Owner's Manual

CRAFTSMAN® 6.5 HORSEPOWER 22" SIDE DISCHARGE POWER PROPELLED ROTARY LAWN MOWER

Model No. 917.377424

- 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	10
Safety Rules		2	Service and Adjustments	13
Assembly		4	Storage	14
Operation		5	Troubleshooting	16
Maintenance	Schedule	9	Repair Parts	35
Maintenance		9	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 when mowing.
- · Check fuel tank before starting engine. Do not fill gas tank indoors, when the engine is running or when the engine is hot. Allow the engine to cool for several minutes before filling the gas tank. Clean off any spilled gasoline before starting the engine.
- Always make wheel height adjustments before starting your mower. Never attempt to do this while the engine is running.
- Mow only in daylight or good artificial light.

OPERATION:

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

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

MAINTENANCE AND STORAGE:

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

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

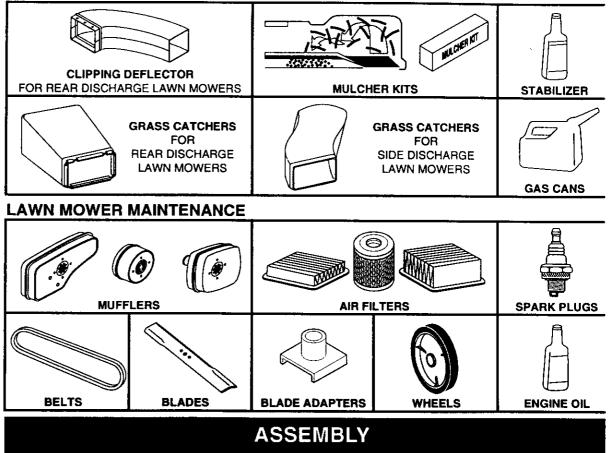
ACAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.

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.

LAWN MOWER PERFORMANCE



Read these instructions and this manual in its entirety before you attempt to assemble or operate your new lawn mower. **IMPORTANT:** This lawn mower is shipped WITHOUT OIL OR GASOLINE in the

engine.

Your new lawn mower has been assembled at the factory with the exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your lawn mower, all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to ensure proper tightness. All parts such as nuts, washers, bolts, etc., necessary to complete the assembly have been placed in the parts bag.

TO REMOVE LAWN MOWER FROM CARTON

• Remove loose parts included with mower.

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

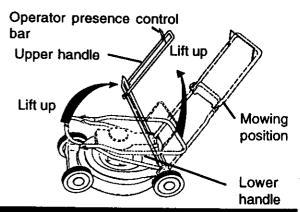
HOW TO SET UP YOUR LAWN MOWER

TO UNFOLD HANDLE

IMPORTANT: Unfold handle carefully so as not to pinch or damage control cables

- Raise 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.

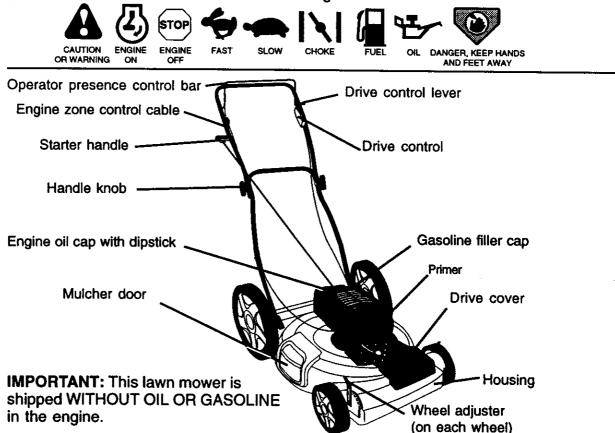


OPERATION

KNOW YOUR LAWN MOWER

READ THIS OWNER'S MANUALAND 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 – allows conversion to discharge or bagging 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 CONTROL

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

ENGINE ZONE CONTROL

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

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

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 Drive control bar

To engage drive control

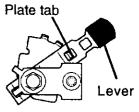
Drive control disengaged

TO ADJUST CUTTING HEIGHT

- Raise wheels for low cut and lower wheels for high cut.
- Adjust cutting height to suit your requirements. Medium position is best for most lawns.
- To change cutting height, squeeze adjuster lever toward wheel. Move wheel up or down to suit your requirements. Be sure all wheels are in the same setting.
 NOTE: Adjuster is properly positioned when plate tab inserts into hole in lever.
 Also, 9-position adjusters (if so equipped) allow lever to be positioned between the plate tabs.

Lower wheels for high cut

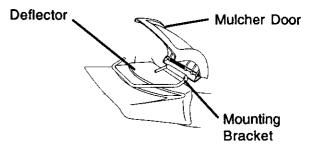




Raise wheels for low cut

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

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



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

BEFORE STARTING ENGINE OIL

Your lawn mower is shipped without oil in the engine.

- Be sure mower is level and area around oil fill is clean.
- Remove engine oil cap 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. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.

AWARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

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

TO START ENGINE

• To start a cold engine, push primer five (5) times before trying to start. Use a firm push. This step is not usually necessary when starting an engine which has already run for a few minutes.

- Hold operator presence control bar down to the handle and pull starter handle quickly. Do not allow starter rope to snap back.
- To stop engine, release operator presence control bar.

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

Engine oil cap





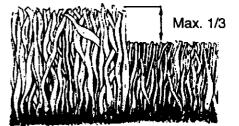
MOWING TIPS

- 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.
- For side discharge lawn mowers, cutting in a counter-clockwise direction, starting at the outside of the area to be cut, spreads grass clippings more evenly and puts less load on the engine. To keep clippings off of walkways, flower beds, etc., make the first cuts in a clockwise direction.
- Pores in cloth grass catchers can become filled with dirt and dust with use and catchers will collect less grass. To prevent this, regularly hose catcher off with water and let dry before using.
- Keep top of engine around starter clear and clean of grass clippings and chaff. This will help engine air flow and extend engine life.
- 7 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 condition 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	ILE			HUSEUSE	URS	NRSSO	GRAGE	/		-
	FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		BEFOR	AFTER AFTER	HUSEUSE EACH USE VERY 10 P VERY 10 P	N 25EP	UPSASON SEASON FOREST	ERVIC	E D/	ATES	6
	Check for Loose Fasteners	~									
	Clean/Inspect Grass Catcher (If Equipped)	~	~			~				-	
M	Clean Lawn Mower		1			V					
0 W	Clean Under Drive Cover (Power-Propelled Mowers)			~							
E	Check drive belt/pulleys (Power-Propelled Mowers)				~						
R	Check/Sharpen/Replace Blade				V 3						
	Lubrication Chart				~	~					
	Clean Battery/Recharge (Electric Start Mowers)				V	V.					
Ε	Check Engine Oil Level	1									
N	Change Engine Oil				1.2			1			
G	Clean Air Filter				2						
1	Inspect Muffler				V						
Ν	Clean or Replace Spark Plug				V	1					
Ε	Replace Air Filter Paper Cartridge				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, clean or replace air filter element and check blade for wear. A new spark plug and clean/new air filter element assures proper air-fuel mixture and helps your engine run better and last longer.
- Follow the maintenance schedule in this manual.

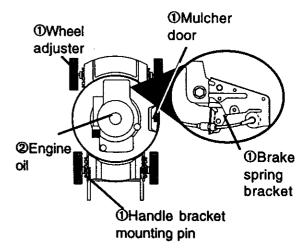
BEFORE EACH USE

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

LUBRICATION

Keep unit well lubricated (See "LUBRICATION CHART").

LUBRICATION CHART



①Spray lubricante
 ②Refer to MAINTINANCE "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

MODEL NUMBER	917.377423
SERIALNUMBER	
DATE OF PURCHASE	
GASOLINE CAPACITY/ TYPE:	1.25 QUARTS UNLEADED REGULAR
OIL TYPE (API-SF/SG/SH):	SAE 30 (ABOVE 32°F) SAE 5W-30 (BELOW 32°F)
OIL CAPACITY:	20 OZS.
SPARK PLUG (GAP: .030")	CHAMPION 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 for 	ound on a decal attached to the rear of the

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.

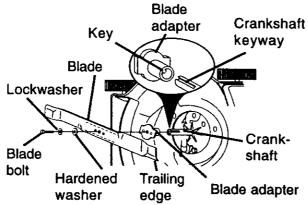
IMPORTANT: Blade bolt is grade 8 heat treated.

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.



GRASS CATCHER

(If purchased as an accessory)

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

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 Grease, part no. 750369. Do not substitute.

DRIVE WHEELS

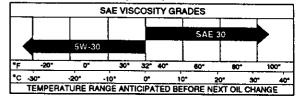
Check front drive wheels each time before you mow to be sure they move freely. The wheels not turning freely means trash, grass cuttings, etc. are in the drive wheel area and must be cleaned to free drive wheels.

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.

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 orat least once a year if the lawn mower is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Tighten oil plug securely each time you check the oil level.

TO CHANGE ENGINE OIL

NOTE: Before tipping lawn mower to drain oil, drain fuel tank by running engine until fuel tank is empty.

- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with spark plug.
- Remove engine oil cap; lay aside on a clean surface.
- Tip lawn mower on its side as shown and drain oil into a suitable container. Rock lawn mower back and forth to remove any oil trapped inside of engine.
- Wipe off any spilled oil on lawn mower and on side of engine.
- Fill engine with oil. Fill only to the "FULL" line on the dipstick. DO NOT OVER FILL.
- Replace engine oil cap.
- Reconnect spark plug wire to spark plug.

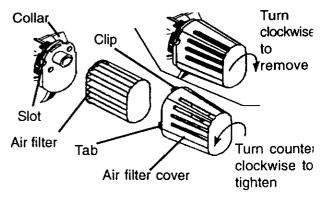


AIR FILTER

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

TO CHANGE AIR FILTER

- Remove the air filter by turning clockwise to the stop and pull away from collar.
- Remove filter from inside of cover.
- Clean the inside of the cover and the collar to remove any dirt accumulation.
- Insert new filter into cover.
- Put air filter cover and filter into collar aligning the tab with the slot.
- Push in on cover and turn counterclockwise to tighten.



MUFFLER

after each use.

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, kiip mower housing free of built-grass and trash. Clean the underside of your mower

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.

LAWN MOWER

TO ADJUST CUTTING HEIGHT

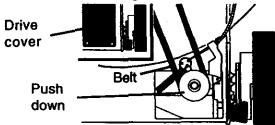
See "TO ADJUST CUTTING HEIGHT" in the Operation section of this manual. **DISCHARGE GUARD**

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

The rear deflector, attached between the rear wheels of your mower, is provided to minimize the possibility that objects will be thrown out of the rear of the mower into the operator mowing position. If the deflector becomes damaged, it should be replaced.

TO REMOVE/REPLACE DRIVE BELT

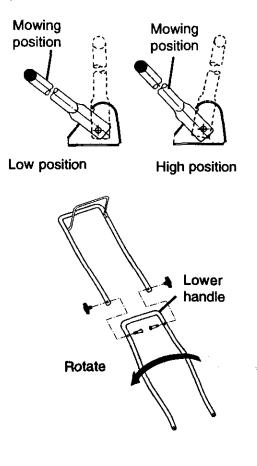
- Remove drive cover. Remove belt by pushing down on gear case pulley and rolling belt off it.
- Turn lawn mower on its side with carburetor and fuel cap up.
- · Remove blade.
- · Remove debris shield.
- Remove belt from engine pulley on crankshaft.
- Install new belt by reversing above steps.
- Always 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 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 engine is running too fast or too slow, take your 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 the proper engine speed. Overspeeding the engine above the factory high speed scan be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest authorized service center, which has proper equipment and experience to make any necessary adjustments.

STORAGE

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

LAWN MOWER

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

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

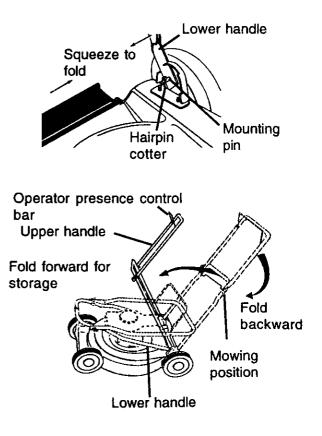
HANDLE

You can fold your lawn mower handle for storage.

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

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

• 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, 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

TROUBLESHOOT		0000000000
PROBLEM	CAUSE	CORRECTION
Does not start	 Dirty air filter. Out of fuel. Stale fuel. 	 Clean/replace air filter. Fill fuel tank. Drain tank and refill with fresh clean fuel.
	4. Water in fuel.	 Drain fuel tank and carburetor and refill tank with fresh gasoline.
	Spark plug wire is disconnected.	5. Connect wire to plug.
	6. Bad spark plug.	6. Replace spark plug.
	 Loose blade or broken blad adapter. 	le 7. Tighten blade bolt or replace blade adapter.
	8. Control bar in released position.	 Bepress control bar to handle.
	9. Control bar defective.	9. Replace control bar.
Loss of power	 Rear of lawn mower housir or cutting blade dragging in heavy grass. 	g 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. Set all wheels at same height
	3. Buildup of grass, leaves and trash under mower.	3. Clean underside of mower housing.
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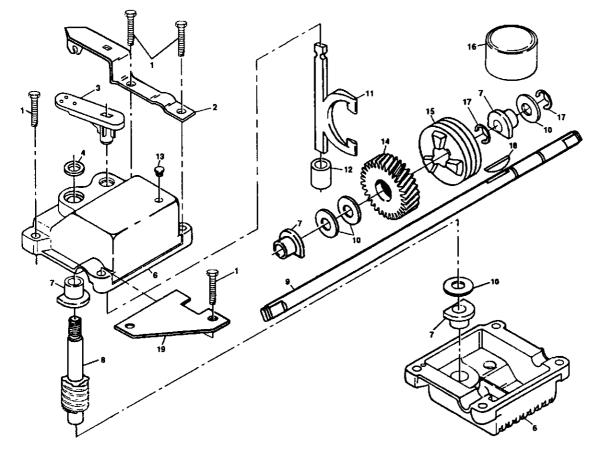
TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Excessive vibration	 Worn, bent or loose blade. Bent engine crankshaft. 	1. Replace blade. Tighten blade bolt. 2. 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.

SERVICE NOTES

REPAIR PARTS

ROTARY LAWN MOWER - - MODEL NO. 917.377424 GEAR CASE ASSEMBLY PART NUMBER 702511

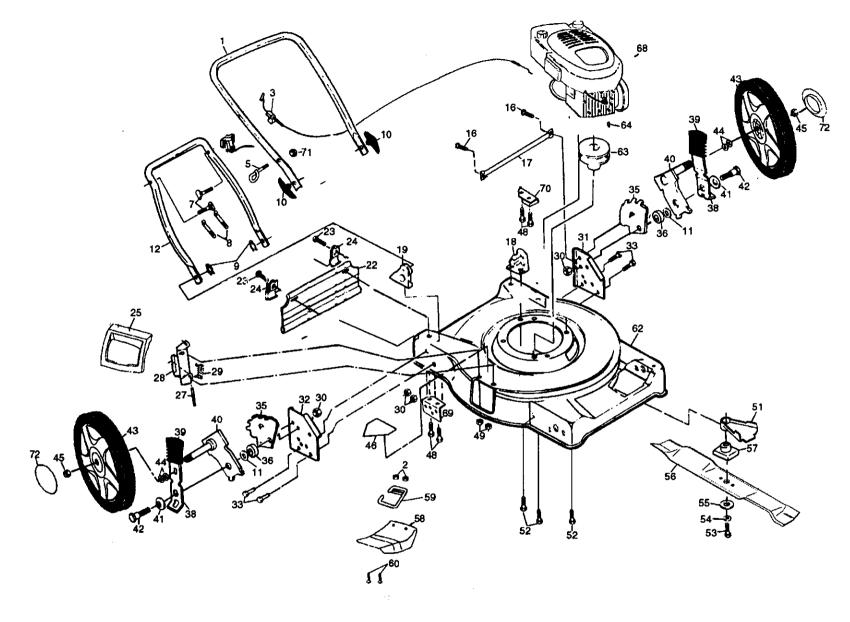


KEY PART NO. NO. DESCRIPTION

1	17490416	Tapping Screw 1/4-20 x 1-1/4
2	137055X004	Engagement Bracket
З	137053	Shifter
4	57072	Seal
6	48373	Gear Case Halves Kit (Includes Key Nos. 4, 6, and 7)
7	77881	Bearing
8	137051	WormShaft
9	137074	Drive Shaft
10	57079	Hardened Washer
11	131484	Clutch Yoke
12	700343	Bushing
13	86447	Plug
14	137050	Helical Gear
15	750436X	Clutch Jaw
16	750369	Grease
17	12000003	E-Ring
18	850848	Hi-Pro Key
19	81585X004	Spring Bracket

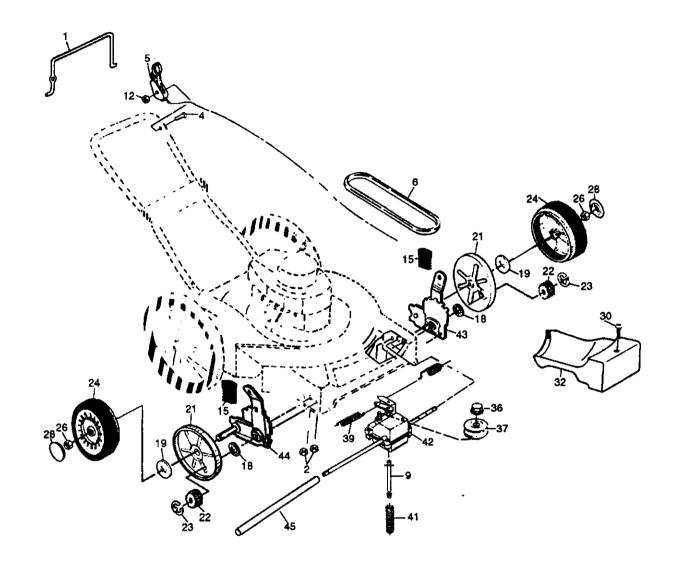
NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

ROTARY LAWN MOWER - MODEL NO. 917.377424



ROTARY LAWN MOWER - MODEL NO. 917.377424

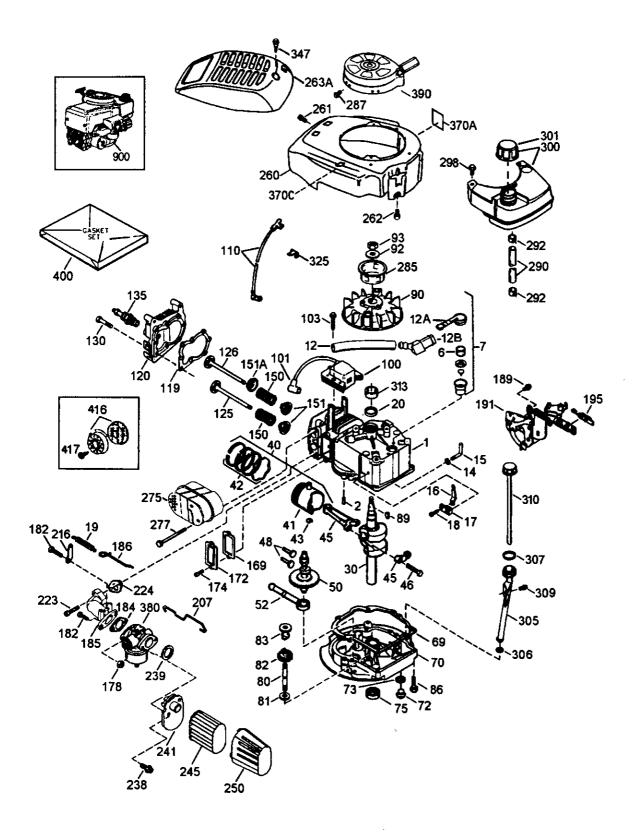
KEY	PART		KEY		
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
			48	149741	Thread Cutting Screw 5/16-18 x 3/4
1	165452X479	UpperHandle	49	STD541425	Hex Locknut
2	STD541425	Locknut	49 51	134612	Debris Shield
3	168552	Zone Control Cable	52	150406	Hex Head Thread Rolling Screw 3/8-16
5	153638	Rope Guide	32	100400	x 1-1/8
7	131959	Handle Bolt	53	851084	Hex Head Screw 3/8-24 x 1-3/8 (Grd. 8)
8	66426	Wire Tie	55 54	850263	Helical Lockwasher
9	51793	Hairpin Cotter		851074	Hardened Washer
10	136376	Handle Knob	55 56	152202	Blade 22"
11	88348	Flat Washer 3/8			Blade Adapter
12	157081X479	LowerHandle	57	851514	Deflector
16	STD512505	Hex Tapping Screw 1/4-20 x 1/2	58	752118	
17	165175X479	Support Rod	59	751399	Bracket, Deflector
18	170346X479	Handle Bracket Assembly (Left)	60	74180410	screw 1/4-20
19	170345X479	Handle Bracket Assembly (Right)	62	171037	Lawn Mower Housing (Incl. Ref. #46)
22	140540	Rear Deflector	63	85543	Engine Pulley
23	750097	Hex Washer Head Screw #10-24 x 1/2	64	87677	Hi-Pro Key #HP 505
24	87584X004	Deflector Bracket	68		Engine - (Šee Breakdown) Craftsman
25	151889	Discharge Guard		4500501/470	Model 143.996510
27	147286	Hinge Rod	69	153350X479	Support Brkt Handle RH
28	154132	Housing Bracket	70	153282X479	Support Brkt Handle LH
29	152124	Torsion Spring	71	63601	Locknut Keps
30	751592	Locknut	72	151440	Hubcap
31	700168X479	Support Bracket (Left)		161058	Warning Decal (Not Shown)
32	700166X479	Support Bracket (Right)		171 794	Owner's Manual (English/Spanish)
33	STD523707	Hex Head Bolt 3/8-16x3/4			
35	750085X007	Wheel Adjusting Bracket	Availat	ple accessories not inc	cluded with lawn mower:
36	146630	Spacer			A A · · ·
38	700331X004	Selector Spring		7133072	Grass Catcher
39	701037	Selector Knob		7133623	Gas Can (2.5 gal.)
40	750913X004	Axle Arm Assembly		71 33500	Fuel Stabilizer
41	61651	Belleville Washer		71 33300	SAE 30W Oil (20 oz.)
	142748	Shoulder Bolt		71 33316	MowerCover
42	142748	Wheel & Tire Assembly			
43		Wheel a file Assembly Wave Washer			
44	57143	Locknut 3/18-16			
45	83923				
46	85463	Danger Decal			



88

ROTARY LAWN MOWER - MODEL NO. 917.377424

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 4 5 6 9 12 15	145793 STD541425 158755 145755 146527 150495 751152 701037	Control Bar Locknut 1/4-20 Hex Washer Head Screw 1/4 x 2.0 Control Cable Assembly V-Belt Spring Retainer Locknut 1/4-20 Selector Knob	23 24 26 30 32 36 37	12000058 150340 145212 150182 143603 154990 132010 137052	E-Ring Wheel & Tire Assembly Hex Flange Locknut Hubcap Pan Head Tapping Screw #10-24 x 2-3/4 Drive Cover Locknut Drive Pulley
18 19 21 22	88118 67725 88080 137054	FeltWasher Washer 1/2 x 1-1/2 x .134 DustCover Pinion	39 41 42 43 44 45	75192 137090 702511 152018 152019 86012	Spring Spring Gear Case Assembly Wheel Adjuster Assembly (Left) Wheel Adjuster Assembly (Right) Driveshaft Cover



CRAFTSMAN 4-CYCLE ENGINE

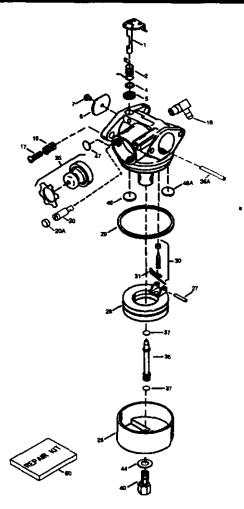
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MODEL	NUMBER	123.996510

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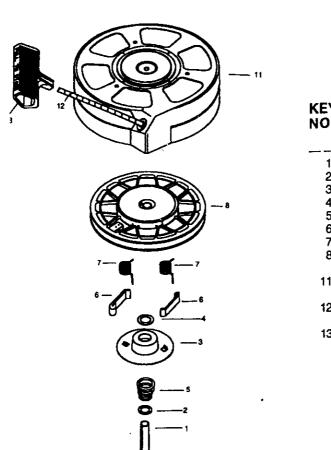
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	37266	Cylinder (Incl. 2,20 &	151	31673	Valve Spring Cap
		150)	151A	40017	Intake Valve Seal
2	26727	Dowel Pin	169	36783	* Valve Cover Gasket
6	33734	Breather Element	172	36784	Valve Cover
7	36557	Breather Ass'y. (Incl. 6 &	174	30200	Screw, 10-24 x 9/16"
40	36775	12A) Breathar Tuba	178	29752	Nut & Lock Washer, 1/4-
12 12A	36558	Breather Tube Breather Cover & Tube			28
127		(incl. 12B)	182	6201	Screw, 1/4-28 x 7/8"
12B	36694	Breather Tube Elbow	184	26756	* Carburetor To Intake
14	28277	Washer	185	00705	Pipe Gasket
15	30589	Governor Rod (Incl. 14)	186	36785 32653	Intake Pipe
16	34839A	Governor Lever	189	650839	Governor Link Screw, 1/4-20 x 3/8"
17	31335	Governor Lever Clamp	191	36559A	S.E. Brake Bracket (Incl.
18	651018	Screw, Torx T-15, 8-32 x		000007	195)
		19/64"	195	610973	Terminal
19	36281	Extension Spring	207	34336	Throttle Link
20	32600	Oil Seal	216	33086	R.P.M. Adjusting Lever
30	35801	Crankshaft	223	650451	Screw, 1/4-20 x 1"
40	40027	Piston, Pin & Ring Set	224	36786	* Intake Pipe Gasket
	40028	(Std.)	238	650932	Screw, 10-32 x 49/64*
	40020	Piston, Pin & Ring Set (.010" OS)	239	34338	* Air Cleaner Gasket
41	40025	Piston & Pin Ass'y.	241	36919	AirCleanerCollar
	40020	(Std.) (incl. 43)	245	36905	Air Cleaner Filter
	40026	Piston & Pin Ass'y.	250	36920	Air Cleaner Cover
		(.010" OS) (Incl. 43)	260 261	36980 30200	Blower Housing
42	40006	Ring Set (Std.)	262	650831	Screw, 10-24 x 9/16"
	40007	Ring Set (.010" OS)	263A	36921	Screw, 1/4-20 x 1/2" Starter Grill
43	20381	Piston Pin Retaining Ring	275	36790A	Muffler
45	36777	Connecting Rod Ass'y.	277	650988	Screw, 1/4-20 x 2-5/16"
		(Incl. 46)	285	35000A	Starter Cup
46	32610A	Connecting Rod Bolt	287	650926	Screw, 8-32 x 21/64"
48	27241	Valve Lifter	290	29774	FuelLine
50	36778	Camshaft (MCR)	292	26460	Fuel Line Clamp
52 69	29914 35261	Oil Pump Ass'y.	298	28763	Screw, 10-32 x 35/64*
70	34311E	* Mounting Flange Gasket Mounting Flange (Incl. 72	300	36916	Fuel Tank (Incl. 292 &
	OTOTIL	thru 83,306)	301	96046	301) 5
72	30572	Oil Drain Plug (Incl. 73)	305	36246 35647	Fuel Cap Oil Fill Tube
73	28833	Drain Plug Gasket	306	36996	* "O"-Ring
75	27897	Oil Seal	307	35499	"O"-Ring
80	30574A	Governor Shaft	309	650562	Screw, 10-32 x 1/2"
81	30590A	Washer	310	35648	Dipstick
82	30591	Governor Gear Ass'y.	313	34080	Spacer
~~	60700 L	(Incl. 81)	325	37152	Spring Clip
83	30588A	Governor Spool	347	651038	Screw, 10-32 x 51/64"
86	650488	Screw, 1/4-20 x 1-1/4"	370A	36261	Lubrication Decal
89 90	611004	Flywheel Key	370C	37199	PrimerDecal
92	611112 650815	Flywheel Belleville Washer	380	640174	Carburetor (Incl. 184)
93	650816	Flywheel Nut	390	590739	Rewind Starter
100	34443B	Solid State Ignition	400	36792B	Gasket Set (Incl. Items
101	610118	Spark Plug Cover	416	36085	Marked *) Spark Arrestor Kit (Incl.
103	651007	Screw, Torx T-15, 10-24	410	30063	417)(Optional)
		x 15/16"	417	650821	Screw, 10-32 x 1/2"
110	37047	Ground Wire	-107	COULT	(Optional)
119	36787	* Cylinder Head Gasket	900		Replacement Engine
120	36825	Cylinder Head			NONE
125	37288	Exhaust Valve (Std.)	900		Replacement S/B
		(Incl. 151)			750832A, order from 71-
126	37289	Intake Valve (Std.) (Incl.			999
100	00044	151)			RPM High 2900 to 3200
130	6021A	Screw, 5/16-18 x 1-1/2"		_	-
135	35395	Resistor Spark Plug			Could have been built with 590702
150	31672	(RJ19LM) Valve Spring	starter	J.	~
	- IV/L	a three opining	NOTE	: All compone	nt dimensions given in U.S. inches

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



KEY	PART	
NO.	NO.	DESCRIPTION
	640174	Carburetor (Incl. 184 of Engine Parts List)
1	631615	Throttle Shaft & Lever Assembly
2	631767	Throttle Return Spring
4	631184	* Dust Seal Washer
5	631183	* Dust Seal (Throttle)
6	640070	Throttle Shutter
7	650506	* Shutter Screw
16	631807	Fuel Fitting
17	651025	Throttle Crack Screw/Idle Speed
		Screw
18	630766	Tension Spring
20	640018	Idle Restrictor Screw
20A	640053	Idle Restrictor Screw Cap
25	631867	FloatBowl
27	631024	* Float Shaft
28	632019	Float
29	631028	* Float Bowl "O" Ring
30	631021	* Inlet Needle, Seat, & Clip (Incl. 31)
31	631022	SpringClip
35	36045A	Primer Bulb/Retainer Ring
36	640080	Main Nozzle Tube
36A	632766	Carburetor Tube
37	632547	* «O" Ring, Main Nozzle Tube
40	640175	High Speed Bowl Nut
44	27110A	Bowl Nut Washer
47	630748	* Welch Plug, Idle Mixture Well
48	631027	* Welch Plug, Atmospheric Vent
48A		* Welch Plug
60	632760	Repair kit (Incl. Items Marked *)

CRAFTSMAN 4-CYCLE ENGINE

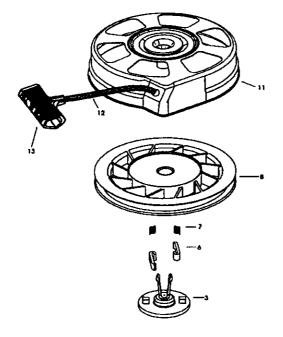


EY O.	PART NO.	D
1 2 3 4 5 6 7 8	590702 590599A 590600 590696 590601 590697 590698 590699 590699 590700	Re Sp Wa Re Br St Do Pu As
11 12 13	590703 590535 590701	5t (4) St 64 St

ESCRIPTION

ecoil Starter pring Pin (Incl. 4) lasher letainer Vasher rake Spring starter Dog Dog Spring Pulley & Rewind Spring ss'y. tarter Housing Ass'y, 10 degree grommet) tarter Rope (98" X 9/ 4" dia.) tarterHandle

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KEY NO.	PART NO.	ſ
	590739 590740 590616 590617 590618A	
11	590638	
12	590535	
13 14	590701 590760	

DESCRIPTION

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

For in-home major brand repair service: Call 24 hours a day, 7 days a week

1-800-4-MY-HomeSM (1-800-469-4663) Para pedir servicio de reparación a domicilio 1-800-676-5811

In Canada for all your service and parts needs call Au Canada pour tout le service ou les pièces 1-800-665-4455

For the repair or replacement parts you need: Call 6 am-11pm CST, 7 days a week PartsDirectsM 1-800-366-PART (1-800-366-7278)

Para ordenar piezas con entrega a domicilio 1-800-659-7084

For the location of a Sears Parts and Repair Center in your area: Call 24 Hours a day, 7 days a week 1-800-488-1222

For information on purchasing a Sears Maintenance Agreement or to inquire about an existing Agreement: Call 9 am-5 pm, Monday - Saturday 1-800-827-6655

