

# Transducer Track Installation Guide - V-Mount method

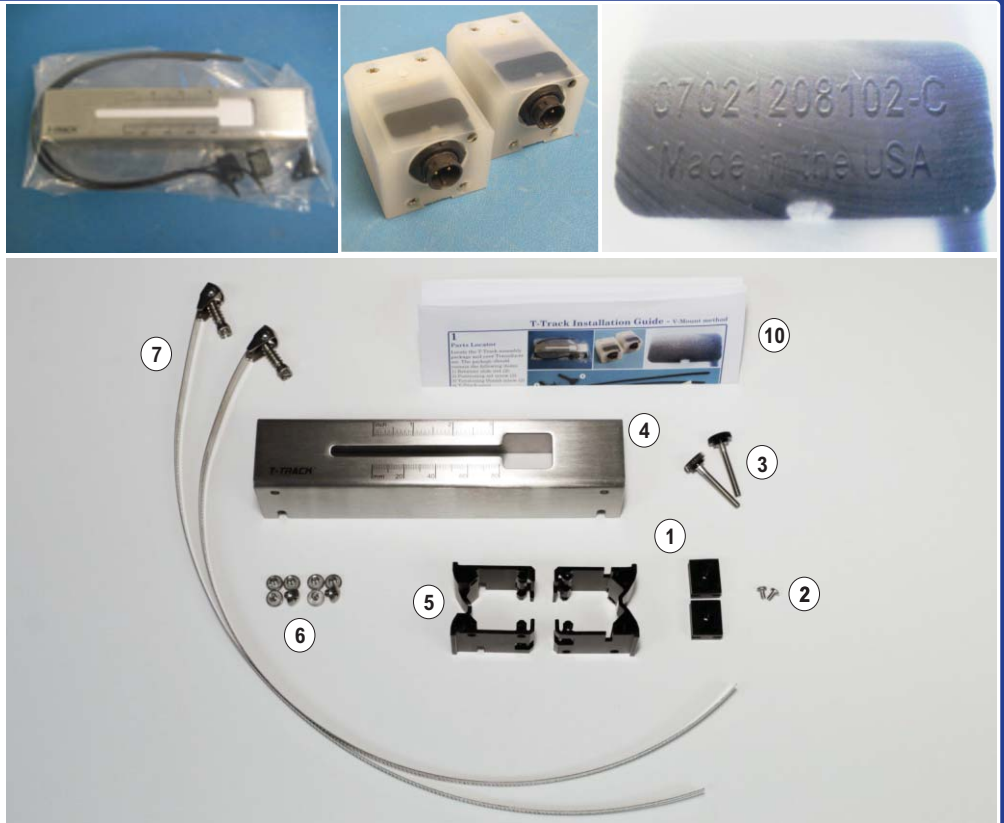
## 1

### Parts Locator

Locate the T-Track assembly package and your Transducer set. The package should contain the following items:

- 1) Retainer slide nut (2)
- 2) Positioning set screw (2)
- 3) Tensioning thumb screw (2)
- 4) T-Track cover
- 5) V-Block (2)
- 6) V-Block screws (8)
- 7) Pipe clamp (2)
- 8) Pipe clamp screws (2)
- 9) Pipe clamp wrench (1)
- 10) Installation Guide (1)

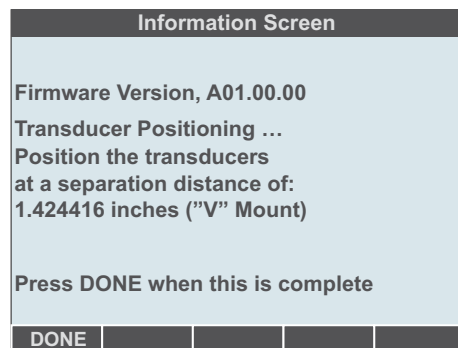
Note the serial number location on the transducer.



## 2

### Determine Separation Distance

If not already done, configure the meter for the pipe application. The meter's display screen will display the transducer separation distance.

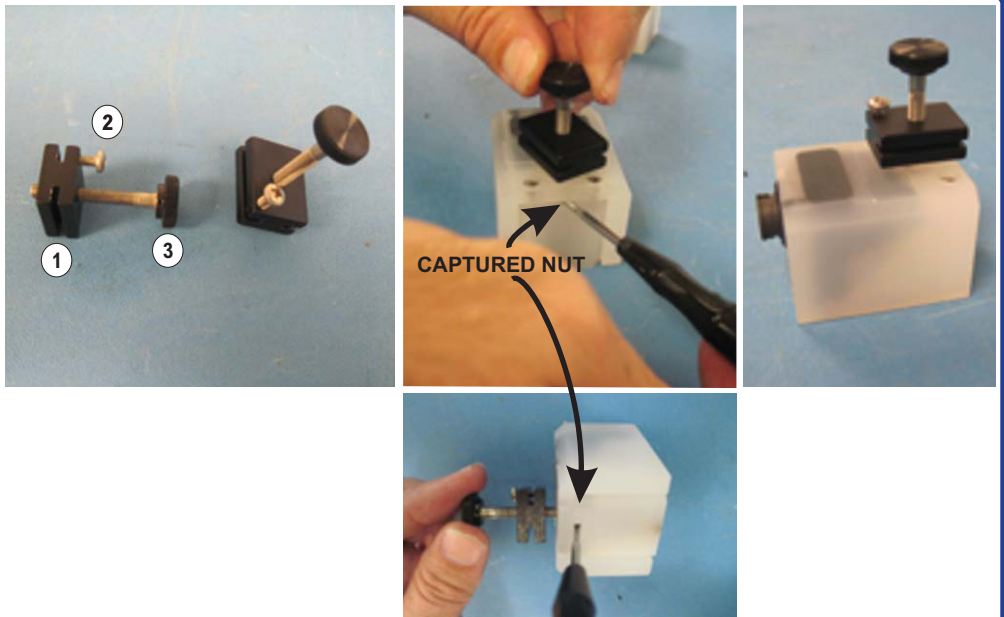


## 3

### Install Retainer Slide Nut Assembly

Install the **Positioning Set Screws** (2) and the **Tensioning Thumb Screws** (3) into the **Retainer Slide Nuts** (1).

There is a captured nut located inside transducer housing. While holding the captured nut with a small screwdriver, thread the thumb screw into the captured nut. Do not over-tighten.



## 4

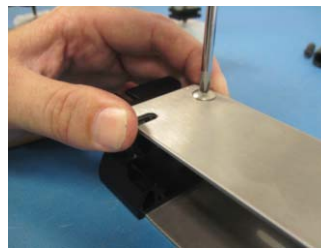
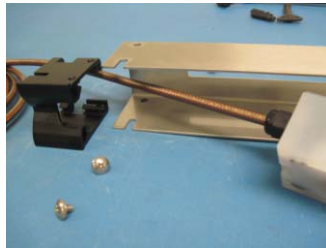
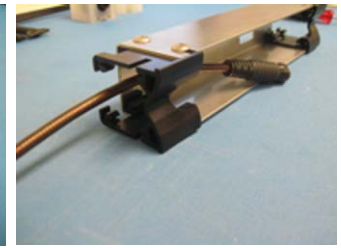
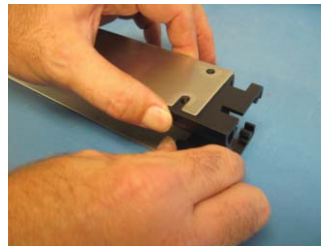
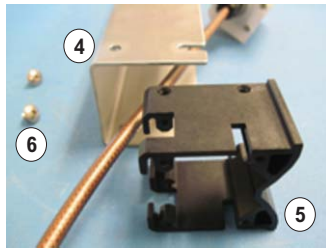
### Install the V-Blocks

Position the transducer cable through the **V-Block** (5).

Install the V-Block into the **T-Track Cover** (4).

Install the 4 **V-Block Screws** (6).

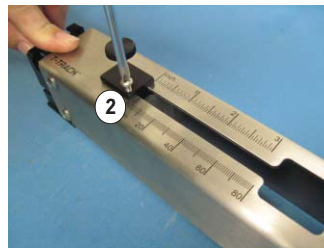
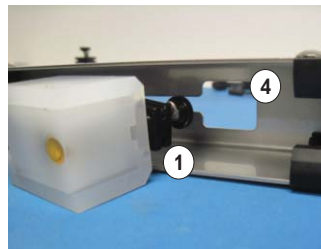
Repeat this process for the second **V-Block**.



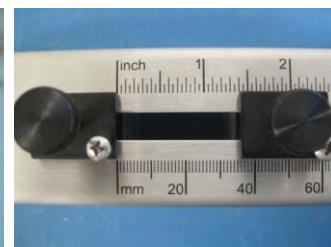
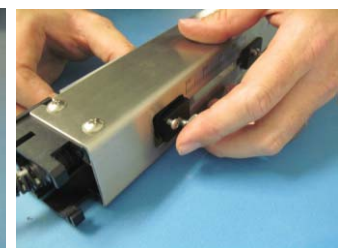
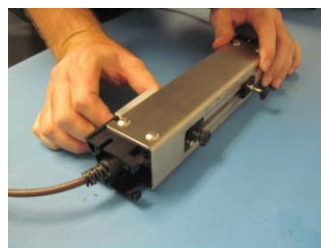
## 5

### Install and Position the Transducers in the T-Track

Insert the first transducer's **Retainer Slide Nut** (1) through the square opening in the underside of the **T-Track Cover** (4). Align the grooves in the **Slide Nut** with the slot in the **T-Track Cover**. Slide the transducer assembly over to the zero position and lock in place with the **Positioning Set Screw** (2).



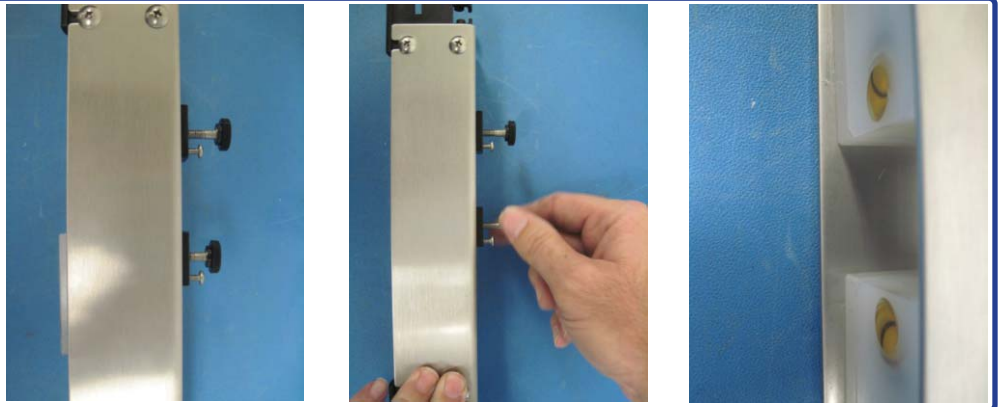
Insert the second transducer's **Retainer Slide Nut** (1) through the square opening in the underside of the **T-Track Cover** (4). Align the grooves in the **Slide Nut** with the slot in the **T-Track Cover**. Slide the transducer assembly over to the correct separation distance position (see step 2) and lock in place with the **Positioning Set Screw** (2).



## 6

### Adjust the Tensioning Thumb Screws

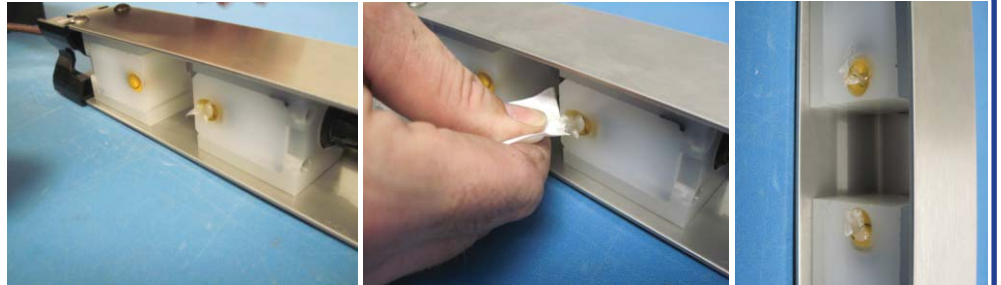
Adjust the **Tensioning Thumb Screws** (2) counter-clockwise so that the transducers are fully inside the **T-Track Cover** (4) as shown.



## 7

### Apply Acoustic Coupling Material

An acoustic coupling material must be placed between the transducer and the pipe surface at the point where the sound waves enter the pipe. Place a drop of DOW 111 grease or the permanent Blue Gasket pad on the oval shape waveguide.



**DOW 111 Silicone Grease**

*or*

**BLUE GASKET - Permanent installations. Recommended for metal pipes.**



**TRANSDUCER  
BOTTOM VIEW**

## 8

### Install the Pipe Clamps

Attach **strap clamps** (7) to pipe. Thread strap through ratchet mechanism and tighten loosely.

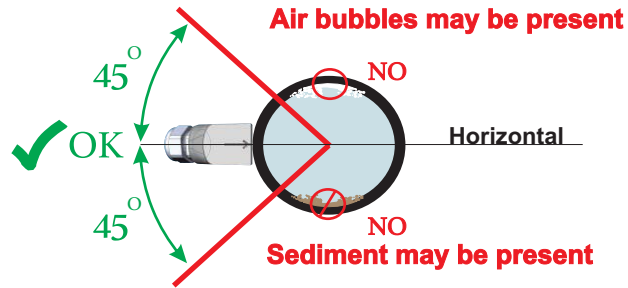




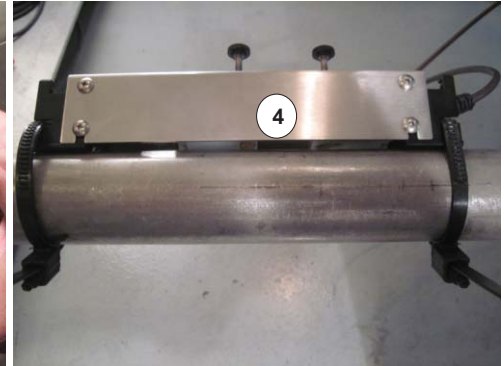
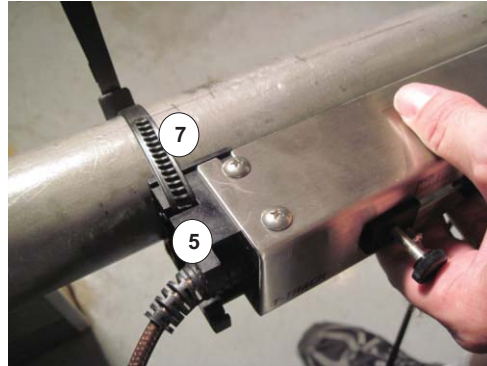
# 9

## Install the T-Track on the Pipe

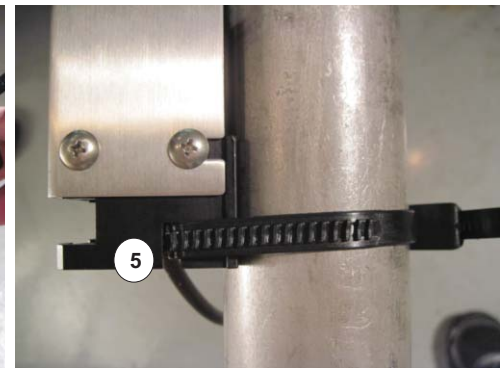
Position the T-Track on the side of the pipe - do not install on the top or bottom of the pipe.



Insert the first **Pipe Clamp** (7) into the slot in the **V-Block** (5) and tighten. Ensure the transducers are fully adjusted up into the **T-Track Cover** (4).



Insert the second **Pipe Clamp** (7) into the slot in the **V-Block** (5) on the other side of the **T-Track** and tighten.

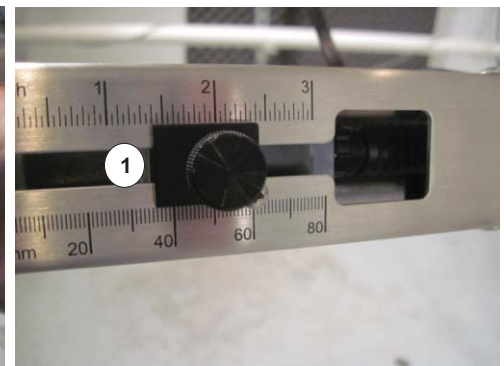


Tighten both clamps securely. Do not over-tighten.

# 10

## Tension the Transducers against the Pipe Surface

Tighten the **Tensioning Thumb Screws** (3) by turning clockwise.



Confirm that the **Retainer Slide Nuts** (1) are positioned so that the distance between the slide nuts is equal to the correct separation distance per step 2.

