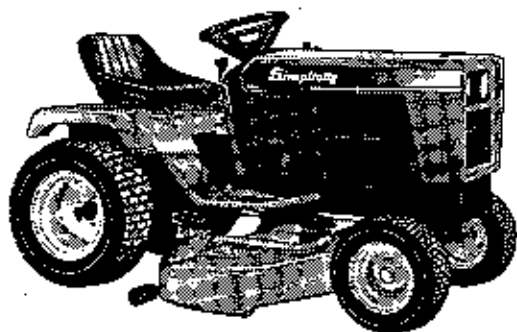


# 17GTH-L & 7100 SERIES

17GTH-L  
Mfg. No. 1691957

7117  
Mfg. No. 1691717

7116  
Mfg. No. 1691382



# PARTS MANUAL

***Simplicity***

## Product Identification:

When ordering parts, keep your products serial number and manufacturer's number in mind. Variations may occur in a part between early and later model products, causing the product serial number to be listed in the parts description whenever these variations occur.

Record your I.D. numbers here for quick, future reference.

Product Mfg. No. \_\_\_\_\_ S/N \_\_\_\_\_ Mower Mfg. No. \_\_\_\_\_ S/N \_\_\_\_\_

## Attention:

Standard torques appear in a chart at the end of the manual, while important individual torques are given on specific parts drawings.

CRITICAL and MAJOR notations point out important facts or instructions which relate to personal safety and proper machine operation. Any CRITICAL notation **C** which may appear in this book, pinpoints characteristics which, if not properly followed, can create a safety hazard. Any MAJOR notation **M** which may appear in this book, marks characteristics which, if not properly followed, may result in operating failure, shortened product life, or greatly reduced quality of the unit. For your convenience, assembly notes are included in parts drawings to assist in repair and assembly of unit.

## OILS - SPECIFICALLY BLENDED OF HIGH QUALITY BASE OILS & ADDITIVES.

**Special Worm Gear Oils:** Required for protection of brass gears and mating parts.

- **Warm Weather Worm Gear Oil** for use in tillers w/worm drive. **Quart, Part #118085; Case of 12 Quarts, Part#1685100.**
- **Cold Weather Worm Gear Oil** for snowthrowers with worm gear drive. **8 Oz. Bottle, Part #1704636, Case of 12 8 Oz. Bottles, Part #1685406.**

**Multi-Purpose Hydraulic/Transmission Oil** for use in most hydraulic applications, and hydrostatic and gear transmissions. Specific Simplicity applications: All hydrostatic transmissions, all bevel gear cases, all Broadmoor, Landlord, Sovereign, 4000, 6000, 6100, 6200, & 7000 Series transmissions (except Peerless Gear Transmissions). (Not used in SunStar tractor transmission.) **Case of 12 Quarts, Part #1685516, 2½ Gallon Container, Part #1685539.**

**SAE 5W 30 SF/CD Cold Weather Engine Oil** for use in all four cycle and diesel engines at 30° temp. and under. **Case of 12 Quarts, Part #1685576.**

**SAE 15W40 SF/CD Engine Oil** for gas and diesel engines, warm weather; see engine manufacturer recommendations. **Case of 12 Quarts, Part #1685554.**

**GREASE GUN KIT** has 12" flexible hose to get into tight spots with ease. Kit contains: gun and 1-8 Oz. tube of grease. **Part #1685510.** For replacement tube, order **Part #103077.**

**PNEUMATIC TIRE SEAL** seals all leaks including bead leaks and punctures up to 3/16 inch diameters. Prevents flats for tread life of tire. Available in following amounts.

Case of 12 - 11 Oz. Tubes	1685537
Case of 24 - 11 Oz. Tubes	1685525
5 Gallon Pail	1685527

**DESIGNER SEAT COVERS** are double stitched, easy care vinyl. Keeps new seats new, makes worn seats look new.

**Small Seat Cover w/Pocket, Part #1685540,** Fits all Rear Engine Riders, Broadmoor, 3000, 4000, 5000, 5100, SunRunner & FC Series Tractors.

**TOUCH-UP PAINT** keeps equipment in showroom condition.

Spray Cans	Quarts	Daubers-12 Per Ctn.
<i>For Products Built After 8/1/89.</i>		
"Deep Orange" 13 Oz. Can 1685611 Case 12 Cans 1685614	1685612	1685616 Mixed 6 Deep Or., 6 White ½ Oz. Bottles
"Textured Black" 13 Oz. Can 1685610 Case 12 Cans 1685618	1685617	N/A
<i>For Products Built 7/1/88 thru 8/1/89.</i>		
"Powder Orange" 13 Oz. Can 1685589 Case 12 Cans 1685590	1685591	1685593 Mixed 6 Powder Or., 6 White ½ Oz. Bottles
"Black" 13 Oz. Can 1685551 Case 12 Cans 1685552	N/A	N/A
<i>For Products Built 12/1/85 thru 7/1/89.</i>		
"Classic Orange" 13 Oz. Can 1685558 Case 12 Cans 1685559	1685560	1685562 Mixed 6 Classic Or., 6 White ½ Oz. Bottles
"Black" 13 Oz. Can 1685551 Case 12 Cans 1685552	N/A	N/A
<i>For 1977 thru Early Model Year 1985 Products</i>		
"Simplicity Orange" 13 Oz. Can 103262 Case 12 Cans 1685179	1685037	1685520 Mixed 6 Simpl. Or., 6 White ½ Oz. Bottles
<i>All Models</i>		
"White" 13 Oz. Can 103049 Case 12 Cans 1685178	1685032	See Above

**Consult decal on equipment for proper orange color.**

**Large Seat Cover w/Pocket, Part #1685541.** Fits all Landlord, Sovereign, Baron, 5200, LTH, 6000, 6500, GTH, 7000 & 9000 Series Tractors.

**SunStar Seat Cover, Part #1685577.** Fits all SunStar Tractors

**Extend Equipment Life - Use Only Genuine Simplicity Parts**

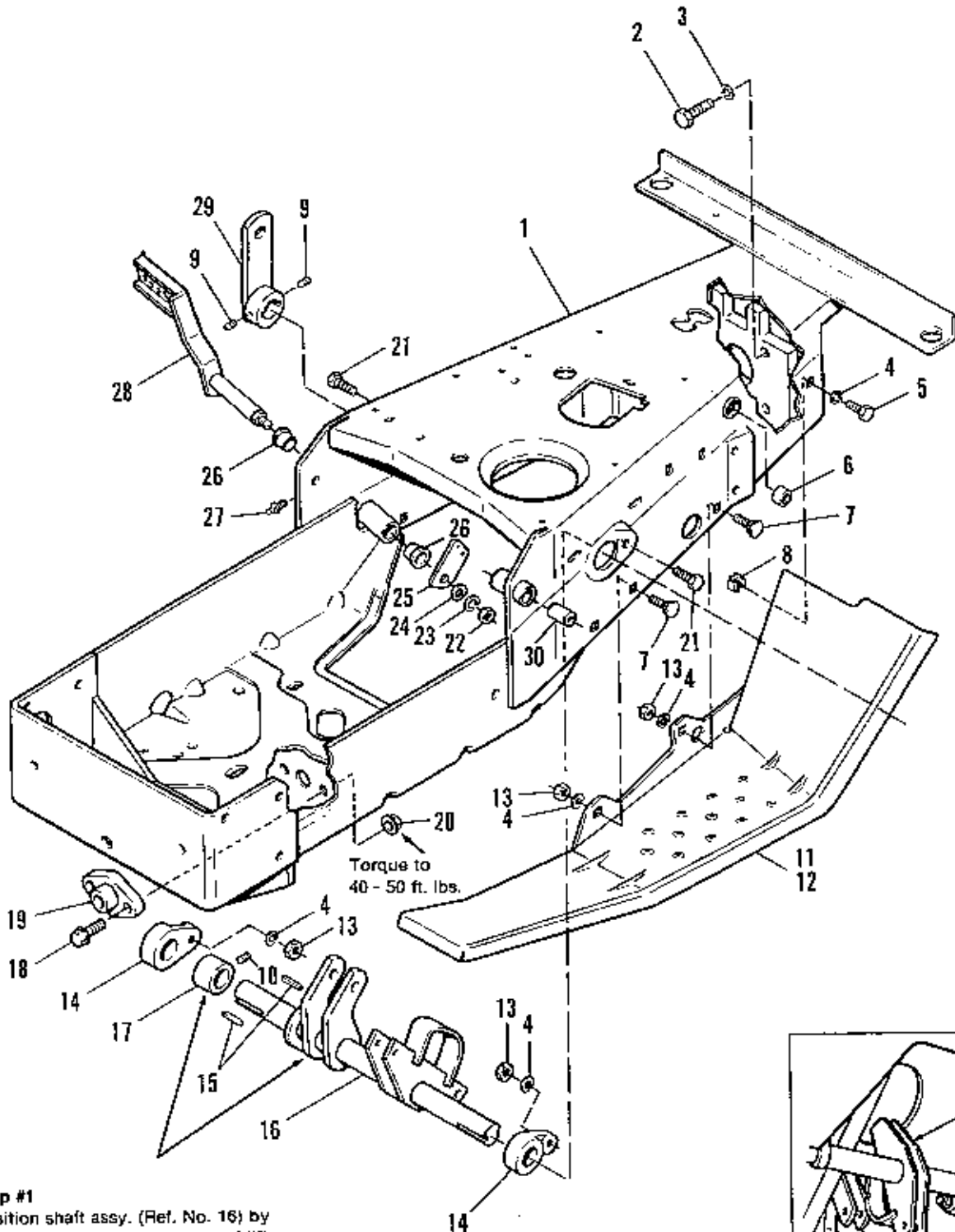
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## **OPTIONAL ACCESSORIES**

- **Chrome "Moon" Hubcaps**  
For Front Wheels, 2 - 156210, 6" Hubcap  
For Rear Wheels, 2 - 154505, 12" Hubcap
- **Hour Meter Kit, 1685535**

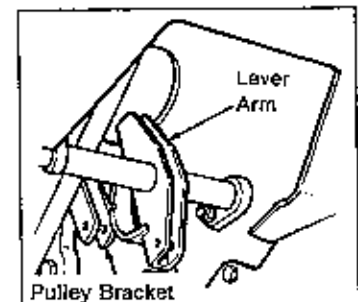


**Step #1**

Position shaft assy. (Ref. No. 16) by aligning lever arm with center of lift cable pulley bracket on left hand side of frame. (See reference drawing.)

**Step #2**

Secure shaft assembly in place w/set collar (Ref. No. 17) and setscrew (Ref. No. 10). Then install lift lever assy. (Ref. No. 29) on shaft assy. (Ref. No. 16) with no end play side to side.



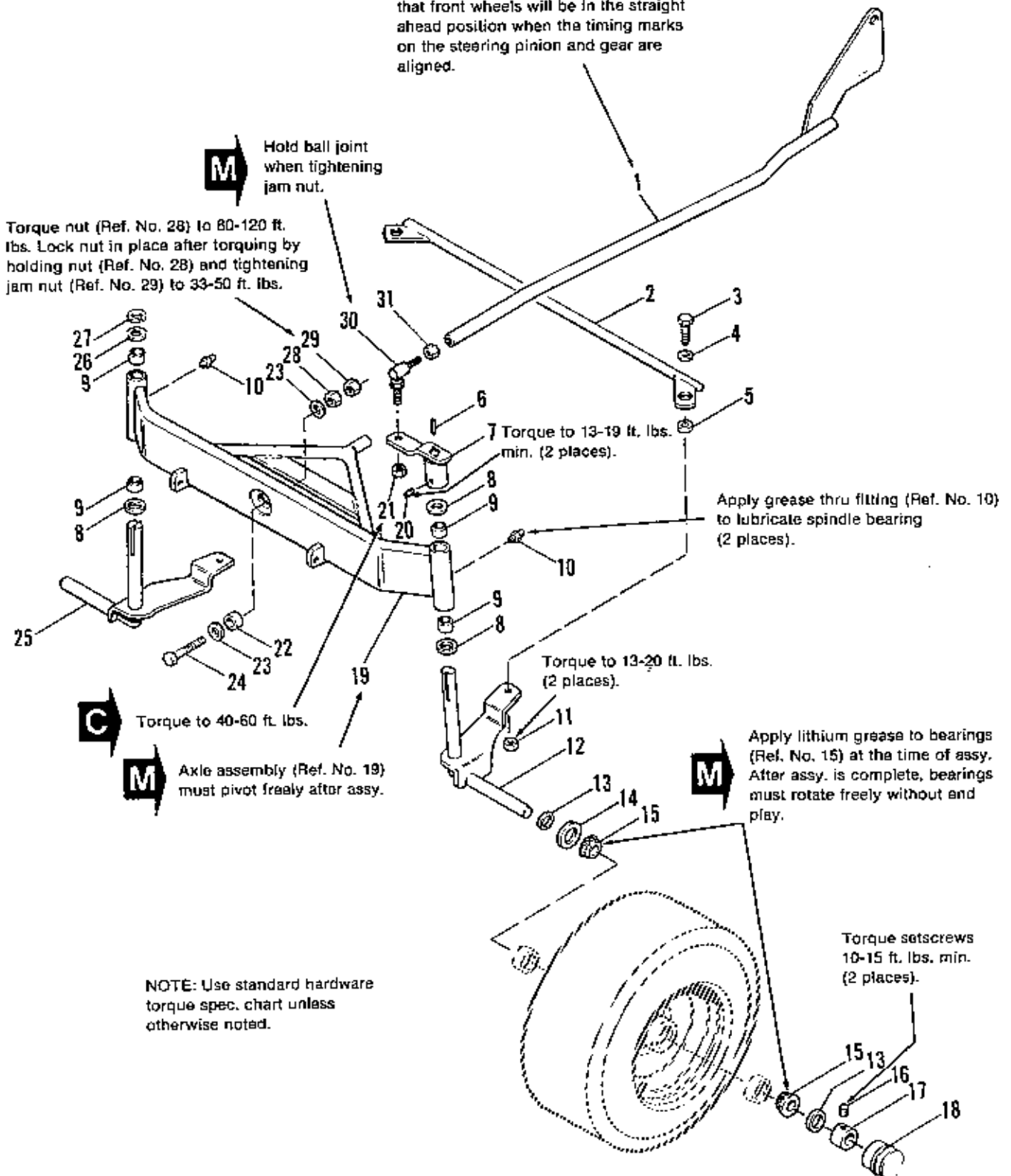
**NOTE:** Use standard hardware torque spec. chart unless otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1669094	1	FRAME ASSY., w/Bushings (1691382)
	1671380	1	FRAME ASSY., w/Bushings (1691717 & 1691957)
2	1921212	4	CAPSCREW, Hex Hd., 7/16-14 x 1-1/2
3	1918199	4	LOCKWASHER, 7/16
4	1917356	8	LOCKWASHER 5/16
5	1921332	2	CAPSCREW, Hex Hd., 5/16-18 x 3/4
6	174662	1	BUSHING
7	1931333	4	BOLT, Carriage, 5/16-18 x 3/4
8	920470	2	NUT, Speed, 5/16-18
9	1928734	2	SETSCREW, 5/16-18 x 1/4
10	1928721	1	SETSCREW, 5/16-18 x 1/2
11	1665908	1	FOOTREST, LH
12	1665909	1	FOOTREST, RH.
13	1917372	6	NUT, Hex, Full, 5/16-18
14	170975	2	BEARING, Lift Lever
15	157652	2	KEY
16	1667271	1	SHAFT ASSY., Lift (Hydro Lift)
	1663168	1	SHAFT ASSY., Lift (Manual Lift)
17	157624	1	COLLAR, Set
18	1928727	2	SCREW, Hex, Whiz, Flange, 3/8-16 x 1-1/4
19	1653876	1	BEARING, Pivot
20	1928352	2	LOCKNUT, Hex, Flange, 3/8-16
21	1921977	2	CAPSCREW, Hex Hd., 5/16-18 x 1-1/4
22	1916950	1	NUT, Hex, Full, 3/8-16
23	1916965	1	LOCKWASHER, 3/8
24	1917378	1	WASHER, Plain, 3/8
25	157300	1	ARM, Foot Pedal
26	108419	2	BUSHING
27	921133	1	FITTING, Grease
28	1674137	1	PEDAL ASSY., Foot
29	157625	1	LEVER ASSY., RH
30	158544	1	BEARING, Interim Pinion

\*Ref. No. 1 includes Ref. Nos. 6, 27 & 30.

A-1125

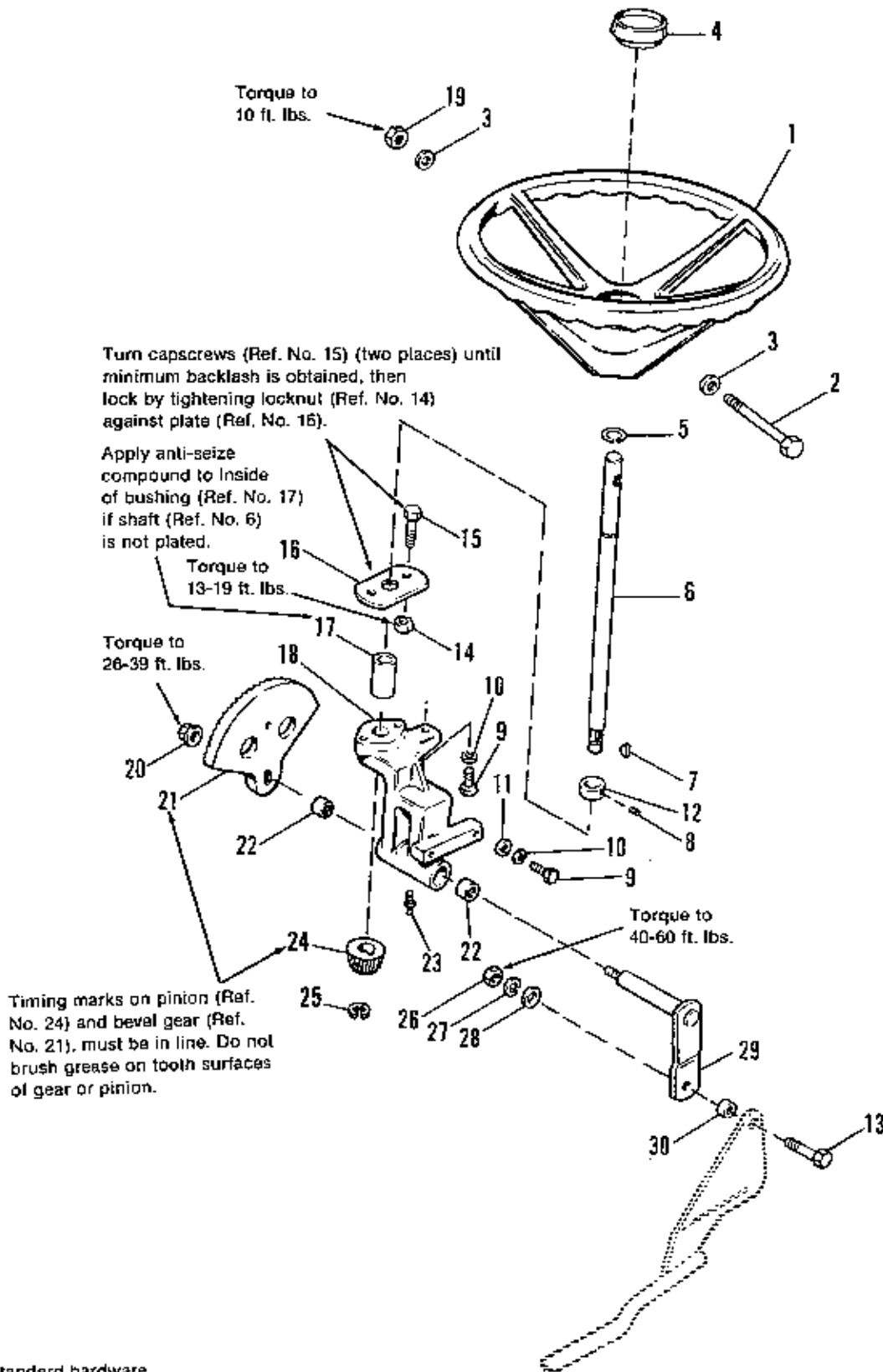
Adjust length of drag link assy. (Ref. No. 1) by positioning end ball joint so that front wheels will be in the straight ahead position when the timing marks on the steering pinion and gear are aligned.





Ref. No.	Part No.	Qty.	Description
1	1666648	1	LINK ASSY., Drag
2	157499	1	ROD ASSY., Tie
3	1921210	2	CAPSCREW, Hex Hd., 3/8-16 x 1
4	1917378	2	WASHER, Plain, 3/8
5	154177	2	SPACER
6	157427	2	KEY, Square
7	170998	1	ARM ASSY., Steering
8	1960114	3	WASHER
9	154289	4	BUSHING
10	921133	2	FITTING, Grease
11	1930651	2	LOCKNUT, Hex, 3/8-16
12	171774	1	SPINDLE ASSY., LH
13	171375	4	SPACER
14	170168	2	SEAL
15	154486	4	CONE, Bearing
16	1928691	2	SETSCREW, 5/16-18 x 5/16
17	8021010	2	COLLAR, Set
18	154487	2	CAP, Hub
19	1650553	1	AXLE ASSY., Front (Incl. Ref. No. 9)
20	1928721	2	SETSCREW, 5/16-18 x 1/2
21	1930245	1	LOCKNUT, Hex, 1/2-20
22	157618	1	SPACER
23	1918431	2	WASHER, Plain, 1/2
24	1927469	1	CAPSCREW, Hex Hd., 1/2-13 x 2-1/4
25	157494	1	SPINDLE ASSY., RH
26	8061012	1	WASHER
27	927794	1	RING, Retaining
28	1930648	1	LOCKNUT, Hex, 1/2-13
29	1913744	1	LOCKNUT, Hex, Jam, 1/2-13
30	164272	1	BALL, Joint
31	1919262	1	LOCKNUT, Hex, Jam, 1/2-20

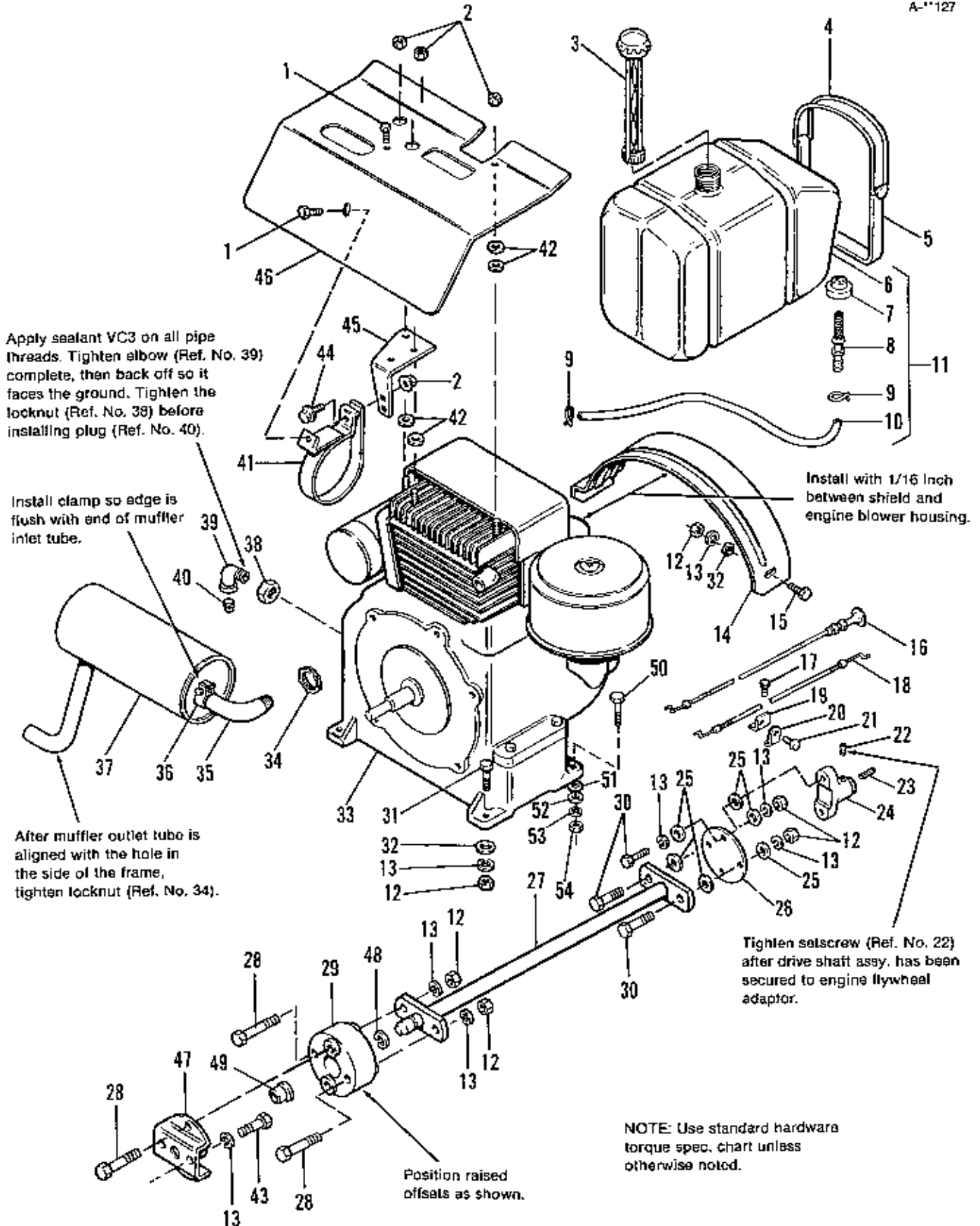
**NOTE:** See page 56 for Wheel and Tire parts list



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

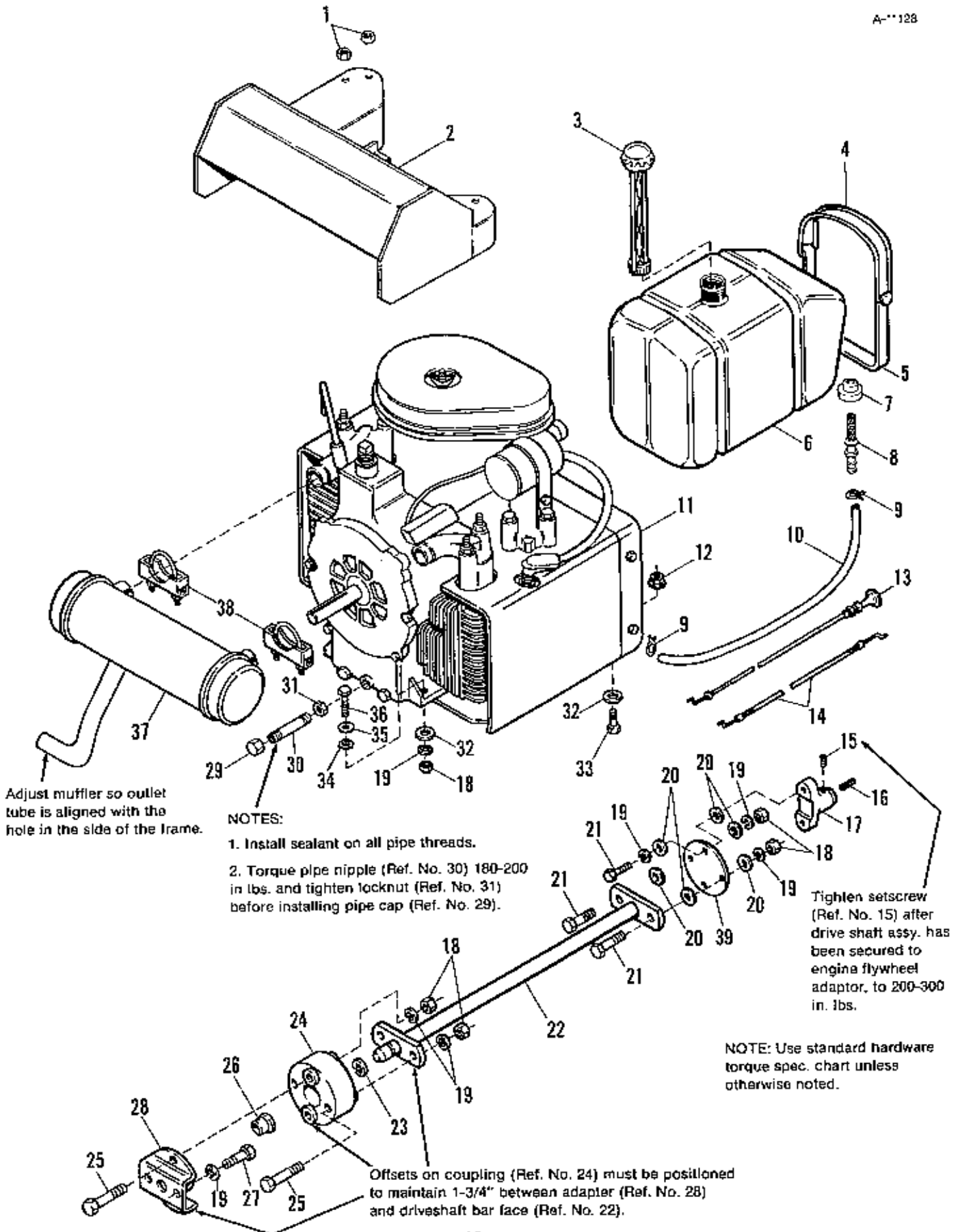
Ref. No.	Part No.	Qty	Description
1	1670989	1	WHEEL, Steering
2	1925690	1	BOLT, Hex, 5/16 x 3-1/2
3	1919326	2	WASHER, 5/16
4	1657017	1	CAP, Steering Wheel
5	154264	1	RING, Retaining
6	1673008	1	SHAFT, Steering
7	910224	1	KEY, Woodruff, #6
8	928734	1	SETSCREW, 5/16-18 x 1/4
9	1921966	3	CAPSCREW, Hex Hd., 3/8-16 x 7/8
10	1916965	3	LOCKWASHER, 3/8
11	1917378	2	WASHER, Bevel, 3/8
12	8021010	1	COLLAR, Set
13	1920328	1	CAPSCREW, Hex Hd., 1/2-13 x 1-1/2
14	1928731	2	LOCKNUT, Hex, Jam 3/8-16
15	1920415	2	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
16	171000	1	PLATE, Steering
17	170992	1	BUSHING
18	1668625	1	HOUSING ASSY., Steering (Incl. Ref. No. 22)
19	1923362	1	LOCKNUT, Hex, Cntr. 5/16-18
20	1930650	1	LOCKNUT, Hex, Flange, 7/16-14
21	170967	1	GEAR, Bevel
22	154258	2	BEARING, Needle
23	912808	1	FITTING, Grease
24	170988	1	PINION, Bevel
25	927793	1	E-RING
26	1916951	1	NUT, Hex, Full, 1/2-13
27	1916966	1	LOCKWASHER, 1/2
28	1918431	1	WASHER, Plain, 1/2
29	1666204	1	ARM ASSY., Steering
30	105051	1	SPACER

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Ref. No.	Part No.	Qty.	Description
1	1925003	2	SCREW, Hex, Taptite, 1/4-20 x 1/2
2	1927557	4	NUT, Hex, Whizlock, 5/16-18
3	171252	1	CAP, Fuel Tank
4	172744	2	STRAP, Fuel Tank
5	171330	2	STRAP, Tank
6		1	TANK, Fuel (See Ref. No. 11)
7	1654930	1	BUSHING
8	1664460	1	FITTING
9	1960112	2	CLAMP
10	1666276	1	HOSE, Fuel
*11	1666275	1	TANK ASSY., Fuel
12	1916950	12	NUT, Hex, Full, 3/8-16
13	1916965	16	LOCKWASHER, 3/8
14	1667407	1	SHIELD
15	921210	2	CAPSCREW, Hex Hd., 3/8-16 x 1
16	1666269	1	CONTROL, Choke
17	927429	1	SCREW, Hex Hd., Type F, 1/4-20 x 5/8
18	1666268	1	CONTROL, Throttle
19	1656453	1	BRACKET, Cable
20	158475	1	CLIP, Bowden Wire
21	1929477	1	SCREW, Hex, Taptite, #10-24 x 1/2
22	924624	1	SETSCREW, 3/8-24 x 3/8
23	157427	1	KEY, Drive Shaft
24	172264	1	FLANGE, Drive Shaft
25	157424	8	WASHER, Special
26	173026	1	COUPLING
27	1669042	1	SHAFT ASSY., Drive
28	1921972	4	CAPSCREW, Hex Hd., 3/8-16 x 2-1/2
29	1668637	1	COUPLING, Compression
30	1920415	4	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
31	1921969	3	CAPSCREW, Hex Hd., 3/8-16 x 1-1/2
32	1917378	4	WASHER, Plain, 3/8
33		1	ENGINE, 16 HP Briggs & Stratton
34	154378	1	LOCKNUT
35	1666122	1	ELBOW ASSY., Exhaust
36	172061	1	CLAMP, Muffler
37	1666059	1	MUFFLER, Exhaust
38	932849	1	LOCKNUT, 3/8-18
39	1673453	1	ELBOW, 90°, 3/8
40	1673452	1	PLUG, Pipe, Hex
41	1666833	1	STRAP ASSY., Muffler
42	1917642	4	WASHER, Plain, 5/16
43	1921966	2	CAPSCREW, Hex Hd., 3/8-16 x 7/8
44	933689	1	CAPSCREW, Hex, Whizlock, 5/16-18 x 1-1/2
45	1666885	1	SUPPORT, Muffler
46	1666831	1	SHIELD, Heat
47	1669040	1	PLATE ASSY., Adaptor
48	927794	1	RING, Retaining
49	176440	1	BUSHING
50	921969	1	CAPSCREW, Hex Hd., 3/8-16 x 1-1/2 (Zinc Pltd.)
51	920427	1	LOCKWASHER, Ext. Tooth, (Zinc Pltd.)
52	917378	1	WASHER, Plain, 3/8 (Zinc Pltd.)
53	916965	1	LOCKWASHER, 3/8 (Zinc Pltd.)
54	916950	1	NUT, Hex Full, 3/8-16 (Zinc Pltd.)

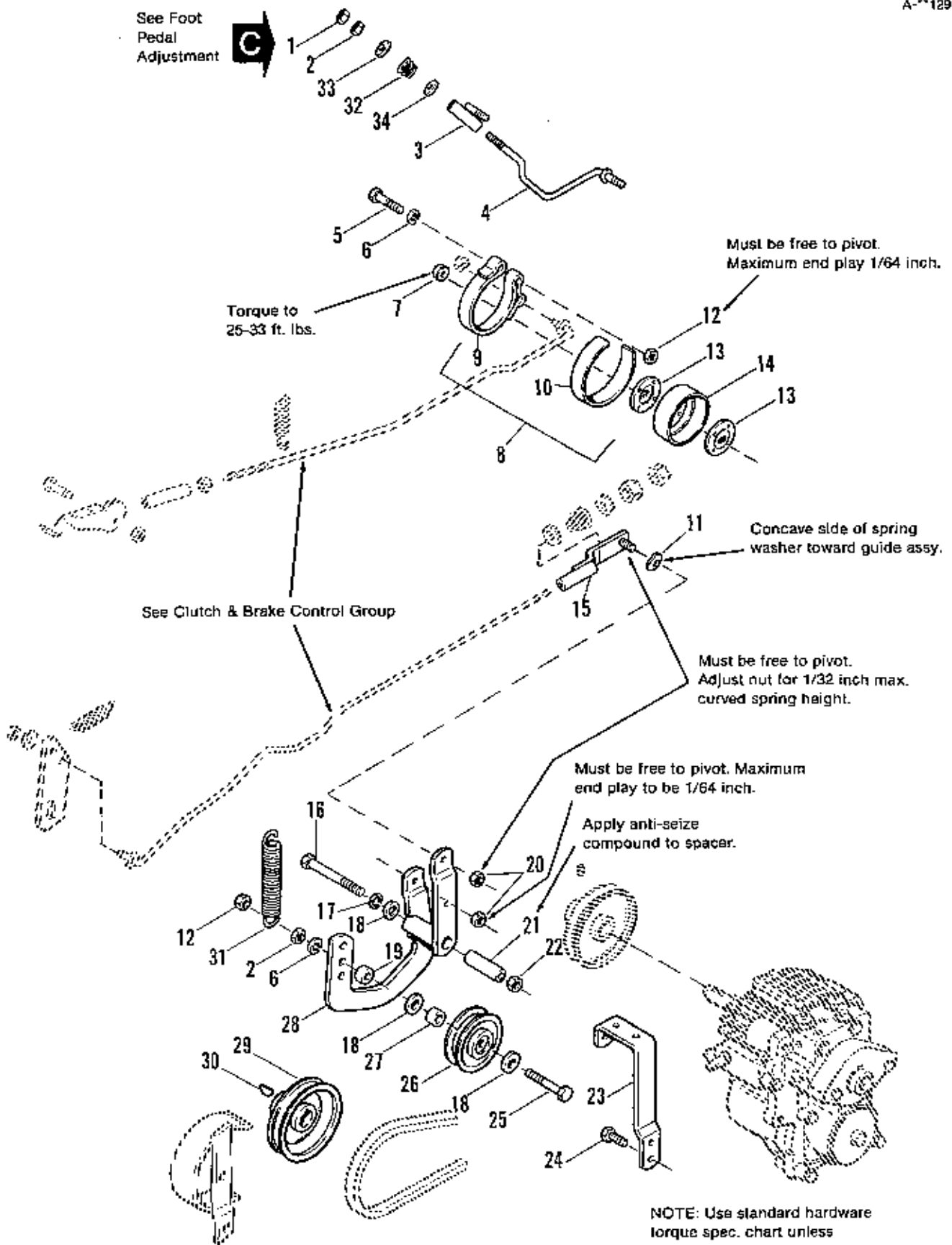
\*Ref. No. 11 includes Ref. Nos. 6, 7, 8, 9 (Qty. 1) & 10.



Ref. No.	Part No.	Qty.	Description
1	1935048	4	LOCKNUT, 2 Way, 5/16-18
2	1666940	1	HEAT SHIELD ASSY.
3	171252	1	CAP, Fuel Tank
4	172744	2	STRAP, Fuel Tank
5	171330	2	STRAP, Tank
*6	1666275	1	TANK ASSY., Fuel
7	1654930	1	BUSHING
8	1664460	1	FITTING
9	1960112	2	CLAMP, Hose
10	1676861	1	HOSE, Fuel
11		1	ENGINE, Kohler, 17 HP
12	928352	1	NUT, Whizlock, 3/8-16 (Zinc Pltd.)
13	1666269	1	CHOKE CONTROL
14	1666266	1	THROTTLE CONTROL
15	924624	1	SETSCREW, 3/8-24 x 3/8
16	157427	1	KEY, Drive Shaft
17	172264	1	FLANGE, Drive Shaft
18	1916950	9	NUT, Hex, 3/8-16
19	1916965	13	LOCKWASHER, 3/8
20	157424	8	WASHER, Special
21	1920415	4	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
22	1669044	1	SHAFT ASSY., Drive
23	927794	1	RETAINING RING
24	1668637	1	COUPLING, Compression
25	1921972	4	CAPSCREW, Hex Hd., 3/8-16 x 2-1/2
26	176440	1	BUSHING
27	1921966	2	CAPSCREW, Hex Hd.
28	1669040	1	PLATE ASSY., Adaptor
29	1667346	1	CAP, Pipe, Hex
30	1670681	1	DRAIN, Oil
31	1932849	1	LOCKNUT, 3/8-18
32	1917378	4	WASHER, Plain, 3/8
33	1920415	3	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
34	920427	1	LOCKWASHER, Ext. Tooth (Zinc Pltd.)
35	917842	1	WASHER, 5/16 (Zinc Pltd.)
36	921969	1	CAPSCREW, 3/8-16 x 1-1/2
37	1666923	1	MUFFLER, Exhaust
38	935040	2	CLAMP, Exhaust
39	173026	1	COUPLING

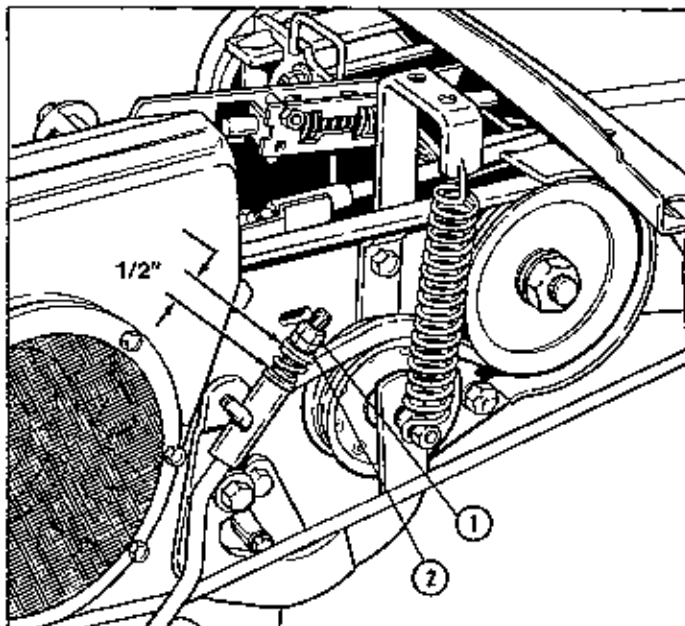
\*Ref. No. 11 includes Ref. Nos. 6, 7, 8, 9 (Qty. 1) & 10.

See Foot  
Pedal  
Adjustment



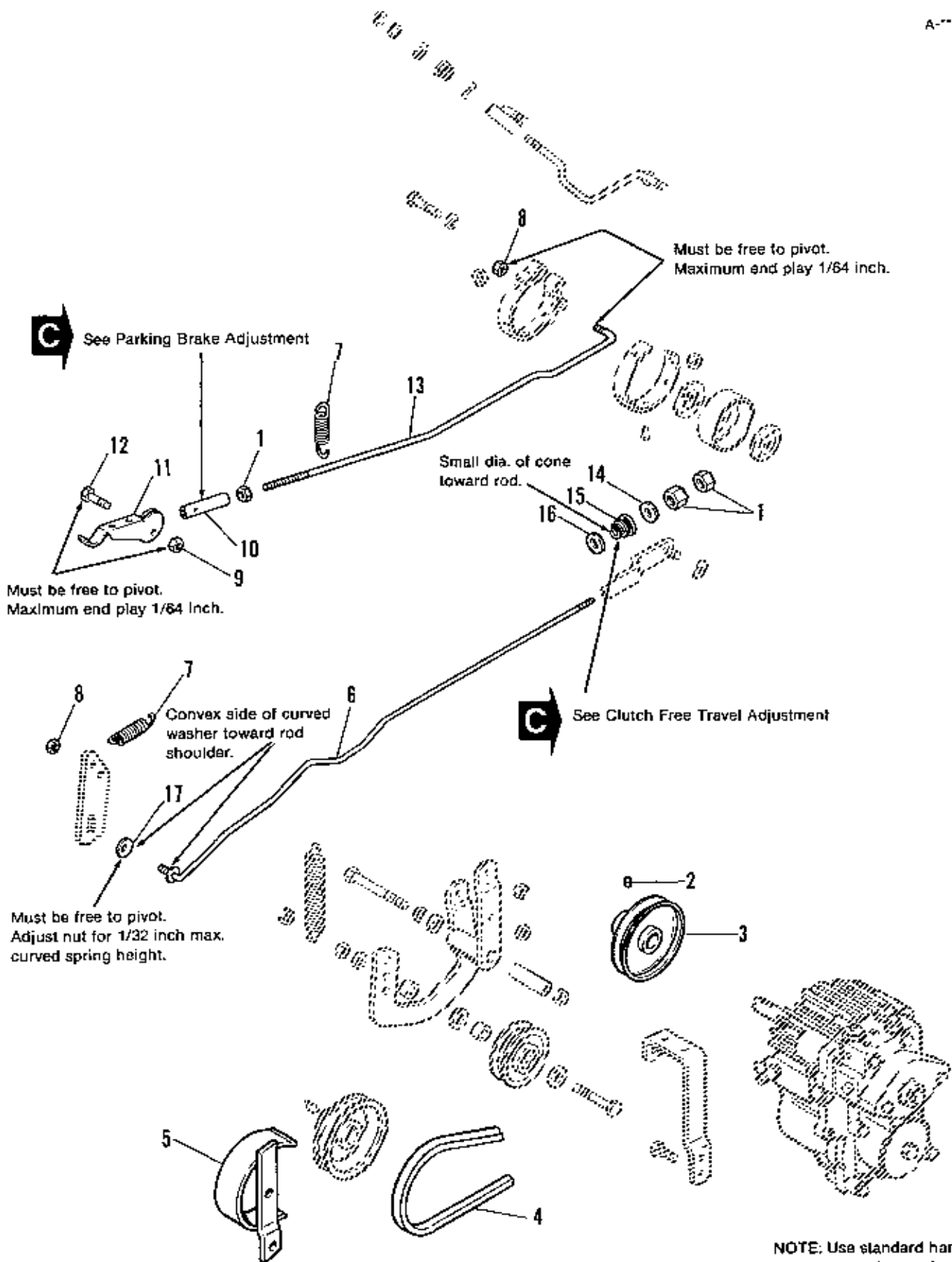


Ref. No.	Part No.	Qty.	Description
1	1919439	1	LOCKNUT, Hex, Esna, 3/8-16
2	916950	2	NUT, Hex, Full 3/8-16
3	166119	1	GUIDE ASSY., Rod
4	1650651	1	ROD, Brake
5	1921971	1	CAPSCREW, Hex Hd., 3/8-16 x 1-3/4
6	1916965	2	LOCKWASHER, 3/8
7	1930650	1	LOCKNUT, Hex, Flange, 7/16-14
8	1679354	1	BAND ASSY., Brake (incl. Ref. Nos. 9 & 10)
9		1	BAND, Brake (See Ref. No. 8)
10		1	LINING, Brake (See Ref. No. 8)
11	1668737	1	WASHER, Curved Spring
12	1930651	2	LOCKNUT, Hex, 3/8-16
13	158196	2	WASHER, Special
14	166176	1	DRUM, Brake
15	166157	1	GUIDE ASSY., Rod
16	1928295	1	CAPSCREW, Hex Hd., 7/16-14 x 3-3/4
17	1918199	1	LOCKWASHER, 7/16
18	1917378	3	WASHER, Plain, 3/8
19	157081	1	SPACER
20	1923362	2	LOCKNUT, Hex, 5/16-18
21	166130	1	SPACER
22	1918213	1	NUT, Hex, Full, 7/16-14
23	166156	1	BRACKET
24	1926035	2	SCREW, Self Tapping, 3/8 x 3/4
25	1921972	1	CAPSCREW, Hex Hd., 3/8-16 x 2-12
26	1665432	1	PULLEY ASSY.
27	1666294	1	SPACER
28	166126	1	LEVER ASSY., Idler
29	1657323	1	PULLEY
30	905123	1	KEY
31	154369	1	SPRING
32	157127	1	SPRING, Cone
33	1922611	1	WASHER
34	917642	1	WASHER

**FOOT PEDAL BRAKE ADJUSTMENT**

Adjust foot brake after adjusting tractor clutch (see following pages):

1. Lock parking brake.
2. Adjust nut (Ref. No. 2) for 1/2 inch spring height between washers.
3. Depress foot pedal, to engage brake. Transmission drive belt must be fully disengaged when brake is engaged.
4. Tighten locknut (Ref. No. 1) against adjustment nut (Ref. No. 2) when adjustment is correct. Make sure adjustment nut does not move.

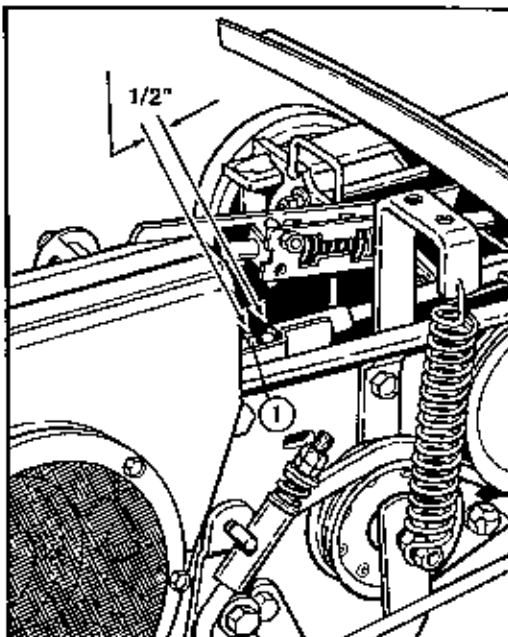


Ref. No.	Part No.	Qty.	Description
1	917372	3	NUT, Hex, Full, 5/16-18
2	928709	1	SETSCREW, 5/16-18 x 3/8
3	166173	1	PULLEY, Drive, Transmission
4	1650502	1	V-BELT, Drive, Transmission
5	166122	1	GUARD ASSY.
6	1650531	1	ROD, Clutch
7	121037	2	SPRING
8	923362	2	LOCKNUT, Hex, 5/16-18
9	923358	1	LOCKNUT, Hex, 1/4-20
10	171994	1	END, Rod
11	172108	1	LEVER, Parking Brake
12	926771	1	CAPSCREW, Hex Hd., 1/4-20 x 1
13	1668419	1	ROD ASSY.
14	919381	1	WASHER, 5/16
15	157127	1	SPRING, Cone
16	917377	1	WASHER
17	1668737	1	WASHER, Curved, Spring

**CLUTCH FREE TRAVEL ADJUSTMENT**

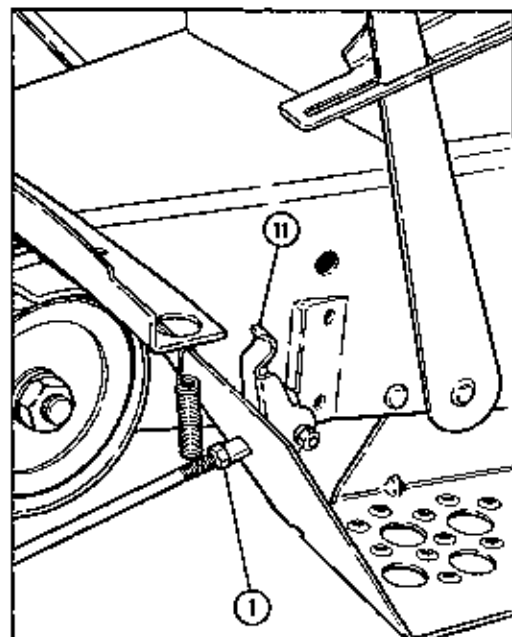
Adjust the tractor clutch before adjusting foot brake and parking brake.

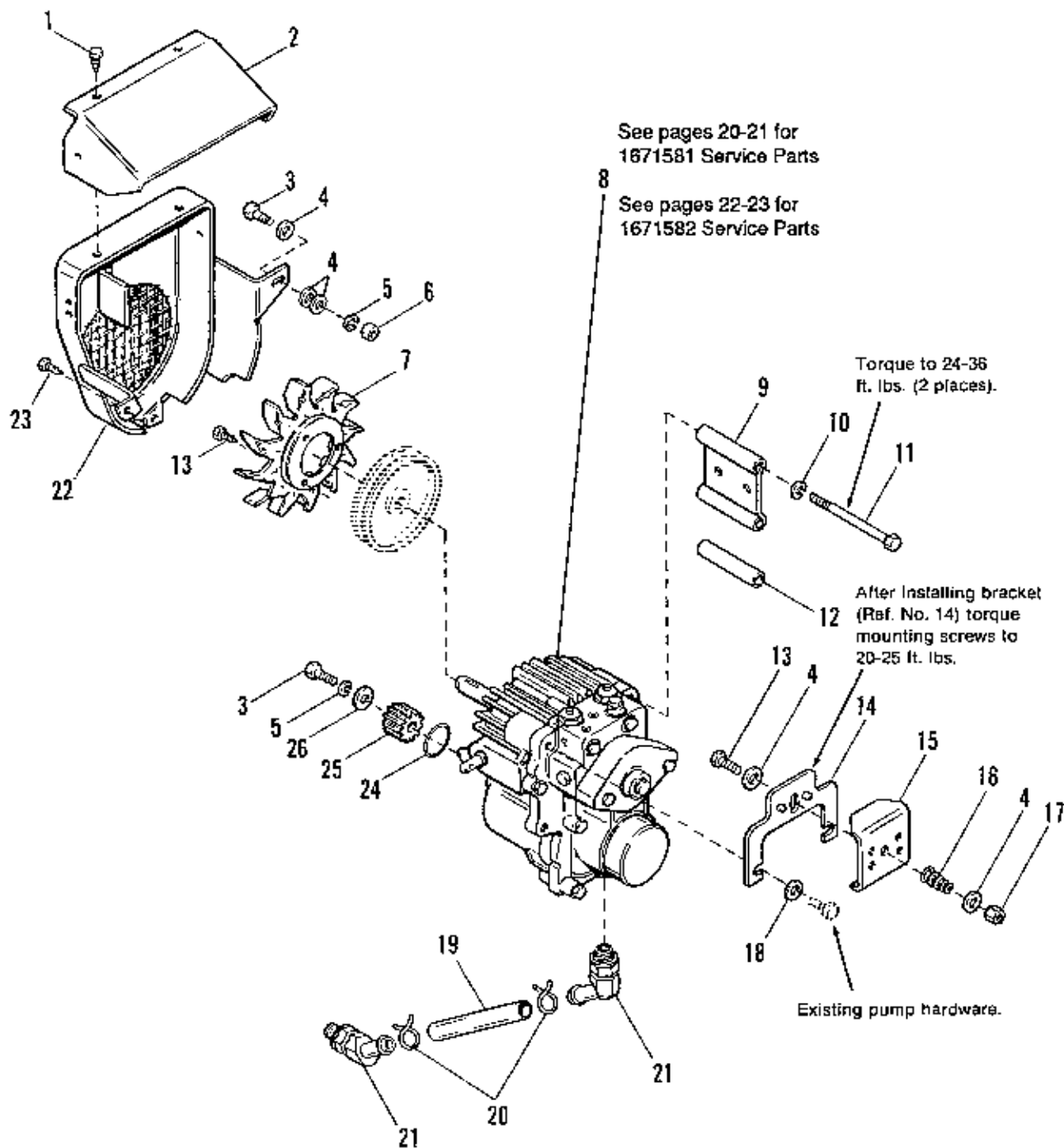
1. Rotate belt drive a minimum of 3 revolutions.
2. Make sure clutch pedal is released & clutch is as far to the rear as it will go.
3. Adjust double nuts (Ref. No.1) for 1/2 inch spring height between washers. Then lock nuts together to secure adjustment.

**PARKING BRAKE ADJUSTMENT**

Adjust the parking brake after the tractor clutch (see column 1) and foot brake (see page 13) have been adjusted.

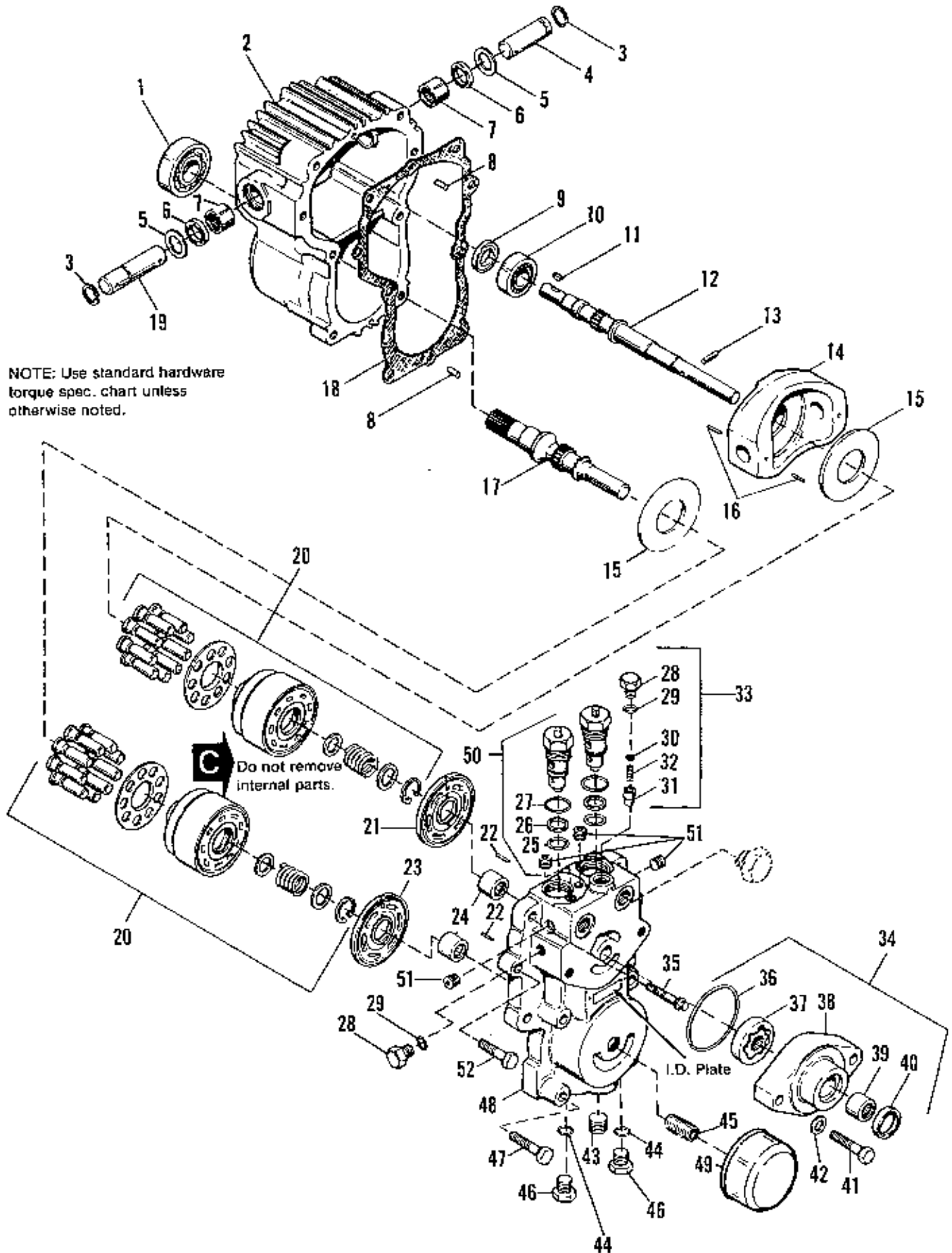
1. Loosen nut (Ref. No. 1).
2. Rotate parking brake lever (Ref. No. 11) to adjust parking brake. Turn lever one complete turn when making adjustments.
3. To lock parking brake, rotate lever up towards seat deck until lever is against upper area of footrest.
4. After adjustment, parking brake must hold the vehicle in any direction when parked on a 30% or 17° slope.
5. After parking brake is properly adjusted, secure adjustment tightening nut (Ref. No. 1).





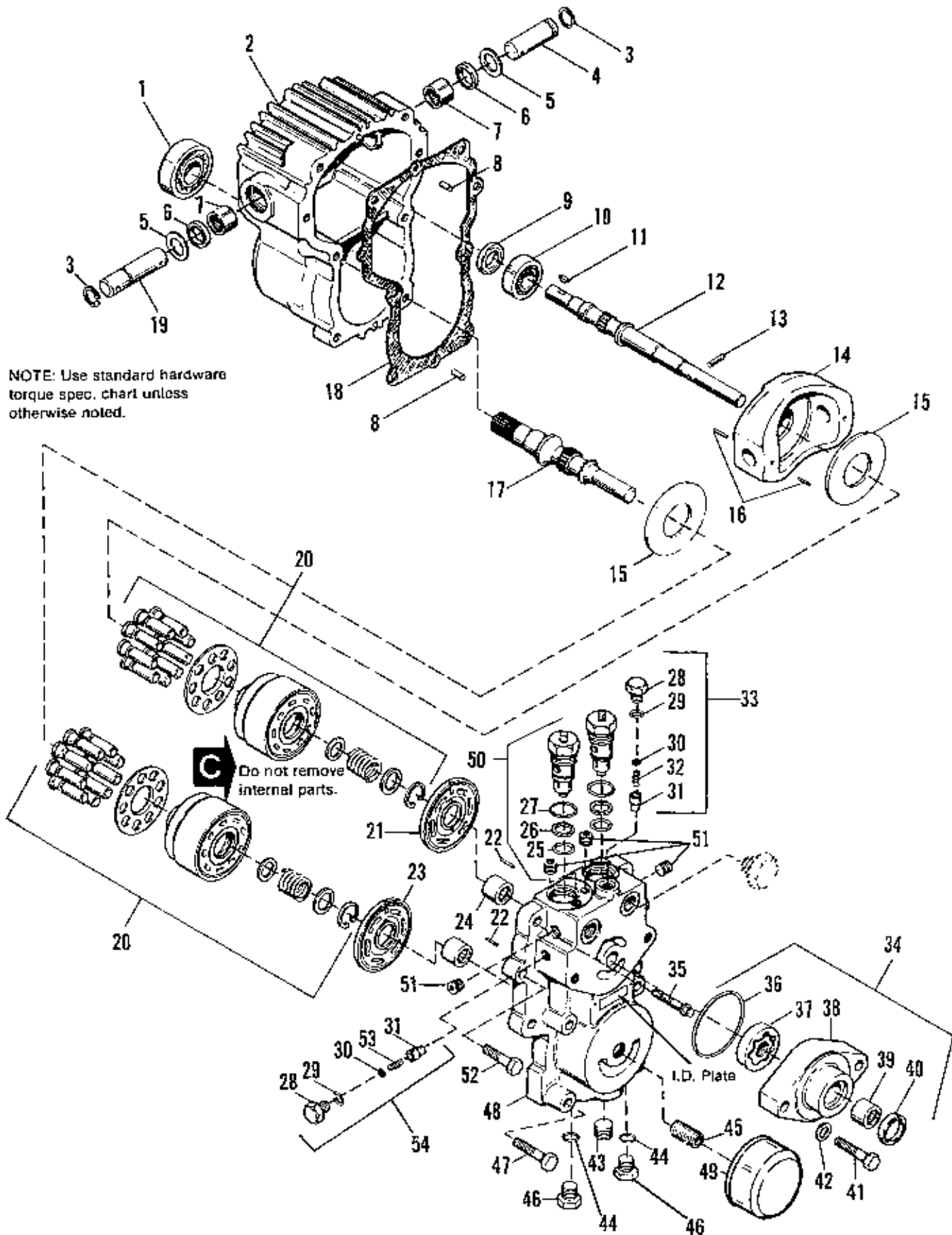
NOTE: Use standard hardware  
torque spec. chart unless  
otherwise noted.

Ref. No.	Part No.	Qty.	Description
1	1923735	4	SCREW, Self-Tapping, #10-3/8
2	178779	1	DEFLECTOR, Shroud
3	1921333	3	CAPSCREW, Hex Hd., 5/16-18 x 1
4	1917642	5	WASHER, Plain, 5/16
5	1917356	2	LOCKWASHER, 5/16
6	1917372	1	NUT, Hex, Full, 5/16-18
7	166022	1	FAN, Pulley
8	1671581	1	HYDRO PUMP, (for Manual Lift Models, see pages 20-21 for Service Parts)
	1671582	1	HYDRO PUMP, (for Hydro Lift Models, see pages 22-23 for Service Parts)
9	1650633	1	SPACER
10	1916965	3	LOCKWASHER, 3/8
11	1925895	3	CAPSCREW, Hex Hd., 3/8-16 x 5
12	1650524	1	SPACER
13	1927428	3	SCREW, Hex, Washer Hd., Taptite, 1/4-20 x 3/8
14	1651089	1	BRACKET
15	1651090	1	LATCH, Release
16	153010	1	SPRING
17	1923362	1	LOCKNUT, Hex, 5/16-18
18	156065	2	WASHER
19	1671229	1	HOSE, Inlet
20	930709	2	CLAMP, Hose
21	1671228	2	ELBOW, Hose Fitting
22	1666415	1	SHROUD ASSY., w/Screen
23	1664847	1	SCREW, Hex, Washer Hd., Taptite, 5/16-18 x 3/4
24	1651703	1	O-RING
25	166003	1	PINION, Motor Shaft
26	1933468	1	WASHER



Ref. No.	Part No.	Qty.	Description
1	1652181	1	BEARING, Ball
2	1673534	1	HOUSING
3	1652192	2	RING, Retainer
4	1652194	1	TRUNNION
5	1652235	2	WASHER, Special
6	1652234	2	SEAL, Lip
7	1652251	2	BEARING, Needle
8	1652185	2	PIN, Headless, Straight
9	1652232	2	SEAL, Lip
10	1652231	1	BEARING, Ball
11	905123	1	KEY, Woodruff
12	1652229	1	SHAFT, Pump
13	1652228	1	PIN, Headless
14	1673533	1	PLATE, Swash
15	1673532	2	PLATE, Thrust
16	1652226	3	PIN, Spring, Coiled
17	1652186	1	SHAFT, Motor
18	1652184	1	GASKET
19	1652183	1	TRUNNION
20	1673535	2	CYLINDER BLOCK KIT
21	1652223	1	PLATE, Valve, Pump
22	1652224	2	PIN, Straight
23	1652189	1	PLATE, Valve, Motor
24	1652222	2	BEARING, Needle
25	1652221	2	O-RING
26	1652220	2	RING, Backup
27	1652219	2	O-RING
28	1652217	2	PLUG, Hex Hd.
29	921884	2	O-RING
30	1652216	1	SHIM
31	1652214	1	CONE, Relief Valve
32	1652253	1	SPRING, Relief Valve
33	1673538	1	RELIEF VALVE KIT (Incl. Ref. Nos. 28-32)
34	1685128	1	CHARGE PUMP KIT (Incl. Ref. Nos. 36-40)
35	1652212	2	CAPSCREW, 12 pt.
36	1652207	1	O-RING
*37		1	GEROTER (See Ref. No. 34)
*38		1	HOUSING, Charge Pump (See Ref. No. 34)
39	1652204	1	BEARING, Needle
40	1652203	1	SEAL, Lip
41	925696	2	CAPSCREW, 7/16-14 x 2
42	1652201	2	WASHER, Flat
43	1671665	1	PLUG, Pipe
44	1652198	2	O-RING
45	1671699	1	UNION, Filter
46	1652197	2	PLUG, Hex Hd.
47	923701	4	CAPSCREW, 3/8-16 x 2
48	1652254	1	SECTION, Center
49	1671234	1	FILTER (Short Canister) 25 Micron
50	1673537	2	CHECK VALVE (Incl. Ref. Nos. 25, 26 & 27)
51	1652213	4	PLUG, Pipe
52	920415	2	CAPSCREW, 3/8-16 x 1-1/4

\*Not Serviced Separately



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

**C** Do not remove internal parts.

I.D. Plate

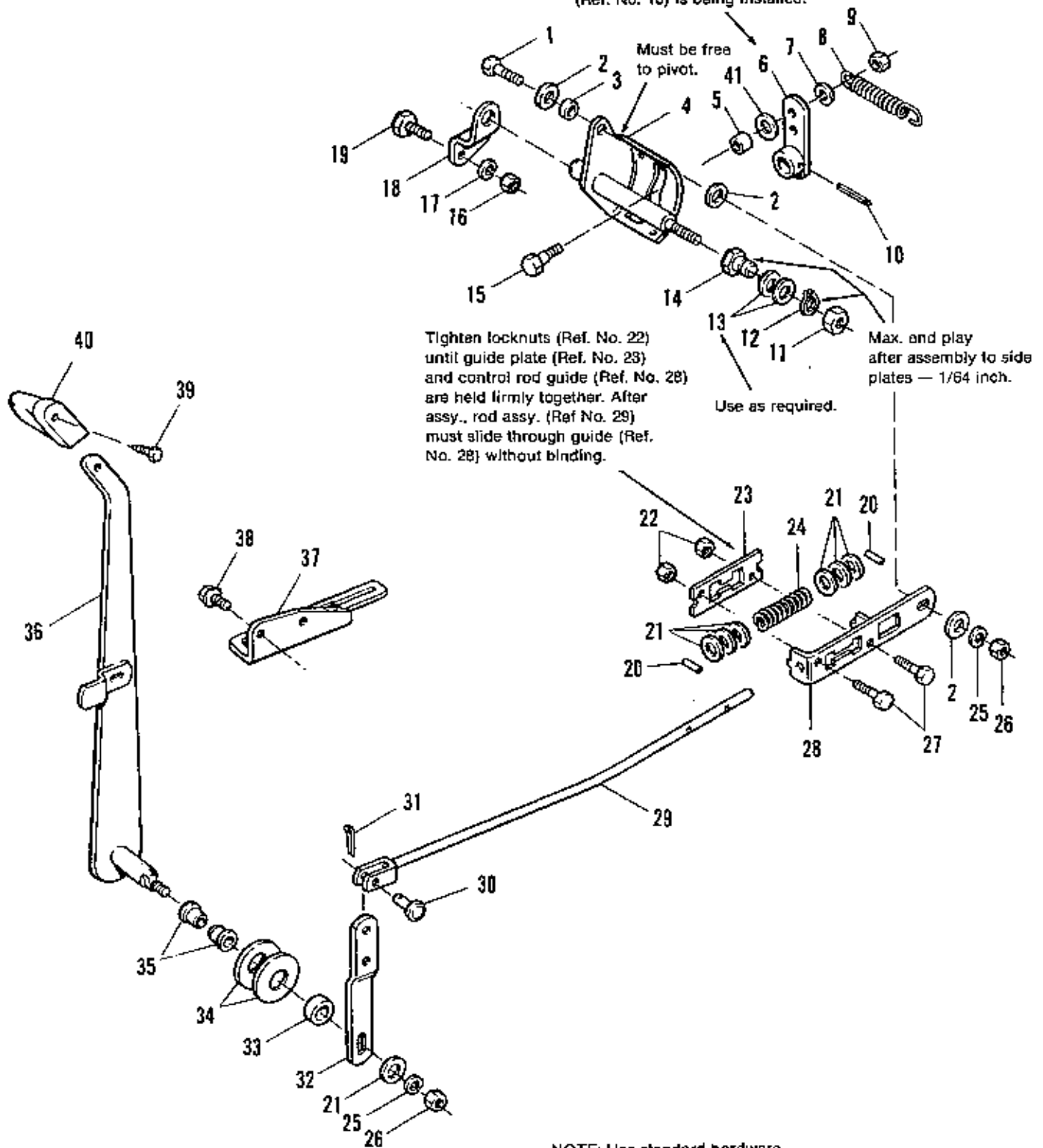


Ref. No.	Part No.	Qty.	Description
1	1652181	1	BEARING, Ball
2	1673534	1	HOUSING
3	1652192	2	RING, Retainer
4	1652194	1	TRUNNION
5	1652235	2	WASHER, Special
6	1652234	2	SEAL, Lip
7	1652251	2	BEARING, Needle
8	1652185	2	PIN, Headless, Straight
9	1652232	2	SEAL, Lip
10	1652231	1	BEARING, Ball
11	905123	1	KEY, Woodruff
12	1652229	1	SHAFT, Pump
13	1652228	1	PIN, Headless
14	1673533	1	PLATE, Swash
15	1673532	2	PLATE, Thrust
16	1652226	3	PIN, Spring, Coiled
17	1652186	1	SHAFT, Motor
18	1652184	1	GASKET
19	1652183	1	TRUNNION
20	1673535	2	CYLINDER BLOCK KIT
21	1652223	1	PLATE, Valve, Pump
22	1652224	2	PIN, Straight
23	1652189	1	PLATE, Valve, Motor
24	1652222	2	BEARING, Needle
25	1652221	2	O-RING
26	1652220	2	RING, Backup
27	1652219	2	O-RING
28	1652217	2	PLUG, Hex Hd.
29	921884	2	O-RING
30	1652216	1	SHIM
31	1652214	1	CONE, Relief Valve
32	1667773	1	SPRING, Relief Valve
33	1667774	1	RELIEF VALVE KIT (Incl. Ref. Nos. 28-32)
34	1685128	1	CHARGE PUMP KIT (Incl. Ref. Nos. 36-40)
35	1652212	2	CAPSCREW, 12 pt.
36	1652207	1	O-RING
*37		1	GEROTER (See Ref. No. 34)
*38		1	HOUSING, Charge Pump (See Ref. No. 34)
39	1652204	1	BEARING, Needle
40	1652203	1	SEAL, Lip
41	925696	2	CAPSCREW, 7/16-14 x 2
42	1652201	2	WASHER, Flat
43	1671665	1	PLUG, Pipe
44	1652196	2	O-RING
45	1671699	1	UNION, Filter
46	1652197	2	PLUG, Hex Hd.
47	923701	4	CAPSCREW, 3/8-16 x 2
48	1652254	1	SECTION, Center
49	1671234	1	FILTER (Short Canister) 25 Micron
50	1673537	2	CHECK VALVE (Incl. Ref. Nos. 25, 26 & 27)
51	1652213	4	PLUG, Pipe
52	920415	2	CAPSCREW, 3/8-16 x 1-1/4
53	1652253	1	SPRING, Relief
54	1673538	1	RELIEF VALVE KIT (Incl. Nos. 28-31, 53)

\*Not Serviced Separately

**M**

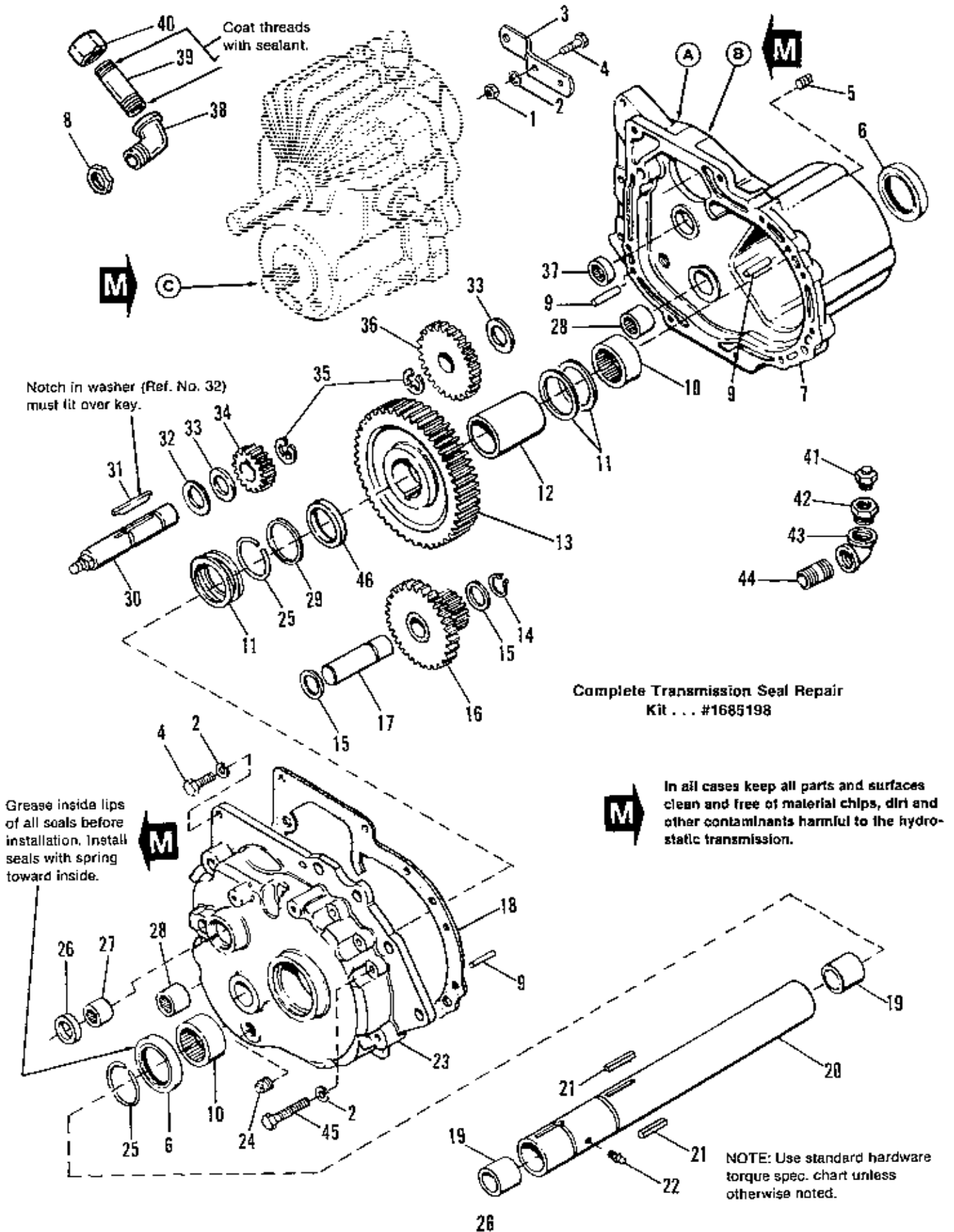
To prevent internal damage to hydrostatic unit, hub of control link assembly (Ref. No. 6) must be supported while roll pin (Ref. No. 10) is being installed.



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

Ref. No.	Part No.	Qty.	Description
1	1921210	1	CAPSCREW, Hex Hd., 3/8-16 x 1
2	1917642	3	WASHER, Plain, 5/16
3	1650506	1	SPACER
4	1650874	1	SHAFT ASSY.
5	1650592	1	ROLLER, Cam
6	1650392	1	LINK ASSY., Control
7	916964	1	LOCKWASHER, 1/4
8	174896	1	SPRING
9	1918622	1	NUT, Hex, Full, 1/4-20
10	916937	1	PIN, Roll, 1/4 x 1-1/4
11	1913744	1	LOCKNUT, Hex, Jam, 1/2-13
12	927794	1	RING, Retaining
13	1664204	2	SHIM (as required)
14	1650872	1	NUT, Adjusting
15	1650621	1	BOLT, Shoulder
16	1917372	2	NUT, Hex, Full, 5/16-18
17	1917356	2	LOCKWASHER, 5/16
18	1650401	1	BRACKET, Pivot
19	1960085	2	SCREW, Special
20	919180	2	PIN, Roll, 1/8 x 5/8
21	1917378	7	WASHER, Plain, 3/8
22	1923358	2	LOCKNUT, Hex, 1/4-20
23	1650713	1	PLATE, Guide
24	1650347	1	SPRING
25	1916965	2	LOCKWASHER, 3/8
26	1916950	2	NUT, Hex, Full, 3/8-16
27	1921961	2	CAPSCREW, Hex Hd., 1/4-20 x 1-1/4
28	1650712	1	GUIDE, Control Rod
29	1650715	1	ROD ASSY., Control
30	153058	1	PIN
31	1918447	1	PIN, Cotter, 3/32 x 3/4
32	1650358	1	LINK
33	1665251	1	SPACER
34	168025	2	WASHER
35	108419	2	BUSHING
36	1665257	1	LEVER ASSY., Control
37	1650360	1	QUADRANT
38	1931648	2	SCREW, Hex, Flange, Whiz, 5/16-18 x 1/2
39	1960106	1	SCREW, Plastite, 1/4-20 x 1-1/4
40	171165	1	KNOB
41	1921319	1	WASHER, Plain, 1/4

**NOTE: Refer to Operator's Manual for Hydrostatic Neutral Adjustment.**



Ref. No.	Part No.	Qty.	Description
1	1917372	2	NUT, Hex, Full, 5/16-18
2	1917356	11	LOCKWASHER, 5/16
3	1667171	1	SUPPORT, Spring
4	1921333	7	CAPSCREW, Hex Hd., 5/16-18 x 1
5	901652	1	PLUG, Pipe
6	154269	2	SEAL
7	1650429	1	CASE ASSY., w/Bearings
8	1932849	1	LOCKNUT, 3/8, Rigid Conduit
9	1927609	2	PIN, Roll, 3/8 x 1
10	1652469	2	BEARING
11	154097	4	WASHER
12	*1651512	1	SPACER, Axle, L.H.
	**166041	1	SPACER, Axle, L.H.
13	*1652604	1	GEAR, Drive
	**1670857	1	GEAR, Drive
14	166017	1	RING, Retaining
15	166016	2	WASHER
16	176236	1	PINION & SHAFT ASSY.
17	166012	1	SHAFT, Intermediate
18	166043	1	GASKET
19	1653120	2	BUSHING
20	*1651517	1	TUBE ASSY., Axle
	**1670864	1	TUBE ASSY., Axle
21	*156086	2	KEY
	**154096	2	KEY
22	912808	1	FITTING, Grease
23	1650427	1	COVER ASSY., Grease Case w/Bearings
24	1673452	1	PLUG, Pipe
25	154268	2	RING, Retaining
26	166021	1	SEAL
27	166019	1	BEARING
28	166018	2	BEARING, Needle
29	166167	1	WASHER
30	1650775	1	SHAFT, Brake
31	166014	1	KEY
32	1651078	1	WASHER
33	166013	2	WASHER
34	178243	1	PINION
35	176980	2	RING, Retaining
36	166004	1	GEAR
37	154271	1	BEARING, Needle
38	1673453	1	ELBOW, Street
39	901493	1	NIPPLE, Pipe
40	1667346	1	CAP, Pipe
41	172899	1	VALVE, Relief
42	901825	1	BUSHING, Pipe
43	901677	1	ELBOW, Pipe
44	901480	1	NIPPLE, Pipe
45	1921978	4	CAPSCREW, Hex Hd., 5/16-18 x 2
46	**168040	1	SPACER, Axle, R.H.

\* Used on Mfg. No. 1691382 after serial no. 2640 and before serial no. 3029.

\*\* Used on Mfg. No. 1691382 before serial no. 2641 and after serial no. 3028 and all Mfg. No. 1691717 & 1691957.

#### HYDROSTATIC TRANSMISSION

A. Mask hydrostatic mounting surface and cover hole prior to painting.

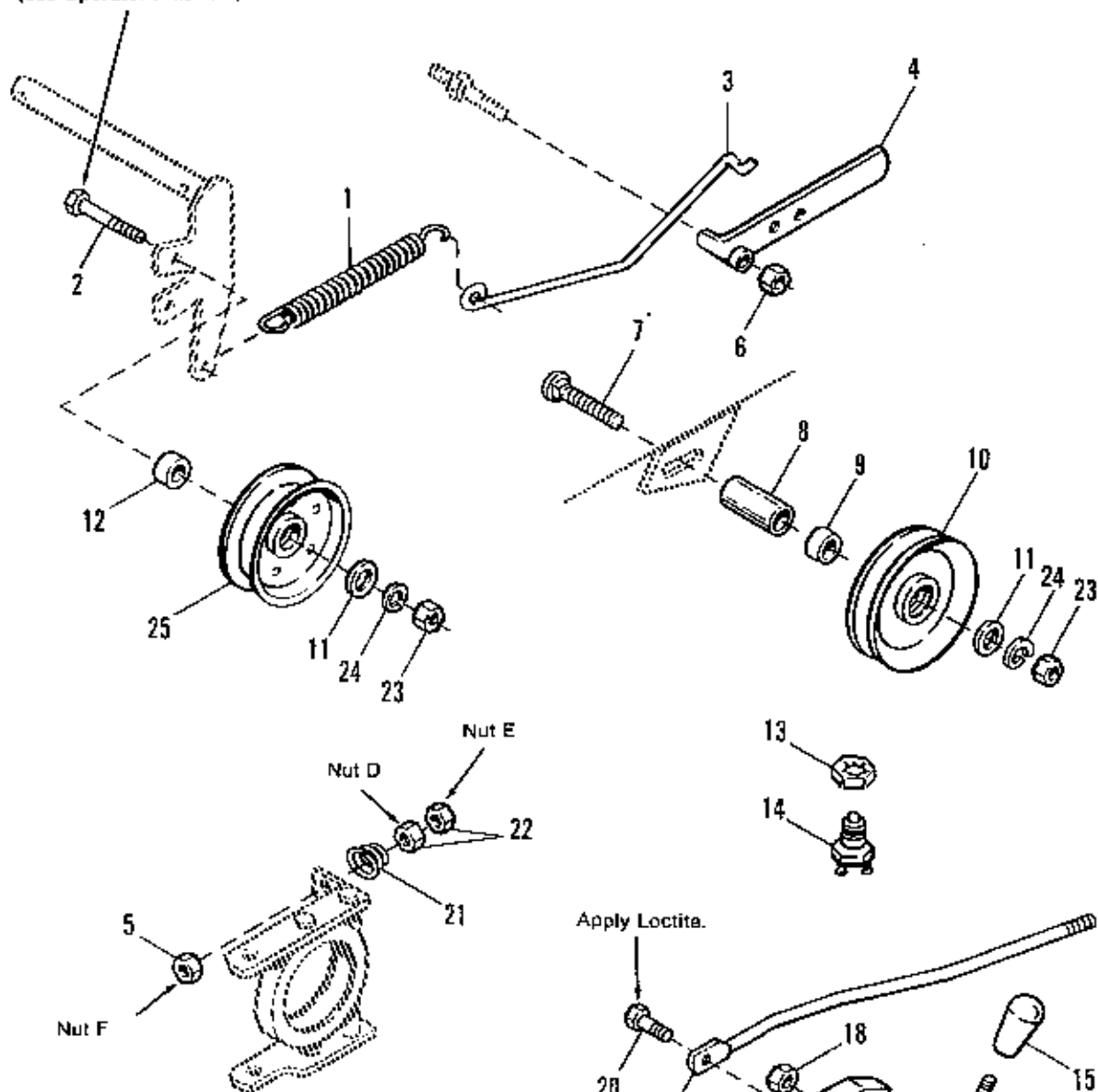
B. Use gasket eliminator and place 1/8 inch bead all around.

1. Make sure "O" ring on pilot bearing stays in place until assy. is complete.

2. After contact is made with gasket material, complete assy. in a manner that will prevent smearing of gasket material.

C. Clean mating surface with LocQuic primer NF by spraying and wiping with a clean cloth to remove contamination. If part is assembled within 30 minutes no additional treatment is required. Otherwise spray thin film onto surface. Permit to visibly dry.

Mount in upper hole for  
mower drive. Use lower hole  
for snowthrower mounting  
(see Operator's Manual).



### Center PTO Adjustment:

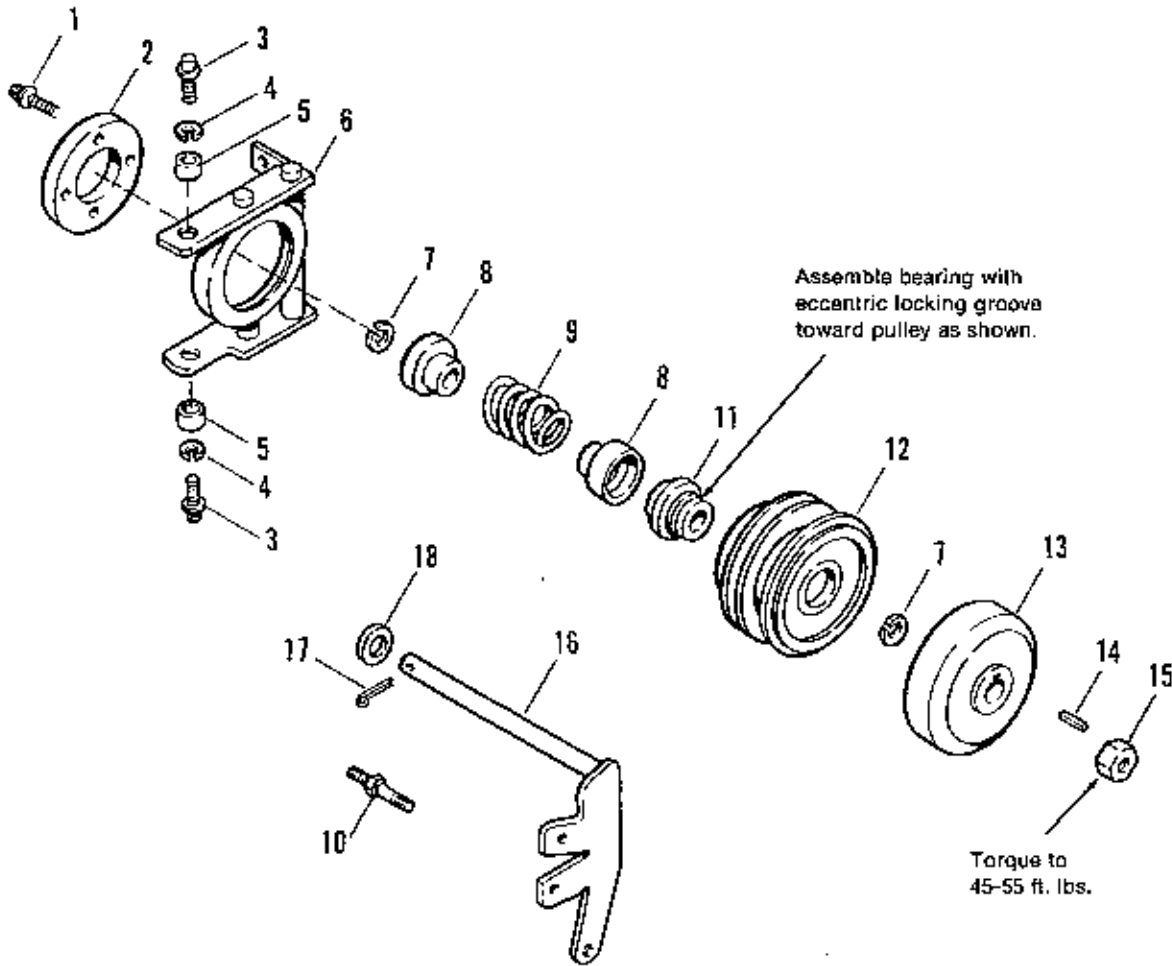
1. Adjust PTO Adjustment nut "D" until pulley travel from engaged to disengaged position equals  $1/16 \pm 1/32$  inch.
2. Secure adjustment by locking nuts "D" and "E" together.
3. Check clutch for proper disengagement.
4. Adjust locknut "F" for  $1/8$  inch between pivot arm and face of locknut "F" when clutch is disengaged.

Ref. No. 19 must rotate freely on Ref. No. 20 after Ref. No. 20 is tightened.

Adjust P.T.O. interlock switch (Ref. No. 14) to make contact when lever (Ref. No. 17) is resting against top of frame.

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

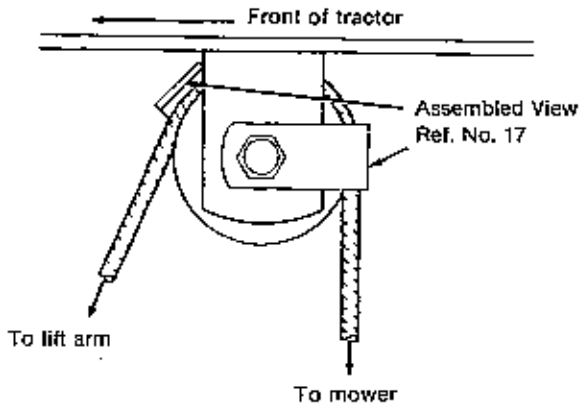
Ref. No.	Part No.	Qty.	Description
1	1666786	1	SPRING, Tension
2	1923701	1	CAPSCREW, Hex Hd., 3/8-16 x 2
3	1671424	1	ROD, Tension
4	164155	1	HANDLE ASSY.
5	1923362	1	LOCKNUT, Hex, 5/16-18
6	1924058	1	LOCKNUT, Hex, 7/16-14
7	1931353	1	BOLT, Carriage, 3/8-16 x 1-3/4
8	1667811	1	SPACER
9	1666294	1	SPACER
10	1665440	1	PULLEY ASSY., w/ Bearings
11	1924940	2	WASHER, Plain, 3/8
12	1667812	1	SPACER
13	1930647	1	NUT, Pal
14	177522	1	SWITCH, Interlock
15	172038	1	KNOB
16	174664	1	HANDLE, PTO, Clutch
17	173991	1	LEVER
18	1930651	1	LOCKNUT, Hex, 3/8-16
19	1671323	1	ROD ASSY., Control
20	174686	1	CAPSCREW, Special
21	157127	1	SPRING
22	1917372	2	NUT, Hex, Full, 5/16-18
23	1916950	2	NUT, Hex, Full, 3/8-16
24	1916965	2	LOCKWASHER, 3/8
25	1606554	1	PULLEY, Idler



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



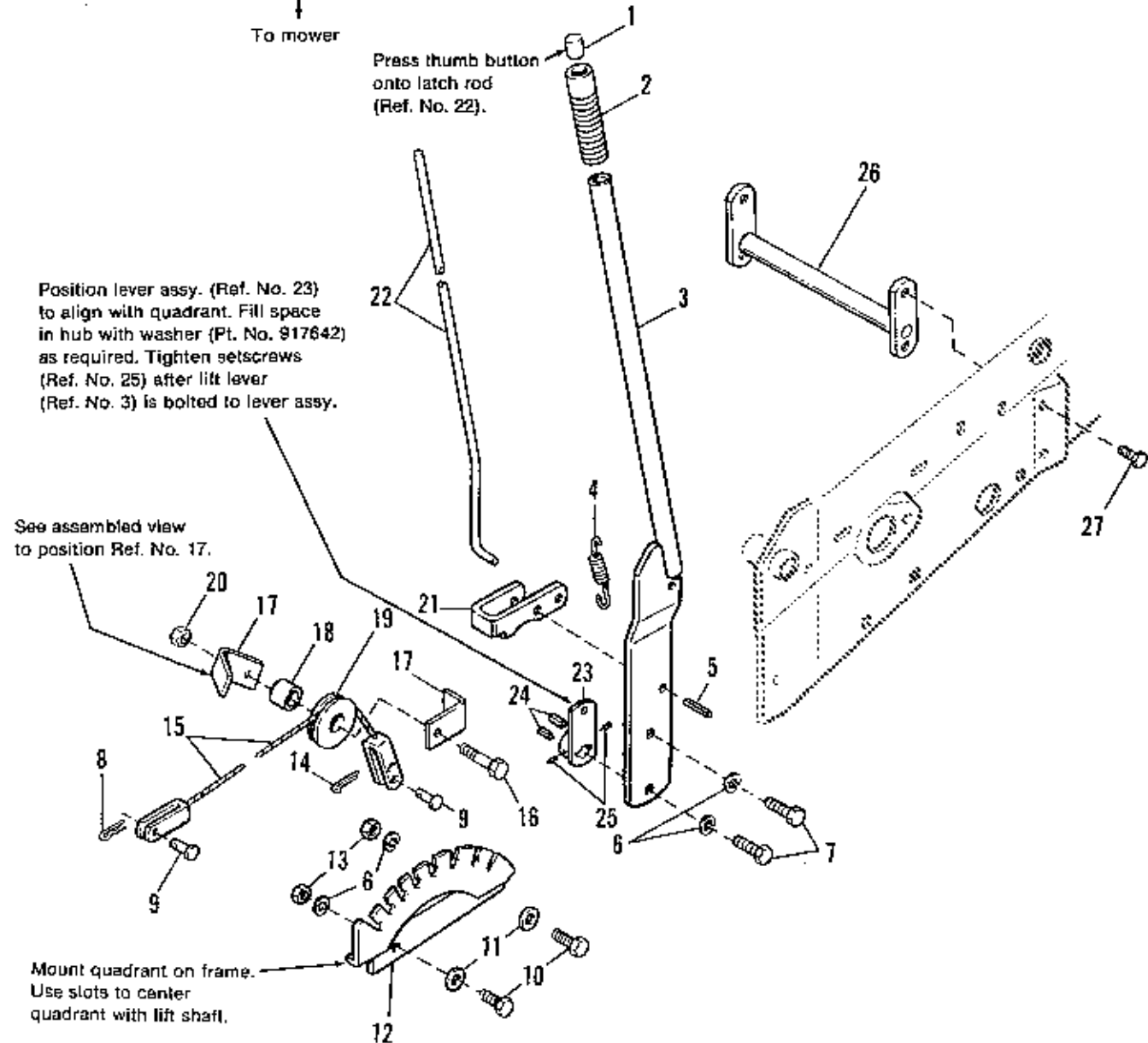
Ref. No.	Part No.	Qty.	Description
1	920036	4	CAPSCREW, Socket Hd., 1/4-20 x 5/8
2	173957	1	DISC, Brake
3	1651450	2	SCREW, Thd. Forming
4	917356	2	LOCKWASHER, 5/16
5	171371	2	SPACER
6	1650906	1	PIVOT ASSY.
7	172206	2	RING, Retaining
8	1671339	2	GUIDE, Spring
9	171772	1	SPRING
10	157273	1	STUD
11	1650254	1	BEARING ASSY.
12	1650304	1	PULLEY
13	174862	1	PLATE ASSY., Clutch
14	905123	1	KEY
15	1922133	1	LOCKNUT, Hex, 3/4-16
16	1666781	1	ARM ASSY., Pivot
17	1918459	1	PIN, Cotter, 3/16 x 1-1/2
18	1919387	1	WASHER



After Assembly:

A-142

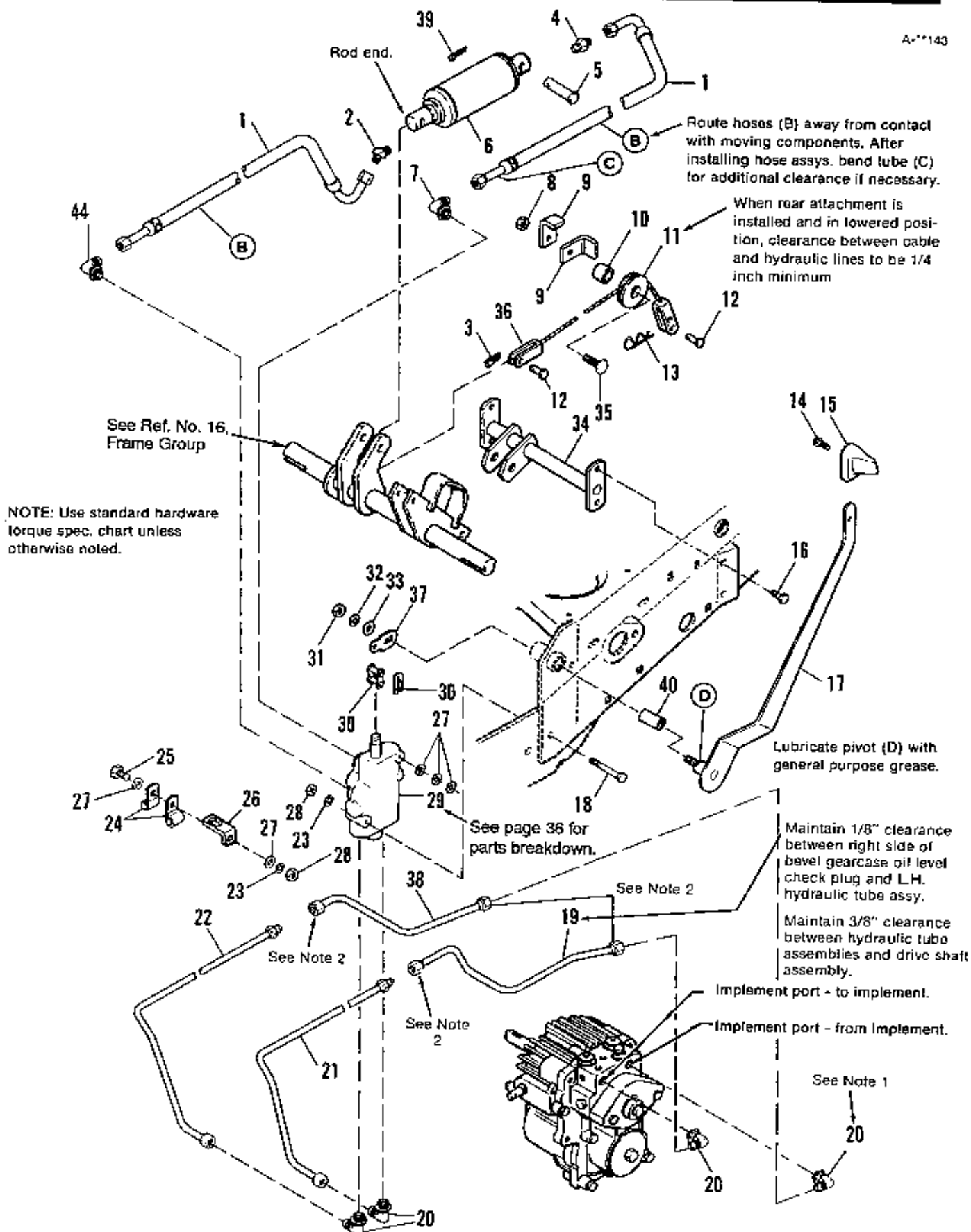
1. Lift Lever must rotate through full range of quadrant without binding.
2. Latch must operate freely and engage with all notches on quadrant.
3. Lift lever must not interfere with hood.



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

## Lift Lever &amp; Cable Group

Ref. No.	Part No.	Qty.	Description
1	1650157	1	BUTTON
2	156209	1	GRIP
3	1666257	1	LEVER ASSY., Lift
4	1650155	1	SPRING
5	918390	1	PIN, Spring, 3/8 x 1-1/4
6	1916965	4	LOCKWASHER, 3/8
7	1923490	2	CAPSCREW, Hex Hd., 3/8-16 x 1
8	1918196	1	CLIP, Spring
9	153058	2	PIN
10	1921966	2	CAPSCREW, Hex Hd., 3/8-16 x 7/8
11	1917642	2	WASHER, Plain, 5/16
12	171599	1	QUADRANT
13	1916950	2	NUT, Hex, Full, 3/8-16
14	1918447	1	PIN, Cotter, 3/32 x 3/4
15	1673700	1	CABLE ASSY., Lift
16	108418	1	SCREW, Special
17	174723	2	GUARD, Cable
18	157081	1	SPACER
19	172725	1	PULLEY
20	1928731	1	LOCKNUT, Hex, Jam, 3/8-16
21	173039	1	LATCH, Lift Lever
22	1666663	1	ROD LATCH
23	171593	1	LEVER ASSY., Lift
24	157652	2	KEY
25	1928734	2	SETSCREW, 5/16-18 x 1/4
26	1673393	1	SUPPORT ASSY.
27	1923683	4	SCREW, Self-Tapping, 3/8 x 3/4

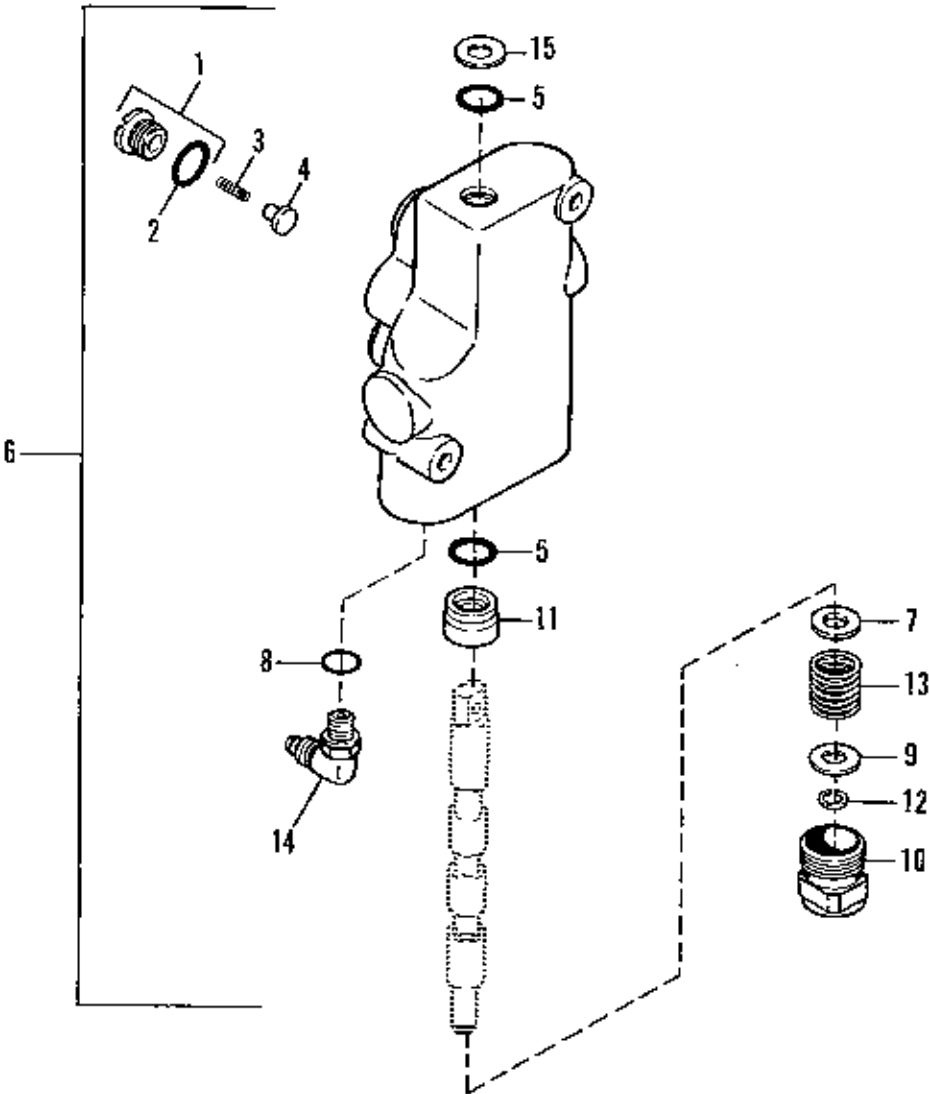


Ref. No.	Part No.	Qty.	Description
1	1667408	2	HOSE, Hydraulic
2	935046	1	ELBOW, 45° Male
3	918448	1	PIN, Cotter, 3/32 x 1
4	919766	1	CONNECTOR, 37° Male
5	171690	2	PIN
6	1667409	1	CYLINDER, Hydraulic
7	928812	2	ELBOW, Adjustable, 37°
8	928731	1	LOCKNUT, Hex, Jam, 3/8-16
9	174723	2	GUARD, Cable
10	157081	1	SPACER
11	172725	1	PULLEY
12	153058	2	PIN
13	918196	1	CLIP, Spring
14	1960106	1	SCREW, Hex, Wash. Hd., Plasteel, 1/4 x 1
15	171165	1	KNOB
16	923683	4	SCREW, Hex, Wash. Hd., Taptite, 3/8-16 x 3/4
17	1667270	1	LEVER ASSY.
18	921159	2	CAPSCREW, Hex Hd., 1/4-20 x 2
19	1667437	1	TUBE ASSY.
20	922523	2	ELBOW, Adjustable, 37°
21	1668883	1	TUBE ASSY.
22	1668882	1	TUBE ASSY.
23	916964	3	LOCKWASHER, 1/4
24	926917	2	CLAMP
25	921961	1	CAPSCREW, Hex Hd., 1/4-20 x 1-1/4
26	108186	1	CLIP
27	921319	5	WASHER, Plain, 1/4
28	916622	3	NUT, Hex, Full, 1/4-20
29	1673625	1	CONTROL VALVE ASSY. (See page 46)
30	171101	1	LINK, Connecting
31	916950	1	NUT, Hex, Full, 3/8-16
32	916965	1	LOCKWASHER, 3/8
33	917378	1	WASHER, Plain, 3/8
34	1667269	1	SUPPORT ASSY.
35	108418	1	SCREW, Special
36	1673700	1	CABLE ASSY.
37	1667261	1	BELLCRANK
38	1667435	1	TUBE ASSY.
39	918452	2	PIN, Cotter
40	158544	1	BEARING

**ASSEMBLY NOTES**

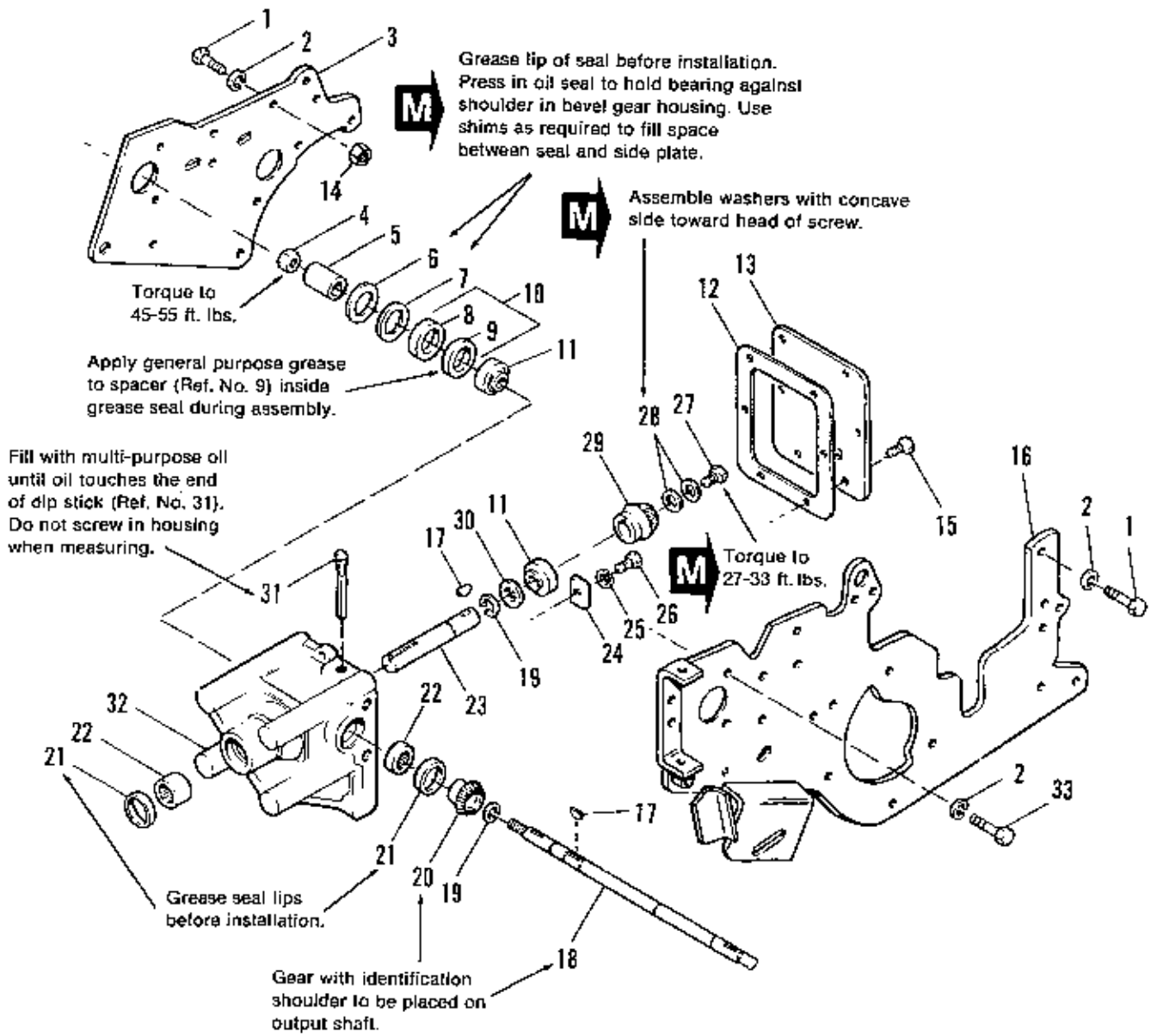
**Important:** Take special care that no dirt or foreign material is allowed to enter hydraulic circuit during assembly of fittings.

1. To install swivel fittings (Ref. No. 20), first lubricate O-ring with light oil. Then turn swivel nut until O-ring is seated. Turn fitting by hand to align with tube nut.
2. To install tubes, first align threaded fitting with tube nut. Then thread nut onto fitting and tight. Hold fitting and turn nut with wrench to seal joint.



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Ref. No.	Part No.	Qty.	Description
1	174131	1	PLUG ASSEMBLY
2	174133	1	O-RING
3	174134	1	SPRING
4	174130	1	PLUNGER, Lift Check
5	174140	2	O-RING
6	1673825	1	VALVE ASSEMBLY
7	1673936	1	WASHER
8	1667825	2	O-RING
9	1673833	1	SPACER
10	1673834	1	CAP
11	174137	1	BUSHING
12	1673837	1	RING, Retaining
13	1673835	1	SPRING
14	922523	2	ELBOW
15	1679138	1	WIPER SEAL
	1667826	1	SEAL KIT (Includes Ref. No. 2, 5, 8, 15)

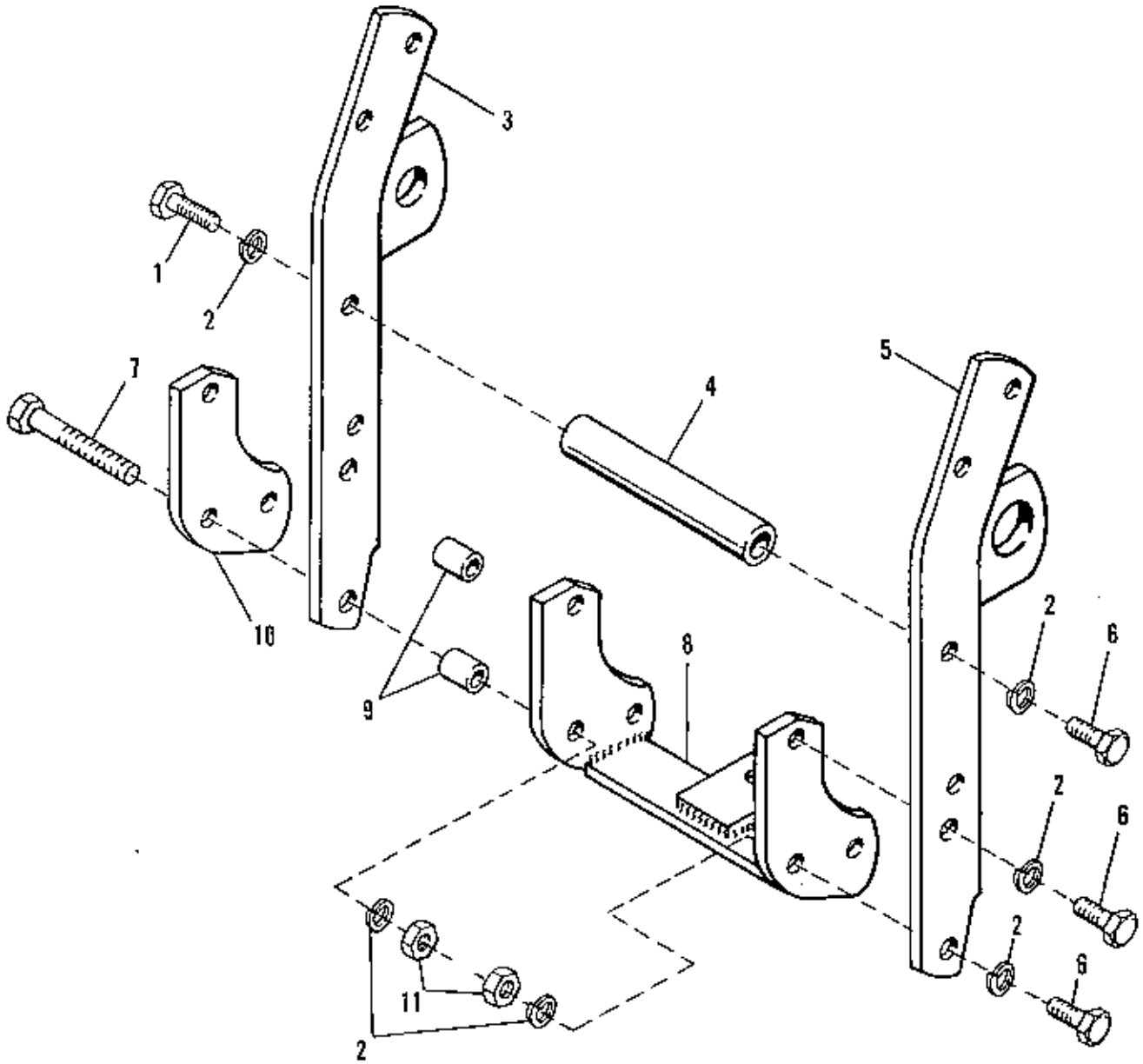


NOTE: Use standard hardware torque spec. chart unless otherwise noted.



Ref. No.	Part No.	Qty.	Description
1	1920677	6	CAPSCREW, Hex Hd., 7/16-14 x 1-1/4
2	1918199	12	LOCKWASHER, 7/16
3	1650414	1	PLATE, Side, RH
4	1922133	1	LOCKNUT, Hex, Jam, 3/4-16
5	171792	1	SPACER
6	171790	5	SHIM
7	171791	1	SHIM
8	171787	1	SEAL, Oil
9	1663111	1	SPACER, Seal, Oil
*10	1685088	1	REPAIR KIT, Seal
11	172256	2	BEARING, Ball
12	154282	1	GASKET
13	178104	1	COVER
14	1918213	3	NUT, Hex, 7/16-14 x 1
15	1930526	6	CAPSCREW, Hex Hd., 1/4-20 x 5/8
16	1671667	1	PLATE ASSY., Side, LH
17	905123	2	KEY, Woodruff, #9
18	1657178	1	SHAFT, Driven
19	172206	2	RING, Retaining
20	171796	1	GEAR, Bevel, Driven
21	118117	2	SEAL, Oil
22	154279	2	BEARING, Needle
23	172750	1	SHAFT, Driver
24	154040	1	PLATE, Bearing, Clamp
25	1917356	1	LOCKWASHER, 5/16
26	1925205	1	CAPSCREW, Hex Hd., 5/16-18 x 5/8
27	154261	1	CAPSCREW, Hex Hd., 5/16-18 x 3/4
28	177649	2	WASHER
29	172752	1	GEAR, Bevel, Driver
30	172753	1	WASHER
31	178105	1	PLUG ASSY.
32	171797	1	HOUSING, Bevel Gear
33	1920676	6	CAPSCREW, Hex Hd., 7/16-14 x 1

\*Ref. No. 10 includes Ref. Nos. 8 & 9.



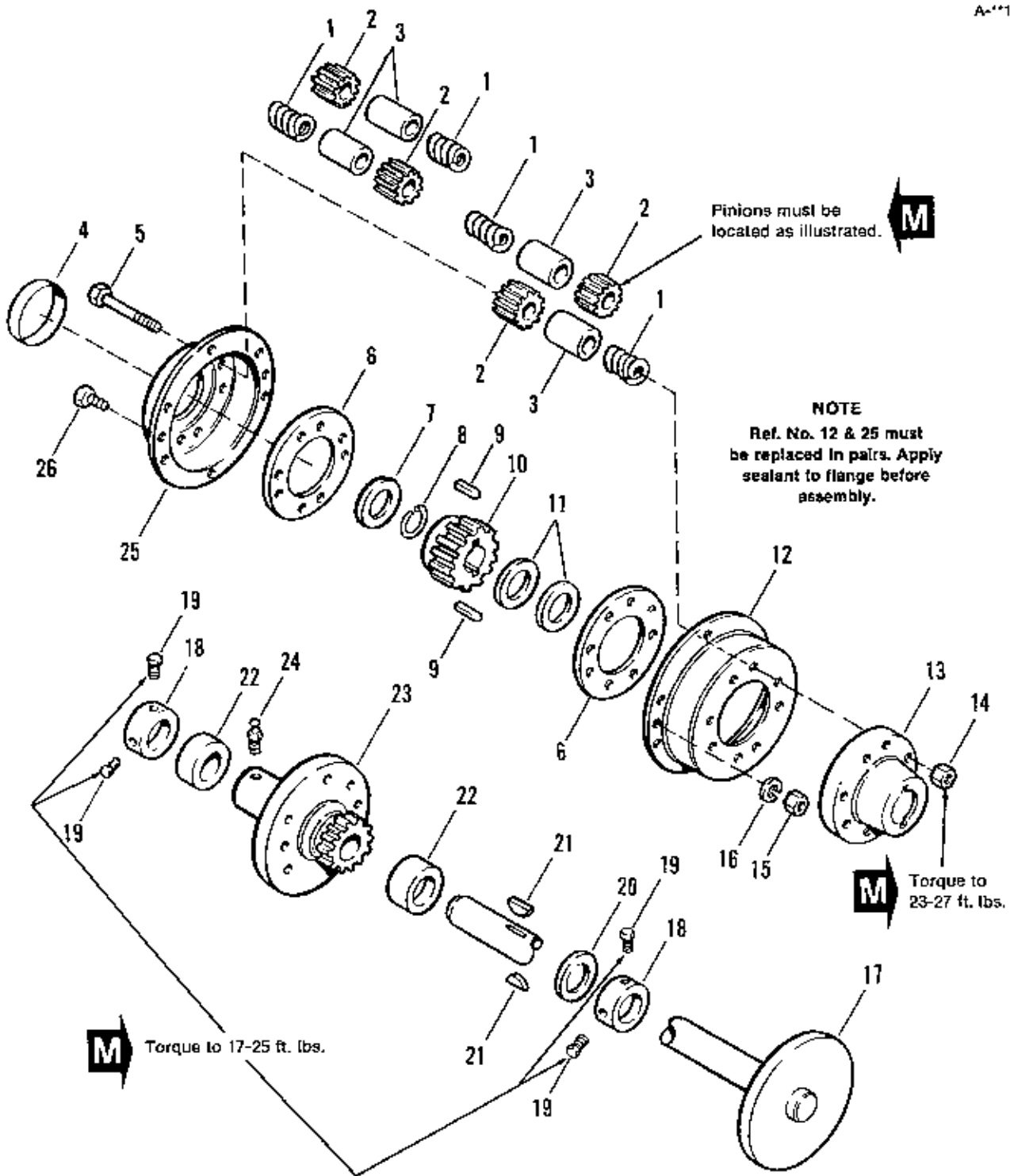
NOTE: Use standard hardware torque spec. chart unless otherwise noted.

## Draw Bar Group

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Ref. No.	Part No.	Qty.	Description
1	1923027	1	CAPSCREW, Hex Hd., 7/16-14 x 1-3/4
2	1918199	6	LOCKWASHER, 7/16
3	166072	1	BAR ASSY., Upright
4	166110	1	SPACER
5	166206	1	BAR ASSY., Upright
6	1920677	3	CAPSCREW, Hex Hd., 7/16-14 x 1-1/4
7	1928110	2	CAPSCREW, Hex Hd., 7/16-14 x 2-3/4
8	166074	1	BAR ASSY., Draw
9	1608759	2	SPACER
10	166075	1	PLATE
11	1918213	4	NUT, Hex, Full, 7/16-14

A-149



Pinions must be located as illustrated. **M**

**NOTE**  
Ref. No. 12 & 25 must be replaced in pairs. Apply sealant to flange before assembly.

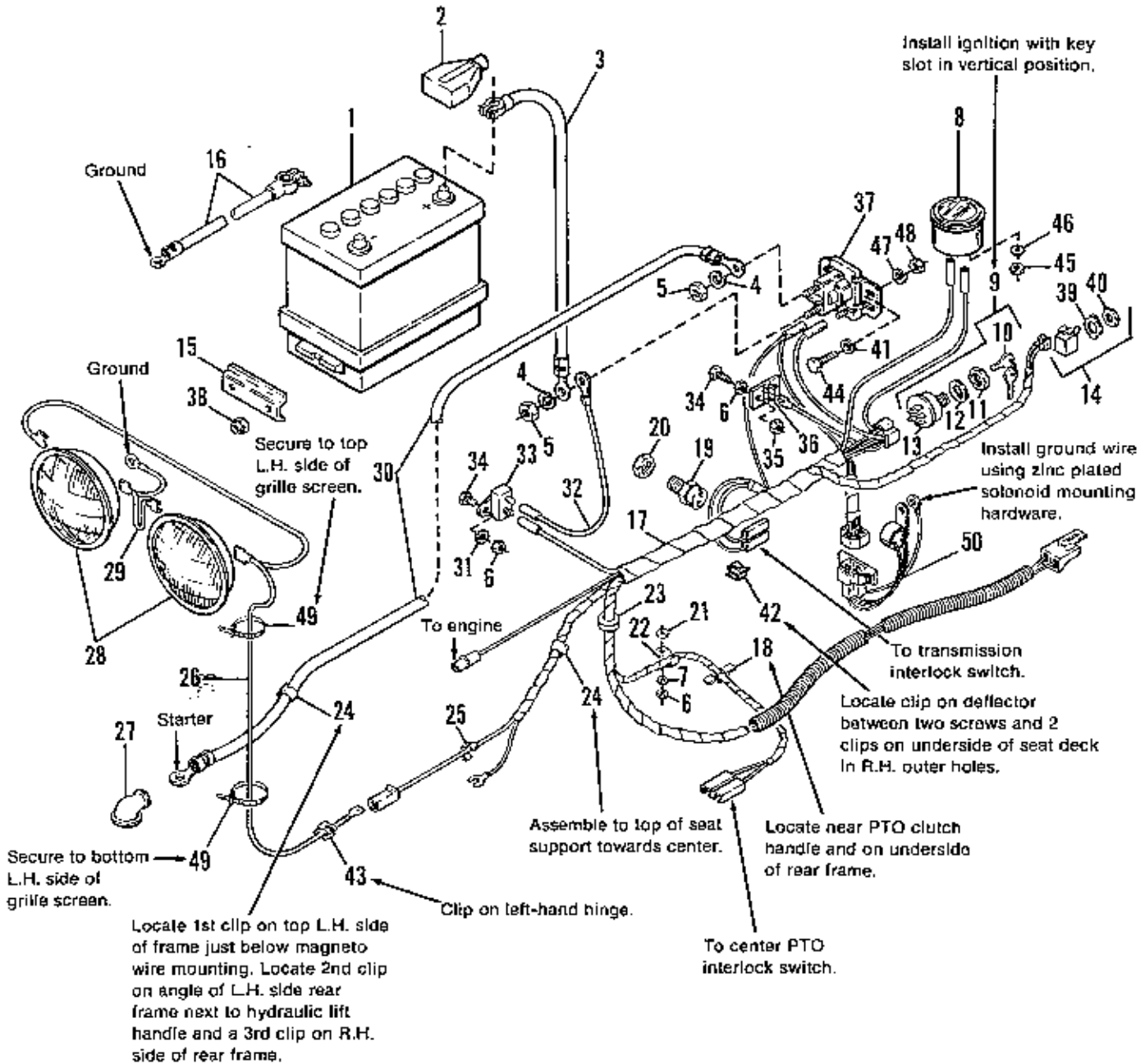
**M** Torque to 17-25 ft. lbs.

**M** Torque to 23-27 ft. lbs.

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

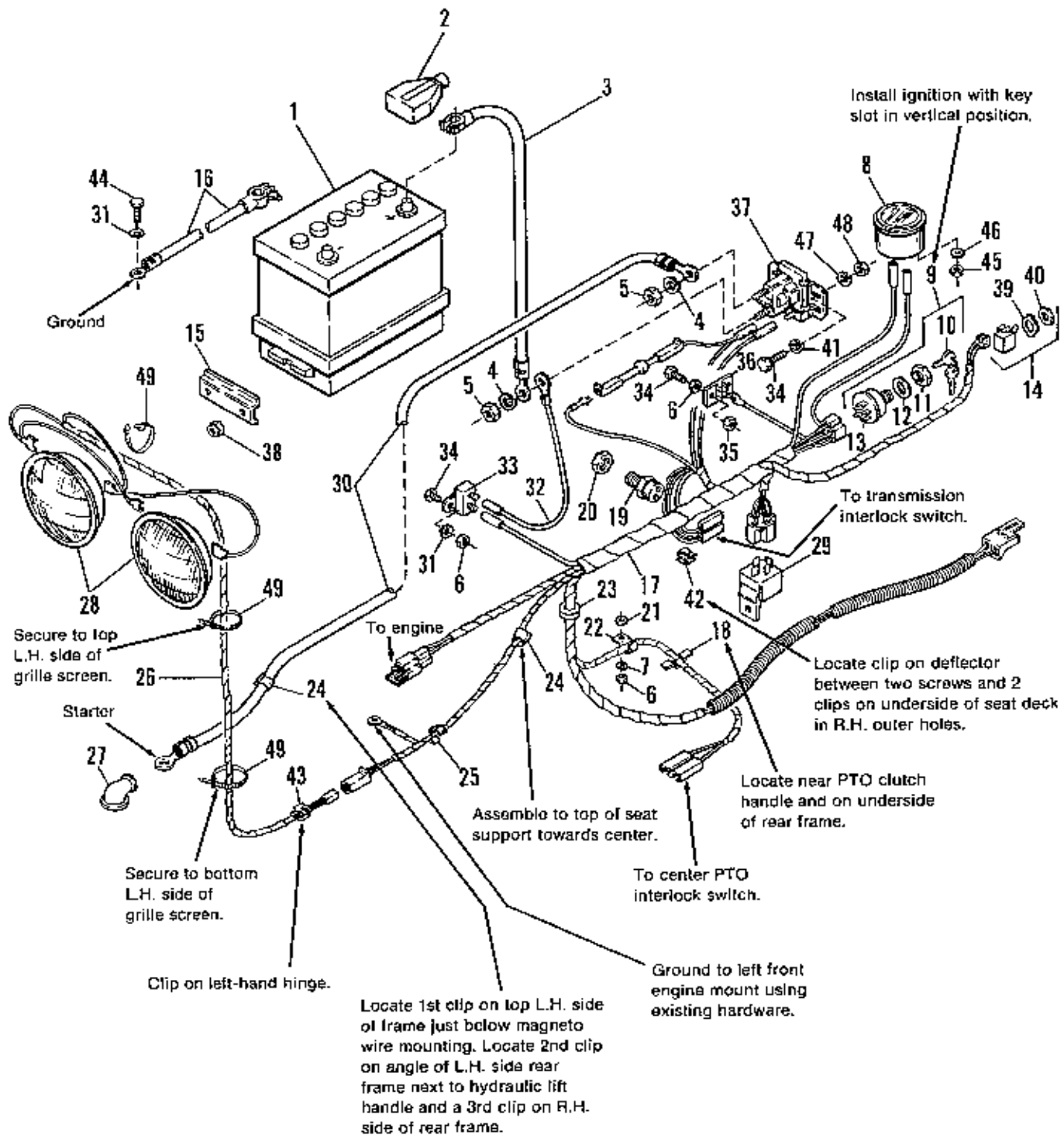
Ref. No.	Part No.	Qty.	Description
*1	162085	8	SPRING
*2	158579	8	PINION, Differential
*3	121083	8	SPINDLE, Differential
*4	121190	1	SEAL, Cover
*5	921972	8	CAPSCREW, Hex Hd., 3/8-16 x 2-1/2
*6	171517	2	RING, Spacer
7	154277	1	WASHER
8	154291	1	RING, Retaining
9	157120	2	KEY, Drive
10	177041	1	GEAR, Differential
11	960190	2	WASHER
*12	171853	1	COVER, Differential
*13	164217	1	CARRIER, Differential
*14	930651	8	LOCKNUT, Hex, 3/8-16
*15	916622	6	NUT, Hex, Full, 1/4-20
*16	916964	6	LOCKWASHER, 1/4
17	177900	1	AXLE ASSY., Rear
18	154065	2	COLLAR, Set
19	1928721	4	SETSCREW, 5/16-18 x 1/2
20	105050	1	WASHER
21	930671	2	KEY, Hi-Pro
22	153068	2	BEARING
23	178945	1	HUB ASSY., Wheel, RH
24	915019	1	FITTING, Grease
*25	171854	1	COVER, Differential
*26	1921959	6	CAPSCREW, Hex Hd., 1/4-20 x 5/8
	1650519	1	DIFFERENTIAL SUBASSY. (See Note Below)

**\*NOTE: Differential Subassembly (1650519) Includes Ref. Nos. 1, 2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 25 & 26.**



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

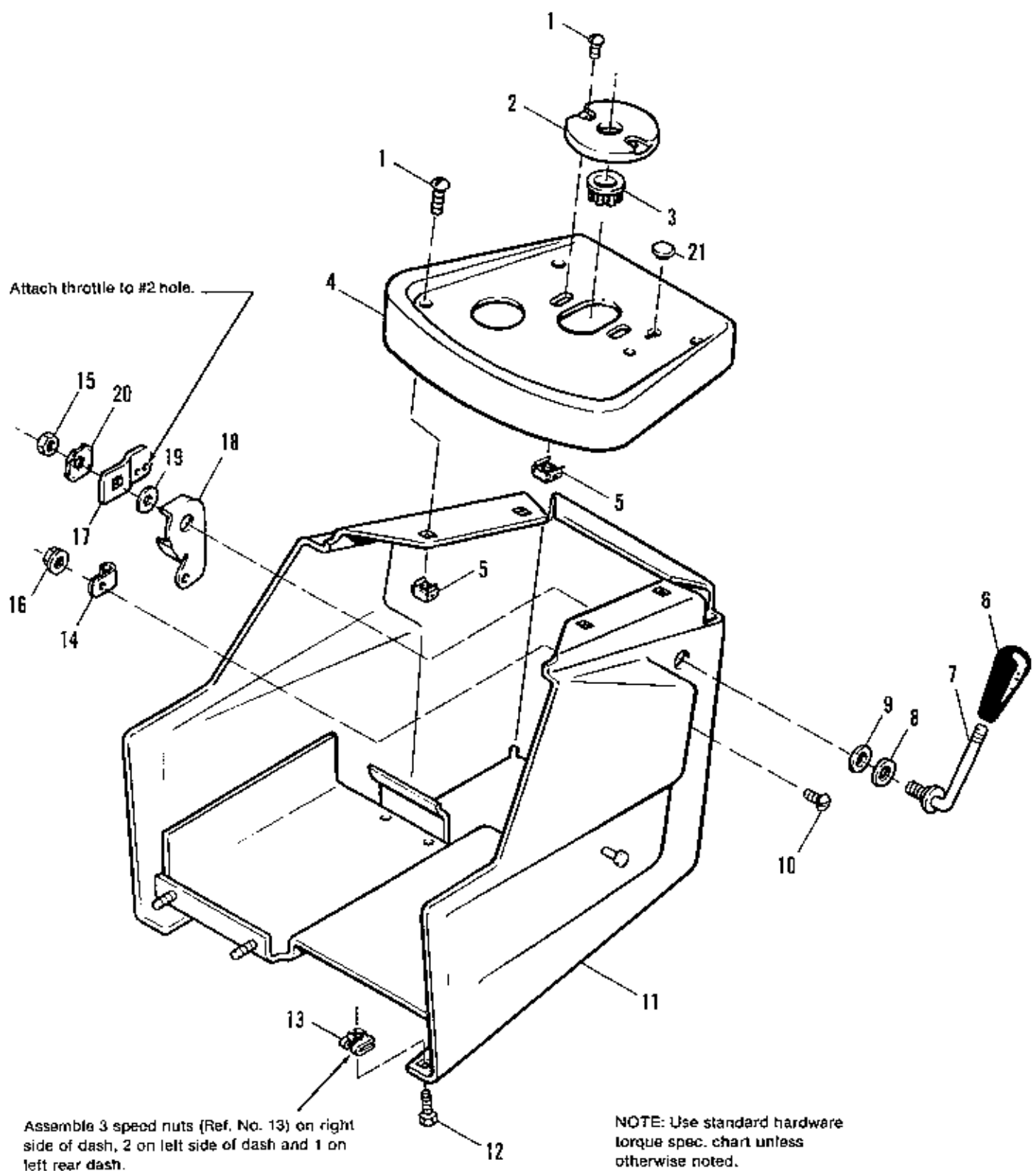
Ref. No.	Part No.	Qty.	Description
1	1685058	1	BATTERY (Includes decal)
2	1669827	1	INSULATING CABLE BOOT
3	1665235	1	CABLE (Battery to Solenoid)
4	1920263	2	LOCKWASHER, 5/16
5	1917372	2	NUT, Hex, 5/18
6	1916622	6	NUT, Hex, Full, 1/4-20
7	1916964	3	LOCKWASHER, 1/4
8	1603189	1	AMMETER
9	178280	1	SWITH & KEY ASSY., Ignition (Incl. Ref. Nos. 10-13)
10	122203	1	KEY SET (2)
11	122234	1	NUT, Special
12	918906	1	LOCKWASHER, Int., 5/8
13		1	SWITCH, Ignition (See Ref. No. 9)
14	122184	1	SWITCH, Toggle
15	171225	1	CLAMP
16	171811	1	CABLE (Battery to Ground)
17	1701263	1	HARNES ASSY.
18	176912	1	CLIP, Wire
19	177522	1	SWITCH, Interlock
20	1930647	1	NUT, Pal
21	924356	1	WASHER, Plain
22	932771	1	CLIP, Cable
23	172175	1	GROMMET
24	172434	4	CLIP, Tinnerman
25	172436	1	CLIP, Tinnerman
26	1666665	1	WIRE ASSY.
27	122023	1	COVER, Terminal
28	1665853	2	LAMP, Sealed Beam, G.E. #4411-1
29	1666731	1	WIRE ASSY.
30	1666328	1	CABLE (Solenoid to Starter)
31	921880	1	LOCKWASHER, Ext., 1/4
32	1685237	1	WIRE ASSY.
33	1665238	1	BREAKER, Circuit
34	1921959	3	CAPSCREW, Hex Hd., 1/4-20 x 5/8
35	1923358	2	LOCKNUT, Hex, 1/4-20
36	1665230	1	BOARD, Terminal
37	1685290	1	SOLENOID, Starter
38	924433	2	LOCKNUT, Hex, Esna, 5/16-18
39	1650878	1	PLATE
40	1650880	1	NUT, Switch
41	921319	2	WASHER, Special, 1/4
42	934683	3	CLIP, Wire
43	176675	1	CLIP, Speed Cable
44	916622	2	CAPSCREW, Hex Hd., 1/4-20 x 5/8 (Zinc Pltd.)
45	1917415	2	NUT, Hex, #10-32
46	1922711	2	LOCKWASHER, Ext. Tooth
47	916964	2	LOCKWASHER, 1/4 (Zinc Pltd.)
48	916622	2	NUT, Hex, 1/4-20 (Zinc Pltd.)
49	932747	2	TIE
50	1672654	1	MODULE, Interlock
51	165073	1	CLIP



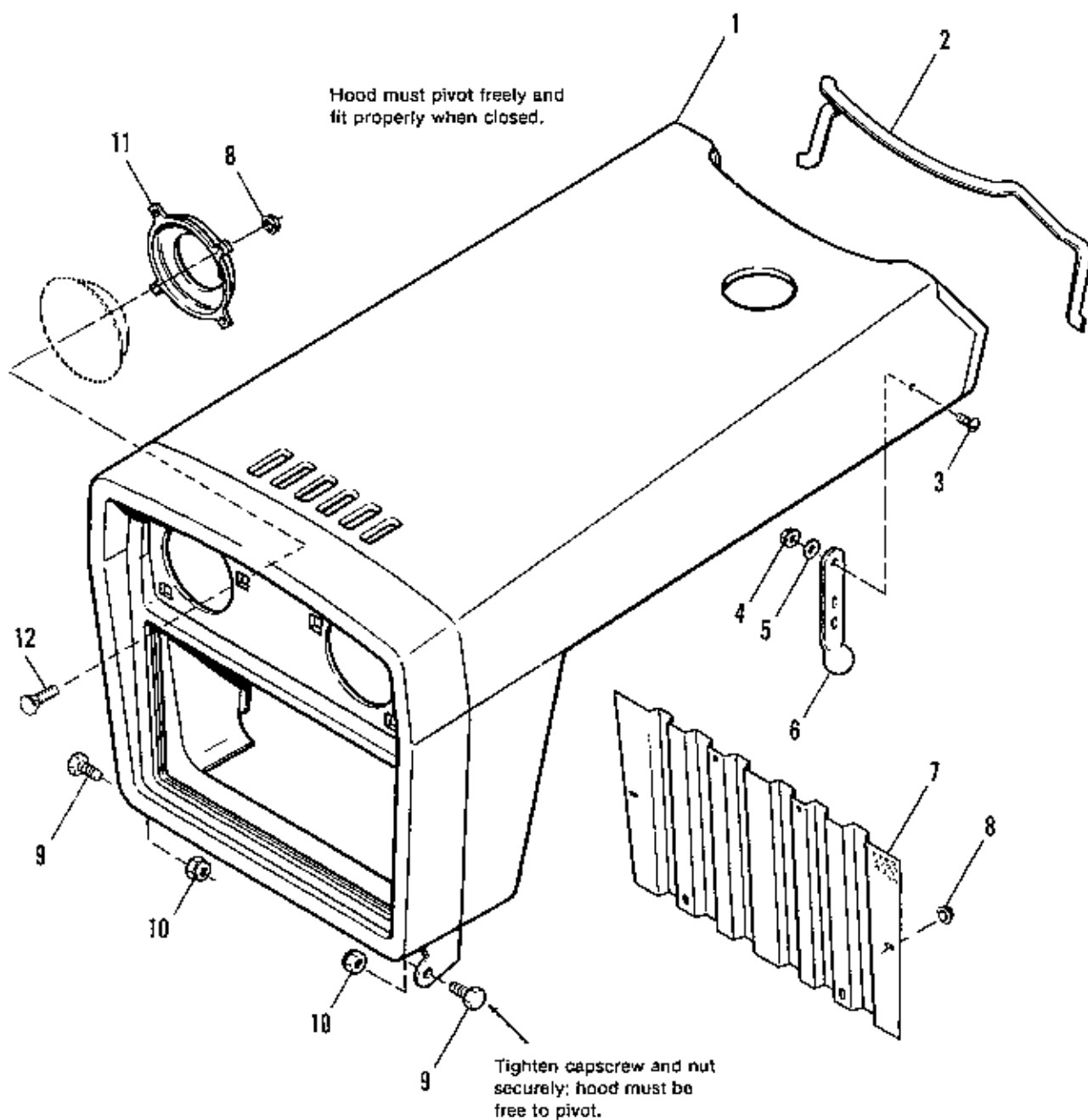
**NOTE:** Use standard hardware torque spec. chart unless otherwise noted.



Ref. No.	Part No.	Qty.	Description
1	1685058	1	BATTERY (Includes decal)
2	1669827	1	INSULATING CABLE BOOT
3	1665235	1	CABLE (Battery to Solenoid)
4	917356	2	LOCKWASHER, 5/16
5	1920263	2	NUT, Hex, 5/24
6	1916622	4	NUT, Hex, Full, 1/4-20
7	1916964	1	LOCKWASHER, 1/4
8	1603189	1	AMMETER
9	1607280	1	SWITH & KEY ASSY., Ignition (Incl. Ref. Nos. 10-13)
10	122203	1	KEY SET (2)
11	122235	1	NUT, Special
12	918906	1	LOCKWASHER, Int., 5/8
13		1	SWITCH, Ignition (See Ref. No. 9)
14	122184	1	SWITCH, Toggle
15	171225	1	CLAMP
16	171811	1	CABLE (Battery to Ground)
17	1703555	1	HARNESS ASSY.
18	176912	1	CLIP, Wire
19	177522	1	SWITCH, Interlock
20	1930647	1	NUT, Pal
21	924356	1	WASHER, Plain
22	932771	1	CLIP, Cable
23	172175	1	GROMMET
24	172434	4	CLIP, Tinnerman
25	172436	2	CLIP, Tinnerman
26	1674358	1	WIRE ASSY.
27	122023	1	COVER, Terminal
28	1665853	2	LAMP, Sealed Beam, G.E. #4411-1
29	1701343	1	RELAY, Electric
30	1666328	1	CABLE (Solenoid to Starter)
31	921880	2	LOCKWASHER, Ext. Tooth, 1/4 (Zinc Pltd.)
32	1665237	1	WIRE ASSY.
33	1665238	1	BREAKER, Circuit
34	1921959	3	CAPSCREW, Hex Hd., 1/4-20 x 5/8
35	1923358	2	LOCKNUT, Hex, 1/4-20
36	1665230	1	BOARD, Terminal
37	1685290	1	SOLENOID, Starter
38	1924433	2	LOCKNUT, Hex, Esna, 5/16-18
39	1650878	1	PLATE
40	1650880	1	NUT, Switch
41	921319	2	WASHER, Special, 1/4 (Zinc Pltd.)
42	934683	3	CLIP, Wire
43	165073	1	CLIP, Speed Cable
44	921958	1	CAPSCREW, Hex Hd., 1/4-20 x 1/2 (Zinc Pltd.)
45	1917415	2	NUT, Hex, #10-32
46	1922711	2	LOCKWASHER, Ext. Tooth
47	916964	2	LOCKWASHER, 1/4 (Zinc Pltd.)
48	916622	2	NUT, Hex, 1/4-20 (Zinc Pltd.)
49	932747	3	TIE

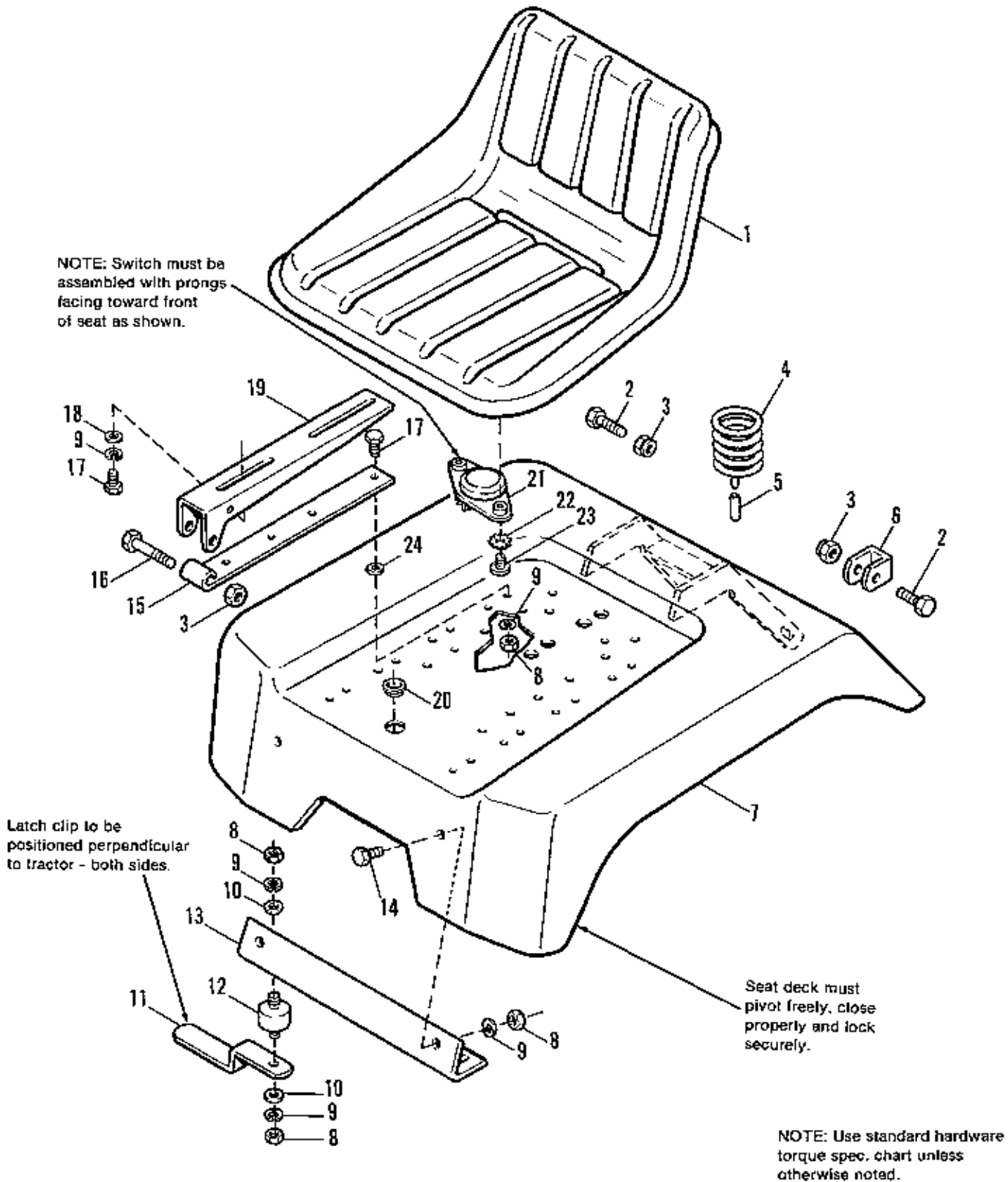


Ref. No.	Part No.	Qty.	Description
1	1926025	6	SCREW, Machine, Rd. Hd., 1/4-20 x 12
2	172008	1	PLATE, Adjusting, Steering
3	157077	1	BUSHING
4	1651000	1	PANEL, Instrument
5	917867	6	NUT, Tinnerman
6	172038	1	KNOB
7	1651170	1	HANDLE, Clutch Control
8	101025	1	WASHER
9	156116	1	WASHER
10	1930531	1	SCREW, Round Hd., #10-32 x 1/2
11	1685408	1	DASH ASSY.
12	1930561	8	SCREW, Hex, Self Tapping, #14AB x 3/4
13	928703	6	NUT, Speed
14	158475	1	CLIP, Bowden Wire
15	1930651	1	LOCKNUT, Hex, 3/8-16
16	1928919	1	NUT, Hex Washer, #10-32
17	1666703	1	ARM, Throttle
18	171848	1	STOP, Throttle
19	159107	1	WASHER
20	1930665	1	LOCKWASHER, Dished Type, 3/8
21	177447	1	PLUG, Button



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

Ref. No.	Part No.	Qty.	Description
1	1669399	1	HOOD & GRILLE ASSY.
2	1666163	1	MOULDING, Hood
3	1930531	2	SCREW, Truss Hd., #10-32 x 1/2
4	1930627	2	LOCKNUT, Hex, #10-32
5	171804	2	WASHER, Special
6	171600	2	STRAP, Hood
7	1666148	1	SCREEN
8	1665253	14	LOCKNUT, Pal
9	1921210	2	CAPSCREW, Hex Hd., 3/8-16 x 1
10	1930651	2	LOCKNUT, Hex, 3/8-16
11	1665813	2	BRACKET, Headlight
12	1936363	4	BOLT, Carriage, #10-29 x 12



## Seat &amp; Deck Group

Ref. No.	Part No.	Qty.	Description
1	1679332	1	SEAT ASSY.
2	1920415	2	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
3	1930651	4	LOCKNUT, Hex, 3/8-16
4	1666690	2	SPRING, Seat
5	1666691	2	COVER, Wire
6	1607870	1	STOP, Seat Deck
7	1679334	1	DECK ASSY., Seat
8	1917372	12	NUT, Hex, Full, 5/16-18
9	1917356	16	LOCKWASHER, 5/16
10	1917377	4	WASHER, Plain, 1/4
11	1606823	2	CLIP
12	1666744	2	CONNECTOR, Cushion
13	164029	1	BRACKET, Seat Deck, Front
14	1925205	2	CAPSCREW, Hex Hd., 5/16-18 x 5/8
15	1666737	2	HINGE, Lower
16	1923701	2	CAPSCREW, Hex Hd., 3/8-16 x 2
17	1921332	10	CAPSCREW, Hex Hd., 5/16-18 x 3/4
18	1917642	4	WASHER, Plain, 5/16
19	1701559	2	HINGE, Upper
20	1701229	1	BUSHING, Snap
21	1703373	1	SEAT SWITCH, Safety (17 HP Models)
	1700636	1	SEAT SWITCH, Safety (16 HP Models)
22	1921880	2	LOCKWASHER, 1/4
23	1960357	2	SCREW, Phillips Hd., 1/4-20 x 3/4
24	1919381	6	WASHER, 11/32 x 1 (1691717 only)

#2263

Locate seat plate (Ref. No. 22) between upper hinge (19) and seat (1) at rear screw locations.

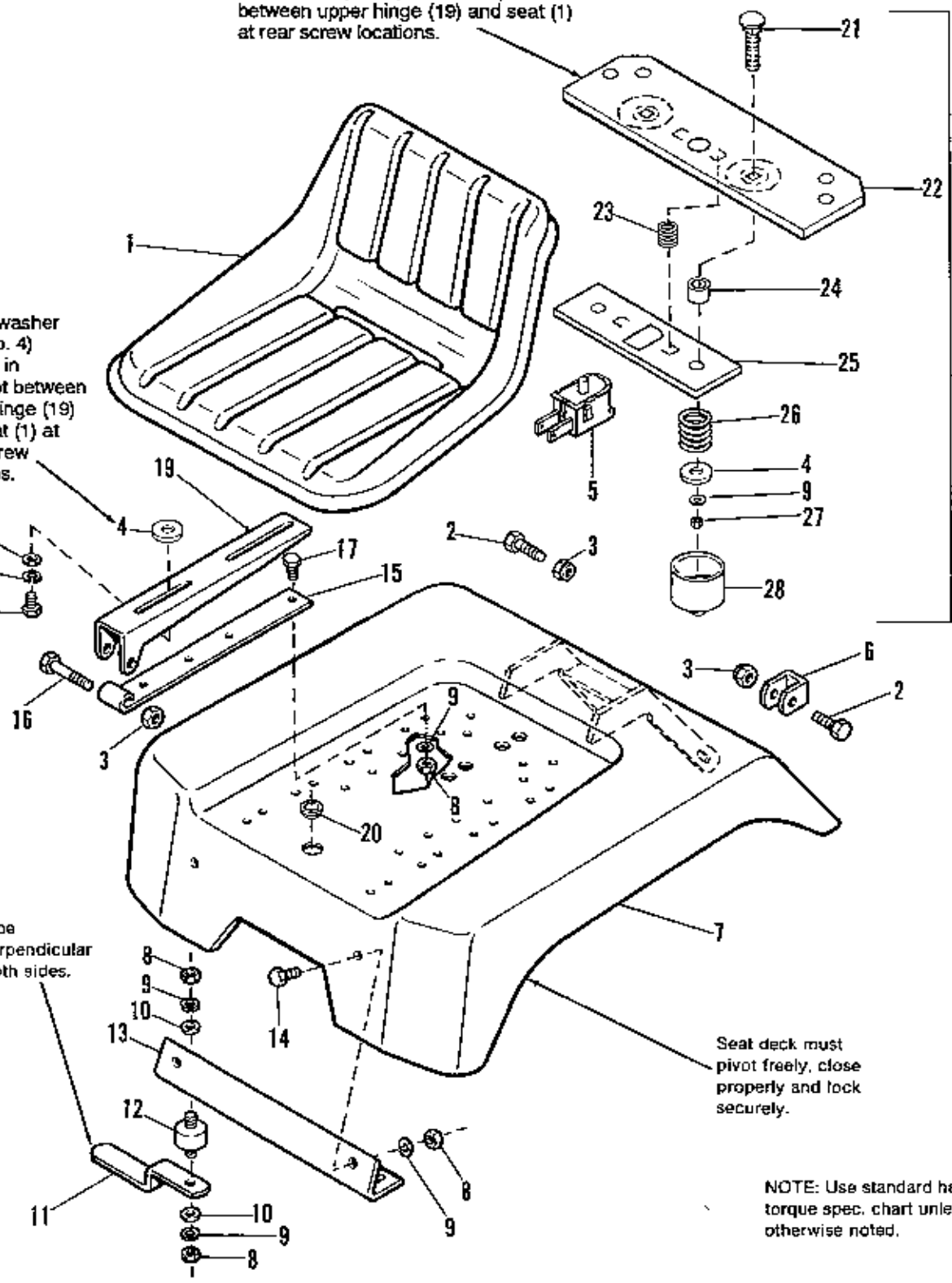
Locate washer (Ref. No. 4) midway in front slot between upper hinge (19) and seat (1) at front screw locations.

Latch clip to be positioned perpendicular to tractor - both sides.

Seat deck must pivot freely, close properly and lock securely.

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

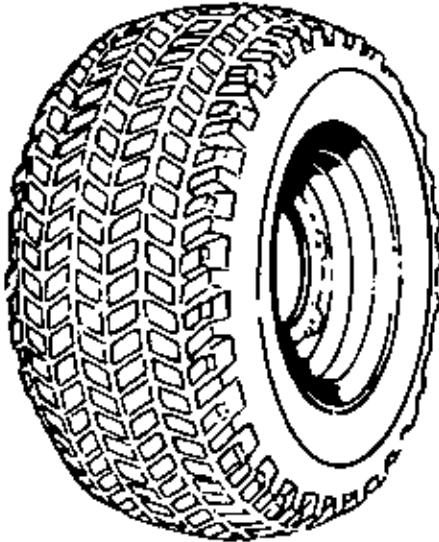
KIT  
1685449



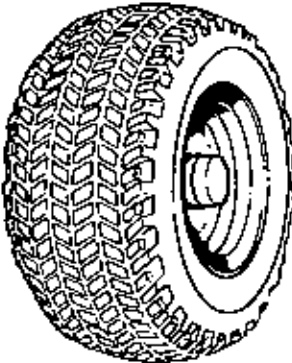


Ref. No.	Part No.	Qty.	Description
1	1679332	1	SEAT ASSY.
2	1920415	2	CAPSCREW, Hex Hd., 3/8-16 x 1-1/4
3	1930651	4	LOCKNUT, Hex, 3/8-16
4	1933468	4	WASHER
5	1704379	1	SWITCH, Seat
6	1607870	1	STOP, Seat Deck
7	1679334	1	DECK ASSY., Seat
8	1917372	14	NUT, Hex, Full, 5/16-18
9	1917356	18	LOCKWASHER, 5/16
10	1917377	4	WASHER, Plain, 1/4
11	1606823	2	CLIP
12	1666744	2	CONNECTOR, Cushion
13	164029	1	BRACKET, Seat Deck, Front
14	1925205	2	CAPSCREW, Hex Hd., 5/16-18 x 5/8
15	1666737	2	HINGE, Lower
16	1923701	2	CAPSCREW, Hex Hd., 3/8-16 x 2
17	1921332	10	CAPSCREW, Hex Hd., 5/16-18 x 3/4
18	1917642	4	WASHER, Plain, 5/16
19	1701559	2	HINGE, Upper
20	1701229	1	BUSHING, Snap
21	1931338	2	CARRIAGE BOLT, 5/16-18 x 1-1/4
22	1707511	1	PLATE, Seat
23	1704402	2	SPRING
24	1707571	2	SPACER
25	1707459	1	PLATE, Switch
26	1704728	2	SPRING
27	1919438	2	NUT, Lock, 5/16-18
28	1704724	2	COVER, Spring

**NOTE:** Ref. Nos. 4, 9 (Qty. 4), and 21-28  
are included in Seat Switch Kit 1685449



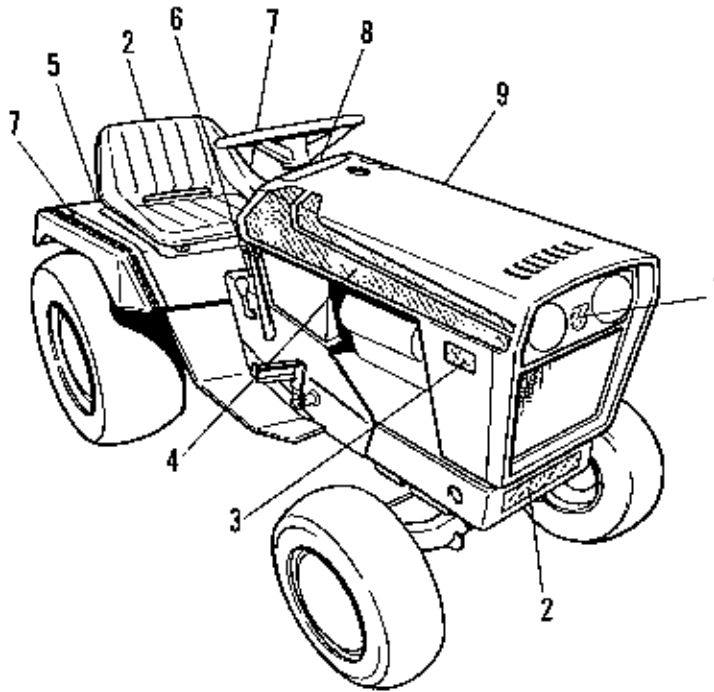
Rear Turf Tire



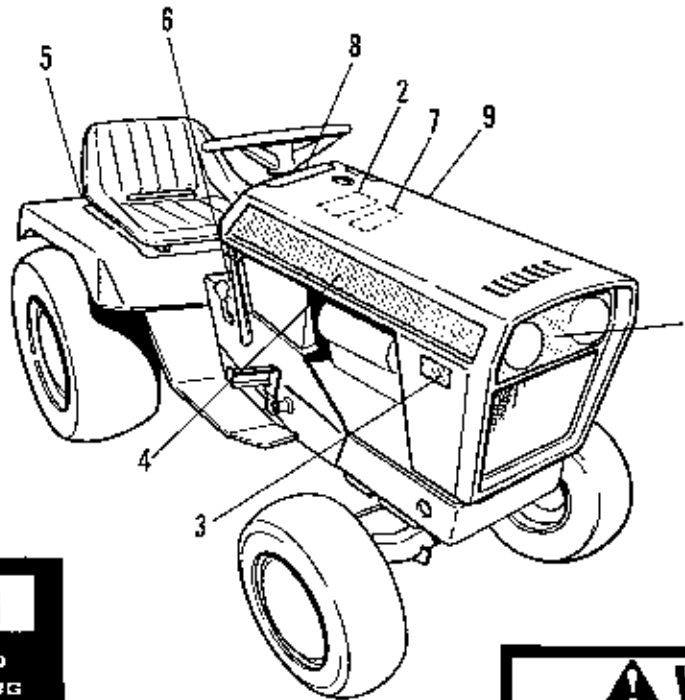
Front Tire

<i>Rear Tires</i>	<b>Part No.</b>	<b>Qty.</b>	<b>Description</b>
	173432	2	WHEEL & TIRE ASSY., Rear, 23 x 10-1/2-12, Turf
	1605967	2	TIRE, Tubeless, Carlisle, 23 x 10-1/2-12, Turf Saver
	157638	2	TUBE
	172353	2	VALVE STEM & CAP
	173430	2	WHEEL, Drive
	8281100	10	BOLT, Hub

<i>Front Tires</i>	<b>Part No.</b>	<b>Qty.</b>	<b>Description</b>
	171376	2	WHEEL & TIRE ASSY., Front 16 x 6-1/2-8, Turf
	172353	2	VALVE STEM & CAP
	164247	2	TUBE
	171377	2	WHEEL SUBASSY. (Includes Bearing)
	154393	4	CUP ,(Bearing)
	1605965	2	TIRE, 16 x 6-1/2-8, Carlisle Turf Saver



Decal Group



**⚠ WARNING**  
DISCONNECT GROUND (-) TERMINAL WHEN WORKING ON ELECTRICAL SYSTEM TO PREVENT SHORT CIRCUIT

1676933

SAFETY DECALS

**⚠ WARNING**  
TO AVOID INJURY DO NOT RUN ENGINE WITH SEAT DECK RAISED

1676934

## Decal Group

Ref. No.	Part No.	Qty.	Description
1	1669356	1	DECAL, Simplicity Grille
2	153166	2	DECAL, Simplicity
3	1666869	2	DECAL, Model 7116 Hydro
	1666870	2	DECAL, Model 7117 Hydro
4	1669441	1	DECAL, Hood Stripe, RH
5	1669356	1	DECAL, Cast Iron Trans.
6	1676931	1	DECAL, Console, Hydro
7	1657283	1	DECAL, Seat Deck
8	1666873	1	DECAL, Dash, Hydro
9	1669442	1	DECAL, Hood Stripe, LH

## Not Indexed

		1	DECAL, Battery (not serviced)
	175216	1	FILM, Lift Lever, (on handle)
	1667175	1	DECAL, Adjustment, Mower Belt
	1703661	1	DECAL, Drive Belts & Mower Blades
	1676934	1	DECAL, Caution
	1676933	1	DECAL, Warning, (under seat deck)

## Mfg. No. 1691957

## Decal Group




Ref. No.	Part No.	Qty.	Description
1	1706307	1	DECAL, Grille
2	1703661	1	DECAL, Drive Belts & Mower Blades
3	1706366	1	DECAL, Model 17GTH-L
4	1706306	1	DECAL, Hood Stripe, RH
5	1668202	1	DECAL, Simplicity
6	1676931	1	DECAL, Console, Hydro
7	1704482	1	DECAL, Touch-Up Paint
8	1668328	1	DECAL, Dash, Hydro
9	1706305	1	DECAL, Hood Stripe, LH

## Not Indexed

		1	DECAL, Battery (not serviced)
	175216	1	FILM, Lift Lever, (on handle)
	1667175	1	DECAL, Adjustment, Mower Belt
	1676675	1	DECAL, Caution
	1676933	1	DECAL, Warning, (under seat deck)



**TORQUE SPECIFICATIONS FOR  
STANDARD MACHINE HARDWARE  
TOLERANCE  $\pm 20\%$**




SIZE	SAE GRADE #2		SAE GRADE #5		SAE GRADE #8	
						
8-32	19	In. Lbs.	30	In. Lbs.	41	In. Lbs.
8-36	20	"	31	"	43	"
10-24	27	"	43	"	60	"
10-32	31	"	49	"	68	"
1/4-20	66	"	8	Ft. Lbs	12	Ft. Lbs.
1/4-28	76	"	10	"	14	"
5/16-18	11	Ft. Lbs	17	"	25	"
5/16-24	12	"	19	"	25	"
3/8-16	20	"	30	"	45	"
3/8-24	23	"	35	"	50	"
7/16-14	30	"	50	"	70	"
7/16-20	35	"	55	"	80	"
1/2-13	50	"	75	"	110	"
1/2-20	55	"	90	"	120	"
9/16-12	65	"	110	"	150	"
9/16-18	75	"	120	"	170	"
5/8-11	90	"	150	"	220	"
5/8-18	100	"	180	"	240	"
3/4-10	160	"	260	"	386	"
3/4-16	180	"	300	"	420	"
7/8-9	140	"	400	"	600	"
7/8-14	155	"	440	"	660	"
1-8	220	"	580	"	900	"
1-12	240	"	640	"	1,000	"

**NOTE:**

1. These torque values are to be used for all *Simplicity* 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.

**BOLT HEAD MARKING**

S.A.E. GRADE:

- 2 
- 5 
- 8 



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