Owner's Manual



6.75 HORSEPOWER 22" REAR DISCHARGE POWER PROPELLED ROTARY LAWN MOWER

Model No. 917.378311

Safety Assembly Operation Maintenance Español Repair Parts

CAUTION:

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

Sears, Roebuck and Co., Hoffman Estates, IL 60179 Visit our Craftsman website: www.sears.com/craftsman

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WARRANTY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN POWER MOWER

For two years from date of purchase, when this Craftsman Lawn Mower is maintained, lubricated, and tuned up according to the operating and maintenance instructions in the owner's manual, Sears will repair free of charge any defect in material or workmanship.

If this Craftsman Lawn Mower is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase.

This Warranty does not cover:

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

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

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

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

SAFETY RULES

IMPORTANT: This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

I.GENERAL OPERATION

- Read, understand, and follow all instructions on the machine and in the manual(s) before starting. Be thoroughly familiar with the controls and the proper use of the machine before starting.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Only allow responsible individuals, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, bones, sticks, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.

- Do not operate the mower when barefoot or wearing open sandals. Always wear substantial foot wear.
- Do not pull mower backwards unless absolutely necessary. Always look down and behind before and while moving backwards.
- Do not operate the mower without proper guards, plates, grass catcher or other safety protective devices in place.
- See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.
- Stop the blade(s) when crossing gravel drives, walks, or roads.
- Stop the engine (motor) whenever you leave the equipment, before cleaning the mower or unclogging the chute.

- Shut the engine (motor) off and wait until the blade comes to complete stop before removing grass catcher.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Never operate machine in wet grass. Always be sure of your footing: keep a firm hold on the handle and walk; never run.
- Disengage the self-propelled mechanism or drive clutch on mowers so equipped before starting the engine (motor).
- If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
- Always wear safety goggles or safety glasses with side shields when operating mower.

II. SLOPE OPERATION

Slopes are a major factor related to slip and fall accidents which can result in severe injury. All slopes require extra caution. If you feel uneasy on a slope, do not mow it.

DO:

- Mow across the face of slopes: never up and down. Exercise extreme caution when changing direction on slopes.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Tall grass can hide obstacles.
 DO NOT:
- Do not trim near drop-offs, ditches or ombonkmente. The operator could be
- embankments. The operator could lose footing or balance.
- Do not trim excessively steep slopes.
- Do not mow on wet grass. Reduced footing could cause slipping.

III. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

 Keep children out of the trimming area and under the watchful care of another responsible adult.

- Be alert and turn machine off if children enter the area.
- Before and while walking backwards, look behind and *down* for small children.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do
 - Never refuel the machine indoors.
 - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Never make adjustments or repairs with the engine (motor) running. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices.
 Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never attempt to make wheel height adjustments while the engine (motor) is running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
 Do not change the engine governor patting or everypood the engine.
- setting or overspeed the engine.

ALook for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED. A WARNING: In order to prevent accidental starting when setting up,

accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot contact spark plug. **AWARNING:** Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

AWARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **Wash hands after handling.**

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.

11-12-12 **CLIPPING DEFLECTOR** STABILIZER FOR REAR DISCHARGE LAWN MOWERS **MULCHER KITS GRASS CATCHERS GRASS CATCHERS** FOR FOR SIDE DISCHARGE REAR DISCHARGE LAWN MOWERS LAWN MOWERS GAS CANS LAWN MOWER MAINTENANCE 0 (0 MUEELERS **AIR FILTERS** SPARK PLUGS ENGINE OIL BELTS BLADES **BLADE ADAPTERS** WHEELS

LAWN MOWER PERFORMANCE

ASSEMBLY

Read these instructions and this manual in its entirety before you attempt to assemble or operate your new lawn mower.

IMPORTANT: This lawn mower is shipped WITHOUT OIL OR GASOLINE in the engine.

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

TO REMOVE LAWN MOWER FROM CARTON

- 1. Remove loose parts included with mower.
- 2. 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 thorougly for additional loose parts.

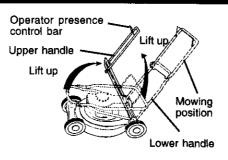
HOW TO SET UP YOUR LAWN MOWER

TO UNFOLD HANDLE

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

- 1. 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.
- 3. Remove handle padding holding operator presence control bar to upper handle.

Your lawn mower handle can be adjusted for your mowing comfort. Refer to "Adjust Handle" in the Service and Adjustments section of this manual.

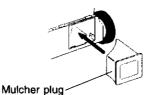


TO INSTALL ATTACHMENTS

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.

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. TO ENGINE ENGINE FAST SLOW CHOKE CAUTION FUEL OIL DANGER, KEEP HANI **OR WARNING** ON AND FEET AWAY OFF Engine zone control cable Operator presence control bar Drive control lever Starter handle Handle knob Grass catcher, Gasoline cap Mulcher plug Primer Housing Drive cover Engine oil cap w/ dipstick IMPORTANT: This lawn mower is shipped WITHOUT OIL OR GASOLINE in Wheel adjuster the engine. (on each wheel)

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 power-propelled forward motion of lawn mower. Mulcher plug - must be removed to convert to bagging or discharging

6 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

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

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

TO ADJUST CUTTING HEIGHT

Raise wheels for low cut and lower wheels for high cut, adjust cutting height to suit your requirements. Medium position is best for most lawns.

 To change cutting height, squeeze adjuster lever toward wheel. Move wheel up or down to suit your requirements. Be sure all wheels are in the same setting.

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

Lower Wheels for High Cut

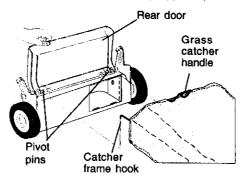




TO ATTACH GRASS CATCHER

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

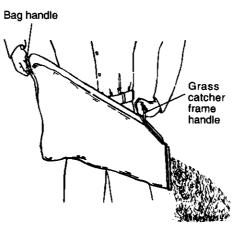
ACAUTION: Do not run your lawn mower without clipping deflector or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.



TO EMPTY GRASS CATCHER

- 1. Lift up on grass catcher using the frame handle.
- 2. Remove grass catcher with clippings from under lawn mower handle.
- 3. Empty clippings from bag using both frame handle and bag handle. **NOTE:** Do not drag the bag when

emptying; it will cause unnecessary wear.



ever

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 releasing 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 against handle to continue mowing without self-propelling.
- To keep drive control engaged when turning corners, push down on handle and lift front wheels off ground while turning lawn mower.

Operator presence control bar



To engage drive control Drive control disengaged

BEFORE STARTING ENGINE ADD OIL

Your lawnmower is shipped without oil in the engine. Engine holds 20 oz. of oil. For type and grade of oil to use, see "ENGINE" in Maintenance section of this manual.

- 1. Be sure lawnmower is level and area around oil fill is clean.
- Remove engine oit cap and fill to the full line on the dipstick. Pour oil slowly. Do not over fill.

NOTE: Allow oil to settle down into engine for accurate reading. To read proper level, tighten engine oil cap, then remove it to read the dipstick.

- 3. Reinstall engine oil cap and tighten.
- Check oil level before each use. Add oil if needed. Fill to full line on dipstick.
- Change the oil after every 25 hours of operation or each season. You may need to change the oil more often under dusty, dirty conditions.

ADD GASOLINE

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness. AWARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

A CAUTION: 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. Engine oil cap Gasoline filler cap



TO START ENGINE

NOTE: Due to protective coatings on the engine, a small amount of smoke may be present during the initial use of the product and should be considered normal.

- 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

 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.

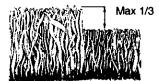
MOWING TIPS

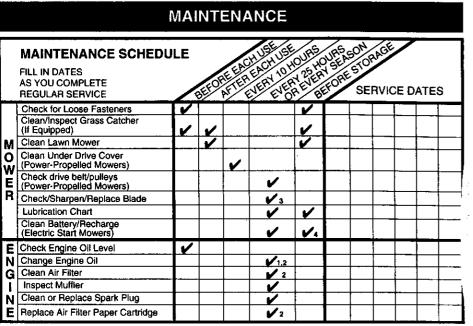
- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings. It may also be necessary to reduce ground speed and/or run the lawn mower over the area a second 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.





1 - Change more often when operating under a heavy load or in high ambient temperatures.

Service more often when operating in dirty or dusty conditions.
 Replace blades more often when mowing in sandy soil.

3 - Replace blades more often when movies
 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.

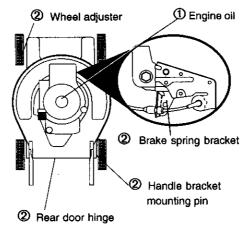
BEFORE EACH USE

- Check engine oil level.
 Check for loose fasteners.

LUBRICATION

Keep unit well lubricated (See "LUBRI-CATION CHART").

LUBRICATION CHART



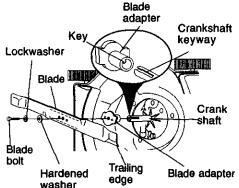
- ① Refer to maintenance "Engine" section.
- 2 Spray lubricant

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 10 graphite type lubricant sparingly.

PRODUCT SPECIFICATIONS

DATE OF PURCHASE	
GASOLINE CAPACITY/ TYPE:	1.5 QUARTS UNLEADED REGULAR
OILTYPE (API-SF-SJ):	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 fou lawn mower housing.Record both serial r provided above. 	
LAWN MOWER	TO REPLACE BLADE
Always observe safety rules when performing any maintenance. TIRES	 Position the blade adapter on the engine crankshaft. Be sure key in adapter and crankshaft keyway are
 Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber. 	aligned. 2. Position blade on the blade adapter aligning the two (2) holes in the blade with the raised lugs on the adapter.
 Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage. 	 Be sure the trailing edge of blade (opposite sharp edge) is up toward the engine.
BLADE CARE	4. Install the blade bolt with the lock
For best results, mower blade must be kept sharp. Replace bent or damaged blades.	washer and hardened washer intoblade adapter and crankshaft.5. Use block of wood between blade and
TO REMOVE BLADE	lawn mower housing and tighten the
1. Disconnect spark plug wire from spark plug and place wire where it cannot	 blade bolt, turning clockwise. The recommended tightening torque is 35-40 ft. lbs.
 come in contact with spark plug. 2. Turn lawn mower on its side. Make sure air filter and carburetor are up. 	IMPORTANT: Blade bolt is grade 8 heat treated.
3. Use a wood block between blade and mower housing to prevent blade from	TO SHARPEN BLADE NOTE: We do not recommend sharpen- ing blade - but if you do, be sure the
turning when removing blade bolt. NOTE: Protect your hands with gloves and/or wrap blade with heavy cloth. 4. Remove blade bolt by turning counter-	blade is balanced. Care should be taken to keep the blade balanced. An unbalanced blade will
clockwise.5. Remove blade and attaching hard- ware (bolt, lock washer and hardened	 cause eventual damage to lawn mower or engine. The blade can be sharpened with a file or on a grinding wheel. Do not attempt
washer). NOTE: Remove the blade adapter and check the key inside hub of blade adapter. The key must be in good condi-	to sharpen while on the mower.
tion to work properly. Replace adapter if damaged.	

 To check blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of blade over the head of the nail. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.



GRASS CATCHER

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

DRIVE WHEELS

Check front drive wheels each time before you mow to be sure they move freely.

The wheels not turning freely means trash, grass cuttings, etc. are in the drive wheel area and must be cleaned to free drive wheels.

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

- 1. Remove hubcaps, hairpin cotters and washers.
- 2. Remove wheels from wheel adjusters.
- 3. Remove any trash or grass cuttings
- from inside the dust cover, pinion and/ or drive wheel gear teeth.
- 4. Put wheels back in place.

NOTE: If after cleaning, the drive wheels do not turn freely, contact a Sears or other qualified service center.

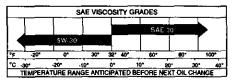
GEAR CASE

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

ENGINE

LUBRICATION

Use only high quality detergent oil rated with API service classification SF-SJ. 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.

- 1. Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with spark plug.
- 2. 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.
- 4. Wipe off any spilled oil on lawn mower and on side of engine.
- Fill engine with oil. (See "Add Oil" in the Operacion section of this manual.)
- Reconnect spark plug wire to spark plug.

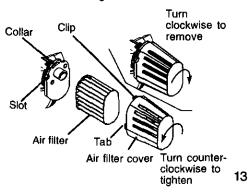


AIR FILTER

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.
- 2. Remove filter from inside of cover.
- Clean the inside of the cover and the collar to remove any dirt accumulation.
- 4. Insert new filter into cover.
- 5. Put air filter cover and filter into collar aligning the tab with the slot.
- 6. Push in on cover and turn counterclockwise to tighten.



MUFFLER

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

SPARK PLUG

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

CLEANING

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

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

- 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.

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SERVICE AND ADJUSTMENTS

ACAUTION: Before performing any service or adjustments:

- Release control bar and stop engine.
 Make sure the blade and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place where it cannot come in contact with plug.

LAWN MOWER

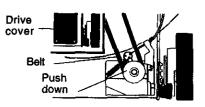
TO ADJUST CUTTING HEIGHT

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

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

TO REMOVE/REPLACE DRIVE BELT

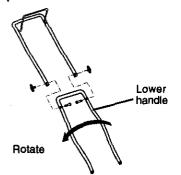
- 1. Remove drive cover. Remove belt from gearcase pulley by pushing down on pulley and rolling belt off it.
- 2. Turn lawn mower on its side with air filter and carburetor up.
- 3. Remove blade.
- 4. Remove debris shield.
- 5. Remove belt from engine pulley on crankshaft.
- Install new belt by reversing 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.

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

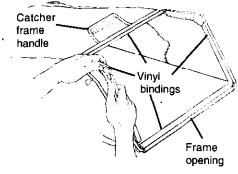


TO ASSEMBLE GRASS CATCHER

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

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

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



ENGINE

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 a Sears or other qualified 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 a Sears or other qualified 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 a Sears or other qualified 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.

- 1. Clean entire lawn mower (See "CLEANING" 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.
- 4. Touch up all rusted or chipped paint surfaces; sand lightly before painting.

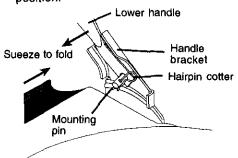
HANDLE

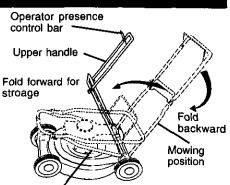
You can fold your lawn mower handle for storage.

- 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.





Lower handle ENGINE

FUEL SYSTEM

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

- 1. Drain the fuel tank.
- 2. 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

- 1. Remove spark plug.
- Pour one ounce (29 ml) of oil through spark plug hole into cylinder.
- 3. Pull starter handle slowly a few times to distribute oil.
- 16^{4.} 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.

TROUBLESHOOTING CHART						
PROBLEM	CAUSE	CORRECTION				
Does not start	 Dirty air filter. Out of fuel. Stale fuel. Water in fuel. 	 Clean/replace air filter. Fill fuel tank. Drain tank and refill with fresh clean fuel. Drain fuel tank and carburetor and refill tank with fresh gasoline. 				
	 Spark plug wire is disconnected. Bad spark plug. Loose blade or broken blade adapter. Control bar in released position. Control bar defective. 	 Connect wire to plug. Replace spark plug. Tighten blade bolt or replace blade adapter. Depress control bar to handle. Replace control bar. 				
Loss of power	 Rear of lawn mower housing or cutting blade dragging in heavy grass. Cutting too much grass. Dirty air filter. Buildup of grass, leaves, and trash under mower. Too much oil in engine. Walking speed too fast. 	 Set to "Higher Cut" position. Set to "Higher Cut" position. Clean/replace air filter. Clean underside of mower housing. Check oil level. Cut at slower walking speed. 				
Poor cut – uneven	 Worn, bent or loose blade. Wheel heights uneven. Buildup of grass, leaves and trash under mower. 	 Replace blade. Tighten blade bolt. Set all wheels at same height Clean underside of mower housing. 				
Excessive vibration	 Worn, bent or loose blade. Bent engine crankshaft. 	 Replace blade. Tighten blade bolt. Contact a Sears or other qualified service center. 				

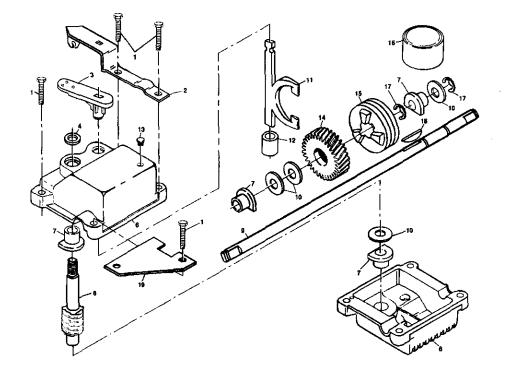
Cover your unit with a suitable protec-tive cover that does not retain mois-• ture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your unit to rust. IMPORTANT: Never cover mower while engone and exhaust areas are still warm. A CAUTION: Never store the lawn 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.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION	-
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. 		14 20,00
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. 	a second de la seconda a s
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. 	Ú.
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

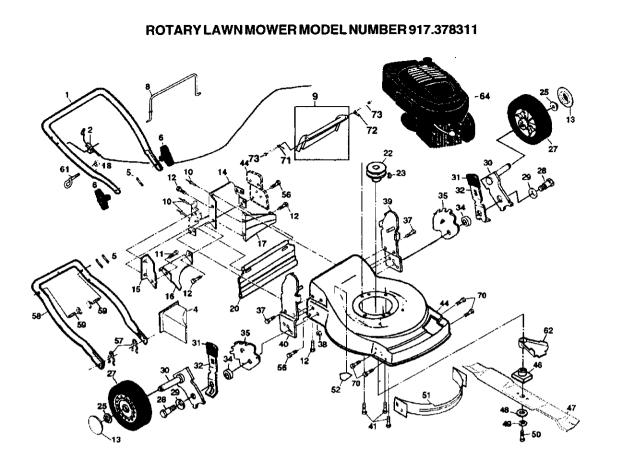
ROTARY LAWN MOWER -- MODEL NO. 917.378311 GEAR CASE ASSEMBLY PART NUMBER 702511



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	17490416	Tapping Screw 1/4-20 x 1-1/4	9 10	137074 57079	Drive Shaft Hardened Washer
2	137055X004	Engagement Bracket	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
-	33004	and 7)	16	750369	Grease
	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

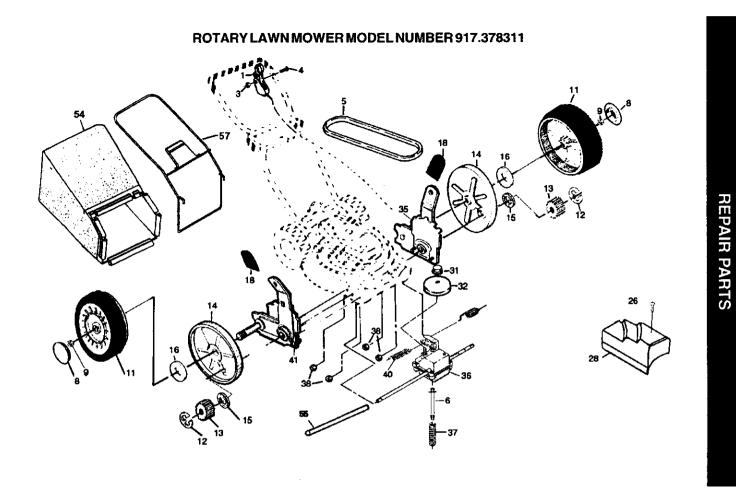
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REPAIR PARTS

ROTARY LAWN MOWER MODEL NUMBER 917.378311

1 166860X479 Upper Handle 38 751592 Nut 2 164322 Engine Zone Control Cable 39 173569X479 Handle Bracket Assembly (Left) 4 150425 Mulcher Plug 40 173570X479 Handle Bracket Assembly (Right) 5 66426 Wire Tie 41 150406 Hex Head Thread Rolling Screw 3/8-16 x 1-1/8 6 136376 Handle Knob 44 172835 Lawn Mower Housing (Incl. Key #14, 15, 51 & 52) 8 146771 Control Bar 47 141114 Blade Adapter 9 170947 Rear Door Kit 47 141114 Blade Adapter 10 128415 Pop Rivet 48 851074 Hardened Washer 11 150050 Self Tapping Screw #10-16 x 1/2 50 851084 Hex Head Machine Screw 3/8-24 x 1-3/8 Gr. 8 12 54583 Hex Tapping Screw #10-16 x 1/2 50 851084 Hex Head Machine Screw 3/8-24 x 1-3/8 Gr. 8 13 150182 Hubcap 52 85463 Danger Decal <tr< th=""></tr<>
37 150078 Thread Cutting Screw w/Sems 5/16-18 x 3/4

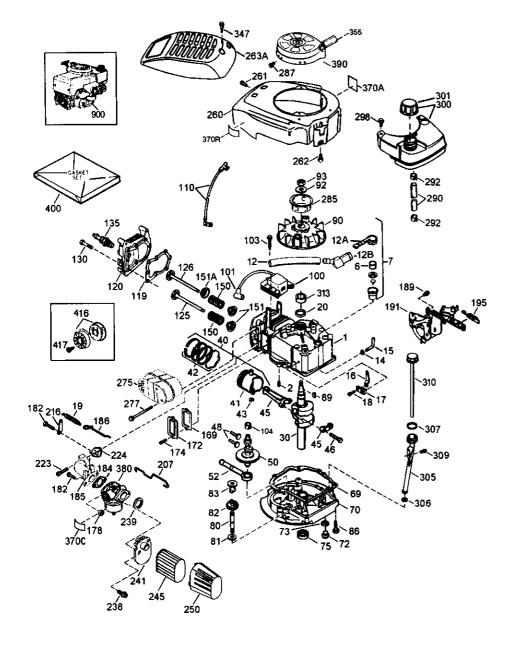


ROTARY LAWN MOWER MODEL NUMBER 917.378311

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1 3 4 5 6 8 9 11 12 13 14 14	145755 751152 158755 146527 150495 150182 145212 150340 12000058 137054 88080	Control Cable Assembly Locknut #10-24 Hex Washer Head Screw 1/4-20 x 2.12 V-Belt Spring Retainer Hubcap Locknut Wheel & Tire Assembly E-Ring Pinion Dust Cover	28 31 32 35 36 37 37 38 40 41 54 55	154990 132010 137052 151521 702511 137090 63601 75192 151520 169932 86012	Drive Cover Hex Flange Nut Drive Pulley Wheel Adjuster Assembly (Left) Gear Case Assembly Spring Locknut 1/4-20 Spring Wheel Adjuster Assembly (Right) Grassbag Assembly
15 16	88118 67725	Felt Washer Washer 1/2 x 1-1/2 x .134	57	169931	Driveshaft Cover Grassbag Frame
18 26	701037 143603	Selector Knob Pan Head Tapping Screw #10-24 x 2-3/4			-

Pan Head Tapping Screw #10-24 x 2-3/4 143603

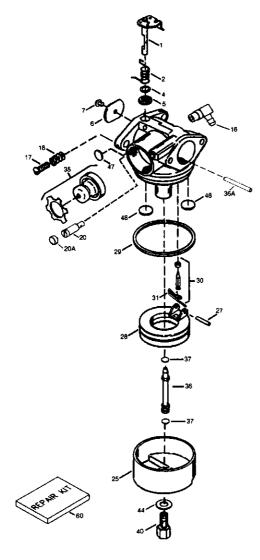
MODEL NO. 143.016700



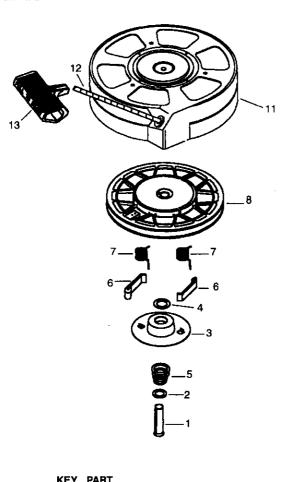
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MODEL NO. 143.016700

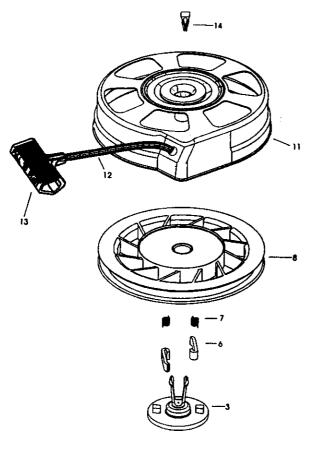
	(EY 10.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		37465	Cylinder (Incl. 2 & 20)	178	29752	Nut & Lock Washer, 1/4-28
· 2		26727	Dowel Pin	182	6201	Screw, 1/4-28 x 7/8"
6		33734	Breather Element	184	26756 *	Carburetor To Intake Pipe
7	2	36557	Breather Ass'y, (Incl. 6 & 12A)			Gasket
	2A	36775 36558	Breather Tube Breather Cover & Tube (Incl.	185	37466	Intake Pipe
'	27	30330	12B)	186	32653	Governor Link
1	28	36694	Breather Tube Elbow	189	650839	Screw, 1/4-20 x 3/8"
	4	28277	Washer	191	36559A	S.E. Brake Bracket (Incl. 195)
1	5	30589	Governor Rod (Incl. 14)	195 207	610973 34336	Terminal Throttle Link
	6	34839A	Governor Lever	216	33086	R.P.M. Adjusting Lever
	7	31335	Governor Lever Clamp	223	650451	Screw, 1/4-20 x 1"
1	8	651018	Screw, Torx T-15, 8-32 x 19/	224	36786 *	Intake Pipe Gasket
1	9	36781	64" Extension Spring	238	650932	Screw, 10-32 x 49/64"
	20	36281 32600	Extension Spring Oil Seal	239	34338 *	Air Cleaner Gasket
	iõ	37464	Crankshaft	241	36919	Air Cleaner Collar
	iō –	40027	Piston, Pin & Ring Set (Std.)	245	36905	Air Cleaner Filter
	11	40042	Piston & Pin Ass'y. (Std.)	250 260	37122 36980	Air Cleaner Cover
			(Incl. 43)	261	30200	Blower Housing Screw, 10-24 x 9/16"
	2	40006	Ring Set (Std.)	262		Screw, 1/4-20 x 1/2"
	13	20381	Piston Pin Retaining Ring		37184	Recoil Grille
4	15	36777	Connecting Rod Ass'y. (Incl.	275	37462	Muffler
Δ	6	32610A	46) Connecting Rod Bolt	277	650988	Screw, 1/4-20 x 2-5/16"
	ß	27241	Valve Lifter	285	35000A	Starter Cup
	0	37460	Camshaft Exhaust(MCR)(Inc.	287	650926	Screw, 8-32 x 21/64*
			ref 104)	290 292	29774 26460	Fuel Line
	52	29914	Oil Pump Ass'y.	292	28763	Fuel Line Clamp Screw, 10-32 x 35/64"
	9	37130 *	Mounting Flange Gasket	300	36916	Fuel Tank (Incl. 292 & 301)
	0	34311E	Mounting Flange (Incl. 72	301	36246	Fuel Cap (Black)
7	2	30572	thru 83) Oil Drain Riva (Incl. 73	305	35647	Oil Fill Tube
	3	28833	Oil Drain Plug (Incl. 73 Drain Plug Gasket	306	36996 *	"O"-Ring
	'Š	27897	Oil Seal	307	35499	"O"-Ring
	٥Õ	30574A	Governor Shaft	309	650562	Screw, 10-32 x 1/2"
8	31	30590A	Washer	310 313	35648 34080	Dipstick Spacer
8	32	30591	Governor Gear Ass'y. (Incl.	347		Screw, 10-32 x 51/64*
		005004	81)		36261	Lubrication Decal
	33	30588A	Governor Spool		37318	Primer Decal (3 X)
	36 39	650488 611004	Screw, 1/4-20 x 1-1/4"		37317	Warning Decal
	90	611112	Flywheel Key FlywheelA	380		Carburetor (Incl. 184)
	92	650815	Belleville Washer	390	590739	Rewind Starter
	93	650816	Flywheel Nut	400	36792B	Gasket Set (Incl. Items
	00	34443C	Solid State Ignition	416	36085	Marked * in Notes) Spark Arrestor Kit (Incl.
	01	610118	Spark Plug Cover	410	30003	417)(Optional)
1	03	651007	Screw, Torx T-15, 10-24 x 15/	417	650760	Screw, 8-32 x 3/8" (Optional)
•	04	37480	16" Cam Bushina	900		Replacement Engine NONE
	10	37047	Cam Bushing Ground Wire	900		Replacement S/B 750865
	19	36787 *	Cylinder Head Gasket			Order from 71 -999
	20	36825	Cylinder Head			RPM High 2900 to 3200
1	25	36780	Exhaust Valve (1/32* OS)	NOTE		e could have been built with
			(Incl. 151))2 starter	e could have been built with
		37288	Exhaust Valve (Std.) (Incl.			
1	26	37289	151) Intake Valve (Std.) (Incl. 151)			nent dimensions given in U.S.
	30	6021A	Screw, 5/16-18 x 1-1/2*	inches	s 1 inch = 25	5.4 mm
	35	37598	Resistor Spark Plug			
			(RJ19LM4)			
	50	31672	Valve Spring			
	51	31673	Valve Spring Cap			
		40017	Intake Valve Seal			
	69 72	36783 * 36784	Valve Cover Gasket Valve Cover			
	74	30200	Screw, 10-24 x 9/16"			
•						



640271Carburetor (Incl. 184 of Engine Parts List)131615Throttle Shaft & Lever Assembly231767Throttle Shaft & Lever Assembly4631184Dust Seal Washer5631183Dust Seal (Throttle)6640070Throttle Shutter7650506Shutter Screw16631807Fuel Fitting17651025Throttle Crack Screw/Idle Speed Screw18630766Tension Spring20640027Idle Restrictor Screw18631024Float Bowl27631024Float Bowl28632019Float Bowl "O" Ring30631021Inlet Needle, Seat, & Clip (Incl. 31)31631022Spring Clip35640259Primer Bulb/Retainer Ring4Market March Parket5640259Primer Bulb/Retainer Ring	KEY NO.	PART NO.		DESCRIPTION
36 640080 Main Nozzle Tube 36A 632766 Carburetor Tube 37 632547 "O" Ring, Main Nozzle Tube 40 640030 High Speed Bowl Nut 44 27110A Bowl Nut Washer 47 630748 Welch Plug, Idle Mixture Well 48 631027 Welch Plug, Atmospheric Vent 60 632760B Repair kit (Incl. Items Marked * in Notes)	2456716718200A2572890315566A3374044748	31615 31767 631184 631183 640070 650506 631807 651025 630766 640027 640200 631867 631024 631024 631028 631021 631022 640259 640080 632766 632547 640030 27110A 630748 631027	* * * *	Throttle Shaft & Lever Assembly Throttle Return Spring Dust Seal Washer Dust Seal (Throttle) Throttle Shutter Shutter Screw Fuel Fitting Throttle Crack Screw/Idle Speed Screw Tension Spring Idle Restrictor Screw Idle Restrictor Screw (Black) Float Bowl Float Shaft Float Bowl "O" Ring Inlet Needle, Seat, & Clip (Incl. 31) Spring Clip Primer Bulb/Retainer Ring Main Nozzle Tube Carburetor Tube "O" Ring, Main Nozzle Tube High Speed Bowl Nut Bowl Nut Washer Welch Plug, Idle Mixture Well Welch Plug, Atmospheric Vent



NO.	NO.	DESCRIPTION
	590702	Recoil Starter
1	590599A	Spring Pin (Incl. 4)
2	590600	Washer
3	590696	Retainer
4	590601	Washer
1 2 3 4 5 6	590697	Brake Spring
6	590698	Starter Dog
7 8	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
3 6 7 8	590739 590740 590616 590617 590618A	Rewind Starter Retainer Starter Dog Dog Spring Pulley & Rewind Spring
11	59 06 38	Ass'y Starter Housing Ass'y (40 degree grommet)
12	590535	Starter Rope (Length 98" x 9/64" dia.)
13 14	590701 590760	Starter Handle Spring Clip

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