Owner's Manual

CRAFTSMAN® 6.75 HORSEPOWER 22" REAR DISCHARGE POWER PROPELLED ROTARY LAWN MOWER

Model No. 917.377981

- 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	11
Safety Rules	2	Service and Adjustments	14
Assembly		Storage	16
Operation	6	Troubleshooting	17
Maintenance Schedule	10	Repair Parts	37
Maintenance	10	Parts Ordering	Back Cover

WARRANTY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN POWER MOWER

For two years from date of purchase, when this Craftsman Lawn Mower is maintained, lubricated, and tuned up according to the operating and maintenance instructions in the owner's manual, Sears will repair free of charge any defect in material or workmanship. If this Craftsman Lawn Mower is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as rotary mower blades, blade adapters, belts, air cleaners and spark plug.
- Repairs necessary because of operator abuse or negligence, including bent crankshafts and the failure to maintain the equipment according to the instructions contained in the owner's manual.

Warranty service is available by returning the Craftsman power mower to the nearest Sears Service Center/Department in the United States. This warranty applies only while this product is in use in the United States.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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

SAFETY RULES

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
- 2 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.

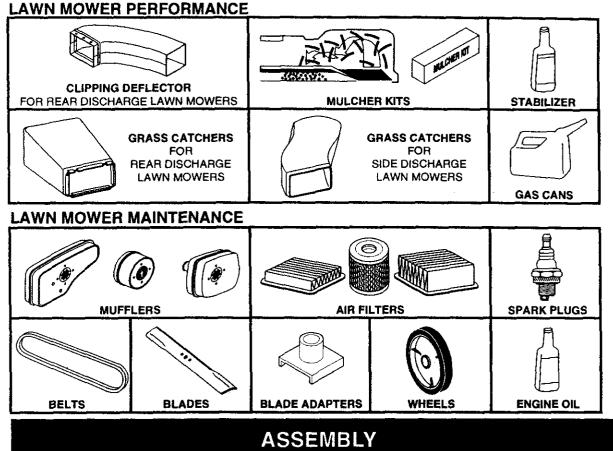
CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.

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.



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.

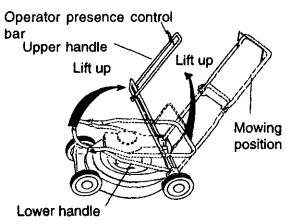
TO REMOVE LAWN MOWER FROM CARTON

- Remove loose parts included with mower.
- Cut down two end comers 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.

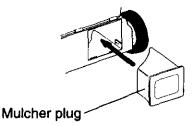
- Raise handles until lower handle section locks into place in mowing position.
- Remove protective padding, raise upper handle section into place on lower handle and tighten both handle knobs.
- Remove handle padding holding operator presence control bar to upper handle.
- Your lawn mower handle can 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.



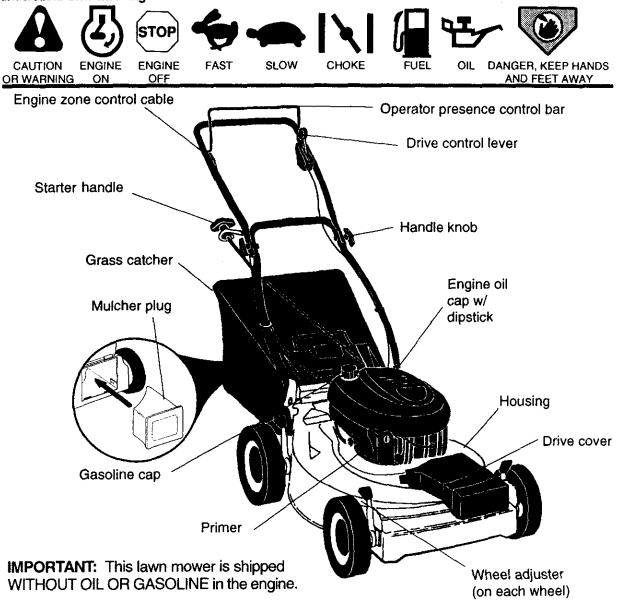
CAUTION: Do not run your lawn mower without mulcher plug in place or approved clipping deflector or grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.

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

ENGINE ZONE CONTROL

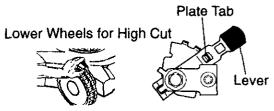
CAUTION: Federal regulations require an engine control to be installed on this lawn mower in order to minimize the risk of blade contact injury. Do not under any circumstances attempt to defeat the function of the operator control. The blade turns when the engine is running.

 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.

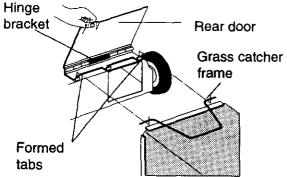
NOTE: Adjuster is properly positioned when plate tab inserts into hole in lever. Also, 9-position adjusters (if so equipped) allow lever to be positioned between the plate tabs.



Raise Wheels for Low Cut

TO ATTACH GRASS CATCHER

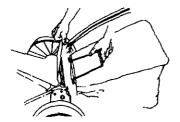
- Close the lift top lid. Lift top lid must be closed while operating lawn mower.
- Lift the rear door on the mower housing and place the grass catcher frame onto the formed tabs on the rear door hinge bracket.
- The grass catcher is secured to the lawn mower housing when the rear door is lowered onto the grass catcher frame.
 CAUTION: 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

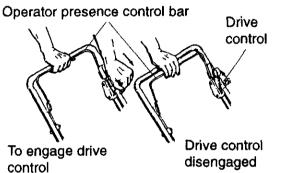
- To remove grass catcher, release operator presence control bar to stop engine.
- Lift up rear door and remove the grass catcher by the handle.

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.



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.

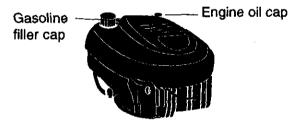
- Engine holds 27 ozs. of oil. For type and 'grade of oil to use, see "ENGINE" in Maintenance section of this manual.
- · Pour oil slowly. Do not over fill.
- Check oil level before each use. Add oil if needed. Fill to full line on dipstick.
- To read proper level, tighten engine oil cap each time.
- 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. (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 three

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

NOTE: In cooler weather it may be necessary to repeat priming steps. In warmer weather over priming may cause flooding and engine will not start. If you do flood engine, wait a few minutes before attempting to start and do not repeat priming steps.

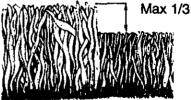
MOWING TIPS

- 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 SCHEDU FILL IN DATES AS YOU COMPLETE REGULAR SERVICE	LE	affor	AFTER	HUSE USE EACH 10 P VERY 10 P VERY 10 P	OURS N25HOU NEVERVER	AS SON	RAGE	DATE	s
MO≹ER	Check for Loose Fasteners Clean/Inspect Grass Catcher (If Equipped) Clean Lawn Mower Clean Under Drive Cover (Power-Propelled Mowers) Check drive belt/pulleys (Power-Propelled Mowers) Check/Sharpen/Replace Blade Lubrication Chart Clean Battery/Recharge (Electric Start Mowers)		× ×	~	✓ ✓ 3 ✓					
ENGINE	Check Engine Oil Level Change Engine Oil Clean Air Filter Inspect Muffler Clean or Replace Spark Plug Replace Air Filter Paper Cartridge				V 1.2 V 2 V V V 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.

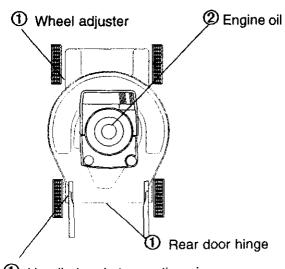
BEFORE EACH USE

- 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 sel 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:	1.5 QUARTS UNLEADED REGULAR
OIL TYPE (API-SF/SG/SH):	SAE 30 (ABOVE 32°F) SAE 5W-30 (BELOW 32°F)
OIL CAPACITY:	27 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.

 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.

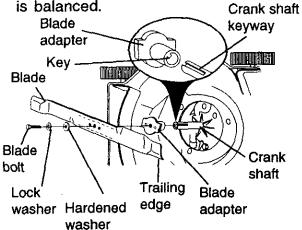
IMPORTANT: Blade bolt is grade 8 heat treated.

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. Crank shaft



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. 12

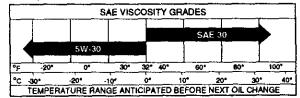
- Remove any trash or grass cuttings from inside the dust cover, pinion and/ or drive wheel gear teeth.
- Put wheels back in place.
- If after cleaning, the drive wheels do not turn freely, contact your nearest authorized service center.

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.

LUBRICATION Use only high quality

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. Do not wash air filter.

TO CHANGE AIR FILTER

- Loosen cover knob.
- Swing cover down and remove from hinge.
- Pull paper filter out of air cleaner body.
- Clean air cleaner cover and body.
- Install a new paper filter.
- Reinstall cover to air cleaner body. Be sure hinge is assembled properly.
- Swing cover up and tighten cover knob. (Do not overtighten).

Hinge Air filter cover Paper filter Cover knob

MUFFLER

Inspect and replace corroded muffler as it could create a fire hazard and/or damage. **SPARK PLUG**

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

CLEANING

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

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

- Turn lawn mower on its side. Make sure air filter and carburetor are up. Clean the underside of your lawn mower by scraping to remove build-up of grass and trash.
- Clean engine often to keep trash from accumulating. A clogged engine runs hotter and shortens engine life.
- Keep finished surfaces and wheels free of all gasoline, oil,etc.
- We do not recommend using a garden hose to clean lawn mower unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in 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.

CAUTION: 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

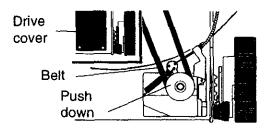
See "TO ADJUST CUTTING HEIGHT" in the Operation section of this manual.

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

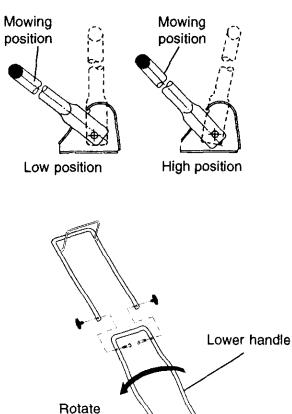
- Remove drive cover. Remove belt by pushing down on gear case pulley and roll belt off.
- Turn lawn mower on its side with carburetor and fuel cap up.
- Remove blade.
- · Remove debris shield.
- Remove belt from engine pulley on crankshaft.
- Install new belt by reversing above steps.
- Always use factory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



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.

TO ASSEMBLE GRASS CATCHER

 Insert leg of tubular frame through front opening of grass catcher and thread frame into sewn hem of bag.

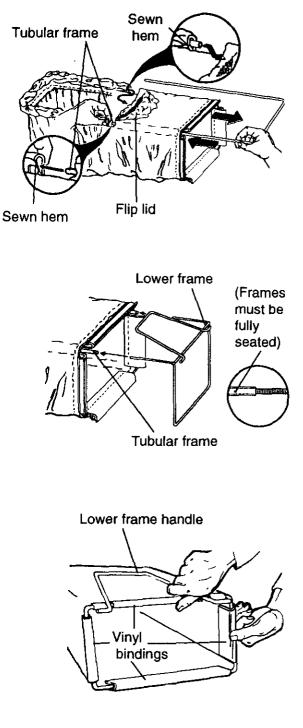
NOTE: Keep bag hem gathered on the straight leg of the tubular frame.

- When frame comes out the other end of sewn hem, immediately work the end of frame down inside the bag as shown in inset.
- Slide sewn hem evenly around the tubular frame until both ends of frame are exposed out of the front opening.
- Assemble lower frame to tubular frame as shown. Be sure handle is outside of bag and frames are fully seated as shown in inset.

• 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.

 Close the flip lid. Flip lid must be closed while operating lawn mower.

CAUTION: 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.



STORAGE

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

LAWNMOWER

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

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

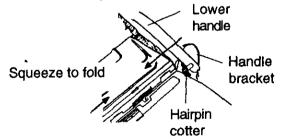
HANDLE

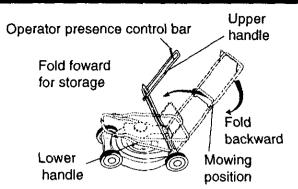
You can fold your lawn mower handle for storage.

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

IMPORTANT: When folding the handle for storage or 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.

CAUTION: Never store the lawn mower with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

PROBLEM	С	AUSE	С	ORRECTION
Does not start	1. 2. 3.	Dirty air filter. Out of fuel. Stale fuel.	1. 2. 3.	
	4.	Water in fuel.	4.	
	5.	Spark plug wire is disconnected.	5.	Connect wire to plug.
	6.	Bad spark plug.	6.	Replace spark plug.
	7.	Loose blade or broken blade	7.	
		adapter.		replace blade adapter.
	8.	Control bar in released position.	8.	Depress control bar to handle.
	9 .	Control bar defective.	9.	Replace control bar.
Loss of power	1.	Rear of lawn mower housing or cutting blade dragging in heavy grass.	1.	Set to "Higher Cut" position.
	2.	Cutting too much grass.	2.	Set to "Higher Cut" position.
	3.	Dirty air filter.	3.	Clean/replace air filter.
	4.	Buildup of grass, leaves, and trash under mower.	4.	Clean underside of mower housing.
	5.	Too much oil in engine.	5.	Check oil level.
	6.	Walking speed too fast.	6.	Cut at slower walking speed.
Poor cut – uneven	1.	Worn, bent or loose blade.	1.	Replace blade. Tighten blade bolt.
	2.	Wheel heights uneven.	2.	height
	3.	Buildup of grass, leaves	3.	
		and trash under mower.		mower housing.

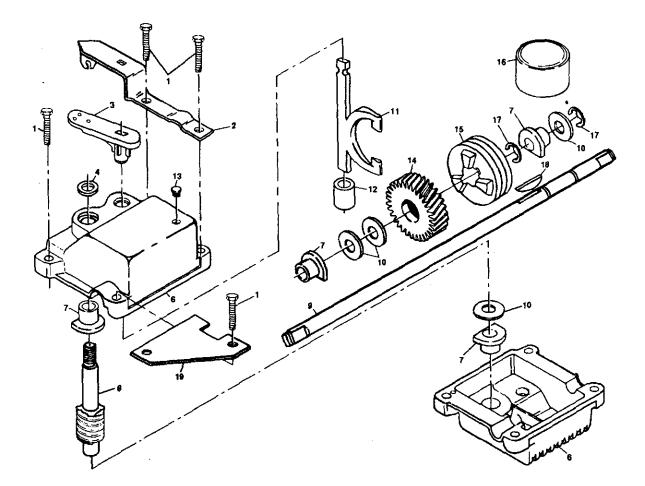
TROUBLESHOOTING CHART

TROUBLESHOOTING CHART

TROUBLESHOOT		000005071011
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.
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.

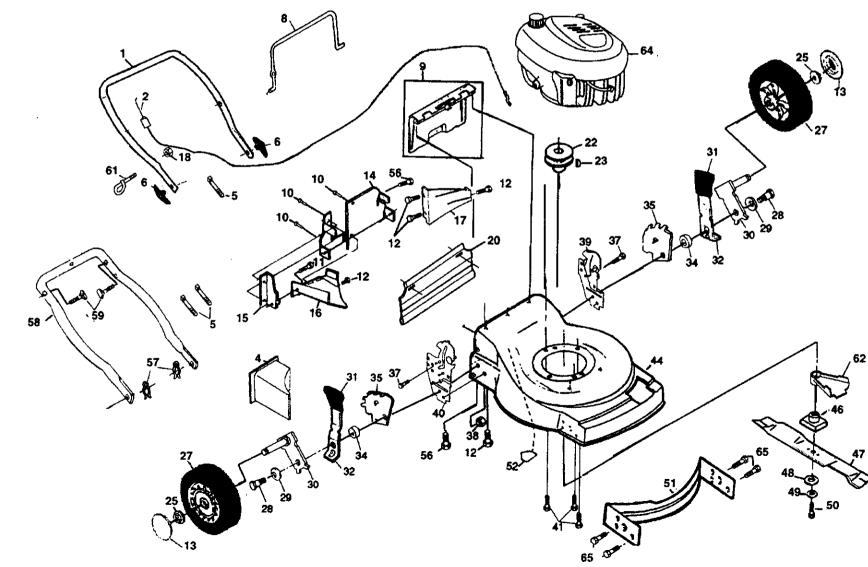
REPAIR PARTS

ROTARY LAWN MOWER -- MODEL NO. 917.377981 GEAR CASE ASSEMBLY PART NUMBER 702511



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	17490416	Tapping Screw 1/4-20 x	9	137074	Drive Shaft
		1-1/4	10	57079	Hardened Washer
2	137055X004	EngagementBracket	11	131484	Clutch Yoke
3	137053	Shifter	12	700343	Bushing
4	57072	Seal	13	86447	Plug
6	48373	Gear Case Halves Kit	14	137050	Helical Gear
-		(Includes Key Nos. 4,	15	750436X	Clutch Jaw
		and 7)	16	750369	Grease
7	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

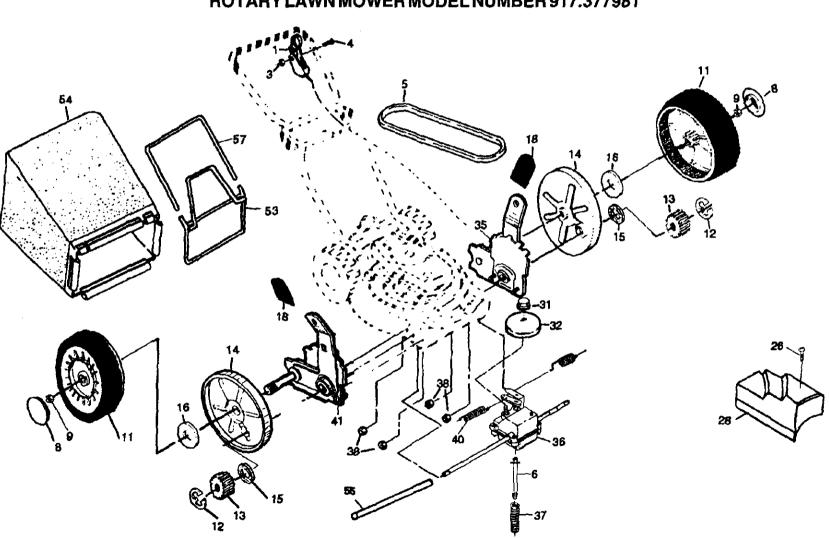


ROTARY LAWN MOWER MODEL NUMBER 917.377981

ROTARY LAWN MOWER MODEL NUMBER 917.377981

,

KE NC		DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	165452X479	UpperHandle	40	151511X479	Handle Bracket Assembly (Right)
2	158921	Engine Zone Control Cable	41	150406	Hex Head Thread Rolling Screw 3/8-16 x 1-1/8
4	150425	Mulcher Plug	44	170025	Lawn Mower Housing (Incl. Key #14, 15, 51 & 52)
5	66426	Wire Tie	46	851514	Blade Adapter
6	136376	Handle Knob	47	141114	Blade 22*
8	145793	Control Bar	48	851074	Hardened Washer
9	151023	Rear Door Kit	49	850263	Helical Washer 3/8-24 x 1-3/8 Gr. 8
10	128415	Pop Rivet	50	851084	Hex Head Machine Screw 3/8-24 x 1-3/8 Gr. 8
11	150050	Self Tapping Screw #10-16 x 1/2	51	170031	Kit Baffle
12	STD512505	Hex Tapping Screw w/Sems 1/4-20 x 1/2	52	85463	Danger Decal
13	150181	Hubcap	56	88652	Hinge Screw 1/4-20 x 1-1/4
14	156374X479	Back Plate	57	51793	Hairpin Cotter
15	700365X479	Side Baffle	58	157081X479	LowerHandle
16	133190X479	Discharge Baffle	59	131959	Handle Bolt
17	140661X479	Rear Baffle	61	132001	RopeGuide
18	63601	Keps Locknut 1/4-20	62	134612	Debris Shield
20	140540	Rear Skirt	64		Engine-Craftsman - Model No. 143.996704
22	85543	Engine Pulley	65	17600406	Screw
23	87677	Hi-Pro Key #505		161058	Warning Decal (Not Shown)
25	83923	Hex Flange Nut	÷ -	171059	Owner's Manual (English/Spanish)
27	150341	Wheel			
28	142748	Shoulder Bolt 3/8-16 x 1			t included with lawn mower:
29	62335	Spring Washer		7133303	Clipping Deflector
30	145935X004	Axle Arm Assembly		<u>71</u> 33623	Gas Can (2.5 gal.)
31	701037	Selector Knob		<u>71</u> 33500	FuelStabilizer
32	700331X004	Selector Spring	• -	<u>71</u> 33027	SAE 30W Oil (27 oz.)
34	146630	Spacer			
35	700325X007	Wheel Adjusting Bracket (Right)			
37	150078	Thread Cutting Screw w/Sems 5/16-18 x 3/4			
38	751592	Nut			
39	151512X479	Handle Bracket Assembly (Left)			



, ROTARY LAWN MOWER MODEL NUMBER 917.377981

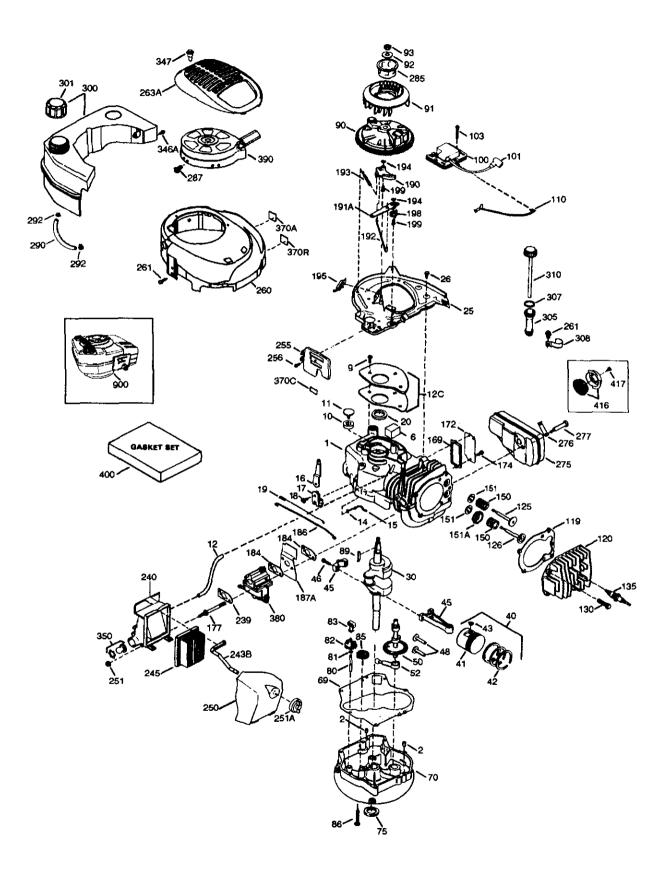
₿

REPAIR PARTS

ROTARY LAWN MOWER MODEL NUMBER 917.377981

. .

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	145755	Control Cable Assembly	31	132010	Hex Flange Nut
3	751152	Locknut #10-24	32	137052	Drive Pulley
4	158755	Hex Washer Head Screw 1/4-20 x 2.12	35	151521	Wheel Adjuster Assembly (Left)
5	146527	V-Belt	36	702511	Gear Case Assembly
6	150495	Spring Retainer	37	137090	Spring
8	150182	Hubcap	38	STD541425	Locknut 1/4-20
9	145212	Locknut	40	75192	Spring
11	150340	Wheel & Tire Assembly	.41	151520	Wheel Adjuster Assembly (Right)
12	12000058	E-Ring	53	144747	Frame Throat
13	137054	Pinion	54	166069	Grassbag Assembly
14	88080	Dust Cover	55	86012	Driveshaft Cover
15	88118	Felt Washer	57	144748	Frame Tube
16	67725	Washer 1/2 x 1-1/2 x .134	_		
18	701037	Selector Knob			
26	143603	Pan Head Tapping Screw #10-24 x 2-3/4			
28	154990	Drive Cover			



CRAFTSMAN 4-CYCLE ENGINE

40016A

Intake Valve Seal

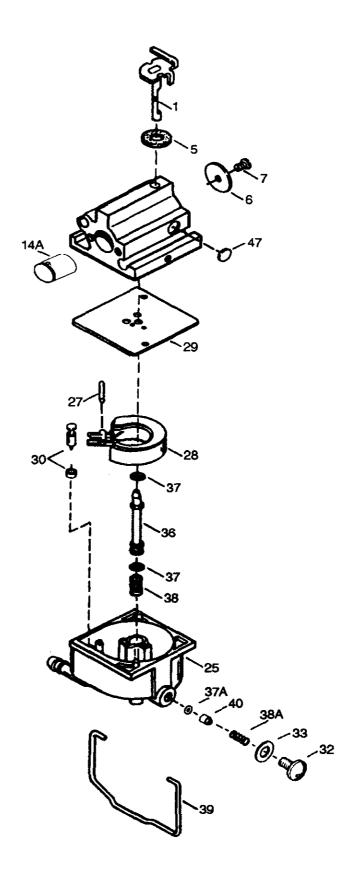
KEY NO.	PART NO.		DESCRIPTION	KEY NO.	PART NO.	DE
1	36177		Cylinder	169	27234A	* Val
•	07050		(Incl. 2,10,12,20 & 125)	172	32755	Val
2	27652		DowelPin	174	30200	Scr
6	36059		Breather Element	177	650925A	Car
9 10	590568 36002		Screw, 10-24 x 3/4"	184	36183	Car
11	36002 36003A		Breather Valve Body	186	36009	Gov
12	32447		Check Valve Breather Tube	187A	37148	Air
12Č	36005A	*	Breather Cover & Gasket	190	36013	Bra
14	28277		FlatWasher	191A	36012	Bra
15	36006		Governor Rod (Machined)	192	36016	Bra
16	36008		Governor Lever	193	36015	Bra
17	31335		GovernorLeverClamp	194 195	36014 610973	Ret
18	651018		Screw, Torx T-15,	193	36017	Ter Bra
			8-32 x 19/64"	199	36018	Bra
19	36103		Governor Spring	239	36048	* Car
20	36010		Oil Seal			Ga
25	37149		Blower Housing Baffle	240	36190	Air
26	650802		Ass'y.(Incl.195)			(Inc
30	36185		Screw, 1/4-20 x 5/8" Crankshaft	243B	651041	Àir
40	40004		Piston, Pin, Ring Set (Std.)	245	36046	Air
-0	40005		Piston, Pin, Ring Set (310.)	250	36191	Air
41	36070		Piston & Pin Ass'y.(Std.)	251	650928	Loc
			(Incl. 43)	251A	650933	Wir
	36071		Piston & Pin Ass'y.	255 256	36193 650983	Cor
			(.010 OS)(Incl.43)	260	36188	Scr Blo
42	40006		Ring Set (Std.)	261	650737	Scr
	40007		Ring Set (.010 OS)	263A	36192	Sta
43	20381		Piston Pin Retaining Ring	275	36107A	Mut
45	36023A		Connecting Rod Ass'y.	276	36043	Loc
46	206104		(Incl. 46)	277	650927	Scr
40 48	32610A 36030		Connecting Rod Bolt	285	34449A	Sta
50	36030 36031A		Valve Lifter Camshaft (MCR)	287	650926	Scr
52	29914		Oil Pump Ass'y.	290	29774	Fue
69	36032A	*	Mounting Flange Gasket	292	26460	Fue
70	37271		Mounting Flange	300	36189	Fue
			(Incl. 72 thru 85)	301 305	36246 36063	Fue
75	36010		Óil Seal	307	35499	Oil "O"
80	30574A		Governor Shaft	308	36040	Fill
81	30590A		Washer	310	36064	Dip
82	30591		Governor Gear Ass'y.(Incl.81)	346A	28763	Scr
83 85	36057		Governor Spool	347	650898A	Scr
86	36034 650924		Idler Gear	350	36045A	Prin
89	611154		Screw, 1/4-20 x 1-9/16" Flywheel Key	370A	36261	Lut
90	611155		Flywheel	370C	37318	Prir
91	611156		Flywheel Fan	370R	37317	Wa
92	650815		Belleville Washer	380	640020A	Car
9 3	650816		FlywheelNut	390 400	590739 36062D	Rev Ga:
100	34443B		Solid State Ignition	400	300020	(Inc
101	610118		Spark Plug Cover	416	36085	Spa
103	651007		Screw, Torx T-15,	410	00000	(Inc
			10-24 x 15/16"	417	650821	Scr
110	36054		Ground Wire	900		Re
119	36061	•	Cylinder Head Gasket			750
120 125	36187 36471		Cylinder Head	900	<u> </u>	Re
125	30471		Exhaust Valve (Std.) (Incl. 151)			750
	36472		Exhaust Valve (1/32" OS)			RP
126	29314C		Intake Valve (Std.) (Incl. 151)			
	29315C		Intake Valve (1/32" OS)	NOT	E: This en	aine cou
130	6021A		Screw, 5/16-18 x 1-1/2"		02 starter.	g
135	35395		Resistor Spark Plug (RJ19LM)			
150	31672		Valve Spring	NOT	E: All com	iponent c
151	31673		Lower Valve Spring Cap	U.S. i	nches 1 i	nch = 25
151A	40016A		Intake Valve Seal			

ESCRIPTION

alve Spring Box Gasket live Spring Box Cover rew, 10-24 x 9/16" arburetor Mounting Stud rburetor Gasket overnor Link Baffle ake Lever Ass'y. ake Control Lever ake Control Lever Link ake Spring etaining Ring erminal Ass'y. ake Control Lever Spring ake Lever Bushing irburetor To Air Cleaner asket Cleaner Body icl. 239 & 350) Cleaner Stud Cleaner Filter Cleaner Cover ock Nut 1/4-20 ing Nut, 1/4-20 ontrol Plate crew, 8-32 x 17/32* ower Housing crew, 1/4-20 x 1/2" arter Grill uffler cking Plate crew, 5/16-18 x 2-11/32" arter Cup rew, 8-32 x 21/64" el Line iel Line Clamp iel Tank (Incl. 301) ielCap I Fill Tube "Ring Il Tube Clip pstick . rew, 10-32 x 35/64" rew, 10-32 x 27/64" imer brication Decal imer Decal arning Decal arburetor (Incl. 184 & 239) ewind Starter asket Set ncl. Items Marked *) oark Arrestor Kit ncl. 417)(Optional) crew, 10-32 x 1/2" (Optional) eplacement Engine 0819B, order from 71-999 eplacement Short Block 60797B, PM High 2900 to 3200

uld have been built with

dimensions given in U.S. inches 1 inch = 25.4 mm



KEV

47

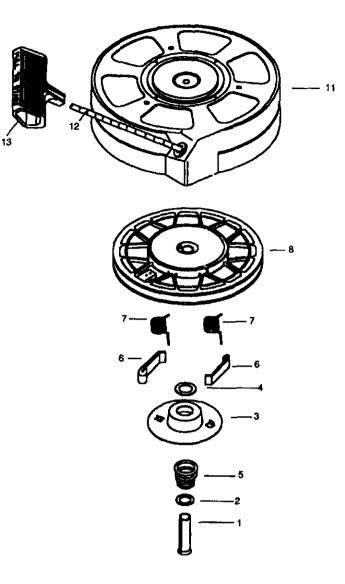
	PARI
NO.	NO.
——	640020A
1	632539
5	632593
6	632541
7	650506
14A	632773
25	632675A
27	632544
28	632543
29	632548
30	632709
32	632672
33	632673
36	640022
37	632547
37A	632547
38	632545
38A	632545
39	632549
40	640021

632554

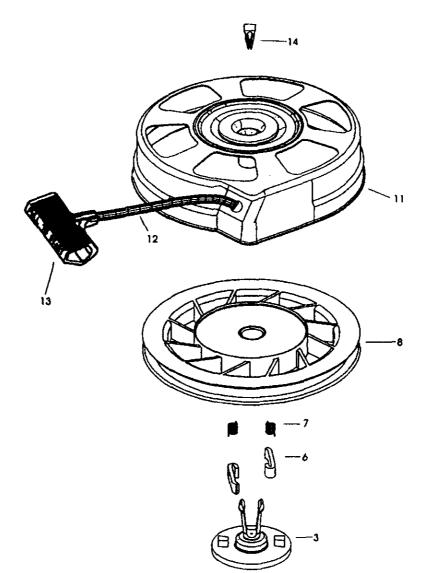
DADT

DESCRIPTION

Carburetor (Incl. 187B & 239 of Engine Parts List) Throttle Shaft & Lever Assembly Dust Seal Throttle Shutter **Throttle Shutter Screw** Venturi Float Bowl Float Shaft Float Float Bowl to Body Gasket Inlet Needle & Seat Bowl Drain Screw Bowl Drain Washer Main Nozzle Tube "O" Ring, Main Nozzle Tube "O" Ring, Main Nozzle Tube Spring, Main Nozzle Tube Spring Float Bowl Retainer Main Fuel Jet Welch Plug, Idle Mixing Well



KEY NO.	PART NO.	DESCRIPTION
	590702	Recoil Starter
1	590599A	Spring Pin (Incl. 4)
2	590600	Washer
2 3	590696	Retainer
4	590601	Washer
5	590697	Brake Spring
6	590698	Starter Dog
7	590699	Dog Spring
8	590700	Pulley & Rewind Spring Ass'y.
11	590703	Starter Housing Ass'y. (40 degree
		grommet)
12	590535	Starter Rope (98" X 9/64" dia.)
13	590701	Starter Handle



KEY NO.	PART NO.	DESCRIPTION
	590739	Rewind Starter
3	590740	Retainer
6	590616	Starter Dog
7	590617	Dog Spring
8	590618A	Pulley & Rewind Spring Ass'y
11	590638	Starter Housing Ass'y (40 degree grommet)
12	590535	Starter Rope (Length 98" x 9/64" dia.)
13	590701	Starter Handle
14	590760	Spring Clip

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

Get it fixed, at your home or ours!

1-800-4-MY-HOME SM 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 PartsDirect**SM!

1-800-366-PART 6 a.m. – 11 p.m. CST, (1-800-366-7278) 7 days a week

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.



© Sears, Roebuck and Co.

⑧ Registered Trademark / ™ Trademark of Sears, Roebuck and Co.
⑧ Marca Registrada / ™ Marca de Fábrica de Sears, Roebuck and Co.