

**SEARS**

# **CRAFTSMAN<sup>®</sup>**

**MODEL NUMBER 917.374711**

**OWNER'S MANUAL**



**Assembly  
Operation  
Customer  
Responsibilities  
Service  
Adjustments  
Repair Parts**

**Caution:  
Read and Follow  
all Safety Rules  
and Instructions  
Before Operating  
This Equipment**

**SEARS, ROEBUCK AND Co., Chicago, IL. 60684 U.S.A.**

## SAFETY RULES



CAUTION: ALWAYS DISCONNECT SPARK PLUG WIRE AND PLACE WIRE WHERE IT CANNOT CONTACT SPARK PLUG TO PREVENT ACCIDENTAL STARTING WHEN SETTING-UP, TRANSPORTING, ADJUSTING OR MAKING REPAIRS TO YOUR LAWN MOWER.



### IMPORTANT

FEDERAL REGULATIONS REQUIRE OPERATOR PRESENCE BLADE STOP CONTROLS TO MINIMIZE THE RISK OF BLADE CONTACT INJURY. YOUR LAWN MOWER IS EQUIPPED WITH SUCH CONTROLS. DO NOT ATTEMPT TO DEFEAT THE FUNCTION OF THE OPERATOR PRESENCE CONTROL UNDER ANY CIRCUMSTANCES.

- BE CAREFUL WHEN THE ENGINE IS RUNNING THE BLADE IS TURNING.
- Please read your owner's manual. Only allow persons who know the safety rules to use your lawn mower.
- DO NOT tie the operator presence control bar to the handle. Control must be free to permit brake engagement when handles and control are released.
- DO NOT allow children to use your lawn mower.
- Check your lawn mower over before each use. Tighten any loose bolts, nuts, etc.
- Remove all sticks, stones, wires, cans, boards, etc. from area to be mowed. These objects can be thrown by the blade.
- DO NOT allow children, bystanders or pets in the area while mowing.
- Always wear shoes when mowing. DO NOT operate lawn mower when barefoot or wearing open sandals.
- Always wear safety glasses or eye shields before starting your lawn mower and while mowing.
- Always shut off engine before trying to adjust wheel heights.
- When engine is running, DO NOT put hands or feet under lawn mower or in the discharge chute, nor make any adjustments.
- Stay clear of discharge opening at all times.
- Do not fill gas tank when engine is running, when indoors or when engine is hot. Allow engine to cool for several minutes before filling gas tank. Clean off any spilled gasoline before starting engine.
- Mow only in good light.
- Always stop blade when not cutting grass or when crossing gravel drive, sidewalk, or roadway.
- DO NOT continue to run your lawn mower if you hit a foreign object. Stop the engine, disconnect the spark plug wire from the spark plug, inspect the lawn mower for damage and make repairs as required.
- DO NOT use a damaged lawn mower. Always have damage repaired before mowing.
- DO NOT run your lawn mower if it vibrates too much. Stop engine and make repairs. Vibration is an indication of damage.
- Never use your lawn mower without proper guards or deflectors in place.
- Always mow across a slope or inclined area. DO NOT mow up or down a slope or inclined area.
- DO NOT mow in wet grass. Be careful of footing when mowing in wet grass, use shoes with good traction.
- DO NOT run with the lawn mower.
- DO NOT run your lawn mower indoors. Exhaust gases are deadly poison.
- Always disconnect the engine connector from the battery connector and the spark plug wire from spark plug to prevent accidental starting when transporting or storing your lawn mower after the mowing season.
- DO NOT attempt to raise engine speed, above factory settings. Engine damage or personal injury may result.
- If a grass catcher is used on your lawn mower, check the catcher often for damage or deterioration. It will wear through normal use. Use only a recommended replacement catcher.
- Always stop blade to remove or install catcher.
- DO NOT store your lawn mower or gasoline where fumes may reach an open flame and cause a fire.
- DRAIN THE GASOLINE from your lawn mower before transporting your lawn mower inside your car or other vehicle.



**LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS-- ATTENTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.**

**CONGRATULATIONS** on your purchase of a Sears Craftsman Lawn Mower. It has been designed, engineered and manufactured to give you the best possible dependability and performance. Should you experience any problem you cannot easily remedy, please contact your nearest Sears Service Center/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 lawn mower properly. Always observe the "SAFETY RULES".

MODEL NUMBER 917.374711

SERIAL NUMBER \_\_\_\_\_

DATE OF PURCHASE \_\_\_\_\_

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A DECAL ATTACHED TO THE REAR OF THE LAWN MOWER HOUSING.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

## PRODUCT SPECIFICATIONS

HORSE POWER:	5.0
DISPLACEMENT:	10.49 cu. in.
GASOLINE CAPACITY:	1.0 quart (Unleaded)
OIL (21 oz. Capacity):	SAE 30 or (SAE 10W30)
SPARK PLUG (GAP .030 in.):	Champion RN4C or Sears STD 360951
VALVE CLEARANCE: Intake:	.004 in.
Exhaust:	.004 in.
SOLID STATE IGNITION AIR GAP:	.0125 in.
BLADE BOLT TORQUE:	35-40 ft.-lbs.

## MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

## CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your lawn mower.
- Follow the instructions under "Maintenance" and "Storage" sections of this Owner's Manual.

### TWO YEAR LIMITED WARRANTY ON CRAFTSMAN POWER MOWER

For two years from the date of purchase, when this Craftsman Lawn Mower is maintained, lubricated and tuned-up according to the instructions in the owner's manual, Sears will repair, free of charge, any defect in material and workmanship.

If this Craftsman Lawn Mower is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase.

This warranty does not cover:

- Expendable items which become worn during normal use, such as rotary mower blades, blade adapters, belts, air cleaners and spark plug.
- Repairs necessary because of operator abuse or negligence, including bent crankshafts and the failure to maintain the equipment according to the instructions contained in the owner's manual.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE CRAFTSMAN POWER MOWER TO 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 may vary from state to state.

Sears, Roebuck and Company, D/731CR-W, Sears Tower, Chicago, IL 60684

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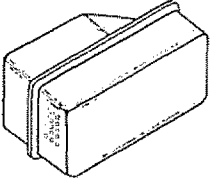
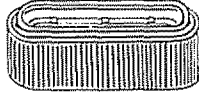
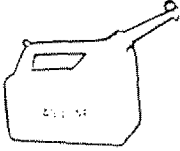


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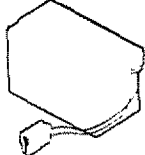
# LAWN MOWER ACCESSORIES

These accessories were available when this lawn mower was produced. They are also available at most Sears retail outlets, catalog and service centers. Most Sears stores can order repair parts for you, when you provide the model number of your lawn mower. Some of these accessories may not apply to your lawn mower.


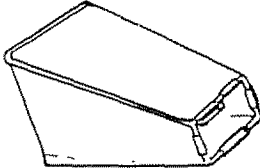
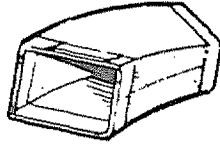
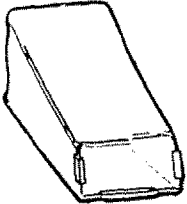
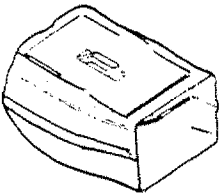
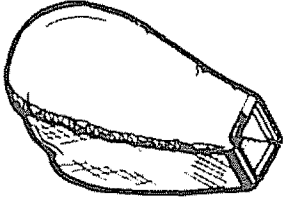
## ENGINE

<b>SPARK PLUG</b> 	<b>MUFFLER</b> 	<b>AIR FILTER</b> 	<b>GAS CAN</b> 	<b>ENGINE OIL</b> 	<b>STABILIZER</b> 
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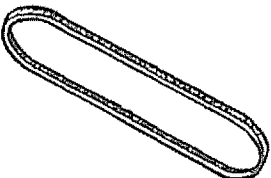
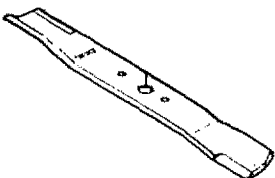
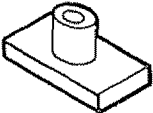


If lawn mower is an electric start

<b>CHARGER</b> 	<b>BATTERY</b> 
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## LAWN MOWER PERFORMANCE

<b>REAR BAG OPTIONAL</b>	<b>DUST SHIELD</b> 	<b>LEAF CATCHER</b> 	<b>CLIPPING DEFLECTOR</b> 
<b>REPLACEMENT BAG FOR REAR DISCHARGE LAWN MOWERS</b>	<b>FABRIC BAG</b> 	<b>PERMANEX CATCHER</b> 	
<b>OPTIONAL CATCHER FOR SIDE DISCHARGE LAWN MOWER</b>	<b>SIDE DISCHARGE CATCHER</b> 		

## LAWN MOWER MAINTENANCE

<b>BELT</b> 	<b>BLADE</b> 	<b>BLADE ADAPTER</b> 	<b>WHEELS</b> 	<b>LAWN MOWER COVER</b> 
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# ASSEMBLY

Your Craftsman Lawn Mower requires some assembly to prepare for use. Follow the instructions under "HOW TO SET-UP YOUR LAWN MOWER" to complete the required assembly of Handles and Grass Catcher. The Handles and Grass Catcher are shipped unassembled. A 3/4" socket or adjustable wrench is needed to attach Handle to your lawn mower.

## TO REMOVE LAWN MOWER FROM CARTON

- Cut down the corners of the carton and lay ends and sides down.
- Cut the plastic wrapping holding the Grass Catcher, Catcher Frame and customer package, remove and lay aside.
- Cut the remaining plastic wrapping holding the Handles.
- Remove the Lower Handle and lay aside.
- Lift up the Upper Handle with the Control Bars and Speed Control and lay out behind the lawn mower (See Fig. 1).
- Remove Engine Cover and discard.
- Lift up the lawn mower and slide shipping base from underneath lawn mower.

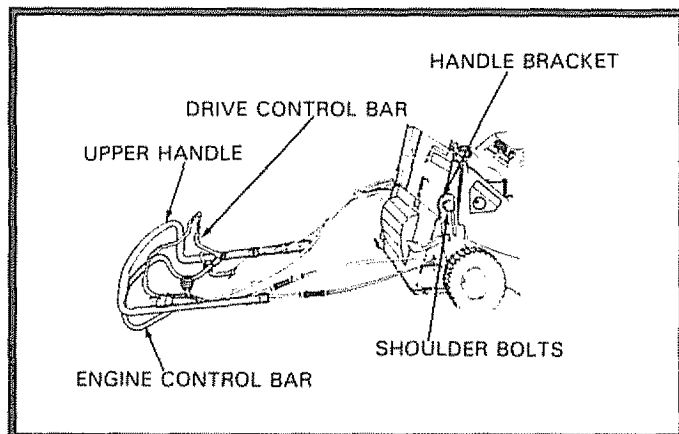


FIG. 1

## HOW TO SET-UP YOUR LAWN MOWER

- Place the Lower Handle over the Handle Brackets with the Adjuster Brackets down (See Fig. 2).
- Remove the Shoulder Bolts and Washers from the customer package.
- Install a Shoulder Bolt into the hole in the Lower Handle, placing a Washer between the Lower Handle and Handle Bracket.
- Start threads on the Shoulder Bolt into the Nut located on the inside of Handle Bracket (See Fig. 2). Do this for both sides of lawn mower.
- Tighten the two (2) Shoulder Bolts with the 3/4 socket or adjustable wrench.
- Raise Handle and put the center hole of the Height Adjusting Levers over the Pins on the Adjusting Brackets (See Fig. 3).
- To install the Adjusting Levers over the Pins, push in on the Lever toward center of lawn mower until the Lever clears the Pin and release to lock in place.
- Check to be sure that the Pins and Levers are securely in place, and in the same holes on each side.
- Remove the two (2) Handle Knobs and Bolts from upper part of Lower Handle (See Fig. 4).
- Place the Upper Handle onto the Lower Handle, then put the two (2) Handle Bolts through Handles, and install and tighten the Handle Knobs (See Fig. 4).
- Remove the six (6) Wire Ties from the customer package.
- See Fig. 4 for the following wire tie installation.

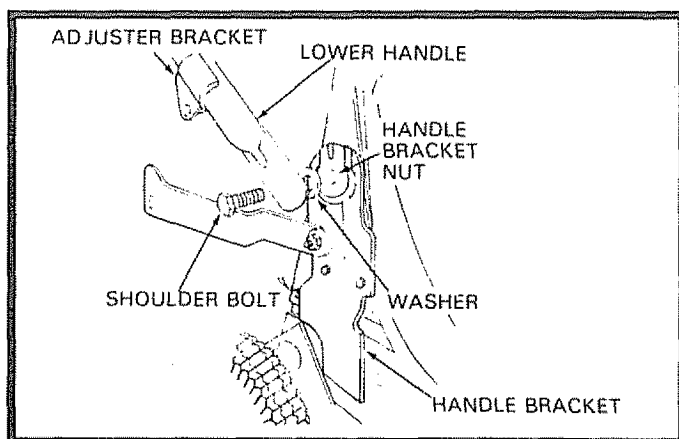


FIG. 2

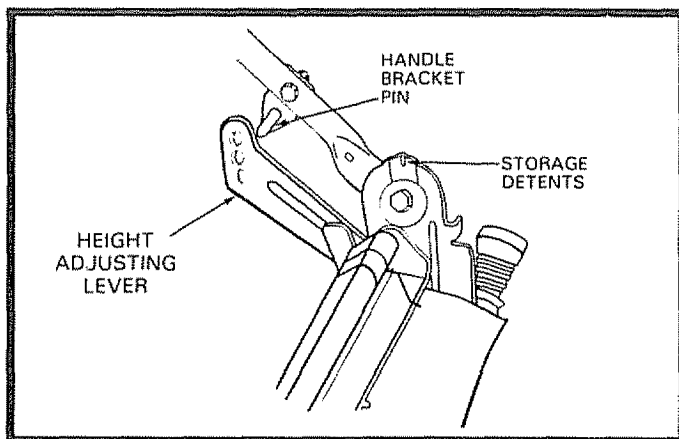


FIG. 3

# ASSEMBLY

## HOW TO SET-UP YOUR LAWN MOWER (CONT'D)

- Route the Wire Harness (electric wires inside black tubing) to fit along underside of top part of Lower Handle. Install one (1) Wire Tie around the Handle and Harness at the left end of the Instruction Decal. Leave some loop in the Harness on the right side so that if the Upper Handle is folded down the Harness will not be stretched.
- Install one (1) Wire Tie around the Upper Handle, Cables and Wire Harness 2 1/2 inches below the Speed Control.
- Install two (2) Wire Ties on the left side of Lower Handle over Cables and Wire Harness.
- Install one (1) Wire Tie on the right side of Lower Handle above the Cable Adjuster.
- Install one (1) Wire Tie below the Handle Adjuster Bracket.
- When all six (6) Wire Ties are installed and tightened in place, use a pair of wire cutting pliers or sharp knife to cut off the excess ends of Wire Ties.
- Check the Handle for a height that is comfortable for you.
- If the center position is not comfortable for you, refer to the "Adjust Handle Section" on page 19 of the manual for Handle adjustment.

### TO ASSEMBLE GRASS CATCHER

- The Catcher Frame is shipped inside the Grass Catcher, but not assembled.
- To assemble the Grass Catcher to the Catcher Frame, open the edges of the Plastic Clips and slip over the Catcher Frame as shown in fig. 5.
- Assemble the Top and Bottom Clips first, then assemble the Side Clips.

### TO ATTACH GRASS CATCHER

- Lower the Grass Catcher with Frame under the Handles at the rear of your lawn mower.
- Open the Rear Door (red door with knob) and hold open as shown in fig. 6.
- Lift up the Catcher and align the Lugs on the Catcher Frame with the Slots in the top rear of Housing as shown in fig. 6.
- Slide the Grass Catcher down into the Slots and the Retainers at the bottom rear corners of Housing (See Fig. 6).
- If Bottom Retainers are not engaged, the Catcher may swing open at the bottom.

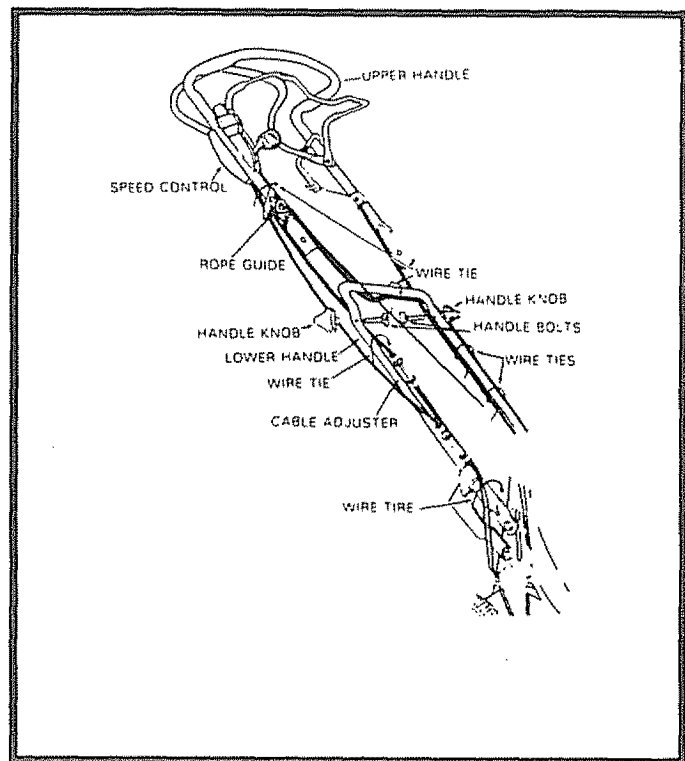


FIG. 4

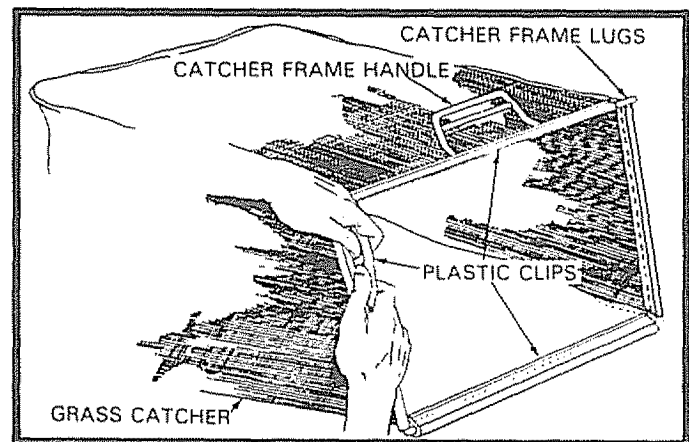


FIG. 5

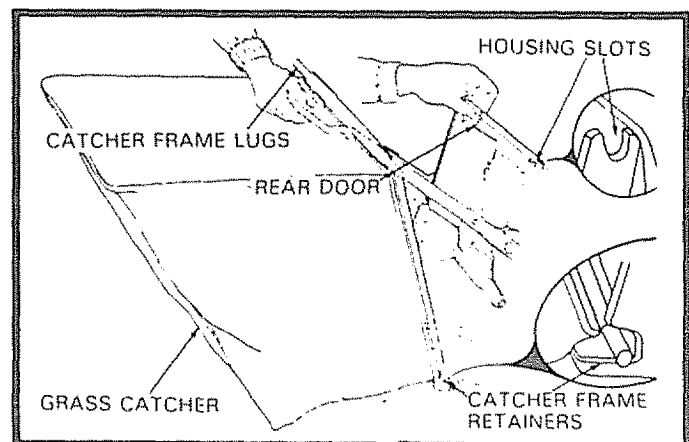


FIG. 6



**CAUTION: DO NOT RUN YOUR LAWN MOWER WITHOUT CLIPPING DEFLECTOR OR APPROVED GRASS CATCHER IN PLACE. NEVER ATTEMPT TO OPERATE THE LAWN MOWER WITH THE REAR DOOR REMOVED OR PROPPED OPEN.**

# ASSEMBLY

## TO PREPARE BATTERY

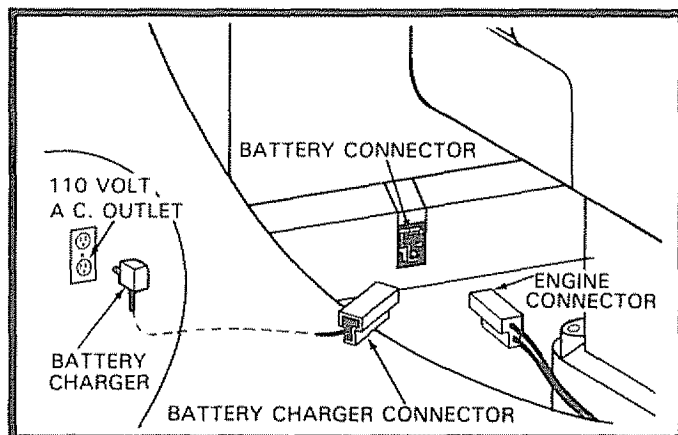
**NOTE:** Your Battery must be charged before you start your lawn mower. The Battery does not have to be removed to plug in the charger.

- Connect the Battery Charger, included with your lawn mower, to the Battery Connector (See Fig. 7).
- Plug Battery Charger into a 110 volt A.C. outlet (See Fig. 7).
- Leave the Battery Charger connected for 24 hours to charge Battery the first time. The Engine Alternator will not charge a discharged Battery.
- Your engine has a built-in Alternator to recharge your Battery during use.
- After charging, connect Engine Connector to Battery Connector (See Fig. 7).

At the end of the mowing season the Battery should be charged for 48 hours to protect the Battery during winter storage.



**CAUTION: ALWAYS DISCONNECT THE ENGINE CONNECTOR FROM THE BATTERY CONNECTOR TO PREVENT ACCIDENTAL STARTING WHEN TRANSPORTING OR STORING YOUR LAWN MOWER AFTER THE MOWING SEASON.**



**FIG. 7**

## THINGS TO CHECK BEFORE MOWING

- The Drive Control has provisions for adjustment.
- See "TO ADJUST DRIVE CONTROL" section under "SERVICE AND ADJUSTMENTS" section on pages 18.
- Checking this adjustment is only a precaution that your new lawn mower is properly prepared for use.



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# OPERATION

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## KNOW YOUR LAWN MOWER

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR LAWN MOWER. Compare the illustrations with your Lawn Mower to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

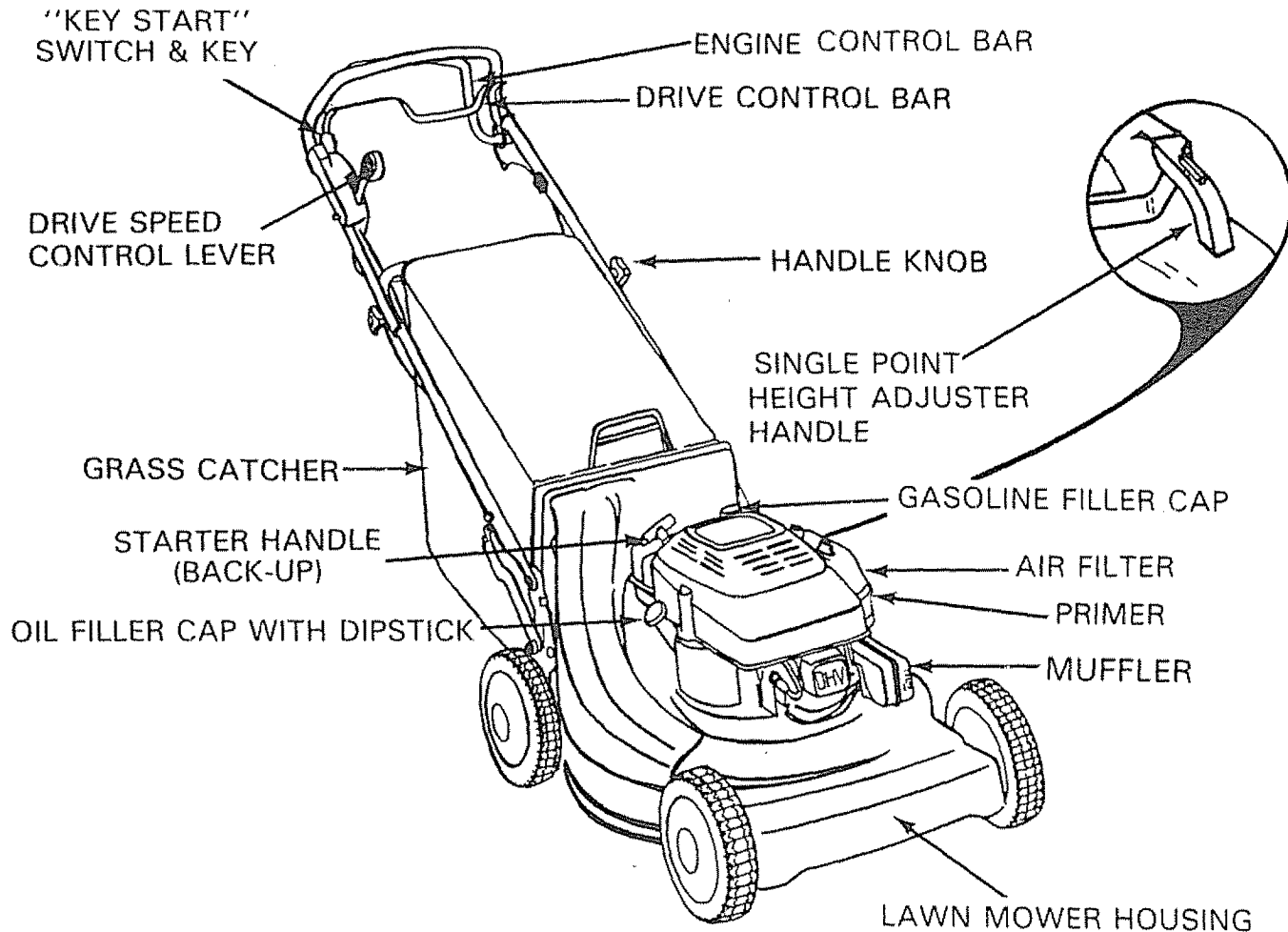


FIG. 8

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## MEETS CPSC SAFETY REQUIREMENTS

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Sears Rotary Walk-Behind Power Lawn Mowers conform to the safety standards of the American National Standards Institute and the U.S. Consumer Product Safety Commission. The blade turns when the engine is running.

**ENGINE CONTROL BAR** - must be held up to the handle to start the engine. Release to stop the engine.

**STARTER HANDLE** - used for starting the engine, if the battery is discharged.

**ENGINE SPEED CONTROL LEVER** - located on the left side of the engine which allows you to select either "HIGH" or "LOW" engine speed.

**DRIVE CONTROL BAR** - used to engage power-propelled forward motion of lawn mower.

**DRIVE SPEED CONTROL LEVER** - used to select the drive speed of your lawn mower.

**PRIMER** - pumps additional fuel from the carburetor to the cylinder for use when starting a cold engine.

**KEY START SWITCH** - turn this key as you would on your automobile to crank and start the engine.

**SINGLE POINT HEIGHT ADJUSTER HANDLE** - used to adjust the cutting height of lawn mower.

# OPERATION

## ENGINE SPEED CONTROL

The engine speed is controlled by a lever (red knob) located on the left side of the engine (See Fig. 9).

## ENGINE ZONE CONTROL



**CAUTION: FEDERAL REGULATIONS REQUIRE AN ENGINE CONTROL TO BE INSTALLED ON THIS LAWN MOWER IN ORDER TO MINIMIZE THE RISK OF BLADE CONTACT INJURY. DO NOT UNDER ANY CIRCUMSTANCES ATTEMPT TO DEFEAT THE FUNCTION OF THE OPERATOR CONTROL. THE BLADE TURNS WHEN THE ENGINE IS RUNNING.**

- Your lawn mower is equipped with an Operator Engine Control Bar which requires the operator to be positioned behind the Lawn Mower Handle to start and operate the lawn mower (See Fig. 9).

## GROUND DRIVE SIX SPEEDS

Your lawn mower provides six (6) speeds to let you select the speed that suits you best.

- The Speed Selector Lever can be changed while you are mowing.
- Speeds 1, 2, and 3 are found when the Engine Speed Control (red) Lever is in "LOW" position (See Figs. 9 & 10).
- Speeds 1, 2, and 3 are for slower, light grass cutting, trimming and quiet operation.
- Speeds 4, 5 and 6 are found when the Engine Speed Control (red) Lever is in "HIGH" position (See Figs. 9 & 10).
- Speed 4 is for slow, heavy/thick grass cutting or trimming.
- Speed 5 is for normal cutting and bagging.
- Speed 6 is for bagging dried clippings and ground transport.

**IMPORTANT: DO NOT ATTEMPT TO SHIFT SPEEDS WITH THE DRIVE BAR ENGAGED UNLESS THE ENGINE IS RUNNING.**

## TO OPERATE DRIVE SYSTEM

- Select ground speed by moving Drive Speed Selector Lever to 1-3 or 4-6 position and selecting either HI or LOW engine speed.
- 1-3 is slower and 4-6 is faster.

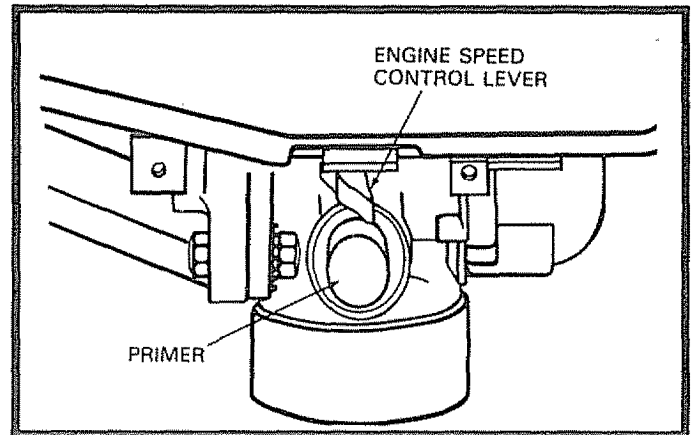


FIG. 9

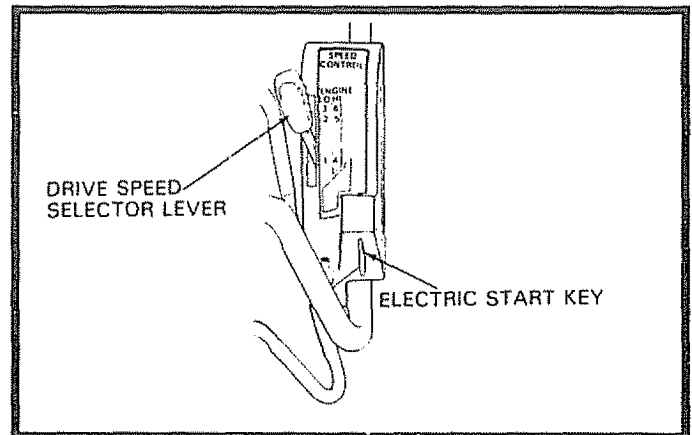


FIG. 10

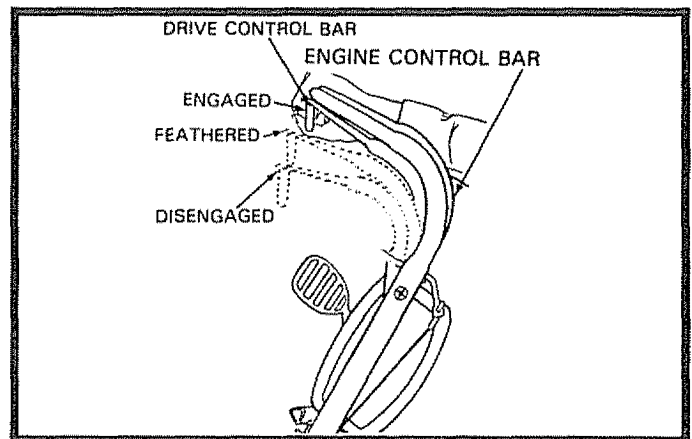


FIG. 11

- The ground speed may be selected either when standing or moving.
- To start forward motion, slowly pull Drive Control Bar to the Handle (See Fig. 11).
- To slow or stop forward motion let the Drive Control Bar move forward away from Handle.
- To stop forward motion release Drive Control Bar (See Fig. 11).

# OPERATION

## TO OPERATE DRIVE SYSTEM (CONT'D)

- By slightly releasing the Drive Control Bar the Drive can be slowed or "feathered" so you may make turns around obstacles or at end of rows (See Fig. 11).
- If the Drive is not pulling properly, the Drive Cable may need adjusting (see "To Adjust Drive Control" on page 18). This adjustment may be required after 15 hours of use.

## TO EMPTY GRASS CATCHER

- Lift up on Grass Catcher using the Handle of Catcher Frame.
- Remove Grass Catcher with clippings from under Handle.
- Carry Grass Catcher with clippings using Handle of Catcher Frame.
- Empty clippings from Bag using both Frame and Bag Handles (See Fig. 12).

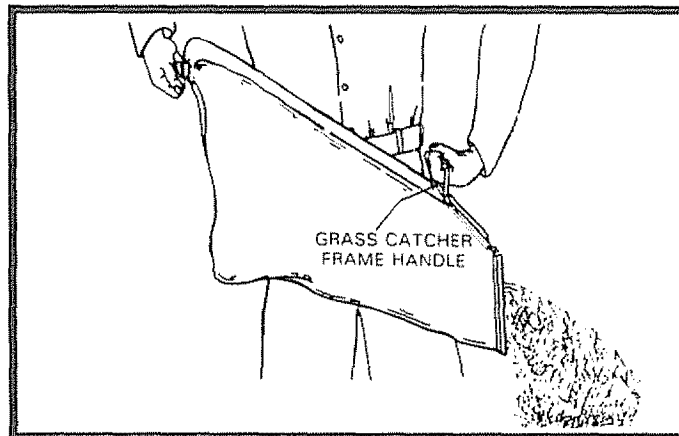


FIG. 12

## TO ADJUST CUTTING HEIGHTS

- Your lawn mower is equipped with a Single Point Height Adjuster that sets all four (4) Wheels at one cutting height.
- Seven (7) height of cut positions are available from position 1 through position 7.
- Position one (1) is approximately a 1" cutting height - position seven (7) is approximately a 4" cutting height (See Fig. 13).
- Your lawn mower is shipped in position 1. Adjust to desired height of cut position (See Fig. 13 & 14).
- The height of cut numbers 1 through 7 are shown in an opening located above the Adjusting Handle (See Figs. 13 & 14).
- To raise lawn mower to a higher position, grasp the Adjusting Handle and squeeze the Red Lever in the Handle to release (See Fig. 14).
- To change height of cut positions, while squeezing the Red Release Lever, push down or lift up on Handle until desired position is viewed (See Fig. 14).
- The mid cut position (4) is approximately the 2 1/2" cut height.

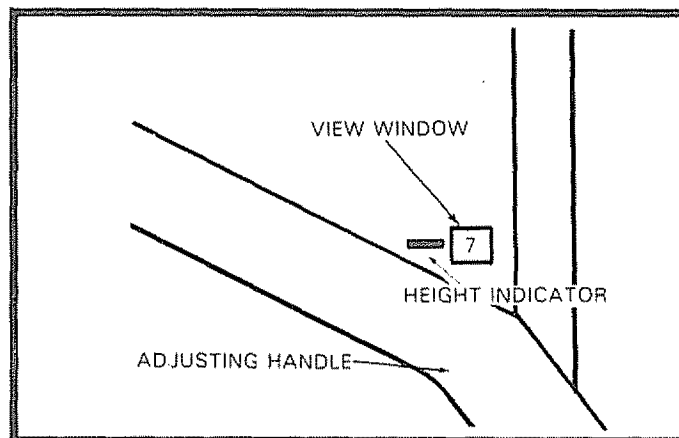


FIG. 13

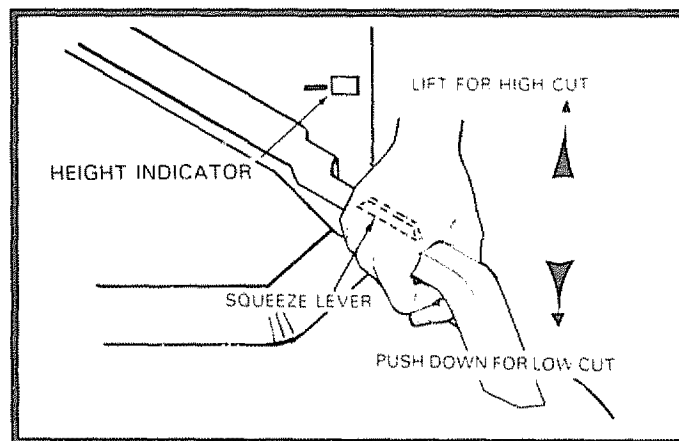


FIG. 14



**CAUTION: DO NOT ATTEMPT TO ADJUST HEIGHT OF CUT UNLESS THE LAWN MOWER IS SITTING UPRIGHT. PERSONAL INJURY MAY RESULT.**

# OPERATION

## BEFORE STARTING ENGINE

### OIL:

A 20 oz. bottle of Pennzoil SAE 30 Oil is included with your lawn mower.

**NOTE:** The use of a funnel will be helpful in filling the engine with oil.

- Remove Engine Oil Cap (See Fig. 15) and fill to the FULL line on the dipstick.
- Use 20 ozs. of SAE 30 oil or equivalent. SAE 10W 30 oil can also be used. **DO NOT** use SAE 10W 40 oil.
- **POUR OIL SLOWLY. DO NOT OVERFILL.**
- Check oil level before each use. Add oil if needed. Fill to FULL line on dipstick.
- To read proper level, tighten Engine Oil Cap each time.
- Reinstall Engine Oil Cap and tighten.
- After the first two (2) hours of mowing, change the oil, and every 25 hours thereafter. You may need to change the oil more often under dusty, dirty conditions.

### GAS:

- Fill gasoline tank with fresh, clean unleaded gasoline. **DO NOT USE PREMIUM GASOLINE. BE CAREFUL NOT TO OVERFILL TANK (SEE FIG. 15).**

**WARNING:** Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage for 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information.

Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

## TO START ENGINE

- Remove Keys from customer package. Install one (1) Key in the Electric Start Key Slot located in the Drive Control (See Fig. 17). Place the remaining Key in a safe place for future use.
- To start a cold engine, push Primer one (1) time. Use a firm push. Pushing Primer is not usually necessary when starting an engine which has run for a few minutes.
- Pull Engine Speed Control Lever back to "HIGH" position.
- Pull up and hold Engine Control (lower) Bar to Handle (See Fig. 16).
- Turn Electric Start Key clockwise to crank engine.

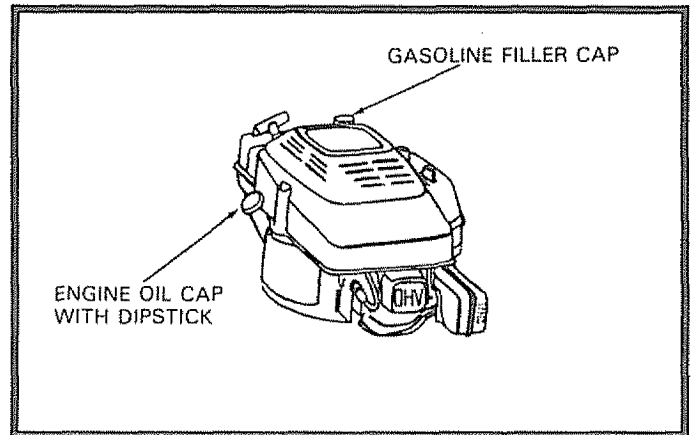


FIG. 15

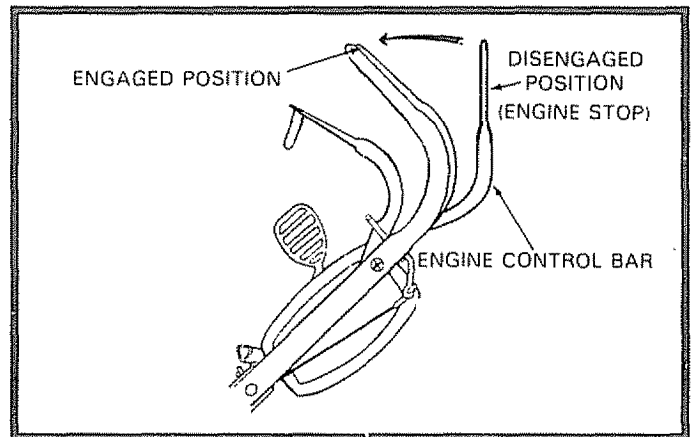


FIG. 16

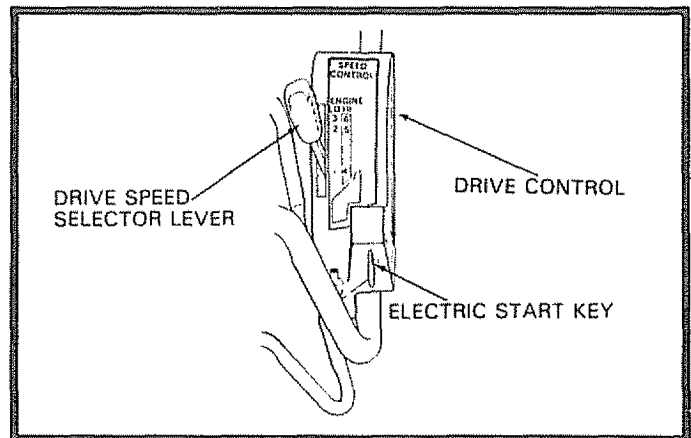


FIG. 17

**NOTE:** The Electric Starter will not operate unless the Engine Control Bar is depressed against Handle (See Fig. 16).

- If engine fails to start, repeat priming and starting steps.



**CAUTION: DO NOT CRANK ENGINE MORE THAN FIVE (5) CONTINUOUS SECONDS. WAIT 5 TO 10 SECONDS BETWEEN EACH TIME YOU TRY TO START.**

---

# OPERATION

---

## TO START ENGINE (CONT'D)

- To start engine using the Rope Starter, follow the above steps. Exchange the use of the Electric Start Key for Starter Rope. Do not allow Starter Rope to snap back.

• To "STOP" engine, release Engine Control Bar.

**NOTE:** In cooler weather it may be necessary to repeat priming steps. In warmer weather over priming may cause flooding and engine will not start. If you do flood engine wait a few minutes before attempting to start and DO NOT repeat priming steps.

## MOWING TIPS

- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut and lower the ground speed to keep from overloading the engine and leaving clumps of grass clippings.
- For extremely heavy cutting, reduce the width of cut and raise the lawn mower housing one (1) setting higher for better discharge of grass.
- When using a rear discharge lawn mower in moist, heavy grass, clumps of cut grass may not enter the grass catcher. Reduce ground speed (pushing speed) and/or run the lawn mower over the area a second time.
- If a trail of grass clippings is left on the right side of a rear discharge lawn mower, mow in a clockwise direction with a small overlap to collect the clippings on the next pass.
- Pores in cloth grass catchers can become filled with dirt and dust with use and catchers will collect less grass. To prevent this, regularly hose catcher off with water and let dry before using.

# MAINTENANCE

## GENERAL RECOMMENDATION

- Once a year you should replace the Spark Plug, Air Filter and check Blade for wear. A new Spark Plug and Air Filter assures proper air-fuel mixture and helps your engine run better and last longer.
- You should check all fasteners and be sure they are tight.
- Follow the Service Recommendation Schedule on page 21.

## LAWN MOWER

### BLADE/BLADE ADAPTER CARE

Your lawn mower will work better with a sharp Blade.



**CAUTION: DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND PLACE WIRE WHERE IT CANNOT COME IN CONTACT WITH THE SPARK PLUG. DO NOT ATTEMPT TO ADJUST HEIGHT OF CUT UNLESS THE LAWN MOWER IS SITTING UPRIGHT. PERSONAL INJURY MAY RESULT.**

#### TO REMOVE BLADE:

- Turn lawn mower on its side. Make sure Air Filter and Carburetor are up.
- Use block of wood between Blade and Lawn Mower Housing to prevent Blade from turning when removing the Blade Bolt.
- Protect your hands with gloves and/or wrap Blade with heavy cloth.
- Remove Blade Bolt by turning counter-clockwise. Use a 9/16" box or open-end wrench.
- Remove Blade and attaching hardware (Bolt, Lockwasher and Hardened Washer) (See Fig. 18).

**NOTE:** Remove the Blade Adapter and check the Key inside hub of Blade Adapter. The Key must be in good condition to work properly. Replace Adapter if damaged.

#### TO REPLACE BLADE:

- Position the Blade Adapter on the Engine Crankshaft. Be sure Key in Adapter and Keyway in Crankshaft are aligned.
- Position Blade on to the Blade Adapter aligning the two (2) holes in the Blade with the raised lugs on the Adapter.

**NOTE:** Be sure the word TOP (stamped on the Blade) is toward the engine (See Fig. 18).

- Install the Blade Bolt with the Lockwasher and Hardened Washer into Blade Adapter and Crankshaft (See Fig. 18).

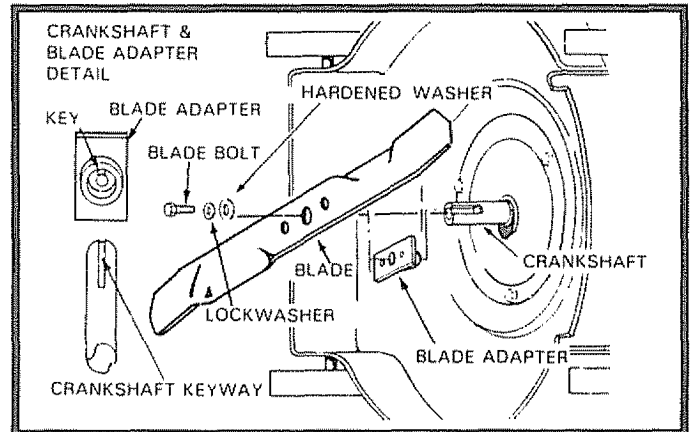


FIG. 18

- Use block of wood between Blade and Lawn Mower Housing and tighten the Blade Bolt, turning clockwise.
- The recommended tightening torque is 35-40 ft. lbs.
- Torque wrenches are available at most Sears stores and through the catalog.



**CAUTION: A LOOSE BLADE CAN BE DANGEROUS AND MAY MAKE THE ENGINE HARD TO START.**

Use only a Sears authorized replacement Blade to get the best cutting results.

**NOTE:** We do not recommend sharpening Blade - but if you do, be sure the Blade is balanced.

#### TO SHARPEN BLADE:

- The Blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the lawn mower.
- Care should be taken to keep the Blade balanced. An unbalanced Blade will cause excessive vibration when running and eventual damage to lawn mower or engine.
- To check Blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of Blade over the head of the nail. If Blade is balanced, it should remain in a horizontal position. If either end of the Blade moves downward, Blade is not balanced. Sharpen the heavy end until the Blade is balanced.

# MAINTENANCE

## DRIVE WHEELS

Check Rear Drive Wheels each time before you mow to be sure they move freely. The wheels not turning freely means trash, grass cuttings, etc. may be inside the Drive Wheel and Dust Cover area and must be cleaned out to free Drive Wheels.

If necessary to clean the Drive Wheels, check both Rear Wheels (See Fig. 19).

- Remove Hubcaps and Locknuts.
- Remove Wheels from Wheel Adjuster Axles.
- Remove any trash or grass cuttings from inside the Dust Cover, Pinion and/or Drive Wheel Gear Teeth.
- If you remove the Drive Pinion and Drive Pawl, refer to fig. 20 for correct assembly of Drive Pawl.
- The Pinion Gear must be installed with the Left Gear on the left side and the Right Gear on the right side, from an operator's view.
- The Pinion Gear is stamped with an "L" (Left) or "R" (Right) on the inside. If installed incorrectly, the Drive System will not work.
- Place Wheels back on Adjuster Axles.
- Replace Washers, Hairpin Cotter and Hubcaps.

**NOTE:** Pinions and Drive Pawls should be cleaned and lubricated with spray lubricant approximately every 25 hours.

## GRASS CATCHER

- The Catcher may be hosed with water, but must be dry when used.
- Check your Grass Catcher often for damage or deterioration. Through normal use it will wear. If Catcher needs replacing, replace only with a manufacturer approved replacement Catcher from Sears. Give the lawn mower model number when ordering.

## ENGINE

### TO CHANGE OIL (WARM OIL DRAINS BETTER)



**CAUTION: DISCONNECT BATTERY CONNECTOR FROM ENGINE AND SPARK PLUG WIRE FROM SPARK PLUG AND PLACE WIRE WHERE IT CANNOT COME IN CONTACT WITH SPARK PLUG. DO NOT ATTEMPT TO ADJUST HEIGHT OF CUT UNLESS THE LAWN MOWER IS SITTING UPRIGHT. PERSONAL INJURY MAY RESULT.**

- Remove Engine Oil Cap; lay aside on a clean surface.
- Tip lawn mower on its side as shown in Fig. 21 and drain oil into suitable container. Rock lawn mower back and forth to remove any oil trapped inside of engine.

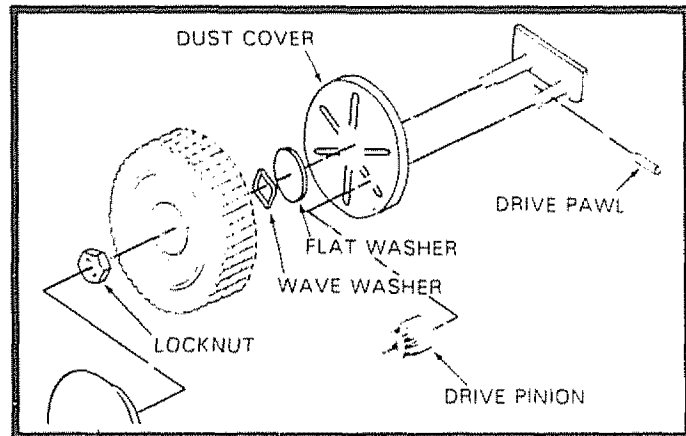


FIG. 19

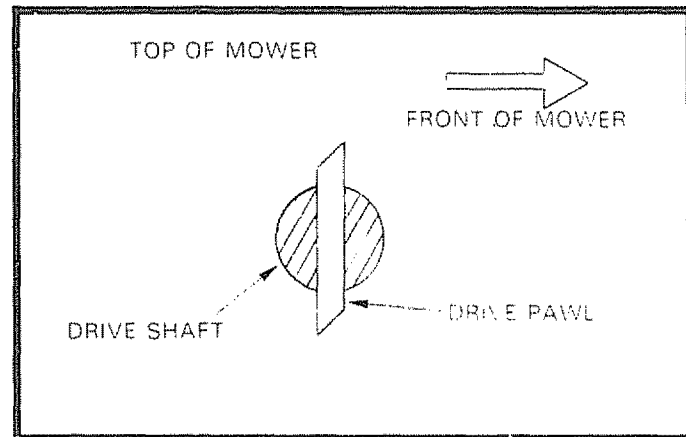


FIG. 20

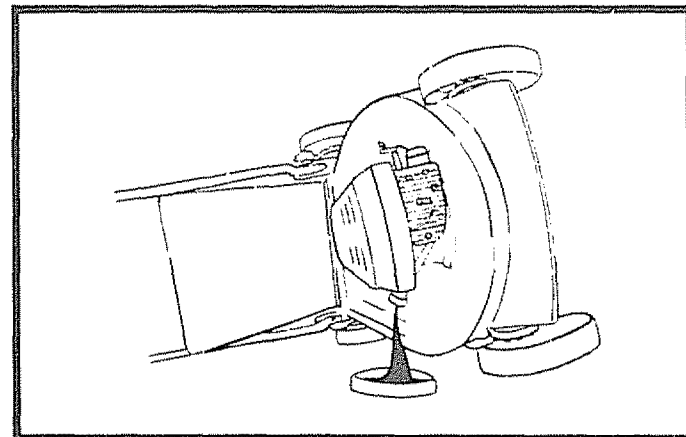


FIG. 21

- Wipe off any spilled oil on lawn mower and on side of engine.
- Fill engine with SAE 30 or 10W 30 oil. Fill only to the "FULL" line on the dipstick. DO NOT overfill.
- Replace Engine Oil Cap.
- Reconnect Spark Plug Wire to Spark-Plug.

# MAINTENANCE

## AIR FILTER

Your engine will not run properly and may be damaged by using a dirty Air Filter. Replace the Air Filter every year, more often if you mow in very dusty, dirty conditions. Do not wash Air Filter.

### TO CHANGE AIR FILTER

- Loosen and remove the two (2) Plastic Cap Nuts on top of Air Cleaner Cover (See Fig. 22).
- Lift up and rotate Cover to unhook Latch on the front end of Cover.
- Loosen and remove the Wing Nut and Plate holding Filter in place (See Fig. 22).
- Lift up on the Air Filter Element and remove.
- Clean off the face of the Air Cleaner Seal on top of Carburetor.
- When cleaning be careful to keep trash and dirt from dropping into Carburetor.
- Put new Filter in place.
- Put the Plate and Wing Nut back in place.
- Put the Air Filter Cover back, be sure to hook the front end into the Engine Blower Housing.
- Put the two (2) Cap Nuts back and tighten.

## SPARK PLUG

Change your Spark Plug each year to make your engine start easier and run better. Set Spark Plug gap at .030 inch.

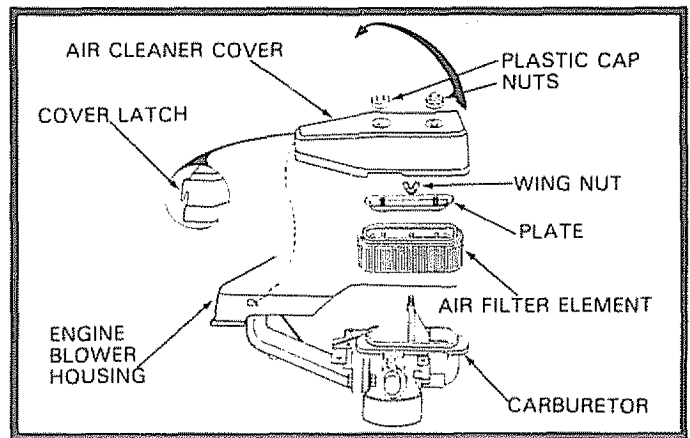


FIG. 22

## CLEANING

We recommend that you clean the underside of your lawn mower after each use.



**CAUTION: DISCONNECT BATTERY CONNECTOR FROM ENGINE AND SPARK PLUG WIRE FROM SPARK PLUG AND PLACE WIRE WHERE IT CANNOT COME IN CONTACT WITH SPARK PLUG. DO NOT ATTEMPT TO ADJUST HEIGHT OF CUT UNLESS THE LAWN MOWER IS SITTING UPRIGHT. PERSONAL INJURY MAY RESULT.**

- Turn lawn mower on its side with Carburetor up.
- Clean the underside of your lawn mower by scraping to remove build-up of grass and trash.
- Clean your lawn mower and engine often to keep trash from accumulating around engine. A clogged engine runs hotter and shortens engine life.
- We DO NOT recommend using a garden hose to clean lawn mower unless the Electrical System, Muffler, Air Filter, and Carburetor are covered to keep water out. Water in engine can result in shortening engine life.



# SERVICE AND ADJUSTMENT

## TO REMOVE/REPLACE DRIVE BELT



**CAUTION: DISCONNECT BATTERY CONNECTOR FROM ENGINE AND SPARK PLUG WIRE FROM SPARK PLUG. PLACE WIRE WHERE IT CANNOT COME IN CONTACT WITH SPARK PLUG. DO NOT ATTEMPT TO ADJUST HEIGHT OF CUT UNLESS THE LAWN MOWER IS SITTING UPRIGHT. PERSONAL INJURY MAY RESULT.**

- Remove Grass Catcher from lawn mower.
- Set lawn mower in number six (6) height of cut. DO NOT change height setting unless lawn mower is on its Wheels in normal operating position.
- Turn lawn mower on its side with Carburetor up.
- Locate the Belt Tension Spring and Retaining Pin on the Back Plate of lawn mower.
- Using a piece of wire, pull the end of Tension Spring through the hole and remove Retaining Pin (See Fig. 23).
- Remove the Hi-Vac Baffle, See Fig. 24 for fastener locations.
- Remove Cable Clamp and slip Cable Ends out of Mounting Slots (See Fig. 24A).
- Tilt Driven Pulley forward until it is resting against Torque Bracket (See Fig. 24A). Remove Locknut on top of Driven Pulley. This will allow you to remove the Belt Keeper and Belt.
- Loosen Bolt holding Belt Snubber (See Fig. 24A), and slip Belt off of Engine Pulley and over Blade.
- To install new Belt, slip Belt over Blade and into Engine Pulley. Readjust Belt Snubber and tighten Bolt (See Fig. 25 on page 18).
- Place Belt on Driven Pulley and reinstall Belt Keeper, Spacer, Spring and Locknut as shown in Fig. 24A. (Do Not tighten Locknut at this time).
- With Driven Pulley resting against the Torque Bracket, rotate the Belt Keeper until right edge of Keeper is approximately 1/16" from the Torque Bracket (See Fig. 25A on page 18) and tighten Locknut.
- Slip Cable Ends back into Mounting Slots and reinstall Cable Clamp.
- Using a piece of wire, pull the Tension Spring through the hole in the Back Plate and reinstall the Retaining Pin (See Fig. 25B on page 18). DO NOT over stretch Spring as damage to the Spring may result.
- Reinstall Hi-Vac Baffle.

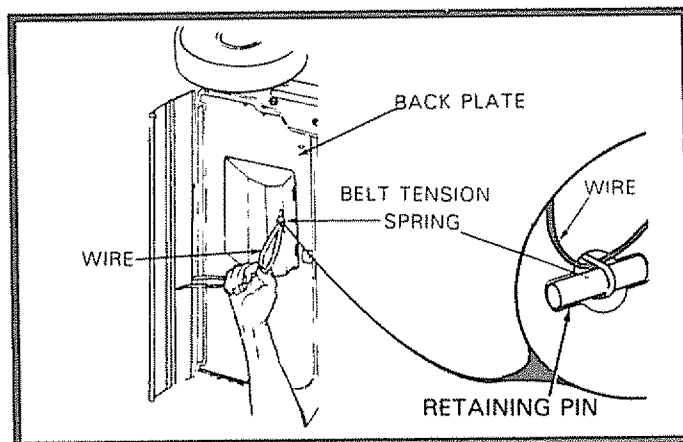


FIG. 23

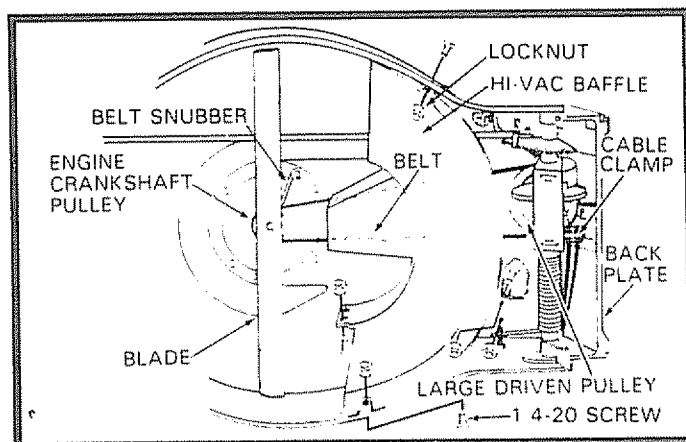


FIG. 24

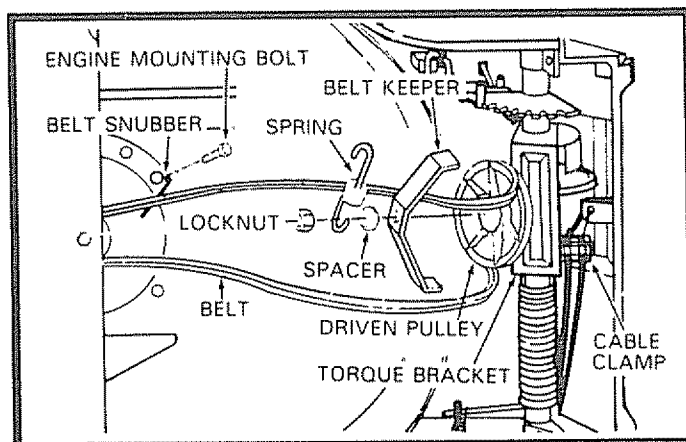


FIG. 24A

# SERVICE AND ADJUSTMENT

## TO ADJUST DRIVE CONTROL

- To check for proper adjustment of Drive Control, slowly pull up on the Drive Bar while pulling lawn mower backwards until Rear Wheels stop turning.
- When Rear Wheels stop turning, hold the Drive Bar and check the dimension as shown in fig. 26.
- The Drive Control is properly adjusted when the measurement over the Handle and Drive Bar is approximately 3 1/2" (See Fig. 26). If the measurement is less than 3 1/2" adjust Drive Control Cable.
- The Drive Control Adjuster is the one closest to operator.
- To make the Drive Control adjustment, hold the upper hexagon fitting and turn the Adjusting Sleeve clockwise, from operator position (See Fig. 27).
- If after several adjustments no further adjustment is left, the Drive Wheel must be replaced.

**NOTE:** Through normal use the Drive Wheel will wear.

- If you have problems making the described adjustments, contact your nearest Sears Service Center.

## SPEED CONTROL RANGE

- The Speed Control Range is properly set at the factory and should not require additional adjustment. If you feel speed adjustment is incorrect or Speed Control does not operate properly contact your nearest Sears Service Center.

## CARBURETOR

Your Carburetor has a non-adjustable fixed main jet for mixture control. If your engine does not operate properly due to suspected Carburetor problems, take your lawn mower to an authorized Sears Service Center for repair and adjustment.

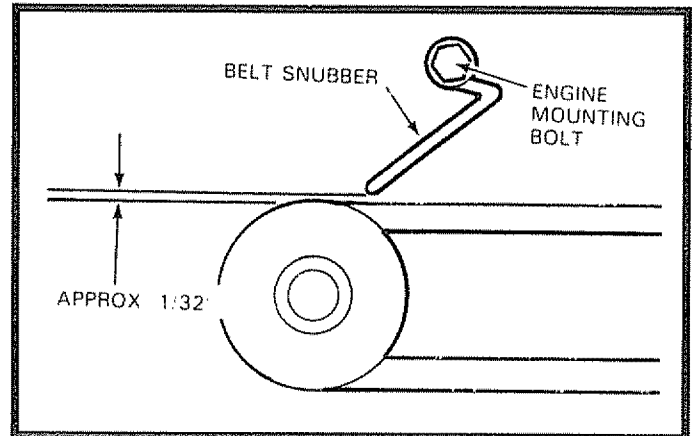


FIG. 25

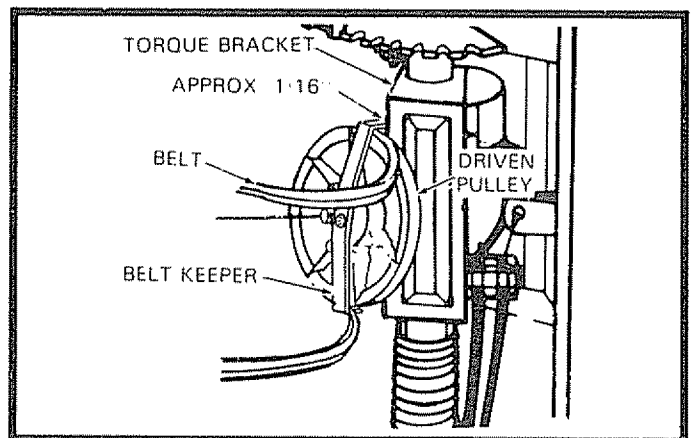


FIG. 25A

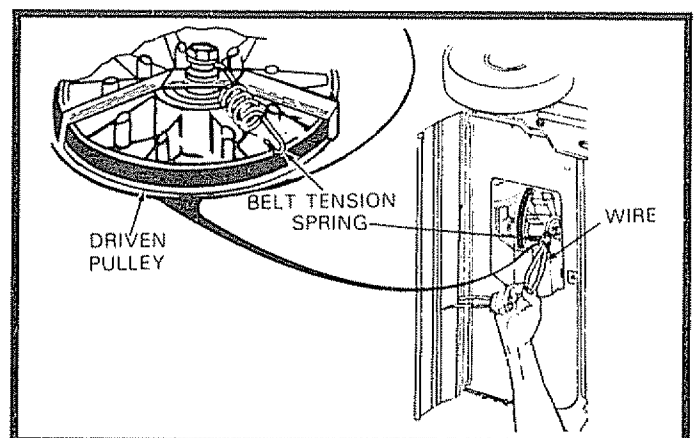


FIG. 25B

# SERVICE AND ADJUSTMENT

## ENGINE SPEED

Your engine speed has been factory set. Do not attempt to increase engine speed or it may result in personal injury. If you believe that the engine is running too fast or too slow, take your lawn mower to an authorized Sears Service Center for repair and adjustment.

## REAR DEFLECTOR

The Rear Deflector, attached between the Rear Wheels of your lawn mower, is provided to minimize the possibility that objects will be thrown out the rear of the lawn mower into the operator's mowing position.

If the Rear Deflector becomes damaged, it should be replaced.

## TO ADJUST HANDLE

- Grass bag should be removed temporarily for easier adjustment of Handle.
- The Handle on your lawn mower has three (3) heights - adjust to the height that suits you.
- To adjust the Handle, push in on the Adjusting Levers to clear the Pins (See Fig. 28).
- Raise or lower Handle and position the Adjusting Levers on to the Pins.
- Be sure that Handle Bracket Pin is in the same Lever Hole on both sides of the lawn mower.

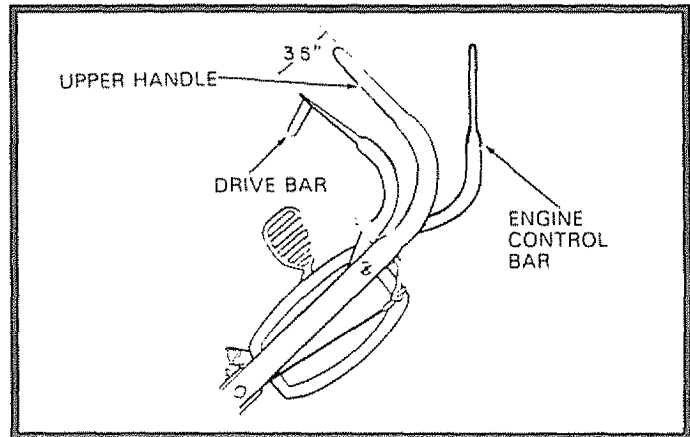


FIG. 26

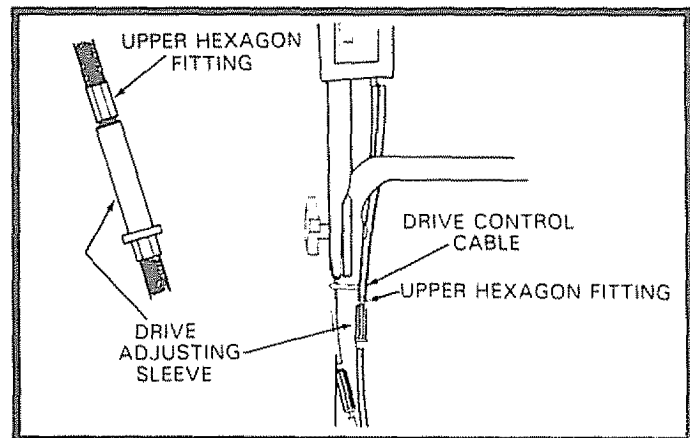


FIG. 27

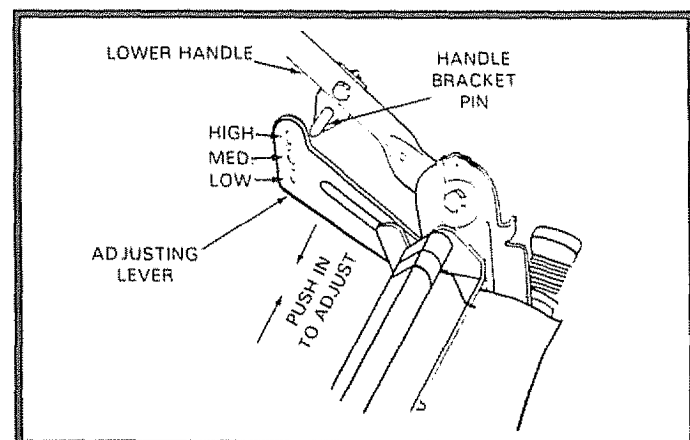


FIG. 28

# STORAGE

Your lawn mower and engine should be prepared for off-season storage as follows:

## LAWN MOWER

- Clean underside of Lawn Mower Housing. (See "Cleaning" in maintenance section of manual.)
- Inspect and replace/sharpen Blade, if required (See "Blade/Blade Adapter Care" in maintenance section of manual).
- Hose Grass Catcher off with water and let dry before storing.
- Lubricate as shown in Service Recommendation chart on page 21 of manual.

## HANDLE

- You can stand your Lawn Mower Handle up for storage as shown in Fig. 29.
- To stand your Handle up for storage, push in on the Adjusting Levers until the Levers clear the Pins then raise Handle until it locks in an upright vertical position (See Figs. 29 & 30).

## ENGINE

- Change oil (See "To Change Oil" in maintenance section of manual).
- Drain fuel and run engine until fuel system is empty.

**IMPORTANT:** IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS THE CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

## BATTERY

- Disconnect the Battery from the Engine Connector and charge Battery for 48 hours.

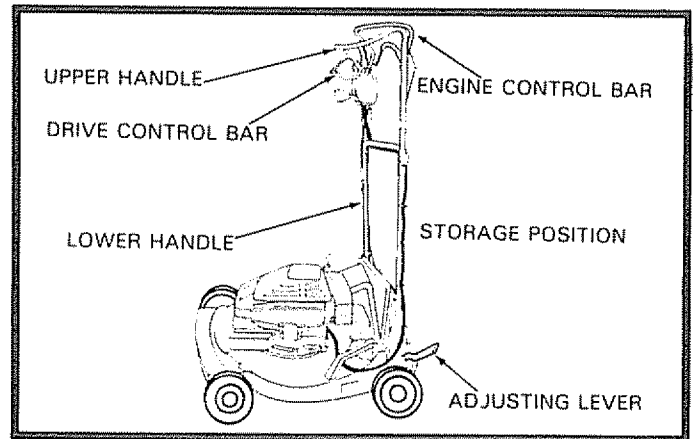


FIG. 29

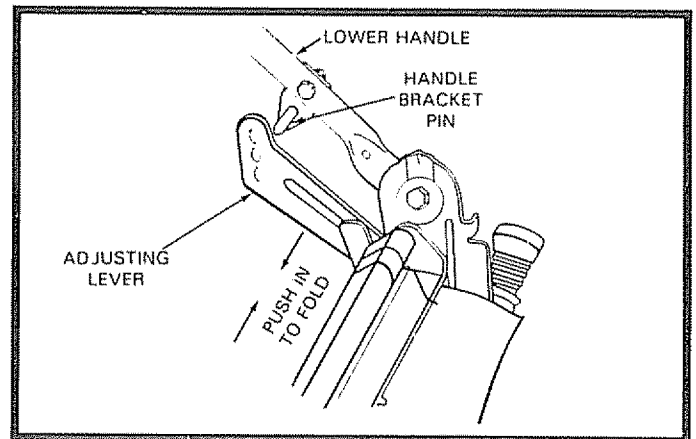


FIG. 30

## OTHER

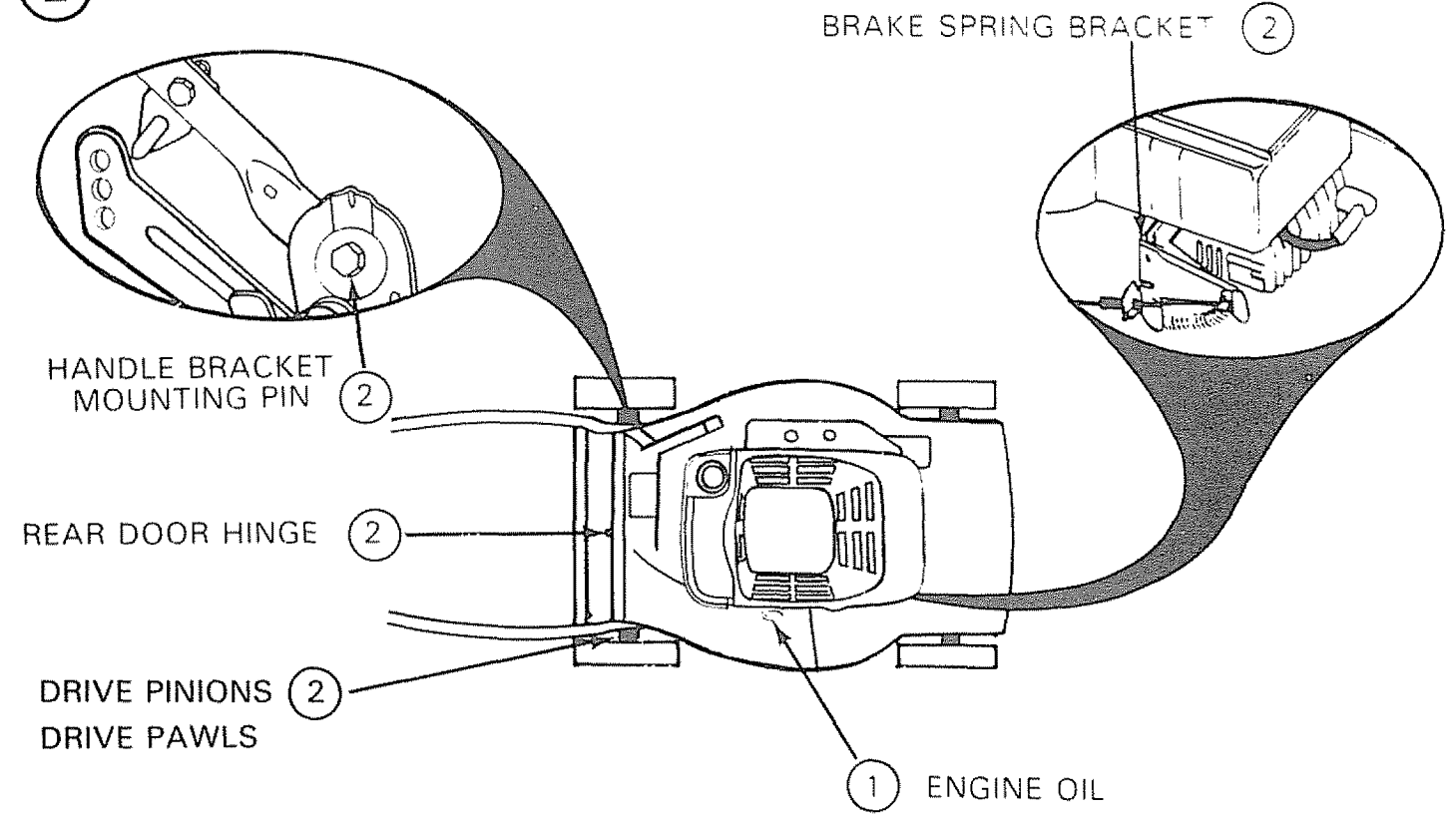
- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline can cause problems.
- Do not store your lawn mower under any plastic cover. Plastic cannot breathe which allows condensation to form and can cause your lawn mower to rust.
- When setting up your Handle from the storage position, the Lower Handle will require manual locking into the mowing position.

# SERVICE RECOMMENDATIONS

SERVICE RECORD Fill in dates as you complete regular service	SCHEDULE				SERVICE DATES		
	First 2 Hours	Every 10 Hours	Every 25 Hours	Every Use			
Blade Checked		✓					
Blade Replaced (Sharpened)			✓				
Engine Oil Change	✓		✓				
Engine Oil Check				✓			
Air Cleaner			✓				
Spark Plug Replaced			✓				
Lubricate Lawn Mower			✓				
Cleaning				✓			
Grass Catcher (if applicable)				✓			
Drive Pinions and Drive Pawls			✓				

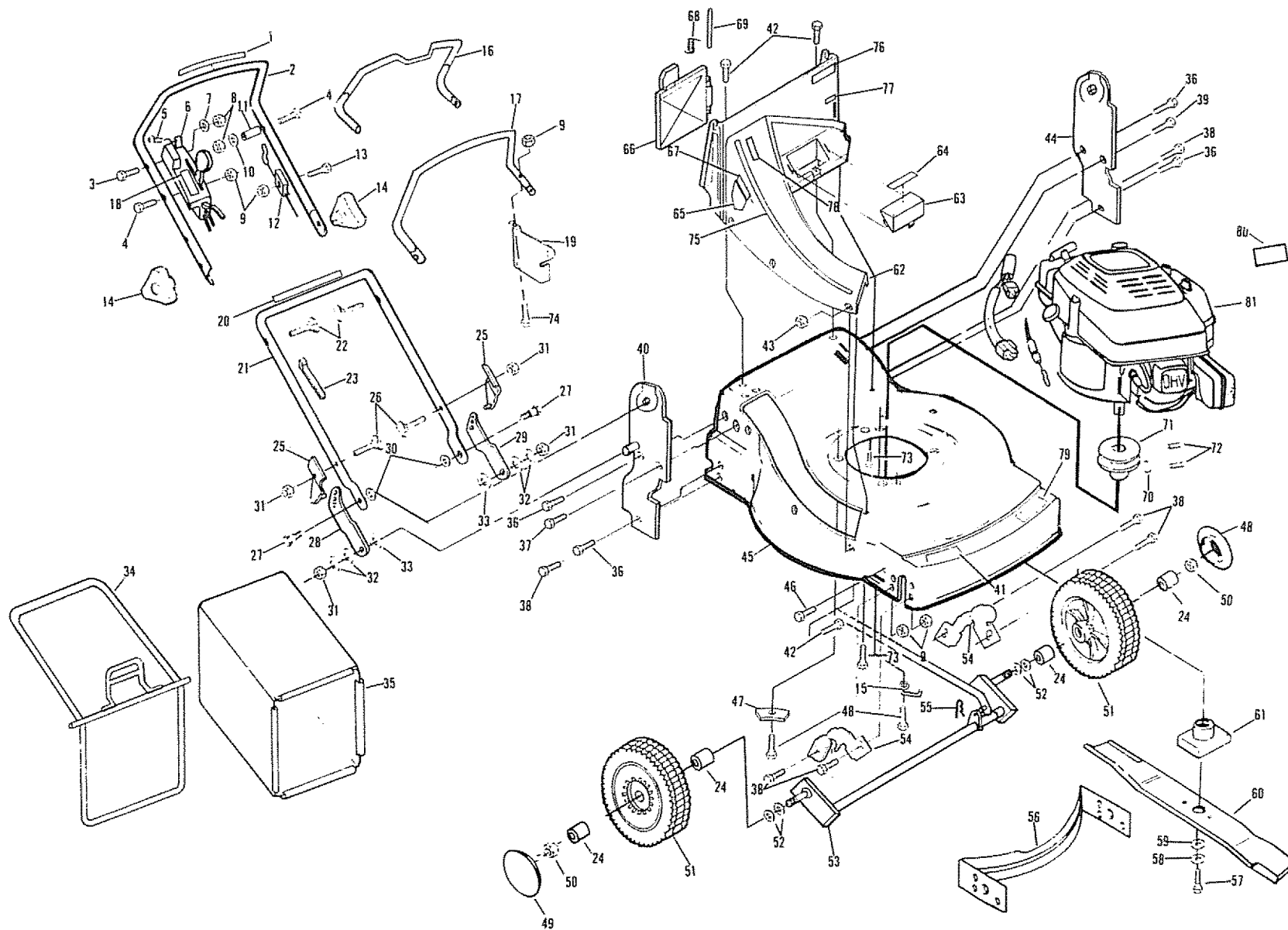
## LUBRICATION CHART

- ① SAE 30 MOTOR OIL (10W 30)
- ② SPRAY LUBRICANT



# CRAFTSMAN 22" ROTARY LAWN MOWER MODEL NUMBER 917.374711

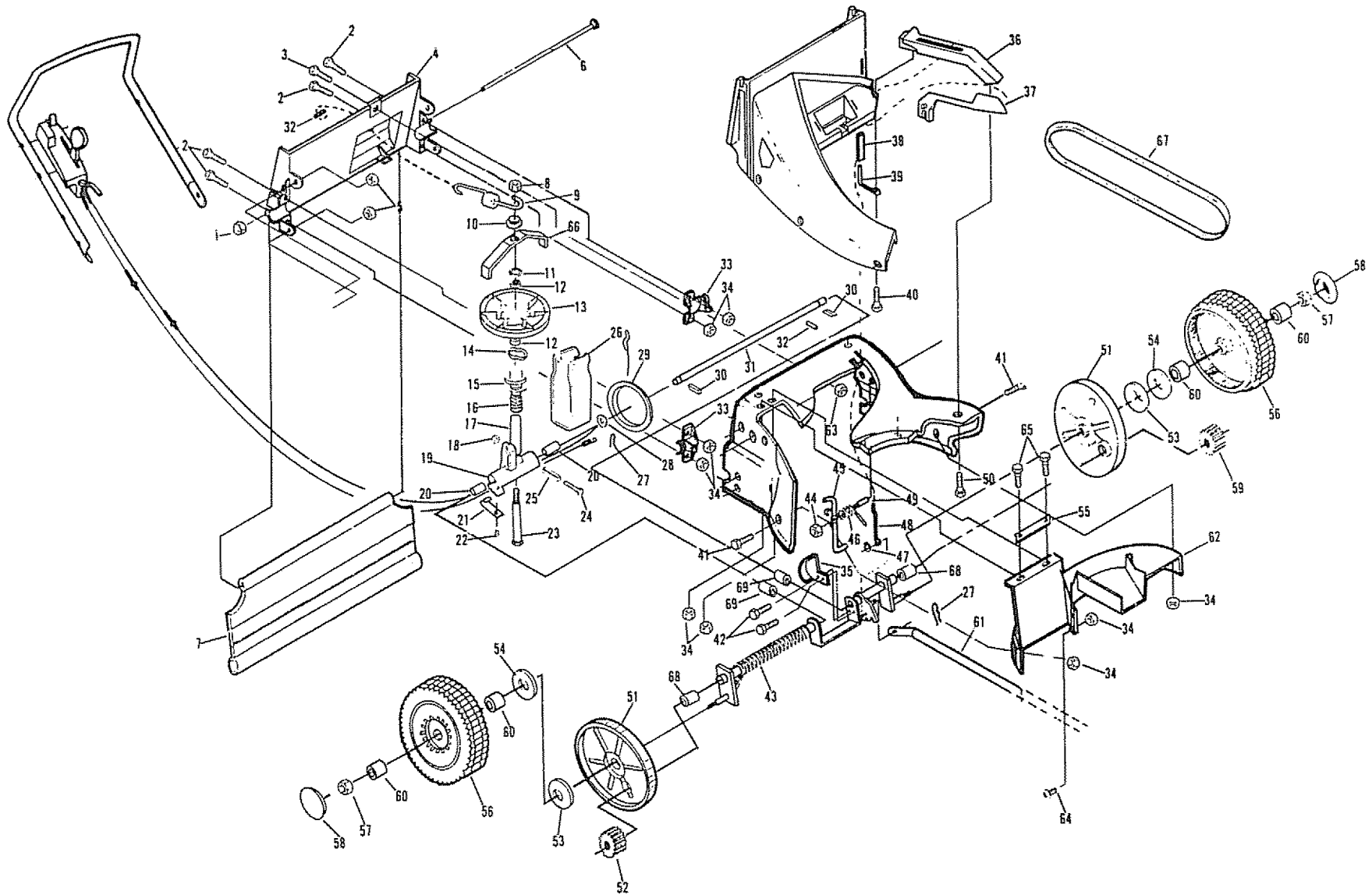
# REPAIR PARTS Rev. 1



Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1	751150	Drive Bar Decal	45	48220	Lawn Mower Housing (Incl. Ref. #56)
2	750629	Upper Handle	46	61528	Flat Head Machine Screw 1/4-20 x 3/4
3	851185	Machine Screw 1/4-20 x 2 3/4	47	851219	Engine Washer
4	86055	Machine Screw 1/4-20 x 2 1/4	48	850998	Hex Head Rolling Screw 3/8-16 x 1 1/8
5	751584	Screw 6-20 x 3/8	49	800545	Hubcap
6	751052	Drive/Speed Control Cable Assembly W/Key Switch (See page 30)	50	83923	Locknut 3/18-16
7	751782	Spacer	51	751147	Wheel & Tire Assembly 8.0 x 2.0
8	751152	Locknut 1/4-20	52	57143	Washer
9	STD541425	Locknut 1/4-20	53	750827	Front Torque Assembly
10	751625	Spacer	54	750838	Torque Tube Bushing
11	751385	Spacer	55	STD560607	Cotter Key
12	751665	Engine Zone Control Cable	56	751793	Front Baffle
13	STD522515	Hex Head Bolt 1/4-20 x 1 1/2	57	851084	Hex Head Screw 3/8-24 x 1 3/8 (Grd. 8)
14	87692	Handle Knob	58	850263	Helical Lockwasher 3/8
15	851000	Belt Snubber	59	851074	Hardened Washer
16	751040	Drive Control Bar	60	850973	22" Blade
17	751608	Control Bar	61	851514	Blade Adapter
18	751265	Speed Control Decal	62	750694	Hi-Vac Tunnel
19	751801	Cable Pull	63	750700	Battery Cover
20	751304	Instruction Decal (Engine)	64	751116	Battery Cover Decal
21	750580	Lower Handle	65	85463	Danger Decal
22	58714	Handle Bolt 5/16-18 x 1 3/4	66	750696	Rear Door
23	66426	Wire Tie	67	751375	Door Decal
24	751068	Wheel Bearing (2 each wheel)	68	750783	Spring (Left)
25	800445	Handle Bracket Adjusting Assembly	69	750893	Hinge Rod
26	752028	Tube Bolt	70	87677	Hi-Pro Key #HP-505
27	750735	Shoulder Bolt	71	85543	Engine Pulley
28	800444	Handle Link (Right)	72	STD502502	Set Screw 1/4-20 x 5/16
29	800443	Handle Link (Left)	73	751155	Screw 8-16 x 1
30	STD551037	Washer	74	62509	Truss Head Screw 1/4-20 x 1
31	STD541431	Locknut 5/16-18	75	751336	Tunnel Stripe Decal
32	800447	Washer	76	751338	"Shift On The Fly" Decal
33	800469	Spacer	77	751339	Quick 7" Decal
34	751866	Catcher Frame	78	751337	Vac Tac Decal
35	750941	Grass Bag Assembly	79	751340	Housing Decal
36	STD523108	Hex Head Bolt 5/16-18 x 7/8	80	750564	Engine - Craftsman (Source 143.) Model No. 143.404112 (See pgs. 26-29)
37	82678	Hex Head Bolt 5/16-18 x 1 3/8		751900	Owner's Manual
38	STD512505	Hex Head Machine Screw 1/4-20 x 1/2			
39	STD523117	Hex Head Bolt 5/16-18 x 1 3/4			
40	750721	Handle Bracket Assembly (Right)			
41	751302	Spec Decal			
42	751872	Truss Head Screw 1/4-20 x 1/2			
43	751152	Locknut 1/4-20			
44	750718	Handle Bracket Assembly (Left)			

# CRAFTSMAN 22" ROTARY LAWN MOWER MODEL NUMBER 917.374711

## REPAIR PARTS Rev. 1





CRAFTSMAN 22" ROTARY LAWN MOWER MODEL NUMBER 917.374711

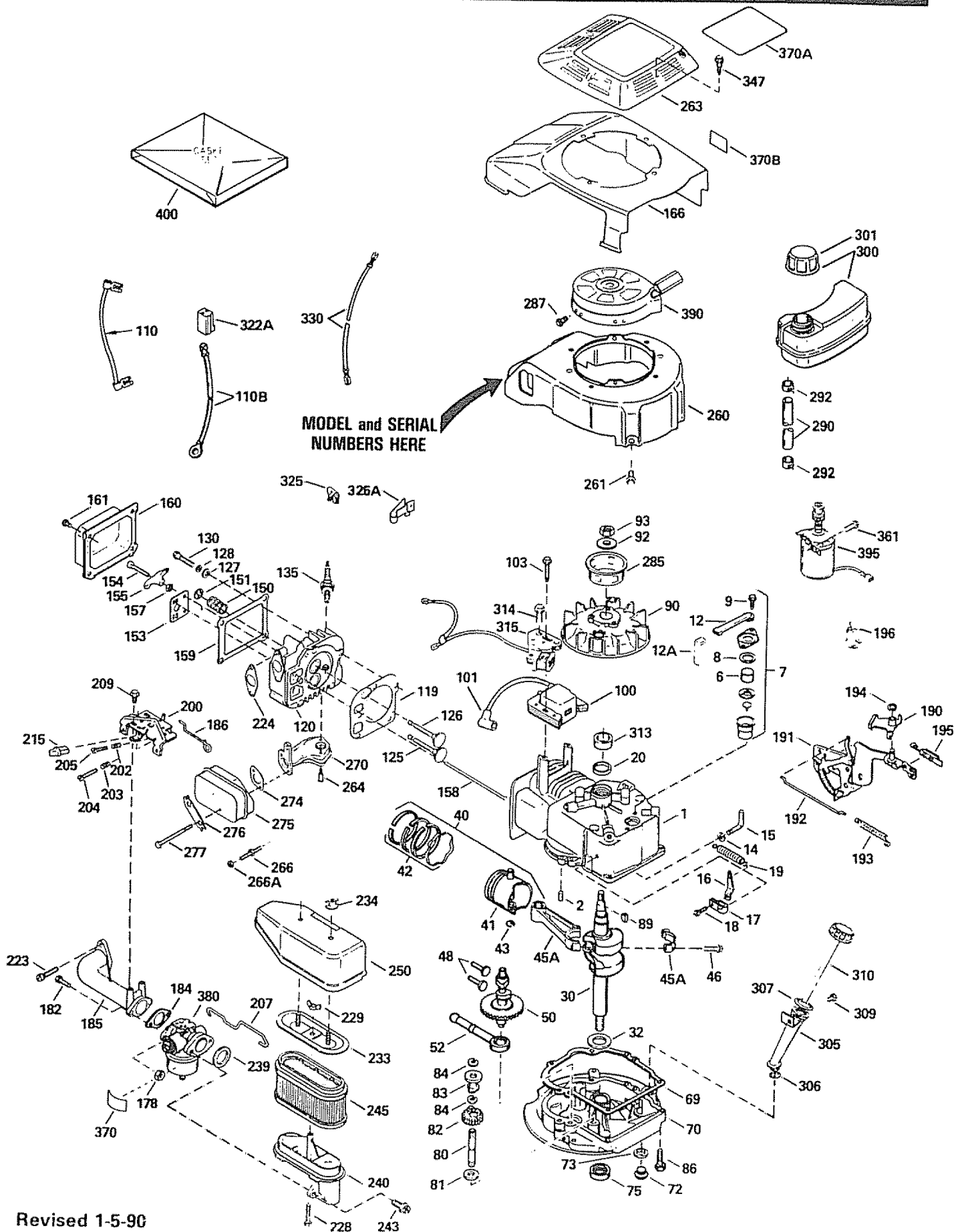
REPAIR PARTS

Rev. 1

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1	751818	Speed Nut	37	750698	Single Point Lever
2	STD522507	Hex Head Bolt 1/4-20 x 3/4	38	750993	Height Indicator
3	86974	Hex Washer Head Screw 10-24 x 7/16	39	750998	Slide Indicator
4	750693	Back Plate	40	751155	Screw 8-16 x 1
5	STD541431	Locknut 5/16-18	41	STD532505	Carriage Bolt 1/4-20 x 1/4
6	88664	Deflector Rod	42	54583	Hex Tapping Screw 1/4-20 x 1/2
7	750898	Rear Deflector	43	751706	Rear Torque Assembly
8	750253	Locknut 5/16-18	44	751153	Locknut 5/16-18
9	751888	Drive Spring	45	750708	Engagement Linkage
10	750892	Spacer	46	750995	Torsion Spring
11	STD582062	Retaining Ring	47	751138	Retaining Ring
12	750686	Ball Bearing	48	750994	Link Indicator
13	750684	Pulley	49	750848	Spacer
14	751659	Wave Spring Washer	50	751154	Screw 8-16 x 5/8
15	750680	Stand-Off	51	750734	Dust Cover
16	750834	Compression Spring	52	750818	Drive Pinion (Right)
17	750679	Oilite Bearing	53	751658	Wave Spring Washer
18	751071	Locknut 6-32	54	67725	Washer
19	750681	Drive Housing	55	751617	Baffle Stiffner
20	751232	Bearing	56	751069	Wheel & Tire Assembly 8.0 x 2.0 (Incl. Ref. #55)
21	751133	Clamp	57	83923	Locknut 3/18-16
22	84026	Hex Thread Screw 10-24 x 1/2	58	800545	Hubcap
23	111420X	Bolt 5/16-18 x 3 1/4	59	750819	Drive Pinion (Left)
24	751070	Hex Washer Head Machine Screw 6-32	60	751068	Wheel Bearing (2 each wheel)
25	STD572515	Spring Pin	61	750801	Height Tube
26	750732	Rocker Arm	62	750695	Hi-Vac Baffle
27	STD560607	Cotter Key	63	74189	Locknut 10-24
28	52160	Washer	64	87870	Truss Head Screw 1/4-20 x 5/8
29	750688	Friction Wheel Assembly	65	751872	Truss Head Screw 1/4-20 x 1/2
30	850018	Drive Pawl	66	751899	Belt Keeper
31	48219	Drive Shaft Kit (Incl. Ref. #20)	67	750992	Drive Belt
32	88028	Roll Pin	68	88060	Bearing (Driveshaft)
33	750699	Pivot Cap	69	751241	Flange Bearing - Nylon
34	88349	Locknut 1/4-20			
35	751580	Hi-Vac Shield			
36	750829	Hi-Vac Handle			

# CRAFTSMAN 4-CYCLE ENGINE

MODEL 143.404112



Revised 1-5-90

# CRAFTSMAN 4-CYCLE ENGINE

MODEL 143.404112

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1	35805	Cylinder Assy. (Incl. Nos. 2 & 20)	127	650691	Washer, Flat
2	26727	Pin, Dowel	128	650690	Washer, Belleville
6	33734	Element, Breather	130	650912	Screw, Hex washer hd, 5/16-18 x 1-1/2
7	34214A	Breather Assy. (Incl. Nos. 6, 8, 9, 12 & 12A)	135	34645	Spark Plug, Resistor (Champion RN-4C or equivalent)
8	*33735	Gasket, Breather	150	31672	Spring, Valve
9	30200	Screw, Hex washer hd self-tap Sems, 10-24 x 9/16	151	31673	Cap, Valve spring keeper
12	33886	Tube, Breather	153	35623	Guide, Push rod
12A	34695	Elbow, Breather tube	154	650913	Stud, Rocker arm
14	28277	Washer, Flat	155	35624	Arm, Rocker
15	30589	Rod, Governor (Incl. No. 14)	157	650914	Nut, Hex jam
16	32651	Lever, Governor	158	35625	Rod, Push
17	31335	Clamp, Governor lever	159	*35626	Gasket, Rocker arm cover
18	650548	Screw, Hex washer hd, 8-32 x 5/16	160	35718	Cover, Rocker arm
19	33578	Spring, Extension	161	30063	Screw, Hex washer hd Sems, 1/4-20 x 1/2
20	32600	Seal, Oil	166	35820	Shroud, Assy
30	35816	Crankshaft	178	29752	Nut & Lockwasher, 1/4-28
32	32323	Washer, Thrust	182	6201	Screw, Hex hd, 1/4-28 x 7/8
40	35544	Piston, Pin & Ring Assy. (Std.) (Incl. Nos. 41, 42, & 43)	184	*26756	Gasket, Carburetor
40	35545	Piston, Pin & Ring Assy. (.010 over size) (Incl. Nos. 41, 42, & 43)	185	35635	Pipe, Intake
40	35546	Piston, Pin & Ring Assy. (.020 over-size) (Incl. Nos. 41, 42, & 43)	186	34358	Link, Governor spring
41	35541	Piston & Pin Assy. (Std.) (Incl. No. 43)	190	34968	Lever, Brake
41	35542	Piston & Pin Assy. (.010 oversize) (Incl. Nos. 43)	191	35248	Bracket, S E Brake (Incl. No. 196)
41	35543	Piston & Pin Assy. (.020 oversize) (Incl. No. 43)	192	34966	Link, Control
42	35549	Ring Set, Piston (Std.)	193	34965	Spring, Extension
42	35548	Ring Set, Piston (.010 oversize)	194	32309	Ring, Retaining
42	35599	Ring Set, Piston (.020 oversize)	195	610973	Terminal Assy.
43	20381	Ring, Piston pin retaining	196	35035	Switch, Assy
45A	32875	Rod Assy; connecting (Incl. No. 46)	200	33205A	Bracket, Assy. Control (Incl. Nos. 202 thru 205)
46	32610A	Bolt, Connecting rod	202	33802	Spring, Compression
48	35616	Valve, Lifter	203	31342	Spring, Compression
50	33553	Camshaft (Mech. Compression Release)	204	650549	Screw, Fil hd, 5-40 x 7/16
52	29914	Pump Assy, Oil	205	650777	Screw, Fil hd, 6-32 x 21/32
69	*35261	Gasket, Mounting flange	207	35364	Link, Throttle
70	35810	Flange, Mounting (Incl. Nos. 72, 73, 75 & 80)	209	30200	Screw, Hex washer hd self-tap Sems, 10-24 x 9/16
72	30572	Plug, Oil drain (Incl. No. 73)	215	35511	Knob, Control
73	*28833	Gasket, Drain plug (not necessary with plastic drain plug)	223	650451	Screw, Hex hd Sems. 1/4-20 x 1
75	27897	Seal, Oil	224	*35629	Gasket, Intake pipe
80	30574	Shaft, Governor	228	650934	Stud, Air cleaner
81	35479	Washer, Flat	229	650935	Nut, Special wing
82	30591	Gear Assy., Governor (Incl. No. 81)	233	35818	Bracket, Air cleaner
83	30588A	Spool, Governor	234	650933	Nut, Special wing. 1/4 - 20
84	29193	Ring, Retaining	239	*35848	Gasket, Air cleaner
86	650488	Screw, Hex hd Sems, 1/4-20 x 1-1/4	240	35849	Body, Air cleaner
89	611004	Key, Flywheel	243	650937	Screw, Hex washer hd shoulder, 10-32 x 43/64
90	611044	Flywheel	245	35850	Filter, Air cleaner (paper)
92	650815	Washer, Belleville	250	35823	Cover, Air cleaner
93	650816	Nut, Flywheel	260	35817	Housing, Blower
100	34443A	Solid State Assy.	261	650831	Screw, Hex washer hd, Powerlok thread, 1/4-20 x 15/32
101	610118	Cover, Spark Plug	263	35821	Grill, Starter
103	650814	Screw, Torx Hex washer hd Sems, 10-24 x 1	264	650918	Screw, Torx-T30, Flat hd, shoulder. 1/4-20 x 1-7/32
110	34961	Wire, Ground	266	650917	Stud, Manifold
110B	34970	Wire, Ground	266A	29752	Nut & Lockwasher. 1/4-28
119	*35806	Gasket, Cylinder head			
120	35630	Head, Cylinder			
125	35621	Valve, Exhaust (Std.) (Incl. No. 151)			
125	35622	Valve, Exhaust (1/32" oversize) (Incl. No. 151)			
126	35619	Valve, Intake (Std) (Incl. No. 151)			
126	35620	Valve, Intake (1/32" oversize) (Incl. No. 151)			

\*Indicates Parts Included in Gasket Set, Ref No. 400

# CRAFTSMAN 4-CYCLE ENGINE

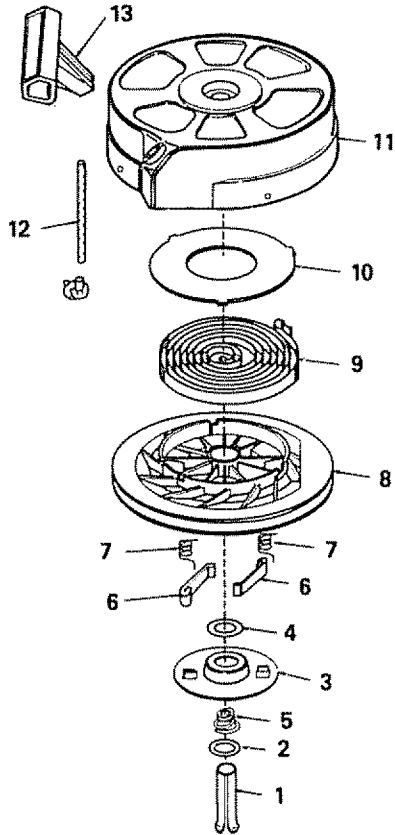
MODEL 143.404112

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
270	35720	Manifold Assy, Exhaust	325	29443	Clip, Wire
274	*35865	Gasket, Exhaust manifold	325A	35249	Retainer, Wire
275	35851	Muffler Assy	330	35853	Wire, Ground
276	35852	Plate, Lock	347	650898	Screw, Hex washer hd., shoulder, 10-32 x 27/32
277	650729	Screw, Hex hd., 5/16-18 x 3-3/16	361	650831	Screw, Hex washer hd., Powerlok thread, 1/4-20 x 15/32
285	35000	Hub, Starter	370	35756	Decal, Primer
287	650884	Screw, Hex washer hd., 8-32 x 1/2	370A	35840	Decal, Name
290	29774	Line, Fuel	370B	35847	Decal, Instruction
292	26460	Clamp, Fuel line	380	632577	Carburetor (Incl. No. 184)
300	35586	Tank, Fuel (Incl. Nos. 292 & 301)	390	590637	Starter, Rewind
301	35355	Cap, Fuel	395	34934	Motor, Electric starter (12 volt)
305	35819	Tube, Oil fill	400	35633A	Gasket Set (Incl. items marked*)
306	*34265	Gasket, Fill tube			RPM Speed Settings: (Craftsman Only) Low Speed: 2500; High Speed: 3000
307	35499	"O" Ring			*Indicates Parts Included in Gasket Set, Ref No. 400
309	650562	Screw, Hex washer hd. shakeproof, 10-32 x 1/2			
310	35822	Dipstick, Oil fill			
313	34080	Spacer, Flywheel			
314	650767	Screw, Hex washer hd. sems, taptite, 8-36 x 5/8			
315	34990	Coil, Alternator			
322A	35013	Connector			

## CARBURETOR NO. 632577

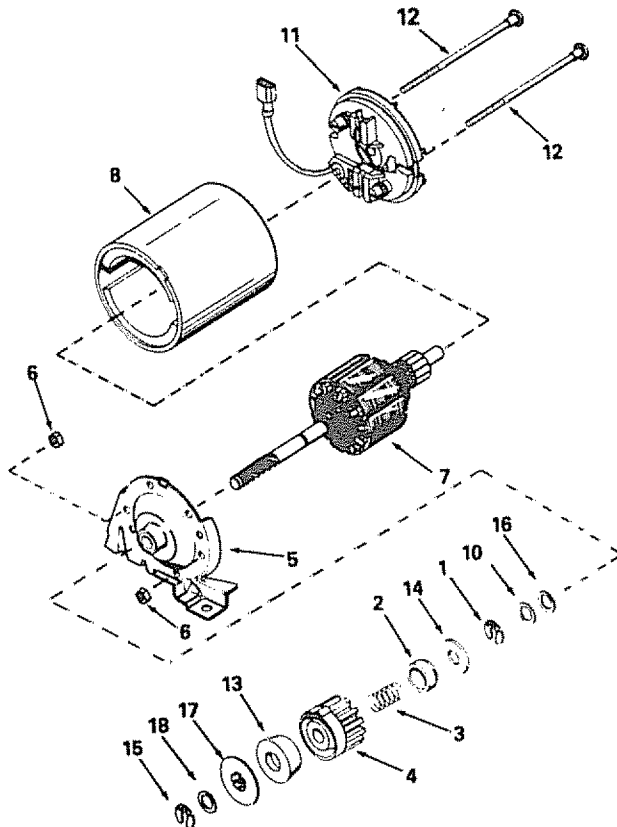
Part No.	Ref. No.	Part Name
-	632577	Carburetor
1	631615	Shaft & Lever Assy., Throttle
3	632504	Shutter, Throttle
4	650506	Screw, Throttle shutter
5	631767	Spring, Throttle return
6	631971	Seal, Dust
7	631184	Washer, Flat
9	36045	Primer Assy.
11	631027	Plug, Welch
12	631021	Inlet Needle, Seat & Clip Assy. (Incl. No. 13)
13	631022	Clip, Inlet needle
14	632019	Float, Carburetor
15	631024	Shaft, Float
16	631867	Bowl, Float
21	27110	Gasket, Bowl-to-body
22	632578	Nut, Float Bowl
25	631028	Gasket, Bowl-to-body
26	631807	Fitting, Fuel inlet

**REWIND STARTER NO. 590637**



Ref. No.	Part No.	Part Name
1	590637	Starter, Rewind
	590599A	Pin, Spring (Incl. No. 4)
2	590600	Washer
3	590615	Retainer
4	590601	Washer
5	590598	Spring, Brake
6	590616	Dog, Starter
7	590617	Spring, Dog
8	590618	Pulley
9	590619	Spring, Rewind
10	590620	Cover, Spring
11	590638	Housing Assy., Starter
12	590535	Rope, Starter (Length 98" & 9/64" dia.)
13	590452	Handle, Starter

**ELECTRIC STARTER MOTOR NO. 34934**



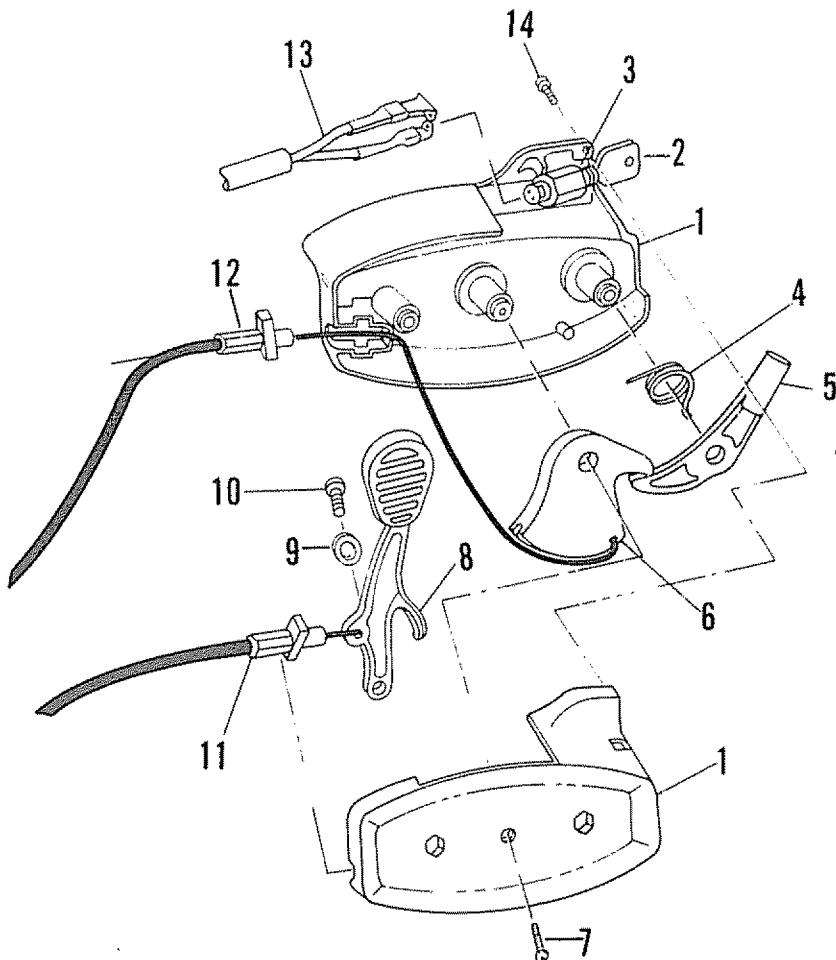
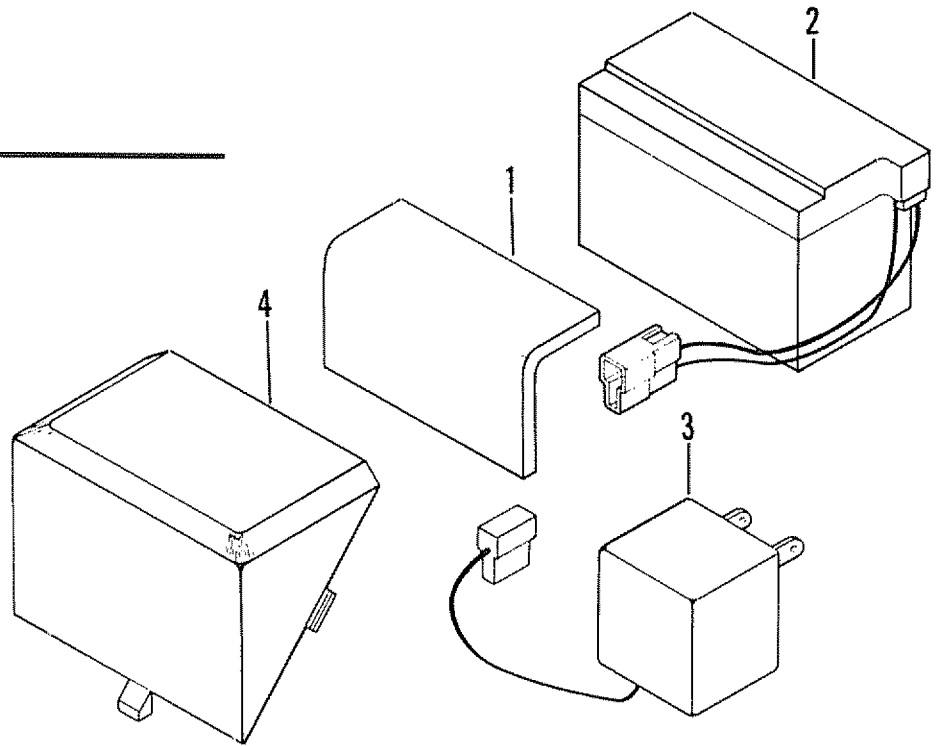
Ref. No.	Part No.	Part Name
	34934	Motor, Electric Starter
1	34955	Ring, Retainer
2	34950	Retainer, Spring
3	34954	Spring
4	34949A	Gear
5	34943	Cap Assy., Drive end
6	33450	Nut, Lock
7	34944	Armature
8	34945	Housing Assy.
10	590500	Washer, Thrust
11	34942	Cap Assy., Commutator end (Incl. brushes, which cannot be serviced separately)
12	34947	Bolt, 10-32 x 3-3/16
13	34946	Driver, Pinion
14	34951	Washer, Cup
15	34952	Ring, Retainer
16	34948	Washer
17	34953	Nut, Drive
18	590608	Washer, Dust

**22" CRAFTSMAN ROTARY LAWN MOWER  
MODEL NUMBER 917.374711**

**REPAIR PARTS**

**BATTERY**

Ref. No.	Part No.	Part Name
1	86649	Battery Pad
2	48221	Battery Kit
3	86342	Battery Charger
4	750700	Battery Cover



**DRIVE/SPEED CONTROL CABLE  
W/KEY SWITCH**

Ref. No.	Part No.	Part Name
1	48236	Drive/Speed Control Head Kit (Incl. Ref #27)
2	109310X	Replacement Key
3	751850	Electric Start Key Switch
4	751834	Torsion Spring
5	751828	Drive Actuator
6	751829	Drive Pulley
7	751837	Plastite Screw #8 x 7/8
8	751830	Speed Lever
9	751840	Washer
10	751831	Plastite Screw #4 x 5/8
11	751846	Speed Cable Assembly
12	751845	Drive Cable Assembly
13	751849	Wire Harness
14	751844	Plastite Screw #4-20 x 5/8

# TROUBLE SHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
<b>DOES NOT START</b>	<ol style="list-style-type: none"> <li>1. Dirty air filter.</li> <li>2. Out of gasoline.</li> <li>3. Stale gasoline.</li> <li>4. Spark plug wire is disconnected from the spark plug.</li> <li>5. Bad spark plug.</li> <li>6. Water in gasoline.</li> <li>7. Loose blade or broken blade adapter.</li> <li>8. Engine control bar in released position.</li> <li>9. Engine control bar defective.</li> <li>10. Weak battery.</li> <li>11. Disconnected battery connector.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace air filter.</li> <li>2. Fill gasoline tank.</li> <li>3. Drain gas tank and refill with fresh gasoline.</li> <li>4. Connect wire to spark plug.</li> <li>5. Replace spark plug.</li> <li>6. Drain tank and refill with fresh, clean gasoline.</li> <li>7. Tighten blade bolt and/or replace blade adapter.</li> <li>8. Depress engine control bar.</li> <li>9. Replace engine control bar.</li> <li>10. Charge battery.</li> <li>11. Connect battery to engine.</li> </ol>
<b>LOSS OF POWER</b>	<ol style="list-style-type: none"> <li>1. Rear of lawn mower housing/blade dragging in heavy grass.</li> <li>2. Cutting too much grass.</li> <li>3. Dirty air filter.</li> <li>4. Build-up of grass, leaves, and trash under lawn mower housing.</li> <li>5. Ground speed too fast.</li> <li>6. Too much oil in engine.</li> </ol>	<ol style="list-style-type: none"> <li>1. Raise lawn mower housing one (1) setting higher.</li> <li>2. Set in HIGHER CUT position.</li> <li>3. Clean or replace air filter.</li> <li>4. Disconnect spark plug wire and clean underside of lawn mower housing.</li> <li>5. Cut at slower ground speed.</li> <li>6. Check engine oil level.</li> </ol>
<b>POOR CUT-UNEVEN</b>	<ol style="list-style-type: none"> <li>1. Worn, bent or loose blade.</li> <li>2. Low engine speed.</li> <li>3. Build-up of grass, leaves and trash under lawn mower housing.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade. Tighten blade bolt.</li> <li>2. Set engine speed control on HIGH or FAST.</li> <li>3. Disconnect spark plug wire &amp; clean underside of lawn mower housing.</li> </ol>
<b>TOO MUCH VIBRATION</b>	<ol style="list-style-type: none"> <li>1. Worn or bent blade.</li> <li>2. Loose blade.</li> <li>3. Bent engine crankshaft.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade.</li> <li>2. Tighten blade bolt.</li> <li>3. Contact Sears Service Department.</li> </ol>
<b>STARTER ROPE HARD TO PULL</b>	<ol style="list-style-type: none"> <li>1. Flywheel brake is on when engine control bar is released.</li> <li>2. Bent engine crankshaft.</li> <li>3. Blade adapter sheared.</li> <li>4. Blade dragging in grass.</li> </ol>	<ol style="list-style-type: none"> <li>1. Depress engine control bar to upper handle before pulling on starter rope.</li> <li>2. Contact Sears Service Department.</li> <li>3. Replace blade adapter.</li> <li>4. Get over low grass and/or hard surface to start engine.</li> </ol>
<b>CATCHER NOT FILLING COMPLETELY (IF APPLICABLE)</b>	<ol style="list-style-type: none"> <li>1. Cutting height too low.</li> <li>2. Lift on blade worn off.</li> <li>3. Catcher bag dirty, poor air venting.</li> <li>4. Low engine speed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Raise cutting height.</li> <li>2. Replace blade.</li> <li>3. Clean/replace catcher bag. (If optional grass catcher is being used).</li> <li>4. Set engine speed control on HIGH or FAST.</li> </ol>
<b>HARD TO PUSH</b>	<ol style="list-style-type: none"> <li>1. High grass or cutting height too low.</li> <li>2. Rear of lawn mower housing/blade dragging in heavy grass.</li> <li>3. Grass catcher too full.</li> <li>4. Handle height position not right for you.</li> <li>5. Drive pawls hanging-up.</li> </ol>	<ol style="list-style-type: none"> <li>1. Raise cutting height.</li> <li>2. Raise lawn mower housing one (1) setting higher.</li> <li>3. Empty grass catcher.</li> <li>4. Adjust handle height to suit.</li> <li>5. Clean drive pawls and lubricate.</li> </ol>
<b>LOSS OF DRIVE</b>	<ol style="list-style-type: none"> <li>1. Drive not fully engaged.</li> <li>2. Belt wear.</li> <li>3. Belt off of pulleys.</li> <li>4. Lost spring tension retainer.</li> <li>5. Friction wheel worn.</li> <li>6. Friction wheel excessively wet.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check and adjust drive control.</li> <li>2. Check/replace drive belt.</li> <li>3. Check/reinstall drive belt.</li> <li>4. Replace spring retainer.</li> <li>5. Check/replace friction wheel.</li> <li>6. Allow wheel to dry before use.</li> </ol>

**SEARS**

**OWNER'S  
MANUAL**

**MODEL NO.  
917.374711**

**HOW TO ORDER  
REPAIR PARTS**

**CRAFTSMAN®**

**5.0 HORSE POWER  
22" REAR BAGGER  
ELECTRIC KEY START  
POWER PROPELLED  
ROTARY LAWN MOWER**

Each Lawn Mower has its own model number. Each engine has its own model number.

The model number for your lawn mower will be found on a decal attached to the rear of the lawn mower housing.

The model number for the engine will be found on the Blower Housing of the engine adjacent to the spark plug.

All parts listed herein may be ordered through Sears, Roebuck and Co. Service Centers and most Retail Stores.

**WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:**

- \* PRODUCT - "ROTARY LAWN MOWER"
- \* MODEL NUMBER - 917.374711
- \* ENGINE - CRAFTSMAN  
MODEL NO. 143.404112
- \* PART NUMBER
- \* PART DESCRIPTION

Your Sears merchandise has added value when you consider that Sears has service units nationwide staffed with Sears trained technicians...professional technicians specifically trained on Sears products, having the parts, tools and the equipment to insure that we meet our pledge to you, we service what we sell.

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