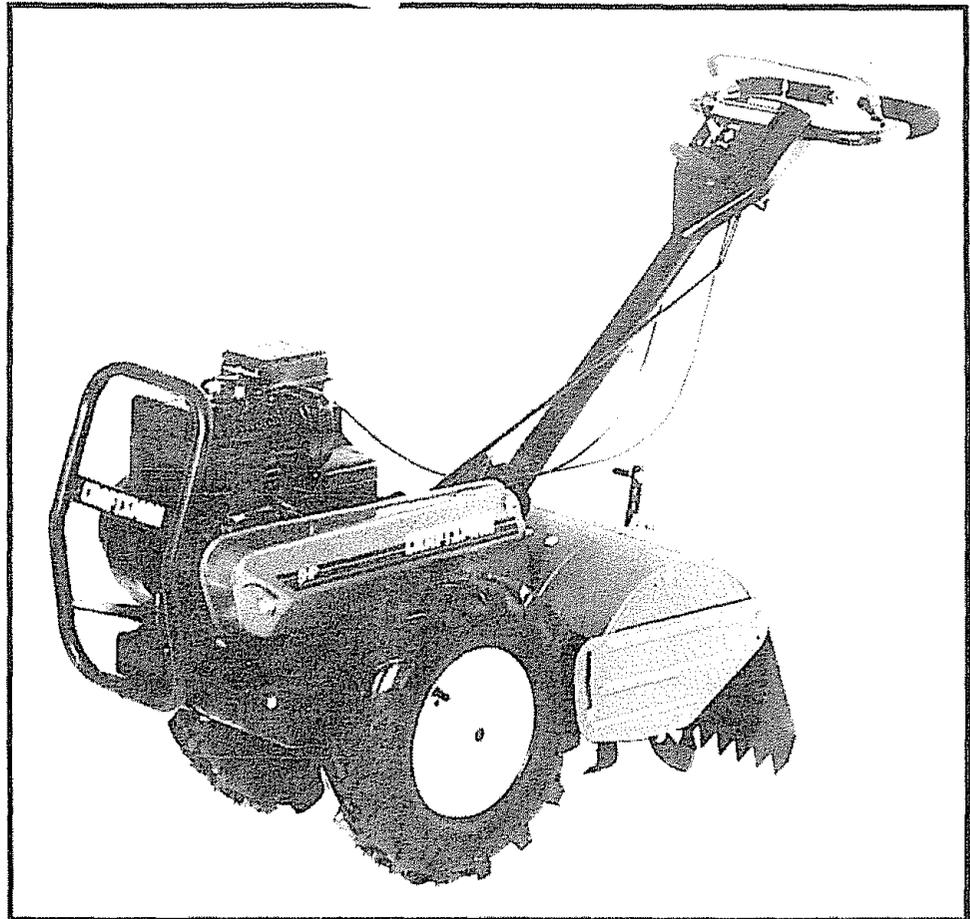


SEARS

**OWNER'S
MANUAL**

**MODEL NO.
917.299850**

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



CRAFTSMAN[®]

5.0 HP

17 INCH TINE WIDTH

REAR TINE TILLER WITH

COUNTER ROTATING TINES

- Assembly
- Operation
- Customer Responsibilities
- Service and Adjustment
- 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 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.
- 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 -

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



CAUTION: Look for this symbol to point out important safety precautions. It means —Attention! Become Alert! Your safety is involved.

IMPORTANT: 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 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 917.299850
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:	5.0 HP
DISPLACEMENT:	12.57 cu. in.
GASOLINE CAPACITY:	3 Quarts Unleaded Regular
OIL: (CAPACITY: 20 OZ.)	SAE 30 or 10W-30 WINTER: 5W-30
SPARK PLUG: (GAP: .030 IN.)	Champion RJ19LM (STD361458)

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.

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/731CR-W SEARS TOWER, CHICAGO, IL 60684

- 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 for spark arrester. Refer to the Repair Parts section of this manual for part number.

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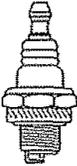
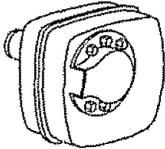
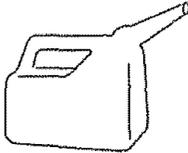
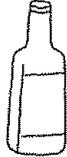
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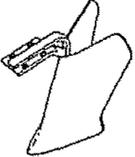
ACCESSORIES

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.

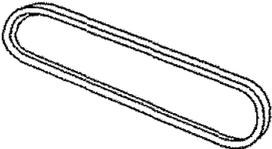
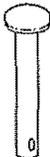
ENGINE

SPARK PLUG	MUFFLER	AIR FILTER	GAS CAN	ENGINE OIL	STABILIZER
					

TILLER PERFORMANCE

FURROW OPENER


TILLER MAINTENANCE

BELT	TINES	CLEVIS PIN	HAIRPIN CLIP
			

ASSEMBLY

TO ASSEMBLE YOUR TILLER YOU WILL NEED:

- (1) Utility knife
- (1) Wire cutter
- (1) Screwdriver
- (1) Tire pressure gauge
- (1) Pair of pliers
- (1) 9/16" wrench (or 9/16" socket, ratchet, and extension; or adjustable wrench)

OPERATOR'S POSITION (See Fig. 1)

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.

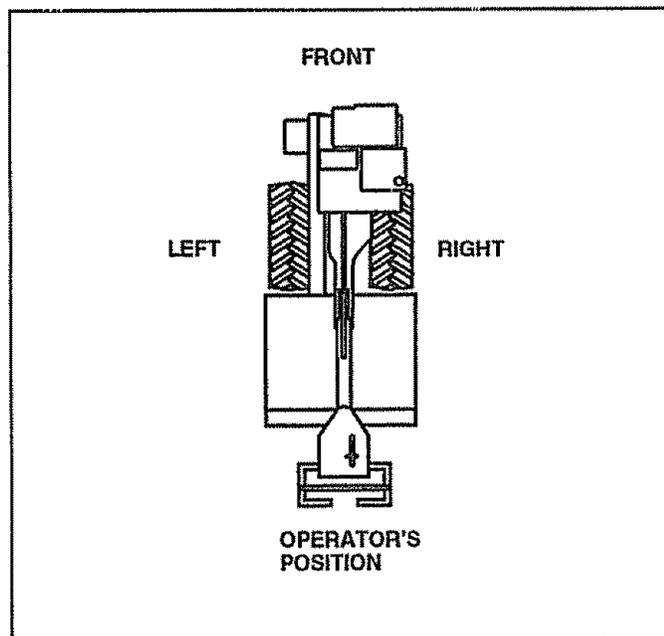
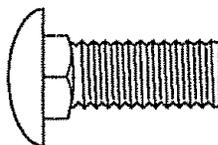


FIG. 1

CONTENTS OF HARDWARE PACK



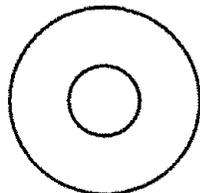
(2) Handle Locks



(2) Carriage Bolts 3/8-16 UNC x 1 Gr. 5



(2) Center Locknuts 3/8-16 UNC



(1) Flat Washer 13/32 x 1 x 11 Ga.



(1) Handle Lock Lever



(2) Hairpin Clips



(1) Cable Clip



(1) Owner's Manual

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.

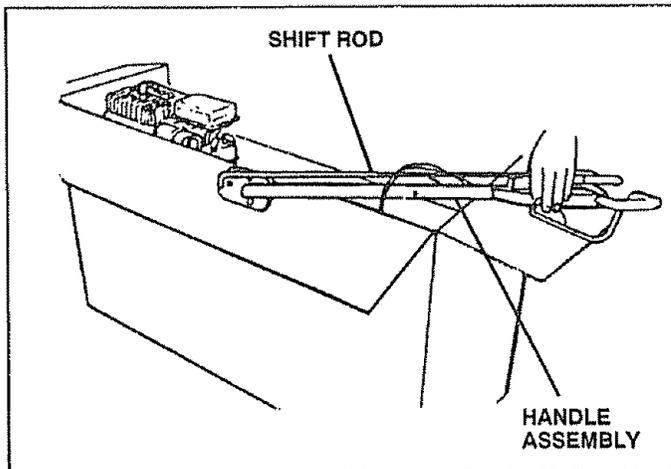


FIG. 2

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.)

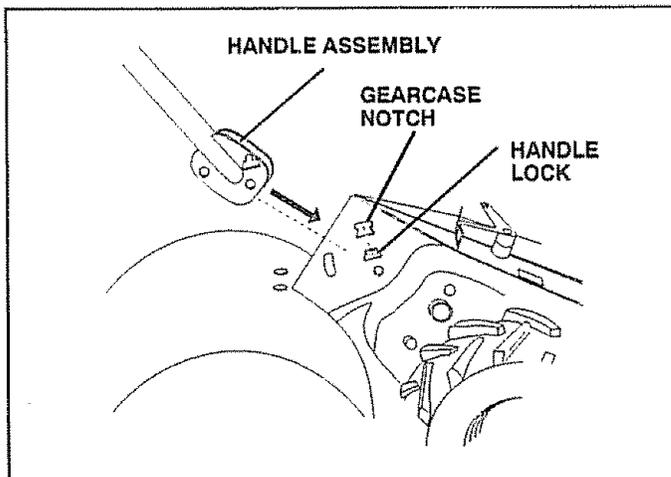


FIG. 3

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

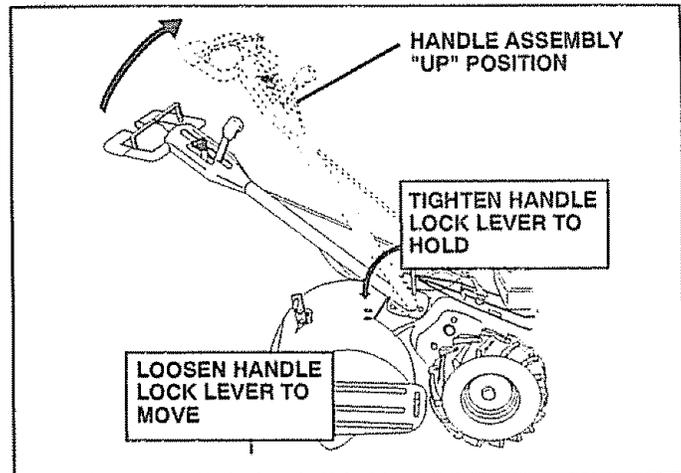


FIG. 4

- Rotate handle assembly down to install two carriage bolts and locknuts. 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.
- 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.

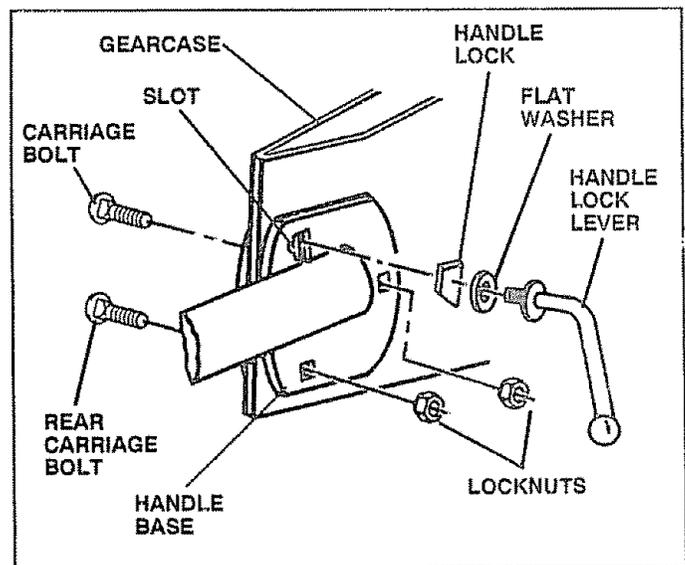


FIG. 5

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.

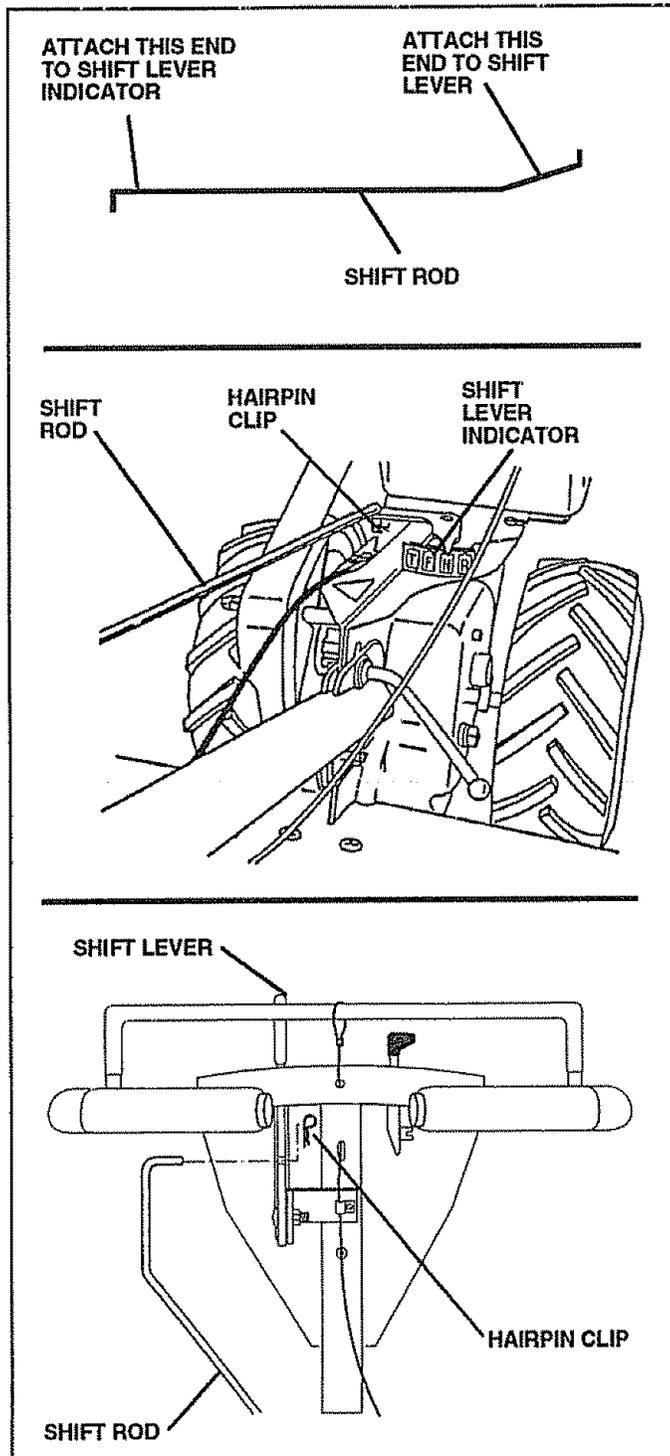


FIG. 6

REMOVE TILLER FROM CRATE

- 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.

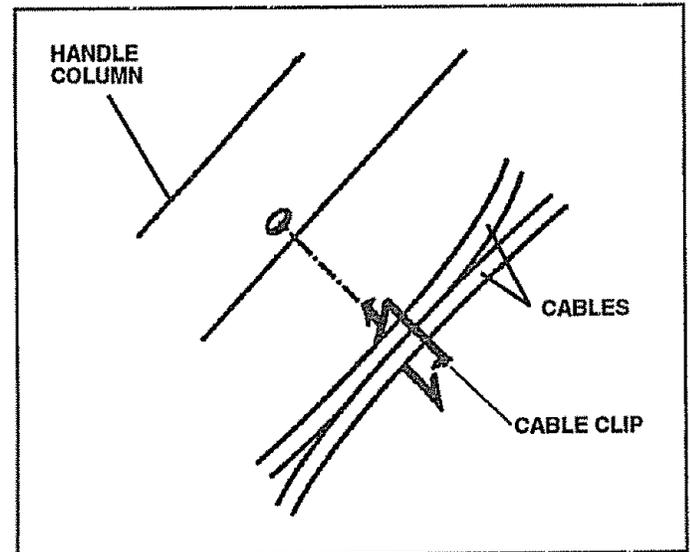


FIG. 7

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).

OPERATION

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.

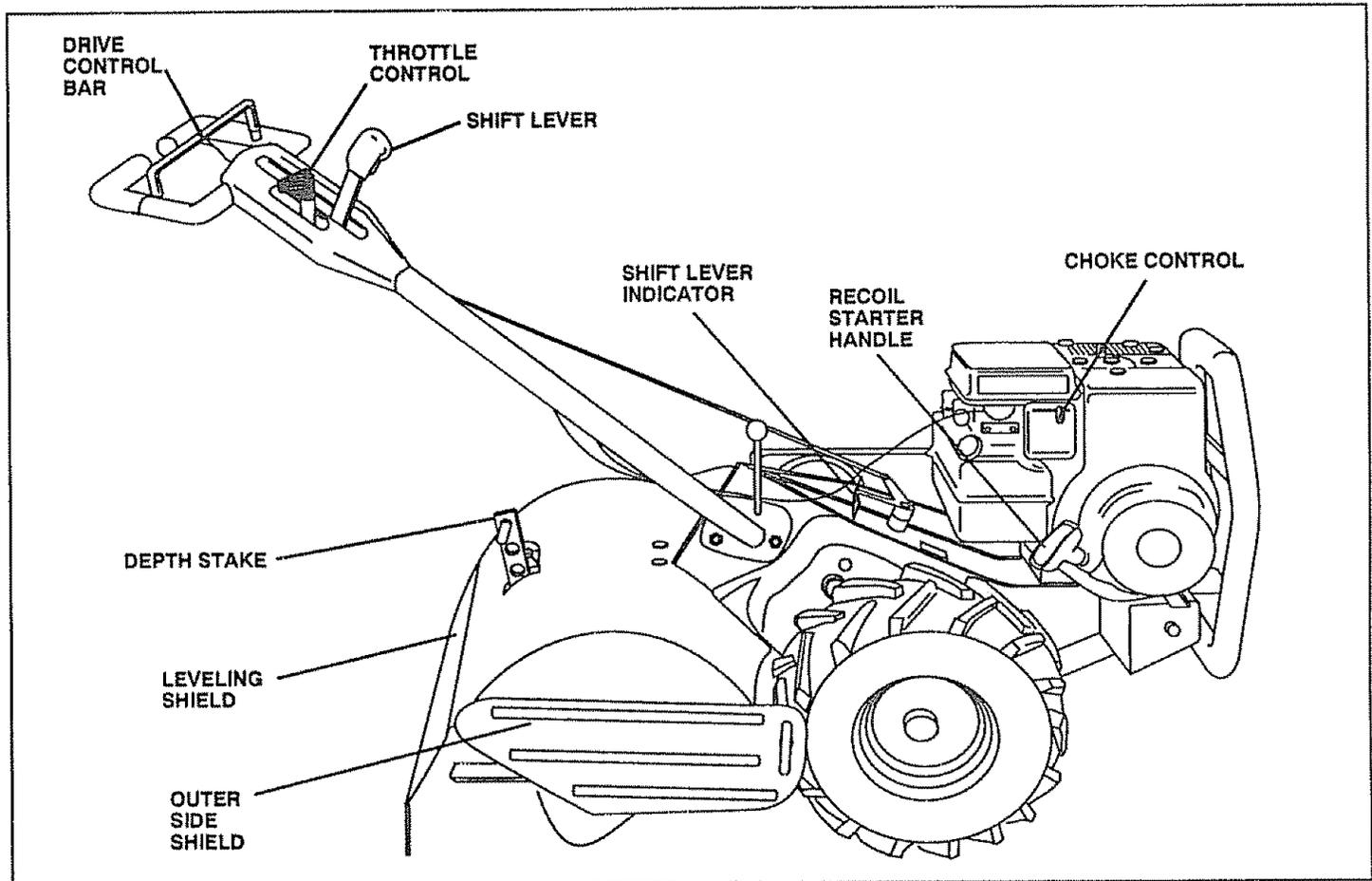


FIG. 8

MEETS ANSI SAFETY REQUIREMENTS

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

DRIVE CONTROL BAR - Used to engage tines.

DEPTH STAKE - Controls depth at which tiller will dig.

LEVELING SHIELD - Levels tilled soil.

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

THROTTLE CONTROL - Used to control engine speed.

SHIFT LEVER - Used to shift transmission gears.

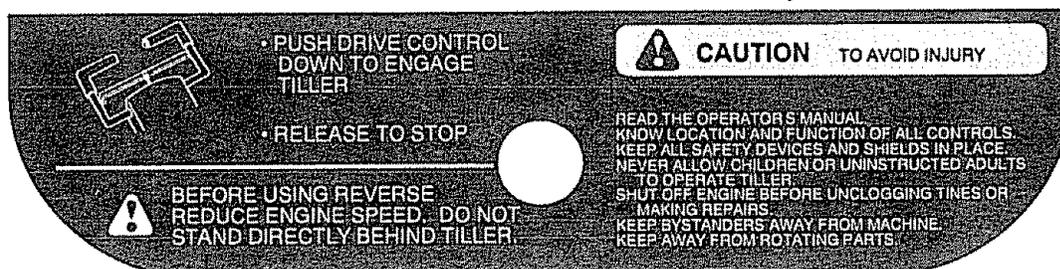
SHIFT LEVER INDICATOR - Shows which gear the transmission is in.

RECOIL STARTER HANDLE - Used to start the engine.

CHOKE CONTROL - Used when starting a cold engine.

SAFETY DECAL

The decal shown below is located on the handle of your tiller.



OPERATION



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.

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.

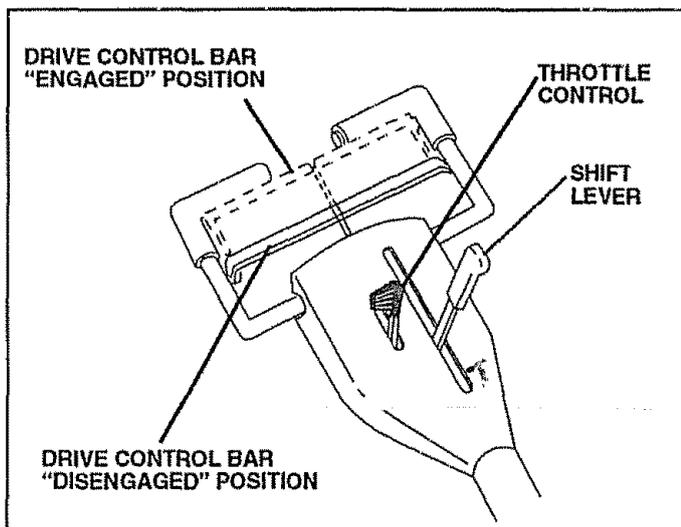


FIG. 9

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 - WHEELS ONLY/TINES STOPPED

- 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.

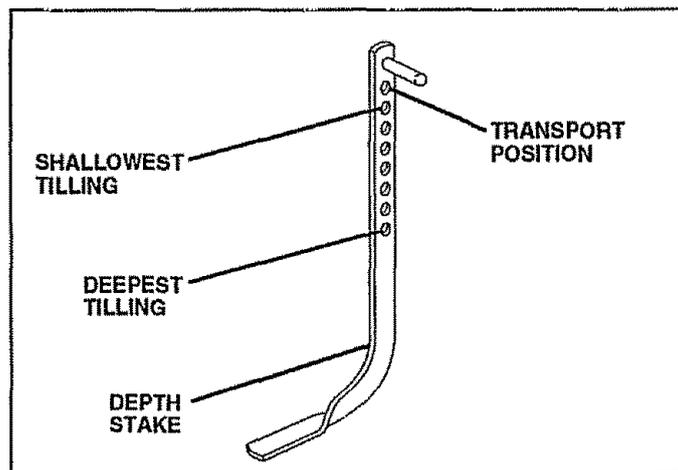


FIG. 10

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.

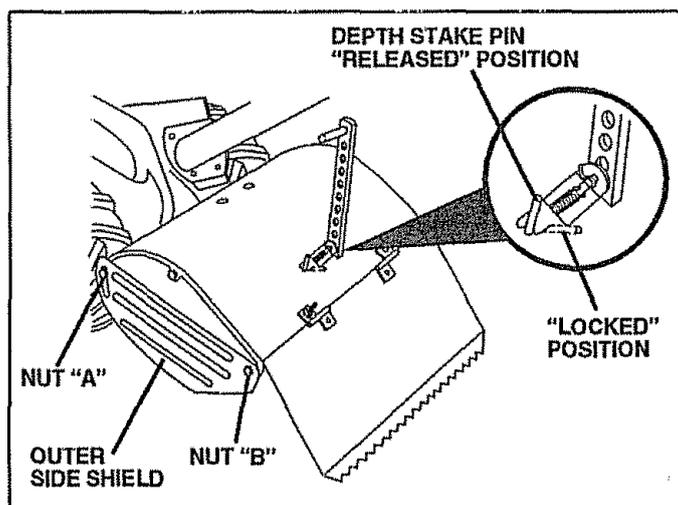


FIG. 11

OPERATION

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.

TRANSPORTING



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

- 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.



CAUTION: Before operating your tiller for the first time, study this section and the "SAFETY RULES" 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 (See Fig. 12)

IMPORTANT: BE VERY CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHECKING OR ADDING OIL OR FUEL. USE CLEAN SAE 30 OR 10W30 WEIGHT OIL AND STORE IN APPROVED, CLEAN, COVERED CONTAINERS. ALL OILS MUST MEET A.P.I. SERVICE CLASSIFICATION SG. USE CLEAN FILL FUNNELS.

- The engine in your unit has been shipped, from the factory, already filled with SAE 30 summer weight oil.
- With engine level, clean area around oil filler plug and remove plug.
- Engine oil should be to point of overflowing. For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual. All oil must meet A.P.I. Service Classification 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.

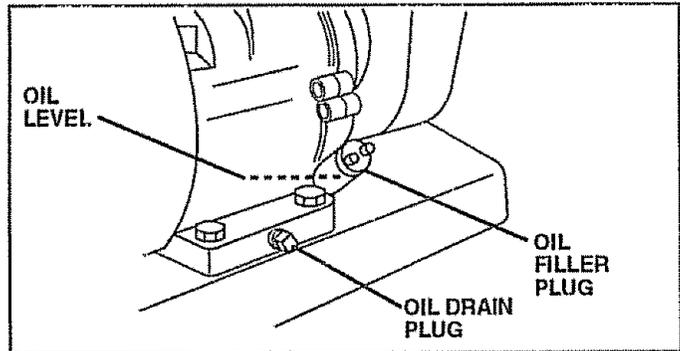


FIG. 12

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 Instructions 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.

OPERATION

TO START ENGINE (See Fig. 13)



CAUTION: Keep the tine control in "OFF" position when starting engine.

- Make sure spark plug wire is properly connected.
- Move 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 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, slowly move choke control on engine halfway between "CHOKE" and "RUN" positions and then to "RUN" position as engine warms up.
- Move throttle control to desired running position.
- Allow engine to warm up for a few minutes before engaging tines.

NOTE: If at a high altitude (above 3000 feet) or in cold temperatures (below 32°F), the carburetor fuel mixture may need to be adjusted for best engine performance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual.

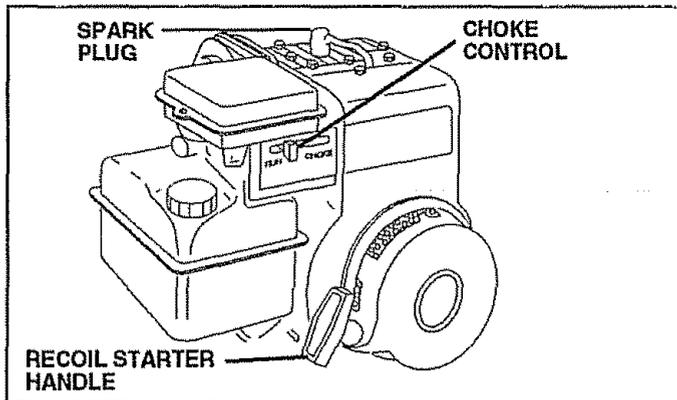


FIG. 13

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.

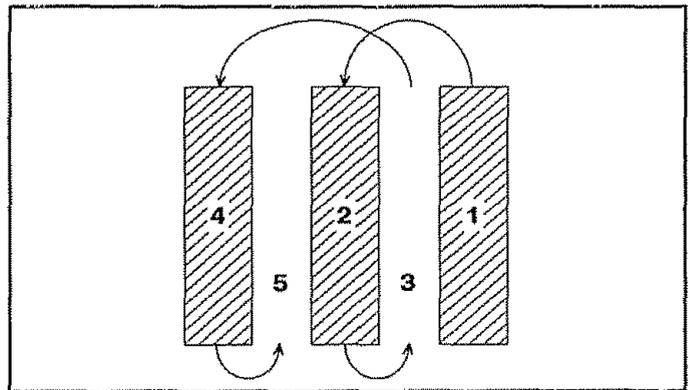


FIG. 14

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).

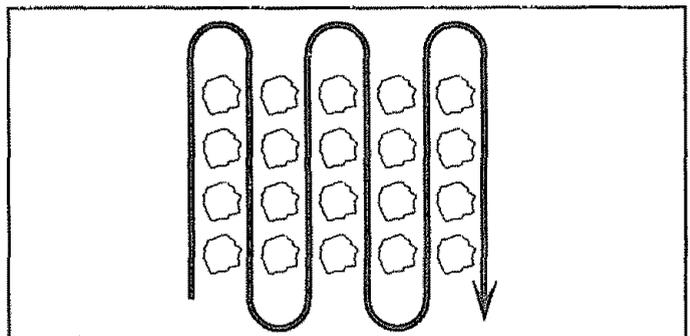


FIG. 15

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						SERVICE DATES																		
	BEFORE EACH USE	FIRST 2 HOURS	EVERY 5 HOURS	EVERY 25 HOURS	EVERY 50 HOURS																			
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE																								
Check Engine Oil Level	✓		✓																					
Change Engine Oil		✓		✓ _{1,2}																				
Oil Pivot Points			✓																					
Inspect Spark Arrester Muffler					✓																			
Inspect Air Screen	✓																							
Replace Air Cleaner Cartridge				✓ ₂																				
Clean Engine Cylinder Fins				✓																				
Replace Spark Plug					✓																			

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

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

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

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

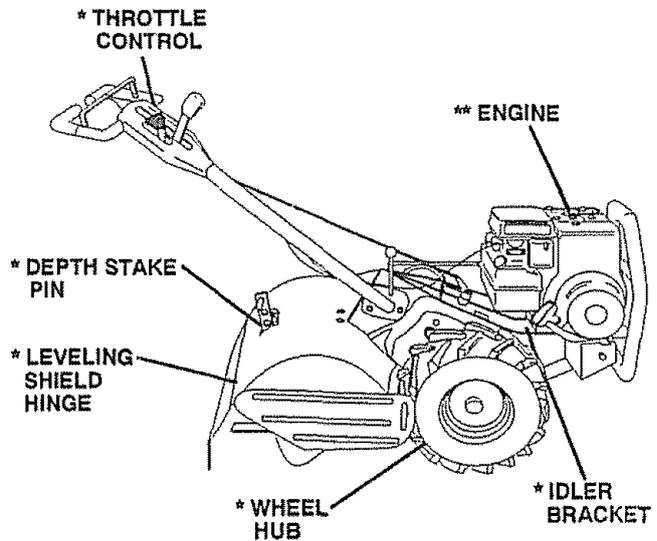
BEFORE EACH USE

- 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

Change the oil after the first two hours of operation and every 25 hours thereafter or at least once a year if the tiller 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. SAE 5W-30 motor oil may be used to make starting easier in areas where temperature is consistently 32° F (0°C) or lower.

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

Determine temperature range expected before oil change. All oil must meet API service classification SG.

- Be sure tiller is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove drain plug.
- Tip tiller forward to drain oil.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Remove oil filler plug. Be careful not to allow dirt to enter the engine.
- Refill engine with oil. See "CHECK ENGINE OIL LEVEL" in the Operation section of this manual.

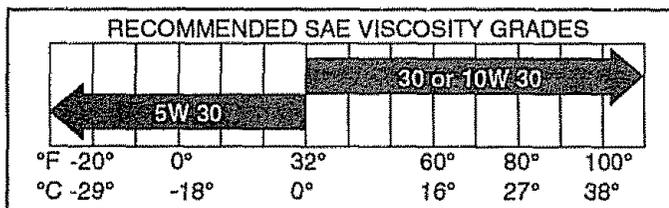


FIG. 16

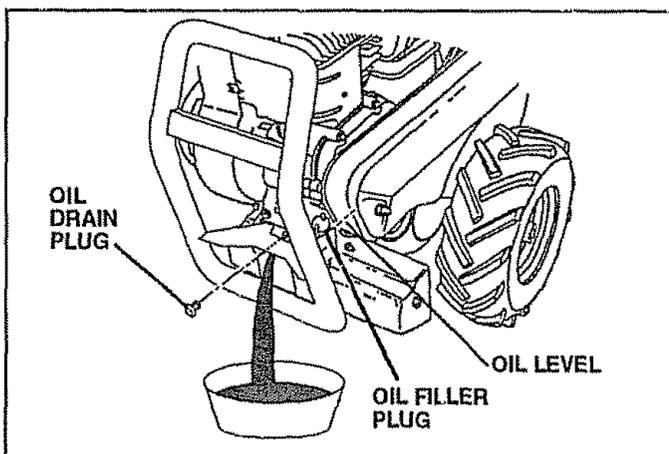


FIG. 17

AIR CLEANER (See Fig. 18)

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.
- 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.

NOTE: Do not attempt to clean or oil the paper cartridge.

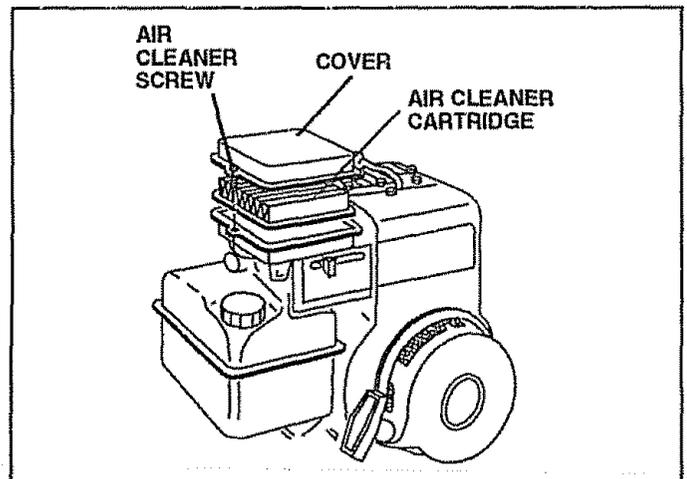


FIG. 18

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.
- Remove blower housing and clean as necessary.
- Keep cylinder fins free of dirt and chaff.

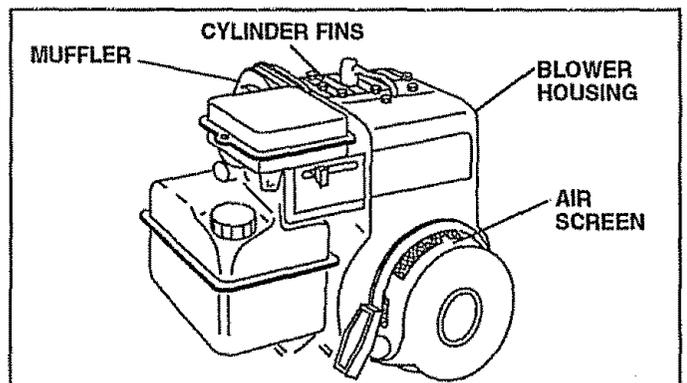


FIG. 19

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 wires 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.

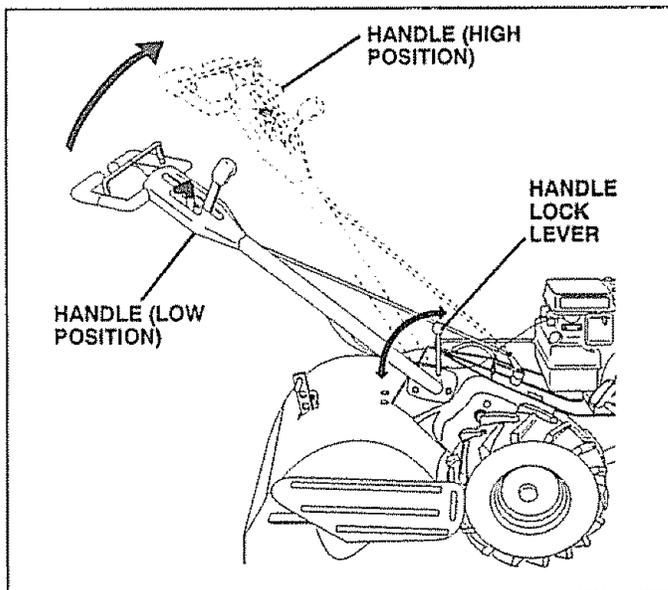


FIG. 20

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" (See Fig. 11).
- Remove hairpin clip and clevis pin from wheel.
- Remove wheel and tire.
- Repair tire and reassemble.

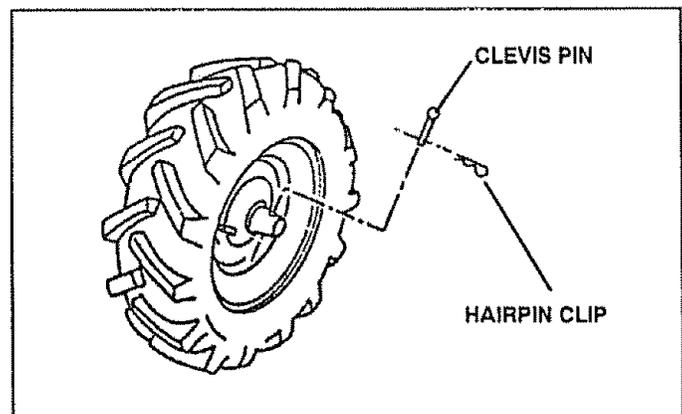


FIG. 21

SERVICE AND ADJUSTMENTS

TO REMOVE BELT GUARD (See Fig. 22)

- Remove L.H. outer side shield by removing nuts "A" and "B" (See Fig. 11).
- 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 guard.
- Remove hex nut and washer from bottom of belt guard (located behind wheel).
- Pull belt guard out and away from unit.
- Replace belt guard by reversing above procedure.

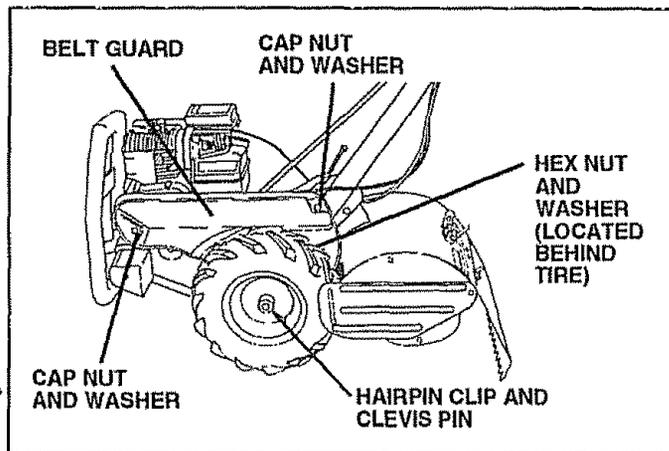


FIG. 22

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

- Remove L.H. outer side shield, move left wheel, and remove belt guard as described in "TO REMOVE BELT GUARD".
- 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 belt guard.
- Reposition wheel and replace clevis pin and hairpin clip.
- Replace outer side shield.

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 "ENGAGED" 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.

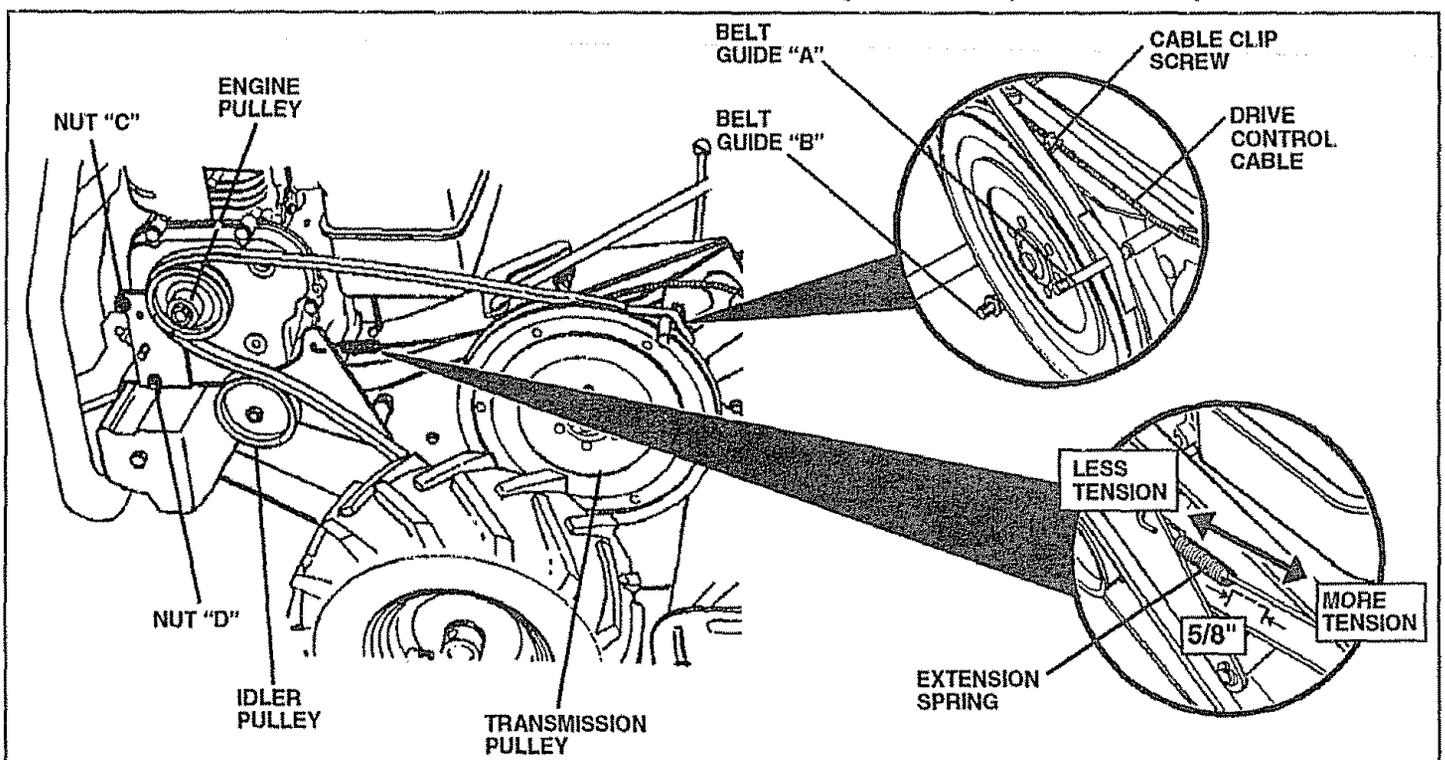


FIG. 23

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.

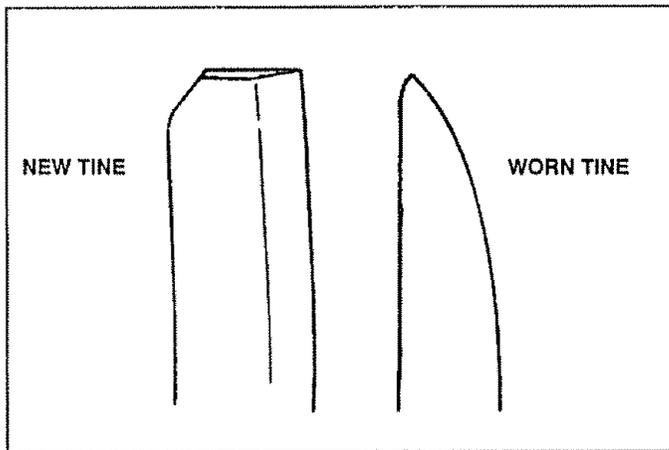


FIG. 24

- 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.

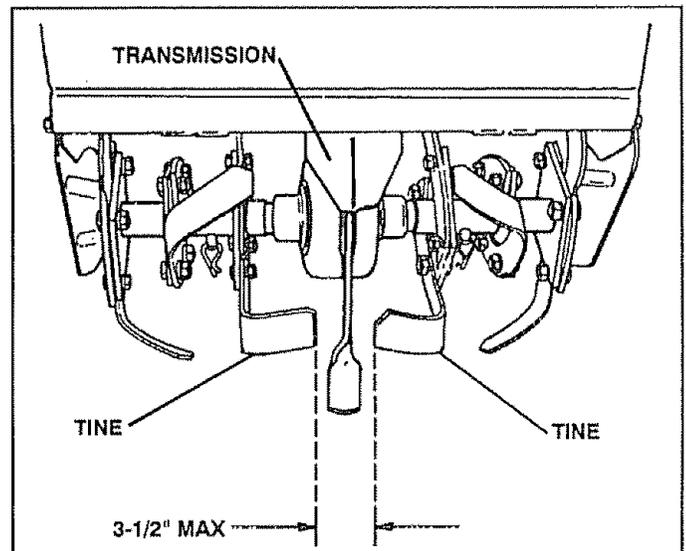


FIG. 25

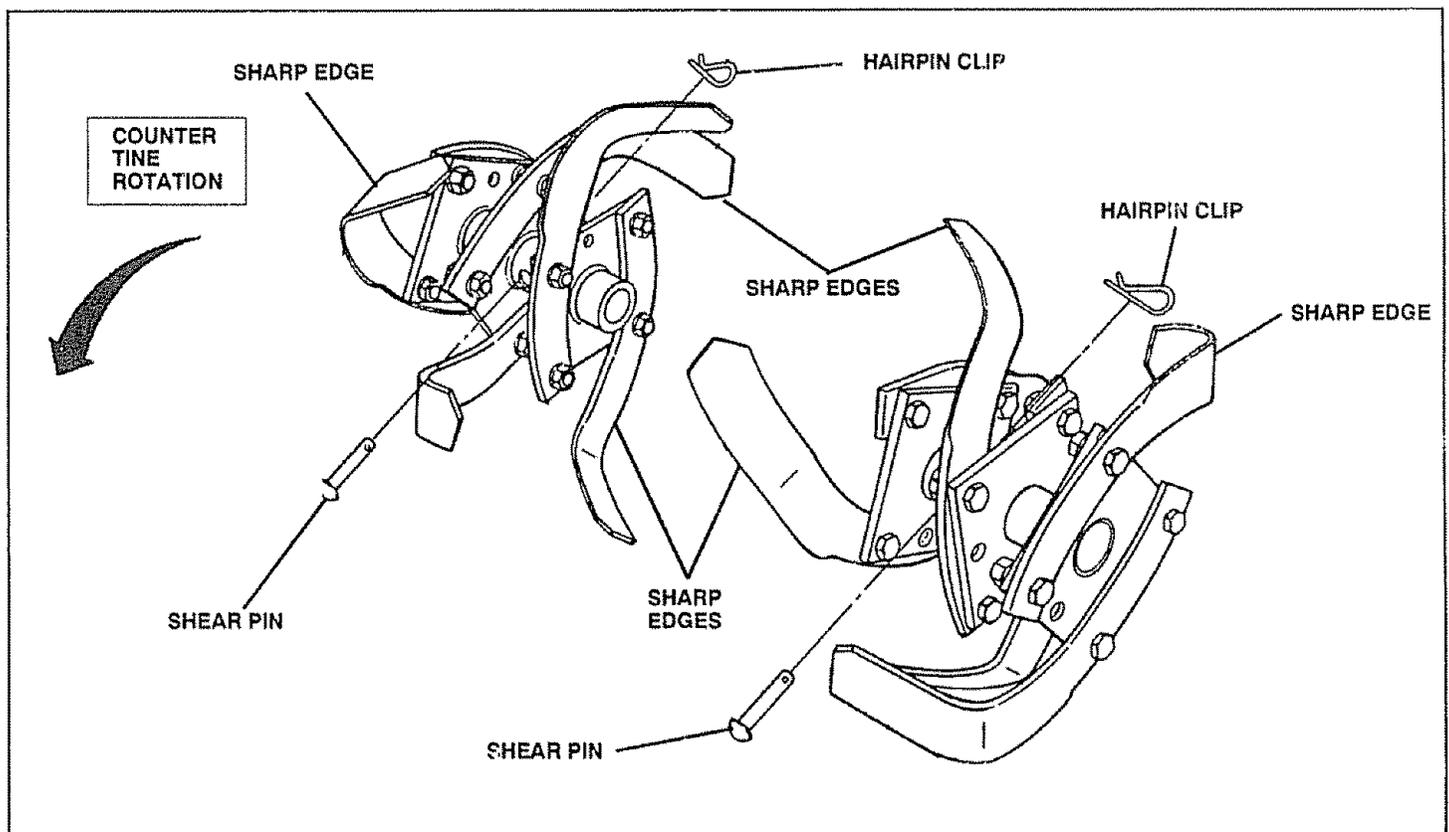


FIG. 26

SERVICE AND ADJUSTMENTS

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 27)

- Loosen cable clamp screw to allow cable to move.
- Move throttle control lever on upper handle to "FAST" position.
- Pull throttle cable out until engine bellcrank is back as far as it will go.
- Hold cable in this position and tighten clamp screw securely.

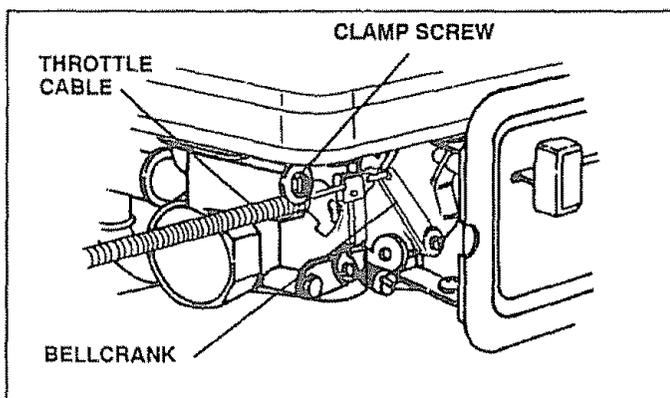


FIG. 27

ENGINE

TO ADJUST CARBURETOR (See Fig. 28)

The carburetor has a high speed jet and has been preset at the factory and adjustment should not be necessary. However, minor adjustments may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows.

In general, turning the idle needle valve in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the needle valve out (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

IMPORTANT: DAMAGE TO THE NEEDLES AND THE SEATS IN CARBURETOR MAY RESULT IF SCREWS ARE TURNED IN TOO TIGHT.

PRELIMINARY SETTING

- Air cleaner assembly must be assembled to the carburetor when making carburetor adjustments.
- Be sure the throttle control cable is adjusted properly (see above).
- With engine off, turn idle needle valve in (clockwise) closing it finger tight and then turn valve out (counterclockwise) 1-1/2 turns.

FINAL SETTING

- Start engine and allow to warm for five minutes. Make final adjustments with engine running at idle and drive control bar in "DISENGAGED" position.
- With throttle control lever in "SLOW" position, turn idle needle valve in (clockwise) until engine begins to die then turn out (counterclockwise) until engine runs rough. Turn valve to a point midway between those two positions.

IDLE RPM ADJUSTMENT

- To adjust idle RPM, rotate throttle linkage counterclockwise and hold against stop while adjusting idle speed adjusting screw to obtain 1750 RPM. Release throttle linkage.

ACCELERATION TEST

- Move throttle control lever from "SLOW" to "FAST" position. If engine hesitates or dies, turn needle valve out (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

High speed stop is factory adjusted. Do not adjust or damage may result.

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 SEARS SERVICE CENTER, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

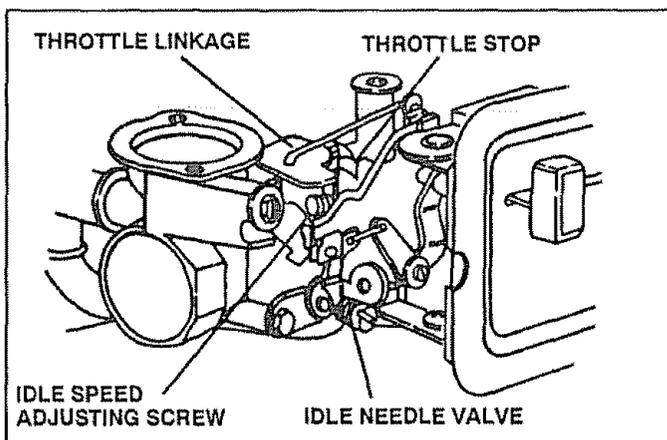


FIG. 28

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.

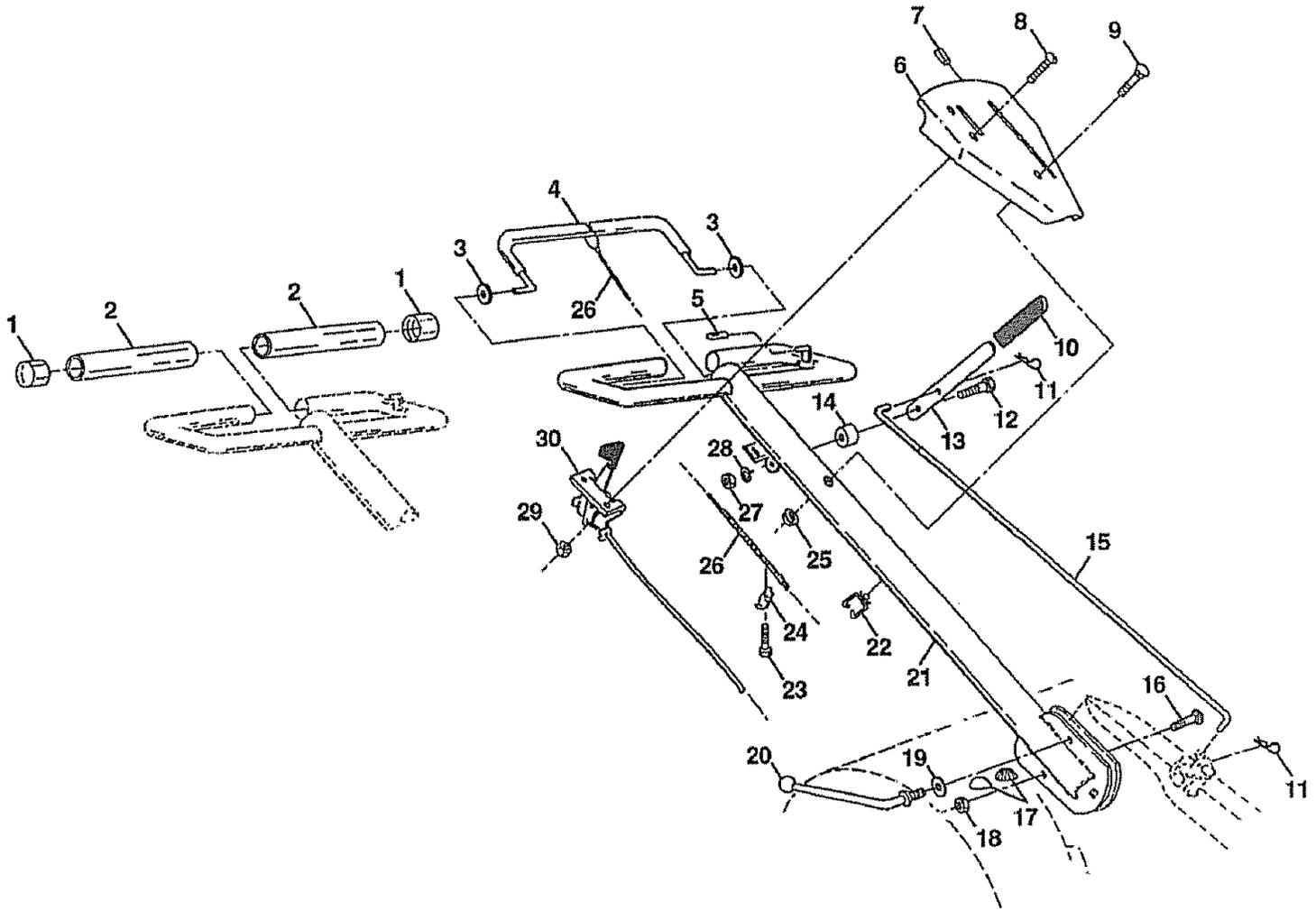
TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Will not start	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Fill fuel tank 2. See "TO START ENGINE" in Operation section. 3. Wait several minutes before attempting to start. 4. Replace air cleaner cartridge. 5. Drain fuel tank and carburetor, and refill tank with fresh gasoline. 6. Remove fuel tank and clean. 7. Make sure spark plug wire is seated properly on plug. 8. Replace spark plug or adjust gap. 9. Make necessary adjustments.
Hard to start	<ol style="list-style-type: none"> 1. Throttle control not set properly. 2. Dirty air cleaner. 3. Bad spark plug or improper gap. 4. Stale or dirty fuel. 5. Loose spark plug wire. 6. Carburetor out of adjustment. 	<ol style="list-style-type: none"> 1. Place throttle control in "FAST" position. 2. Replace air cleaner cartridge. 3. Replace spark plug or adjust gap. 4. Drain fuel tank and refill with fresh gasoline. 5. Make sure spark plug wire is seated properly on plug. 6. Make necessary adjustments.
Loss of power	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Set depth stake for shallower tilling. 2. Replace air cleaner cartridge. 3. Check oil level/change oil. 4. Clean and regap or change spark plug. 5. Drain and clean fuel tank and refill, and clean carburetor. 6. Drain fuel tank and refill with fresh gasoline. 7. Drain fuel tank and carburetor, and refill tank with fresh gasoline. 8. Remove fuel tank and clean. 9. Connect and tighten spark plug wire. 10. Clean engine air screen. 11. Clean/replace muffler. 12. Make necessary adjustments. 13. Contact an authorized Sears Service Center/Department.
Excessive bounce/ difficult handling	<ol style="list-style-type: none"> 1. Ground too dry and hard. 	<ol style="list-style-type: none"> 1. Moisten ground or wait for more favorable soil conditions.
Soil balls up or clumps	<ol style="list-style-type: none"> 1. Ground too wet. 	<ol style="list-style-type: none"> 1. Wait for more favorable soil conditions.
Engine runs but tiller won't move	<ol style="list-style-type: none"> 1. Drive control bar is not engaged. 2. V-belt not correctly adjusted. 3. V-belt is off pulley(s). 	<ol style="list-style-type: none"> 1. Engage drive control. 2. Inspect/adjust V-belt. 3. Inspect V-belt.
Engine runs but labors when tilling	<ol style="list-style-type: none"> 1. Tilling too deep. 2. Throttle control not properly adjusted. 3. Carburetor out of adjustment. 	<ol style="list-style-type: none"> 1. Set depth stake for shallower tilling. 2. Check throttle control setting. 3. Make necessary adjustments.
Tines will not rotate	<ol style="list-style-type: none"> 1. Shear pin(s) broken. 	<ol style="list-style-type: none"> 1. Replace shear pin(s).

REPAIR PARTS

5 HP 17" TILLER - - MODEL NUMBER 917.299850

HANDLES



KEY NO.	PART NO.	DESCRIPTION
1	110707X	Cap, Sleeve
2	110674X	Grip, Handle
3	110673X	Grommet, Handle
4	127254X	Bar, Drive Control Assembly
5	6712J	Cap, Vinyl
6	126948X	Panel, Control
7	110641X	Bushing, Split
8	STD511005	* Screw, Mach. Pan Head. C.R. #10-24 x 1/2
9	STD533125	* Bolt, Carriage 5/16-18 UNC x 2-3/8 Gr. 5
10	110646X	Handle, Grip
11	STD624003	* Clip, Hairpin
12	81328	Bolt, Shoulder
13	110741X	Handle, Shift
14	109313X	Grommet, Rubber
15	110702X	Rod, Shift
16	STD533710	* Bolt, Carriage 3/8-16 x 1 Gr. 5
17	109229X	Lock, Handle
18	STD541437	* Nut, Centerlock 3/8-16
19	19131611	Washer 13/32 x 1 x 11 Ga.
20	109228X	Lever, Lock, Handle

KEY NO.	PART NO.	DESCRIPTION
21	121213X	Handle, Assemble
22	121145X	Clip, Plastic, Cable
23	86777	Screw, Hex, Washer Hd, Slotted #10-24 x 1/2
24	9484R	Clip
25	73970500	Locknut, Hex, Flange
26	110675X	Clutch, Cable
27	STD541025	* Nut, Hex 1/4-20
28	STD551125	* Washer, Lock 1/4
29	STD541462	* Nut, Keps #10-24
30	127012X	Throttle, Control
--	132443	Manual, Owner's
--	120431X	Decal, Hand Placement (Control Panel)
--	127795	Decal, Control Panel
--	121859X	Decal, Caution, Clutch (Control Panel)

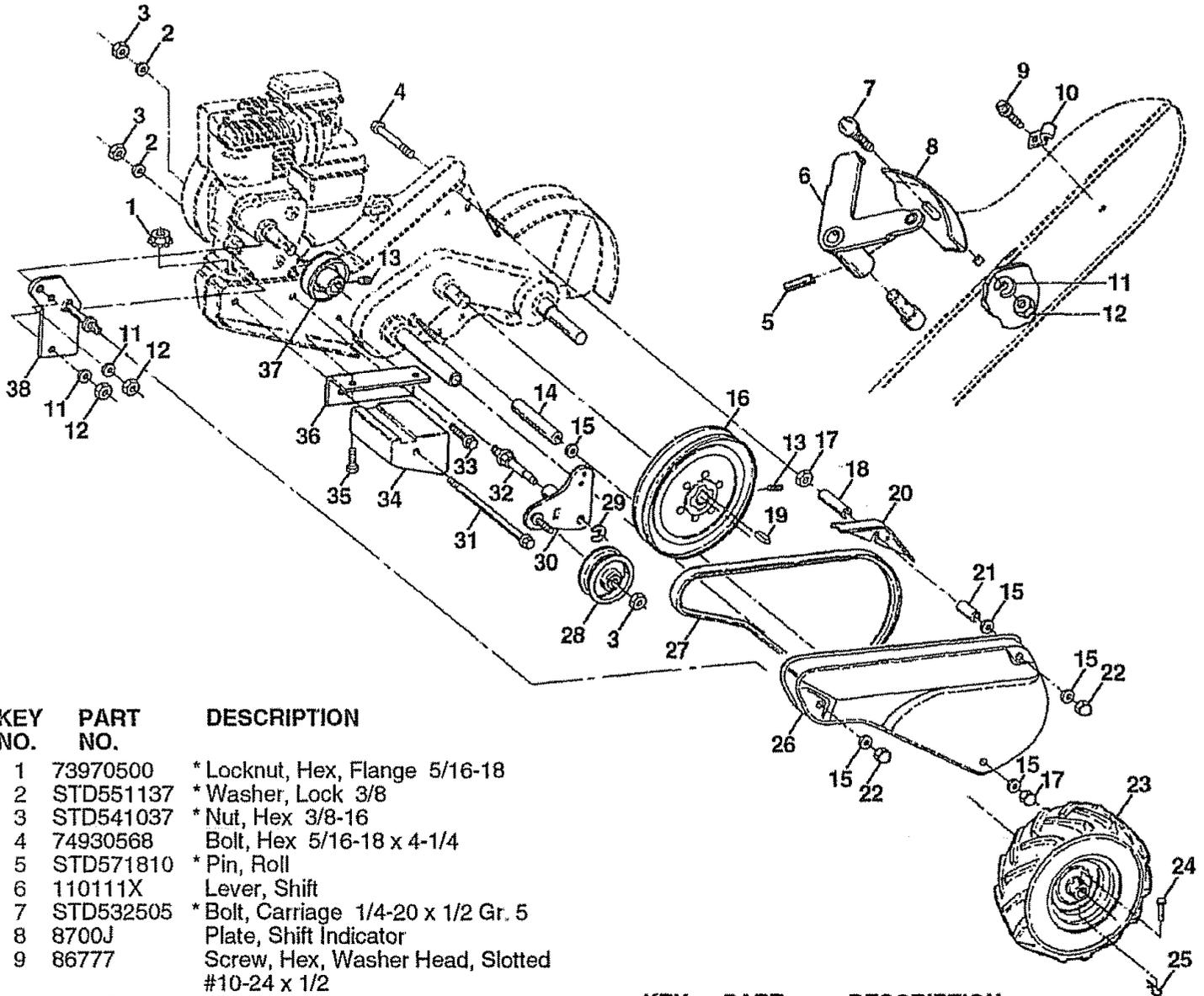
* STANDARD HARDWARE - - PURCHASE LOCALLY

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

REPAIR PARTS

5 HP 17" TILLER -- MODEL NUMBER 917.299850

MAINFRAME, LEFT SIDE



KEY NO.	PART NO.	DESCRIPTION
1	73970500	* Locknut, Hex, Flange 5/16-18
2	STD551137	* Washer, Lock 3/8
3	STD541037	* Nut, Hex 3/8-16
4	74930568	Bolt, Hex 5/16-18 x 4-1/4
5	STD571810	* Pin, Roll
6	110111X	Lever, Shift
7	STD532505	* Bolt, Carriage 1/4-20 x 1/2 Gr. 5
8	8700J	Plate, Shift Indicator
9	86777	Screw, Hex, Washer Head, Slotted #10-24 x 1/2
10	9484R	Clip
11	STD551125	* Washer, Lock 1/4
12	STD541025	* Nut, Hex 1/4-20
13	STD503103	* Screw, Set, Hex 5/16-18 x 3/8
14	120938X	Spacer, Split 0.327 x 0.42 x 2.68
15	STD551031	* Washer 11/32 x 11/16 x 16 Ga.
16	100473M	Sheave, Transmission
17	STD541031	* Nut, Hex 5/16-18
18	110651X	Spacer, Split 0.327 x 0.42 x 1.75
19	2649M	Key, Square 3/16 x 1-1/8
20	110653X	Guard, Pinch Point
21	131691	Spacer, Split 0.327 x 0.42 x 1.627
22	104214X	Nut, Cap 5/16-18
23	5015J	Tire
	128952	Rim
	795R	Tire Valve
24	126875X	Rivet, Drilled
25	STD624003	* Clip, Hairpin
26	131159X459	Guard, Belt
27	132801	Belt, V

KEY NO.	PART NO.	DESCRIPTION
28	104679X	Pulley, Idler
29	12000032	Ring, Klip
30	105611X	Bracket, Idler
31	102384X	Bolt, Hex 5/16-16 x 12
32	102141X	Shaft, Idler Arm
33	STD523710	* Bolt, Hex 3/8-16 x 1
34	102383X	Counterweight, L.H.
35	74760532	Bolt, Hex 5/16-18 x 2
36	102331X	Bracket, Reinforcement, L.H.
37	130812	Sheave, Engine
38	131556	Bracket, Guard Belt
--	102180X	Decal, Shift Indicator
--	132252	Decal, Logo (Belt Guard)

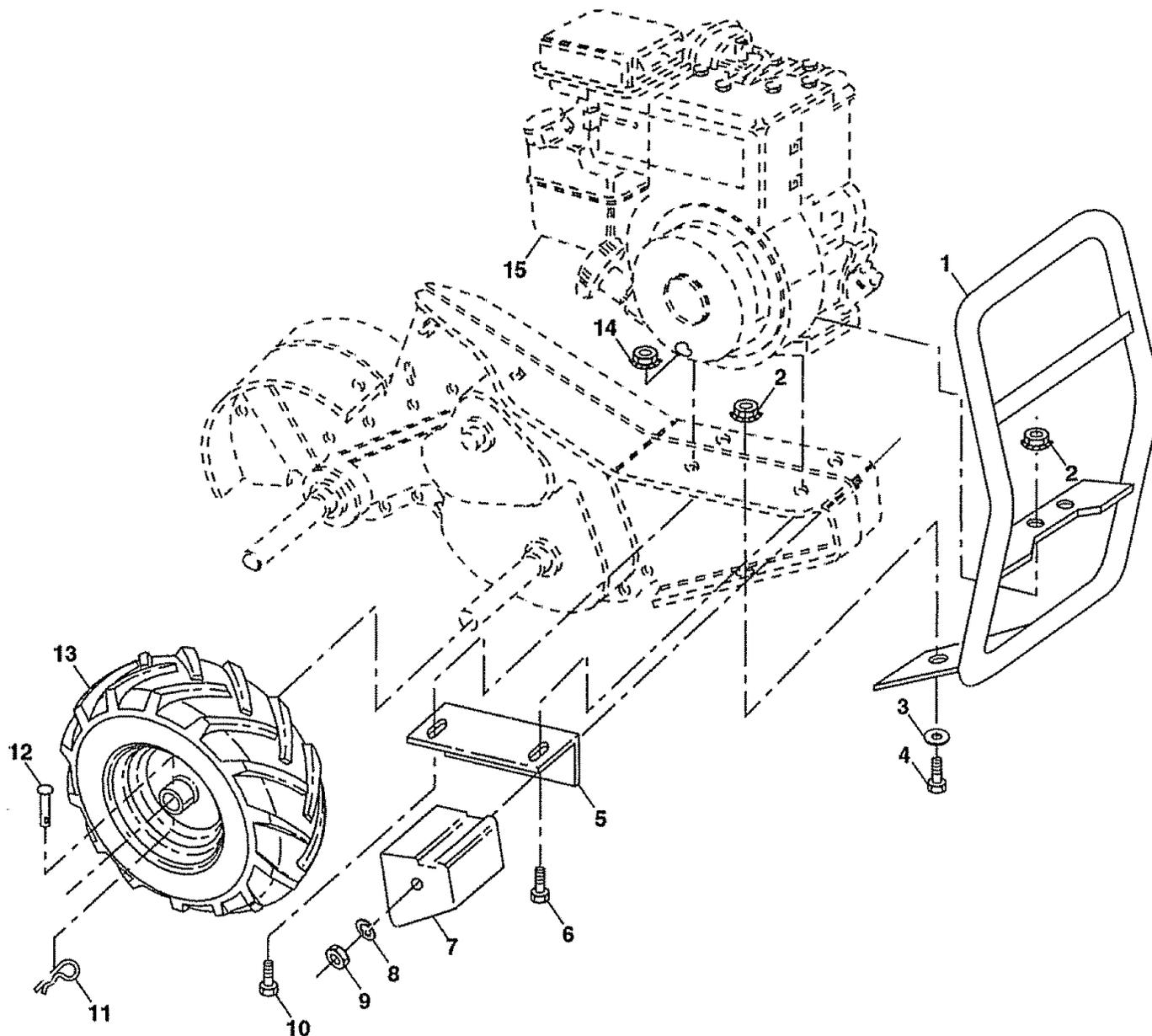
*STANDARD HARDWARE -- PURCHASE LOCALLY

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

REPAIR PARTS

5 HP 17" TILLER - - MODEL NUMBER 917.299850

MAINFRAME, RIGHT SIDE



KEY NO.	PART NO.	DESCRIPTION
1	124551X	Bumper
2	73970500	Locknut, Hex, Flange 5/16-18
3	STD551031	* Washer 11/32 x 11/16 x 16 Ga.
4	74760512	Bolt, Hex 5/16-18 x 3/4
5	102332X	Bracket, Reinforcement
6	74760532	Bolt, Hex 5/16-18 x 2
7	102173X	Counter Weight, R.H.
8	STD551137	* Washer, Lock 3/8
9	STD541037	* Nut, Hex 3/8-16
10	74760524	Bolt, Hex 5/16-18 x 1-1/2
11	STD624003	* Clip, Hairpin
12	126875X	Rivet, Drilled

KEY NO.	PART NO.	DESCRIPTION
13	5015J	Tire
	128952	Rim
	795R	Tire Valve
14	STD541431	* Nut, Keps 5/16-18
15	131877	Engine, Briggs & Stratton Model No. 130202, Type No. 3273-01
--	132402	Decal, Engine
--	124552X	Decal (Bumper)
--	110719X	Decal, Operation and Lubrication

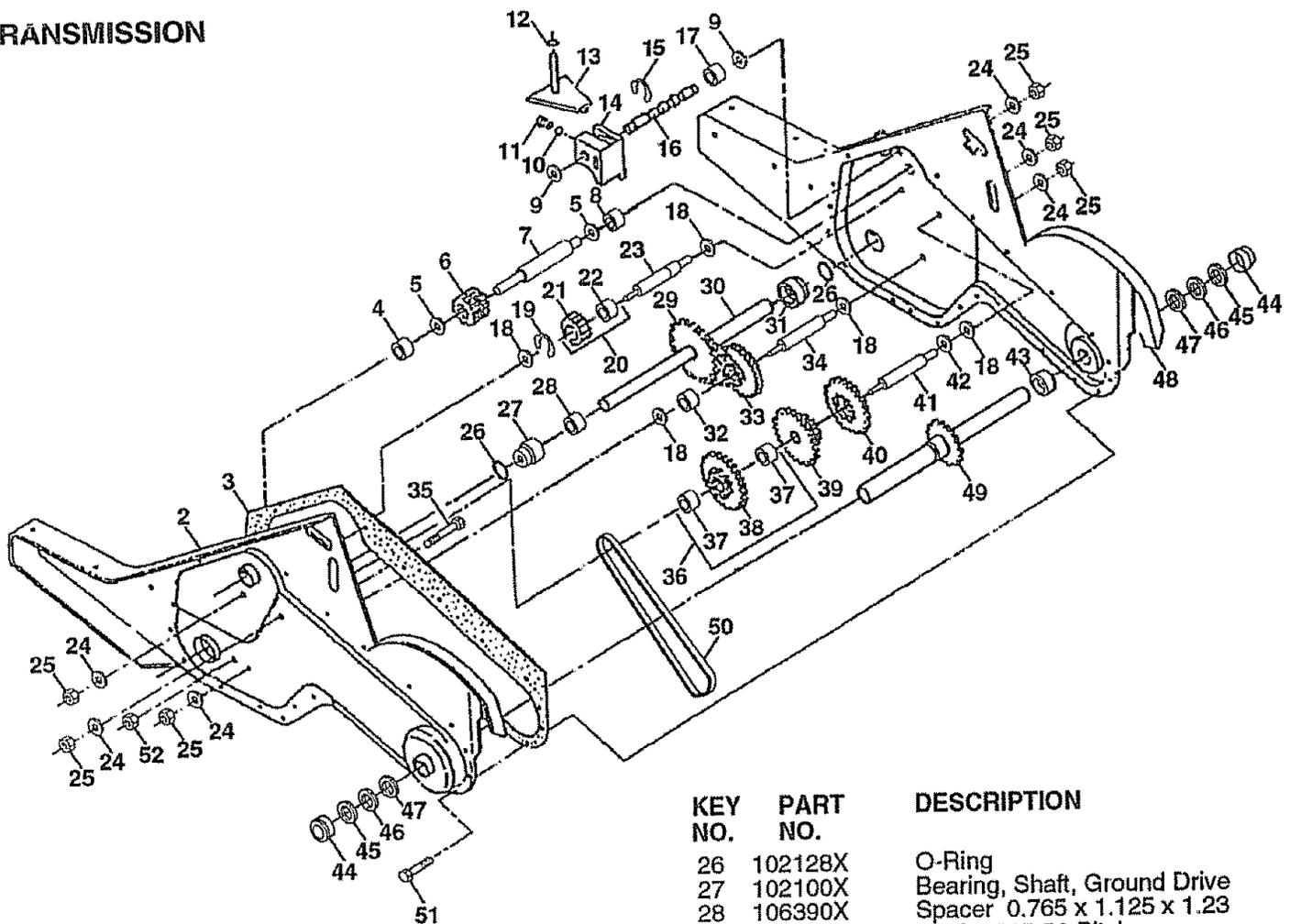
* STANDARD HARDWARE - - PURCHASE LOCALLY

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1 inch = 25.4 mm

REPAIR PARTS

5 HP 17" TILLER - - MODEL NUMBER 917.299850

TRANSMISSION



KEY NO.	PART NO.	DESCRIPTION
1	132724	Transmission Assembly (Includes Key Nos. 2-52)
2	121147X	Gearcase, L.H. w/Bearing (Includes Key No. 4)
3	106211X	Gasket, Gearcase
4	5020J	Bearing, Needle
5	1370H	Washer, Thrust 5/8 x 1.10 x 1/32
6	102113X	Pinion, Input
7	102110X	Shaft, Input
8	4895H	Bearing, Needle
9	102136X	Washer, Seal
10	7392M	Ball, Steel
11	100371K	Spring, Shift, Fork
12	106160X	O-Ring
13	102107X	Arm, Shift
14	8353J	Fork, Shift
15	12000039	Ring, Klip
16	102109X	Shaft, Shift
17	104159X	Spacer, Split
18	4358J	Washer
19	12000040	Ring, Klip
20	102114X	Gear, Assembly, Reverse Idler (Includes Key Nos. 21 and 22)
21	102115X	Gear, Reverse Idler
22	6803J	Bearing, Needle
23	102111X	Shaft, Reverse Idler
24	STD551143	* Washer, Lock 7/16
25	STD551143	* Nut, Hex 7/16-20

KEY NO.	PART NO.	DESCRIPTION
26	102128X	O-Ring
27	102100X	Bearing, Shaft, Ground Drive
28	106390X	Spacer 0.765 x 1.125 x 1.23
29	102134X	Chain #35-50 Pitch
30	124458X	Ground Shaft Assembly
31	102106X	Bearing, Shaft, Ground Drive
32	106388X	Spacer 0.70 x 1.00 x 1.150
33	102121X	Sprocket and Gear Assembly
34	102112X	Shaft, Reduction (2nd)
35	102101X	Screw, Whiz, Lock 5/16-18 x 3-1/2
36	124358X	Sprocket Assembly w/Bearing (Includes Key Nos. 37 and 38)
37	4422J	Bearing, Needle
38	124359X	Sprocket, Tine
39	105345X	Gear, Cluster, Red 1st & 2nd
40	105346X	Gear, Reverse
41	8358J	Shaft, Reduction (1st)
42	4220R	Washer, Thrust
43	106146X	Spacer 1.01 x 1.75 x 0.760
44	9672R	Cup, Formed
45	102144X	Ring, Spiral
46	9676R	Seal, Ring, Rubber
47	9674R	Seal, Oil
48	121745X	Gearcase, R.H. w/Bearing (Includes Key No. 8)
49	132688	Shaft, Tine
50	124361X	Chain, Roller #50-50 Pitch
51	17580408	Screw 1/4-20 x 1/2
52	STD541031	* Nut, Hex 5/16-18
--	6066J	Grease, Plastilube #1

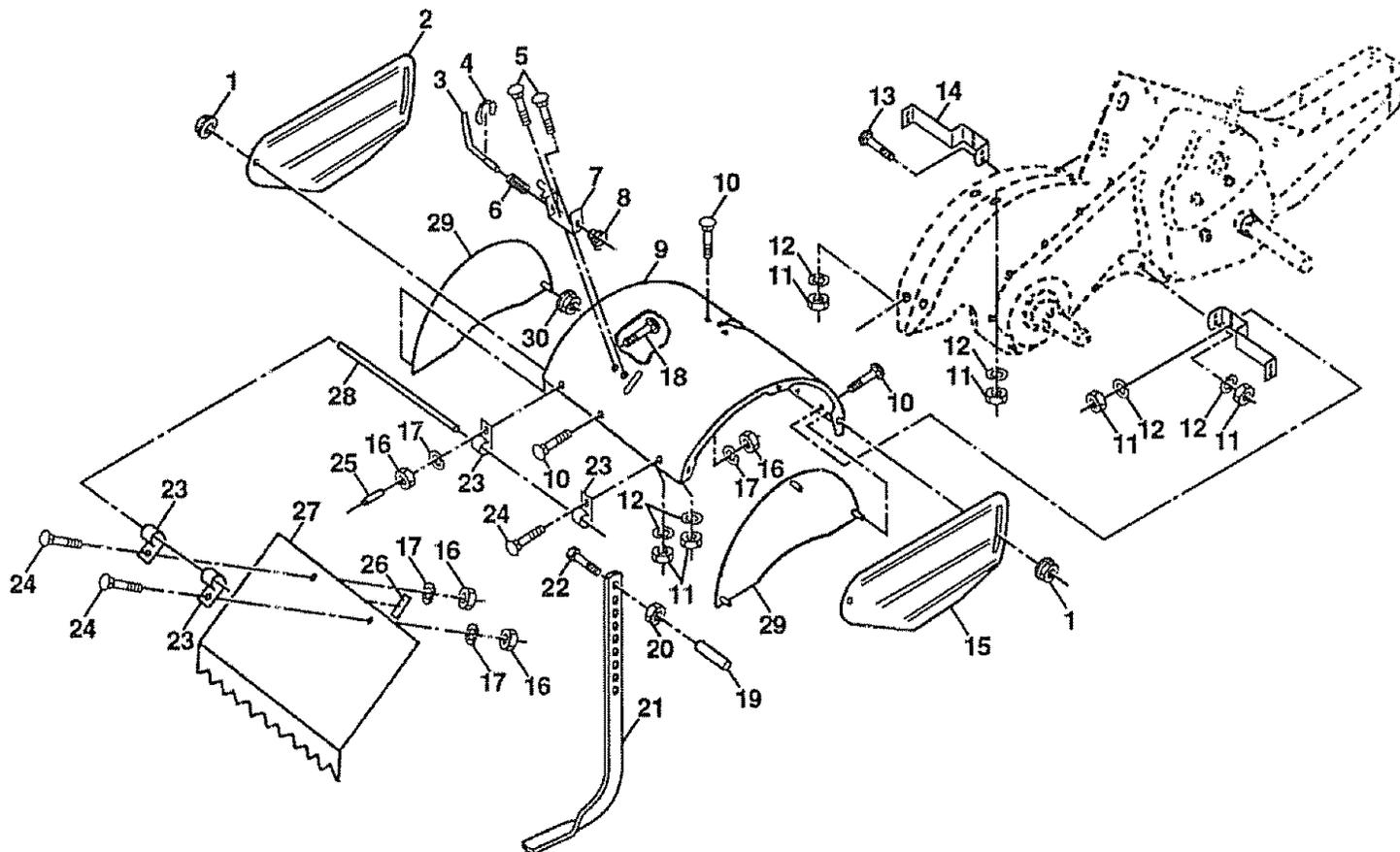
* STANDARD HARDWARE - - PURCHASE LOCALLY

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

REPAIR PARTS

5 HP 17" TILLER - - MODEL NUMBER 917.299850

TINE SHIELD



KEY NO.	PART NO.	DESCRIPTION
1	98000129	Nut, Flange 5/16-18
2	104086X459	Shield, Side, Outer L. H.
3	8393J	Pin, Stake, Depth
4	12000036	Ring, Klip
5	72110508	Bolt, Carriage 5/16-18 x 1
6	8394J	Spring
7	8392J	Bracket, Latch
8	109230X	Spring, Depth Stake
9	124289X459	Shield, Tine
10	STD533107	* Bolt, Carriage 5/16-18 x 3/4 Gr 5
11	STD541031	* Nut, Hex 5/16-18
12	STD551131	* Washer, Lock 5/16
13	72110510	Bolt, Carriage 5/16-18 x 1-1/4
14	124311X	Bracket, Shield Tine
15	104101X459	Shield, Side, Outer R.H.
16	STD541025	* Nut, Hex 1/4-20
17	STD551125	* Washer, Lock 1/4
18	STD532512	* Bolt, Carriage 1/4-20 x 1-1/4 Gr. 5

KEY NO.	PART NO.	DESCRIPTION
19	102701X	Grip
20	STD541037	* Nut, Hex 3/8-16
21	102156X	Stake, Depth
22	74930632	Bolt, Hex 3/8-16 x 2
23	4440J	Hinge
24	STD532505	* Bolt, Carriage 1/4-20 x 1/2 Gr. 5
25	6712J	Cap, Vinyl
26	109227X	Pad, Idler
27	102695X459	Shield, Leveling
28	120588X	Pin, Hinge
29	124309X459	Shield, Side
30	73970500	Locknut, Hex, Flange
--	132253	Decal, Tine Shield
--	120075X	Decal, Warning (Leveling Shield)

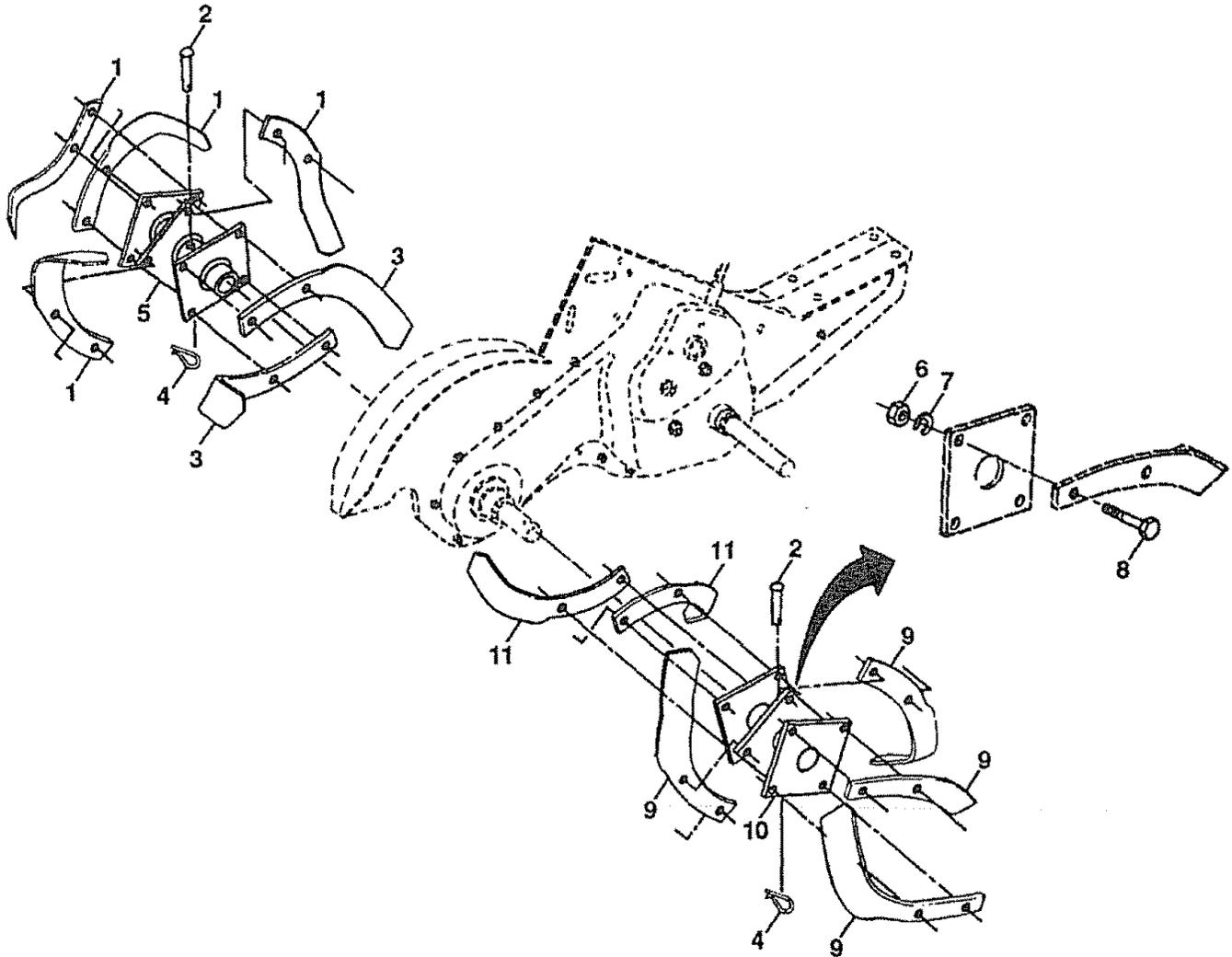
* STANDARD HARDWARE - - PURCHASE LOCALLY

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

REPAIR PARTS

5 HP 17" TILLER - - MODEL NUMBER 917.299850

TINE ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	4459J	Tine, Outer, L.H.
2	132673	Clevis Pin
3	6554J	Tine, Inner, L.H.
4	STD624008	* Clip, Hairpin
5	132727	Assembly, Hub and Plate, L.H.
6	73610600	Nut, Hex 3/8-24
7	STD551137	* Washer, Lock 3/8

KEY NO.	PART NO.	DESCRIPTION
8	74610616	Bolt, Hex 3/8-24 x 1
9	4460J	Tine, Outer, R.H.
10	132728	Assembly, Hub and Plate, R.H.
11	6555J	Tine, Inner, R.H.

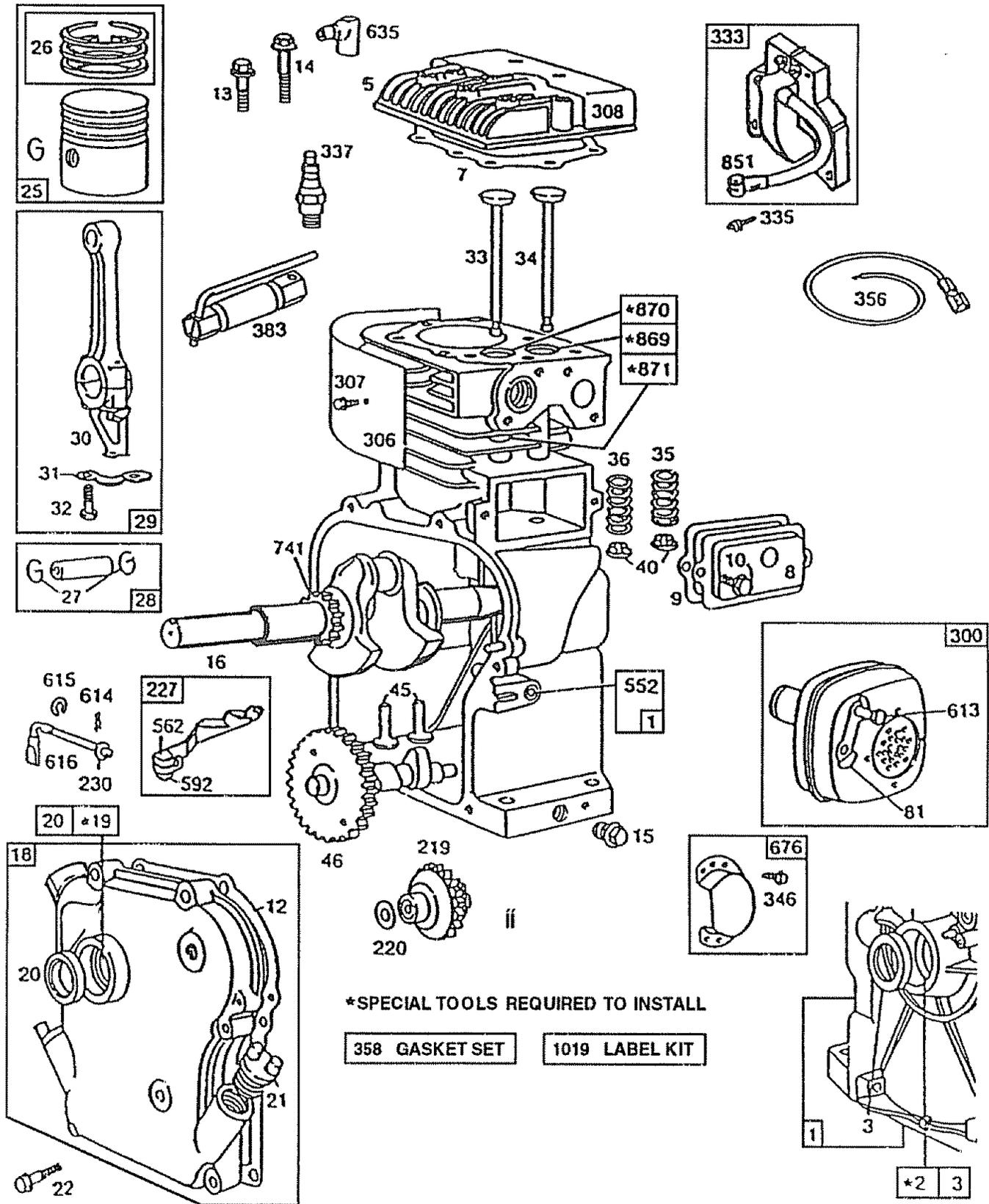
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REPAIR PARTS

5 HP 17" TILLER -- MODEL NUMBER 917.299850

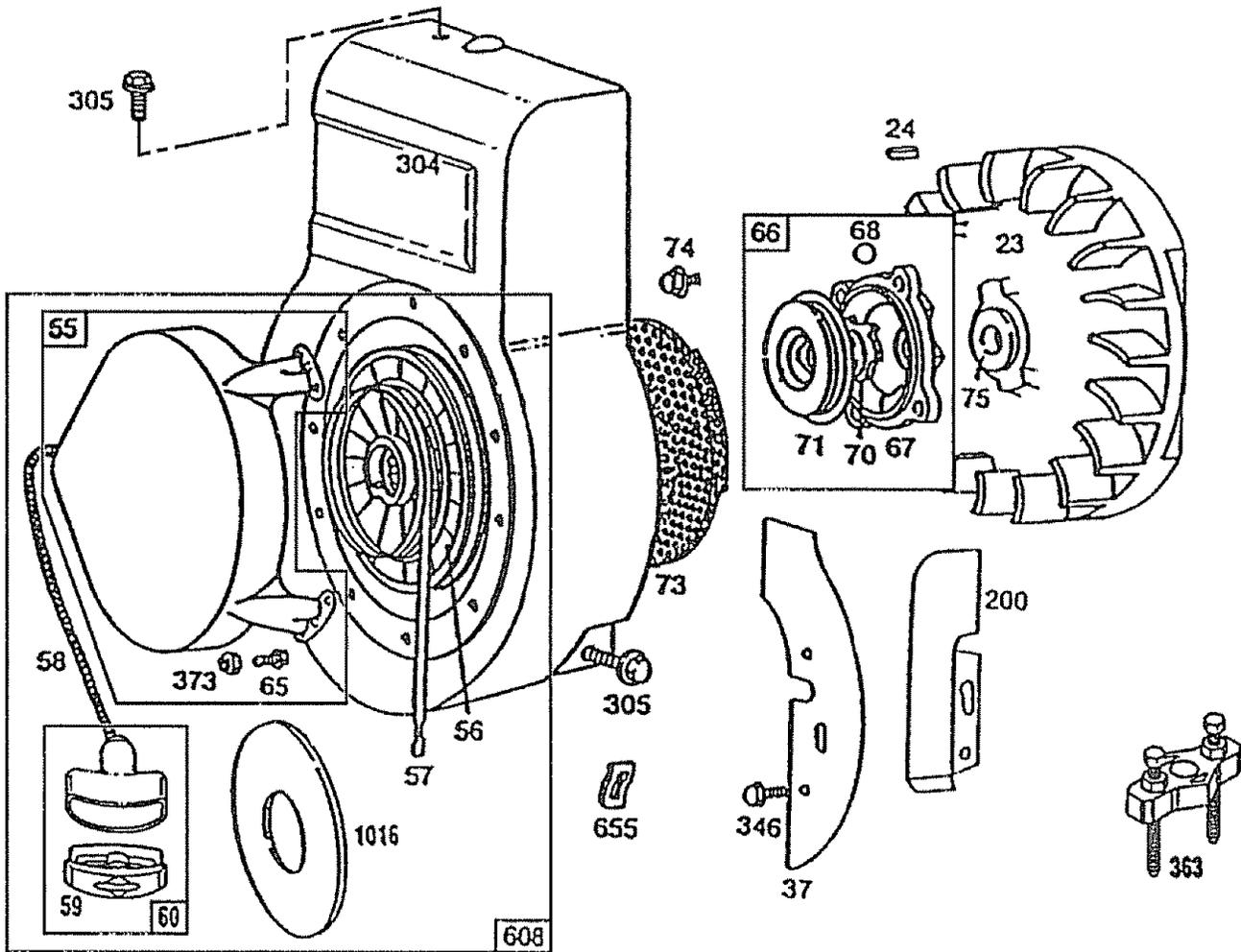
ENGINE, BRIGGS & STRATTON -- MODEL NUMBER 130202, TYPE NO. 3273-01



REPAIR PARTS

5 HP 17" TILLER - - MODEL NUMBER 917.299850

ENGINE, BRIGGS & STRATTON - - MODEL NUMBER 130202, TYPE NO. 3273-01



REPAIR PARTS

5 HP 17" TILLER - - MODEL NUMBER 917.299850

ENGINE, BRIGGS & STRATTON - - MODEL NUMBER 130202, TYPE NO. 3273-01

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 395990	Cylinder Assembly	31 221876	Lock, Connecting Rod Screw
2 297565	Bushing, Cylinder (Special Tools Required for Installation)	32 92296	Screw, Connecting Rod
3 299819	Seal, Oil	33 211119	Valve, Exhaust
5 211542	Head, Cylinder	34 261044	Valve, Intake
7 272157	* Gasket, Cylinder Head	35 260552	Spring, Intake Valve
8 294178	Breather, Valve Chamber	36 26478	Spring, Exhaust Valve
9 27549	* Gasket, Valve Cover	37 222443	Guard, Flywheel
10 94621	Screw, Sems, Breather Mounting	40 93312	Retainer, Valve Spring
11 66578	Grommet, Breather Tube	45 260642	Tappet, Valve
12 270080	* Gasket, Crankcase, Standard .015"	46 212733	Gear, Cam
270125	* Gasket, Crankcase .005"	52 271936	* Gasket, Carburetor Mounting (2)
270126	* Gasket, Crankcase .009"	55 299431	Housing, Rewind Starter
13 94221	Screw, Cylinder Head 2-3/32"	56 295871	Pulley, Rewind Starter (Includes 63" Long Rope)
14 93369	Screw, Cylinder Head 2-15/32"	57 490179	Spring, Rewind Starter
15 94387	Plug, Pipe	58 66884	Rope, Rewind Starter
93448	Plug, Pipe, Hex Socket Head	59 490653	Insert, Starter Handle
16 492088	Crankshaft	60 490652	Handle, Rewind Starter
230978	Crankshaft Gear Pin	65 94128	Screw, Sems, Stamped Steel
18 297602	Cover Assembly, Crankcase	66 399671	Housing Mounting
19 297603	Bushing, Crankcase Cover (Special Tools Required for Installation)	67 394897	Clutch Assembly, Rewind Starter
20 294606	Seal, Oil	68 63770	Housing, Starter Clutch
21 66768	Plug, Oil Filler	70 298799	Ball, Clutch
22 93032	Screw, Sems, Crankcase Cover Mounting (Uses: 93656 Stud, and 90832 Washer, Lock)	71 394506	Ratchet, Rewind Starter
23 297229	Flywheel, Magneto	73 221923	Washer, Clutch Retainer
24 222698	Key, Flywheel	74 93758	Screen, Starter Pulley
25 298904	Piston Assembly, Standard	75 224061	Screw, Hex Head
298905	Piston Assembly .010" Oversize	81 222263	Washer, Spring
298906	Piston Assembly .020" Oversize	90 492611	Lock, Screw
298907	Piston Assembly .030" Oversize	95 93499	Carburetor Assembly
26 298982	Ring Set, Piston, Standard	96 223793	Screw, Sems, Throttle Valve to Shaft
299742	Ring Set, Piston, Chrome, Standard	97 490048	Throttle, Carburetor
298983	Ring Set, Piston .010" Oversize	108 491177	Shaft and Lever, Throttle
298984	Ring Set, Piston .020" Oversize	118 231533	Valve Group, Choke
298985	Ring Set, Piston .030" Oversize	124 93357	Valve, Needle
27 26026	Lock, Piston Pin	127 220352	Screw, Hex Head
28 298909	Pin Assembly, Piston, Standard	127A 223789	Plug, Welch
298908	Pin Assembly, Piston .005" Over	149 26336	Plug, Welch, Mixing Chamber
29 299430	Rod Assembly, Connecting		Spring, Needle Valve
390459	Rod Assembly, Connecting, .020" Undersize Crankpin Bore		
30 221890	Dipper, Connecting Rod		

*Indicates Parts Included in Gasket Set (397145)

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

REPAIR PARTS

5 HP 17" TILLER - - MODEL NUMBER 917.299850

ENGINE, BRIGGS & STRATTON - - MODEL NUMBER 130202, TYPE NO. 3273-01

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
152 260575	Spring, Throttle Adjustment	434 210959	Cover, Diaphragm
153 490589	Screw Assembly	435 93141	Screw, Diaphragm Cover
154 93527	Screw, Machine, Round Head #5-40 x 5/8"	467 280715	Knob, Control
163 271935	Gasket, Air Cleaner Mounting	526 94409	Screw, Sems, Tank Bracket Mnt.
180 490554	Tank Assembly, Fuel	527 223786	Clamp, Breather Tube
181 494559	Cap, Fuel Tank	528 231550	Tube, Breather
190 94094	Screw, Sems, Fuel Tank Mounting	529 67838	Grommet, Breather Tube
191 272410	* Gasket, Fuel Tank Mounting	536 494279	Air Cleaner Kit
200 223886	Guide, Air	542 93572	Screw
201 262280	Link, Governor	552 231079	Bushing, Governor Crank, 1/4" I.D.
202 262270	Link, Throttle	562 92613	Bolt, Governor Lever
202A 262470	Link, Throttle	592 231082	Nut, Hex #10-24
203 280720	Crank, Bell	608 390463	Starter Assembly, Rewind
204 222962	Bushing, Governor Lever, Flat	611 391813	Fuel Pipe and Clip Assembly
205 231520	Screw, Shoulder	613 93935	Screw, Hex Head, Shoulder
209 262282	Spring, Governor	614 93306	Cotter, Hair Pin
216 262359	Link, Choke	615 93307	Retainer, E-Ring
219 391737	Gear, Governor	616 231077	Crank Governor, 1/4" Diameter
220 221551	Washer, Thrust	621 396847	Switch, Stop
222 490648	Bracket, Control	634 271853	Washer, Throttle Shaft, Foam
223 223455	Lever, Governor Control	635 66538	Elbow, Spark Plug
224 93491	Rivet, Governor Control Lever Mounting	655 222598	Anchor Spring
227 490374	Lever Assembly, Governor	676 393757	Deflector, Exhaust, Side Outlet
230 222450	Washer, Governor Lever	679 270382	Washer, Choke Shaft, Foam
256 223813	Crank, Bell	680 221839	Washer, Choke Shaft, Brass
257 93543	Screw, Sems, Fillister Head	741 261696	Gear, Timing
300 393615	Muffler, Exhaust	851 221798	Cable, Terminal, Ignition
304 490169	Housing, Blower	869 211787	Seat, Intake Valve, Standard
305 93158	Screw, Blower Housing Mounting	870 211172	Seat, Exhaust Valve, Standard (See Repair Manual For Options)
306 221511	Shield, Cylinder	871 262001	Guide, Exhaust Valve
307 93490	Screw, Sems, Cylinder Shield Mnt.	63709	Guide, Intake Valve (See Repair Instruction Manual)
308 221512	Cover, Cylinder Head	916 280321	Gear Rack, Governor
333 397358	Armature Assembly	966 490074	Base, Air Cleaner
335 93414	Screw, Sems, Armature Mounting	967 491588	Filter, Air
337 802592	Plug, Spark	968 223765	Cover, Air Cleaner
346 93705	Screw, Sems	969 490073	Screw, Cover Mnt. (Incl. Grommet)
356 398808	Wire, Ground	971 94018	Screw, Air Cleaner
358 397145	Gasket Set	987 398970	Seal, Throttle Shaft
363 19069	Flywheel Puller (Optional Accessory)	995 491577	Bracket, Link
373 92987	Nut, Hex	1012 490507	Link, Retainer
383 89838	Wrench, Spark Plug	1016 490817	Spacer
392 262328	Spring, Fuel Pump Diaphragm	1019 491100	Label Kit
394 270026	Diaphragm		
414 220982	Washer		
432 221377	Cap, Spring		
433 93265	Pin, Diaphragm Cover		

*Indicates Parts Included in Gasket Set (397145)

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

SEARS
OWNER'S
MANUAL

MODEL NO.
917.299850

**HOW TO ORDER
REPAIR PARTS**

CRAFTSMAN®
5.0 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 adjacent to the spark plug.

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

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- **PRODUCT - REAR TINE TILLER**
- **MODEL NUMBER - 917.299850**
- **ENGINE MODEL NUMBER - 130202, TYPE NUMBER 3273-01**
- **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.