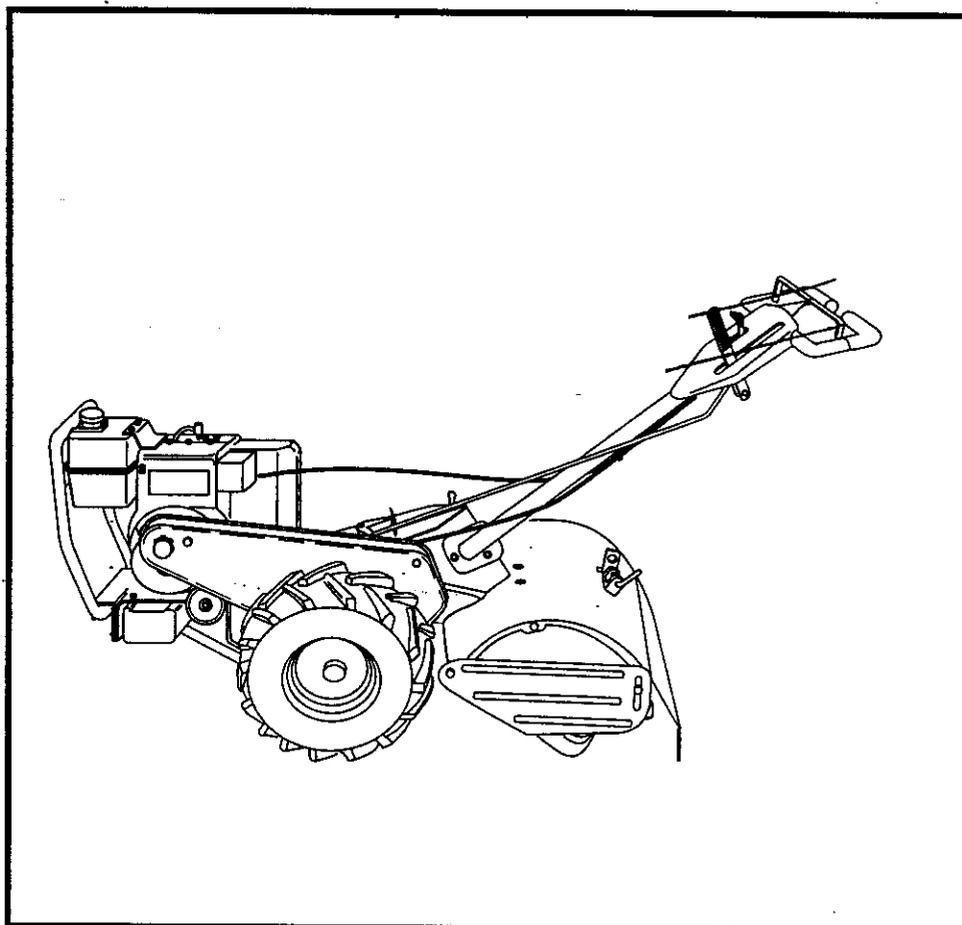


SEARS

OWNER'S MANUAL

**MODEL NO.
944.627592**

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



CRAFTSMAN[®]

9.0 HP

21 INCH TINE WIDTH

REAR TINE TILLER WITH

COUNTER ROTATING TINES

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

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.



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.
- 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.

NOTE: 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.

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 **944.627592**

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:	9.0 HP
DISPLACEMENT:	19 cu. in. (311cc)
GASOLINE CAPACITY:	4 Quarts (3.8L) Unleaded Regular
OIL (API-SF/SG/SH) : (CAPACITY: 44 oz.)	SAE 30 (Above 32°F) SAE 3W-30 (Below 32°F)
SPARK PLUG : (GAP: .030")	Champion RJ19LM

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 (2) YEAR WARRANTY ON CRAFTSMAN TILLER

For Two (2) years from date of purchase Sears Canada, Inc. will repair or replace at Sears option free of charge parts which are defective as a result of material or workmanship.

COMMERCIAL OR RENTAL USE:

Warranty on Tiller will be thirty (30) days from date of purchase if used for commercial or rental purposes.

This Warranty does **NOT** cover:

1. Pre-delivery set-up.
2. Expendable items which become worn during normal use, such as tines, spark plugs, air cleaners, shear pins, and belts.
3. Repairs necessary because of operator abuse or negligence, including the failure to operate and maintain the equipment according to the instructions contained in the Owner's Manual.

Warranty service is available by returning the Craftsman Tiller to the nearest Sears Service Centre/Department in Canada. This warranty applies only while this product is in use in Canada.

This warranty is in addition to any statutory warranty and does not exclude or limit legal rights you may have but shall run concurrently with applicable provincial legislation. Furthermore, some provinces do NOT allow limitation on how long an implied warranty will last so the above limitations may not apply to you.

SEARS CANADA, INC., TORONTO, ONTARIO M5B 2B8

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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).

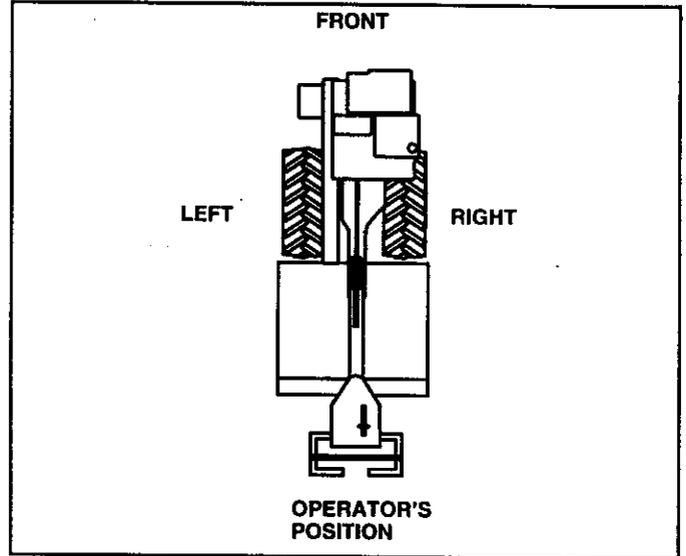
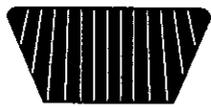


FIG. 1

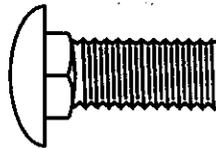
CONTENTS OF HARDWARE PACK



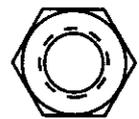
(1) Handle Lock
(Black)



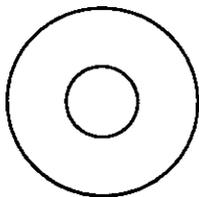
(1) Handle Lock
(Silver)



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



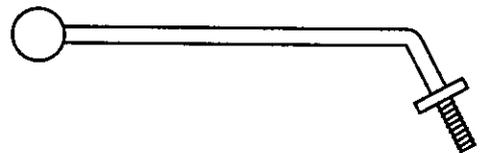
(1) Center Locknut
3/8-16 UNC



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



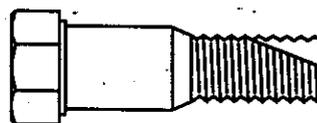
(1) Cable Clip



(1) Handle Lock Lever



(2) Hairpin Clips



(1) Pivot Bolt
3/8-16 UNC Grade 5

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. 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.

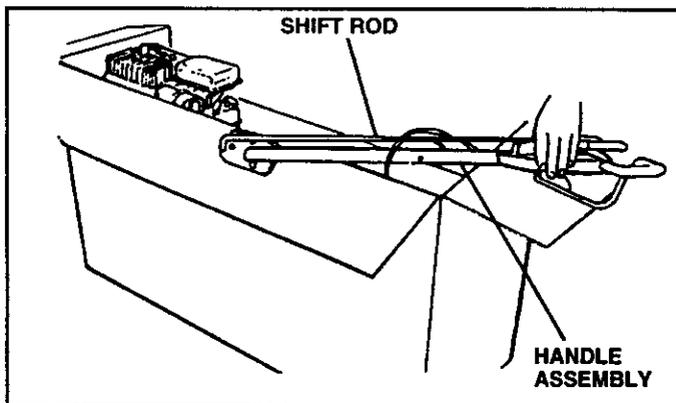


FIG. 2

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

- Insert the thicker black handle lock (with teeth facing to the right) in gearcase notch.
- Grasp handle assembly. Hold in "up" position. Be sure handle lock remains in gearcase notch. Slide handle assembly into position.

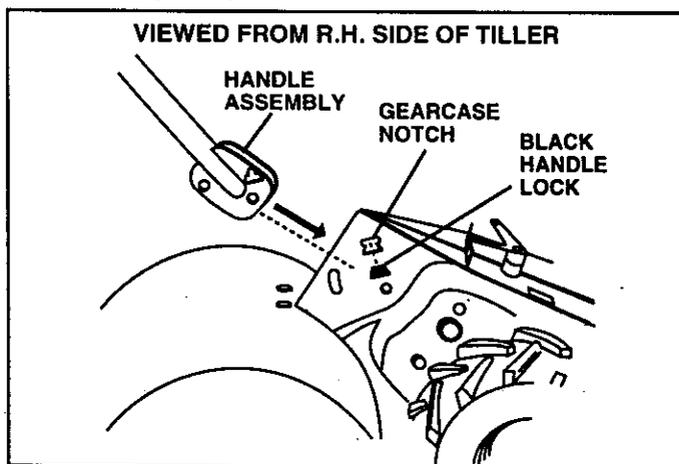


FIG. 3

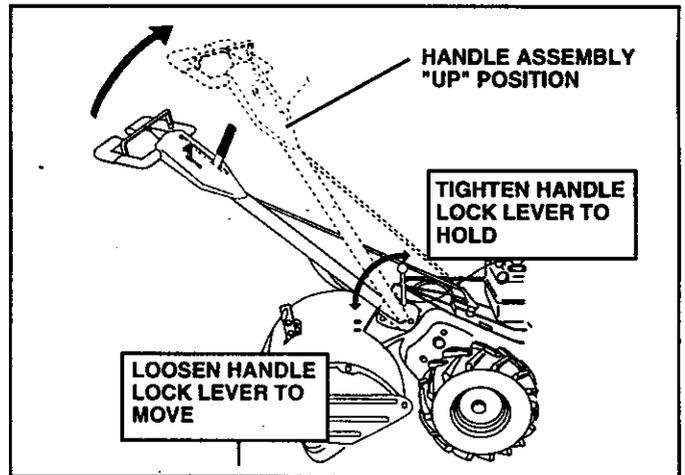


FIG. 4

- 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 left hand rear corner of carton. Lay rear carton wall down, which will remove the protective cardboard flap from leveling shield.
- 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 the smaller silver handle lock (with teeth inward) in the slot of the handle base (just inside of washer).
- 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.

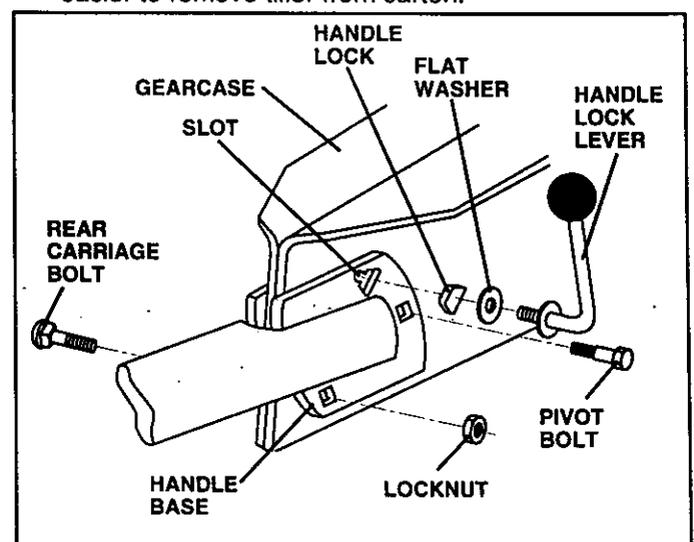


FIG. 5

ASSEMBLY

INSERT CABLE CLIP (See Fig. 6)

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

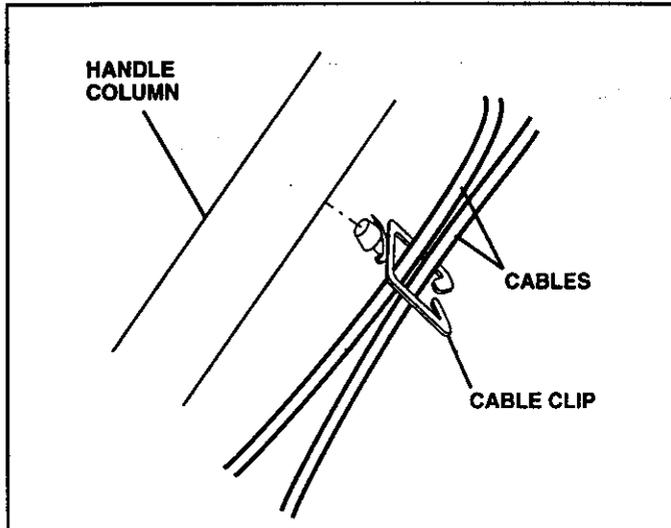


FIG. 6

CONNECT SHIFT ROD (See Fig. 7)

- Insert end of shift into hole of shift lever indicator.
- Insert hairpin clip through hole of shift rod to secure.

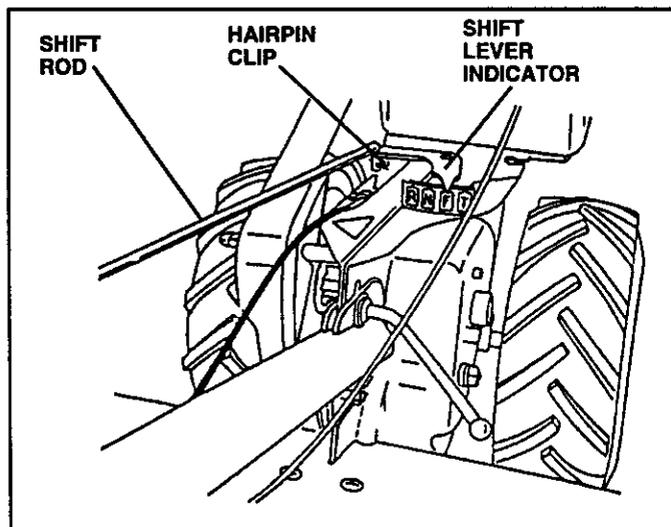


FIG. 7

REMOVE TILLER FROM CRATE

- Make sure shift lever indicator is in "N" (neutral) position (See Fig. 7)
- Tilt tiller forward by lifting handle
- Rotate tiller handle to the right and pull tiller out of carton.

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.

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

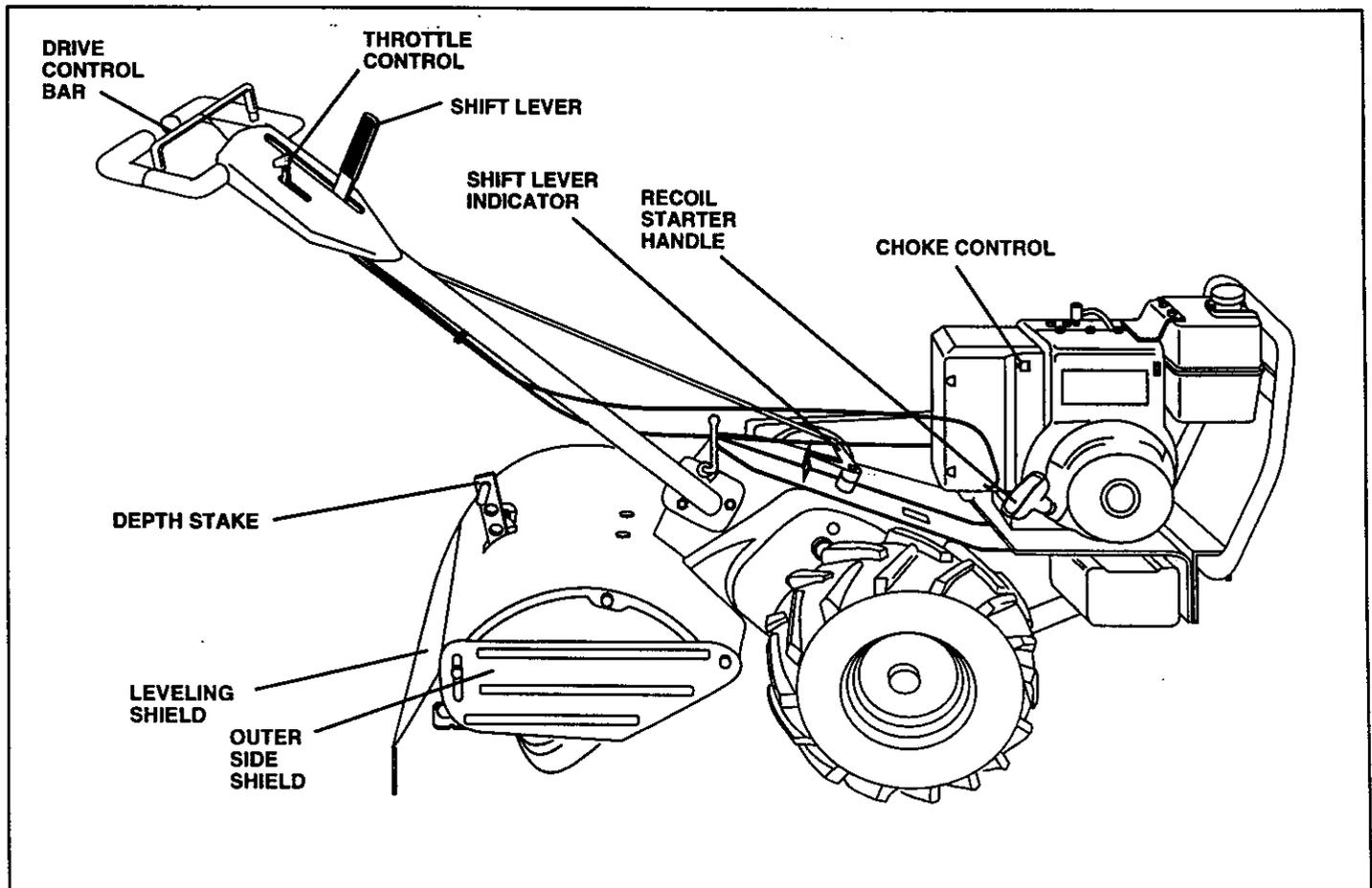
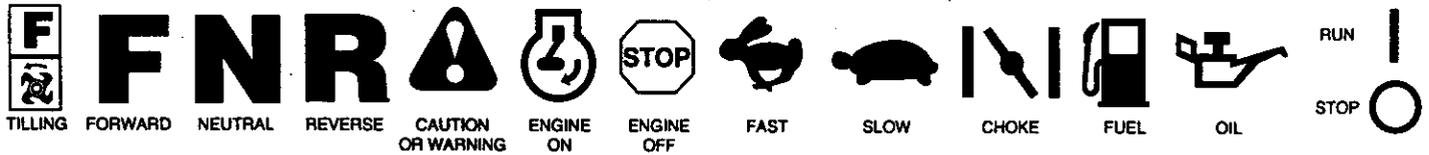


FIG. 8

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.

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 a wide vision safety mask over 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. If equipped with stop switch, move switch to "STOP" position.
- Never use choke to stop engine.

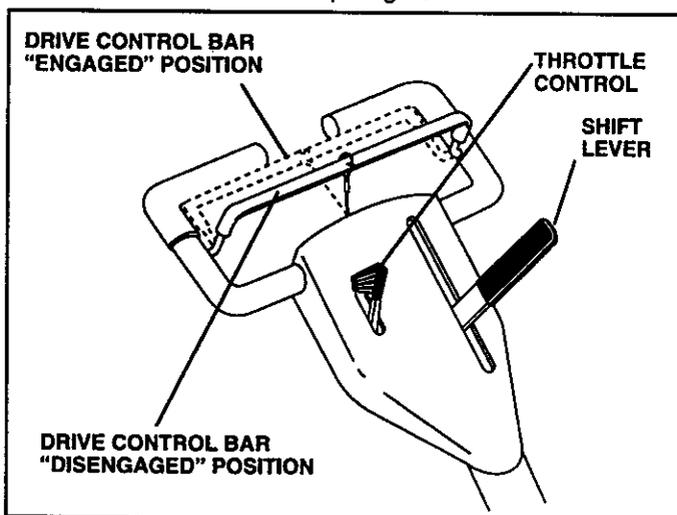


FIG. 9

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 (R) 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.

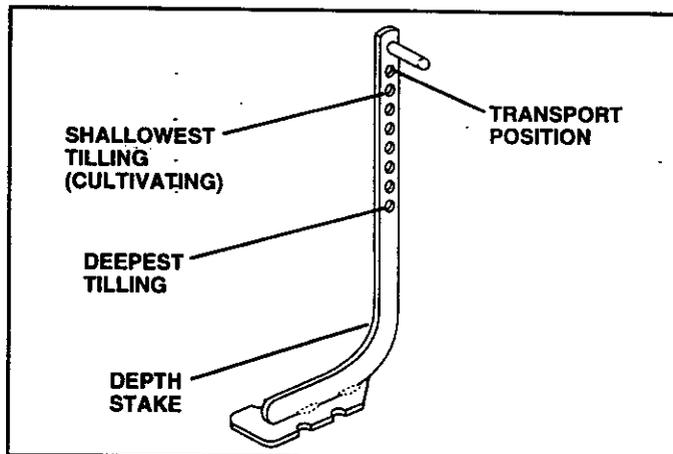


FIG. 10

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 till 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.

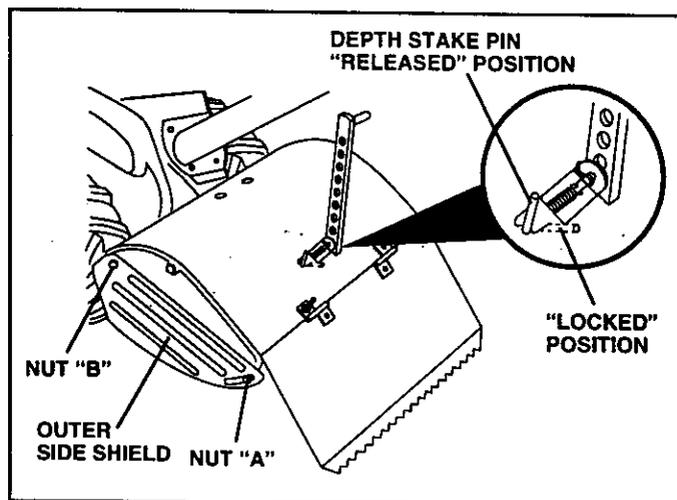


FIG. 11

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 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 back 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.
- With engine level, clean area around oil filler plug and remove plug.

- Engine oil should be to point of overflowing when engine is level. For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual. All oil must meet A.P.I. Service Classification SF, SG or SH.
- 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.

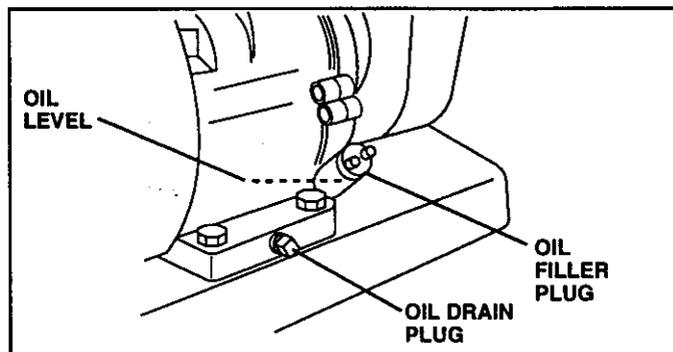


FIG. 12

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.

OPERATION

TO START ENGINE (See Fig. 13)



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

- Make sure spark plug wire is properly connected, and fuel shut-off valve is open.
- Move shift lever indicator to "N" (neutral) position.
- Place throttle control in "FAST" position.
- Move choke control to full "CHOKE" position. 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. Repeat if necessary.
- If engine fires but does not start, move choke control to half choke position. Pull recoil starter handle until engine starts.
- When engine starts, slowly move choke control to "RUN" position as engine warms up.

NOTE: A warm engine requires less choking to start.

- 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.

NOTE: If engine does not start, see troubleshooting points.

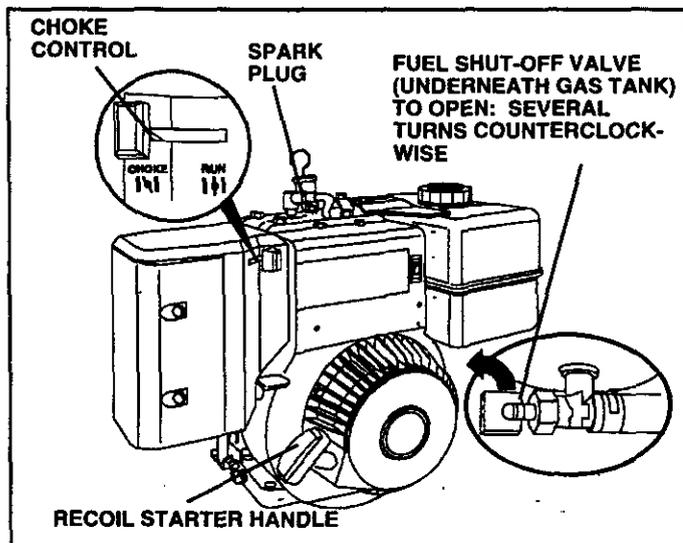


FIG. 13

TILLING HINTS



CAUTION: Until you are accustomed to handling your tiller, start actual field use with throttle in slow position (mid-way 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.
- You will find tilling much easier if you leave a row untilled between passes. Then go back between tilled rows. (See Fig. 14) There are two reasons for doing this. First, wide turns are much easier to negotiate than about-faces. Second, the tiller won't be pulling itself, and you, toward the row next to it.
- 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.

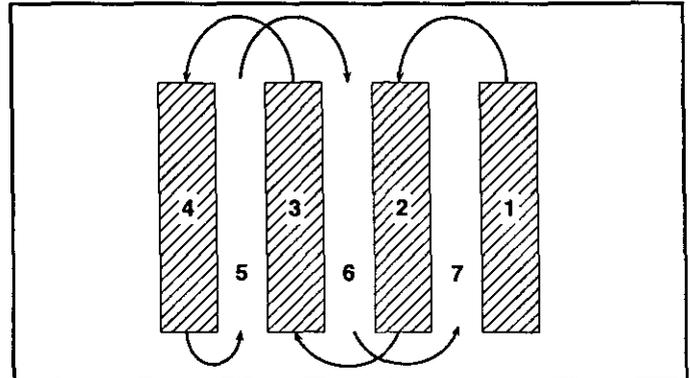


FIG. 14

OPERATION

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).

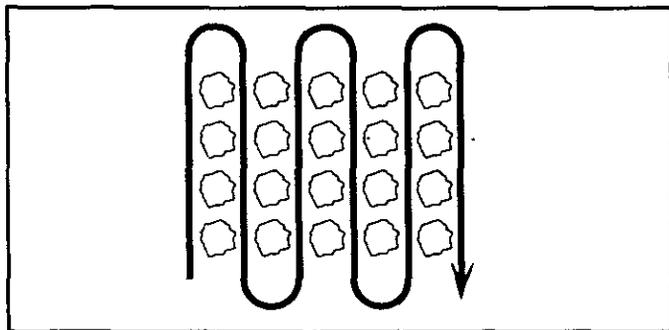


FIG. 15

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.

ADJUST WHEELS FOR CULTIVATING (See Figs. 16 and 17)

- Place blocks under right hand side of tiller and remove hairpin clip and clevis pin from right hand wheel.
- Move wheel outward approximately 1 inch until hole in inner wheel hub lines up with inner hole in axle.
- Replace clevis pin and hairpin clip on inside of wheel and remove blocks.
- Repeat preceding steps on left hand side.

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

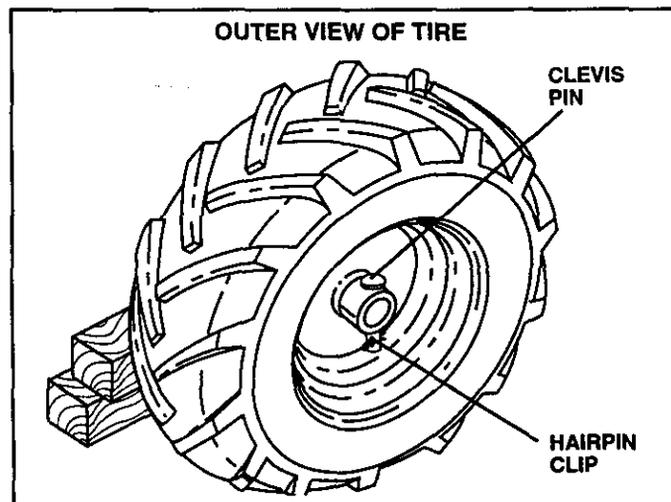


FIG. 16

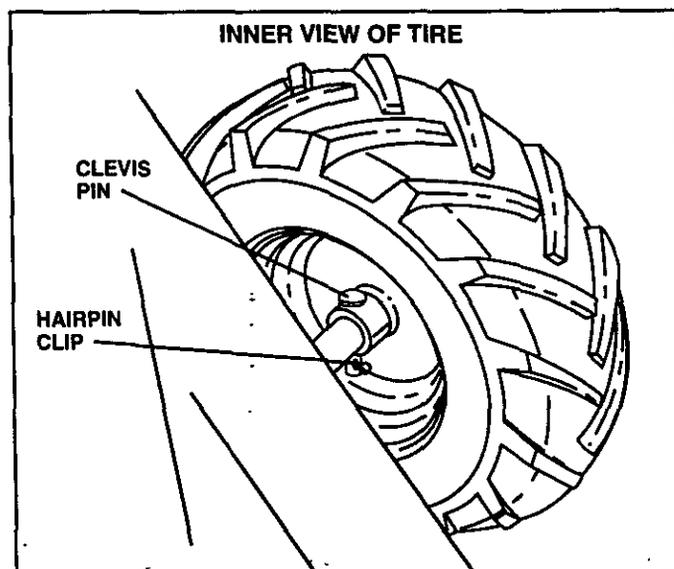


FIG. 17

CUSTOMER RESPONSIBILITIES

MAINTENANCE SCHEDULE					SERVICE DATES																		
	FILL IN DATES AS YOU COMPLETE REGULAR SERVICE				BEFORE EACH USE	EVERY 5 HOURS	EVERY 25 HOURS	EVERY 50 HOURS															
Check Engine Oil Level	✓	✓																					
Change Engine Oil							✓ _{1,2}																
Oil Pivot Points		✓																					
Inspect Spark Arrester / Muffler							✓																
Inspect Air Screen	✓																						
Clean or 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 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 air-fuel mixture and help your engine run better and last longer.

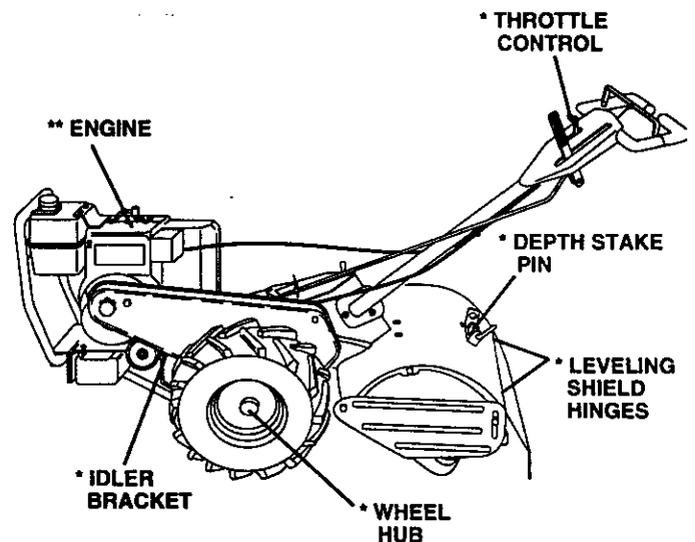
BEFORE EACH USE

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

LUBRICATION

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

LUBRICATION CHART



* SAE 30 OR 5W-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.

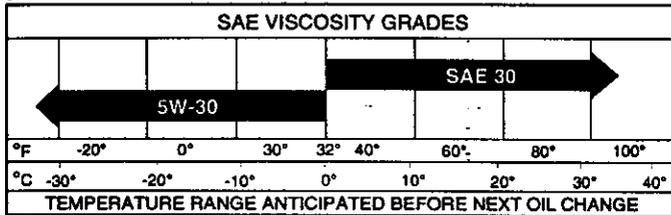


FIG. 18

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 50 hours of operation or at least once a year if the tiller is not used for 50 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. 18 and 19)

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 drain plug. For easier removal of plug use 7/16 12 pt socket with extension.
- 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.

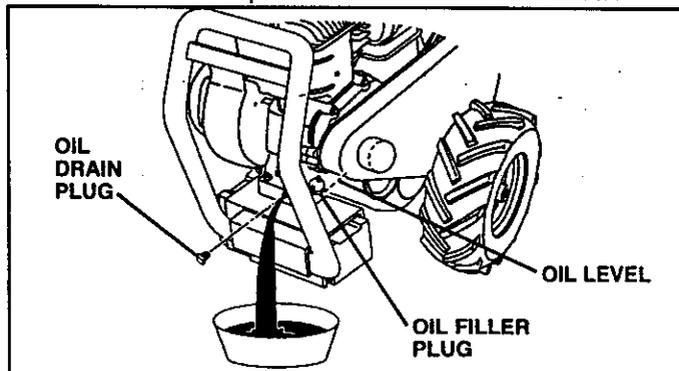


FIG. 19

AIR FILTER (See Fig. 20)

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.

- Loosen air cleaner cover screws. Remove cover and air cleaner assembly from base.
- Remove air cleaner assembly from inside cover and disassemble.

TO SERVICE PRE-CLEANER

- 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.

TO SERVICE CARTRIDGE

- Gently tap the flat side of the paper cartridge to dislodge dirt. Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge. Replace a dirty, bent, or damaged cartridge.
- Reassemble retainer on pre-cleaner and cartridge (screen side of pre-cleaner toward cartridge pleats). Place assembly into cover.
- Insert tabs on cover into slots in base and tighten cover screws.

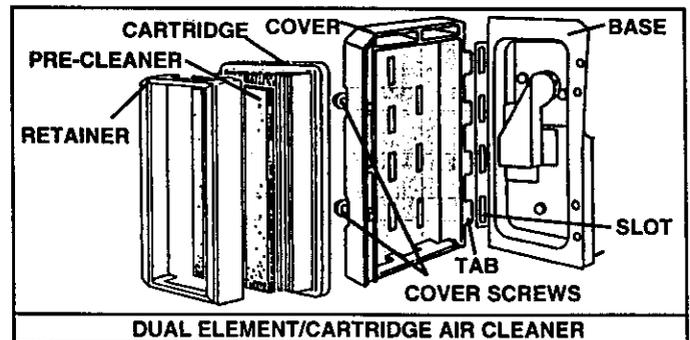


FIG. 20

COOLING SYSTEM (See Fig. 21)

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.

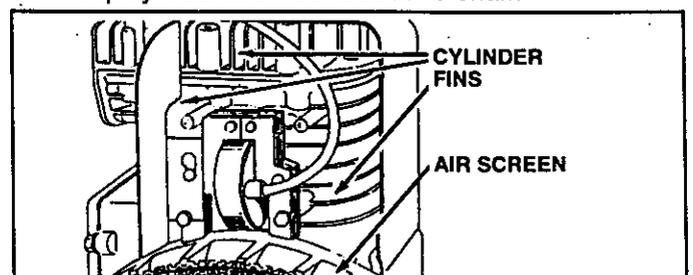


FIG. 21

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. 22)

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.

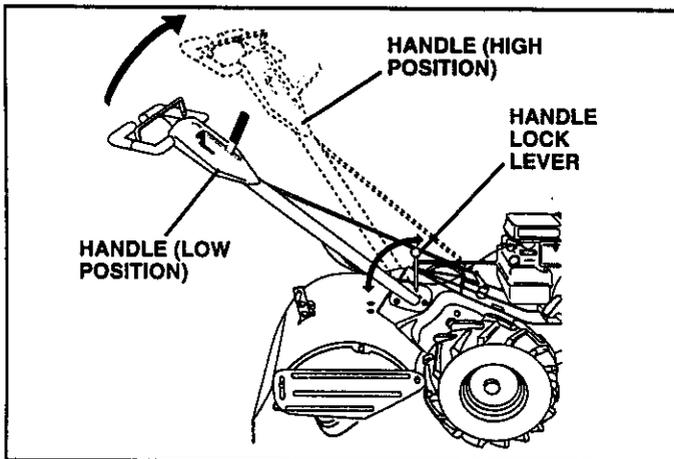


FIG. 22

TO REMOVE WHEEL (See Fig. 23)

- 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.

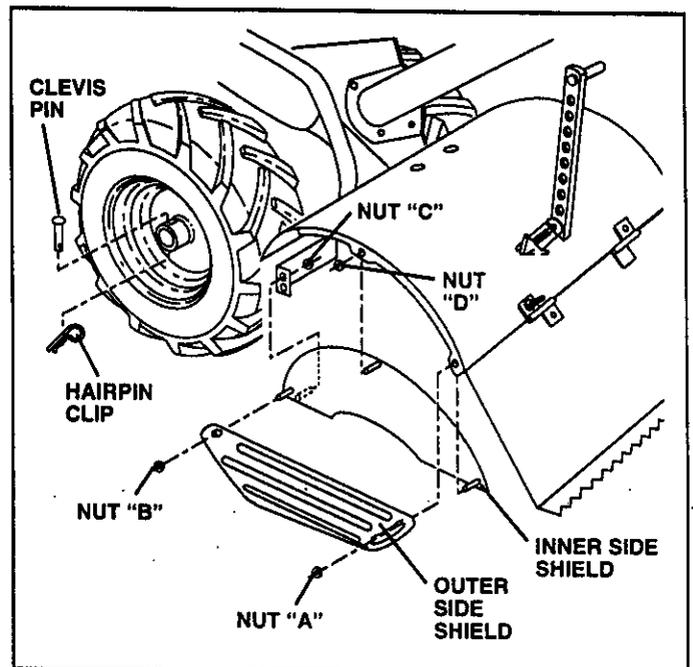


FIG. 23

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.

SERVICE AND ADJUSTMENTS

TO REMOVE BELT GUARD (See Fig. 24)

- Remove hairpin clip and clevis pin from left wheel. Pull wheel out from tiller about 1 inch.
- Remove cap nut and washer, and hex bolt and washer 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 tiller.
- Replace belt guard by reversing above procedure.

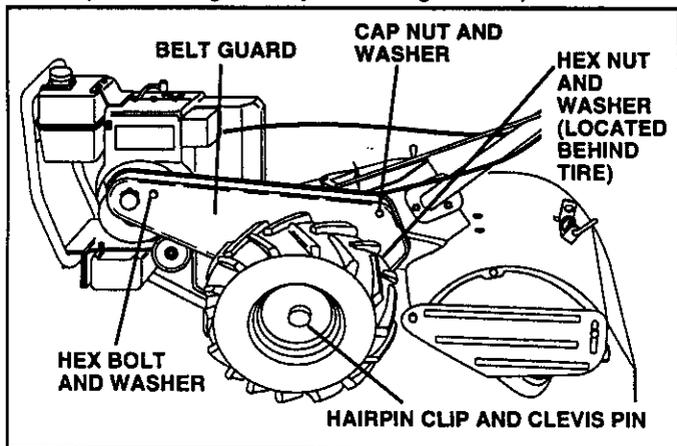


FIG. 24

TO REPLACE GROUND DRIVE BELT (See Figs. 24 and 25)

- Remove belt guard. (See "TO REMOVE BELT GUARD" in this section of this manual).
- Loosen belt guides "A" and "B".
- 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".
- Check belt adjustment as described below.
- Replace belt guard.
- Reposition wheel and replace clevis pin and hairpin clip.

GROUND DRIVE BELT ADJUSTMENT (See Fig. 25)

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.

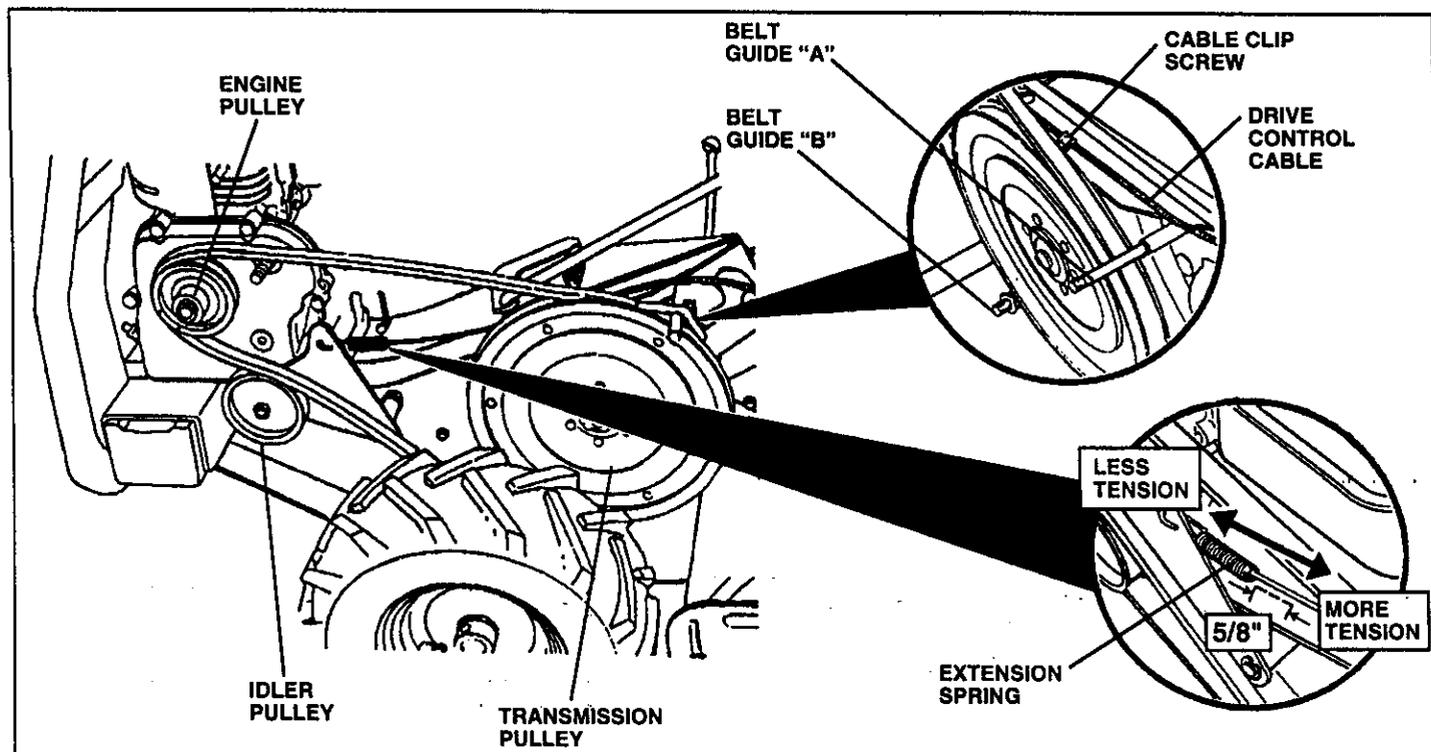


FIG. 25

SERVICE AND ADJUSTMENTS

TINE REPLACEMENT (See Figs. 26, 27 and 28)



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.

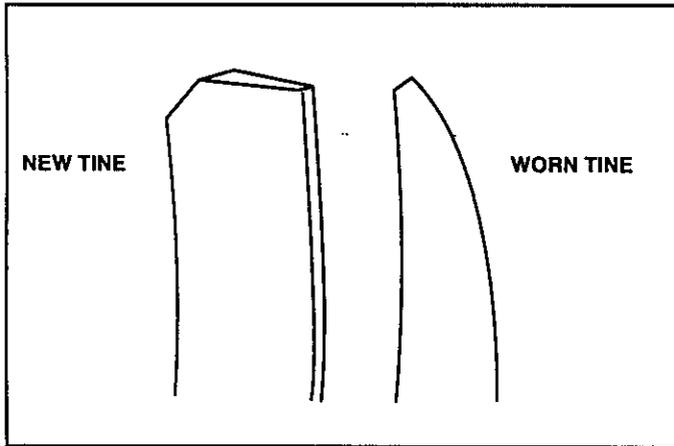


FIG. 26

- 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. 28. Sharpened tine edges will rotate rearward from above.

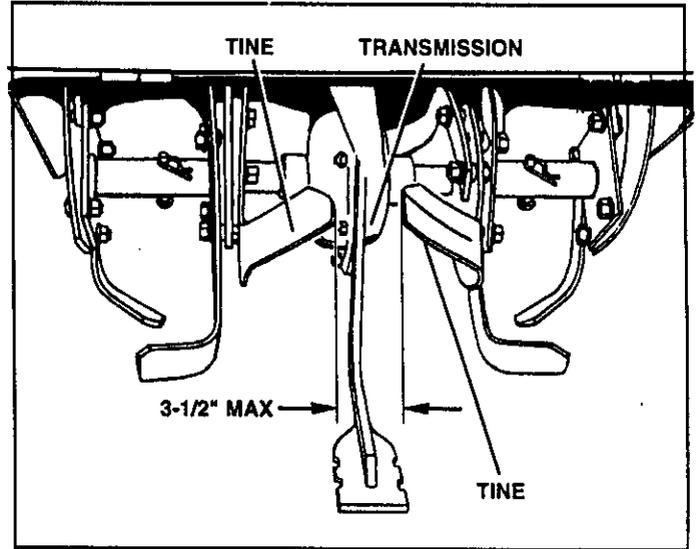


FIG. 27

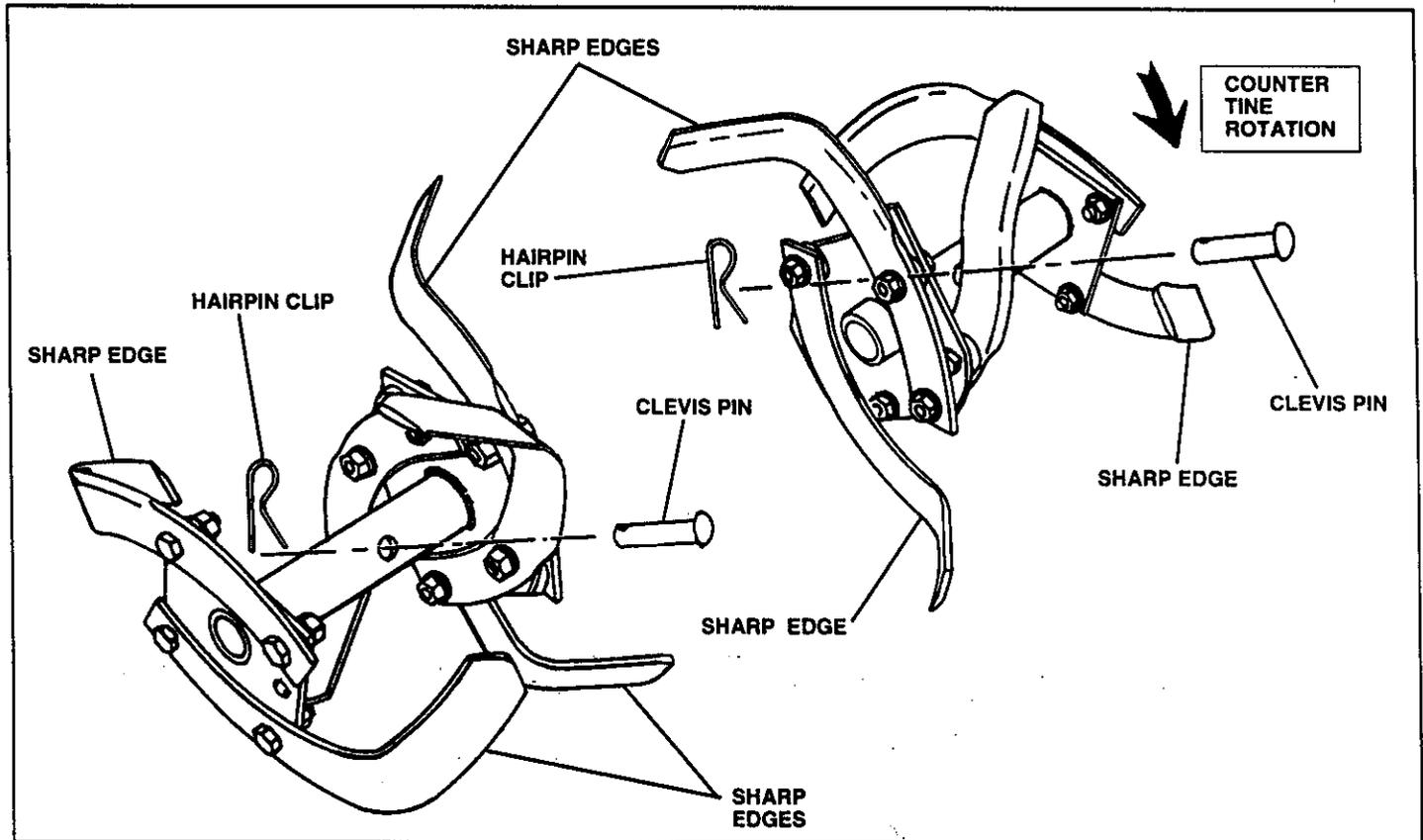


FIG. 28

SERVICE AND ADJUSTMENTS

ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customer's expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 29)

- Loosen cable clamp screw to allow cable to move.
- Move throttle control lever on upper handle to "FAST" position.
- Pull throttle cable out to end of travel
- Hold cable in this position and tighten clamp screw securely.

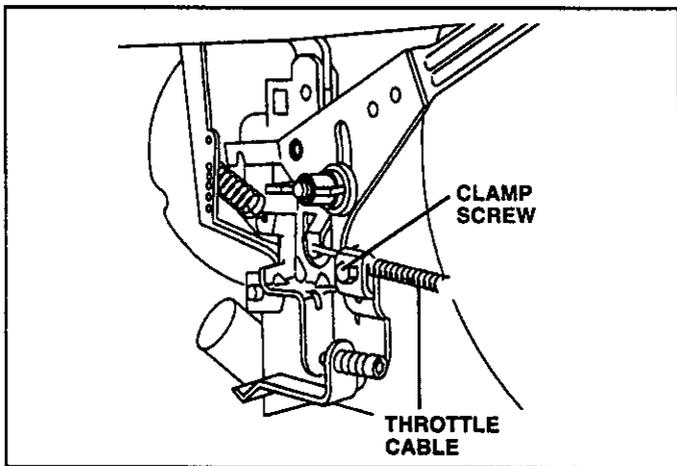


FIG. 29

TO ADJUST CARBURETOR (See Fig. 30)

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.

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 AUTHORIZED SERVICE CENTER/DEPARTMENT, WHICH HAS THE PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

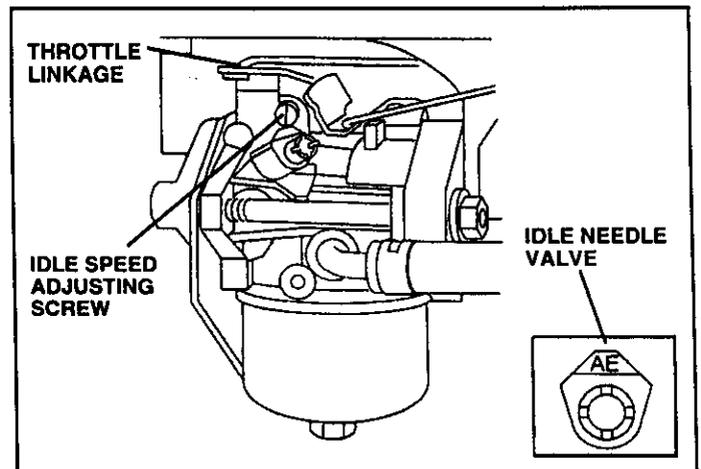


FIG. 30

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).

CYLINDER(S)

- 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.

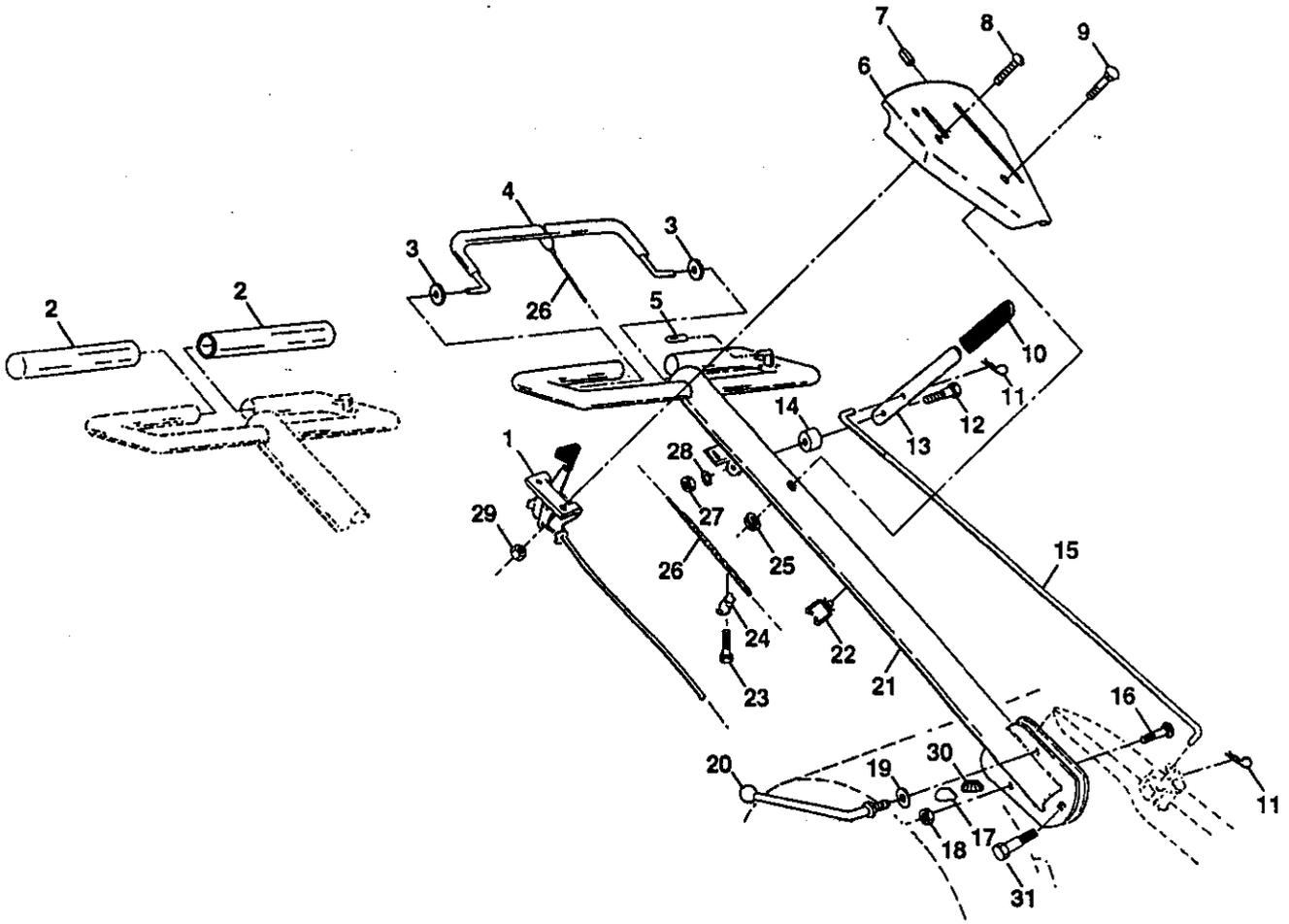
TROUBLESHOOTING POINTS

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. 10. Oil soaked air filter. 	<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. Clean or 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. 10. Replace air filter.
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. Clean or 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. Clean or 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 service center/department.
Engine overheats	<ol style="list-style-type: none"> 1. Low oil level/dirty oil. 2. Dirty engine air screen. 3. Dirty engine. 4. Partially plugged muffler. 5. Improper carburetor adjustment. 	<ol style="list-style-type: none"> 1. Check oil level/change oil. 2. Clean engine air screen. 3. Clean cylinder fins, air screen, and muffler area. 4. Remove and clean muffler. 5. Adjust carburetor to richer position.
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

TILLER -- MODEL NUMBER 944.627592

HANDLES



KEY NO.	PART NO.	DESCRIPTION
1	138305	Throttle, Control
2	141406	Grip, Handle
3	110673X	Grommet, Handle
4	127254X	Bar, Assembly Control
5	6712J	Cap, Vinyl
6	137119	Panel, Control
7	110641X	Bushing, Split
8	71191008	* Screw 10-24
9	72010520	* Bolt, 5/16-18 x 2.50
10	110646X	Handle, Grip
11	4497H	Retainer, Spring
12	81328	Bolt, Shoulder
13	138295	Handle, Shift
14	109313X	Grommet, Rubber
15	110702	Rod, Shift
16	72140608	* Bolt, Carriage 3/8-16 x 1
17	109229X	Lock, Handle
18	73930600	* Nut, Centerlock 3/8-16

KEY NO.	PART NO.	DESCRIPTION
19	19131611	Washer 13/32 x 1 x 11 Ga.
20	109228X	Lever, Lock, Handle
21	150628	Column, Handle, Asm.
22	165197	Clip, Plastic, Cable
23	86777	Screw, Hex, Washer #10-24 x 1/2
24	9484R	Clip
25	73970500	Locknut, Hex, Flange
26	138306	Clutch, Cable
27	73220400	* Nut, Fin, Hex 1/4-20
28	10040400	* Washer, Lock Hvy Helical 1/4
29	73731000	Nut, Keps #10-24
30	138283	Lock, Handle
31	150696	Bolt, Pivot

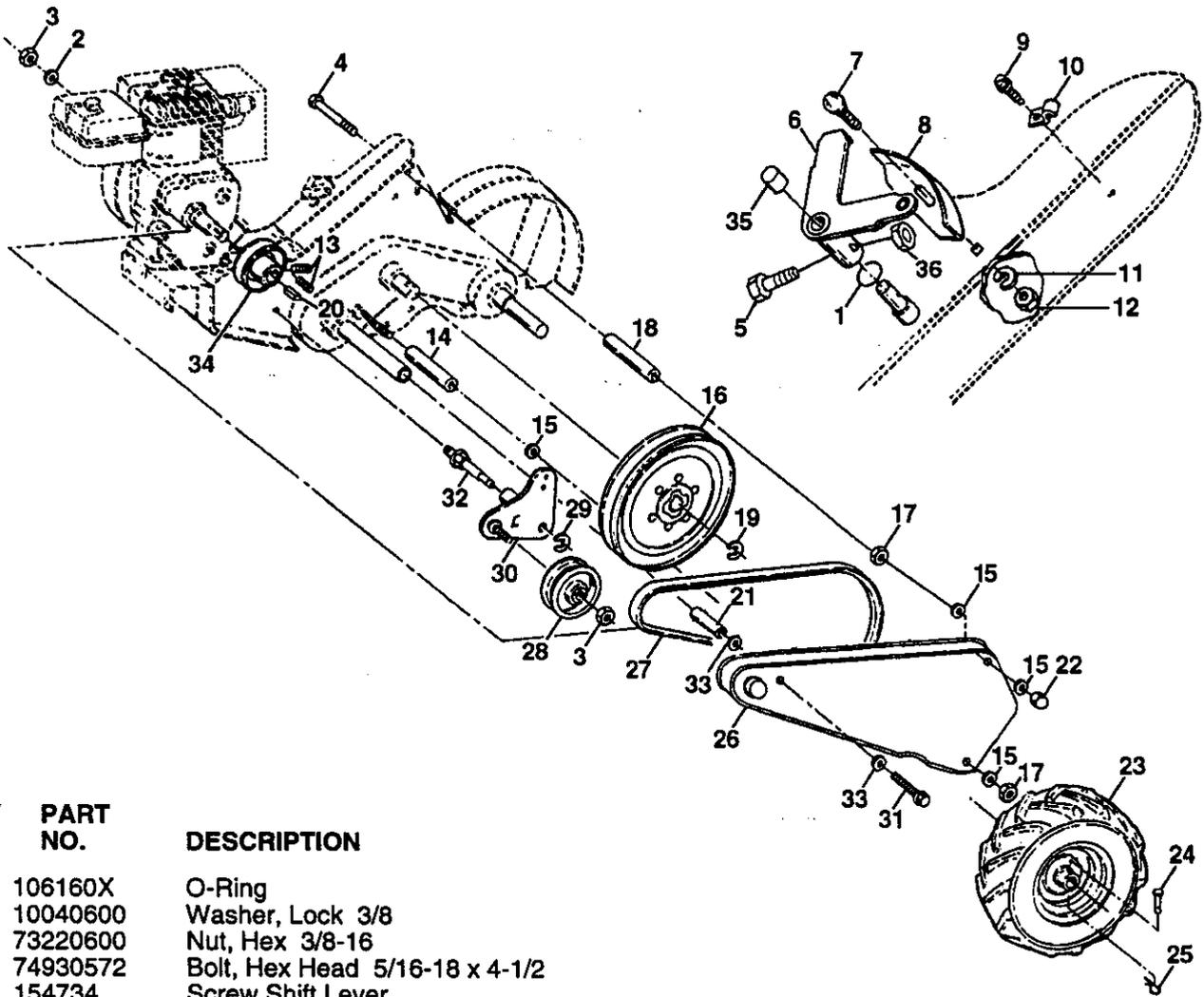
* STANDARD HARDWARE -- PURCHASE
LOCALLY Assembly

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

REPAIR PARTS

TILLER - - MODEL NUMBER 944.627592

MAINFRAME, LEFT SIDE



KEY NO.	PART NO.	DESCRIPTION
1	106160X	O-Ring
2	10040600	Washer, Lock 3/8
3	73220600	Nut, Hex 3/8-16
4	74930572	Bolt, Hex Head 5/16-18 x 4-1/2
5	154734	Screw Shift Lever
6	110111X	Lever, Shift
7	72110404	Bolt, Carriage 1/4-20 x 1/2 Grade 5
8	8700J	Plate, Shift Indicator
9	86777	Screw, Hex Washer Head, Slotted #10-24 x 1/2
10	9484R	Clip
11	10040400	Washer, Lock 1/4
12	73220400	Nut, Hex 1/4-20
13	23230506	Screw, Set, Hex 5/16-18 x 3/8
14	8382J	Spacer, Split 0.327 x 0.42 x 2.68
15	19111116	Washer 11/32 x 11/16 x 16 Gauge
16	145102	Sheave, Transmission
17	73220500	Nut, Hex 5/16-18
18	8381J	Spacer
19	12000028	Ring, Retainer
20	4914H	Key, Square
21	139155	Spacer, Split .523 x .718 x 2
22	104214X	Nut, Cap 5/16-18
23	5015J	Tire
	138417	Rim
	795R	Tire Valve
24	4929H	Rivet, Drilled

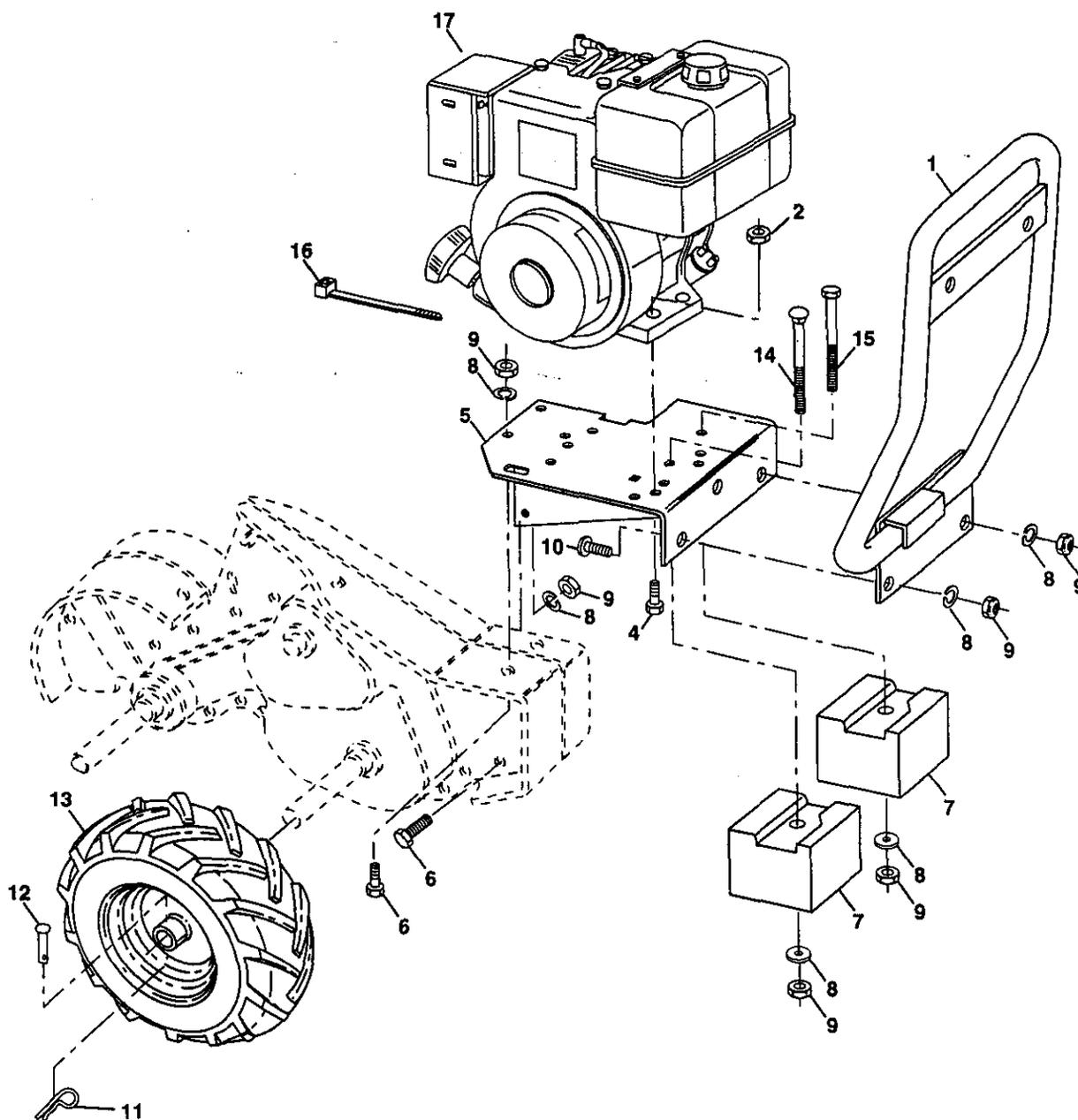
KEY NO.	PART NO.	DESCRIPTION
25	4921H	Clip, Hairpin
26	102818X558	Guard, Belt
27	138399	V-Belt
28	104679X	Pulley, Idler
29	12000032	Ring, Klip
30	159229	Bracket, Idler
31	74770844	Bolt, Hex Head 1/2-20 x 2-3/4
32	139401	Shaft, Idler Arm
33	19171616	Washer
34	4368J	Sheave, Engine
35	140062	Cap, Plunger
36	69180	Nut Lock #10-24

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

REPAIR PARTS

TILLER - - MODEL NUMBER 944.627592

MAINFRAME, RIGHT SIDE



KEY NO.	PART NO.	DESCRIPTION
1	138402	Bumper
2	73510500	Nut 5/16-18
4	74760528	Bolt, Hex 5/16-18 x 1-3/4
5	138669	Bracket, Engine
6	74760616	Bolt, Hex Head 3/8-16 x 1
7	8450J	Counter Weight, R.H.
8	10040600	Washer, Lock 3/8
9	73220600	Nut, Hex 3/8-16
10	72140608	Bolt, Carriage 3/8-16 x 1
11	4921H	Clip, Hairpin
12	4929H	Rivet, Drilled

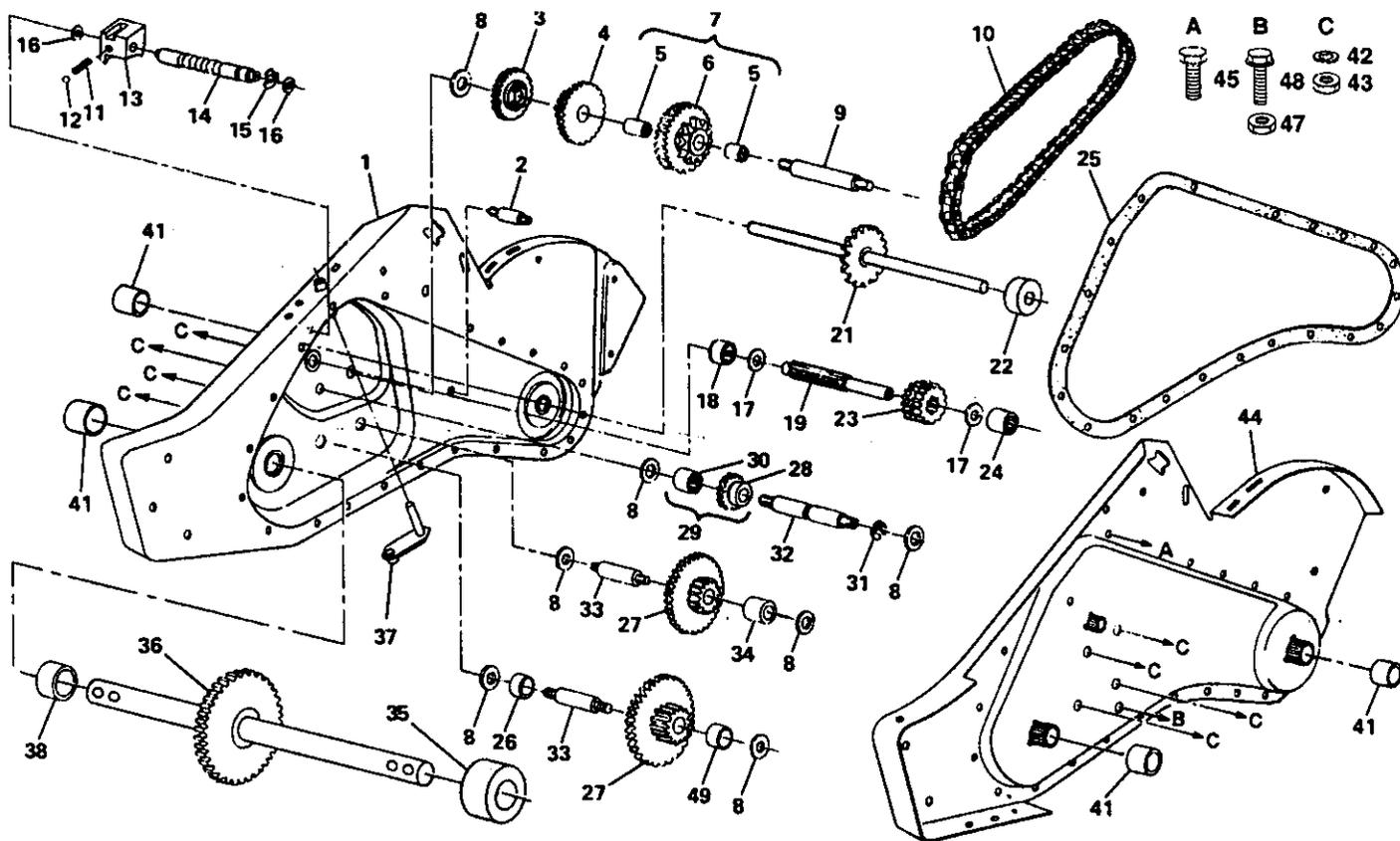
KEY NO.	PART NO.	DESCRIPTION
13	5015J	Tire
	138417	Rim
	795R	Tire Valve
14	72470636	Bolt, Carriage 3/8-16 x 4-1/2
15	74760672	Bolt, Hex Head 3/8-16 x 4-1/2
16	7192J	Tie, Cable
17	-----	Engine (See Breakdown) Briggs Model 19G402-1170-E1

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

REPAIR PARTS

TILLER -- MODEL NUMBER 944.627592

TRANSMISSION



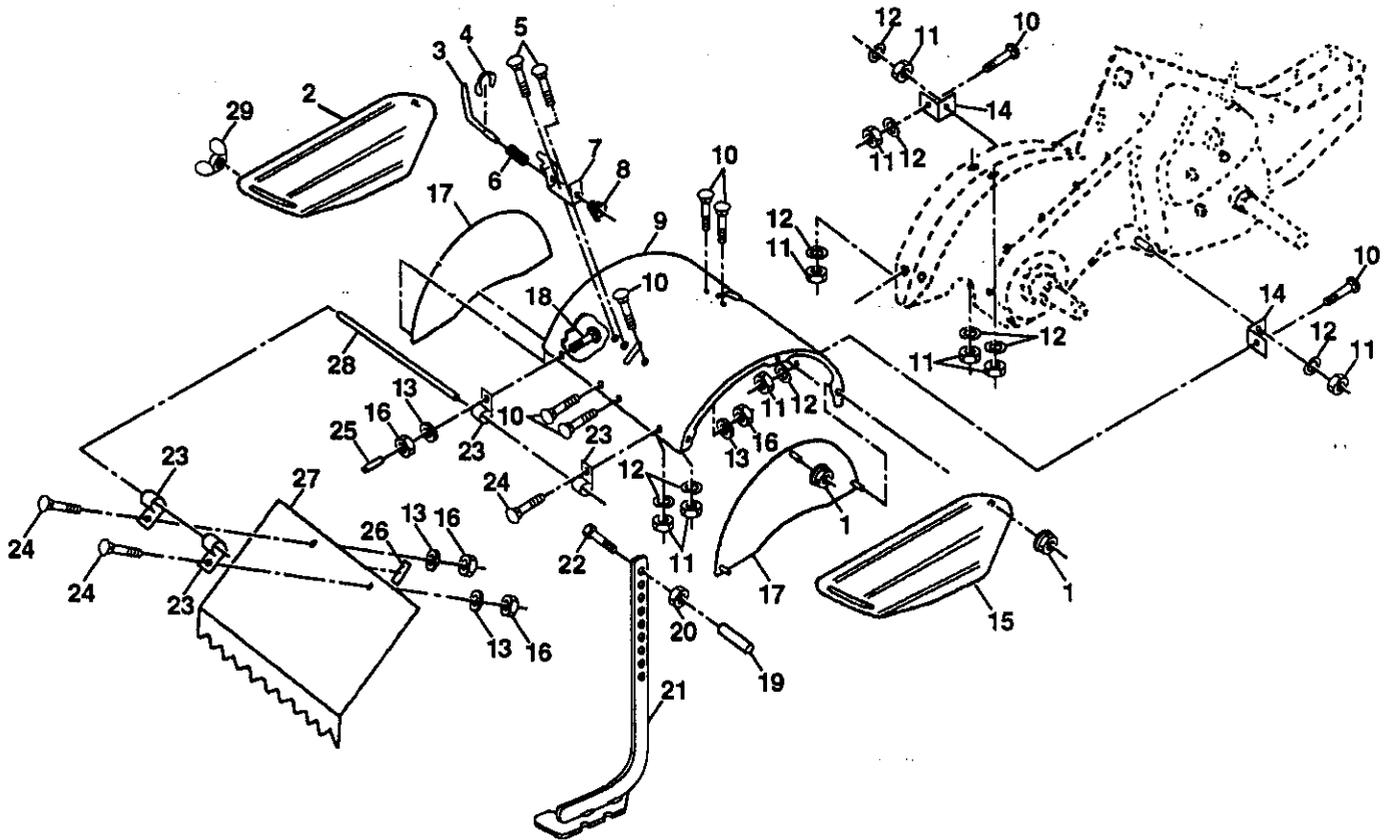
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
--	162169	Transmission Assembly	26	106389X	Spacer .765 I.D. x 1.12 x 5/8
1	162163	Gearcase Assembly, R.H., with Bearing (Includes Key No. 18)	27	100433M	Gear, Cluster, Red., 2nd and 3rd
2	8370J	Bolt, Upset	28	8357J	Gear, Reverse Idler
3	8547J	Gear, Reverse	29	674A289	Gear Assembly, Reverse Idler (Includes Key Numbers 28 and 30)
4	8546J	Gear, Cluster, Red., 1st and 2nd	30	6803J	Bearing, Needle
5	100413K	Bearing, Needle	31	12000040	Klip Ring
6	674A291	Sprocket Assembly, Tine	32	8356J	Shaft, Reverse Idler
7	674A290	Sprocket Assembly with Bearings (Includes Key #6 & two of Key #5)	33	100016K	Shaft, Reduction, 2nd
8	4358J	Washer	34	106392X	Spacer .765 I.D. x 1-1/8 x 1-3/8
9	8358J	Shaft, Reduction, 1st	35	106394X	Spacer, Ground Drive, L.H.
10	8371J	Chain, Roller, 60P	36	100436L	Shaft Assembly, Ground
11	100371K	Spring, Shift, Fork	37	142145	Arm Assembly, Shift
12	7392M	Ball, Steel	38	106393X	Spacer, Ground Drive, R.H.
13	8353J	Fork, Shift	41	155236	Seal, Oil
14	8354J	Shaft, Shift	42	10040700	Washer, Lock 7/16
15	12000039	Klip Ring	43	73610700	Nut, Hex 7/16-20
16	154467	Washer, Seal	44	162165	Gearcase Assembly, L.H., with Bearing (Includes Key Number 24)
17	1370H	Race, Bearing, Thrust, 5/8 I.D.	45	17720510	Screw 5/16-18 x 5/8
18	4895H	Bearing, Needle	47	73220500	Nut, Hex Head 5/16-18
19	150695	Shaft, Input	48	100107K	Screw, Whiz-Lock 5/16-18 x 4
21	105378X	Shaft Assembly, Tine	49	106391X	Spacer .765 I.D. x 1.12 x 3/4
22	106181X	Spacer 1.008 x 1-3/4 x .645	--	6066J	Grease, Plastilub Number 1
23	8359J	Pinion, Input			
24	5020J	Bearing, Needle			
25	164396	Gasket, Gearcase			

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

REPAIR PARTS

TILLER - - MODEL NUMBER 944.627592

TINE SHIELD



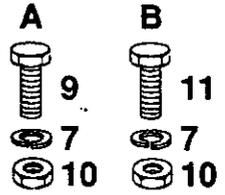
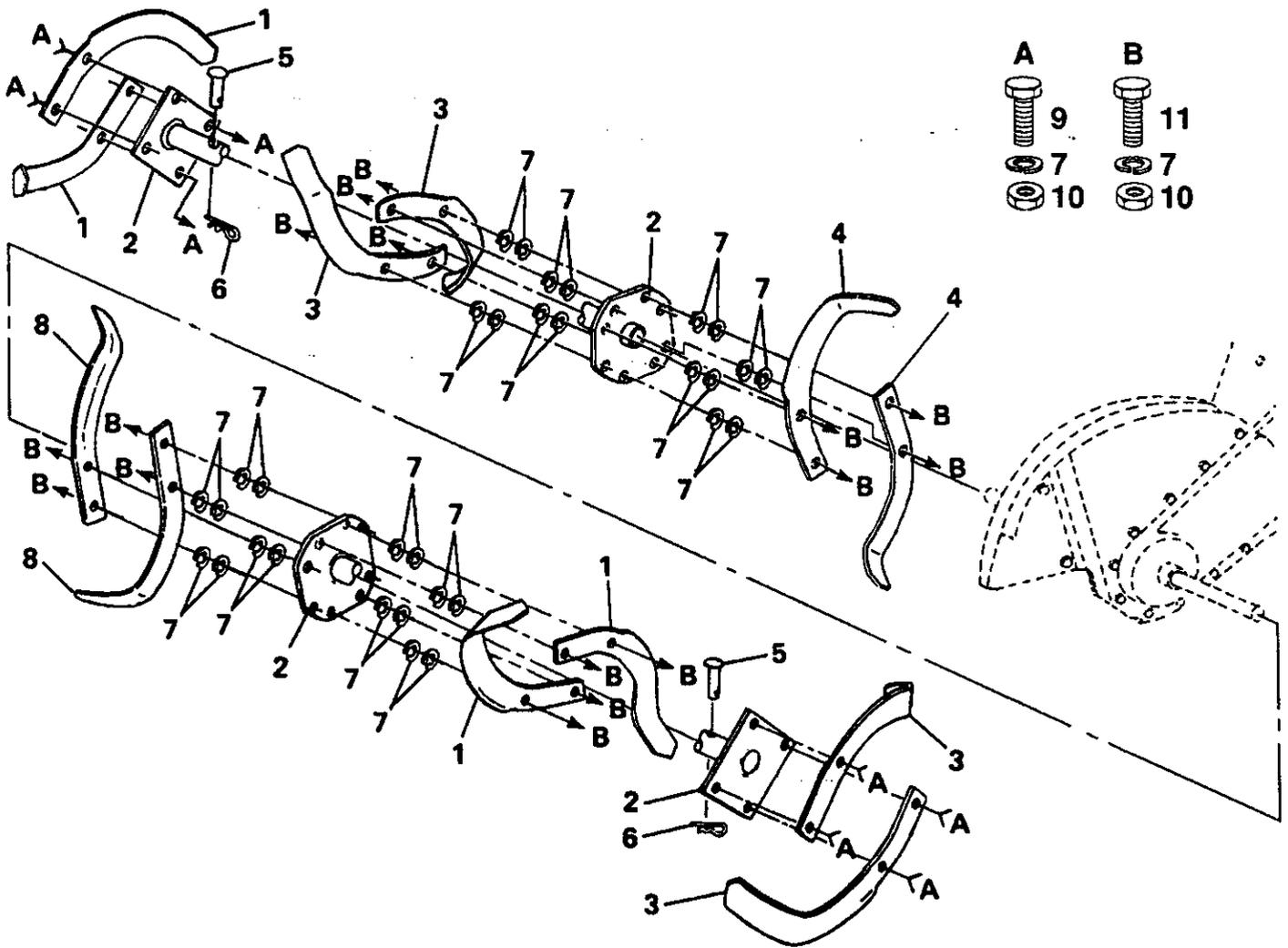
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	98000129	Nut, Flange 5/16-18	16	73220400	Nut, Fin, Hex 1/4-20
2	161416X558	Shield, Side, Outer, L.H.	17	104084X558	Shield, Side
3	8393J	Pin, Depth Stake	18	72040410	Bolt, Carriage 1/4-20 x 1-1/4 Gr. 5
4	12000036	Ring, Klip	19	102701X	Grip
5	72140508	Bolt, Carriage 5/16-18 x 1	20	73220600	Nut, Hex 3/8-16
6	8394J	Spring	21	138420	Stake, Depth
7	8392J	Bracket, Latch	22	74930632	Bolt, Hex 3/8-16 x 2
8	109230X	Spring, Depth Stake	23	4440J	Hinge
9	104178X558	Shield, Tine	24	72140408	Bolt, Carriage 1/4-20 x 1/2 Gr. 5
10	72140506	Bolt, Carriage 5/16-18 x 3/4 Gr. 5	25	6712J	Cap, Vinyl
11	73220500	Nut, Hex 5/16-18	26	109227X	Pad, Idler
12	10040500	Washer, Lock 5/16	27	102713X558	Shield, Leveling
13	10040400	Washer, Lock 1/4	28	138609	Pin, Hinge
14	8386J	Bracket, Shield Tine	29	162175	Nut, Wing 5/16-18
15	161417X558	Shield, Side, Outer R.H.			

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

REPAIR PARTS

TILLER -- MODEL NUMBER 944.627592

TINE ASSEMBLY



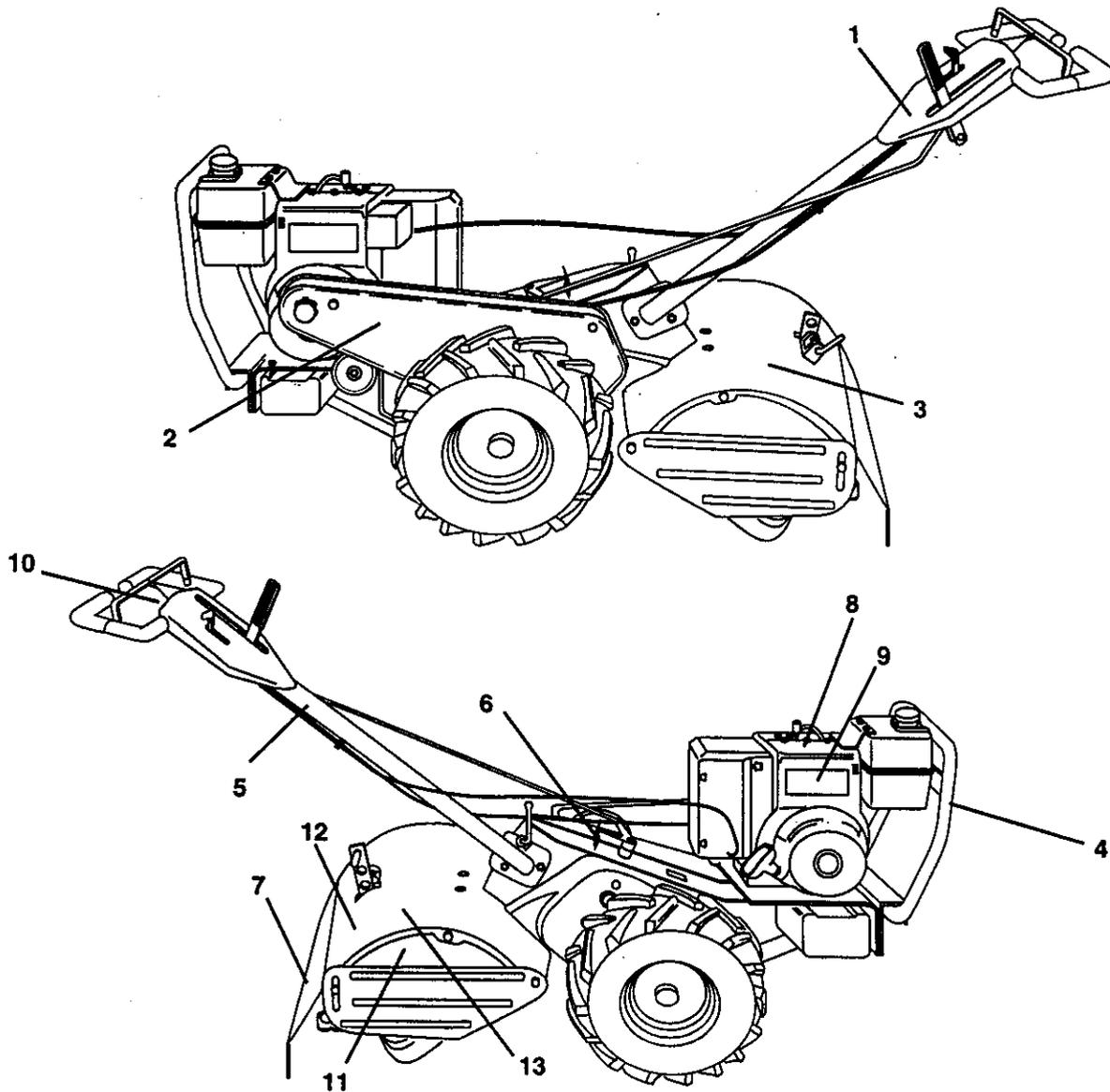
KEY NO.	PART NO.	DESCRIPTION
1	6556J	Tine, L.H., 14"
2	100445L	Hub Assembly
3	6557J	Tine, R.H., 14"
4	101194M	Tine, L.H., 14"
5	4929H	Rivet, Panhead
6	163552	Retainer Spring
7	10040600	Washer, Lock 3/8
8	101193M	Tine, R.H., 14"
9	74610616	Bolt, Hex Head 3/8-24 x 1
10	73610600	Nut, Hex 3/8-24
11	74610624	Bolt, Hex Head 3/8-24 x 1-1/2

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REPAIR PARTS

TILLER -- MODEL NUMBER 944.627592

DECALS

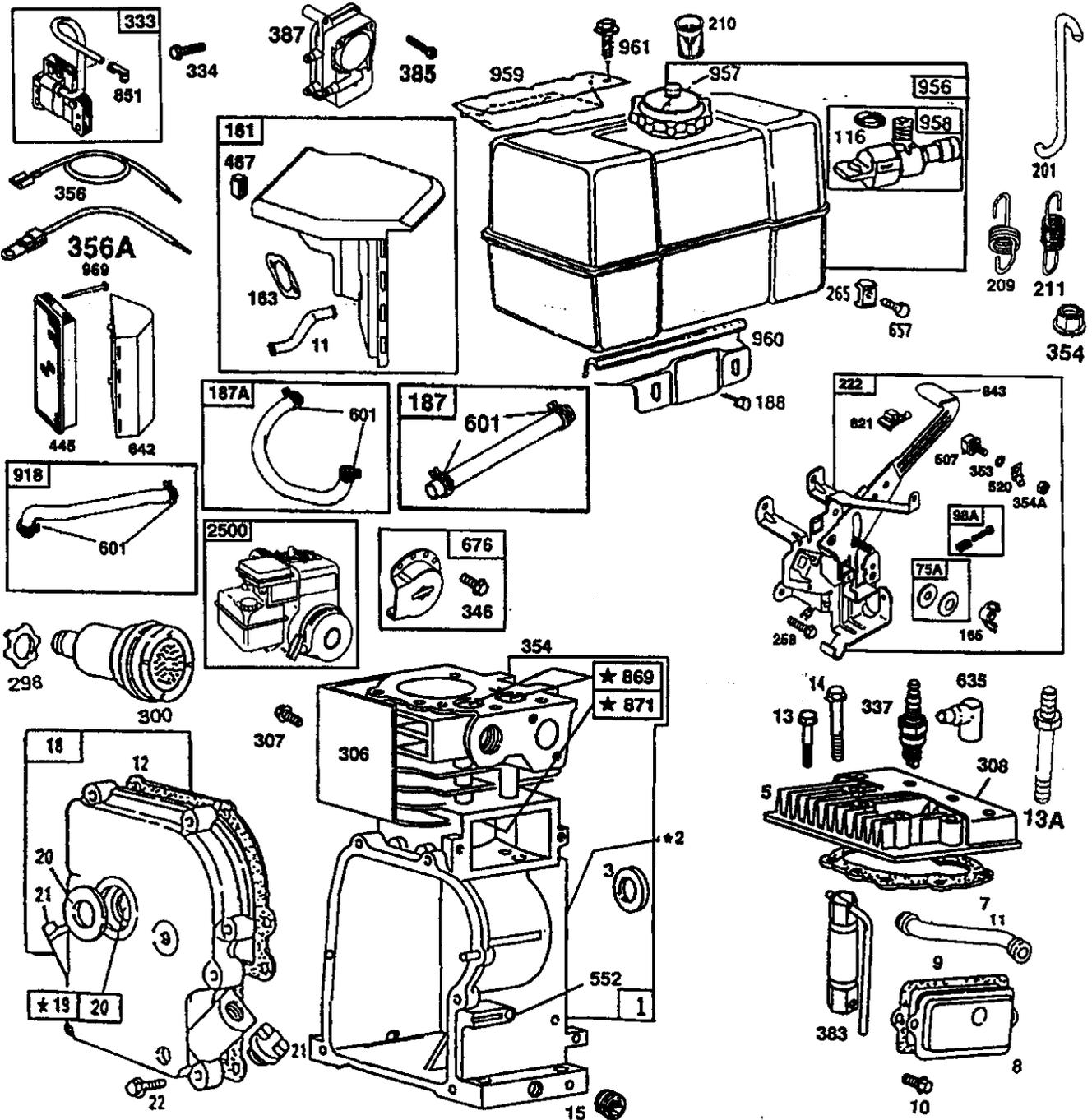


KEY NO.	PART NO.	DESCRIPTION
1	158097	Decal, Logo
2	157986	Decal, Logo
3	157987	Decal, Logo
4	138813	Decal, Craftsman
5	110614X	Decal, Hand Placement
6	138546	Decal, Shift Indicator
7	120076X	Decal, Warning, Rotaing Tines
8	110612X	Decal, Caution
9	165270	Decal, Briggs & Stratton
10	137282	Decal, Instr.
11	157988	Decal, Cou. Rot. Tines
12	168260	Decal, Tine, Depth Stake
13	162384	Decal, Warning, Till Eng/Fr
--	168560	Manual, Owner's (English)
--	168561	Manual, Owner's (French)

REPAIR PARTS

TILLER - - MODEL NUMBER 944.627592

ENGINE, BRIGGS & STRATTON - - MODEL NUMBER 19G402, TYPE NO. 1170-E1



1036 LABEL KIT

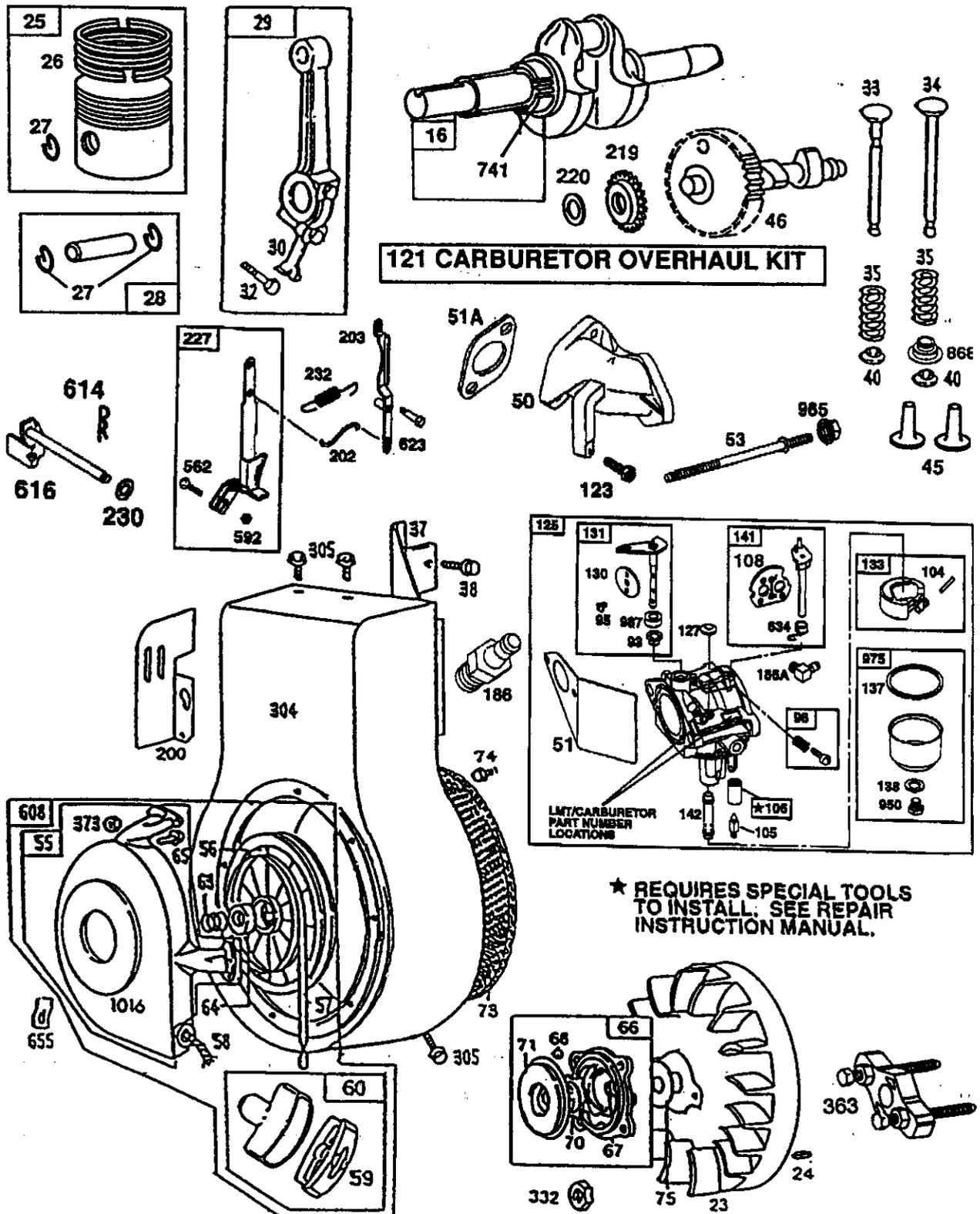
358 GASKET SET

★ REQUIRES SPECIAL TOOLS TO INSTALL.
SEE REPAIR INSTRUCTION MANUAL.

REPAIR PARTS

TILLER - - MODEL NUMBER 944.627592

ENGINE, BRIGGS & STRATTON - - MODEL NUMBER 19G402, TYPE NO. 1170-E1



★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

REPAIR PARTS

TILLER - - MODEL NUMBER 944.627592

ENGINE, BRIGGS & STRATTON - - MODEL NUMBER 19G402, TYPE NO. 1170-E1

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 495631	Cylinder Assembly	56 295871	Pulley, Rewind Starter
2 495657	Bushing, Cylinder	57 490179	Spring, Rewind Starter
3 391086	* Seal, Oil	58 66884	Rope, Rewind Starter
5 214347	Head, Cylinder	59 490653	Insert, Starter Handle
7 272163	ø* Gasket, Cylinder Head	60 490652	Handle, Rewind Starter
8 498038	Breather Assembly	63 260414	Spring, Ratchet
9 27803	ø* Gasket, Breather	64 281204	Adapter, Ratchet Spring
10 94621	Screw, Sems	65 94904	Screw, Rewind Starter Housing
11 280819	Tube, Breather		Mounting
12 271701	* Gasket, Crankcase Cover 1/64 "	66 399671	Clutch Assembly, Rewind Starter
27876	* Gasket, Crankcase Cover .005 "	67 394897	Housing, Rewind Starter Clutch
27877	* Gasket, Crankcase Cover .009 "	68 63770	Ball, Clutch
13 94565	Screw, Cylinder Head 3-9/16"	70 298799	Ratchet, Rewind Starter Clutch
13A 94926	Stud, Hex, Drive	71 394506	Washer, Clutch Retaining
14 93723	Screw, Cylinder Head 3"	73 224874	Screen, Rewind Starter
15 94880	Plug, Oil Drain, Flush	74 94680	Screw, Sems
94239	Plug, Oil Drain, Square Head	75 225136	Washer, Spring
16 495648	Crankshaft	75A 495659	Washer, Set
94388	Key, Timing Gear Retaining	93 281346	• Bushing, Throttle Shaft
18 496982	Cover Assembly, Crankcase	94 496589	Valve, Idle Adjustment
19 295964	Bushing, Crankcase	95 94098	• Screw, Slotted
20 391086	* Seal, Oil	98 495800	Screw, Idle Speed
21 281658	Plug, Oil Filler	98A 493280	Screw, Idle Speed
22 93585	Screw, Crankcase Cover	104 231789	• Pin, Float Hinge
23 298260	Flywheel	105 231935	• Valve, Needle
24 222698	Key, Flywheel	106 231856	• Seat, Inlet
25 499907	Piston Assembly standard	108 224666	Valve, Choke
499908	Piston Assembly, .010" O.S.	116 280203	O-Ring, Fuel Valve
499909	Piston Assembly, .020" O.S.	121 497581	Carburetor Overhaul Kit
499910	Piston Assembly, .030" O.S.	123 94913	Screw Torx-
26 499921	Ring Set, Piston Standard	125 690011	Carburetor
690018	Ring Set, Piston, 0,010" Oversized		• Plug, Welch (Sold in Kit Only)
690019	Ring Set, Piston, 0,020"	130 224539	Valve, Throttle
690020	Ring Set, Piston, 0,030" Oversized	131 498846	Shaft, Throttle
27 263181	Lock, Piston Pin	133 494381	Float, Carburetor
28 499911	Pin Assembly, Piston Standard	137 281165	Δ* Gasket, Float Bowl
499920	Pin Assembly, Piston 005" O.S.	138 281164	Δ* Washer
29 390401	Rod Assembly, Connecting (Std.)	141 497160	Shast, Choke
390773	Rod Assembly, Connecting (.020" U. S.)	142 690125	Nozzle, Carburetor (Standard)
30 222113	Dipper, Connecting Rod	690126	Nozzle, Carburetor (High Altitude)
32 92659	Screw, Connecting Rod	161 497669	Base, Air Cleaner
33 263017	Valve, Exhaust	163 273101	ø* Gasket, Air Cleaner
34 261055	Valve, Intake	165 94692	Nutwing
35 65906	Spring, Valve	186 230318	Connector, Hose
37 222475	Guard, Flywheel	186A 493496	Connector, Hose
38 94811	Screw, Sems		
40 221596	Retainer valve		
45 260933	Tappet, Valve		
46 214786	Gear, Cam		
50 214170	Elbow, Intake		
51 272708	Δ* Gasket, Carburetor Mounting		
51A 272707	Δ* Gasket, Intake Manifold		
53 94778	Stud, Carb. Mounting		
55 393576	Housing, Rewind Starter		

RPM Settings: Low: 1750 - 1950
High: 3500 - 3700

- * Included in Gasket Set (497070)
- Included in Carburetor Kit (497578)
- Included in Carburetor Gasket Set (497069)
- ø Included in Valve Overhaul Gasket Set (497534)

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

REPAIR PARTS

TILLER - - MODEL NUMBER 944.627592

ENGINE, BRIGGS & STRATTON - - MODEL NUMBER 19G402, TYPE NO. 1170-E1

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
187 296004	Line, Fuel	601 95162	Clamp, Fuel Pipe
187A 497029	Line, Fuel	608 390391	Starter, Rewind
188 94627	Screw, Hex	614 93306	Cotter Pin
200 221760	Guide, Air	616 496818	Crank, Governor
201 263051	Link, Governor	621 396847	Switch, Stop
202 263049	Link, Throttle	623 231520	Screw, Shoulder
203 497207	Lever, Linkage	634 494455	• Seal, Choke Shaft
209 263212	Spring, Governor	635 66538	Elbow, Spark Plug
210 492044	Strainer, Fuel	642 281357	Cover, Air Cleaner
211 263182	Spring, Governed Idle	655 222598	Anchor, Spring
219 497037	Gear Governor	657 94906	Screw, Sems
220 221551	Washer, Thrust	676 393757	Deflector, Exhaust
222 499103	Plate, Governor Control	741 263025	Gear, Timing
227 499096	Lever Assembly, Governor	843 280643	Sleeve, Lever
230 94927	Washer, Governor Crank	851 493880	Terminal, Ignition Cable
232 263020	Spring, Link	868 497656	Seal, Intake Valve
258 94929	Screw, Sems	869 211661	Seat, Intake and Exhaust Valves
265 221535	Clamp, Casing	871 231218	Guide, Intake and Exhaust Valves
298 261409	Locknut, Muffler	918 497457	Line, Vacuum
300 496127	Muffler, Exhaust	950 94642	Plug
304 491596	Housing, Blower	956 493337	Fuel Tank Assembly
305 94786	Screw, Sems	957 493988	Cap, Fuel Tank
306 496797	Shield, Cylinder	958 399517	Valve, Fuel Shut-Off
307 94930	Screw, Cylinder Shield	959 495664	Bracket, Fuel Tank, Upper
308 225055	Cover, Cylinder Head	960 492990	Bracket, Fuel Tank, Lower
332 92284	Nut, Flywheel	961 94095	Screw, Tank Mounting
333 398811	Armature, Magneto	965 94010	Nut, Hex
334 94731	Screw, Armature Mounting	969 94777	Screw, Slotted Hex
337 496018	Spark Plug	975 494378	Bowl, Float
346 94896	Screw, Sems	985 398525	Insulator
353 92791	Washer, Lock	987 281166	• Seal, Throttle Shaft
354 94726	Nut, Hex	1016 490817	Spacer
354A 90576	Nut, Hex	1036 499354	Label Kit, Emission
356 398838	Wire, Ground	1058 273682	Owner's Manual
356A 496868	Wire, Ground	2500 192402-1015	Replacement Engine
358 497070	Gasket Set	-- 497536	Replacement Shortblock
363 19203	Puller, Flywheel		
373 94908	Nut, Hex		
383 89838	Wrench, Spark Plug		
385 94789	Screw, Fuel Pump Mounting		
387 496257	Pump, Fuel		
445 496077	Cartridge, Air Cleaner		
467 280715	Knob, Air Cleaner		
520 93722	Terminal, Spade		
552 491893	Bushing Governor Crank		
562 94907	Bolt, Carriage		
592 231978	Nut, Hex		
		RPM Settings:	Low: 1750-1950 High: 3500-3700
		*	Included in Gasket Set (497070)
		.	Included in Carburetor Kit (497578)
		.	Included in Carburetor Gasket Set (497069)
		ø	Included in Valve Overhaul Gasket Set (497534)
		NOTE:	All component dimensions given in U.S. inches 1 inch = 25.4 mm

SEARS OWNER'S MANUAL

MODEL NO.
944.627592

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FOR REPAIR SERVICE, CALL
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9.0 HP

21 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 Canada, Inc. Service Centre and most Retail Stores.

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- **PRODUCT - REAR TINE TILLER**
- **MODEL NUMBER - 944.627592**
- **ENGINE MODEL NUMBER - 19G402, TYPE NUMBER 1170-E1**
- **PART NUMBER**
- **PART DESCRIPTION**

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