Owner's Manual

CRAFTSMAN[®] 3.5 HORSEPOWER 20" SIDE DISCHARGE ROTARY LAWN MOWER

Model No. 917.387010

- 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

TABLE OF CONTENTS

Warranty	2	Product Specifications	9
Safety Rules	2	Service and Adjustments	11
Assembly	4	Storage	12
Operation -	5	Troubleshooting	14
Maintenance Schedule	8	Repair Parts	30
Maintenance	8	Parts Ordering	Back Cover

WARRANTY

LIMITED ONE YEAR WARRANTY ON CRAFTSMAN POWER MOWER

For one year 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

Safety standards require operator presence controls to minimize the risk of injury. Your unit is equipped with such controls. Do not attempt to defeat the function of the operator presence controls under any circumstances.

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 manufacturer. Use of such attachments may be hazardous.
- The blade turns when the engine is running.

PREPARATION:

- Always thoroughly check the area to be mowed and clear it of all stones, sticks, wires, bones, and other foreign objects. 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 mower when barefoot or wearing open sandals. Wear only solid shoes with good traction when mowing.
- 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.

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

ACAUTION: 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.

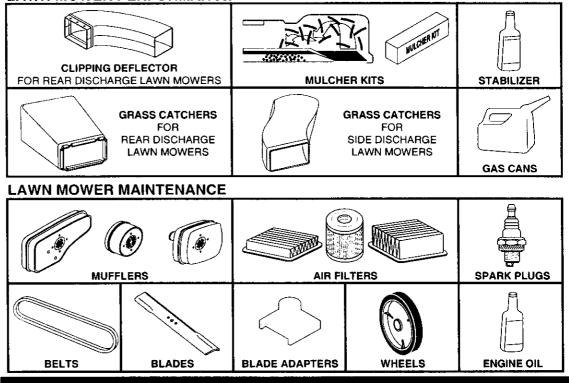
WARNING

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 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.

LAWN MOWER PERFORMANCE



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. 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

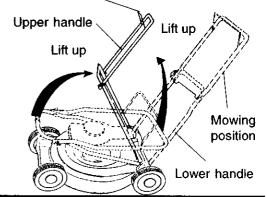
TO UNFOLD HANDLE

IMPORTANT: Unfold handles 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 Adjustment section of this manual.

Operator presence control bar

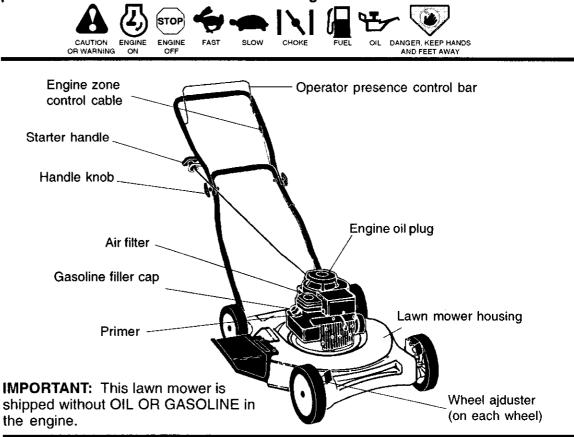


KNOW YOUR LAWN MOWER

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.

OPERATION

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 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



Raise wheels for low cut

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 plug and fill to the top of slot in filler hole.

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

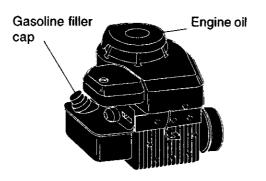
- Engine holds 20 ozs. of oil. For type and grade of oil to use, see "ENGINE" in maintenance section of this manual.
- Pour oil slowly. Do not over fill.
- Check oil level before each use. Add oil if needed.
- To read proper level, tighten engine oil plug each time.
- Reinstall engine oil plug and tighten.
- 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. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). 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.



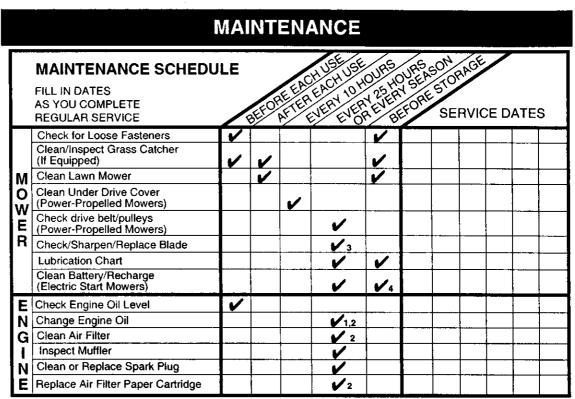
TO START ENGINE

- 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.
- 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.
- For side discharge tawn 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.



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.

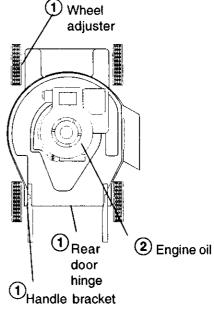
BEFORE EACH USE

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

LUBRICATION

Keep unit well lubricated (See "LUBRICA-TION CHART").

LUBRICATION CHART



- (1) Spray lubricant
- 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.

PRODUCT SPECIFICATIONS

SERIAL NUMBER		<u></u>
DATE OF PURCHASE		
GASOLINE CAPACITY/ TYPE:	1.0 QUARTS UNLEADED R	EGULAR
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 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 attached to the rear of the lawn mower housing. Record both serial number and date of purchase in space provided above.

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.

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.

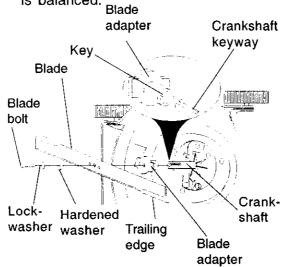
IMPORTANT: Blade bolt is grade 8 heat treated.

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. Bude



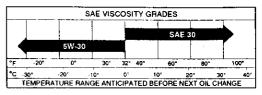
GRASS CATCHER

- (If purchased as an accessory)
- 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.

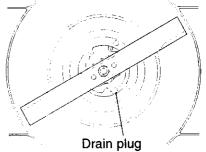


NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

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

- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with spark plug.
- Be sure lawn mower is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove bottom oil drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil. Pour slowly. Do not over fill.
- Fill to top of slot inside of filler hole.
- Reconnect spark plug wire to spark plug.



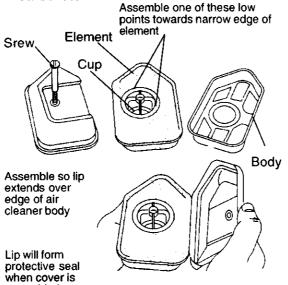
AIR FILTER

Your engine will not run properly and may be damaged by using a dirty air filter. Clean the element after every 25 hours of operation, more often if mower is used in very dusty, dirty conditions.

TO CLEAN AIR FILTER ELEMENT

- Remove screw.
- Remove air cleaner carefully to prevent
- 10 dirt from entering carburetor.

- Take air cleaner apart and clean air filter element.
- Wash filter element in liquid detergent and water.
- Wrap filter element in cloth and squeeze dry.
- Lightly coat filter element with clean engine oil. Squeeze in towel to remove excess oil. Do not saturate.
- Reassemble parts and put back on carburetor.



assembled

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 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 plua.

- 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.

LAWNMOWER 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 mower, is provided to minimize the possibility that objects will be thrown out of the rear of the mower into the operator's mowing position. If the deflector becomes damaged, it should be replaced.

DISCHARGE GUARD

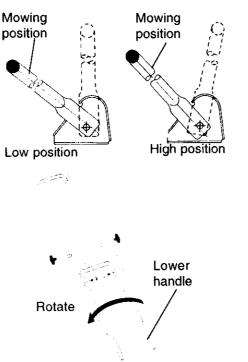
The discharge guard, attached to the discharge opening of your lawn mower, is provided to prevent the possibility of injury resulting from objects being thrown out of the discharge opening into the operator mowing position. If the discharge guard becomes damaged, it should be replaced.

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. 11

- Squeeze lower handle in and position holes onto mounting pins on handle bracket.
- Reassemble upper handle and all parts removed from lower handle.



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 "CLEANING" in the Maintenance 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**

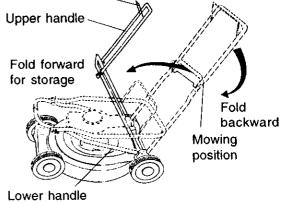
You can fold your lawn mower handle for storage.

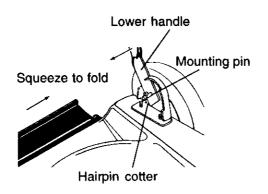
• Squeeze the bottom ends of the lower handle toward each other until the lower handle clears the handle bracket, then move handle forward. Loosen upper handle mounting bolts enough to allow upper handle to be folded back.

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

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

Operator presence control bar





ENGINE FUELSYSTEM

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.

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. Water in fuel. Spark plug wire is disconnected. Bad spark plug. Loose blade or broken blade adapter. 	 Clean/replace air filter. Fill fuel tank. Drain tank and refill with fresh clean fuel. Drain fuel tank and carburetor and refill tank with fresh gasoline. Connect wire to plug. Replace spark plug. Tighten blade bolt or replace blade adapter.
	 Control bar in released position. Control bar defective. 	 Depress control bar to handle. Replace control bar.
Loss of power	 Rear of lawn mower housing or cutting blade dragging in heavy grass. Cutting too much grass. 	 Set to "Higher Cut" position. Set to "Higher Cut" position.
	 Dirty air filter. Buildup of grass, leaves, and trash under mower. Too much oil in engine. Walking speed too fast. 	 Clean/replace air filter. Clean underside of mower housing. Check oil level. Cut at slower walking speed.
Poor cut – uneven	 Worn, bent or loose blade. Wheel heights uneven. Buildup of grass, leaves 	 Replace blade. Tighten blade bolt. Set all wheels at same height Clean underside of mower housing.

TROUBLESHOOTING CHART

	ROUBLESHOOTING CHART					
PROBLEM	CAUSE	CORRECTION				
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 				
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. 				

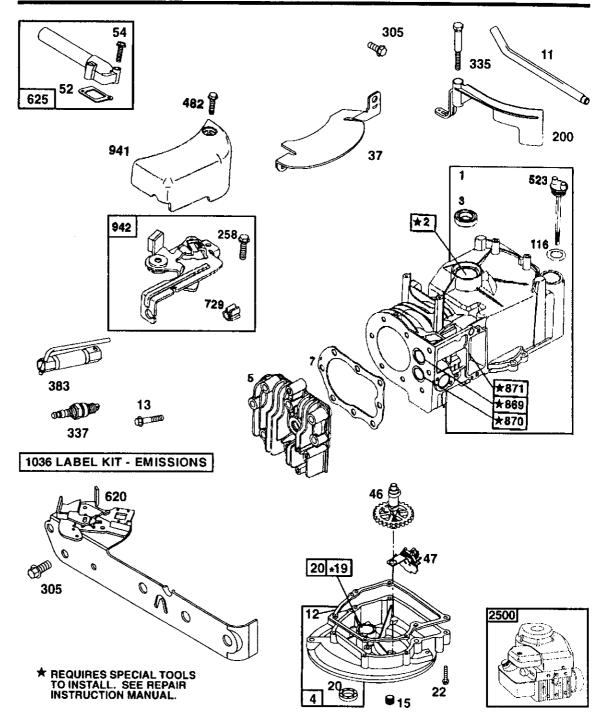
ROTARY LAWN MOWER -- MODEL NO. 917.387010

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	86902	Control Bar	36	700263	Wheel and Tire Assembly
2	153638	Rope Guide	37	83923	Nut
3	851201X004	Engine Washer	39	800090	Hubcap
4	165452X479	UpperHandle	41	149741	Thread Cutting Screw 5/16-18 x 3/4
5	157081X479	Lower Handle	42	85463	Danger Decal
7	131959	Handle Bolt 5/16-18 x 1-3/4	43	751592	Locknut 3/8-16
8	86899X004	Up-Stop Bracket	44	150406	Hex Head Thread Rolling Screw 3/8-16 x 1-1/8
9	750097	Hex Washer Head Screw #10-24 x 1/2	46	171778	Lawn Mower Housing
10	156569	Engine Zone Control Cable	49	851084	Hex Head Screw 3/8-24 x 1-3/8 (Grd.8)
12	66426	Wire Tie	50	850263	Helical Lock washer 3/8
13	51793	Hair Pin Cotter	51	851074	HardenedWasher
14	136376	STD. Knobs	52	850972	Blade 20
15	752052	Discharge Guard	53	850977	Blade Adapter
16	128415	Rivet	55	700839X479	Front Baffle
17	63601	Locknut 1/4-20	56		Engine (See Breakdown) Briggs and Stratton
19	851855	Torsion Spring			Model 9D902-2085-E1
21	88602	Hinge Deflector		173680	Owner's Manual
22	150215	Hinge Rod		161058	Warning Decal (Not Shown)
23	140543	Rear Deflector			
24	750085X007	Wheel Adjusting Bracket	Availa	ble accessories no	t included with lawn mower:
25	87584X004	Deflector Bracket		<u>71</u> 33077	Grass Catcher
26	170345X479	Handle Bracket Assembly (Right)		<u>71</u> 33623	Gas Can (2.5 gal.)
27	170346X479	Handle Bracket Assembly (Left)		<u>71</u> 33500	Fuel Stabilizer
28	61537	Washer		<u>71</u> 33300	SAE 30W Oil (20 oz.)
29	146630	Spacer		<u>71</u> 33417	Dust Shield
31	700331X004	Selector Spring		<u>71</u> 33316	MowerCover
32	87877	Selector Knob			
33	145935X479	Axle Arm Assembly			
34	62335	Belleville Washer			
35	142748	Shoulder Bolt			

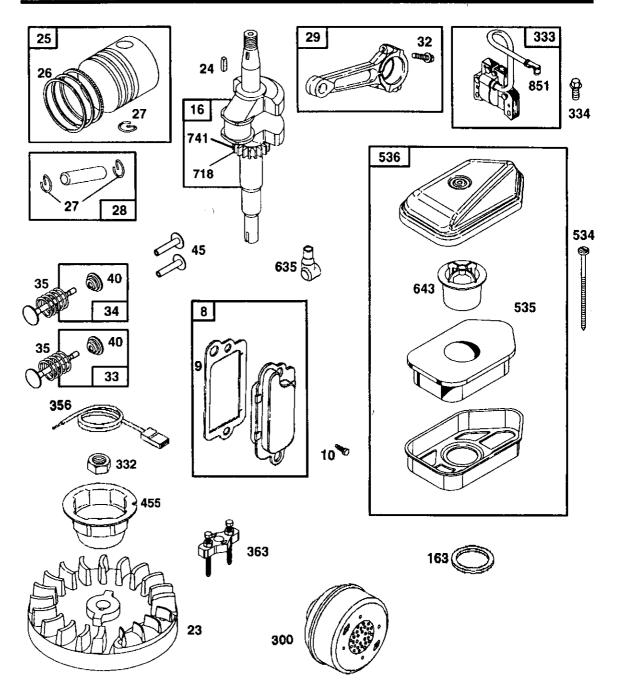
.

BRIGGS & STRATTON 4-CYCLE ENGINE

MODEL NUMBER 9D902-2085-E1

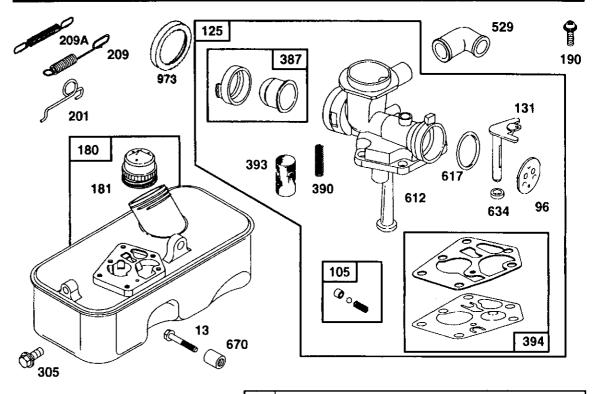


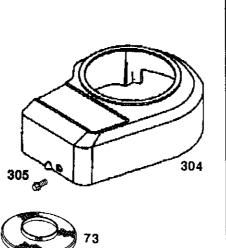
BRIGGS & STRATTON 4-CYCLE ENGINE

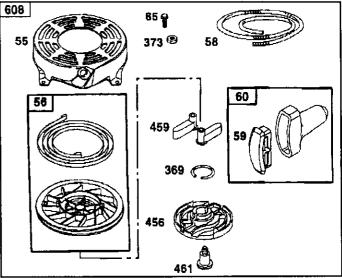


33

MODEL NUMBER 9D902-2085-E1







BRIGGS & STRATTON 4-CYCLE ENGINE

KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	399164	Cylinder Assembly	200	281024	Blade, Governor
2	293708	Bushing	201	262753	Link, Governor
3	299819 *	Seal, Oil	209	263114	Spring, Governor
4	395384	Sump, Engine	209A	A 263109	Spring, Governor
5	214277	Head, Cylinder	258	95120	Screw, Sems
7	272694 *	Gasket, Cylinder Head	304	263109 95120 499165 94786	Housing, Blower
8	495785	Breather Assembly	305	94786	Screw, Hex Head
9 10	272602 * 94719	Gasket, Breather Screw, Sems	332	94877	Nut, Flywheel
11	231774		333	496914	Armature, Magneto
12	270833 *	Gasket, Crankcase	334	94731 94732	Screw, Sems
13	93111	Screw, Cylinder Head	333	94732	Screw, Shoulder
		(Fuel Tank to Cylinder)	356	802592 497833	Plug, Spark Wire, Stop
15	94720	Plug, Oil Drain	363	497833 19069 263073 92987 89838 494408 262764	Flywheel Puller
16	499014	Crankshaft	369	263073	Spring, Friction
19		Bushing	373	92987	Nut, Hex
20	391483 *	Seal, Oil	383	89838	Wrench, Spark Plug
22	94682	Screw, Hex Head	387	494408	Primer, Carburetor
23	495046	Flywheel	390	262764	Spring, Diaphragm
24	222698	Rey, Flywlieel	393	262734	Screen, Carburetor
25	498668 498669	Piston Assembly, StandarD Piston Assembly, .010"	394	495770	Diaphragm, Carb.
	490009	Oversize	455	225502	Cup, Flywheel
	498670	Piston Assembly, .020"		281503	Retainer Spring
	400010	Oversize		281505	Ratchet
	498671	Piston Assembly, .030"	401	94943 94851	Screw, Shoulder Screw, Hex
		Oversize	523	281081	Cap, Oil Fill
26	498680	Ring Set, Standard Size		67838	Grommet, Breather
	498681	Ring Set, .010" Oversize	534	93865	Screw
	498682	Ring Set, .020" Oversize	535	272235	Filter, Air
~ ~	498683	Ring Set, .030" Oversize	536	493492	Cleaner, Air
27	26026	Lock, Piston Pin	608	499706	Starter, Rewind
28	298909	Pin, Piston, Standard Size	612	496046	Tube, Pickup
29	298908 294201	Pin, Piston, .005" Oversize Rod, Connecting, Std.	617	270344	Seal, Intake Elbow
23	296079	Rod, Connecting (.020" 0.5.)		498207	Bracket, Control
32	94699	Screw, Hex		298775 280566	Manifold, Intake
33	296676	Valve, Exhaust	635	66538	Washer, Shaft Boot, Spark Plug
34	296677	Mahaa Jakalea		280972	Retainer, Air Filter
35	260552	Spring, Valve	670	94047	Spacer
37	225013	Guard, Flywheel	718	231993	Pin, Dowel
40	93312	Retainer, Valve	729	280470	Clip, Wire
45	230173	Tappet, Valve	741	261533	Gear, Timing
46	493747	Gear, Cam	851	493880	Terminal, Cable
47	491688	Slinger, Oil Conket, inteke Manifeld		211172	Seat, Valve, Intake
52 54	270345 * 93485	Gasket, Intake Manifold		211291	Seat, Valve, Exhaust
55	499441	Screw, Self-Tapping Housing, Rewind Starter	871	231348	Bushing, Guide, Exhaust
56	499901	Pulley, Starter		69700	Valve Bushing Cuida intaka Valva
58	280406	Rope, Starter (81", Cut to	941	63709	Bushing, Guide, Intake Valve
		Suit)		281715 499260	Cover, Linkage Bracket, Brake
59	396892	Insert, Grip		281661	Ring, Trim, (Primer Bulb)
60	393152	Grip, Starter Rope		6 499332	Label Kit, Emissions
65	94904	Screw, Hex Head		0 98902-151	
73	225381	Screen, Rotating		- 398211	Replacement Shortblock
96	224412	Valve, Throttle			
105		Valve, Needle	*	Included in	Gasket Set, Part Number
116		Ring, Oil Retainer		298989	
125 131		Carburetor			
163		Shaft, Throttle Gasket, Air Cleaner			onent dimensions given in U.S.
180		Tank, Fuel	inch	es 1 inch =	25.4 mm
181		Cap, Fuel Tank			
	93440	Screw, Sems			
300		Muffler, Exhaust			

Get it fixed, at your home or ours!

For repair of major brand appliances in your own home... no matter who made it, no matter who sold it!

1-800-4-MY-HOMESM Anytime, day or night

(1-800-469-4663)

www.sears.com

To bring in products such as vacuums, lawn equipment and electronics for repair, call for the location of your nearest Sears Parts & Repair Center.

1-800-488-1222 Anytime, day or night

www.sears.com

For the replacement parts, accessories and owner's manuals that you need to do-it-yourself, call Sears PartsDirectSM!

> 1-800-366-PART 6 a.m. - 11 p.m. CST, 7 days a week

(1-800-366-7278)

www.sears.com/partsdirect

To purchase or inquire about a Sears Service Agreement:

1-800-827-6655

7 a.m. - 5 p.m. CST, Mon. - Sat.

Para pedir servicio de reparación a domicilio, y para ordenar piezas con entrega a domicilio: 1-888-SU-HOGAR [™]

(1-888-784-6427)

Au Canada pour service en français: 1-877-LE-FOYER[™] (1-877-533-6937)



® Registered Trademark / ™ Trademark of Sears, Roebuck and Co. ® Marca Registrada / ™ Marca de Fábrica de Sears, Roebuck and Co.

© Sears, Roebuck and Co.

173680 01.14.00 VB

Printed in U.S.A.