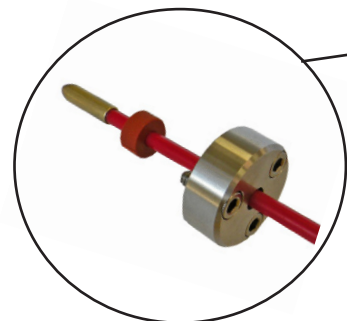




ADHESIVE

Read manufacturer's instructions before using adhesive. In case of eye contact, flush with water and seek medical attention. If skin contact occurs, apply solvent (such as nail polish remover) to area and gently remove adhesive. Wash solvent off with water. Solvents should not be used in case of contact with eyes or open wounds. Always wear safety goggles (ANSI Std. Z87.1) and gloves when working with adhesive and/or unprotected fiberglass rod. See adhesive product label for SDS.

1. Cut away damaged section(s) of rod with a fine-tooth hacksaw, cable cutter or sharp knife. With pipe cutter and/or sharp knife, strip red protective jacket back from fiberglass core approximately 1". Do not cut fiberglass core when stripping jacket. Do not crush fiberglass core.

2. Once jacket is removed, use pipe cutter again to score a mark around fiberglass core approximately 1/2" from edge of jacket. Use sharp knife to carefully strip away 1/2" of fiberglass core closest to rod end to expose copper wire. Be careful not to damage wire. The 1/2" portion of rod closest to jacket will remain intact (Fig.1).

3. Using sharp knife, strip away a flat spot on remaining 1/2" portion of fiberglass core approximately as deep as wire diameter (.025"). Cut exposed wire length to approximately 1/2" and lightly strip away thin coating on copper wire. Fold wire back along flat spot in fiberglass core (Fig. 2).

4. Attempt a test fit of replacement bullet tip over exposed fiberglass core with wire folded back. It should be firm and snug with little or no play to assure wire contacts inside of ferrule. If too loose, cut away rod end and repeat Steps 1-4.

5. Once proper fit is established, install bullet tip without adhesive and check for continuity of the internal copper wire using a digital multimeter. Touch a probe to bullet tip at each end of coiled rod. Any resistance reading (generally between 2-12 ohms) indicates proper continuity.

6. Remove bullet tip. Clean rod end and bullet tip with cleaning solvent or alcohol to remove debris and glass fibers. Allow solvent to completely evaporate. Step 6 is extremely important.

7. Mix and apply adhesive to entire surface of fiberglass core and wire. Insert rod into bullet tip as far as possible, enclosing end of red jacket in counterbore of ferrule. Wipe away excess adhesive.

8. Check rod again for continuity using digital multimeter. The adhesive remains workable for 20 minutes. If no continuity, remove ferrule, clean off adhesive and repeat steps 1-7.

Repaired rod should be allowed to cure 24 hours prior to use.

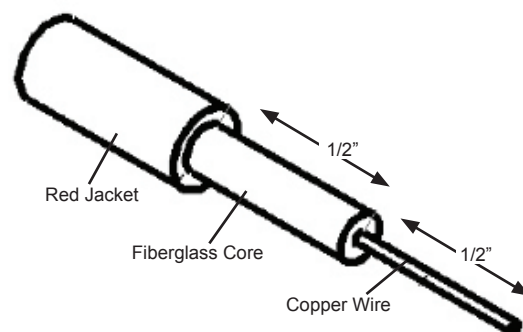


Fig. 1

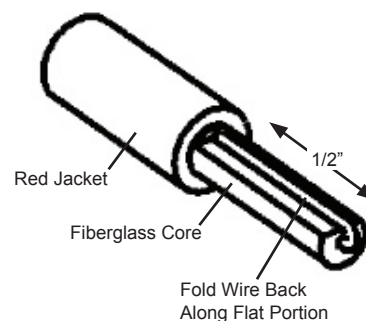
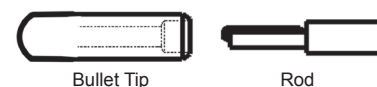


Fig. 2



Bullet Tip

Rod

3/16" OD Rod

Models:

15-316-100-WL

15-316-150-WL

15-316-200-WL

15-316-250-WL

15-316-300-WL



DANGER

Read and understand these operating and safety instructions before using or servicing this equipment.

Failure to follow instructions could result in an accident causing serious injury. Do not allow children or untrained personnel to use this equipment. Follow your company installation procedures.

NOTICE

The components of the Live Tracer system are specifically designed to work exclusively with each other.

The use of these components individually or in combination with other non-Jameson tools or accessories is not recommended and will not guarantee the safety or effectiveness of the system.

General Information

The Water Line Tracer Kit is used to trace the path of live non-metallic water lines from the customer's meter to the main water line. The kit utilizes a traceable fiberglass rod and a stuffing box to enable tracing. Small bullet tip guides rod from riser to lateral transition. Use any transmitter and receiver to non-invasively trace water line from above ground.



SAFETY FIRST



WARNING

Read entire instructions before attempting to use this tool. Failure to follow instructions could result in serious injury.



NOTICE

The components of the Water line Tracer system are specifically designed to work exclusively with each other. The use of these components individually or in combination with other non-Jameson tools or accessories is not recommended and will not guarantee the safety or effectiveness of the system.



Water Tracer Kit Includes:

Traceable Fiberglass Rodder

Unit has 3/16” diameter rod with permanent 1/4” diameter Bullet Tip, Rod has copper trace wire embedded in fiberglass core and is coated with polypropylene jacket for safety and durability.

Accessory Kit

Canvas Storage Bag, 3 Screws, 5 O-Rings, Rod Lubricant, Hex Key Driver, Adhesive, Replacement Bullet Tip

Stuffing Box

Designed with custom o-ring to provide seal when rod is inserted into pressurized lines for use up to 100 psi. Includes 5” pipe nipple with 3/4” NPT thread.



Replacement Accessories Available From Jameson	
15-SB	Stuffing Box with Six O-Rings
15-146-GW	Bullet Tip Repair Kit
15-170-GW	O-Ring, 12 Pack
15-WIPE	Lubricated Wipes
15-146-GW	Bullet Tip Repair Kit
15-146-GW-T	Tapered Bullet Tip Repair Kit
15-170-GW	O-Ring, 12 Pack

Required tools not included in this kit:
Transmitter and Receiver for locating
Wrenches, channel locks
Various pipe fittings (may be required to adapt 3/4” NPT to your specific riser)
Pipe dope
Teflon tape

Warranty

Jameson products carry a warranty against any defect in material and workmanship for a period of one year from date of shipment unless failure is due to misuse or improper application.

Jameson shall in no event be responsible or liable for modifications, alterations, misapplications or repairs made to its products by purchaser or others.

This warranty is limited to repair or replacement of the product and does not include reimbursement for shipping or other expenses incurred. Jameson disclaims any other express or implied warranty.

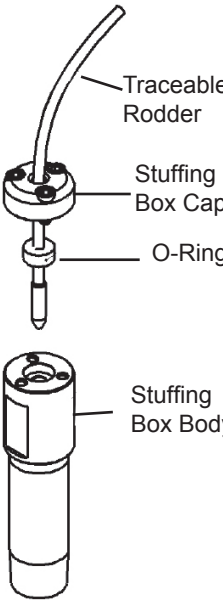
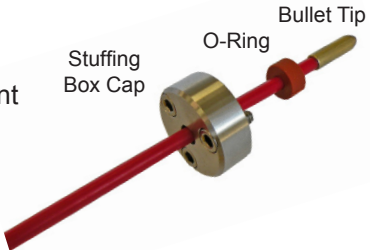
Water Tracer Kit Operation

Before Each Use:

Inspect O-ring. If O-Ring shows any sign of tearing, cracking or pitting, replace with a new O-ring. Inspect O-ring and replace if necessary BEFORE EVERY USE. Jameson O-rings are custom designed. Only Jameson-provided O-rings will guarantee proper safety and effectiveness.

Inspect rod: If any damage exists that has broken the surface of the rod, replace the rod. A scratched rod could cause leaking when the scratch passes through the Stuffing Box O-ring. Portions of rod can be cut away and a new end fitting attached if replacement of entire rod is not necessary.

1. Install Stuffing Box to connection point. Use Teflon tape or other sealing method as necessary. The Stuffing Box is equipped with a 3/4” NPT nipple. If your connection point has a different size thread, install the proper fitting(s) to adapt Stuffing Box to riser.
2. Remove cap and O-ring from Stuffing Box by removing the 3 screws with the enclosed hex wrench.
3. INSPECT O-RING. If O-Ring shows any sign of tearing, cracking or pitting, replace with new O-ring. Inspect and replace if necessary BEFORE EVERY USE. Jameson O-rings are custom designed. Only Jameson-provided O-rings will guarantee proper safety and effectiveness.
4. Install the Stuffing Box cap over tip of traceable rodder as shown.
5. Lubricate tip of rodder and inside O-ring with lubricated wipes provided. Install O-ring over rod.
6. Pay out approximately 15 ft. of rod from rodder. Insert tip of rod into Stuffing Box mounted to riser.
7. Secure Stuffing Box cap by completely tightening the 3 screws. (NOTE: It is critical to completely tighten all 3 screws to ensure proper seal).
8. Open valve at connection point. Check for safe working environment. If excessive leak is present, check o-ring and rod for damage. Replace as necessary.
9. Begin pushing rod into pipe. Grip rod with a lubricated wipe to continuously lubricate while pushing. Continue to push rod until it reaches main.
10. Attach transmitter lead to brass lug on edge of rodder canister. Follow manufacturer’s instructions for proper set-up of your transmitter. If possible, it is recommended to install ground spike at 90° from anticipated pipe path.
11. It is recommended to use a high frequency when tracing (i.e. 82kHz.) If you have a 1 W transmitter, use the highest frequency available. If you have a transmitter with a higher wattage than 1W, use the highest frequency below 45kHz. If this is unsuccessful, use the highest frequency available.



When Tracing Is Complete

Pull rod from pipe and feed back into canister. It may be helpful to periodically insert the rod a few feet while lubricating, then continue to pull rod out. This will help rod slide easier when removing. When tip of rod is pulled past riser valve, do not completely remove rod from Stuffing Box. Pulling rod tip past the O-ring when sealed can damage the O-ring. Close valve first, then remove cap from Stuffing Box. Slide O-ring off rod, then remove cap from rod. Remove Stuffing Box from riser, install O-ring and cap for storage.

NOTE: The Jameson traceable rodder has a copper wire that can be inserted underground. Jameson cannot guarantee successful tracing for every make and model transmitter under all soil and moisture conditions. If tracing is unsuccessful, try improving the depth of the ground spike or wetting the area around the ground spike.