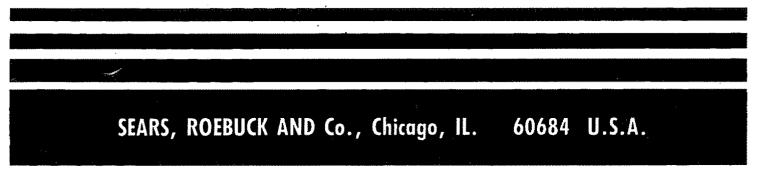


CRAFTS MARANUAL



Assembly
Operation
Maintenance
Service
Adjustments
Repair 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 TO YOUR LAWN MOWER.



IMPORTANT

FEDERAL REGULATIONS REQUIRE OPERATOR PRESENCE BLADE STOP CONTROLS TO MINIMIZE THE RISK OF BLADE CONTACT INJURY. YOUR LAWN MOWER IS EQUIPPED WITH SUCH CONTROLS. DO NOT ATTEMPT TO DEFEAT THE FUNCTION OF THE OPERATOR PRESENCE CONTROL UNDER ANY CIRCUMSTANCES.

- BE CAREFUL-WHEN THE ENGINE IS RUN-NING THE BLADE IS TURNING.
- Please read your owner's manual. Only allow persons who know the safety rules to use your lawn mower.
- DO NOT tie the operator presence control bar to the handle. Control must be free to permit brake engagement when handles and control are released.
- DO NOT allow children to use your lawn mower.
- Check your lawn mower over before each use. Tighten any loose bolts, nuts, etc.
- Remove all sticks, stones, wires, cans, boards, etc. from area to be mowed. These objects can be thrown by the blade.
- DO NOT allow children, bystanders or pets in the area while mowing.
- Always wear shoes when mowing. DO NOT operate lawn mower when barefoot or wearing open sandals.
- Always wear safety glasses or eye shields before starting your lawn mower and while mowing.
- Always shut off engine before trying to adjust wheel heights.
- When engine is running, DO NOT put hands or feet under lawn mower or in the discharge chute, nor make any adjustments.
- Stay clear of discharge opening at all times.
- Do not fill gas tank when engine is running, when indoors or when engine is hot. Allow engine to cool for several minutes before filling gas tank. Clean off any spilled gasoline before starting engine.
- Mow only in good light.
- Always stop blade when not cutting grass or when crossing gravel drive, sidewalk, or roadway.

- DO NOT continue to run your lawn mower if you hit a foreign object. Stop the engine, disconnect the spark plug wire from the spark plug, inspect the lawn mower for damage and make repairs as required.
- DO NOT use a damaged lawn mower. Always have damage repaired before mowing.
- DO NOT run your lawn mower if it vibrates too much. Stop engine and make repairs. Vibration is an indication of damage.
- Never use your lawn mower without proper guards or deflectors in place.
- Always mow across a slope or inclined area.
 DO NOT mow up or down a slope or inclined area.
- DO NOT mow in wet grass. Be careful of footing when mowing in wet grass, use shoes with good traction.
- DO NOT run with the lawn mower.
- DO NOT run your lawn mower indoors. Exhaust gases are deadly poison.
- Always disconnect the spark plug wire from spark plug to prevent accidental starting when transporting or storing your lawn mower after the mowing season.
- DO NOT attempt to raise engine speed above factory settings. Engine damage or personal injury may result.
- If a grass catcher is used on your lawn mower, check the catcher often for damage or deterioration. It will wear through normal use. Use only a recommended replacement catcher.
- Always stop blade to remove or install catcher.
- DO NOT store your lawn mower or gasoline where fumes may reach an open flame and cause a fire.
- DRAIN THE GASOLINE from your lawn mower before transporting your lawn mower inside your car or other vehicle.

LOOK FOR THIS SYMBOL TO POINT OUT IMPOR-TANT SAFETY PRECAUTIONS. IT MEANS-- ATTEN-TION!!! 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 problem you cannot easily remedy, please contact your nearest Sears Service Center/Department. We have competent, welltrained 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	917.380231

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

HORSE POWER:	3.5
DISPLACEMENT:	9.06 cu. in.
GASOLINE CAPACITY:	1.0 quart (Unleaded)
OIL (21 oz. Capacity):	SAE 30 or (SAE 10W30)
SPARK PLUG (GAP .030 in.):	Champion RJ19-LM or Sears Z1 33312 or STD 361458 or STD 360950
VALVE CLEARANCE: Intake: Exhaust:	.008 in. .008 in.
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.

ONE YEAR LIMITED WARRANTY ON CRAFTSMAN POWER MOWER

For one year from the date of purchase, when this Craftsman Lawn Mower is maintained, lubricated and tuned-up according to the instructions in the owner's manual, Sears will repair, free of charge, any defect in material and 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 may vary from state to state.

Sears, Roebuck and Company, D/731CR-W, Sears Tower, Chicago, IL 60684

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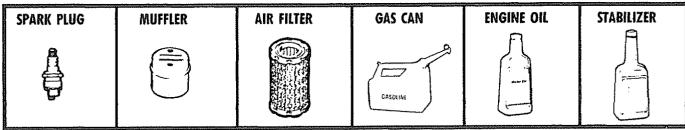
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LAWN MOWER ACCESSORIES

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 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

BELT	BLADE	BLADE ADAPTER	WHEELS	MOWER COVER
	1. isi			

ASSEMBLY

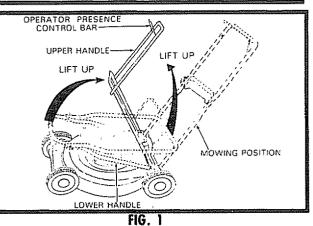
Your lawn mower has been completely assembled at the factory.

TO REMOVE LAWN MOWER FROM CARTON

- Cut down the corners of the carton and lay ends and sides down flat.
- Remove packing materials.
- Lift lawn mower off of shipping base and check carton for loose parts.

HOW TO SET-UP YOUR LAWN MOWER TO UNFOLD HANDLE

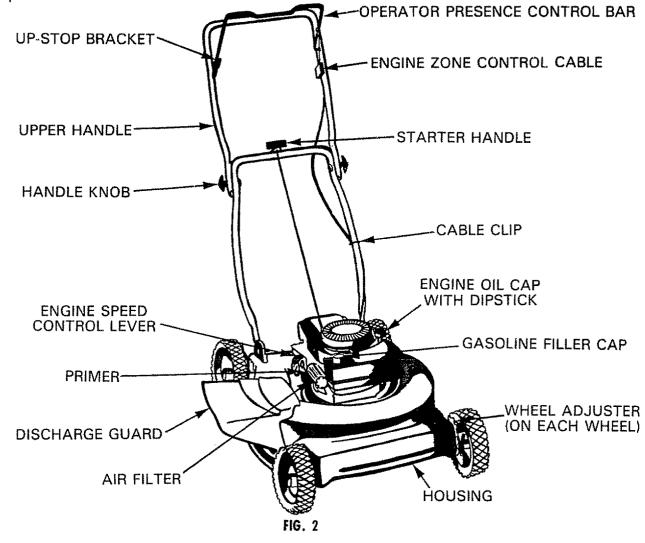
- Raise handles until lower handle section locks into place in mowing position (See Fig. 1).
- Raise upper handle section into place on lower handle, remove protective padding and tighten both handle knobs.
- Remove handle padding holding operator presence control bar to upper handle.
- Your lawn mower handle can be adjusted for your mowing comfort. Refer to "Adjust Handle" in the Service and Adjustment section of this manual.



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.



MEETS CPSC SAFETY REQUIREMENTS

Sears Rotary Walk-Behind Power Lawn Mowers conform to the safety standards of the American National Standards Institute and the U.S. Consumer Product Safety Commission. The blade turns when the engine is running.

OPERATOR PRESENCE CONTROL BAR - must be held down to the handle to start the engine. Release to stop the engine.

ENGINE SPEED CONTROL - located on the right side of the engine which allows you to select either "HIGH" or "LOW" engine speed.

PRIMER - pumps additional fuel from the carburetor to the cylinder for use when starting a cold engine.

STARTER HANDLE - used for starting the engine.

OPERATION

ENGINE SPEED CONTROL

The engine speed is controlled by a lever (red knob) located on the right side of the engine. "HIGH" position is for starting engine, normal cutting and better grass bagging. "LOW" position is for light cutting, trimming and fuel economy (See Fig. 3).

TO ADJUST CUTTING HEIGHT

- 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 (See Fig. 4).

BEFORE STARTING ENGINE

OIL:

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

- Rémove Engine Oil Cap (See Fig. 5) 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:

• Fill gasoline tank with fresh, clean unleaded gasoline. BE CAREFUL NOT TO OVERFILL TANK (SEE FIG. 5)

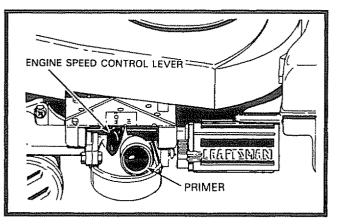
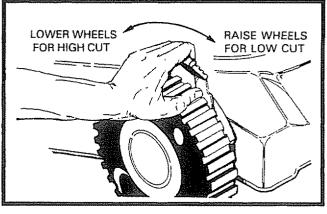


FIG. 3





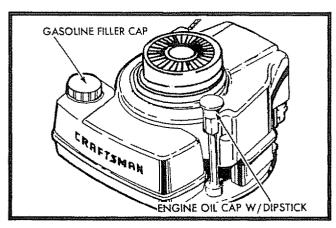


FIG. 5

OPERATION

GAS (CONT'D)

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.

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 DE-FEAT THE FUNCTION OF THE OPERATOR CONTROL. THE BLADE TURNS WHEN THE ENGINE IS RUNNING.

• Your Lawn Mower is equipped with an Operator Engine Control Bar which requires the operator to be positioned behind the Lawn Mower Handle to start and operate the lawn mower.

TO START ENGINE

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

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

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 lawn mowers, cutting in a counter-clockwise direction, starting at the outside of the area to be cut, spreads grass clippings more evenly and puts less load on the engine. To keep clippings off of walkways, flower beds, etc., make the first cuts in a clockwise direction.
- 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

GENERAL RECOMMENDATION

- Once a year you should replace the Spark Plug, Air Filter and check Blade for wear. A new Spark Plug and Air Filter assures proper air-fuel mixture and helps your engine run better and last longer.
- You should check all fasteners and be sure they are tight.
- Follow the Service Recommendation Schedule on page 14.

LAWN MOWER

BLADE/BLADE ADAPTER CARE

Your lawn mower will work better with a sharp Blade.



CAUTION: DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND PLACE WIRE WHERE IT CANNOT COME IN CONTACT WITH THE SPARK PLUG.

TO REMOVE BLADE:

- Turn lawn mower on its side. Make sure Air Filter and Carburetor are up.
- Use block of wood between Blade and Lawn Mower Housing to prevent Blade from turning when removing the 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, Lockwasher and Hardened Washer) (See Fig. 6).

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 Keyway in Crankshaft are aligned.
- Position Blade on to the Blade Adapter aligning the two (2) holes in the Blade with the raised lugs on the Adapter.

NOTE: Be sure the word TOP (stamped on the Blade) is toward the engine (See Fig. 6).

 Install the Blade Bolt with the Lockwasher and Hardened Washer into Blade Adapter and Crankshaft (See Fig. 6).

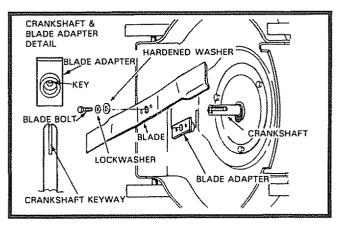


FIG. 6

- 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.
- Torque wrenches are available at most Sears stores and through the catalog.



CAUTION: A LOOSE BLADE CAN BE DANGEROUS AND MAY MAKE THE ENGINE HARD TO START.

Use only a 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 lawn mower.
- Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration when running and eventual damage to lawn mower or engine.
- 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, blade is not balanced. Sharpen the heavy end until the blade is balanced.

MAINTENANCE

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.

ENGINE

TO CHANGE OIL (WARM OIL DRAINS BETTER)



CAUTION: DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND PLACE WIRE WHERE IT CANNOT COME IN CONTACT WITH SPARK PLUG.

- Remove Engine Oil Cap with dipstick; lay aside on a clean surface.
- Tip lawn mower on its side as shown in Fig. 7 and drain oil into 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.
- Reconnect Spark Plug Wire to Spark Plug.

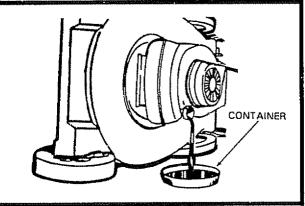
AIR FILTER

Your engine will not run properly and may be damaged by using a dirty Air Filter.

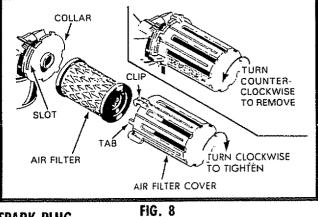
Replace the Air Filter every year, more often if you mow in very dusty, dirty conditions. Do not wash Air Filter.

TO CHANGE AIR FILTER

- Remove the Air Filter Cover by turning counterclockwise to the stop and pull away from Collar (See Fig. 8).
- Remove Filter from inside of Cover (See Fig. 8).
- 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 (See Fig. 8).







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

We recommend that you clean the underside of your lawn mower after each use.



CAUTION: 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 with Carburetor up.
- Clean the underside of your lawn mower by scraping to remove build-up of grass and trash.
- Clean your lawn mower and engine often to keep trash from accumulating around engine. A clogged engine runs hotter and shortens engine life.
- 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 shortening engine life.

SERVICE 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 Sears Service Center for repair and adjustment.

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 lawn mower to an authorized Sears Service Center for repair and adjustment.

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.



CAUTION: DO NOT RUN YOUR LAWN MOWER WITHOUT DISCHARGE GUARD OR APPROVED GRASS CATCHER IN PLACE.

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.

SERVICE AND ADJUSTMENT

TO ADJUST HANDLE

Your Lawn Mower Handle can be raised or lowered for your mowing comfort. Figs. 9A, 9B, 10A, and 10B show the four (4) positions that are available: High, Medium High, Medium Low and Low. Handles are shipped mounted in the Medium Low position (See Fig. 9A).

- To change from Medium Low to Medium High position, the Upper and Lower Handle sections will have to be turned over (See Fig. 9B).
- Remove the Controls and the 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. 11).
- Turn the Handle over and reassemble the Hairpin Cotters that have been removed (See Fig. 11).
- Reassemble the Starter Rope Guide to the Lower Handle.
- 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 FASTEN-ERS 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. 10A).
- To change from Medium Low to Low position, only the Lower Handle section will have to be turned over (See Fig. 10B).

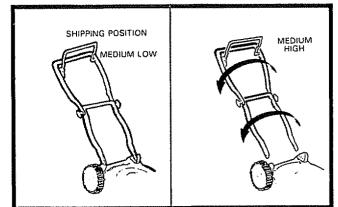


FIG. 9A

FIG. 9B

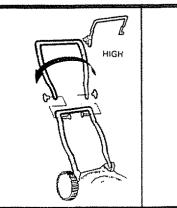




FIG. 10A

FIG. 10B

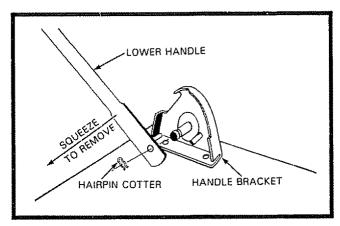


FIG. 11

STORAGE

Your lawn mower and engine should be prepared for off-season storage as follows:

LAWN MOWER

- Clean underside of Lawn Mower Housing. (See "Cleaning" in maintenance section of manual.)
- Inspect and replace/sharpen Blade, if required (See ''Blade/Blade Adapter Care'' in maintenance section of manual).
- Hose Grass Catcher off with water and let dry before storing (if purchased as an accessory).
- Lubricate as shown in Service Recommendation chart on page 14 of manual.

HANDLE

- You can fold your Lawn Mower Handle for storage as shown in Fig. 12.
- 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 (See Fig. 13).
- IMPORTANT: WHEN FOLDING THE HANDLE FOR STORAGE OR TRANSPORTATION, BE SURE TO FOLD THE HANDLE AS SHOWN IN FIG. 12. IF YOU FOLD THE UPPER HANDLE SECTION THE WRONG WAY, YOU MAY DAMAGE THE CONTROL CABLES.

ENGINE

- Change oil (See "To Change Oil" in maintenance section of manual).
- Drain fuel and run engine until fuel system is empty.
- IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS THE CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DUR-ING STORAGE. ALSO, EXPERIENCE **INDICATES** THAT ALCOHOL BLENDED FUELS (CALLED GASO-HOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOIS-TURE WHICH LEADS TO SEPARA-TION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

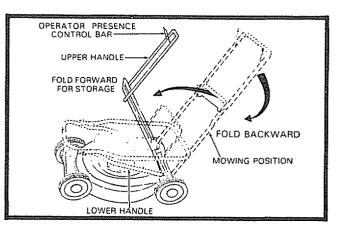


FIG. 12

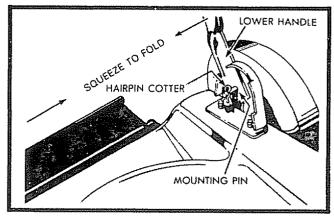


FIG. 13

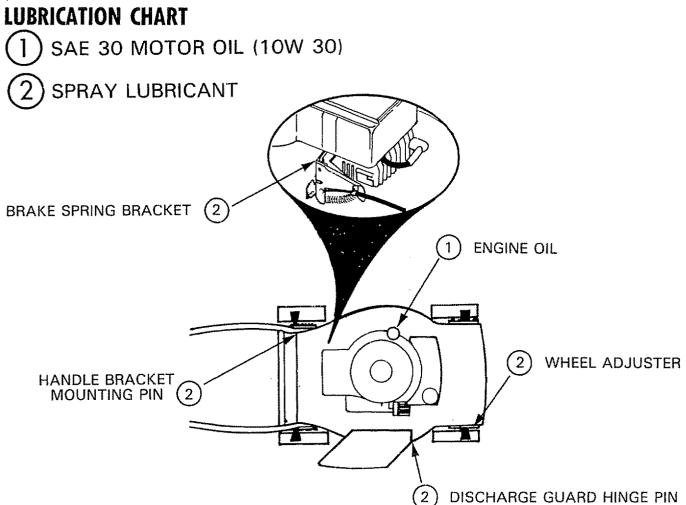
OTHER

- 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 can cause problems.
- Do not store your lawn mower under any plastic cover. Plastic cannot breathe which allows condensation to form and can cause your lawn mower to rust.
- When setting up your Handle from the storage position, the Lower Handle will automatically lock into the mowing position.

SERVICE RECOMMENDATIONS

SERVICE RECORD	SCHEDULE			SERVICE DATES	
Fill in dates as you complete regular service	First 2 Hours	Every 10 Hours	Every 25 Hours	Every Use	
Blade Checked					
Blade Replaced (Sharpened)			~		
Engine Oil Change	1		~		
Engine Oil Check				~	
Air Cleaner			~		
Spark Plug Replaced			1		
Lubricate Lawn Mower					
Cleaning				~	
Grass Catcher (if applicable)					
Muffler			~		

CHECK

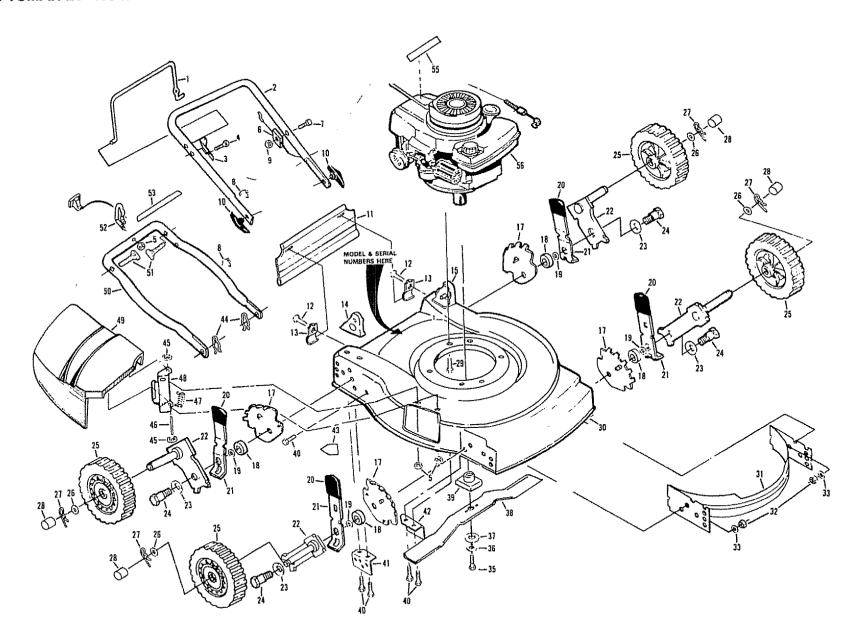


TROUBLE SHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Does not Start	 Dirty air filter. Out of gasoline. Stale gasoline. Spark plug wire is disconnected from the spark plug Bad spark plug. Water in gasoline. Loose blade or broken blade adapter Operator presence control bar in re- leased position Operator presence control bar defec- tive. 	 Replace air filter Fill gasoline tank. Drain gas tank and refill with fresh gasoline. Connect wire to spark plug. Replace spark plug. Drain tank and refill with fresh, clean gasoline. Tighten blade bolt and/or replace blade adapter. Depress operator presence control bar. Replace operator presence control bar.
Loss of Power	 Rear of lawn mower housing/blade dragging in heavy grass. Cutting too much grass. Dirty air filter. Build-up of grass, leaves, and trash under lawn mower housing. Walking speed too fast. Too much oil in engine. 	 Raise rear of lawn mower housing one (1) setting higher than front. Set in HIGHER CUT position. Clean or replace air filter. Disconnect spark plug wire and clean underside of lawn mower housing. Cut at slower walking speed. Check engine oil level.
Poor cut- Uneven	 Worn, bent or loose blade. Wheel heights uneven. Low engine speed. Build-up of grass, leaves and trash under lawn mower housing. 	 Replace blade. Tighten blade bolt. Set all wheels at same height. Set engine speed control in HIGH position. Disconnect spark plug wire & clean underside of lawn mower housing.
Too much Vibration	 Worn or bent blade. Loose blade. Bent engine crankshaft. 	 Replace blade. Tighten blade bolt. Contact Sears Service Department.
Starter Rope Hard to Pull	 Flywheel brake is on when operator presence control bar is released. Bent engine crankshaft. Blade adapter sheared. Blade dragging in grass. 	 Depress operator presence control bar to upper handle before pulling on starter rope. Contact Sears Service Department. Replace blade adapter. Get over low grass and/or hard surface to start engine.
Catcher Not Filling Completely	 Cutting height too low. Lift on blade worn off. Catcher bag dirty, poor air venting. Low engine speed. 	 Raise cutting height. Replace blade. Clean/replace catcher bag. (If optional grass catcher is being used). Set engine speed control in HIGH position.
HARD TO PUSH	 High grass or cutting height too low. Rear of lawn mower housing/blade dragging in heavy grass. Grass catcher too full. Handle height position not right for you. 	 Raise cutting height. Raise rear of lawn mower housing one (1) setting higher than front. Empty grass catcher. Adjust handle height to suit.

CRAFTSMAN 20" ROTARY LAWN MOWER MODEL NUMBER 917.380231

REPAIR PARTS

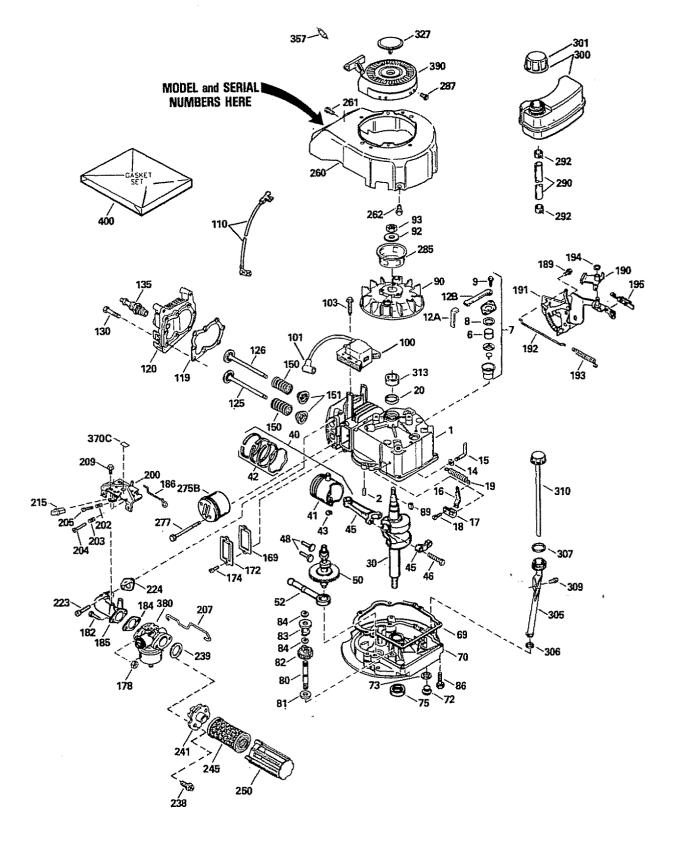


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CRAFTSMAN 20" ROTARY LAWN MOWER MODEL NUMBER 917.380231

REPAIR PARTS

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
	No. 86902 850991X479 86899X004 750097 STD541425 851664 53109 85827 STD541425 63688 751228	Control Bar Upper Handle Up-Stop Bracket Hex Washer Head Tapping Screw 10- 24 x 1/2 Locknut 1/4-20 Engine Zone Control Cable Hex Head Bolt 1/4-20 x 1-1/2 Cable Clip Locknut 1/4-20 Handle Knob Rear Skirt	No. 30 31 32 33 35 36 37 38 39 40	No. 48177 87575X479 751592 61537 851084 850263 851074 850972 850977 55187	Lawn Mower Housing Kit (Incl. Ref. # 31, 43) Front Baffle Locknut 3/8 - 16 Washer Hex Head Machine Screw 3/8-24 x 1- 1/4 Grd. 8 Helical Washer 3/8 Hardened Washer Blade 20" Blade Adapter Self Tapping Screw 5/16 - 18 x 3/4
12 13 14 15 17 18 19 20 21 22 23 24 25 26 27 28 29	81276 87584×004 63644×417 63645×417 850904 84920 88348 87877 850856 85022 62335 84921 750500 52160 85179 800090 850998	Selt Tapping Screw 10-24 x 1/2 Skirt Bracket Handle Bracket Assembly (Right) Handle Bracket Assembly (Left) Wheel Adjusting Bracket Spacer Washer Selector Knob Selector Spring Axle Arm Assembly Belleville Washer Shoulder Bolt Wheel & Tire Assembly 7-1/2 x 1-1/2 Washer Retainer Clip Hubcap Hex Head Thread Rolling Screw 3/8 - 16 - 1	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 	88272×479 88271×479 85463 51793 33750 87590 87589 87593 750149 84676×479 58714 103672× 128544 87576×479 751214 752062 752094	Handle Support Bracket (Right) Handle Support Bracket (Left) Danger Decal Hairpin Cotter E-Ring Hinge Rod Torsion Spring Housing Bracket Assembly Discharge Guard Lower Handle Handle Bolt Rope Guide Instruction Decal Rear Baffle (Not Shown) "EAGER I" Decal Engine - Craftsman Model Number 143.414232 Owner's Manual



CRAFTSMAN 4-CYCLE ENGINE

MODEL NUMBER: 143.414232

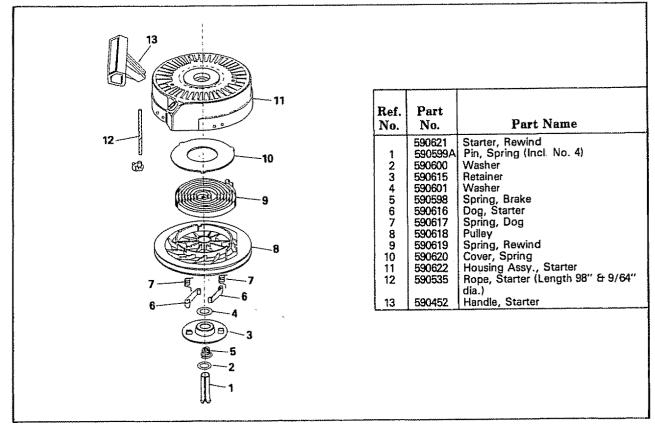
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Ref.	Part		Ref.	Part	
No.	No.	Part Name	No.	No.	Part Name
1 1	34975	Cylinder Assy. (Incl. Nos. 2, 8, 9 & 20)	150	31672	Spring, Valve
2	26727	Pin, Dowel	151	31673	Cap, Lower valve spring
6	33734		169	*27234A	Gasket, Valve spring box
7		Element, Breather	172	32755	Cover, Valve spring box
1 1	34214A	Breather Assy. (Incl. Nos. 6, 8, 9, 12A	174	650128	Cover, verve spring Dox
		& 12B)			Screw, Hex hd. Sems, 10-24 x 1/2
8	*33735	Gasket, Breather	178	29752	Nut & Lockwasher, 1/4-28
9	30200	Screw, Hex washer hd. self-tap Sems,	182	6201	Screw, Hex hd., 1/4-28 x 7/8
		10-24 x 9/16	184	*26756	Gasket, Carburetor
12A	34695	Elbow, Breather tube	185	31384A	Pipe, Intake (Incl. No. 224)
12B	33886	Tube, Breather	186	34337	Link, Governor spring
			189	650839	Screw, Hex washer hd. Powerlok,
14	28277	Washer, Flat	100	000000	1/4-20 x 3/8
15	30589	Rod, Governor (Incl. No. 14)	100	00004	
16	31383A	Lever, Governor	190	35831	Lever, Brake
17	31335	Clamp, Governor lever	191	35040	Bracket, S.E. Brake (Incl. No. 195)
18	650548	Screw, Hex washer hd., 8-32 x 5/16	192	34966	Link, Control
19	31361	Spring, Extension	193	34965	Spring, Extension
20	32600	Seal, Oil	194	32309	Ring, Retaining
20			195	610973	Terminal Assy
30	34473A	Crankshaft Assy	200	35727	Bracket Assy., Control (Incl. Nos. 202
40	34514	Piston, Pin & Ring Assy. (Std.)	200	30/2/	
		(Incl. Nos. 41, 42 & 43)			thru 205)
40	34515	Piston, Pin & Ring Assy. (.010 over-	202	33802	Spring, Compression
		size) (Incl. Nos. 41, 42 & 43)	203	31342	Spring, Compression
40	34516	Piston, Pin & Ring Assy. (.020 over-	204	650549	Screw, Fil. hd., 5-40 x 7/16
	0.010		205	650777	Screw, Fil. hd., 6-32 x 21/32
ا مم ا	225300	size) (Incl. Nos. 41, 42 & 43)	207	34336	Link, Throttle
41	32538B	Piston & Pin Assy. (Std.) (Incl. No. 43)	209	30200	
41	32548B	Piston & Pin Assy. (.010 oversize)	203	30200	Screw, Hex washer hd. self-tap Sems,
I		(Incl. No. 43)	~~~		10-24 x 9/16
41	32549B	Piston & Pin Assy. (.020 oversize)	215	32410	Knob, Control
		(Incl. No. 43)	223	650451	Screw, Hex hd. Sems, 1/4-20 x 1
42	28986	Ring Set, Piston (Std.)	224	*34690A	Gasket, Intake pipe
42	28987		238	650932	Screw, Hex washer hd. shoulder,
		Ring Set, Piston (010 oversize)			10-32 x 49/64
42	28988	Ring Set, Piston (.020 oversize)	239	*34338	
43	20381	Ring, Piston pin retaining			Gasket, Air cleaner
45	30963B	Rod Assy., Connecting (Incl. No. 46)	241	35797	Collar, Air cleaner
46	32610A	Bolt, Connecting rod	245	35066	Filter, Air cleaner (Paper)
48	27241	Valve, Lifter	250	35065	Cover, Air cleaner
50	33148A	Camshaft (Compression Release)	260	35478	Housing, Blower
52	29914	Pump Assy., Oil	261	30200	Screw, Hex washer hd self-tap Sems,
69	*35261				10-24 x 9/16
		Gasket, Mounting flange	262	650831	Screw, Hex washer hd. Powerlok
70	35651B	Flange, Mounting (Incl. Nos 72, 73, 75	202	0.0001	
		E+ 80)			thread, 1/4-20 x 15/32
72	30572	Plug, Oil drain (Incl. No. 73)	275B	27181B	Muffler Assy. (Incl. No. 277)
73	*28833	Gasket, Oil plug (Not required with	277	650795	Screw, Hex hd , 1/4-20 x 2-1/4
		plastic oil plug)	285	35000	Hub, Starter
75	26208		287	650884	Screw, Hex washer hd., 8-32 x 1/2
		Seal, Oil	290	34357	Line, Fuel
80	30574	Shaft, Governor	292	26460	
81	30590A	Washer, Flat	300		Clamp, Fuel line
82	30591	Gear Assy., Governor (Incl. No. 81)		35586	Tank Assy. (Incl. Nos. 292 & 301)
83	30588A	Spool, Governor	301	35355	Cap, Fuel
84	29193	Ring, Retaining	305	35577	Tube, Oil fill
86	650488	Screw, Hex hd. Sems, 1/4-20 x 1-1/4	306	34265	Gasket, Fill tube
89	611004	Key, Flywheel	307	35499	"O" Ring
90	611112	Flywheel	309	650562	Screw, Hex washer hd. shakeproof,
50			000	000004	10-32 x 1/2
92	650815	Washer, Belleville	310	35578	
93	650816	Nut, Flywheel			Dipstick, Oil fill
100	34443A	Solid State Assy	313	34080	Spacer, Flywheel key
101	610118	Cover, Spark plug	327	35392	Plug, Starter
103	650814	Screw, Torx T-15 hex washer hd.	357	34985	Retainer, Starter rope
		Sems, 10-24 x 1	370C	35167	Decal, Instruction
110	34961	Wire, Ground	380	632046A	Carburetor (Incl. No. 184)
			390	590621	Starter, Rewind
119	*29953C	Gasket, Cylinder head	400	33238D	Gasket Set (Incl. items marked *)
120	34335	Head, Cylinder	400	332300	Gesker Ser (Ind. Reins marked *)
125	29313C	Valve, Exhaust (Std.) (Incl. No. 151)			
125	29315C	Valve, Exhaust (1/32" oversize) (Incl.			RPM Setting:
		No. 151)			Low Speed: 2000-2300
126	29314B	Valve, Intake (Std.) (Incl. No. 151)	1		High Speed: 2900-3200
126					
120	29315C	Valve, Intake (1/32" oversize)			*Indicates Parts Included in
	[(Incl. No. 151)			
130	6021A	Screw, Hex flange hd., 5/16-18 x 1-1/2	1		Gasket Set, Ref. No. 400.
135	35395	Spark Plug, Resistor (Champion R.J-			
1	1	19LM or equivalent)			
l	l				

CARBURETOR NO. 632046A

	Ref.	Part	Part Name
	No. 1 2 4 5 6 7 16 25 27 28 29 30 31 35 40 44 48	No. 631615 631767 631184 631971 631616 650506 632527 631700 631024 631029 631028 631021 631022 632047 631334 631334 631027	Throttle Shaft & Lever Assy. Throttle Return Spring Dust Seal Washer Dust Seal Throttle Shutter Throttle Shutter Screw Fuel Fitting Float Bowl Shaft, Float Float "O" Ring, Float Bowl to Body Inlet Needle, Seat & Clip (Incl. No. 31) Spring Clip Primer Bulb / Retainer Ring High Speed Bowl Nut Bowl Nut Washer Welch Plug, Atmospheric Vent
25- 44- 40- 1			

REWIND STARTER NO. 590621

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SEARS	CRAFTSMAN ®
OWNER'S MANUAL	3.5 HORSE POWER 20'' SIDE DISCHARGE ROTARY LAWN MOWER
MODEL NO. 917.380231	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.
	Blower Housing of the engine adjacent to the spark plug. All parts listed herein 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 - 917.380231
IOW TO ORDER	* ENGINE - CRAFTSMAN MODEL NO. 143.414232
REPAIR PARTS	* PART NUMBER
	* PART DESCRIPTION Your Sears merchandise has added value when you con- sider that Sears has service units nationwide staffed with Sears trained techniciansprofessional 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 sell.
2094 02/11/91 Rev	/. 1 Printed in U.S.A

SEARS, ROEBUCK AND CO., Chicago, IL. 60684 U.S.A.