

INSTALLATION INSTRUCTIONS

I-50 GEAR-DRIVEN ROTORS

Hunter®

Correct Installation

I-50 adjustable arc rotors should be installed flush at ground level (see Fig. 1).

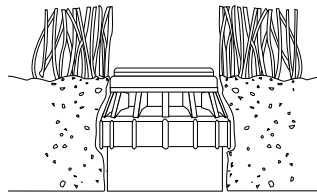


Fig. 1

I-50 Arc Adjustments

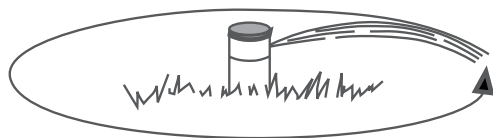
Adjustments (not for "ON" opposing-nozzle models)

All I-50 adjustable arc rotors are preset to approximately 180°. Sprinklers can be adjusted with water on or off.

- 1 Use your hand to rotate the nozzle turret counterclockwise to the left stop to complete any interrupted rotation cycle.
- 2 Next, rotate the nozzle turret clockwise to the right stop. This is the fixed side of the arc. The nozzle turret must be held in this position for all arc adjustments.

To Increase Arc

- 1 While holding the nozzle turret at the right stop, turn the arc adjustment ring counterclockwise to increase the arc.
- 2 Adjust to any arc between 50° and 360°. The arc adjustment will stop turning when the maximum arc (360°) is reached. When set to 360°, the sprinkler will rotate continually counterclockwise at a rate of approximately 3 minutes per rotation (see Fig. 2).



Full-Circle Rotation Speed
I-50 = 3 minutes (approx.)

Fig. 2

To Decrease Arc

- 1 If the arc is set to less than 360°, hold the nozzle turret at the right stop and turn the arc adjustment ring clockwise to decrease the arc.
- 2 Adjust to any arc between 50° and 360°. The arc adjustment ring will stop turning when the minimum arc (50°) is reached.

Radius Adjustment

Insert the hex end of the Hunter wrench into the nozzle-retainer/range-adjustment screw (see Fig. 3). Turn the screw clockwise into the stream of water to decrease the radius, or counterclockwise to increase the radius.

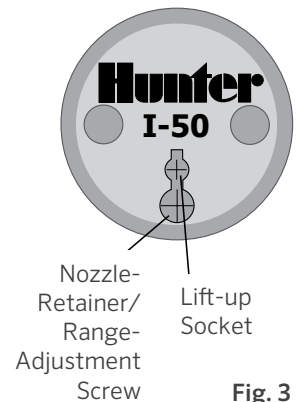


Fig. 3

Precipitation Rate Adjustment

Where excessively wet or dry areas are a problem, the precipitation rate may be adjusted. Simply replace the existing nozzle with a larger one to increase or a smaller one to decrease the rate of precipitation.

Nozzle Installation

- 1 Insert the key end of the Hunter wrench into the lift-up socket of a pop-up sprinkler. Pull the riser up to gain access to the nozzle socket.
- 2 Using the Hunter wrench, loosen the nozzle-retainer/range-adjustment screw. If a nozzle is already installed in the sprinkler, it may now be removed by briefly turning on the water.
- 3 Discard nozzle if removed with pliers. Slip the desired nozzle into the nozzle socket. Note that the socket is angled up 25° (see Fig. 4). Tighten the nozzle-retainer/range-adjustment screw.

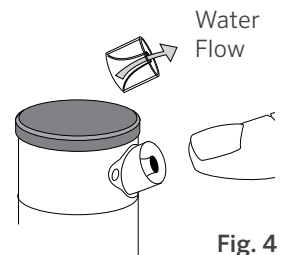


Fig. 4

INSTALLATION INSTRUCTIONS

I-50 GEAR-DRIVEN ROTORS

I-50 Nozzle Performance Data

| Nozzle | Pressure | | Flow GPM | Precip in/hr | |
|------------------------|----------|---------------|-------------|--------------|------|
| | PSI | Radius ft. | | ■ | ▲ |
| 8 Lt. Brown | 40 | 44' | 7.6 | 0.76 | .87 |
| | 50 | 45' | 8.4 | 0.80 | .92 |
| | 60 | 46' | 9.2 | 0.84 | .97 |
| 10 Lt. Green | 50 | 49' | 10.3 | 0.83 | 0.95 |
| | 60 | 50' | 11.3 | 0.87 | 1.00 |
| | 70 | 51' | 12.2 | 0.90 | 1.04 |
| | 80 | 51' | 13.0 | 0.96 | 1.11 |
| 13 Lt. Blue | 50 | 50' | 11.1 | 0.85 | .99 |
| | 60 | 51' | 12.3 | 0.91 | 1.05 |
| | 70 | 52' | 13.3 | 0.95 | 1.08 |
| | 80 | 53' | 14.2 | 0.97 | 1.12 |
| 15 Gray | 50 | 54' | 13.8 | 0.91 | 1.05 |
| | 60 | 55' | 15.7 | 1.00 | 1.15 |
| | 70 | 57' | 16.6 | 0.98 | 1.14 |
| | 80 | 59' | 18.3 | 1.01 | 1.17 |
| 23 Dk. Green | 60 | 62' | 21.3 | 1.07 | 1.23 |
| | 70 | 64' | 23.0 | 1.08 | 1.25 |
| | 80 | 65' | 24.5 | 1.12 | 1.29 |
| | 90 | 66' | 25.9 | 1.14 | 1.32 |
| 25 Dk. Blue | 60 | 66' | 23.9 | 1.06 | 1.22 |
| | 70 | 67' | 25.8 | 1.11 | 1.28 |
| | 80 | 68' | 27.7 | 1.15 | 1.33 |
| | 90 | 69' | 29.5 | 1.19 | 1.38 |

I-50 Nozzle Performance Data - Metric

| Nozzle | Pressure | | Radius m | Flow | | Precip mm/hr | |
|------------------------|----------|-----|-------------|--------------------|-------|--------------|----|
| | Bar | kPa | | m ³ /hr | l/min | ■ | ▲ |
| 8 Lt. Brown | 2.5 | 250 | 13.1 | 1.63 | 27.2 | 19 | 22 |
| | 3.0 | 300 | 13.4 | 1.80 | 30.0 | 20 | 23 |
| | 3.5 | 350 | 13.7 | 1.94 | 32.3 | 21 | 24 |
| | 4.0 | 400 | 14.0 | 2.06 | 34.4 | 21 | 24 |
| | 4.5 | 450 | 14.0 | 2.18 | 36.3 | 22 | 26 |
| | 5.0 | 500 | 14.3 | 2.29 | 38.2 | 22 | 26 |
| 10 Lt. Green | 3.0 | 300 | 14.6 | 2.20 | 36.6 | 21 | 24 |
| | 3.5 | 350 | 14.9 | 2.37 | 39.4 | 21 | 24 |
| | 4.0 | 400 | 15.2 | 2.52 | 42.0 | 22 | 25 |
| | 4.5 | 450 | 15.5 | 2.67 | 44.5 | 22 | 25 |
| | 5.0 | 500 | 15.5 | 2.81 | 46.8 | 23 | 27 |
| | 5.5 | 550 | 15.8 | 2.96 | 49.3 | 24 | 27 |
| 13 Lt. Blue | 3.0 | 300 | 14.9 | 2.36 | 39.4 | 21 | 24 |
| | 3.5 | 350 | 15.2 | 2.55 | 42.6 | 22 | 25 |
| | 4.0 | 400 | 15.5 | 2.73 | 45.5 | 23 | 26 |
| | 4.5 | 450 | 15.5 | 2.90 | 48.3 | 24 | 28 |
| | 5.0 | 500 | 15.8 | 3.06 | 51.0 | 24 | 28 |
| | 5.5 | 550 | 16.2 | 3.23 | 53.9 | 25 | 29 |
| 15 Gray | 3.0 | 300 | 16.2 | 2.93 | 48.8 | 22 | 26 |
| | 3.5 | 350 | 16.5 | 3.19 | 53.2 | 24 | 27 |
| | 4.0 | 400 | 16.8 | 3.44 | 57.3 | 24 | 28 |
| | 4.5 | 450 | 17.1 | 3.67 | 61.2 | 25 | 29 |
| | 5.0 | 500 | 17.4 | 3.89 | 64.9 | 26 | 30 |
| | 5.5 | 550 | 18.0 | 4.14 | 68.9 | 26 | 30 |
| 23 Dk. Green | 4.0 | 400 | 18.9 | 4.76 | 79.4 | 27 | 31 |
| | 4.5 | 450 | 19.2 | 5.03 | 83.9 | 27 | 32 |
| | 5.0 | 500 | 19.5 | 5.29 | 88.1 | 28 | 32 |
| | 5.5 | 550 | 19.8 | 5.56 | 92.7 | 28 | 33 |
| | 6.0 | 600 | 20.1 | 5.79 | 96.5 | 29 | 33 |
| | 6.5 | 650 | 20.1 | 6.01 | 100.2 | 30 | 34 |
| 25 Dk. Blue | 4.0 | 400 | 20.1 | 5.33 | 88.7 | 26 | 30 |
| | 4.5 | 450 | 20.4 | 5.65 | 94.2 | 27 | 31 |
| | 5.0 | 500 | 20.7 | 5.96 | 99.3 | 28 | 32 |
| | 5.5 | 550 | 21.0 | 6.29 | 104.9 | 28 | 33 |
| | 6.0 | 600 | 21.0 | 6.57 | 109.6 | 30 | 34 |
| | 6.5 | 650 | 21.3 | 6.84 | 114.1 | 30 | 35 |

I-50 Dual Opposing Nozzle Performance Data

| Nozzle | Pressure | | Flow GPM | Precip in/hr | |
|------------------------|----------|---------------|-------------|--------------|------|
| | PSI | Radius ft. | | ■ | ▲ |
| 15 Gray | 50 | 52' | 13.0 | 0.46 | 0.53 |
| | 60 | 54' | 13.2 | 0.44 | 0.50 |
| | 70 | 56' | 14.4 | 0.44 | 0.51 |
| | 80 | 57' | 15.5 | 0.46 | 0.53 |
| 18 Red | 50 | 58' | 13.7 | 0.39 | 0.45 |
| | 60 | 59' | 15.2 | 0.42 | 0.49 |
| | 70 | 60' | 16.6 | 0.44 | 0.51 |
| | 80 | 62' | 17.8 | 0.45 | 0.51 |
| 20 Dk. Brown | 60 | 63' | 19.1 | 0.46 | 0.53 |
| | 70 | 64' | 20.9 | 0.49 | 0.57 |
| | 80 | 66' | 22.3 | 0.49 | 0.57 |
| | 90 | 66' | 23.9 | 0.53 | 0.61 |
| 23 Dk. Green | 60 | 65' | 20.4 | 0.46 | 0.54 |
| | 70 | 66' | 22.3 | 0.49 | 0.57 |
| | 80 | 67' | 24.0 | 0.51 | 0.59 |
| | 90 | 68' | 25.6 | 0.53 | 0.62 |
| 25 Dk. Blue | 60 | 66' | 22.0 | 0.49 | 0.56 |
| | 70 | 68' | 24.0 | 0.50 | 0.58 |
| | 80 | 69' | 25.9 | 0.52 | 0.60 |
| | 90 | 70' | 27.2 | 0.53 | 0.62 |
| 28 Black | 70 | 70' | 28.9 | 0.57 | 0.66 |
| | 80 | 72' | 30.9 | 0.57 | 0.66 |
| | 90 | 74' | 32.9 | 0.58 | 0.67 |
| | 100 | 76' | 33.7 | 0.56 | 0.65 |

I-50 Dual Opposing Nozzle Performance Data - Metric

| Nozzle | Pressure | | Radius m | Flow | | Precip mm/hr | |
|------------------------|----------|-----|-------------|--------------------|-------|--------------|----|
| | Bar | kPa | | m ³ /hr | l/min | ■ | ▲ |
| 15 Gray | 3.0 | 300 | 15.2 | 2.75 | 45.8 | 12 | 14 |
| | 3.5 | 350 | 15.8 | 2.91 | 48.5 | 12 | 13 |
| | 4.0 | 400 | 16.2 | 3.06 | 51.0 | 12 | 14 |
| | 4.5 | 450 | 16.8 | 3.20 | 53.3 | 11 | 13 |
| | 5.0 | 500 | 17.1 | 3.32 | 55.4 | 11 | 13 |
| | 5.5 | 550 | 17.4 | 3.46 | 57.7 | 11 | 13 |
| 18 Red | 3.0 | 300 | 17.4 | 2.90 | 48.3 | 10 | 11 |
| | 3.5 | 350 | 17.7 | 3.15 | 52.5 | 10 | 12 |
| | 4.0 | 400 | 18.0 | 3.38 | 56.4 | 10 | 12 |
| | 4.5 | 450 | 18.0 | 3.61 | 60.1 | 11 | 13 |
| | 5.0 | 500 | 18.3 | 3.82 | 63.7 | 11 | 13 |
| | 5.5 | 550 | 18.9 | 4.05 | 67.5 | 11 | 13 |
| 20 Dk. Brown | 4.0 | 400 | 18.9 | 4.26 | 71.1 | 12 | 14 |
| | 4.5 | 450 | 19.2 | 4.54 | 75.6 | 12 | 14 |
| | 5.0 | 500 | 19.5 | 4.80 | 80.0 | 13 | 15 |
| | 5.5 | 550 | 20.1 | 5.08 | 84.7 | 13 | 15 |
| | 6.0 | 600 | 19.8 | 5.32 | 88.7 | 14 | 16 |
| | 6.5 | 650 | 20.1 | 5.55 | 92.5 | 14 | 16 |
| 23 Dk. Green | 4.0 | 400 | 19.5 | 4.55 | 75.8 | 12 | 14 |
| | 4.5 | 450 | 19.8 | 4.85 | 80.8 | 12 | 14 |
| | 5.0 | 500 | 20.1 | 5.14 | 85.6 | 13 | 15 |
| | 5.5 | 550 | 20.4 | 5.45 | 90.8 | 13 | 15 |
| | 6.0 | 600 | 20.7 | 5.71 | 95.1 | 13 | 15 |
| | 6.5 | 650 | 20.7 | 5.96 | 99.4 | 14 | 16 |
| 25 Dk. Blue | 4.0 | 400 | 20.1 | 4.92 | 82.1 | 12 | 14 |
| | 4.5 | 450 | 20.4 | 5.23 | 87.2 | 13 | 14 |
| | 5.0 | 500 | 20.7 | 5.52 | 92.0 | 13 | 15 |
| | 5.5 | 550 | 21.0 | 5.84 | 97.3 | 13 | 15 |
| | 6.0 | 600 | 21.3 | 6.10 | 101.7 | 13 | 15 |
| | 6.5 | 650 | 21.3 | 6.36 | 106.0 | 14 | 16 |
| 28 Black | 4.5 | 448 | 21.0 | 6.38 | 106.4 | 14 | 17 |
| | 5.0 | 496 | 21.3 | 6.68 | 111.3 | 15 | 17 |
| | 5.5 | 552 | 21.9 | 7.00 | 116.7 | 15 | 17 |
| | 6.0 | 600 | 22.3 | 7.27 | 121.1 | 15 | 17 |
| | 6.5 | 648 | 22.6 | 7.52 | 125.3 | 15 | 17 |
| | 7.0 | 696 | 23.2 | 7.76 | 129.4 | 14 | 17 |

Note: All precipitation rates are calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2. Precipitation rates for the ON model are calculated at 360°.