



THE THUMPER™

INSTRUCTION SHEET



MECHANICAL PULSE.
ACOUSTICALLY TRACE.
FIND THE LINE.

HOW IT WORKS

The Thumper connects to a pressurized water-filled line and uses water flow to create a controlled mechanical pulse inside the pipe. That pulse travels through the line, allowing technicians to acoustically trace the path of underground plastic or PVC pipe from the surface.

BEFORE YOU BEGIN

- Ensure you have the proper fittings and a pressurized water source.
- Inspect the Thumper for any debris and ensure the screen is clean.

CONNECTION & START-UP

- Attach the Thumper to a hose bib or fitting.
- Tighten the adjustment screw only until slight pressure is felt against the spring. Do not overtighten or fully compress the spring.
- The piston only needs to be slightly unseated to allow water flow.
- Turn the water on and confirm water flows from the exit port.
- A short hose can be attached to the exit port to divert water away.

ADJUSTING THE PULSE

- Slowly back the adjustment screw out until the Thumper begins to vibrate or pulse.
- A range of pulse frequencies may be available depending on water pressure.
- Hold the adjustment screw and tighten the lock nut to secure the setting.

LOCATING THE LINE

- The Thumper should continue running during acoustic locating.
- If it stops, restart and adjust to a slightly different pitch or frequency.
- Move along the route and listen for the strongest signal to trace the line.

SHUTDOWN & STORAGE

- When done, turn the water off and remove the Thumper.
- For storage, back the adjustment screw out until the spring sits loosely inside the Thumper.
- Store in a clean, dry place.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
No flow	Water supply off or low pressure / Clogged screen	Turn on water / Increase pressure / Clean screen
No pulse	Adjustment screw too tight / Insufficient pressure	Back adjustment screw out slightly / Increase water pressure
Pulse stops	Insufficient pressure / Air in line	Check pressure / Purge air / Readjust to a different pitch



IMPORTANT NOTES

- Do not overtighten or fully compress the spring.
- The piston only needs to be slightly unseated to allow water flow.
- Do not use with corrosive or contaminated fluids.
- Use within the specified pressure range (see Specification Sheet).
- Wear appropriate PPE and follow local regulations.
- Relieve pressure and disconnect before servicing.

