



CRAFTSMAN 4.0 HORSEPOWER 14 INCH TINE WIDTH COUNTER ROTATING TINES REAR TINE TILLER

Assembly Operation Maintenance Service and Adjustment Repair Parts

Sears, Roebuck and Co., Chicago, IL 60684 U.S.A.



SAFETY RULES Safe Operation Practices for Walk-Behind Powered Rotary Tillers



TRAINING

- Read the operating and service instruction manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
- Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
- Keep the area of operation clear of all persons, particularly small children, and pets.

PREPARATION

- Thoroughly inspect the area where the equipment is to be used and remove all foreign objects.
- Disengage all clutches and shift into neutral before starting the engine (motor).
- Do not operate the equipment without wearing adequate outer garments. Wear footwear that will improve footing on slippery surfaces.
- · Handle fuel with care; it is highly flammable.
 - Use an approved fuel container.
 - · Never add fuel to a running engine or hot engine.
 - Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - Replace gasoline cap securely and clean up spilled fuel before restarting.
- Use extension cords and receptacles as specified by the manufacturer for all units with electric drive motors or electric starting motors.
- Never attempt to make any adjustments while the engine (motor) is running (except where specifically recommended by manufacturer).

OPERATION

- · Do not put hands or feet near or under rotating parts.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
- After striking a foreign object, stop the engine (motor), remove the wire from the spark plug, thoroughly inspect the tiller for any damage, and repair the damage before restarting and operating the tiller.
- · Exercise caution to avoid slipping or falling.

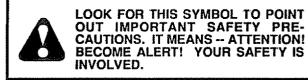
- If the unit should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
- Stop the engine (motor) when leaving the operating position, before unclogging the tines, and when making any repair, adjustments, and inspections.
- Take all possible precautions when leaving the machine unattended. Disengage the power take-off, lower the attachment, shift into neutral, stop the engine, and remove the key.
- Before cleaning, repairing, or inspecting, shut off the engine and make certain all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting. Disconnect the cord on electric motors.
- Do not run the engine indoors; exhaust fumes are dangerous.
- Never operate the tiller without proper guards, plates, or other safety protective devices in place.
- · Keep children and pets away.
- Do not overload the machine capacity by attempting to till too deep at too fast a rate.
- · Never allow bystanders near the unit.
- Use only attachments and accessories approved by the manufacturer of the tiller (such as wheel weights, counter-weights, cabs, and the like).
- · Never operate the tiller without good visibility or light.
- Be careful when tilling in hard ground. The tines may catch in the ground and propel the tiller forward. If this occurs, let go of the handlebars and do not restrain the machine.

MAINTENANCE AND STORAGE

- Keep machine, attachments, and accessories in safe working condition.
- Check shear bolts, engine mounting bolts, and other bolts at frequent intervals for proper tightness to be sure the equipment is in safe working condition.
- Never store the machine with fuel in the fuel tank inside a building where ignition sources are present, such as hot water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.
- Always refer to the Owner's Manual instructions for important details if the tiller is to be stored for an extended period.

-IMPORTANT -

Warnings, Cautions, and Notes are a means of attracting attention to important or critical information in this manual.



CAUTION: USED TO ALERT YOU THAT THERE IS A POSSIBILITY OF DAMAGING THIS EQUIPMENT.

NOTE: Gives essential information that will aid you to better understand, incorporate, or execute a particular set of instructions.

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

Should you experience any problems you cannot easily remedy, please contact your nearest Sears Service Center/Department. We have 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 Tiller properly. Always observe the "SAFETY RULES".

MODEL NUMBER	917.299642
SERIAL	

NUMBER

DATE OF PURCHASE

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON THE MODEL PLATE ATTACHED TO THE TOP OF THE TRANSMISSION.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

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 Tiller.
- Follow the instructions under "Maintenance" and "Storage" sections of this Owner's Manual.

LIMITED ONE YEAR LIMITED WARRANTY ON CRAFTSMAN TILLER

For one year from date of purchase, when this Craftsman Tiller 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 Tiller is used for commercial or rental purposes, this Warranty applies for only 30 days from the date of purchase.

This Warranty does not cover:

- · expendable items which become worn during normal use, such as tines, spark plug, air cleaners and belts.
- 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 TILLER 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

-NOTE-

This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forestcovered, brush-covered or grass covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. See your Sears Authorized Service Center for spark arrester. Refer to page 33 of Repair Parts section of this manual for part number.

3

HORSEPOWER:	4.0
DISPLACEMENT:	11.39 CU. IN.
GASOLINE CAPACITY:	2 QUART (UNLEADED)
OIL (20 OZ. CAPACITY):	SAE 30W (SAE 10W 30)
SPARK PLUG (GAP .030 IN.):	CHAMPION RCJ8

TABLE OF CONTENTS

SAFETY RULES
CUSTOMER RESPONSIBILITIES 3
WARRANTY
PRODUCT SPECIFICATIONS 5
TILLER ACCESSORIES
ASSEMBLY
OPERATION
MAINTENANCE
SERVICE RECOMMENDATIONS
SERVICE & ADJUSTMENT 17

STORAGE	
TROUBLE SHOOTING	
REPAIR PARTS-TILLER	
REPAIR PARTS-ENGINE	29-33
PARTS ORDERING/SERVICE	ck page

INDEX F

Α

Adjustments:
Carburetor
Depth Stake
Handle Height
Tines
Throttle
Ground Drive Belt
Wheels
Air Cleaner:
Maintenance14
В
Belts:
Ground Drive Belt 18
С
Carburetor:
Adjustment
Cooling System:
Maintenance
Controls:
Choke
Throttle
Cultivating:
Operation 13
D
Depth Stake:
Adjustment 10
E
Engine:
Air Cleaner
Repair Parts
Cooling System
Fuel Type Lubrication
Oil Level
Oil Type
Spark Plug
Starting & Stopping
Storage
Winter Operation

Fuel:
Filling Tank
Type
Storage 21
Finish:
Maintenance
H
Handle:
Repair Parts23 Height Adjustment17
L
Lubrication:
Lubrication Chart 16
Engine
M
Maintenance:
Air Cleaner14
Cooling System
Finish 15 Maintenance Check List 16
Maintenance Check List
Muffler
Spark Plug
Oil Change
Muffler:
Maintenance
Spark Arrester
0
Oil:
Level
Туре тольковые в волого в волого толькование в волого тольков
Operation:
Cultivating
Fill Engine with Oil
Start Engine
Stopping Tine & Engine 11
Tilling 10
Tilling Hints
Tine Operation 10
Transporting Tiller

R

**	
Repair Parts:	
Illustrated Breakdown23 - 3	33
Rules for Safe Operation:	
List of Rules	.2
S	
Service & Adjustment:	
	.
Carburetor Handle Height	17
Tine Arrangement	10
Throttle Control Adjustment	λñ
Ground Drive Belt	18
Service:	
Service Record	16
Repair Parts 23 - 3	33
Spark Plug:	
Gap	14
Storage:	
Fuel System	21
Tiller	21
Т	
Tilling:	
Operation	10
Tines:	
Repair Parts	28
Replacement	19
Operation	10
Throttle:	
Control Adjustment	20
Transmission:	
Maintenance	15
Repair Parts Trouble Shooting:	20
Chart	24
Transporting:	~ I
Operation	11
W	• •
Warranty:	
Tiller	.3

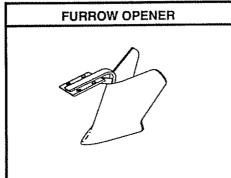
TILLER ACCESSORIES

THESE ACCESSORIES WERE AVAILABLE WHEN THE TILLER WAS PURCHASED. 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 TILLER.

ENGINE

SPARK PLUG	MUFFLER	AIR FILTER	GAS CAN	ENGINE OIL	STABILIZER
	į		Ĩ	Ê	ß

TILLER PERFORMANCE



TILLER MAINTENANCE

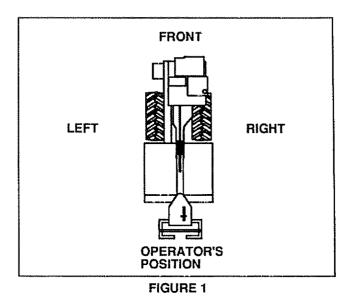
BELT	TINES	RETAINING PIN	HAIRPIN CLIP
	6		

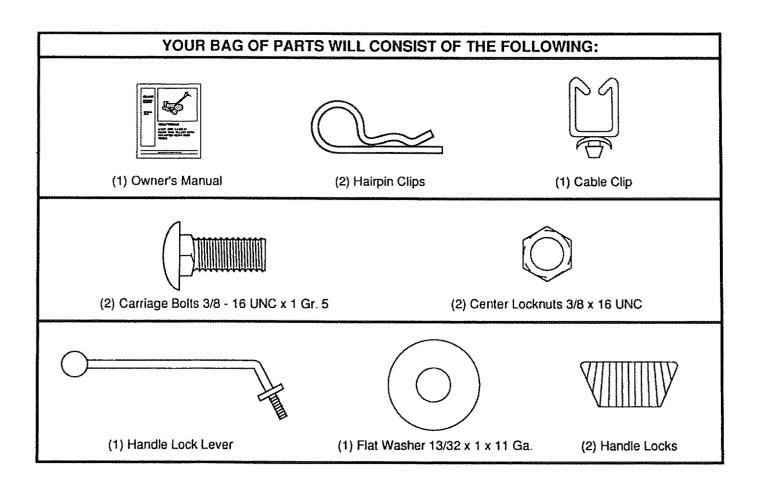
ASSEMBLY

- TO ASSEMBLE YOUR TILLER YOU WILL NEED:
- (1) utility knife
- (1) wire cutter
- (1) tire pressure gauge(1) pair of pliers
- (1) screwdriver (1) 9/16" wrench
- (1) ratchet
- (1) socket extension
- (1) 9/16" socket

OPERATOR'S POSITION

The right hand (R.H.) and left hand (L.H.) sides of your Tiller are determined from the Operator's Position while standing behind Tiller.





ASSEMBLY

UNPACKING CARTON



BE CAREFUL OF EXPOSED STAPLES WHEN HANDLING OR DISPOSING OF CARTONING MATERIAL.

- CAUTION: WHEN UNPACKING AND ASSEMBLING TILLER, BE CAREFUL NOT TO STRETCH OR KINK CABLES.
- While holding Handle Assembly, cut Cable Ties securing Handle Assembly to Top Frame and Depth Stake. Let Handle Assembly rest on Tiller.
- · Remove Top Frame of Carton.
- Slowly ease Handle Assembly up and place upside down on top of Carton (Fig. 2).

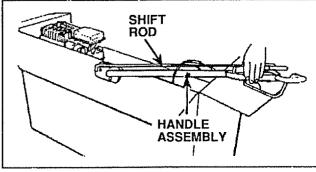


FIGURE 2

- Cut down right hand front and right hand rear corners of Carton, lay side carton wall down.
- · Remove packing material from Handle Assembly.
- · Separate Shift Rod from Handle Assembly.

INSTALL HANDLE

 Insert one Handle Lock (with teeth facing OUTWARD) in Gearcase Notch (Fig. 3). (Apply grease on smooth side of Handle Lock to aid in keeping Lock in place until Handle is lowered into position).

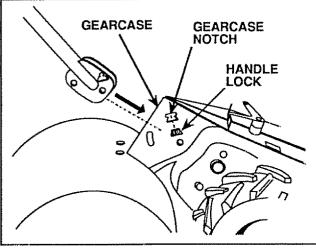
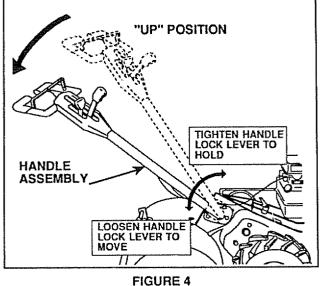
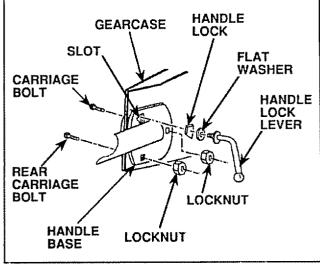


FIGURE 3

 Grasp Handle Assembly. Hold in "UP" position (Fig. 4). Be sure Handle Lock remains in Gearcase Notch. Slide Handle Assembly onto Gearcase.



- FIGURE 4
- Rotate Handle Assembly down to install two Carriage Bolts and Lock Nuts. Insert rear Carriage Bolt (Fig. 5) first, with head of Bolt on L.H. side of Tiller. Lower the Handle Assembly. Tighten Bolts so Handle moves with some resistance.
- Insert second Handle Lock (with teeth INWARD) in the slot-of the Handle Base (Fig. 5).
- Place Flat Washer on threaded end of Handle Lock Lever.
- Insert Handle Lock Lever through Handle Base and Gearcase.
- With Handle Assembly in lowest position, securely tighten Handle Lock Lever by rotating clockwise (~). Leaving Handle Assembly in lowest position will make it easier to remove Tiller from Carton.





ASSEMBLY

CONNECT SHIFT ROD

- Insert one end of Shift Rod (Fig 6) into hole of Shift Lever Indicator.
- Swing Shift Rod to the right side of Tiller and insert one of two Hairpin Clips through hole of Shift Rod.

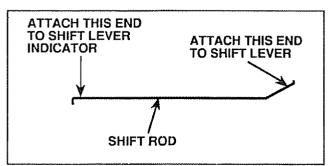
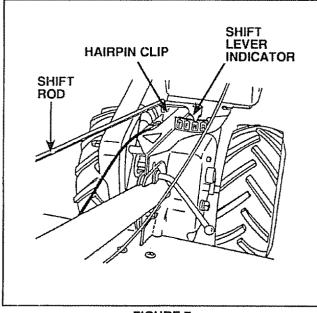


FIGURE 6





- Insert other end of Shift Rod into hole in Shift Lever (Fig. 8).
- Insert second Hairpin Clip through hole of Shift Rod.

REMOVE TILLER FROM CRATE

- Make sure Shift Lever Indicator (Fig. 7) is in "N" position.
- Tilt Tiller forward by lifting Handle. Separate cardboard cover from leveling shield.
- Rotate Tiller Handle to the right and pull Tiller out of Carton.

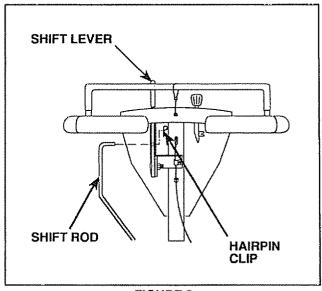


FIGURE 8

TIRE PRESSURE

Reduce Tire pressure to 20 PSI (Tires were overinflated for shipping purposes). If Tire pressures are not equal, Tiller will pull to one side

CABLE CLIP

Insert Plastic Cable Clip into hole on the back of Handle Column. Push Cables into Clip (Fig. 9).

ADJUSTMENTS

Refer to Service and Adjustments Section (page 17) to adjust Handle height.

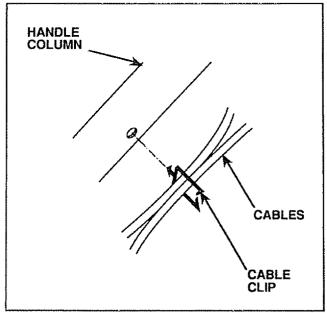


FIGURE 9

KNOW YOUR TILLER

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TILLER.

Compare the illustrations with your Tiller to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

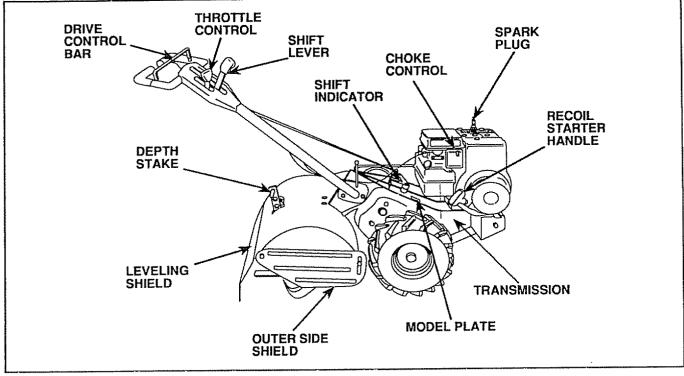


FIGURE 10

MEETS ANSI SAFETY REQUIREMENTS

Sears Rear Tine Tillers conform to the safety standards of the American National Standards Institute (Reference ANSI/0PEI B71.8-1986 American National Standard for outdoor power equipment - walk-behind powered rotary tillers - safety specifications).

DRIVE CONTROL BAR - is used to engage Tiller. THROTTLE CONTROL - is used to control engine speed. SHIFT LEVER - is used to shift transmission into different gears.

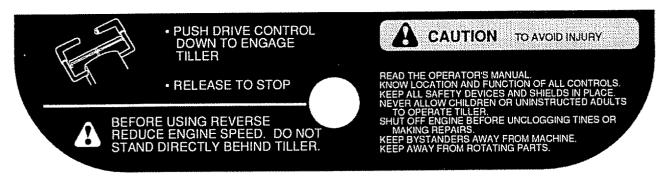
SHIFT LEVER INDICATOR - shows which gear the Tiller is currently in.

CHOKE CONTROL - is used when starting a cold Engine. **DEPTH STAKE** - is used to set the depth at which the Tiller will dig.

LEVELING SHIELD - smooths tilled ground behind Tiller. **OUTER SIDE SHIELD -** Protects small plants from being buried.

SAFETY DECAL

The decat shown full size below is located on the handle of your Tiller.



WEAR YOUR
SAFETY GLASSES
FORESIGHT IS BETTER THAN NO SIGHT

The operation of any Tiller can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before starting your Tiller and while tilling. We recommend Wide Vision Safety Mask for over the spectacles or standard safety glasses, available at Sears Retail or Catalog Stores.

HOW TO USE YOUR TILLER

Know how to operate all controls before adding fuel and oil or attempting to start Engine. (To stop Engine place Throttle Control in "STOP" position.)

TINE OPERATION - WITH WHEEL DRIVE

- Always release Drive Control Bar before moving Shift Lever into another position.
- Tine movement is achieved by moving Shift Lever to "T" position and engaging Drive Control Bar.

FORWARD - WHEELS ONLY / TINES STOPPED

 Release Drive Control Bar and move Shift Lever Indicator to "F" position. Engage Drive Control Bar and Tiller will move forward.

REVERSE - WHEELS ONLY / TINES STOPPED

- DO NOT STAND DIRECTLY BEHIND TILLER.
- · Release the Drive Control Bar.
- · Move Throttle Control to "SLOW" position.
- · Move Shift Lever Indicator to "R" position.
- Hold Drive Control Bar against the Handle (Fig. 11) to start Tiller movement.

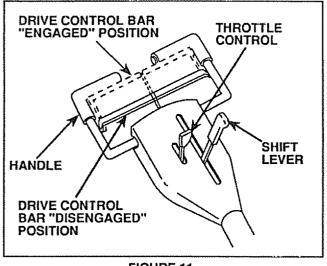
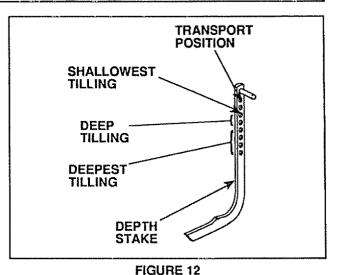


FIGURE 11

DEPTH STAKE

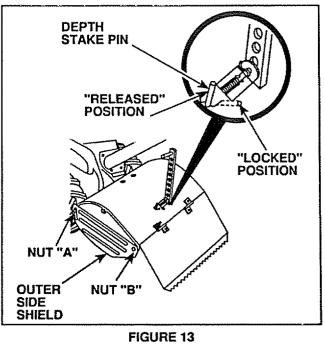
The Depth Stake can be raised or lowered to allow you more versatile tilling and cultivating, or to more easily transport your tiller (Fig. 12).



TILLING

• Release Depth Stake Pin (Fig. 13). Pull the Depth Stake up for increased tilling depth. Place Depth Stake Pin in hole of Depth Stake to lock in position.

- Place Shift Lever Indicator in the "T" position.
- Hold the Drive Control Bar against the Handle to start tilling movement. Tines and Wheels will both turn.
- Move Throttle Control to "FAST" position for deep tilling. To cultivate, Throttle Control can be set at any desired speed, depending on how fast or slow you wish to cultivate.



STOPPING TINES AND ENGINE

- TILLER MOVEMENT AND TINES WILL STOP WHEN DRIVE CONTROL BAR IS RELEASED.
- Move Shift Lever Indicator to "N" Neutral position.
- To stop Engine, move Throttle Control to "STOP" position.

TURNING

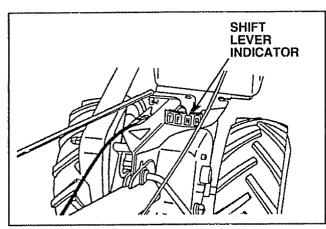
- · Release the Drive Control Bar.
- · MoveThrottle Control to "SLOW" speed.
- Place Shift Lever Indicator in the "F" Forward position. Tines will not turn.
- · Lift Handle to raise Tines out of ground.
- Swing the Handle in the opposite direction you wish to turn, being careful to keep feet and legs away from Tines.
- When you have completed your turn-around, release the Drive Control Bar and lower Handle. Place Shift Lever in "T" position and move Throttle Control to desired speed. To begin tilling, hold Drive Control Bar against the Handle.

OUTER SIDE SHIELDS

The front of the Outer Side Shields are slotted so that they can be raised for deep tilling and lowered for shallow tilling to protect small plants from being buried. Loosen Nut "A" in slot and Nut "B" (Fig. 13). Move Shield to desired position (both sides). Retighten nuts.

TRANSPORTING

- Release the Depth Stake Pin. Move the Depth Stake down to the top hole for transporting the Tiller. Place Depth Stake Pin in hole of Depth Stake to lock in position. This prevents Tines from scuffing the ground.
- Place Shift Lever Indicator (Fig. 14) in "F" position for transporting.





- Hold the Drive Control Bar against the Handle to start Tiller Movement. Tines will not turn.
- Move Throttle Control to desired speed before starting Engine.
- CAUTION: PRACTICE THE ABOVE PROCEDURES SEVERAL TIMES BEFORE FILLING EN-GINE WITH FUEL AND OIL.



BEFORE OPERATING YOUR TILLER FOR THE FIRST TIME, STUDY THIS SECTION AND THE "RULES FOR SAFE OPERATION" ON PAGE 2.

ALWAYS RELEASE DRIVE CONTROL BAR BEFORE MOVING SHIFT LEVER INTO ANOTHER POSITION.

DON'T BACK YOURSELF INTO A SOLID OBSTRUCTION SUCH AS A TREE, FENCE, ETC.

BEFORE STARTING ENGINE

CHECK ENGINE OIL LEVEL

- CAUTION: BE VERY CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHECK-ING OR ADDING OIL OR FUEL. USE CLEAN 30 OR 10W-30 WEIGHT OIL AND STORE IN APPROVED, CLEAN, COVERED CONTAINERS. (DO NOT USE PRESSUR-IZED STARTING FLUID AS SEVERE IN-TERNAL DAMAGE MAY OCCUR DUE TO LOSS OF LUBRICATION).
- · With Engine level, remove Oil Filler Plug (Fig. 15).
- Engine oil should be to point of almost overflowing. Engine oil capacity is about 1-1/4 pints (20 ounces).

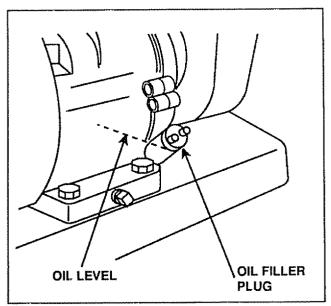


FIGURE 15

FILL FUEL TANK

 To fill Fuel Tank (Fig. 16), use fresh, clean regular unleaded automotive gasoline. Capacity is about 2 guarts.



FILL TO WITHIN 1/2 INCH OF TOP OF FUEL TANK TO PREVENT SPILLS AND TO ALLOW FOR FUEL EXPAN-SION. IF GASOLINE IS ACCIDEN-TALLY SPILLED, MOVE MACHINE AWAY FROM AREA OF SPILL. AVOID CREATING ANY SOURCE OF IGNITION UNTIL GASOLINE VAPORS HAVE DISAPPEARED.

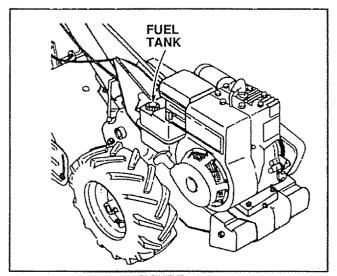


FIGURE 16

CAUTION: EXPERIENCE INDICATES THAT ALCO-HOL BLENDED FUELS (CALLED GASO-HOL OR USING ETHANOL OR METHA-NOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMA-TION 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



KEEP THE DRIVE CONTROL BAR IN "DISENGAGED" POSITION WHEN STARTING ENGINE.

- Make sure Spark Plug Wire is properly connected.
- · Move the Shift Lever Indicator to "N" Neutral position .
- Place Throttle Control in "FAST" position.
- Place Choke Control in "CHOKE" position if the Engine is cold. A warm Engine may not require choking to start.
- Grasp Starter Handle with one hand and grasp the Tiller Handle with other hand. Pull Rope out slowly until Engine reaches start of Compression Cycle (Rope will pull slightly harder at this point).
- Pull Rope with a rapid, continuous, full arm stroke. Keep a firm grip on Starter Handle and let Rope rewind slowly. Do not let Starter Handle snap back against Starter.
- When Engine starts, place Choke Control on Engine halfway between "CHOKE" and "RUN" positions and then to "RUN" position as Engine warms up.
- Move Throttle Control halfway between "FAST" and "STOP" position for a few minutes to warm up.

NOTE: In order to idle smoothly, a new Engine may require 3 to 5 minutes running time above slow idle speed. Idle speed has been adjusted to be correct after this break-in period.

TILLING/CULTIVATING TIPS

TILLING

- Tilling is digging into, turning over, and breaking up packed soil before planting. Loose, unpacked soil helps root growth. Best tilling depth is 4" to 6". A Tiller will also clear the soil of unwanted vegetation. The decomposition of this vegetable matter enriches the soil. Depending on the climate (rainfall and wind), it may be advisable to till the soil at the end of the growing season to further condition the soil.
- Soil conditions are important for proper tilling. Tines will not readily penetrate dry, hard soil which may contribute to excessive bounce and difficult handling of your Tiller. Hard soil should be moistened before tilling; however, extremely wet soil will "ball-up" or clump during tilling. Wait until the soil is less wet in order to achieve the best results. When tilling in the fall, remove vines and long grass to prevent them from wrapping around the Tine Shaft and slowing your tilling operation.

• For easier handling of your Tiller, leave about 8 inches of untilled soil between the first and second tilling passes. The third pass will be between the first and second (Fig. 17).

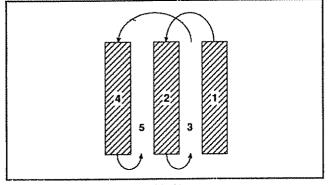


FIGURE 17

 Do not lean on the Handle. This takes weight off the Wheels and reduces traction. To get through a really tough section of sod or hard ground, apply upward pressure on Handle or lower the Depth Stake.

CULTIVATING

Cultivating is destroying the weeds between rows to prevent them from robbing nourishment and moisture from the plants. At the same time, breaking up the upper layer of soil crust will help retain moisture in the soil. Best digging depth is 1" to 3". Lower the Outer Side Shields to protect small plants from being buried.

• Cultivate up and down the rows at a speed which will allow Tines to uproot weeds and leave the ground in rough condition, promoting no further growth of weeds and grass (Fig. 18).

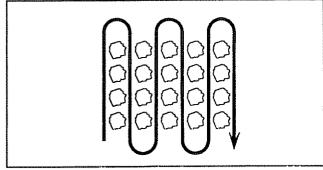


FIGURE 18

ADJUST WHEELS FOR CULTIVATING

- Place blocks under right hand side of Tiller and remove Hairpin Clip and Retainer Pin from right hand Wheel (Fig. 19).
- Move Wheel outward and approximately 1 inch until hole in Inner Wheel Hub lines up with inner hole in Axle.

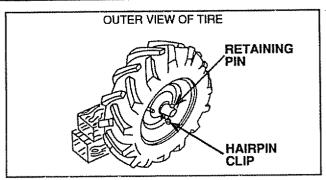


FIGURE 19

- Replace Retainer Pin and Hairpin Clip on inside of Wheel (Fig. 20) and remove blocks.
- Repeat preceding steps on left hand side.

NOTE: In extremely rough conditions and while cultivating, the Wheels should be moved outward on the Axle for increased stability.

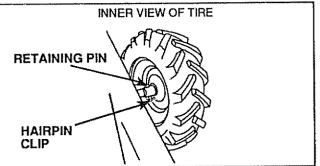


FIGURE 20

WINTER OPERATION (UNDER 32°F)

ENGINE LUBRICATION

- Engine oil must be changed before the air temperature drops below 32°F. Drain the Engine oil when Tiller Engine is at operating temperature.
- By refilling the Engine with 5W30 oil you will promote easier starting.

NOTE: Be sure to change Engine oil back to S.A.E. 30 or 10W30 (SD, SE, or SF) for spring Tilling.

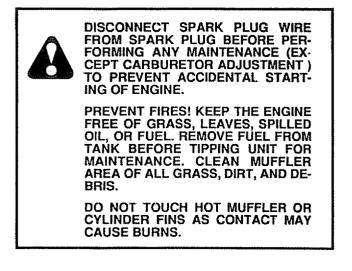
FUEL

Use fresh, clean, regular unleaded automotive gasoline. Capacity is about 2 quarts.

COLD WEATHER STARTING HINTS

- · Be sure to use the proper oil and gasoline.
- Keep Drive Control Bar in "DISENGAGED" position
 when starting the Engine.
- Set Throttle Control at medium to fast position and use full Choke for starting. Slowly move Choke Control to "RUN" position as Engine warms up.

MAINTENANCE



COOLING SYSTEM

Your Engine is air cooled. For proper Engine performance and long life KEEP YOUR ENGINE CLEAN.

- Clean Air Screen (Fig. 21) frequently using a stiff bristled brush.
- · Remove Blower Housing and clean as necessary.
- Keep Cylinder Fins free of dirt and chaff.

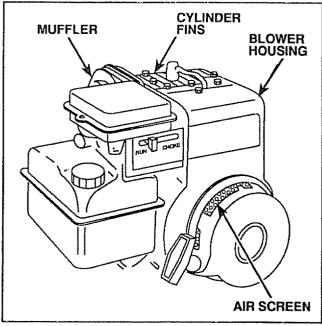


FIGURE 21

AIR CLEANER

Replace Air Cleaner Cartridge every twenty-five hours, more often if Engine is used in very dusty conditions:

 Loosen Air Cleaner Screws, one on each side of Cover (Fig. 22).

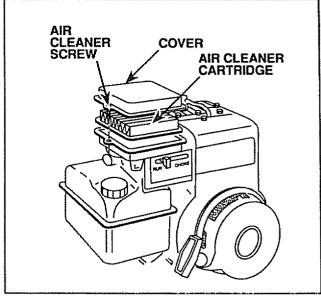


FIGURE 22

- Remove Air Cleaner Cover.
- Carefully remove Air Cleaner Cartridge. Be careful. Do not allow dirt or debris to fall into Carburetor.
- Install new Air Cleaner Cartridge. Clean and replace Cover. Tighten Screws securely.

MUFFLER

Do not operate Tiller without Muffler (Fig. 21). Do not tamper with exhaust system. Damaged Mufflers or Spark Arresters could create a fire hazard. Inspect periodically and replace if necessary. If your Engine is equipped with a Spark Arrester Screen Assembly, remove every 50 hours for cleaning and inspection. Replace if damaged.

SPARK PLUG

- The Spark Plug should be changed every 50 hours of operation or at the beginning of every tilling season.
- Set gap at .030". Order Spark Plug listed in the Repair Parts Section of this Manual.



SPARKING CAN OCCUR IF SPARK PLUG WIRE TERMINAL DOES NOT FIT FIRMLY ON SPARK PLUG. RE-FORM TERMINAL IF NECESSARY.

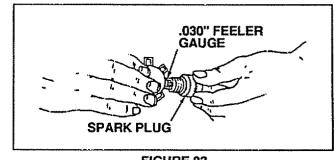


FIGURE 23

MAINTENANCE

ENGINE LUBRICATION

Your four cycle Engine will normally consume some oil, therefore check Engine oil level regularly—approximately every five hours of operation and before each usage. Stop Engine and wait several minutes before checking oil level. With Engine level the oil must be even with oil fill (Fig. 24). Change Engine oil after the first two hours of operation and every twenty five hours thereafter or at the beginning of every tilling season.

- · Drain oil while Engine is warm.
- Remove Oil Drain Plug (Fig. 24)
- · Tip Tiller forward and catch oil in a suitable container.
- · When Engine is drained of all oil, replace Oil Drain Plug.
- · Refill with fresh SAE 30 or SAE 10W-30 weight oil.

OIL DRAIN PLUG OIL UG OIL LEVEL OIL FILLER PLUG

FIGURE 24

TRANSMISSION

Your Transmission is sealed and will only require lubrication if serviced.

FINISH

Keep your Tiller finish and Wheels free of gasoline, oil, etc. Protect painted surfaces with automotive type wax.

SERVICE RECOMMENDATIONS

LUBRICATION CHART - OIL PIVOT POINTS

USE SAE 30 OIL

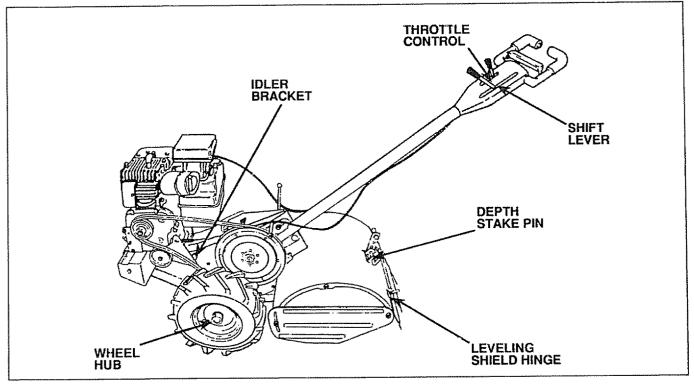


FIGURE 25

MAINTENANCE CHECK LIST			2	41.5	7	2	327	33	/						
SERVICE RECORD				S				٤/							
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		ACE NUME		ALL HOLES HOLES	EAV 5 HO	Ser 22 12		Sunny	aramatin	SE	RV	ICE	DAT	ES	
Check Engine Oil Level	11	V		V						L					
Change Engine Oil	15				\mathbf{V}										
Oil Pivot points	16			V						L		_			
Inspect Spark Arrester Muffler	14					V									
Inspect Air Screen	14	V										L			
Clean Air Cleaner	14				V										
Clean Engine Cylinder Fins	14														
Replace Spark Plug	14					V									

16

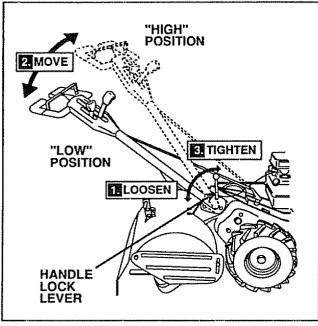
SERVICE AND ADJUSTMENTS

POSITION HANDLE

Select Handle height suitable for you and your tilling conditions. Handle height will change when Tiller digs into the soil.

TO ADJUST HANDLE:

- · First loosen Handle Lock Lever (Fig. 26).
- Handle can be positioned at different settings between "HIGH" and "LOW" positions.
- · Retighten Handle Lock Lever securely after adjusting.





TIRE CARE



WHEN MOUNTING TIRES, UNLESS BEADS ARE SEATED, OVERINFLA-TION CAN CAUSE AN EXPLOSION.

- Maintain 20 pounds of Tire pressure. If Tire pressures are not equal, Tiller will pull to one side.
- Keep Tires free of gasoline or oil which can damage rubber.

WHEEL REMOVAL

To remove Wheel and Tire for repair:

- Place blocks under the Transmission to keep Tiller from tipping.
- Remove Hairpin Clip and Retaining Pin from Wheel (Fig. 27).
- Remove Wheel and Tire.
- · Repair Tire and reassemble.

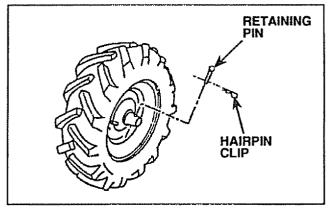


FIGURE 27

SERVICE AND ADJUSTMENTS

GROUND DRIVE BELT REPLACEMENT

- Remove Hairpin Clip and Retaining Pin from Hub of left hand Wheel. Pull Wheel out from Tiller about 1 inch.
- Remove Belt Guard by removing two (2) Cap Nuts, one (1) Hex Nut and three (3) Washers so that the Belt Guard can slide straight out away from the Engine (Fig. 28).

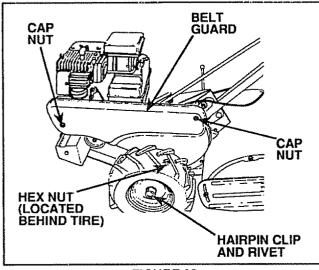


FIGURE 28

- Loosen Belt Guides "A" and "B", and also Nuts "C" and "D" (Fig. 29).
- Remove old Belt by slipping from Engine Pulley first.
- Place Belt in groove of Transmission Pulley and into groove of Engine Pulley, BELT MUST BE IN GROOVE ON TOP OF IDLER PULLEY, NOTE POSITION OF BELT TO GUIDES.
- Tighten Belt Guides "A" and "B" and Nuts "C" and "D".
- Replace Belt Guard, Washers, Cap Nuts, and Hex Nut.
- Reposition Wheel and replace Retaining Pin and Hairpin Clip.

GROUND DRIVE BELT ADJUSTMENT

For proper belt tension, the Extension Spring should have about 5/8 inch stretch with Drive Control Bar in "EN-GAGED" position. This tension can be obtained as follows:

- Loosen Cable Clip Screw securing the Drive Control Cable (Fig. 29 - INSET A).
- Slide Cable forward for less tension and rearward for more tension until about 5/8 inch stretch is obtained while the Drive Control Bar is engaged (Fig. 29 -INSET B).
- · Tighten Cable Clip Screw securely.

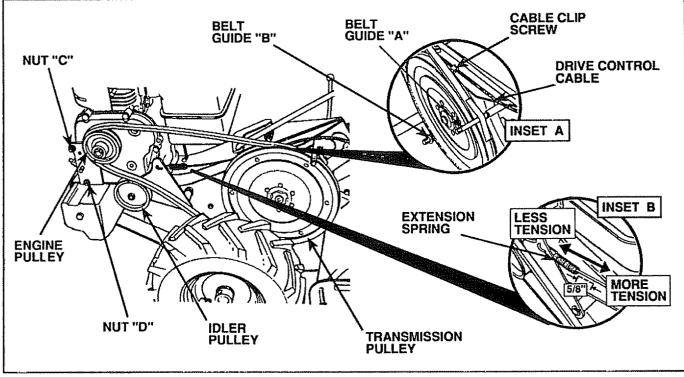


FIGURE 29

SERVICE AND ADJUSTMENT

TINE REPLACEMENT



STOP THE ENGINE AND REMOVE THE SPARK PLUG WIRE FROM THE SPARK PLUG BEFORE CLEANING OUT THE TINES BY HAND. USE CAU-TION : TINES ARE SHARP.

A badly worn Tine causes your Tiller to work harder and dig more shallow. Most important, worn Tines cannot chop and shred organic matter as effectively nor bury it as deeply as good Tines. A Tine this worn needs to be replaced (Fig. 30).

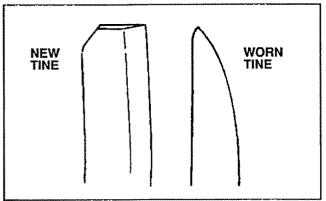


FIGURE 30

• To maintain the superb tilling performance of this machine the Tines should be checked for sharpness, wear, and bending, particularly the Tines which are next to the Transmission. If the gap between the Tines exceeds 3-1/2 inches, they should be replaced or straightened as necessary (Fig. 31).

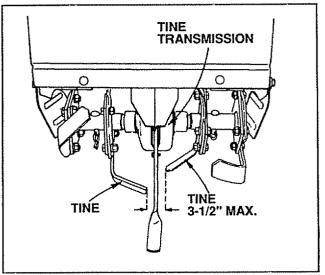


FIGURE 31

New Tines should be assembled as shown below (Fig. 32). Sharpened Tine edges will rotate rearward from above.

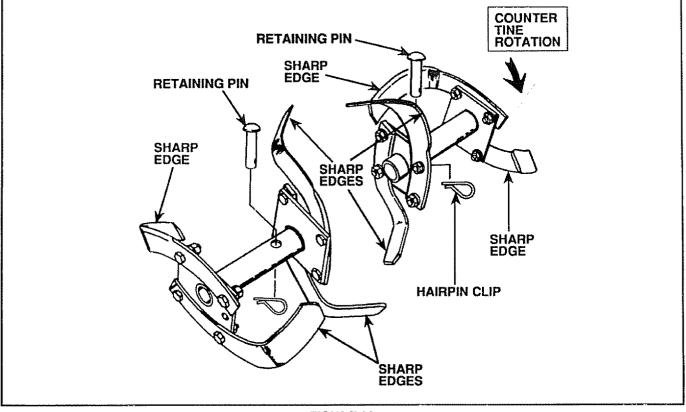


FIGURE 32

SERVICE AND ADJUSTMENT

CARBURETOR

NOTE: A dirty Air Cleaner will cause the Engine to run rough. Be sure Air Cleaner is clean before adjustments. Factory settings are satisfactory for most applications and conditions. If adjustments are needed, proceed as follows:

Never attempt to change maximum Engine speed. This is preset at the factory and should only be changed by a qualified service technician who has the necessary equipment. The Carburetor mixture may need re-adjusting if Engine lacks power or does not idle properly.

MIXTURE ADJUSTMENT

- Open Needle Valve 1-1/2 turns counterclockwise (). This initial adjustment will permit the Engine to be started and warmed up prior to final adjustment.
- Start the Engine. Allow Engine to warm up for about 5 minutes before proceeding.
- Place Throttle Control in "IDLE" position.
- Turn Needle Valve in until Engine slows (clockwise (~) lean mixture).

- Next turn Needle Valve out past smooth operating point until Engine runs unevenly (counterclockwise ()) rich mixture).
- Now turn Needle Valve to the midpoint between rich and lean so the Engine runs smoothly.

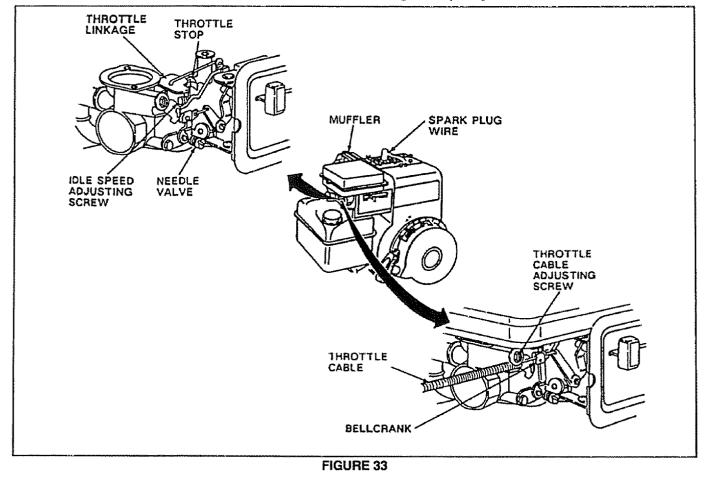
IDLE RPM ADJUSTMENT

CHECKING ADJUSTMENT

 Test the Engine by tilling. If Engine dies out, it usually indicates that the mixture is slightly lean and it may be necessary to turn the Needle Valve counterclockwise (Image) slightly to provide a richer mixture. This richer mixture may cause a slight unevenness in idling.

THROTTLE CONTROL CABLE ADJUSTMENT

- CAUTION: NEVER TAMPER WITH THE ENGINE GOV-ERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED.
- Loosen Throttle Cable Adjusting Screw.
- With Throttle Control in "FAST" position and Cable connected to Bellcrank, pull Cable backward through Screw until Bellcrank is as far rearward as it will go.
- Tighten Adjusting Screw.



STORAGE

STORAGE

Keep your Tiller in a weatherproof, dry building. To avoid Engine problems, the fuel system should be emptied before storage of 30 days or longer.

- Drain Fuel Tank; run Engine until gasoline in Carburetor is used.
- While Engine is still warm, drain oil from Engine. Refill with fresh oil.
- Remove Spark Plug; pour one half ounce of clean engine oil into cylinder. Pull Starter Handle slowly several times to distribute oil. Replace Spark Plug.
- Clean entire Tiller, especially Cylinder Fins, Blower Housing and Air Screen. Tighten all bolts and nuts.

Gasoline stored for several months will lose its volatility (ability to burn effectively); therefore, always use up gaso-

line at the end of the season. Do not store, spill, or use gasoline near an open flame or devices such as a stove, furnace, or water heater which utilize a pilot light or devices that can create a spark.

CAUTION: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSEN-TIAL FUEL SYSTEM PARTS SUCH AS THE 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 STOR-AGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

TROUBLE SHOOTING

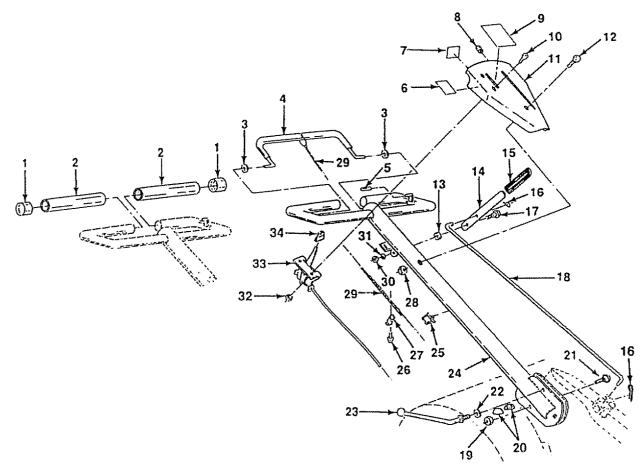
PROBLEM:							
Probable Cause 🖝	Possible Remedy						
WILL NOT START OR HARD TO START:							
No gasoline in Fuel Tank 🖛	Fill Tank with gasoline						
Throttie Control not set properly Place Throttle Control in "FAST" position							
Choked improperly, flooded Engine #	Move Choke Control to "RUN" position or place Throttle Control in "FAST" position and pull Starter several times to clear out gas						
Clogged Fuel Tank 🖛	Remove and clean						
Dirty Air Cleaner Cartridge 🖛	Remove and clean or replace						
Spark Plug Dirty or improper gap 🖝	Clean, adjust gap or replace						
Water in gasoline or old fuel	Drain Fuel Tank and Carburetor, use fresh fuel and						
	replace Spark Plug						
Improper Carburetor adjustment 🕿	Make necessary adjustments						
ENGINE MIS	ENGINE MISSES OR LACKS POWER:						
Engine overloaded 🖛	Set Depth Stake for shallower tilling						
Clogged Fuel Tank 🖛	Remove and clean						
Partially plugged Air Cleaner 🖛	Remove and clean or replace						
Improper Carburetor adjustment 🖛	Make necessary adjustments						
Dirty Air Screen 🖛	Clean Air Screen						
Spark Plug dirty, improper gap, or wrong type 🖛	Replace Spark Plug and adjust gap						
Poor compression 🖛	Major Engine Overhaul						
Oil in gasoline 🖝	Drain and refill Gas Tank and Carburetor						
ENGI	NE OVERHEATS:						
Dirty Air Screen 🖛	Clean Air Screen						
Low oil level or dirty oil 🖛	Add or change oil						
Dirty Engine 🖛	Clean Cylinder Fins, Air Screen, and Muffler area						
Partially Plugged Muffler	Remove and clean Muffler						
Improper Carburetor adjustment 🖛	Make necessary adjustments						
SOIL BAI	LLS UP OR CLUMPS:						
Ground too wet 🖝	Wait for more favorable soil conditions						

SERVICE NOTES

į

REPAIR PARTS 4 H.P. CRAFTSMAN TILLER - MODEL NUMBER 917.299642

HANDLE ASSEMBLY



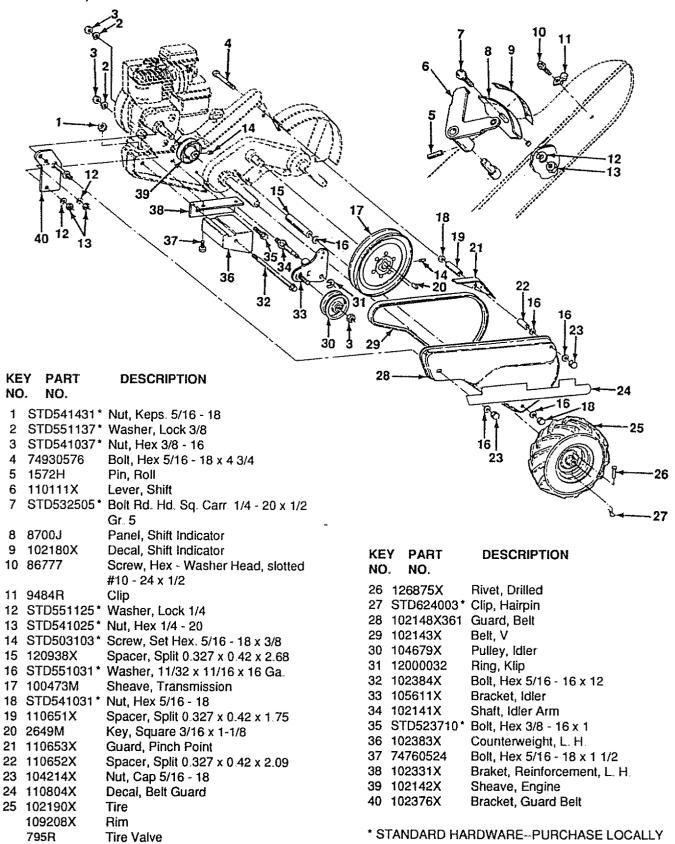
KE NO		DESCRIPTION	KE' NO		DESCRIPTION
1	110707X	Cap, Sleeve	19	STD541437*	Nut, Centerlock - 3/8 - 16
2	110674X	Grip, Handle	20	109229X	Lock, Handle
3	110673X	Grommet, Handle	21	STD533710*	Bolt, Rd. Hd. Sq. Neck Carr. 3/8 - 16 x
4	110672X	Bar, Drive Control Assembly			1 Gr 5.
5	6712J	Cap, Vinyl	22	19131611	Washer, 13/32 x 1 x 11 Ga.
6	120431X	Decal, Hand Placement	23	109228X	Lever, Lock - Handle
7	121859X	Decal, Caution - Clutch	24	121213X	Handle, Assemble
8	110641X	Bushing, Split	25	121145X	Clip, Plastic Cable
9	110718X	Decal, Control Panel	26	86777	Screw, Hex Washer Hd Slt. #10-24 x
10	STD511005*	Screw, Mach. Pan Head. C.R. #10-24			1/2
		x 1/2	27	9484R	Clip
11	110548X	Panel, Control	28	73970500	Nut, Lock Hex. Flange
12	STD533125*	Bolt, Carr 5/16 - 18 UNC x 2-3/8 Gr5	29	110675X	Clutch, Cable
13	109313X	Grommet, Rubber	30	STD541025*	Nut, Hex 1/4-20
14	110741X	Handle, Shift	31	STD551125*	Washer, Lock 1/4
15	110646X	Handle, Grip	32	STD541462*	Nut, Keps. #10-24
16	STD624003*	Clip, Hairpin	33	110670X	Throttle, Control
	81328	Bolt, Shoulder	34	110680X	Knob, Control
18	110702X	Rod, Shift	**	124340XOE	Owners, Manual

* STANDARD HARDWARE--PURCHASE LOCALLY

İ

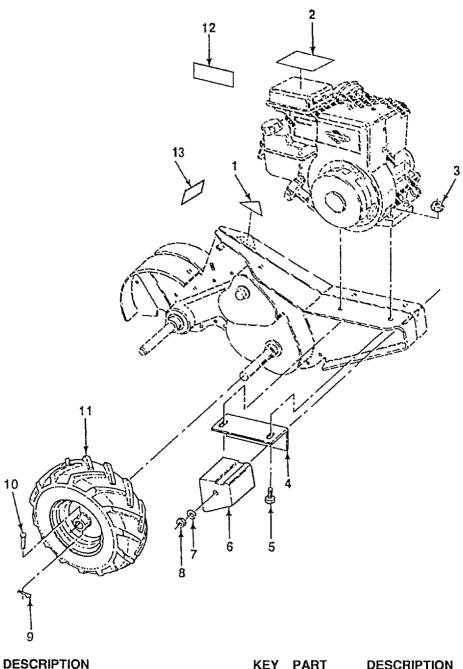
4 H.P. CRAFTSMAN TILLER - MODEL NUMBER 917.299642

MAINFRAME, LEFT SIDE



4 H.P. CRAFTSMAN TILLER - MODEL NUMBER 917.299642

MAINFRAME, RIGHT SIDE



KEY PART NO. NO.

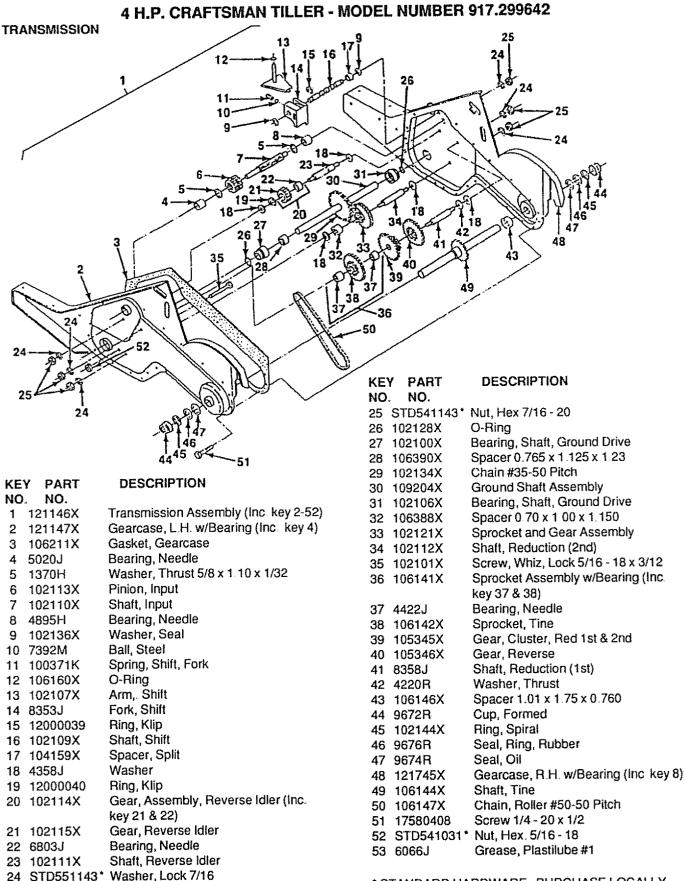
- 1 ---Decal, O, P.E.I.
- 2 STD541431* Decal, Operations and Lubrication
- 3 73510500 Nut, Keps 5/16 - 18
- 4 102332X **Bracket Reinforcment**
- 5 74760524 Bolt, Hex 5/16 - 18 x 1-1/2
- 6 102173X Counter Weight, R.H.
- 7 STD551137* Washer, Lock 3/8

KEY PART DESCRIPTION NO. NO.

- 8 STD541037* Nut Hex 3/8 16
- 9 STD624003* Clip, Hairpin
- Rivet, Drilled 10 102841X
- 11 102190X Tire 109208X Rim Tire Valve 795R Decal, Engine 12 123080X Decal, U.S.A. 13 750211

* STANDARD HARDWARE--PURCHASE LOCALLY

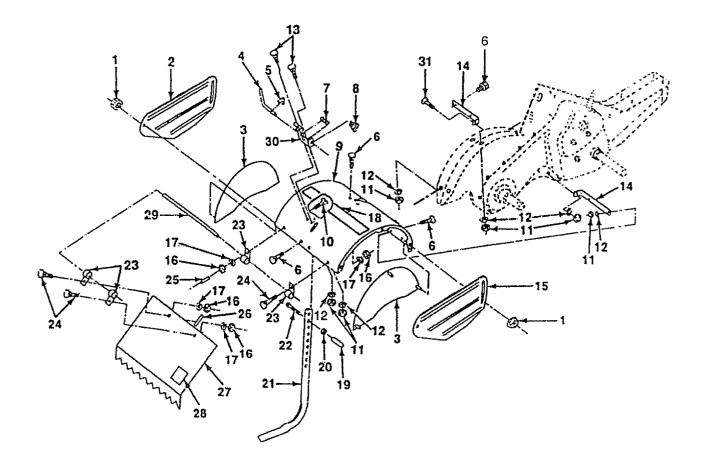
25



* STANDARD HARDWARE--PURCHASE LOCALLY

4 H.P. CRAFTSMAN TILLER - MODEL NUMBER 917.299642

TINE SHIELD

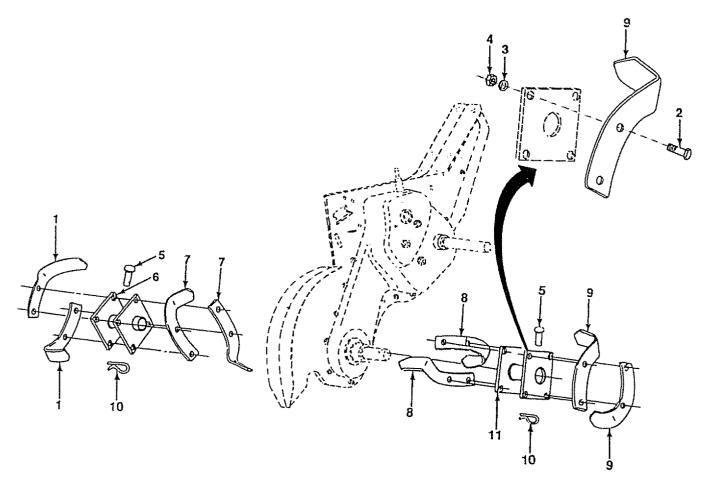


KE NC		DESCRIPTION	KE' NO	•	PART NO.	DESCRIPTION
1	98000129	Nut, Flange 5/16 - 18	17	ST	D551125*	Washer, Lock 1/4
2	104086X361	Shield, Side outer L. H.	18	11	0805X	Decal, Tine Shield
3	104085X361	Shield Side	19	10	2701X	Grip
4	8393J	Pin, Stake Depth	20	ST	D541037	Nut, Hex 3/8 - 16
5		Ring, Klip	21	10	2156X	Stake, Depth
6	STD533107*	Bolt, Carriage 5/16 - 18 x 3/4 Gr 5	22	74	930632	Bolt, Hex 3/8 - 16 x 2
7	8394J	Spring	23	44	40J	Hinge
8	109230X	Spring, Depth Stake	24	ST	D532505*	Bolt, Carriage 1/4 - 20 x 1/2 Gr. 5
9		Shield, Tine	25	67	12J	Cap, Vinyl
10		Bolt, Carriage 1/4 - 20 x 1 - 1/4 Gr. 5	26	10	9227X	Pad, Idler
11		Nut, Hex 5/16 - 18	27	10	2686X361	Shield, Leveling
		Washer, Lock 5/16	28	12	0075X	Decal, Warning
		Bolt, Carriage 5/16 - 18 x 1	29	12	0588X	Pin, Hinge
14		Bracket, Shield Tine	30	83		Bracket, Latch
15	104101X361	Shield, Side Outer R.H.	31	72		Bolt, Carriage 5/16 - 18 UNC
16	STD541025*	Nut Hex 1/4 - 20				x 1 1/4 Gr 5

* STANDARD HARDWARE--PURCHASE LOCALLY

4 H.P. CRAFTSMAN TILLER - MODEL NUMBER 917.299642

TINES



KE NO		DESCRIPTION	KE NO		DESCRIPTION
1	4459J	Tine L. H. Outer	7	6554J	Tine L. H. Inner
2	74610616	Bolt, Hex 3/8 - 24 x 1	8	6555J	Tine, R. H. Inner
3	STD551137*	Washer, Lock 3/8	9	4460J	Tine, R. H.Outer
4	73610600	Nut, Hex 3/8 - 24	10	STD624008*	Clip, Hairpin
5	4929H	Retaining Pin	11	102172X	Hub, Assembly R. H.
6	102170X	Hub, Assembly L. H.			
			* S	TANDARD HA	RDWAREPURCHASE LOCALLY

4 H.P. CRAFTSMAN TILLER - MODEL NUMBER 917.299642 ENGINE - BRIGGS & STRATTON-- MODEL NUMBER 112202, TYPE NUMBER 0847-01 ENGINE, RIGHT SIDE

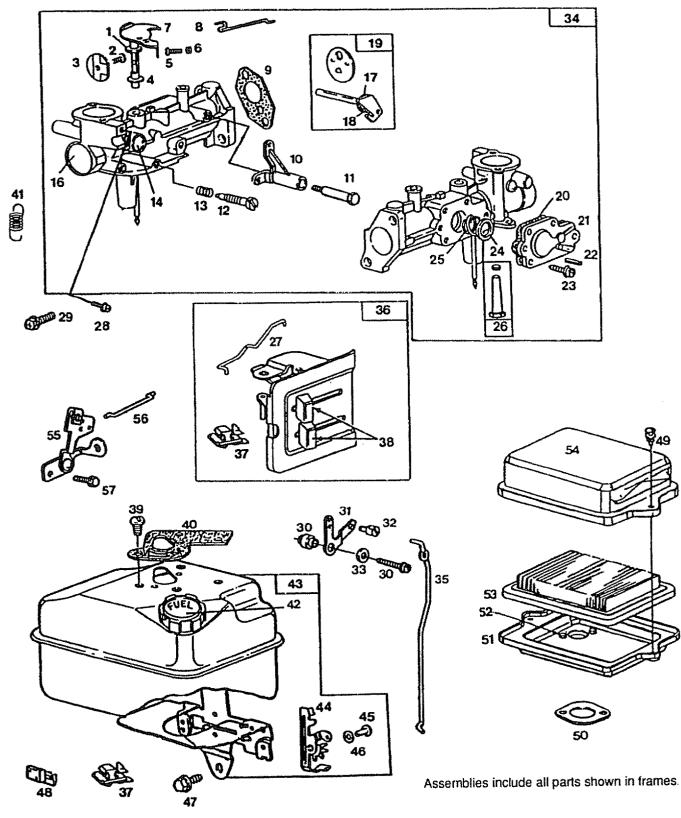
50 39 22 3-0=2 37 4 5 38 7 A 12 32 16 a 31 **∞**013 25 30 27 F 4. A Δ2 * REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL. 17 00 Assemblies include all parts shown in frames. 20

KE NC		DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
2	93490	Screw, Rotating Screen Mounting Sem	22 220865 25 393862	Washer, Spring Seal, Oil
З	222698	Key, Flywheel	26 293708	Bushing, Cylinder
4	399671	Clutch Assembly, Rewind Starter		Note: Requires special tools for
5	63770	Ball, Clutch		installation.
6	19069	Puller, Flywheel (optional	27 395970	Cylinder Assembly
		Accessory)	30 490828	Starter Assembly, Rewind
7	394506	Washer, Clutch Retainer	31 280439	Pulley, Rewind Starter
8	298436	Ratchet, Rewind Starter	32 490179	Spring, Rewind Starter
9	394897	Housing, Starter Clutch	37 396892	Insert, Starter Grip
10	394431	Flywheel, Magneto	38 66734	Rope, Starter (48 - 5/8")
12	221661	Screen, Rotating	39 393152	Grip, Starter Rope
13	94153	Screw, Sem	42 223087	Guard, Flywheel
16	397316	Armature, Magneto	44 221798	Terminal, Ignition Cable
17 20	93381 398808		46 490817	Spacer

29

4 H.P. CRAFTSMAN TILLER - MODEL NUMBER 917.299642 ENGINE - BRIGGS & STRATTON -- MODEL NUMBER 112202, TYPE NUMBER 0847-01

ENGINE, REAR



4 H.P. CRAFTSMAN TILLER - MODEL NUMBER 917.299642 ENGINE - BRIGGS & STRATTON -- MODEL NUMBER 112202, TYPE NUMBER 0847-01

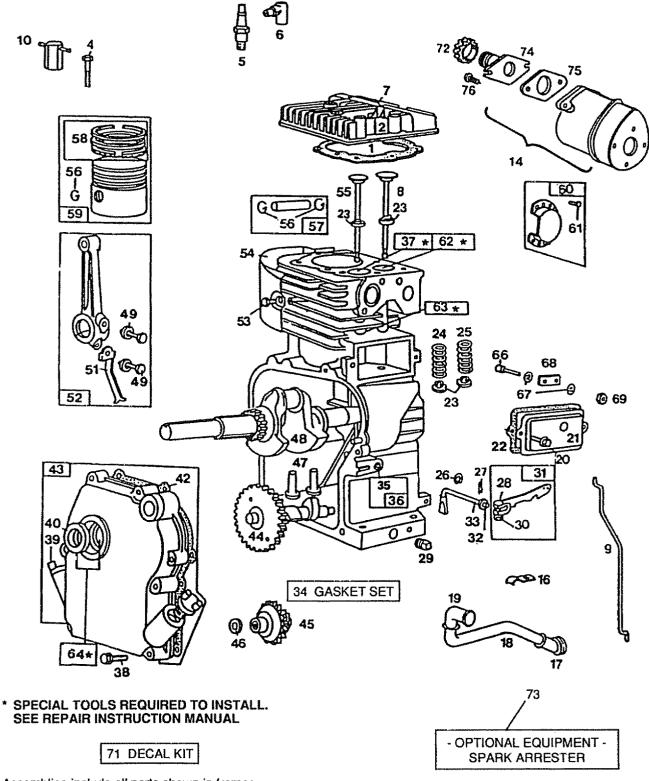
ENGINE, REAR

KE NC		DESCRIPTION	KEY NO.		DESCRIPTION
1	271853	Washer - Throttle Shaft	29	93357	Screw - Hex. Hd.
2	93499	Screw - Throttle Valve Mounting	30	490589	Screw Carb. and Cam. Lever
		Sem	31	223813	Crank - Bell
3	223793	Valve - Throttle	32	490507	Retainer - Link
4	398970	Seal - Throttle Shaft	33	220982	Washer
5	93527	Screw - Machine, Rd. Hd 5-40 x	34	492612	Carburetor Assembly
		5/8"	35	262277	Rod - Control
6	260575	Spring Throttle Adjustment	36	490648	Plate - Control
7	490048	Shaft and Lever - Throttle	37	396847	Switch - Stop[
8	262270	Link - Throttle	38	280715	Knob - Control Bracket
9	271936	Gasket - Intake Elbow Mounting (2	39	94094	Screw - Sem
		Req'd)	40	271928	Gasket - Fuel Tank Mounting
10	280720	Crank - Bell	41	262285	Spring - Governor
11	231520	Screw - Shoulder	42	490075	Cap, Fuel Tank
12	231533	Valve - Needle	43	490491	Tank, Fuel
13	26336	Spring - Needle Valve	44	223097	Level - Governor Control
14	223789	Plug - Welch	45	93491	Rivet
16	220352	Plug - Welch	46	222962	Bushing - Governor Control Level
17	270382	Washer - Foam	47 9	94408	Screw - Tank Bracket Mounting
18	221839	Washer - Brass			Sem
19	491177	Valve Group - Choke	48	280321	Gear Rack - Governor
20	270026	Diaphragm	49	490073	Screw - Air Cleaner
21	210959	Cover - Diaphragm	50 3	271935	Gasket - Air Cleaner Mounting
22	93265	Pin - Diaphragm Cover	51 /	490074	Base - Air Cleaner
23	93141	Screw - Diaphragm Cover	52 9	94018	Screw - Hex. Hd.
24	221377	Cap - Spring	53 3	399959	Filter - Air Cleaner
25	262328	Spring - Fuel Pump Diaphragm	54 2	223765	Cover - Air Cleaner
26	391813	Fuel Pipe and Clip Assembly	55 4	491577	Control. Throttle
27	262359	Link - Choke	56	262470	Link - Throttle
28	93543	Screw - Fil. Hd.	57 9	93572	Screw

r

4 H.P. CRAFTSMAN TILLER - MODEL NUMBER 917.299642 ENGINE - BRIGGS & STRATTON -- MODEL NUMBER 112202, TYPE NUMBER 0847-01

ENGINE, INTERNAL PARTS



Assemblies include all parts shown in frames.

4 H.P. CRAFTSMAN TILLER - MODEL NUMBER 917.299642

ENGINE - BRIGGS & STRATTON -- MODEL NUMBER 112202, TYPE NUMBER 0847-01

ENGINE, INTERNAL PARTS

KE NC	EY PART D. NO.	DESCRIPTION	KE NC	EY PART D. NO.	DESCRIPTION
1	270836	Gasket - Cylinder Head	45	391737	Gear - Governor
2	213141	Head - Cylinder	46	221551	Washer - Thrust
4	93111	Screw - Cylinder Head (1 - 15/16"	47	261250	Tappet - Valve
		long)	48	261416	Crankshaft
5	293918	Plug - Spark (with gasket) (1 - 1/2"		94405	Screw - Connecting Rod
		High - 37 - 42 M.M.) (Resistor type)		220670	Dipper - Connecting Rod
6	66538	Elbow - Spark Plug	52	392939	Rod Ass'y Connection
7		Cover - Cylinder Head		NOTE:	For Connecting Rod with 020"
	261233	Valve - Intake			undersize Crankpin Bearing order No.
	262278	Link - Governor		~~ . ~ ~	393710
	89838	Wrench - Spark Plug	53	93490	Screw - Cylinder Shield Mounting
	492591	Muffler - Exhaust (Lo - Tone)	- 4		Sem
	223786	Clamp - Breather Tube		223086	Shield - Cylinder
	66578	Grommet - Breather Tube		212004	Valve - Exhaust
	231527	Tube - Breather		26026	Lock - Piston Pin
	67838	Grommet - Breather Tube		391649	Pin Assembly - Piston - Standard
	93394	Screw - Breather Mounting Sem		391654	Ring Set - Std. Piston
	294178	Breather - Valve Chamber		391656	Ring Set - 010 "O.S. Piston
	27549	Gasket Valve Cover		391658	Ring Set - 020" O.S. Piston
	93312	Retainer - Valve Spring	58	391660	Ring Set - 030" O.S. Piston
	26478	Spring - Exhaust Valve		NOTE:	For Chrome Piston Ring Set Std.
	260552	Spring - Intake Valve	-		size order NO 392330
	93307	Retainer - E-Ring		391650	Piston Assembly - Std
	93306	Cotter - Hair Pin		391651	Piston Assembly010" O.S.
	92613	Bolt Governor Lever		391652	Piston Assembly020" O.S.
29	91249	Plug - Pipe, 1/4" Std. Square Head		391653	Piston Assembly030" O.S.
	NOTE:	93448 Plug - Pipe (Hex. Socket)		393760	Deflector - Exhaust
	231082	Nut - Hex - 10-24		93705	Screw - Sem
	490454	Lever Ass'y - Governor		211172	Seat - Intake Valve (Standard)
	222450	Washer - Gov. Lever	63	231348	Guide - Exhaust Valve
	231077	Crank - Governor	~ .	NOTE:	63709 Guide - Intake Valve
	397147	Gasket Set	64	293708	Bushing Assembly - Crackcase
	231079	Bushing - Governor Shaft			Cover (Includes 220538 Bushing)
	395970	Cylinder Assembly		NOTE:	Bushings require special tools for
	211291	Seat - Exhaust Valve (Standard)	~ ~	****	installation
38	93032	Screw - Crankcase Cover Mounting Sem	66	90200	Screw - Machine, Fil. Hd 8 - 32 x 1/2"
	NOTE:	93656 Stud	67	92791	Lockwasher - Shakeproof
		90832 Washer - Lock	68	66895	Insulator
39	66768	Plug - Oil Filler	69	90576	Nut - Hex 8 - 32
40	393862	Seal - Oil	71	491098	Decal (Label) Kit
42	270833	Gasket - Crankcase015" thick	72	220859	Locknut - Muffler
				396800	Spark Arrester Kit
42	270895	Gasket - Crankcase005" thick		492232	Adaptor/Muffler
42	270896			272203	Gasket Exhaust
43	394820	Cover Assembly - Crankcase	76	94153	Screw Hex Head
44	392171	Gear - Cam			

SERVICE NOTES

SERVICE NOTES

6

Download from Www.Somanuals.com. All Manuals Search And Download.

SEARS OWNERS MANUAL	CRAFTSMAN 4.0 HORSEPOWER 14 INCH TINE WIDTH COUNTER ROTATING TINES REAR TINE TILLER
MODEL NO. 917.299642	Each Tiller has its own model number. Each Engine has its own model number. The Model Number for your Tiller will be found on a plate attached to the top of the Transmission. The model number for the Engine will be found on the Blower Housing of the Engine adjacent to the Spark Plug. All parts listed herein may be ordered from any Sears, Roebuck and Co. Service Centers and most Retail Stores.
HOW TO ORDER REPAIR PARTS	 Service Centers and most Retain Stores. WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION: PRODUCT - "REAR TINE TILLER" MODEL NUMBER - 917.299641 ENGINE MODEL NUMBER -112202 - TYPE NUMBER -0847-01 PART NUMBER PART DESCRIPTION Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians professional technicians specifically trained to insure that we meet our pledge to you, we service what we sell.

Sears, Roebuck and Co., Chicago, IL 60684 U.S.A.

124340X2E 4.6.90

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com