



BIDDLE™ **Split-box Pipe** **and Cable Locator**

- Energized or de-energized lines tracing
- Conductive or inductive coupling
- Peak and null detection capabilities
- Hand-held and lightweight
- Solid construction in a tough, plastic housing

Split-box Pipe and Cable Locator

DESCRIPTION

The Biddle Split-box Pipe and Cable Locator is a hand-held instrument in the classic "split-box" design, consisting of a transmitter and a receiver. The instrument traces underground conductive networks such as water and gas mains, telephone, cable TV, and electric power cables. It determines buried lines depth and locates underground metallic masses such as valve caps and manhole covers.

Designed with patented super-inductive technology, the Split-box Pipe and Cable Locator is lightweight, portable, and easy to use. For easy transport, the instrument and accessories are supplied with a protective tote bag.

APPLICATIONS

To locate and trace an underground metallic line, the line is energized with a radio-frequency signal generated by the transmitter and then detected by the receiver. Inductive or conductive modes of operation are available.

The inductive operational mode does not require direct mechanical line connection. The transmitter can energize a buried line without the need to uncover it. Just place the transmitter on the ground or pavement above the line which, once induced with the transmitted signal, retransmits the signal through the ground and air in a pattern that corresponds to its path. The line carries the signal several hundred yards depending on its depth, the mineralization and conductivity of the soil, and the transmitter power setting.

The conductive mode of operation requires the line to be exposed so that a direct connection can be made. Conductive energizing is preferred over inductive energizing because it results in more highly defined signal coupling. The signal generated does not spread to other conductive lines in the vicinity of the traced line. Using a ground rod with the direct connection increases the energizing efficiency and, therefore, the length of line that can be traced.

Two methods of receiving the transmitted signal are peak detection and null detection. The method used depends on the placement of the receiver. When held at a right angle to the surface of the ground and moved back and forth across the line to be traced, the receiver detects peaks (maximum signals) when directly above the line. When the receiver is held so its face is parallel to the surface of the ground and moved back and forth across the line, the detection of minimum signal or null (absence of signal) indicates that the line is directly below.

FEATURES AND BENEFITS

- **Lightweight and portable** — half the physical size of Standard Split-Box Pipe and Cable Locator
- **Virtually Indestructible** — long lasting and can withstand tough field environments
- **Built-in mass locator** — same Instrument can locate cables, pipes, manhole covers, and valve caps

SPECIFICATIONS

- Output Frequency**
126 kHz
- Batteries**
4 each “C” Size Alkaline Batteries for transmitter and receiver
- Battery Life**
50 Hours
- Audio Output**
Built-In speaker and headphone jack
- Sensitivity**
Manual Signal Adjust
- Operating Temperature**
-5°F to 158°F (-20°C to 70°C)

Dimensions

- Transmitter**
6.5 H x 2.375 W x 8.5 D in.
(165 H x 60 W x 215 D mm)
- Receiver**
6.5 H x 2.375 W x 8.5 D in.
(165 H x 60 W x 215 D mm)
- Weight**
Transmitter 2.5 lb (1.1 kg)
Receiver 2.5 lb (1.1 kg)

ORDERING INFORMATION

Item	Catalog No.
Split-box Pipe and Cable Locator	656902
Included Accessories	
Batteries (4 ea.)	19111
Protective tote bag	656920-1
Direct connection cable, 3 ft	656920-2
Ground rod	656920-3
Instruction manual	AVTM656902
Optional Accessories	
Induction clamp	656626
Mini Headset	656920-4
Large carrying case (holds Induction clamp and larger direct connection cable)	656920-5
Direct connection cable, 6 ft.	656920-6
Receiver carrying strap	656920-7



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