

SEARS

**OWNER'S
MANUAL**

**MODEL NO.
247.384260**

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



CRAFTSMAN®

**4 HORSEPOWER
4 CYCLE ENGINE
20" ROTARY
MULCHING MOWER**

**Assembly
Operation
Maintenance
Service and Adjustment
Repair Parts**

SEARS, ROEBUCK AND CO., Chicago, IL 60684 U.S.A.

IMPORTANT

RULES FOR SAFE OPERATION



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR LAWN MOWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY WHEN YOU SEE THIS SYMBOL—



HEED ITS WARNING.



DANGER:

Your lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.



TRAINING

1. Read this owner's guide carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times. Your unit has been designed to perform one job: to mow grass. Do not use it for any other purpose.
3. Never allow children under 14 years old to operate a power mower. Children 14 years old and over should only operate mower under close parental supervision. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower to help prevent blade contact or thrown object injury. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.



PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area. Plan your mowing pattern to avoid discharge of material toward roads, sidewalks, bystanders and the like.
2. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.
3. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Shirts and pants that cover the arms and legs and steel-toed shoes are recommended. Do not wear loose fitting clothes or jewelry. They can be caught in moving parts. Never operate a unit in bare feet, sandals, or sneakers.
4. Before working with gasoline, extinguish all cigarettes, cigars, pipes and other sources of ignition. Check the fuel level before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or until engine has been allowed to cool for at least two minutes after running. Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions and automatically return to the disengaged position when released.
7. Never attempt to make a wheel or cutting height adjustment while the engine is running.
8. Never operate the mower in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run. Mow only in daylight or in good artificial light.



OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
3. Stop the blade when crossing gravel drives, walks or roads.
4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
7. Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Never cut grass by pulling mower toward you. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
10. Never operate mower without proper guards, plates or other safety protective devices in place.
11. Muffler and engine become hot and can cause a burn. Do not touch.



MAINTENANCE AND STORAGE

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness. Also visually inspect blade for damage (e.g. bent, cracked). Replace with blade which meets original equipment specifications.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the mower with gasoline in the tank or gas containers inside of a building where fumes may reach an open flame or spark (e.g. gas hot water heater). Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves and excessive oil.
5. Check the grass catcher bag frequently for wear or deterioration. Replace a worn or damaged bag immediately. For safety protection, replace only with new bag meeting original equipment specifications.

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	247.384260
SERIAL NUMBER	_____
DATE OF PURCHASE	_____

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A LABEL ATTACHED TO THE REAR OF THE DECK. YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE

PRODUCT SPECIFICATIONS

Horsepower:	4.0
Displacement:	171.9 cc
Fuel Capacity:	48 oz.
Spark Plug (Gap .025 in.):	Champion RJ-19LM (or Equivalent)
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.

WARRANTY

ONE YEAR LIMITED WARRANTY ON CRAFTSMAN LAWN MOWER

For one year 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 mower blades, blade adapters, air cleaners and spark plugs.
- 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 LAWN 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 CO. Department 731CR-W Sears Tower, Chicago, IL 60684

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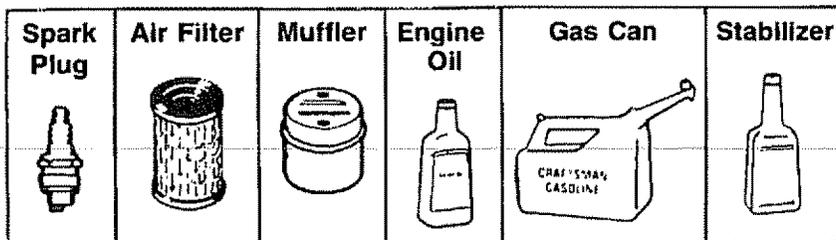
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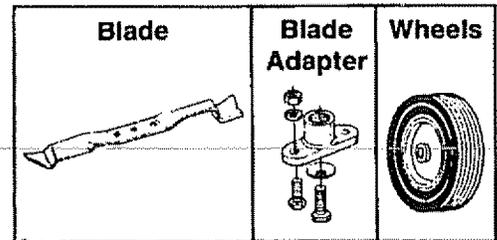
MOWER ACCESSORIES

These accessories were available when the mower was purchased. 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 mower.

ENGINE



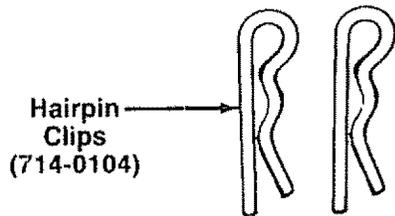
MOWER MAINTENANCE



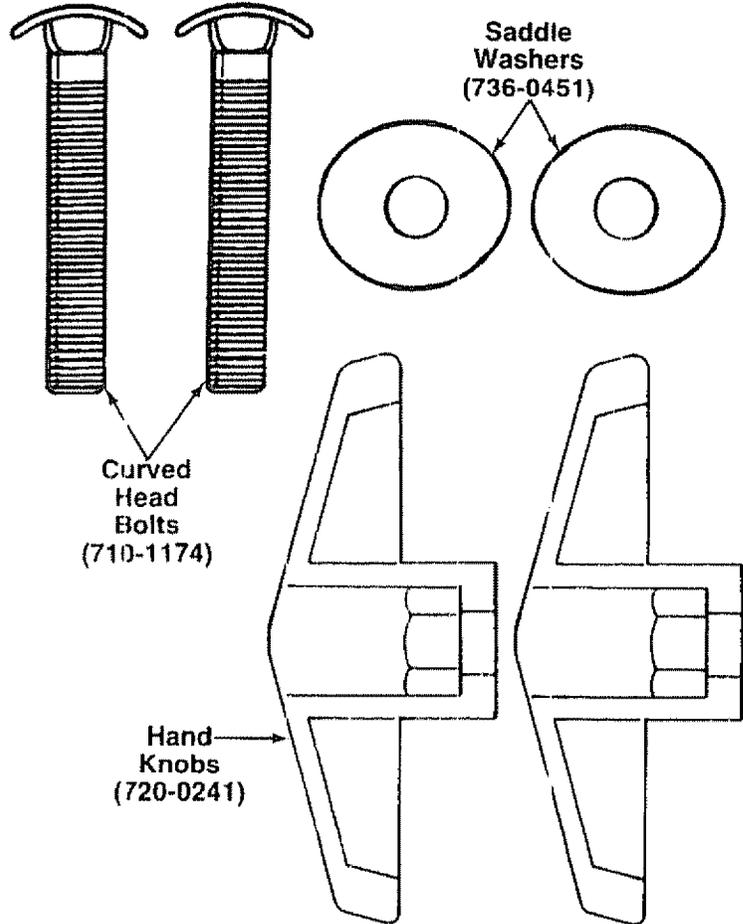
CONTENTS OF HARDWARE PACK

(Hardware pack may contain extra items which are not used on your unit. Part numbers are shown in parentheses.)

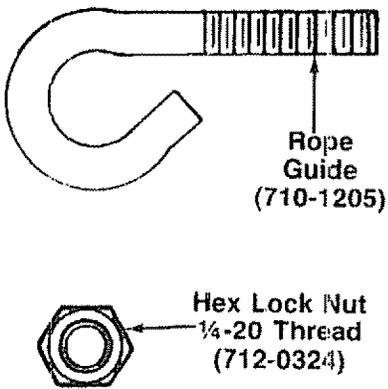
A ATTACHING THE LOWER HANDLE



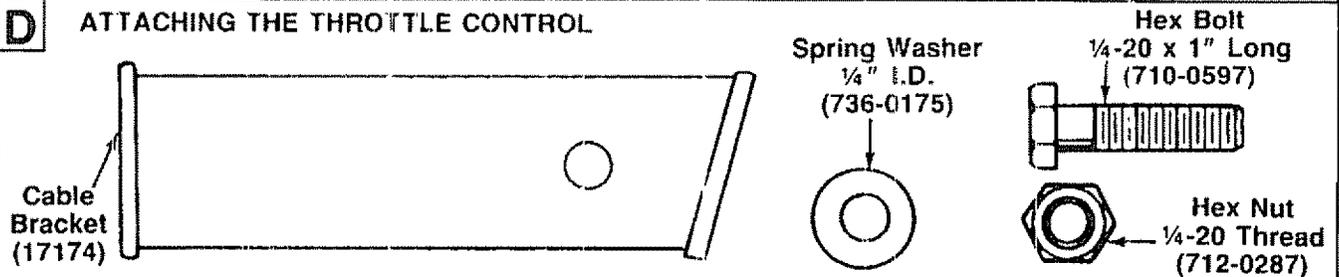
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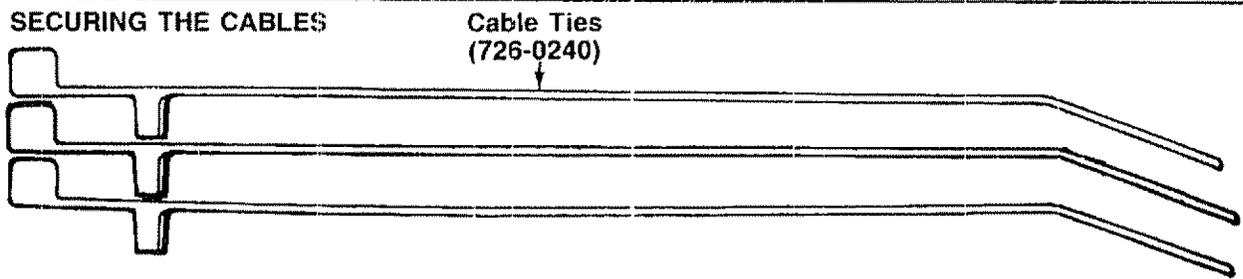
C ATTACHING THE STARTER ROPE



D ATTACHING THE THROTTLE CONTROL



E SECURING THE CABLES



ASSEMBLY INSTRUCTIONS

IMPORTANT: This unit is shipped **WITHOUT GASOLINE or OIL.** After assembly, be certain to service engine with gasoline and oil before operating your mower.

NOTE: Reference to right or left hand side of the mower is observed from the operating position.

Tools Required for Assembly

- (1) Pair of Pliers
- (2) 7/16" Wrenches or Adjustable Wrenches
- (1) Flat Bladed Screwdriver

UNPACKING

- Remove the lawn mower from the carton by opening the top flaps and lifting the unit out. Be careful of the staples. Make certain all parts and literature have been removed from the carton before the carton is discarded.
- Disconnect the spark plug wire from the spark plug and ground against the engine.
- Stretch out control cable and place on the floor. Be careful not to bend or kink the cable at any time during assembly.
- Lay out the contents of the hardware pack according to the illustration on page 5 for identification.

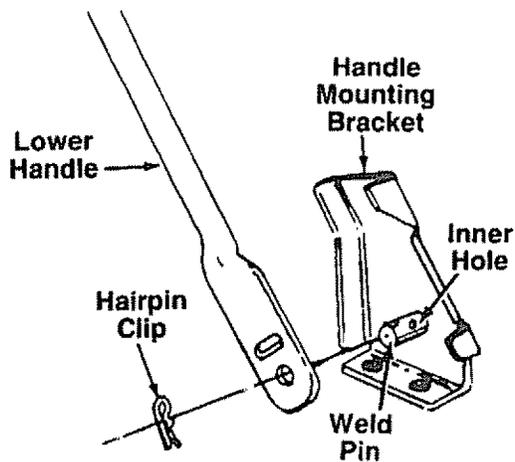


FIGURE 1.

ATTACHING THE LOWER HANDLE (Hardware A)

- Attach the lower handle by placing the bottom holes in the lower handle over the weld pins on the handle mounting brackets extending through the rear of the deck.
 - Using a pair of pliers, squeeze one leg of the lower handle against the handle mounting bracket. Insert the hairpin clip into the **inner hole** in the weld pin.
- ← See figure 1. Repeat on other side.

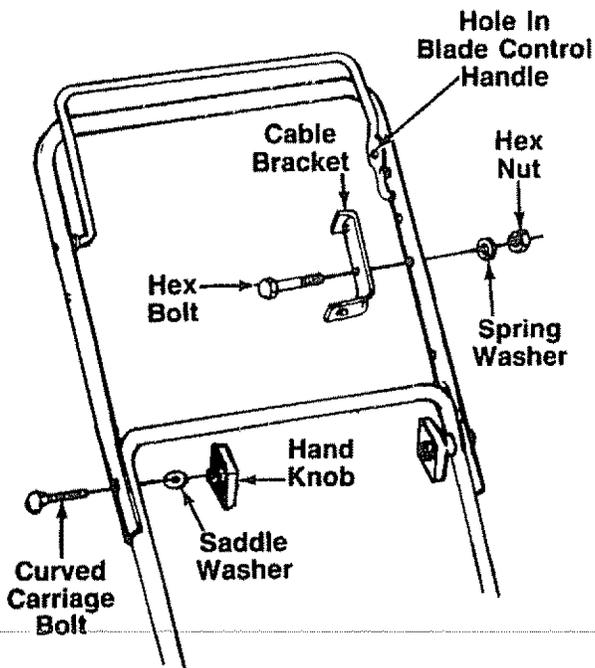


FIGURE 2.

ATTACHING THE UPPER HANDLE (Hardware B)

- Place the upper handle in position over the lower handle. The hole in the side of the blade control handle (attached to the upper handle) must be on the **left side**.
 - Secure the upper handle to lower handle using the curved head bolts, saddle washers and hand knobs as shown in figure 2.
- ←

ATTACHING THE CABLE BRACKET (Hardware D)

- Place cable bracket against the inside of the upper handle (left hand side). The top part of the cable bracket should be just below the blade control handle. See figure 2.
- Place 1/4" hex bolt through cable bracket and handle, from the inside to the outside.
- Secure with spring washer (cupped side against the handle) and hex nut.

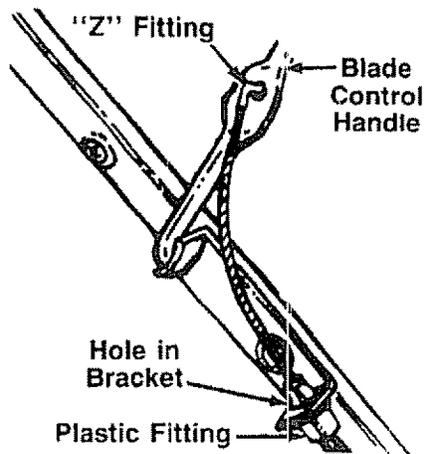


FIGURE 3.

ATTACHING THE BRAKE CABLE

- The brake cable is attached to the engine, and has a "Z" fitting on the loose end. Route the brake cable below the lower handle. Place end of cable through the hole in the bracket as shown in figure 3. Be careful not to bend or kink the cable at any time. Push the plastic fitting until it locks into the hole in the bracket.



WARNING: Brake cable must be assembled as shown for proper blade brake operation.

- Hook the "Z" end of the brake cable into the hole in the blade control handle from the inside to the outside as shown in figure 3.

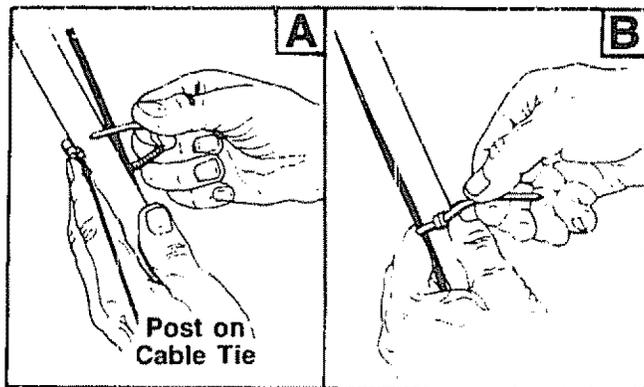


FIGURE 4.

SECURING THE CABLE (Hardware E)

Secure cable to the left side of the handle as follows.



WARNING: When attaching the control cable, the cable must be routed to avoid contact with all sharp edges and hot surfaces to prevent damage to the cable, which will render the control inoperative.

- Insert posts on cable ties into holes provided on the handles, one on the upper handle and two on the lower handle. The holes may be either on the inside or outside of the handles. See figure 4A.
- Secure the cable with the cable ties. See figure 4B.
- Trim excess ends of cable ties.

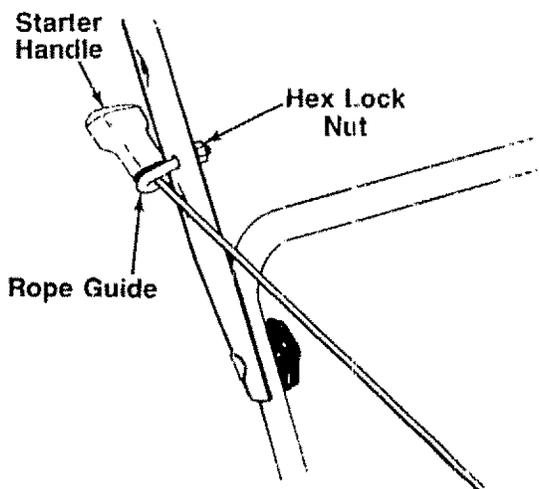


FIGURE 5.

ATTACHING THE STARTER ROPE (Hardware C)

- The starter rope is inside the top of the engine. Additional rope may be wound around the starter handle. If so, unwind the rope from the handle.
- With the spark plug wire disconnected and grounded, depress the blade control handle and pull the rope out of the engine.
- Place the rope guide around the starter handle, so the rope guide bends downward as shown in figure 5. Insert the rope guide into the handle, and secure with hex lock nut.

FINAL ASSEMBLY OF MOWER

- Make certain all nuts and bolts are tightened securely.

OPERATION

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.

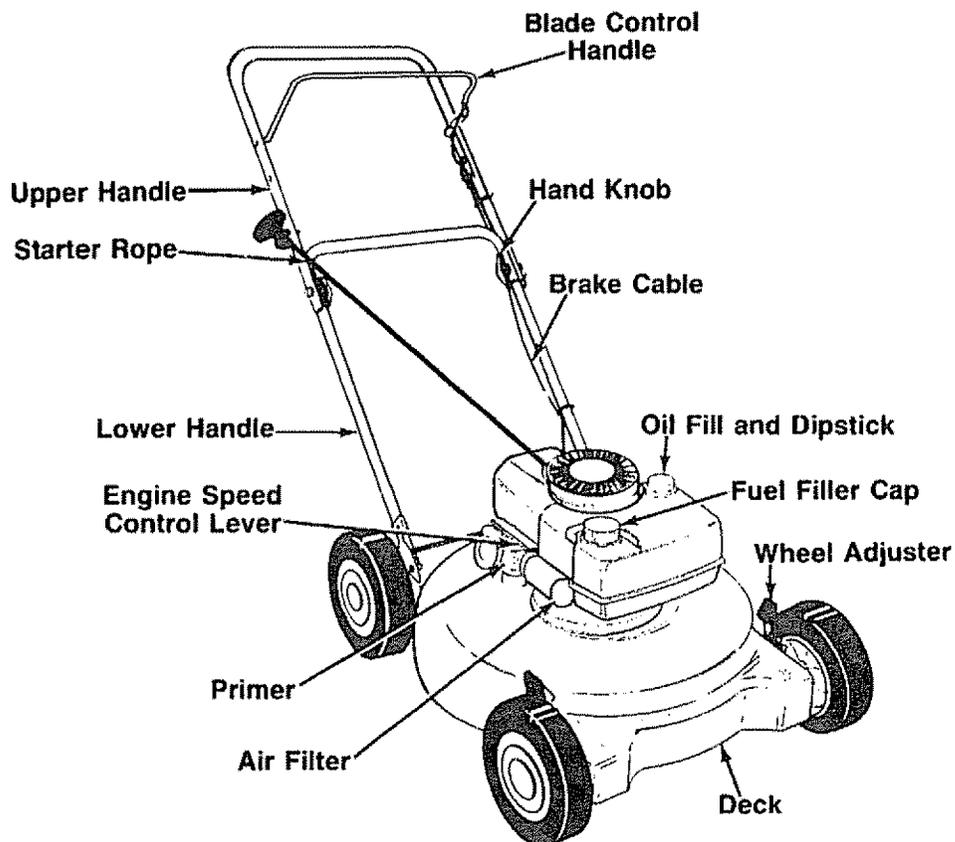


FIGURE 6.

MEETS CPSC SAFETY REQUIREMENTS

Sears Lawn Walk-Behind 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.

BLADE CONTROL HANDLE—must be held down to the handle to start and run the engine. Release to stop the engine.

STARTER ROPE—used for starting the engine.

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

ENGINE SPEED CONTROL LEVER—Permits selection of fast or slow engine speed.

BEFORE USING YOUR LAWN MOWER, AGAIN REFER TO THE "SAFETY RULES" AS SHOWN ON PAGE 2 OF THIS MANUAL. ALWAYS BE CAREFUL.



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

HOW TO USE YOUR MOWER

BLADE CONTROL HANDLE

Your mower has a control handle which requires the operator to be behind the handle to start and run the mower. When the operator releases the control handle the engine will stop and an internal brake helps the blade to stop quickly.

When the operator leaves the operating position to change the cutting height, pick up sticks or other objects in the way, the engine will stop automatically when the control handle is released.

ADJUST CUTTING HEIGHT

- Raise wheels for low cut and lower wheels for high cut.
- Adjust cutting height to suit your requirements. Medium position is best for most lawns.
- To change cutting height, squeeze adjuster lever toward wheel. See figure 7. Move wheel up or down to suit your requirements. Be sure all wheels are in the same setting.

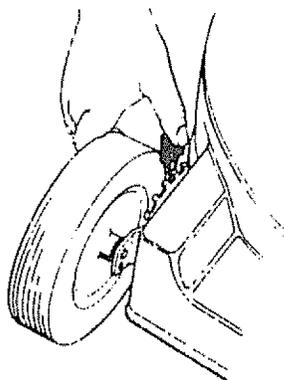


FIGURE 7.

BEFORE STARTING ENGINE

- Place unit so engine is in a level position.
- Fill crankcase with oil using a high quality detergent oil classified "For service SC, SD, SE or SF" such as SAE 30 (SAE 10W-30 is an acceptable substitute) DO NOT USE 10W40 OIL.

Remove oil fill cap and dipstick assembly. Pour oil slowly until oil level is to the FULL mark on dipstick. Crankcase capacity is approximately 1-1/4 pints (20 ounces) DO NOT OVERFILL.

NOTE: Crankcase oil should be changed after first two (2) hours of operation and every twenty-five (25) hours thereafter. Refer to ENGINE LUBRICATION section on page 11.

- Replace oil fill cap and dipstick. Tighten cap securely.
- Fill gas tank with about one (1) quart of clean, fresh, lead-free grade automotive gasoline. Low-lead or regular gasoline is an acceptable substitute. DO

NOT use Ethyl or high octane gasoline. Be certain container is clean and free from rust or foreign particles. Never use gasoline that may be stale from long periods of storage in the container.

CAUTION: 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. Use fresh fuel next season. See STORAGE SECTION for additional information.

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

TO START ENGINE

- Connect spark plug wire to spark plug. Make certain the metal loop or the end of the spark plug wire (inside the rubber boot) is fastened securely over the metal tip on the spark plug. See figure 8.

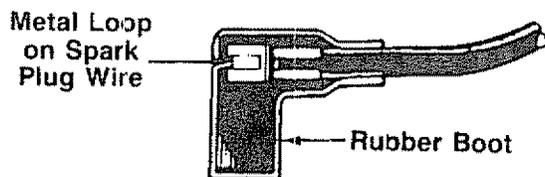


FIGURE 8.

- Press primer button as follows (cold starts only). For each initial start, push primer button five (5) times prior to starter operation. See figure 9. Use sharp pushes, wait between each push. Repeat the above for each starter operation as necessary. Do not use primer for warm engine restarts.
- Set engine speed control to HI speed.

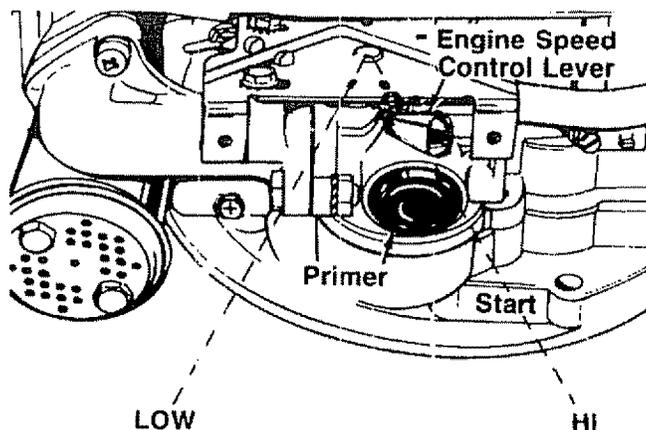


FIGURE 9.

- Hold blade control handle against upper handle. See figure 10. Pull starter handle quickly. Do not allow starter rope to snap back.
- If desired, move engine speed control to LOW for light mowing conditions.

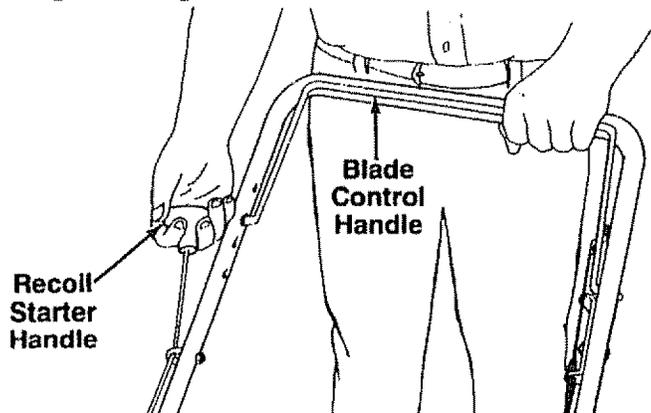


FIGURE 10.

TO STOP ENGINE

Release blade control handle to stop engine. Disconnect the spark plug wire and move it away from the spark plug to prevent accidental starting while equipment is unattended.

MULCHING TIPS

- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings.
- For extremely heavy cutting, reduce the width of cut.
- Under heavy conditions cross cut for additional mulching of surface debris.

MAINTENANCE

GENERAL RECOMMENDATIONS

- 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.
- Follow the Service Recommendation Schedule on page 13.

MOWER

BLADE CARE

Your 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.

TO REMOVE BLADE (See Figure 11):

- Turn mower on its side. Make sure air filter and carburetor are up.
- Use a block of wood between blade and mower deck to prevent blade from turning when bolt is removed. Protect your hands with gloves and/or wrap blade with heavy cloth.
- Remove blade bolt by turning counterclockwise. Use a 9/16" box or open-end wrench.

TO REPLACE BLADE (See Figure 11):

- Put blade adapter on engine crankshaft.
- Fit blade in adapter. Be sure trailing edge of blade is up towards engine.

- Assemble bolts, washers, and nuts in the exact order of removal.
- Use block of wood to hold blade and tighten bolt clockwise. The recommended torque is 35-40 ft. lbs. Torque wrenches are available at most Sears stores and through the catalog.

NOTE: The bolt used to secure the blade to engine is specially heat-treated. Do not substitute (See Repair Parts).



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.

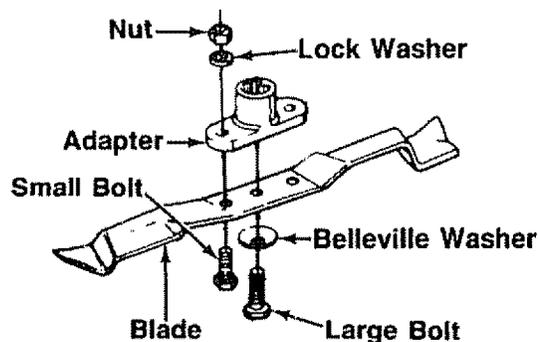


FIGURE 11.

NOTE: We do not recommend sharpening the blade—but if you do, be sure 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 mower.
- Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration when running and eventual damage to mower and 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.

ENGINE

ENGINE LUBRICATION

You must change the oil in the crankcase after the first two (2) hours of operation and after each 25 hours of use thereafter. **CHANGE THE OIL MORE FREQUENTLY IF USED IN SANDY OR DUSTY CONDITIONS**

TO DRAIN OIL (See Figure 12)

- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.
- Drain the gas tank and then turn the mower on its side with the carburetor side up and remove oil drain plug.
- Set the mower down and drain oil into a flat pan.
NOTE: Oil will drain more freely when warm.
- Replace oil drain plug, tighten firmly.
- Refill crankcase with oil. Refer to **BEFORE STARTING ENGINE** in operation section on page 9 of this manual.

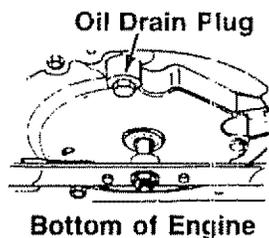


FIGURE 12.

SPARK PLUG

Change your spark plug each year to make your engine start easier and run better. Set spark plug gap at .025 inch.

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 (See Figure 13):

- Remove the air filter cover by turning counter-clockwise to the stop and pull away from collar.
- Remove filter from inside of cover.
- Clean the inside of the cover and the collar to remove any dirt accumulation.
- Insert new filter into cover.
- Put air filter cover and filter into collar aligning the tab with the slot.
- Push in on cover and turn clockwise to tighten.

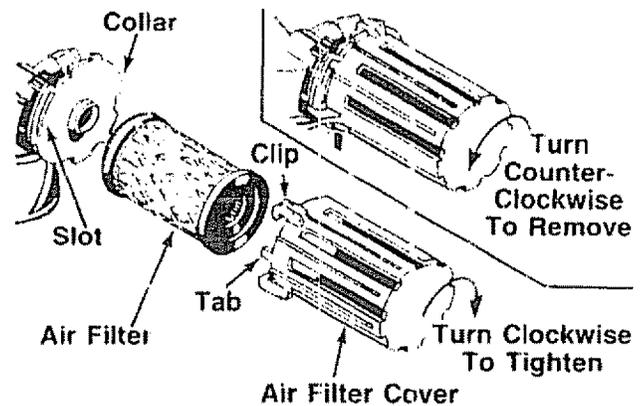


FIGURE 13.

CLEANING



WARNING: DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND PLACE WIRE WHERE IT CANNOT COME IN CONTACT WITH THE SPARK PLUG.

- Turn mower on its side with carburetor up.
- Clean the underside of your mower after each use by scraping to remove build-up of grass clippings, leaves, dirt or other matter. If this debris is allowed to accumulate, it will invite rust and corrosion, and may prevent proper mulching.
- Clean your mower and engine often to keep build-up of grass or debris from accumulating around engine. A clogged engine runs hotter and shortens engine life.

NOTE: We DO NOT recommend using a garden hose to clean 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 ADJUSTMENTS

TO ADJUST CUTTING HEIGHT

Refer to "ADJUST CUTTING HEIGHT" in operation section of manual.

CARBURETOR

Your carburetor has a non-adjustable fixed main jet for mixture control. It has been completely adjusted at the factory. If your engine does not operate properly due to suspected carburetor problems, take your mower to an authorized Sears Service Center for repair and adjustment.

ENGINE SPEED

Your engine slow and fast speeds have 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 mower to an authorized Sears Service Center for repair and adjustment.

REAR TRAIL SHIELD

The rear trail shield, attached between the rear wheels of your mower, is provided to minimize the possibility that objects will be thrown out the rear of the mower toward the operator.

If the shield becomes damaged, it should be replaced.

STORAGE

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

MOWER

- Clean underside of mower housing (See "CLEANING" in maintenance section of manual).
- Inspect and replace/sharpen blade, if required (See "BLADE CARE" in maintenance section of manual).
- Lubricate as shown in Service Recommendation chart on page 13 of manual.

HANDLE

- You can fold your mowers' upper handle for storage as shown in figure 14. Loosen the two (2) hand knobs on sides of the handle and let the upper handle fold down to the rear.

CAUTION: When folding handle for storage or transportation, be careful not to bend or kink the brake cable.

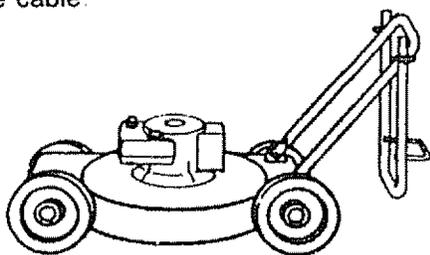


FIGURE 14.
ENGINE



WARNING: NEVER STORE YOUR LAWN MOWER INDOORS OR IN AN ENCLOSED, POORLY VENTILATED AREA IF GASOLINE REMAINS IN THE TANK. FUMES MAY REACH AN OPEN FLAME, SPARK OR PILOT LIGHT FROM A FURNACE, WATER HEATER, CLOTHES DRYER, CIGARETTE, ETC.

To prevent engine damage if lawn mower is not used for more than 30 days, follow the steps below.

NOTE: GASOLINE MUST BE REMOVED OR TREATED TO PREVENT GUM DEPOSITS FROM FORMING IN THE TANK, FILTER, HOSE AND CARBURETOR DURING STORAGE. ALSO DURING STORAGE, ALCOHOL-BLENDED GASOLINE THAT USES ETHANOL OR METHANOL (SOMETIMES CALLED GASOHOL) ATTRACTS WATER. IT ACTS ON THE GASOLINE TO FORM ACIDS WHICH DAMAGE THE ENGINE.

To remove gasoline, run engine until tank is empty and engine stops. If you do not want to remove gasoline, Sears Craftsman Fuel Stabilizer No. 33500 may be added to any gasoline left in the tank to minimize gum deposits and acids. If the tank is almost empty, mix stabilizer with fresh gasoline in a separate container and add some to the tank. **Always follow instructions on stabilizer container. Then run engine at least 10 minutes after stabilizer is added to allow mixture to reach carburetor.**

You can help keep your engine in good operating condition during storage by:

- Changing oil.
- Lubricating the piston/cylinder area by first removing the spark plug and squirting clean engine oil into the spark plug hole. Then cover the spark plug hole with a rag to absorb oil spray. Next, rotate the engine by pulling the starter two or three times. Finally, reinstall spark plug and attach spark plug wire.

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 mower under any plastic cover. Plastic cannot breathe which allows condensation to form and cause the metal components of your mower to rust.

SERVICE RECOMMENDATIONS

SERVICE RECORD <small>Fill in dates as you complete regular service</small>	SCHEDULE			SERVICE DATES						
	Every Use	After First Two Hours	Every 25 Hours							
Check Engine Oil	✓									
Change Engine Oil		✓	✓							
Blade Replaced			✓							
Air Cleaner Replaced			✓							
Spark Plug Replaced			✓							
Lubricate Mower			✓							
Cleaning	✓									
Muffler			✓							

✓ CHECK

LUBRICATION

ENGINE

See "Engine Lubrication" in Maintenance Section of Manual.

WHEELS

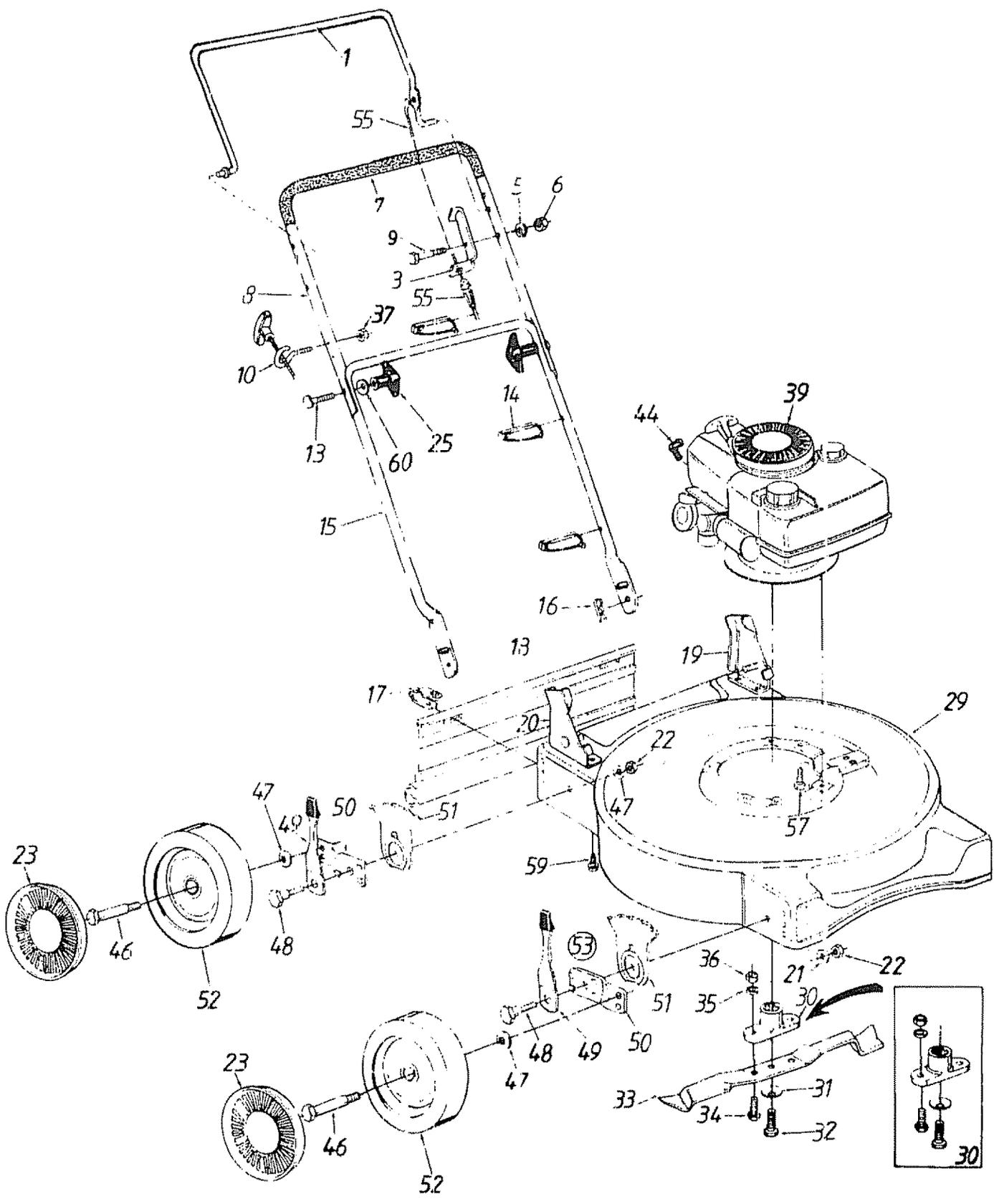
DO NOT oil or grease the wheel bearings. Viscous lubricants will attract dust and dirt that will shorten the life of the self-lubricating wheel bearings. If you feel the wheels must be lubricated, use only a dry, silicone type lubricant sparingly.

TROUBLE SHOOTING GUIDE

Trouble	Possible Cause(s)	Corrective Action
Engine fails to start	<ol style="list-style-type: none"> 1. Blade control handle disengaged 2. Spark plug wire disconnected 3. Throttle control lever not in starting position 4. Fuel tank empty, or stale fuel 5. Blocked fuel line 6. Faulty spark plug 7. Engine flooded 	<ol style="list-style-type: none"> 1. Engage blade control handle 2. Connect wire to spark plug 3. Move throttle lever to starting position. 4. Fill tank with clean, fresh gasoline. 5. Clean fuel line. 6. Clean, adjust gap or replace. 7. Remove spark plug, dry the plug, and crank engine with plug removed and throttle in off position. Replace spark plug, connect wire and resume starting procedures.
Engine runs erratic	<ol style="list-style-type: none"> 1. Spark plug wire loose 2. Blocked fuel line or stale fuel 3. Vent in gas cap plugged 4. Water or dirt in fuel system 5. Dirty air cleaner 	<ol style="list-style-type: none"> 1. Connect and tighten spark plug wire 2. Clean fuel line; fill tank with clean, fresh gasoline 3. Clear vent 4. Drain fuel tank. Refill with fresh fuel 5. Clean air cleaner. See maintenance section of this manual
Engine overheats	<ol style="list-style-type: none"> 1. Engine oil level low. 2. Air flow restricted. 	<ol style="list-style-type: none"> 1. Fill crankcase with proper oil. 2. Clean lawn mower engine
Occasional skip (hesitates) at high speed	Spark plug gap too close	Adjust gap to .030"
Idles poorly	<ol style="list-style-type: none"> 1. Spark plug fouled, faulty or gap too wide 2. Dirty air cleaner. 	<ol style="list-style-type: none"> 1. Reset gap to .030" or replace spark plug 2. Clean air cleaner. See maintenance section of this manual
Excessive vibration	<ol style="list-style-type: none"> 1. Cutting blade loose or unbalanced 2. Bent cutting blade 3. Bent engine crankshaft. 	<ol style="list-style-type: none"> 1. Tighten blade and adapter. Balance blade 2. Replace blade. 3. Contact your SEARS Service Center
Mower will not mulch grass	<ol style="list-style-type: none"> 1. Engine speed too low 2. Wet grass 3. Excessively high grass. 4. Dull blade 	<ol style="list-style-type: none"> 1. Move throttle lever to FAST position 2. Do not mow when grass is wet; wait until later to cut. 3. Mow once at a high cutting height, then mow again at desired height or make a narrower cutting swath (1/2 width). 4. Sharpen or replace blade
Uneven cut	<ol style="list-style-type: none"> 1. Wheels not positioned correctly. 2. Dull blade. 	<ol style="list-style-type: none"> 1. Place all four wheels in same height position. 2. Sharpen or replace blade.

Note: For repairs beyond the minor adjustments listed above, contact your nearest SEARS Service Center.

SEARS CRAFTSMAN 20" ROTARY MULCHING MOWER MODEL NO. 247.384260
Repair Parts



SEARS CRAFTSMAN 20" ROTARY MULCHING MOWER MODEL NO. 247.384260

Repair Parts

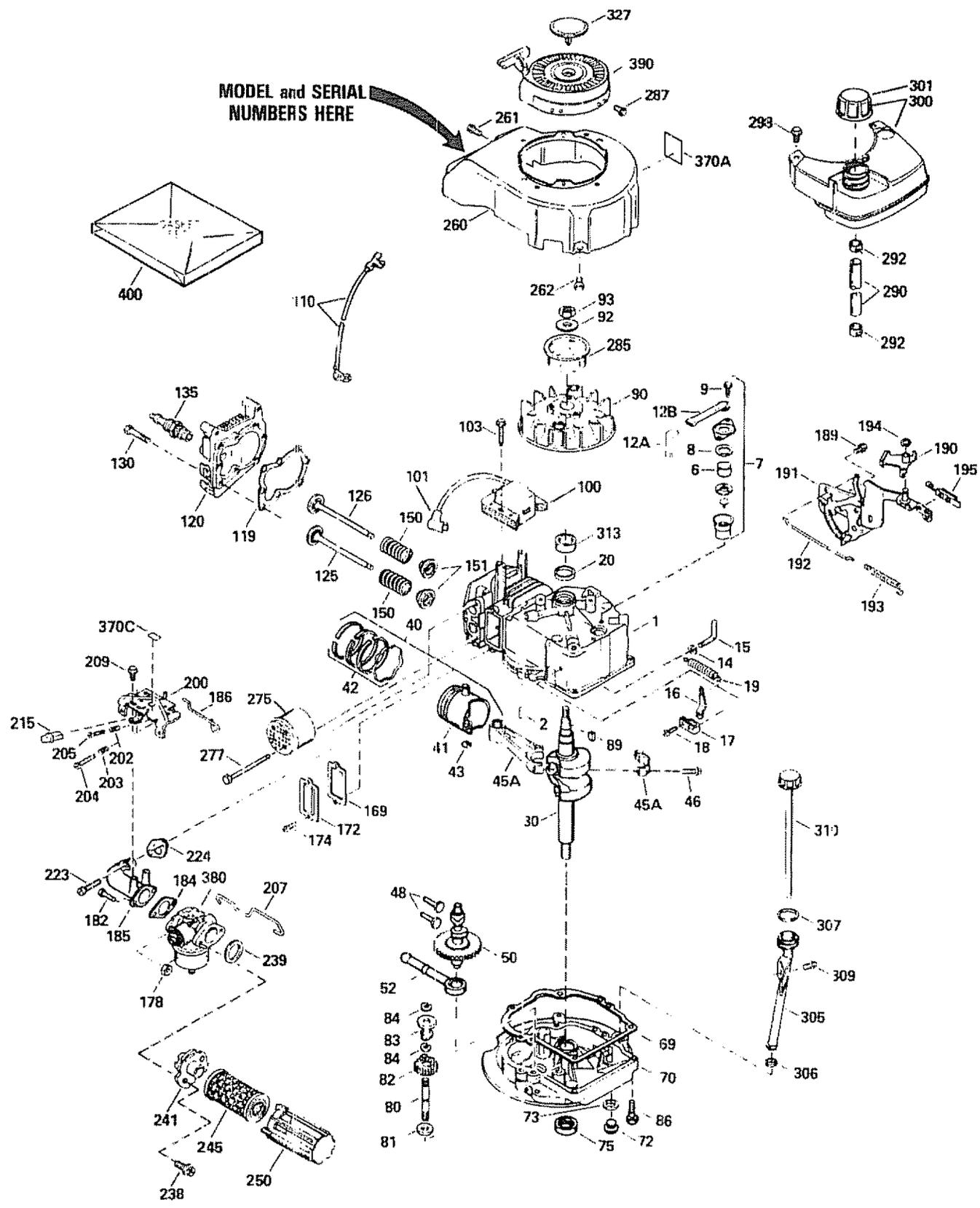
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	747-0748	Control Handle Ass'y.	34	710-1055	Hex Bolt 3/8-24 x 1" Lg.
3	17174	Cable Brkt	35	736-0169	L-Wash. 3/8" I.D.*
5	736-0175	Spr. Wash. 1/4" I.D.	36	712-0241	Hex Nut 3/8-24 Thd.
6	712-0287	Hex Nut 1/4-20 Thd.*	37	712-0324	Hex L-Nut 1/4-20 Thd.
7	720-0226	Grip	39	143.414292	Engine—Craftsman Model 143.414292
8	749-0756A	Upper Handle	44	735-0639	Spark Plug Boot
9	710-0597	Hex Bolt 1/4-20 x 1" Lg.	46	738-0102	Axle Bolt
10	710-1205	Rope Guide Bolt	47	736-0105	Bell-Wash. .400" I.D. x .88"
13	710-1174	Curved Hd. Bolt 5/16-18 x 2" Lg.	48	738-0507B	Shld. Bolt .50" Dia. x .357"
14	726-0240	Cable Tie	49	14832	Spring Lever Ass'y. w/Knob
15	749-0372B	Lower Handle	50	15262B	Pivot Bar
16	714-0104	Hairpin Cotter	51	15261A	Height Adj. Plate
17	17098	Hinge Clip	52	734-1512A	Wheel Ass'y. Comp.
18	731-0872	Rear Flap	53	14578	Height Adj. Ass'y. Comp.— R.F. & L.R.
19	12935A	Handle Bracket Ass'y.—L.H.		14579	Height Adj. Ass'y. Comp.— L.F. & R.R.
20	12936A	Handle Bracket Ass'y.—R.H.			
21	736-0356	Bell-Wash. .39" I.D. x 1.38"	55	746-0735	Control Cable
22	712-0798	Hex Nut 3/8-16 Thd.*	57	710-0654A	Hex L-Wash Hd Scr 3/8-16 x 1 0" Lg.
23	731-0981A	Hub Cap	59	710-0603	Hex Wash. Hd. B-Tap Scr. 5/16-18 x .5" Lg.
25	720-0241	Hand Knob	60	736-0451	Saddle Washer .32" I.D.
29	682-0002	20" Deck Ass'y.	—	770-7192F	Owner's Guide
30	753-0485	Blade Adapter Kit (Splined)			
31	736-0453	Bell-Wash. .46" I.D.			
32	710-0757	Hex Bolt 7/16-20 x 1.5" Lg.			
33	742-0500	20" Mulching Blade			

*Common Hardware—May Be Purchased Locally.

NOTE: Specifications subject to change without notice or obligation.

CRAFTSMAN 4 H.P. ENGINE MODEL NO. 143.414292

Repair Parts



CRAFTSMAN 4 H.P. ENGINE MODEL NO. 143.414292

Repair Parts

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	35010	Cylinder Ass'y. (Incl. Nos. 2 & 20)	92	650815	Washer, Belleville
2	26727	Pin, Dowel	93	650816	Nut, Flywheel
6	33734	Element, Breather	100	34443A	Solid State Ass'y.
7	34214A	Breather Ass'y. (Incl. Nos. 6, 8, 9, 12A & 12B)	101	610118	Cover, Spark Plug
8	*33735	Gasket, Breather	103	650814	Screw, Torx T-15 Hex Washer Hd. Sems, 10-24 x 1
9	30200	Screw, Hex Washer Hd. Self-Tap Sems, 10-24 x 9/16	110	34961	Wire, Ground
12A	34695	Elbow, Breather Tube	119	*33015A	Gasket, Cylinder Head
12B	33886	Tube, Breather	120	34342	Head, Cylinder
14	28277	Washer, Flat	125	29315C	Valve, Exhaust (Std.) (Incl. No. 151)
15	30589	Rod, Governor (Incl. No. 14)	125	29316C	Valve, Exhaust (1/32" oversize) (Incl. No. 151)
16	31383A	Lever, Governor	126	29314B	Valve, Intake (Std.) (Incl. No. 151)
17	31335	Clamp, Governor Lever	126	29315C	Valve, Intake (1/32" oversize) (Incl. No. 151)
18	650548	Screw, Hex Washer Hd 8-32 x 5/16	130	6021A	Screw, Hex Flange Hd., 5/16-18 x 1 1/2
19	31361	Spring, Extension	135	35395	Spark Plug, Resistor (Champion RJ-19LM or equivalent)
20	32600	Seal, Oil	150	31672	Spring, Valve
30	35612	Crankshaft Ass'y	151	31673	Cap, Lower Valve Spring
40	35544	Piston, Pin & Ring Ass'y. (Std) (Incl. Nos. 41, 42 & 43)	169	*27234A	Gasket, Valve Spring Box
40	35545	Piston, Pin & Ring Ass'y. (.010 oversize) (Incl. Nos. 41, 42 & 43)	172	32755	Cover, Valve Spring Box
40	35546	Piston, Pin & Ring Ass'y. (.020 oversize) (Incl. Nos. 41, 42 & 43)	174	650128	Screw, Hex Hd. Sems, 10-24 x 1/2
41	35541	Piston & Pin Ass'y. (Std.) (Incl. No. 43)	178	29752	Nut & Lockwasher, 1/4-28
41	35542	Piston & Pin Ass'y. (.010 oversize) (Incl. No. 43)	182	6201	Screw, Hex Hd., 1/4-28 x 7/8
41	35543	Piston & Pin Ass'y. (.020 oversize) (Incl. No. 43)	184	*26756	Gasket, Carburetor
42	35547	Ring Set, Piston (Std.)	185	31384A	Pipe, Intake (Incl. No. 224)
42	35548	Ring Set, Piston (.010 oversize)	186	34337	Link, Governor Spring
42	35549	Ring Set, Piston (.020 oversize)	189	650839	Screw, Hex Washer Hd. Powerlok, 1/4-20 x 3/8
43	20381	Ring, Piston Pin Retaining	190	35831	Lever, Brake
45A	32875	Rod Ass'y., Connecting (Incl. No. 46)	191	35040A	Bracket, S.E. Brake (Incl. No. 195)
46	32610A	Bolt, Connecting Rod	192	34966	Link, Control
48	27241	Valve, Lifter	193	35830	Spring, Extension
50	33148A	Camshaft (Compression Release)	194	32309	Ring, Retaining
52	29914	Pump Ass'y., Oil	195	610973	Terminal Ass'y.
69	*35261	Gasket, Mounting Flange	200	33205A	Bracket Ass'y., Control (Incl. Nos. 202 thru 205)
70	34311C	Flange, Mounting (Incl. Nos. 72, 73, 75 & 80)	202	33802	Spring, Compression
72	30572	Plug, Oil Drain (Incl. No. 73)	203	31342	Spring, Compression
73	*28833	Gasket, Oil Plug (Not required with plastic oil plug)	204	650549	Screw, Fil. Hd., 5-40 x 7/16
75	27897	Seal, Oil	205	650777	Screw, Fil. Hd., 6-32 x 21/32
80	30574	Shaft, Governor	207	34336	Link, Throttle
81	30590A	Washer, Flat	209	30200	Screw, Hex Washer Hd. Self-Tap Sems, 10-24 x 9/16
82	30591	Gear Ass'y., Governor (Incl. No. 81)	215	32410	Knob, Control
83	30588A	Spool, Governor	223	650451	Screw, Hex Hd. Sems, 1/4-20 x 1
84	29193	Ring, Retaining	224	*34690A	Gasket, Intake Pipe
86	650488	Screw, Hex Hd. Sems, 1/4-20 x 1 1/4	238	650932	Screw, Hex Washer Hd. Shld., 10-32 x 49/64
89	611004	Key, Flywheel	239	*34338	Gasket, Air Cleaner
90	611112	Flywheel	241	35797	Collar, Air Cleaner
			245	35066	Filter, Air Cleaner (Paper)
			250	35065	Cover, Air Cleaner
			260	35393	Housing, Blower

CRAFTSMAN 4 H.P. ENGINE MODEL NO. 143.414292

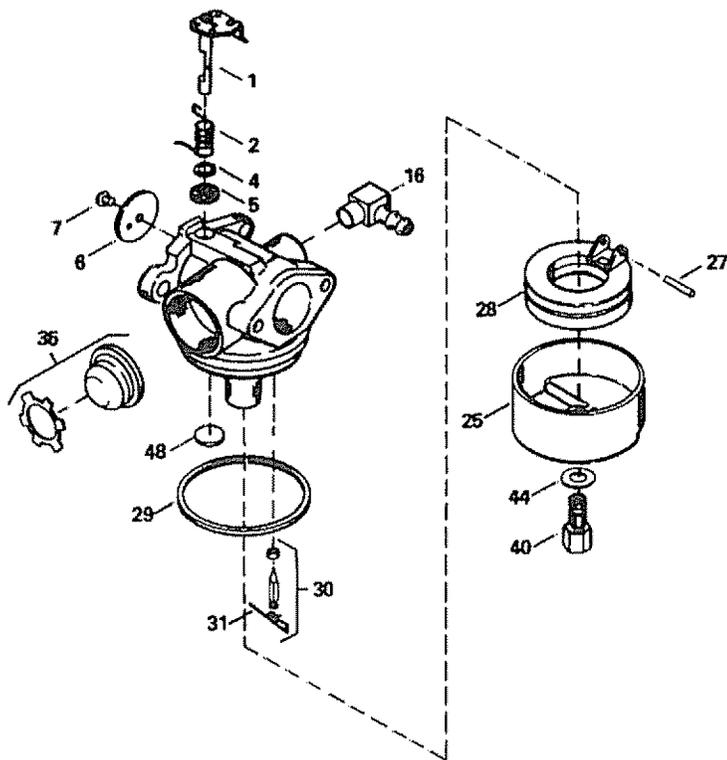
Repair Parts

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
261	30200	Screw, Hex Washer Hd Self-Tap Sems, 10-24 x 9/16	305	35577	Tube, Oil Fill
262	650831	Screw, Hex Washer Hd Powerlok Thd, 1/4-20 x 15/32	306	34265	Gasket, Fill Tube
275	35708	Muffler Ass'y (Incl No 277)	307	35499	"O" Ring
277	650795	Screw, Hex Hd., 1/4-20 x 2 1/4	309	650562	Screw, Hex Washer Hd. Shake-proof, 10-32 x 1/2
285	35000	Hub, Starter	310	35578	Dipstick, Oil Fill
287	650884	Screw, Hex Washer Hd, 8-32 x 1/2	313	34080	Spacer, Flywheel Key
290	30705	Line, Fuel	327	35392	Plug, Starter
292	26460	Clamp, Fuel Line	370A	34346	Decal, Instruction
298	28763	Screw, Hex Washer Hd Shake-proof, 10-32 x 35/64	370C	35167	Decal, Instruction
300	34369A	Tank Ass'y (Incl Nos 292 & 301)	380	632569	Carburetor (Incl. No. 184)
301	35355	Cap, Fuel	390	590621	Starter, Rewind
			400	33238D	Gasket Set (Incl. items marked *)

*Indicates Parts included in Gasket Set, Ref. No 400

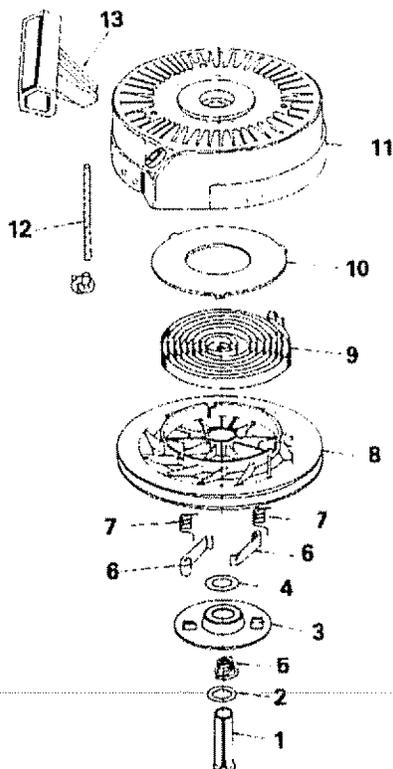
CRAFTSMAN 4 H.P. ENGINE MODEL NO. 143.414292

Repair Parts



PARTS LIST FOR CARBURETOR

KEY NO.	PART NO.	DESCRIPTION
—	632569	Carburetor Comp.
1	631615	Throttle Shaft & Lever Ass'y.
2	631767	Throttle Return Spring
4	631184	Dust Seal Washer
5	631971	Dust Seal
6	631616	Throttle Shutter
7	650506	Throttle Shutter Screw
16	632527	Fuel Fitting
25	631700	Float Bowl
27	631024	Float Shaft
28	632019	Float
29	631028	"O" Ring, Float Bowl to Body
30	631021	Inlet Needle, Seat & Clip (Incl. No. 31)
31	631022	Spring Clip
35	632047	Primer Bulb/Retainer Ring
40	632071	High Speed Bowl Nut
44	631334	Bowl Nut Washer
48	631027	Welch Plug, Atmospheric Vent



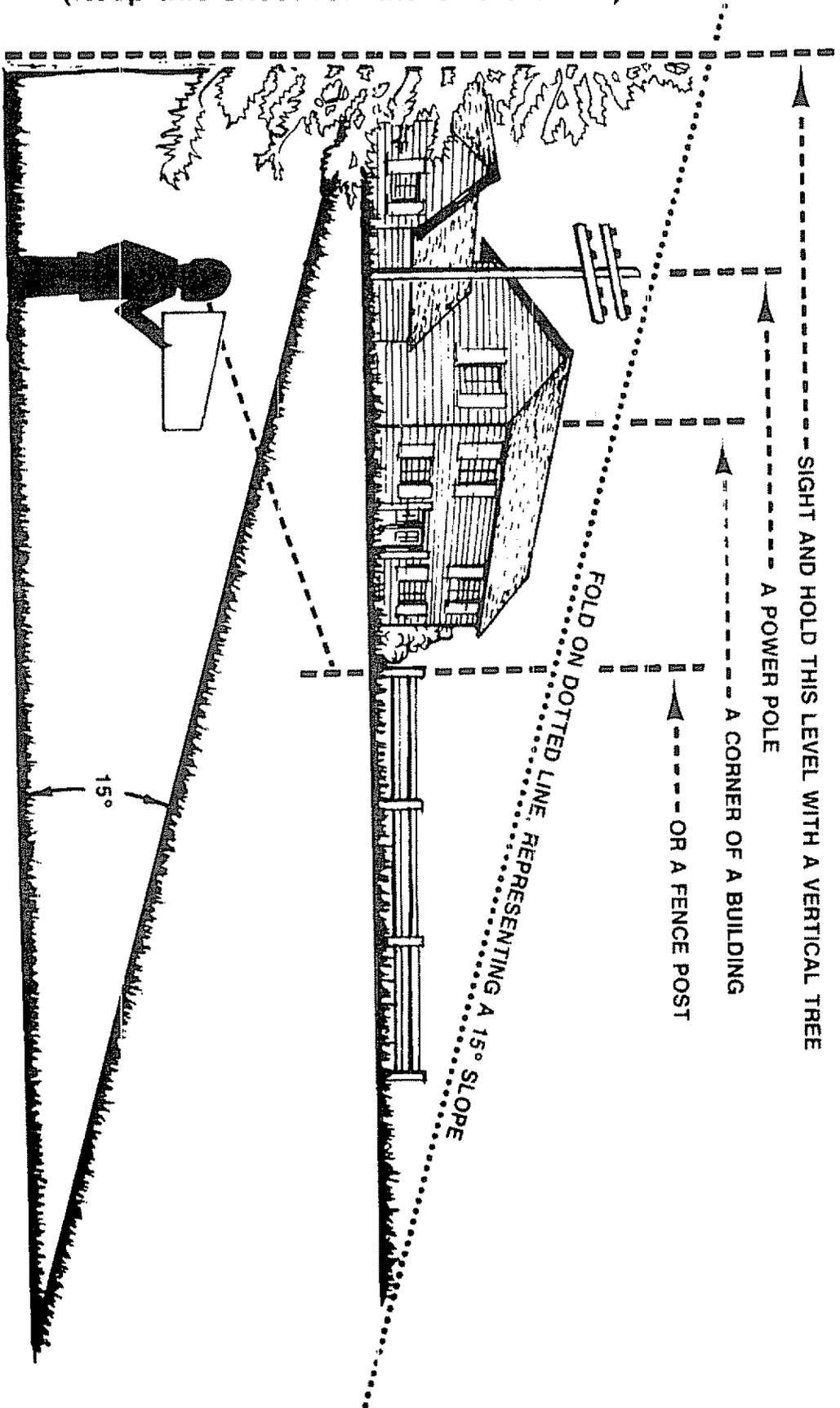
PARTS LIST FOR REWIND STARTER

KEY NO.	PART NO.	DESCRIPTION
—	590621	Rewind Starter Comp.
1	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	590622	Housing Ass'y., Starter
12	590535	Rope, Starter (Length 98" & 9/64" Dia.)
13	590452	Handle, Starter

SLOPE GAUGE

(Keep this sheet for future reference.)

USE THIS SHEET AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.



Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2½ feet every 10 feet). If operating a walk-behind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.

Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes.



SEARS

OWNER'S MANUAL

**MODEL NO.
247.384260**

HOW TO ORDER REPAIR PARTS

CRAFTSMAN®

**4 HORSEPOWER
4 CYCLE ENGINE
20" ROTARY
MULCHING 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 label attached to the rear of the deck.

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 - "20" Rotary Mulching Mower"**
- * **MODEL NUMBER - 247.384260**
- * **ENGINE MODEL NO. - 143.414292**
- * **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."

SEARS, ROEBUCK AND CO., Chicago, IL 60684 U.S.A.