

# Quick-Start Instructions

## Ultra-Trac MJL (Metallic Joint Locator)

### User Interface

MJL has three Buttons.

1. Power – A: To activate/deactivate product
2. Tick – B: To adjust tick speed for easier detection
3. Zero – C: To adjust for environmental conditions

### Operation

To activate instrument push the POWER button. Early models have additional switch left side handle to eliminate unnecessary power consumption while turned off. The following warm-up sequence will occur:

1. Warm-up sequence (a-h) with info below.
  - a. Logo
  - b. System Check
  - c. Working display will illuminate (backlight is on continuously)
2. Allow the instrument to stabilize for 20 seconds
  - a. The display will show maximum reading of 5700 (this is a millivolt reading converted by the microprocessor)
  - b. The tick will remain full signal
  - c. When stable the tick will be at a ticking rate of 2-3 ticks per second and the display reading will be between 1400-4000.
  - d. If the display is not reading in this range turn the instrument off and restart (older units) or press and release the ZERO (C) button and allow zeroing.
  - e. Wave the test coil approximately 4 feet above the entire length of the instrument to confirm sensitivity.

### NOTE: For best results, observe the digital readings on the display

3. Slowly walk and roll instrument over the top of the pipe to be tested.
  - a. When a feature is detected ahead of the front wheels the signal will decrease.
  - b. Continue moving forward. The signal will begin to increase when the feature is between the front and rear wheels.
  - c. Continue forward to the largest signal increase. This is near the front edge of the rear wheels.
4. Confirm location by performing the same test from the opposite direction.
5. For unmarked piping turning the detector 90 degrees may help in locating the pipe.
6. If the tick is very strong pressing the (B) button will reset the tick speed to help locate the area of the feature. After resetting allow 10 seconds before continuing.
7. The location of the feature will be in the area between the bi-directional testing.
8. The graph on the display will change with signal strength.



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