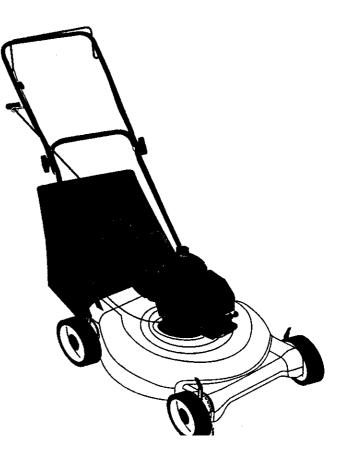
Owner's Manual CRAFTSMAN[®]

6.0 HORSEPOWER 21" REAR DISCHARGE ROTARY LAWN MOWER

Model No. 917.389340



- Safety
- Assembly
- Operation
- Maintenance
- Español
- Repair Parts

CAUTION:

Read and follow all Safety Rules and Instructions before operating this equipment

Sears, Roebuck and Co., Hoffman Estates, IL 60179 Visit our Craftsman website: www.sears.com/craftsman

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WARRANTY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN POWER MOWER

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

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 vary from state to state.

SEARS, ROEBUCK AND CO., D/817 WA, HOFFMAN ESTATES, ILLINOIS 60179

SAFETY RULES

IMPORTANT: This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

I.GENERAL OPERATION

- Read, understand, and follow all instructions on the machine and in the manual(s) before starting. Be thoroughly familiar with the controls and the proper use of the machine before starting.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Only allow responsible individuals, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, bones, sticks, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if

- Do not operate the mower when barefoot or wearing open sandals. Always wear substantial foot wear.
- Do not pull mower backwards unless absolutely necessary. Always look down and behind before and while moving backwards.
- Do not operate the mower with proper guards, plates, grass catcher or other safety protective devices in place.
- See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.
- Stop the blade(s) when crossing gravel drives, walks, or roads.
- Stop the engine (motor) whenever you leave the equipment, before cleaning the mower or unclogging the chute.

- Shut the engine (motor) off and wait until the blade comes to complete stop before removing grass catcher.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Never operate machine in wet grass. Always be sure of your footing: keep a firm hold on the handle and walk; never run.
- Disengage the self-propelled mechanism or drive clutch on mowers so equipped before starting the engine (motor).
- If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
- Always wear safety goggles or safety glasses with side shields when operating mower.

II. SLOPE OPERATION

Slopes are a major factor related to slip and fall accidents which can result in severe injury. All slopes require extra caution. If you feel uneasy on a slope, do not mow it.

DO:

- Mow across the face of slopes: never up and down. Exercise extreme caution when changing direction on slopes.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Tall grass can hide obstacles.

DO NOT:

- Do not trim near drop-offs, ditches or embankments. The operator could lose footing or balance.
- · Do not trim excessively steep slopes.
- Do not mow on wet grass. Reduced footing could cause slipping.

III. CHILDREN

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

 Keep children out of the trimming area and under the watchful care of another responsible adult.

- Be alert and turn machine off if children enter the area.
- Before and while walking backwards, look behind and *down* for small children.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
 - Never refuel the machine indoors.
 - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Never make adjustments or repairs with the engine (motor) running. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
- Keep nuts and bolts, especially blade attachement bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never attempt to make wheel height adjustments while the engine (motor) is running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Do not change the engine governor setting or overspeed the engine.

ALook for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.

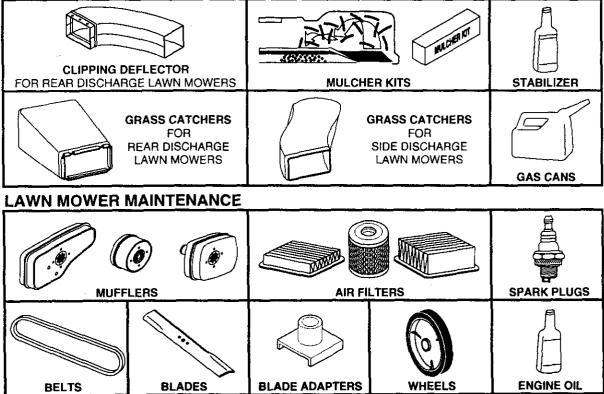
A CAUTION: In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot contact spark plug. **AWARNING:** Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

AWARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

ACCESSORIES

These accessories were available when this lawn mower was produced. They are not shipped with your mower. They are also available at most Sears retail outlets and service centers. Most Sears stores can also 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.





ASSEMBLY

Read these instructions and this manual in its entirety before you attempt to assemble or operate your new lawn mower.

IMPORTANT: This lawn mower is shipped WITHOUT OIL OR GASOLINE in the engine.

Your new lawn mower has been assembled at the factory with the exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your lawn mower, all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to ensure proper tightness. All parts such as nuts, washers, bolts, etc., necessary to complete the assembly have been placed in the parts bag.

TO REMOVE LAWN MOWER FROM CARTON

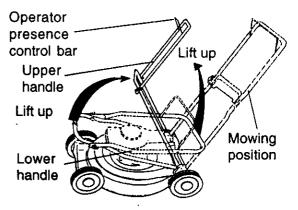
- Remove loose parts included with mower.
- Cut down two end corners of carton and lay end panel down flat.
- Remove all packing materials except padding between upper and lower handle and padding holding operator presence control bar to upper handle.
- Roll lawn mower out of carton and check carton thoroughly for additional loose parts.

HOW TO SET UP YOUR LAWN MOWER

TO UNFOLD HANDLE

IMPORTANT: Unfold handle carefully so as not to pinch or damage control cables.

- Raise lower handle section to operating position and squeeze the bottom ends of lower handle towards each other until the pin in handle can be inserted into one of the three height adjustment holes.
- Remove protective padding, raise upper handle section into place on lower handle and tighten both handle knobs.
- Remove any packing material from around control bar.
- Your handles may be adjusted for your mowing comfort. Refer to Service and Adjustments section of this manual.



TO INSTALL ATACHMENTS

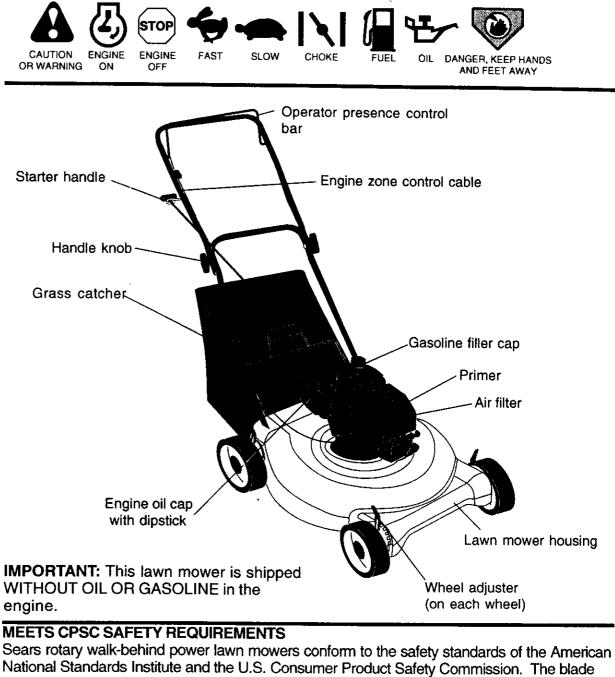
Your lawn mower was shipped ready to be used as a mulcher. To convert to bagging, see "To convert mower" in the OPERATION section of this manual.

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.

These symbols may appear on your lawn mower or in literature supplied with the product. Learn and understand their meaning.



turns when the engine is running.

Operator Presence Control Bar-
held down to the handle to start the engine.Pri
car
staRelease to stop the engine.sta

Primer - pumps additional fuel from the carburetor to the cylinder for use when starting a cold engine. **Starter Handle -** used for starting the engine.



The operation of any lawn mower can result in foreign objects thrown into the eyes, which can result in severe eye

damage. Always wear safety glasses or eye shields while operating your lawn mower or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety glasses.

HOW TO USE YOUR LAWN MOWER ENGINE SPEED CONTROL

The engine speed was set at the factory for optimum performance. Speed is not adjustable.

ENGINE ZONE CONTROL

ACAUTION: 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.

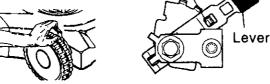
 Your lawn mower is equipped with an operator presence control bar which requires the operator to be positioned behind the lawn mower handle to start and operate the lawn mower.

TO 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. Move wheel up or down to suit your requirements. Be sure all wheels are in the same setting.

NOTE: Adjuster is properly positioned when plate tab inserts into hole in lever. Also, 9-position adjusters (if so equipped) allow lever to be positioned between the plate tabs.

Lower Wheels for High Cut Plate Tab



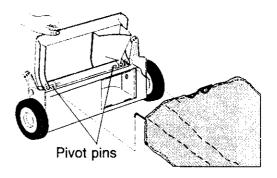
Raise Wheels for Low Cut

TO CONVERT MOWER

Your lawn mower was shipped ready to be used as a mulcher. To convert to bagging :

REAR BAGGING

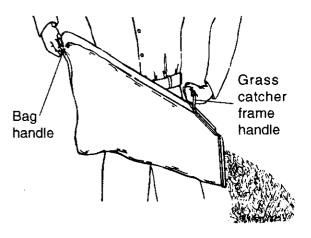
- Lift rear door of the lawn mower and place the grass catcher frame hooks onto the door pivot pins.
- To convert to mulching operation, remove grass catcher and close rear door.



TO EMPTY GRASS CATCHER

- Lift up on grass catcher using the frame handle.
- Remove grass catcher with clippings from under lawn mower handle.
- Empty clippings from bag using both frame handle and bag handle.

NOTE: Do not drag the bag when emptying; it will cause unnecessary wear.



BEFORE STARTING ENGINE

OL

Your lawn mower is shipped without oil in the engine.

- Be sure mower is level and area around oil fill is clean.
- Remove engine oil cap and fill to the full line on the dipstick.

NOTE: Allow oil to settle down into engine for accurate dipstick reading.

- Engine holds 20 ozs. of oil. For type and grade of oil to use, see "ENGINE" in Maintenance section of this manual.
- Pour oil slowly. Do not over fill.
- 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.
- Change the oil after every 25 hours of operation or each season. You may need to change the oil more often under dusty, dirty conditions.

ADD GASOLINE

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.

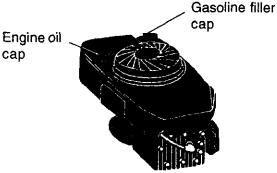
AWARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 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. **ACAUTION:** Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

TO START ENGINE

NOTE: Due to protective coatings on the engine, a small amount of smoke may be present during the initial use of the product and should be considered normal.

- To start a cold engine, push primer three (3) times before trying to start. Use a firm push. This step is not usually necessary when starting an engine which has already run for a few minutes.
- Hold operator presence control bar down to the handle and pull starter handle quickly. Do not allow starter rope to snap back.
- To stop engine, release operator presence 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.



MOWINGTIPS

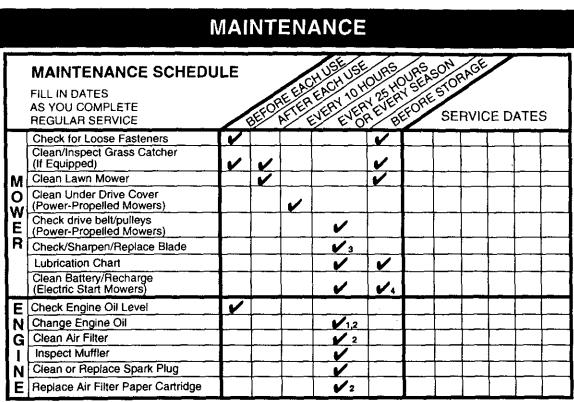
- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings. It may also be necessary to reduce ground speed and/or run the lawn mower over the area a second time.
- For extremely heavy cutting, reduce the width of cut by overlapping previously cut path and mow slowly.
- For better grass bagging and most cutting conditions, the engine speed should be set in the fast position.
- 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 clippings is left on the right side of a rear discharge 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.
- Keep top of engine around starter clear and clean of grass clippings and chaff. This will help engine air flow and extend engine life.

MULCHING MOWING TIPS

IMPORTANT: For best performance, keep mower housing free of built-up grass and trash. Clean UNDERSIDE OF MOWER HOUSING after each use. See "Cleaning" in MAINTENANCE section of this manual.

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the lawn mower cutting height so that the lawn mower cuts off only the top one-third of the grass blades. If the lawn is overgrown it will be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of mulched grass. For extremely heavy mulching, reduce your width of cut, mow slowly and raise the rear of the lawn mower one wheel adjuster setting higher than the front.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.





1 - Change more often when operating under a heavy load or in high ambient temperatures.

2 - Service more often when operating in dirty or dusty conditions.

3 - Replace blades more often when mowing in sandy soil

4 - Charge 48 hours at end of season.

GENERAL RECOMMENDATIONS

The warranty on this lawn mower does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain mower as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your unit. All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- Once a year, replace the spark plug, replace air filter element and check blade for wear. A new spark plug and clean/new air filter element assures proper air-fuel mixture and helps your engine run better and last longer.
- Follow the maintenance schedule in this manual.

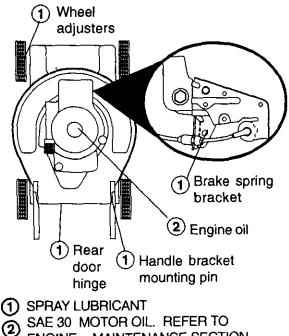
BEFORE EACH USE

- Check engine oil level.
- Check for loose fasteners.

LUBRICATION

Keep unit well lubricated (See "LUBRICATION CHART").

LUBRICATION CHART



IMPORTANT: Do not oil or grease plastic wheel bearings. Viscous lubricants will attract dust and dirt that will shorten the life of the self lubricating bearings. If you feel they must be lubricated, use only a dry, powdered graphite type lubricant sparingly.

ENGINE - MAINTENANCE SECTION.

PRODUCT SPECIFICATIONS

	······································	
SERIAL NUMBER		
DATE OF PURCHASE		
GASOLINE CAPACITY/ TYPE:	1.5 QUARTS UNLEADED F	REGULAR
OIL TYPE (API-SF/SG/SH):	SAE 30 (ABO) SAE 5W-30 (B	
OIL CAPACITY:	20 OZS.	
SPARK PLUG(GAP: .030")	CHAMPION R	J19LM OR J19LM
VALVE CLEARANCE:	INTAKE: EXHAUST:	.004008 .004008
SOLID STATE IGNITION AIR GAP:	.0125 IN.	, , , , , , , , , , , , , , , , , , ,
BLADE BOLT TORQUE:	35-40 FT. LBS	•
 The model and serial numbers will 	be found on a decal a	attached to the rear of the

lawn mower housing. Record both serial number and date of purchase in space provided above.

LAWNMOWER

Always observe safety rules when performing any maintenance.

TIRES

- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

BLADE CARE

For best results, mower blade must be kept sharp. Replace bent or damaged blades.

TO REMOVE BLADE

- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with spark plug.
- Turn lawn mower on its side. Make sure air filter and carburetor are up.
- Use a wood block between blade and mower housing to prevent blade from turning when removing blade bolt.
- Protect your hands with gloves and/or wrap blade with heavy cloth.
- · Remove blade bolt by turning counterclockwise.
- Remove blade and attaching hardware (bolt, lock washer and hardened washer).

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 crankshaft keyway are aligned.
- Position blade on the blade adapter aligning the two (2) holes in the blade with the raised lugs on the adapter.
- · Be sure the trailing edge of blade (opposite sharp edge) is up toward the engine.
- Install the blade bolt with the lock washer and hardened washer into blade adapter and crankshaft.
- 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.

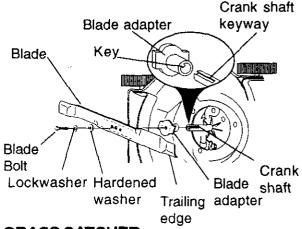
IMPORTANT: Blade bolt is grade 8 heat treated.

TO SHARPEN BLADE

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

Care should be taken to keep the blade balanced. An unbalanced blade will cause eventual damage to lawn mower or engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- 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, sharpen the heavy end until the blade is balanced.

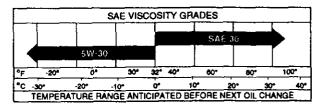


GRASS CATCHER

- The grass 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. Give the lawn mower model number when ordering.

ENGINE LUBRICATION

Use only high quality detergent oil rated with API service classification SF, SH or SG. Select the oil's SAE viscosity grade according to your expected operating temperature.



NOTE: Although multi—viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi—viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after every 25 hours of operation or at least once a year if the lawn mower is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Tighten oil plug securely each time you check the oil level.

TO CHANGE ENGINE OIL

NOTE: Before tipping lawn mower to drain oil, drain fuel tank by running engine until fuel tank is empty.

- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with spark plug.
- Remove engine oil cap; lay aside on a clean surface.
- Tip lawn mower on its side and drain oil into a suitable container. Rock lawn mower back and forth to remove any oil trapped inside of engine.
- Wipe off any spilled oil on lawn mower and on side of engine.
- Fill engine with oil. Fill only to the "FULL" line on the dipstick. DO NOT OVER FILL.
- Replace engine oil cap.
- Reconnect spark plug wire to spark plug.



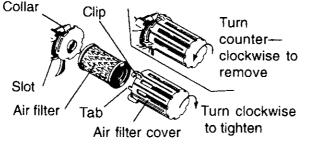
AIR FILTER

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

- Remove the air filter cover by turning counterclockwise 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.



MUFFLER

Inspect and replace corroded muffler as it could create afire hazard and/or damage.

SPARK PLUG

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

CLEANING

IMPORTANT: For best performance, keep mower housing free of built—up grass and trash. Clean underside of mower housing after each use.

CAUTION: Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with the spark plug.

- Turn lawn mower on its side. Make sure air filter and carburetor are up. Clean the underside of your lawn mower by scraping to remove build—up of grass and trash.
- Clean engine often to keep trash from accumulating. A clogged engine runs hotter and shortens engine life.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- 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 shortened engine life.

SERVICE AND ADJUSTMENTS

ACAUTION: Before performing any service or adjustments:

- Release control bar and stop engine.
- Make sure the blade and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place where it cannot come in contact with plug.

LAWN MOWER

TO ADJUST CUTTING HEIGHT

See "TO ADJUST CUTTING HEIGHT" in the Operation section of this manual. **REAR DEFLECTOR**

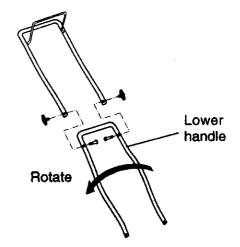
The rear deflector, attached between the rear wheels of your lawn mower, is provided to minimize the possibility that objects will be thrown out the rear of the lawn mower into the operator's mowing position.

If the rear deflector becomes damaged, it should be replaced.

TO ADJUST HANDLE

The handle can be mounted in a high or low position. The mounting holes in the bottom of lower handle are off center for raising or lowering the handle.

- Remove upper handle and all parts attached to lower handle.
- Remove hairpin cotters from lower handle bracket mounting pin.
- Squeeze lower handle in to remove it from mounting pins.
- Turn lower handle over to raise or lower handle.
- Squeeze lower handle in and position holes onto mounting pins on handle bracket.
- Reassemble upper handle and all parts removed from lower handle.

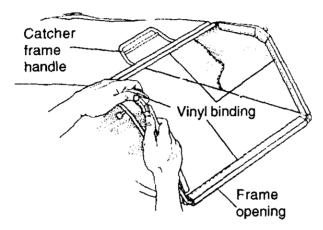


TO ASSEMBLE GRASS CATCHER

- Put grass catcher frame into grass bag with rigid part of bag on the bottom. Make sure the frame handle is outside of the bag top.
- Slip vinyl bindings over frame.

NOTE: If vinyl bindings are too stiff, hold them in warm water for a few minutes. If bag gets wet, let it dry before using.

ACAUTION: 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.



ENGINE 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 service center for repair or adjustment.

IMPORTANT: Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. if you think the engine-governed high speed needs adjusting, contact your nearest authorized service center, which has proper equipment and experience to make any necessary adjustments.

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 service center for repair and adjustment.

STORAGE

Immediately prepare your lawn mower for storage at the end of the season or if the unit will not be used for 30 days or more.

LAWNMOWER

When lawn mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire lawn mower (See "CLEAN-ING" in the Maintenance section of this manual).
- Lubricate as shown in the Maintenance section of this manual.
- Be sure that all nuts, bolts, screws, and pins are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

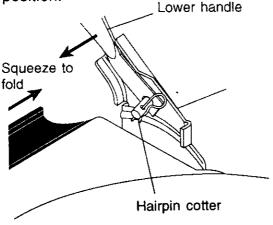
HANDLE

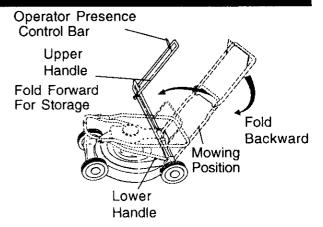
You can fold your lawn mower handle for storage.

- Squeeze the bottom ends of the lower handle toward each other until the lower handle clears the handle bracket, then move handle forward.
- Loosen upper handle mounting bolts enough to allow upper handle to be folded back.

IMPORTANT: When folding the handle for storage or transportationg, be sure to fold the handle as shown or you may damage the control cables.

 When setting up your handle from the storage position, the lower handle will automatically lock into the mowing position.





ENGINE FUEL SYSTEM

IMPORTANT: It is important to prevent gum deposits from forming in essential fuel system parts such as 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.

- Drain the fuel tank.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Maintenance section of this manual). CYLINDER

- · Remove spark plug.
- Pour one ounce (29 ml) of oil through spark plug hole into cylinder.
- Pull starter handle slowly a few times to distribute oil.
- Replace with new spark plug.

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 will cause problems.
- If possible, store your unit indoors and cover it to give protection from dust and dirt.
- Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your unit to rust.

IMPORTANT: Never cover mower while engine and exhaust areas are still warm. **ACAUTION**: Never store the lawn mower with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

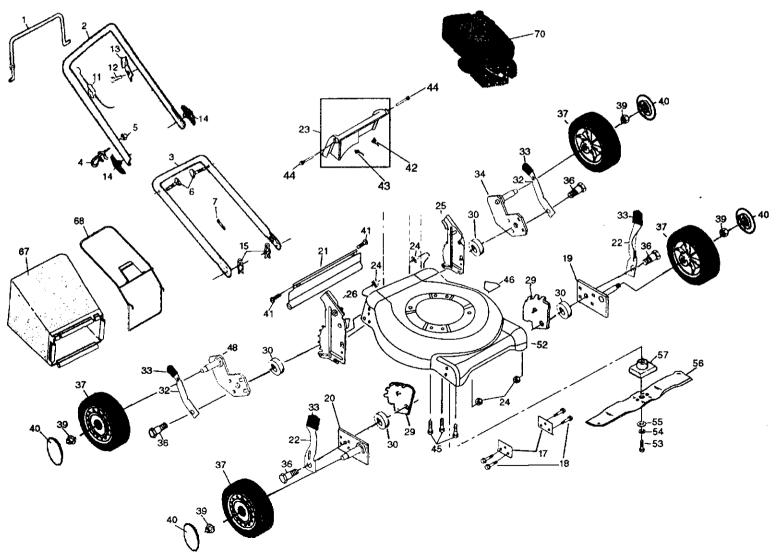
TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Does not start	 Dirty air filter. Out of fuel. Stale fuel. 	 Clean/replace air filter. Fill fuel tank. Drain tank and refill with fresh clean fuel.
	4. Water in fuel.	4. Drain fuel tank and carburetor and refill tank with fresh gasoline.
	5. Spark plug wire is disconnected.	5. Connect wire to plug.
	 Bad spark plug. Loose blade or broken blade adapter. 	 Replace spark plug. Tighten blade bolt or replace blade adapter.
	8. Control bar in released position.	8. Depress control bar to handle.
	9. Control bar defective.	9. Replace control bar.
Loss of power	 Rear of lawn mower housing or cutting blade dragging in heavy grass. 	1. Set to "Higher Cut" position.
	2. Cutting too much grass.	2. Set to "Higher Cut" position.
	3. Dirty air filter. 4. Buildup of grass, leaves,	 Clean/replace air filter. Clean underside of mower
	and trash under mower.	housing.
	 5. Too much oil in engine. 6. Walking speed too fast. 	 Check oil level. Cut at slower walking speed.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Poor cut – uneven	 Worn, bent or loose blade. Wheel heights uneven. Buildup of grass, leaves and trash under mower. 	 Replace blade. Tighten blade bolt. Set all wheels at same height Clean underside of mower housing.
Excessive vibration	 Worn, bent or loose blade. Bent engine crankshaft. 	 Replace blade. Tighten blade bolt. Contact an authorized service center.
Starter rope hard topull	 Engine flywheel brake is on when control bar is released. Bent engine crankshaft. Blade adapter broken. Blade dragging in grass. 	 Depress control bar to upper handle before pulling starter rope. Contact an authorized service center. Replace blade adapter. Move lawn mower to cut grass or to hard surface to start engine
Grass catcher not filling (if so equipped)	 Cutting height too low. Lift on blade worn off. Catcher not venting air. 	 Raise cutting height. Replace blade. Clean grass catcher.
Hard to push	 Grass is too high or wheel height is too low. Rear of lawn mower housing or blade dragging in grass. Grass catcher too full. Handle height position not right for you. 	 Raise cutting height. Raise rear of lawn mower housing one (1) setting higher. Empty grass catcher. Adjust handle height to suit.

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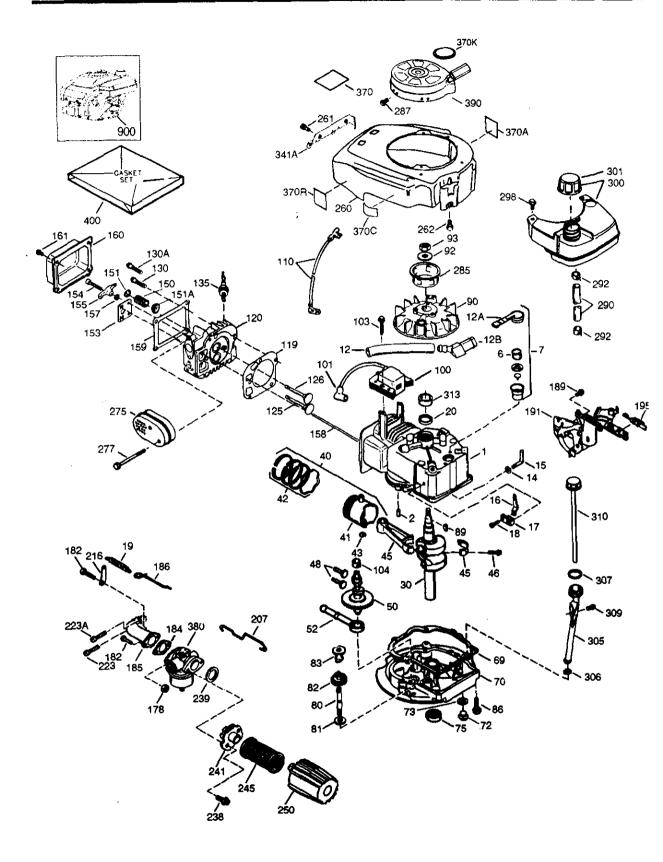
REPAIR PARTS

CRAFTSMAN ROTARY LAWN MOWER -- MODEL NO. 917.389340

CRAFTSMAN ROTARY LAWN MOWER -- MODEL NO. 917.389340

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KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
NO.	NO.	DESCRIPTION			
1	86902	Control Bar	30	19112222	Spacer
2	169709X479	UpperHandle	32	169421X004	Selector Spring Rear
3	169708X479	LowerHandle	33	87877	Selector Knob
4	132001	Rope Guide	34	165762X004	Axle Arm Assembly - LR
5	63601	Locknut 1/4-20	36	160828	Shoulder Bolt 5/16-18
6	131959	Handle Bolt	37	151157	Wheel Assembly
7	66426	Wire Tie	39	83923	Flanged Locknut
11	156577	Engine Zone Control Cable	40	77400	Hubcap
12	750097	Hex Washer Head Screw #10-24 x 1/2	41	88652	Hinge Screw
13	850733X004	Up-Stop Bracket	42	165766	Spring (LH)
14	136376	Handle Knob	43	165767	Spring (RH)
15	51793	Hairpin Cotter	44	165912	Door Bolt
17	165946	Support Bracket	45	150406	Hex Head Thread Rolling Screw 3/8-16 x 1
18	17600406	Screw	46	85463	Danger Decal
19	167132X004	Axle Arm Assembly - LF	48	165761X004	Axle Arm Assembly - RR
20	167133X004	Axle Arm Assembly - RF	52	166872	Housing Assembly (Incl. Ref. #17, 18 & 46)
21	165858	Rear Skirt	53	851084	Hex Head Screw 3/8-24 x 1-3/8 Grd. 8
22	168360X004	Selector Spring Front	54	850263	Helical Lockwasher
23	166875	Rear Door Assembly Kit (Incl. Springs)	55	851074	HardenedWasher
24	751153	Locknut 5/16-18	56	165833	21" Blade
25	166111X479	Handle Bracket Assembly (Left)	57	851514	Blade Adapter
26	166112X479	Handle Bracket Assembly (Right)	67	166113	Grass Bag
27	851856	Screw 1/4-20 x 3/8	68	165755	Catcher Frame
29	160835X007	Wheel Adjusting Bracket - Front	70		Engine - (See Breakdown) Craftsman 143.006008
				161058	Warning Decal (Not Shown)
			••	174937	Owner's Manual



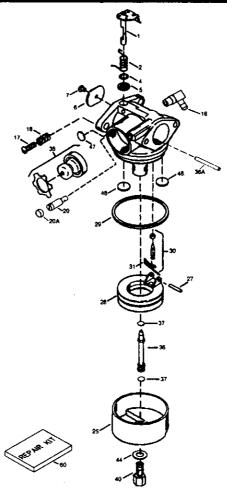
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CRAFTSMAN 4-CYCLE ENGINE

MODEL NUMBER 143.006008

CRAFISMAN 4-CYCLE ENGINE MODEL NUMBER 143.006008					
KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
4	26025 4	Cylinder (Incl. 2, 8, 20)	150	00040	
1 2	36835A	Cylinder (Incl. 2 & 20) Dowel Pin		36649	Push Rod Guide
6	26727	Breather Element	154	650913	Rocker Arm Stud
2	33734		155	35624A	Rocker Arm
7	36557	Breather Ass'y. (Incl. 6 & 12A)	157	650914	Lock Nut
12	36775	Breather Tube	158	36629	Push Rod
(2A	36558	Breather Cover & Tube		35626 *	Rocker Arm Cover Gasket
100	36694	(Incl. 12B) Breather Tube Elbow	160	36578	Blower Housing Support
14	28277	Washer	404	00000	Bracket) (Plated)
15		Governor Rod (Incl. 14)	161	30063	Screw, Torx T-30, 1/4-20 x 1/2"
16	30589 34839A	Governor Lever		29752	Nut & Lock Washer, 1/4-28
17	31335	Governor Lever Clamp		6201	Screw, 1/4-29 x 7/8"
18	651018	Screw, Torx T-15,	104	26756 * 37532	Carburetor Gasket
10	001010	8-32 x 19/64"		32653	Intake Pipe (Incl. 223 & 224)
19	36281	Extension Spring	100	650831	Governor Link Screw, 1/4-20 X 1/2"
20	32600	Oil Seal	105	36559A	S.E. Brake Ass'y. (Incl. 195)
30	37472	Crankshaft	105	610973	Terminal
4õ	35544A	Piston, Pin & Ring Set (Std.)		34336	Throttle Link
	35545A	Piston, Pin & Ring Set (.010"	216	33086	R.P.M. Adjusting Lever
		OS)	223	A 651043	Screw, 1/4-20 x 1-31/64"
	35546	Piston, Pin & Ring Set (.020"	224	36581 *	Intake Pipe Gasket
		OS)		650932	Screw, 10-32 x 49/64"
41	35541	Piston & Pin Ass'y. (Std.)	239	34338 *	Air Cleaner Gasket
	35542	Piston & Pin Ass'y. (.010" OS)	241	35797	Air Cleaner Collar
		(Incl. 43)	245	35066	Air Cleaner Filter
	35543	Piston & Pin Ass'y. (.020" OS)		35065	Air Cleaner Cover
		(Incl. 43)	260	37475	Blower Housing
42	35547A	Ring Set (Std.)		30063	Screw, Torx T-30, 1/4-20 x 1/2"
	35548A	Ring Set (.010" OS)		650831	Screw, 1/4-20 x 1/2"
	35549	Ring Set (.020" OS)	275	37476	Muffler (Incl. 277)
43	20381	Piston Pin Retaining Ring	277	650988	Screw, 1/4-20 x 2-9/32"
45	32875A	Connecting Rod Ass'y.	285	35000A	Starter Cup
		(Incl. 46)	287	650926	Screw, 8-32 x 21/64"
46	32610A	Connecting Rod Bolt		29774	Fuel Line
48	35616	Valve Lifter	292	26460	Fuel Line Clamp
50	37473	Camshaft (Exhaust MCR Incl.	298	28763	Screw, 10-32 x 35/64*
		104)	300	36916	Fuel Tank (Incl. 292 & 301)
52	29914	Oil Pump Ass'y.	301	36246	Fuel Cap
69	35261 *	Mounting Flange Gasket	305	35647	Oil Fill Tube
70	34311E	Mounting Flange (Incl. 72 thru	306	36996 *	"O"-Ring
70	00570	83,306) Oli Drain Plug (Incl. 72)		35499	"O"-Ring
72	30572	Oil Drain Plug (Incl. 73)	309		Screw, 10-32 x 1/2"
73 75	28833	Drain Plug Gasket		35648	Dipstick
80	27897 30574A	Oil Seal Governor Shaft		34080	Spacer
81	30590A	Washer	341	A 36578	Blower Housing Support
82	30591	Governor Gear Ass'y. (Incl. 81)	370	37269	Bracket 6.0 H.P. Craftsman
83	30588A	Governor Spool		A 36261	Lubrication Decal
86	650488	Screw, 1/4-20 x 1-1/4"		C 37318	Primer Decal (3X)
89	611004	Flywheel Key		K 36695	Decal Eager-1 Easy Start
90	611044	Flywheel		R 37317	Warning Decal
92	650815	Belleville Washer		640272	Carburetor (Incl. 184)
93	650816	Flywheel Nut		590737	Rewind Starter
100	34443B	Sólid State Ignition		36806B	Gasket Set
	610118	Spark Plug Cover			(Incl. Items Marked *)
103	651007	Screw, Torx T-15,	900		Replacement Engine NONE
		10-24 x 15/16"	900		Replacement Short Block
	37480	Cam Bushing			750862,
	37047	Ground Wire			order from 71-999
	30730	Cylinder Head Gasket			RPM High 3000 to 3300
	37474	Cylinder Head (Incl. 151A)			
125	36471	Exhaust Valve (Std.)			ine could have been built with
	00470	(Incl. 151)	590	694 starter	
	36472	Èxhaust Valve (1/32" OS)		PIP. AN	
100	202140	(Incl. 151)			onent dimensions given in U.S.
	29314C	Intake Valve (Std.) (Incl. 151) Screw, 5/16-18 x 1-1/2"	inch	es 1 inch = 2	5.4 MM
	650912 A 650999	Screw, 5/16-18 x 2-41/64"			
	34645	Resistor Spark Plug (RN4C)			
	31672	Valve Spring			
151		Valve Spring Cap			
	A 40016A		7		
		3	7		

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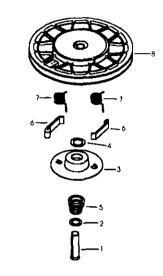


KEY PART NO. NO.	DESCRIPTION
NO. NO.	Desenii neit
<u> </u>	Carburetor (Incl. 184 of Engine Parts List)
1 631615	Throttle Shaft & Lever Assembly
2 631767	Throttle Return Spring
2 631767 4 631184 *	Dust Seal Washer
5 631183 * 6 640070 7 650506	Dust Seal (Throttle)
6 640070	Throttle Shutter
	Shutter Screw
16 631807	Fuel Fitting
17 651025	Throttle Crack Screw/Idle Speed Screw
18 630766	Tension Spring
20 640018	Idle Restrictor Screw
20A 640200	Idle Restrictor Scrwe Cap (Black)
25 631867	Float Bowl
27 631024 *	Float Shaft
28 632019	Float
29 631028	Float Bowl "O" Ring
30 631021 *	Inlet Needle, Seat, & Clip (Incl. 31)
31 631022	Spring Clip
35 640259	Primer Bulb/Retainer Ring
36 640080	Main Nozzle Tube
36A 632766	Carburetor Tube
37 632547 *	"O" Ring, Main Nozzle Tube
40 640175	High Speed Bowl Nut
44 27110A * 47 630748 *	Bowl Nut Washer
48 631027 *	Welch Plug, Idle Mixture Well Welch Plug, Atmospheric Vent
40 031027 60 633760B	Welch Plug, Atmospheric Vent

60 632760B Repair kit (Incl. Items Marked *)

CRAFTSMAN 4-CYCLE ENGINE

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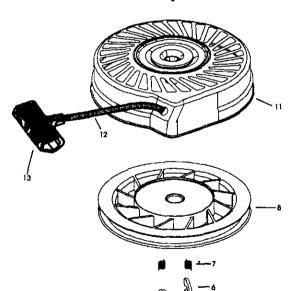
KEY NO.	PART NO.	DESCRIPTION
	- 590694	Recoil Starter
1	590599A	Spring Pin (Incl. 4)
2 3	590600	Washer
3	590696	Retainer
4 5	590601	Washer
	590697	Brake Spring
6	590698	Starter Dog
7	590699	Dog Spring
8	590700	Pulley & Rewind Spring Ass'y.
11	590695	Starter Housing Ass'y.
		(40 degree grommet
12	590535	Starter Rope (98" X 9/64" dia.)
13	590701	Starter Handle

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MODEL NUMBER 143.006008





KEY NO.	PART NO.	DESCRIPTION
	590737	Rewind Starter
3 6	590740	Retainer
5	590616	Starter Dog
7	590617	Dog Spring
8	590618A	Pulley & Rewind Spring Ass'y
11	590687A	Starter Housing Ass'y
		(40 degree grommet)
12	590535	Starter Rope
		(Length 98" x 9/64" dia.)
13	590701	Starter Handle
14	590760	Spring Clip
•••	000100	opinia one

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