Owner's Manual

CRAFTZMAN®

6.5 HORSEPOWER
21" MULTI-CUT
POWER PROPELLED
ROTARY LAWN MOWER

Model No. 917.377880

- 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

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 your 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!!! BECOMEALERT!!! YOUR SAFETY IS INVOLVED.

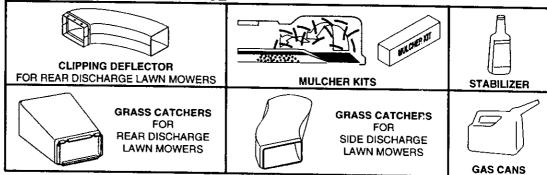
ACAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.

A WARNING: The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

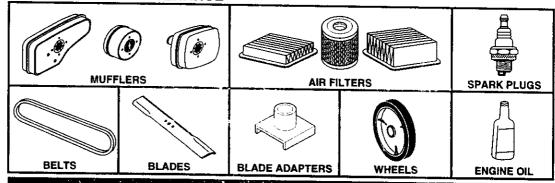
ACCESSORIES

These accessories were available when this lawn mower was produced. They are not shipped with your mower. They are also available at most Sears retail outlets and service centers. Most Sears stores can also order repair parts for you, when you provide the model number of your lawn mower. Some of these accessories may not apply to your lawn mower.

LAWN MOWER PERFORMANCE



LAWN MOWER MAINTENANCE



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 abjunted.

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.

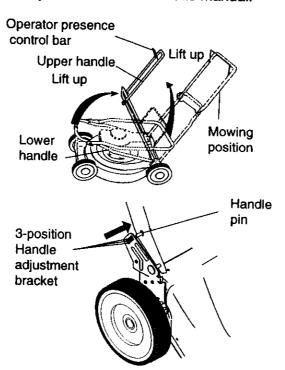
HOW TO SET UP YOUR LAWN MOWER

TO UNFOLD HANDLE

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

- Raise lower handle section to operating position and squeeze the bottom ends of lower handle towards each other until the pin in handle can be inserted into one of the three height adjustment holes.
- Remove protective padding, raise upper handle section into place on lower handle and tighten both handle knobs.
- Remove any packing material from around control bar.

 Your handles may be adjusted for your mowing comfort. Refer to 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; See OPERATION section of this manual.

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.

















CAUTION OR WARNING

ENGINE ON ENGINE

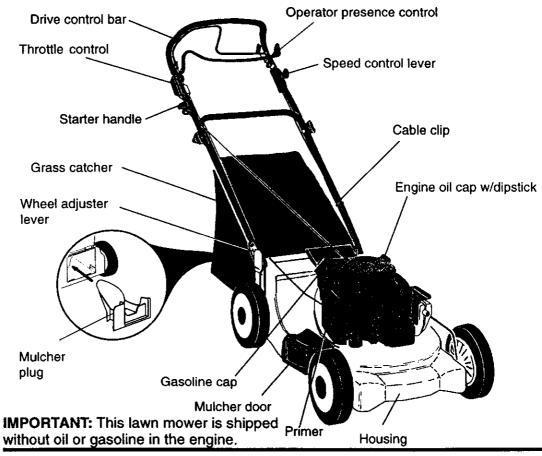
FAST

SLOW

CHOKE

FUEL

IL DANGER, KEEP HANDS AND FEET AWAY



MEETS CPSC SAFETY REQUIREMENTS

Sears rotary walk-behind power lawn mowers conform to the safety standards of the American National Standards Institute and the U.S. Consumer Product Safety Commission. The blade turns when the engine is running.

Operator presence control - 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 bar - used to engage power-propelled foward motion of lawn mower.

Mulcher plug - Located at the rear discharge opening must be removed when converting to bagging operation.

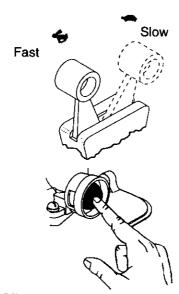


The operation of any lawn mower can result in foreign objects thrown into the eyes, which can result in

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

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



ENGINE ZONE CONTROL

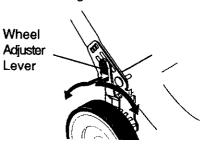
ACAUTION: Federal regulations require an engine control to be installed on this lawn mower in order to minimize the risk of blade contact injury. Do not under any circumstances attempt to defeat the function of the operator control. The blade turns when the engine is running.

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

TO ADJUST CUTTING HEIGHT

- All four wheels are adjusted by a single lever.
- Pull adjuster lever toward wheel. To raise mower, move lever forward to desired position. To lower mower, move the lever toward the rear.

Lower Wheels for high cut



Raise Wheels for low cut GROUND DRIVE SPEEDS

Your lawn mower provides multiple speeds to let you select the speed that suits you best.

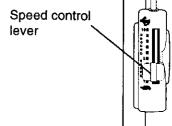
- Lower speeds are for slow, heavy/thick grass cutting or trimming.
- Medium speeds are for normal grass cutting or trimming.
- High is for light cutting and for ground transport.

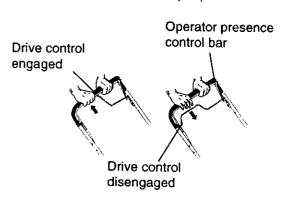
NOTE: Do not move speed control lever unless the engine is running

TO OPERATE DRIVE SYSTEM

- With engine running, select ground speed by moving speed control lever to desired position.
- To start forward motion, pull drive control bar back against handle.
- To stop forward motion, release drive control bar.

IMPORTANT: Always keep drive control bar fully engaged against handle when in use.





TO CONVERT MOWER

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

REAR BAGGING-

- Open rear door and remove mulcher plug. Store mulcher plug in a safe place.
- To convert to mulching or discharging operation, install mulcher plug into rear discharge opening of mower.

SIDE DISCHARGING-

- · Rear door must be closed.
- Open mulcher door and install discharge deflector under guard as shown.
- Mower is now ready for discharging operation.
- To convert to mulching or bagging operation, discharge deflector must be removed and mulcher door must be closed.

SIMPLE STEPS TO REMEMBER

WHEN CONVERTING YOUR LAWN MOWER

FOR MULCHING -

- · Rear mulcher plug installed.
- · Mulcher door closed.

FOR REAR BAGGING -

- · Rear mulcher plug removed.
- · Grass catcher installed.
- · Mulcher door closed.

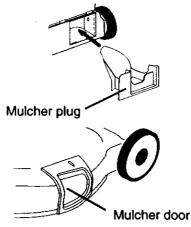
FOR SIDE DISCHARGING -

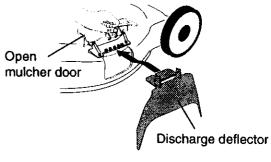
- Rear mulcher plug installed.
- Side discharge deflector installed.

ACAUTION: Do not run your lawn mower without rear mulcher plug in place or approved grass catcher in place.

Never attempt to operate the lawn mower

with the rear door removed or propped open.

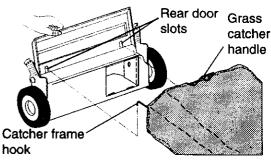






TO ATTACH GRASS CATCHER

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

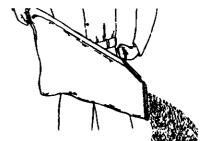


ACAUTION: Do not run your lawn mower without rear mulcher plug or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.

TO EMPTY GRASS CATCHER

- Lift up on grass catcher using the frame handle.
- Remove grass catcher with clippings from under lawn mower handle.
- Empty clippings from bag using both frame handle and bag handle.

NOTE: Do not drag the bag when emptying; it will cause unnecessary wear.



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 reading.

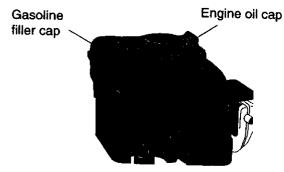
- Engine holds 20 ozs. of oil. For type and grade of oil to use, see "ENGINE" in maintenance section of this manual.
- Pour oil slowly. Do not over fill.
- Check oil level before each use. Add oil if needed. Fill to full line on dipstick.
- To read proper level, tighten engine oil cap each time.
- · 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 fuel tank, start the engine and let it run until 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 fuel tank or permanent damage may occur.

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



TO START ENGINE

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

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

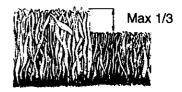
MOWING TIPS

- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings. It may also be necessary to reduce ground speed and/or run the lawn mower over the area a second time
- For extremely heavy cutting, reduce the width of cut by overlapping previously cut path and mow slowly.
- For better grass bagging and most cutting conditions, the engine speed should be set in the fast position.
- Pores in cloth grass catchers can become filled with dirt and dust with use and catchers will collect less grass.
 To prevent this, regularly hose catcher off with water and let dry before using.
- Keep top of engine around starter clear and clean of grass clippings and chaff.
 This will help engine air flow and extend engine life.

MULCHING MOWING TIPS

IMPORTANT: For best performance, keep mower housing free of built-up grass and trash. See "Cleaning" in MAINTENANCE section of this manual.

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the lawn mower cutting height so that the lawn mower cuts off only the top one-third of the grass blades. If the lawn is overgrown it will be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of mulched grass. For extremely heavy mulching, reduce your width of cut by overlapping previously cut path and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.



MAINTENANCE

	MAINTENANCE SCHEDU FILL IN DATES AS YOU COMPLETE REGULAR SERVICE	JLE	a EFO	E EACH	AUSE ISE LEACH 10 H WERY 10 H	OURS N 25 HOV R EVERY R E BEF	RESCON SEASTOR ORE STOR	RVICE D	ATES
MOWER	Check for Loose Fasteners Clean/Inspect Grass Catcher (If Equipped) Clean Lawn Mower Clean Under Drive Cover (Power-Propelled Mowers) Check drive belt/pulleys (Power-Propelled Mowers) Check/Sharpen/Replace Blade Lubrication Chart Clean Battery/Recharge (Electric Start Mowers)	V V	<i>y</i>	V	<i>V V S V V</i>	V V V			
MZG-ZE	Check Engine Oil Level Change Engine Oil Clean Air Filter Inspect Muffler Clean or Replace Spark Plug Replace Air Filter Paper Cartridge	V			V _{1,2} V V V				

- 1 Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions.
- 3 Replace blades more often when mowing in sandy soil.
- 4 Charge 48 hours at end of season.

GENERAL RECOMMENDATIONS

The warranty on this lawn mower does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain mower as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your unit. All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- Once a year, replace the spark plug, replace air filter element and check blade for wear. A new spark plug and clean/new air filter element assures proper air-fuel mixture and helps your engine run better and last longer.
- Follow the maintenance schedule in this manual.

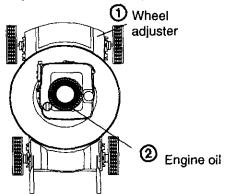
BEFORE EACH USE

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

LUBRICATION

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

LUBRICATION CHART



- Spray lubricant
- Refer to MAINTENANCE "ENGINE" section.

IMPORTANT: Do not oil or grease plastic wheel bearings. Viscous lubricants will attract dust and dirt that will shorten the life of the self lubricating bearings. If you feel they must be lubricated, use only a dry, powdered graphite type lubricant sparingly.

PRODUCT SPECIFICATIONS

SERIAL NUMBER	
DATE OF PURCHASE	
GASOLINE CAPACITY/ TYPE:	1.6 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
BLADE BOLT TORQUE:	35-40 FT, LBS.
 The model and serial numbers will be lawn mower housing. Record both seri provided above. 	found on a decal attached to the rear of the al number and date of purchase in space

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.

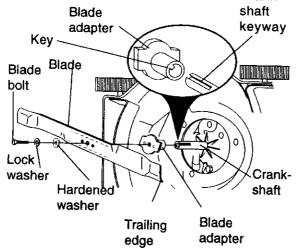
IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

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

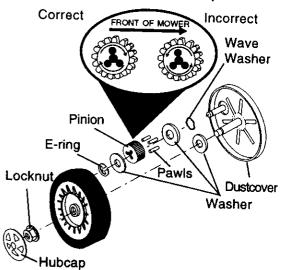
- The grass catcher may be hosed with water, but must be dry when used.
- Check your grass catcher often for damage or deterioration. Through normal use it will wear. If catcher needs replacing, replace only with a manufacturer approved replacement catcher. Give the lawn mower model number when ordering.

DRIVE WHEELS

Check rear drive wheels each time you mow to be sure they move freely. The wheels not turning freely means trash, grass cuttings, etc., may be inside the drive wheel and dust cover area and must be cleaned out to free drive wheels. If necessary to clean the drive wheels, check both rear wheels.

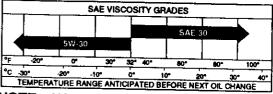
- · Remove hubcaps and locknuts.
- Remove wheels from wheel adjuster axles.
- Remove any trash or grass cuttings from inside the dust cover, pinion and/ or drive wheel gear teeth.

- If you remove the drive pinions, wipe clean with dry cloth. Reassemble dry. Do not lubricate. Do not use oil or grease.
- The pinion gear, on both sides of the mower, are the same, however, they must be installed correctly. If installed incorrectly, the drive system will not work.
- There are arrows embossed on both sides of the pinion gear. With the arrow at the top of the pinion, the arrow must point towards front of mower. If the arrow points to the rear, turn the pinion around and assemble to mower.
- · Place wheels back on adjuster axles.
- Replace locknuts and hubcaps.



ENGINE LUBRICATION

Use only high quality detergent oil rated with API service classification SF, SG or SH. Select the oil's SAE viscosity grade according to your expected operating temperature.



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

Change the oil after every 25 hours of operation or at least once a year if the lawn mower is not used for 25 hours in one year.

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

TO CHANGE ENGINE OIL

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

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



AIR FILTER

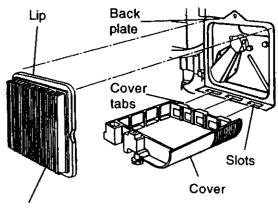
Your engine will not run properly and may be damaged by using a dirty air filter. Replace the air filter every year, more often if you mow in very dusty, dirty conditions.

TO CLEAN AIR FILTER

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

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

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



Cartridge

MUFFLER

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

SPARK PLUG

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

CLEANING

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

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

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.

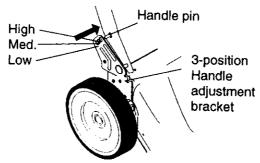
REAR DEFLECTOR

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

TO ADJUST HANDLE

The handle on your lawn mower has three (3) height positions - adjust to height that suits you.

 Squeeze the bottom ends of lower handle towards each other until the pin in handle can be inserted into one of the three height adjustment holes.

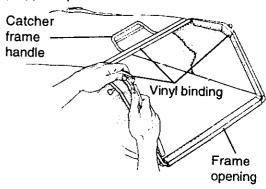


TO ASSEMBLE GRASS CATCHER

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

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

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



ENGINE SPEED

Your engine speed has been factory set. Do not attempt to increase engine speed or it may result in personal injury. If you believe that the engine is running too fast or too slow, take your lawn mower to an authorized service center/department 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/department for repair and adjustment.

IMPORTANT: Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest authorized service center, which has proper equipment and experience to make any necessary adjustments.

STORAGE

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

LAWN MOWER

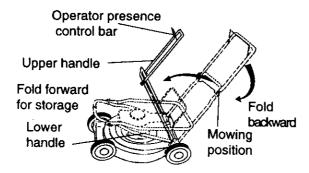
When lawn mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

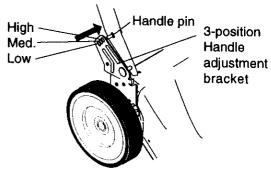
- Clean entire lawn mower (See "CLEANING" in the Maintenance section of this manual).
- Lubricate as shown in the Maintenance section of this manual.
- Be sure that all nuts, bolts, screws, and pins are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch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

HANDLE

- You can fold your lawn mower handle for storage.
- Loosen the two (2) handle knobs on sides of the upper handle and allow handle to fold down to the rear.
- Squeeze the bottom ends of lower handle toward each other until pins in handle clear the brackets and pivot entire handle assembly forward and allow it to rest on mower.
- When setting up your handle from the storage position, the lower handle will require manually locking into the mowing position.

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





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.

16

- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your unit indoors and cover it to give protection from dust and dirt.
- Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your unit to rust.

IMPORTANT: Never cover mower while engine and exhaust areas are still warm.

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

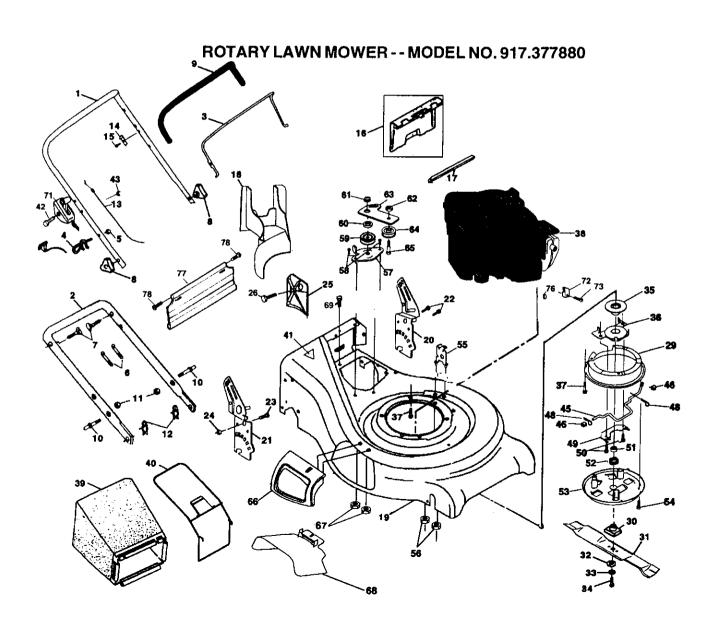
TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Will not start	 Dirty air filter. Out of fuel. Stale fuel. Water in fuel. Spark plug wire is disconnected Bad spark plug. Loose blade or broken blade adapter. Control bar in released position Control bar defective 	 Clean/replace air filter. Fill fuel tank. Drain tank and refill with fresh clean fuel. Drain fuel tank and carburetor and refill tank with fresh gasoline. Connect wire to plug. Replace spark plug. Tighten blade bolt or replace blade adapter. Depress control bar to handle.
Loss of power	1. Rear of lawn mower housing/blade dragging in heavy grass. 2. Cutting too much grass. 3. Dirty air filter.	 Set in "Higher Cut" position. Set in "Higher Cut" position. Clean/replace air filter.
	4. Buildup of grass, leaves and trash under mower.5. Too much oil in engine.6. Walking speed too fast.	4. Clean underside of mower housing5. Check oil level.6. Cut at slower walking speed.
Poor cut - uneven	Worn, bent or loose blade. Buildup of grass, leaves, and trash under mower.	 Replace blade. Tighten blade bolt. Clean underside of mower housing
Excessive vibration	Worn, bent or loose blade. Bent engine crankshaft.	Replace blade. Tighten blade bolt. Contact an authorized service center/department.
Starter rope hard to pull	Engine flywheel brake is on when control bar is released 2. 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/department. Replace blade adapter. Move lawn mower to cut grass or to hard surface to start engine.

TROUBLESHOOTING CHART

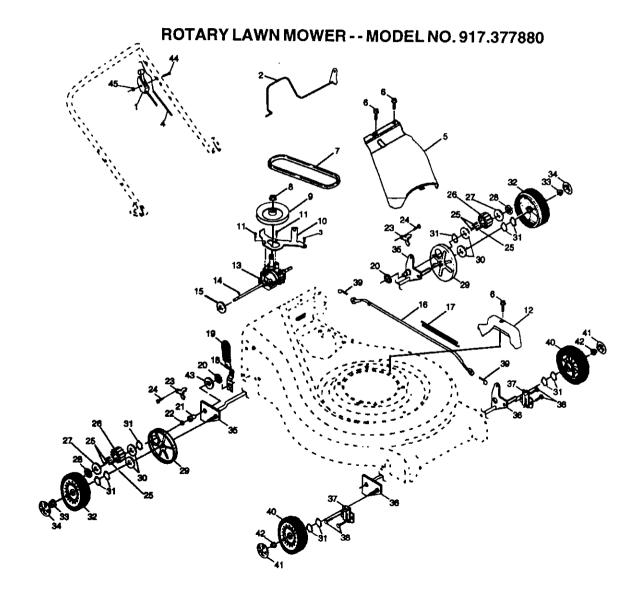
PROBLEM	CAUSE	CORRECTION
Grass catcher not filling (If so equipped)	 Cutting height too low. Lift on blade worn off. Catcher not venting air. 	 Raise cutting height. Replace blade. Clean grass catcher.
Hard to push	Grass is too high or wheel height is too low.	Raise cutting height.
	Rear of lawn mower housing/blade dragging in grass.	Raise rear of lawn mower housing one (1)setting higher.
	Grass catcher too full.	3. Empty grass catcher.
	Handle height position not right for you.	4. Adjust handle height to suit.
Loss of drive	1. Belt wear.	Check/replace drive belt.
	Belt off of pulley.	2. Check/reinstall drive belt.
	3. Drive cable worn or broken.	3. Replace drive cable.
	4. Dirt in drive pinions.	4. Clean drive pinions.

SERVICE NOTES



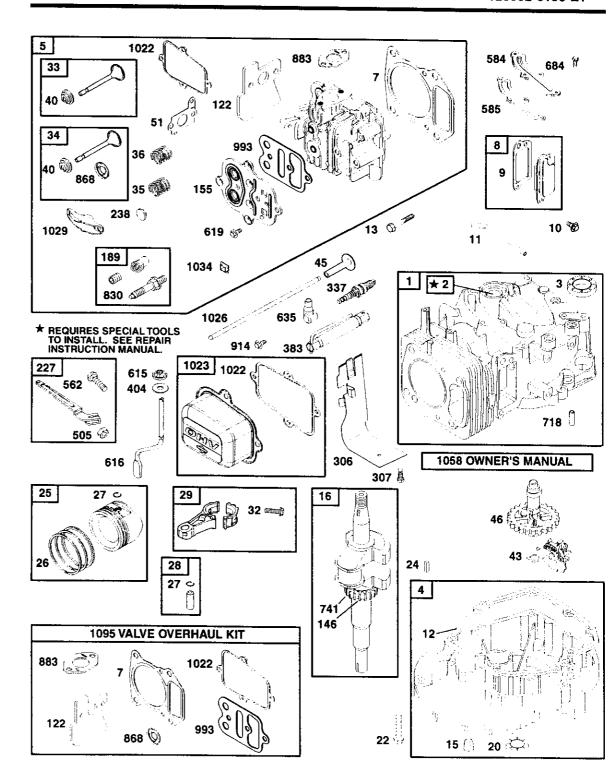
ROTARY LAWN MOWER -- MODEL NO. 917.377880

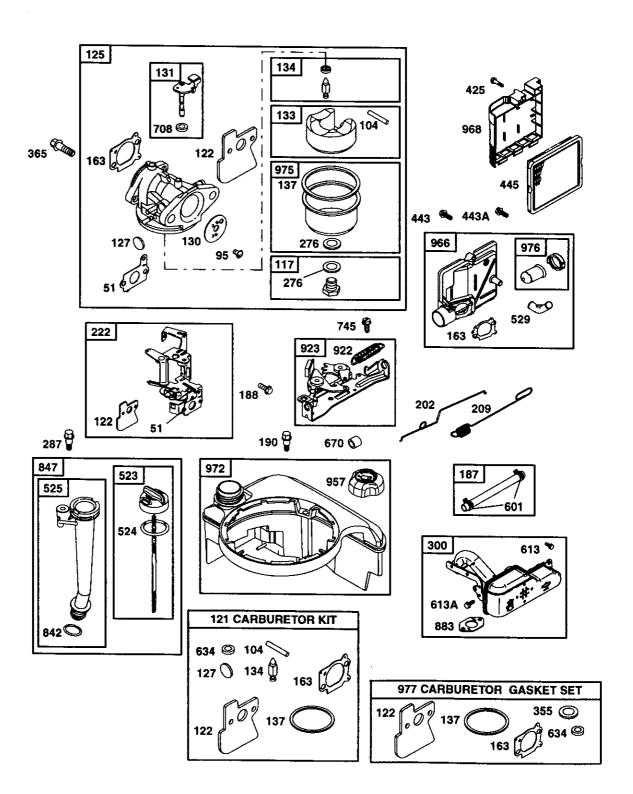
KE No		DESCRIPTION	KEY NO.		DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	167163 161105X479 131036 132001 63601 66426 131959 87692 164265 161551 73990500 51793 133107 850733X004 83816 162085 161548 165261 166907	Handle, Upper Dix Comf. (Includes Grip) Handle, Lower Bail, Cont. Wire Dix Comf. Blk Guide, Rope, Side Nut, Hex Lockwasher 1/4-20 Wire, Tie Bolt, Handle 5/16-18 x 1.75 Knob, Handle Grip, Hdl Foam Smooth Bolt, Sq. Neck Nut, Hex Lockwasher Ins. 5/16-18 UNC Cotter, Hairpin Engine Zone Control Cable Bracket, Upstop Screw, Hex Washer Head Tapping 10-2 Kit, Door Rear Seal, Door Plug, Mulcher	NO. 41 42 43 45 46 48 49 50 51 52 53 54 55 56 57 58 60	85463 144929 63601 166034 166034 166039X008 54583 169980 170868 173041 750097 166383X479 63601 166391X004 57808 166042 166050	DESCRIPTION Danger Decal Screw Nut Rod, Pulley Engage Bushing Retainer Clip Clamp Screw Spacer Wave Washer Belt Cover, Bottom Screw Cable Support Bracket Nut Bracket Assy. Screw V-Groove Pulley Idler Arm Spacer
14 15 16 17 18	850733X004 83816 162085 161548 165261	Bracket, Upstop Screw, Hex Washer Head Tapping 10-2 Kit, Door Rear Seal, Door	56 57 58 59	63601 166391X004 57808 166042	Nut Bracket Assy. Screw V-Groove Pulley Idler Arm Spacer Fiange Nut Locknut Idler Arm Idler Pulley
24 25 26 29 30 31 32 33 34 35	63124 161333 163409 166036X479 851514 159267 851074 850263 851084 169809 170045	Nut, Hex Lock Wshr 5/16-18 Baffle, Side Screw 12 x 5/8 Belt Cover, Top Adapter, Blade w/key Longer Blade, 21" Washer, Hardened Lockwasher, Helical Spring 3/8 Screw, Hex Head 3/8-24 x 1.38 Pulley, Fixed Bearing Support Assy.	66 67 68 69 71 72 73 76 77 78	160829 171962 88349 166028 54583 168246 111190X 83816 87677 161550 88652 161058	Shoulder Bolt Door Assy. Nut Multi Cut Guard Screw Throttle Control Engine Clamp Screw Hi Pro Key Skirt Screw Warning Decal (Not Shown)
37 38 39 40	150406 169294 161358	Bolt, Engine Engine (See Breakdown) Briggs and Stratton 120602-0138-EA Grass Catcher Bag Grass Catcher Frame		173191	Owner's Manual

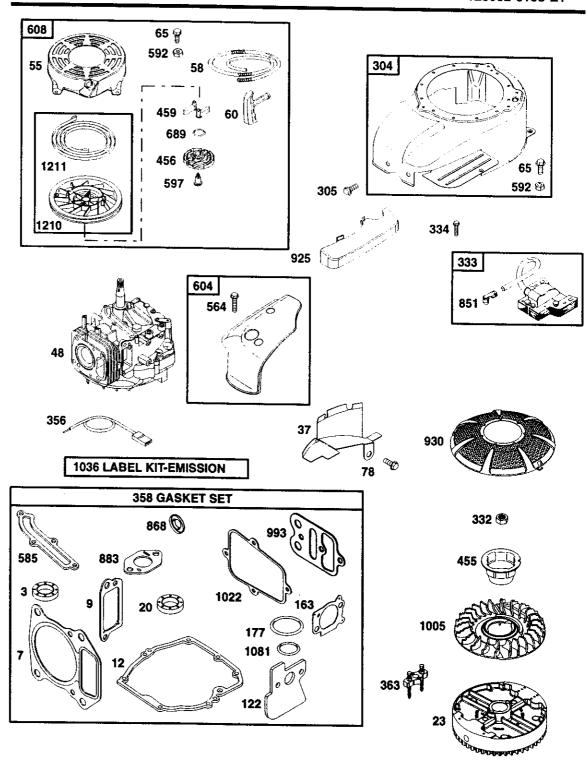


ROTARY LAWN MOWER -- MODEL NO. 917.377880

1 171050 Speed Control 23 161118X004 Retainer Drive Asm. Stmp. 2 167259 Bail Control Drive 24 57808 Screw Hex Head Tapping 1/4-20 of 170011 3 54583 Screw 25 170011 Drive Pawl 4 170050 Drive Cable 26 166450 Pinion, Drive 5 161537 Cover Drive 27 52160 Washer 6 750634 Screw Thdrol 10-25 x .50 28 12000058 E-Ring 7/16	
2 167259 Bail Control Drive 24 57808 Screw Hex Head Tapping 1/4-20 x 3 54583 Screw 25 170011 Drive Pawl 4 170050 Drive Cable 26 166450 Pinion, Drive 5 161537 Cover Drive 27 52160 Washer 6 750634 Screw Thdrol 10-25 x .50 28 12000058 E-Ring 7/16	
3 54583 Screw 25 170011 Drive Pawl 4 170050 Drive Cable 26 166450 Pinion, Drive 5 161537 Cover Drive 27 52160 Washer 6 750634 Screw Thdrol 10-25 x .50 28 12000058 E-Ring 7/16	
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5 161537 Cover Drive 27 52160 Washer 6 750634 Screw Thdrol 10-25 x .50 28 12000058 E-Ring 7/16	
6 750634 Screw Thdrol 10-25 x .50 28 12000058 E-Ring 7/16	
7 166060 V-Belt 29 88080 Cover, Dust Wheel	
8 132010 Nut Lock Flanged 3/8-16 Zinc 30 67725 Washer 1/2 x 1-1/2 x .134	
9 166049 Pulley Driven 31 57143 Wave Washer	
10 166021X004 Belt Keeper Bracket 32 172324 Wheel 9 x 2	
11 17541011 Screw Hex Wash Head 10-24 X .668 33 145212 Nut Hex Flange Lock	
12 166189 Pivot Rod Cover 34 150181 Hubcap, Mag Platinum 9"	
13 166388 Transmission Asm. 35 160785 X004 Shaft Asm. Řear	
14 145354 Pin Spring Thrust 36 160786X004 Shaft Asm. Front	
15 57079 Washer Hardened 37 161463 Retainer Front Shaft	
16 161584X479 Rod Connecting 38 163409 Screw 12 x 5/8	
17 161602 Spring Extension 39 700279 Clip Retainer	
18 160477X004 Spring Selector 40 172323 Wheel 8 x 2	
19 167650 Knob Selector Spring 41 150182 Hubcap, Mag Platinum 8*	
20 12000022 E-Ring 7/8 42 83923 Nut, Hex Flange Lock 3/8-16	
21 163365 Bearing Support 43 19572216 Washer	
22 169911 Bearing Ball 44 144929 Screw 1/4 x 2.12	
45 751152 Locknut	







KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART	
			NO.	NO.	DESCRIPTION
1	692670	Cylinder Assembly	121	692703	 Carburetor Overhaul Kit
2	399269	Bushing/Seal Kit	122		*●◆+ Carburetor Spacer
		(Magneto Side)	125	694202	Carburetor
3	299819	★ Oil Seal (Magneto Side)	127	694468	Welch Plug
4	499619	Engine Sump	130	691203	Throttle Valve
5	692800	Cylinder Head	131	499682	Throttle Shaft
7	273240	*+ Cylinder Head Gasket	133	398187	Carburetor Float
8	495786	Breather Assembly	134	398188	Needle/Seat Kit
9	272481	★ Breather Gasket	137	693981	●◆ Float Bowl Gasket
10 11	691125	Screw (Breather Assembly)	146	94388	Timing Key
12	499675 272198	Breather Tube "	155	691231	Cylinder Head Plate
13	691137	★ Crankcase Gasket	163	692667	♦●◆+ Air Cleaner Gasket
15	691680	Screw (Cylinder Head)	187	298049	FuelLine
16	691457	Oil Drain Plug Crankshaft	188	691147	Screw (Control Bracket)
20	399781		189	694543	Rocker Arm Ball
22	691092	★ Oil Seal (PTO Side)	190	94511	Screw (Fuel Tank)
22A	94612	Screw (Crankcase Cover/Sump) Screw	202	691303	Mechanical Governor Link
•	0.0.2	(Crankcase Cover/Sump)	209	691290	Governor Spring
		(Used in Hole	222 227	692672	Control Bracket
		Nearest Breather)	238	691467	Governor Control Lever
23	692452	Flywheel	276	691300 271716	Valve Cap
24	222698	FlywheelKey	287	94511	●◆ Sealing Washer
25	690021	Piston Assembly (Standard)	300	693982	Screw (Dipstick Tube)
	694167	Piston Assembly (.010 O.S.)	304	499677	Exhaust Muffler
	694168	Piston Assembly (.020 O.S.)	305	691108	Blower Housing
	694169	Piston Assembly (.030 O.S.)	306	691232	Screw (Blower Housing) Cylinder Shield
26	499631	Ring Set (Standard)	307	690345	Screw/Cylinder Shintel
	692785	Ring Set (.010 O.S.)	332	94877	Screw (Cylinder Shield) Nut (Flywheel)
	692786	Ring Set (.020 O.S.)	333	802574	Magneto Armature
	692787	Ring Set (.030 O.S.)	334	94731	Screw (Magneto Armature)
27	263190	Piston Pin Lock	337	499608	Spark Plug
28	499423	Piston Pin	356	692390	Stop Wire
29	499424	Connecting Rod	358	694090	★ Engine Gasket Set
32	94699	Screw (Connecting Rod)	363	19069	Flywheel Puller
33 34	499642	Exhaust Valve	365	691136	Screw (Carburetor)
35	499641 691304	Intake Valve			·
36	691304	Valve Spring (Intake)		RPM Sett	ings: Low Speed: 1900-2100
37	694086	Valve Spring (Exhaust)			High Speed: 3000-3200
40	93312	Flywheel Guard Valve Retainer			
43	493737		*	Included i	n Engine Gasket Set,
45	262679	Governor/Oil Slinger Valve Tappet	_	RefNumb	er358,
46	692453	Camshaft	•	included i	n Carburetor Overhaul Kit,
48	692745	Shortblock		Ref Numb	er 121.
51		●◆+ Intake Gasket	•	Included I	n Carburetor Gasket Set,
55	691421	Rewind Starter Housing		Ref Numb	er9//.
58	280399	Starter Rope (Cut To Length)	+	Ref Numb	n Value Overhaul Kit,
60	281434	Starter Rope Grip		מווושאו ופרי	di 1085.
6 5	94904	Screw (Rewind Starter)	NOTE:	All compo	nent dimensions single to the
78	691108	Screw (Flywheel Guard)	1 inch -	= 25.4 mm	nent dimensions given in U.S. inches
95	94098	Screw (Throttle Valve)			
104	691242	 Float Hinge Pin 			
117	498978	Main Jet (Standard)			
		*			

		-			
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
383	19374	Spark Plug Wrench	851	493880	Cond. Disease in the
404	690272	Washer (Governor Crank)	868	498592	Spark Plug Terminal
425	94872	Screw (Air Cleaner Cover)	883		★+ Valve Seal
443	94118	Screw (Air Cleaner Primer Base)	914	691893	*+ Exhaust Gasket
443A	94873	Screw (Air Cleaner Primer Base)	914	691108	Screw (Rocker Cover)
445	491588	Air Cleaner Cartridge Filter	923	262640 493442	Brake Spring
455	691219	Flywheel Cup	925	690595	Brake
456	281503	Pawl Friction Plate	930	692675	Linkage Cover
459	281505	Ratchet Pawl	957		Rewind Guard
505	231082	Nut (Governor Control Lever)	966	498697 692673	Fuel Tank Cap
523	499621	Dipstick	968	281340	Air Cleaner Primer Base
524	280966	★ Dipstick Tube Seal	972	499618	Air Cleaner Cover
525	495265	Dipstick Tube	975	493640	FuelTank
529	281299	Grommet	976		FloatBowl
562	94852	Bolt (Governor Control Lever)	977	694395 692704	Carburetor Primer
564	693808	Screw (Control Cover)	993	694088	◆ Carburetor Gasket Set
584	692342	Breather Passage Cover	1005	691346	★+ Cylinder Head Plate Gasket
585	272238	★ Breather Passage Gasket	1022	691890	Flywheel Fan
592	94908	Nut (Rewind Starter)	1023	499624	*+ Rocker Cover Gasket
597	94943	Screw (Pawl Friction Plate)	1026	498597	Rocker Arm Cover
601	93053	Hose Clamp	1029	691230	Push Rod
604	692669	Control Cover	1034	691343	Rocker Arm
608	497680	Rewind Starter	1036	694507	Push Rod Guide
613	691108	Screw (Muffler)	1058	274264	Emissions Label
613A	691140	Screw (Muffler)(Muffler Guard)	1000	2/4204	Owner's Manual
615	690340	Governor Shaft Retainer	1095	694091	(Emission Engines) + Valve Gasket Set
616	691306	Governor Crank	1210	498144	
619	691108	Screw (Cylinder Head Plate)	1211	498144	Pulley/Spring
635	66538	Spark Plug Boot		121602-0	Pulley/Spring
670	280512	Fuel Tank Spacer		12 1002-0	
684	690345	Screw (Breather Passage Cover)		DD110	Replacement Engine
689	263073	Friction Spring		RPM Sett	ings: Low Speed: 1900-2100
708	691321	●◆ Dust Seal			High Speed: 3000-3200
718	230192	Locating Pin	.4.	10000	
741	262598	Timing Gear	*	Included I	n Engine Gasket Set,
745	94512	Screw (Brake)	_	Ref Numb	
830	694544	Stud (Rocker Arm)	•	Included II	n Carburetor Overhaul Kit,
842	280393	★ Dipstick/Tube Seal		Ref Numb	
847	498715	Dipstick/Tube Assembly	•	included i	n Carburetor Gasket Set,
		- Pagaia (add Addonibly		Ref Numb	ere//.
			+	Dotkinged II	n Value Overhaul Kit,
				Ref Numb	er 1095.

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

SERVICE NOTES

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