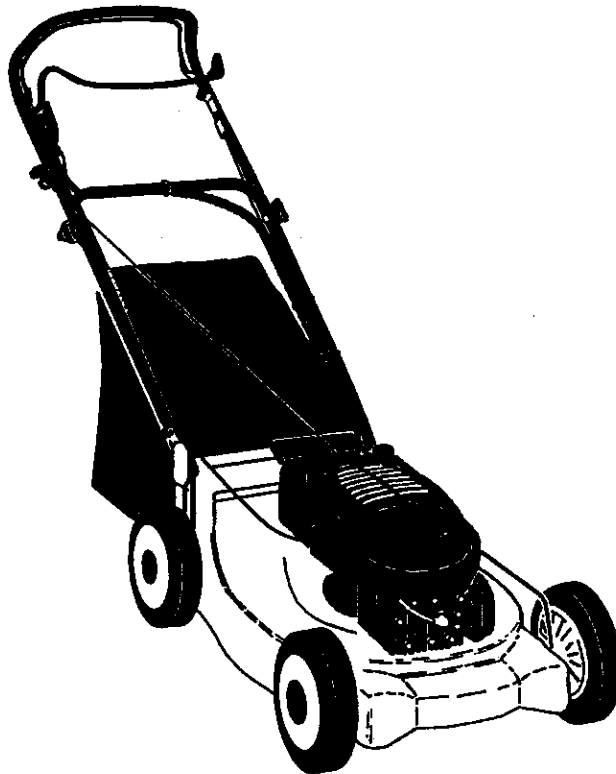


Owner's Manual

CRAFTSMAN®
6.75 HORSEPOWER
21" REAR DISCHARGE
POWER PROPELLED
ELECTRIC START
ROTARY LAWN MOWER

Model No.
917.377631

- **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

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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

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.

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

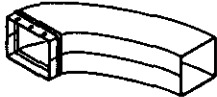


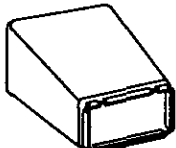

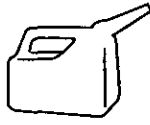
WARNING

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






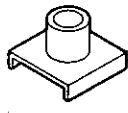


ACCESSORIES

These accessories were available when this lawn mower was produced. They are 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

 <p>CLIPPING DEFLECTOR FOR REAR DISCHARGE LAWN MOWERS</p>	 <p>MULCHER KITS</p>	 <p>STABILIZER</p>
 <p>GRASS CATCHERS FOR REAR DISCHARGE LAWN MOWERS</p>	 <p>GRASS CATCHERS FOR SIDE DISCHARGE LAWN MOWERS</p>	 <p>GAS CANS</p>

LAWN MOWER MAINTENANCE

 <p>MUFFLERS</p>		 <p>AIR FILTERS</p>		 <p>SPARK PLUGS</p>
 <p>BELTS</p>	 <p>BLADES</p>	 <p>BLADE ADAPTERS</p>	 <p>WHEELS</p>	 <p>ENGINE OIL</p>

ASSEMBLY

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

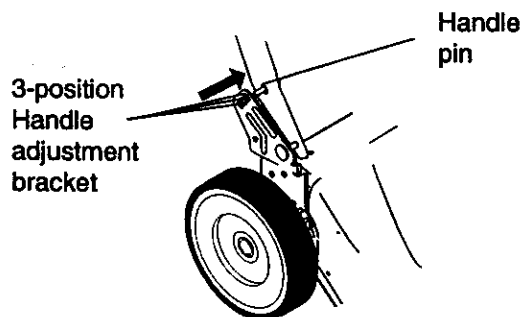
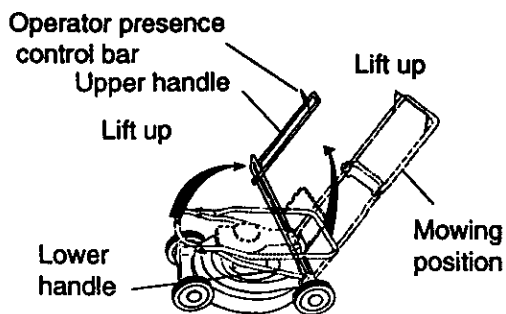
- presence control bar to upper handle.
- Roll lawn mower out of carton and check carton thoroughly for additional loose parts.

HOW TO SET UP YOUR LAWN MOWER

TO UNFOLD HANDLE

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

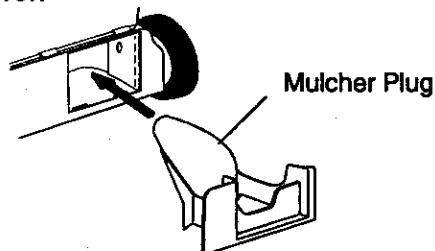
- Raise lower handle section to operating position and squeeze the bottom ends of lower handle towards each other until the pin in handle can be inserted into one of the three height adjustment holes.
- Remove protective padding, raise upper handle section into place on lower handle and tighten both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

- 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.



TO PREPARE BATTERY

NOTE: Your battery must be charged before you can start your lawn mower.

- Disconnect engine battery connector (male) from battery connector (female)
- Connect battery charger connector (male) to battery connector (female).
- Plug battery charger into 110 volt A.C. outlet.
- Leave battery charger connected for 24 hours before starting your engine for the first time.
- After charging, connect engine connector (male) to battery connector (female).

Your engine has an integral alternator for partial charging. Connect your battery charger to charge battery as required.

IMPORTANT: The engine alternator will not charge a discharged battery.

At the end of the mowing season the battery should be charged for 48 hours to protect the battery during winter storage.

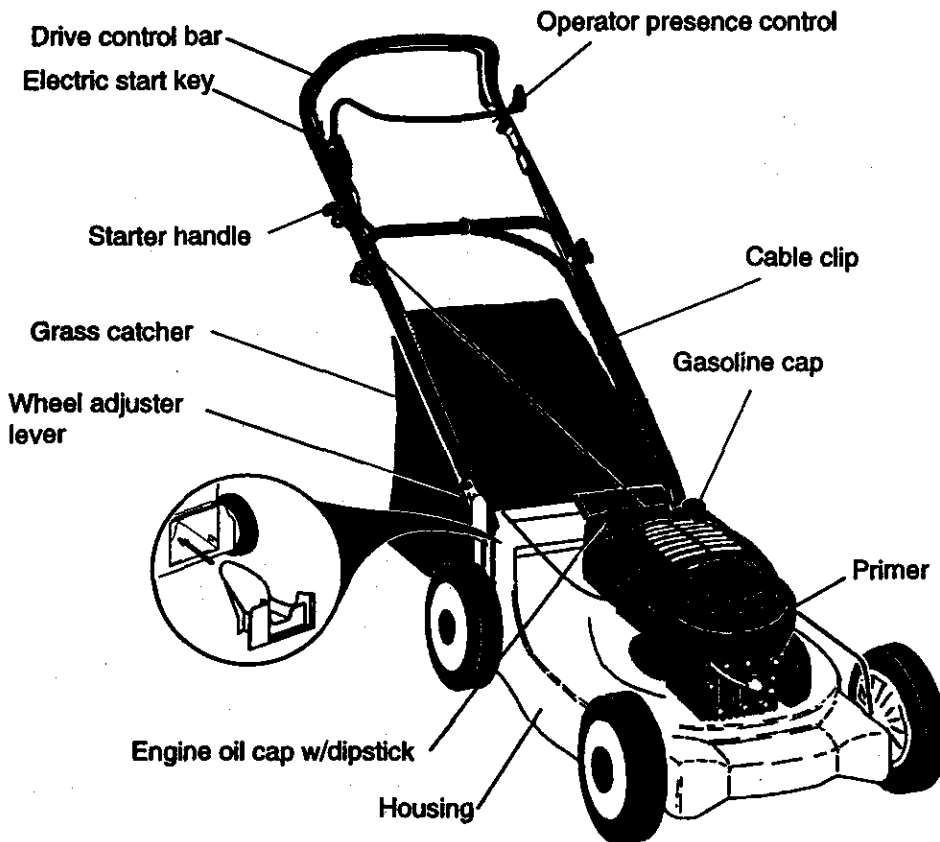
CAUTION: Always disconnect the engine connector (male) from the battery connector (female) to prevent accidental starting when transporting or storing your lawn mower after the season.

OPERATION

KNOW YOUR LAWN MOWER

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR LAWN MOWER. Compare the illustrations with your lawn mower to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

These symbols may appear on your lawn mower or in literature supplied with the product. Learn and understand their meaning.



MEETS CPSC SAFETY REQUIREMENTS

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

Operator presence control - 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 forward motion of lawn mower.

Mulcher plug - Located at the rear discharge opening must be removed when converting to bagging operation.
Electric start key - used for starting the engine.

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 the spectacles or standard safety glasses.

HOW TO USE YOUR LAWN MOWER ENGINE SPEED

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

ENGINE ZONE CONTROL

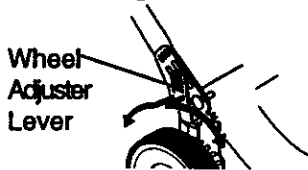
CAUTION: Federal regulations require an engine control to be installed on this lawn mower in order to minimize the risk of blade contact injury. Do not under any circumstances attempt to defeat the function of the operator control. The blade turns when the engine is running.

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

TO ADJUST CUTTING HEIGHT

- 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

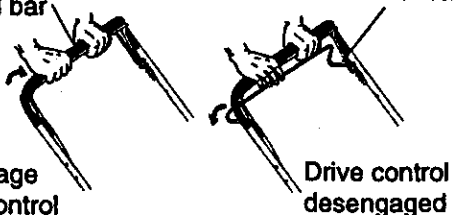
TO OPERATE DRIVE SYSTEM

- To start forward motion, lift drive control bar up to handle.
- To stop forward motion, release drive control bar.

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

Operator presence control bar

Drive control bar



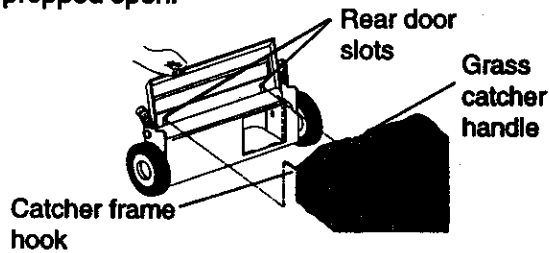
To engage drive control

Drive control disengaged

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.

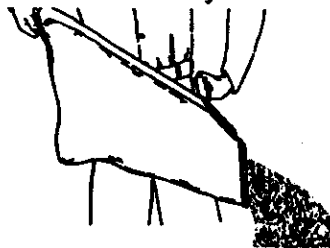
CAUTION: Do not run your lawn mower without clipping deflector or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.



TO EMPTY GRASS CATCHER

- 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 w/dipstick and fill to the full line on the dipstick.
- Use 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.

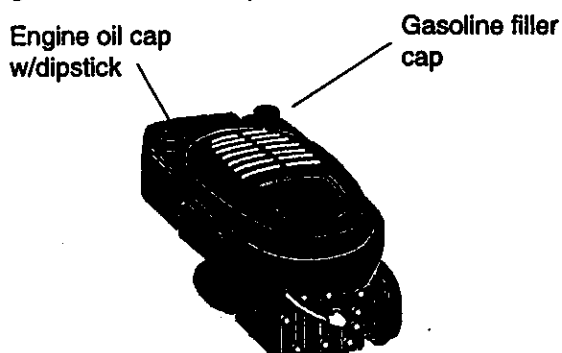
GAS

- 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.

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F(0°C), use fresh, clean winter grade gasoline to help insure good cold weather starting.

WARNING: 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.

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.



TO START ENGINE

- To start a cold engine, push primer five (5) times before trying to start. Use a firm push. This step is not usually necessary when starting an engine which has already run for a few minutes.
- Hold operator presence control bar down to the handle.
- Turn electric start key clockwise to crank engine.

IMPORTANT: Do not crank engine more than five continuous seconds between each time you try to start. Wait 5 to 10 seconds between each attempt.

- To start engine using the auxiliary starter handle, follow the steps above. Exchange the use of the start key for starter handle. 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

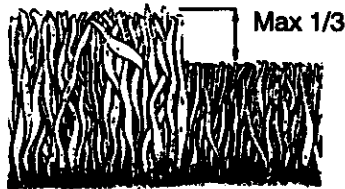
- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings.
- For extremely heavy cutting, reduce the width of cut by overlapping previously cut path and mow slowly.
- When using a rear discharge lawn mower in moist, heavy grass, clumps of cut grass may not enter the grass catcher. Reduce ground speed (pushing speed) and/or run the lawn mower over the area a second time.
- If a trail of clippings is left on the right side of a rear discharge mower, mow in a clockwise direction with a small overlap to collect the clippings on the next pass.
- Pores in cloth grass catchers can become filled with dirt and dust with use and catchers will collect less grass. To prevent this, regularly hose catcher off with water and let dry before using.
- Keep top of engine around starter clear and clean of grass clippings and chaff. This will help engine air flow and extend engine life.

MULCHING MOWING TIPS

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

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.

- For best results, adjust the lawn mower cutting height so that the lawn mower cuts off only the top one-third of the grass blades. If the lawn is overgrown it will be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of mulched grass. For extremely heavy mulching, reduce your width of cut by overlapping previously cut path and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.



MAINTENANCE

MAINTENANCE SCHEDULE		SERVICE DATES													
		BEFORE EACH USE	AFTER EACH USE	EVERY 10 HOURS	EVERY 25 HOURS OR EVERY SEASON	BEFORE STORAGE									
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					✓ ₃									
	Lubrication Chart					✓		✓							
	Clean Battery/Recharge (Electric Start Mowers)					✓		✓ ₄							
ENGINE	Check Engine Oil Level	✓													
	Change Engine Oil					✓ _{1,2}									
	Clean Air Filter					✓									
	Inspect Muffler					✓									
	Clean or Replace Spark Plug					✓									
	Replace Air Filter Paper Cartridge					✓ ₂									

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

GENERAL RECOMMENDATIONS

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

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

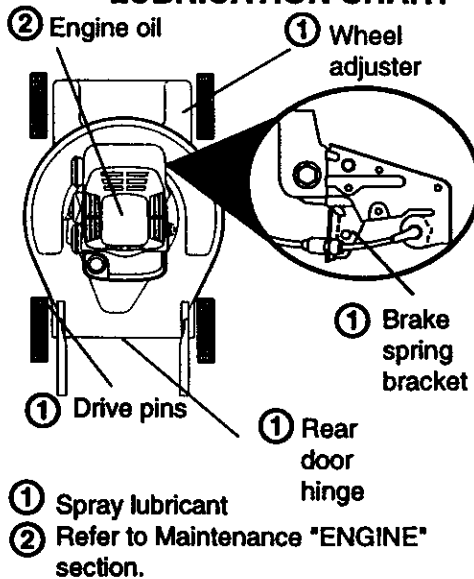
BEFORE EACH USE

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

LUBRICATION

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

LUBRICATION CHART



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

PRODUCT SPECIFICATIONS

MODEL NUMBER	917.377631
SERIAL NUMBER	
DATE OF PURCHASE	
HORSEPOWER:	6.75
DISPLACEMENT:	12.56 CU. IN.
GASOLINE CAPACITY/ TYPE:	1.25 QUARTS UNLEADED REGULAR
OIL TYPE (API-SF/SG/SH):	SAE 30 (ABOVE 32°F) SAE 5W-30 (BELOW 32°F)
OIL CAPACITY:	20 OZS.
SPARK PLUG(GAP: .030")	CHAMPION RN4C
VALVE CLEARANCE:	INTAKE: .004 - .008 EXHAUST: .004 - .008
SOLID STATE IGNITION	
AIR GAP:	.0125 IN.
BLADE BOLT TORQUE:	35-40 FT. LBS.
<ul style="list-style-type: none"> The model and serial numbers will be found on a decal attached to the rear of the lawn mower housing. Record both serial number and date of purchase in space provided above. 	

LAWN MOWER

Always observe safety rules when performing any maintenance.

TIRES

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

BLADE CARE

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

TO REMOVE BLADE

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

- 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.

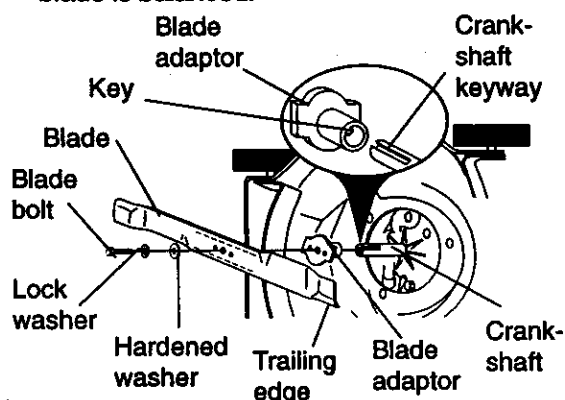
IMPORTANT: Blade bolt is grade 8 heat treated.

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

TO SHARPEN BLADE

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.

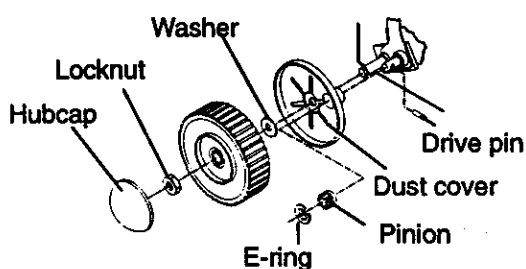
DRIVE WHEELS

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.

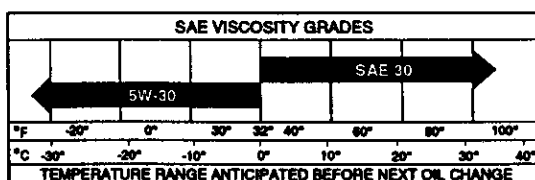
- The pinion gear must be installed with the left gear on the left side and with the right gear on the right side, from an operator's view.
- The pinion gear is stamped with an "L" (left) or "R" (right) on the inside. If installed incorrectly, the drive system will not work.
- Place wheels back on adjuster axles.
- Replace locknuts and hubcaps.

NOTE: Pinions and drive pawls should be cleaned and lubricated with grease approximately every 25 hours or once a year.



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.



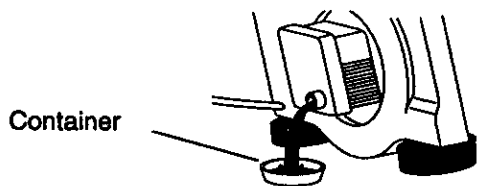
NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

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.

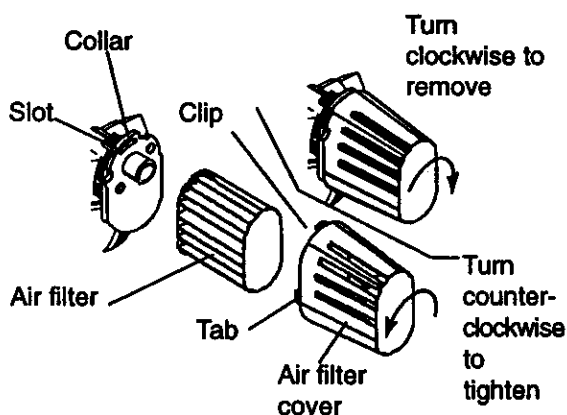


AIR FILTER

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. Do not wash air filter.

TO CHANGE AIR FILTER

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



MUFFLER

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 underside of mower housing after each use.

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

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

SERVICE AND ADJUSTMENTS

CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

- Release control bar.
- 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.

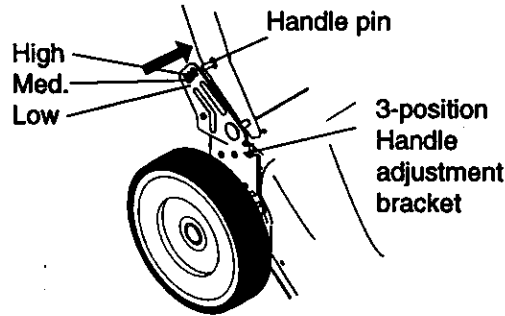
REAR DEFLECTOR

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.



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 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.

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

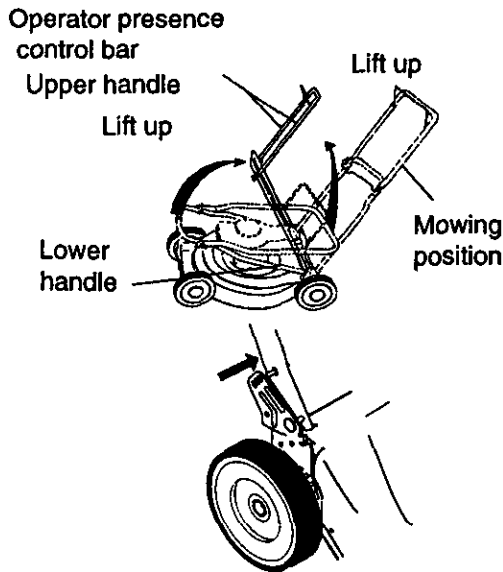
When lawn mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire lawn mower (See "CLEANING" in the Maintenance section of this manual).
- Lubricate as shown in the Customer 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

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.

- 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.

BATTERY

Disconnect the battery from the engine connector and charge battery 48 hours.

OTHER

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

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

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

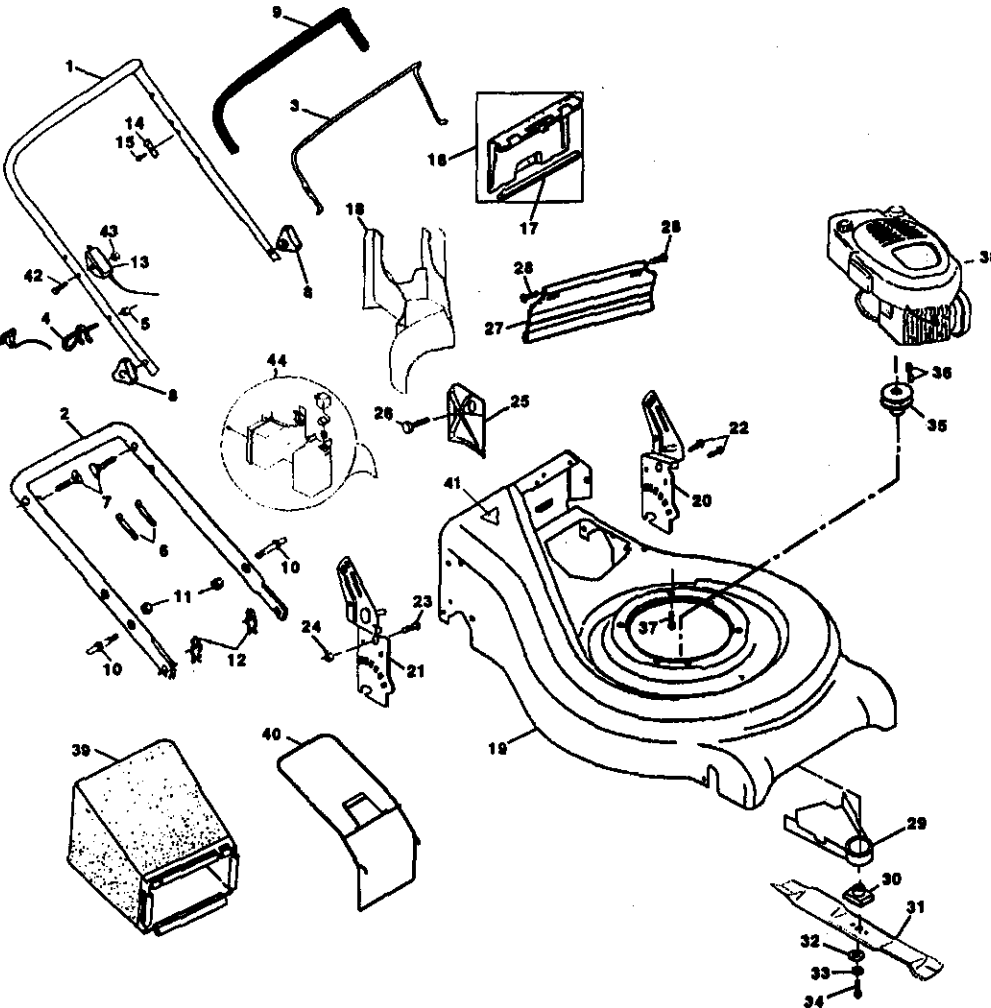
TROUBLE SHOOTING

PROBLEM	CAUSE	CORRECTION
Will not start	<ul style="list-style-type: none"> • 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 • Weak battery • Disconnected battery connector. 	<ul style="list-style-type: none"> • 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. • Replace control bar. • Charge battery. • Connect battery to engine.
Loss of power	<ul style="list-style-type: none"> • Rear of lawn mower housing/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. 	<ul style="list-style-type: none"> • Set in "Higher Cut" position. • Set in "Higher Cut" position. • Clean/replace air filter. • Clean underside of mower housing. • Check oil level. • Cut at slower walking speed.
Poor cut - uneven	<ul style="list-style-type: none"> • Worn, bent or loose blade. • Wheel heights uneven. • Buildup of grass, leaves, and trash under mower. 	<ul style="list-style-type: none"> • Replace blade. Tighten blade bolt. • Set all wheels at same height. • Clean underside of mower housing.
Excessive vibration	<ul style="list-style-type: none"> • Worn, bent or loose blade. • Bent engine crankshaft. 	<ul style="list-style-type: none"> • Replace blade. Tighten blade bolt. • Contact an authorized service center/department.
Starter rope hard to pull	<ul style="list-style-type: none"> • Engine flywheel brake is on when control bar is released. • Bent engine crankshaft • Blade adapter broken. • Blade dragging in grass. 	<ul style="list-style-type: none"> • 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.

TROUBLE SHOOTING

PROBLEM	CAUSE	CORRECTION
Loss of drive (Self-Propelled Mowing)	<ul style="list-style-type: none"> • Drive wheels not turning with drive control engaged. • Belt not driving. 	<ul style="list-style-type: none"> • Adjust or replace drive control cable, if broken. • Put belt on pulleys or replace belts if broken.
Grass catcher not filling (if so equipped)	<ul style="list-style-type: none"> • Cutting height too low. • Lift on blade worn off. • Catcher not venting air. 	<ul style="list-style-type: none"> • Raise cutting height. • Replace blade. • Clean grass catcher.
Hard to push	<ul style="list-style-type: none"> • Grass is too high or wheel height is too low. • Rear of lawn mower housing/blade dragging in grass. • Grass catcher too full. • Handle height position not right for you. 	<ul style="list-style-type: none"> • Raise cutting height. • Raise rear of lawn mower housing one (1) setting higher. • Empty grass catcher. • Adjust handle height to suit.

ROTARY LAWN MOWER -- MODEL NO. 917.377631



REPAIR PARTS

ROTARY LAWN MOWER - - MODEL NO. 917.377631

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	164286	Handle, Upper Dlx Comf.	23	163183	Bolt, Hex Head 5/16-18 x 5/8
2	161105X479	Handle, Lower	24	63124	Nut, Hex Lock Wshr 5/16-18
3	131036	Bail, Cont. Wire Dlx Comf. Blk	25	161333	Baffle, Side
4	132001	Guide, Rope, Side	26	163409	Screw 12 x 5/8
5	63601	Nut, Hex Lockwasher 1/4-20	27	161550	Skirt
6	66426	Wire, Tie	28	88652	Screw, Hinge 1/4-20 x 1.25
7	131959	Bolt, Handle 5/16-18 x 1.75	29	134612	Shield, Debris Modified
8	87692	Knob, Handle	30	851514	Adapter, Blade w/key Longer
9	164265	Grip, Hdl Foam Smooth	31	159267	Blade, 21"
10	161551	Bolt, Sq. Neck	32	851074	Washer, Hardened
11	73990500	Nut, Hex Lockwasher Ins. 5/16-18 UNC	33	850263	Lockwasher, Helical Spring 3/8
12	51793	Cotter, Hairpin	34	851084	Screw, Hex Head 3/8-24 x 1.38
13	162208	Electric start control	35	85543	Pulley, Engine
14	850733X004	Bracket, Upstop	36	87677	Key, HI Pro
15	83816	Screw, Hex Washer Head Tapping 10-2	37	150406	Bolt, Engine
16	162085	Kit, Door Rear	38	-----	Engine (See Breakdown) 143.986718
17	161548	Seal, Door	39	161768	Grass Catcher Bag
18	165261	Plug, Mulcher	40	161358	Grass Catcher Frame
19	162098	Kit, Housing	41	85463	Danger Decal
20	161568X479	Handle, Bracket Asm. Left	42	144929	Screw
21	161569X479	Handle, Bracket Asm. Right	43	751152	Nut
22	150078	Screw, Hex Wshd	44	-----	Battery (See Battery Repair Parts)
			--	161058	Warning Decal (Not Shown)
			--	165683	Owner's Manual

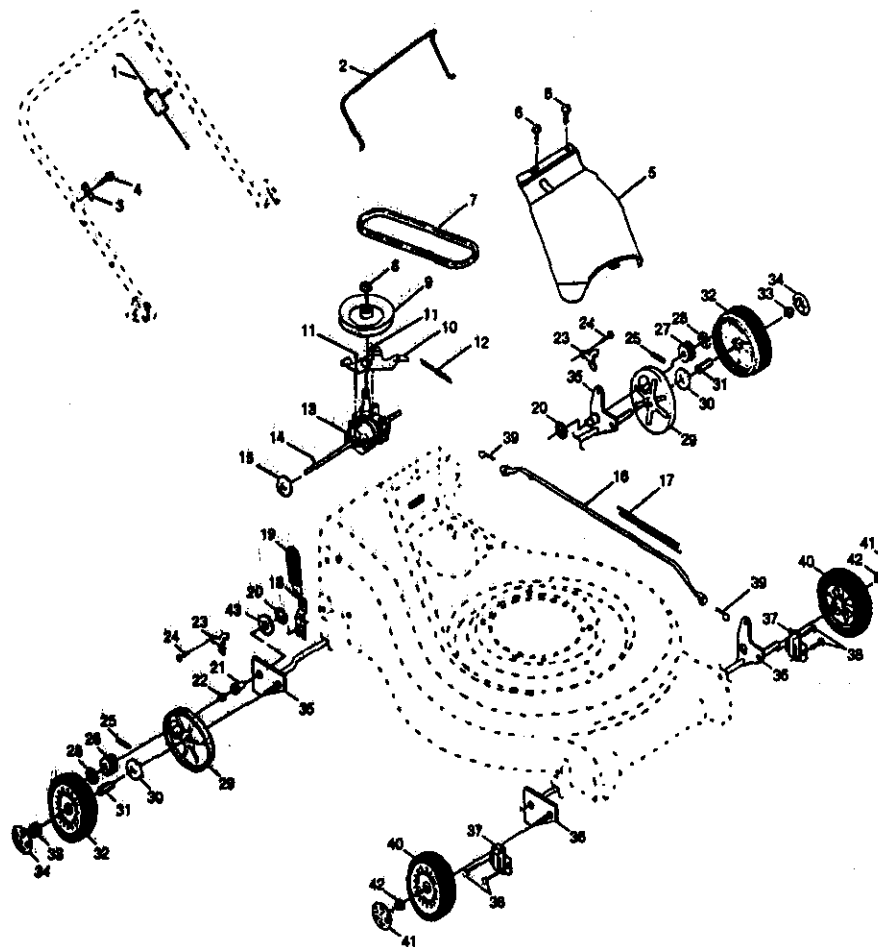
35

Available accessories not included with lawn mower:

71	33623	Gas Can (2.5 gal.)
71	33500	Fuel Stabilizer
71	33000	SAE 30W Oil (20 oz.)
71	33303	Chute Deflector

REPAIR PARTS

ROTARY LAWN MOWER -- MODEL NO. 917.377631

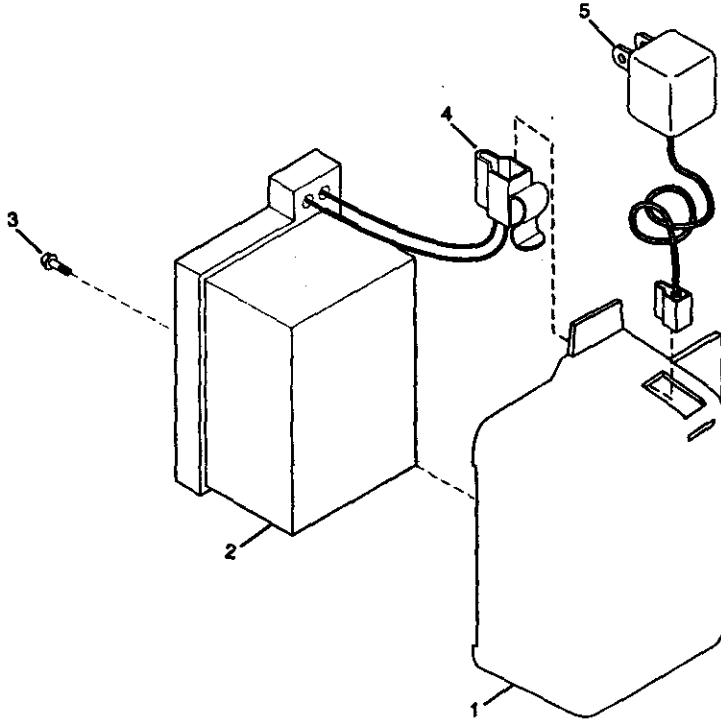


ROTARY LAWN MOWER - - MODEL NO. 917.377631

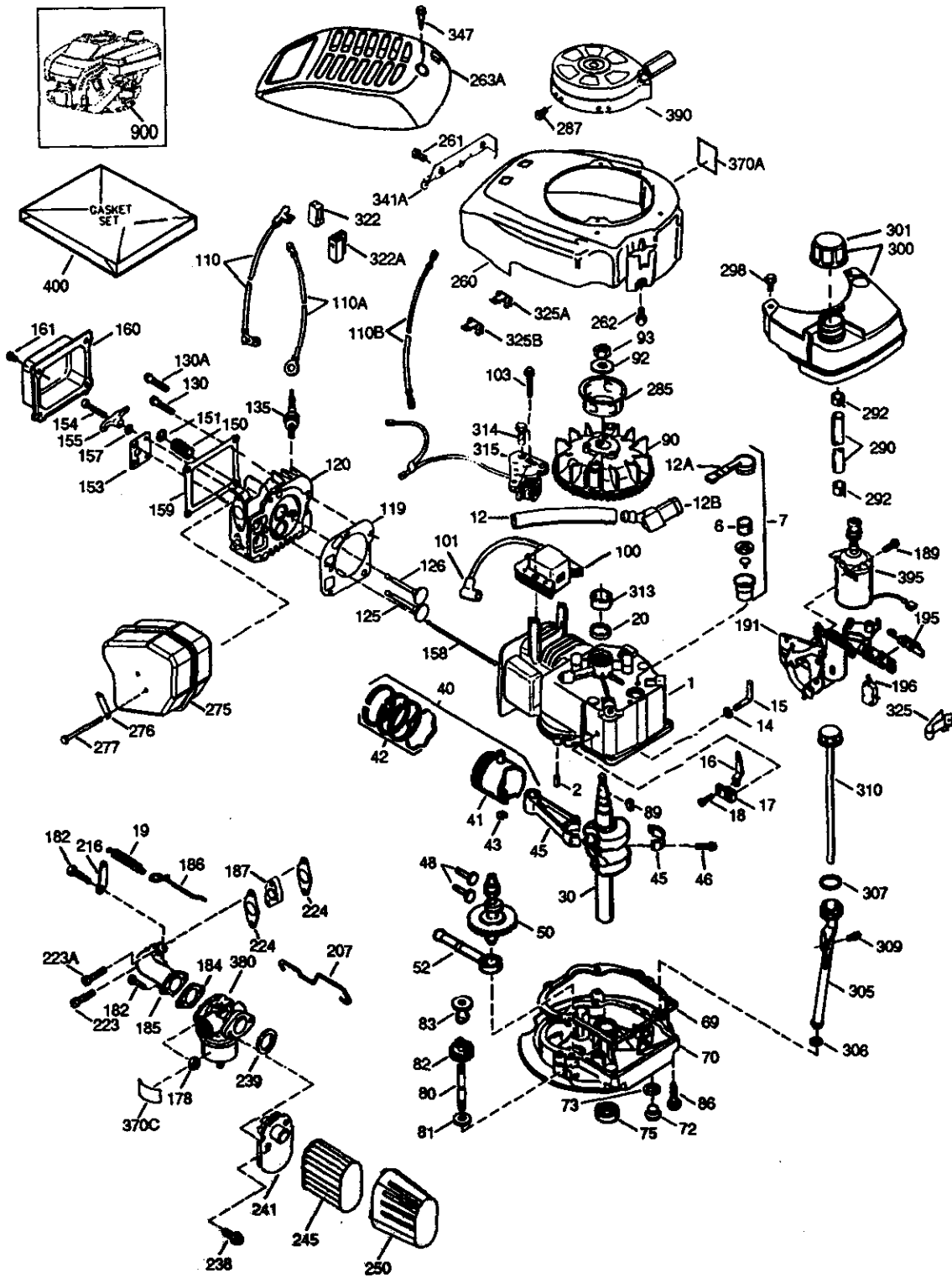
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	161587	Cable Drive	23	161118X004	Retainer Drive Asm. Stmp.
2	161473	Bail Control Drive	24	57808	Screw Hex Head Tapping 1/4-20 x .75
3	161478X004	Bracket, Downstop	25	164795	Drive Pawl
4	83816	Screw Hex Wash Head Tapping 10-2	26	165096	Pinion, Drive RH
5	161552	Cover Drive	27	165097	Pinion, Drive LH
6	750634	Screw Thdrol 10-25 x .50	28	12000058	E-Ring 7/16
7	160816	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	163939	Pulley Driven	31	88446	Bushing
10	160813X004	Belt Keeper	32	150342	Wheel 9 x 2
11	17541011	Screw Hex Wash Head 10-24 X .668	33	145212	Nut Hex Flange Lock
12	75192	Spring	34	150181	Hubcap, Mag Platinum 9"
13	161581	Transmission Asm.	35	160785 X004	Shaft Asm. Rear
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	150339	Wheel 8 x 2
19	161546	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	88060	Bearing Ball			

REPAIR PARTS

ROTARY LAWN MOWER - - MODEL NO. 917.377631 BATTERY



KEY NO.	PART NO.	DESCRIPTION
1	161334	Battery Box
2	750909	Battery
3	17411312	Hex Washer Head Screw 13x.750
4	86353	Connector Mounting Clip
5	111549X	Battery Charger



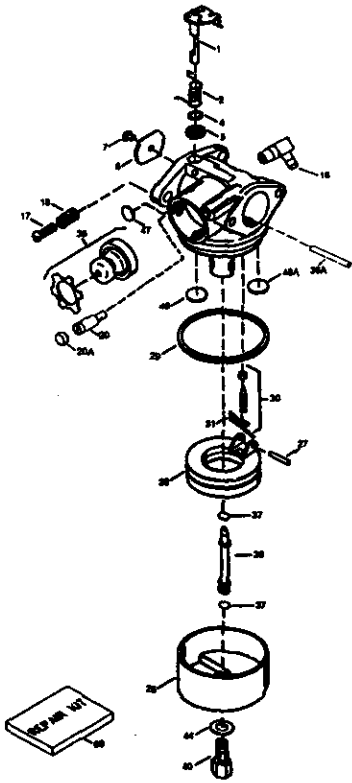
CRAFTSMAN 4-CYCLE ENGINE

MODEL NUMBER 143.986718

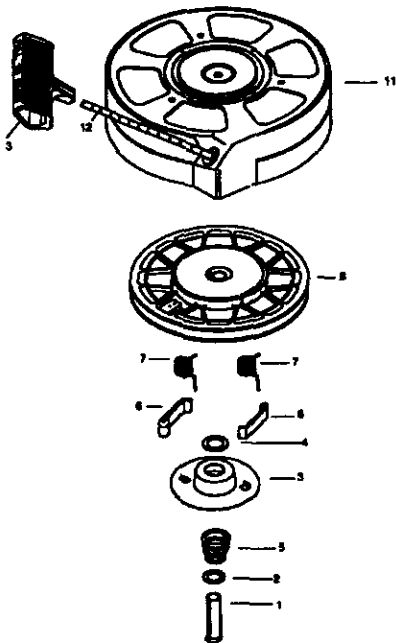
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	36835A	Cylinder (Incl. 2 & 20)	155	35624A	Rocker Arm
2	26727	Dowel Pin	157	650914	Lock Nut
6	33734	Breather Element	158	36629	Push Rod
7	36557	Breather Ass'y. (Incl. 6 & 12A)	159	35626	* Rocker Arm Cover Gasket
12	32447	Breather Tube	160	35718	Rocker Arm Cover
12A	36558	Breather Cover & Tube (Incl. 12B)	161	30063	Screw, Torx T-30, 1/4-20 x 1/2"
			178	29752	Nut & Lock Washer, 1/4-28
12B	36694	Breather Tube Elbow	182	30088A	Screw, 1/4-28 x 1"
14	28277	Washer	184	26756	* Carburetor Gasket
15	30589	Governor Rod (Incl. 14)	185	36579	Intake Pipe
16	34839A	Governor Lever	186	32653	Governor Link
17	31335	Governor Lever Clamp	187	36580	Spacer
18	651018	Screw, Torx T-15, 8-32 x 19/64"	189	650831	Screw, 1/4-20 x 1/2"
19	36281	Extension Spring	191	36559	S.E. Brake Ass'y. (Incl. 195)
20	32600	Oil Seal	195	610973	Terminal
30	35801	Crankshaft	196	35035	Power Restart Switch
40	35544A	Piston, Pin & Ring Set (Std.)	207	34336	Throttle Link
	35545A	Piston, Pin & Ring Set (.010" OS)	216	33086	R.P.M. Adjusting Lever
	35546	Piston, Pin & Ring Set (.020" OS)	223	651044	Screw, 1/4-20 x 2-25/32"
41	35541	Piston & Pin Ass'y. (Std.)	223A	651043	Screw, 1/4-20 x 1-31/64"
	35542	Piston & Pin Ass'y. (.010" OS) (Incl. 43)	224	36581	* Intake Pipe Gasket
	35543	Piston & Pin Ass'y. (.020" OS) (Incl. 43)	238	650932	Screw, 10-32 x 49/64"
			239	34338	* Air Cleaner Gasket
42	35547A	Ring Set (Std.)	241	36919	Air Cleaner Collar
	35548A	Ring Set (.010" OS)	245	36905	Air Cleaner Filter
	35549	Ring Set (.020" OS)	250	36920	Air Cleaner Cover
43	20381	Piston Pin Retaining Ring	260	37180	Blower Housing
45	32875A	Connecting Rod Ass'y. (Incl. 46)	261	30063	Screw, Torx T-30, 1/4-20 x 1/2"
46	32610A	Connecting Rod Bolt	262	650831	Screw, 1/4-20 x 1/2"
48	35616	Valve Lifter	263A	37184	Starter Grill
50	37285	Camshaft (MCR)	275	36950A	Muffler (Incl. 276 & 277)
52	29914	Oil Pump Ass'y.	276	36949	Locking Plate
69	35261	* Mounting Flange Gasket	277	651039	Screw, 1/4-20 x 2-47/64"
70	34311E	Mounting Flange (Incl. 72 thru 83,306)	285	35000A	Starter Cup
			287	650926	Screw, 8-32 x 21/64"
			290	29774	Fuel Line
72	30572	Oil Drain Plug (Incl. 73)	292	26460	Fuel Line Clamp
73	28833	Drain Plug Gasket	298	28763	Screw, 10-32 x 35/64"
75	27897	Oil Seal	300	36916	Fuel Tank (Incl. 292 & 301)
80	30574A	Governor Shaft	301	36246	Fuel Cap
81	30590A	Washer	305	35647	Oil Fill Tube
82	30591	Governor Gear Ass'y. (Incl. 81)	306	36996	* "O"-Ring
83	30588A	Governor Spool	307	35499	"O"-Ring
86	650488	Screw, 1/4-20 x 1-1/4"	309	650562	Screw, 10-32 x 1/2"
89	611004	Flywheel Key	310	35648	Dipstick
90	611044	Flywheel	313	34080	Spacer
92	650815	Belleville Washer	314	650767	Screw, 8-32 x 27/64"
93	650816	Flywheel Nut	315	36952	Alternator Coil
100	34443B	Solid State Ignition	322	35013	Connector Body
101	610118	Spark Plug Cover	322A	610885	Connector Body
103	651007	Screw, Torx T-15, 10-24 x 15/16"	325	35249	Spring Clip
110	37047	Ground Wire	325A	37152	Spring Clip
110A	36953	Ground Wire	341A	36578	Blower Housing Support Bracket
110B	36954	D.C. Starter Wire	347	651038	Screw, 10-32 x 27/32"
119	36738	* Cylinder Head Gasket	370A	36261	Lubrication Decal
120	36721	Cylinder Head	370C	37199	Primer Decal
125	36471	Exhaust Valve (Std.) (Incl. 151)	380	640195	Carburetor (Incl. 184)
125	36472	Exhaust Valve (1/32" OS) (Incl. 151)	390	590739	Rewind Starter
			395	35709	Electric Starter Motor (12 Volt)
126	29314C	Intake Valve (Std.) (Incl. 151)	400	36806B	Gasket Set (Incl. Items Marked *)
126	29315C	Intake Valve (1/32" OS) (Incl. 151)	900	---	Replacement Engine NONE
			900	---	Replacement S/B 750834, order from 71-999
130	650912	Screw, 5/16-18 x 1-1/2"			RPM High 3000 to 3300
130A	650999	Screw, 5/16-18 x 2-41/64"			
135	34645	Resistor Spark Plug (RN4C)			
150	31672	Valve Spring			
151	31673	Valve Spring Cap			
153	36649	Push Rod Guide			
154	650913	Rocker Arm Stud			

NOTE This engine could have been built with 590702 starter).

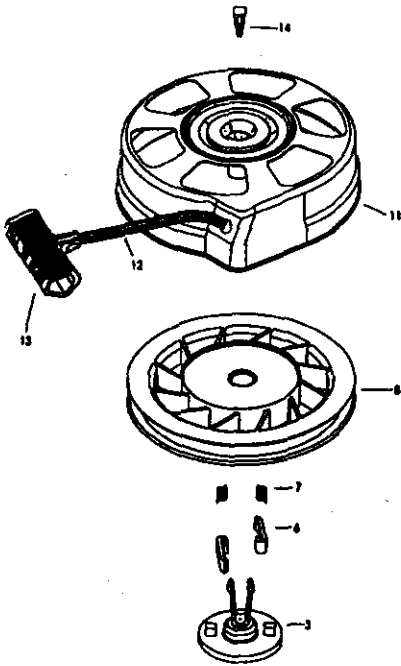
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm



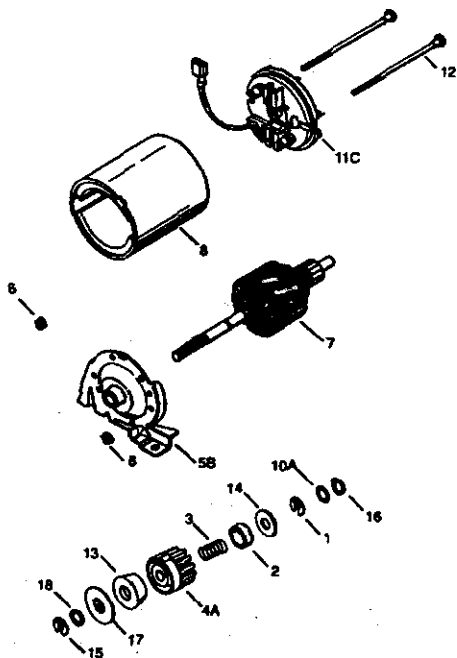
KEY NO.	PART NO.	DESCRIPTION
---	640195	Carburetor (Incl. 184 of Engine Parts List)
1	631615	Throttle Shaft & Lever Assembly
2	631767	Throttle Return Spring
4	631184	* Dust Seal Washer
5	631183	* Dust Seal (Throttle)
6	640070	Throttle Shutter
7	650506	* Shutter Screw
16	631807	Fuel Fitting
17	651025	Throttle Crack Screw/Idle Speed Screw
18	630766	Tension Spring
20	640027	Idle Restrictor Screw
20A	640200	Idle Restrictor Screw Cap
25	631867	Float Bowl
27	631024	* Float Shaft
28	632019	Float
29	631028	* Float Bowl "O" Ring
30	631021	* Inlet Needle, Seat, & Clip (Incl. 31)
31	631022	Spring Clip
35	36045A	Primer Bulb/Retainer Ring
36	640080	Main Nozzle Tube
36A	632766	Carburetor Tube
37	632547	* "O" Ring, Main Nozzle Tube
40	632746	High Speed Bowl Nut
44	27110A	Bowl Nut Washer
47	630748	* Welch Plug, Idle Mixture Well
48	631027	* Welch Plug, Atmospheric Vent
48A	631027	* Welch Plug
60	632760	Repair kit (Incl. Items Marked *)



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



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



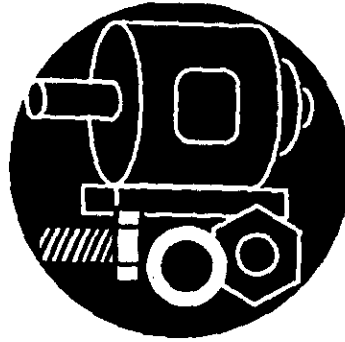
KEY NO.	PART NO.	DESCRIPTION
—	35709	Electric Starter (12 Volt)
1	34955	Retainer Ring
2	34950	Spring Retainer
3	34954	Spring
4A	34949A	Gear
5B	34953	Drive End Cap Ass'y.
6	33450	Lock Nut
7	34944	Armature
8	34945	Housing Ass'y.
10A	590500	Thrust Washer
11C	35714	Commutator End Cap Ass'y. (Incl. brushes)
12	34947	Bolt, 10-32 x 3-3/16"
13	34946	Pinion Driver
14	34951	Cup Washer
15	34952	Retainer Ring
16	34948	Washer
17	34953	Drive Nut
18	590608	Washer

For the repair or replacement parts you need
delivered directly to your home
Call 7 am - 7 pm, 7 days a week

1-800-366-PART

(1-800-366-7278)

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



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

1-800-4-REPAIR

(1-800-473-7274)

Para pedir servicio de reparación a
domicilio - 1-800-676-5811



For the location of a Sears Parts and
Repair Center in your area

Call 24 hours a day, 7 days a week

1-800-488-1222



For information on purchasing a Sears
Maintenance Agreement or to inquire
about an existing Agreement

Call 9 am - 5 pm, Monday-Saturday

1-800-827-6655



When requesting service or ordering
parts, always provide the following
information:

- Product Type
- Part Number
- Model Number
- Part Description

SEARS
REPAIR SERVICES

America's Repair Specialists