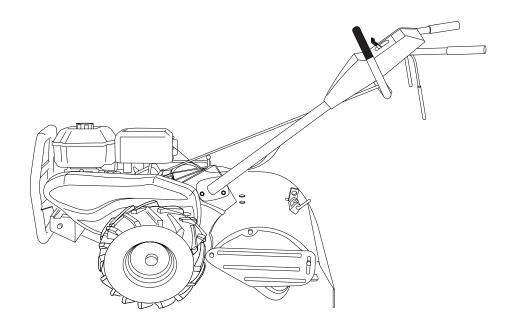
# Poulan PRO



**OWNER'S MANUAL** 

**MODEL:** 

PRRT65D

REAR TINE TILLER

**WARNING:** 

Read this Owner's Manual and follow all Warnings and Safety Instructions. Failure to do so can result in serious injury.

ALWAYS WEAR EYE PROTECTION DURING OPERATION

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# **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
- Always refer to the operator's guide instructions for important details if the tiller is to be stored for an extended period.

#### - IMPORTANT -

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

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

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



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



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





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

### PRODUCT SPECIFICATIONS

Gasolina Capacity:	3 Quarts (2.8L) Unleaded Regular
Oil (API-SF-SJ):	SAE 30 (Above 40°F/4°C)
(Capacity: 20 oz./0.6L)	SAE 5W-30 (Below 40°F/4°C)
Spark Plug :	Champion
(Gap: .030"/0.76mm)	RC12YC

CONGRATULATIONS on your purchase of a new 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 service center. 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".

#### **CUSTOMER RESPONSIBILITIES**

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tiller.
- Follow instructions under "Maintenance" 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 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, a spark arrester 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 authorized service center/ DEPARTMENT for spark arrester.

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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) Tire pressure gauge
- (1) Pair of pliers
- (1) 9/16" wrench

### **OPERATOR'S POSITION (See Fig. 1)**

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

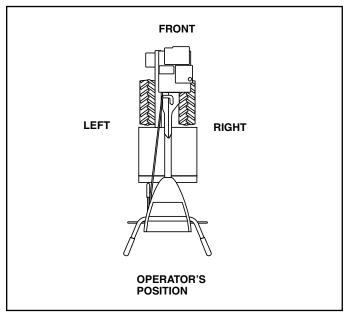
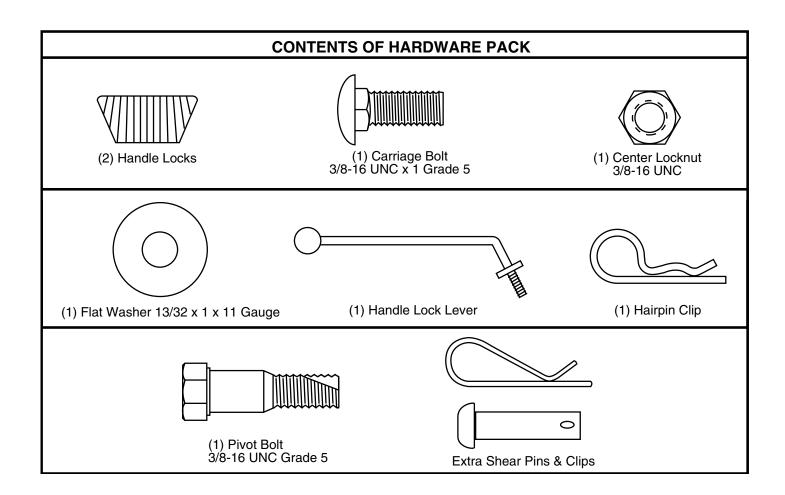


FIG. 1



### **ASSEMBLY**

#### **UNPACKING CARTON (See Fig. 2)**



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

**IMPORTANT:** WHEN UNPACKING AND ASSEMBLING TILLER, BE CAREFUL NOT TO STRETCH OR KINK CABLES.

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

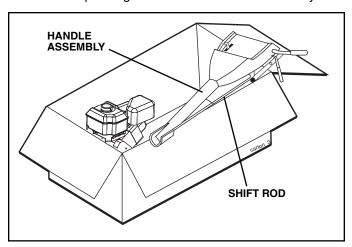


FIG. 2

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

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

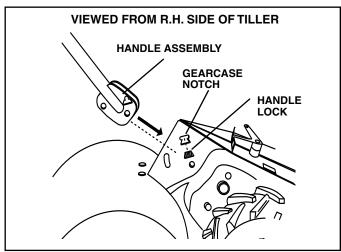


FIG. 3

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

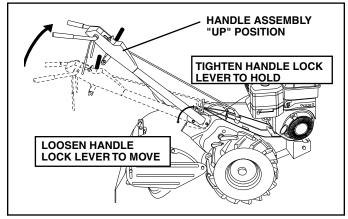


FIG. 4

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

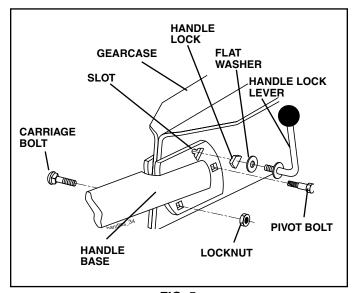


FIG. 5

# **ASSEMBLY**

#### ATTACH CLUTCH CABLE (See Fig. 6)

 Hook end of clutch cable through hole in control bar bracket.

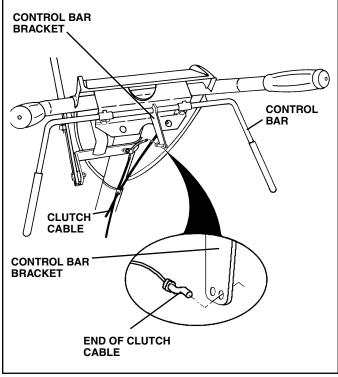


FIG. 6

#### CONNECT SHIFT ROD (See Fig. 7)

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

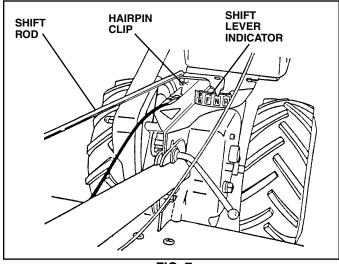


FIG. 7

#### REMOVE TILLER FROM CRATE

- Make sure shift lever indicator is in "N" position (See Fig. 7)
- 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 (1.4 kg/cm²).

#### **HANDLE HEIGHT**

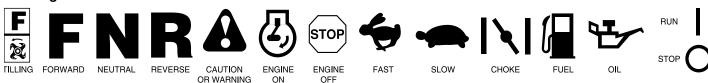
 Handle height may be adjusted to better suit operator. (See "TO ADJUST HANDLE HEIGHT" in the Service and Adjustments section of this manual).

#### **KNOW YOUR TILLER**

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

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

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



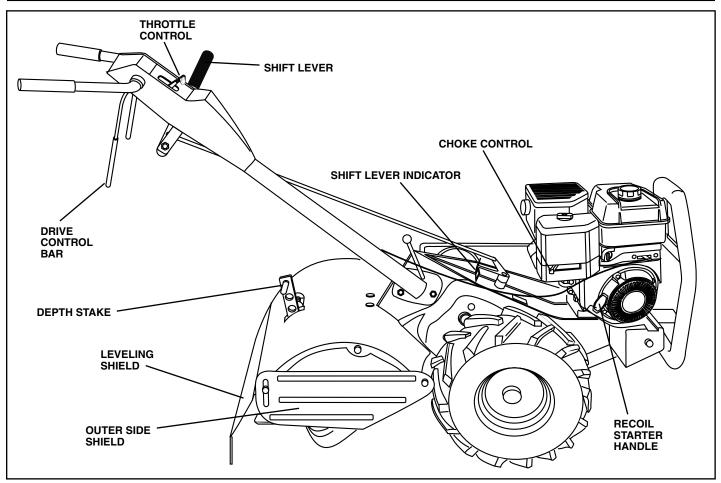


FIG. 8

#### **MEETS ANSI SAFETY REQUIREMENTS**

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

**CHOKE CONTROL** - Used when starting a cold engine. **DEPTH STAKE** - Controls depth at which tiller will dig. **DRIVE CONTROL BAR** - Used to engage tines. **LEVELING SHIELD** - Levels tilled soil.

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

**RECOIL STARTER HANDLE** - Used to start the engine. SHIFT LEVER - Used to shift transmission gears. SHIFT LEVER INDICATOR - Shows which gear the transmission is in.

THROTTLE CONTROL - Controls engine speed.



The operation of any tiller can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before starting your tiller and while tilling. We recommend a wide vision safety mask for 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.
- · Never use choke to stop engine.

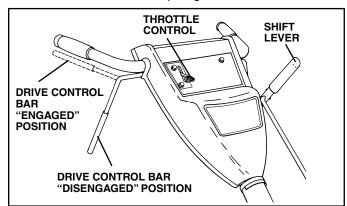


FIG. 9

#### **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 (
   \( \overline{\pi} \)) 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.

#### HARD TO SHIFT GEARS

 Briefly engage drive control bar and release or rock tiller forward and backward until are able to shift gears.

#### **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.

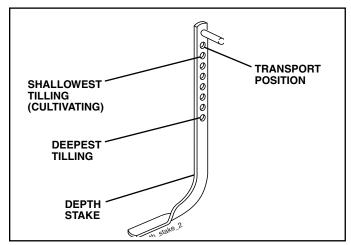


FIG. 10

### 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 tilling position.
- Hold the drive control bar against the handle to start tilling movement. Tines and wheels will both turn.
- Move throttle control to "FAST" position for deep tilling.
  To cultivate, throttle control can be set at any desired
  speed, depending on how fast or slow you wish to
  cultivate.

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

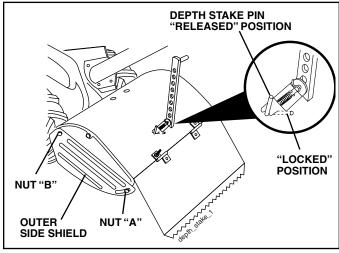


FIG. 11

#### **TURNING**

- Release the drive control bar.
- Move throttle control to "SLOW" position.
- Place shift lever indicator in "F" (forward) position. Tines will not turn.
- Lift handle to raise tines out of ground.

- Swing the handle in the opposite direction you wish to turn, being careful to keep feet and legs away from tines
- When you have completed your turn-around, release the drive control bar and lower handle. Place shift lever in 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-SJ.
- Reinstall engine oil cap and tighten.
- For cold weather operation you should change oil for easier starting (See oil viscosity chart in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

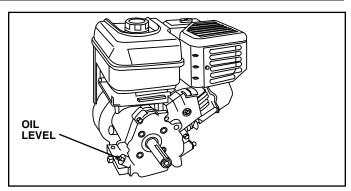


FIG. 12

#### ADD GASOLINE

Fill fuel tank to bottom of filler neck. Do not overfill.
 Use fresh, clean, regular unleaded gasoline with a
 minimum of 87 octane. (Use of leaded gasoline will
 increase carbon and lead oxide deposits and reduce
 valve life). Do not mix oil with gasoline. Purchase fuel
 in quantities that can be used within 30 days to assure
 fuel freshness.



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.

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

**IMPORTANT:** WHEN OPERATING IN TEMPERATURES BELOW32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

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

### TO START ENGINE (See Fig. 13)



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.
- Turn fuel shut-off valve 1/4 turn to open position.
- Move choke control to 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.
- 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 (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.

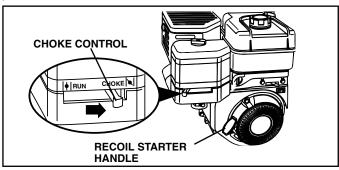


FIG. 13

#### **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" (10-15 cm). 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.

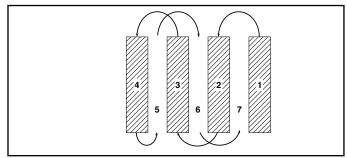


FIG. 14

#### **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 (See Fig. 15).

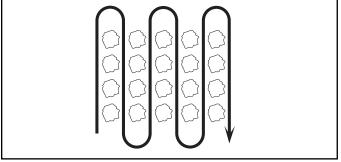


FIG. 15

#### 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.

# **MAINTENANCE**

MAINTENANCE SCHEDULE		EN ENCE	357 15 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14 (13) 14	1 (5 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18) (1 / 1/18	24 JOHNS 14	SUNO! 54	1 NO.55	/					
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Check Engine Oil Level	<b>/</b>	1											
Change Engine Oil			1,2										
Oil Pivot Points		<b>'</b>											
Inspect Spark Arrester / Muffler				>									
Inspect Air Screen	<b>/</b>												
Clean or Replace Air Cleaner Cartridge				<b>1</b> 2									
Clean Engine Cylinder Fins				>									
Replace Spark Plug				/									
RH Gear Case Grease Fitting (1oz.)					/								

- 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.

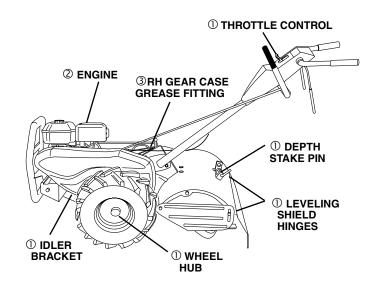
#### **BEFORE EACH USE**

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

#### LUBRICATION

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

### **LUBRICATION CHART**



- ①SAE 30 OR 10W-30 MOTOR OIL
- **©REFER TO MAINTENANCE "ENGINE" SECTION**
- ③EP #1 GREASE

### **MAINTENANCE**



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

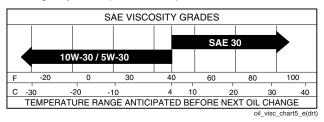
Prevent fires! Keep the engine free of grass, leaves, spilled oil, or fuel. Remove fuel from tank before tipping unit for maintenance. Clean muffler area of all grass, dirt, and debris.

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-SJ. Select the oil's SAE viscosity grade according to your expected temperature.



**FIG. 16** 

**NOTE:** Although multi-viscosity oils (5W-30, 10W-30, etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 40°F (4°C). Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

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

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

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

Determine temperature range expected before oil change. All oil must meet API service classification SF-SJ.

- 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.

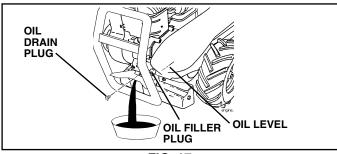


FIG. 17

### AIR FILTER (See Fig. 18)

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

Service air cleaner more often under dusty conditions.

Remove cover screw and cover.

#### TO SERVICE PRE-CLEANER

- Remove foam pre-cleaner from air cleaner cover.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- If very dirty or damaged, replace pre-cleaner.
- Reinstall pre-cleaner into air cleaner cover.
- Reinstall cover and secure screw.

#### TO SERVICE CARTRIDGE

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

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

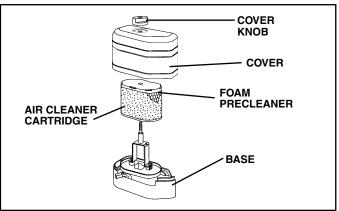


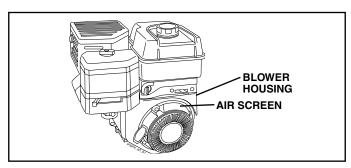
FIG. 18

# **MAINTENANCE**

#### **COOLING SYSTEM (See Fig. 19)**

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

- Clean air screen frequently using a stiff-bristledbrush.
- Remove blower housing and clean as necessary.
- Keep cylinder fins free of dirt and chaff.



**FIG. 19** 

#### **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**

Once a season, lubricate the right hand side gear case grease fitting with 1 oz. of EP #1 Grease.

#### **CLEANING**

Do not clean your tiller when the engine and transmission are hot. We do not recommend using pressurized water (garden hose, etc.) to clean your unit unless the gasket area around the transmission and the engine muffler, air filter and carburetor are covered to keep water out. Water in engine will shorten the useful life of your tiller.

- 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.



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

#### **TILLER**

### TO ADJUST HANDLE HEIGHT (See Fig. 20)

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

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

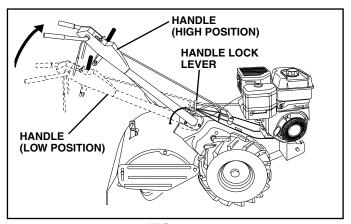


FIG. 20

#### **TIRE CARE**



CAUTION: When mounting tires, unless beads are seated, overinflation can cause an explosion.

- Maintain 20 PSI (1.4 kg/cm²) of tire pressure. If tire pressures are not equal, tiller will pull to one side.
- Keep tires free of gasoline or oil which can damage rubber.

### TO REMOVE WHEEL (See Fig. 21)

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

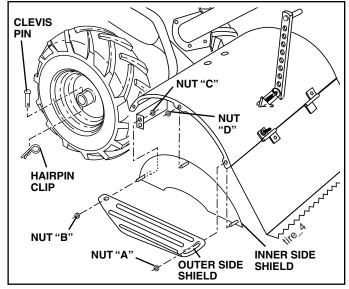


FIG. 21

#### TO REMOVE BELT GUARD (See Fig. 22)

**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) screws from side of belt guard.
- Remove hex nut and washer from bottom of belt guard (located behind wheel).
- Pull belt guard out and away from unit.
- Replace belt guard by reversing above procedure.

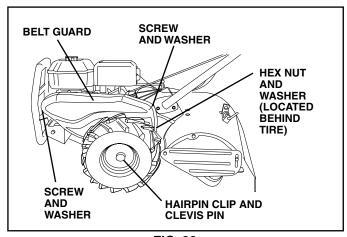


FIG. 22

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

- Remove belt guard as described in "TO REMOVE BELT GUARD".
- Remove old belt by slipping off 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.
- · Check belt adjustment as described below.
- Replace belt guard.
- Reposition wheel and replace clevis pin and hairpin clip.

# GROUND DRIVE BELT ADJUSTMENT (See Fig. 23)

For proper belt tension, the extension spring should have about 5/8 inch (16 mm) 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 (16 mm) stretch is obtained while the drive control bar is engaged.
- Tighten cable clip screw securely.

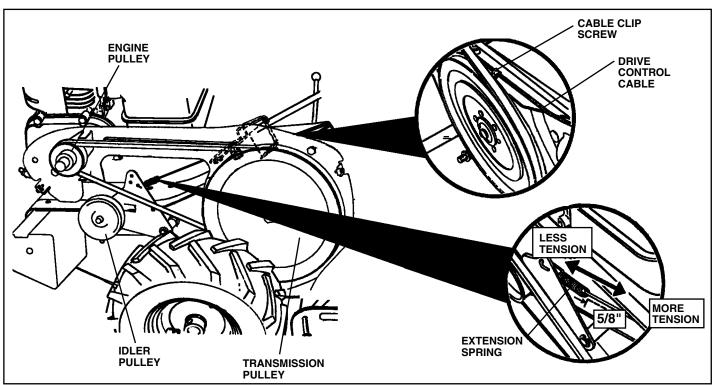


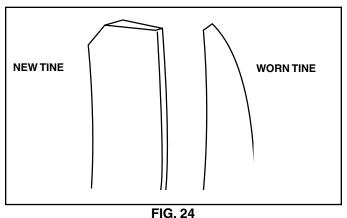
FIG. 23

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



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

A badly worn tine causes your tiller to work harder and dig more shallow. Most important, worn tines cannot chop and shred organic matter as effectively nor bury it as deeply as good tines. A tine this worn needs to be replaced.



- 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 (9 cm), they should be replaced or straightened as necessary.
- New tines should be assembled as shown in Fig. 26. Sharpened tine edges will rotate rearward from above.

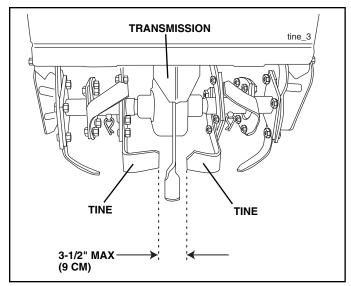


FIG. 25

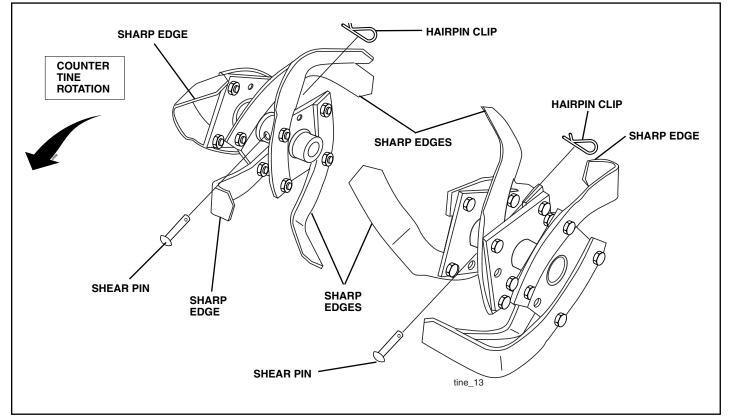


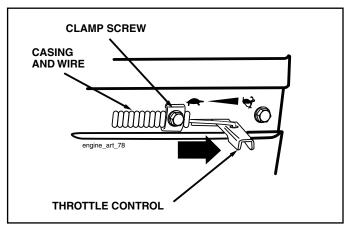
FIG. 26

#### **ENGINE**

# TO ADJUST THROTTLE CONTROL CABLE (See Fig. 27)

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

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



**FIG. 27** 

#### TO ADJUST CARBURETOR

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

IMPORTANT: NEVERTAMPERWITHTHEENGINE 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, CONTACTYOUR NEAREST AUTHORIZED SERVICE CENTER/DEPARTMENT, WHICH HAS THE PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

### **STORAGE**

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



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

#### **TILLER**

- Clean entire tiller (See "CLEANING" in the Maintenance 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 Maintenance 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.

- Empty the fuel tank by starting 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.
- Use fresh fuel next season.

**NOTE:** Fuel stablizer 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 stablizer container. Run engine at least 10 minutes after adding stablizer to allow the stabilizer to reach the carburetor. Do not empty 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 Maintenance 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.

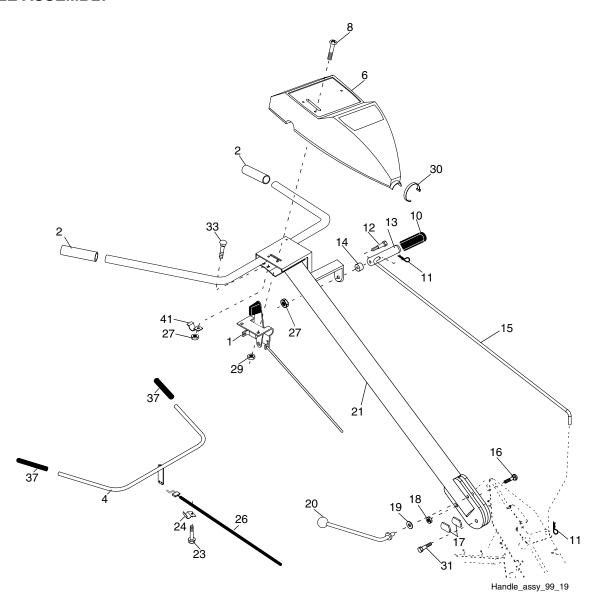
**IMPORTANT:** NEVER COVER TILLER WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

# **TROUBLESHOOTING POINTS**

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

# **TILLER - - MODEL NUMBER PRRT65D**

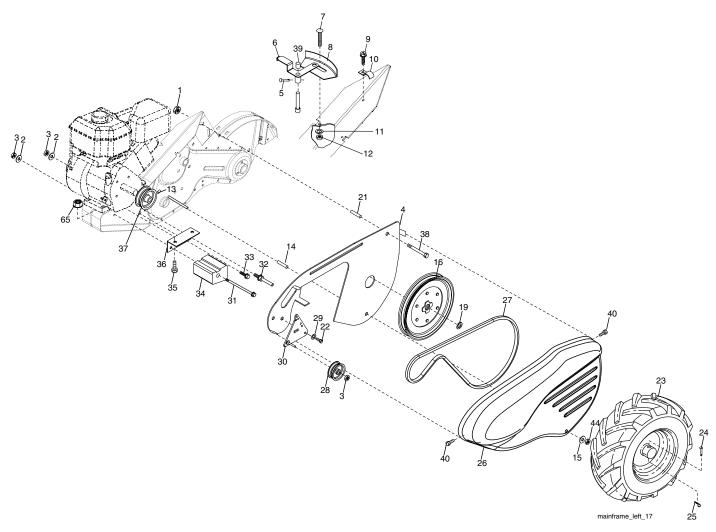
### **HANDLE ASSEMBLY**



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	180634	Control, Throttle	21	180517X428	Handle
2	9266R	Grip, Handle	23	86777	Screw, Hex Washer Hd. Slotted
4	159228	Bar Assembly, Control			#10-24 x 1/2
6	180678	Panel, Control	24	9484R	Clip
8	71191008	Screw, Phd. #10-24	26	159231	Cable, Clutch
10	8206H	Grip, Handle	27	73900400	Nut Hex Flange 1/4-20 unc
11	4497H	Clip, Hairpin	29	73731000	Nut, Keps #10-24 unc
12	81328	Bolt, Shoulder	30	104164X	Tie, Cable
13	187497	Handle, Shift	31	150696	Bolt, Pivot
14	109313X	Grommet, Rubber	33	72140404	Bolt, Carriage 1/4-20 unc x 1/2
15	109337X	Rod, Shift	37	102604X	Grip, Bar, Control
16	72110608	Bolt, Carriage 3/8-16 x 1 Gr. 5	41	102744X	Clamp, Bar, Control
17	109229X	Lock, Handle			
18	73680600	Nut, Crownlock 3/8-16 unc	NOTE	: All compone	ent dimensions given in U.S. inches.
19	19131611	Washer 13/32 x 1 x 11 Ga.	_	1 inch = $25$ .	
20	109228X	Lever, Lock, Handle			

### **TILLER - - MODEL NUMBER PRRT65D**

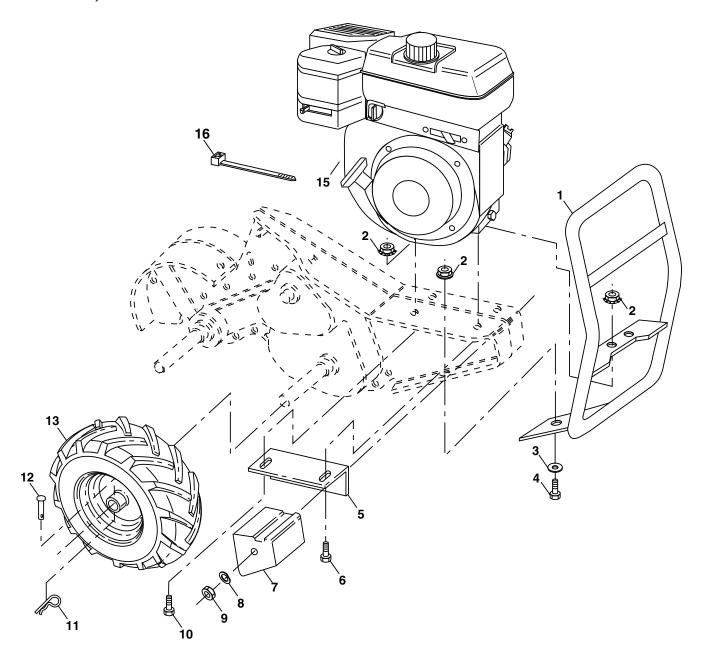
### MAINFRAME, LEFT SIDE



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	73510500	Nut, Keps 5/16-18	24	126875X	Rivet, Drilled
2	10040600	Washer, Lock 3/8	25	4497H	Clip, Hairpin
3	73220600	Nut, Hex 3/8-16	26	165501X013	Guard, Belt
4	170127	Shield, Inner Belt Guard RT	27	132801	Belt, V
5	164329	Screw, Shift Lever	28	104679X	Pulley, Idler
6	110111X	Lever, Shift	29	12000032	Ring, Klip
7	72110404	Bolt, Carriage 1/4-20 x 1/2 Gr. 5	30	159229	Bracket, Idler
8	8700J	Plate, Shift Indicator	31	102384X	Bolt, Hex 5/16-16 x 12
9	86777	Screw, Hex, Washer Head, Slotted	32	102141X	Shaft, Idler Arm
		#10-24 x 1/2	33	74760616	Bolt, Hex 3/8-16 x 1
10	9484R	Clip	34	102383X	Counterweight, L. H.
11	10040400	Washer, Lock 1/4	35	74760528	Bolt, Hex 5/16-18 x 1-3/4
12	73220400	Nut, Hex 1/4-20	36	102331X	Bracket, Reinforcement, L. H.
13	23230506	Screw, Set, Hex 5/16-18 x 3/8	37	130812	Sheave, Engine
14	156117	Spacer, Split 0.327 x 0.42 x 1.220	38	74760544	Bolt, Fin Hex 5/16-18 unc x 2-3/4
15	19111116	Washer 11/32 x 11/16 x 16 Ga.	39	140062	Cap, Plunger Blk
16	145102	Sheave, Transmission	40	170488	Screw Hex Wsh Slt #10-24 x 1/2
19	12000028	Retainer, Ring	44	73800500	Nut Lock Hex w/Ins 5/16-18 unc PL
21	110652X	Spacer, Split 0.327 x 0.42 x 2.09	65	73970500	Nut Lock Hex Flange
22	74770508	Bolt, Fin Hex 5/16-24 UNF x 1/2			
23	5015J	Tire			
	127259X	Rim	NOTE	E: All compone	ent dimensions given in U.S.
	795R	Tire Valve		inches. 1 inc	ch = 25.4 mm

# **TILLER - - MODEL NUMBER PRRT65D**

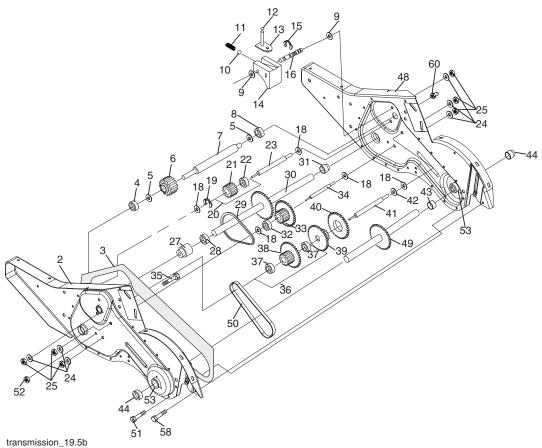
### MAINFRAME, RIGHT SIDE



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10	185190 73970500 19111116 74760512 102332X 74760528 102173X 10040600 73220600 74760524 4497H	Bumper Locknut, Hex, Flange 5/16-18 Washer 11/32 x 11/16 x 16 Ga. Bolt, Hex 5/16-18 x 3/4 Bracket, Reinforcement Bolt, Hex 5/16-18 x 1-3/4 Counter Weight, R.H. Washer, Lock 3/8 Nut, Hex 3/8-16 Bolt, Hex 5/16-18 x 1-1/2 Clip, Hairpin	12 13 15 16 <b>NOTE</b>	126875X 5015J 127259X 795R  7192J E: All compon 1 inch = 25	Rivet, Drilled Tire Rim Tire Valve Engine, Briggs & Stratton Model No. 120302 (Order parts from engine manufacturer) Tie Cable ent dimensions given in U.S.inches.

# **TILLER - - MODEL NUMBER PRRT65D**

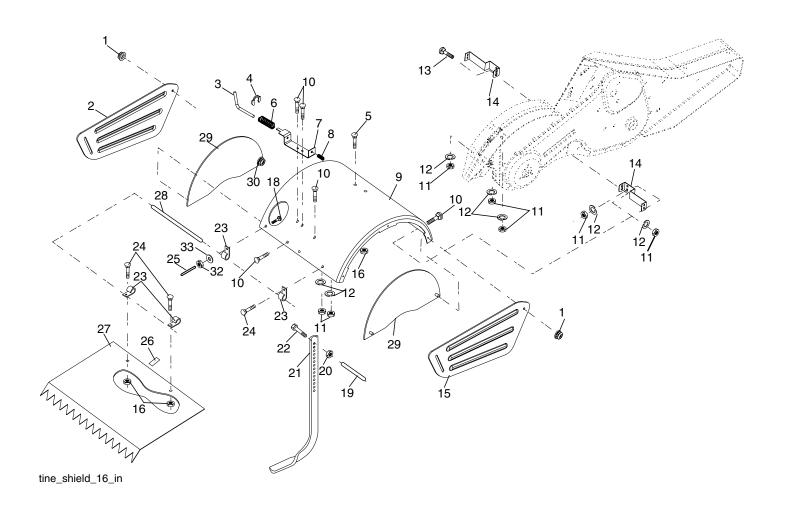
### **TRANSMISSION**



KEY	PART	10.00	KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	188554	Transmission Assembly (Includes	29	102134X	Chain #35-50 Pitch
•	100001	Key Nos. 2-53)	30	150737	Ground Shaft Assembly
2	188482	Gearcase, L.H. w/Bearing (Includes	31	143008	Bearing, Shaft, Ground Drive R.H.
_	100 102	Key No. 4)	32	106388X	Spacer 0.70 x 1.00 x 1.150
3	161963	Gasket, Gearcase	33	102121X	Sprocket and Gear Assembly
4	5020J	Bearing, Needle	34	102112X	Shaft, Reduction (2nd)
5	1370H	Washer, Thrust 5/8 x 1.10 x 1/32	35	102101X	Screw, Whiz, Lock 5/16-18 x 3-1/2
6	137335	Pinion, Input	36	154355	Sprocket Assembly w/Bearing (In-
7	145101	Shaft, Input			cludes Key Nos. 37 and 38)
8	4895H	Bearing, Needle	37	4422J	Bearing, Needle
9	154467	Washer, Seal	38	154356	Sprocket, Tine
10	7392M	Ball, Steel	39	105345X	Gear, Cluster, Red 1st & 2nd
11	100371K	Spring, Shift, Fork	40	105346X	Gear, Reverse
12	106160X	O-Ring	41	8358J	Shaft, Reduction (1st)
13	142145	Asm. Bracket Shift	42	4220R	Washer, Thrust
14	8353J	Fork, Shift	43	106146X	Spacer 1.01 x 1.75 x 0.760
15	12000039	Ring, Klip	44	155236	Seal Asm, Oil
16	154466	Shaft, Shift	48	188485	Gearcase, R.H. w/Bearing (Includes
18	4358J	Washer			Key No. 8)
19	12000040	Ring, Klip	49	132688	Shaft, Tine
20	102114X	Gear, Assembly, Reverse Idler (In-	50	106147X	Chain, Roller #50-50 Pitch
		cludes Key Nos. 21 and 22)	51	17720408	Screw 1/4-20 x 1/2
21	102115X	Gear, Reverse Idler	52	73220500	Nut, Hex 5/16-18
22	6803J	Bearing, Needle	53	165140	Kit, Bearing
23	102111X	Shaft, Reverse Idler	58	179520	Bolt Shoulder
24	10040700	Washer, Lock 7/16	60	183226	Fitting Grease
25	73610700	Nut, Hex 7/16-20		6066J	Grease, Plastilube #1
27	143009	Bearing, Shaft, Ground Drive L.H.	NOT	E: All compor	nent dimensions given in U.S. inches.
28	106390X	Spacer 0.765 x 1.125 x 1.23		1 inch = 2	

# **TILLER - - MODEL NUMBER PRRT65D**

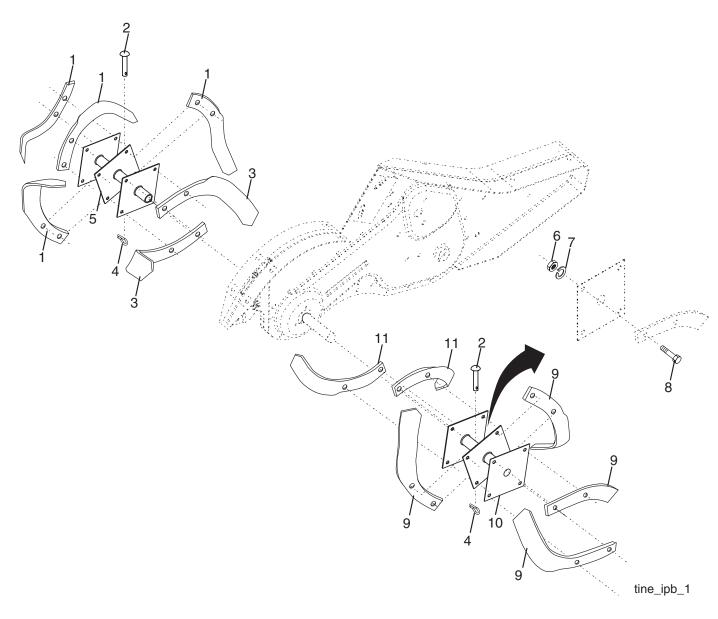
### **TINE SHIELD**



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	73900500	Nut, Lock Hex Flange 5/16-18	19	102701X	Grip
2	161415X428	Shield, Side, Outer L. H.	20	73220600	Nut, Hex 3/8-16
3	8393J	Pin, Stake, Depth	21	102156X	Stake, Depth
4	12000035	Ring, Klip	22	74930632	Bolt, Hex 3/8-16 x 2
5	72140508	Bolt 5/16-18 unc x 1	23	4440J	Hinge
6	8394J	Spring	24	72140404	Bolt, Carriage 1/4-20 x 1/2 Gr. 5
7	8392J	Bracket, Latch	25	6712J	Cap, Vinyl
8	109230X	Spring, Depth Stake	26	109227X	Pad, Idler
9	124289X428	Shield, Tine	27	102695X428	Shield, Leveling
10	180847	Bolt 5/16-18 x 3/4 ZNC	28	120588X	Pin, Hinge
11	73220500	Nut, Hex 5/16-18	29	124309X428	Shield, Šide
12	10040500	Washer, Lock 5/16	30	73970500	Locknut, Flange 5/16-18
13	72110510	Bolt, Carriage 5/16-18 x 1-1/4	32	73220400	Nut Fin Hex 1/4-20 unc
14	124311X	Bracket, Shield Tine	33	10040400	Washer Lock Hvy Helical 1/4
15 16 18	161414X428 73900400 72040410	Shield, Side, Outer R.H. Nut, Hex Flange 1/4-20 unc Bolt, Carriage 1/4-20 x 1-1/4 Gr. 5	NOTE	E: All compone 1 inch = 25	ent dimensions given in U.S. inches.

### **TILLER - - MODEL NUMBER PRRT65D**

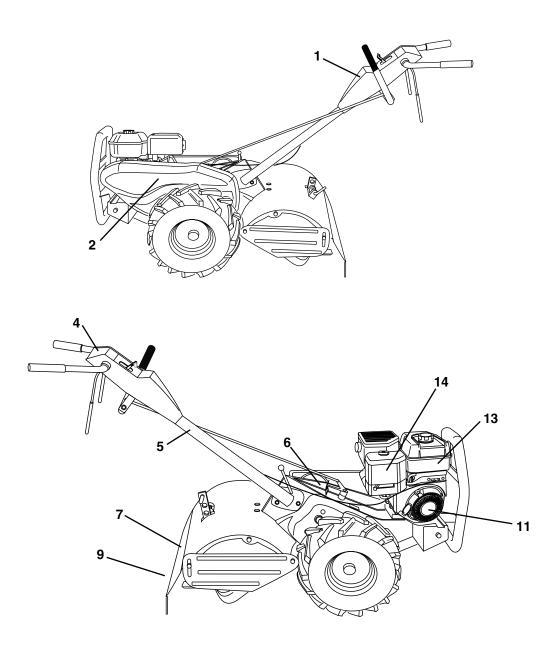
### **TINE ASSEMBLY**



PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
4459J	Tine, Outer, L.H.	8	74610616	Bolt, Hex 3/8-24 x 1
132673	Clevis Pin	9	4460J	Tine, Outer, R.H.
6554J	Tine, Inner, L.H.	10	132728	Assembly, Hub and Plate, R.H.
3146R	Retainer, Spring Zinc	11	6555J	Tine, Inner, R.H.
132727	Assembly, Hub and Plate, L.H.			
73610600	Nut, Hex 3/8-24	NOTE		nent dimensions given in U.S. inche
10040600	Washer, Lock 3/8		1 inch = 25	5.4 mm
	NO. 4459J 132673 6554J 3146R 132727 73610600	NO. DESCRIPTION  4459J Tine, Outer, L.H. 132673 Clevis Pin 6554J Tine, Inner, L.H. 3146R Retainer, Spring Zinc 132727 Assembly, Hub and Plate, L.H. 73610600 Nut, Hex 3/8-24	NO.         DESCRIPTION         NO.           4459J         Tine, Outer, L.H.         8           132673         Clevis Pin         9           6554J         Tine, Inner, L.H.         10           3146R         Retainer, Spring Zinc         11           132727         Assembly, Hub and Plate, L.H.           73610600         Nut, Hex 3/8-24         NOTE	NO.         DESCRIPTION         NO.         NO.           4459J         Tine, Outer, L.H.         8         74610616           132673         Clevis Pin         9         4460J           6554J         Tine, Inner, L.H.         10         132728           3146R         Retainer, Spring Zinc         11         6555J           132727         Assembly, Hub and Plate, L.H.         NOTE: All comport           73610600         Nut, Hex 3/8-24         NOTE: All comport

# **TILLER - - MODEL NUMBER PRRT65D**

### **DECALS**



KEY NO.	PART NO.	DESCRIPTION
1	173196	Decal, CNTRL PNL
2	189872	Decal, Decal, Blt Grd
4	180816	Decal, Instruction, Tilling
5	110614X	Decal, Hand Placement
6	102180X	Decal, Shift Indicator
7	162384	Decal, caution
9	120076X	Decal, Warning, Rotating Tines
11	173538	Decal, Rewind
13	173698	Decal, B&S Tank
14	173248	Decal, B&S Air Cleaner
	188904	Manual, Owner's (English)
	188905	Manual, Owner's (French)

### LIMITED WARRANTY

The Manufacturer warrants to the original consumer purchaser that this product as manufactured is free from defects in materials and workmanship. For a period of two (2) years from date of purchase by the original consumer purchaser, we will repair or replace, at our option, without charge for parts or labor incurred in replacing parts, any part which we find to be defective due to materials or workmanship. This Warranty is subject to the following limitations and exclusions.

- This warranty does not apply to the engine or components parts thereof. Please refer to the applicable manufacturer's warranty on these items.
- 2. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by Electrolux Home Products.
- The Warranty period for any products used for rental or commercial purposes is limited to 90 days from the date of original purchase.
- 4. This Warranty applies only to products which have been properly assembled, adjusted, operated, and maintained in accordance with the instructions furnished. This Warranty does not apply to any product which has been subjected to alteration, misuse, abuse, improper assembly or installation, delivery damage, or to normal wear of the product.
- 5. Exclusions: Excluded from this Warranty are belts, tines, tine adapters, normal wear, normal adjustments, standard hardware and normal maintenance.
- 6. In the event you have a claim under this Warranty, you must return the product to an authorized service dealer.

Should you have any unanswered questions concerning this Warranty, please contact:

Electrolux Home Products, Inc. In Canada contact:

Outdoor Products Customer Service Dept. Electrolux Canada Corp.

250 Bobby Jones Expressway 7075 Ordan Drive
Augusta, GA 30909 USA Mississauga, Ontario

L5T 1K6

giving the model number, serial number and date of purchase of your product and the name and address of the authorized dealer from whom it was purchased.

THIS WARRANTY DOES NOT APPLY TO INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR OUR EXPRESSED WARRANTIES. Some areas do not allow the limitation of consequential damages or limitations of how long an implied Warranty may last, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other rights which vary from locale to locale.

This is a limited Warranty within the meaning of that term as defined in the Magnuson-Moss Act of 1975.

# PARTS AND SERVICE

Your POULAN PRO product has been expertly engineered and carefully manufactured to rigid quality standards. As with all mechanical products, some adjustments or part replacement may be necessary during the life of your unit.

#### FOR SERVICE OR REPLACEMENT PARTS:

- 1. Consult your dealer/place of purchase.
- 2. Consult the yellow pages of your phone directory for the name of the nearest service dealer (under "saws" for Chain Saws or under "lawn mowers" for Trimmers, Brushcutters, and Blowers).
- 3. For replacement parts, have available the following information:
  - a. Model Number/Manufacturer's I.D. Number
  - b. Description of part.

**NOTE:** 

Electrolux Home Products provides parts and service through its authorized distributors and dealers; therefore, all requests for parts and service should be directed to your local dealer(s). The philosophy of Electrolux Home Products is to continually improve all of its products. If the operating characteristics or the appearance of your product differs from those described in this Manual, please contact your local dealer for updated information and assistance.