Owner's Manual

CRAFTZMAN

6.0 HORSEPOWER 21" REAR DISCHARGE ROTARY LAWN MOWER

Model No. 917.388020



- 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 anyone enters the area.

- 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.

▲Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETYIS INVOLVED.

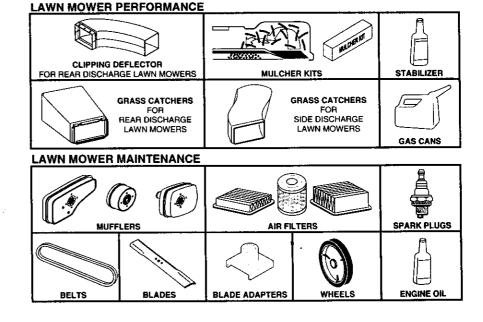
A CAUTION: In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot contact spark plug.

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

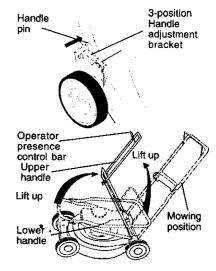
- Remove loose parts included with mower
- Cut down two end corners of carton and lay end panel down flat.
- Remove all packing materials except padding between upper and lower handle and padding holding operator presence control bar to upper handle.
- Roll lawn mower out of carton and check carton thoroughly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





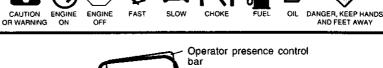


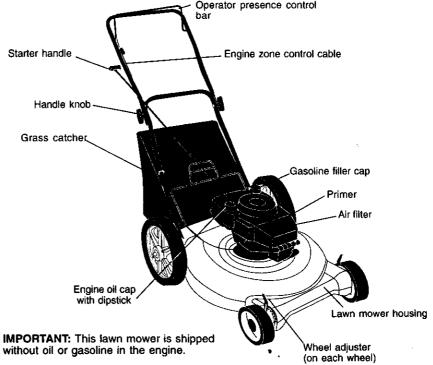












MEETS CPSC SAFETY REQUIREMENTS

Sears rotary walk-behind power lawn mowers conform to the safety standards of the American National Standards Institute and the U.S. Consumer Product Safety Commission. The blade turns when the engine is running.

Operator Presence Control Bar- must be held down to the handle to start the engine. Release to stop the engine.

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 eve 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 adjust-

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.

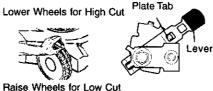
Your lawn mower is equipped with an operator presence control bar which requires the operator to be positioned behind the lawn mower handle to start and operate the lawn mower

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

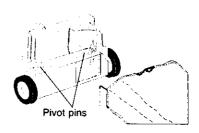


TO CONVERT MOWER

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

REAR BAGGING

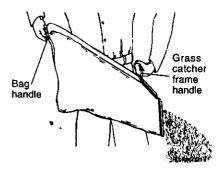
- · Lift rear door of the lawn mower and place the grass catcher frame hooks onto the door pivot pins.
- · To convert to mulching operation, remove grass catcher and close rear door.



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

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.

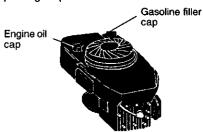
ACAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

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.



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.

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.



MAINTENANCE

	MAINTENANCE SCHEDU FILL IN DATES AS YOU COMPLETE REGULAR SERVICE	JLE		REAC METER	HUSE 195 EACH 10 Y EACH 10 Y EACH 10 Y	OURS N 22 FRY R EVERY R EVERY	RESON SEASON ORE STO	RVICE	DATES
┢	Check for Loose Fasteners Clean/Inspect Grass Catcher (If Equipped)	7	,		~ ~ ~	7			
MO	Clean Lawn Mower Clean Under Drive Cover (Power-Propelled Mowers)		V			Ž	+-		
W E	Check drive belt/pulleys (Power-Propelled Mowers)				V				
R	Check/Sharpen/Replace Blade Lubrication Chart				√ 3	V			
L	Clean Battery/Recharge (Electric Start Mowers)				V	1			
ĺΕ	Check Engine Oil Level	1							
IN	Change Engine Oil				1 1,2				
G	Clean Air Filter				√ 2				
1	Inspect Muffler				V				
N	Clean or Replace Spark Plug				V				
ĮΕ	Replace Air Filter Paper Cartridge	1	1		V 2	1 1			

- Change more often when operating under a heavy load or in high ambient temperatures.
 Service more often when operating in dirty or dusty conditions.
 Replace blades more often when mowing in sendy soil.
 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 Wheel **(1)** adjusters Brake spring \odot bracket 2 Engine oil 1 Rear 1 Handle bracket

• hinge 1 SPRAY LUBRICANT

door

SAE 30 MOTOR OIL. REFER TO ENGINE - MAINTENANCE SECTION.

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.

mounting pin

PRODUCT SPECIFICATIONS

SERIAL NUMBER		
DATE OF PURCHASE		
GASOLINE CAPACITY/TYPE:	1.5 QUARTS UNLEADED REGULAR	
OILTYPE (API-SF/SG/SH):	SAE 30 (ABOVE 32°F) SAE 5W-30 (BELOW 32°F)	
OIL CAPACITY:	20 OZ\$.	
SPARK PLUG(GAP: .030")	CHAMPION RJ19LM OR J19L	_M
VALVE CLEARANCE:	INTAKE: .004008 EXHAUST: .004008	
SOLID STATE IGNITION AIR GAP:	.0125 IN.	
BLADE BOLT TORQUE:	35-40 FT. LB\$.	
 The model and serial numbers will be lawn mower housing. Record both se provided above. 	e found on a decal attached to the re erial number and date of purchase in	ear of the space

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.

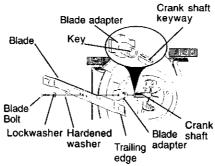
IMPORTANT: Blade bolt is grade 8 heat treated.

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.



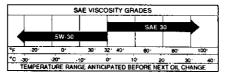
GRASS CATCHER

- The grass catcher may be hosed with water, but must be dry when used.
 Check your grass catcher often for damage
- 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

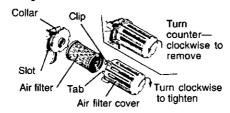


Your engine will not run properly and may be damaged by using a dirty air filter. Replace the air filter every year, more often if you mow in very dusty, dirty conditions. Do not wash air filter.

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.

ACAUTION: 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**

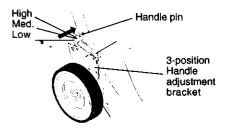
The rear deflector, attached between the rear wheels of your lawn mower, is provided to minimize the possibility that objects will be thrown out the rear of the lawn mower into the operator's mowing position.

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

TO ADJUST HANDLE

The handle on your lawn mower has three (3) height positions - adjust to height that suits you.

 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.

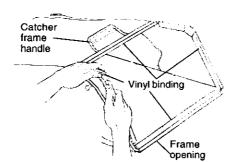


TO ASSEMBLE GRASS CATCHER

 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.

LAWN MOWER

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.

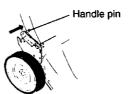
Clean entire lawn mower (See "CLEAN-

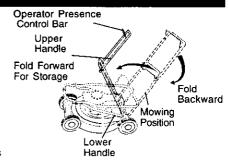
- Clean entire lawn mower (See "CLEAN-ING" in the Maintenance section of this manual).
- Lubricate as shown in the Maintenance section of this manual.
- Be sure that all nuts, bolts, screws, and pins are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch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

HANDLE

- You can fold your lawn mower handle for storage.
- Loosen the two (2) handle knobs on sides of the upper handle and allow handle to fold down to the rear.
- Squeeze the bottom ends of lower handle toward each other until pins in handle clear the brackets and pivot entire handle assembly forward and allow it to rest on mower.
- When setting up your handle from the storage position, the lower handle will require manually locking into the mowing position.

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





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
- · 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.

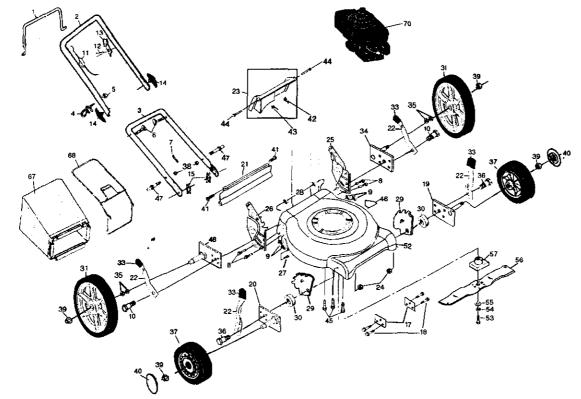
TROUBLESHOOTING CHART

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

TROUBLESHOOTING CHART

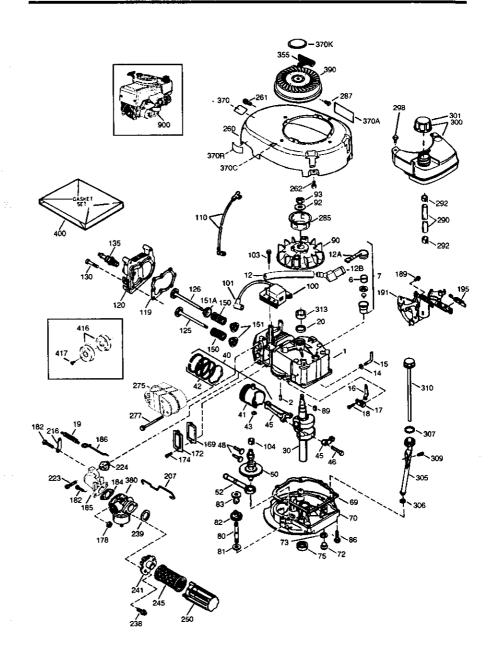
PROBLEM	CAUSE	CORRECTION
Poor cut – uneven	 Worn, bent or loose blade. Wheel heights uneven. Buildup of grass, leaves and trash under mower. 	Replace blade. Tighten blade bolt. Set all wheels at same height Clean underside of mower housing.
Excessive vibration	Worn, bent or loose blade. Bent engine crankshaft.	Replace blade. Tighten blade bolt. Contact an authorized service center.
Starter rope hard to pull	 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	1. Raise cutting height. 2. Raise rear of lawn mower housing one (1) setting higher. 3. Empty grass catcher. 4. Adjust handle height to right for you.suit.





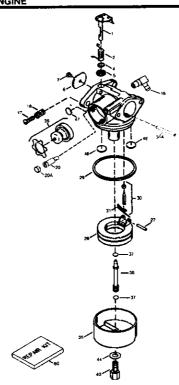
CRAFTSMAN ROTARY LAWN MOWER -- MODEL NO. 917.388020

	KEY NO.	PART NO.	DESCRIPTION	KE NC	 PART NO.	DESCRIPTION
	1	131696	Control Bar	33	87877	Selector Knob
	2	166860X479		34	167130X004	
	3	161105X479		35	57143	Wave washer
	4	132001	Rope Guide	36	160828	Shoulder Bolt 5/16-18
	5	63601	Locknut 1/4-20	37	151162	Wheel Assembly
	6	131959	Handle Bolt	38	73990500	Nut
	7	66426	Wire Tie	39	83923	Flanged Locknut
	8	74780512	Hex Bolt 5/16-18 x 3/4	40	77400	Hubcap
	9	166785	Locknut 5/16-18	41	88652	Hinge Screw
	10	164362	Shoulder Bolt	42	165766	Spring (LH)
	11	156577	Engine Zone Control Cable	43	165767	Spring (RH)
	12	750097	Hex Washer Head Screw #10-24 x 1/2	44	165912	Door Bolt
	13	850733X004	Up-Stop Bracket	45	150406	Hex Head Thread Rolling Screw 3/8-16 x 1
	14	136376	Handle Knob	46	85463	Danger Decal
	15	51793	Hairpin Cotter	47	161551	Adjustment Bolt
မ္တ	17	165946X479		48	167131X004	
ഗ	18	17600406	Screw	52	166872	Housing Assembly (Incl. Ref. #17, 18 & 46)
	19	167132X004	Axie Arm Assembly - LF	53	851084	Hex Head Screw 3/8-24 x 1-3/8 Grd. 8
	20	167133X004	Axle Arm Assembly - RF	54	850263	Helical Lockwasher
	21	165858	Rear Skirt	55	851074	Hardened Washer
	22	168360X004	Selector Spring	56	165833	21" Blade
	23	166875	Rear Door Assembly Kit (Incl. Springs)	57	851514	Blade Adapter
	24	751153	Locknut 5/16-18	67	166113	Grass Bag
	25	166236X479	Handle Bracket Assembly (Left)	68	165755	Catcher Frame
	26	166243X479	Handle Bracket Assembly (Right)	70		Engine - (See Breakdown) Craftsman 143,006206
		851856	Screw 1/4-20 x 3/8		161058	Warning Decal (Not Shown)
	28	63124	Nut		175116	Owner's Manual
	29	160835X007	Wheel Adjusting Bracket - Front			
	30	19112222	Spacer			
	31	151161	Wheel			

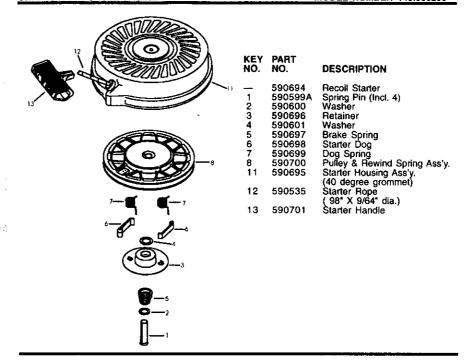


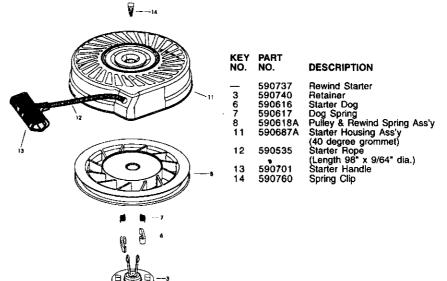
CRAFTSMAN 4-CYCLE ENGINE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	37266	Cylinder (Incl. 2,20 & 150)	172	36784	Valve Cover
2	26727	Dowel Pin_	174	30200	Screw, 10-24 x 9/16"
6	33734	Breather Element	178	29752	Nut & Lock Washer, 1/4-28
7	36557	Breather Ass'y. (Incl. 6 & 12A)	182	6201	Screw, 1/4-28 x 7/8*
12	36775	Breather Tube	184	26756	Carburetor To Intake Pipe
IZA	36558	Breather Cover & Tube (Incl. 12B)	405	00705	Gasket P
12R	36694	Breather Tube Elbow	185 186	36785	Intake Pipe
14	28277	Washer	189	32653 650839	Governor Link Screw, 1/4-20 x 3/8"
15	30589	Governor Rod (Incl. 14)	191	36559A	S.E. Brake Bracket (Inct. 195)
16	34839A	Governor Lever	195	610973	S.E. Brake Bracket (Incl. 195) Terminal
17	31335	Governor Lever Clamp	207	34336	Throttle Link
18	651018	Screw, Torx T-15,	216	33086	R.P.M. Adjusting Lever
19	36281	8-32 x 19/64" Extension Spring	223	650451	Screw, 1/4-20 x 1"
20	32600	Oil Seal	224 238	36786	Intake Pipe Gasket P
30	36776	Crankshaft	239	650932 34338	Screw, 10-32 x 49/64" Air Cleaner Gasket P
40	40004	Piston, Pin & Ring Set (Std.)	241	35797	Air Cleaner Collar
40	40005	Piston, Pin & Ring Set	245	35066	Air Cleaner Filter
		(.010" OS)	250	35065	Air Cleaner Cover
41	36070	Piston & Pin Ass'y. (Std.)	260	36980	Blower Housing
41	36071	(Incl. 43) Piston & Pin Ass'y (010" OS)	261	30200	Screw, 10-24 x 9/16" Screw, 1/4-20 x 1/2"
41	36071	Piston & Pin Ass'y. (.010" OS) (Incl. 43)	262	650831	Screw, 1/4-20 x 1/2"
42	40006	Ring Set (Std.)	275 277	36790A 650988	Muffler Screw, 1/4-20 x 2-5/16"
42	40007	Ring Set (.010" OS)	285	35000A	Starter Cup
43	20381	Piston Pin Retaining Ring	287	650926	Screw, 8-32 x 21/64"
45	36777	Connecting Rod Ass'y.	290	29774	Fuel Line
40	000404	(Incl. 46)	292	26460	Fuel Line Clamp
46 48	32610A	Connecting Rod Bolt Valve Lifter	298	28763	Screw, 10-32 x 35/64"
50	27241 37460	Camshaft (Exhaust MCR)	300	36916	Fuel Tank (Incl. 292 & 301)
50	01400	(Inc. ref 104)	301 305	36246 35647	Fuel Cap Oil Fill Tube
52	29914	Oil Pump Ass'y.	306	36996	"O"-Ring P
69	35261	Oil Pump Ass'y. Mounting Flange Gasket P	307	35499	"O"-Ring
70	34311E	Mounting Flange	309	650562	Screw, 10-32 x 1/2"
70	00570	(Incl. 72 thru 83,306)	310	35648	Dipstick
72 73	30572 28833	Oil Drain Plug (Incl. 73) Drain Plug Gasket	313	34080	Spacer
75	27897	Oil Seal	355	590701 36261	Starter Handle (Black)
80	30574A	Governor Shaft	3700	37318	Identification Decal Primer Decal (3 X)
81	30590A	Washer	370H	36695	Starter Decal
82	30591	Governor Gear Ass'y.		37317	Warning Decal
	205004	(Incl. 81)	371	37269	6.5 H.P. Craftsman Decal
83 86	30588A 650488	Governor Spool Screw, 1/4-20 x 1-1/4"	380	640262	Carburetor (Incl. 184)
89	611004	Flywheel Key	390 400	590737 36792B	Rewind Starter Gasket Set
90	611112	Flywheel	400	30/920	(Incl. Items Marked*)
92	650815	Bélleville Washer	416	36085	Spark Arrestor Kit
93	650816	Flywheel Nut		*****	(Incl. 417)(Optional)
100	34443C	Solid State Ignition	417	650821	(Incl. 417)(Optional) Screw, 10-32 x 1/2" (Optional)
101	610118	Spark Plug Cover	900	- -	Replacement Engine NONE - Replacement S/B 750860,
103	651007	Screw, Torx T-15, 10-24 x 15/16*	900		- Heplacement S/B 750860,
104	37480	Cam Bushing			order from 7 1-999 - RPM High 2900 to 3200
110	37047	Ground Wire			- 111 W Thgit 2500 to 5200
119	36787	Cylinder Head Gasket P	NOT	E: This end	gine could have been built with
120	36825	Cylinder Head		94 starter.	•
125	37288	Exhaust Valve (Std.)	NOT	E: All comp	onent dimensions given in U.S.
126	37289	(Incl. 151)	inche	s 1 inch =	25.4 mm
130	6021A	Intake Valve (Std.) (Incl. 151) Screw, 5/16-18 x 1-1/2"			
135	35395	Resistor Spark Plug (RJ19LM)			
150	31672	Valve Spring			
151	31673	Valve Spring Valve Spring Cap			
	4 40017	Intake Valve Seal			
169	36783	Valve Cover Gasket P			



KEY NO.	PART NO.	DESCRIPTION
_	640262 631615	Carburetor (Incl. 184 of Engine Parts List) Throttle Shaft & Lever Assembly
9	631767	Throttle Return Spring
4		Dust Seal Washer
5	631183	Dust Seal (Throttle)
1 2 4 5 6 7	640070	Throttle Shutter
Ž		Shutter Screw
16	631807	Fuel Fitting
17	651025	Throttle Crack Screw/Idle Speed Screw
18	630766	Tension Spring
	640018	Idle Restrictor Screw
20A		Idle Restrictor Scrwe Cap (Black)
25		Float Bowl Float Shaft
27	631024 * 632019	Float
		Float Bowl "O" Ring
30		Inlet Needle, Seat, & Clip (Incl. 31)
31		Spring Clip
35		Primer Bulb/Retainer Ring
36	640080	Main Nozzle Tube
36A		Carburetor Tube
37		"O" Ring, Main Nozzle Tube
	640175	High Speed Bowl Nut
	27110A :	Bowl Nut Washer
	630748 *	
48 60	631027 * 632760B	Welch Plug, Atmospheric Vent Repair kit (Incl. Items Marked *)
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