

Operating/Service Instructions

GARDEN TRACTOR

WITH 32" ROTARY MOWER

IMPORTANT

Model Nos.

142-669 (Electric Starter)

192-651 (32" Mowing Unit)

SAFE OPERATION PRACTICES - RIDING MOWERS

1. Know the controls and how to stop quickly—**READ THE OWNER'S MANUAL.**
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. **Keep children and pets a safe distance away.**
4. Clear work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start engine (motor).
6. Disengage power to attachments and stop engine (motor) before leaving operator position.
7. Disengage power to attachment(s) and stop engine (motor) before making any repairs or adjustments.
8. Disengage power to attachments when transporting or not in use.
9. Take all possible precautions when leaving vehicle unattended; such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
10. Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of steep slopes; never across the face.
11. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in terrain and other hidden hazards.
13. Use care when pulling loads or using heavy equipment.
 - A. Use only approved drawbar hitch points.
 - B. Limit loads to those you can safely control.
 - C. Do not turn sharply. Use care when backing.
 - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
16. Handle gasoline with care—it is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
 - C. Open doors if engine is run in garage — exhaust fumes are dangerous. Do not run engine (motor) indoors.
17. Keep vehicle and attachments in good operating condition and keep safety devices in place. Use guards as instructed in owner's manual.
18. Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.
19. Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.
20. Allow engine to cool before storing in any enclosure.
21. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
22. Vehicle and attachments should be stopped and inspected for damage after striking a foreign object and the damage should be repaired before restarting and operating the equipment.
23. Do not change engine governor settings or over-speed engine.
24. When using vehicle with mower:
 - (1) Mow only in daylight or in good artificial light.
 - (2) Never make a cutting height adjustment while engine (motor) is running if operator must dismount to do so.
 - (3) Shut engine (motor) off when removing grass catcher and/or unclogging chute.
 - (4) Check blade mounting bolts for proper tightness at frequent intervals.
25. Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.

WARNING

The mower shall not be operated without the entire grass catcher or chute deflector in place.

NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

Use factory replacement bag Number 764-122.

ASSEMBLY

The steering wheel, seat and deck wheels, with the necessary hardware, are easily assembled to the machine. The battery must be activated and installed as outlined in this section and the cutting deck must be attached.

TOOLS NEEDED

- Hammer
- 3/4" open end wrench or adjustable wrench
- 7/16" open end wrench
- Pliers

HARDWARE SUPPLIED

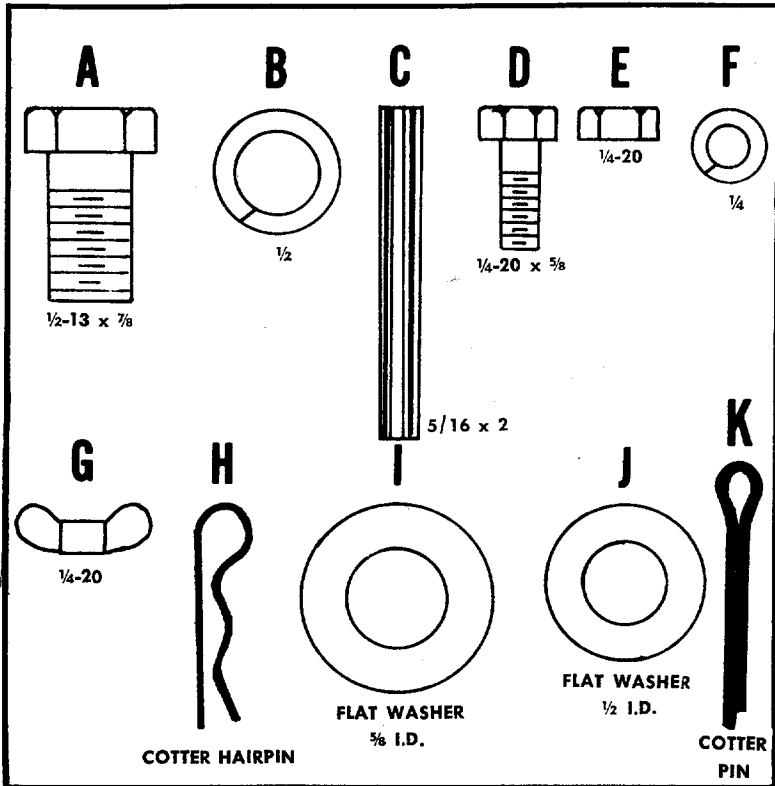


FIGURE 5. FRONT LINK ASSEMBLY

Step 1. Assemble the seat to the seat spring with the 1/2 x 7/8" hex head bolt (A) and 1/2" lockwasher (B).

NOTE

The seat is adjustable by using one of the four different mounting holes. See figure 1.

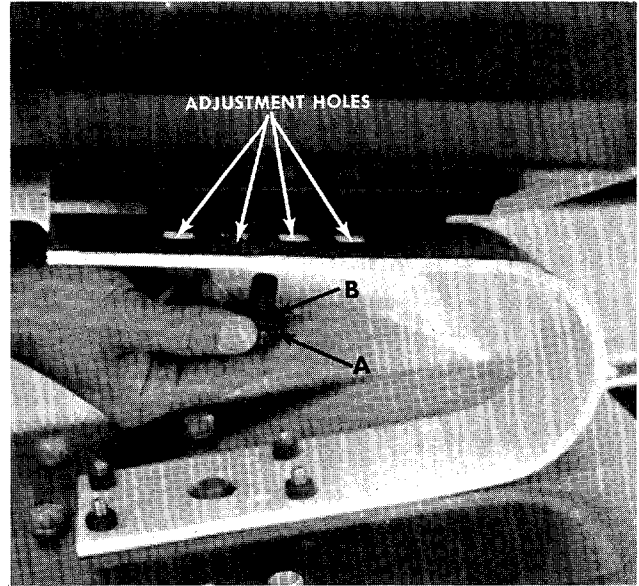


FIGURE 1. SEAT ASSEMBLY

Step 2. Assemble the steering wheel to the steering column, line up the hole and drive the roll pin (C) with a hammer. See figure 2.

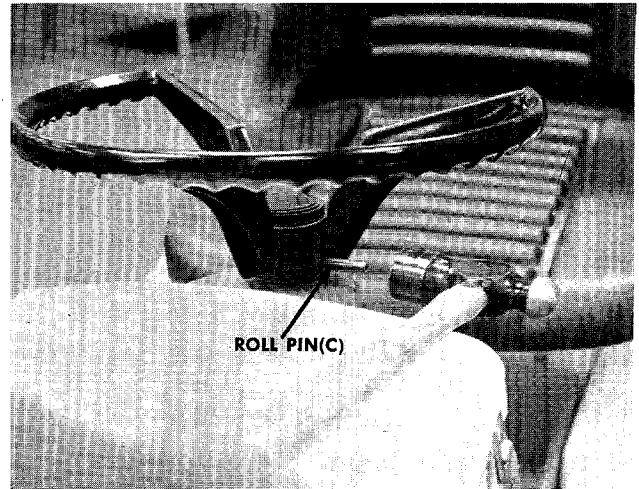


FIGURE 2. STEERING WHEEL ASSEMBLY

Step 3. Activate the battery.

CAUTION

Always add electrolyte to battery before battery is installed in vehicle.

1. Remove vent plugs.
2. **When using 6 quart or 2 quart container**—place package upright; pull tab back to edge of carton, pull out hose; snip off end of hose. Fill each cell until electrolyte level rises to split ring at bottom of vent well.

DO NOT OVER FILL

3. After filling cells, wait five to ten minutes and add additional electrolyte if necessary to bring electrolyte to proper level.
4. Replace vent caps.
5. **Charge battery** for 10 to 15 minutes at 25-30 amps. or for 30 minutes at 4-6 amps.

WARNING

Electrolyte is a mixture of sulphuric acid and water. Avoid contact with skin, eyes, and clothing. If electrolyte is spilled flush area with clear water and neutralize with solution of water and baking soda or water and ammonia.

Step 4. Installing the battery in the mower.

- a. Open the hood of the mower.
- b. Place the battery, with the terminals to the rear in the battery case. See figure 3.

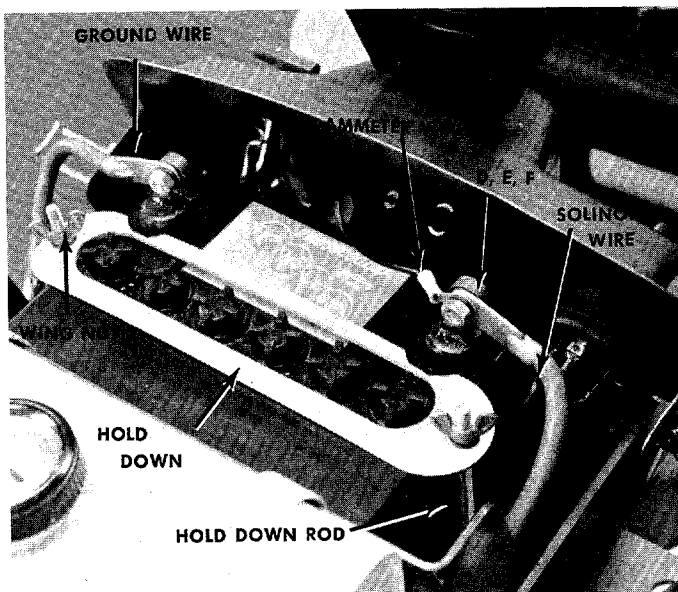


FIGURE 3. INSTALLING THE BATTERY

- c. Hook both hold down rods under the battery case and place the hold down over the battery caps and secure with wing nuts (G).

CAUTION

Be sure the flared edge of the hold down is facing up to avoid damage to the battery.

- d. Attach the free end of the positive cable and the small wire from the ammeter to the positive battery terminal with bolt (D), washer (F) and nut (E).
- e. Attach the free end of the negative cable to the negative terminal of the battery. Use bolt (D), washer (F), and nut (E).

Step 5. Deck Wheel Assembly.

Place the deck wheel over the deck axle and secure it with washer (I) and cotter pin (K). See figure 4.

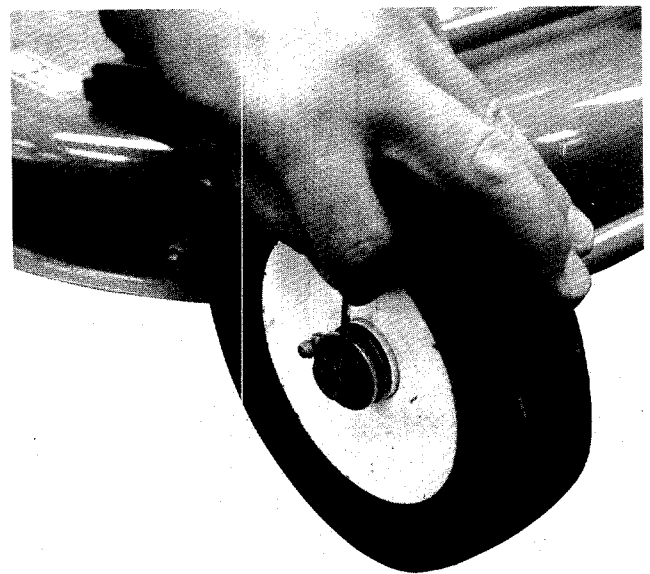


FIGURE 4. DECK WHEEL ASSEMBLY

Step 7. Attach the Cutting Deck.

- a. Move the blade engagement lever forward. See page
- b. Slide the cutting deck under the tractor so it is centered and is back as far as it can go against the rear rider wheels.
- c. From the front of the rider, grasp both front links and hook them in the pins in the frame and secure with cotter pins (H). See figure 5.

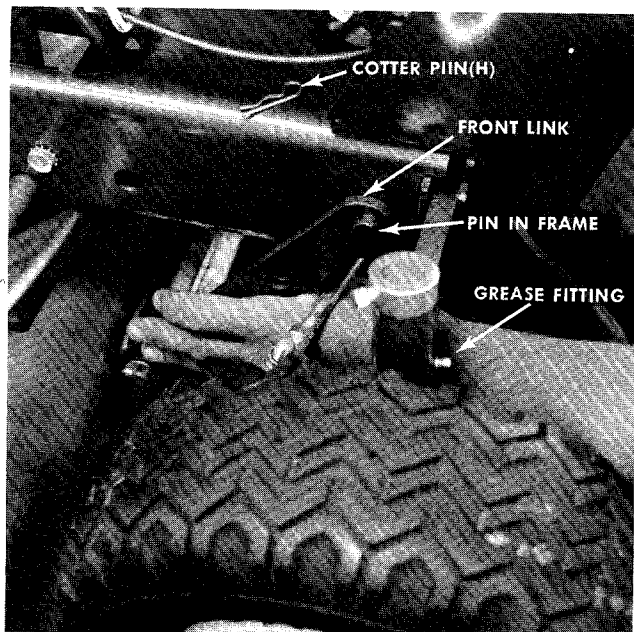


FIGURE 5. FRONT LINK ASSEMBLY

- d. Place the two center links through the hole in the foot rest and attach the short slotted link to the pin in the lift arm and attach the long link to the pin in the frame. See figure 6.

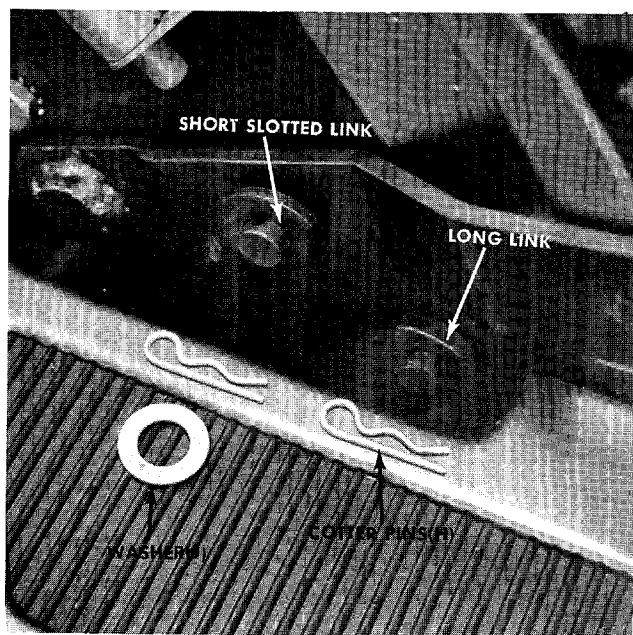


FIGURE 6. CENTER LINK ASSEMBLY

- e. Place washer (J) over the short slotted link and secure both links with cotter pins (H). See figure 6.
- f. Remove the bolt holding the front of the belt guard in place on the engine and swing the belt guard out of the way. See figure 7.

NOTE

The belt trap will be loose but will align itself when the bolt is replaced.

WARNING

Be sure the ignition key is off and the spark plug wire is removed and grounded when the belt is being replaced.

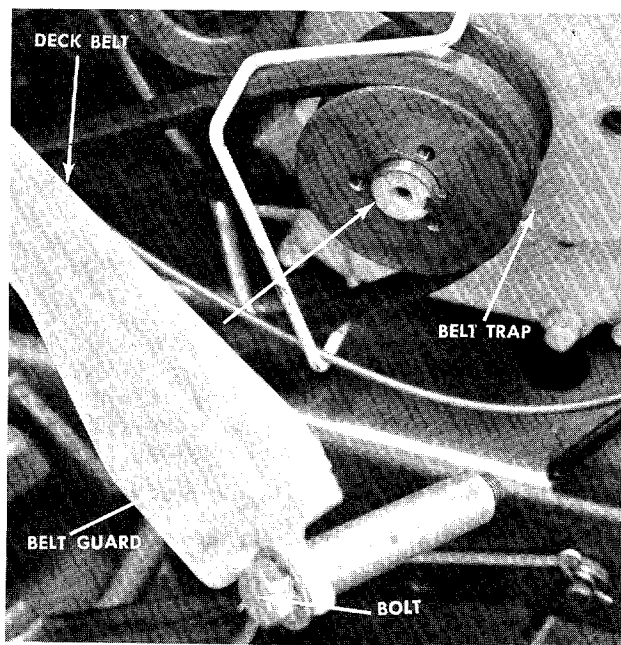


FIGURE 7. ATTACHING THE BELT

- g. Attach the belt to the engine pulley.
- h. Assemble the belt guard back on the rider.

The controls may be considered as the following.

a. **Throttle Control.** The throttle control is used to regulate the engine speed and choke the engine. The engine should be operated from $\frac{3}{4}$ to full throttle when operating the cutting deck or snow thrower.

b. **Gear Shift Lever.**

1st Gear:
 Heavy grass cutting
 Snow Blade
 Snow Thrower
 Pulling heavy loads

2nd Gear:
 Normal grass cutting
 Light snow throwing

3rd Gear:
 Light grass cutting
 Road Gear

Reverse:
 Used to back up

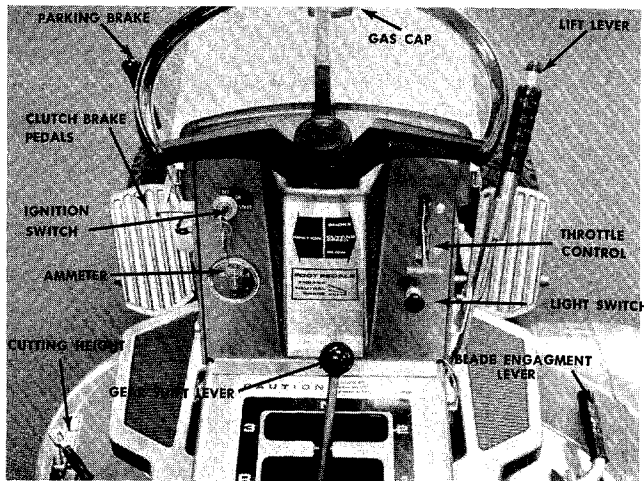


FIGURE 8. CONTROLS

c. Parking Brake. To set the parking brake, pull the lever back and hold it in the locked position by moving the lock to the left. See figure 9.

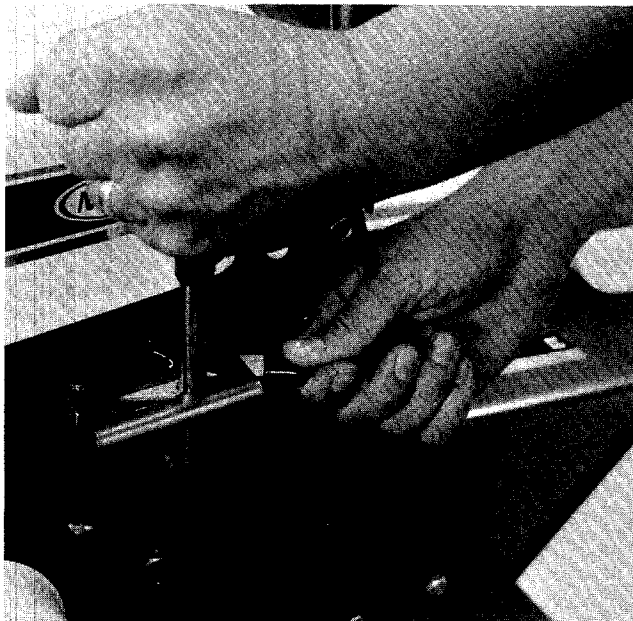


FIGURE 9. PARKING BRAKE

d. Clutch-Brake Pedal. Depress it all the way down to stop or shift gears. Release pedal slowly to engage. The pedal must be depressed in order to start the engine.

CAUTION

Do not shift while in motion.

e. Blade Engagement Lever. Move the blade engagement lever forward to stop the blades from turning on the cutting deck. To engage the blades, slowly move the lever back.

NOTE

The blades must be disengaged before the cutting deck can be raised high enough to trip the interlock so the engine can be started.

f. Lift Lever. To raise the cutting deck or other equipment, depress the thumb button and pull the lever towards you. The lift lever must be all the way up in order to start the engine.

NOTE

The deck will not raise up high enough to start the engine unless the blades are disengaged.

g. Ignition Switch. Turn the switch all the way to the right to engage the starter. As soon as the engine starts, release the ignition key so that the starter is switched off. Turn the key to the left to shut off the engine.

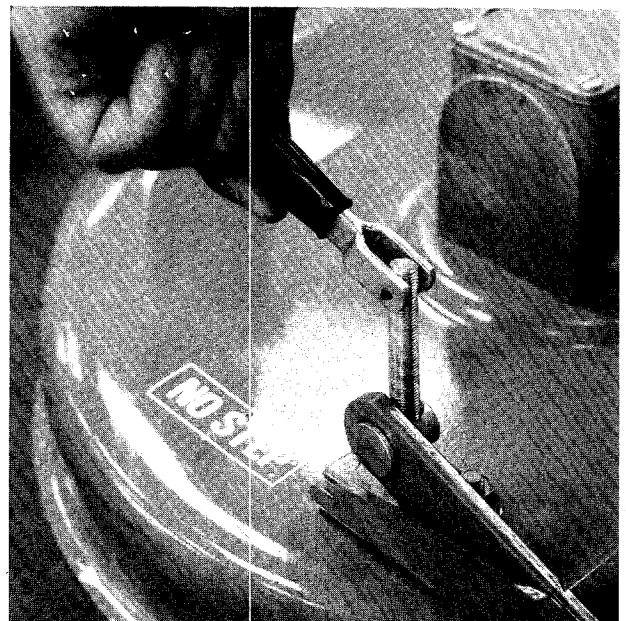
NOTE

The clutch-brake pedal must be depressed and the lift lever must be raised all the way before the starter will operate.

h. Light Switch. Pull the light switch out to turn on the lights.

i. Ammeter. The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus (+) side when the engine is running in the fast position until the battery is completely charged. With a fully charged battery or with the engine idling the ammeter will not show a charge.

j. Cutting Height. Turn the cutting height arm, located on the L.H. side of the cutting deck, clockwise to lower the cutting height. The height of cut can be adjusted from $\frac{5}{8}$ " to $2\frac{5}{8}$ ". See figure 10. To prevent the cutting height arm from unscrewing, lock it as shown in figure 11.



5 FIGURE 10. ADJUSTING CUTTING HEIGHT

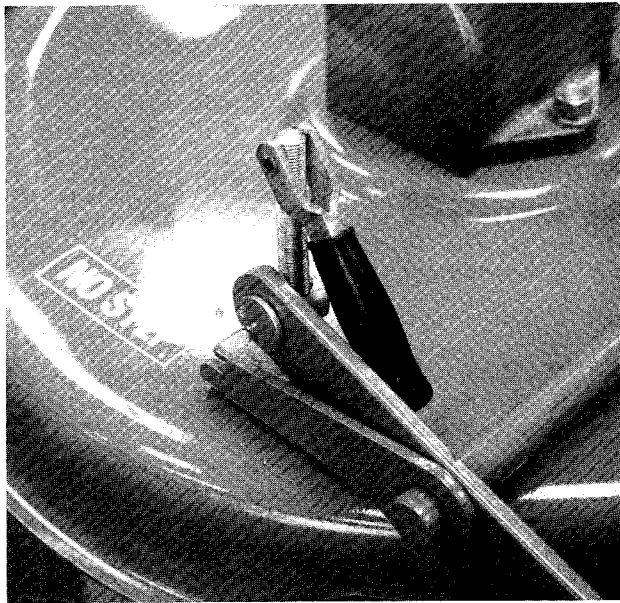


FIGURE 11. ADJUSTMENT LOCKED
CHECKING OIL AND GASOLINE

NOTE

When packaged for shipment, the machine contains no oil or gasoline. Before starting the engine, oil must be added to the engine crankcase and gasoline to the tank. **DO NOT** mix oil with gasoline.

Oil

Remove the oil dip stick (See figure 12) and pour 2¼ pints of good quality type MS engine oil into the crank case.

Summer
Use SAE 30

Winter (Below 40° F)
Use SAE 5W-20 or SAE 10W

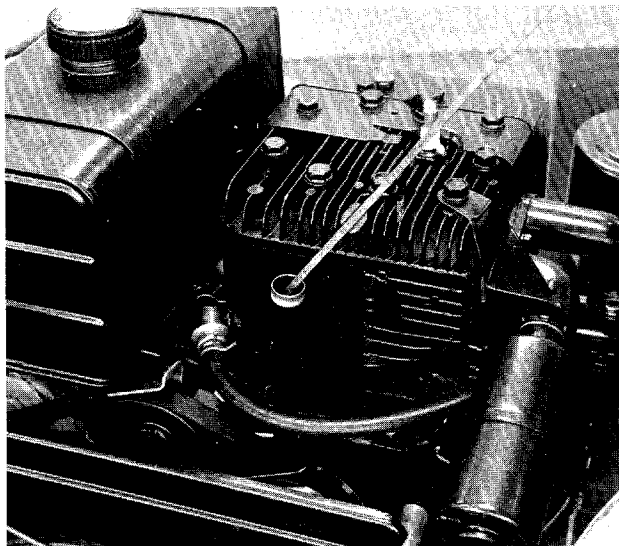


FIGURE 12. OIL DIP STICK

Gasoline

Remove the gas cap and fill the tank with **FRESH REGULAR GASOLINE**. Do not use gasoline that has been stored for any length of time.

STARTING THE ENGINE

Refer to the engine manual for information regarding oil and gasoline requirements, check that spark plug wire is connected, then proceed as follows:

- Step 1. With the machine set on level ground place gear shift lever in neutral (N). See figure 13.
- Step 2. Place the lift lever in the **DISENGAGE** position. See figure 13.

NOTE

The blade engagement lever must be disengaged before the lift lever can be raised.

- Step 3. Suppress the clutch brake pedals.

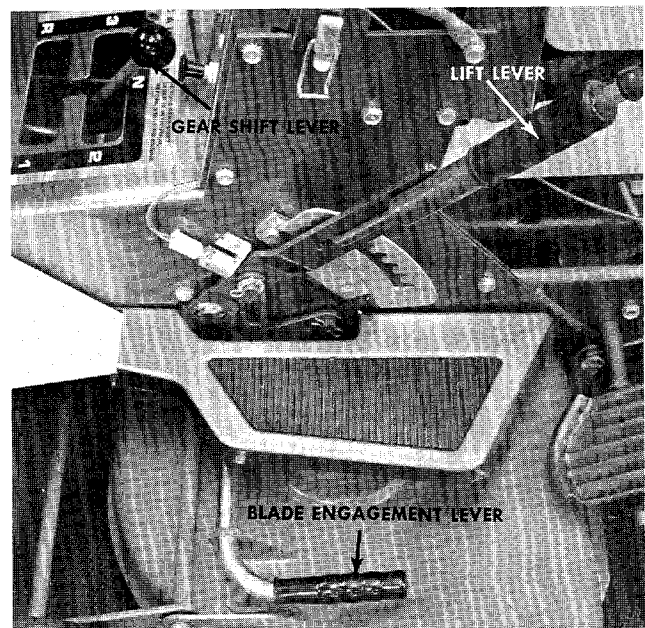


FIGURE 13. CONTROLS

- Step 4. Set the throttle control in the **CHOKE** position.
- Step 5. Turn the ignition key to the right to start the engine. Allow the key to return to the **ON** position. See figure 14.

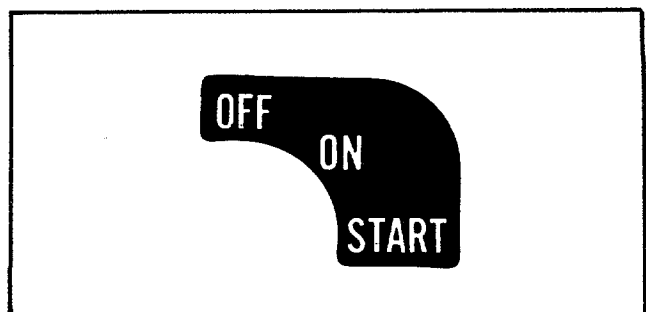


FIGURE 14. IGNITION SWITCH LABEL

NOTE

A brief break-in period is essential to ensure maximum engine and mower life. This consists of running the engine at half speed for a period of time required to use one tank of gasoline. It is also recommended to change crankcase oil after the first 2 hours of operation.

- Step 6. Set the desired cutting height. See figures 10 and 11.
- Step 7. Lower the cutting deck with the lift lever. See figure 13.
- Step 8. Slowly engage the blade engagement lever. See figure 13.

7. STOPPING THE ENGINE

To stop the engine, turn the ignition key to the left to the OFF position. Do not leave the key in the ignition switch.

WARNING

Whenever the mower is left unattended, disconnect the spark plug lead and remove the ignition key.

8. STOPPING THE BLADES

Move the blade engagement lever forward to stop the blades from turning. See figure 13.

9. STOPPING THE RIDER

To stop the rider from moving forward or backward, depress the clutch-brake pedal. See figure 8.

CAUTION

1. Keep all shields and guards in place.
2. Before leaving operator's position:
 - Shift transmission to neutral
 - Set parking brake
 - Disengage attachment clutch
 - Shut off engine
 - Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.

MAINTENANCE

10. CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

a. Oil Check

Check the oil level in the crankcase before each use of the machine and after every two hours of operation. Keep the oil level between ADD and FULL. See figure 12.

b. Oil Change

After the first two hours of operating a new engine, drain the oil (See figure 15.) from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil after every 25 hours of operation. This procedure ensures for minimum wear of engine parts and provides for virtually trouble-free operation. To change the oil, proceed as follows:

- Step 1. Remove oil filler plug.
- Step 2. Drain the oil through the hole in the frame.
- Step 3. Fill crankcase with 2½ pints of good quality oil marked "For Service MS."

WINTER	SUMMER
(Below 40° F.)	(Above 40° F.)
Use SAE 5W-20	Use SAE 30

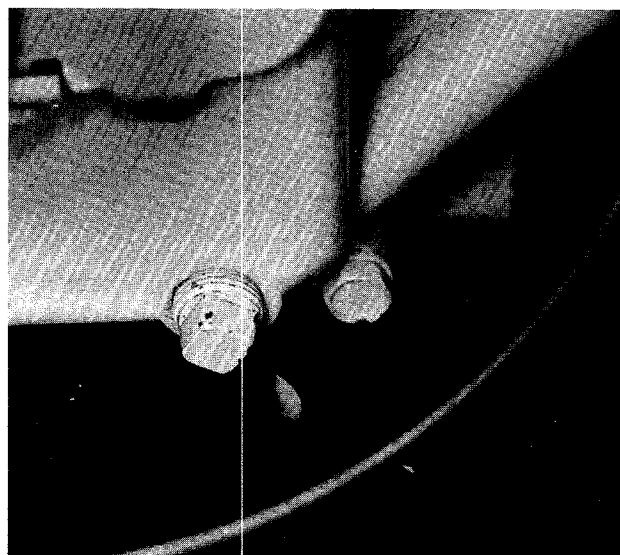


FIGURE 15. OIL DRAIN PLUG

11. TRANSAXLE LUBRICATION

The transaxle is lubricated at the factory with three pints of SAE 90 E.P. oil. When replacing or adding oil, remove the left rear mounting bolt (See figures 16 and 17.) and the overflow plug (figure 16.) and add oil until it overflows. The transaxle oil should be changed once a year.

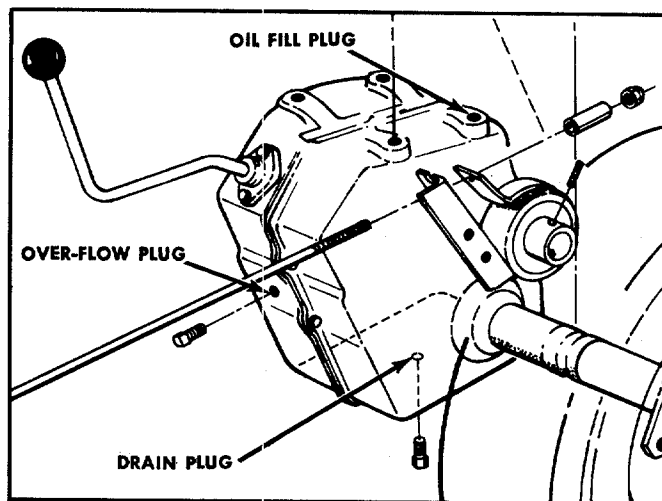


FIGURE 16. TRANSAXLE LUBRICATION

steering adjustment

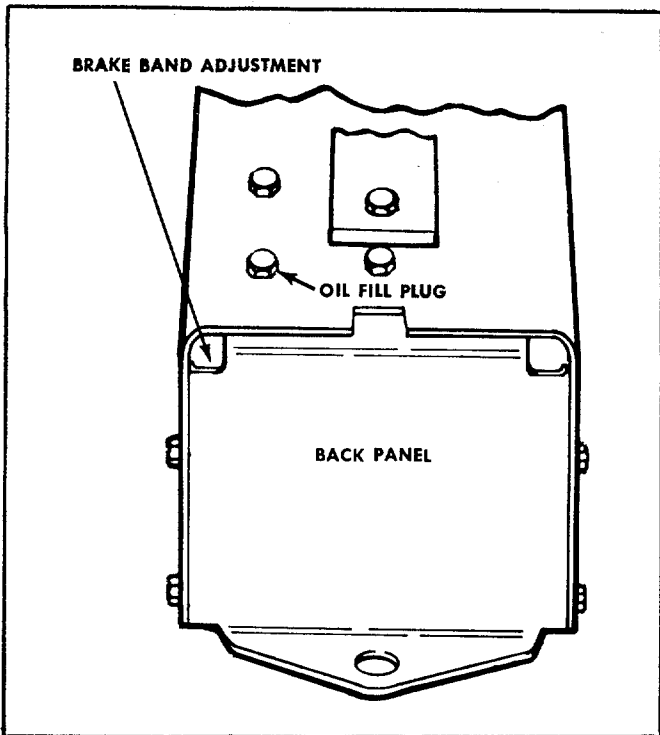


FIGURE 17. BACK PANEL

12. STEERING GEAR LUBRICATION

Lubricate the teeth on the steering segment, pinion gear and slide with automotive multi-purpose grease after every 24 hours of operation. See figure 18.

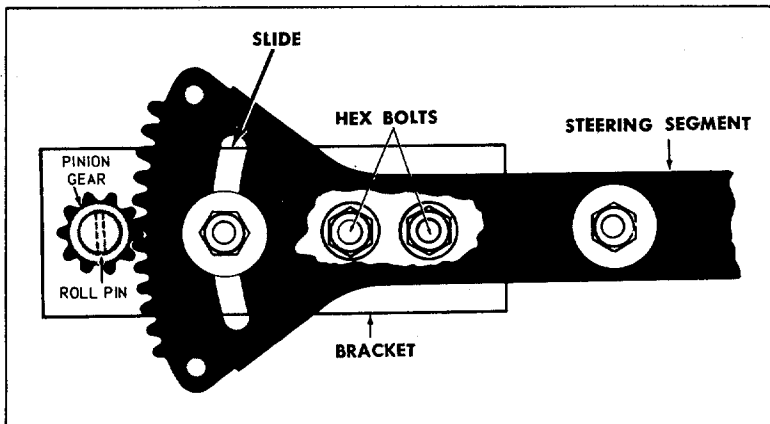


FIGURE 18. STEERING ASSEMBLY

13. WHEEL BEARING LUBRICATION

Front: Lubricate the front wheel bearings with SAE 30 non-detergent oil after every 24 hours of operation.
Rear: Lubricated by transaxle. Requires no further lubrication.

14. KING PIN LUBRICATION

Grease the front king pins with a grease gun using automotive multi-purpose grease after every 24 hours of operation. See figure 5.

15. DECK WHEEL LUBRICATION

The deck wheels require no lubrication.

16. RIGHT ANGLE DRIVE LUBRICATION

Check the lubricant level after every 24 hours of operation. Lubricate with 4 ounces of E.P.G. Lithium grease. The grease level should cover the input shaft. See figure 19.

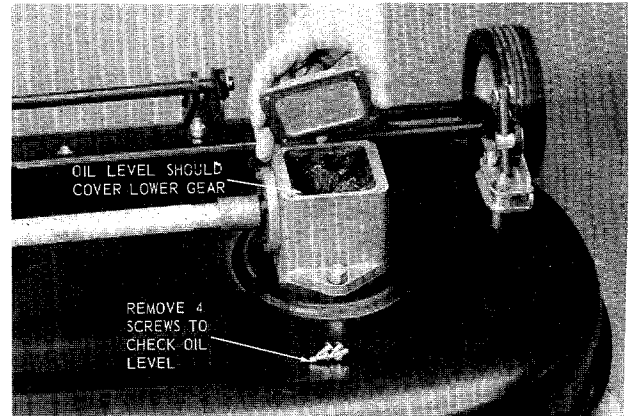


FIGURE 19. GEAR BOX LUBRICATION

17. AIR FILTER

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremely dusty operating conditions, the air cleaner must be serviced after every hour of operation. See figure 20.

Step 1. Remove the wing nut and cover.

Step 2. Remove the paper element from the support base.

Step 3. To clean, tap the paper element (either top or bottom) on a flat surface or wash in a non-sudsing detergent and flush from the inside until the water is clear. After washing, air dry thoroughly before using.

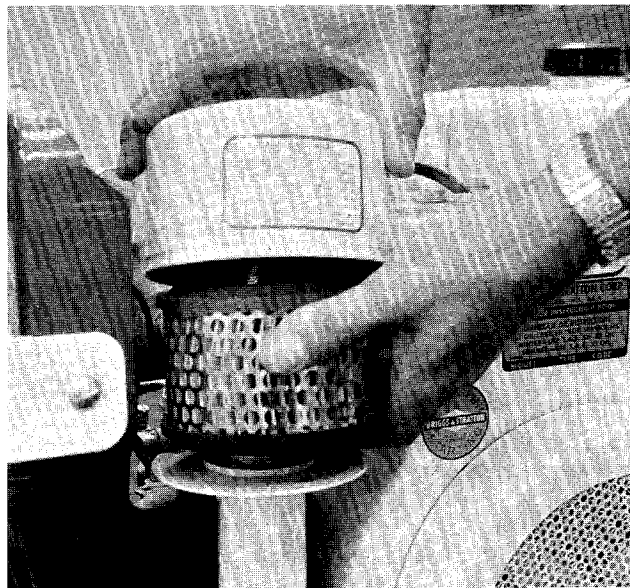


FIGURE 20. AIR FILTER

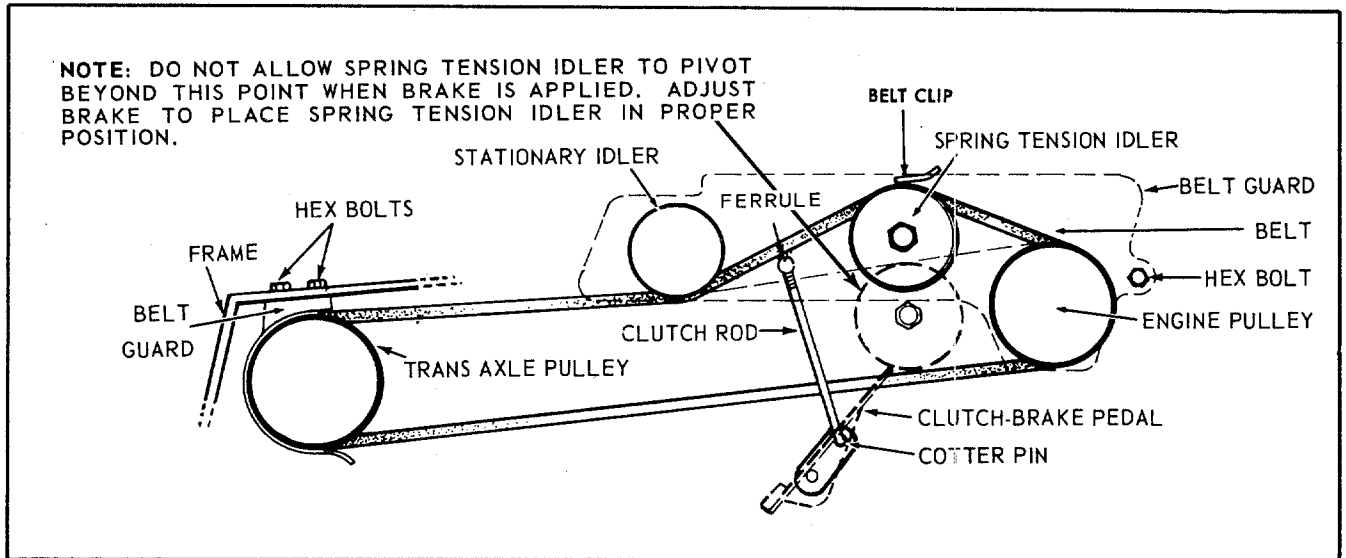


FIGURE 21. CLUTCH-BRAKE PEDAL ADJUSTMENT

18. CLUTCH-BRAKE PEDAL ADJUSTMENT

To adjust the angle of the clutch-brake pedal, remove the cotter pin on the clutch rod and turn the clutch rod in or out of the ferrule to obtain the most comfortable angle of the pedal when the pedal is released. See figure 21.

The brake adjustment is made by using a deep well socket and turning the adjusting nut clockwise through the opening in the back panel. See figure 17.

CAUTION

If the spring tension idler goes below the height of the engine pulley when the clutch-brake pedal is depressed it will cause excessive belt wear and the brake should be adjusted. See figure 21.

19. TRANSMISSION DRIVE BELT REPLACEMENT

Step 1. Remove the hex bolt holding the front of the belt guard and pivot it out of the way. See figure 21.

NOTE

If the cutting deck is attached, remove the cutting deck belt from the engine pulley first.

- Step 2. Mark the outside of the spring tension idler so it is assembled the same way.
- Step 3. Remove the hex bolt and locknut holding the pivot idler in place after noting the position of the belt clip.
- Step 4. Remove the belt from the engine pulley.
- Step 5. Remove the two hex bolts on the top of the rear frame holding the transmission pulley belt guard in place.
- Step 6. Remove the belt and replace it with a new belt.

20. CUTTING DECK BELT REPLACEMENT

- Step 1. Engage the blade engagement lever as shown in figure 22.
- Step 2. Loosen the pivot idler bolt and nut and remove the belt.
- Step 3. Remove the E-ring from the shaft and slide the collar towards the center of the deck.

NOTE

A small felt pad is between the shaft and the L.H. gear box.

- Step 4. Remove the bolts, washers and nuts holding the L.H. gear box and turn it to the side.
- Step 5. Remove and replace the belt.
- Step 6. Reassemble in reverse order.

CAUTION

Check the blade timing in paragraph 21.

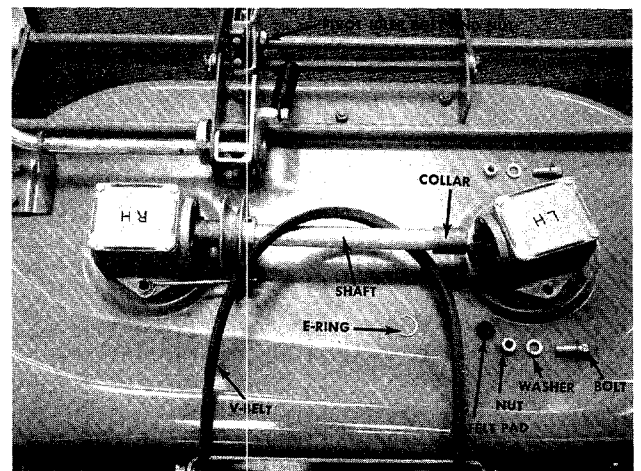


FIGURE 22. DECK BELT REPLACEMENT

21. BLADE TIMING

Timing of the blades consists of setting the blades at 90° to each other so they do not hit when they rotate. To time the blades, follow these steps.

- Step 1. Remove the cutting deck from the rider.
- Step 2. Remove the E-ring from the shaft, See figure 22.
- Step 3. Slide the collar towards the center of the deck.
- Step 4. Tip the deck up and rotate the blades until they match figure 23.
- Step 5. Slide the collar back and install E-ring.

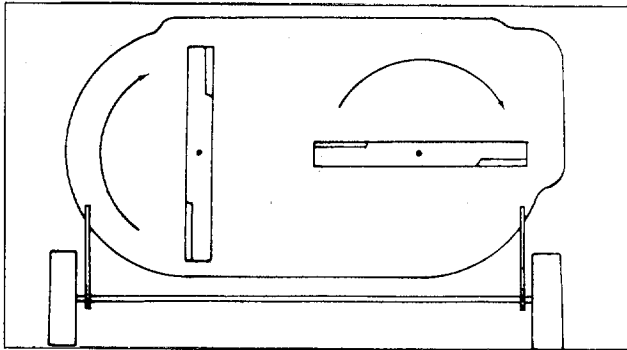


FIGURE 23. BLADE TIMING

22. BLADE REMOVAL

To remove the blades from the cutting deck, remove the deck from the rider, wrap a rag around the blade and remove the center locknut with a wrench. See figure 24.

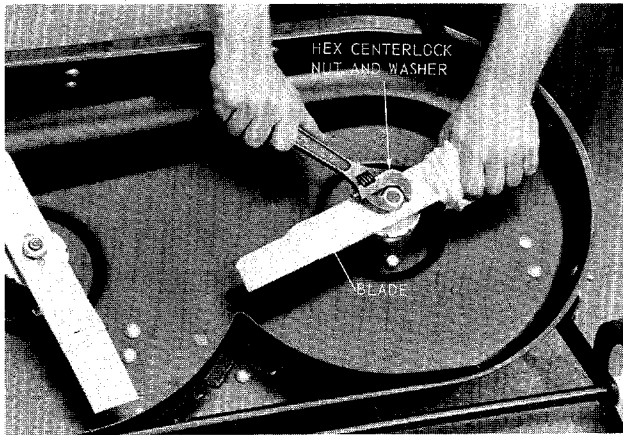


FIGURE 24. BLADE REMOVAL

23. WHEEL ADJUSTMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) requires no adjustment. Automotive steering principals have been used to determine the caster and camber on the tractor. The front wheels should toe-in 1/8 inch. To adjust the toe-in follow these steps.

- Step 1. Loosen the hex jam nut. See figure 25.
- Step 2. Remove the locknut and drop the tie rod end out of the wheel bracket. See figure 25.

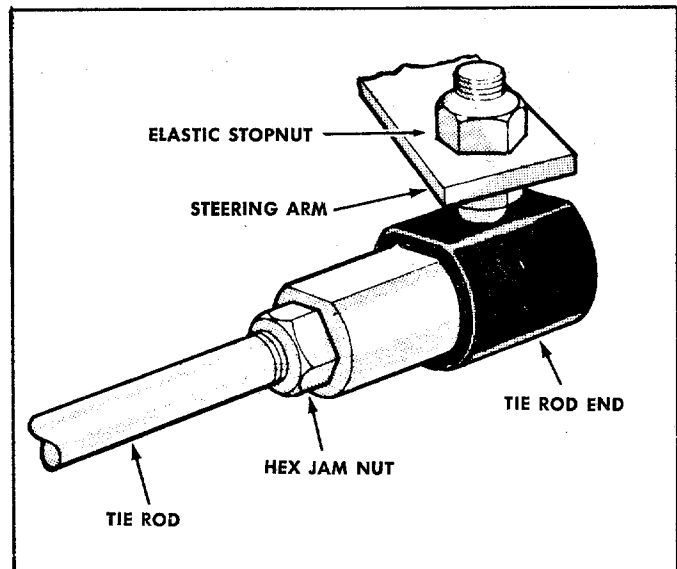


FIGURE 25. TIE ROD ADJUSTMENT

- Step 3. Adjust the tie rod end in or out to obtain the proper toe-in adjustment as shown in figure 26.

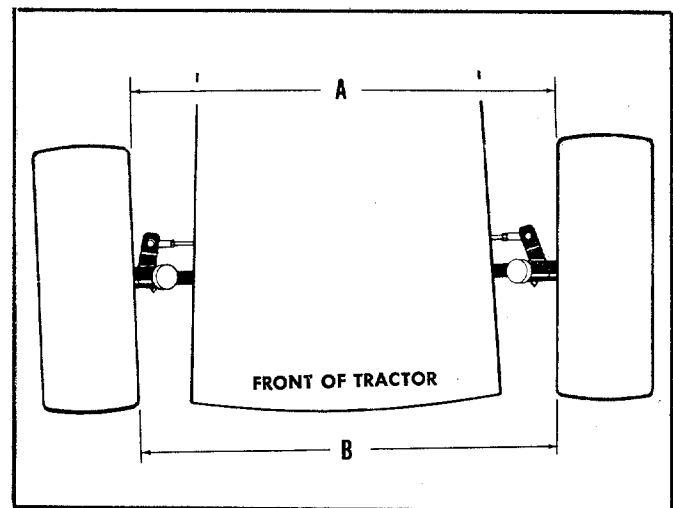


FIGURE 26. TOE-IN DIAGRAM

24. TIRE PRESSURE

Over-inflation may cause slippage of the rear wheels and under-inflation may cause excessive wear. Use 15 psi pressure on both front and rear tires.

24. TERRA TIRE ADJUSTMENT

When your tractor was first set-up the sleeve on the rear axle was on the outside of the wheel. If you use tire chains to operate the snow blade or snow blower, you must remove the snap ring on the rear axle, remove the sleeve and place it on the inside of the wheel in order to get clearance between the chains and the fender. The cutting deck wheels will hit if you try to attach the deck with the wheels extended. See figure 27.

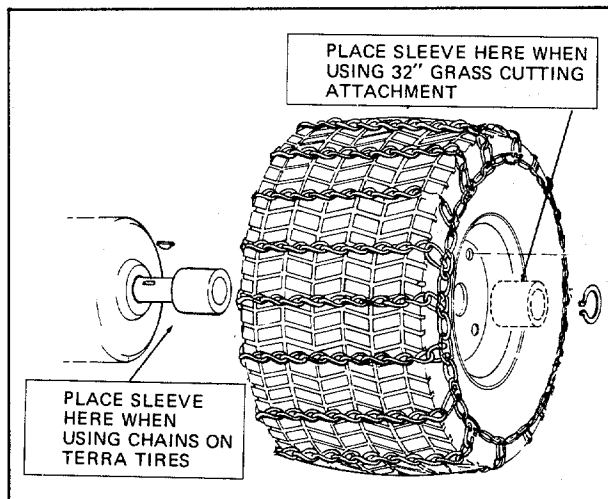


FIGURE 27. TERRA TIRE ADJUSTMENT

25. STEERING ADJUSTMENT

The "play" or looseness of the steering can be adjusted by loosening the two hex bolts on the bracket and lightly tapping the bracket towards the front of the tractor. If the pinion gear becomes worn it can be rotated one half turn by removing the roll pin. See figure 18.

26. FUEL SHUT-OFF VALVE AND FILTER

The fuel shut-off valve is located under the gasoline tank and is opened by turning it counter-clockwise. See figure 28.

The filter should be replaced once a year to insure operating your engine with clean fuel. To replace the filter, sult off the fuel valve and compress the legs of the clamps on both sides of the filter and slide them back. Replace the filter and replace the clamps. See figure 28.

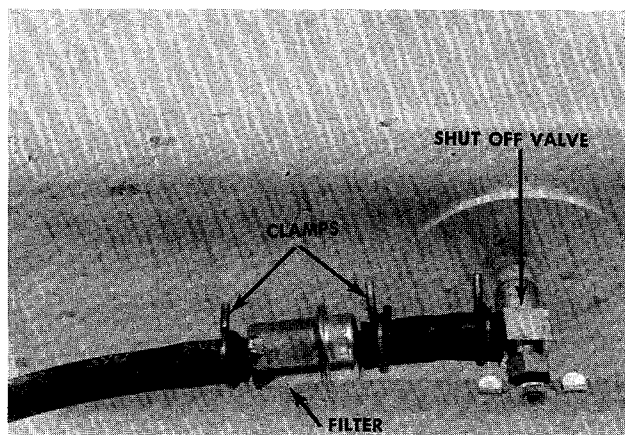


FIGURE 28. FUEL SHUT-OFF VALVE AND FILTER

27. PARKING BRAKE ADJUSTMENT

Step 1. To adjust the parking brake, set the parking brake in the lock position as shown in figure 29.

- Step 2. Using a 7/16" open end or box wrench, tighten the adjusting nut one turn.
- Step 3. Try pushing the tractor by hand. If the tractor is not locked in the park position, repeat steps 2 and 3 until you cannot move the tractor.

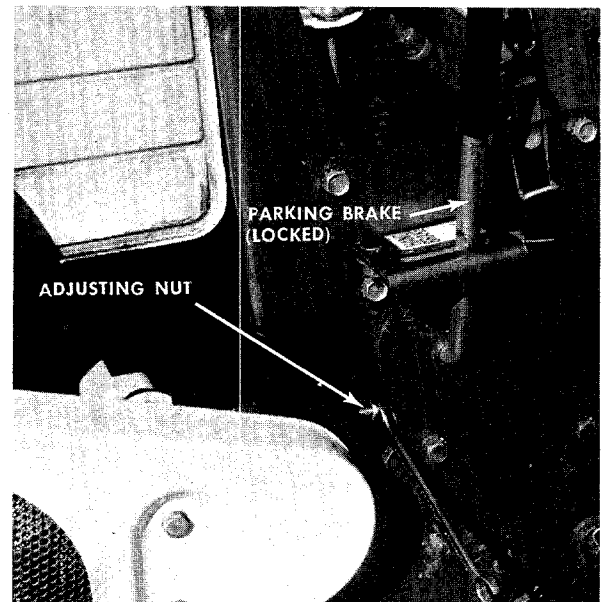


FIGURE 29. PARKING BRAKE ADJUSTMENT

28. OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, the following precautions are recommended:

- Step 1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in carburetor is exhausted.

WARNING

Do not drain fuel while smoking, or if near an open fire.

- Step 2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill the crankcase with clean new oil.
- Step 3. Disconnect the spark plug wire and remove the spark plug from the cylinder. Pour about six drops of engine oil into the cylinder, and then pull the recoil starter several times to spread the oil on the cylinder wall. Replace the spark plug, but DO NOT connect the wire.
- Step 4. Clean the engine and the entire mower thoroughly.
- Step 5. Lubricate all lubrication points indicated in figure 4-2, then wipe the entire machine with an oiled rag in order to protect the surfaces.

BRAKE DRUM 761-152
 LEFT HO CAPSCL 710-538
 LOCK WASHER 736-119
 FLAT WASHER 736-231
 KEY 714-388

722-155 809 809

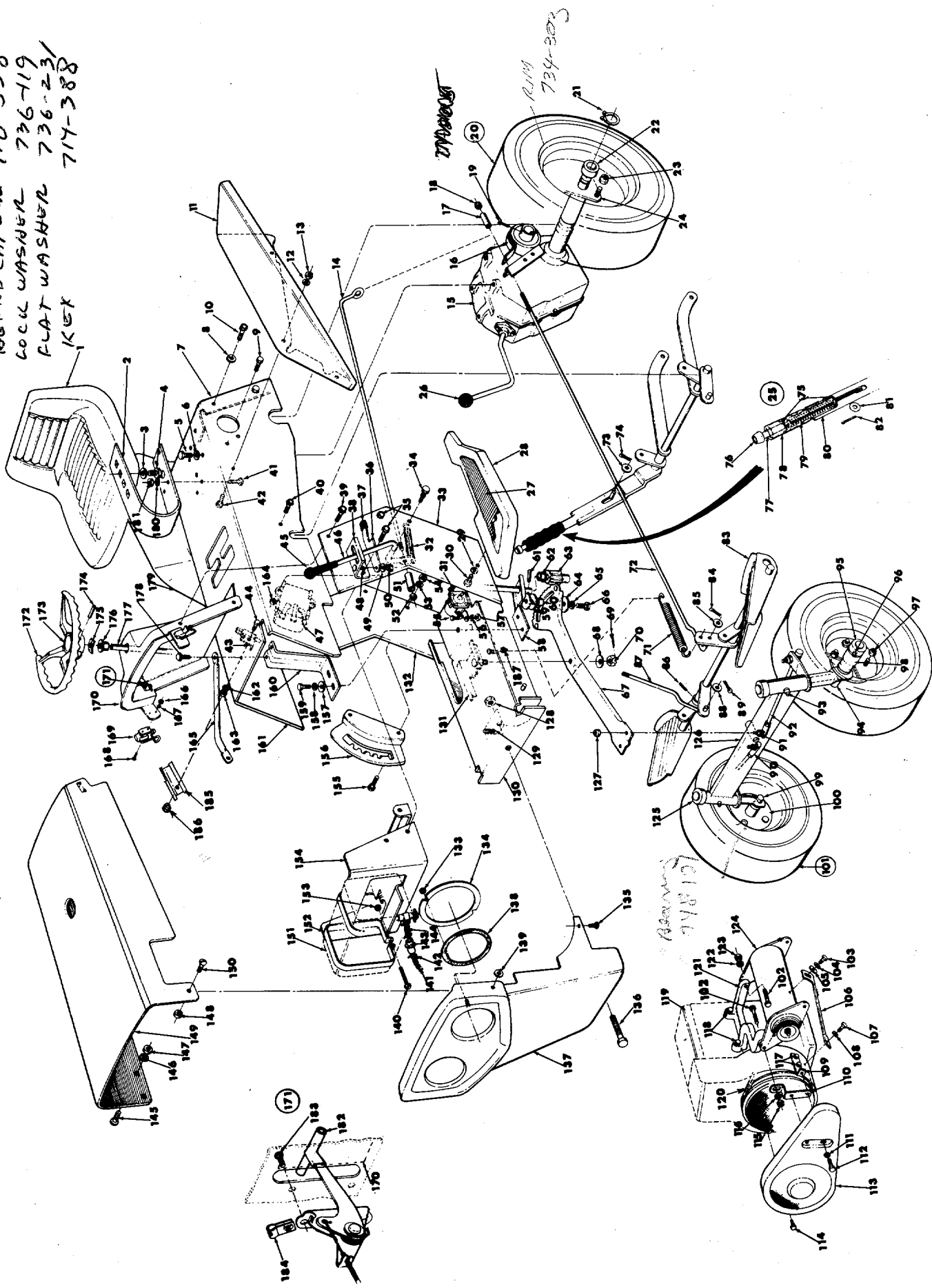


FIGURE 30

MODEL NO. 142-669

PARTS LIST FOR TRAC

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	737-222	Seat Spring	65	736-169	Spring Lockwasher 3/8" Scr.*	132	488-8588	Frame Side Plate
2	732-266	Spring Lockwasher 1/2" Scr.*	66	710-344	Hex Hd. Cap Scr. 3/8-16 x 1.50" Lg.*	133	712-121	Hex Nut 10-24 Thd.*
3	736-921	Hex Hd. Cap Scr. 5/16-18 x .88 Lg.	67	438-8599	Steering Segment Assembly	134	488-9960	Head Light Retainer
4	710-365	Hex Hd. Cap Scr. 3/8-16 x .75" Lg.*	68	736-112	Belleville Washer .535 I.D. x 1.51 O.D. x .052 Thk.	135	710-298	Hex Sems Scr. 5/16-18 .75" Lg.*
5	710-216	Spring Lockwasher 3/8" Scr.*	69	712-114	Coiler Pin 1/8" Dia. x 1.00" Lg.*	136	438-9958	Grille Assembly
6	736-169	Rear Frame Sub Assembly	70	712-114	Coiler Pin 1/8" Dia. x 1.00" Lg.*	137	712-112	Head Lamp Gasket
7	438-8589	Spring Lockwasher 3/8" Scr.*	71	732-180	Extension Spring	138	736-142	Head Washer .28 I.D. x 500 O.D. x .063 Thk.
8	736-169	Spring Lockwasher 3/8" Scr.*	72	711-203	Brake Rod	139	710-279	Filliter Mach. Scr. 1/4-20 x 1.75" Lg.
9	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x .75" Lg.*	73	736-234	Coiler Pin 1/8" Dia. x .75" Lg.*	140	712-153	Gas Hose 1/2" I.D. x 1/2" O.D. x 10 1/2" Lg.
10	312-8695	Fender-Left Hand	74	714-474	Coiler Pin 1/8" Dia. x .75" Lg.*	141	723-157	Hose Clamp 1/2" O.D.
11	712-287	Spring Lockwasher 1/2" Scr.*	75	736-300	Flat Washer .385 I.D. x .870 O.D. x .060 Thk	142	723-154	Gas Filter
12	712-287	Spring Lockwasher 1/2" Scr.*	76	726-110	Spacer	143	723-152	Gas Hose 1/2" I.D. x 1/2" O.D. x 1 1/2" Lg.
13	747-100	Brake Rod-Hand	77	305-8818	Spring	144	710-286	Truss Hd. Mach. Scr. 1/4-20 x .50" Lg.*
14	712-100	Brake Rod-Hand	78	732-156	Compression Spring	145	736-329	Spring Lockwasher 1/2" Scr.*
15	901-8622	Tras Axle	79	732-156	Compression Spring	146	712-287	Hex Nut 1/4-20 Thd.*
16	901-8622	Tras Axle	80	732-156	Compression Spring	147	712-287	Hex Nut 1/4-20 Thd.*
17	730-187	Spacer Tube	81	732-156	Compression Spring	148	712-324	Hex Inserted Lock Nut 1/4-20 Thd.*
18	712-499	Hex Inserted Lock Nut 5/16-18 Thd.	82	714-474	Lift Handle Assembly	149	10101	Truss Hd. Mach. Scr. 1/4-20 x .75" Lg.*
19	710-464	Sq. Hd. Scr. 5/16-18 x .38" Lg.	83	438-8653	Foot Pedal Assembly	150	710-255	Gas Tank
20	734-264	Rear Wheel Assy. Complete	84	714-474	Coiler Pin 1/8" Dia. x .75" Lg.*	151	723-149	Hex Nut 1/4-20 Thd.*
21	710-127	Snap Ring 1.00" Dia.	85	736-264	Flat Washer .344 I.D. x .625 O.D. x .063 Thk.	152	723-151	Battery Box Assembly
22	712-193	Cone Nut 3/8-24 Thd.	86	710-938	Set Scr. 1/28 x .25" Lg.*	153	712-287	Hex Hd. Cap Scr. 3/8-16 1.00" Lg.*
23	11313	Rear Hub Assembly	87	711-218	Clutch Rod	154	438-8638	Index Bracket
24	11321	Lift Handle Assembly Complete	88	736-264	Flat Washer .344 I.D. x .625 O.D. x .063 Thk.	155	710-253	Gas Tank-Strap
25	725-116	Foot Mat-Left Hand	89	714-474	Coiler Pin 1/8" Dia. x .75" Lg.*	156	11515	Hex Nut 1/4-20 Thd.*
26	735-148	Foot Mat-Right Hand	90	712-116	Hex Inserted Lock Nut 3/8-24 Thd.	157	736-300	Flat Washer .385 I.D. x .87 Q.D. x .060 Thk.
27	735-148	Foot Mat-Right Hand	91	711-209	Grease Fitting	158	736-169	Spring Lockwasher 3/8" Scr.*
28	11517	Running Board Assembly-Left Hand	92	737-107	Coiler Pin 1/8" Dia. x .75" Lg.*	159	710-253	Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.*
29	736-169	Spring Lockwasher 3/8" Scr.*	93	438-8609	Axle Assembly-Left Hand	160	438-8618	Reinforcement Bracket Assembly
30	710-253	Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.*	94	348-8609	Coiler Pin 1/8" Dia. x .75" Lg.*	161	438-8698	Frame Assembly Complete
31	725-270	Solenoid	95	711-518	Sq. Hd. Set Scr. 5/16-18 x .38" Lg.*	162	736-329	Spring Lockwasher 1/2" Scr.*
32	725-264	Extension Spring	96	712-181	Hex Top Locknut 3/8-16 Thd.	163	712-287	Hex Nut 1/4-20 Thd.*
33	438-8588	Frame Side Plate	97	712-181	Hex Top Locknut 3/8-16 Thd.	164	438-9315	Hex Inserted Locknut 1/2-20 Thd.
34	711-220	Step Screw-Special	98	748-8608	Flange Bearing 257 I.D. (Front Wheel Hub)	165	438-9315	Hex Inserted Locknut 1/2-20 Thd.
35	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x .75" Lg.*	99	11526	Flange Bearing 257 I.D. (Front Wheel Hub)	166	712-472	Hex Nut #6-32 x 1.00" Lg.*
36	11304	Lockout Lever (Parking Brake)	100	502-10108	Front Wheel-Hub Assembly	167	736-207	Hex Nut #6-32 x .33" Lg.*
37	11249	Knob (for Lockout Lever)	101	502-10108	Front Wheel-Hub Assembly	168	710-267	External Lockwasher #6 Ser.*
38	11300	Hand Brake Bracket Assembly	102	710-380	Briggs and Stratton Part	169	723-209	Truss Hd. Mach. Scr. #6-32 x .33" Lg.*
39	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x .75" Lg.*	104	---	Briggs and Stratton Part	170	10094	Hood Latch
40	710-322	Sems Hex Hd. Cap Scr. 5/16-18 x .75" Lg.*	105	736-264	Briggs and Stratton Part	171	746-161	Dash Panel Assembly
41	710-322	Sems Hex Hd. Cap Scr. 5/16-18 x 1.00" Lg.*	106	---	Briggs and Stratton Part	172	723-205	Throttle Control-Complete
42	710-238	Safety Switch	107	---	Briggs and Stratton Part	173	723-207	Steering Wheel
43	725-268	Hand Brake Lever	108	---	Briggs and Stratton Part	174	715-121	Steering Wheel Cap
44	710-206	Grip-Hand Brake	109	---	Briggs and Stratton Part	175	712-222	Spiral Pin 1/4" Dia. x 2.00" Lg.*
45	11513	Voltage Regulator	110	---	Briggs and Stratton Part	176	748-227	Push Nut 1/4" I.D.
46	725-120	Part of Ref. No. 38	111	736-329	Spring Lockwasher 1/2" Scr.*	177	711-403	Hex Flange Bearing .630 I.D.
47	725-120	Part of Ref. No. 38	112	710-258	Hex Hd. Cap Scr. 1/2-20 x .62" Lg.*	178	710-253	Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.*
48	---	Part of Ref. No. 38	113	312-9284	Self Cover Assembly	180	736-119	Fender-Right Hand
49	736-142	Flat Washer .28" I.D. x .500 O.D. x .063 Thk	114	710-148	Self Tapping Screw #8-32 x .38" Lg.	181	712-267	Spring Lockwasher 5/16" Scr.*
50	712-324	Hex Inserted Locknut 1/4-20 Thd.	115	712-267	Self Tapping Screw #8-32 x .38" Lg.	182	722-111	Hex Nut 5/16-18 Thd.*
51	711-318	Sleeve .385 I.D. x .510 O.D. x 1.57" Lg.	116	736-119	Briggs and Stratton Part	183	710-192	Truss Hd. Mach. Scr. #10-24 x .38" Lg.*
52	712-324	Hex Inserted Locknut 1/4-20 Thd.	117	---	Briggs and Stratton Part	184	712-147	Speed Nut #10-24 "U"-Type
53	736-148	External Lockwasher 3/8" Scr.*	118	---	Briggs and Stratton Part	185	11525	Switch Cover
54	712-798	Hex Nut 3/8-16 Thd.*	119	---	Briggs and Stratton Part	186	712-324	Hex Inserted Lock Nut 1/4-20 Thd.
55	710-258	Hex Hd. Cap Scr. 1/2-20 x .62" Lg.*	120	754-134	Engine	187	726-106	Push-on Flange Pinout
56	734-299	Spring Lockwasher 1/2" Scr.*	121	---	SAE 380 "V"-Belt 33" Lg.	188	723-159	Gas Valve-For Gas Tank (Not Numbered on Illus.)
57	712-387	Hex Nut 1/4-20 Thd.*	122	736-119	Spring Lockwasher 5/16" Scr.*	189	723-155	Gas Gauge (Not Shown)
58	10043	Lower Mount Bracket Assembly	123	712-267	Hex Nut 5/16-18 Thd.*	190	714-314	Hi Pro Key 3/16 x 3/8" Dia. (Located Under Brake Disc) (Not Shown)
59	310-7386	Flat Washer	124	725-143	Starter Generator	191	714-113	Hi Pro Key .25 x 7/8" Dia. (One Under Each Rear Wheel Hub) (Not Shown)
60	750-141	Spacer .420 I.D. x .505 O.D. x .317" Lg.	125	711-518	Coiler Pin 1/8" I.D.	192	712-711	Hex Nut 3/8-24 Thd.* (For Tie Rods) (Not Numbered on Illus.)
61	715-247	Spiral Pin 3/16" Dia. x 1.00" Lg.*	126	438-8614	Pivot Bar Assembly			
62	748-227	Hex Flange Bearing .630 I.D.	127	712-216	Hex Inserted Lock Nut 3/8-24 Thd.			
63	717-137	Spur Gear	128	712-923	Hex Center Lock Nut 3/8-18 Thd.			
64	310-7386	Flat Washer	129	710-380	Hex Hd. Cap Scr. 5/16-18 x 1.75" Lg.			
			130	438-8591	Front Frame Assembly			
			131	---	Part of Ref. No. 130			

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally order by part number and size as shown on parts list.

437 - Flag Red) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e.g.
 312 - White) Polar Blue Finish-10094 (438).
 488 - Polar Blue)



The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines-Gasoline."

PULLEY ASSEMBLY FOR MODEL 142-669

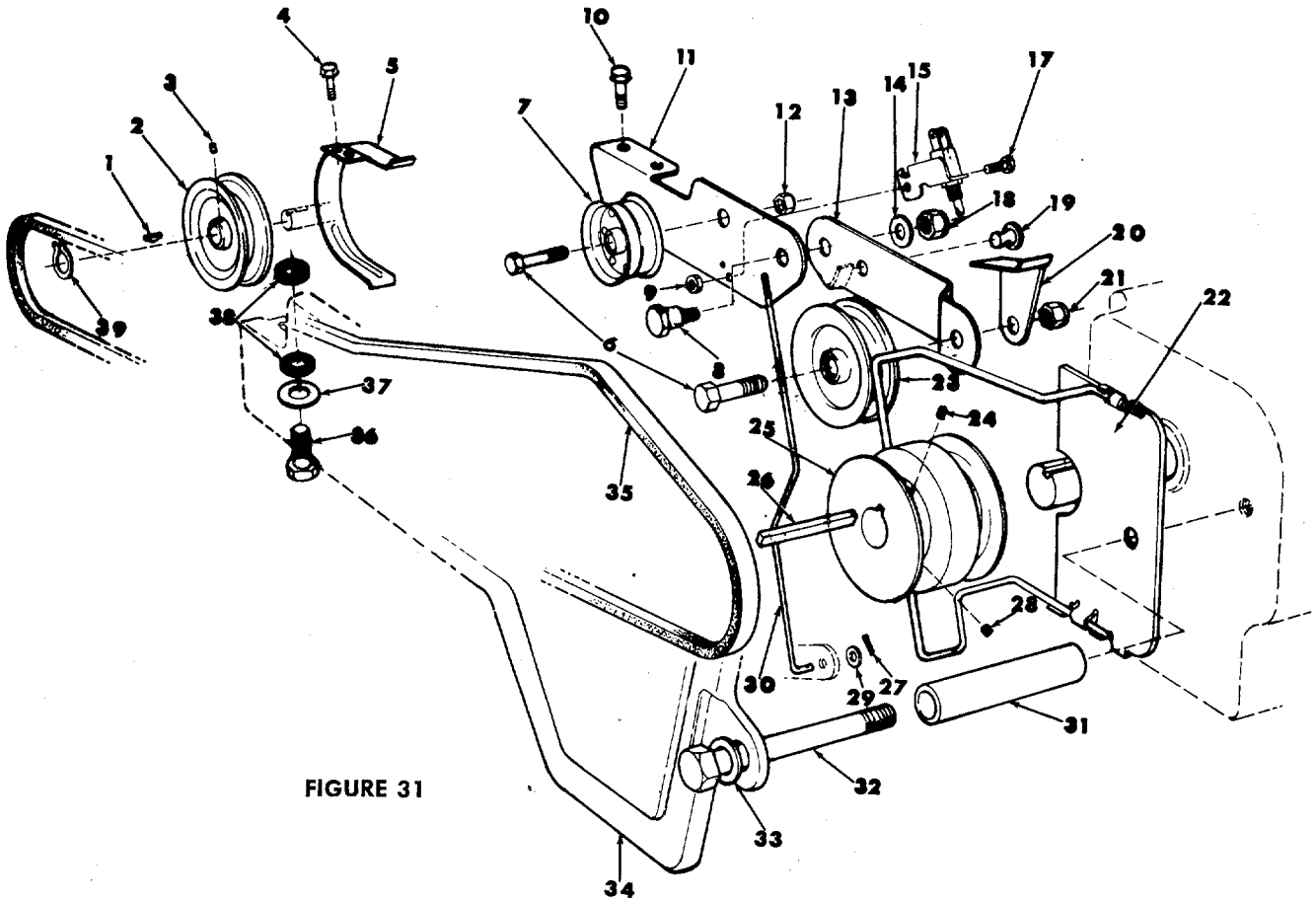


FIGURE 31

PARTS LIST FOR THE PULLEY ASSEMBLY MODEL NO. 142-669

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	714-314	Hi Pro Key 3/16 x 3/4" Dia.*	21	712-116	Hex Inserted Locknut 3/8-24 Thd.
2	756-118	Pulley 4.75 O.D., .75 I.D.	22	438-8689	Belt Trapout Bracket Assembly
3	710-494	Sq. Hd. Set Scr. 5/16-18 x .38" Lg.*	23	756-116	"V" Idler
4	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x .75" Lg.	24	710-421	Set Scr. 5/16-18 x 25" Lg.*
5	438-8616	Belt Guard Assembly	25	756-140	Engine Pulley
6	710-459	Hex Hd. Cap Scr. 3/8-24 x 1.50" Lg.*	26	714-114	Sq. Key 1/4" x 1/4" x 2.00" Lg.*
7	756-117	Flat Idler	27	714-474	Cotter Pin 1/8" Dia. x .75" Lg.*
8	738-143	Shoulder Bolt	28	710-421	Set Scr. 5/16-18 x .25" Lg.*
9	712-287	Hex Nut 1/4-20 Thd.*	29	736-264	Flat Washer .344 I.D. x .625 O.D. x .063 Thk.
10	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x .75" Lg.	30	711-218	Clutch Rod
11	438-8620	Clutch Mounting Bracket Assembly	31	750-125	Spacer .525 I.D. x .755 O.D. x 3.01" Lg.
12	712-116	Hex Inserted Locknut 3/8-24 Thd.	32	710-285	Hex Hd. Cap Scr. 1/2-20 x 3.75" Lg.*
13	438-9200	Clutch Bracket	33	736-114	Internal Lockwasher .50 I.D.
14	736-300	Flat Washer .385 I.D. x .87 O.D. x .060 Thk.	34	312-8838	Belt Guard
15	725-268	Safety Switch	35	754-112	5L "V" Belt 21/32 x 80" Lg.
17	710-258	Hex Hd. Cap Scr. 1/4-20 x .62" Lg.*	36	710-117	Hex Hd. Cap Scr. 5/16-24 x 1.00" Lg.*
18	712-130	Hex Inserted Locknut 3/8-16 Thd	37	736-264	Flat Washer .344 I.D. x .625 O.D. x .063 Thk.
19	711-179	Ferrule	38	735-126	Rubber Washer .33 I.D. x .87 O.D. x .32 Thk.
20	438-8664	Belt Keeper	39	716-102	Snap Ring 1.00" Dia.

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally order by part number and size as shown on parts list.

ELECTRICAL SYSTEM FOR MODEL NO. 142-669 TRACTOR

FUSE-STANDARD 3AG TYPE 7½ AMPS. 32 VOLTS 1¼" LONG X ¼" DIA. AVAILABLE AT MOST RADIO-TV SHOPS, SERVICE STATIONS AND AUTOMOTIVE STORES.

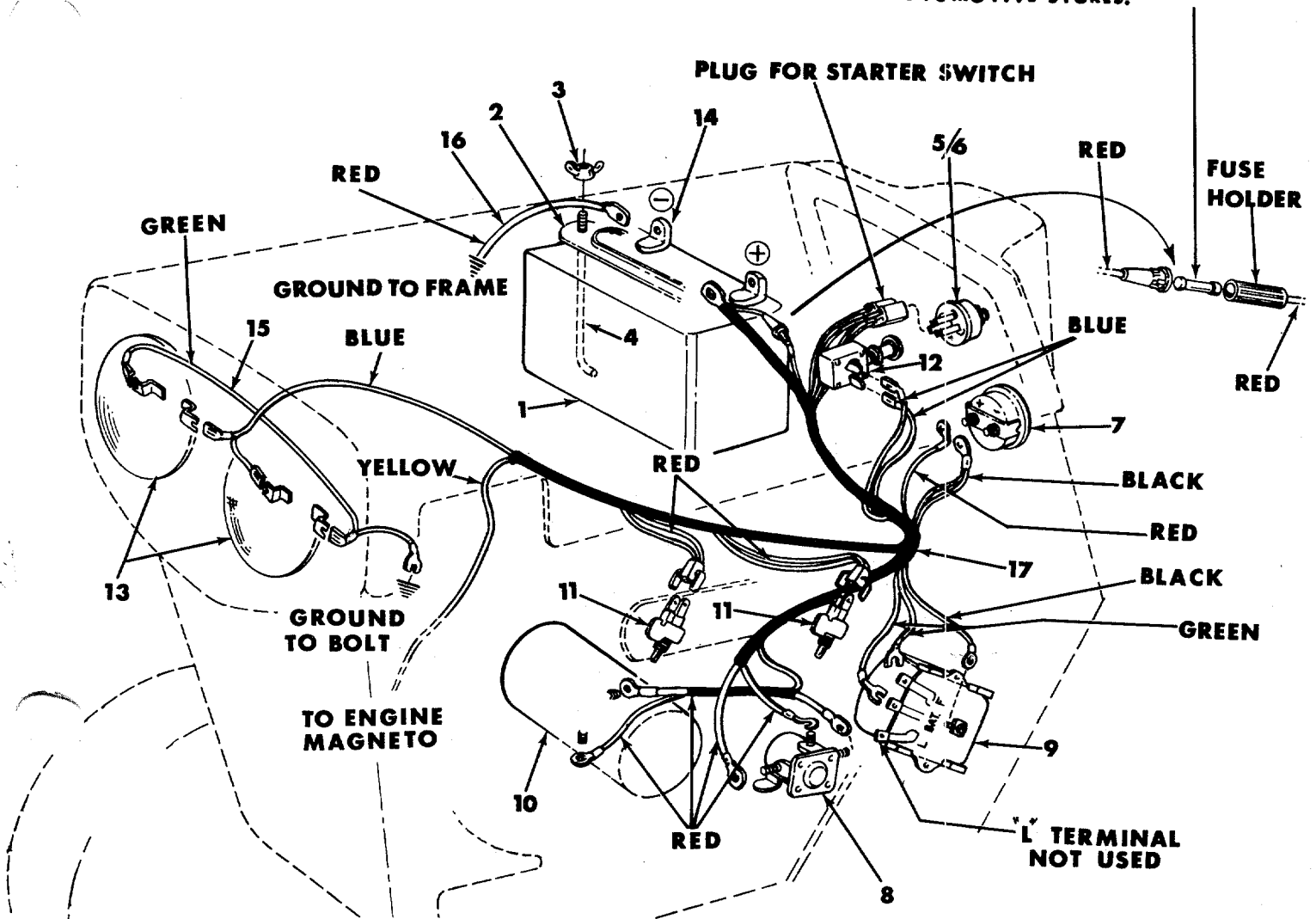


FIGURE 32

PARTS LIST FOR MODEL 142-669 ELECTRICAL SYSTEM

REF. NO.	PART NO.	DESCRIPTION
1	725-117	Battery 12 Volt 32 Amp.
2	348-8821	Battery Hold-down
3	712-113	Wing Nut (2 Req'd)
4	711-222	Battery Hold Down Rod (2 Req'd.)
5	725-267	Ignition Switch
6	725-	Ignition Key
7	725-119	Ammeter
8	725-270	Solenoid
9	725-120	Voltage Regulator
10	725-143	Starter Generator
11	725-268	Safety Switch
12	725-202	Light Switch
13	725-222	Headlamp
14	710-258	Hex Hd. Cap Scw. ¼-20 x 5/8" Lg.* (2 Req'd.)
	712-287	Hex Nut ¼-20 Thd.* (2 Req'd)
	736-329	Spring Lockwasher ¼" Scw.* (2 Req'd)
15	725-204	Electric Wire (Green)
16	725-122	Electric Wire (Red)
17	725-271	Wiring Harness Complete
18	725-298	Fuse 7½ Amp.
19	712-123	Hex Nut 5/16-24 Thd.* (2 Req'd.) (For Solenoid Terminals) (Not Shown)

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally order by part number and size as shown on parts list.

PARTS ILLUSTRATION FOR TRANSAXLE (PEERLESS MODEL 1205)

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	784095	Lever & Housing Ass'y (Includes Nos. 2 thru 7)	35	786014	Spacer
2	792016	Ring, Snap	36	778022	Gear, Spur (22 Teeth)
3	792001	Ring, Quad	37	786015	Spacer
4	792002	Pin, Roll	38	778023	Gear, Spur (16 Teeth)
5	784088	Housing, Shift Lever	39	776015	Shaft, Input
6	784094	Keeper, Shift Lever	40	778024	Spur Gear, Input Shaft
7	784096	Lever Shift	41	780001	Washer
8	784056	Rod Ass'y, Shift (Includes Nos. 9 thru 12)	42	786017	Spacer
9	792003	Spring	43	778036	Gear, Output
10	792004	Ball, Steel	44	778041	Pinion, Output
11	784004	Fork, Shifter	45	788008	Seal, Oil
12	784057	Rod, Shifter	46	782022	Hsg. & Bushing Ass'y, L.H. Axle (Includes No. 51)
13	784054	Rod Assembly, Shift (Includes Nos. 9, 10, 11, 14 and 55)	46A	782023	Hsg. & Bushing Ass'y, R.H. Axle (Includes No. 51)
14	784055	Rod, Shifter	47	772045	Cover Assembly, Transaxle (Includes Nos. 57 & 58)
15	774067	Axle w/2 Key Seats—L.H.	48	770033	Case Assembly, Transaxle (Includes Nos. 56 & 57)
15A	774068	Axle w/2 Key Seats—R.H.	49	792007	Screw, Socket Head Cap 1/4-20 x 3/4
16	780042	Washer, Thrust	50	786026	Pin, Dowel
17	792020	Screw, Hex Hd. Cap 1/4-20 x 2 1/4	51	780054	Bushing
18	792006	Lockwasher, 1/4"	52	792010	Plug, Pipe
19	778033	Gear, Ring	53	778039	Gear, Bevel
20	786019	Pin, Drive	54	792018	Ring, Snap
21	786027	Block Drive	55	792017	Ring, Snap
22	778014	Pinion, Bevel	56	780011	Bearing
23	776022	Pinion & Bushing Ass'y, Idler	57	780013	Bearing
25	776014	Shaft & Bearing Ass'y, Shifter (Includes No. 26)	58	780055	Bearing
26	780018	Bearing	59	792012	Screw, Socket Head Set 3/8-16 x 3/8
27	778037	Gear, Idler	60	788009	Seal, Oil
28	776032	Shaft, Idler	64	776008	Shaft, Reverse Idler
29	784074	Stop, Shifter	65	786008	Spacer, Reverse Idler
30	788026	Gasket, Case to Cover	66	778016	Idler, Reverse
31	788003	Gasket, Shift Lever Housing	68	780039	Bearing, Thrust
32	778019	Gear, Shifting	69	774029	Carrier, Differential
33	778020	Gear, Shifting	70	774028	Carrier, Differential
34	778021	Gear, Spur (26 Teeth)			

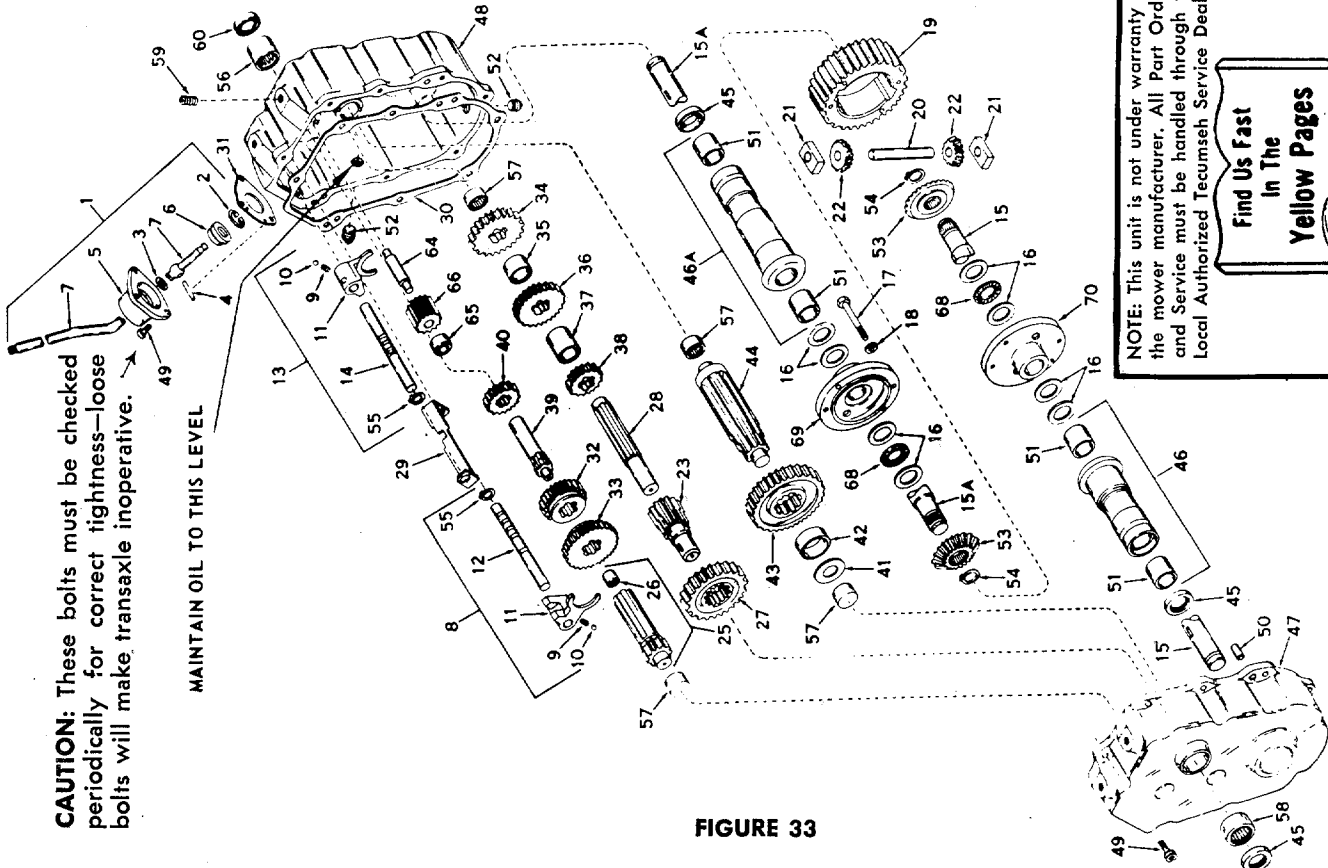
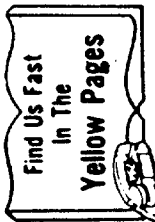


FIGURE 33

NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the Local Authorized Tecumseh Service Dealer.



PEERLESS MODEL 1205
 This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

32" MOWING UNIT
MODEL NO. 192-651

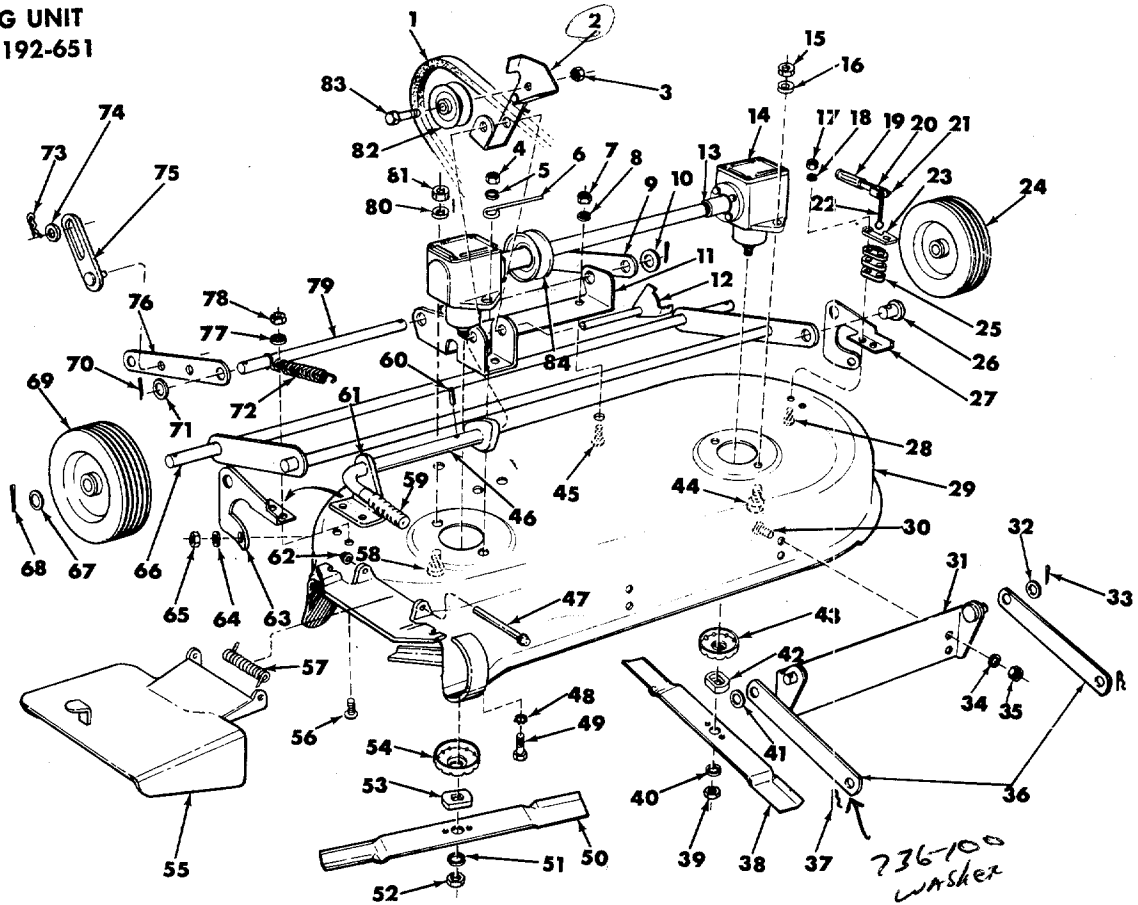


FIGURE 34

PARTS LIST FOR MOWING UNIT 192-651

REF NO	PART NO.	DESCRIPTION	REF NO	PART NO.	DESCRIPTION
1	754-113	5L "V"-Belt 21/32 x 48" Lg.	44	710-253	Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.*
2	310-8627	Idler Bracket Assembly	45	710-260	Carriage Bolt 5/16-18 x .62" Lg.*
3	712-116	Hex Inserted Locknut 3/8-24 Thd.	46	11502	Lockout Handle Assembly
4	712-711	Hex Jam Nut 3/8-24 Thd.	47	711-571	Pivot Pin
5	736-169	Spring Lockwasher 3/8" Scr.*	48	736-148	External Lockwasher 3/8" Scr.*
6	723-148	Belt Guard	49	710-191	Hex Hd. Cap Scr. 3/8-24 x 1.25" Lg.*
7	712-267	Hex Nut 5/16-18 Thd.*	50	742-119	Blade 16 inch
8	736-119	Spring Lockwasher 5/16" Scr.*	51	736-158	Spring Lockwasher 3/8" Scr.*
9	11506	Deck Link	52	712-923	Hex Center Locknut 5/8-18 Thd.*
10	736-116	Flat Washer .635 I.D. x .930 O.D. x .060 Thk.	53	748-140	Drive Collar
11	438-8652	Rear Deck Bracket	54	310-8855	Drive Cup
12	11514	Lockout Bracket Assembly	55	11633-23	Chute Deflector
13	716-107	"E"-Ring	56	710-260	Carriage Bolt 5/16-18 x .62" Lg.*
14	—	Right Angle Drive Assembly	57	732-261	Torsion Spring
15	712-798	Hex Nut 3/8-16 Thd.*	58	710-253	Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.*
16	736-169	Spring Lockwasher 3/8" Scr.*	59	720-152	Grip
17	712-267	Hex Nut 5/16-18 Thd.*	60	715-247	Spirol Pin 3/16" Dia. x 1.00" Lg.*
18	736-119	Lockwasher 5/16" Scr.*	61	11505	Support Bracket
19	305-2186	Handle Grip	62	726-106	Push-on Flange Palnut
20	310-8696	Adjustment Handle Assembly	63	438-8636	Mounting Bracket—Right Hand
21	715-103	Spiral Pin 1/8" Dia. x .75" Lg.	64	736-119	Spring Lock Washer 5/16" Scr.*
22	711-204	Adjustment Screw	65	712-267	Hex Nut 5/16-18 Thd.*
23	310-8634	Keeper Plate	66	438-8684	Wheel Bracket Assembly
24	734-225	Wheel Assembly Complete 6.0" Dia.	67	736-116	Flat Washer .635 I.D. x .930 O.D. x .060 Thk.
25	310-8633	Spacer Plate	68	714-115	Cotter Pin 1/8" Dia. x 1.00" Lg.*
26	711-202	Adjustment Ferrule	69	734-225	Wheel Assembly Complete 6.0" Dia.
27	438-8637	Mounting Bracket—Left Hand	70	714-115	Cotter Pin 1/8" Dia. x 1.00" Lg.*
28	710-161	Carriage Bolt 5/16-18 x 1.25" Lg.*	71	736-116	Flat Washer .635 I.D. x .930 O.D. x .060 Thk
29	11523	Deck Assembly	72	732-178	Extension Spring
30	710-260	Carriage Bolt 5/16-18 x .62" Lg.*	73	714-101	Hairpin Cotter 1/2" Dia.
31	438-8666	Front Bracket Assembly	74	736-160	Flat Washer .531 I.D. x .93 O.D. x .050 Thk.
32	736-160	Flat Washer .531 I.D. x .93 O.D. x .050 Thk.	75	11516	Lockout Link Assembly
33	714-115	Cotter Pin 1/8" Dia. x 1.00" Lg.*	76	11506	Deck Link
34	736-119	Spring Lockwasher 5/16" Scr.*	77	736-119	Spring Lock Washer 5/16" Scr.*
35	712-267	Hex Nut 5/16-18 Thd.*	78	712-267	Hex Nut 5/16-18 Thd.*
36	11506	Deck Link	79	438-8668	Shaft
37	714-101	Hair Pin Cotter 1/2" Dia.	80	736-169	Spring Lock Washer 3/8" Scr.*
38	742-119	Blade 16 inch	81	712-798	Hex Nut 3/8-16 Thd.*
39	712-923	Hex Center Locknut 5/8-18 Thd.	82	756-116	"V"-Idler
40	736-158	Spring Lockwasher 3/8" Scr.*	83	710-459	Hex Hd. Cap Scr. 3/8-24 x 1.50" Lg.
41	736-160	Flat Washer .531 I.D. x .93 O.D. x .050 Thk.	84	756-184	Pulley 3.25 O.D. x 3/8 I.D.
42	748-140	Drive Collar	85	710-765	Set Scr. 5/16-24 x .25" Lg.* (2-Req'd.) (Not Shown)
43	310-8855	Drive Cup			

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally order by part number and size as shown on parts list.

KEY 714-12

RIGHT ANGLE DRIVE MODEL NO. (PEERLESS MODEL RA 15752)

FOR 32" MOWING UNIT 192-651

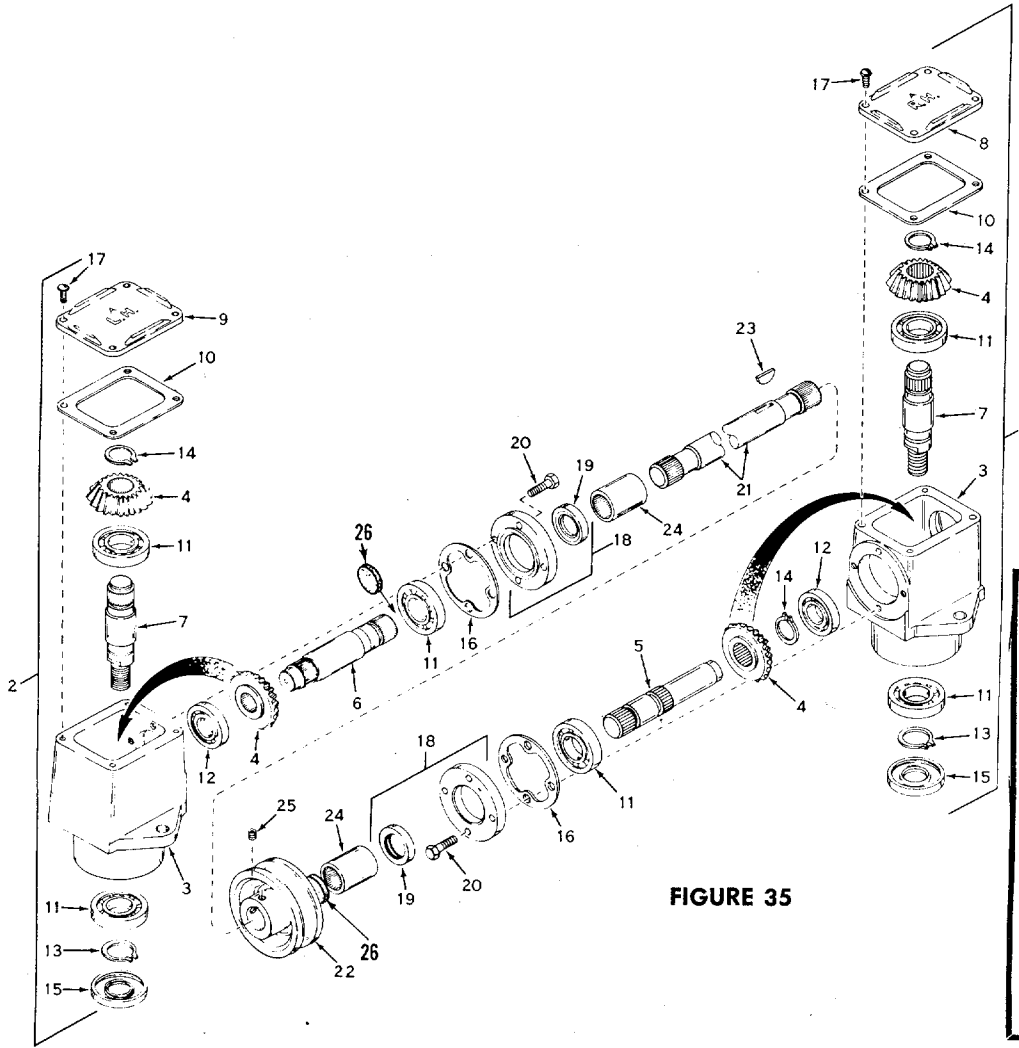


FIGURE 35

NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the Local Authorized Tecumseh Service Dealer.



PEERLESS MODEL
 This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

PARTS LIST FOR RIGHT ANGLE DRIVE MODEL NO. (PEERLESS MODEL RA 15752)

Ref. No.	Part Number	PART NAME
1	794001	Head Assy., Right Hand (Incl. Nos. 3, 4, 5, 7, 8 and 10 thru 18)
2	794002	Head Assy., Left Hand (Incl. Nos. 3, 4, 6, 7, and 9 thru 18)
3	770026	Housing, Right Angle Drive
4	778046	Gear, Miter
5	776040	Shaft, Input Pinion
6	776041	Shaft, Input Pinion
7	776042	Shaft, Output
8	772034	Cover, Right Hand
9	772035	Cover, Left Hand
10	788028	Gasket, Cover
11	780034	Bearing, Ball
12	780024	Bearing, Ball
13	788019	Ring, Snap
14	788018	Ring, Snap
15	788029	Seal, Oil
16	788030	Gasket, Cap
17	792025	Screw, Rd. Hd. Self Tap, 10-24 x 1/2
18	786029	Cap & Seal Assy., Retainer (Incl. Nos. 19 & 20)
19	788031	Seal, Oil
20	792026	Screw, Hex Hd., 1/4-20 x 7/8
21	776043	Shaft, Input Connector
22	786037	Sheave
23	786184	Key, Woodruff, 3/16 x 3/4
24	786031	Coupling, Input Shaft
25	792027	Set Screw, Knurled Hd. Cup Pt., 5/16-24 x 1/4
26	1138 X 1	Felt Disc

714-126

788039

BATTERY WARRANTY CERTIFICATE

The following general warranty policy applies to all batteries sold by IBMA members using this warranty. The nationwide warranty applies only to batteries bearing the IBMA seal of approval.

All new batteries sold by IBMA members carry a warranty against faulty material or workmanship for 90 days from date of purchase. A faulty battery is to be adjusted, repaired or replaced with a new battery by an IBMA member, jobber or dealer only, or the warranty becomes void. An IBMA type battery that is faulty within the 90 day period is to be repaired or replaced with a new battery F.O.B. any IBMA factory supplier or any IBMA authorized dealer, without charge.

Your battery carries a further warranty on a pro-rata adjustment basis covering the number of months determined by the class of service and type of battery. In determining the exchange cost of a new battery, charges will be made for months of service used and the warranty is valid to the original purchaser only.

IBMA approved factory suppliers, as well as all IBMA authorized dealers, are to honor this Warranty. If your IBMA approved battery carries the IBMA seal of approval, this Warranty is to be honored by dealers handling IBMA approved batteries everywhere. (Independent Battery Manufacturers Association, Inc.)

Failures in service that are caused by fire, collision, freezing, abuse, faulty electrical equipment or the use of a battery of a group size smaller or specifications lower than the original battery are not covered by this policy.

BATTERY MANUFACTURER MEMBERSHIP LIST

ALABAMA	Express Bty. Div. Leeth Brothers	Contract Bty. Mfg. Yocam Batteries	Shreveport Central Bty.	Maryland Heights Electro Bty. Mfg.	OREGON	Memphis Central Battery
Birmingham	FLORIDA	ILLINOIS	MARYLAND	Sikeston Electro Bty.	Beaverton Western Bty., Inc.	Lahe Bty. Prod.
Southern Bty.	Fort Lauderdale	Belleville	Baltimore	NEW JERSEY	Portland Lahe Bty. Prod.	Nashville
Yocam Batteries	Florida Bty.	Bell City Bty. Mfg.	East Penn Mfg.	Atlantic City Landis Battery	PENNSYLVANIA	Electro-Lite Bty.
Mobile	Hialeah	Chicago	MASSACHUSETTS	NEW MEXICO	Altoona East Penn Mfg.	Southern Bty.
Yocam Batteries	East Penn Mfg.	Illinois Bty. Mfg.	Watertown Atlantic Bty.	Albuquerque Sandia Bty. Mfg.	TEXAS	Dallas
Montgomery	Jacksonville	Universal Bty.	MICHIGAN	NEW YORK	Continental Bty.	Reliable Battery
Ebco Battery	Tropex Batteries	Volta Bty. Corp.	Detroit Batteries Mfg.	Buffalo East Penn Mfg.	El Paso El Paso Bty.	Houston
ALASKA	Yocam Batteries	Peoria	Flint ABC Batteries	Lockport Great Lakes Battery	HOUSTON	Texford Bty. Co.
Anchorage	Miami	Red Diamond Bty.	Holly Detroit Battery	NORTH CAROLINA	El Paso Bty.	Reliable Battery
Alaska Husky Bty.	Tropex Batteries	INDIANA	Madison Heights C & W Lektra	Charlotte Yocam Batteries	San Antonio	Reliable Battery
ARKANSAS	Yocam Batteries	Muncie	Warren G & M Battery	Philadelphia East Penn Mfg.	Reliable Battery	UTAH
Hot Springs	Orlando	Stout Storage Bty.	MINNESOTA	Pittsburgh Simon Bty. & Res.	Salt Lake City Lahe Bty. Prod.	Reliable Battery
Red Diamond Bty.	Yocam Batteries	IOWA	St. Paul Standard Storage Bty.	Geidel Bty. Div.	VIRGINIA	Arlington
CALIFORNIA	Pensacola	Corydon Voltmaster	MISSISSIPPI	OHIO	Arlington Express Bty. Div.	Express Bty. Div.
Los Angeles	Yocam Batteries	Council Bluffs Reliance Bty. Prod.	Florence Contract Bty. Mfg.	Akron Crown Battery	Lahe Bty. Prod.	Leeth Bros.
Estee Battery	St. Petersburg	Des Moines Voltmaster	Jackson Central Bty.	Cincinnati Moore Battery	SOUTH CAROLINA	Lynchburg
Lahe Bty. Prod.	Electro Battery Co.	KANSAS	New Albany Lahe Bty. Prod.	Cleveland Crown Battery	Columbia Yocam Batteries	Hydrate Battery
Oakland	Tampa	Kansas City	MISSOURI	New Castle Bty.	TENNESSEE	WASHINGTON
Lahe Bty. Prod.	Bilt-Rite Bty. Mfg.	American Batteries	Joplin Lead Products	Columbus Crown Battery	Chattanooga Electro-Lite Bty.	Seattle
Sacramento	Contract Bty. Mfg.	Contract Bty. Mfg.		Fremont Crown Battery	Knoxville Southern Bty.	Lahe Bty. Prod.
Lahe Bty. Prod.	DeSoto Bty. & Elec.	KENTUCKY				CANADA
San Francisco	Tropex Batteries	Whitesburg Electro-Lite Bty.				Vancouver, B. C.
Amp King Bty.	Yocam Batteries	LOUISIANA				Industrial Bty. & Supply
Lahe Bty. Prod.	GEORGIA	New Orleans				
Pico Bty. Mfg.	Albany	Central Bty.				
Stockton	Ebco Battery	Reliable Bty.				
Stockton Battery	Atlanta					
COLORADO	Ebco Battery					
Denver	Southern Bty.					
Moore Battery	Yocam Batteries					
D. C.	Columbus					
Washington	Ebco Battery					

WARRANTY

For one year from date of purchase, MTD Products Inc will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.

PARTS INFORMATION

MOWER, TILLER, SNOW THROWER AND TRACTOR PARTS

Mower, tiller, snow thrower and tractor parts are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

- A 1 Engine & Mower Co.**
327 East 9th Street
Salt Lake City, Utah 84102
- American Electric Ignition Co.**
124 N. W. 8th Street
Oklahoma City, Oklahoma 73102
- Auto Electric & Carburetor Co.**
2625 4th Avenue, S.
P. O. Box 1948
Birmingham, Alabama 35233
- Automotive Equipment Service Co.**
3117 Holmes Street
Kansas City, Missouri 64109
- Bailey's Rebuild Inc.**
1325 E. Madison Street
Seattle, Washington 98102
- Brown Equipment Distributor Inc.**
110 Beech Street
Corydon, Indiana 47112
- Bullard Supply**
2409 Commerce Street
Houston, Texas 77003
- Center Supply Company**
6867 New Hampshire Avenue
Takoma Park, Maryland 20012
- R. T. Clapp Co.**
2016 Magnolia Ave., N. E.
Knoxville, Tennessee 37917
- W. B. Clements**
400 Salem Avenue
Roanoke, Virginia 24016
- Morton B. Collins Co.**
300 Birnie Avenue
Springfield, Massachusetts 01107
- Dixie Sales Company**
P. O. Box 1408
327 Battleground Avenue
Greensboro, North Carolina 27402

- East Point Cycle & Key Shop**
1617 Whiteway
East Point, Georgia 30044
- Gamble Distributors**
West End Avenue
Carthage, New York 13619
- Garden Equipment Co., Inc.**
6600 Cherry Avenue
Long Beach, California 90805
- Henzler, Inc.**
2015 Lemay Ferry Road
St. Louis, Missouri 63125
- Frank E. Ives & Son**
1101 Lincoln Avenue
Prospect Park, Pennsylvania 19076
- J. W. Jewett Co.**
981 Folsom Street
San Francisco, California 94107
- Kenton Supply**
8216 North Denver Avenue
Portland, Oregon 97217
- Kimber's Inc.**
615 W. Genesee Street
Syracuse, New York 13204
- Marr Brothers**
423 E. Jefferson
Dallas, Texas 75203
- Mathews Auto Electric Co.**
420 East 2nd Street
Tulsa, Oklahoma 74120
- McClure Lawn & Garden Supply**
1114 Lexington Avenue
Mansfield, Ohio 44907
- Memphis Cycle & Supply Co.**
421 Monroe Avenue
Memphis, Tennessee 38103

ENGINE PARTS AND SERVICE

Engine parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines - Gasoline*, Briggs and Stratton or Tecumseh Lauson - Power Products.

- Moz-All of Florida, Inc.**
365 Greco Avenue
Coral Gables, Florida 33146
- National Central, Div. of Joe Sterling, Inc.**
Drawer "D" 687 Seville Rd.
Wadsworth, Ohio 44281
- Power Equipment Distributor**
36463 So. Gratiot Avenue
Mt. Clemens, Michigan 48043
- Parts & Sales Inc.**
335 West St. Charles Road
Villa Park, Illinois 60181
- Power Lawn & Garden Equip. Co.**
2551-2571 J. F. Kennedy Road
Dubuque, Iowa 52001
- Raub Supply Company**
James & Mulberry Sts.
Lancaster, Pennsylvania 17604
- Radco Distributors**
2403 Market Street
P. O. Box 3216
Jacksonville, Florida 32206
- Richmond Battery & Ignition**
P. O. Box 25369 - 957 Myers St.
Richmond, Virginia 23260
- Smith Hardware Company**
515 N. George Street
Goldsboro, North Carolina 27530
- South Denver Lawn Equip. Co.**
527 West Evans
Denver, Colorado 80223
- Suhren Engine**
8330 Earhart Blvd.
New Orleans, Louisiana 70118
- Sutton's Lawn Mower Shop**
Route 4, Box 343
North Little Rock, Arkansas 72117
- Warner Equipment**
7520 Lyndale Avenue, So.
Minneapolis, Minnesota 55423