CAUTION:
Read And Follow
All Safety Rules
And Instructions Before
Operating This
Equipment.

Model No.
502.255193

CRAFTSMAN®
12 HP. ELECTRIC START
40” MOWER
6 SPEED
LAWN TRACTOR

- Assembly
- Operation
- Maintenance
- Service and Adjustment
- Repair Parts
This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death to the operator or bystanders.

GENERAL OPERATION:

1. Read, understand, and follow all instructions in the Instruction Book, on the machine, on the engine, and with any attachments before starting.
2. Only allow responsible adults familiar with the instructions to operate the machine.
3. Clear the area of objects such as rocks, toys, wire, etc. which could be picked up and thrown by the blade.
4. Be sure the area is clear of other people before mowing. Stop the machine if anyone enters the area.
5. Never carry passengers.
6. Disengage all attachment clutches and shift into Neutral before attempting to start the engine.
7. Disengage power to the mower or any attachments before backing up. Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
8. Be aware of the direction the mower discharge. Do not point discharge from the mower at anyone or at places where people may be. Do not operate the mower without either the entire grass bagger or the mower guard in place.
9. Slow down before turning.
10. Never leave a machine unattended with the engine running. Always disengage the blade(s), set the parking brake, stop the engine and remove the key before dismounting.
11. Disengage power to attachment(s) when transporting or not in use. Disengage the blade(s) when not mowing.
12. Stop the engine before removing the grass bagger or unclogging the chute.
13. Mow only in daylight or good artificial light.
14. Do not operate the machine while under the influence of alcohol or drugs or when very tired.
15. Watch for traffic when operating near or crossing roadways.
16. Use extra caution when loading or unloading the machine when using a trailer or truck for transporting.
17. Always wear safety glasses or an eye shield when you operate the unit to protect your eyes from foreign objects that can be thrown from the unit. Always wear eye protection when you make an adjustment or repair to the machine.
18. 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 counterweights or wheel weights when suggested in the Instruction Book.

CHILDREN:

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.

1. Keep children out of the mowing area and in the watchful care of an adult other than the operator.
2. Be alert and turn the engine off if children enter the area.
3. Before and when backing, look behind and down for small children.
4. Never carry children or any passengers. They may fall off and be seriously injured or interfere with the safe operation of the machine.
5. Never allow children to operate the machine. Instruct children in the dangers of the machine.
6. Use extra care when approaching blind corners, shrubs, trees or other objects that may obscure vision.
SAFETY RULES - continued

SLOPE OPERATION:

Slopes and rough terrain are major factors related to loss of control and tip over accidents which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on the slope, do not mow it. See the “Slope Guide” in the back of this book to check for safe operation.

DO

1. Mow up and down slopes, not across.
2. Remove obstacles such as rocks, limbs, etc...
3. Watch for holes, ruts or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
4. Use slow speed. Choose a low enough gear so that you will not have to stop or shift while on the slope.
5. Follow the manufacturer’s recommendations for wheel weights or counterweights to improve stability.
6. Use extra care with grass baggers or other attachments, they can change the stability of the machine.
7. Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.
8. Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

DO NOT

1. Do not turn on slopes unless absolutely necessary, then only turn slowly and gradually downhill, if possible.
2. Do not mow near drop-offs, ditches or embankments. A wheel over the edge or an edge caving in could cause a sudden overturn and an injury or death.
3. Do not mow on wet grass. Reduced traction could cause sliding.
4. Do not try to stabilize the machine by putting your foot on the ground.
5. Do not use a grass bagger or other rear mounted accessories on steep slopes (greater than 10°).

SERVICE:

1. Use extra care when handling gasoline and other fuels. Fuels are flammable and the vapors are explosive.
   a. Use only an approved container.
   b. Never remove the gas cap or add fuel with the engine running. Allow the engine to cool for several minutes before refueling. Do not smoke.
   c. Never refuel the machine indoors.
   d. Never store the machine with fuel in the tank or fuel container inside where there is an open flame, such as a water heater.
2. Never start or run the engine inside an enclosed area.
3. Keep all nuts and bolts, especially the blade attachment nuts tight. Frequently check the blade(s) for wear or damage such as cracks and nicks. A blade that is bent or damaged must be immediately replaced with a factory replacement blade. For safety, replace the blade every two years. Keep the equipment in good condition.
4. Never tamper with the safety devices. Check their proper operation regularly.
5. To reduce fire hazards keep the machine free of grass, leaves or other debris build-up. Clean up oil or fuel spillage. Allow the machine to cool before storing.
6. Stop and inspect the equipment if you strike an object. Repair, if necessary, before re-starting.
7. Never make adjustments or repairs with the engine running. The carburetor can be adjusted with the engine running. Do not change the engine governor settings or overspeed the engine.
8. Grass bagger components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. For storage, always make sure the grass bag is empty. Frequently check components and replace with manufacturer’s recommended parts when necessary.
9. Mower blade(s) are sharp and can cut. Wrap the blade(s) or wear gloves and use extra caution when servicing them or the blade housing area.
10. Check the brake operation frequently. Adjust and service as required.
11. Wait for all movement to stop before servicing any part of the unit.

Look for this symbol to indicate important safety precautions. This symbol indicates: “Attention! Become Alert! Your Safety Is At Risk.”
Congratulations on your purchase of a Sears Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

If you experience any problem you cannot easily remedy, please see your nearest Sears Service Department. We have competent, well-trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your unit properly. Always observe the "Safety Rules".

CUSTOMER RESPONSIBILITIES

- Carefully read and follow the rules for safe operation. Inspect the unit.
- Follow all the assembly instructions. Correctly adjust the unit.
- Know how to operate all standard and accessory equipment on the unit. Make sure that the operator can correctly operate the unit.
- Operate the unit only with guards, shields, and other safety items in place and working correctly.
- Complete all maintenance on the unit. Service the unit only with authorized or approved replacement parts.

NOTE: This unit is equipped with an internal combustion engine and must not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it must be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. See an Authorized Service Center for a spark arrester for the muffler.

MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this unit. See the nearest Sears Store for information.

PRODUCT SPECIFICATIONS

- Briggs & Stratton Engine: 12 HP.
- Charging System: 3 amperes at 3600 rpm.
- Fuel Tank Size: 1 gallon
- Type Of Fuel: Unleaded Regular
- Oil Capacity: 3 pints
- Oil Type: Above 32° SAE 30 or 10W30
- Spark Plug (Gap 0.030") Champion J19LM Sears 71-33312
- Tire Air Pressure: Front and Rear 12 psi
- All Gear Transaxle: Six forward speeds and one reverse.
- Ground Speed: Forward 0-5.4 MPH.
- Tilt Seat: The seat tilts forward for easy access to the battery.
- Mower Housing: The full-floating suspension and twin blades give an even cut. The lift lever has six height positions from 2 to 4 inches.
- Blade Nut Torque: 30 foot pounds
- Grass Bagger Size: 4 bushels

LIMITED TWO YEAR WARRANTY

ON ELECTRIC START RIDING EQUIPMENT AND GRASS BAGGER ATTACHMENT

For two years from the date of purchase, when this riding equipment and grass bagger attachment are maintained, lubricated, and tuned up according to the operating and maintenance instructions in the Owner's Manual, Sears will repair free of charge any defect in material or workmanship in this electric start riding equipment and grass bagger attachment.

This warranty excludes blade(s), blade adapter(s), spark plug(s), air cleaner, and belt(s), which are expendable and become worn during normal use.

This warranty does not cover:
- tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass); and
- repairs necessary because of operator abuse or negligence, including the failure to maintain the equipment according to instructions contained in the Owner's Manual; and
- riding equipment and grass bagger attachment used for commercial or rental purposes.

FULL 90-DAY WARRANTY ON BATTERY

For 90 days from the date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge.

WARRANTY SERVICE IS AVAILABLE BY CONTACTING THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES. This warranty applies only while this product is in use in the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., D/731CR-W, Sears Tower, Chicago, IL 60684
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5
**TRACTOR ATTACHMENTS**

**Attachments That Add to the Usefulness of Your Craftsman Lawn Tractor**

Sears offers a wide variety of attachments that fit your lawn tractor. Many of these are listed below with brief explanations of how they can help you. This list was current at the time of publication; however, it may change in future years — more attachments may be added, changes may be made in these attachments, or some may no longer be available.

Most of these attachments do not require additional hitches or conversion kits (those that do are indicated) and are designed for easy attaching and detaching. You may order these attachments at most Sears retail stores, catalog sales offices and thru the catalog.

**PERMANEX BARGER** lets you collect grass clippings and leaves for a healthier, neater-looking lawn. Two Permanex containers hold 33-gallon plastic bags.

**LAWN SWEEPERS** let you collect grass clippings and leaves. Select from these:

- 30-in. Path with a capacity of 9.0 cu. ft.
- 32-in. Path with a capacity of 10.0 cu. ft.
- 32-in. High Performance Path with a capacity of 10.0 cu. ft.
- 38-in. High Performance Path with a capacity of 12.5 cu. ft.

**LAWN VAC** for powerful collection of heavy grass clippings and leaves. Accepts optional wand attachment to pick up debris in hard-to-reach places. Has a 3hp. engine with 12 bushel capacity. Requires a Chute Adapter.

**CARTS** make hauling easy. Choose from these:

- 4 cubic foot Dump Cart with a capacity of 400 lb.
- 10 cubic foot Hauling Cart with a capacity of 1,000 lb.
- 10 cubic foot Dump Cart with a capacity of 1,000 lb.
- 17 cubic foot Dump Cart with a capacity of 1,500 lb.

**ROLLER** for smoother lawn surface. 36-inch wide, 18-inch diameter water-tight drum holds up to 390 lb. of weight. Rounded edges prevent harm to turf. Adjustable scraper automatically cleans drum.

**SPREADER/SEEDERS** make seedling, fertilizing, and weed killing easy. Broadcast spreaders also useful for granular de-icers and sand.

- Drop type, 36-inch. 100 lb. capacity steel hopper.
- Broadcasts 10 to 12 foot swath. 160 lb. capacity (covers 40,000 sq. ft.) No-rust polypropylene hopper and impeller. Vinyl hopper cover.
- Broadcasts 10 to 12 foot swath. 100 lb. capacity. No-rust polypropylene hopper and impeller. Vinyl hopper cover.

**AERATOR** promotes deep root growth for a healthy lawn. Tapered 2.5-inch steel spikes mounted on 10-inch diameter discs puncture holes in soil at close intervals to let moisture soak in. Steel weight box for increased penetration.

**CORING AERATOR** takes small plugs out of soil to allow moisture and nutrients to reach grass roots. 36-inch swath. 24 hardened steel coring tips. 150 lb. capacity weight tray.

**DETHATCHER** loosens and flips thatch and matted leaves to lawn surface for easy pick up. Twenty spring steel tines (10 pairs) dethatch 40-inch swath. Useful to prepare bare areas for reseeding and for seed bed preparation after tilling. Rear mount.

**DETHATCHER** loosens and lifts thatch to lawn surface for easy pick up (with bagger, sweeper or vac). Ten spring steel tines, each with two "teeth", dethatch 38-inch path. Front mount.

**TRACTOR COVER** protects tractor from weather. Made of Evolution 3 fabric (water repellent, extremely breathable, lightweight, soft, non abrasive, pliable over a wide temperature range, durable, stain-tear-and puncture-resistant, will not shrink or stretch).

**SEAT COVER** is dense polyester shag, machine washable. Provides cooler, more comfortable ride in the summer heat. Protects seat for longer life.

**SPRAYERS** uses 12-volt DC electric motor that connects to tractor battery or other 12 volt source. Includes booms for automatic spraying when pulling, and hand held wand for spot spraying. Wand has adjustable spray pattern. For applying herbicides, insecticides, fungicides, and liquid fertilizers.

- 50 psi maximum pressure with 12 foot wand length
- 25 psi maximum pressure with 10 foot wand length

**SNOW BLADE** for snow removal only. 14-inch high. 42-inch wide blade clears 38-inch path when angled left or right. Raises, lowers with side lever. Adjustable skids; replaceable, reversible scraper bar. (Use with tire chains, wheel weights.)

**SNOW THROWER** has 40-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with simple pin arrangement. Discharge chute adjusts to 210° arc from tractor seat. 6-inch diameter spout discharges snow 10 to 50 feet. Lift controlled at tractor seat. (Use with tire chains, rear wheel weights.)

**CART-N-VAC** Large 12 bushel capacity. Converts to 4 cu. ft. hauling cart. Load capacity 250 lbs.

**TIRE CHAINS** are heavy duty; closely-spaced extra-large cross links give smooth ride, outstanding traction.

**WHEEL WEIGHTS** for rear wheels provide needed traction for snow removal. In pairs. (30 lbs. ea.)

**NOTE:** Do not use pull-behind attachments on slopes that are greater than 10 degrees.

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ASSEMBLY

PREPARATION

Before being put in the carton, the unit was carefully inspected. The carton was made to protect the unit during shipment. The unit is completely assembled except for the items shown on this page. These items are in the carton with a parts bag which contains the fasteners to assemble the unit. Find and remove these items. The fasteners are shown on the next page.

HOW TO REMOVE FROM THE CARTON

To remove the unit from the carton, follow the instructions below.
1. Open the top of the carton.
2. Remove the wood frame at the top of the carton.
3. Remove the boxes labeled (A) and (B) from the carton. Remove the seat. NOTE: the seat is covered with a protective sleeve. Remove the Grass Bagger Cover, the outer tube, the connector tube and the protective pad.
4. The items shown at the right are in a small unmarked box. Remove and check each item. Remove the small box.
5. Cut each corner of the carton from the top to the bottom with a knife.
NOTE: See the Operation section for the location of the controls.
6. Move the shift lever to the NEUTRAL position.
7. Move the lift lever to the HIGH position.
CAUTION: Check the bottom of the carton for staples. Remove any staples that are in the path of the tires.
8. From the back of the unit, carefully pull the unit backwards off the wood frame.

TOOLS YOU NEED TO ASSEMBLE THE UNIT
1. Adjustable wrench (2 required)
2. Phillips screwdriver
3. Open end wrench 1/2" - 9/16"
4. Blade type screwdriver
5. Low Tire pressure gauge
6. Knife
7. Battery & Caps
8. Socket Set (Optional)

PARTS BAG - contents for Lawn Tractor

The fasteners and other loose parts are shown below. The fasteners are shown at full size with the quantities in brackets [ ].

(2) Locknut For Battery Terminals 1/4"-20 15x66
(1) Flange Hex Nut For Steering Wheel 5/16"-24 15x90
(2) Lockwasher For Seat 1.D. 5/16" 18x16
(Not shown full size) (4) Hub Cap 24582
(2) Ignition Key 91275
(1) Battery Clip 91941
(2) Hex Bolt For Battery Terminals 1/4"-20x5/8" 1x38
(2) Hex Bolt For Seat 5/16"-18x5/8" 1x45
(1) Hex Bolt For Steering Wheel 5/16"-24x13/8" 1x66
(1) Screw For Battery Clip 26x184
ASSEMBLY

HOW TO PREPARE AND CHARGE THE BATTERY

NOTE: Before you install the battery, add the battery acid (Electrolyte) and charge the battery. Battery acid will damage paint and parts.

WARNING: Read the instructions included with the battery acid container. Protect your hands and eyes from the battery acid. Use clothing that will protect you.

1. If the vent caps are not installed on the battery, remove the vent caps from the plastic bag. Read the instructions included with the vent caps. Your unit will have one or the other types of batteries as shown.
2. If metal tape covers the vents, remove the metal tape from the vents. Discard the metal tape.
3. Pour battery acid into each battery cell until the battery acid touches the bottom of the vent as shown. Do not add the battery acid above the bottom of the vent. If you add too much battery acid, the excessive battery acid will flow from the battery when you charge the battery.
4. Wait 20 to 30 minutes before you put the vent caps on the battery. While you wait for the battery, you can continue with the assembly of the unit.
5. The level of the battery acid can drop below the vent described in step 3. Add more battery acid until the correct battery acid level is reached. Install the vent caps. Wash the top of the battery with water to remove any battery acid.
6. Discard the battery acid container and any battery acid that was not used as follows. Fill the container half full with water. Add baking soda and mix together using a piece of wood. Add more baking soda until the solution does not foam. Discard the solution and wash the container with water. Destroy the container.

WARNING: When you charge the battery, do not smoke. Keep the battery away from any sparks. The fumes from the battery acid can cause an explosion.

7. Use a 12 volt battery charger to charge the battery. Charge at a rate of 6 amperes for 1 hour.
8. After the battery is charged, check the level of the battery acid. If the level of the battery acid falls, add water. Do not add battery acid to a charged battery or the result can be an explosion.
9. The engine has a 3 amperes charging system. If you frequently start the engine or frequently use the headlight (if equipped), the battery will not stay fully charged. For longer life of the battery, charge the battery every three months.

DANGER
BATTERY ACID WILL CAUSE Severe Burns

Contains sulphuric acid.
Do not let the battery acid come in contact with the skin, the eyes, or the clothing.

To prevent accidents, neutralize the battery acid that was not used. To neutralize, fill the container half full with water. Add baking soda and mix using a piece of wood until the solution does not foam. Discard the solution and wash the container with water. Destroy the container.

ANTIDOTE:
External - Wash the area with water, then wash with a solution of water and sodium bicarbonate.
Internal - Drink large amounts of water, milk, or milk of magnesia. Drink water mixed with the whites of eggs. Call a Doctor immediately.
Eyes - Flush with water for 15 minutes and then get immediate medical help.

POISON
- KEEP AWAY FROM CHILDREN -
HOW TO ASSEMBLE THE STEERING WHEEL

Use the fasteners shown below to install the steering wheel. The fasteners are shown at full size.

1. Make sure the front wheels point forward. Slide the bellows over the steering post. Make sure the collar of the bellows is on top. Push on the top of the bellows.
2. Attach the steering wheel to the steering post with the fasteners as shown. Tighten the fasteners.

HOW TO INSTALL THE SEAT

Use the fasteners shown below to install the seat. The fasteners are shown at full size.

1. Carefully remove the protective sleeve and the plastic bag from the seat. Do not damage the wire attached to the bottom of the seat.
2. Align the holes in the seat hinge to the holes in the seat. Fasten the seat to the seat hinge with the fasteners as shown. Tighten the fasteners.
3. Check the operating position of the seat. If the seat needs to be adjusted, loosen the seat adjusting nuts on the seat hinge. Slide the seat forward or backward along the adjusting holes as shown. To keep the seat straight, align the rear edge of the seat hinge with the marks on the top of the console. Tighten the hex nuts.
4. Connect the wire from the seat switch sensor to the wire harness. Make sure the tab part of the connector, from the seat switch sensor, locks into the latch of the wire harness connector.

WARNING: For correct and safe operation of the unit, connect the wire from the seat switch sensor to the wire harness.
ASSEMBLY

HOW TO ATTACH THE HUB CAPS

Push each hub cap onto the center hub of each wheel. Make sure the washer holds the hub cap in place.

CHECK THE TIRES

Check the air pressure in the tires. Tires with too much air pressure will cause the unit to ride rough. Also, the wrong air pressure will keep the mower housing from cutting level. The correct air pressure (PSI) is 12 PSI (0.85 kg/cm²).

CHECK THE BELTS

Check the routing of the belts. Make sure the belts are not twisted. Make sure the belts are inside all the belt guides.

CHECK THE DRIVE BRAKE

The drive brake can be easily checked as follows. Set the parking brake. Move the shift lever to the neutral (N) position. Push the unit. If the rear wheels rotate, adjust the drive brake. See "How To Check And Adjust The Drive Brake".

CHECK THE LEVEL OF THE MOWER HOUSING

The lever of cut was set at the factory. After the unit is fully assemble, completely read the Operation Section. Make sure the level of cut is set at the height you like for your lawn. Check the operation of the mower housing. Mow a short distance and look at the area that was cut. If the mower housing does not cut level, see the instructions on "How To Level The Mower Housing".

HOW TO CHECK THE ALIGNMENT OF THE SHIFT GATE

Follow the instructions in the Operation Section on "How To Use The Shift Lever". If it is difficult to change gears, first check the instructions, "How To Check And Adjust The Clutch". Then, adjust the shift gate. See the Instructions, "How To Check And Adjust The Shift Gate".
IMPORTANT: Remove and identify the contents of each box as shown below:

CONTENTS OF BOX A

- Containers
- Frame Mount Bracket
- Weight Bracket
- Hinge

CONTENTS OF BOX B

- Window (In paper bag)
- Parts Bag
- Extension Tube and Plate Assembly
- (2) Plastic Bags (Not shown)
- Elbow
- Center Tube
- Channel
The fasteners and other loose parts are shown below. The fasteners are shown full size with the quantities in brackets ( ).

NOTE: Some of the fasteners will not be required for your model.
HOW TO ASSEMBLE THE FRONT WEIGHT

Assemble the front weight support with the fasteners shown full size below.

1. Assemble the four carriage bolts (A) and four jam nuts (B) to the tractor as shown. Make sure jam nuts (B) are tight.
2. Fit the front weight into the weight support with the hole for the plug on top as shown.
3. Set the weight and weight support in position on the carriage bolts you assembled in Step 1. Fasten the weight support with the four locknuts (C) as shown. Make sure locknuts (C) are tight.
4. Fill the front weight with sand. Install the plug in the front weight.

WARNING: Use the front weight when you mow on a slope or where the lawn is rough or not even.

WARNING: Do not ride up or down slopes that are too steep to back straight up. Never ride the unit across a slope. See the "Slope Guide" in the back of this book for information on how to check slopes.
HOW TO MOUNT THE FRAME ASSEMBLY

1. Remove and discard the two self-tapping screws from the rear of the frame. Use these two holes to mount the frame bracket.

2. Attach the bottom of the frame bracket to the frame with hex bolt (A) and locknut (B). Do not tighten at this time.

3. Attach the back of the frame bracket to the frame with bolts (C), washers (D) and flange nuts (E). Make sure bolts (C) and flange nuts (E) are tight.
   
   NOTE: For easier assembly, use a ratchet and socket to tighten bolts (C).

4. Tighten bolt (A) and locknut (B).

5. Slide the channel in to the "U" shape opening in the top of the frame bracket as shown.
6. From the right side of the unit, install the channel pin through the channel as shown. Rotate the channel pin to lock the channel in place.

7. Mount the outer tube to the channel as shown. Make sure the holes on one end of the outer tube are on the right side of the unit. Use the fasteners shown full size below. Make sure the fasteners are tight. **CAUTION:** If the fasteners are tightened too much, the outer tube can be damaged.

8. Mount the center tube to the channel as shown. Make sure the fasteners are tight. **CAUTION:** If the fasteners are tightened too much, the center tube can be damaged.

9. Attach the caps to the end of the tubes as shown.
HOW TO MOUNT THE COVER

1. Assemble the hinge to the cover with the fasteners shown full size below. Push the hinge toward the top of the cover. Make sure the screws are at the bottom of the holes in the hinge. Tighten the fasteners.

2. Attach the handle to the cover with the fasteners as shown. Tighten the fasteners.

3. Push expansion nut (F) into the slot in the cover as shown. Mount the window to the cover with the fasteners as shown. Make sure the cover fits between the plastic flange and the cover, at the end of the window. Push on each side of the window until the two plastic tabs are locked in position. Fasten with screw (E) as shown. Put the window clip in position on the inside of the window. Align the hole in the window clip with the hole in the cover. Fasten the window clip with screw (C) and nut (D) as shown.

4. Set the cover in the operating position on the top of the outer tube assembly as shown. Align the holes in the hinge and the channel. Fasten the cover and hinge assembly to the channel with a hinge pin and hair pin shown full size below.
HOW TO MOUNT THE EXTENSION TUBE

1. Assemble latch pin (A) to the extension tube with the fasteners shown below.

```
<table>
<thead>
<tr>
<th>Fastener</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>54563</td>
<td>1</td>
<td>Latch Pin</td>
</tr>
<tr>
<td>15x89</td>
<td>1</td>
<td>Bolt (B)</td>
</tr>
<tr>
<td>2x39</td>
<td>1</td>
<td>Wing Nut (C)</td>
</tr>
</tbody>
</table>
```

2. Move the lift lever to the highest cut position.
3. Disconnect the wire to the spark plug. Raise the deflector. Rotate the blade away from the discharge opening. Remove the carriage bolt and locknut from the mower housing as shown.

**WARNING:** The blade has sharp edges. Always be careful of the position of the blade.

4. Slide the extension tube under the deflector bracket as shown. Fasten the extension tube to the front of the mower housing with the bolt (D) and wing nut (E) as shown. Make sure the wing nut is tight.

5. If not assembled to the extension tube, put the bracket in position at the back of the extension tube. Fasten the extension tube and the bracket with bolt (D) and wing nut (E) as shown. Make sure the wing nut is tight.
HOW TO MOUNT THE CONNECTOR TUBE

Mount the connector tube with the fasteners shown full size below.

1. Assemble the handle and the rubber latch to the connector tube with the fasteners as shown. Hold the screws with a screwdriver and tighten the locknuts.
2. Align the hole in the connector tube with the hole in the elbow as shown.
3. Fasten the elbow to the connector tube with the self-tapping screw as shown. Tighten the screw until the head of the screw touches the elbow.
4. Move the lift lever to the lowest cut position.
5. Hold the handle on the connector tube. Put the end of the elbow in the hole of cover as shown.
NOTE: To help the elbow slide when you open or close the cover, put wax or polish on the elbow.
6. Rotate the elbow and connector tube assembly until the rubber latch is aligned with the latch pin.
7. Slide the bottom end of the connector tube over the extension tube. Lock in place with the rubber latch.
HOW TO ASSEMBLE THE CONTAINERS

NOTE: There is only one way that these containers can be put together. Carefully read and follow the instructions below.

1. Separate the six container pieces into two groups. You will have 2 tops, 2 middle and 2 bottoms pieces as shown.
2. Look for a number on one side of each top piece. The numbers for the two top pieces are 1 and 3. Set the two top pieces on the ground with the flange part up as shown.
3. Look for two numbers on one side of each middle piece. One middle piece has the numbers 1 and 2. The other middle piece has the numbers 3 and 4. Match the middle piece with the numbers 1 and 2 with top piece 1. Set the middle piece inside the matching top piece as shown.
4. Match the middle piece with numbers 3 and 4 with top piece 3 as shown. Set the middle piece inside the matching top piece as shown.
5. Look for a number on one side of each bottom piece. The numbers for the two bottom pieces are 2 and 4.
6. Match bottom piece 2 with the top piece 1 and middle piece that has the numbers 1 and 2. Set the matching bottom piece inside the middle piece as shown.
7. Match bottom piece 4 with the top piece 3 and middle piece that has the numbers 3 and 4. Set the matching bottom piece inside the middle piece as shown.
8. Put one foot inside the three pieces and lift the top piece until the three pieces connect together. Make sure all four corners of each piece are locked together.
9. Fasten the top and middle pieces of each container together using four fasteners for each container. Push each fastener into the hole in each side of the container from the inside as shown.
HOW TO ATTACH THE CONTAINERS

1. Tilt the seat forward. Hold the handle on the back of the cover. Pull back on the handle and lift to raise the cover.
2. Two plastic bag linings, not shown in the illustration, are included with the grass bagger. The plastic bag linings are optional accessories that can be used for easy removal of the grass.
3. Put the plastic bag linings in to the containers
4. Slide the containers on to the frame tubes as shown. Make sure the “CAUTION” is to the rear as shown
5. Lower the cover. Pull back on the handle and push the cover down until it locks into place

IMPORTANT: For the grass bagger to work correctly, the cover must be in the down position.

FINAL ASSEMBLY

1. The grass bagger has two containers. For easy removal of the grass, use a plastic lining inside the container. Use one of the following sizes:
   - 33 gallons
   - 4 bushels
   - 145 litres
2. Check the fasteners. Make sure that all bolts and nuts are tight.

HOW TO INSTALL THE BATTERY

Use the fasteners shown below to install the battery. The fasteners are shown at full size.

1. Tilt the seat forward. Install the battery tray. Make sure the drain on the bottom of the battery tray goes through the hole in the frame as shown.
2. Set the battery in the battery tray. Make sure the battery terminals are toward the front of the unit.
   NOTE: Make sure the battery fits under the tabs at the back of the unit.
3. Fasten the battery clip in the slot in the frame. Attach the battery clip with the fastener as shown.

WARNING: To prevent sparks, fasten the red cable to the positive (+) terminal before you connect the black cable.

4. Fasten the red cable to the positive (+) terminal with the fasteners as shown.
5. Fasten the black cable to the negative (−) terminal with the fasteners as shown.
KNOW THE PRODUCT

Before you operate the unit, read this instruction book. If you understand the unit and how the unit operates, you will get the best performance. When you read this instruction book, compare the illustrations to the unit. Learn the location of the controls. To help prevent an accident, follow the operating instructions and the safety rules. Keep this instruction book for future reference.

MEETS CPSC SAFETY REQUIREMENTS

Sears Mowers conform to the safety standards of the American National Standards Institute, and the U.S. Consumer Product Safety Commission.

**BLADE ENGAGEMENT CONTROL LEVER:** Use the control lever to start and stop the rotation of the blade.

**CLUTCH/BRAKE PEDAL:** The pedal has two functions. The first function is a clutch. The second function is a brake.

**IGNITION/LIGHT SWITCH:** The switch has two functions. The first function is for starting the engine. The second function is to turn on the headlight.

**PARKING BRAKE:** Use the parking brake to engage the brake when you leave the unit.

**LIFT LEVER:** Use the lift lever to change the height of the attachment.

**SHIFT LEVER:** Use the shift lever to change the speed of the unit.

**THROTTLE CONTROL LEVER:** Use the throttle control to increase or decrease the speed of the engine.
OPERATION

The operation of any lawn mower can result in foreign objects thrown in the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before starting your lawn mower and while mowing. We recommend the Wide Vision Safety Mask for over the spectacles or standard safety glasses, available at Sears Retail or Catalog Stores.

HOW TO USE THE MOWER

HOW TO SET THE PARKING BRAKE

1. Completely push the clutch/brake pedal forward.
2. Lift the parking brake lever.
3. Remove your foot from the clutch/brake pedal and then release the parking brake lever. Make sure the parking brake will hold the unit.
4. To release the parking brake, completely push the clutch/brake pedal forward. The parking brake will automatically release.

WARNING: Before you leave the operator's position, move the shift lever to the neutral (N) position. Set the parking brake. Move the blade engagement control to the DISENGAGE position. Stop the engine and remove the ignition key.

HOW TO STOP THE UNIT

1. Push the clutch/brake pedal completely forward to stop the unit. Keep your foot on the pedal.
2. Move the blade engagement control to the DISENGAGE position.
3. Move the shift lever to the NEUTRAL position.
4. Set the parking brake.
5. Move the throttle control to the SLOW position.
6. To stop the engine, turn the ignition key to the OFF position. Remove the key.

HOW TO USE THE SHIFT LEVER

HOW TO CHANGE DIRECTIONS

To change the direction of the unit, follow the steps below:
1. Completely push the clutch/brake pedal forward.

WARNING: Before you change directions of travel, fully depress the clutch/brake pedal.

2. Pull the shift lever toward the seat until the lever disengages from the shift gate. Move the shift lever to FIRST or REVERSE. Make sure the shift lever engages into the shift gate.
3. Slowly release the clutch/brake pedal. Do not ride with your foot on the clutch/brake pedal.

HOW TO USE THE SHIFT-ON-THE-GO

1. While the unit moves forward, you can select any forward speed. Just move the shift lever to the next faster or next slower speed. You do not have to use the clutch/brake pedal.
2. The shift lever positions for operation of your unit are shown in the chart.

NOTE: Belt noise can occur when the clutch is engaged. This noise is normal and does not affect the operation of the unit.
**OPERATION**

**HOW TO USE THE THROTTLE CONTROL**
Use the throttle control to increase or decrease the speed of the engine.
1. To start a cold engine, move the lever to the START or CHOKE position.
2. The FAST position is marked with a detent. For normal operations and when using a grass bagger, move the lever to the FAST position. For maximum charging of the battery and also for a cooler running engine, operate the engine in the FAST position.
3. For transport and to tow pull behind attachments, move the throttle control to the needed speed.
4. The engine governor is set at the factory for maximum speed of the engine.

**HOW TO CHANGE THE CUTTING HEIGHT**
To change the cutting height, raise or lower the lift lever. Push the button on top of the lever to release the lever. Move the lever forward to lower the mower housing and back to raise the mower housing. The cutting height can be set from 2 to 4 inches. When you ride on a sidewalk or a road, move the lift lever to the highest position and move the blade engagement control to the DISENGAGE position.

**HOW TO USE THE BLADE ENGAGEMENT CONTROL**
See the location of the blade engagement control in the illustration. Use the blade engagement control to start and stop the rotation of the blade.
1. Before you start the engine, make sure the control lever is in the DISENGAGE position.
2. Move the control lever to the ENGAGE position to rotate the blade.
   \* Note: If the engine stops when you engage the blade(s), the seat switch is not activated. Make sure you sit in the middle of the seat. Also, make sure the wire is connected to the seat switch.
3. Move the control lever to the DISENGAGE position to stop the rotary blade. Before you leave the operator’s position, make sure the blade has stopped rotating.
4. Before you ride the unit on a sidewalk or a road, move the control lever to the DISENGAGE position.

**HOW TO TRANSPORT THE UNIT**
To transport the unit, follow the steps below.
1. Move the blade engagement control to the DISENGAGE position.
2. Raise the lift lever to the HI position.
3. Move the throttle control to a position between SLOW and FAST.
4. To go faster, move the shift lever to a faster speed.

**HOW TO OPERATE WITH THE MOWER HOUSING**

**WARNING:** The deflector is a safety device. Do not remove the deflector. The deflector forces the discharged material toward the ground. Always keep the deflector in the down position. If the deflector is damaged, replace it with a factory replacement part.

1. Start the engine.
2. Move the lift lever to a height of cut position. In high or thick grass, cut the grass in the high position first and then lower the mower housing to a lower position.
3. Move the throttle control to the SLOW position.
4. Move the blade engagement control to the ENGAGE position.
5. Push the clutch/brake pedal completely forward.
6. Move the shift lever to one of the speed settings.
   \* Note: When you mow in heavy grass or mow with a bagger, put the shift lever in the slowest speed.
7. Slowly release the clutch/brake pedal.
8. Move the throttle control to the FAST position. If you need to go faster or slower, move the shift lever to another speed setting.
9. Make sure the level of cut, set at the factory, is still correct.

**HOW TO OPERATE THE UNIT ON HILLS**

**WARNING:** Do not ride up or down slopes that are too steep to back straight up. Never ride the unit across a slope. See the "Slope Guide" in the back of this book for information on how to check slopes.

1. Before you ride up or down a hill, move the shift lever to the slowest speed.
2. Do not stop or change speed settings on a hill. If you must stop, quickly push the clutch/brake pedal forward and set the parking brake.
3. To start again, make sure the shift lever is the slowest speed.
4. Move the throttle control to the SLOW position. Slowly release the pedal.
5. If you must stop or start on a hill, always have enough space for the unit to roll when you release the brake and engage the clutch.
6. Be very careful when you change directions on a hill. When on a slope or in a turn on a hill, move the throttle control to the SLOW position to help prevent an accident.
HOW TO USE THE GRASS BAGGER

WARNING: Do not ride up or down slopes that are too steep to back straight up. Never ride the unit across a slope. See the "Slope Guide" in the back of this book for information on how to check slopes.

To operate the unit with the grass bagger, follow the steps below.

1. Put the throttle control in FAST position.
2. Put the shift lever in FIRST (1) position.
3. If the height of the grass is more than 3-1/2 inches (9 cm), move the mower housing to the highest position and cut the grass. Lower the mower housing and cut the grass again. You also can mow high thick grass at 1/2 to 2/3 of the full cutting width of the mower housing.

IMPORTANT: Do not cut wet grass. Wet grass will not discharge correctly into the bagger.

4. Look at the window(s) in the cover. When the containers are full, grass will begin to fill the cover which can be seen through the window(s). As soon as grass can be seen, empty the containers as follows.
5. Move the blade control lever to the DISENGAGE position.
6. Put the shift lever in NEUTRAL (N) position.
7. Engage the parking brake.
8. Stop the engine.
9. Raise the cover. Pull the handle back and lift the cover.
10. Remove the containers from the frame.

WARNING: Check the condition of the grass bagger and the connector tube for wear or deterioration. If worn or damaged, replace the parts only with approved factory replacement parts. For replacement parts, see the parts list in this book.

The connector tube is made of clear plastic. If the connector tube becomes filled with grass, remove and clean the connector tube and the extension tube. Before you remove the connector tube, stop the unit as follows.

1. Put the blade control lever in the DISENGAGE position.
2. Put the shift lever in neutral position.
3. Engage the parking brake.
4. Stop the engine.
BEFORE STARTING THE ENGINE

CHECK OIL - Add as needed

NOTE: Do not check the level of the oil while the engine runs.

1. Make sure the unit is level.
2. Clean the area around the dipstick. Remove the dipstick. Wipe the oil from the dipstick.
3. Insert the dipstick into the oil fill tube. Turn the dipstick clockwise until it is tight. Remove the dipstick. Check the oil level on the dipstick. The oil level must reach the FULL mark on the dipstick.
4. If necessary, add oil until the oil reaches the FULL mark on the dipstick. The quantity of oil needed from ADD to FULL is shown on the dipstick. Do not add too much oil.

ADD GASOLINE

Fill the fuel tank with regular unleaded gasoline. Make sure the gasoline is fresh and clean. Leaded gasoline will increase deposits and shorten the life of the valves. Do not use premium unleaded gasoline.

CAUTION: A mixture of alcohol (ethanol or methanol) and gasoline (called gasohol) will attract moisture and cause acid deposits during storage. While the unit is in storage, the acids in the fuel can damage the fuel system. To prevent engine problems with the fuel system, empty the fuel system before storage of 30 days or longer. Drain the fuel tank. Start the engine. Let the engine run until the fuel lines and the carburetor are empty. After storage, make sure you use fresh fuel. See the storage instructions for additional information. Never use engine cleaner or carburetor cleaner in the fuel tank or permanent damage can occur.

WARNING: Always use a safety gasoline container. Do not smoke when adding gasoline to the fuel tank. Do not add gasoline when you are inside an enclosure. Before you add gasoline, stop the engine and let the engine cool for several minutes.

CARBURETOR

The factory settings for the carburetor are for most conditions. If the engine is operated under the following conditions, you can adjust the carburetor mixture. See "How To Adjust The Carburetor" in the maintenance section.

1. The engine has a loss of power or does not run smooth.
2. A change from summer to winter operation.
3. A 40° change in the operation temperature. The carburetor was adjusted at 80° at the factory.
4. The engine is operated above 4,000 feet.

HOW TO START THE ENGINE

WARNING: The electrical system has an operator presence system that includes a sensor switch mounted in the seat. These components tell the electrical system if the operator is sitting on the seat. For your protection, always make sure this system operates correctly. This system will stop the engine when the operator leaves the seat if the blade engagement control is engaged.

NOTE: The engine will not start unless you depress the clutch/brake pedal, move the shift lever to the NEUTRAL position, and move the blade engagement control to the DISENGAGED position.

1. Sit in the middle of the seat. Completely push the clutch/brake pedal forward. Keep your foot on the pedal.
2. Move the shift lever to the NEUTRAL (N) position.
3. Move the blade engagement control to the DISENGAGE position.
4. Move the throttle control to the CHOKE position.
5. Turn the ignition key to the START position. Release the key when the engine starts.

NOTE: If the engine does not start after four or five tries, move the throttle control to the FAST position. Again try to start the engine. If the engine will not start, see the TROUBLE SHOOTING CHART.

6. After the engine starts, move the throttle control from CHOKE to a needed speed.
7. Before you begin work, let a cold engine run for several minutes. To start a hot engine, move the throttle control to a position between FAST and SLOW.
OPERATION

OPERATING TIPS

1. Check the blade engagement control for correct adjustment. For the blade(s) to disengage correctly, the adjustment must be correct.
2. Before you use the unit, check the oil in the engine and add oil if necessary.
3. If the engine will not start, first make sure the wire is attached to the spark plug.
4. Make sure all the belts are inside all the belt guides. See the instructions on how to remove and install the motion drive and mower drive belts.
5. Before you make an inspection, adjustment (except for the carburetor) or repair, make sure the wire from the spark plug is disconnected.
6. Make sure the seat switch wire is connected. If the wire is not connected, the engine will not start.
7. For longer life of the battery, charge the battery every three months.
8. Use the shift lever to change the ground speed, not the throttle control.
9. Belt noise can occur when the blade or clutch is engaged. This noise is normal and does not affect the operation of the unit.

MOWING AND BAGGING TIPS

1. For a lawn to look better, check the cutting level of the mower housing. See "How To Level The Mower Housing" in the maintenance section.
2. For the mower housing to cut level, make sure the tires have the correct amount of air pressure (PSI).
3. Every time you use the unit, check the blade. If the blade is bent or damaged, immediately replace the blade. Also, make sure the nut for the blade is tight.
4. Keep the blade(s) sharpened. Worn blades will cause the ends of the grass to turn brown.
5. Do not cut or bag grass that is wet. Wet grass will not discharge correctly. Let the grass dry before cutting.
6. Use the left side of the mower housing to trim near an object.
7. Discharge the cut grass onto the mowed area. The result is a more even discharge of cut grass.
8. When you mow large areas, start by turning to the right so that the cut grass will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left turns until finished.
9. If the grass is very high, cut two times to decrease the load on the engine. First cut with the mower housing in the HIGH position and then lower the mower housing for the second cut.
10. For better engine performance and an even discharge of the cut grass, always operate the engine with the throttle in FAST position.
11. When you use a bagger, operate the engine with the throttle in FAST position and the shift lever in first or second gear.
12. For better cutting performance and a quality cut, mow with the shift lever in one of the slower speed gears.
13. After each use, clean the bottom and top of the mower housing for better performance. Also, a clean mower housing will help prevent a fire.
# Maintenance Schedule

## Procedure

<table>
<thead>
<tr>
<th>PROCEDURE</th>
<th>EACH USE</th>
<th>FIRST 2 HOURS</th>
<th>EVERY 25 HOURS</th>
<th>EVERY 50 HOURS</th>
<th>EVERY 100 HOURS</th>
<th>BEFORE STORAGE</th>
<th>STORAGE DATES</th>
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<tbody>
<tr>
<td>Blade, Inspect &amp; Sharpen</td>
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</table>

## Mower General Recommendations

1. It is the owner's responsibility to correctly maintain this product which extends the life of the product and to maintain warranty coverage.
2. Once a year you must check the spark plug, drive brake, lubricate the unit, and clean the air filter.
3. Check the fasteners and make sure they are tight.
4. Follow the Maintenance Section to keep your unit in good operating condition.

**WARNING:** Before you make an inspection, adjustment (except carburetor), or repair, disconnect the wire from the spark plug.

### Where to Lubricate

- Lubricate the areas shown with engine oil.
- Apply grease with a brush to the areas shown.

**NOTE:** Apply grease to the steering gear assembly.

**NOTE:** If the unit is operated in dry areas that have sand, use a dry graphite spray to lubricate the unit.

**CAUTION:** Do not lubricate the nylon bearings for the front wheels. Oil or grease will damage the bearings.
MAINTENANCE

INSPECT BLADE

WARNING: Before you inspect or remove the blade, disconnect the wire to the spark plug. If the blade hits an object, stop the engine. Check the unit for damage. The blade has sharp edges. When you hold the blade, use gloves or cloth material to protect your hands.

If you keep the blade sharp and inspect the blade for damage, the blade will cut better and be safer to operate. Frequently check the blade for excessive wear, cracks, or other damage. Frequently check the nut that holds the blade. Keep the nut tight. If the blade hits an object, stop the engine. Disconnect the wire to the spark plug. See if the blade is damaged. Check the blade adapter for damage. Before you operate the unit, replace damaged parts with a replacement part from the factory. Every three years, have an authorized service person inspect the blade or replace the old blade with a replacement blade from the factory.

HOW TO REMOVE AND INSTALL THE BLADE

1. Remove the mower housing. See the instructions on "How To Remove The Mower Housing".
2. Use a piece of wood to keep the blade from rotating.
3. Remove the nut that holds the blade.
4. Check the blade and the blade adapter according to the instructions for "Blade Service". Replace a badly worn or damaged blade with a replacement blade from the factory.
5. Clean the top and bottom of the mower housing. Remove all the grass and debris.
6. Mount the blade and blade adapter on the mandrel as shown.
7. Mount the blade so that the hi-lift edges are up as shown. If the blade is upside down, the blade will not cut correctly and can cause an accident.
8. Fasten the blade with the original washers and nut. Make sure the outside rim of the belleville washer is against the blade as shown.
9. Tighten the nut that holds the blade to a torque of 30 foot pounds (41.5N-m).
10. Connect the wire to the spark plug.

WARNING: Always keep the nut tight that holds the blade. A loose nut or blade can cause an accident.

HOW TO SHARPEN THE BLADE

WARNING: Vibration can be caused if the blade is not correctly balanced or if the blade is damaged. A blade that is damaged with cracks can break and cause an accident.

Keep a sharp edge on the blade. A blade that is not sharp will cause the tips of the grass to become brown.

1. Sharpen the blade two times a year or every 25 hours.
2. Remove the blade according to the instructions in "How To Remove And Install The Blade".
3. Clean the blade with a brush, soap and water. Check the blade. Look for cracks, nicks, or other damage. Replace a badly worn or damaged blade with a replacement blade from the factory.
4. Sharpen the blade with a file. Make sure you keep the original bevel angle.
5. Make sure the blade is balanced. Use a screwdriver and hold the blade parallel to the ground as shown. A blade that is balanced will stay parallel to the ground. If the blade is not balanced, the heavy end will rotate toward the ground. Sharpen the heavy end until the blade is balanced.
6. A new blade will cut better than a badly worn blade. Every three years, have an authorized service person inspect the blade or replace the old blade with a replacement blade from the factory.
7. Assemble the blade according to the instructions "How To Remove And Install The Blade".
MAINTENANCE

HOW TO CHECK AND ADJUST THE BLADE ENGAGEMENT CONTROL

WARNING: To prevent an injury, the blade engagement control must operate correctly.

1. Stop the engine. Disconnect the wire from the spark plug.
2. Before you adjust the blade engagement control lever, check and level the mower housing. See "How To Level The Mower Housing."
3. Set the height of the mower housing in the lowest position.
4. Move the blade engagement control to the ENGAGE position. Check the blade drive spring. The end of the plastic indicator must be aligned with the last coil of the blade drive spring (± 1/8 inch / 3 mm).
5. If the plastic indicator is more than 1/8 inch (3 mm) from the last spring coil, an adjustment is needed. Move the blade engagement control to the DISENGAGE position. Disconnect the blade control rod from the pivot bracket. Turn the adjustable nut clockwise to increase the length of the coils. Turn the adjustable nut counterclockwise to decrease the length of the coils.
6. Connect the blade control rod to the pivot bracket. Move the blade engagement control to the ENGAGE position. Check the adjustment of the blade drive spring.
7. Move the blade engagement control to the DISENGAGE position. Check the operation of the blade brake. Rotate the pulley with your hand. Make sure the blade brake pads press tightly against the pulleys.
8. Move the blade engagement control to the ENGAGE position. Check the blade brake pads. If the blade brake pads are excessively worn or damaged, replace the blade brake pad assemblies. Correct replacement parts and assistance are available from an authorized service center.
9. Attach the wire to the spark plug. Mow for a short distance and again check the operation of the blade engagement control.
10. When you move the blade engagement control to the DISENGAGE position, all movement will stop within five seconds if the adjustment is correct. If all movement does not stop, again adjust the blade engagement control beginning with the first step. If you need assistance, take the unit to an authorized service center.
11. If you replace the mower drive belt, adjust the blade engagement control lever.
HOW TO CHECK AND ADJUST THE DRIVE BRAKE

Completely push the clutch/brake pedal forward. Set the parking brake. Move the shift lever to the neutral (N) position. Push the unit. If the rear wheels rotate, adjust or replace the brake pads. Adjust the drive brake as follows:

1. The location of the brake is on the right side of the gearbox.
2. Make sure the parking brake is set and the shift lever is in neutral (N). Turn the hex nut in a clockwise direction until the rear wheels do not turn when the unit is pushed forward.
3. Release the parking brake and push the unit. If the unit does not roll, turn the hex nut in a counterclockwise direction until the unit rolls.
4. Set the parking brake. Push the unit. If the rear wheels do not turn, the brake is correctly adjusted. Release the parking brake.

**WARNING:** If you cannot correctly adjust the drive brake, replace the brake pads. Correct replacement parts and assistance are available from an authorized service center.

HOW TO CHECK AND ADJUST THE CLUTCH

If the unit will not move when the clutch is engaged or if the belt slips when going uphill or when pulling a load, the motion drive belt is loose. Check the clearance between the rear of the pedal and the back of the hole as shown. If there is more or less than the clearance shown in the illustration, adjust the pedal as follows:

1. Disconnect the adjustable nut from the lever assembly as shown.
2. Turn the adjustable nut clockwise to decrease the length of the clutch rod. This adjustment will decrease the clearance at the pedal.
3. Assemble the adjustable nut to the lever assembly. Check the clearance at the pedal.
4. After making an adjustment to the pedal, check the brake rod as described in the instructions on "How To Check And Adjust The Drive Brake." Also, check the adjustment of the shift lever. See the instructions on "How To Adjust The Shift Lever."
5. If the belt is loose after the clutch has been adjusted, then the belt has stretched and must be replaced. **NOTE:** Replace the motion drive belt with a factory replacement belt.
**MAINTENANCE**

**HOW TO ADJUST THE SHIFT LEVER**

**NOTE:** To help show the shift gate, the shift cover was removed in the illustration.

1. Move the shift lever to the NEUTRAL position. Carefully pull the shift cover away so that you can see the shift gate.
2. Carefully push the shift lever towards the seat until you feel the spring begin to extend. Measure the distance between the shift lever and the shift gate as shown. The distance must be approximately 1/8" to 3/16" (3mm to 5mm).
3. If the distance between the shift lever and the gate is incorrect, disconnect the adjustable nut at the shift lever as shown.
4. Check and adjust the clutch/brake pedal. See the instructions How To Check and Adjust The Clutch.
5. Turn the adjustable nut at the shift lever clockwise to decrease the distance between the shift lever and the gate or counterclockwise to increase the distance. Connect the adjustable nut to the shift lever.
6. Check the distance between the shift lever and the gate. See Step 2. If the distance is incorrect, repeat Steps 3 and 5.

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**HOW TO CHECK AND ADJUST THE SHIFT GATE**

If it is difficult to change gears, adjust the shift gate as follows:

1. Set the parking brake.
2. Loosen the two bolts at the shift gate as shown.
3. Move the shift lever to the REVERSE position.
4. Make sure the shift indicator is in the center of the reverse notch in the shift gate. Push on the top of the shift gate while you tighten the rear bolt.
5. Then, tighten the front bolt.
6. Move the shift lever to the NEUTRAL position. Release the parking brake. Push the unit to make sure the rear wheels will turn.
MAINTENANCE

BATTERY

To charge or clean the battery, remove the battery from the unit as follows.

WARNING: To prevent sparks, disconnect the black battery cable from the negative (--) terminal before you disconnect the red cable.

WARNING: The battery contains sulphuric acid which is harmful to the skin, eyes and clothing. If the acid gets on your body or clothing, wash with water immediately.

1. Remove the black cable from the negative (--) terminal.
2. Remove the red cable from the positive (+) terminal.
3. Remove the battery clamp from the battery.
4. Remove the battery from the unit.

HOW TO CHECK AND CHARGE THE BATTERY

WARNING: When you charge the battery, do not smoke. Keep the battery away from any sparks. The fumes from the battery acid can cause an explosion.

1. The battery will be damaged if the battery acid is not kept at the correct level. Check the level of the battery acid. The battery acid must touch the bottom of the vent. If the battery acid has fallen below the correct level, add water to the correct level. Do not add battery acid to a charged battery or the result can be an explosion.
2. The engine has a 3 amperes charging system. If you frequently start the engine or frequently use the headlight, the battery will not stay fully charged. For longer life of the battery, charge the battery every three months.
3. Before you charge the battery, remove the battery.
4. Use a 12 volt battery charger to charge the battery. Charge at a rate of 3 amperes for 2 to 3 hours. After the battery is charged, check the level of the battery acid. If the level of the battery acid falls, add water. Do not add battery acid to a charged battery or the result can be an explosion.
5. Install the battery. See "How To Install The Battery" in the assembly section.

HOW TO CLEAN THE BATTERY

1. Remove the battery from the unit.
2. Wash the battery with a solution of one gallon of water and four tablespoons of baking soda (sodium bicarbonate). Make sure the solution does not get into the battery cells.
3. Clean the terminals and the ends of the cables with a wire brush.
4. Install the battery. See "How To Install The Battery" in the assembly section.
5. To prevent corrosion, apply grease to the battery terminals.

CHECK THE TIRES

Check the air pressure in the tires. Tires with too much air pressure will cause the unit to ride rough. Also, the wrong air pressure will keep the mower housing from cutting level. The correct air pressure (PSI) is 12 PSI (0.85 kg/cm2).
MAINTENANCE

ENGINE

HOW TO CHECK THE OIL

NOTE: Do not check the level of the oil while the engine runs.

1. Make sure the unit is level.
2. Clean the area around the dipstick. Remove the dipstick. Wipe the oil from the dipstick.
3. Insert the dipstick into the oil fill tube. Turn the dipstick clockwise until it is tight. Remove the dipstick. Check the oil level on the dipstick. The oil level must reach the FULL mark on the dipstick.
4. If necessary, add oil until the oil reaches the FULL mark on the dipstick. The quantity of oil needed from ADD to FULL is shown on the dipstick. Do not add too much oil.

HOW TO CHANGE THE OIL

NOTE: Do not drain the oil from a cold engine. Before you drain the oil, let the engine run for several minutes. Make sure you do not get oil on the belts.

1. Remove the oil drain cap. Drain the oil completely from the engine. Install and tighten the oil drain cap.
2. Use a SD, SE or SF detergent grade oil. Detergent oil helps to clean the engine. Nothing must be added to the oil.
3. Before you change the oil, use the temperature chart below to select the viscosity grade of the oil to use.

Temperature range before the next oil change. Oil must be a SD, SE or SF grade oil.

Required SAE viscosity grades

![Temperature Chart]

CAUTION: To protect the starting system, use SAE 5W30 oil when the temperature is less than 32 °F.

4. Clean the area around the dipstick. Remove the dipstick. Slowly pour approximately 3 pints (1.4 liters) of oil into the oil extension tube
5. Insert the dipstick into the oil extension tube. Turn the dipstick in a clockwise direction until it is tight. Remove the dipstick. Check the oil level on the dipstick. The oil level must reach the FULL mark on the dipstick.

HOW TO CLEAN THE ENGINE COOLING SYSTEM

The engine on this unit is air cooled. The air that cools the engine enters through the air screen on top of the engine.

1. Remove any grass, dirt or debris from the air screen with a cloth or brush.
2. Inspect the edge of the engine shroud for grass or debris. Remove any grass or debris visible at the bottom edge of the engine shroud.

![Air Screen Diagram]

![Engine Shroud Diagram]
HOW TO CLEAN THE AIR FILTERS

Some engines have two filters, an outer foam filter around an inner paper filter. Clean the air filters every 50 hours. If you operate in dirty conditions, service more often.

NOTE: Never run the engine with the air filters removed. The air filters will help protect the engine against wear. For the correct replacement filter, see the parts list for the engine.

1. Remove the two wingnuts from the cover.
2. Remove the cover from the air cleaner.
3. Remove the two nuts from the filters.
4. Remove the filters.
5. Clean the inside of the base and the cover with a cloth.
6. Remove the foam filter, (if equipped), from the paper filter.
7. If equipped, wash the foam filter in a detergent and water solution. To remove the water solution, tightly roll the foam filter in a dry cloth. Remove the foam filter from the cloth. Completely dry the foam filter.

CAUTION: Do not wash the filters in gasoline or other solvents that will burn.

8. Evenly apply S.A.E. 30W oil to the dry foam filter
9. To clean the paper filter, lightly tap the paper filter against a hard flat surface.
10. If the paper filter is very dirty, replace the filter.
11. Assemble the air filters with the two nuts.
12. Install the cover. Fasten the cover with the two wingnuts.

HOW TO CHECK THE MUFFLER

Check the muffler every 50 hours. Make sure the muffler is correctly mounted and is not loose. If the muffler is worn or burnt, replace with a new muffler. A worn muffler is a fire hazard and also can damage the engine.

If you mount a spark arrestor to the muffler, also check the spark arrestor when you check the muffler. If the spark arrestor is worn or damaged, replace it with a new spark arrestor.

HOW TO CHECK THE SPARK PLUG

1. Check the gap of the spark plug with a feeler gauge. The correct gap is 0.030".
2. For easy starting and good performance, replace the spark plug every two years.

CHECK THE FUEL FILTER

NOTE: Before you replace the fuel filter or the fuel line, the fuel tank must be empty.

If the fuel filter is dirty, the engine will run rough and have less performance. Remove the old filter. Replace the old filter with a new filter. Use a factory replacement part.
HOW TO ADJUST THE CARBURETOR

The factory settings for the carburetor are for most conditions. If the engine is operated under the following conditions, you can adjust the carburetor mixture.

1. The engine has a loss of power or does not run smooth.
2. A change from summer to winter operation.
3. A 40° change in the operation temperature. The carburetor was adjusted at 80° at the factory.
4. The engine is operated above 4,000 feet

If an adjustment is needed, follow the steps below.

1. Turn the needle valve clockwise until it just closes. Turn the idle valve until it just closes.
   
   **CAUTION:** If you turn the valves until they are tight, you can damage the valves.

2. Turn the needle valve 1-1/2 turns counterclockwise. Turn the idle valve 1-1/4 turns counterclockwise. This first adjustment will permit the engine to start and get warm so that a last adjustment can be done.

3. Move the throttle control to the FAST position. Turn the needle valve clockwise until the engine starts missing (lean mixture). Then turn the needle valve counterclockwise past the smooth operating position (rich mixture).

4. Turn the needle valve to a position between rich and lean so that the engine can run smooth. (3400 ± 100 RPM).

5. Adjust the RPM. Move the throttle control to the SLOW position. Turn the idle speed screw until a fast idle is obtained (1750 ± 200 RPM). Turn the idle valve clockwise (lean) and counterclockwise (rich) until the engine idles smoothly. Then, turn the idle speed screw so that the engine idles at 1750 ± 200 RPM).

6. Move the throttle control to the FAST position. If the engine does not accelerate correctly, adjust the carburetor to a rich mixture.

HOW TO ADJUST THE THROTTLE CONTROL

If the engine is difficult to start or will not run at 3500 RPM in FAST position, then adjust the throttle control as follows:

1. Move the throttle control to the FAST position.
2. Loosen screw (C) that holds the throttle cable in position.
3. Pull the throttle cable up until the lever (E) touches link (F) as shown.
4. Tighten screw (C) Move the throttle control to the SLOW position and then back to the FAST position. Make sure lever (E) touches link (F) as shown.

**NOTE:** Do not change the engine governor. If the engine governor needs an adjustment, go to the nearest Sears Service Center. They have the equipment and experience to make the adjustment.
HOW TO REMOVE THE MOWER HOUSING

1. Move the lift lever to the lowest position.
2. Move the blade engagement control lever to the DISENGAGE position.
3. Remove the hair pins and the washers from the adjusting rods. See illustrations "C" and "D" below.
4. Remove the hair pins and the washers from the suspension link and the adjuster plate. See illustrations "A" and "B" below.
5. Remove the hair pin and washer from the blade control rod. See illustration "E" below.
6. Disconnect the front hanger from the axle support. See illustration "F" below.
7. Remove the mower drive belt from the stack pulley.
8. Pull the mower housing away from the right side of the unit.

HOW TO INSTALL THE MOWER HOUSING

1. Push the mower housing under the right side of the unit.
2. Put the mower drive belt around the stack pulley. Make sure the "V" side of the mower drive belt is against the stack pulley. Also, make sure the mower drive belt is not twisted.
3. Attach the front hanger to the axle support with the hanger rod. Fasten with the fasteners as shown. See illustration "F" below.
4. Make sure the mower drive belt is between the stack pulley and the belt guide.
5. Fasten the control rod to the blade engagement control with the washer and hair pin. See illustration "E" below.
6. Attach the suspension link and the adjuster plate to the lifter assembly. Fasten with the washers and hair pins. See illustrations "A" and "B" below.
7. Attach the right and the left adjusting rods to the suspension brackets. Fasten with the washers and hair pins. See illustrations "C" and "D" below.
8. Move the blade engagement control to the ENGAGE position. Make sure the mower drive belt is inside all the belt guides.
9. Make sure the mower housing is level. See the instructions on "How To Level The Mower Housing".
10. Check the operation of the blade engagement control. See the instructions on "How To Check And Adjust The Blade Engagement Control".
HOW TO REPLACE THE MOWER DRIVE BELT

1. Remove the mower housing. See the instructions on "How To Remove The Mower Housing".
2. Pull the belt retainer away from the idler pulley and remove the mower drive belt.
3. Pull the belt retainer away from the right mandrel pulley and remove the mower drive belt.
4. Remove the mower drive belt from the left mandrel pulley.
   NOTE: Replace the mower drive belt with a factory replacement belt.
5. Install the new mower drive belt. Pull the belt retainer away from the right mandrel pulley. Put the belt around the right mandrel pulley.
6. Pull the belt retainer away from the idler pulley. Put the flat side of the mower drive belt around the idler pulley.
7. Put the belt around the left mandrel pulley.
8. Make sure the "V" side of the mower drive belt is against the mandrel pulleys as shown.
9. Make sure the mower drive belt is under the end of the cross link rod as shown.
10. Make sure the mower drive belt is inside all the belt guides.
11. Install the mower housing. See the instructions on "How To Install The Mower Housing".
12. Before you mow, check the blade engagement control. See the instructions on "How To Check And Adjust The Blade Engagement Control".

![Diagram of mower drive belt components](image-url)
HOW TO REPLACE
THE MOTION DRIVE BELT

1. Remove the mower housing. See the instructions on "How To Remove The Mower Housing" in this instruction book.
2. Completely push the pedal forward and engage the parking brake.
3. Remove the idler pulley.
4. Loosen the belt guides that are around the drive pulley.
5. Remove the belt from the drive pulley and the stack pulley.
6. Remove the two screws from the support bracket as shown. Remove the support bracket.
7. Disconnect the shifter link as shown.
8. Remove the motion drive belt. Replace the drive belt with a replacement belt from the factory.
9. Install the motion drive belt on the top pulley of the stack pulley. Make sure that the "V" side of the belt is against the pulley.
10. Install the end of the belt around the drive pulley.
11. Tighten the belt guides that are around the drive pulley as shown.
12. Put the belt around the idler pulley. Assemble the idler pulley. Fasten the pulley with the hex nut. Make sure the flat side of the belt is against the idler pulley as shown. Also, make sure the belt is not twisted.
13. Connect the shifter link as shown.
14. Assemble the support bracket. Fasten with the two screws as shown.
15. Make sure the motion drive belt is inside all the belt guides as shown.
16. Before you use the unit, check the pedal adjustment. See the instructions on "How To Check And Adjust The Clutch".
17. Install the mower housing. See the instructions on "How To Install The Mower Housing" in this instruction book.
HOW TO LEVEL THE MOWER HOUSING

If the mower housing is level, the blade will cut easier and the lawn will look better.

WARNING: Before you make an inspection, adjustment, or repair to the unit, disconnect the wire to the spark plug. Remove the spark plug wire to prevent the engine from starting by accident.

1. Make sure the unit is on a hard level surface
2. Check the air pressure in the tires. If the air pressure is incorrect, the mower housing will not cut level. Make sure the tires are inflated to 12 psi (0.85 kg/cm²).
3. Move the lever for the blade engagement control to the DISENGAGE position. Move the lift lever to the number "4" cutting height position.
4. There are two adjustment procedures below that will level the mower housing.

THE FRONT TO BACK ADJUSTMENT

Use a ruler and measure the distance from the level surface to the bottom of the mower housing. Measure from the locations indicated by the small round dimples (or X marks) at points B and D. In correct adjustment, the front of the mower housing at point B will be from 0" to 1/2" (0 mm to 12 mm) higher than the back of the mower housing at point D.

1. Disconnect both adjuster rods from the adjuster rod brackets as shown.
2. Turn the adjustable nut clockwise to lower the front or counterclockwise to raise the front of the mower housing.
3. Connect the left adjuster rod to the adjuster rod bracket. Check the housing for the correct adjustment. Fasten the adjustable nut with the washer and hair pin.
4. Repeat the above steps for the right side using the small round dimples (or X marks) at points A and C.

THE SIDE TO SIDE ADJUSTMENT

Use a ruler and measure the distance from the level surface to the bottom of the mower housing. Measure from the locations indicated by the small round dimples (or X marks) at points A and B. In correct adjustment, the mower housing at points A and B must be within 1/4" (6 mm) of the same height. If the difference in the measurement is more than 1/4" (6 mm), adjust as follows.

1. Disconnect the adjuster plate from the mower housing as shown.
2. Move the adjuster plate to the front to raise or to the back to lower the left side of the mower housing. Connect the adjuster plate.
3. Check the housing for the correct adjustment. If necessary, repeat the adjustment.
SERVICE AND ADJUSTMENT

HOW TO REPLACE THE LIGHT BULB

1. Raise the tractor hood.
2. Pull the light socket from the bezel.
3. Pull the light bulb from the socket.
4. Install a new light bulb. Push the socket into the bezel.

HOW TO CLEAN THE MOWER HOUSING

WARNING: Before you clean the mower housing, stop the engine and disconnect the wire to the spark plug.

Grass and other debris on top of the mower housing can keep the belt from working correctly. Clean the mower housing as follows.

1. Move the lever for the blade engagement control to the ENGAGE position.
2. Clean the top of the mower housing.
3. Move the lever for the blade engagement control to the DISENGAGE position.
4. Again clean the top of the mower housing.
5. After you cut the grass, clean the bottom of the mower housing.

HOW TO CLEAN THE UNIT

WARNING: Before you clean the grass bagger or the top of the mower housing, stop the engine. Disconnect the wire to the spark plug.

For good performance, frequently clean the grass bagger as follows.

1. Clean the extension tube, the connector tube, and the elbow with soap and water.
2. To clean the window(s), first remove the screws that hold the window(s). To release the window tabs, press on the cover directly above the window tabs. Clean the window(s) with soap and water.
3. For correct operation of the belt drive system, clean the top and the bottom of the mower housing as follows.
4. Put the blade control lever in the ENGAGE position.
5. Remove grass and debris from the top of the mower housing.
6. Put the blade control lever in the DISENGAGE position.
7. Remove grass from the top of the mower housing.
8. Clean the bottom of the mower housing.
SERVICE AND ADJUSTMENT

HOW TO START WITH A WEAK BATTERY

If the battery is too weak to start the engine, the battery needs to be charged. If "Jumper Cables" are used to start the engine in an emergency, follow the procedure below.

NOTE: The unit is equipped with a 12 volt negative to ground system. Also, the other vehicle must have a 12 volt negative to ground system.

WARNING: Do not smoke. The fumes from the battery acid can cause an explosion. Keep the battery away from any flames or sparks. To prevent sparks, fasten the red jumper cable to the positive (+) terminal before connecting the black jumper cable.

1. Put a wet cloth over the vent caps of each battery.
2. Connect each end of the RED "Jumper Cable" to the positive (+) terminals of each battery. Make sure you do not touch the chassis with the cables.
3. Connect one end of the BLACK "Jumper Cable" to the negative (--) terminal of the charged battery.
4. Connect the other end of the BLACK "Jumper Cable" to the engine block.
5. Start the engine that has the weak battery last. Allow the engine to run.
6. To disconnect the "Jumper Cables", reverse the above steps.

HOW TO REPLACE THE FUSE

If the fuse is blown, the engine will not start. The location of the fuse is next to the battery. Remove the fuse and replace with a 15 amp. Automotive fuse.

FRONT WHEEL ALIGNMENT

The alignment of the front wheels cannot be adjusted if the steering is damaged and the alignment has changed, see your nearest Sears Service Center.

STORAGE (Over 30 Days)

At the end of each year, prepare the unit for storage as follows.

MOWER

CLEAN THE UNIT

1. Clean the mower housing. See "How To Clean The Mower Housing".
2. Wash the unit. Use wax to protect the unit.

LUBRICATE THE UNIT

See the "Lubrication" instructions in this book.

ENGINE

1. Clean the dirt and grass from the engine.
2. Change the oil. See the instructions, "How To Change The Oil".
3. Check the spark plug. See "How To Check The Spark Plug".

THE FUEL SYSTEM

WARNING: Do not drain the gasoline inside a building or near a fire. Do not smoke or the fumes from the fuel can cause an explosion.

CAUTION: During storage, it is important to prevent deposits from occurring in fuel system parts like the carburetor, fuel filter, fuel hose and the fuel tank. Alcohol gasoline mixtures (called gasohol or using ethanol or methanol) attract moisture causing acid deposits during storage. While the unit is in storage, the acids in the fuel can damage the fuel system. To prevent engine problems with the fuel system, empty the fuel system before storage of 30 days or longer.

1. Start the engine.
2. Run the engine until the fuel tank and the carburetor are out of fuel and the engine stops. Do not leave fuel in the fuel tank or the carburetor. The fuel can damage the function of the fuel system.
3. After storage, make sure you use fresh fuel.

BATTERY

1. Completely charge the battery. See the instructions, "How To Check And Charge The Battery".
2. Clean the battery terminals of any deposits. See "How To Clean The Battery".

NOTE: After a long period of time in storage, the battery must be charged.
TROUBLE SHOOTING CHART
(Recoil-Start And Electric Models)

PROBLEM: The engine will not start.
1. Follow the steps, How To Start The Engine in this book.
2. Clean the battery terminals. Tighten the cables.
3. Check for a loose wire. Tighten the limit switches. (See the wiring diagram.)
4. Drain the fuel tank. Clean the fuel line. Replace the fuel filter.
5. Remove the spark plug(s). Move the throttle to the SLOW position. Turn the ignition key to the ON position. Try to start the engine several times. Install the spark plug.
6. Replace the spark plug.
7. Adjust the carburetor.

PROBLEM: The engine will not turn over.
1. Follow the steps, How To Start The Engine in this book.
2. Check the level of the acid in the battery. If needed, add water. Charge the battery.
3. Replace the fuse.
4. Check the wiring harness for damage or a loose connection. Repair the damaged wire.
5. Electric-Start Models: replace the solenoid.
Recoil-Start Models: replace the module.

PROBLEM: The engine is difficult to start.
1. Adjust the carburetor.
2. Replace the spark plug.
3. Replace the fuel filter.

PROBLEM: The engine does not run smooth or has a loss of power.
1. Check the oil.
2. Clean the air filter.
3. Clean the air screen.
4. Replace the spark plug.
5. The engine is working hard. Use a lower gear.
6. Adjust the carburetor.
7. Replace the fuel filter.

PROBLEM: The engine does not run smooth at fast speed.
1. Replace the spark plug.
2. Adjust the throttle control.
3. Clean the air filter.
4. Replace the fuel filter.

PROBLEM: The engine stops when the blades are engaged.
1. To activate the seat sensor, always sit in the middle of the seat.
2. Check the wiring harness for damage or a loose connection. Repair the damaged wire.

PROBLEM: On slopes, the engine stops.
1. Mow up and down slopes. Never mow across a slope.
2. To activate the seat sensor, always sit in the middle of the seat.

PROBLEM: The engine will not idle.
1. Replace the spark plug.
2. Clean the air filter.
3. Adjust the carburetor.
4. Adjust the throttle control.
5. Drain the fuel tank. Clean the fuel line. Replace the fuel filter.

PROBLEM: A hot engine causes a decrease in power.
1. Clean the air screen.
2. Check the oil.
3. Adjust the carburetor.
4. Replace the fuel filter.

PROBLEM: Excessive vibration.
1. Replace the blade.
2. Check for loose engine bolts.
3. Decrease the air pressure in the tires.
4. Adjust the carburetor.
5. Check for a damaged belt or damaged pulley. Replace the damaged parts.

PROBLEM: The grass does not discharge correctly.
1. Stop the engine. Clean the mower housing.
2. Raise the height of cut.
3. Replace or sharpen the blade(s).
4. Move the shift lever to a slower speed.
5. Move the throttle control to the FAST position.
6. Replace the spring for the blade idler.

PROBLEM: The mower housing does not cut level.
1. Check the air pressure in the tires.
2. Adjust the level of the mower housing.
3. Check the front axle. If the front axle does not freely pivot, loosen the two axle bolts.

PROBLEM: The mower blades will not rotate.
1. Check the mower drive belt. Make sure the belt is installed correctly.
2. Replace the mower drive belt.

PROBLEM: The unit will not move when the clutch is engaged.
1. Adjust the clutch.
2. Replace the motion drive belt.
3. Check the motion drive belt. Make sure the belt is installed correctly.

PROBLEM: The unit moves slower or stops when the clutch is engaged.
1. Replace the motion drive belt.
2. Adjust the clutch.

PROBLEM: When the clutch/brake pedal is released, belt noise can be heard.
1. Temporary belt noise does not change the operation of the unit. If belt noise is continuous, check the routing of the belt. Make sure the belt is inside all belt guides.
2. If the noise is continuous, adjust the clutch.

PROBLEM: The rear wheels spin over uneven terrain.
1. Check the front axle. If the front axle does not freely pivot, loosen the two axle bolts.
MODEL NO. 502.255193  ELECTRICAL SCHEMATIC

BATTERY

+ 12V -

RED  BLACK

SOLENOID

STARTER

SEAT SWITCH

SEAT (SEAT UNOCCUPIED)

FUSE

15 AMP

RED

IGNITION SWITCH

CLUTCH PEDAL

INTERLOCK SWITCH

(CLUTCH ENGAGED)

ATTACHMENT

INTERLOCK SWITCH

(DISENGAGED)

BLACK

YELLOW

SOLID STATE

IGNITION

SPARK PLUG

HEADLIGHT 2.2 AMP

RECTIFIER (DIODE)

CHARGING COIL

3 AMPS, 20 VAC (MIN.)

AT MAX. RPM

CHASSIS GROUND

POS.  FUNCTION  CIRCUIT
1  OFF  G + M
2  RUN LIGHTS  B + L
3  RUN  ALL OPEN
4  START  B + S

MODEL NO. 502.255193  ELECTRICAL SCHEMATIC

BATTERY

+ 12V -

RED  BLACK

SOLENOID

STARTER

SEAT SWITCH

SEAT (SEAT UNOCCUPIED)

FUSE

15 AMP

RED

IGNITION SWITCH

CLUTCH PEDAL

INTERLOCK SWITCH

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MODEL NO. 502.255193  ELECTRICAL SCHEMATIC

BATTERY

+ 12V -

RED  BLACK

SOLENOID

STARTER

SEAT SWITCH

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SPARK PLUG

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CHASSIS GROUND

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3  RUN  ALL OPEN
4  START  B + S

MODEL NO. 502.255193  ELECTRICAL SCHEMATIC

BATTERY

+ 12V -

RED  BLACK

SOLENOID

STARTER

SEAT SWITCH

SEAT (SEAT UNOCCUPIED)

FUSE

15 AMP

RED

IGNITION SWITCH

CLUTCH PEDAL

INTERLOCK SWITCH

(CLUTCH ENGAGED)

ATTACHMENT

INTERLOCK SWITCH

(DISENGAGED)

BLACK

YELLOW

SOLID STATE

IGNITION

SPARK PLUG

HEADLIGHT 2.2 AMP

RECTIFIER (DIODE)

CHARGING COIL

3 AMPS, 20 VAC (MIN.)

AT MAX. RPM

CHASSIS GROUND

POS.  FUNCTION  CIRCUIT
1  OFF  G + M
2  RUN LIGHTS  B + L
3  RUN  ALL OPEN
4  START  B + S
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* When you order a tire, make sure to give the brand name of the tire so that the tread pattern on the tire will match.

** For repair parts, see the transaxle parts list page.
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* When you order a tire, make sure to give the brand name of the tire so that the tread pattern on the tire will match.

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### Repair Parts

#### Mower Housing

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* For repair parts, see the engine parts list pages.
MODEL NO. 502.255193

REPAIR PARTS
GRASS BAGGER

[Diagram of repair parts for a grass bagger]

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F-91726

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Assemblies include all parts shown in frames.
Assemblies include all parts shown in frames.
NOTE:
To identify Briggs & Stratton manufactured starter motors, measure the housing length.

Assemblies include all parts shown in frames.
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**NOTE: To Replace Crankshaft Woodruff Key. Order 94196.**

18 Base -Engine 490452 108 Valve Choke 222010 118 Valve -Needle +396568
20 Seal -Oil 291675 118 Valve -Needle +396568
22 Screw -Base Mounting Sem 94305 121 Carburetor Overhaul Kit 394698
23 Flywheel & Ring Gear Assy 492326 123 Screw -Carburetor Mtg. 93357
24 Key -Flywheel 222698 125 Carburetor Assembly 491031
25 Piston Assembly -Standard 394661 126 Body Assembly -Carburetor 490473 127 Plug -Welch +221997
Piston Assembly -0.010" O.S. 394662 128 Venturi -Carburetor 211960 130 Valve -Throttle 222433
Piston Assembly -0.020" O.S. 394663 131 Shaft and Lever -Throttle 481006 132 Stop -Throttle 211712
Piston Assembly -0.030" O.S. 394664 133 Float -Carburetor 299707
PISTON RING SET:
NOTE: For Chrome Ring Set-Standard Size- Order 392331
26 Ring Set -Piston Std. 394665 134 Valve -Fuel Inlet +394681
Ring Set -Piston -0.010" O.S. 391781 136 Bowl -Float 221995
Ring Set -Piston -0.020" O.S. 391782 137 Gasket -Float Bowl +270511
Ring Set -Piston -0.030" O.S. 391783 138 Washer -Float Bowl +222014
27 Lock -Piston Pin 260924 141 Shaft and Lever -Choke 390684
28 Pin Assembly -Piston Std 299691 142 Nozzle -Carburetor +299740
Pin Assy. -Piston 0.005" O.S. 391286 147 Screw -Nozzle +231323
29 Rod Assembly -Connecting 490348 171 Nut. Air Cleaner Mtg. 231532
NOTE: For Connecting Rod with 0.020" undersize
Crankpin Bore -Order 490469
216 Link -Choke 261610
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* Included in Gasket Set - Part No 490525

+ Included in Carburetor Overhaul Kit - Part No 394698
owners manual

Model No. 502.255193

How to Order Repair Parts

CRAFTSMAN®

12 HP. ELECTRIC START
40" MOWER
6 SPEED
LAWN TRACTOR

The Model Number for the mower is found on a decal attached to the back of the frame. The Model Number for the engine is found on the blower housing above the spark plug. Always give the Model Number when you call for service or order repair parts for your unit.

Repair parts can be ordered from any Sears Service Center/Departments and most Sears Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS HAVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST.

- PRODUCT - LAWN TRACTOR
- MODEL NUMBER - 502.255193
- ENGINE MODEL NO. - 281707-0428-01
- PART NUMBER
- PART DESCRIPTION

Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians. Sears technicians have the necessary parts, tools, and equipment to meet the Sears pledge, "We Service What We Sell".