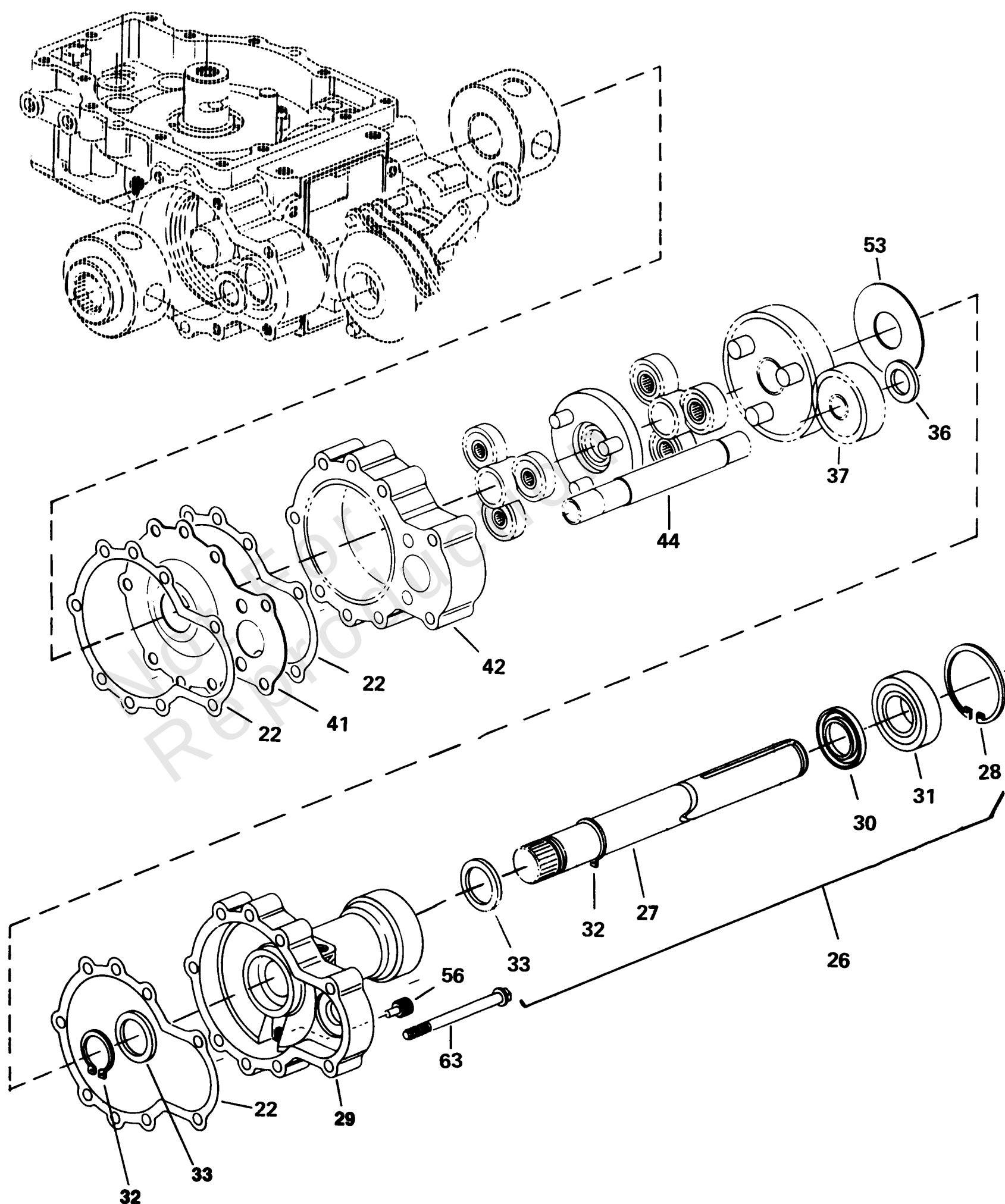
Footnotes:

Note:* Not serviced seperately, order complete Planetary Gear.

Eaton 850 Transaxle - Right Axle Subassembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



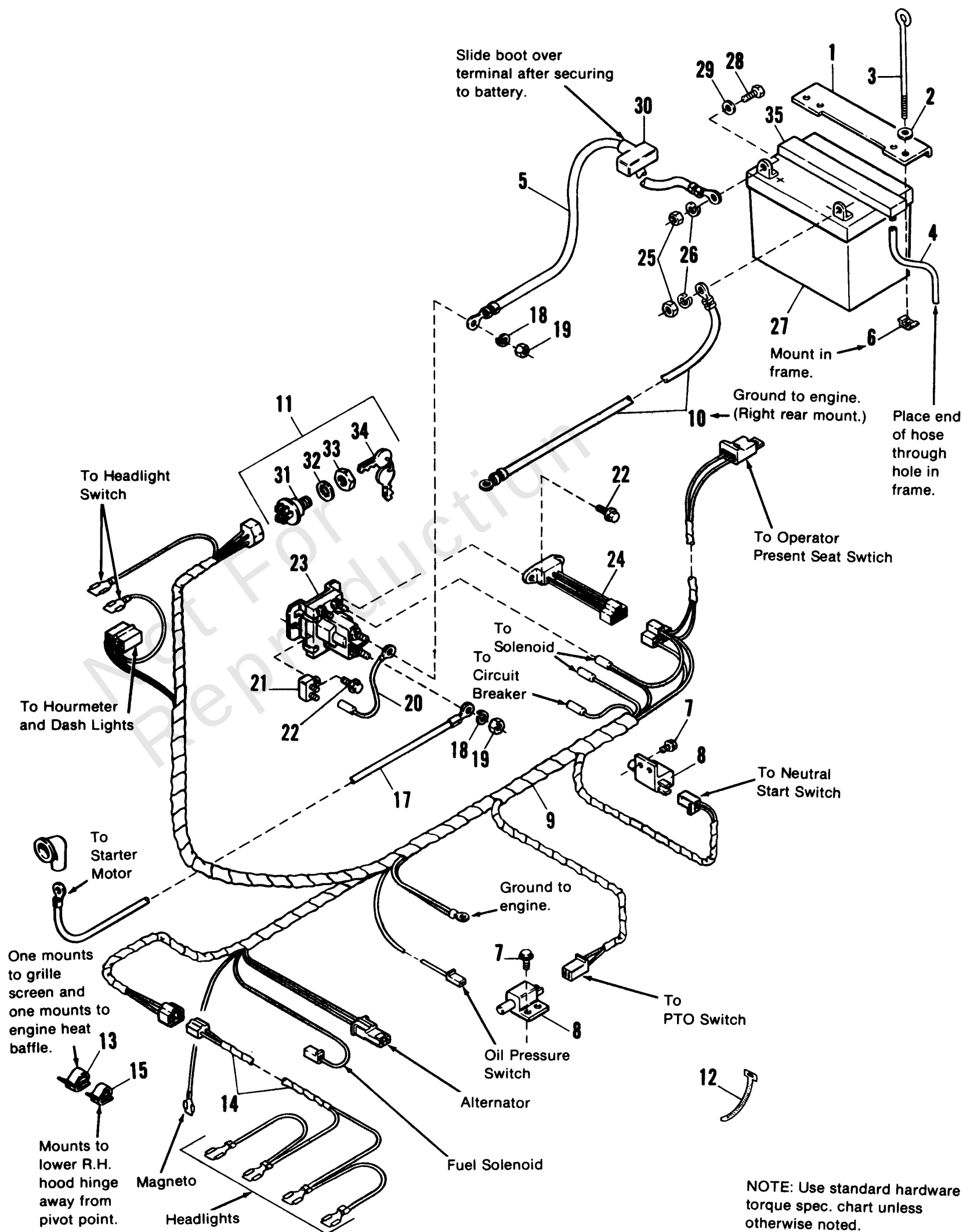
Eaton 850 Transaxle - Right Axle Subassembly

REF NO	PART NO	QTY	DESCRIPTION
22	1702257SM	3	GASKET, Axle Housing -Used on Mfg. No. 1691824 only.
26	1702259SM	1	AXLE HOUSING, S/A-B
27	1702260SM	1	SHAFT, Axle
28	1702261SM	1	RETAINING RING, Internal
29	1702262SM	1	HOUSING, Axle-B
30	1702263SM	1	LIP SEAL, Radial
31	1702264SM	1	BEARING, Ball
32	2832577SM	2	RING, Retainer
33	1702266SM	2	WASHER, Thrust
36	1702269	1	SPACER
37	1742270	1	LOCK GEAR, Differential
41	1702272	1	PLATE, Wear
42	1702716SM	1	RING GEAR, A & B S/A, 57T
44	1702718SM	1	BRAKE SHAFT-B
53	1702719	1	WASHER, Thrust
56	1702283SM	1	PLUG, Magnetic
63	1960340SM	7	CAPSCREW, 1/4-20 Hex Flange x 2-3/4
63	1702280SM	1	GASKET OVERHAUL KIT (Incl. Ref. Nos. 19, 22 & 24) -Used on Mfg. No. 1691824 only.

Electrical Group (16HP)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



Electrical Group (16HP)

REF NO	PART NO	QTY	DESCRIPTION
1	1718596	1	HOLD DOWN, Battery
2	1921319SM	2	WASHER, 1/4
3	1700472SM	2	ROD, Battery Hold Down
4	1704583SM	1	HOSE, Drain, Battery
5	1603618SM	1	CABLE, Ground
6	1704349SM	2	NUT, Retainer, 1/4-20
7	1929477SM	4	SCREW, Taptite, #10-24 x 1/2
8	1701521SM	2	SWITCH, PTO and Neutral
9	1703958	1	HARNESS, Wiring
10	1703484SM	1	CABLE, Ground to Engine
11	1686734SM	1	IGNITION SWITCH
12	2832747SM	3	TIE, Cable
13	2830222	2	CLIP, Wire
14	1674358SM	1	WIRE ASSY., Headlights
15	2165073SM	1	CLIP, Wire
16	2122023SM	1	COVER, Terminal
17	1701522SM	1	CABLE
18	1917356SM	2	LOCKWASHER, 5/16
19	2820263SM	2	NUT, Hex, 5/16-24
20	1665237SM	1	WIRE ASSY.
21	1665238SM	1	BREAKER-CIRCUIT
22	2827429	2	SCREW, Taptite, 1/4-20 x 5/8
23	1686981SM	1	SOLENOID
24	1685466SM	1	MODULE, DSI Interlock
25	2816622SM	2	NUT, Hex, 1/4-20
26	2816964SM	2	LOCKWASHER, 1/4
27	1685215SM	1	BATTERY,12V
28	1923341SM	2	CAPSCREW, Hex Hd., 1/4-20 x 3/4
29	2821319SM	2	WASHER, 1/4 I.D.
30	1677296SM	1	BOOT,INSULATOR BATTER
31	-----	1	SWITCH (See Ref. No. 35)
32	1960547SM	1	LOCKWASHER-INTERNAL
33	2122234SM	1	NUT, Hex, 5/8-32
34	1717163SM	1	KEY-IGNITION INDAK
35	1704581	1	VENT, Battery

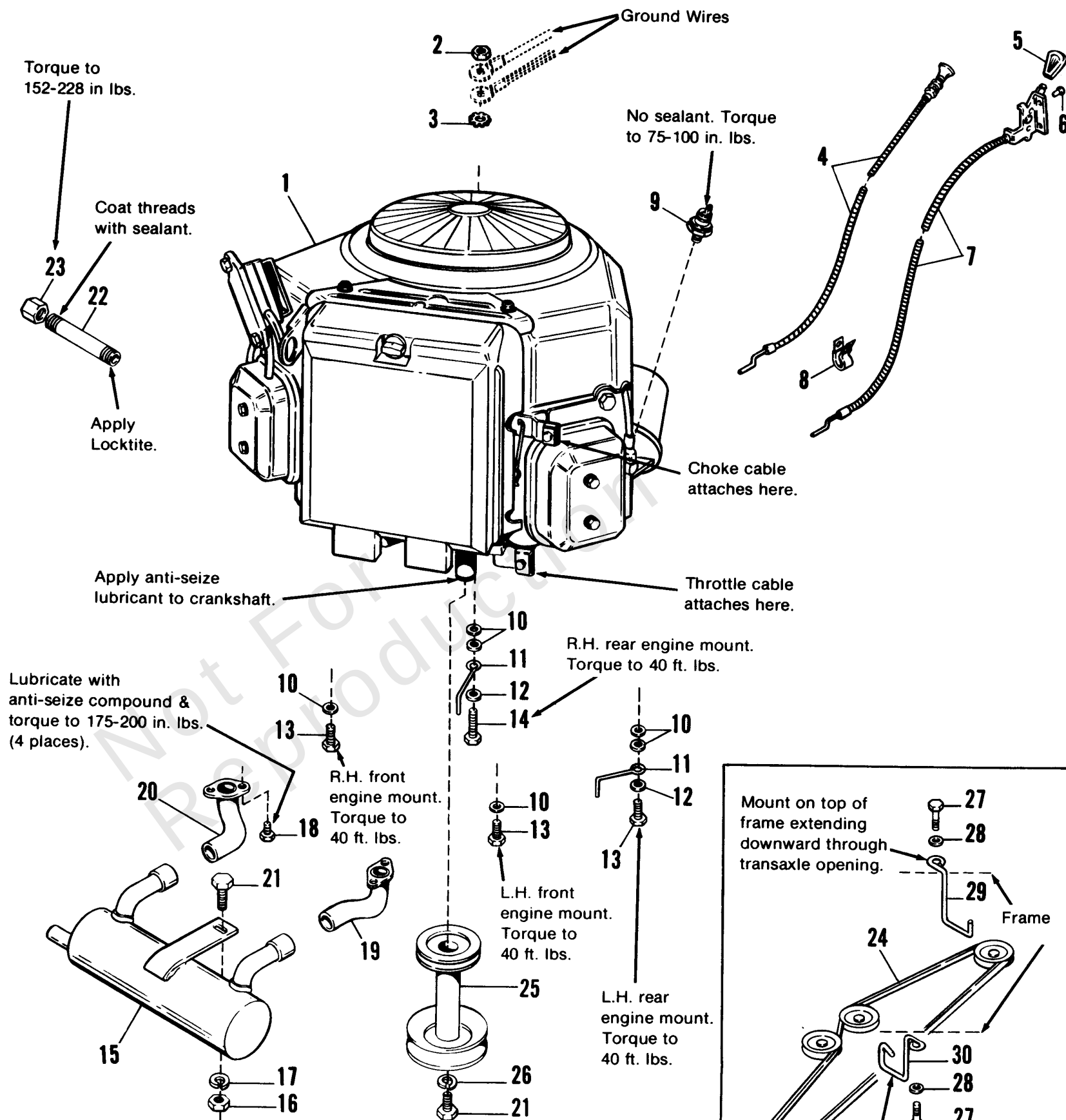
Footnotes:

Note:* Not serviced separately, order complete switch assembly.

Engine Group (16HP)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



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

BELT & BELT GUIDES

Engine Group (16HP)

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	ENGINE, 16 HP, Vanguard (Briggs & Stratton)
2	960251	1	NUT, Jam, Centerlock, 3/8-16
3	2820427SM	1	LOCKWASHER, Ext. Tooth, 3/8
4	1703955	1	CABLE, Choke
5	1656099SM	1	KNOB, Throttle
6	2860241	2	RIVET, Pop (1/4)
7	1665516SM	1	CONTROL ASSY., Throttle
8	2826917	1	CLIP, Wire (Throttle)
9	1703956SM	1	SWITCH,OIL PRESSURE,
10	1924356SM	6	WASHER, 3/8
11	1669640	2	BELT STOP
12	1924940SM	2	WASHER, 3/8
13	1930598SM	3	CAPSCREW, Taptite, 3/8-16 x 1-1/2
14	2860361SM	1	CAPSCREW, TAPTITE, 3/8-16 x 2
15	1703235SM	1	MUFFLER
16	1917372SM	1	NUT, 5/16-18
17	1917356SM	1	LOCKWASHER, 5/16
18	1921332SM	1	CAPSCREW, 5/16-18 x 3/4
19	1703237	1	EXHAUST PIPE, L.H.
20	1703236	1	EXHAUST PIPE, R.H.
21	1928038SM	1	CAPSCREW, HEX, 7/16-20 x 1-1/4
22	1670680	1	DRAIN, Oil
23	1667346SM	1	CAP, Pipe, 3/8
24	1656960SM	1	BELT, "V"
25	1700782SM	1	PULLEY ASSY., Engine
26	1918199SM	1	LOCKWASHER, 7/16
27	1930601SM	2	SCREW, Taptite, 5/16-18 x 5/8
28	1919326SM	2	WASHER, 5/16
29	1702402	1	GUIDE, Belt
30	1701294SM	1	GUIDE, Belt

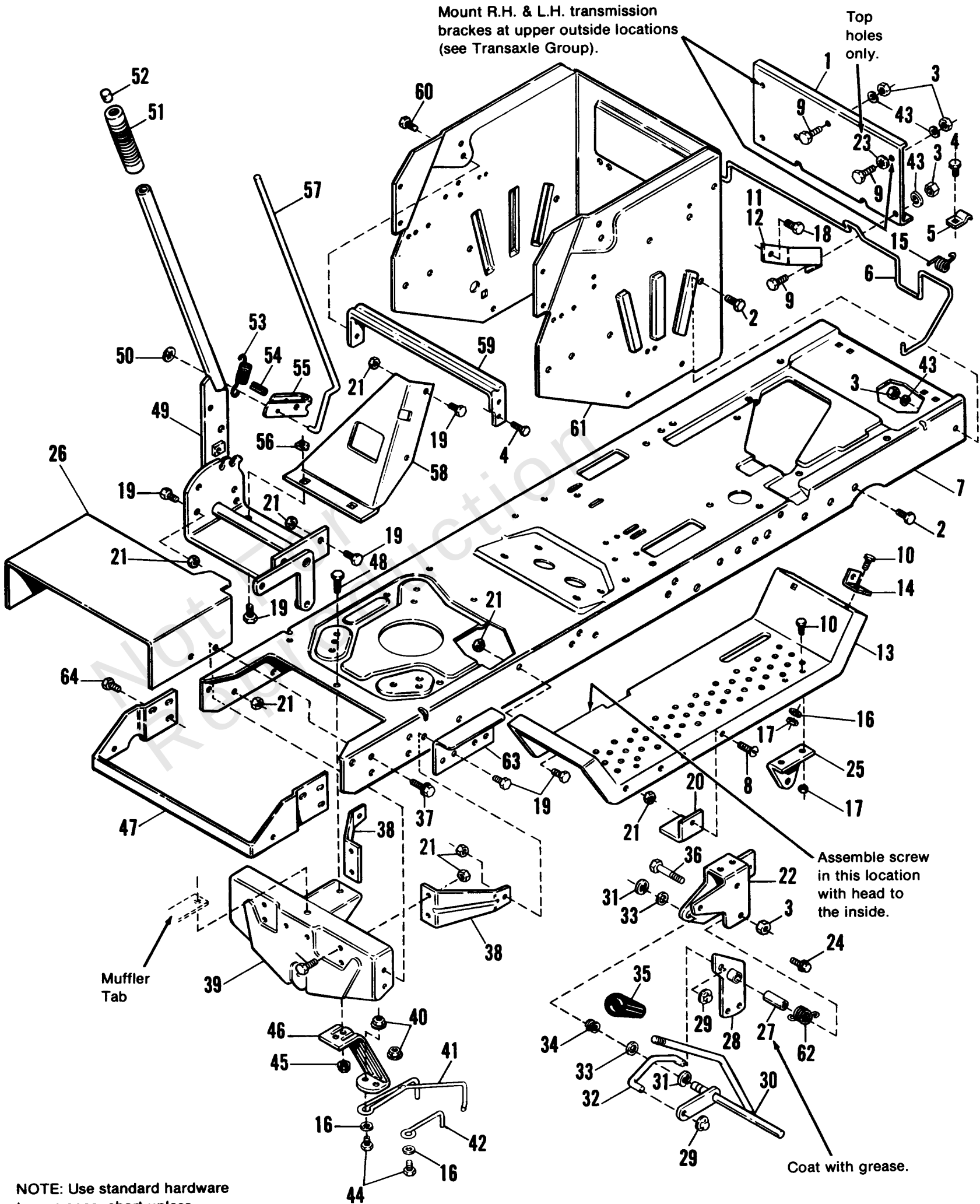
Footnotes:

Note:* See your local Briggs & Stratton distributor for parts and service.

Frame Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



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

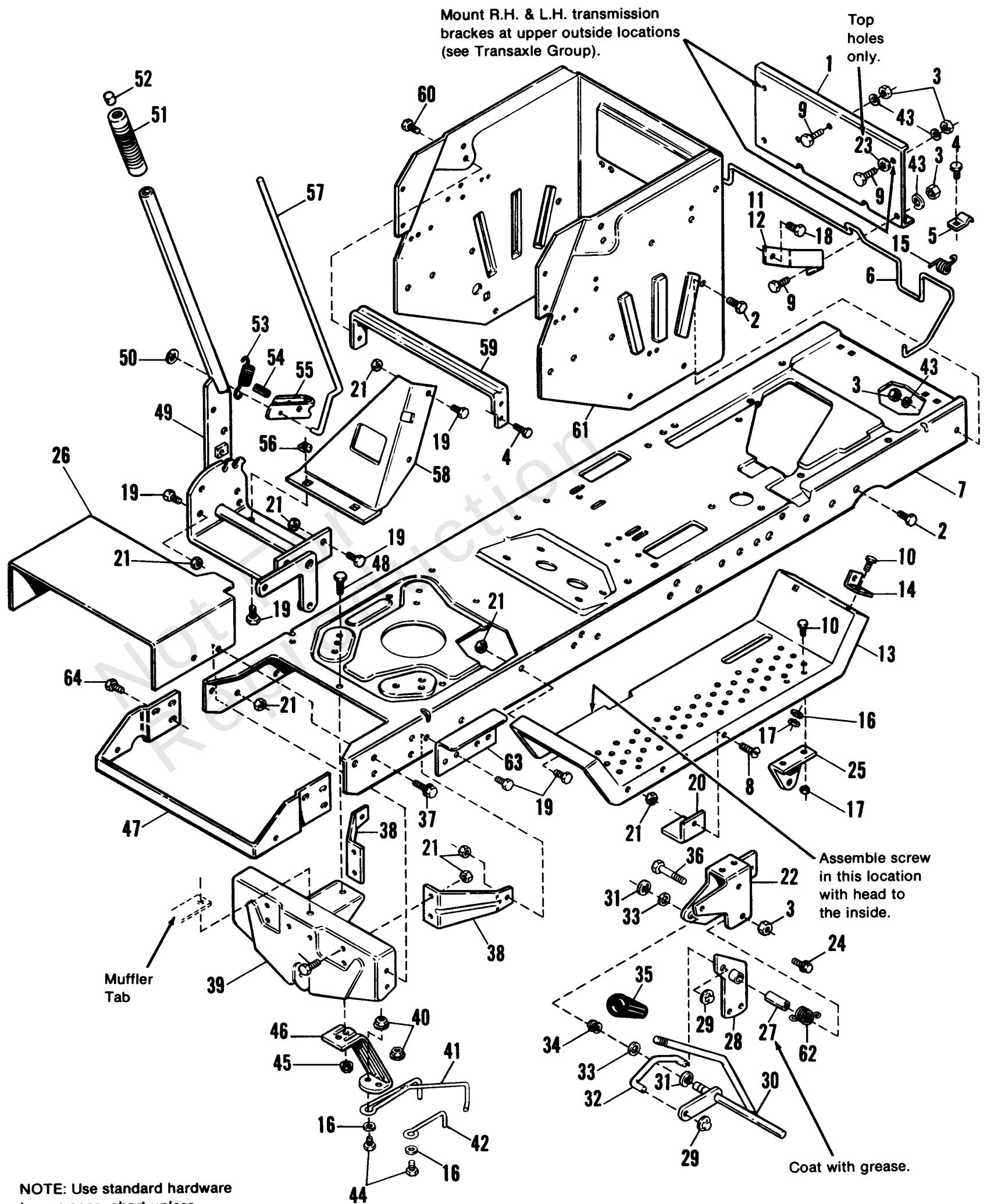
Frame Group

REF NO	PART NO	QTY	DESCRIPTION
1	1679802	1	DRAWBAR
2	1921210SM	8	CAPSCREW, 3/8-16 x 1
3	1916950SM	10	NUT, Hex, 3/8-16
4	1924856SM	4	SCREW, Taptite, 5/16-18 x 1/2
5	1678388	2	CLIP
6	1701268	1	ROD, Seat Latch
7	1702626	1	FRAME
8	1918249SM	2	SCREW, 5/16-18 X 3/4, Slotted Truss Head, Blk
9	1920415SM	3	CAPSCREW, 3/8-16 x 1-1/4
10	1921959SM	3	CAPSCREW, 1/4-20 x 5/8
11	1701124	1	BRACE, Drawbar, L.H.
12	1701125	1	BRACE, Drawbar, R.H.
13	1679938	2	FOOTREST
14	1700670	1	BRACKET, Seat Latch
15	1701314	1	SPRING, Torsion
16	1921319SM	3	WASHER, Plain, 1/4 Std.
17	1916622SM	3	NUT, Hex, 1/4-20
18	1923683SM	2	SCREW, Taptite, 3/8-16 x 3/4
19	1921332SM	21	CAPSCREW, 5/16-18 x 3/4
20	1669168	2	UP-STOP, Mower
21	1917372SM	23	NUT, Hex, 5/16-18 (Qty. 25 on 1691766)
22	1700677	1	BRACKET, PTO Lever Mtg.
23	2831942	3	PUSHNUT
24	1925003SM	2	SCREW, Taptite, 1/4-20 x 1/2
25	1654783	1	SUPPORT, PTO Lever
26	1703803	1	SHIELD, Heat, Lower (1691766 only)
27	1669105SM	1	SPACER
28	1701431	1	ARM ASSY, PTO Link
29	1960093SM	2	NUT, Pal, 3/8
30	1702437	1	LEVER ASSY., PTO
31	2158399SM	2	RING, Snap
32	1701434	1	Link, PTO
33	1960206SM	2	WASHER
34	1669197	1	BUSHING, Split (Nylon)
35	2172038SM	1	KNOB
36	1922130SM	1	CAPSCREW, 3/8-16 x 2-1/4
37	1664847SM	4	SCREW, Taptite, 5/16-18 x 3/4
38	1655076	2	BRACE, Axle Support
39	1663855	1	SUPPORT ASSY., Axle
40	1935048SM	2	NUT, Hex, Flange Lock, 5/16-18
41	1672118SM	1	STOP, Belt
42	1665812SM	1	STOP, Belt
43	1916965SM	13	LOCKWASHER, 3/8
44	1923325SM	2	CAPSCREW, 5/16-18 x 7/8
45	1927557SM	1	NUT, Whiz Flange, 5/16-18
46	1669169	1	SUPPORT, Belt Guide
47	1703957	1	SUPPORT, Hood
48	1930595SM	1	CAPSCREW, Whiz Flange, 5/16-18 x 1-1/4
49	1667295SM	1	LEVER ASSY., Lift
50	2834953	1	NUT, Push On
51	2156209	1	GRIP

Frame Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



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

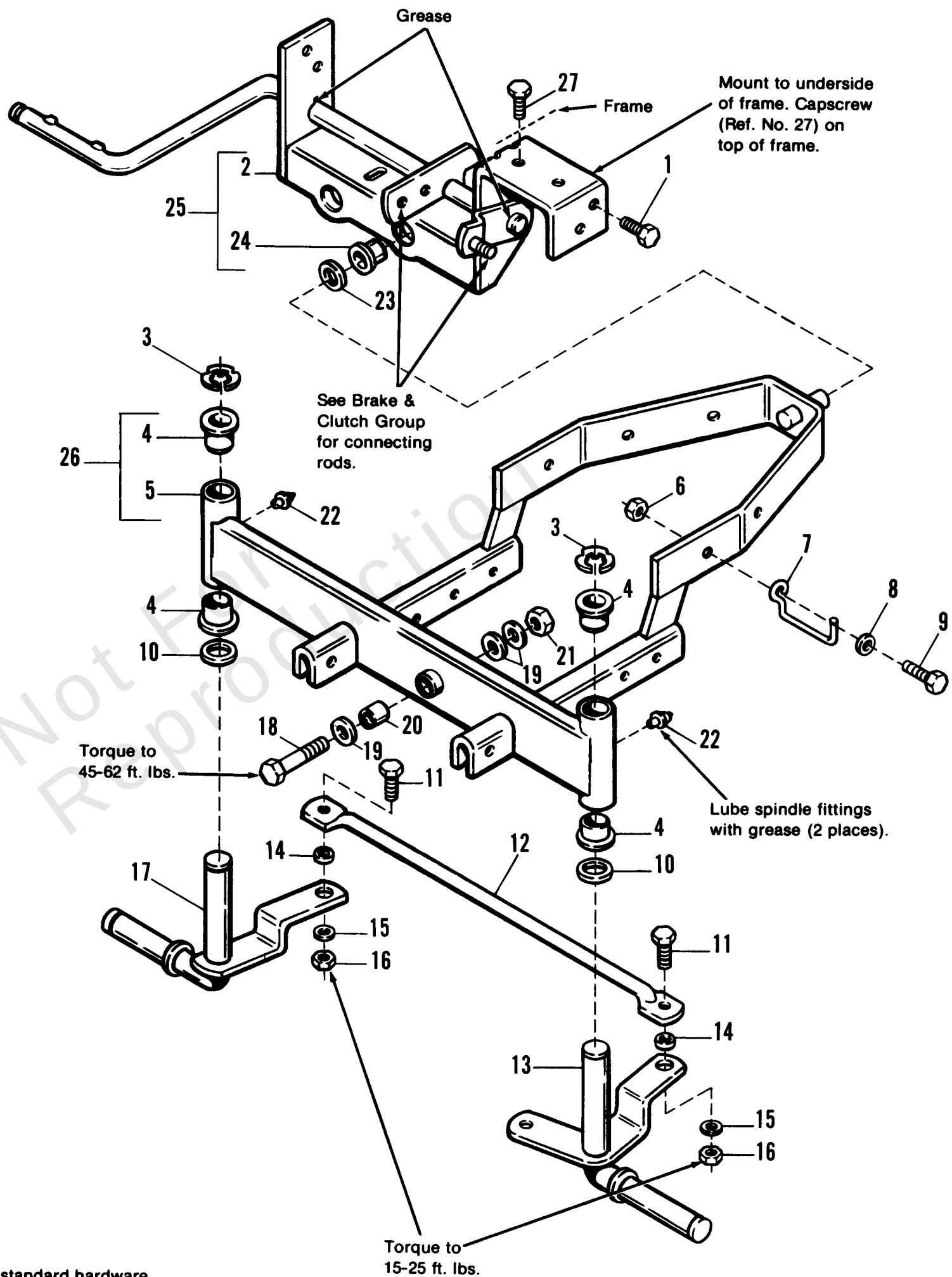
Frame Group

REF NO	PART NO	QTY	DESCRIPTION
52	1650157SM	1	BUTTON
53	1667286SM	1	SPRING
54	1927609SM	1	PIN, Spring, 3/8 x 1
55	1657648SM	1	LATCH, Lift Lever
56	2816159	1	NUT, Speed, 5/16-18
57	1667290SM	1	ROD, Latch
58	1701223	1	BRACE, Lift Lever
59	1654707	1	BRACE, Seat (Wrapper)
60	1960373SM	2	SCREW, Taptite, 5/16-18 x 1
61	1702627	1	SUPPORT, Axle (Wrapper)
62	1701429	1	SPRING, Torsion
63	1703947	2	DEFLECTOR, Air (1691766 only)
64	1930591SM	2	SCREW, Whizlock, 5/16-18 x 3/4

Front Axle Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



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

Front Axle Group

REF NO	PART NO	QTY	DESCRIPTION
1	1664847SM	5	SCREW, Taptite, 5/16-18 x 3/4
2	-----	1	SUPPORT (See Ref. No. 25)
3	1611710SM	2	CLIP, Ring, 3/4
4	2176440SM	4	BUSHING-0.765IDX
5	-----	1	AXLE ASSY., Front (See Ref. No. 26)
6	1917372SM	1	NUT, Hex, 5/16-18
7	1668147SM	1	GUIDE, Drag Link
8	1919326SM	1	WASHER, 5/16
9	703570	1	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
10	1960114SM	2	WASHER
11	1921210SM	2	CAPSCREW, Hex Hd., 3/8-16 x 1
12	1611715SM	1	TIE ROD
13	1677133ASM	1	SPINDLE ASSY., L.H.
14	1611705SM	2	SPACER-0.385IDX0
15	1924940SM	2	WASHER
16	1930645SM	2	NUT, Hex, Lock, 3/8-16
17	1677131ASM	1	SPINDLE ASSY., R.H.
18	1927469SM	1	CAPSCREW, Hex Hd., 1/2-13 x 2-1/4, Gr. 8
19	1926192SM	3	WASHER-0.500(0.56IDX1
20	1668662SM	1	SPACER
21	1930648SM	1	NUT, Hex Lock, 1/2-13
22	2821133SM	2	FITTING, Grease
23	1960020SM	1	WASHER, Plain, 21/32
24	1663114SM	1	BUSHING
25	1702394	1	SUPPORT ASSY., Brake/Clutch (Incl. Ref. Nos. 2 & 24)
26	1611707	1	AXLE ASSY., Front (Incl. Ref. Nos. 4 & 5)
27	1928729SM	1	CAPSCREW, 5/16-18 x 3/8

Footnotes:

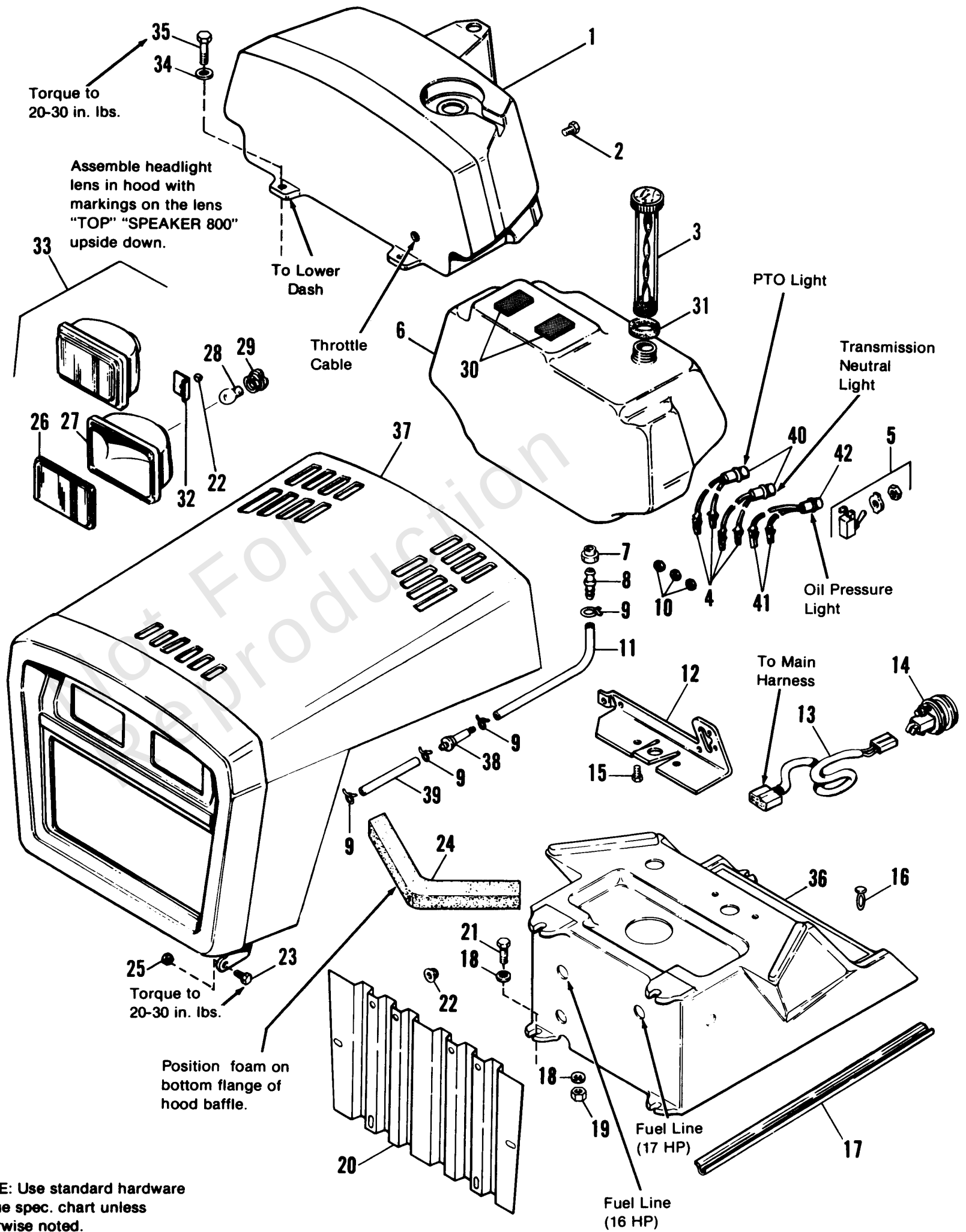
Note:* Not serviced separately, order complete axle assembly.

Note:* Not serviced separately, order complete support assembly.

Hood, Grille & Dash Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



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

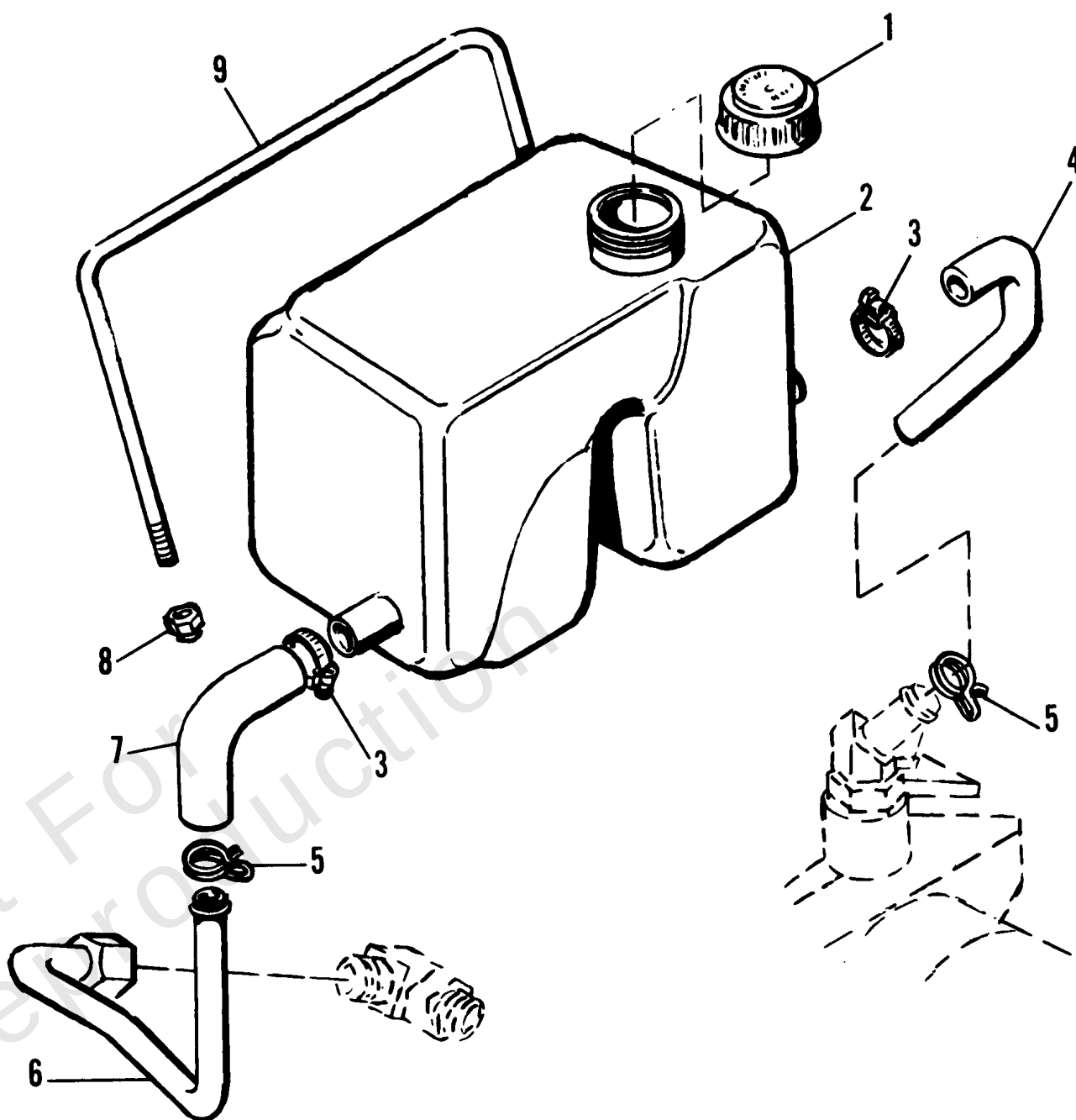
Hood, Grille & Dash Group

REF NO	PART NO	QTY	DESCRIPTION
1	1704045	1	DASHBOARD, Top
2	1960498SM	2	SCREW, Type "AB" 1/4-14 x 5/8
3	2171252SM	1	CAP, Fuel Tank
4	1701502SM	2	LIGHT, Indicator (Incl. Ref. No. 40)
5	2122184SM	1	SWITCH, Toggle (Lights)
6	1687038SM	1	TANK ASSY., Fuel (Incl. Ref. Nos. 7, 8, 9 & 11) -Used on Mfg. No. 1691824 only.
6	1703967	1	TANK ASSY., Fuel (Incl. Ref. Nos. 7, 8, 9 & 11) -Used on Mfg. No. 1691766 only.
7	1654930SM	1	BUSHING
8	1666447SM	1	FITTING
9	2860112SM	2	CLAMP, Hose (Qty. 4 on 1691824)
10	1673013	3	NUT, Push On
11	1718678SM	1	HOSE, Fuel (Cut to 12"HOSE, Fuel, Cut to 12th) -Used on Mfg. No. 1691824 only.
11	1718678SM	1	HOSE, Fuel (Cut to 8-5/8"HOSE, Fuel, Cut to 12th) -Used on Mfg. No. 1691766 only.
12	1665301	1	BRACE, Dashboard
13	1703966	1	WIRE ASSY., Upper
14	1701525SM	1	HOUR METER
15	1925592SM	2	SCREW, Taptite, 1/4-2 x 3/4
16	1667248SM	8	CLIP, Canoe
17	1672123	2	EDGING, Lower Dash
18	1931704SM	6	LOCKWASHER, Dished, 1/4
19	1923358SM	2	LOCKNUT, 1/4-20
20	1702934	1	SCREEN, Grille
21	1933958SM	4	SCREW, Taptite, 1/4-20 x 1
22	1960517SM	10	NUT, Pal, Hex, #10-24
23	1921966SM	2	CAPSCREW, 3/8-16 x 7/8
24	1679660SM	1	SEAL, Hood Baffle
25	1930645SM	2	LOCKNUT, 3/8-16
26	1677368SM	2	LENS, Clear
27	1674363SM	2	HOUSING
28	1677371SM	2	BULB-HEADLIGHT 1
29	1677370SM	2	SOCKET, Bulb
30	2173335	2	PAD
31	1664897SM	1	WASHER, Foam
32	1675932SM	4	CLIP, Headlight Mtg.
33	1674363SM	2	HEADLIGHT ASSY. (Incl. Ref. Nos. 26,27,28 & 29)
34	1921319SM	2	WASHER, 1/4
35	1921961SM	2	SCREW, Hex, 1/4-20 x 1-1/4
36	1707393SM	1	DASHBOARD, Bottom
37	1679976	1	HOOD & GRILLE ASSY. -Used on Mfg. No. 1691824 only.
37	1704065	1	HOOD & GRILLE ASSY. -Used on Mfg. No. 1691766 only.
38	2173206SM	1	FILTER, Fuel -Used on Mfg. No. 1691824 only.
39	1718678SM	1	HOSE, Fuel -Used on Mfg. No. 1691824 only.
40	1703566	2	LENS CAP, Green
41	1703831	1	LIGHT, Indicator (Incl. Ref. No. 42, Qty. 1)
42	1703833	1	LENS CAP, Red

Hydro Reservoir Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



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

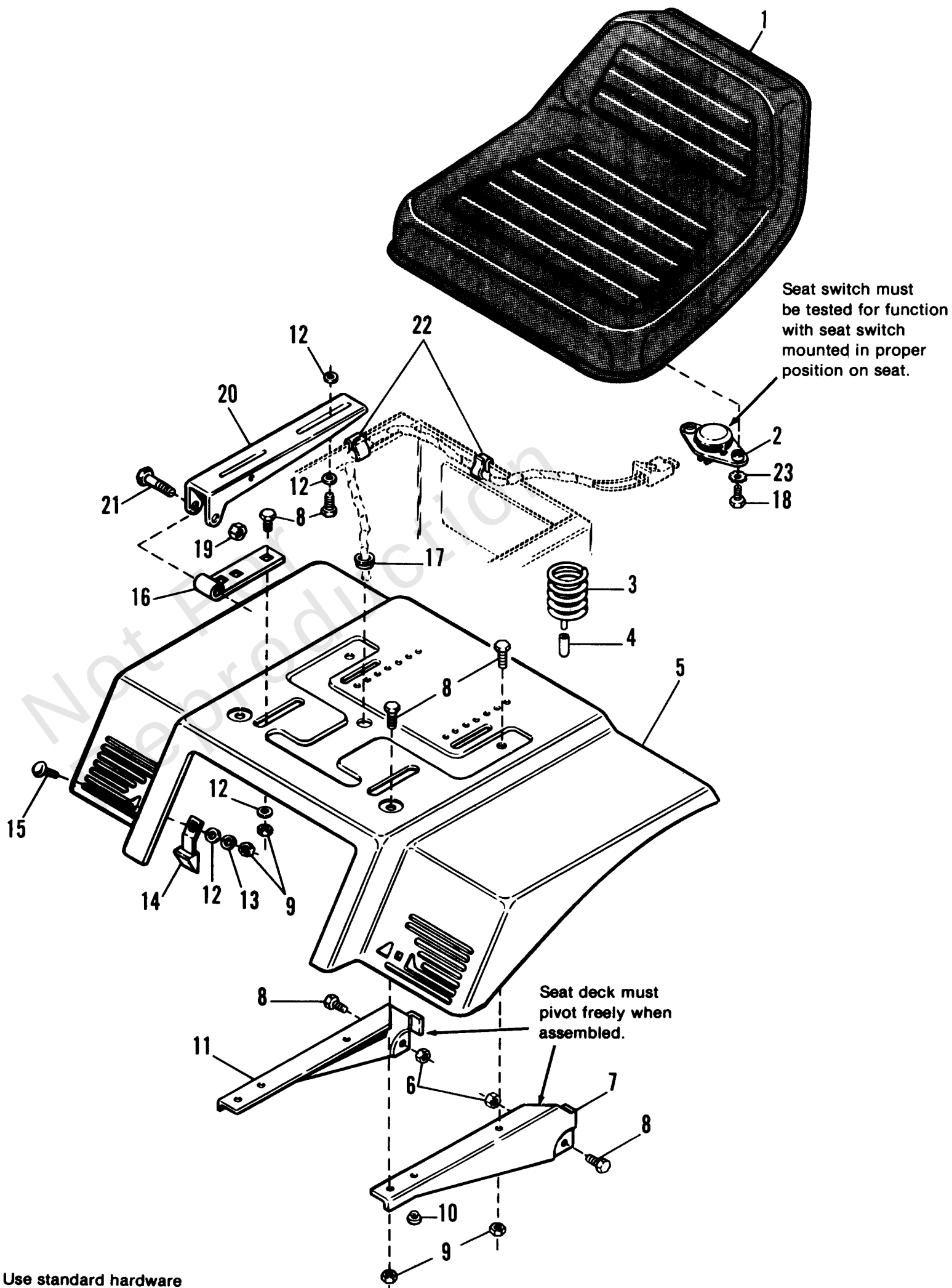
Hydro Reservoir Group

REF NO	PART NO	QTY	DESCRIPTION
1	1676467SM	1	CAP, Reservoir
2	1700847SM	1	RESERVOIR (1 Gal.)
3	2860266SM	2	CLAMP, Hose, #10
4	1700344	1	HOSE, Hydraulic
5	1701236	2	CLAMP, Hose
6	1700920	1	LINE, Hydraulic, Steel
7	1700881	1	HOSE, Hydraulic
8	1920397SM	2	NUT, Hex, 1/4-20
9	1700821	1	ROD, Reservoir Mtg.

Seat & Deck Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



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

Seat & Deck Group

REF NO	PART NO	QTY	DESCRIPTION
1	1686712SM	1	SEAT
2	1703373SM	1	SWITCH, Seat
3	1666690SM	2	SPRING, Seat
4	1666691SM	2	COVER, Wire
5	1702690	1	DECK, Seat
6	1919438SM	2	NUT, Lock, Hex, 5/16-18
7	1701737	1	SUPPORT, Seat. L.H.
8	1921332SM	10	CAPSCREW, Hex Hd., 5/16-18 x 3/4
9	1917372SM	10	NUT, Hex, 5/16-18
10	1701742	2	BUMPER, Plug
11	1701736SM	1	SUPPORT, Seat, R.H.
12	1919326SM	10	WASHER, 5/16
13	1917356SM	2	LOCKWASHER, 5/16
14	1701252SM	2	SEAT LATCH ASSY.
15	1931333SM	2	BOLT, Carriage, 5/16-18 x 3/4
16	1701560SM	2	HINGE, Lower
17	1701229SM	1	BUSHING, Snap
18	1960357	4	SCREW, Rd. Hd., 1/4-20 x 3/4
19	1930645SM	2	NUT, Hex Lock, 3/8-16
20	1701559SM	2	HINGE, Upper
21	1923701SM	2	CAPSCREW, Hex Hd., 3/8-16 x 2
22	2830222	2	CLIP
23	1921880SM	2	LOCKWASHER-EXTERNALTO

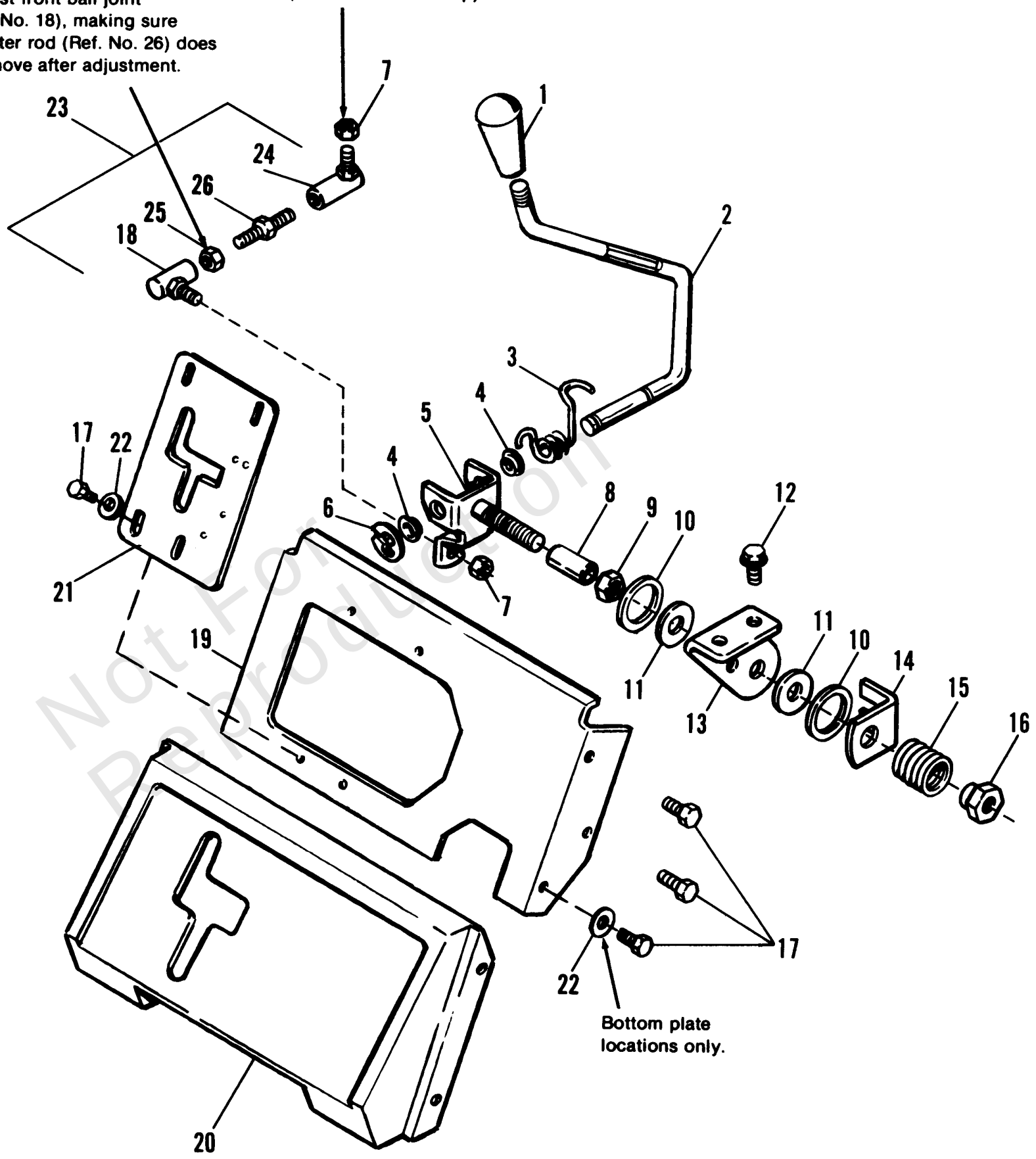
Shift Quadrant Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773

Tighten jamnut (Ref. No. 25) against front ball joint (Ref. No. 18), making sure adjuster rod (Ref. No. 26) does not move after adjustment.

Mounts to control arm assy. (see Transaxle Group).



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

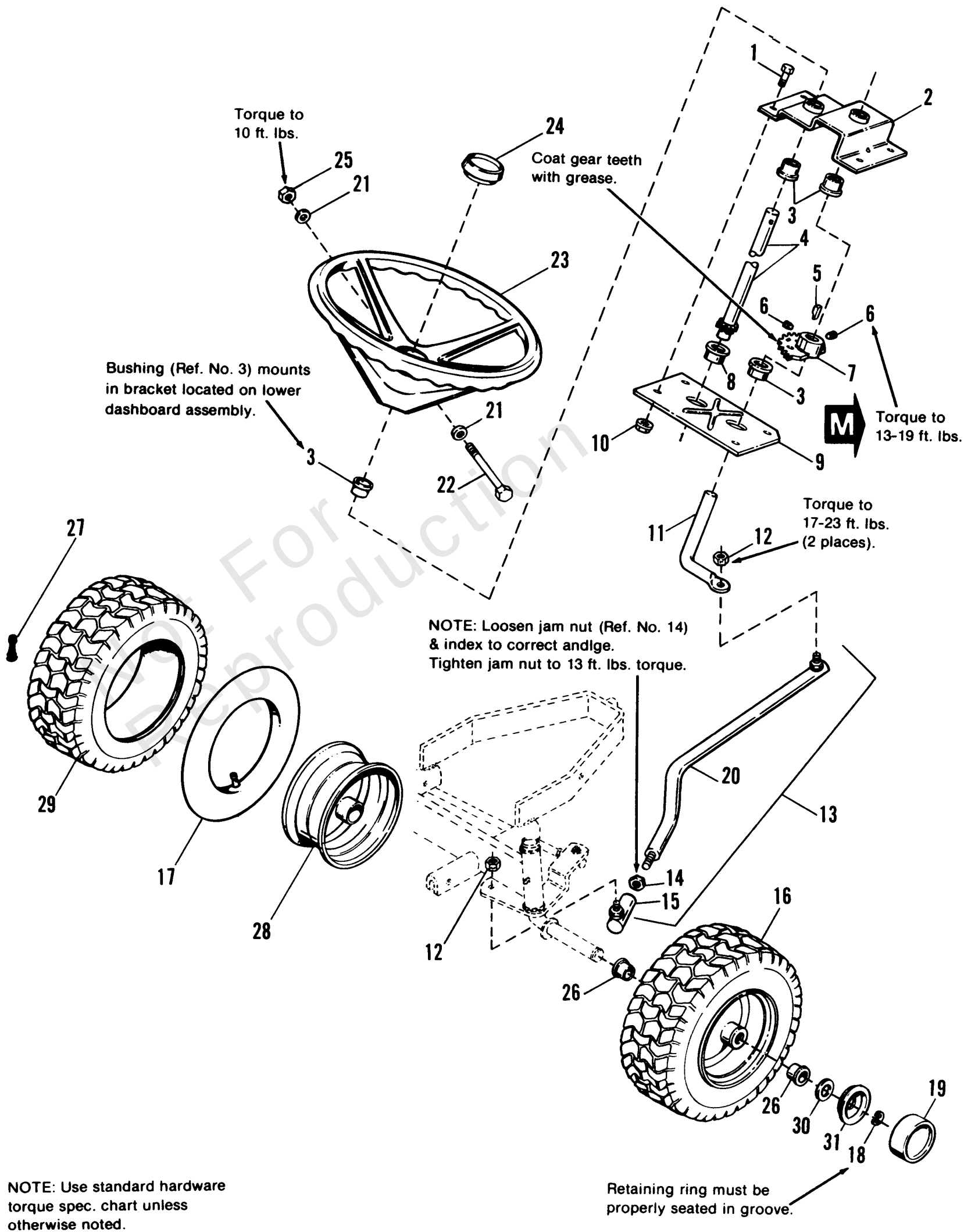
Shift Quadrant Group

REF NO	PART NO	QTY	DESCRIPTION
1	1702652SM	1	HANDLE, Speed Control
2	1700877	1	ROD
3	1700878	1	SPRING, Torsion
4	1669197	2	BUSHING
5	1702380SM	1	BRACKET ASSY., Speed Control
6	2158399SM	1	E-RING
7	1668927SM	2	NUT, Centerlock, 3/8-24
8	1679740	1	SPACER
9	1930645SM	1	NUT, Hex Lock, 3/8-16
10	1702585	2	RING, Containment
11	1705928SM	2	DISC, Friction
12	1930601SM	1	SCREW, Taptite, 5/16-18 x 5/8
13	1701248	1	BRACKET, Speed Control Support
14	1702217	1	BRACKET, Pivot
15	1702067	1	SPRING, Compression
16	1702223	1	NUT, Spacer
17	1925003SM	10	SCREW, Taptite, 1/4-20 x 1/2
18	1702231SM	1	BALL JOINT, L.H. Thrd.
19	1702628	1	PLATE, Quadrant Mounting
20	1679739	1	PANEL, Shift
21	1702244	1	QUADRANT, Speed Control
22	1921319SM	6	WASHER, 1/4
23	1702245	1	BALL JOINT ASSY., (Incl. Ref. Nos. 18, 24, 25 & 26)
24	1669567SM	1	JOINT-BALL .375-24 RH
25	1918403SM	1	JAM NUT, 3/8-24
26	1702225	1	ADJUSTER ROD

Steering & Front Wheel Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



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

Steering & Front Wheel Group

REF NO	PART NO	QTY	DESCRIPTION
1	1921332SM	4	CAPSCREW, Hex Hd., 5/16-18 x 3/4
2	1667513SM	1	PLATE, Steering
3	2176440SM	4	BUSHING-0.765IDX
4	1701266SM	1	SHAFT ASSY., Steering
5	1667622SM	1	KEY
6	1928721SM	2	SETSCREW, 5/16-18 x 1/2
7	1675388SM	1	STEERING GEAR
8	1671737SM	1	BUSHING
9	1652743SM	1	BASE PLATE, Steering
10	1935048SM	4	NUT, Hex, Flange, 2 Way Lock, 5/16-18
11	1674076SM	1	ROD, Steering
12	1668927SM	2	NUT, Special
13	1686669SM	1	LINK ASSY., Drag (Incl. Ref. Nos. 14, 15 & 20)
14	1918403SM	1	NUT, Jam, 3/8-14
15	1669567SM	1	JOINT-BALL .375-24 RH
16	1709856SM	2	WHEEL & TIRE ASSY., 15 x 6.00-6 (Incl. Ref. Nos. 17, 26, 27, 28 & 29)
17	1664090SM	2	TUBE, 4.10 x 3.50-6 (Service Only)
18	1611710SM	2	KLIP RING, External, 3/4
19	1676519SM	2	HUB CAP
20	-----	1	DRAG LINK (Order Ref. No. 13)
21	1919326SM	2	WASHER, 5/16
22	1925690SM	1	BOLT, Hex, 5/16-18 x 3-1/2
23	1686651SM	1	WHEEL, Steering
24	1657017SM	1	CAP, Steering Wheel
25	1923362SM	1	NUT, Hex, Lock, 5/16-18
26	2156316SM	4	BEARING
27	2172353SM	2	VALVE STEM
28	1715032	2	WHEEL
29	1713166SM	2	TIRE (Carlisle) 15 x 6.00-6
30	2860160	2	WASHER
31	1701435SM	2	RETAINER, Hub Cap

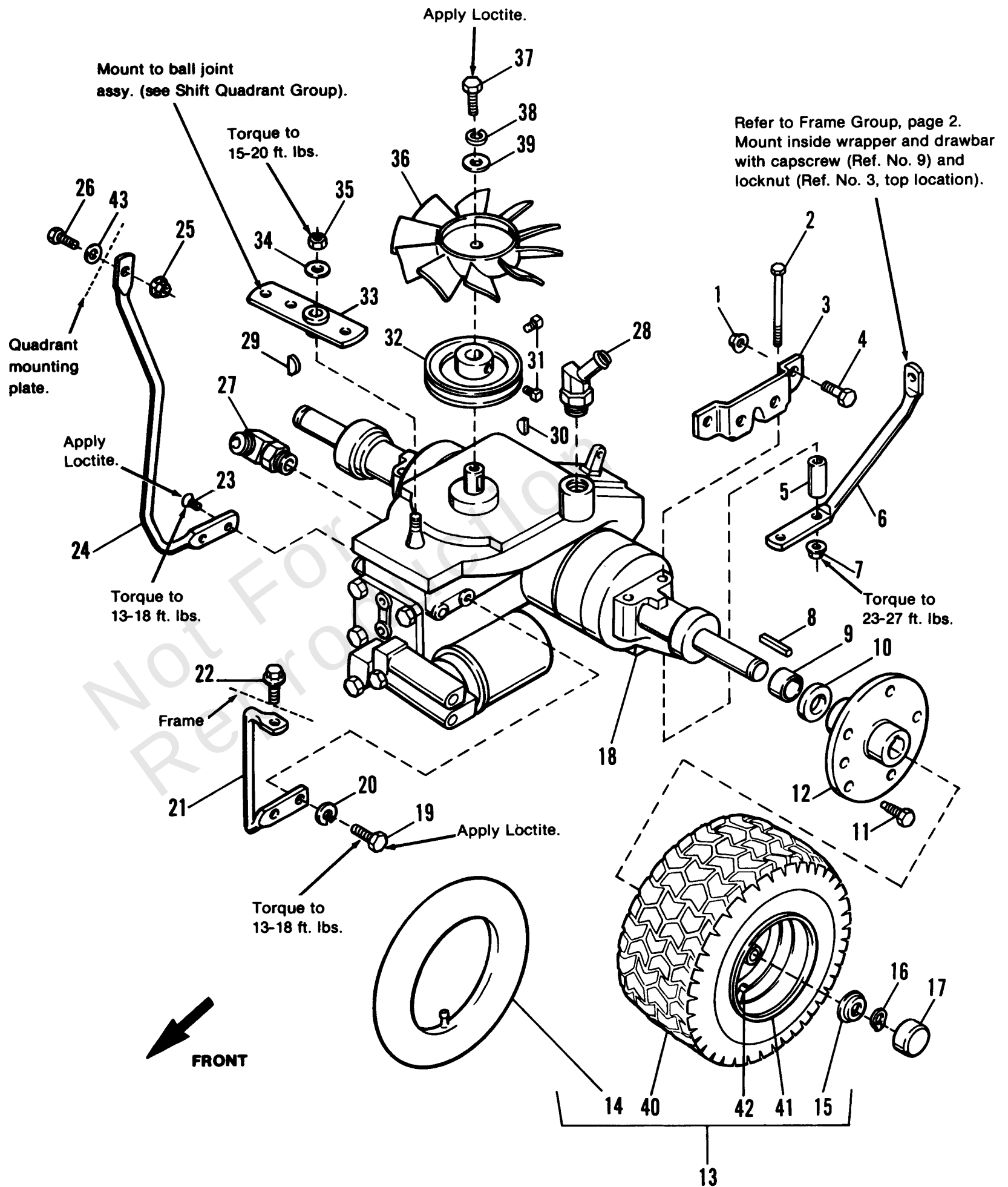
Footnotes:

Note:* Not serviced separately, order complete Link Assembly.

Transaxle Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



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

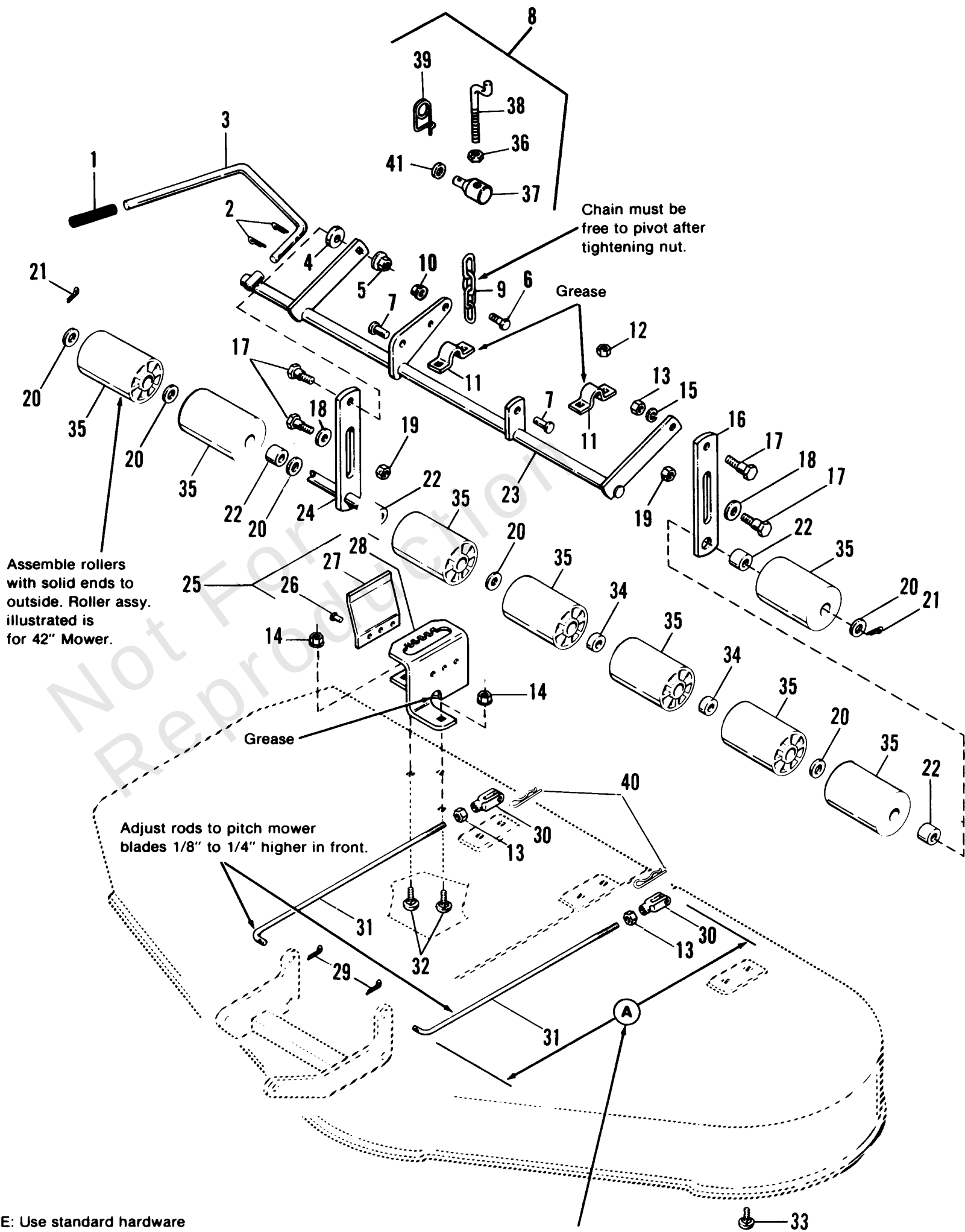
Transaxle Group

REF NO	PART NO	QTY	DESCRIPTION
1	1928352SM	4	NUT, Hex Flange, Whiz Lock, 3/8-16
2	1922648SM	4	CAPSCREW, 3/8-16 x 4
3	1679694	2	BRACKET, Transaxle Mounting
4	1921210SM	4	CAPSCREW, 3/8-16 x 1
5	1679740	4	SPACER, 1-1/4
6	1702630	1	BRACE, Transaxle, Rear, L.H.
6	1702631	1	BRACE, Transaxle, Rear, R.H.
7	1930645SM	4	NUT, Hex, Two-Way Lock, 3/8-16
8	2805100SM	2	KEY, Straight
9	1701873SM	2	SPACER, Wheel
10	1927241	2	WASHER
11	1729280SM	10	BOLT, Wheel
12	1700620	2	HUB ASSY., Rear Wheel (Standard)
12	1701914	1	HUB ASSY., Right Rear Wheel 4" Offset used with Electric Lift Kit
13	173432	2	TIRE & WHEEL ASSY., 23 x 10.50 x 12
14	2157638SM	2	TUBE
15	1676520SM	2	RETAINER, Hub Cap
16	2832577SM	2	RING, Retainer
17	1676519SM	2	HUB CAP
18	1701203	1	TRANSAXLE (See pages 16-21 for breakdown)
19	1921332SM	2	CAPSCREW, 5/16-18 x 3/4
20	1917356SM	2	LOCKWASHER
21	1679667	1	TORQUE ARM
22	1930601SM	1	SCREW, Taptite, 5/16-18 x 5/8
23	1960344SM	2	SCREW, 5/16-18 x 3/4
24	1702629	1	BRACE, Transaxle, RH
25	1927557SM	1	NUT, Whiz Flange, 5/16-18
26	703570	1	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
27	1700446SM	1	FITTING, Hydro
28	1671228SM	1	FITTING, Hydro
29	2805119SM	1	KEY, Woodruff (#3)
30	2830672SM	1	KEY, Hi-Pro
31	1960110SM	2	SET SCREW, 1/4-28 x 1/2
32	1679501ASM	1	PULLEY
33	1679737	1	CONTROL ARM ASSY. (Speed)
34	1924940SM	1	WASHER
35	1930645SM	1	NUT, Hex, Center-Lock, 3/8-16
36	1700021SM	1	FAN, 10-Blade (C.C.W.)
37	1923341SM	1	CAPSCREW, 1/4-20 x 3/4
38	1916964SM	1	LOCKWASHER
39	1960151SM	1	WASHER
40	1709969SM	2	TIRE, 23 x 10.50-12
41	2173430	2	WHEEL
42	2172353SM	2	VALVE STEM
43	1919326SM	1	WASHER, 5/16

42" & 48" Height Adjusting & Roller Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1691773



42" & 48" Height Adjusting & Roller Group

REF NO	PART NO	QTY	DESCRIPTION
1	2176933SM	1	GRIP
2	1918452SM	2	PIN, Cotter, 1/8 x 1
3	1656412SM	1	LEVER, Control
4	2822755	1	WASHER, Plain, 13/32
5	2828352	1	LOCKNUT, Hex, Flange, Whiz, 3/8-16
6	703570	1	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
7	1923087SM	2	PIN, Clevis
8	1685247SM	1	ROD, Lift, (Incl. Ref. No. 36, 37, 38, 39, 41)
9	1669241SM	1	CHAIN, Lift
10	1935048SM	1	LOCKNUT, Flange, 5/16-18
11	1665374SM	2	STRAP-1.00WD 3.06LG .
12	1931277SM	4	NUT, Hex, 5/16-18 (Qty. 6 on 48")
13	1916950SM	2	NUT, Hex, 3/8-16
14	1931211SM	6	NUT, Hex, Flange Whizlock, Full, 3/8-16
15	1916965SM	4	LOCKWASHER, 3/8
16	1603263SM	1	BAR, Roller
17	2172622SM	4	BOLT, Shoulder, 3/8-16 X 1.34, 1/2 Shoulder
18	1924361SM	2	WASHER, Plain, 1/2
19	1919439SM	2	NUT, Esna, Lock, 3/8-16
20	1960020SM	6	WASHER, Plain, 21/32
21	1918458SM	2	PIN, Cotter, 3/16 x 1
22	1602946SM	4	SPACER, .66 ID
23	1685217	1	ARM ASSY., Mower (42" only)
23	1668718	1	ARM ASSY., Mower (48" only)
24	1668814SM	1	SHAFT ASSY., Roller (42" only)
24	1686684SM	1	SHAFT ASSY., Roller (48" only)
25	1668828SM	1	QUADRANT ASSY. (Incl. Ref. Nos. 26, 27 & 28)
26	2810542SM	3	RIVET
27	1663222SM	1	SPRING
28	-----	1	QUADRANT (See Ref. No. 25)
29	1918447SM	2	PIN, Cotter, 3/32 x 3/4
30	2108157SM	2	CLEVIS, Adj.
31	1665417SM	2	ROD, Adj.
32	1931348SM	3	BOLT, Carriage 3/8-16 x 3/4
33	1931333SM	4	BOLT, Carriage, 5/16-18 x 3/4 (Qty. 6 on 48")
34	2172914SM	2	SPACER
35	1668513SM	8	ROLLER, .652 ID, 2.50 OD, 4.10 LG
36	1920161SM	1	NUT-HEX JAM 5/16-18
37	2172141SM	1	PIVOT
38	1673665SM	1	ROD, Lift (Short)
39	2176012SM	1	CLIP, Pin, Safety
40	1960074SM	2	CLIP, HAIR PIN .093DI
41	1919326SM	1	WASHER, 5/16

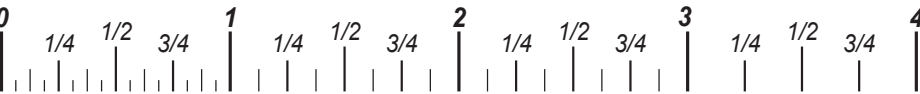
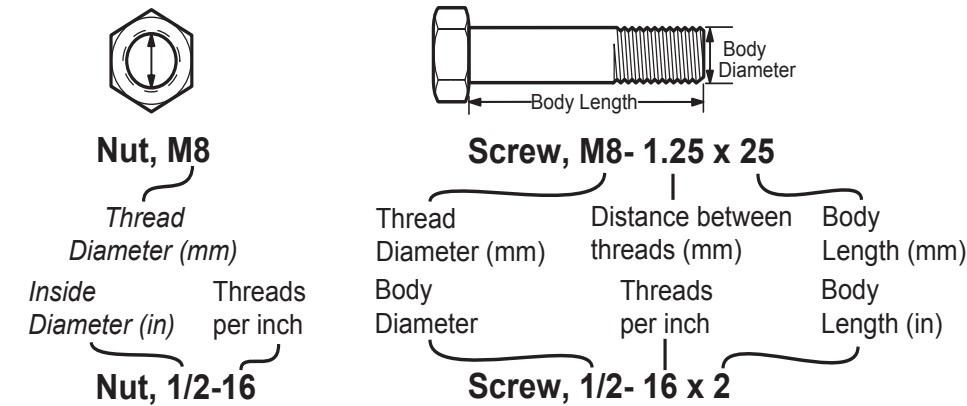
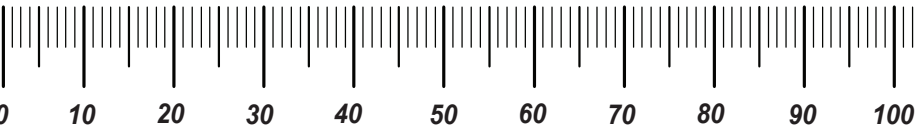
Footnotes:

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).

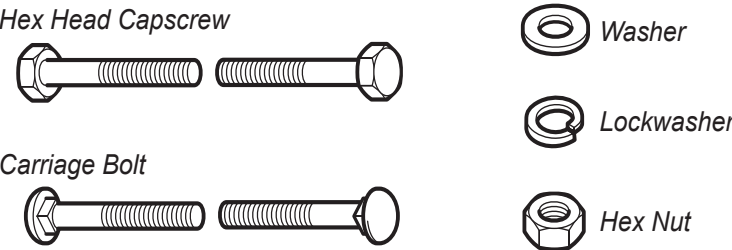
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

