

Orbit 67005

Orbit 67005 4-Port Drip Irrigation Manifold

Instruction Manual

INTRODUCTION

The Orbit 4-Port Drip Irrigation Manifold (Model 67005) is designed to efficiently distribute water to various plants in your garden. This manifold attaches to a 1/2-inch male pipe thread (MPT) PVC riser, converting an existing sprinkler head connection into a drip watering system. It allows for the connection of up to four 1/4-inch drip tubes, providing targeted irrigation for trees, shrubs, perennials, or annuals in beds or containers.

This manual provides essential information for the proper installation, operation, and maintenance of your drip irrigation manifold to ensure optimal performance and longevity.

PRODUCT FEATURES

- **Versatile Configurations:** Designed to replace existing spray heads, allowing for customized irrigation setups.
- **Precise Flow Control:** Features adjustable flow control, suitable for both non-pressure compensating emitters and micro-sprinklers. Non-flow control versions are appropriate for pressure-compensating emitters and emitter tubing.
- **Easy Installation:** Equipped with 360-degree rotating 1/4-inch barbs for simple insertion and positioning of drip tubing.
- **Debris Prevention:** Recommended to install with a minimum 120-mesh filter or pressure regulator on non-culinary secondary water to prevent clogging of emitters and micro-sprinklers. (Filter/regulator sold separately)

SETUP & INSTALLATION

1. **Prepare the Riser:** Ensure you have a 1/2-inch male pipe thread (MPT) PVC riser in the desired location. This manifold is designed to screw directly onto this riser.

2. **Attach the Manifold:** Carefully screw the Orbit 4-Port Drip Irrigation Manifold onto the 1/2-inch MPT PVC riser. Hand-tighten only to prevent damage.
3. **Connect Drip Tubing:** Insert 1/4-inch drip tubing onto the 360-degree rotating barbs of the manifold. The rotating design allows for easy positioning of the tubing towards your plants.



Figure 1: Connecting 1/4-inch drip tubing to the manifold.

4. **Position Tubing and Emitters:** Route the 1/4-inch drip tubing to the base of the plants you wish to water. Attach appropriate emitters (e.g., bubblers, micro-sprinklers, or pressure-compensating emitters) at the plant locations.



Figure 2: Installing a drip emitter for targeted watering.

5. **Consider Filtration:** For optimal performance and to prevent clogging, especially with non-culinary secondary water, install a minimum 120-mesh filter or pressure regulator upstream of the manifold.

OPERATING INSTRUCTIONS

The Orbit 4-Port Drip Irrigation Manifold allows for individual flow adjustment at each port (on flow control versions) and at the emitters themselves. This enables precise control over the water delivered to each plant.

1. **Adjusting Manifold Flow (if applicable):** If your manifold features flow control, locate the adjustment mechanism on the top of the manifold. Turn the dial to increase or decrease the overall water flow through the manifold. This affects the supply to all connected 1/4-inch tubes.



Figure 3: Adjusting the flow control on the manifold.

2. **Adjusting Emitter Flow:** Many drip emitters and micro-sprinklers also feature individual flow adjustment. Turn the cap or dial on the emitter to fine-tune the water output for specific plants.
3. **Watering Schedule:** Establish a watering schedule appropriate for your plants and local climate. Drip irrigation delivers water slowly and directly to the root zone, reducing evaporation and runoff.

MAINTENANCE

- **Regular Inspection:** Periodically inspect the manifold, drip tubing, and emitters for any signs of damage, leaks, or blockages.
- **Clean Filters:** If a filter is installed, clean it regularly to prevent debris from accumulating and restricting water flow.
- **Winterization:** In freezing climates, ensure the system is properly drained and winterized to prevent damage from ice expansion. Consult local guidelines for specific winterization procedures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Low water flow from emitters	Clogged filter, kinked tubing, or insufficient water pressure.	Clean or replace filter. Check tubing for kinks or damage. Ensure adequate water supply pressure. Adjust manifold or emitter flow settings.
Leaks at connections	Loose connections, damaged O-rings, or incorrect tubing size.	Tighten connections. Inspect and replace damaged O-rings. Ensure 1/4-inch tubing is securely inserted into barbs.
Uneven water distribution	Incorrect emitter placement or inconsistent flow settings.	Adjust individual emitter flow rates. Reposition emitters for better coverage. Ensure manifold flow is appropriate.

SPECIFICATIONS

Feature	Detail
Model Number	67005
Brand	Orbit
Number of Ports	4
Drip Tubing Size	1/4 inch
Inlet Thread Size	1/2 inch MPT (Male Pipe Thread)
Connector Type	Barb
Material	Durable Plastic
Intended Use	Outdoor irrigation with cold water only.

WARRANTY & SUPPORT

For warranty information or technical support, please refer to the official Orbit website or contact Orbit customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Contact Information:

Website: www.orbitonline.com

Customer Service: Refer to the website for current contact methods (phone, email, chat).