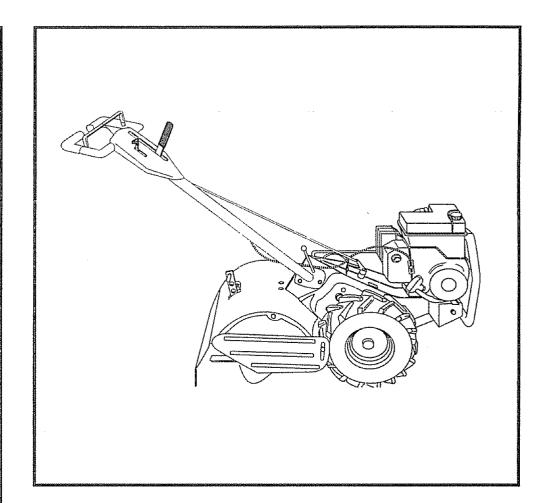


OWNER'S MANUAL

MODEL NO. 917.293650

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



CRAFIXMAN®

6.0 HP
17 INCH TINE WIDTH
REAR TINE TILLER WITH
COUNTER ROTATING TINES

- Assembly
- Operation
- Customer Responsibilities
- Service and Adjustments
- Repair Parts



SAFETY RULES

Safe Operation Practices for Walk-Behind Powered Rotary Tillers



TRAINING

- Read the Owner's 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
- 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.
- Take all possible precautions when leaving the machine unattended. Disengage the tines, shift into neutral, and stop the engine.
- 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 operate the machine at high speeds on slippery surfaces. Look behind and use care when backing.
- Never allow bystanders near the unit.
- Use only attachments and accessories approved by the manufacturer of the tiller (such as wheel weights, counterweights, 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 pins, 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 operator's guide instructions for important details if the tiller is to be stored for an extended period.

- IMPORTANT -

CAUTIONS, IMPORTANTS, AND NOTES ARE A MEANS OF ATTRACTING ATTENTION TO IMPORTANT OR CRITICAL INFORMATION IN THIS MANUAL.

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

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



Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.



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



A WARNING A



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

CONGRATULATIONS on your purchase of a Sears 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 authorized Sears Service Center/Department. They 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 917.293650
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.

PRODUCT SPECIFICATIONS

HORSEPOWER:	6.0 HP
DISPLACEMENT:	11,88 cu. in. (195cc)
GASOLINE CAPACITY:	4 Quarts Unleaded Regular
OIL (API-SF/SG): (CAPACITY: 20 oz.)	SAE 30 (Above 32°F) SAE 5W-30 (Below 32°F)
SPARK PLUG : (GAP: 030")	Champion RN4C

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 the "Customer Responsibilities" and "Storage" sections of this Owner's Manual.

IMPORTANT: THIS UNIT IS EQUIPPED WITH AN INTERNAL COMBUSTION ENGINE AND SHOULD NOT BE USED ON OR NEAR ANY UNIMPROVED FOREST-COVERED, 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/DEPARTMENT FOR SPARK ARRESTER. REFER TO THE REPAIR PARTS SECTION OF THIS MANUAL FOR PART NUMBER.

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN TILLER

For two years from date of purchase, when this Craftsman Tiller is maintained, lubricated, and tuned up according to the operating and maintenance instructions in the owner's manual, Sears will repair free of charge any defect in material or workmanship.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as tines, spark plugs, 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.
- If this Craftsman Tiller is used for commercial or rental purposes, this Warranty applies for only 30 days from the date of purchase.

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/817 WA, HOFFMAN ESTATES, ILLINOIS 60179

TABLE OF CONTENTS

SAFETY RULES	****		MAINTENANCE	SCHEDULE	
CUSTOMER RESPONSIBILITIES	******	3,13-15	SERVICE & ADJ	USTMENTS	
PRODUCT SPECIFICATIONS			STORAGE	*******	1ç
WARRANTY				TING	
ACCESSORIES				TILLER	
ASSEMBLY				ENGINE	
OPERATION	*******	0*0			
OPERATION		9-12	SERVICE/PARTS	ORDERING	BACK COVER
INDEX					
Α		Engine (cont'd)		R	
Accessories	5			Repair Parts:	
Adjustments:		Oil Level	##nanascanocontes 11,14	Tiller	21-27
Carburetor	18		**************************************		28-33
Depth Stake		Starting	***************************************	Rules for Safe Opera	ation 2
Handle Height					
Side Shields	11		######################################	S	
Throttle	18		14	Service & Adjustmer	nte.
Tines					
V-Belt (Ground Drive)		F			
Air Cleaner	14	Fuel:			11
			# ####################################	Throttle	
В			19	Tines	
Belt:			4000830866646668836856	V-Belt (Ground I	Orive) 16
Belt Guard	16	Finish:	***************************************		.,
Repair Parts		Maintenance	4644174944444444444444444444444444444444	Service:	
V-Belt (Ground Drive)		WICH I CONTROL TO CONTROL	ABHHUMANAMARAMARAMARA F 💝	Repair Parts	21-33
,		Н			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
С				Shear Pins:	
Cooling System	14	Handle:	nt 15	Operation	12
Controls:				Repair Parts	26
Choke	a	nepail raite	errennenenenenenkantatet	Spark Plug:	
Throttle		1		Gap	
Drive (Tines)		to the of a set to be.		Maintenance	
Cultivating		Lubrication:	40	Storage:	
	1 L.		rt 13	Fuel System	
Customer Responsibilities:	4.4	Engine		Tiller	
Air Cleaner		M			
Finish	15			Т	
Finish	13	Muffler:		Tilling	
Muffler			15	Tines:	
Oil Change		Spark Arrester			placement 17
Spark Plug	15	^		Operation	
Tines	17	0		Repair Parts	26
Transmission		Oil:		Shear Pins	12
V-Belt (Ground Drive)	16			Transmission:	
_		* *	11,14	Maintenance	15
D		Operation:		Repair Parts	
Depth Stake:		Cultivating		Troubleshooting	
Adjustment	10		11	Transporting	
Repair Parts	25			s a use suprove the type on a connection of	минивичено учили присседено в 1
			Engine 10	W	•
polisis imm isono		Tilling Hinte	10 12 12 12 13 14 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18		
Engine:		Tine Operation	10	Warranty	ARRAMANARAS MANARA I 11 SESCESTA . C
Air Cleaner	14	Transporting Till	er11	Wheels:	
Cooling System			ή 14	Hemoval	
Fuel Type		and the second of the second s		Hepair Parts	23

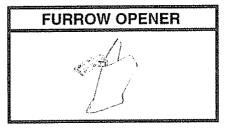
ACCESSORIES

These accessories were available when the tiller was purchased. They are also available at most Sears Retail outlets 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

TILLER PERFORMANCE



TILLER MAINTENANCE

BELT	TINES	SHEAR PIN	HAIRPIN CLIP

ASSEMBLY

Your new tiller has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tiller all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure proper tightness.

TOOLS REQUIRED FOR ASSEMBLY

A socket wrench set will make assembly easier. Standard wrench sizes are listed.

- (1) Utility knife
- (1) Wire cutter
- (1) Screwdriver
- (1) Tire pressure gauge
- (1) Pair of pliers
- (1) 9/16" wrench

OPERATOR'S POSITION (See Fig. 1)

When right or left hand is mentioned in this manual, it means when you are in the operating position (standing behind tiller handles).

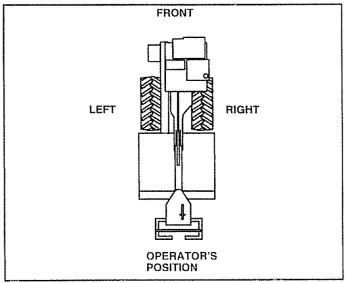
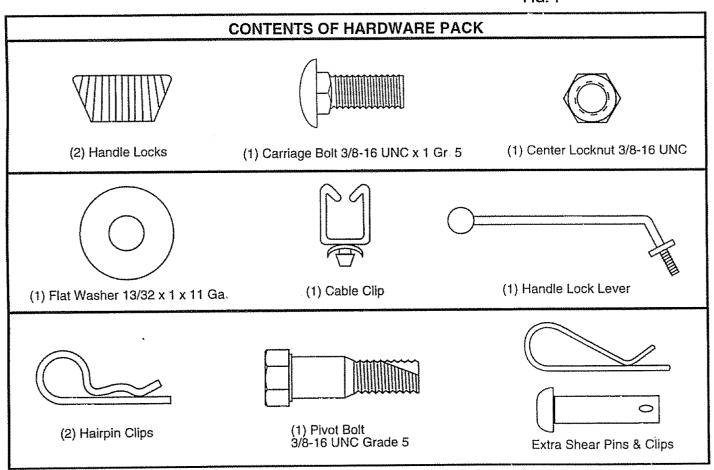


FIG. 1



ASSEMBLY

UNPACKING CARTON (See Fig. 2)



CAUTION: Be careful of exposed staples when handling or disposing of cartoning material.

IMPORTANT: 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 on top of carton.
- 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.

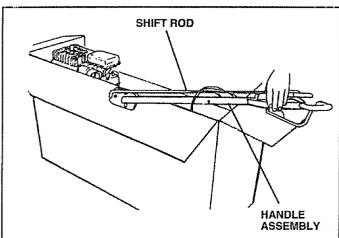


FIG. 2

INSTALL HANDLE (See Figs. 3, 4, and 5)

 Insert one handle lock (with teeth facing outward) in gearcase notch. (Apply grease on smooth side of handle lock to aid in keeping lock in place until handle assembly is lowered into position.)

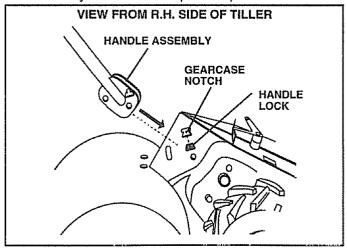


FIG. 3

 Grasp handle assembly. Hold in "up" position. Be sure handle lock remains in gearcase notch. Slide handle assembly into position.

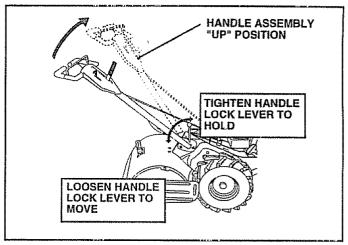


FIG. 4

- Rotate handle assembly down. Insert rear carriage bolt first, with head of bolt on L.H. side of tiller and loosely assemble locknut (See Fig. 5).
- Insert pivot bolt in front part of plate and tighten.
- Cut down remaining corners of carton and lay panels flat.
- Lower the handle assembly. Tighten nut on carriage bolt so handle moves with some resistance. This will allow for easier adjustment.
- Place flat washer on threaded end of handle lock lever.
- Insert handle lock lever through handle base and gearcase. Screw in handle lock lever just enough to hold lever in place.
- Insert second handle lock (with teeth inward) in the slot of the handle base (just inside of washer).
- Raise handle assembly to highest position and securely tighten handle lock lever by rotating clockwise. Leaving handle assembly in highest position will make it easier to connect shift rod.

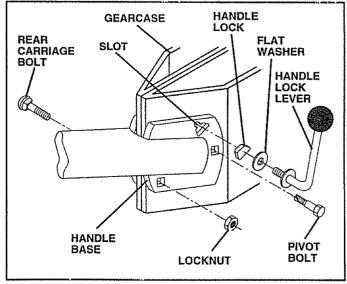


FIG. 5

ASSEMBLY

CONNECT SHIFT ROD (See Fig. 6)

- Insert end of shift rod farthest from bend into hole of shift lever indicator.
- Insert hairpin clip through hole of shift rod to secure.
- Insert other end of shift rod into hole in shift lever.
- Insert second hairpin clip through hole of shift rod.

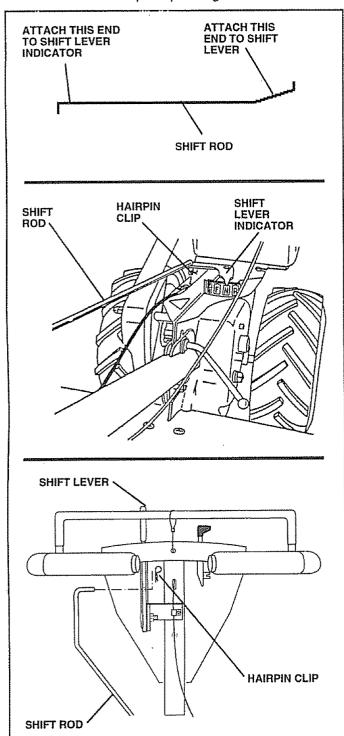


FIG. 6

REMOVE TILLER FROM CRATE

- Adjust handle assemby to lowest position. Be sure lock lever is tightened securely.
- Make sure shift lever indicator is in "N" (neutral) position (See Fig. 6)
- Tilt tiller forward by lifting handle. Separate cardboard cover from leveling shield.
- Rotate tiller handle to the right and pull tiller out of carton.

INSERT CABLE CLIP (See Fig. 7)

• Insert plastic cable clip into hole on the back of handle column. Push cables into clip.

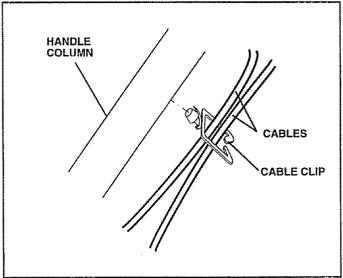


FIG. 7

CHECK TIRE PRESSURE

The tires on your unit were overinflated at the factory for shipping purposes. Correct and equal tire pressure is important for best tilling performance.

Reduce tire pressure to 20 PSI.

HANDLE HEIGHT

 Handle height may be adjusted to better suit operator. (See "TO ADJUST HANDLE HEIGHT" in the Service and Adjustments section of this manual).

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.

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























TILLING FORWARD

NEUTRAL

REVERSE

CAUTION OR WARNING

ENGINE

ENGINE

FAST

SLOW

CHOKE FUEL OIL

DRIVE . THROTTLE CONTROL CONTROL BAR SHIFT LEVER SHIFT LEVER INDICATOR PRIMER **DEPTH STAKE LEVELING** SHIELD RECOIL STARTER HANDLE **OUTER** SIDE SHIELD FIG. 8

MEETS ANSI SAFETY REQUIREMENTS

Our tillers conform to the safety standards of the American National Standards Institute.

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

DEPTH STAKE - Controls depth at which tiller will dig. DRIVE CONTROL BAR - Used to engage tines.

LEVELING SHIELD - Levels tilled soil.

OUTER SIDE SHIELD - Adjustable to protect small plants from being buried.

RECOIL STARTER HANDLE - Used to start the engine. SHIFT LEVER - Used to shift transmission gears.

SHIFT LEVER INDICATOR - Shows which gear the transmission is in.

THROTTLE CONTROL - Controls engine speed..



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 a wide vision safety mask over the spectacles or standard safety glasses.

HOW TO USE YOUR TILLER

Know how to operate all controls before adding fuel and oil or attempting to start engine.

STOPPING (See Fig. 9)

TINES AND DRIVE

- Release drive control bar to stop movement.
- Move shift lever to "N" (neutral) position.

ENGINE

- Move throttle control to "STOP" position.
- Never use choke to stop engine.

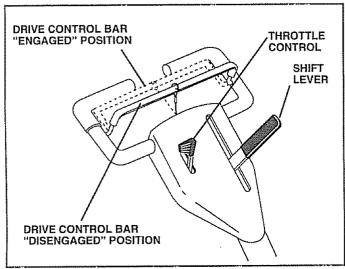


FIG. 9

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" (till) position and engaging drive control bar.

FORWARD-WHEELSONLY/TINESSTOPPED

 Release drive control bar and move shift lever indicator to "F" (forward) 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" (reverse) position.
- Hold drive control bar against the handle to start tiller movement.

DEPTH STAKE (See Fig. 10)

The depth stake can be raised or lowered to allow you more versatile tilling and cultivating, or to more easily transport your tiller.

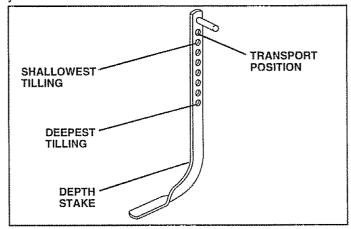


FIG. 10

TILLING (See Fig. 11)

- Release depth stake pin. 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 "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.

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

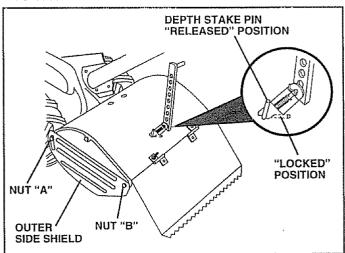


FIG. 11

TURNING

- Release the drive control bar.
- Move throttle control to "SLOW" position.
- Place shift lever indicator in "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" (till) position and move throttle control to desired speed. To begin tilling, hold drive control bar against the handle.

OUTER SIDE SHIELDS (See Fig. 11)

The front edges of the outer side shields are slotted so that the shields 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". Move shield to desired position (both sides). Retighten nuts.

TO TRANSPORT



CAUTION: Before lifting or transporting, allow tiller engine and muffler to cool. Disconnect spark plug wire. Drain gasoline from fuel tank.

AROUND THE YARD

- 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 in "F" (forward) 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.

AROUND TOWN

- Disconnect spark plug wire.
- Drain fuel tank.
- Transport in upright position to prevent oil leakage.

BEFORE STARTING ENGINE

IMPORTANT: BE VERY CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHECKING OR ADDING OIL OR FUEL. USE CLEAN OIL AND FUEL AND STORE IN APPROVED, CLEAN, COVERED CONTAINERS. USE CLEAN FILL FUNNELS.

CHECK ENGINE OIL LEVEL (See Fig. 12)

- The engine in your unit has been shipped, from the factory, already filled with SAE 30 summer weight oil.
- Be sure tiller is level and the area around oil fill is clean.
- 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.
- For approximate capacity see "PRODUCT SPECIFI-CATIONS" on page 3 of this manual. All oil must meet A.P.I. Service Classification SF or SG.
- For cold weather operation you should change oil for easier starting (See oil viscosity chart in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

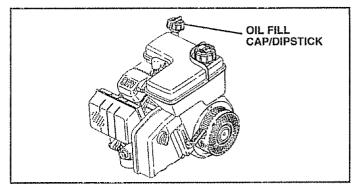


FIG. 12

ADD GASOLINE

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life.)

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F (0°C), USE FRESH, CLEAN, WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

WARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage section of this manual for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



CAUTION: Fill to within 1/2 inch of top of fuel tank to prevent spills and to allow for fuel expansion. If gasoline is accidentally spilled, move machine away from area of spill. Avoid creating any source of ignition until gasoline vapors have disappeared.

Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

TO START ENGINE (See Fig. 7)



CAUTION: Keep drive control bar in "DISENGAGED" position when starting engine.

When starting engine for the first time or if engine has run out of fuel, it will take extra pulls of the recoil starter to move fuel from the tank to the engine.

- Make sure spark plug wire is properly connected.
- Move shift lever indicator to "N" (neutral) position.
- · Place throttle control in "FAST" 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.
- Grasp recoil starter handle with one hand and grasp 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 recoil starter handle quickly. Do not let starter handle snap back against starter.
- Allow engine to warm up for a few minutes before engaging tines.

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.

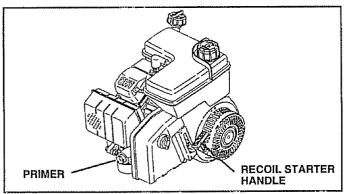


FIG. 13

TILLING HINTS



CAUTION: Until you are accustomed to handling your tiller, start actual field use with throttle in slow position (midway between "FAST" and "IDLE").

- 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.
- 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 (See Fig. 14).

- 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.
- Do not lean on 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.

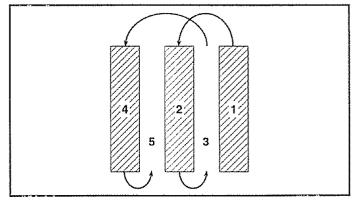


FIG. 14

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 (See Fig. 15).

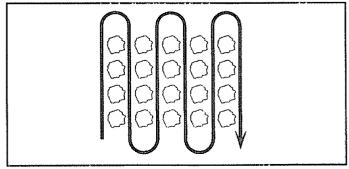


FIG. 15

TINE SHEAR PINS

The tine assemblies on your tiller are secured to the tine shaft with shear pins (See "TINE REPLACEMENT" in the Service and Adjustments section of this manual).

If the tiller is unusually overloaded or jammed, the shear pins are designed to break before internal damage occurs to the transmission.

If shear pin(s) break, replace only with those shown in the Repair Parts section of this manual.

CUSTOMER RESPONSIBILITIES

MAINTENANCE SCHEDULE		EL CESCO	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			/						-	
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE					/		SE	ERVI	CE	TAC	ES	Michael	
Check Engine Oil Level		6/											
Change Engine Oil				1,2									
Oil Pivot Points		W											
Inspect Spark Arrester / Muffler				V									
Inspect Air Screen	0/												
Clean or Replace Air Cleaner Cartridge				V_2									
Clean Engine Cylinder Fins				4									
Replace Spark Plug				6/									

- 1 Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions.

GENERAL RECOMMENDATIONS

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

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

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

 Once a year you should replace the spark plug, clean or replace air filter, and check tines and belts for wear. A new spark plug and clean air filter assure proper airfuel mixture and help your engine run better and last longer.

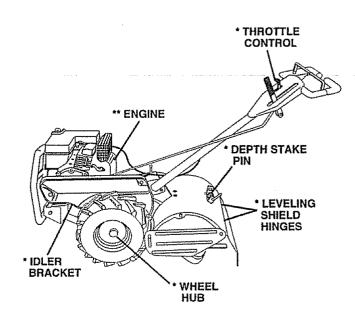
BEFORE EACH USE

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

LUBRICATION

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

LUBRICATION CHART



- * SAE 30 OR 10W-30 MOTOR OIL
- ** REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

CUSTOMER RESPONSIBILITIES



Disconnect spark plug wire before performing any maintenance (except carburetor adjustment) to prevent accidental starting of engine.

Prevent fires! Keep the engine free of grass, leaves, spilled oil, or fuel. Remove fuel from tank before tipping unit for maintenance. Clean muffler area of all grass, dirt, and debris.

Do not touch hot muffler or cylinder fins as contact may cause burns.

ENGINE

LUBRICATION

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

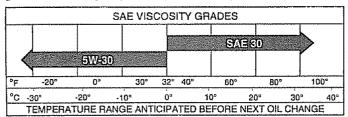


FIG. 16

NOTE: Although multi-viscosity oils (5W-30, 10W-30, etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F (0°C). Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

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

Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Add SAE 30 motor oil or equivalent. Tighten oil filler plug securely each time you check the oil level.

TO CHANGE ENGINE OIL (See Figs. 16 and 17)

Determine temperature range expected before oil change. All oil must meet API service classification SF, SG or SH.

- Be sure tiller is on level surface.
- Oil will drain more freely when warm.
- Use a funnel to prevent oil spill on tiller, and catch oil in a suitable container.
- Remove oil drain plug and oil fill cap/dipstick. Be careful not to allow dirt to enter the engine. For easier removal of plug use 7/16 12 Pt. socket with
- Tip tiller forward to drain oil.

extension.

- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill tube. See "CHECK ENGINE OIL LEVEL" in the Operation section of this manual.

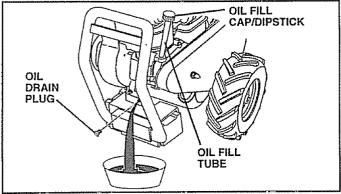


FIG. 17

AIR FILTER (See Fig. 18)

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first. Service air cleaner more often under dusty conditions.

Remove cover screw and cover.

TO SERVICE PRE-CLEANER

- Remove foam pre-cleaner from air cleaner cover.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace pre-cleaner.
- Reinstall pre-cleaner into air cleaner cover.
- Reinstall cover and secure screw.

TO SERVICE CARTRIDGE

- Carefully remove cartridge to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge, cover with pre-cleaner and secure with screw.

IMPORTANT: PETROLEUM SOLVENTS, SUCH AS KEROSENE, ARE NOT TO BE USED TO CLEAN THE CARTRIDGE. THEY MAY CAUSE DETERIORATION OF THE CARTRIDGE. DO NOT OIL CARTRIDGE. DO NOT USE PRESSURIZED AIR TO CLEAN OR DRY CARTRIDGE.

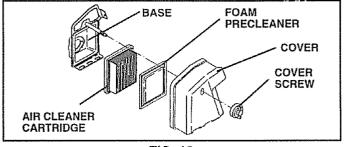


FIG. 18

COOLING SYSTEM (See Fig. 19)

Your engine is air cooled. For proper engine performance and long life keep your engine clean.

- Clean air screen frequently using a stiff-bristled brush.
- Keep cylinder fins, levers, and linkage free of dirt and chaff.

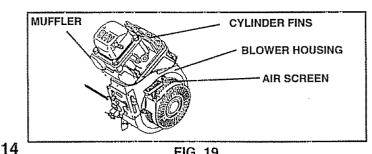


FIG. 19

CUSTOMER RESPONSIBILITIES

MUFFLER

Do not operate tiller without muffler. 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

Replace spark plugs at the beginning of each tilling season or after every 50 hours of use, whichever comes first. Spark plug type and gap setting is shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

TRANSMISSION

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

CLEANING

- · Clean engine, wheels, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your unit unless the muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

SERVICE AND ADJUSTMENTS



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

TILLER

TO ADJUST HANDLE HEIGHT (See Fig. 20)

Select handle height best suited for your tilling conditions. Handle height will be different when tiller digs into soil.

- · First loosen handle lock lever.
- Handle can be positioned at different settings between "HIGH" and "LOW" positions.
- Retighten handle lock lever securely after adjusting.

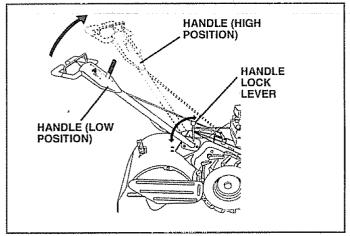


FIG. 20

TIRE CARE



CAUTION: When mounting tires, unless beads are seated, overinflation 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.

TO REMOVE WHEEL (See Fig. 21)

- Place blocks under transmission to keep tiller from tipping.
- Remove outer side shield by removing nuts "A" and "B"
- Remove inner side shield by removing nuts "C" and "D".
- Remove hairpin clip and clevis pin from wheel.
- Remove wheel and tire.
- · Repair tire and reassemble.

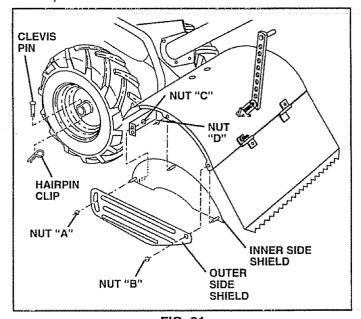


FIG. 21

SERVICE AND ADJUSTMENTS

TO REMOVE BELT GUARD (See Fig. 22)

- Remove L.H. inner and outer side shields (See "TO REMOVE WHEEL" in this section of this manual).
- Remove hairpin clip and clevis pin from left wheel. Pull wheel out from tiller about 1 inch.
- Remove two (2) cap nuts and washers from side of belt quard.
- Remove hex nut and washer from bottom of belt guard (located behind wheel).
- · Pull belt quard out and away from unit
- Replace belt quard by reversing above procedure.

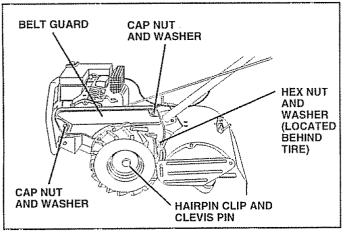


FIG. 22

TO REPLACE GROUND DRIVE BELT (See Figs. 22 and 23)

- Remove belt guard. (See "TO REMOVE BELT GUARD" in this section of this manual).
- Loosen belt guides "A" and "B" and also nuts "C" and "D".
- Remove old belt by slipping from engine pulley first.
- Place new belt in groove of transmission pulley and into 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".
- Check belt adjustment as described below.
- Replace beit guard.
- Reposition wheel and replace clevis pin and hairpin clip.
- Replace inner and outer side shields.

GROUND DRIVE BELT ADJUSTMENT (See Fig. 23)

For proper belt tension, the extension spring should have about 5/8 inch stretch when drive control bar is in "EN-GAGED" position. This tension can be attained as follows:

- Loosen cable clip screw securing the drive control cable.
- 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.
- Tighten cable clip screw securely.

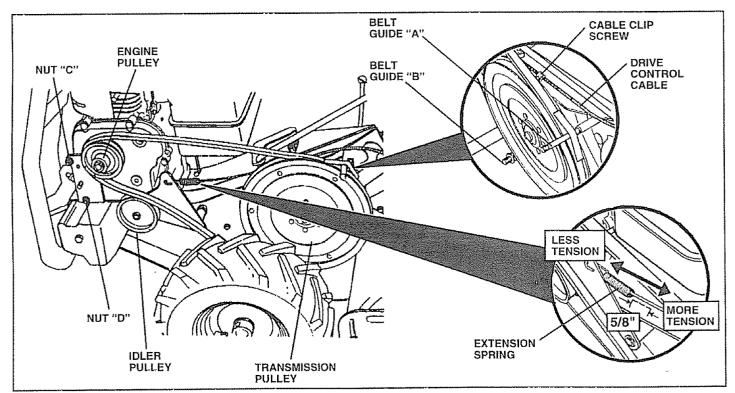


FIG. 23-

SERVICE AND ADJUSTMENTS

TINE REPLACEMENT (See Figs. 24, 25 and 26)



CAUTION: Tines are sharp. Wear gloves or other protection when handling tines.

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.

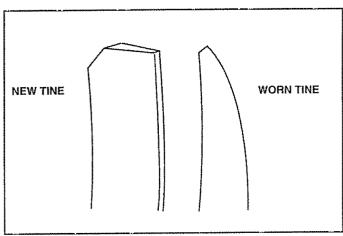


FIG. 24

- 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.
- New tines should be assembled as shown in Fig. 26.
 Sharpened tine edges will rotate rearward from above.

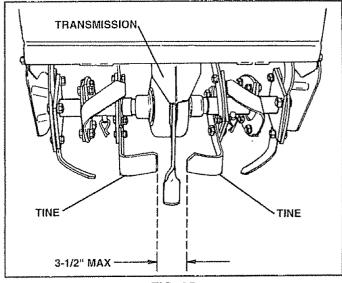


FIG. 25

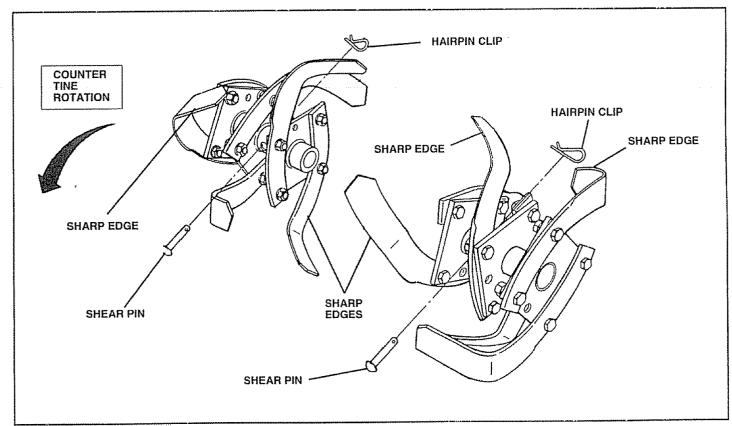


FIG. 26

SERVICE AND ADJUSTMENTS

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 27)

The throttle control has been preset at the factory and adjustment should not be necessary. If adjustment is necessary, proceed as follows:

- With engine not running, move remote throttle control lever to "FAST" position.
- If throttle lever on engine touches high speed stop, no further adjustment is necessary. If throttle lever does not touch high speed stop, continue with adjustment procedure.
- Loosen cable clamp screw.
- Move throttle lever up until it touches high speed stop, and hold in this position.
- · Tighten cable clamp screw securely.

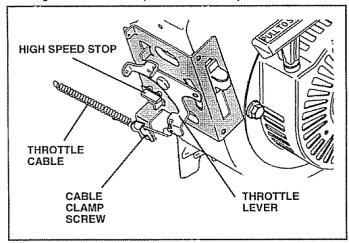


FIG. 27

TO ADJUST CARBURETOR

The carburetor has been preset at the factory and adjustment should not be necessary. However, engine performance can be affected by differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, contact your nearest authorized service center/department

IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER/DEPARTMENT, WHICH HAS THE PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS

STORAGE

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



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

TILLER

- Clean entire tiller (See "CLEANING" in the Customer Responsibilities section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Customer Responsibilities section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

ENGINE

FUEL SYSTEM

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 DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

- Drain the fuel tank.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- · Use fresh fuel next season.

NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

Drain oil (with engine warm) and replace with clean oil. (See "ENGINE" in the Customer Responsibilities section of this manual).

CYLINDERS

- Remove spark plug
- Pour 1 ounce (29 ml) of oil through spark plug hole into cylinder.
- Pull starter handle slowly several times to distribute oil.
- Replace with new spark plug.

OTHER

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

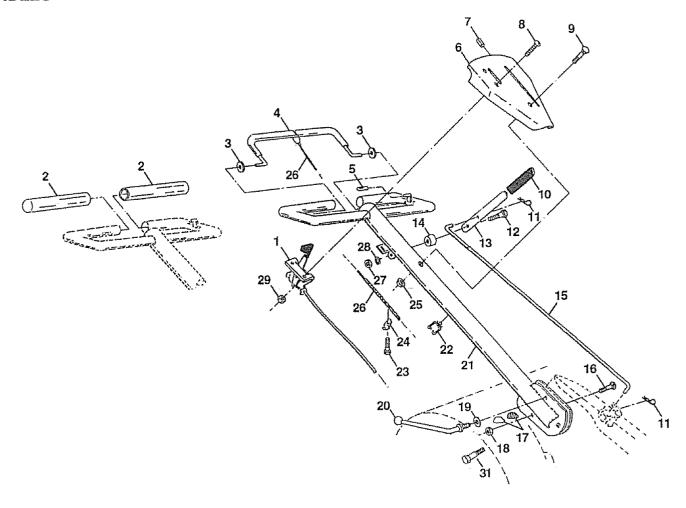
IMPORTANT: NEVER COVER TILLER WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Will not start	1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Dirty air cleaner 5. Water in fuel 6. Clogged fuel tank. 7. Loose spark plug wire. 8. Bad spark plug or improper gap. 9. Carburetor out of adjustment.	 Fill fuel tank. See "TO START ENGINE" in Operation section Wait several minutes before attempting to start. Clean or replace air cleaner cartridge Drain fuel tank and carburetor, and refill tank with fresh gasoline. Remove fuel tank and clean. Make sure spark plug wire is seated properly on plug. Replace spark plug or adjust gap Make necessary adjustments Replace air filter.
Hard to start	Throttle control not set properly Dirty air cleaner Bad spark plug or improper gap Stale or dirty fuel Loose spark plug wire Carburetor out of adjustment	 Place throttle control in "FAST" position. Clean or replace air cleaner cartridge. Replace spark plug or adjust gap Drain fuel tank and refill with fresh gasoline. Make sure spark plug wire is seated properly on plug. Make necessary adjustments.
Loss of power	1 Engine is overloaded 2. Dirty air cleaner. 3. Low oil level/dirty oil 4. Faulty spark plug. 5 Oil in fuel. 6 Stale or dirty fuel. 7 Water in fuel. 8. Clogged fuel tank 9. Spark plug wire loose. 10. Dirty engine air screen 11. Dirty/clogged muffler. 12. Carburetor out of adjustment. 13. Poor compression	 Set depth stake for shallower tilling. Clean or replace air cleaner cartridge Check oil level/change oil. Clean and regap or change spark plug Drain and clean fuel tank and refill, and clean carburetor Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carburetor, and refill tank with fresh gasoline. Remove fuel tank and clean. Connect and tighten spark plug wire Clean engine air screen. Clean/replace muffler Make necessary adjustments. Contact an authorized service center/department
Engine overheats	Low oil level/dirty oil Dirty engine air screen Dirty engine Partially plugged muffler Improper carburetor adjustment	 Check oil level/change oil. Clean engine air screen. Clean cylinder fins, air screen, and muffler area Remove and clean muffler. Adjust carburetor to richer position
Excessive bounce/ difficult handling	Ground too dry and hard	Moisten ground or wait for more favorable soil conditions.
Soil balls up or clumps	1 Ground too wet.	Wait for more favorable soil conditions.
Engine runs but tiller won't move	Drive control bar is not engaged. V-belt not correctly adjusted. V-belt is off pulley(s).	Engage drive control. Inspect/adjust V-belt. Inspect V-belt.
Engine runs but labors when tilling	1 Tilling too deep. 2 Throttle control not properly adjusted. 3 Carburetor out of adjustment.	Set depth stake for shallower tilling. Check throttle control setting Make necessary adjustments
Tines will not rotate	1 Shear pin(s) broken	1 Replace shear pin(s).

TILLER - - MODEL NUMBER 917.293650

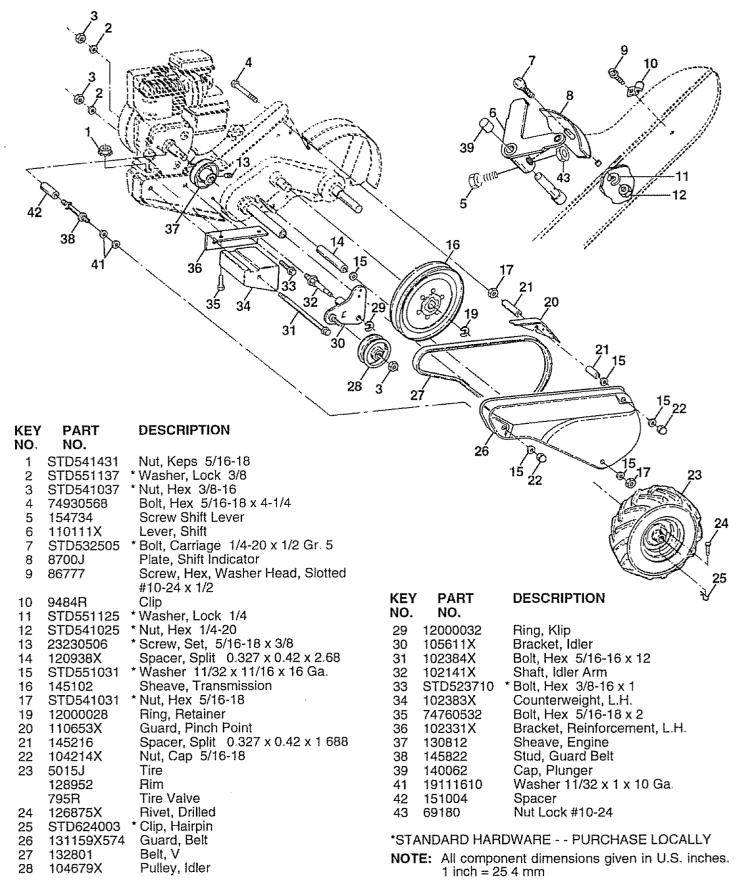
HANDLES



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	127012X	Throttle, Control	19	19131611	Washer 13/32 x 1 x 11 Ga.
2	141406	Grip, Handle	20	109228X	Lever, Lock, Handle
3	110673X	Grommet, Handle	21	150258	Handle, Assemble
4	127254X	Bar, Drive Control Assembly	22	121145X	Clip, Plastic, Cable
5	6712J	Cap, Vinyl	23	86777	Screw, Hex, Washer Hd, Slotted
6	137119	Panel, Control			#10-24 x 1/2
7	110641X	Bushing, Split	24	9484R	Clip
8	71191008	* Screw, Pan Head #10-24	25	73970500	Locknut, Hex, Flange
9	72010520	* Bolt, 5/16-18 x 2-1/2	26	110675X	Clutch, Cable
10	110646X	Handle, Grip	27		* Nut, Hex 1/4-20
11	STD624003		28		* Washer, Lock 1/4
12	81328	Bolt, Shoulder	29	STD541462	* Nut, Keps #10-24
13	110741X	Handle, Shift	31	150696	Bolt, Pivot
14	109313X	Grommet, Rubber			
15	110702X	Rod, Shift	* ST	ANDARD HAR	DWARE PURCHASE LOCALLY
16	STD533710	* Bolt, Carriage 3/8-16 x 1 Gr. 5			
17	109229X	Lock, Handle	NOT	E: All compor	nent dimensions given in U.S. inches.
18	STD541437	* Nut, Centerlock 3/8-16		1 inch = 25	5.4 mm

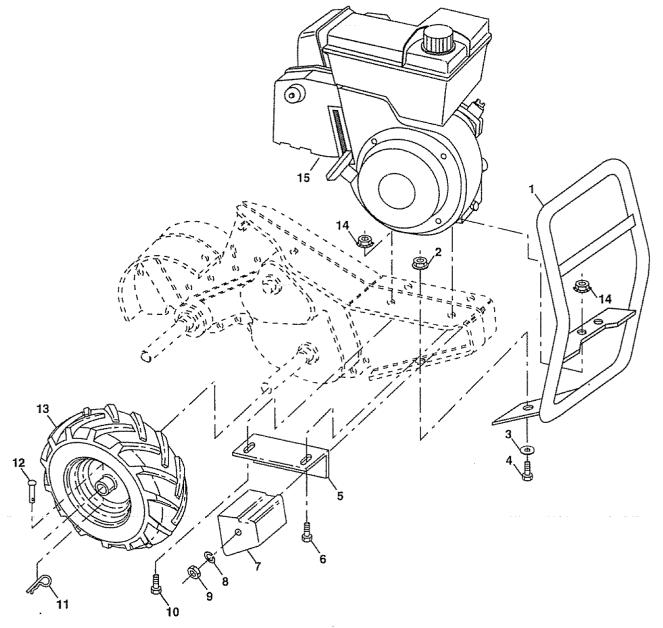
TILLER - - MODEL NUMBER 917.293650

MAINFRAME, LEFT SIDE



TILLER - - MODEL NUMBER 917.293650

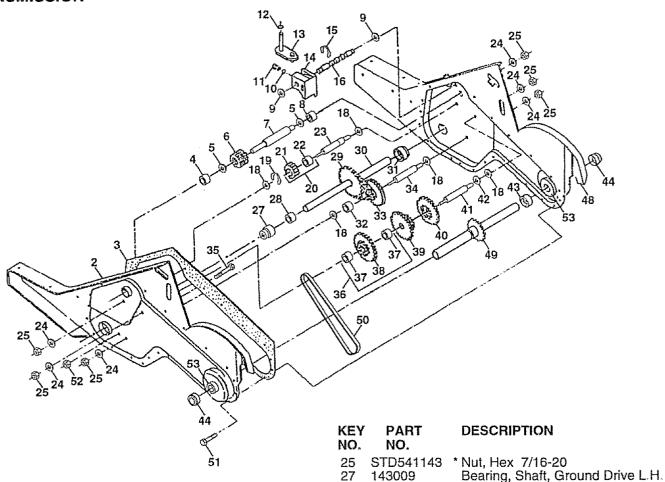
MAINFRAME, RIGHT SIDE



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	157976	Bumper	12	126875X	Rivet, Drilled
2	73970500	Locknut, Hex, Flange 5/16-18	13	5015J	Tire
3	STD551031	* Washer 11/32 x 11/16 x 16 Ga		128952	Rim
4	74760512	Bolt, Hex 5/16-18 x 3/4		795R	Tire Valve
5	102332X	Bracket, Reinforcement	14	STD541431	* Nut, Keps 5/16-18
6	74760532	Bolt, Hex 5/16-18 x 2	15	,	Engine, (See Breakdown)
7	102173X	Counter Weight, R.H.			Craftsman Model No. 143.976001
8	STD551137	* Washer, Lock 3/8			
9	STD541037	* Nut, Hex 3/8-16	* ST	ANDARD HAF	IDWARE PURCHASE LOCALLY
10	74760524	Bolt, Hex 5/16-18 x 1-1/2	NOT	E. Alloomno	nent dimensions given in U.S.inches.
11	STD624003	* Clip, Hairpin	NOT	1 inch = 2	

TILLER - - MODEL NUMBER 917.293650

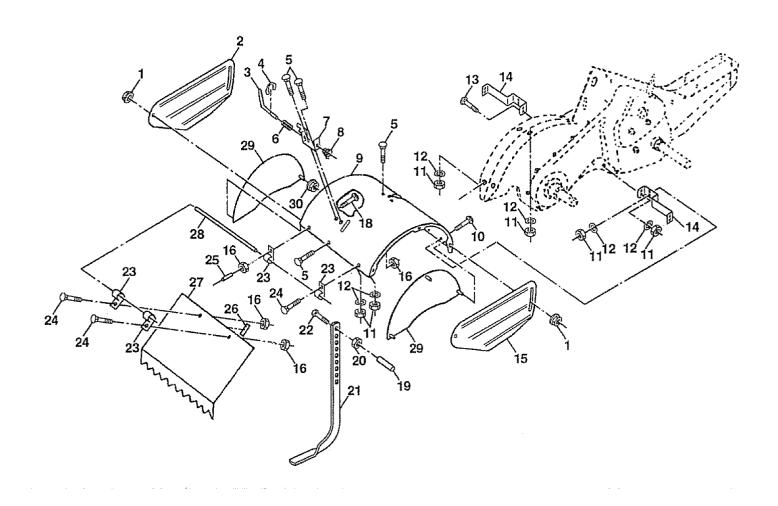
TRANSMISSION



			28 29	106390X 102134X	Spacer 0.765 x 1.125 x 1.23 Chain #35-50 Pitch
KEY	PART	DESCRIPTION	30	150737	Ground Shaft Assembly
NO.	NO.		31	143008	Bearing, Shaft, Ground Drive R.H.
1	154354	Transmission Assembly	32	106388X	Spacer 0.70 x 1.00 x 1.150
,	10-100-1	(Includes Key Nos. 2-52)	33	102121X	Sprocket and Gear Assembly
2	150698	Gearcase, L.H. w/Bearing	34	102112X	Shaft, Reduction (2nd)
i	.00000	(Includes Key No. 4)	35	102101X	Screw, Whiz, Lock 5/16-18 x 3-1/2
3	106211X	Gasket, Gearcase	36	154355	Sprocket Assembly w/Bearing
4	5020J	Bearing, Needle			(Includes Key Nos. 37 and 38)
5	1370H	Washer, Thrust 5/8 x 1.10 x 1/32	37	4422J	Bearing, Needle
6	137335	Pinion, Ínput	38	154356	Sprocket, Tine
7	145101	Shaft, Input	39	105345X	Gear, Cluster, Red 1st & 2nd
8	4895H	Bearing, Needle	40	105346X	Gear, Reverse
9	154467	Washer, Seal	41	8358J	Shaft, Reduction (1st)
10	7392M	Ball, Steel	42	4220R	Washer, Thrust
11	100371K	Spring, Shift, Fork	43	106146X	Spacer 1.01 x 1.75 x 0.760
12	106160X	O-Ring	44	155236	Seal, Asm. Oil
13	142145	Arm, Shift	48	150700	Gearcase, R.H. w/Bearing
14	8353J	Fork, Shift			(Includes Key No. 8)
15	12000039	Ring, Klip	49	132688	Shaft, Tine
16	154466	Shaft, Shift	50	106147X	Chain, Roller #50-50 Pitch
18	4358J	Washer	51	17720408	Screw 1/4-20 x 1/2
19	12000040	Ring, Klip		73220500	* Nut, Hex 5/16-18
20	102114X	Gear, Assembly, Reverse Idler	53	122204X	Bearing Kit, Tine Shaft
		(Includes Key Nos. 21 and 22)		6066J	Grease, Plastilube #1
21	102115X	Gear, Reverse Idler			mmia.com
22	6803J	Bearing, Needle	* \$1	ANDARD HA	RDWARE PURCHASE LOCALLY
23 24	102111X STD551143	Shaft, Reverse Idler * Washer, Lock 7/16	ТОИ		onent dimensions given in U.S. inches. 25.4 mm

TILLER - - MODEL NUMBER 917.293650

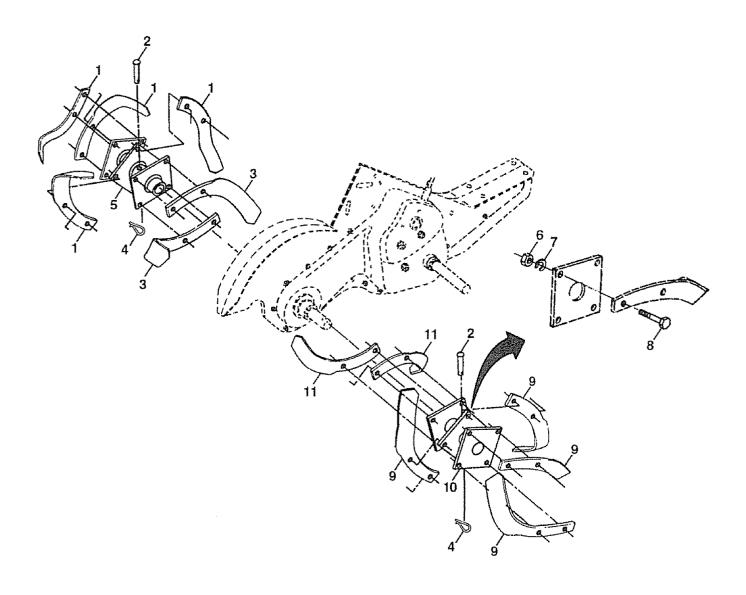
TINE SHIELD



KEY	PART	DESCRIPTION	KEY NO.	NO.	DESCRIPTION
NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	NO. 98000129 104086X574 8393J 12000036 STD533107 8394J 8392J 109230X 124289X574 STD533110 STD541031 STD551131 72110510 124311X 104101X574 73510400	Pin, Stake, Depth Ring, Klip * Bolt, Carriage 5/16-18 x 3/4 Gr 5 Spring Bracket, Latch Spring, Depth Stake Shield, Tine * Bolt, Carriage 5/16-18 x 1 Gr. 5 * Nut, Hex 5/16-18 * Washer, Lock 5/16 Bolt, Carriage 5/16-18 x 1-1/4 Bracket, Shield Tine			Grip * Nut, Hex 3/8-16 Stake, Depth Bolt, Hex 3/8-16 x 2 Hinge * Bolt, Carriage 1/4-20 x 1/4 Cap, Vinyl Pad, Idler Shield, Leveling Pin, Hinge Shield, Side Locknut, Hex, Flange RDWARE PURCHASE LOCALLY onent dimensions given in U.S. inches

TILLER - - MODEL NUMBER 917.293650

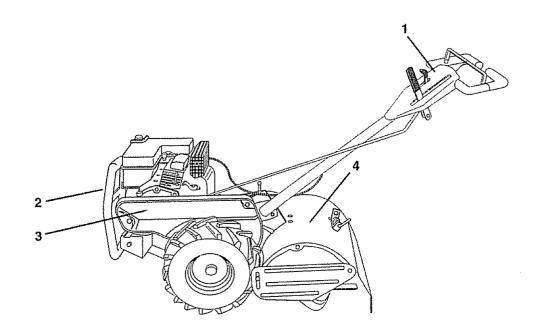
TINE ASSEMBLY

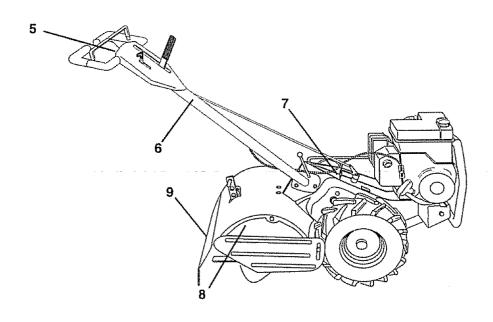


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4459J	Tine, Outer, L.H.	8	74610616	Bolt, Hex 3/8-24 x 1
2	132673	Pin, Shear	9	4460J	Tine, Outer, R.H.
3	6554J	Tine, Inner, L.H.	10	132728	Assembly, Hub and Plate, R.H.
4	STD624008		11	6555J	Tine, Inner, R.H.
5	132727	Assembly, Hub and Plate, L.H.	* ST.	ANDARD H	IARDWARE PURCHASE LOCALLY
6	73610600	Nut, Hex 3/8-24			
7	STD551137	* Washer, Lock 3/8	тои		ponent dimensions given in U.S. inches. = 25.4 mm

TILLER - - MODEL NUMBER 917.293650

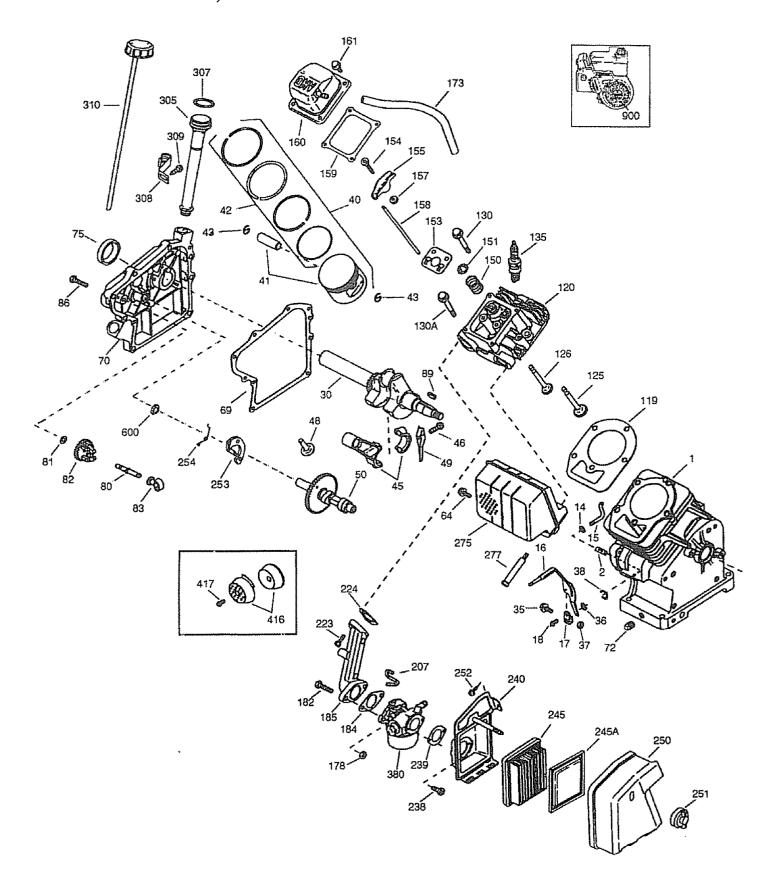
DECALS



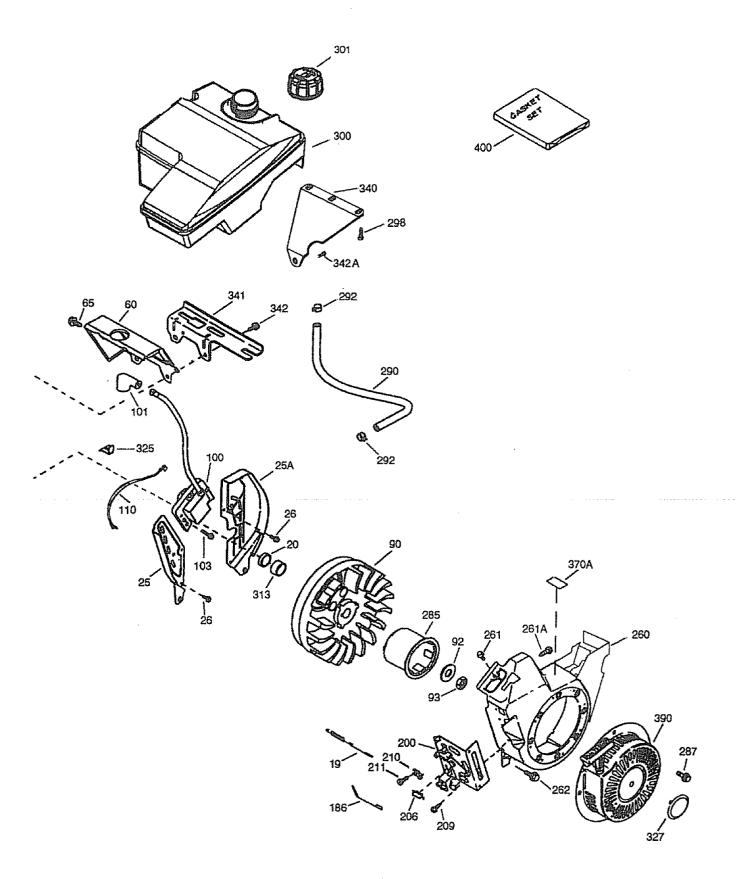


KEY NO.	PART NO.	DESCRIPTION
1	158095	Decal, Logo
2	145023	Decal, Logo
2	157982	Decal, Logo
4	157983	Decal, Description
5	137538	Decal, Caution, Drive Control
6	120431X	Decal, Hand Placement
7	102180X	Decal, Shift Indicator
8	157984	Decal, Cou. Tines Rot. Tines
9	120075X	Decal, Warning, Rotating Tines
	158309	Manual, Owner's (English)
	158310	Manual, Owner's (Spanish)

TILLER - - MODEL NUMBER 917.293650 ENGINE, CRAFTSMAN - - MODEL NUMBER 143.976001



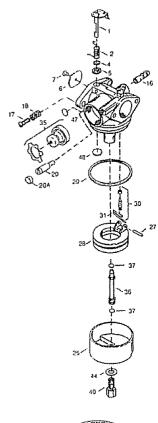
TILLER - - MODEL NUMBER 917.293650 ENGINE, CRAFTSMAN - - MODEL NUMBER 143.976001

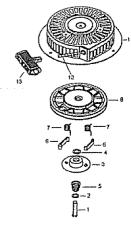


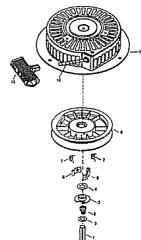
TILLER - - MODEL NUMBER 917.293650 ENGINE, CRAFTSMAN - - MODEL NUMBER 143.976001

KEY PART NO. 1 36866 1 2 26727 14 28277 15 30589 16 36618 17 36700 18 651028 19 36710 20 32600 25 36622 26 30200 30 34740 35 29826 36 29918 37 29216 36 29918 37 29216 36 29918 37 29216 36 29318 37 29216 36 29318 37 29216 36 29318 37 29216 36 29318 37 29216 36 29318 37 29216 36 29318 37 29216 36 29318 37 29216 36 29318 36070 41 36070 41 36071 42 40006 42 40007 43 20381 45 32875 A 46 32610 A 48 35616 49 36621 50 36622 36623 64 650738 65 30200 69 36624 70 36625 72 27642 75 27897 80 30574 A 81 30590 A 82 30591 83 36057 86 650488 89 610961 90 611205 92 650815 92 650815 92 650815 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 650815 92 92 92 92 92 92 92 92 92 92 92 92 92	Air Baffle (Left) Air Baffle (Right) Screw, 10-24 x 9/16" Crankshaft Screw, 10-32 x 3/4" Lock Washer Lock Nut, 10-32 Retaining Ring Piston, Pin & Ring Set (Std.) Piston, Pin & Ring Set (.010" OS) Piston & Pin Ass'y (Std.) (Incl. 43) Piston & Pin Ass'y (Std.) (Incl. 43) Piston & Pin Ass'y (.010" OS) (Incl. 43) Ring Set (.010" OS) Piston Pin Retaining Ring Connecting Rod Ass'y (Incl. 46 & 49) Connecting Rod Bolt Valve Lifter Oil Dipper Camshaft (Incl. 253 & 254) Blower Housing Extension Screw, 1/4-20 x 5/8" Screw, 10-24 x 9/16" *Cylinder Cover (Incl. 75 thru 83) Oil Drain Plug Oil Seal Governor Shaft Washer Governor Spool Screw, 1/4-20 x 1-1/4" Flywheel Key Flywheel Belleville Washer Flywheel Nut	KEY PART NO. NO. 173 36675A 178 650852 182 650451 184 26756 185 36631 186 36711 200 36736 206 610973 207 36632 209 650821 210 27793 211 28942 223 650451 224 36581 238 28820 239 27272A 240 36633 245 36046 245A 36634 250 36635A 251 650886 252 650821 253 36701 254 36702 260 36992 261 651008 275 36759 277 650988 285 35985B 287 651008 290 30705 292 26460 298 650665 300 36875 301 36246 305 36877 307 35499 308 36651 309 651011 310 36878 313 34080 325 29443 327 35392 341 36874	DESCRIPTION Breather Tube Nut, 1/4-20 Screw, 1/4-20 x 1" * Carburetor To Intake Pipe Gasket Intake Pipe Governor Link Control Bracket (Incl. 206, 210 & 211) Terminal Throttle Link Screw, 10-32 x 1/2" Conduit Clip Screw, 10-32 x 3/8" Screw, 10-32 x 1/2" * Intake Pipe Gasket Screw, 10-32 x 1/2" * Air Cleaner Gasket Air Cleaner Filter Air Cleaner Filter Air Cleaner Filter (Poly) Air Cleaner Filter (Poly) Air Cleaner Filter (Poly) Air Cleaner Filter (Poly) Air Cleaner Folder Air Cleaner Filter Air Cleaner Folder * Air Cleaner Filter Air Cleaner Ai
82 30591 83 36057 86 650488 89 610961 90 611205 92 650815 93 650816 100 34443A 101 610118 103 651007 110 36054 119 36719 120 36721 125 36471 125 36472	Governor Gear Ass'y (Incl. 81) Governor Spool Screw, 1/4-20 x 1-1/4" Flywheel Key Flywheel Belleville Washer Flywheel Nut Solid State Ignition Spark Plug Cover Screw, Torx T-15, 10-24 x 15/16" Ground Wire * Cylinder Head Gasket Cylinder Head Exhaust Valve (Std.) (Incl. 151) Exhaust Valve (1/32" OS) (Incl. 151)	308 36651 309 651011 310 36878 313 34080 325 29443 327 35392 340 36876 341 36644 342 651010 342A 650738 370A 36261 380 640025 390 590704 400 36720	Screw, 1/4-20 x 5/8" Lubrication Decal Carburetor (Incl. 184) Rewind Starter Gasket Set (Incl. Items Marked * in Notes)
126 29314B 126 29315C 130 650912 130A 650999 135 34645 150 31672 151 31673 153 36649 154 650913 155 35624A 157 650914 158 36629 159 35626 160 36630A 161 651008	Intake Valve (Std.) (Incl. 151) Intake Valve (1/32" OS) (Incl. 151) Screw, 5/16-18 x 1-1/2" Screw, 5/16-18 x 2-41/64" Resistor Spark Plug (RN4C) Valve Spring Valve Spring Cap Push Rod Guide Rocker Arm Nut, 1/4-28 Push Rod * Rocker Arm Cover Gasket Rocker Arm Cover Screw, 1/4-20 x 31/64"	417 650760 600 651013 900 — 900 — (NOTE: This enginent of the starter.)	Spark Arrestor Kit (Incl. 417) (Optional) Screw, 8-32 x 3/8" Washer Replacement Engine - None Replacement S/B 754295, order from 71-999 RPM High 3050 to 3350 RPM Low 1650 to 1950 ine could have been built with 590746 enent dimensions given in U.S. inches
		30	

TILLER - - MODEL NUMBER 917.293650 ENGINE, CRAFTSMAN - - MODEL NUMBER 143.976001







KEY NO.	PART NO.	DESCRIPTION
	640025	Carburetor (Incl. 184 or Engine Parts list)
1	631615	Throttle Shaft & Lever Assembly
2	631767	Throttle Return Spring
4	631767 631184	Dust Seal Washer
5	631183	Dust Seal (Throttle)
6	631036	Throttle Shutter
5 6 7	650506	Shutter Screw
	632164	Fuel Fitting
17	650417	Throttle Crack Screw/
		Idle Speed Screw
18	630766	Tension Spring
20	640018	Idle Restrictor Screw
	640053	Idle Restrictor Screw Cap
	631867	Float Bowl
27		Float Shaft
	632019	Float
29		Float Bowl "O" Ring
	631021	Inlet Needle, Seat, & Clip (Incl. 31)
31		Spring Clip
35		Primer Bulb/Retainer Ring
	640019	Main Nozzle Tube
	632547	"O" Ring, Main Nozzle Tube
	640015	High Speed Bowl Nut
	27110	Bowl Nut Washer
	630748	Welch Plug, Idle Mixture Well
48	631027	Welch Plug, Atmospheric Vent

KEY PART NO. NO.

DESCRIPTION

*******	590704	Recoil Starter
1	590599A	Spring Pin (Incl. 4)
2	590600	Washer
3	590696	Retainer
4	590601	Washer
5	590697	Brake Spring
6	590698	Starter Dog
7	590699	Dog Spring
8	590700	Pulley & Rewind Spring Ass'y.
11	590705	Starter Housing Ass'y.
12	590535	Starter Rope (98" X 9/64" dia.)
13	590701	Starter Handle

KEY PART NO. NO.

DESCRIPTION

	590746	Recoil Starter
1	590599A	Spring Pin (Incl. 4)
2	590600	Washer
3	590679	Retainer
4	590601	Washer
5	590678	Brake Spring
6	590680	Starter Dog
7	590412	Dog Spring
8	590681	Pulley & Rewind Spring Assembly
11	590747	Starter Housing Assembly
12	590535	Starter Rope
		(Length 98" x 9/64" dia.)
13	590701	Starter Handle

SEARS OWNER'S MANUAL

MODEL NO. 917.293650

IF YOU NEED REPAIR SERVICE OR PARTS:

FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER:

1-800-4-REPAIR (1-800-473-7247)

FOR REPLACEMENT PARTS INFORMATION AND ORDERING, CALL THIS TOLL FREE NUMBER:

1-800-FON-PART (1-800-366-7278)

6.0 HP 17 INCH TINE WIDTH REAR TINE TILLER WITH COUNTER ROTATING TINES

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 your engine will be found on the blower housing of the engine.

All parts listed herein may be ordered from any Sears, Roebuck and Co. Service Center/Department and most Retail Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PRODUCT REAR TINE TILLER
- MODEL NUMBER 917.293650
- ENGINE MODEL NUMBER 143.976001
- 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., Hoffman Estates, IL 60179 U.S.A.