

Maintenance & Cleaning Procedure

38 mm Fire Nozzles

Applies to: TFT 38 mm / 1-1/2 in. handline nozzles, including automatic, selectable gallonage, fog/straight stream, and similar TFT handline models, as well as all models sold by WFR.

Important: This procedure is a practical maintenance guide. Always follow the current TFT manufacturer manual and remove any damaged, leaking, frozen, or difficult-to-operate nozzle from service until inspected or repaired by qualified personnel.

1. After Each Use

Flush with clean water: Connect the nozzle to a clean water source. Open the nozzle fully. Rotate the pattern control from straight stream to wide fog several times. Place the nozzle in the flush position, if equipped, to remove grit or debris.

Clean the exterior: Rinse dirt, mud, foam residue, salt, sand, or chemical contamination from the outside of the nozzle. Use mild soap and water only if required. Do not use harsh solvents, acids, caustic cleaners, or abrasive tools.

Drain the nozzle: Open and close the valve several times. Shake or drain excess water from the nozzle. Do not store the nozzle full of water, especially where freezing is possible.

2. Visual Inspection

- Check for cracked, bent, or damaged body; damaged bumper; loose or missing screws; damaged or missing gasket; damaged inlet screen, if equipped; debris inside the coupling; stiff or rough bail handle movement; stiff or rough pattern control movement; difficulty moving into flush position; leakage around the valve, swivel, or pattern control; and damaged threads or couplings.
- Remove the nozzle from service if there is visible damage, leakage, or if controls do not move properly.

3. Operational Check

- Move the bail handle from closed to fully open.
- Rotate the pattern control through the full range.
- Confirm the nozzle goes into flush, if equipped.
- Confirm the coupling or swivel moves freely.
- Confirm the gasket is seated properly.
- Flow-test the nozzle where possible to confirm proper stream pattern and shutoff.

4. Lubrication Procedure

- Lubricate only when required. If the nozzle controls move freely, lubrication is normally not needed.
- Use only a suitable nozzle lubricant. TFT recommends Break Free CLP for field lubrication. **Do not use** WD-40, PB Blaster, or similar penetrating lubricants, as they may swell O-rings and make operation worse.
- Apply a small amount around the front shaper/pattern control, then rotate the shaper from straight stream to fog several times.
- Place the nozzle into flush position, if equipped, and apply a small amount around internal moving parts where accessible.
- Open and close the bail handle several times.
- Apply a small amount to the handle detents and moving handle points.
- Apply a small amount around the rear coupling/swivel area.
- Wipe off excess lubricant. Do not over-lubricate, as excess oil attracts dirt and grit.

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5. Monthly or Scheduled Maintenance

- Perform the full visual inspection.
- Check gasket condition.
- Check inlet screen condition, if equipped.
- Confirm smooth operation of all controls.
- Confirm the nozzle shuts off fully.
- Confirm flush function works.
- Confirm coupling/swivel turns freely.
- Lubricate only if movement is stiff.
- Record inspection date, nozzle serial number, condition, and any action taken.

6. After Foam Use

- Flush the nozzle thoroughly with clean water.
- Cycle the pattern control several times while flowing water.
- Use flush mode, if equipped.
- Rinse the exterior.
- Drain and dry before storage. Foam residue can dry inside the nozzle and make the pattern control or valve stiff.

7. After Salt Water, Dirty Water, or Wildland Use

- Rinse thoroughly with clean fresh water.
- Flush internally for several minutes.
- Move all controls while flushing.
- Inspect carefully for grit, sand, ash, mud, corrosion, or stiffness.
- Lubricate only if controls do not move freely.

8. Storage

- Store the nozzle clean, drained, and dry.
- Keep away from freezing conditions and corrosive chemicals.
- Store in a compartment where it will not be dropped or damaged.
- Do not drop or throw the nozzle.

9. Remove From Service If

- The nozzle leaks when closed.
- The bail handle is stiff, loose, or does not operate smoothly.
- The pattern control is seized, rough, or difficult to turn.
- Flush does not work.
- The stream is poor or uneven after cleaning.
- Threads, coupling, swivel, body, or bumper are damaged.
- The nozzle has been frozen while full of water.
- Internal parts appear damaged or missing.

Simple staff note: Clean with fresh water, inspect for damage, make sure all controls move freely, lubricate only when needed, and remove from service if the nozzle leaks, sticks, or is damaged.

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10. Maintenance Record

Recommended record fields:

Date	Nozzle Serial #	Location/Truck	Inspected By	Condition	Cleaning Done	Lubricated	Repairs Required