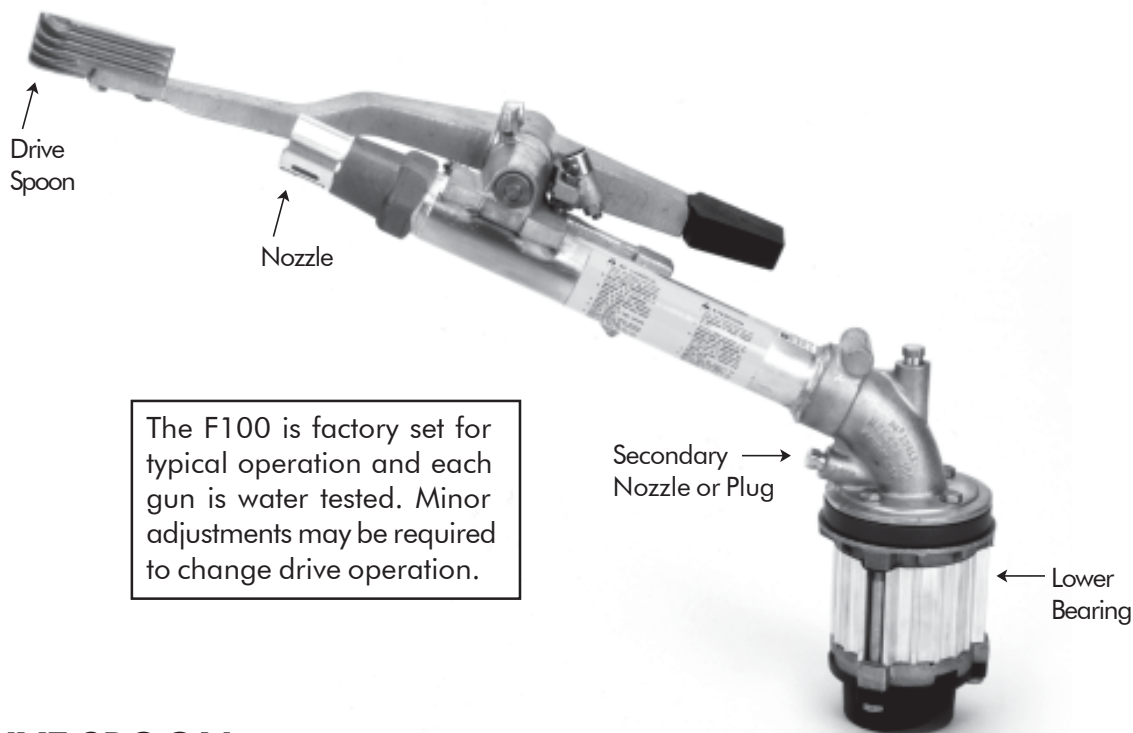


innovation in irrigation™

NELSON**F100 BIG GUN®****F100 BIG GUN® OPERATING & ADJUSTMENT INSTRUCTIONS**

The F100 is factory set for typical operation and each gun is water tested. Minor adjustments may be required to change drive operation.

THE DRIVE SPOON:

Adjust to increase or decrease drive power.

When to Adjust:

1. For low pressure operation.
2. For sloping terrain operation.

NOTE: The factory setting of the drive spoon will produce 80 to 90 arm strokes per minutes and an approximate rotation through 180° arc in one and a half minutes. Short, choppy arm strokes usually indicate marginal pressure conditions and necessitate spoon adjustment. The lower bearing assembly includes a spring loaded disc brake that does not need adjustment.

On sloping terrain, adjust the drive spoon 1/16" into the stream. For traveler operation, sloping terrain will cause the nozzle pressure to fluctuate 4.3 PSI for every 10 feet of elevation change. A counter balance kit is available for operation on a tilted riser.

For operation below 40 PSI, adjust the spoon 1/16" into the stream. **NOTE:** Operation below the recommended pressure may result in improper mechanical operation, particularly where sloping terrain conditions exist. For good irrigation droplet conditions, 55 PSI or greater is recommended.

PROBLEM: Drive arm does not swing properly.

- SOLUTION:**
- A. Nozzle or barrel partially plugged with debris — unplug.
 - B. Arm Shaft loose — tighten nut.
 - C. Bearings dirty or corroded — replace.
 - D. Insufficient Pressure — 40 PSI minimum for irrigation.
 - E. Broken or worn drive arm spoon — replace.

PROBLEM: Insufficient water distribution close to the sprinkler.

SOLUTION: Remove secondary plug, install secondary nozzle.

PROBLEM: “Ragged” or turbulent stream discharge.

- SOLUTION:**
- A. Debris trapped in nozzle barrel — remove.
 - B. Inlet riser connection does not allow smooth flow of water into gun — insert 625V (2 1/2”) or 600V (2”) stream straightener vane into 2 1/2” or 2” x 6” pipe at base of gun.
 - C. Nozzle worn excessively or damaged — replace.

PROBLEM: Lower bearing hard to rotate.

SOLUTION: Service lower bearing. (Request SR100 Operation & Maintenance Instructions for procedure.)

BE CAREFUL!!

1. Read operating instructions before operating sprinkler or making any adjustments.
2. Never make adjustments or perform service while the sprinkler is in operation.
3. Stand clear of an operating sprinkler.
4. Stand clear of the high velocity water stream.
5. Never direct the water stream onto a roadway or electrical transmission lines.

WARRANTY AND DISCLAIMER

Nelson Big Gun sprinklers are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the product was designed and under normal use and service. The manufacturer assumes no responsibility for installation, is limited solely to replacement or repair of defective parts, and the manufacturer will not be liable for any crops or other consequential damages resulting from any defects or breach of warranty. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES AND OF ALL OTHER OBLIGATIONS OR LIABILITIES OF MANUFACTURER. No agent, employee or representative of the manufacturer has authority to waive, alter or add to the provision of the warranty, nor to make any representations or warranty not contained herein.