SEARS

TRAFISMAN

MODEL NUMBER 917.378170 OWNER'S MANUAL

- Assembly
- Operation
- Maintenance
- Service
- AdjustmentsRepair Parts

Caution: Read and Follow all Safety Rules and Instructions **Before Operating** This Equipment



SAFETY RULES



CAUTION: ALWAYS DISCONNECT SPARK PLUG WIRE AND PLACE WIRE WHERE IT CANNOT CONTACT SPARK PLUG TO PREVENT ACCIDENTAL STARTING WHEN SETTING UP, TRANSPORTING, ADJUSTING OR MAKING REPAIRS.



IMPORTANT

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.
- Be aware that the mower blade turns when the engine is running.

PREPARATION!

- Always thoroughly check the area to be mowed and clear it of all stones, sticks wires, bones, and other foreign objects. These objects will be thrown by the blade and can cause severe injury.
- Always wear safety glasses or eye shields when starting and while using your mower.
- Dress properly. Do not operate mower when barefoot or wearing open sandals. Wear only solid shoes with good traction when mowing.
- Check fuel tank before starting engine. Do not fill gas tank indoors, when the engine is running or when the engine is hot. Allow the engine to cool for several minutes before filling the gas tank. Clean off any spilled gasoline before starting the engine.
- Always make wheel height adjustments before starting your mower. Never attempt to do this while the engine is running.
- · Mow only in daylight or good artificial light;

OPERATION:

- Keep your eyes and mind on your mower and the area being cut. Do not let other interests distract you.
- Do not mow wet or slippery grass. Never run while operating your mower. Always be sure of your footing - keep a firm hold on the handles and walk.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.

- Always stop the engine whenever you leave or are not using your mower, or before crossing driveways, walks, roads, and any gravel-covered areas.
- Never direct discharge of material toward bystanders nor allow anyone near the mower while you are operating it.
- Before cleaning, inspecting, or repairing your mower, stop
 the engine and make absolutely sure the blade and all
 moving parts have stopped. Then disconnect the spark plug
 wire and keep it away from the spark plug to prevent
 accidental starting.
- Do not continue to run your mower if you hit a foreign object.
 Follow the procedure outlined above, then repair any damage before restarting and operating you mower.
- Do not change the governor settings or overspeed the engine. Engine damage or personal injury may result.
- Do not operate your mower if it vibrates abnormally. Excessive vibration is an indication of damage; stop the engine, safely check for the cause of vibration and repair as required.
- Do not run the engine indoors. Exhaust fumes are dangerous.
- Never cut grass by pulling the mower towards you. Mow across the face of slopes, never up and down or you might lose your footing. Do not mow excessively steep slopes. Use caution when operating the mower on uneven terrain or when changing directions - maintain good footing.
- Never operate your mower without proper guards, plates, grass catcher or other safety devices in place.

MAINTENANCE AND STORAGE:

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



LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS - ATTENTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.

CONGRATULATIONS on your purchase of a Sears Craftsman Lawn Mower. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problems you cannot easily medy, please contact your nearest Sears Service Center/Department. Sears has competent, well trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your lawn mower properly. Always observe the "SAFETY RULES".

MODEL NUMBER 917.378170
SERIAL NUMBER
DATE OF PURCHASE
THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A DECAL ATTACHED TO THE REAR OF THE LAWN MOWER HOUSING.
YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

PRODUCT SPECIFICATIONS

HORSEPOWER:	3.5
DISPLACEMENT:	9.06 cu. in.
GASOLINE CAPACITY:	1.5 quarts (Unleaded)
OIL (20 oz. Capacity):	SAE 30 or (SAE 10W30)
SPARK PLUG (GAP .030 IN.): (0.76 mm)	Champion RJ19LM or Sears ²¹ 33312 or STD 361458 or STD 360950
VALVE CLEARANCE: Intake: Exhaust:	
SOLID STATE IGNITION AIR GAP:	.0125 in.
BLADE BOLT TORQUE:	35-40 ftlbs.

MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

- · Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your lawn mower.
- Follow the instructions under "Maintenance" and "Storage" sections of this Owner's Manual.

LIMITED ONE YEAR WARRANTY ON CRAFTSMAN POWER MOWER

For one year 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/731CR-W SEARS TOWER, CHICAGO, IL 60684

TABLE OF CONTENTS

SAFETY RULES2	MAINTENANCE9
PRODUCT SPECIFICATIONS3	SERVICE AND ADJUSTMENTS12
CUSTOMER RESPONSIBILITIES3	STORAGE17
WARRANTY3	TROUBLESHOOTING23
LAWN MOWER ACCESSORIES5	REPAIR PARTS - LAWN MOWER15-19
ASSEMBLY5	REPAIR PARTS - ENGINE20-22
OPERATION6	PARTS ORDERING/SERVICE . BACK COVER

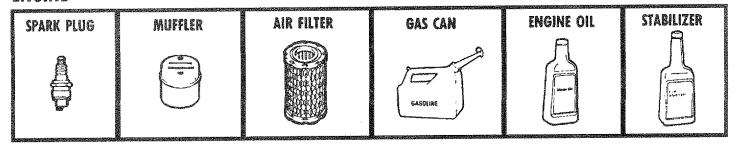
INDEX

A		P
Accessories5	Handle:	Repair Parts
Adjustments:	Adjustment13	Lawn Mower15-19
Carburetor13	Assembly5	Engine20-22
Drive Control Cable12	L	R
Handle Height13	Lubrication:	Responsibilities, Customer3
Height of Cut12	Engine9	\$
Air Filter:	Discharge Guard Hinge Pin9	Safety Rules2
Service11	Handle Bracket Mounting Pin 9	Service and Adjustments:
Assembly:	Wheel Adjuster9	Carburetor13
Handle5	Brake Spring Bracket9	Drive Control Cable12
В	M	Drive Belt12
Blade:	Maintenance:	Engine Speed13
Sharpening10	Agreement3	Handle13
Replacement10	Air Filter11	Service Recommendations9
C	Blade Care/Replacement 10	Spark Plug1
Controls:	Drive Wheels10	Specifications3
Operator Presence Control Bar .6	Engine11	Starting the Engine:
Drive Control6	Lubrication9	Drive Control7
Customer Responsibilities3	Spark Plug11	Stopping the Engine8
gene God Soon	Mowing Tips8	Storage14
Engine:	0	T
Oil Change11	Oil:	Throttle Control13
Oil Level11	Engine8	Trouble Shooting Chart23
Oil Type11	Storage14	W
Starting8	Operation:	Warranty3
Storage15	Operating Lawn Mower6-8	Wheels:
gene.	Control Bar6	Wheel Adjusters6
Fuel:	Throttle Control6	
Туре8	Operator Presence Control Bar6	
Storage14	Options:	
	Attachments5	

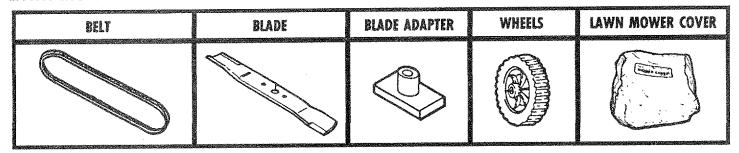
LAWN MOWER ACCESSORIES

These accessories were available when this lawn mower was produced. They are also available at most Sears retail outlets, catalog 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.

ENGINE



LAWN MOWER MAINTENANCE



ASSEMBLY

Your lawn mower has been assembled at the factory.

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 (See Fig. 1)

- Raise handles until lower handle section locks into place in mowing position.
- Raise upper handle section into place on lower handle, remove protective padding and tighten both handle knobs.
- Remove handle padding holding operator presence control bar to upper handle.
- Your lawn mower handle can be adjusted for your mowing comfort. Refer to "Adjust Handle" in the Service and Adjustment section of this manual.

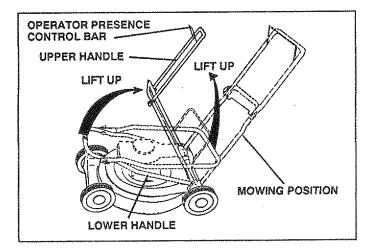


FIG. 1

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.

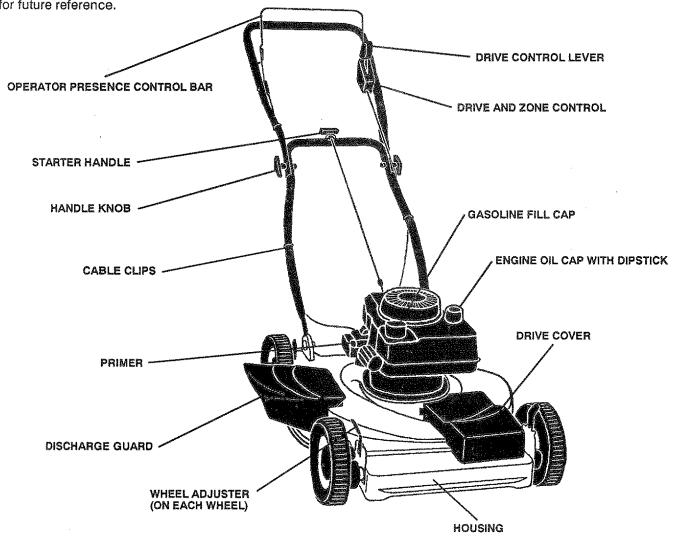


FIG. 2

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 LEVER -** used to engage power-propelled forward motion of lawn mower.

OPERATION

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.

DRIVE CONTROL (See Fig. 3)

- Self-propelling is controlled by holding the operator presence control bar down to the handle and pushing the drive control lever forward until it clicks; then release the lever.
- Forward motion will stop when the operator presence control bar is released. To stop forward motion without stopping engine, release the operator presence control bar slightly until the drive control disengages. Hold operator presence control bar down to handle to continue mowing without self-propelling.
- To keep drive control engaged when turning corners, push down on handle and lift front wheels off ground while turning lawn mower.

TO ADJUST CUTTING HEIGHT (See Fig. 4)

- Raise wheels for low cut and lower wheels for high cut.
- Wheels are set in low cut for shipping. Adjust cutting height to suit your requirements. Medium position is best for most lawns.
- To change cutting height, squeeze adjuster lever toward wheel. Move wheel up or down to suit your requirements. Be sure all wheels are in the same setting.

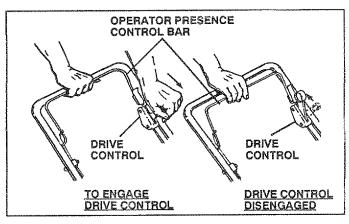


FIG. 3

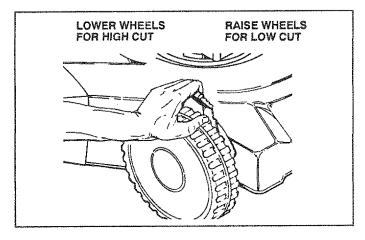


FIG. 4

OPERATION

BEFORE STARTING ENGINE

OIL (See Fig. 5)

A 20 oz. bottle of Pennzoil SAE 30 oil is included with your new lawn mower.

- Remove engine oil cap and fill to the FULL line on the dipstick.
- Use 20 ozs. of SAE 30 oil. SAE 10W 30 oil can also be used.
- DO NOT use SAE 10W 40 oil.
- POUR OIL SLOWLY. DO NOT OVERFILL.
- 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.
- After the first two (2) hours of mowing, change the oil, and every 25 hours thereafter. You may need to change the oil more often under dusty, dirty conditions.

GAS (See Fig. 5)

Fill gasoline tank with fresh, clean unleaded gasoline.
 DO NOT USE PREMIUM GASOLINE. BE CAREFUL NOT TO OVERFILL TANK.

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 for 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.

TO START ENGINE

- To start a cold engine, push primer five (5) times before trying to start. Use a firm push. This step is not usually necessary when starting an engine which has already run for a few minutes.
- Hold operator presence control bar down to the handle and pull starter handle quickly. DO NOT allow starter rope to snap back.
- To STOP engine, release operator presence control bar.

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

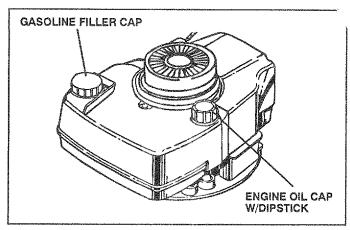
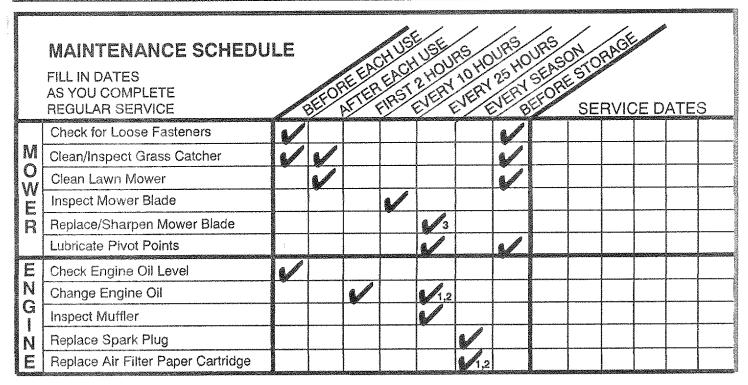


FIG. 5

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 and raise the rear of the lawn mower housing one (1) wheel adjuster setting higher than the front for better discharge of grass.
- For side discharge mowers, cutting in a counter-clock wise direction, starting at the outside of the area to be cut, spreads grass clippings more evenly and puts less load on the engine. To keep clippings off of walkways, flower beds, etc., make the first cuts in a clockwise direction.
- Keep top of engine around starter clear and clean of grass clippings and chaff. This will help engine air flow and extend engine life.

MAINTENANCE



- 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.

GENERAL RECOMMENDATIONS

The warranty on this lawn mower does not cover items that have been subjected to operator abuse or negligence. To recieve full value from the warranty, operator must maintain mower as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your unit.

All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

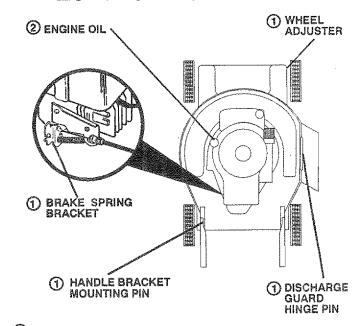
BEFORE EACH USE

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

LUBRICATION

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

LUBRICATION CHART



- **(1) SPRAY LUBRICANT**
- ② SAE 30 OR 10W30 MOTOR OIL. REFER TO ENGINE MAINTENANCE 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.

MAINTENANCE

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 (See Fig. 6)

- 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. Use a 9/16" box or open-end wrench.
- 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 (See Fig. 6)

- Position the blade adapter on the engine crankshaft.
 Be sure key in adapter and keyway in crankshaft 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 word TOP (stamped on the blade) is 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.



CAUTION: A loose blade can be dangerous.

Use only Sears authorized replacement blade to get the best cutting results.

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

TO SHARPEN BLADE

- 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.

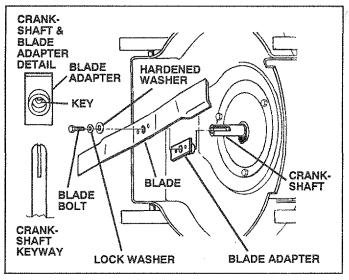


FIG. 6

GEAR CASE

- To keep your drive system working properly, the gear case and area around the drive should be kept clean and free of trash build-up. Clean under the drive cover twice a season.
- The gear case is filled with lubricant to the proper level at the factory. The only time the lubricant needs attention is if service has been performed on the gear case.
- If lubricant is required, use only Texaco Starplex Premium Grease, part no. 750355. Do not substitute.

DRIVE WHEELS

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

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

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

- Remove hubcaps, hairpin cotters and washers.
- Remove wheels from wheel adjusters.
- Remove any trash or grass cuttings from inside the dust cover, pinion and/or drive wheel gear teeth.
- Put wheels back in place.
- If after cleaning, the drive wheels do not turn freely, contact your nearest Sears Service Center.

GRASS CATCHER

(If purchased as an accessory)

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

MAINTENANCE

ENGINE LUBRICATION

Change the oil after the first two hours of operation and every 25 hours thereafter 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. Add SAE 30 motor oil or equivalent. Tighten oil plug securely each time you check the oil level.

TO CHANGE ENGINE OIL (See Fig. 7)

- · Remove engine oil cap; lay aside on a clean surface.
- Tip lawn mower on its side 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 SAE 30 or 10W 30 oil. Fill only to the "FULL" line on the dipstick. DO NOT OVERFILL.
- Replace engine oil cap.

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 (See Fig. 8)

- Remove the air filter by turning counterclockwise 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 clockwise to tighten.

MIFFIFE

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.

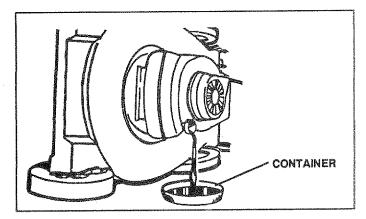


FIG. 7

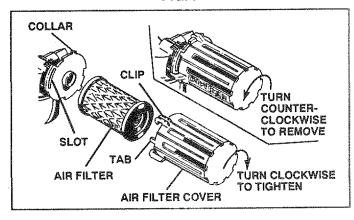


FIG. 8

CLEANING

Clean the underside of your mower after each use.

- 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 is shortening engine life.

CLEAN UNDER DRIVE COVER

Clean under drive cover at least twice a season. Scrape underside of cover with putty knife or similar tool to remove any build-up of trash or grass on underside of drive cover.

SERVICE AND ADJUSTMENTS



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.

DISCHARGE GUARD

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

TO REMOVE/REPLACE DRIVE BELT (See Fig. 9)

- Remove drive cover. Remove belt by pushing down on gear case pulley.
- Turn lawn mower on its side with carburetor and fuel cap up.
- Loosen hex head screw and move belt snubber away from pulley.
- Remove belt from engine pulley on crankshaft and carefully slip belt off over blade.
- · CAUTION: Sharp edges of blade can cut belt.
- · Install new belt by reversing above steps.
- Move belt snubber back in place and tighten hex head screw.

NOTE: Belt snubber clears belt by approx. 1/32 inch when installed.

 Always use factory approved belt to assure fit and long life.

TO ADJUST DRIVE CONTROL CABLE (See Fig. 10)

A drive control cable that needs adjustment will keep your lawn mower from self-propelling properly and can also cause gear case components to wear out sooner.

- Remove drive cover.
- Loosen cable clamp screw "A" and nuts "B" and "C".
- Hold down operator presence control bar to handle and engage drive control.
- Move shifter arm to drive position while rotating front wheels to be sure jaw clutch is engaged. Pull threaded sleeve with pliers. Do not pull on control cable.
- Tighten nut "C" until sleeve is snug.
- Tighten screw "A" and nut "B".
- Push lawn mower back and forth to be sure gear case is engaged.
- Replace drive cover.
- Release operator presence control bar.

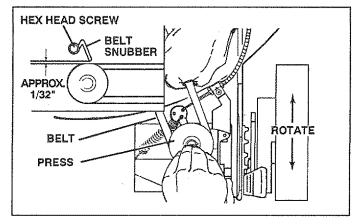


FIG. 9

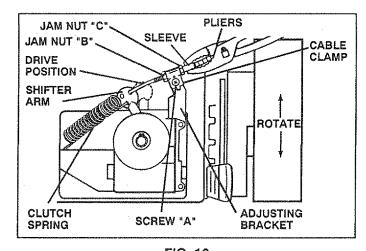


FIG. 10

SERVICE AND ADJUSTMENTS

TO ADJUST HANDLE (See Figs. 11 Thru 13)

Your lawn mower handle can be raised or lowered for your mowing comfort. Four (4) positions are available: high, medium high, medium low and low. Handles are shipped mounted in the medium low position.

- To change from medium low to medium high position, the upper and lower handle sections will have to be turned over (See Fig. 11B).
- Remove the controls and operator presence control bar from the upper handle.
- Remove the starter rope guide from the lower handle.
- Remove hairpin cotters.
- Disconnect the lower handle from the handle brackets (See Fig. 13).
- Turn the handle over and reassemble the hairpin cotters that have been removed.
- Reassemble the starter rope guide.
- Reassemble the controls and the operator presence control bar to the upper handle.



CAUTION: The operator presence control bar must pivot freely to permit blade brake engagement when control bar is released. Do not overtighten the fasteners holding the controls to the upper handle.

- To change from medium low to high position only the upper handle section will have to be turned over (See Fig. 12A).
- To change from medium low to low position, only the lower handle section will have to be turned over (See Fig. 12B).

ENGINE

ENGINE SPEED

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

CARBURETOR

Your carburetor has been preset at the factory and is not adjustable.

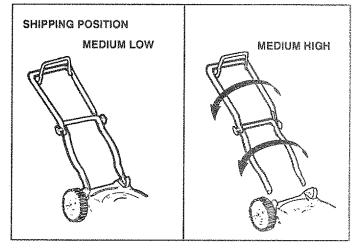


FIG. 11A

FIG. 11B

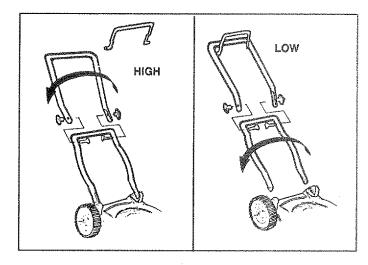


FIG. 12A

FIG. 12B

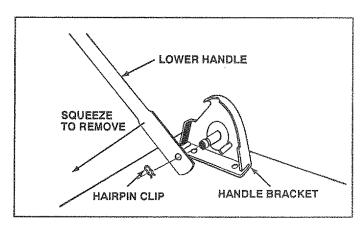


FIG. 13

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. Give blade and underside of housing a good coat of grease or rust preventative. 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 (See Fig. 14)

- You can fold your lawn mower handle for storage.
- To fold, squeeze the bottom ends of the lower handle toward each other until the lower handle clears the handle bracket, then move handle forward.

IMPORTANT: WHEN FOLDING THE HANDLE FOR STORAGE OR TRANSPORTATION, BE SURE TO FOLD THE HANDLE AS SHOWN IN FIG. 14. IF YOU FOLD THE UPPER HANDLE SECTION THE WRONG WAY, YOU MAY DAMAGE THE CONTROL CABLES.

 When setting up your handle from the storage position, the lower handle will automatically lock into the mowing position.

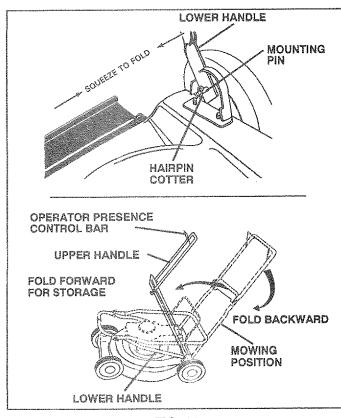


FIG. 14

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.

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.

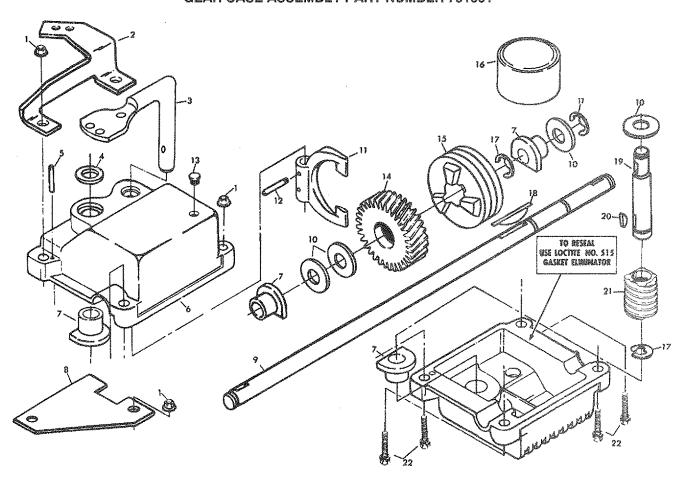
IMPORTANT: NEVER COVER MOWER WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.



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.

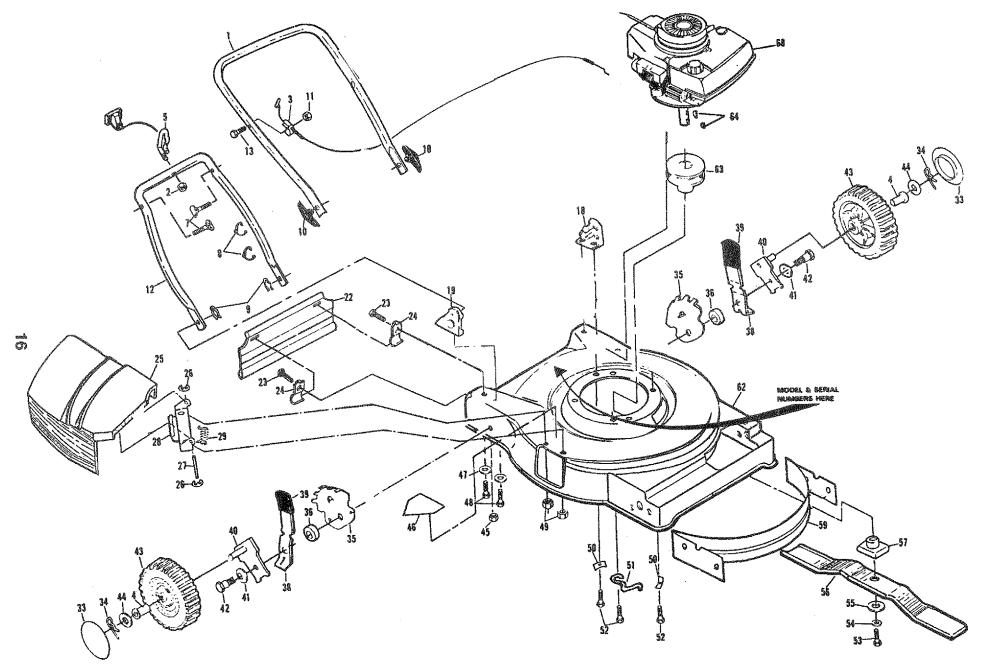
REPAIR PARTS

GEAR CASE ASSEMBLY PART NUMBER 751001



	. PART NO.	DESCRIPTION	REF NO.	. PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8	53838 85178 88386 57072 57388 48032 77881 77039	Keps Locknut 1/4-20 Adjusting Bracket Shifter Assembly Seal Grooved Pin 1/8 x 1/2 Gear Case Halves (Incl. Upper & Lower Halves) (Incl. Ref. 4, 5, 7) Bearing Spring Bracket	13 14 15 16 17 18 19 20 21	86447 83659 750436 750355 STD581050 850848 83720 65692 83680	Plug Helical Gear Jaw Clutch Grease E-Ring Hi-Pro Key Worm Shaft Woodruff Key #3 Worm
9 10 11 12	750430 57079 75144 87822	Drive Shaft Hardened Washer Yoke Clutch Grooved Pin 1/8 x 3/4	22	STD522512	Hex Head Machine Screw 1/4-20 x 1-1/4

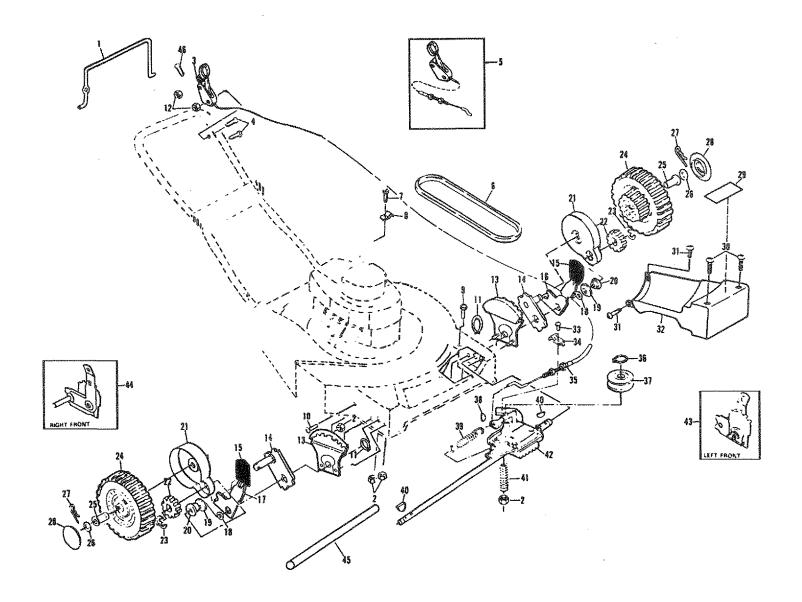
REPAIR PARTS
CRAFTSMAN 22" ROTARY LAWN MOWER - MODEL NO. 917.378170



REPAIR PARTS CRAFTSMAN 22" ROTARY LAWN MOWER - MODEL NO. 917.378170

KEY NO.	PART NO.	DESCRIPTION	KE'		PART NO.	DESCRIPTION
2 3 4 5 7 8 9 10 11 2 13 18 19 22 34 25 6 27 28 29 33 4 35 36 38 38	850991X479 STD541425 851667 86960 103672X 58714 85827 51793 63688 STD541425 84676X479 53109 63645X417 63644X417 128797 750097 87584X004 750149 STD581025 87593 87593 87593 87593 87593 87593 87593 87593 87593 87593 877400 85179 850955 84920 850855X004 87877	Locknut Remote Throttle Control Wheel Bushing Rope Guide Handle Bolt Cable Clip Hairpin Cotter Handle Knob Locknut Lower Handle Hex Head Bolt 1/4-20 x 1-1/2 Handle Bracket Assembly (Left) Handle Bracket Assembly (Right) Rear Deflector Hex Washer Head Screw #10-24 x 1/2 Deflector Bracket Discharge Guard E-Ring Hinge Rod Housing Bracket Torsion Spring Hubcap Retainer Clip Wheel Adjusting Bracket Spacer	41 42 43 44 45 46 47 48 49 55 55 55 55 55 66 66 68	62 84 87 52 75 85 85 85 85 85 85 85 85 85 85 85 85 85	1592 463 289 187 D541425 1201X004 1000 0998 1084 0263 1074 0973 1514 587X479 404X479 192 543 677 2423 2421 D accessorie 33072 33623 33500 33300	Axle Arm Assembly Belleville Washer Shoulder Bolt Wheel & Tire Assembly Washer Locknut 3/18-16 Danger Decal Flat Washer Thread Cutting Screw 5/16-18 x 3/4 Locknut Washer Belt Snubber Hex Head Thread Rolling Screw 3/8- 16 x 1-1/8 Hex Head Screw 3/8-24 x 1-3/8 (Grd. 8) Helical Lockwasher Hardened Washer Blade 22" Blade Adapter Front Baffle Rear Baffle (Not Shown) Lawn Mower Housing (Incl. Ref. #46, 59 & 60) Engine Pulley Hi-Pro Key #HP 505 Engine - Craftsman Model No. 143.424072 Owner's Manual es not included with lawn mower: Grass Catcher Gas Can (2.5 gal.) Fuel Stabilizer SAE 30W Oil (20 oz.) Mulcher Kit High Wheel Kit

CRAFTSMAN 22" ROTARY LAWN MOWER - MODEL NO. 917.378170

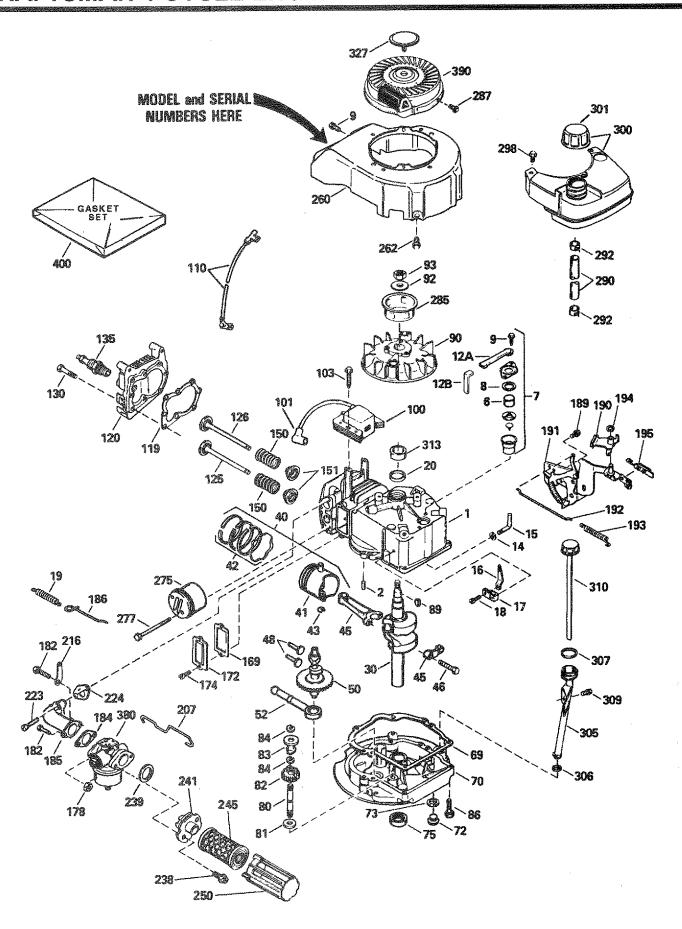


CC.

REPAIR PARTS CRAFTSMAN 22" ROTARY LAWN MOWER - MODEL NO. 917.378170

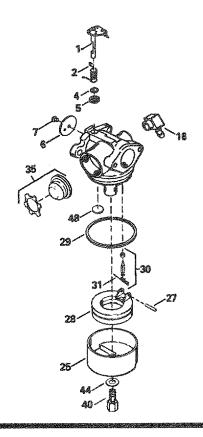
KE NC		DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16 17 18 19 20 21 22	851509 STD541425 48029 750029 133049 83691 750097 87930 54338 61528 STD582087 74189 850922 88284X004 87877 851019X004 851021X004 851021X004 86274 86273 76401 74507	Control Bar Locknut 1/4-20 Control Head Kit Screw #10 x 20 x 2 Control Cable Assembly V-Belt Hex Washer Head Screw #10-24 x 1/2 Clip Guide (Housing) Hex Head Bolt 1/4-20 x 2-3/4 Flat Head Machine Screw 1/4-20 x 3/4 Retaining Ring Locknut #10-24 Wheel Adjusting Bracket Axie Arm Assembly Selector Knob Selector Spring (Left) Selector Spring (Right) Washer Belleville Washer Bearing Spacer Dust Cover Pinion	24 87729 25 86960 26 52160 27 85179 28 77400 29 132333 30 87866 31 750097 32 750293 33 750108 34 83700 35 48269 36 STD582043 37 83681 38 STD580009 39 75192 40 STD580014 41 83632 42 751001 43 48175 44 48174 45 86012 46 851552	Wheel & Tire Assembly 8.00 x 1.75 Wheel Bushing Flat Washer Retainer Clip Hubcap Drive Cover Decal Pan Head Tapping Screw #10-24 x 2 3/4 Hex Washer Head Screw #10-24 x 1/2 Drive Cover Hex Washer Head Screw #10-24 x 3/8 Cable Clamp Drive Control Cable Kit Retaining Ring Drive Pulley Woodruff Key #213 Spring Woodruff Key #3 Spring Gear Case Assembly (Complete) Wheel Adjuster Assembly (Left) Wheel Adjuster Assembly (Right) Drive Shaft Cover Pan Head Hi Lo Screw #10-16 x .63
23	STD581050	E-Ring		

mà Lin



			entrative communication in the section of		
	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	35010	Cylinder Assy. (Incl. Ref. #2 & 20)		6021A	Screw, Hex Flange 5/16-18 x 1-1/2
2	26727	Pin, Dowel	135	35395	Spark Plug, Resistor (Champion
6	33734	Element, Breather			RJ-19LM or equivalent)
7	34214A	Breather Assembly (Includes		31672	Spring, Valve
0	33735	Reference #6, 8, 9, 12A and 12B)		31673	Cap, Lower Valve Spring
8 9	30200	* Gasket, Breather Screw, Sems, Hex Washer Head,		27234A 32755	* Gasket, Valve Spring Box
9	30200	Self-Tapping #10-24 x 9/16		650128	Cover, Valve Spring Box Screw, Sems, Hex Hd. #10-24 x 1/2
12A	33886	Tube, Breather		29752	Nut & Lock Washer 1/4-28
	34695	Elbow, Breather Tube		6201	Screw, Cap, Hex Hd. 1/4-28 x 7/8
14	28277	Washer, Flat		26756	* Gasket, Carburetor
15	30589	Rod, Governor (Includes Ref. #14)		31384A	Pipe, Intake (Includes Ref. #224)
16	31383A	Lever, Governor		32653	Link, Governor Spring
17	31335	Clamp, Governor Lever	189	650839	Screw, Sems, Hex Head, Powerlok
18 19	650548 31361	Screw, Hex Wash. Hd. #8-32 x 5/16	100	25024	1/4-20 x 3/8
20	32600	Spring, Extension Seal, Oil	190	35831 35040B	Lever, Brake Bracket, S.E. Brake (Includes #195)
30	35996	Crankshaft Assembly		34966	Link, Control
40	35544	Piston, Pin & Ring Assembly, Std.		34965	Spring, Extension
	35545	Piston, Pin & Ring Assy010" over		32309	Ring, Retaining
	35546	Piston, Pin & Ring Assy020" over		610973	Terminal Assembly
		(Assemblys Include #41, 42 and 43)		34336	Link, Throttle
41	35541	Piston & Pin Assembly, Standard		33086	Lever, RPM Adjusting
	35542	Piston & Pin Assembly .010" over		650451	Screw, Sems, Hex Head 1/4-20 x 1
	35543	Piston & Pin Assembly .020" over (Assemblys Include Reference #43)	238	34690A 650932	* Gasket, Intake Pipe
42	35547	Ring Set, Piston, Standard	200	00080Z	Screw, Hex Washer Head, Shoulder #10-32 x 49/64
	35548	Ring Set, Piston .010" oversize	239	34338	* Gasket, Air Cleaner
	35549	Ring Set, Piston .020" oversize		35797	Collar, Air Cleaner
43	20381	Ring, Piston Pin Retaining		35066	Filter, Air Cleaner, Paper
45	30963B	Rod Assy., Connecting (Incl. #46)		35065	Cover, Air Cleaner
46	32610A	Bolt, Connecting Rod		35393	Housing, Blower
48	27241	Valve, Lifter	262	650831	Screw, Hex Washer Head,
50 52	33148A 29914	Camshaft, Compression Release	075	074040	Powerlok Thread 1/4-20 x 15/32
69	35261	Pump Assembly, Oil * Gasket, Mounting Flange		27181B 650795	Muffler Assembly (Includes #277) Screw, Hex Head 1/4-20 x 2-1/4
70	34311C	Flange, Mounting (Includes		35000	Hub, Starter
. •	,	Reference #72, 73, 75 and 80)		650884	Screw, Hex Wash. Hd. #8-32 x 1/2
72	30572	Plug, Oil Drain (Includes Ref. #73)		30705	Line, Fuel
73	28833	* Gasket, Oil Drain Plug (Not	292	26460	Clamp, Fuel Line
		Required With Plastic Oil Plug)	298	28763	Screw, Hex Washer Head,
75	27897	Seal, Oil			Shakeproof #10-32 x 35/64
80 81	30574	Shaft, Governor	300	34369A	Tank Assembly, Fuel (Includes
82	30590A 30591	Washer, Flat Gear Assy., Governor (Incl. No. 81)	301	35355	Reference Numbers 292 and 301) Cap, Fuel
83	30588A	Spool, Governor		35577	Tube, Oil Fill
84	29193	Ring, Retaining		34265	Gasket, Fill Tube
86	650488	Screw, Sems, Hex 1/4-20 x 1-1/4		35499	"O" Ring
89	611004	Key, Flywheel		650562	Screw, Hex Washer Head,
90	611112	Flywheel			Shakeproof #10-32 x 1/2
92	650815	Washer, Belleville		35578	Dipstick, Oil-Fill
93	650816	Nut, Flywheel		34080	Spacer, Flywheel Key
100	34443A 610118	Solid State Assembly		35392	Plug, Starter
	650814	Cover, Spark Plug Screw, Sems, Torx T-15, Hex		632046A 590686	Carburetor (Includes Ref. #184) Starter, Rewind
,00	000017	Washer Head #10-24 x 1		33238D	Gasket Set (Incl. items marked *)
110	34961	Wire, Ground		we not but her bed but	sacros ou pron tomo mamos
	33015A	* Gasket, Cylinder Head		RPM Settina:	High Speed: 2900-3200
120	34342	Head, Cylinder			· · · · · · · · · · · · · · · · · · ·
125	29313C	Valve, Exhaust, Standard Size	*	Indicates Part	s Included in Gasket Set, Ref. #400
400	29315C	Valve, Exhaust, 1/32" oversize	G. S. valor decom	700 6 ti	, , , , , , , , , , , , , , , , , , , ,
126	29314B	Valve, Intake, Standard Size	NOT		ent dimensions given in U.S. inches
	29315C	Valve, Intake, 1/32" oversize (All Valves Include Reference #151)		1 inch = 25.	* IIIII
		vaives micidue meterence #101)			

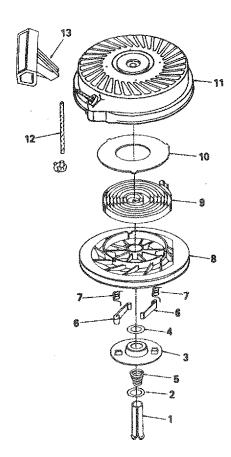
CARBURETOR NO. 632046A



REF NO.	PART NO.	DESCRIPTION
1	631615	Throttle Shaft and Lever Assembly
2 4	631767	Throttle Return Spring
4	631184	Dust Seal Washer
5	631971	Dust Seal
6	631616	Throttle Shutter
7	650506	Throttle Shutter Screw
16	632527	Fuel Fitting
25	631700	Float Bowl
27	631024	Shaft, Float
28	632019	Float
29	631028	"O" Ring, Float Bowl to Body
30	631021	Inlet Needle, Seat and Clip
		(Includes Reference Number 31)
31	631022	Spring Clip
35	632047	Primer Bulb/Retainer Ring
40	631937A	High Speed Bowl Nut
44	631334	Bowl Nut Washer
48	631027	Welch Plug, Atmospheric Vent

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

REWIND STARTER NO. 590686



	PART NO.	DESCRIPTION
	590686 590599A 590600 590615 590601 590598 590616 590617 590618 590619 590620 590687	Starter, Rewind Pin, Spring (Includes Reference #4) Washer Retainer Washer Spring, Brake Dog, Starter Spring, Dog Pulley Spring, Rewind Cover, Spring Housing Assembly, Starter, 40° Grommet
12 13	590535 590452	Rope, Starter (98" long, 9/64" dia.) Handle, Starter

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

TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Does not start	1. Dirty air filter. 2. Out of fuel. 3. Stale fuel. 4. Water in fuel. 5. Spark plug wire is disconnected. 6. Bad spark plug. 7. Loose blade or broken blade adapter. 8. Control bar in released position 9. Control bar defective	 Clean/replace air filter. Fill fuel tank. Drain tank and refill with fresh clean fuel. Drain fuel tank and carburetorand 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.
Loss of power	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.	 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	Worn, bent or loose blade. Wheel heights uneven. Low engine speed. Buildup of grass, leaves, and trash under mower.	Replace blade. Tighten blade bolt. Set all wheels at same height. Set engine speed control in HIGH position. Clean underside of mower housing.
Excessive vibration	Worn, bent or loose blade. Bent engine crankshaft.	Replace blade. Tighten blade bolt. Contact Sears Service Department.
Starter rope hard to pull	1. Engine flywheel brake is on when control bar is released. 2. Bent engine crankshaft 3. Blade adapter broken. 4. Blade dragging in grass.	Depress control bar to upper handle before pulling starter rope. Contact Sears Service Department. Replace blade adapter. Move lawn mower to cut grass or to hard surface to start engine.
Loss of drive	Drive wheels not turning with drive control engaged. Belt not driving.	Adjust or replace drive control cable, if broken. Put belt on pulleys or replace belts if broken.
Grass catcher not filling (if so equipped)	Cutting height too low. Lift on blade worn off. Catcher not venting air.	Raise cutting height. Replace blade. Clean grass catcher.
Hard to push	 Grass is too high or wheel height is too low. Rear of lawn mower housing/blade dragging in grass. Grass catcher too full. Handle height position not right for you. 	1. Raise cutting height. 2. Raise rear of lawn mower housing one (1) setting higher. 3. Empty grass catcher. 4. Adjust handle height to suit.

SEARS

OWNER'S MANUAL

MODEL NO. 917.378170

HOW TO ORDER REPAIR PARTS

CRAFTSMAN®

3.5 HORSEPOWER 22" SIDE DISCHARGE POWER PROPELLED ROTARY LAWN MOWER

Each Lawn Mower has its own model number. Each engine has its own model number.

The model number for your lawn mower will be found on a decal attached to the rear of the lawn mower housing.

The model number for the engine will be found on the Blower Housing of the engine adjacent to the spark plug.

All parts listed here in may be ordered through Sears, Roebuck and Co. Service Centers and most Retail Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PRODUCT "ROTARY LAWN MOWER"
- MODEL NUMBER 917.378170
- ENGINE CRAFTSMAN MODEL NUMBER 143.424072
- PART NUMBER
- PART DESCRIPTION

Your Sears merchandise has added value when you consider that Sears has service units nationwide staffed with Sears trained technicians...professional technicians specifically trained on Sears products, having the parts, tools and the equipment to insure that we meet our pledge to you, we service what we self.

132421 08/05/91

Printed in U.S.A.