

## Thank You

Thank you for purchasing this product. It was carefully engineered to provide excellent performance when properly operated and maintained.

Please read this entire manual prior to operating the equipment. It instructs you how to safely and easily set up, operate and maintain your machine. Please be sure that you, and any other persons who will operate the machine, carefully follow the recommended safety practices at all times. Failure to do so could result in personal injury or property damage.

All information in this manual is relative to the most recent product information available at the time of printing. Review this manual frequently to familiarize yourself with the machine, its features and operation. Please be aware that this Operator's Manual may cover a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable to all models. We reserve the right to change product specifications, designs and equipment without notice and without incurring obligation.

If applicable, the power testing information used to establish the power rating of the engine equipped on this machine can be found at [www.opei.org](http://www.opei.org) or the engine manufacturer's web site.

If you have any problems or questions concerning the machine, phone an authorized service dealer or contact us directly. We want to ensure your complete satisfaction at all times.

Throughout this manual, all references to **right** and **left** side of the machine are observed from the operating position.

The engine manufacturer is responsible for all engine-related issues with regards to performance, power-rating, specifications, warranty and service. Please refer to the engine manufacturer's Owner's/Operator's Manual, packed separately with your machine, for more information.

## CONTENTS OF CARTON

- Tiller
- Bottle of Oil
- Handlebar Assembly
- Operator's Manual
- Engine Operator's Manual

**NOTE:** This Operator's Manual covers several garden tiller models. The tiller depicted may differ from yours.

### **WARNING**

To prevent personal injury or property damage, do not start the engine until all assembly steps are complete and you have read and understand the safety and operating instructions in this manual.

## RECOMMENDED TOOLS FOR ASSEMBLY

- Two 1/2 inch open-end wrenches
- Block of wood (to support tiller when removing wheels)
- Tire pressure gauge
- Clean oil funnel
- Motor oil. Refer to the Engine Operator's Manual for oil specifications and quantity required.

## ASSEMBLY

### Unpacking Instructions

**NOTE:** While unpacking, do not severely bend any of the control cables.

1. The tiller is heavy, do not attempt to remove it from the shipping platform until instructed to do so in these Set-up steps.
2. Remove any packaging material from the carton. Remove any staples from the bottom of the carton and remove the carton from the shipping platform.
3. Remove all loose parts from the carton. Check that you have the items listed in the Contents of Carton list (contact your local dealer or the factory if items are missing or damaged).

### Handle

**NOTE:** All references to the right or left side of the tiller are from the operator's position.

1. Remove two hex screws (5/16-18 x 1.50), two flange lock nuts (5/16-18), carriage bolt (5/16-18 x 6.75), flat washer (.349 x .879 x .063) and knob (5/16-18) from the lower handlebar and support brackets. See Figure 1.

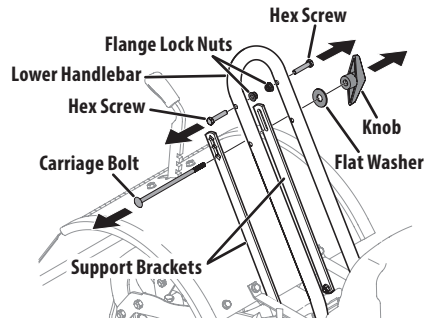


Figure 1

# SET-UP

- Using two hex screws and two flange lock nuts, loosely attach the handlebar support using the upper holes. See Figure 2.

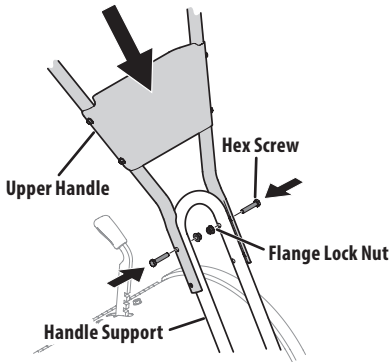


Figure 2

- Loosely attach the support brackets to the outside of the handlebar assembly using the carriage bolt, flat washer and knob. See Figure 3.

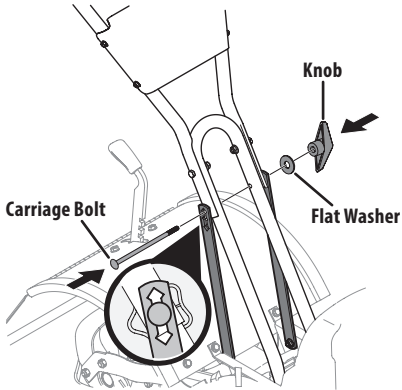


Figure 3

**NOTE:** If a support bracket will not move, loosen the attaching hex screws (5/16-18 x .75) and flange lock nuts (5/16-18) at the base of the support brackets.

**NOTE:** The support brackets must be assembled to the outside of the handlebar assembly.

- There are three height adjustment holes in the handlebar support bracket. Use a setting that will position the handlebars at approximately waist level when the tines are 3-4 inches into the soil. To adjust the height of the handlebars loosen the knob on the handle, pull out on the carriage bolt, adjust to the desired setting, push the carriage bolt in until the square portion of the bolt locks into place and re-tighten the knob. See Figure 4.

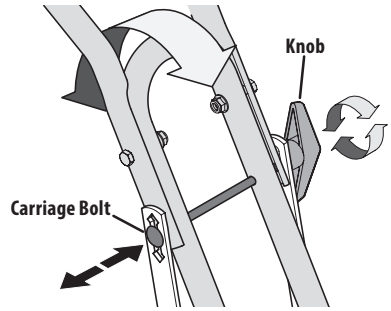


Figure 4

- Tighten all the handlebar mounting hardware securely.

## ATTACHING CLUTCH CABLES

- Carefully unwrap the cable(s) from the shipping position. To attach the clutch cable(s), feed the cable(s) up the front of the lower right handle and behind the handle panel. See Figure 5.

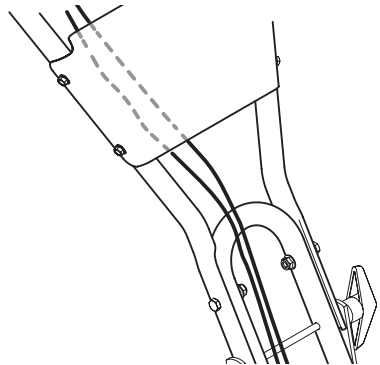


Figure 5

- Pull the forward clutch cable with the black end fitting up through the bottom hole of the cable bracket and push the cable connector up through the hole until the groove in the connector snaps into place. See Figure 6.

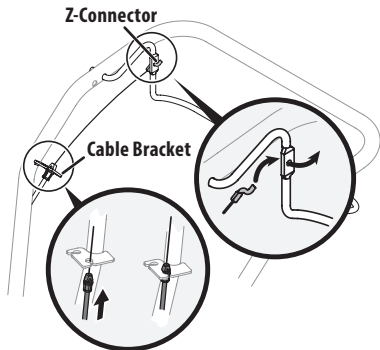


Figure 6

# SET-UP

- Place the Z-connector into the hole in the forward clutch bail from the outside of the bail to the inside. See Figure 6 on page 6.
- Pull the reverse clutch cable (if equipped) with the red fitting up through the top hole of the cable bracket and push the cable connector up through the hole until the groove in the connector snaps into place. See Figure 7.

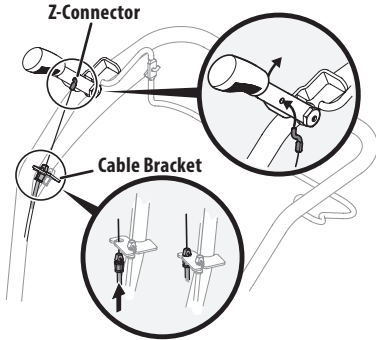


Figure 7

- Place the Z-connector into the hole in the reverse clutch handle assembly from the inside of the handle to the outside. See Figure 7.

## INSTALLING EMERGENCY STOP CONTROL (IF EQUIPPED)

### **WARNING**

Use extreme caution when reversing or pulling the machine towards you. To avoid getting pinned against a structure, ensure adequate distance before reversing near a wall or fence. For machines with powered reverse drive capability, familiarize yourself with the operation of the emergency stop control. It provides a means of stopping power to the tines and wheel drive in an emergency situation.

- Locate the emergency stop control wire on the right side of the unit behind the engine.
- Route the emergency stop control wire up the outside on the right side lower handle support and right side handle support bracket. Secure the wire to the handle and support with a cable tie, slightly above the support bracket. See Figure 8.

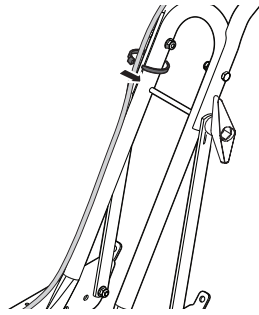


Figure 8

- Route the wire over the upper handle, then behind the handle panel, securing it to the right side of the handlebar with the clutch cables at the upper corner of the panel. See Figure 9.

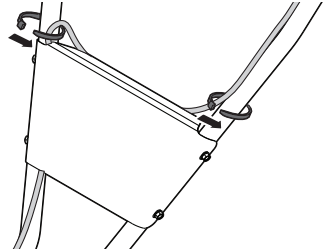


Figure 9

- Route the wire behind the panel to the left side handle, and secure it just above the upper corner of the panel with a cable tie. (Keep the wire positioned along the inside of the handle). See Figure 10.

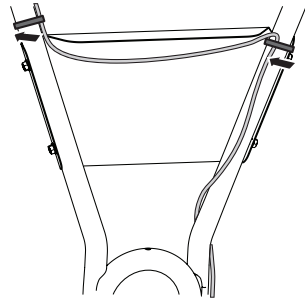


Figure 10

# SET-UP

5. Mount the emergency stop control ON/OFF switch onto the left side of the handlebar with the #10-32 : 1.50 hex bolt and 10-32 flange lock nut. See 1 in Figure 11.

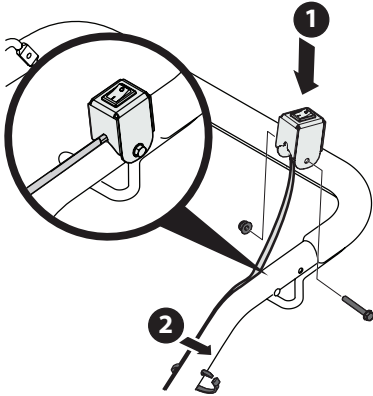


Figure 11

6. Secure the wire near the bottom of the handlebar with a cable tie looped through the hole beside the instruction label on the left handlebar. See 2 in Figure 11.

**NOTE:** Do not allow the wire to cover the safety label attached to the handle. Label must be fully visible and legible.

## MOVE TILLER OFF CRATE

### Freewheel Mode

To roll the tiller off the shipping platform, put the wheels in freewheel, as follows:

1. Place a sturdy block under the transmission to raise one wheel about 1 inch off the ground.
2. Remove the wheel drive pin from the wheel hub and wheel shaft. See Figure 12.

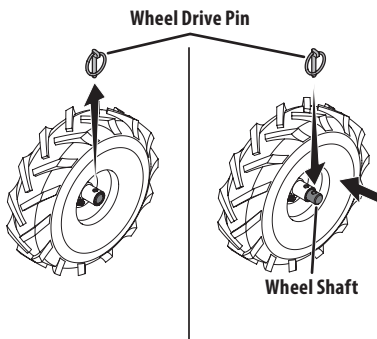


Figure 12

3. Slide the wheel fully inward on the wheel shaft. Reinstall the wheel drive pin through the wheel shaft only (not through the wheel hub). See Figure 12. The wheel should now spin freely (freewheel) on the wheel shaft. Repeat with the other wheel.

4. Use the handlebar to roll the tiller to a flat area.

### Wheel Drive Mode

Before starting the engine, the wheels must be placed in the WHEEL DRIVE position (pins through wheel hubs and wheel shaft).

## SET-UP

### Tire Pressure

Check the air pressure with a tire gauge. Deflate or inflate the tires equally to between 15 and 20 PSI.

**NOTE:** Be sure that both tires are inflated equally or the tiller will pull to one side.

### Gas and Oil Fill Up

#### **⚠ WARNING**

Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Never fuel the machine indoors or while the engine is hot or running. Extinguish cigarettes, cigars, pipes, and any other sources of ignition.

Service the engine with gasoline and oil as instructed in the Engine Operator's Manual packed separately with your tiller. Read the instructions carefully.