

**ASSEMBLY AND MAINTENANCE INSTRUCTION FOR THE WS-490 GREENS WHEELIE**

1. Remove all parts from shipping carton.
2. Assemble handle to frame.
  - a. Align two holes in frame channel with two holes in handle.
  - b. Align sprayer support bracket over channel causing the two holes to align with the two holes in frame channel.
  - c. Assemble the two bolts found in the channel to the channel and handle. Do not tighten bolts at this time.
3. Assemble handle-frame reinforcement plate to the handle and frame.
  - a. Position handle-frame reinforcement plate to the rear of the sprayer between the frame and the handle.
  - b. Assemble the two 3/4" long bolts (found in the plate) to the plate and sprayer frame. (The bolt heads must be inside the sprayer and the nut washers must be on the outside of the plate.)
  - c. Tighten the nuts to these bolts.
  - d. Assemble the "U" bolt to the handle and frame, and assemble the flat washers, lock washers and nuts to the "U" bolt and tighten.
  - e. Now tighten the two bolts that join the handle to the frame channel.
4. Assemble the axle shaft and wheels.
  - a. Remove cotter pins and spacers from the axle shaft.
  - b. Position axle shaft through the two 5/8" holes in the sprayer frame.
  - c. Place the two spacers on the axle; one on each side of the sprayer frame.
  - d. Position the wheels, one on each side of the frame, with the plate and roller assembly facing the sprayer frame.
  - e. Position the two wheel retainers (cotter pins) in the holes of the axle.
  - f. Stretch the rubber pump hoses over the rollers on the wheels, making certain that the roller shafts were not bent during shipping. Roller shafts should be level and may require realignment if pump rides off the roller assembly.
  - g. Turn each wheel by hand to assure the rubber pump hoses ride on the rollers and that all rollers are turning freely.
5. Attach the valve-control plate.
  - a. Remove the two bolts from the handle-control plate.
  - b. Assemble the handle-control plate to the upper handlebars, placing the control plate on the handle with the two cables in front of the handle. Assemble the two bolts to join the plate to the handle and tighten nuts.
  - c. Carefully bring the cable-valve assembly down to the valve bracket on boom.
  - d. Remove the two bolts from the valves and assemble the valves at approximately a 30 degree angle on the boom bracket (nozzle tips up). Tighten the bolts.

**Note: The angle of the valve body may be changed later to achieve the necessary six (6) foot spray pattern.**

- e. Secure the two cables to the two clips on the handle.
  - f. Assemble the two pressure tubes from the valves to the rear fittings on the pump. These fittings should be tighten with (2) wrenches to prevent the rear pump hoses from being twisted.
  - g. Assemble the two suction tubes on the front fittings and tighten these fittings in the same manner as the pressure tubes were.
6. Place the ten (10) gallon container in the sprayer frame and insert suction tubes into the fitting provided.
7. To calibrate, fill container with tap water.
  - a. Push sprayer on a concrete or black top area and adjust the two valve angles (raise or lower) until desired spray overlap is obtained. **Approximately 1000 sq. ft. per gallon coverage will be achieved with a six (6) foot spray pattern.**
8. To clean hoses and tank: fill with three gallons of fresh water and flush entire unit.
9. **Important valve maintenance: Remove cap, nozzle, and screen periodically, and lubricate with two drops of oil into the opening.**