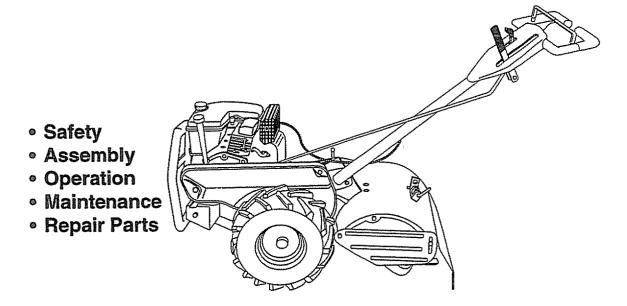
# Owner's Manual

# **ERAFTSMAN®**

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

# TILLER

Model No. 917.293401





This product has a low emission engine which operates differently from previously built engines. Before you start the engine, read and understand this Owner's Manual.

## **CAUTION:**

Read and follow all Safety Rules and Instructions before operating this equipment

Sears, Roebuck and Co., Hoffman Estates, IL 60179

# Safety Rules 2 Service and Adjustments 15 Warranty 2 Storage 19 Product Specifications 4 Troubleshooting 20 Assembly 5 Illustrated Parts List 22 Operation 8 Parts Ordering Back Cover Maintenance 13

#### WARRANTY

#### LIMITED TWO YEAR WARRANTY ON CRAFTSMAN TILLER

For two (2) 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 thirty (30) days from the date of purchase.

Warranty service is available by returning the craftsman power mower to the nearest sears service center/department in the united states. This warranty applies only while this product is in use in the united states.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

SEARS, ROEBUCK AND CO., D/817WA, HOFFMAN ESTATES, IL 60179

#### SAFETY RULES

#### 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.

ACAUTION: 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.

#### WARNING

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

#### PRODUCT SPECIFICATIONS

HORSEPOWER:	6.0 HP
DISPLACEMENT:	11.88 CU. IN.
GASOLINE CAPACITY:	4 Quarts Unleaded Regular
OIL (API-SF/SG/SH):	SAE 30 (Above 32°F)
(CAPACITY: 20 oz.)	SAE 5W-30 (Below 32°F)
SPARK PLUG : (GAP: .030")	Champion N4C

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

Should you experience any problems you cannot easily remedy, please contact your nearest authorized Sears Service Center/Department. We have competent, well-trained technicians and the proper tools to service or repair this unit. Please read and retain this manual. The instructions will enable you to assemble and maintain your tiller properly. Always observe the "SAFETY RULES". Your new tiller has been assembled at the

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.

#### 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.

WARNING: 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.

## **ACCESSORIES**

These accessories were available when the tiller was purchased. They are also available at most Sears Retail outlets and Service Centers. Most Sears Stores can order repair parts for you when you provide the model number of your tiller.

ENGINE							
SPARK PLUG	MUFFLER	AIR FILTER	GAS CAN	ENGINE OIL	STABILIZER		
TILLER PERFORMANCE FURROW OPENER							
TILLER MAIN	TENANCE						
BELT		TINES	SHEAR P	N HA	IRPIN CLIP		
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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.

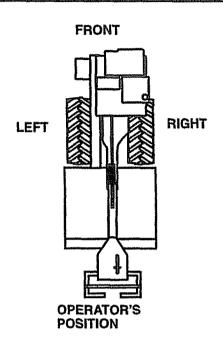
#### **TOOLS REQUIRED FOR ASSEMBLY**

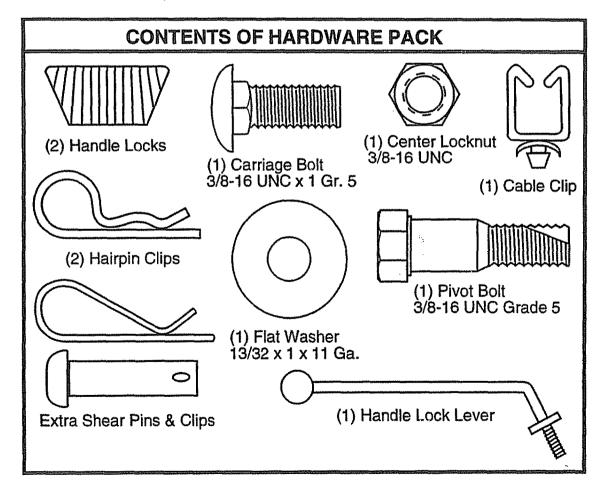
A socket wrench set will make assembly easier. Standard wrench sizes are listed.

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

#### **OPERATOR'S POSITION**

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



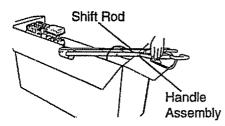


#### **UNPACKING CARTON**

**ACAUTION:** 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.

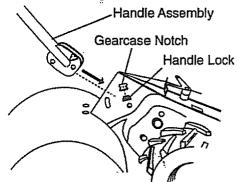
- While holding handle assembly, cut cable ties securing handle assembly to top frame. Let handle assembly rest on tiller.
- · Remove top frame of carton.
- Slowly ease handle assembly up and place on top of carton.
- Cut down right hand front and right hand rear corners of carton, lay side carton wall down.
- Remove packing material from handle assembly.
- Separate shift rod from handle assembly.



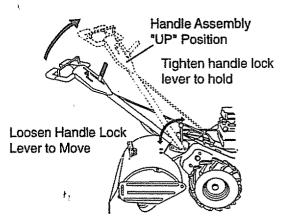
#### **INSTALL HANDLE**

 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.)

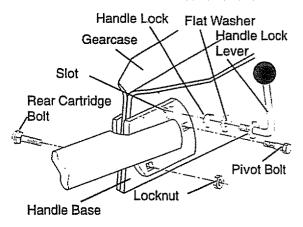




- Grasp handle assembly. Hold in "up" position. Be sure handle lock remains in gearcase notch. Slide handle assembly into position.
- Rotate handle assembly down. Insert rear carriage bolt first, with head of bolt on L.H. side of tiller and loosely assemble locknut.

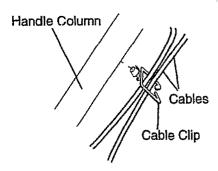


- Insert pivot bolt in front part of plate and tighten.
- Cut down remaining corners of carton and lay panels flat.
- Lower the handle assembly. Tighten nut on carriage bolt so handle moves with some resistance. This will allow for easier adjustment.
- Place flat washer on threaded end of handle lock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



#### **INSERT CABLE CLIP**

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

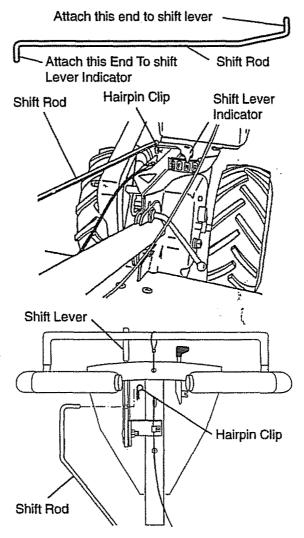


#### **CONNECT SHIFT ROD**

- 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.

#### REMOVE TILLER FROM CRATE

- Adjust handle assemby to lowest position. Be sure lock lever is tightened securely.
- Make sure shift lever indicator is in "N" (neutral) position.
- Tilt tiller forward by lifting handle.
   Separate cardboard cover from leveling shield.
- 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.

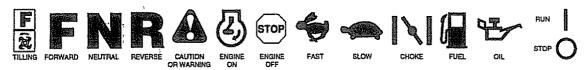
#### HANDLE HEIGHT

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

## **OPERATION**

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

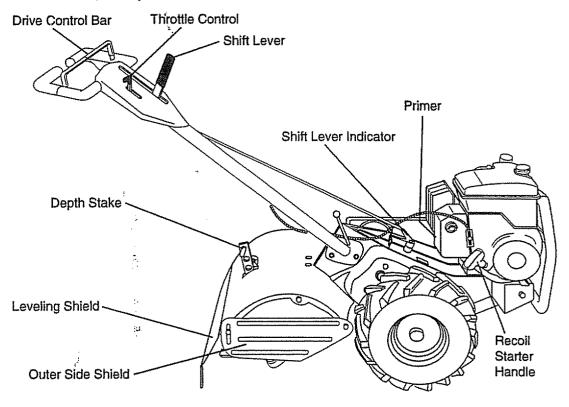
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#### **KNOW YOUR TILLER**

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.



#### 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.

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



The operation of any tiller can result in foreign objects thrown into the eyes, which canresult in severe eye damage. Always wear safety glasses or eye shields before starting your tiller and while tilling. We recommend a wide vision safety mask over the spectacles or standard safety glasses.

#### **HOW TO USE YOUR TILLER**

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

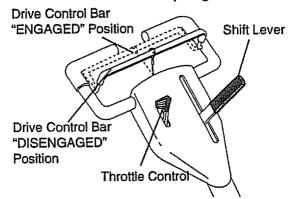
#### **STOPPING**

#### **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.



# 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 ( 元 ) till position and engaging drive control bar.

# FORWARD - WHEELS ONLY/TINES STOPPED

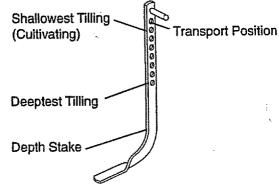
 Release drive control bar and move shift lever indicator to "F" (forward) position.
 Engage drive control bar and tiller will move forward.

# 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**

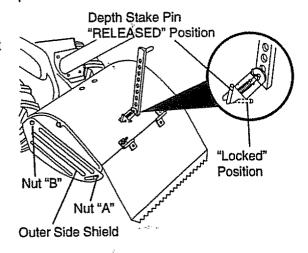
The depth stake can be raised or lowered to allow you more versatile tilling and cultivating, or to more easily transport your tiller.



#### TILLING

- 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.



#### **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 turnaround, 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**

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**

ACAUTION: 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.

#### **AROÙND TOWN**

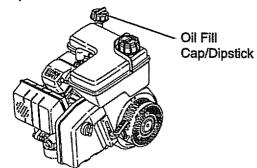
- Disconnect spark plug wire.
- Drain fuel tank.
- Transport in upright position to prevent oil leakage.

#### **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**

- The engine in your unit has been shipped, from the factory, already filled with SAE 30 summer weight oil.
- Be sure tiller is level and the area around oil fill is clean.
- Check oil level before each use. Add oil if needed. Fill to full line on dipstick.
- To read proper level, tighten engine oil cap each time.
- Reinstall engine oil cap and tighten.
- For approximate capacity see "PROD-UCT SPECIFICATIONS" on page 4 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.



#### ADD GASOLINE

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

IMPORTANT: When operating in temperatures below 32°F (0°C), use fresh, clean, winter grade gasoline to help insure good cold weather starting.

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

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

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

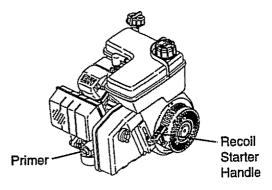
#### TO START ENGINE

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

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

- Make sure spark plug wire is properly connected.
- Move shift lever indicator to "N" (neutral) position.
- · Place throttle control in "FAST" position.
- To start a cold engine, push primer five (5) times before trying to start. Use a firm push. This step is not usually necessary when starting an engine which has already run for a few minutes.
- Grasp recoil starter handle with one hand and grasp tiller handle with other hand. Pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point).
- Pull recoil starter handle quickly. Do not let starter handle snap back against starter.
- Allow engine to warm up for a few minutes before engaging tines.

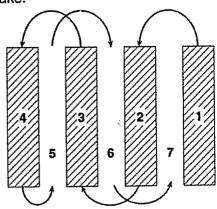
NOTE: In cooler weather it may be necessary to repeat priming steps. In warmer weather over priming may cause flooding and engine will not start. If you do flood engine, wait a few minutes before attempting to start and do not repeat priming steps.



#### TILLING HINTS

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

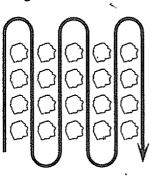
- Tilling is digging into, turning over, and breaking up packed soil before planting. Loose, unpacked soil helps root growth. Best tilling depth is 4" to 6". A tiller will also clear the soil of unwanted vegetation. The decomposition of this vegetable matter enriches the soil.
   Depending on the climate (rainfall and wind), it may be advisable to till the soil at the end of the growing season to further condition the soil.
- 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.
- You will find tilling much easier if you leave a row untilled between passes.
   Then go back between tilled rows. 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.
- 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.



#### **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" (2.5-7.5 cm). 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.



#### **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.

# MAINTENANCE

MAINTENANCE SCHEDULE		EL CHE ENC				7				<del>- 4.5.11.1</del>		**************************************
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Check Engine Oil Level	6	4				i sakeri						
Change Engine Oil				<b>1</b> ,2								
Oil Pivot Points		0/									,	
Inspect Spark Arrester / Muffler											4	
Inspect Air Screen	6/											
Clean or Replace Air Cleaner Cartridge				<b>1</b> /2								
Clean Engine Cylinder Fins				8/								
Replace Spark Plug				6/				F)				

- Change more often when operating under a heavy load or in high ambient temperatures.
   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.

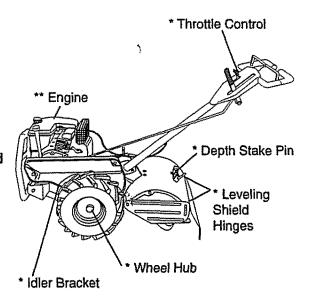
#### **BEFORE EACH USE**

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

#### LUBRICATION

Keep unit well lubricated (See "LUBRICA-TION CHART").

#### **LUBRICATION CHART**



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

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

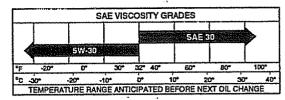
Prevent fires! Keep the engine free of grass, leaves, spilled oil, or fuel. Remove fuel from tank before tipping unit for maintenance. Clean muffler area of all grass, dirt, and debris.

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.



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.

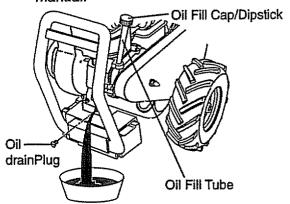
Change the oil after every 50 hours of operation or at least once a year if the tiller is not used for 50 hours in one year. Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Add SAE 30 motor oil of equivalent. Tighten oil filler plug securely each time you check the oil level.

#### TO CHANGE ENGINE OIL

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

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

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



#### AIR FILTER

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 50 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.

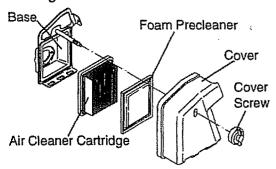
Remove cover screw and cover.

#### TO SERVICE PRE-CLEANER

- Remove foam pre-cleaner from air cleaner cover.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace precleaner.
- Reinstall pre-cleaner into air cleaner cover.
- Reinstall cover and secure screw.
   TO SERVICE CARTRIDGE
- Carefully remove cartridge to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge, cover with pre-cleaner and secure with screw.

**IMPORTANT:** Petroleum solvents, such as kerosene, are not to be used to clean the cartridge. They may cause deterioration of the cartridge. Do not oil cartridge.

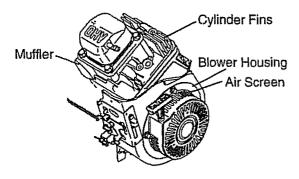
Do not use pressurized air to clean or dry cartridge.



#### **COOLING SYSTEM**

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

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



#### 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 "PROD-UCT SPECIFICATIONS" on page 4 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**

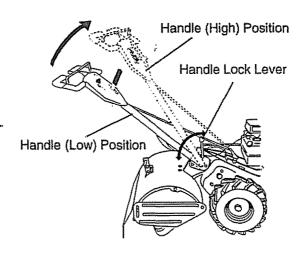
**ACAUTION:** Disconnect spark plug wire from spark plug and place wire where it cannot come into contact with plug.

#### TILLER

#### TO ADJUST HANDLE HEIGHT

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.



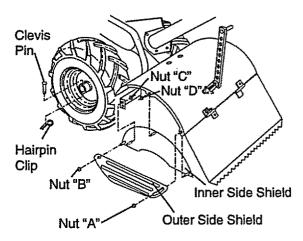
#### TIRE CARE

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

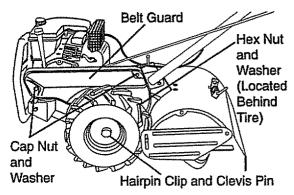
- Place blocks under transmission to keep tiller from tipping.
- Remove outer side shield by removing nuts "A" and "B".
- Remove inner side shield by removing nuts "C" and "D".
- Remove hairpin clip and clevis pin from wheel.
- Remove wheel and tire. Repair tire and reassemble.



#### TO REMOVE BELT GUARD

**NOTE:** For ease of removal, 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 quard out and away from unit.
- Replace belt guard by reversing above procedure.



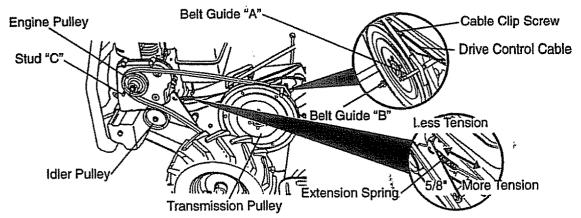
# TO REPLACE GROUND DRIVE BELT

- Remove belt guard as described in "TO REMOVE BELT GUARD".
- Loosen belt guides "A" and "B" and also stud "C".
- Remove old belt by slipping from engine pulley first then remove from transmission pulley.
- 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 stud "C".
- Check belt adjustment as described below.
- Replace belt quard.
- Reposition wheel and replace clevis pin and hairpin clip.

#### GROUND DRIVE BELT ADJUST-MENT

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.

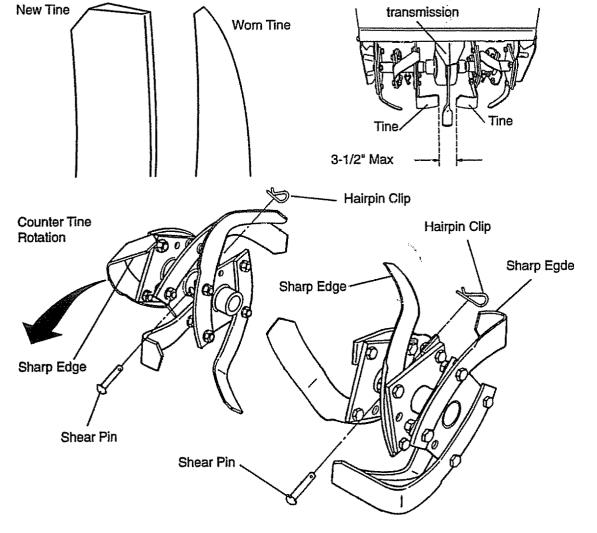


#### TINE REPLACEMENT

ACAUTION: 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.

- 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. Sharpened tine edges will rotate rearward from above.



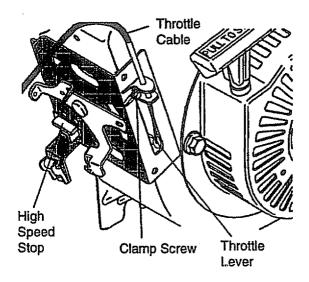
#### ENGINE

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

# TO ADJUST THROTTLE CONTROL CABLE

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

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



#### TO ADJUST CARBURETOR

The carburetor has been preset at the factory and adjustment should not be necessary. However, engine performance can be affected by differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, contact your nearest authorized service center/department **IMPORTANT:** never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest authorized service center/department, which has the proper equipment and experience to make any necessary adjustments.

## STORAGE

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

ACAUTION: 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

- · 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.

# TROUBLE SHOOTING

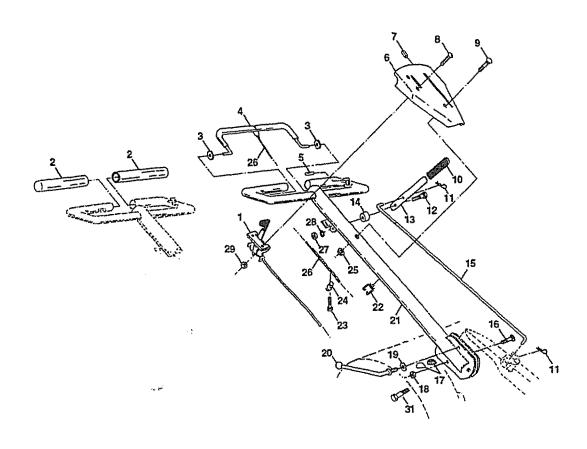
PROBLEM	CAUSE	CORRECTION
Will not start	Out of fuel.    Engine not "CHOKED"    properly.	Fill fuel tank.     See "TO START ENGINE" in.the Operation section.
	3. Engine flooded.	Wait several minutes before attempting to start.
	4. Dirty air cleaner.	Clean or replace air cleaner car tridge.
	5. Water in fuel.	5. Drain fuel tank and carburetor, and refill tank with fresh gasoline.
	Clogged fuel tank.     Loose spark plug wire.	<ul><li>6. Remove fuel tank and clean.</li><li>7. Make sure spark plug wire is seat</li></ul>
	Bad spark plug or improper gap.	ed properly on plug.  8. Replace spark plug or adjust gap.
	9. Carburetor out of adjust- ment.	9. Make necessary adjustments.
Hard to start	Throttle control not set properly.	Place throttle control in "FAST"     position.
	2: Dirty air cleaner.	Clean or replace air cleaner car tridge.
	Bad spark plug or improper gap.	3. Replace spark plug or adjust gap.
	4. Stale or dirty fuel.	Drain fuel tank and refill with fresh gasoline.
	5. Loose spark plug wire.	Make sure spark plug wire is seat ed properly on plug.
	Carburetor out of .     adjustment.	Make necessary adjustments.
Loss of power	1. Engine is overloaded.	Set depth stake and wheels for shallower tilling.
	2. Dirty air cleaner.	Clean or replace air cleaner car tridge.
	Low oil level/dirty oil.     Faulty spark plug.	Check oil level/change oil.     Clean and regap or change spark
	5. Oil in fuel.	plug. 5. Drain and clean fuel tank and refill, and clean carburetor.
	6. Stale or dirty fuel.	Drain fuel tank and refill with fresh gasoline.
	7. Water in fuel.	7. Drain fuel tank and carburetor, and refill tank with fresh gasoline.
	8. Clogged fuel tank.	8. Remove fuel tank and clean. 9. Connect and tighten spark plug
	Spark plug wire loose.     wire.	
	10. Dirty engine air screen.	<ul><li>10. Clean engine air screen.</li><li>11. Clean/replace muffler.</li></ul>
	11. Dirty/clogged muffler. 12. Carburetor out of	12. Make necessary adjustments.
	adjustment.	The state state of the state of
	13. Poor compression.	Contact an authorized Sears     Service Center/Department.

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# REPAIR PARTS

# TILLER - - MODEL NUMBER 917.293401

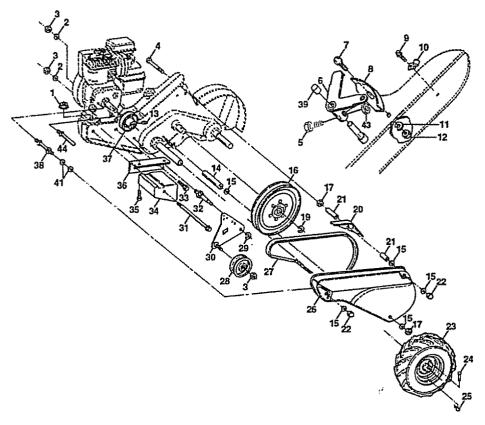
# HANDLES



KEY	PART	DESCRIPTION	KEY	PART NO	DESCRIPTION
<b>KEY NO.</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	PART NO. 127012X 141406 110673X 127254X 6712J 137119 110641X 71191008 72010520 110646X STD624003 81328 110741X 109313X 110702X	Throttle, Control Grip, Handle Grommet, Handle Bar, Drive Control Assembly Cap, Vinyl Panel, Control Bushing, Split *Screw, Pan Head #10-24 *Bolt, 5/16-18 x 2-1/2 Handle, Grip *Clip, Hairpin Bolt, Shoulder Handle, Shift Grommet, Rubber Rod, Shift	KEY NO.  18 19 20 21 22 23 24 25 26 27 28 29 31	PART NO. STD541437 19131611 109228X 150258 121145X 86777 9484R 73970500 110675X STD541025 STD551125 STD551125 STD541462 150696	*Nut, Centerlock 3/8-16 Washer 13/32 x 1 x 11 Ga. Lever, Lock, Handle Handle, Assemble Clip, Plastic, Cable Screw, Hex, Washer Hd, Slotted #10-24 x 1/2 Clip Locknut, Hex, Flange Clutch, Cable *Nut, Hex 1/4-20 *Washer, Lock 1/4 *Nut, Keps #10-24 Bolt, Pivot
16 17	STD533710 109229X	*Bolt, Carriage 3/8-16 x 1 Gr. 5 Lock, Handle			WARE PURCHASE LOCALLY t dimensions given in U.S. inches 25.4 mm

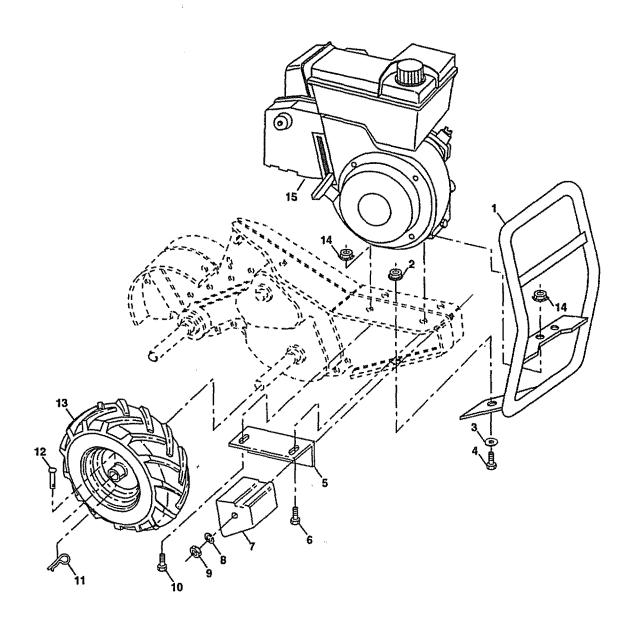
# TILLER - - MODEL NUMBER 917.293401

# MAINFRAME, LEFT SIDE



KEY	PART	DESCRIPTION	KEY	PART	DESCRIPTION
NO.	NO.		NO.	NO.	<b>~.</b> ,
1	STD541431	Nut, Keps 5/16-18	24	126875X	Rivet, Drilled
2	STD551137	*Washer, Lock 3/8	25	STD624003	*Clip, Halmin
3	STD541037	*Nut, Hex 3/8-16	26	131159X574	Guard, Belt
4	74930568	Bolt, Hex 5/16-18 x 4-1/4	27	132801	Belt, V
5	154734	Screw Shift Lever	28	104679X	Pulley, idler
6	110111X	Lever, Shift	29	12000032	Ring, Klip
7	STD532505	*Bolt, Carriage 1/4-20 x 1/2	30	159229	Bracket, Idler
		Gr. 5	31	102384X	Bolt, Hex 5/16-16 x 12
8	8700J	Plate, Shift Indicator	32	102141X	Shaft, Idler Arm
9	86777	Screw, Hex, Washer Head,	33	STD523710	*Bolt, Hex 3/8-16 x 1
		Slotted #10-24 x 1/2	34	102383X	Counterweight, L.H.
10	9484R	Clip	35	74760532	Bolt, Hex 5/16-18 x 1 1/2
11	STD551125	*Washer, Lock 1/4	36	102331X	Bracket, Reinforcement, L.H.
12	STD541025	*Nut, Hex 1/4-20	37	130812	Sheave, Engine
13	23230506	*Screw, Set, 5/16-18 x 3/8	38	145822	Stud, Guard Belt
14	120938X	Spacer, Split 0.327 x 0.42	39	140062	Cap, Plunger
		x 2.68	41	19111610	Washer 11/32 x 1 x 10 Ga.
15	STD551031	*Washer 11/32 x 11/16 x 16 Ga.	42	151004	Spacer
16	145102	Sheave, Transmission	43	69180	Nut Lock #10-24
17	STD541031	*Nut, Hex 5/16-18	44	164173	Belt, Keeper
19	12000028	Ring, Retainer			, · · · · · · · · · · · · · · · · ·
20	110653X	Guard, Pinch Point	*CTAN		ARE PURCHASE LOCALLY
21	145216	Spacer, Split 0.327 x 0.42			
		x 1.688	NOIE:	All component	dimensions given in U.S. Inches.
22	104214X	Nut, Cap 5/16-18		1 inch = $25.4  \mathrm{i}$	mm
23	5015J	Tire			
	128952	Rim			
	795R	Tire Valve			

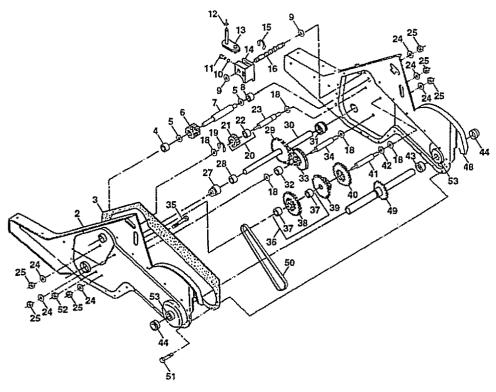
# TILLER - - MODEL NUMBER 917.293401 MAINFRAME, RIGHT SIDE



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	157976	Bumper	11	STD624003	*Clip, Hairpin
2	73970500	Locknut, Hex, Flange 5/16-	12	126875X	Rivet, Drilled
		18	13	5015J	Tire
3	STD551031	*Washer 11/32 x 11/16 x 16		128952	Rim
		Ga.		795R	Tire Valve
4	74760512	Bolt, Hex 5/16-18 x 3/4	14	STD541431	*Nut, Keps 5/16-18
5	102332X	Bracket, Reinforcement	15	***	Engine, (See Breakdown)
6	74760532	Bolt, Hex 5/16-18 x 2			Craftsman Model No.
7	102173X	Counter Weight, R.H.			143.986001
8	STD551137	*Washer, Lock 3/8	STANI	DARD HARDWA	RE PURCHASE LOCALLY
9	STD541037	*Nut, Hex 3/8-16			dimensions given in U.S.inches.
10	74760524	Bolt, Hex 5/16-18 x 1-1/2		1 inch = 25.4 m	<del>-</del>
		•			

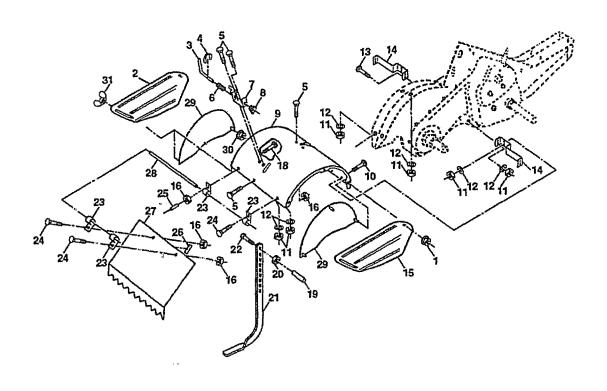
# TILLER - - MODEL NUMBER 917.293401

## **TRANSMISSION**



						ংশুরের
KE	Y PART	DESCRIPTION	KE	Υ	PART	DESCRIPTION
NC	NO.		NO	).	NO.	
1	154354	Transmission Assembly (Includes	30	15	0737	Ground Shaft Assembly
		Key Nos. 2-52)	31	14	3008	Bearing, Shaft, Ground Drive R.H.
2	150698	Gearcase, L.H. w/Bearing (Includes	32	10	6388X	Spacer 0.70 x 1.00 x 1.150
		Key No. 4)	33	10	2121X	Sprocket and Gear Assembly
3	106211X	Gasket, Gearcase	34	10	2112X	Shaft, Reduction (2nd)
4	5020J	Bearing, Needle	35	10	2101X	Screw, Whiz, Lock 5/16-18 x 3-1/2
5	1370H	Washer, Thrust 5/8 x 1.10 x 1/32	36	15	4355	Sprocket Assembly w/Bearing
6	137335	Pinion, Input				(Includes Key Nos. 37 and 38)
7	145101	Shaft, Input	37	44	22J	Bearing, Needle
8	4895 <b>H</b>	Bearing, Needle	38	15	4356	Sprocket, Tine
9	154467	Washer, Seal	39	10	5345X	Gear, Cluster, Red 1st & 2nd
10	7392M	Ball, Steel	40	10	5346X	Gear, Reverse
11	100371K	Spring, Shift, Fork	41	83	58J	Shaft, Reduction (1st)
12	106160X	O-Ring	42	42	20R	Washer, Thrust
13	142145	Arm, Shift	43	10	6146X	Spacer 1.01 x 1.75 x 0.760
14	8353J	Fork, Shift	44	15	5236	Seal Asm. Oli
15	12000039	Ring, Klip	48	15	0700	Gearcase, R.H. w/Bearing (Includes
16	154466	Shaft, Shift				Key No. B)
18	4358J	Washer	49	13	2688	Shaft, Tine
19	12000040	Ring, Klip	50	10	6147X	Chain, Roller #50-50 Pitch
20	102114X	Gear, Assembly, Reverse Idler	51	17	720408	Screw 1/4-20 x 1/2
		(Includes Key Nos. 21 and 22)	52	73	220500	*Nut, Hex 5/16-18
21	102115X	Gear, Reverse Idler	53	16	5140	Bearing Kit, Tine Shaft
22	6803J	Bearing, Needle		60	66J	Grease, Plastilube #1
23	102111X	Shaft, Reverse Idler				, · · · · · · · · · · · · · · · · ·
24	STD551143	*Washer, Lock 7/16	* ST	ΆN	DARD HA	ARDWARE PURCHASE LOCALLY
25	STD541143	*Nut, Hex 7/16-20	NOT	TE:	All comp	onent dimensions given in U.S. inches
27	143009	Bearing, Shaft, Ground Drive L.H.			1 inch = 2	25.4 mm
28	106390X	Spacer 0.765 x 1.125 x 1.23			-	
29	102134X	Chain #35-50 Pitch				

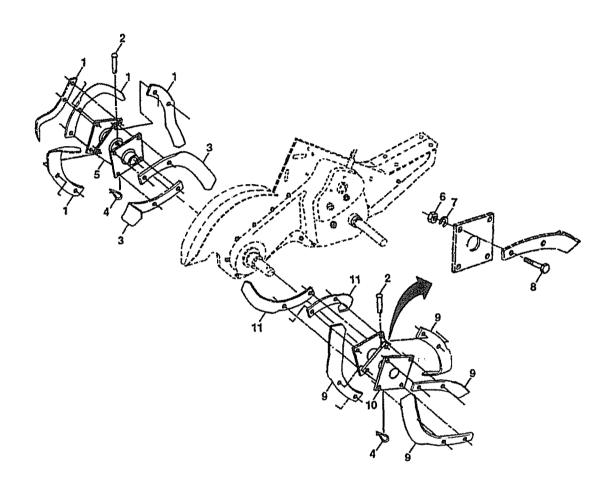
# TINE SHIELD



KEY	PART	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
NO.	NO.		NO.	14O.	
1	98000129	Nut, Flange 5/16-18	17	162175	Nut, Wing Forged 5/16-18
2	161415X574	Shield, Side, Outer L. H.	18	STD532512	*Bolt, Carriage 1/4-20 x 1-1/4 Gr. 5
3	8393J	Pin, Stake, Depth	19	102701X	Grip
4	12000036	Ring, Klip		STD541037	*Nut, Hex 3/8-16
5	STD533107	*Bolt, Carriage 5/16-18 x 3/4 Gr	20		
		5	21	102156X	Stake, Depth
6	8394J	Spring	22	74930632	Boit, Hex 3/8-16 x 2
7	8392J	Bracket, Latch	23	4440J	Hinge
8	109230X	Spring, Depth Stake	24	72140404	*Bolt, Carriage 1/4-20 x 1/4
9	124289X574	Shield, Tine	25	6712J	Cap, Vinyl
-	STD533110	*Bolt, Carriage 5/16-18 x 1 Gr. 5	26	109227X	Pad. Idler
10		*Nut, Hex 5/16-18	27	102695X574	Shield, Leveling
11	STD541031	•	28	120588X	Pin, Hinge
12	STD551131	*Washer, Lock 5/16	29	124309X574	Shleld, Side
13	72110510	Bolt, Carriage 5/16-18 x 1-1/4			
14	124311X	Bracket, Shield Tine	30	73970500	Locknut, Hex, Flange
15	161414X574	Shield, Side, Outer R.H.			ARE PURCHASE LOCALLY
16	73510400	Nut, Hex 1/4-20	NOTE	: All component 1 inch = 2	dimensions given In U.S. Inches 5.4 mm

# TILLER - - MODEL NUMBER 917.293401

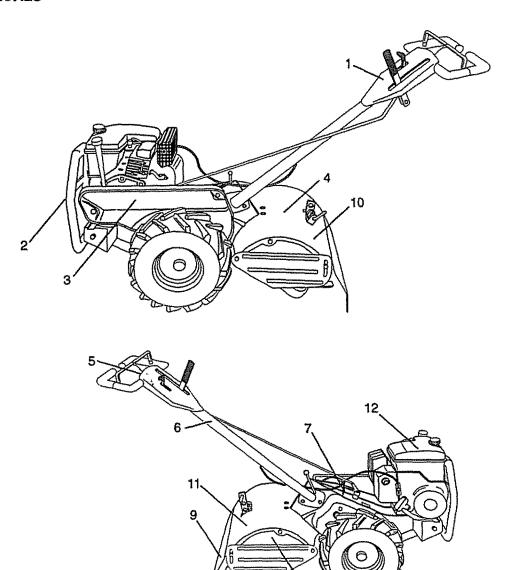
## TINE ASSEMBLY



KEY	PART	DESCRIPTION	KEY	PART	DESCRIPTION			
NO.	NO.		NO.	NO.				
1	4459J	Tine, Outer, L.H.	9	4460J	Tine, Outer, R.H.			
2	132673	Pin, Shear	10	132728	Assembly, Hub and Plate, R.H.			
3	6554J	Tine, Inner, L.H.	11	6555J	Tine, Inner, R.H.			
4	STD624008	*Clip, Hairpin						
5	132727	Assembly, Hub and Plate, L.H.			1414 mm - mattamet - matt			
6	73610600	Nut, Hex 3/8-24	* STANDARD HARDWARE PURCHASE LOCALLY					
7	STD551137	*Washer, Lock 3/8	NOTE: All component dimensions given in U.S. inche					
8	74610616	Bolt, Hex 3/8-24 x 1	1 inch = 25.4 mm					

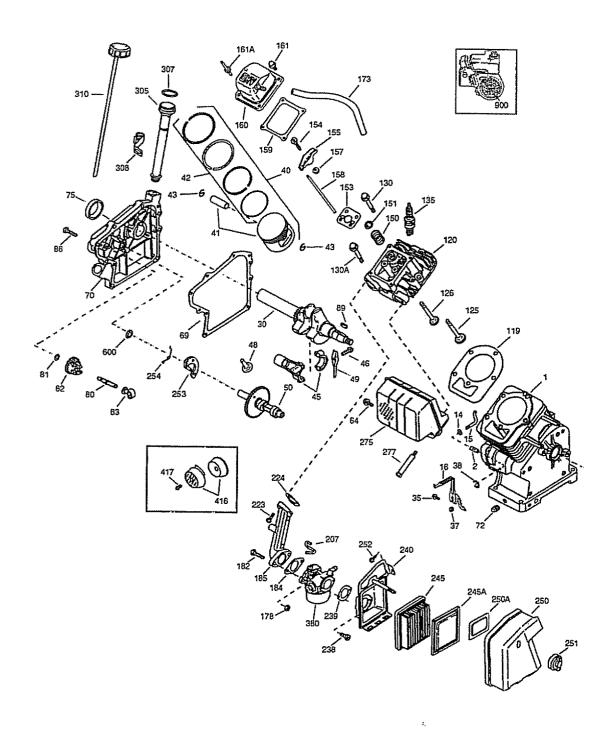
# TILLER - - MODEL NUMBER 917.293401

# **DECALS**

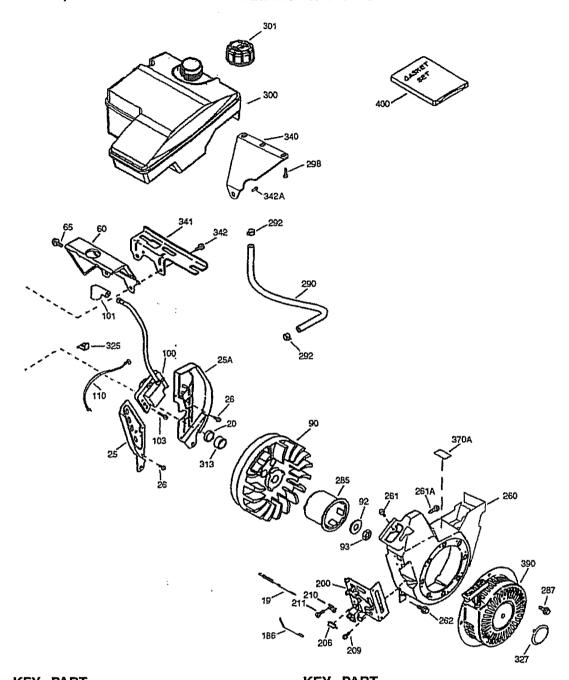


KEY	PART	DESCRIPTION
NO.	NO.	
1	158095	Decal, Logo
2	145023	Decal, Logo
3	157982	Decal, Logo
4	157983	Decal, Description
5	137538	Decal, Caution, Drive Control
6	120431X	Decal, Hand Placement
7	102180X	Decal, Shift Indicator
8	157984	Decal, Tine, Shield, Counter Rotating Tines
9	120075X	Decal, Warning, Rotating Tines
10	163094	Decal, Tine Depth Stake
11	162215	Decal, Tine, Shield, Warning Dom
12	164527	Decal
* *	164437	Manual, Owner's (English)
	164438	Manual, Owner's (Spanish)

# TILLER - - MODEL NUMBER 917.293401 ENGINE, TECUMSEH - - MODEL NUMBER 143.986001



# TILLER - - MODEL NUMBER 917.293401 ENGINE, TECUMSEH - - MODEL NUMBER 143.986001



KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	37107A	Cylinder (Incl. 2, 20 & 72)	37	29216	Lock Nut, 10-32
2	26727	Dowel Pin	38	37109	Retaining Ring
14	651052	Washer	40	40004	Piston, Pin & Ring Set (Std.)
15	37108	Governor Rod	40	40005	Piston, Pin & Ring Set (.010"
16	37110	Governor Lever			OS)
19	37111	Extension Spring	41	36070	Piston & Pin AssÕy (Std.) (Incl.
20	32600	Oil Seal			43)
25	36621	Air Baffle (Left)	41	36071	Piston & Pin AssOy
25A	36622	Air Baffle (Right)			(.010" OS) (Incl. 43)
26	30200	Screw, 10-24 x 9/16"	42	40006	Ring Set (Std.)
30	34740	Crankshaft	42	40007	Ring Set (.010" OS)
35	651053	Screw, 10-32 x 63/64"	43	20381	Piston Pin Retaining Ring

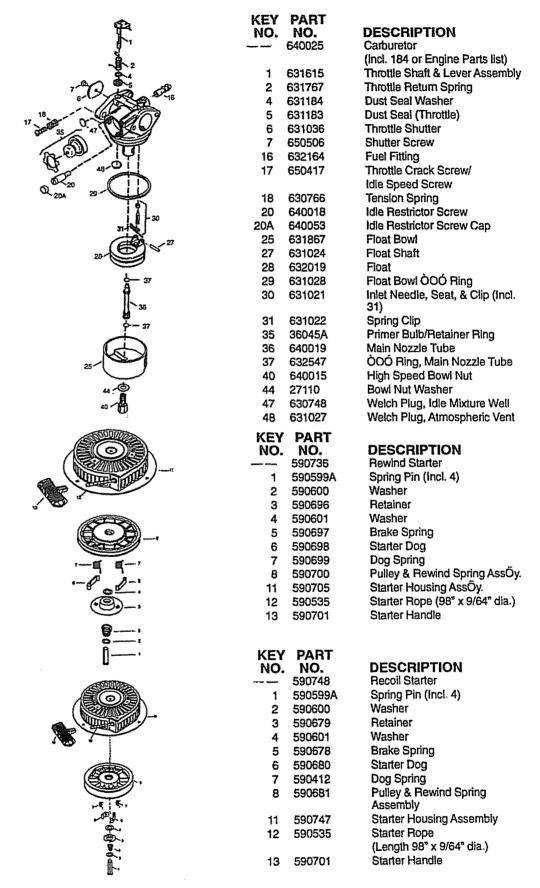
# TILLER - - MODEL NUMBER 917.293401

## ENGINE, TECUMSEH - - MODEL NUMBER 143.986001

No.   No.   DESCRIPTION   No.   No	ENGINE, TECOMSER MODEL NUMBER 143.986007								
NO.   NO.   DESCRIPTION   Section   Section   Conduct Clip	KEY	PART		KEY	PART				
2875A   Connecting Rold AssÖy   210   27793   Conduit Clip   Strew, 10-32 x 3/8"   Strew, 10-32 x 1/2"   Strew, 10-32 x 1/2"   Strew, 10-32 x 1/2"   Air Cleaner Gasket   Strew, 10-32 x 1/2"   Air Cleaner Eastle   Strew, 10-32 x 1/2"   Air Cleaner Eastle   Strew, 10-32 x 1/2"   Air Cleaner Eastle   Air Cleaner Filter (Poly)   Air Cleaner Filter (Poly	NO.	NO.	DESCRIPTION	NO.		DESCRIPTION			
(Incl. 46 & 49)  46 32610A Commeding Rod Bolt 223 650451 Screw, 14-20 x 1"  48 35616 Valve Litler 224 36581  37040 Camshaft (Incl. 253 & 254) 239 27272A  50 37040 Camshaft (Incl. 253 & 254) 239 27272A  60 36623A Blower Housing Extension 240 36653A Air Cleaner Body (Incl. 239)  46 65073B Screw, 10-24 x 9/16" 245A 36664  65073B Screw, 10-24 x 9/16" 245A 36634 Air Cleaner Filter (Poly)  47 27642 C) Clylinder Cover (Incl. 75 thru 83)  50 36625 C) Clylinder Cover (Incl. 75 thru 83)  50 36626 C) Clylinder Cover (Incl. 75 thru 83)  50 30574A Governor Shaft 253 36701  50 30574A Governor Shaft 253 36702  50 30574A Governor Shaft 253 36701  50 30574A Governor Shaft 253 36701  50 30574A Governor Shaft 253 36702  50 30574B Governor Spaol (251 65086 250821  50 30584B Governor Spaol (251 65086 250821  50 30584B Governor Governor Governor Governor Governor Governor Governor Governor G	45	32875A	Connecting Rod AssÕy						
46 32610A Connecting Rod Bot Dot 323 650451 Screw, 1/4-20x X1" 48 35615 Valve Lifter 224 36551 Intake Pipe Gasket 50790 70704 Camshaft (Incl. 253 & 254) 239 27272A Air Cleaner Body (Incl. 239) 36623A Blower Housing Extension 240 36633A Air Cleaner Body (Incl. 239) Air Cleaner Body (Incl. 239) Air Cleaner Body (Incl. 239) 36624 Cylinder Cover (Incl. 75 Inru 83) 36625 Cylinder Cover (Incl. 75 Inru 83) 250 37072 Air Cleaner Filter (Poly) Air Cleaner Filter (Poly) 36624 Cylinder Cover (Incl. 75 Inru 83) 250 37072 Air Cleaner Filter (Poly) Air Cleaner Filter (Poly) Air Cleaner Filter (Poly) 36624 Cylinder Cover (Incl. 75 Inru 83) 250 37072 Air Cleaner Filter (Poly)				211		•			
48 36516	46	32610A							
49 36611 Oil Dipper 238 28820 Sorew, 10-32 x 1/2" 50 37040 Camshaft (Incl. 253 & 254) 239 27272A * Air Cleaner Gasket 60 50738 Screw, 14-20 x 5/8" 245 36046 Air Cleaner Filter (Poly) Air Cleaner Filte	48								
50 37040 Camshaft (Incl. 253 & 254) 259 27272A	49	36611							
60 36623A Blower Housing Extension 240 36633A Air Cleaner Blody (Incl. 239) 46 465738 Screw, 14-20 x 58° 245 36046 Air Cleaner Filter (Poly) Air Cleaner Filter (Poly) 3603 36624 Cylinder Cover (Incl. 75 fihru 83) 2550 37072 Air Cleaner Filter (Poly) Air Cleaner Earlier (Poly) Ea									
64 650738   Screw, 10-24 x 91/6"   245   36046   Air Cleaner Filter (Poly)   36824   Cylinder Cover (asket   250   37072   Air Cleaner Filter (Poly)   36825   Cylinder Cover (Incl. 75 thru 83)   250   37072   Air Cleaner Entitler (Poly)   36825   Cylinder Cover (Incl. 75 thru 83)   250   37072   Air Cleaner Entitler (Poly)   37072   Air Cleaner Entitler (Poly)   37072   Air Cleaner Baiffle (Poly)   37072   Air Cleaner Entitler (Poly)   37072   Air Cleaner Baiffle (Poly)   37071									
Second									
Separate			•						
70 36625 Cylinder Cover (Incl. 75 Ihru 83) 250A 37074 Air Cleaner Battle 72 277642 Oil Drain Piug 251 650886 Wing Nut 75 27897 Oil Seal 252 650821 Screw, 10-32 x 1/2" 76 27897 Oil Seal 252 650821 Screw, 10-32 x 1/2" 76 30574A Governor Shaft 253 36701 Compression Release Weight 77 30590A Washer 253 36701 Compression Release Spring 81 30590A Washer 65024 Governor Spool 264 65702 Compression Release Spring 82 30591 Governor Spool 261 651008 Screw, 1/4-20 x 31/64" 83 36057 Governor Spool 261 651008 Screw, 1/4-20 x 31/64" 84 65048 Screw, 1/4-20 x 1-1/4" 261 A 650821 Screw, 1/4-20 x 31/64" 85 610931 Flywheel Key 262 651008 Screw, 1/4-20 x 31/64" 86 65048 Screw, 1/4-20 x 1-1/4" 261 A 650821 Screw, 1/4-20 x 31/64" 87 650851 Flywheel 275 36759 Muffler 87 650888 Screw, 1/4-20 x 31/64" 88 61007 Screw, 1/4-20 x 1-1/4" 265 35985B Starter Cup 90 611205 Flywheel 275 35985B Starter Cup 100 34443B Solid State Ignition 287 — Rivet (Can be purchased locally) 101 610118 Spark Plug Cover 290 30705 Fuel Line 103 651007 Screw, 1/0-1 Fly 24 x 15/16" 292 26460 Fuel Line Clamp 104 36721 Cylinder Head Gasket 300 36675 Fuel Tank (Incl. 292 & 301) 105 3671 Cylinder Head 301 36246 Fuel Cap 107 36547 Exhaust Valve (Std.) (Incl. 151) 305 36877 Oil Fill Tube Clip 116 29315C Inlake Valve (Std.) (Incl. 151) 305 36877 Oil Fill Tube Clip 117 130 650912 Screw, 5/16-18 x 1-1/2" 327 35392 Starter Plug 130 650912 Screw, 5/16-18 x 1-1/2" 327 35392 Starter Plug 131 3654 Residency Spark Plug (RNAC) 341 36644 Fuel Tank Bracket (Lower) 142 36524 Rocker Arm Sud 360 460025 Screw, 1/4-20 x 5/8" 153 36630 Rocker Arm Sud 360 640025 Screw, 1/4-20 x 5/8" 154 36630 Rocker Arm Cover Gasket 160 36630 Rocker Arm Sud 36678 Rocker Arm Sud 36678 Rocker Arm Sud 36678 Roc						, , , , , , , , , , , , , , , , , , ,			
72 27642 Oil Drain Piug 251 650886 Wing Nut 5287 75 27887 Oil Seal 252 650921 Screw, 10-32 x 1/2" Compression Release Weight 253 36701 Compression Release Weight 254 36702 Compression Release Spring 260 30574A Governor Spool 261 651008 Screw, 1/4-20 x 31/64" Screw, 1/4-20 x 1-1/4" 261 4 650108 Screw, 1/4-20 x 31/64" Screw, 1/4-20 x 1-1/4" 261 4 650108 Screw, 1/4-20 x 31/64" Screw, 1/4-20 x 1-1/4" 261 4 650108 Screw, 1/4-20 x 31/64" Screw, 1/4-20 x 31/64 Screw, 1/4-20 x 31/64" S									
Total Composition   Tota									
80   30574A   Governor Shaft   253   35701   Compression Release Weight									
81 30590A Washer									
82 30591 Governor Gear AssÖy (Incl. 81) 260 36992 Blower Housing 83 36057 Governor Spool 261 65100B Screw, 1/4-20 x 31/64" 85 65048B Screw, 1/4-20 x 1-1/4" 261 A 650821 Screw, 10-20 x 11/2" 89 610961 Flywheel Key 262 65100B Screw, 1/4-20 x 31/64" 90 611205 Flywheel 275 36759 Muffler 91 611205 Flywheel 275 36759 Muffler 92 650815 Belleville Washer 277 65098B Screw, 1/4-20 x 2-9/32" 93 650816 Flywheel Nut 285 35995B Starter Cup 101 34443B Solid State Ignition 287 —— Rivet (Can be purchased locally) 101 610118 Spark Plug Cover 290 30705 Fuel Line 103 651007 Screw, Torx T-15, 10-24 x 15/16" 110 36054 Ground Wire 289 650665 Screw, 1/4-15 x 3/4" 119 36719 'Cylinder Head Gasket 300 36875 Fuel Tank (Incl. 292 & 301) 120 36721 Cylinder Head 301 36246 Fuel Cap 125 36471 Exhaust Valve (Sld.) (Incl. 151) 305 36875 Fuel Tank (Incl. 292 & 301) 126 29314C Intake Valve (Sld.) (Incl. 151) 305 36877 Oil Fill Tube Cip 110 110 460118 Screw, 5/16-18 x 1-1/2" 325 35995 Starter Plug 126 29315C Intake Valve (1/32" OS) (Incl. 151) 306 36878 Dipstick 151) Screw, 5/16-18 x 1-1/2" 327 35392 Starter Plug 130 650912 Screw, 5/16-18 x 2-41/64" 340 36876 Fuel Tank Bracket (Lower) 151 31673 Valve Spring Cap 342A 651010 Screw, 1/4-20 x 5/8" 152 36699 Push Rod Guide 370A 36899 Fuel Tank Bracket (Lower) 153 36629 Push Rod Guide 370A 36691 Rocker Arm Stud 600 651013 Screw, 1/4-20 x 5/8" 158 36630 Rocker Arm Cover Gasket 161 651012 Stud 600 651013 Screw, 1/4-20 x 1/8" 152 36631 Intake Plpe Gasket 170 Garbarter Tube 900 —— Replacement Engine - None Replacement Engine could have been built with 590748 starter (Incl. 205, 210 & 211) 100 65093 Trimble Link 100 65093 Trimble Link 100 65093 Trimble Link 100 65094 Trimble Link 100 65095 Trimble Link 100 65095 Trimble Link 100 65096 Trimble Link 100 65096 Trimble Link 100 65096 Trimble Link 100 65097 Trimble Link 100 65097 Trimble Link 100 65091 Trimble Link 100 65099 Trimble Link 100 65099 Trimble Link 1									
83   36057   Governor Spool   261   651008   Screw, 1/4-20 x 31/64"   86   650848   Screw, 1/4-20 x 1-1/4"   261A   650821   Screw, 10-32 x 1/2"   262   651008   Screw, 10-32 x 1/2"   262   651008   Screw, 10-420 x 31/64"   262   2636015   Bileville Washer   277   650988   Screw, 1/4-20 x 2-9/32"   2636015   Bileville Washer   278   359858   Starter Cup   260   30705   Fuel Line   267   Fuel Line						Compression Helease Spring			
Section									
89   610961   Flywheel Key   262   651008   Screw, 1/4-20 x 31/64"     90   611205   Flywheel   Selleville Washer   277   650988   Screw, 1/4-20 x 2-9/32"     93   650815   Belleville Washer   277   650988   Screw, 1/4-20 x 2-9/32"     93   650816   Flywheel Nut   285   35985B   Starter Cup     100   34443B   Sodid State Ignition   287     Rivet (Can be purchased locally)     101   610118   Spark Plug Cover   280   30705   Fuel Line Clamp     103   651007   Screw, forx T-15, 10-24 x 15/16"   292   26460   Fuel Line Clamp     103   651017   Screw, forx T-15, 10-24 x 15/16"   292   26460   Fuel Line Clamp     119   36719   Cylinder Head Gasket   300   36875   Fuel Tank (Incl. 292 & 301)     120   36721   Cylinder Head Gasket   301   36246   Fuel Cap     125   36471   Exhaust Valve (Sid.) (Incl. 151)   305   36877   Oil Fill Tube     126   29314C   Intake Valve (Sid.) (Incl. 151)   308   37079   Fill Tube Clip     126   29315C   Intake Valve (Sid.) (Incl. 151)   308   37079   Fill Tube Clip     130   650912   Screw, 5/16-18 x 1-1/2"   327   35392   Starter Plug     130   465099   Screw, 5/16-18 x 2-41/64"   340   36876   Fuel Tank Bracket (Upper)     130   36599   Screw, 5/16-18 x 2-41/64"   340   36876   Fuel Tank Bracket (Upper)     151   31673   Valve Spring Cap   342   651010   Screw, 1/4-20 x 5/8"     153   36649   Push Rod Gulde   370A   36281   Lubrication Decal     154   650914   Nut, 1/4-28   400   36720   Gasket   Screw, 1/4-20 x 5/8"     157   36630A   Rocker Arm Cover Gasket   416   36085   Spark Arrestor Kit (Incl. 417) (Optional)     161   651012   Stud   600   651013   Washer     Replacement Engine - None     185   36631   Intake Pipe   Gasket   Intake Pipe   Intake Pipe						_			
90 611205 Flywheel 275 36759 Mulfiller 92 650815 Belleville Washer 277 650998 Screw, 1/4-20 x 2-9/32" 93 650816 Flywheel Nut 265 35985B Starter Cup 100 34443B Solid State Ignition 287 — Rivet (Can be purchased locally) 101 610118 Spark Plug Cover 290 30705 Fuel Line 103 651007 Screw, 1715, 10-24 x 15/16" 292 28460 Fuel Line Clamp 110 36054 Ground Wire 298 650665 Screw, 1/4-15 x 3/4" 119 36719 Cylinder Head Gasket 300 36875 Fuel Tank (Incl. 292 & 301) 120 36721 Cylinder Head Gasket 301 36246 Fuel Cap 28 301) 125 36471 Exhaust Valve (Std.) (Incl. 151) 305 36877 Oil Fill Tube Cip 125 36472 Exhaust Valve (Std.) (Incl. 151) 305 36877 Oil Fill Tube Cip 126 29314C Intake Valve (Std.) (Incl. 151) 308 37079 Fill Tube Cip 1510 305 36872 Screw, 5/16-18 x 1-1/2" 327 35392 Starter Plug 1300 650912 Screw, 5/16-18 x 1-1/2" 327 35392 Starter Plug 1300 650999 Screw, 5/16-18 x 2-41/64" 340 36876 Fuel Tank Bracket (Upper) 151 31673 Valve Spring 342 651010 Screw, 1/4-20 x 7/8" 151 31673 Valve Spring Cap 342 650738 Screw, 1/4-20 x 7/8" 153 36649 Push Rod Gulde 370A 36261 Lubrication Decal 156 36501 Rocker Arm 390 590736 Few More Spring 151 36629 Push Rod Gulde 370A 36261 Lubrication Decal 151 Stud 660 551013 Screw, 1/4-20 x 5/8" Spark Arrestor Kit (Incl. 417) (Optional) Screw, 1/4-20 x 5/8" Spark Arrestor Kit (Incl. 417) (Optional) Screw, 1/4-20 x 1/8" Carburetor (Incl. 184) Reaker (Incl. 205, 210 & 211) Terminal 100 S6320 Rocker Arm Cover Gasket 416 36085 Spark Arrestor Kit (Incl. 417) (Optional) Screw, 1/4-20 x 1/8" Carburetor To Intake Pipe 36736 Control Bracket (Incl. 206, 210 & 211) Terminal 200 36736 Control Bracket (Incl. 206, 210 & 211) Terminal 200 36736 Control Bracket (Incl. 206, 210 & 211) Terminal 200 36736 Control Bracket (Incl. 206, 210 & 211) Terminal 200 36632 Throttle Link									
92 650815 Belleville Washer 277 650988 Screw, 1/4-20 x 2-9/32" 93 650816 Flywheel Nut 285 35998B Starter Cup 100 34443B Solid State Ignition 287 — Rivet (Can be purchased locally) 101 610118 Spark Plug Cover 290 30705 Fuel Line 103 651007 Screw, Torx T-15, 10-24 x 15/16" 292 26460 Fuel Line Clamp 110 38054 Ground Wire 298 650655 Screw, 1/4-15 x 3/4" 119 36719 *Cylinder Head Gasket 300 36875 Fuel Tank (Incl. 292 & 301) 120 36721 Cylinder Head Gasket 301 36246 Fuel Cap 125 36471 Exhaust Valve (Std.) (Incl. 151) 305 36877 Oil Fill Tube 126 29314C Intake Valve (Std.) (Incl. 151) 308 37079 Fill Tube Clip 126 29315C Intake Valve (Std.) (Incl. 151) 308 37079 Fill Tube Clip 130 650912 Screw, 5/16-18 x 1-1/2" 327 35392 Starter Plug 130 650999 Screw, 5/16-18 x 2-41/64" 340 36876 Fuel Tank Bracket (Lower) 131 34645 Resistor Spark Plug (RN4C) 341 36644 Fuel Tank Bracket (Lower) 151 31673 Valve Spring Cap 342 650103 Screw, 1/4-20 x 7/8" 151 31673 Valve Spring Cap 342A 650738 Screw, 1/4-20 x 7/8" 151 31673 Valve Spring Cap 342A 650738 Screw, 1/4-20 x 7/8" 151 36629 Push Rod Guide 370A 36281 Lubrication Decal 152 36624 Rocker Arm Stud 380 640025 Carburetor (Incl. 184) 155 36629 Push Rod 156 36629 Rocker Arm Cover Gasket 416 36085 Spark Arrestor Kit (Incl. 417) (Optional) 151 365085 Rocker Arm Cover Gasket 51012 Stud 600 651013 Washer 152 36631 Rocker Arm Cover Gasket 416 36085 Spark Arrestor Kit (Incl. 417) (Optional) 154 56095 Screw, 1/4-20 x 31/64" 417 650760 Screw, 8-32 x 3/79" 157 36632 Nut, 1/4-20 x 1" Over Gasket 416 36085 Spark Arrestor Kit (Incl. 417) (Optional) 152 36630 Rocker Arm Cover Gasket 416 36085 Spark Arrestor Kit (Incl. 417) (Optional) 154 565085 Rocker Arm Cover Gasket 416 36085 Spark Arrestor Kit (Incl. 417) (Optional) 156 36630 Rocker Arm Cover Gasket 416 36085 Spark Arrestor Kit (Incl. 417) (Optional) 158 36630 Rocker Arm Cover Gasket 416 36085 Spark Arrestor Kit (Incl. 417) (Optional) 155 36631 Rocker Arm Cover Gasket 416 36085 Spark Arrestor Kit (Incl. 417) (Optional) 161 651008 Screw, 1/4-20 x 31/64"									
Soc			•			•			
100   34443B									
101						•			
103   651007   Screw, Torx T-15, 10-24 x 15/16"   292   26460   Fuel Line Clamp									
110   36054   Ground Wire   298   650665   Screw, 1/4-15 x 3/4"   119   36719   Cylinder Head Gasket   300   36875   Fuel Tank (Incl. 292 & 301)   2036721   Cylinder Head   301   36246   Fuel Cap   Exhaust Valve (Std.) (Incl. 151)   305   36877   Oil Fill Tube   2036877   Oil Fill Tube   2036877   Oil Fill Tube   2036877   Oil Fill Tube   2036878   Oil Fill Tube   2036878   Oil Fill Tube   20314C   Intake Valve (Std.) (Incl. 151)   310   36878   Dipstick   151)   325   29443   Wire Clip   327   327   328   229443   Wire Clip   327									
119   36719   * Cylinder Head Gasket   300   36875   Fuel Tank (Incl. 292 & 301)									
120   36721									
125   36471						Fuel Tank (Incl. 292 & 301)			
125   36472   Exhaust Valve					36246	Fuel Cap			
(1/32" OS) (Incl. 151) 308 37079 Fill Tube Clip  126 29315C Intake Valve (Std.) (Incl. 151) 310 36878 Dipstick  126 29315C Intake Valve (1/32" OS) (Incl. 1313 34080 Spacer 151)  130 650912 Screw, 5/16-18 x 1-1/2" 327 35392 Starter Plug  130A 650999 Screw, 5/16-18 x 2-41/64" 340 36876 Fuel Tank Bracket (Upper)  135 34645 Resistor Spark Plug (RN4C) 341 36644 Fuel Tank Bracket (Lower)  135 37039 Valve Spring 342 651010 Screw, 1/4-20 x 7/8"  151 31673 Valve Spring Cap 342A 650738 Screw, 1/4-20 x 5/8"  153 36649 Push Rod Guide 370A 36261 Lubrication Decal  154 650913 Rocker Arm Stud 380 640025 Carburetor (Incl. 184)  155 35624A Rocker Arm 390 590736 Rewind Starter  157 650914 Nut, 1/4-28 400 36720 Gasket Set  158 36629 Push Rod (Incl. Items Marked * in Notes)  159 36526 Rocker Arm Cover Gasket  160 36630A Rocker Arm Cover  161 651008 Screw, 1/4-20 x 31/64" 417 650760 Screw, 8-32 x 3/8"  161A 651012 Stud 600 651013 Washer  173 36675A Breather Tube 900 — Replacement Engine - None  178 650852 Nut, 1/4-20  179 36631 Intake Pipe Gasket (Incl. 26, 210 & 211)  186 36711 Governor Link Starter.  NOTE: All component dimensions given in U.S. inches  1 inch = 25.4 mm i					36877				
126   29314C	125	36472			35499	ÒOÓ Ring			
126   29315C					37079	Fill Tube Clip			
151   325 29443   Wire Clip			Intake Valve (Std.) (Incl. 151)		36878	Dipstick			
130   650912   Screw, 5/16-18 x 1-1/2"   327   35392   Starter Plug     130A   650999   Screw, 5/16-18 x 2-41/64"   340   36876   Fuel Tank Bracket (Upper)     135   34645   Resistor Spark Plug (RN4C)   341   36644   Fuel Tank Bracket (Lower)     150   37039   Valve Spring   342   651010   Screw, 1/4-20 x 7/8"     151   31673   Valve Spring Cap   342A   650738   Screw, 1/4-20 x 5/8"     153   36649   Push Rod Guide   370A   36261   Lubrication Decal     154   650913   Rocker Arm Stud   380   640025   Carburetor (Incl. 184)     155   35624A   Rocker Arm   390   590736   Rewind Starter     157   650914   Nut, 1/4-28   400   36720   Gasket Set     158   36629   Push Rod   400   36720   Gasket Set     160   36630A   Rocker Arm Cover Gasket   416   36085   Spark Arrestor Kit     161   651008   Screw, 1/4-20 x 31/64"   417   650760   Screw, 8-32 x 3/8"     161A   651012   Stud   600   651013   Washer     173   36675A   Breather Tube   900   — Replacement Engine - None     178   650852   Nut, 1/4-20 x 1"   order from 71-999     184   26756   Carburetor To Intake Pipe   Gasket   — RPM Low 1650 to 1950     185   36631   Intake Pipe   Gasket   NOTE: All component dimensions given in U.S. inches     186   36711   Governor Link   Starter.     200   36736   Control Bracket   (Incl. 206, 210 & 211)   Terminal     207   36632   Throttle Link   Throt	126	29315C		313	34080	Spacer			
130A   650999   Screw, 5/16-18 x 2-41/64"   340   36876	120	650040			29443	Wire Clip			
135   34645   Resistor Spark Plug (RN4C)   341   36644   Fuel Tank Bracket (Lower)					35392	Starter Plug			
150   37039   Valve Spring   342   651010   Screw, 1/4-20 x 7/8"     151   31673   Valve Spring Cap   342   650738   Screw, 1/4-20 x 5/8"     153   36649   Push Rod Guide   370A   36261   Lubrication Decal     154   650913   Rocker Arm Stud   380   640025   Carburetor (Incl. 184)     155   35624A   Rocker Arm   390   590736   Rewind Starter     157   650914   Nut, 1/4-28   400   36720   Gasket Set (Incl. Items Marked * in Notes)     158   36629   Push Rod   (Incl. Items Marked * in Notes)     159   35626   Rocker Arm Cover Gasket   416   36085   Spark Arrestor Kit (Incl. 417) (Optional)     161   651008   Screw, 1/4-20 x 31/64"   417   650760   Screw, 8-32 x 3/8"     161A   651012   Stud   600   651013   Washer     173   36675A   Breather Tube   900   — Replacement Engine - None     178   650852   Nut, 1/4-20   900   — Replacement Engine - None     179   36635   Screw, 1/4-20 x 1"   Order from 71-999     184   26756   Carburetor To Intake Pipe   Gasket     185   36631   Intake Pipe   NOTE: This engine could have been built with 590748     186   36711   Governor Link   Starter     200   36736   Control Bracket (Incl. 206, 210 & 211)   Teminal     207   36632   Throttle Link   Th					36876	Fuel Tank Bracket (Upper)			
151   31673   Valve Spring Cap   342   651010   Screw, 1/4-20 x 7/8"   151   31673   Valve Spring Cap   342   650738   Screw, 1/4-20 x 5/8"   153   36649   Push Rod Guide   370A   36261   Lubrication Decal   154   650913   Rocker Arm Stud   380   640025   Carburetor (Incl. 184)   155   35624A   Rocker Arm   390   590736   Rewind Starter   157   650914   Nut, 1/4-28   400   36720   Gasket Set   (Incl. Items Marked * in Notes)   159   35626   Rocker Arm Cover   Gasket   416   36085   Spark Arrestor Kit   (Incl. 417) (Optional)   161   651008   Screw, 1/4-20 x 31/64"   417   650760   Screw, 8-32 x 3/8"   161   651012   Stud   600   651013   Washer   173   36675A   Breather Tube   900   — Replacement Engine - None   178   650852   Nut, 1/4-20   900   — Replacement Engine - None   184   26756   Carburetor To Intake Pipe   Gasket   — RPM Low 1650 to 1950   RPM Low 1650 to 1950   NOTE: This engine could have been built with 590748   starter.   NOTE: All component dimensions given in U.S. inches   1 inch = 25.4 mm   1   1 inch = 25.4 mm   1 i			Hesistor Spark Plug (HN4C)	341	36644				
153 36649 Push Rod Guide 370A 36261 Lubrication Decal 154 650913 Rocker Arm Stud 380 640025 Carburetor (Incl. 184) 155 35624A Rocker Arm 390 590736 Rewind Starter 157 650914 Nut, 1/4-28 400 36720 Gasket Set (Incl. Items Marked * in Notes) 159 35626 Rocker Arm Cover Gasket 416 36085 Spark Arrestor Kit (Incl. 417) (Optional) 161 651008 Screw, 1/4-20 x 31/64" 417 650760 Screw, 8-32 x 3/8" 161A 651012 Stud 600 651013 Washer 178 650852 Nut, 1/4-20 Pound 178 650852 Nut, 1/4-20 Pound 178 650852 Nut, 1/4-20 Pound 178 65756 Screw, 1/4-20 x 1" Replacement Engine - None 184 26756 Carburetor To Intake Pipe Gasket 185 36631 Intake Pipe Gasket (Incl. 206, 210 & 211) Throttle Link 1970 Screw, 1/4-20 & 25.4 mm 1 component dimensions given in U.S. inches 1 inch = 25.4 mm			Valve Spring	342	651010				
154   650913   Rocker Arm Stud   380   640025   Carburetor (Incl. 184)     155   35624A   Rocker Arm   390   590736   Rewind Starter     157   650914   Nut, 1/4-28   400   36720   Gasket Set     158   36629   Push Rod   (Incl. Items Marked * in Notes)     159   35626   * Rocker Arm Cover Gasket   416   36085   Spark Arrestor Kit     160   36630A   Rocker Arm Cover Gasket   417   650760   Screw, 8-32 x 3/8"     161   651012   Stud   600   651013   Washer     173   36675A   Breather Tube   900   — Replacement Engine - None     178   650852   Nut, 1/4-20   900   — Replacement S/B 754293,     182   650451   Screw, 1/4-20 x 1"   order from 71-999     184   26756   * Carburetor To Intake Pipe Gasket   — RPM Low 1650 to 1950     185   36631   Intake Pipe Gasket   NOTE: This engine could have been built with 590748     186   36711   Governor Link   Starter     200   36736   Control Bracket (Incl. 206, 210 & 211)   Tinch = 25.4 mm   Tinch =				342A	650738	Screw, 1/4-20 x 5/8"			
155   35624A   Rocker Arm   390   590736   Rewind Starter   157   650914   Nut, 1/4-28   400   36720   Gasket Set   (Incl. Items Marked * in Notes)   159   35626   Rocker Arm Cover Gasket   416   36085   Spark Arrestor Kit   (Incl. 417) (Optional)   161   651008   Screw, 1/4-20 x 31/64"   417   650760   Screw, 8-32 x 3/8"   161A   651012   Stud   600   651013   Washer   173   36675A   Breather Tube   900   Replacement Engine - None   178   650852   Nut, 1/4-20   900   Replacement S/B 754293, order from 71-999   184   26756   Carburetor To Intake Pipe   Gasket   RPM Low 1650 to 1950   NOTE: This engine could have been built with 590748   Starter.   NOTE: All component dimensions given in U.S. inches   1 inch = 25.4 mm   1 in				370A	36261	Lubrication Decal			
157 650914 Nut, 1/4-28 400 36720 Gasket Set 158 36629 Push Rod (Incl. Items Marked * in Notes) 159 35626 Rocker Arm Cover Gasket 160 36630A Rocker Arm Cover 161 65100B Screw, 1/4-20 x 31/64" 417 650760 Screw, 8-32 x 3/8" 161A 651012 Stud 600 651013 Washer 173 36675A Breather Tube 900 — Replacement Engine - None 178 650852 Nut, 1/4-20 900 — Replacement S/B 754293, 182 650451 Screw, 1/4-20 x 1" order from 71-999 184 26756 Carburetor To Intake Pipe Gasket — RPM High 3450 to 3750 185 36631 Intake Pipe NOTE: This engine could have been built with 590748 186 36711 Governor Link starter. 200 36736 Control Bracket (Incl. 206, 210 & 211) 206 610973 Terminal 207 36632 Throttle Link				380	640025	Carburetor (Incl. 184)			
158   36629				390	590736	Rewind Starter			
159   35626   Rocker Arm Cover Gasket   416   36085   Spark Arrestor Kit				400	36720	Gasket Set			
160   36630A   Rocker Arm Cover   416   36085   Spark Arrestor Kit     161   651008   Screw, 1/4-20 x 31/64"   417   650760   Screw, 8-32 x 3/8"     161   651012   Stud   600   651013   Washer     173   36675A   Breather Tube   900   — Replacement Engine - None     178   650852   Nut, 1/4-20   900   — Replacement S/B 754293,     182   650451   Screw, 1/4-20 x 1"   order from 71-999     184   26756   Carburetor To Intake Pipe   Gasket   — RPM Low 1650 to 1950     185   36631   Intake Pipe   NOTE: This engine could have been built with 590748     186   36711   Governor Link   Starter.     200   36736   Control Bracket   (Incl. 206, 210 & 211)   Terminal     207   36632   Throttle Link   Throttle Link     208   610973   Terminal   Throttle Link   Throttle Link     208   36630   Throttle Link   Throttle Link     209   36630   Throttle Link   Throttle Link     210   36630   Spark Arrestor Kit (Incl. 417) (Optional)     417   650760   Screw, 8-32 x 3/8"     416   36085   Spark Arrestor Kit (Incl. 417) (Optional)     417   650760   Screw, 8-32 x 3/8"     418   36085   Spark Arrestor Kit (Incl. 417) (Optional)     417   650760   Screw, 8-32 x 3/8"     418   36085   Spark Arrestor Kit (Incl. 417) (Optional)     417   650760   Screw, 8-32 x 3/8"     418   418   417   650760   Screw, 8-32 x 3/8"     418   418   418   418   418   418     418   418   418   418   418   418     418   418   418   418   418     418   418   418   418   418     418   418   418   418     418   418   418   418     418   418   418   418     418   418   418     418   418   418   418     418   418   418   418     418   418   418     418   418   418     418   418   418     418   418   418     418   418   418     418   418   418     418   418   418						(Incl. Items Marked * in Notes)			
161   651008   Screw, 1/4-20 x 31/64"   417   650760   Screw, 8-32 x 3/8"     161			Hocker Arm Cover Gasket	416	36085	Spark Arrestor Kit			
161A   651012   Stud   Stud   600   651013   Washer     173   36675A   Breather Tube   900   — Replacement Engine - None     178   650852   Nut, 1/4-20   900   — Replacement S/B 754293,     182   650451   Screw, 1/4-20   x 1"   order from 71-999     184   26756   Carburetor To Intake Pipe   Gasket   — RPM High 3450 to 3750     185   36631   Intake Pipe   NOTE: This engine could have been built with 590748     186   36711   Governor Link   starter.     200   36736   Control Bracket   (Incl. 206, 210 & 211)   Terminal     207   36632   Throttle Link   Throttle Link     417   650760   Screw, 8-32 x 3/8"     417   650760   Screw, 14-20 x 1/"     600   651013   Washer     600									
173   36675A   Breather Tube   900   — Replacement Engine - None   900   — Replacement S/B 754293,   900				417	650760				
178 650852 Nut, 1/4-20 900 — Replacement S/B 754293, order from 71-999 184 26756 Carburetor To Intake Pipe Gasket Pipe Gasket NOTE: This engine could have been built with 590748 starter.  200 36736 Control Bracket (Incl. 206, 210 & 211) 207 36632 Throttle Link				600	651013				
178   650852   Nuft, 1/4-20   900   — Replacement S/B 754293, order from 71-999   184   26756   Carburetor To Intake Pipe Gasket   — RPM High 3450 to 3750   RPM Low 1650 to 1950   NOTE: This engine could have been built with 590748   Starter. NOTE: All component dimensions given in U.S. inches   1 inch = 25.4 mm   1   1   1   1   1   1   1   1   1				900		Replacement Engine - None			
182   65045   Screw, 1/4-20 x 1"   order from 71-999     184   26756   Carburetor To Intake Pipe Gasket				900					
Carburetor To Intake Pipe   Gasket   RPM High 3450 to 3750									
185   36631   Intake Pipe   NOTE: This engine could have been built with 590748     186   36711   Governor Link   Starter.     200   36736   Control Bracket   (Incl. 206, 210 & 211)     206   610973   Terminal     207   36632   Throttle Link   Throttle Link	184	26756	<ul> <li>Carburetor To Intake Pipe</li> </ul>		Situate access				
186 36711 Governor Link 200 36736 Control Bracket (Incl. 206, 210 & 211) 206 610973 Terminal 207 36632 Throttle Link  NOTE: This engine could have been built with 590748 starter. NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm  1 inch = 25.4 mm	405	00004			-				
200 36736 Control Bracket (Incl. 206, 210 & 211) 206 610973 Terminal Starter.  207 36632 Throttle Link Starter.  NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm 1 ;				NOTE:	This engine				
(Incl. 206, 210 & 211)  206 610973 Terminal  207 36632 Throttle Link									
206 610973 Terminal 1 inch = 25.4 mm 1 ; 207 36632 Throttle Link	200	35/35		NOTE:	All compone	nt dimensions given in U.S. inches			
207 36632 Throttle Link	000	040070		1 inch =	= 25.4 mm 🝈	to the second se			
					•	•			
209 000821 Screw, 10-32 x 1/2"			_						
	209	050821	Screw, 10-32 x 1/2"						

#### **TILLER - - MODEL NUMBER 917.293401**

#### ENGINE, TECUMSEH - - MODEL NUMBER 143.986001



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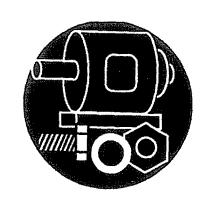
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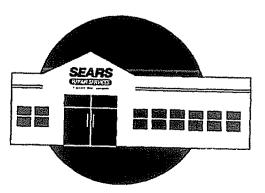
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