Owner's Manual

CRAFTZMAN°

6.0 HORSEPOWER 22" REAR DISCHARGE POWER PROPELLED ROTARY LAWN MOWER

Model No. **917.377140**

- 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.

SEÁRS, 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
- 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.

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

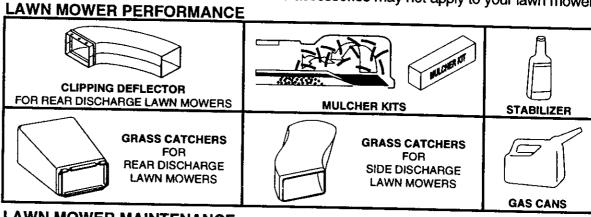
ACAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.

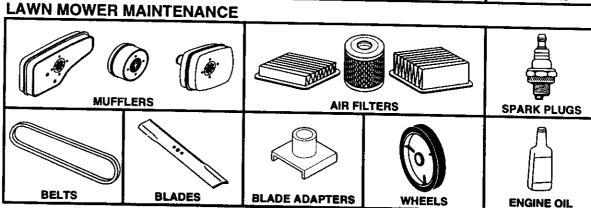
AWARNING

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.





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.

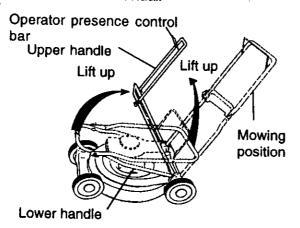
TO REMOVE LAWN MOWER FROM CARTON

- · 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.

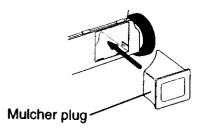
- Raise handles until lower handle section locks into place in mowing position.
- Remove protective padding, raise upper handle section into place on lower handle and tighten both handle knobs.
- Remove handle padding holding operator presence control bar to upper handle.
- Your lawn mower handle can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



TO INSTALL ATTACHMENTS

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

- Open rear door and remove mulcher plug. Store mulcher plug in a safe place.
- You can now install catcher or optional clipping deflector.
- To return to mulching operation, install mulcher plug into discharge opening of mower. Be sure all tabs are seated properly.



ACAUTION: Do not run your lawn mower without mulcher plug in place or approved clipping deflector or grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.

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 there meaning.



















CAUTION OR WARNING

ON

ENGINE OFF

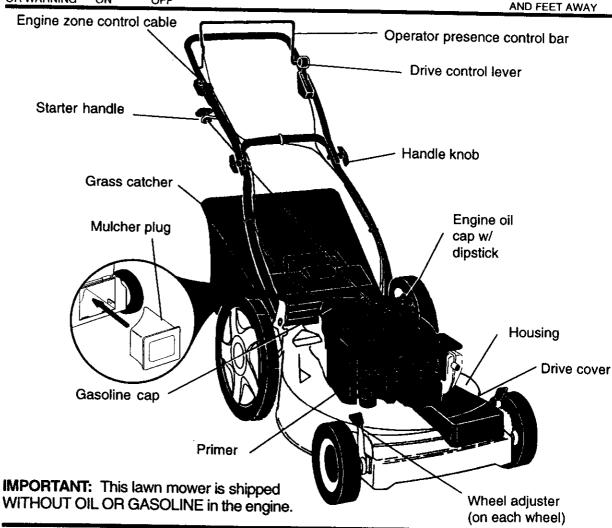
FAST

SLOW

CHOKE

FUEL

OIL DANGER, KEEP HANDS AND FEET AWAY



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.

Drive control lever - used to engage powerpropelled forward motion of lawn mower.

Mulcher plug - must be removed to convert to
bagging or discharging operation.

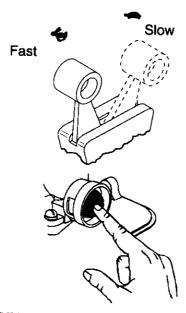


The operation of any lawn mower can result in foreign objects thrown into the eyes,

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

The engine speed is controlled by a throttle located on the side of the upper handle. Fast position is for starting, normal cutting, trimming and better grass bagging. Slow position is for light cutting, trimming and fuel economy.



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.

Plate Tab

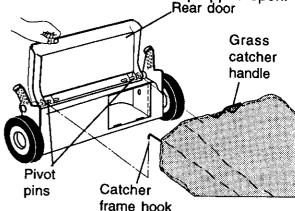


Raise Wheels for Low Cut

TO ATTACH GRASS CATCHER

- Lift the rear door of the lawn mower and place the grass catcher frame hooks onto the door pivot pins.
- The grass catcher is secured to the lawn mower housing when the rear door is lowered onto the grass catcher frame.

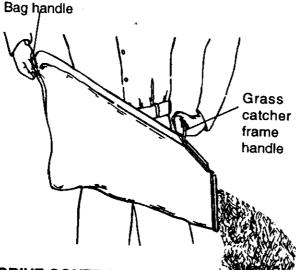
ACAUTION: Do not run your lawn mower without clipping deflector or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.



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.



DRIVE CONTROL

- Self-propelling is controlled by holding the operator presence control bar down to the handle and pushing the drive control lever forward until it clicks; then release the lever.
- Forward motion will stop when the operator presence control bar is released. To stop forward motion without stopping engine, release the operator presence control bar slightly until the drive control disengages. Hold operator presence control bar down to handle to continue mowing without selfpropelling.
- To keep drive control engaged when turning corners, push down on handle and lift front wheels off ground while turning lawn mower.

Operator presence control bar

Drive control

To engage drive control

Drive control disengaged

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.

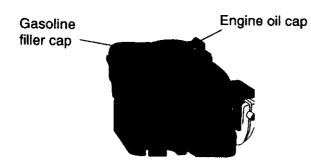
- Engine holds 20 ozs. of oil. For type and grade of oil to use, see "ENGINE" in Maintenance section of this manual.
- · Pour oil slowly. Do not over fill.
- Check oil level before each use. Add oil if needed. Fill to full line on dipstick.
- To read proper level, tighten engine oil cap each time.
- 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

- 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.
- Move throttle control lever to fast position.
- 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.

MOWING TIPS

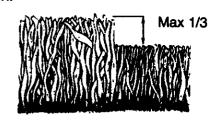
- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings. It may also be necessary to reduce ground speed and/or run the lawn mower over the area a second 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. 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 by overlapping previously cut path and mow slowly.
- 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 SCHEDULE FILL IN DATES AS YOU COMPLETE REGULAR SERVICE Check for Loose Fasteners Clean/Inspect Grass Catchory									
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	Check for Loose Fasteners	V				V			ĪT	
	Clean/Inspect Grass Catcher (If Equipped)	1								
М	Clean Lawn Mower	1 -	1			7		 	+ +	
O W	Clean Under Drive Cover (Power-Propelled Mowers)			1						
E	Check drive belt/pulleys (Power-Propelled Mowers)				V					
R	Check/Sharpen/Replace Blade				V 3				 	
	Lubrication Chart				1	1		 	† †	
	Clean Battery/Recharge (Electric Start Mowers)				/	V4			† †	
ĮΕ	Check Engine Oil Level	V								
N	Change Engine Oil				1,2				+ +	
G	Clean Air Filter				V 2				1 1	
	Inspect Muffler				1					
N	Clean or Replace Spark Plug				V				 	_
E	Replace Air Filter Paper Cartridge				√ 2				 	

- 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.

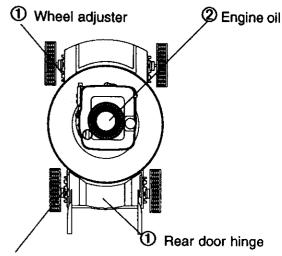
BEFORE EACH USE

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

LUBRICATION

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

LUBRICATION CHART



- 1 Handle bracket mounting pin
- ① Spray lubricant
- 2 Refer to Maintenance "ENGINE" 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

SERIALNUMBER	
DATE OF PURCHASE	
GASOLINE CAPACITY/ TYPE:	1.6 QUARTS UNLEADED REGULAR
OILTYPE (API-SF/SG/SH):	SAE 30 (ABOVE 32°F) SAE 5W-30 (BELOW 32°F)
OIL CAPACITY:	20 OZS.
SPARK PLUG (GAP: .030")	CHAMPION RJ19LM OR J19LM
VALVE CLEARANCE:	INTAKE: .004008 EXHAUST: .004008
SOLID STATE IGNITION AIR GAP:	.0125 IN.
BLADE BOLT TORQUE:	35-40 FT. LBS.
a The model and serial resembles	

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.

LAWNMOWER

Always observe safety rules when performing any maintenance.

TIRES

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

BLADE CARE

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

TO REMOVE BLADE

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

NOTE: Remove the blade adapter and check the key inside hub of blade adapter. The key must be in good condition to work properly. Replace adapter if damaged.

TO REPLACE BLADE

- Position the blade adapter on the engine crankshaft. Be sure key in adapter and crankshaft keyway are aligned.
- Position blade on the blade adapter aligning the two (2) holes in the blade with the raised lugs on the adapter.
- Be sure the trailing edge of blade (opposite sharp edge) is up toward the engine.
- Install the blade bolt with the lock washer and hardened washer into blade adapter and crankshaft.
- Use block of wood between blade and lawn mower housing and tighten the blade bolt, turning clockwise.
- The recommended tightening torque is 35-40 ft. lbs.

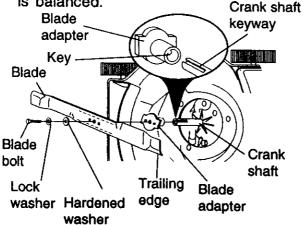
IMPORTANT: Blade bolt is grade 8 heat treated.

TO SHARPEN BLADE

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

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

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of blade over the head of the nail. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.



GRASS CATCHER

- The grass catcher may be hosed with water, but must be dry when used.
- Check your grass catcher often for damage or deterioration. Through normal use it will wear. If catcher needs replacing, replace only with a manufacturer approved replacement catcher. Give the lawn mower model number when ordering.

DRIVE WHEELS

Check front drive wheels each time before you mow to be sure they move freely. The wheels not turning freely means trash, grass cuttings, etc. are in the drive wheel area and must be cleaned to free drive wheels.

If necessary to clean the drive wheels, check both front wheels.

- Remove hubcaps, hairpin cotters and washers.
- Remove wheels from wheel adjusters.

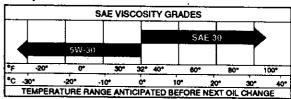
- Remove any trash or grass cuttings from inside the dust cover, pinion and/ or drive wheel gear teeth.
- Put wheels back in place.
- If after cleaning, the drive wheels do not turn freely, contact your nearest authorized service center.

GEAR CASE

- To keep your drive system working properly, the gear case and area around the drive should be kept clean and free of trash build-up. Clean under the drive cover twice a season.
- The gear case is filled with lubricant to the proper level at the factory. The only time the lubricant needs attention is if service has been performed on the gear case.
- If lubricant is required, use only Texaco Starplex Premium 1 Grease, Part No. 750369. Do not substitute.

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 overfill.
- · Replace engine oil cap.
- Reconnect spark plug wire to spark plug.



AIR FILTER

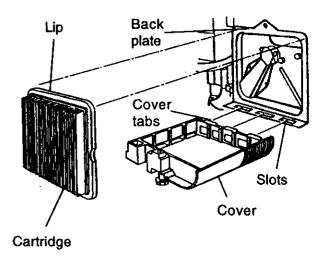
Your engine will not run properly and may be damaged by using a dirty air filter. Replace the air filter every year, more often if you mow in very dusty, dirty conditions.

TO CLEAN AIR FILTER

- Loosen screw and tilt cover to remove.
- Carefully remove cartridge.
- Clean by gently tapping on a flat surface. If very dirty, replace cartridge.

ACAUTION: Petroleum solvents, such as kerosene, are not to be used to clean cartridge. They may cause deterioration of the cartridge. Do not oil cartridge. Do not use pressurized air to clean or dry cartridge.

 Install cartridge, then replace cover making sure the tabs are aligned with the slots in the back plate. Fasten screw securely.



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.

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.

CLEAN UNDER DRIVE COVER

Clean under drive cover at least twice a season. Scrape underside of cover with putty knife or similar tool to remove any build-up of trash or grass on underside of drive cover.

SERVICE AND ADJUSTMENTS

ACAUTION: Before performing any service and 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

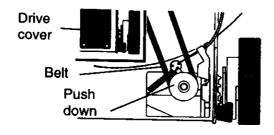
See "TO ADJUST CUTTING HEIGHT" in the Operation section of this manual.

REAR DEFLECTOR

The rear deflector, attached between the rear wheels of your 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 REMOVE/REPLACE DRIVE BELT

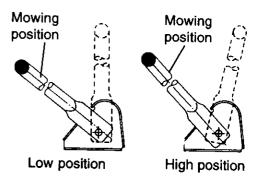
- Remove drive cover. Remove belt by pushing down on gear case pulley and roll belt off.
- Turn lawn mower on its side with carburetor and fuel cap up.
- · Remove blade.
- Remove debris shield.
- Remove belt from engine pulley on crankshaft.
- Install new belt by reversing above steps.
- Always use factory approved belt to assure fit and long life.

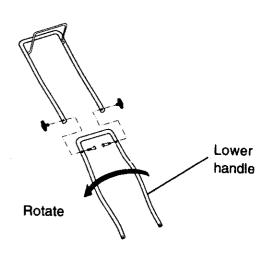


TO ADJUST HANDLE

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

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





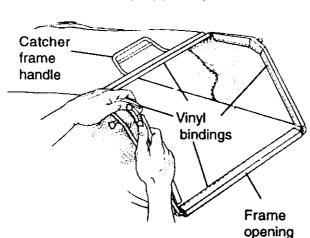
TO ASSEMBLE GRASS CATCHER

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

· Slip vinyl bindings over frame.

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

ACAUTION: Do not run your lawn mower without clipping deflector or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.



ENGINE 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.

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 and/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 authorzed service center, which has proper equipment and experience to make any necessary adjustments.

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.

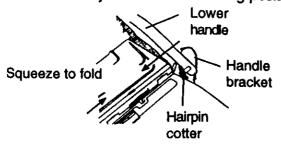
HANDLE

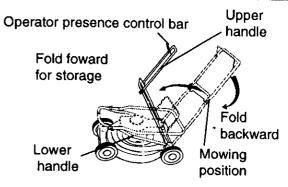
You can fold your lawn mower handle for storage.

- 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 any damage the control cables.

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





ENGINE FUELSYSTEM

IMPORTANT: It is important to prevent gum deposits from forming in essential fuel system parts such as carburetor, f fuel filter, fuel hose or tank during storage. Also, experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

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

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

ENGINE OIL

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

CYLINDER

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

OTHER

 Do not store gasoline from one season to another. Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.

 If possible, store your unit indoors and cover it to give protection from dust and dirt.

 Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your unit to rust.

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

TROUBLESHOOTING CHART

PROBLEM		T 00000
FRUDLEM	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. Control bar in released position. Control bar defective. 	replace blade adapter. 8. Depress control bar to handle.
Loss of power	 Control bar defective. Rear of lawn mower housing or cutting blade dragging in heavy grass. Cutting too much grass. Dirty air filter. Buildup of grass, leaves, and trash under mower. Too much oil in engine. Walking speed too fast. 	 Replace control bar. Set to "Higher Cut" position. Set to "Higher Cut" position. Clean/replace air filter. Clean underside of mower housing. Check oil level. Cut at slower walking speed.
Poor cut – uneven	 Wom, 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.

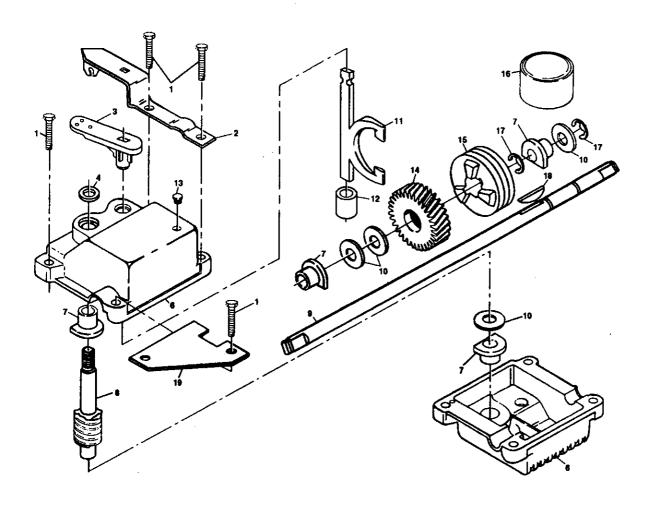
TROUBLESHOOTING CHART

PROBLEM	CAUSE CORRECTION						
THODELIN	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. 					
Loss of drive	 Drive wheels not turning with drive control engaged. Belt not driving 	 Adjust or replace drive control cable. Put belt on pulleys or replace belts if broken. 					
Grass catcher not filling (if so equipped)	 Cutting height too low. Lift on blade worn off. Catcher not venting air. 	 Raise cutting height. Replace blade. Clean grass catcher. 					
Hard to push	 Grass is too high or wheel height is too low. Rear of lawn mower housing or blade dragging in grass. Grass catcher too full. Handle height position not right for you. 	 Raise cutting height. Raise rear of lawn mower housing one (1) setting higher. Empty grass catcher. Adjust handle height to suit. 					

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REPAIR PARTS

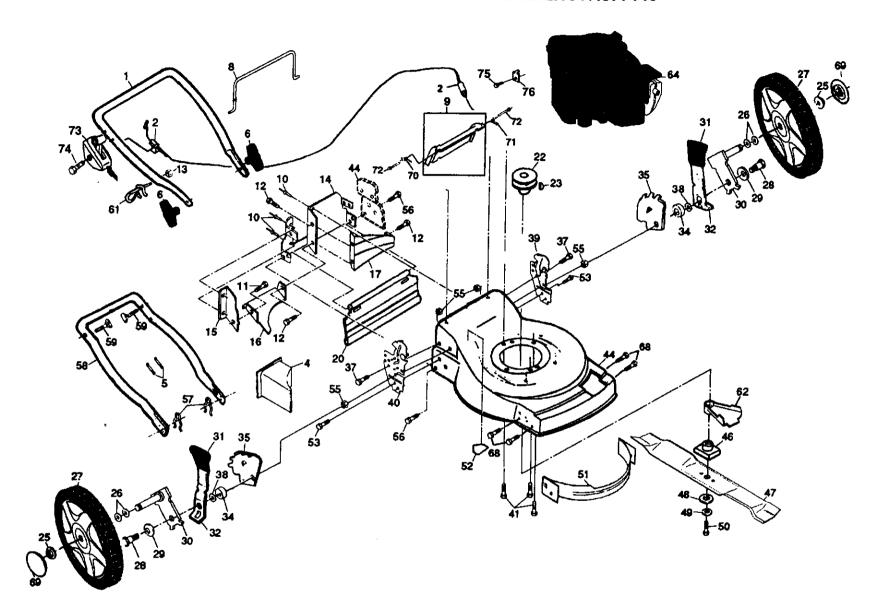
ROTARY LAWN MOWER -- MODEL NO. 917.377140 **GEAR CASE ASSEMBLY PART NUMBER 702511**



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	17490416	Tapping Screw 1/4-20 x 1-1/4	9	137074	Drive Shaft
2	137055X004	_ ** *	10	57079	Hardened Washer
3	137053	Engagement Bracket	11	131484	Clutch Yoke
4	57072	Shifter	12	700343	Bushing
-		Seal	13	86447	Plug
6	48373	Gear Case Halves Kit	14	137050	Helical Gear
		(Includes Key Nos. 4,	15	750436X	Clutch Jaw
7	77004	and 7)	16	750369	Grease
<u>′</u>	77881	Bearing	17	12000003	E-Ring
8	137051	Worm Shaft	18	850848	Hi-Pro Key
			19	81585X004	Spring Bracket

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

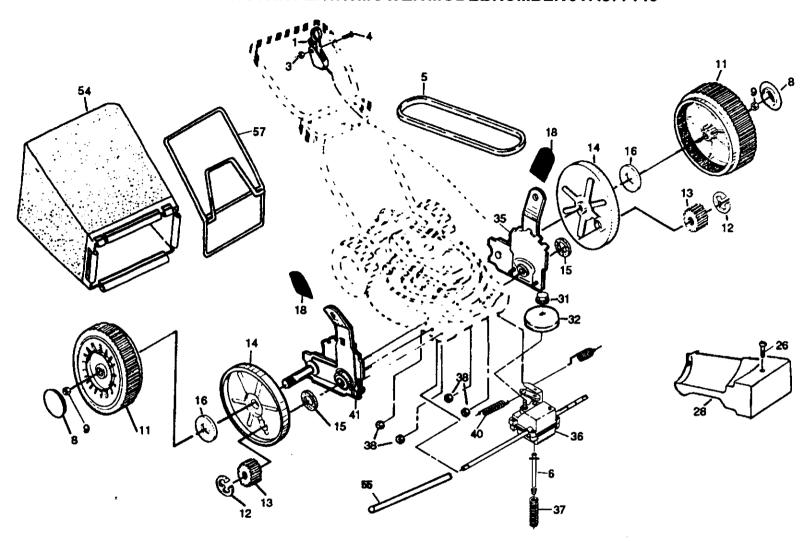
ROTARY LAWN MOWER MODEL NUMBER 917.377140



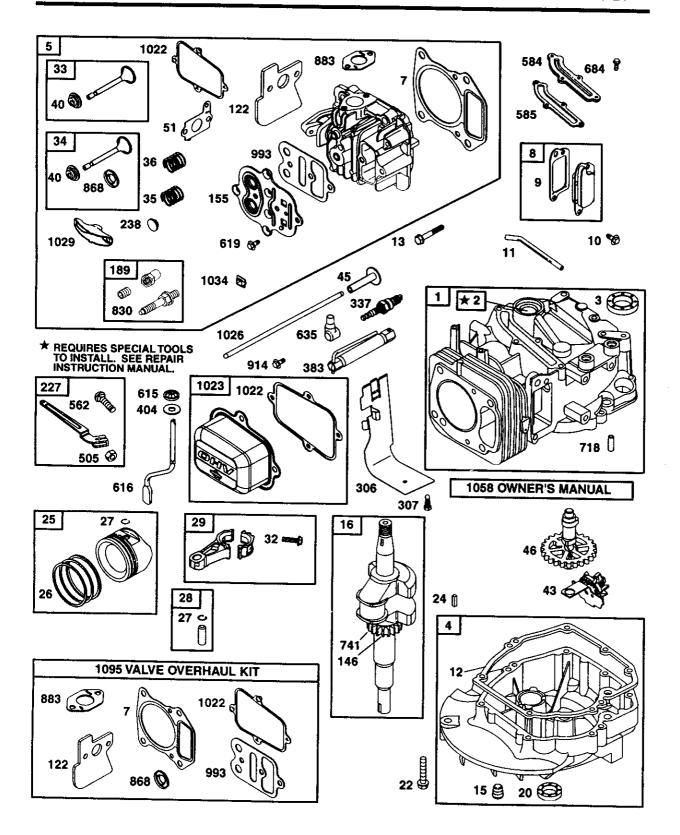
ROTARY LAWN MOWER MODEL NUMBER 917.377140

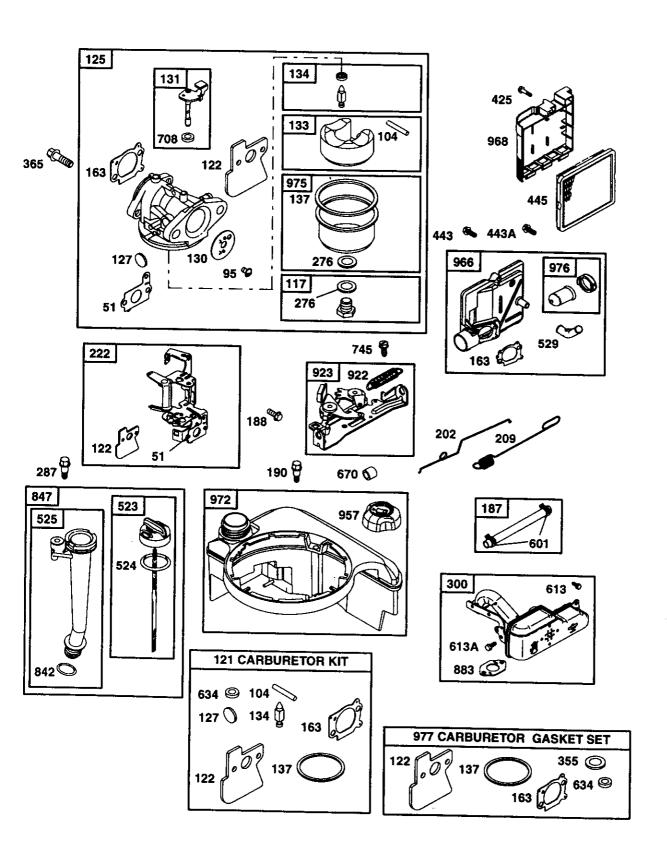
KE NC		DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	165452X479	UpperHandle	46	851514	Blade Adapter
2	130861	Engine Zone Control Cable	47	141114	Blade 22"
4 5	150425	Mulcher Plug	48	851074	Hardened Washer
5 6	66426 136376	Wire Tie	49	850263	Helical Washer 3/8-24 x 1-3/8 Gr. 8
8	145793	Handle Knob	50 51	851084 170031	Hex Head Machine Screw 3/8-24 x 1-3/8 Gr. 8
9	170947	Control Bar	51 52	85463	Front Baffle Kit
10	128415	Rear Door Kit	52 53	74760612	Danger Decal
11	150050	Pop Rivet	55 55	74760612 751592	Hex Bolt 3/8-16x3/4
12	STD512505	Self Tapping Screw #10-24 x 5/8	56	88652	Locknut 3/8-16
13	63601	Hex Tapping Screw w/Sems 1/4-20 x 1/2 Nut 1/4 - 20	57	51793	Hinge Screw 1/4-20 x 1-1/4
14	156374X479	Back Plate	58	157081X479	Hairpin Cotter
15	700365X479	Side Baffle	59	131959	LowerHandle Handle Bolt
16	133190X479	Discharge Baffle	61	132001	Rope Guide
17	140661X479	Rear Baffle	62	134612	Debris Shield
20	140540	Rear Skirt	64	104012	Engine - (See Breakdown)
22	84596	Engine Pulley	V-1		Briggs & Stratton Model 120602-0138-E1
23	87677	Hi-Pro Key #505	68	17600406	Screw Hx Serrated 1/4 x 20.TT
25	83923	Hex Flange Nut	69	151440	Hubcaps
26	57143	Wave Washer	70	170938	Spring LH
27	151138	Wheel	71	170939	Spring RH
28	142748	Shoulder Bolt 3/8-16 x 1	72	165912	Bolt
29	61651	Spring Washer	73	700644	Throttle Control
30	750913X004	Axle Arm Assembly	74	144929	Screw
31	161961	Selector Knob	75	83816	Screw
32	170136X004	Selector Spring	76	111190X	Clamp
34	146630	Spacer		161058	Warning Decal (Not Shown)
35	700325X007	Wheel Adjusting Bracket		174668	Owner's Manual (English/Spanish)
37	150078	Thread Cutting Screw w/Sems 5/16-18 x 3/4			o more o mandan (2 nghor oparnon)
38	88348	Flat washer 3/8	Availat	ole accessories no	t included with lawn mower:
39	173571X479	Handle Bracket Assembly (Left)	• •	D/98 33313	Clipping Deflector
40	173572X479	Handle Bracket Assembly (Right)		71 33623	Gas Can (2.5 gal.)
41	150406	Hex Head Thread Rolling Screw 3/8-16 x 1-1/8		71 33500	Fuel Stabilizer
44	172835	Lawn Mower Housing (Incl. Key #14, 15, 51)		71 33033	SAE 30W Oil (20 oz.)
				71 33417	Dust Shield
				71 33316	MowerCover

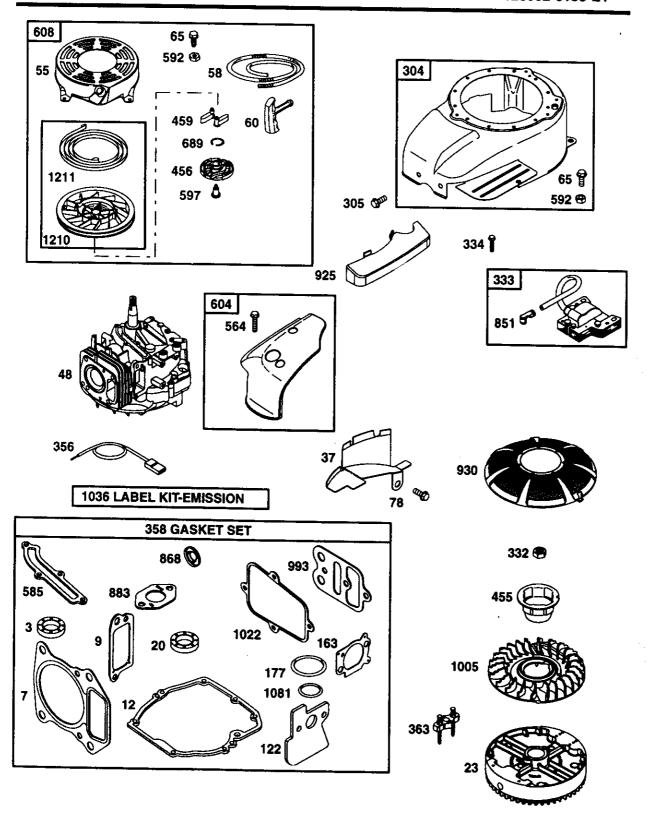
ROTARY LAWN MOWER MODEL NUMBER 917.377140



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 3 4 5 6 8 9 11 12 13 14 15 16 18	145755 751152 158755 146527 150495 150182 145212 150340 12000058 137054 88080 88118 67725 701037	Control Cable Assembly Locknut #10-24 Pan Head Machine Screw 1/4 x 2.12 V-Belt Spring Retainer Hubcap Flanged Nut Wheel & Tire Assembly E-Ring Pinion Dust Cover Felt Washer Washer 1/2 x 1-1/2 x .134 Selector Knob	26 28 31 32 35 36 37 38 40 41 54 55	143603 154990 132010 137052 151521 702511 137090 63601 75192 151520 169932 86012 169931	Pan Head Tapping Screw #10-24 x 2-3/4 Drive Cover Hex Flange Nut Drive Pulley Wheel Adjuster Assembly (Left) Gear Case Assembly Spring Nut Spring Wheel Adjuster Assembly (Right) Grassbag Driveshaft Cover Frame







KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.		DESCRIPTION
1	692670	Culindos Annombly	101	600700	_	
2	399269	Cylinder Assembly Bushing/Seal Kit	121 122	692703 692799		Carburetor Overhaul Kit
f	033203	(Magneto Side)	125	694202	X WO-	Carburetor Spacer
3	299819	★ Oil Seal (Magneto Side)	127	694468	_	Carburetor
4	499619	Engine Sump	130	691203	•	Welch Plug
5	692800	Cylinder Head	131	499682		Throttle Valve
7	273240	★+ Cylinder Head Gasket	133	398187		Throttle Shaft
8	495786	Breather Assembly	134	398188	_	Carburetor Float Needle/Seat Kit
9	272481	★ Breather Gasket	137	693981		Float Bowl Gasket
10	691125	Screw (Breather	146	94388	•	Timing Key
		Assembly)	155	691231		Cylinder Head Plate
11	499675	Breather Tube	163	692667	*	- Air Cleaner Gasket
12	272198	★ Crankcase Gasket	187	298049		Fuel Line
13	691137	Screw (Cylinder Head)	188	691147		Screw (Control Bracket)
15	691680	Oil Drain Plug	189	694543		Rocker Arm Ball
16	691457	Crankshaft	190	94511		Screw (Fuel Tank)
20	399781	★ Oil Seal (PTO Side)	202	691303		Mechanical Governor
22	691092	Screw (Crankcase Cover/				Link
004		Sump)	209	691290		Governor Spring
22A	94612	Screw	222	692672		Control Bracket
		(Crankcase Cover/Sump)	227	691467		Governor Control Lever
		(Used in Hole	238	691300		Valve Cap
22	000450	Nearest Breather)	276	271716	••	Sealing Washer
23	692452	Flywheel	287	94511		Screw (Dipstick Tube)
24 25	222698	Flywheel Key	300	693982		Exhaust Muffler
20	690021	Piston Assembly	304	499677		BlowerHousing
	694167	(Standard)	305	691108		Screw (Blower Housing)
	034107	Piston Assembly (.010	306 307	691232		Cylinder Shield
	694168	O.S.) Piston Assembly (.020	332	690345 94877		Screw (Cylinder Shield)
	007100	O.S.)	333	802574		Nut (Flywheel)
	694169	Piston Assembly (.030	334	94731		Magneto Armature
	55 55	O.S.)	307	54 /31		Screw (Magneto Armature)
26	499631	Ring Set (Standard)	337	499608		Spark Plug
	692785	Ring Set (.010 O.S.)	356	692390		Stop Wire
	692786	Ring Set (.020 O.S.)	358	694090	*	Engine Gasket Set
	692787	Ring Set (.030 O.S.)	363	19069	^	Flywheel Puller
27	263190	Piston Pin Lock	365	691136		Screw (Carburetor)
28	499423	Piston Pin				Colon (Calbalotol)
29	499424	Connecting Rod		RPM Settings:		Low Speed: 1900-2100
32	94699	Screw (Connecting Rod)		•		High Speed: 3000-3200
33	499642	Exhaust Valve				
34	499641	Intake Valve	*	Included in En	gine G	asket Set.
35	691304	Valve Spring (Intake)	_	Ref Number 35	8.	
36	691304	Valve Spring (Exhaust)	•	included in Ca	rbureto	or Overhaul Kit,
37 40	694086	Flywheel Guard		Ref Number 12	21.	
43	93312	Valve Retainer	•	Included in Ca	rbureto	or Gasket Set,
45	493737 262679	Governor/Oil Slinger		Ref Number 97		
46	692453	Valve Tappet Camshaft	+	Included in Val	lue Ove	erhaul Kit,
48	692745	Shortblock		Ref Number 10	195.	
51	692668	★●◆+ Intake Gasket	NOTE	· All component	dim	olone characterists : :
55	691421	Rewind Starter Housing	1 inch	= 25.4 mm	OHHBU	sions given in U.S. inches
58	280399	Starter Rope (Cut To	. 111041	- 20.7 Hull		
		Length)				
60	281434	Starter Rope Grip				
65	94904	Screw (Rewind Starter)				
78	691108	Screw (Flywheel Guard)				
95	94098	Screw (Throttle Valve)				
104	691242	Float Hinge Pin				
117	498978	Main Jet (Standard)				
		•				

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.		DESCRIPTION
383	19374	Spark Plug Wrench	851	493880		Spark Plug Terminal
404	690272	Washer (Governor Crank		498592	★ +	Valve Seal
425	94872	Screw (Air Cleaner	883	691893		Exhaust Gasket
		Cover)	914	691108		Screw (Rocker Cover)
443	94118	Screw (Air Cleaner Prime		262640		Brake Spring
		Base)	923	493442		Brake
443A	94873	Screw (Air Cleaner Prime	r 925	690595		Linkage Cover
		Base)	930	692675		Rewind Guard
445	491588	Air Cleaner Cartridge	957	498697		Fuel Tank Cap
		Filter	966	692673		Air Cleaner Primer Base
455	691219	Flywheel Cup	968	281340		Air Cleaner Cover
456	281503	Pawl Friction Plate	972	499618		Fuel Tank
459	281505	Ratchet Pawl	975	493640		Float Bowl
505	231082	Nut (Governor Control	976	694395		Carburetor Primer
		Lever)	977	692704		Carburetor Gasket Set
523	499621	Dipstick	993	694088	*+	· Cylinder Head Plate
524	280966	★ Dipstick Tube Seal				Gasket
525	495265	Dipstick Tube	1005	691346		Flywheel Fan
529	281299	Grommet	1022	691890	☆ +	Rocker Cover Gasket
562	94852	Bolt (Governor Control	1023	499624		Rocker Arm Cover
E 6 4	600000	Lever)	1026	498597		Push Rod
564 584	693808 692342	Screw (Control Cover)	1029	691230		RockerArm
585	272238	Breather Passage Cover		691343		Push Rod Guide
360	212230	★ Breather Passage Gasket	1036	694507		Emissions Label
592	94908	Nut (Rewind Starter)	1058	274264		Owner's Manual
597	94943	Screw (Pawl Friction	1095	694091		(Emission Engines)
557	5-15-15	Plate)	1210	498144	-	- Valve Gasket Set
601	93053	Hose Clamp	1211	498144		Pulley/Spring
604	692669	Control Cover	1211	121602-0515-E1		Pulley/Spring
608	497680	Rewind Starter	_	121002-0313-61		Replacement Engine
613	691108	Screw (Muffler)				neplacement engine
613A	691140	Screw (Muffler) (Muffler		RPM Settings:		Low Speed: 1900-2100
		Guard)		ra in coungs.		High Speed: 3000-3200
615	690340	Governor Shaft Retainer	•			1 light opera. 3000-3200
616	691306	Governor Crank	*	Included in Engi	ne G	Sasket Set
619	691108	Screw (Cylinder Head	-	Ref Number 358.		
		Plate)	•	Included in Carb		or Overhaul Kit
635	66538	Spark Plug Boot	•	Ref Number 121.		o. Groman rad
670	280512	Fuel Tank Spacer	•	Included in Carb		or Gasket Set.
684	690345	Screw (Breather Passag	e	Ref Number 977.		
		Cover)	+	Included in Value		verhaul Kit.
689	263073	Friction Spring		Ref Number 109!		
708	691321	●◆ Dust Seal				
718	230192	Locating Pin	NOTE	: All component di	imei	nsions given in U.S. inches
741	262598	Timing Gear		= 25.4 mm		3
745	94512	Screw (Brake)				
830	694544	Stud (Rocker Arm)				
842	280393	★ Dipstick/Tube Seal				
847	498715	Dipstick/Tube Assembly	•			

SERVICE NOTES

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