

CRAFTSMAN® 5.5 HORSEPOWER 20" CAST CONVERTIBLE ROTARY LAWN MOWER

Model No. 917.387070



- Assembly
- Operation
- Maintenance
- Español
- Repair Parts



For answers to your questions about this product: Call 7 am—7 pm, Mon—Sat; Sun, 10 am—7 pm **1-800-235-5878**

CAUTION:

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

Sears, Roebuck and Co., Hoffman Estates, IL 60179

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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 th 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.

SAFETY RULES

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

TRAINING:

- Read this operator's manual carefully. Become familiar with the controls and know how to operate your mower properly. Learn how to quickly stop mower.
- Do not allow children to use your mower. Never allow adults to use mower without proper instructions.
- Keep the area of operation clear of all persons, especially small children and pets.
- Use mower only as the manufacturer intended and as described in this manual.
- Do not operate mower if it has been dropped or damaged in any manner. Always have damage repaired before using your mower.

- Do not use accessory attachments that are not recommended by the manufact turer. Use of such attachments may be hazardous.
- The blade turns when the engine is running.

PREPARATION:

- Always thoroughly check the area to b mowed and clear it of all stones, sticks wires, bones, and other foreign object. These objects will be thrown by the blade and can cause severe injury.
- Always wear safety glasses or eye shields when starting and while using your mower.
- Dress properly. Do not operate mowe when barefoot or wearing open sanda Wear only solid shoes with good tracti when mowing.

Back Cov

- Check fuel tank before starting engine. Do not fill gas tank indoors, when the engine is running or when the engine is hot. Allow the engine to cool for several minutes before filling the gas tank. Clean off any spilled gasoline before starting the engine.
- Always make wheel height adjustments before starting your mower. Never attempt to do this while the engine is running.
- Mow only in daylight or good artificial light.

OPERATION:

- Keep your eyes and mind on your mower and the area being cut. Do not let other interests distract you.
- Do not mow wet or slippery grass. Never run while operating your mower. Always be sure of your footing - keep a firm hold on the handles and walk.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Always stop the engine whenever you leave or are not using your mower, or before crossing driveways, walks, roads, and any gravel-covered areas.
- Never direct discharge of material toward bystanders nor allow anyone near the mower while you are operating it.
- Before cleaning, inspecting, or repairing your mower, stop the engine and make absolutely sure the blade and all moving parts have stopped. Then disconnect the spark plug wire and keep it away from the spark plug to prevent accidental starting.
- Do not continue to run your mower if you hit a foreign object. Follow the procedure outlined above, then repair any damage before restarting and operating you mower.
- Do not change the governor settings or overspeed the engine. Engine damage or personal injury may result.
- Do not operate your mower if it vibrates abnormally. Excessive vibration is an indication of damage; stop the engine, safely check for the cause of vibration and repair as required.
- Do not run the engine indoors. Exhaust fumes are dangerous.

- Never cut grass by pulling the mower towards you. Mow across the face of slopes, never up and down or you might lose your footing. Do not mow excessively steep slopes. Use caution when operating the mower on uneven terrain or when changing directions maintain good footing.
- Never operate your mower without proper guards, plates, grass catcher or other safety devices in place.

MAINTENANCE AND STORAGE:

- Check the blade and the engine mounting bolts often to be sure they are tightened properly.
- Check all bolts, nuts and screws at frequent intervals for proper tightness to be sure mower is in safe working condition.
- Keep all safety devices in place and working.
- To reduce fire hazard, keep the engine free of grass, leaves or excessive grease and oil.
- Check grass catcher often for deterioration and wear and replace worn bags. Use only replacement bags that are recommended by and comply with specifications of the manufacturer of your mower.
- Always keep a sharp blade on your mower.
- Allow engine to cool before storing in any enclosure.
- Never store mower with fuel in the tank inside a building where fumes may reach an open flame or an ignition source such as a hot water heater, space heater, clothes dryer, etc.

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

WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

ACCESSORIES

These accessories were available when this lawn mower was produced. 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.



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ASSEMBLY

Read these instructions and this manual in its entirety before you attempt to assemble or operate your new lawn mower. Your new lawn mower has been assembled at the factory with the exception of those parts left unassembled for shipping purposes. All parts such as nuts, washers, bolts, etc., necessary to complete the assembly have been placed in the parts bag. 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.

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 handles until lower handle section locks into place in mowing position.
- Remove protective padding, raise upper handle section into place on lower handle and tighten both handle knobs.
- Remove handle padding holding operator presence control bar to upper handle.
- Your lawn mower handle can be adjusted for your mowing comfort. Refer to "Adjust Handle" in the Service and Adjustments section of this manual.



Lower Handle

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.

MULCHER DOOR - allows conversion to discharge or bagging operation.

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

STARTER HANDLE - used for starting the engine.

ENGINE SPEED CONTROL LEVER - located on the side of the engine which allows you to select either fast or slow engine speed.

HOW TO USE YOUR LAWN MOWER ENGINE SPEED CONTROL

The engine speed is controlled by a lever ocated on the side of the engine. Fast position is for starting engine, normal cutting and better grass bagging. Slow position is for light cutting, trimming and uel economy.



ENGINE ZONE CONTROL

CAUTION: Federal regulations require an engine control to be installed on this lawn mower in order to minimize the risk of blade contact injury. Do not under any bircumstances 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





CAUTION: Do not operate your lawn mower without mulcher door in locked position, discharge deflector in place, or approved grass catcher in place.

NOTE: Your lawn mower has been shipped ready for mulching operation. To convert to discharging operation, you must install the discharge deflector attachment included with your mower.

TO INSTALL DISCHARGING DEFLECTOR

- Unlock mulching door by lifting door latch as shown.
- Lift door upward on it's hinge until the deflector frame can be hooked over the door mounting bracket as shown.
- Release the door to rest against deflector frame.
- To return to mulching operation, reverse the above steps and be sure door is in locked position.



BEFORE STARTING ENGINE OIL

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 w/dipstick and fill to the full line on the dipstick.
- Use 20 ozs. of oil. For type and grade of oil to use, see "ENGINE" in Customer Responsibilities 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.

GAS

 Fill gasoline tank with fresh, clean, unleaded gasoline. DO NOT USE PREMIUM GASOLINE. BE CAREFUL NOT TO OVER FILL TANK.

WARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the fuel tank, start the engine and let it run until 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 fuel tank or permanent damage may occur.



TO START ENGINE

- To start a cold engine, push primer five (5) 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.
- Push engine speed control lever to fast position.
- Hold operator presence control bar dowr 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.

MOWING TIPS

- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings.
- For extremely heavy cutting, reduce the width of cut 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.
- For side discharge lawn mowers, cutting in a counter-clockwise direction, starting at the outside of the area to be cut, spreads grass clippings more evenly and puts less load on the engine. To keep clippings off of walkways, flower beds, etc., make the first cuts in a clockwise direction.
- 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.





CUSTOMER RESPONSIBILITIES



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, clean or 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.

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. 10

LUBRICATION

Keep unit well lubricated.



① Spray Lubricant

2 Refer to Maintenance "Engine" Section.

PRODUCT SPECIFICATIONS

MODEL NUMBER	917.387070
SERIAL NUMBER	
DATE OF PURCHASE	
HORSEPOWER:	5.5
DISPLACEMENT:	11.5 CU. IN.
GASOLINE CAPACITY/ TYPE:	1.5 QUARTS
	UNLEADED REGULAR
OIL TYPE (API-SF/SG/SH):	SAE 30 (ABOVE 32°F)
	SAE 5W-30 (BELOW 32°F)
OIL CAPACITY:	20.OZS.
SPARK PLUG(GAP: .030*)	CHAMPION RJ19L
VALVECLEARANCE:	INTAKE: .004008
	EXHAUST: .004008
SOLID STATE IGNITION	
AIR GAP:	.0125 IN.
BLADE BOLT TORQUE:	35-40 FT. LBS.
 The model and serial numbers will be fo lawn mower housing.Record both serial provided above. 	und on a decal attached to the rear of the number and date of purchase in space

LAWN MOWER

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. Crankshaft



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. Use a 9/16" box or open-end wrench.
- 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.

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

TO SHARPEN BLADE

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, SG, or SH. 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 as shown 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 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 a fire 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 the underside of your mower 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 shortening engine life.

SERVICE AND ADJUSTMENTS

CAUTION: Before performing any service or adjustments:

- · Release control bar.
- 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

REAR DEFLECTOR

The rear deflector, attached between the ear wheels of your mower, is provided to ninimize the possibility that objects will be hrown out of the rear of the mower into the operator mowing position. If the deflector becomes damaged, it should be replaced. **TO ADJUST HANDLE**

Your lawn mower handle can be raised or owered for your mowing comfort. Four (4) positions are available: high, medium high, nedium low and low. Handles are shipped nounted in the medium low position.

- To change from medium low to medium high position, the upper and lower handle sections will have to be turned over.
- Remove the cable clips.
- Remove the controls and operator presence control bar from the upper handle.

- Remove hairpin cotters.
- Disconnect the lower handle from the handle brackets.
- Turn the handle over and reassemble the hairpin cotters that have been removed.
- Route cable(s) below crossbar of lower handle and reassemble the controls and the operator presence control bar to the upper handle.

Shipping Position



CAUTION: The operator presence control bar must pivot freely to permit blade/ brake engagement when control bar is released. Do not overtighten the fasteners holding the controls to the upper handle.

• To change from medium low to high position only the upper handle section will have to be turned over.

• To change from medium low to low position, only the lower handle section will have to be turned over.

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 Sears service center for repair and adjustment.

ENGINE SPEED

The engine speed has been factory set. Do not attempt to increase engine speed as it may result in personal injury. If you believe the engine is running too fast or too slow, take your lawn mower to an authorized Sears 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-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 transportation, be sure to fold the handle as shown or you may damage the control cables.



Fold Backwai

Mowing Position

Lower Handle

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 srtorage. 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 Maintentance section of this manual).

TROUBLESHOOTING CHART

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.

CAUTION: 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.

PROBLEM	CAUSE	CORRECTION
Does not start	Dirty air filter.	Clean/replace air filter.
	Out of fuel.	Fill fuel tank.
	• Stale fuel.	Drain tank and refill with fresh clean fuel.
	Water in fuel.	Drain fuel tank and carburetor and refill tank with fresh gasoline.
	 Spark plug wire is disconnected. 	Connect wire to plug.
	 Bad spark plug. 	Replace spark plug.
	Loose blade or broken blade adapter.	Tighten blade bolt or replace blade adapter.
	 Control bar in released position. 	 Depress control bar to handle.
	 Control bar defective. 	Replace control bar.

TROUBLESHOOTING CHART

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

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ROTARY LAWN MOWER MODEL NO. 917.387070

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REPAIR PARTS

ROTARY LAWN MOWER MODEL NO. 917.387070

KI N(EY D.	PART NO.	DESCRIPTION	KEN NO.		PART NO.	DESCRIPTION
1 2 3 4 6 7 8 9 10 12 13 14 15 16 17 18 19 20 1 22 34 6 7 8 9 10 12 13 14 15 16 17 18 19 20 12 23 4 5 6 8 9 30 33 34 5 6 7 8 9 10 12 13 14 5 6 7 8 9 10 12 13 14 5 6 7 8 9 10 12 13 14 5 6 7 8 9 10 12 13 14 5 6 7 8 9 10 12 13 14 5 6 7 8 9 10 12 13 14 5 6 7 8 9 10 12 13 14 5 6 7 8 9 10 12 13 14 5 16 7 8 9 10 12 13 14 5 16 7 8 9 10 12 13 14 5 16 7 8 9 10 12 13 14 5 16 7 8 9 10 12 13 14 5 16 7 8 9 10 12 13 14 5 16 7 8 9 10 12 13 14 5 16 7 8 9 10 12 13 14 5 16 7 7 8 9 10 21 2 22 22 22 22 22 22 22 22 23 33 33 33 3	86902 14564	6X479 6X479 8 9 3X004 7 7 6 12505 7 0 X004 7x479 5x479 6X479 6X479 6X479 6X479 5X007 0 1X004 7 4 2 3X004 8 8	Control Bar Upper Handle Lower Handle Rope Guide Locknut 1/4-20 Handle Bolt Up-Stop Bracket Hex Thread Rolling Screw #10-24 x 3/4 Engine Zone Control Cable Cable Clip Hairpin Cotter Handle Knob Flat Washer 3/8 Hex Head Self Tapping Screw 1/4-20 x 1/2 Support Rod Rear Deflector Deflector Bracket Handle Bracket Assembly (Left) Handle Bracket Assembly (Left) Handle Bracket (Left) Support Bracket (Left) Support Bracket (Right) Wheel Adjuster Bracket Spacer Selector Spring Selector Knob Torsion Spring Housing Bracket Assembly Hinge Rod Discharge Guard Axte Arm Assembly (Rear) Spring Washer (Rear) Shoulder Bolt 3/8-16 Belleville Washer Wheel & Tire Assembly (Rear) Axte Arm Assembly (Rear)	42 43 44 45 47 48 49 51 55 57 58 59 60 61 64 65 66 67 68 69 70 71	57 83 15 74 85 85 85 85 15 15 15 74 85 85 15 15 74 75 75 15 8 8 15 74 85 85 15 15 15 15 15 15 15 15 15 15 15 15 15	143 1923 1923 1923 1923 10182 760612 9741 463 10541425 0406 420 1514 2202 1074 0263 1084 2904 1440 3350x479 3282x479 180410 1399 2118 6564 1399 2118 6564 1399 2118 6564 1399 233201 33623 33500 33300	Wave Washer Locknut 3/8-16 Hubcap Hex Head Bolt 3/8-16 x 3/4 Screw 5/16-18 x 3/4 Danger Decal Locknut 1/4-20 Hex Head Thread Rolling Screw 3/8-16 x 1 Lawn Mower Housing (Incl. Ref. #20, 47, 48, 53, 54) Blade Adapter 22" Blade Washer Helical Hardened Lockwasher 3/8 Hex Head Machine Screw 3/8-24 x 1/4 Grd. 8 Engine - (See Breakdown) Craftsman Model 143.975506 Decal Hubcap Bracket Support Handle (Right) Bracket Support Handle (Left) Screw Bracket Clipping Deflector Owner's Manual (English/Spanish) ot included with lawn mower: Grass Catcher Mulcher Kit Gas Can (2.5 gal.) Fuel Stabilizer SAE 30W Oil (20 oz.) Mower Cover
40	15034		Wheel & Tire Assembly (Front)				



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CRAFTSMAN 4-CYCLE ENGINE

CHA	FI SMAN	4-CTCLE ENGINE		MU	DEL NUMBER 143.975506
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	36478A	Cylinder (Incl. 2,7,20 & 125)	18965083	90	Screw, 1/4-20 x 3/8"
2	26727	Dowel Pin	19136559		S.E. Brake Bracket (Incl. 195)
6	33734	Breather Element	19561097		Terminal
7	36557	Breather Ass'y. (Incl. 6 & 12A)	20035727		Control Bracket (Incl. 202 thru
12A	36558	Breather Cover & Tube (Incl. 12B)			205)
12B	34695	Breather Tube Elbow	20236482	2	Compression Spring
14 15	28277 30589	Washer Governor Red (Incl. 14)	20331342		Compression Spring
16	32651	Governor Rod (Incl. 14) Governor Lever	20465054		Screw, 5-40 x 7/16"
17	31335	Governor Lever Clamp	20565077 20734336		Screw, 6-32 x 21/32"
18	651018	Screw, Torx T-15, 8-32 x 19/64"	20930200		Throttle Link
19	36281	Extension Spring	21532410		Screw, 10-24 x 9/16" Control Knob
20	32600	Oil Seal	2236504		Screw, 1/4-20 x 1"
30	35996	Crankshaft	2243469		* Intake Pipe Gasket
40	36073	Piston, Pin & Ring Set (Std.)	2386509	32	Screw, 10-32 x 49/64
40	36074	Piston, Pin & Ring Set (.010" OS)	2393433		 Air Cleaner Gasket
40 41	36075 36070	Piston, Pin & Ring Set (.020" OS) Biston & Pin Assiv (Std.) (Incl. 42)	2413579		Air Cleaner Collar
41	36070	Piston & Pin Ass'y. (Std.) (Incl. 43) Piston & Pin Ass'y.	2100000		Air Cleaner Filter
	00071	(.010" OS) (Incl. 43)	2503506		Air Cleaner Cover
41	36072	Piston & Pin Ass'y.	2603691		Blower Housing Screw, 10-24 x 9/16"
		(.020" OS) (Incl. 43)	2626508		Screw, 1/4-20 x 1/2"
42	36076	Ring Set (Std.)	2753647		Muffler (Incl. 277)
42	36077	Ring Set (.010" OS)	2776509		Screw, 1/4-20 x 2-5/16"
42	36078	Ring Set (.020" OS)	2853500	DA	Starter Cup
43 45	20381 30963B	Piston Pin Retaining Ring	2876509		Screw, 8-32 x 21/64"
45	32610A	Connecting Rod Ass'y. (Incl. 46) Connecting Rod Bolt	2902977		Fuel Line
48	27241	Valve Lifter	2922646		Fuel Line Clamp
50	35992	Camshaft (MCR)	2982876		Screw, 10-32 x 35/64"
52	29914	Oil Pump Ass'y.	3013624		Fuel Tank (Incl. 292 & 301) Fuel Cap
69	35261	Mounting Flange Gasket	3053564		Oil Fill Tube
70	34311D	Mounting Flange (Incl. 72 thru 83)	3063683		* "O"-Ring
72	36083	Oil Drain Plug	3073549		"O"-Ring
75 80	27897 30574A	Oil Seal Governor Shaft	3096505		Screw, 10-32 x 1/2"
81	30590A	Washer	3103564		Dipstick
82	30591	Governor Gear Ass'y. (Incl. 81)	3133408 370A	36261	Spacer Lubrication Decal
83	30588A	Governor Spool	370B	35167	Control Decal
86	650488	Screw, 1/4-20 x 1-1/4"	370C	36861	Primer Decal
89	611004	Flywheel Key	370K	36695	Starter Decal
90	611112	Flywheel Belleville March -	3806327	47	Carburetor (Incl. 184)
92 93	650815 650816	Belleville Washer	3905906		Rewind Starter
10034		Flywheel Nut Solid State Ignition	4003648	1	Gasket Set
10161		Spark Plug Cover	4163608	c .	(Incl. Items Marked * in Notes)
10365		Screw, Torx T-15, 10-24 x 15/16"	4103000	0	Spark Arrestor Kit (Incl. 417)(Optional)
11034		Ground Wire	4176507	60	Screw, 8-32 x 3/8* (Optional)
11936		* Cylinder Head Gasket			Engine 750798,
12036		Cylinder Head		•	order from71-999
12536 12536		Exhaust Valve (Std.) (Incl. 151)	900— F	Replacement \$	S/B 750679A,
12000	4/2	Exhaust Valve (1/32" OS) (Incl. 151)			order from 71-999
12629	314B	Intake Valve (Std.) (Incl. 151)		-	RPM High 2900 to 3200
12629		Intake Valve (1/32* OS) (Incl.151)		-	RPM Low 2450 to 2750
13060	21A	Screw, 5/16-18 x 1-1/2"	(NOTE:	This engine o	ould have been built with 590737
13535		Resistor Spark Plug (RJ19LM)	starter. P	lefer to the de	sign of the rope pulley strength
15035		Valve Spring	ribs for p	art identification	on. Individual starter parts do not
15131		Valve Spring Cap	interchar	ige.) Incl. Parl	t #'s 26756 (1),27234A (1), 33735
16927		* Valve Cover Gasket	(1), 3683	2 (1) 34338 (1	1), 34690A (1), 35261 (1),
17232 17430		Valve Cover Screw, 10-24 x 9/16"	36477 (1)	
17829		Nut & Lock Washer, 1/4-28	NOTE.	\II	
18262		Screw, 1/4-28 x 7/8"	1 inch = 3		dimensions given in U.S. inches
18426		* Carburetor To Intake Pipe Gasket	t anyti ∞ (
18536		Intake Pipe			
18634	337	Governor Link			

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CRAFTSMAN 4-CYCLE ENGINE

MODEL NUMBER 143.975506

P	KEY NO.	PART NO.	DESCRIPTION
	_	632747	Carburetor (Incl. 184 of Engine Parts List)
	1	631615	Throttle Shaft & Lever Assembly
	2	631767	Throttle Return Spring
	4	631184	Dust Seal Washer
	5	631183	Dust Seal (Throttle)
	6	632504	Dust Seal (Throttle) Throttle Shutter
	7	650506	Shutter Screw
Th	16	631807	Fuel Fitting
j_∎ +=	25	631867	Float Bowl
	27	631024	Float Shaft
	28	632019	Float
•	. 4 29	631028	Float Bowt "O" Ring
	30	631021	Inlet Needle, Seat, & Clip (Incl. 31)
	31	631022	Spring Ćlip
	35	36045	Primer Bulb/Retainer Ring
	36	632735	Main Nozzle Tube
*	37	632547	"O" Ring, Main Nozzle
\sim			Tube
4~©	40	632736	High Speed Bowl Nut
• 10	44	27110	Bowl Nut Washer
	48	631027	Welch Plug, Atmospheric Vent
	KEY NO.	PART NO.	DESCRIPTION
		590694	Recoil Starter
	1	590599A	Spring Pin (Incl. 4)
	2	590600	Washer
	3	590696	Retainer
	4	590601	Washer
	5	590697	Brake Spring
	6	590698	Starter Dog
	7	590699	Dog Spring
•	8	590700	Pulley & Rewind Spring
			Ass'v.
	11	590695	Starter Housing Ass'y.
Ċ.			(40 degree grommet)
	12	590535	(40 degree grommet) Starter Rope (98" X 9/ 64" dia.)
			(40 degree grommet) Starter Rope (98" X 9/



KEY NO.	PART NO.
3 6 7 8	590737 590740 590616 590617 590618A
11	590687A
12	590535
13 14	590701 590741

DESCRIPTION

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Rewind Starter
Retainer
Starter Dog
Dog Spring
Dog opning
Pulley & Rewind Spring
Ass'y
Starter Housing Ass'y
(40 degree grommet)
Starter Rope
(Length 98" x 9/64" dia.)
Starter Handle
Locking Tab

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- Model Number
 Part Description



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