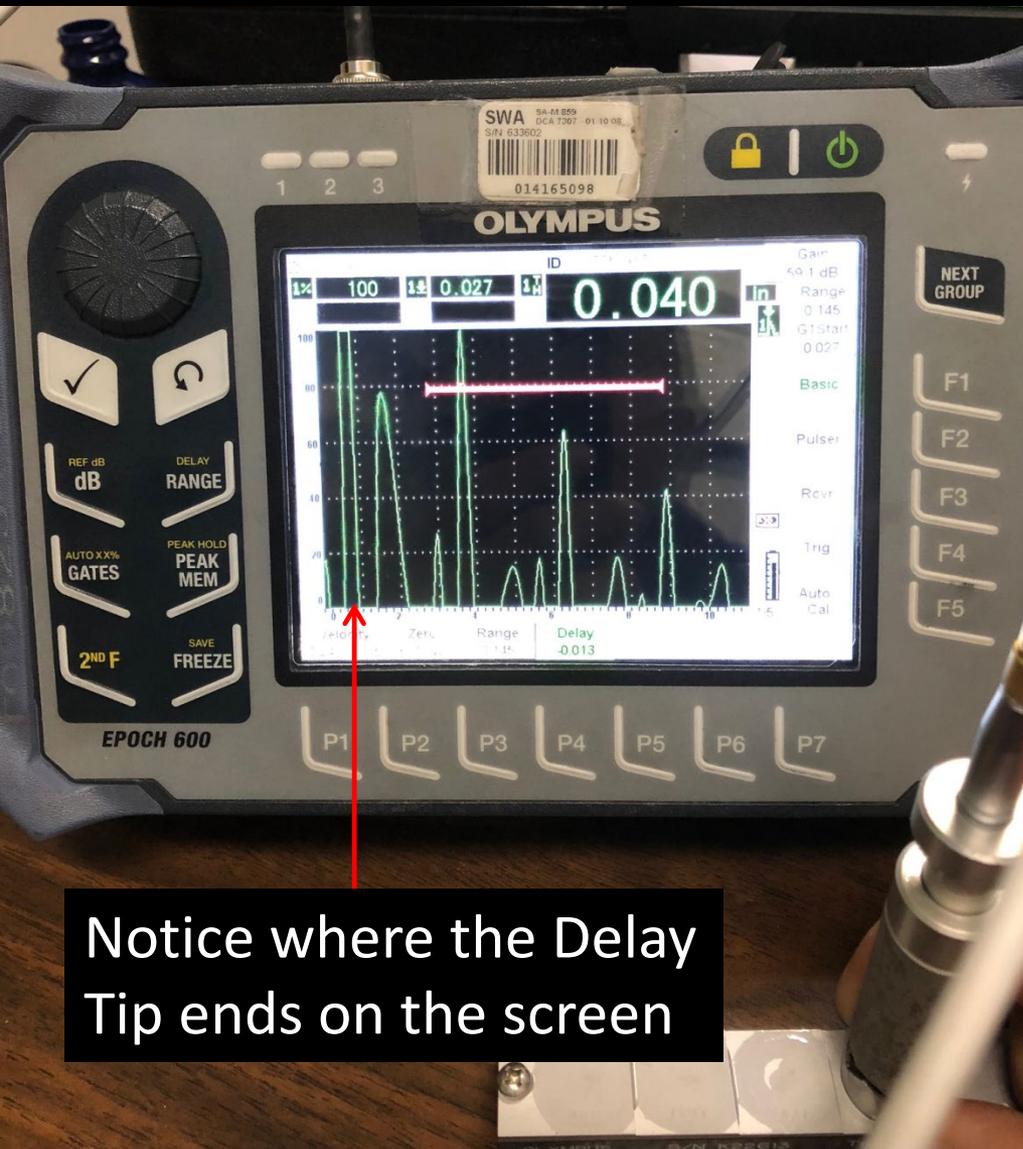


13 75
 74 74
 65 67
 58 56 63
 76 53
 55 52
 50 50
 55 56
 66 66
 72 73 73
 76 75 74
 76 79

.078	.075	.074	.067	.063	.053	.054	.056	.066	.073	.074	.077		
.079	.075	.074	.067	.056					.073	.075	.076	.079	.079
.077	.073	.074	.065	.058	.046	.045	.050	.066	.073	.076	.076		

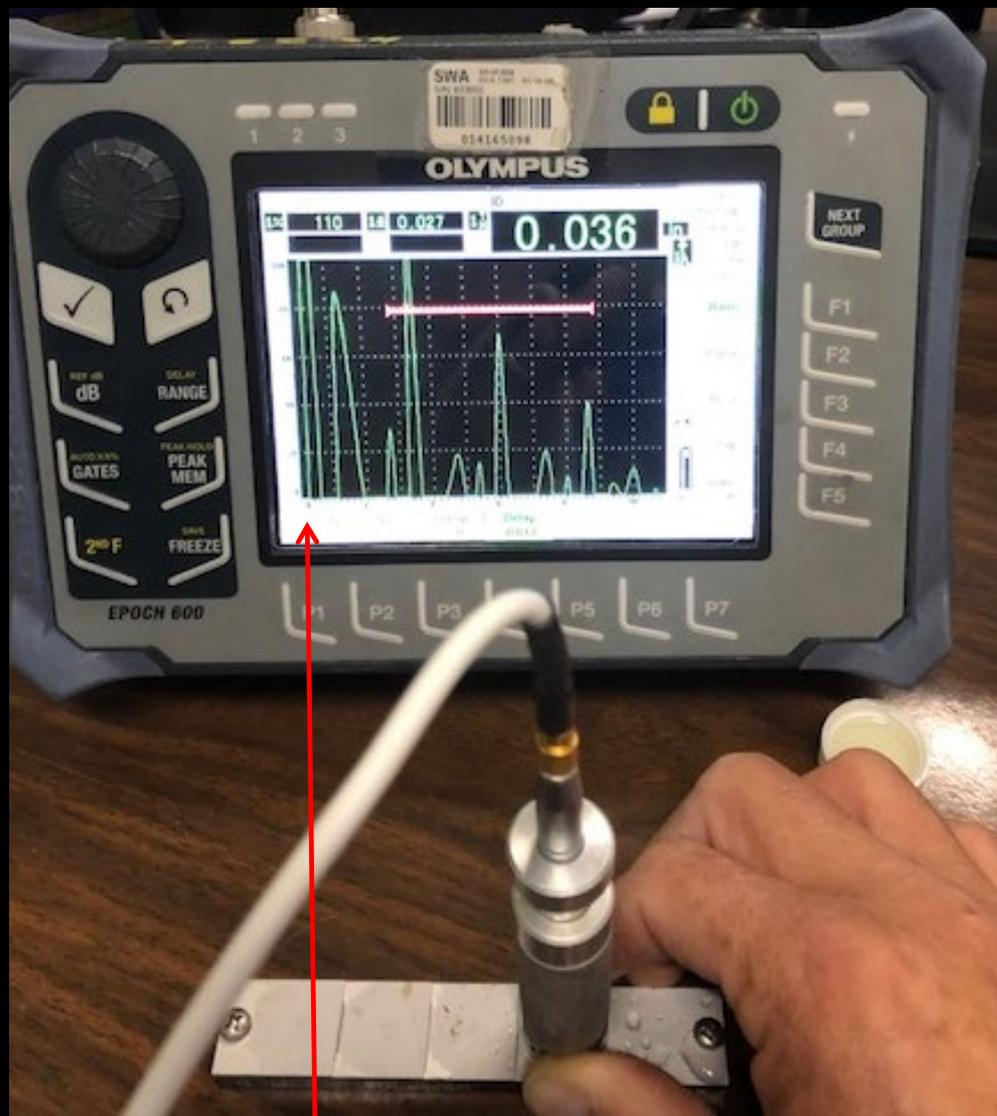


Room Temperature Calibration

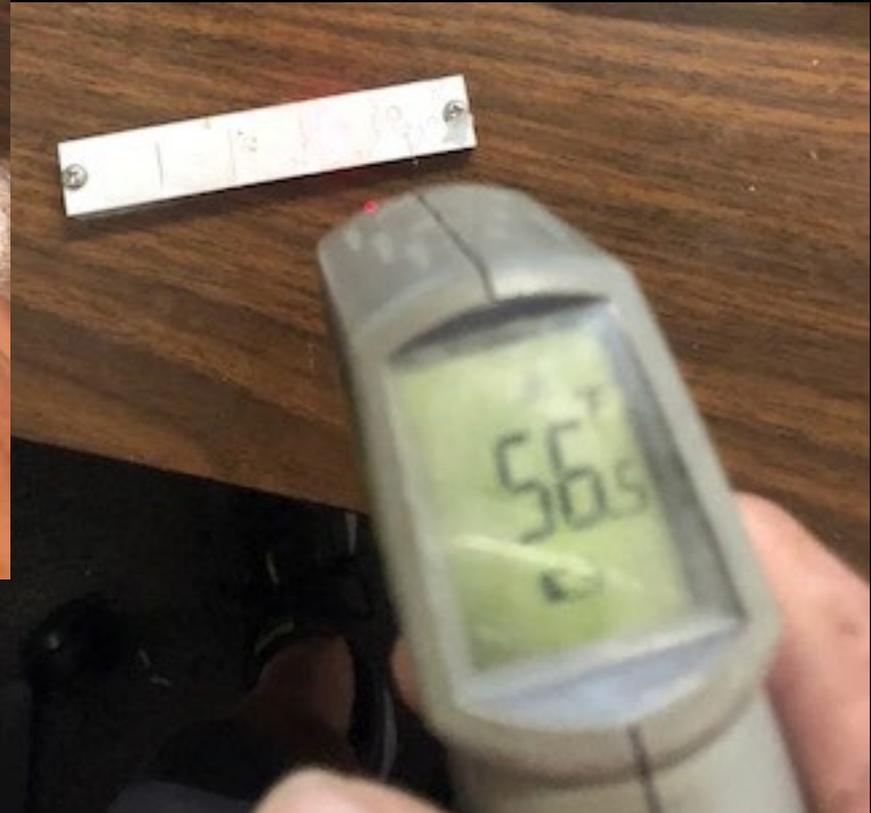
Notice where the Delay Tip ends on the screen



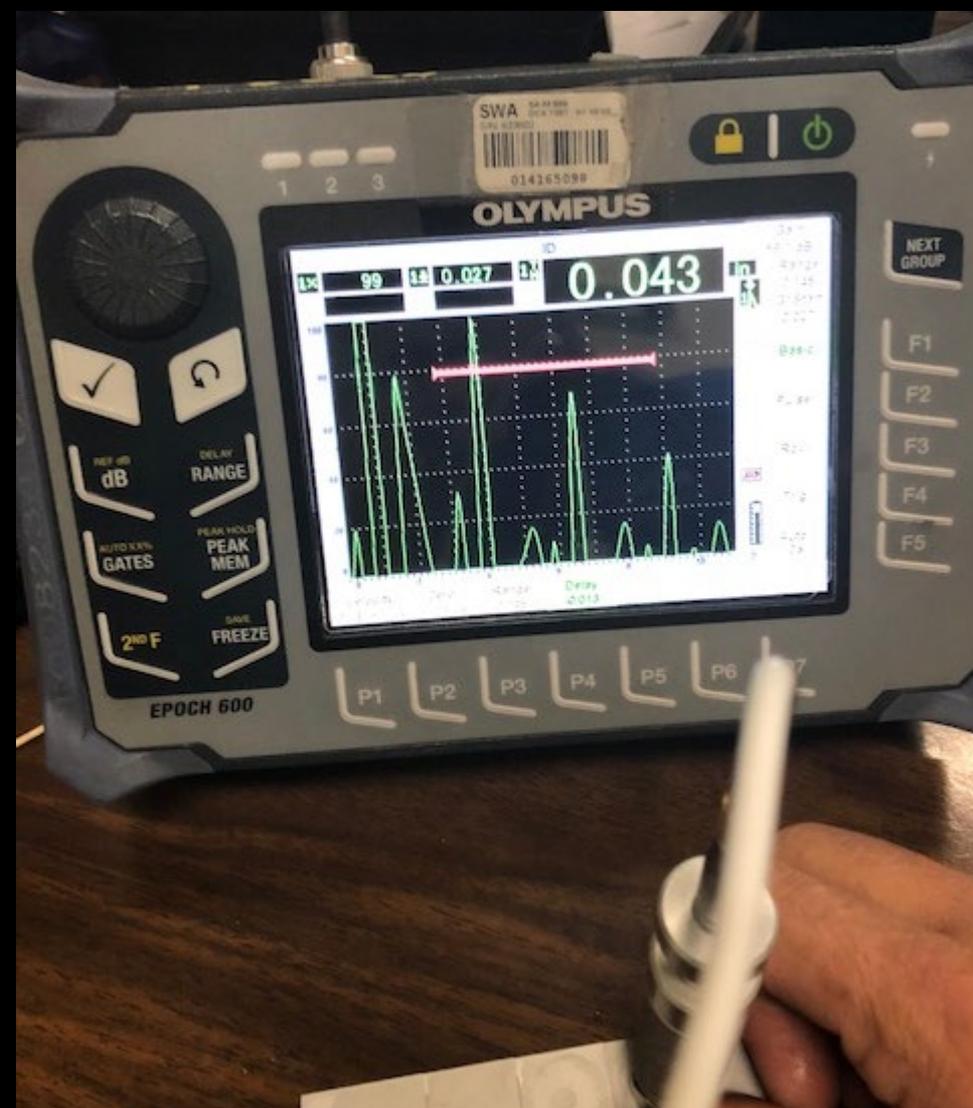
Calibration Block Cool



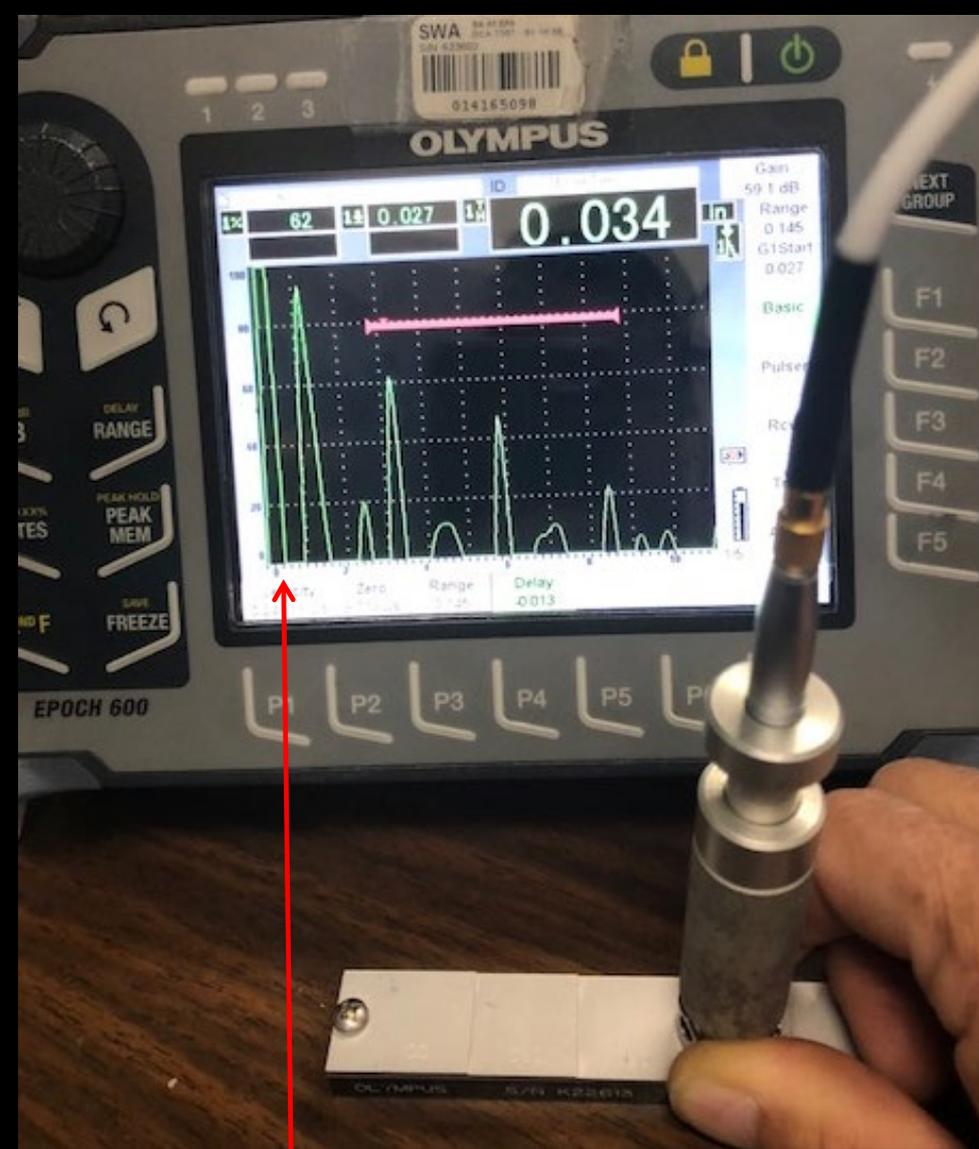
Notice where the Delay Tip ends on the screen when COOL. It has moved slightly left of calibrated.



Calibration Block Warm



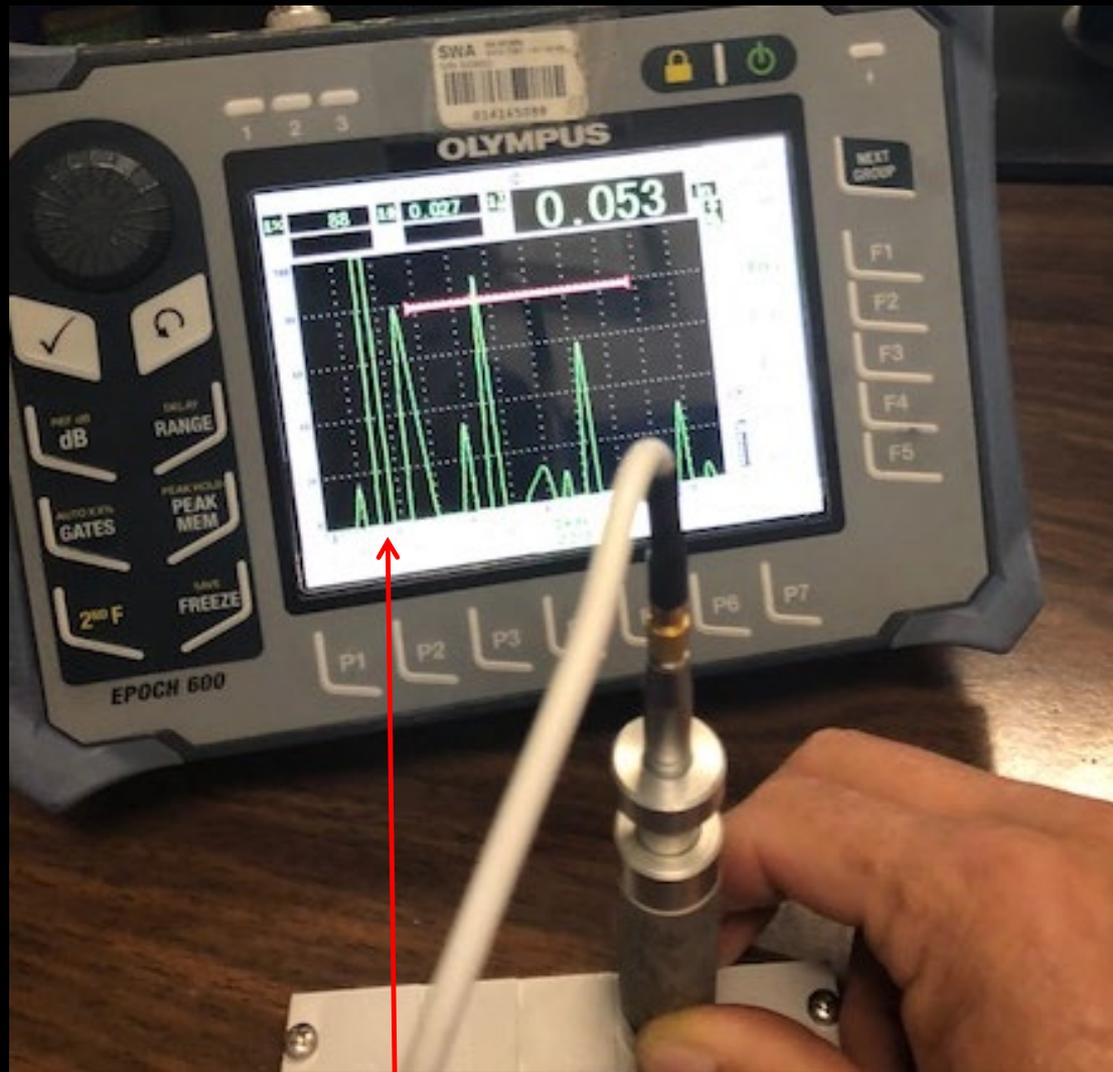
Notice where the Delay Tip ends on the screen when WARM. It has moved slightly right of calibrated.



Tip Cold



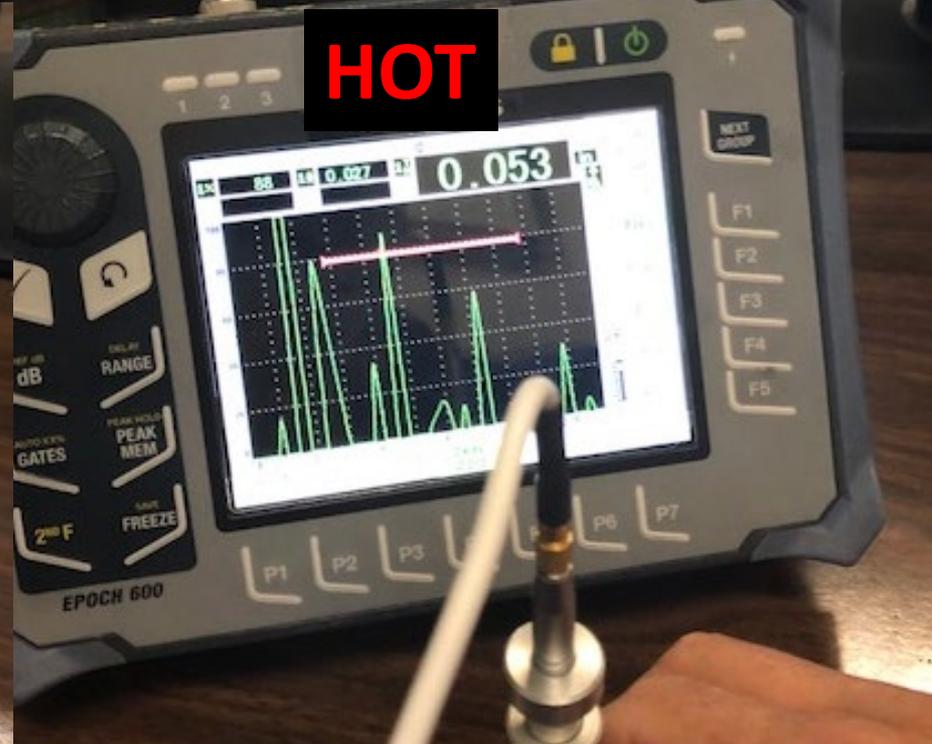
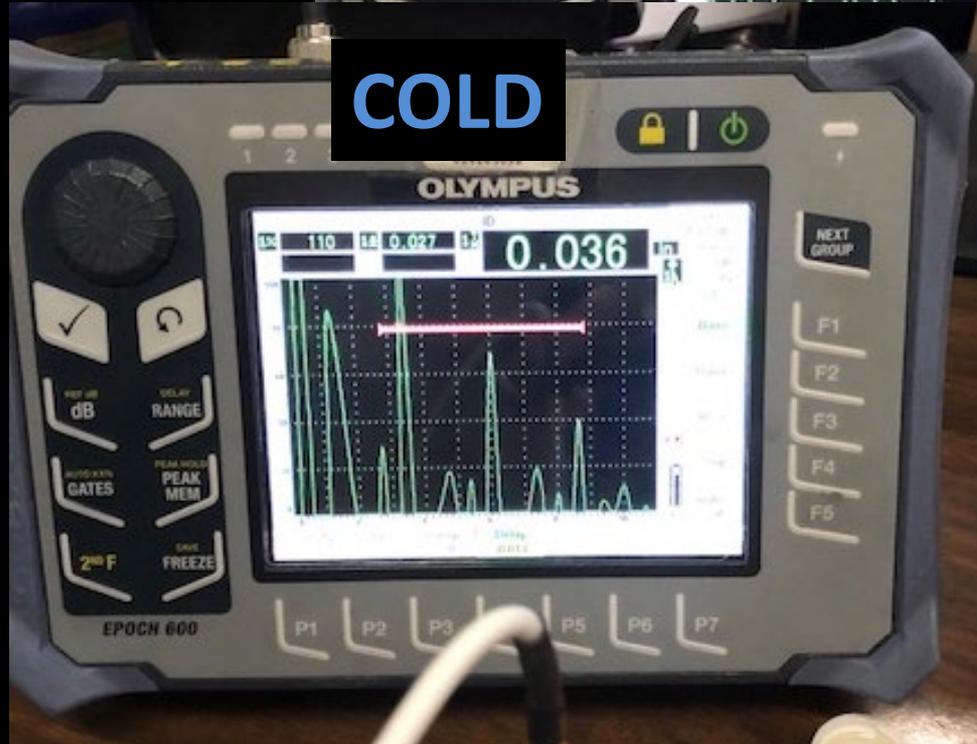
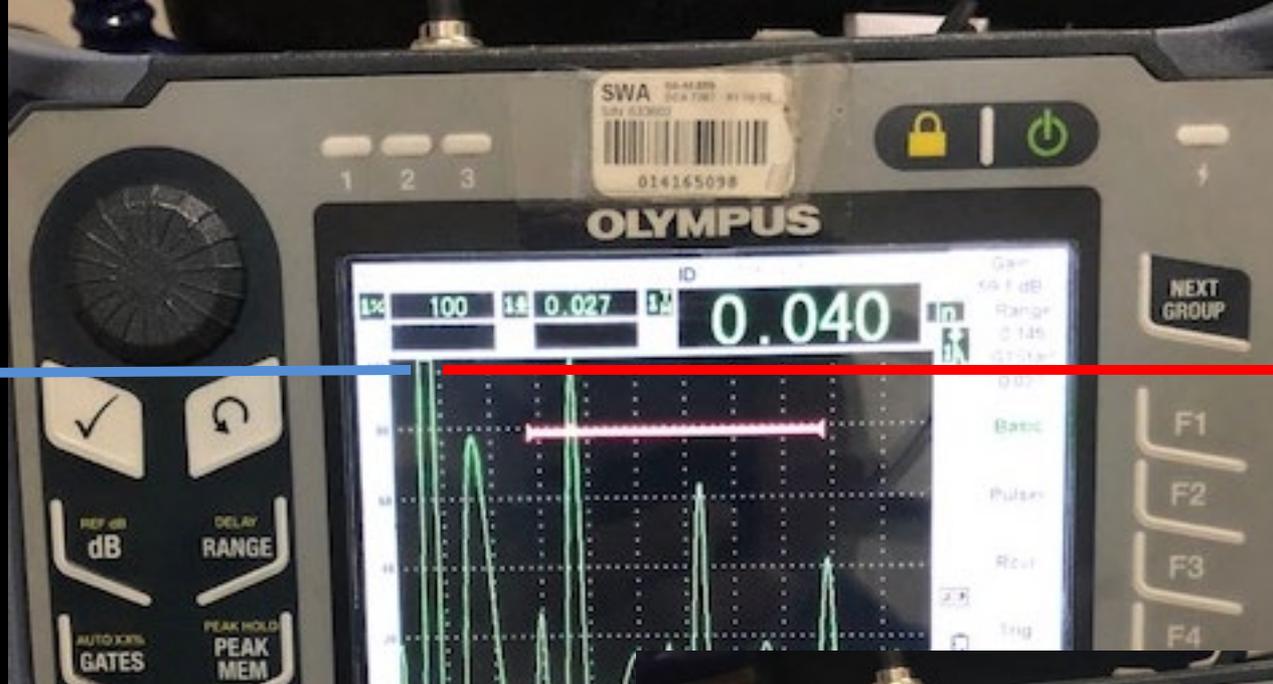
Notice where the Delay Tip ends on the screen when COLD. It has moved a lot to the left of calibrated.



Tip Hotter



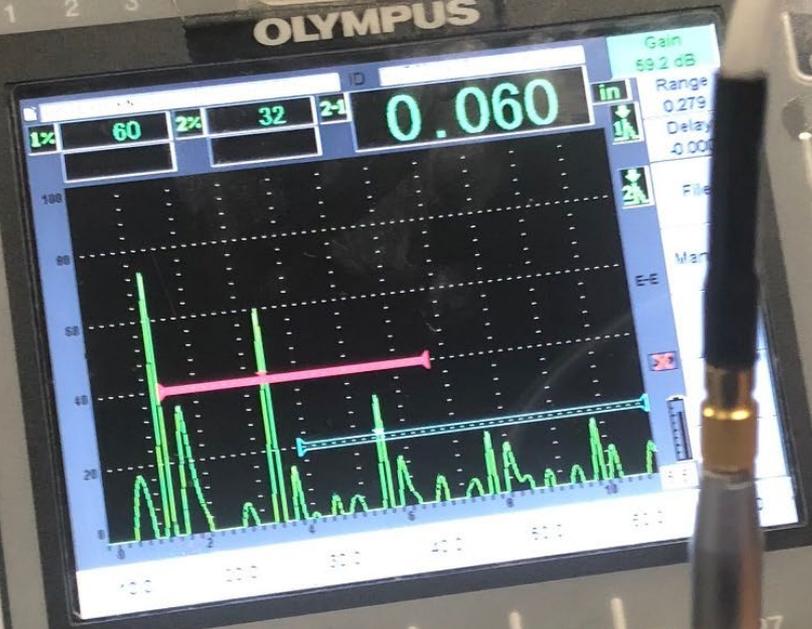
Notice where the Delay Tip ends on the screen when COLD. It has moved a lot to the right of calibrated.



OLYMPUS

S/N 633602
014165098

1 2 3



✓ ↺

REF dB
dB

AUTO XX%
GATES

2ND F

DELAY
RANGE

PEAK HOLD
PEAK MEM

SAVE
FREEZE

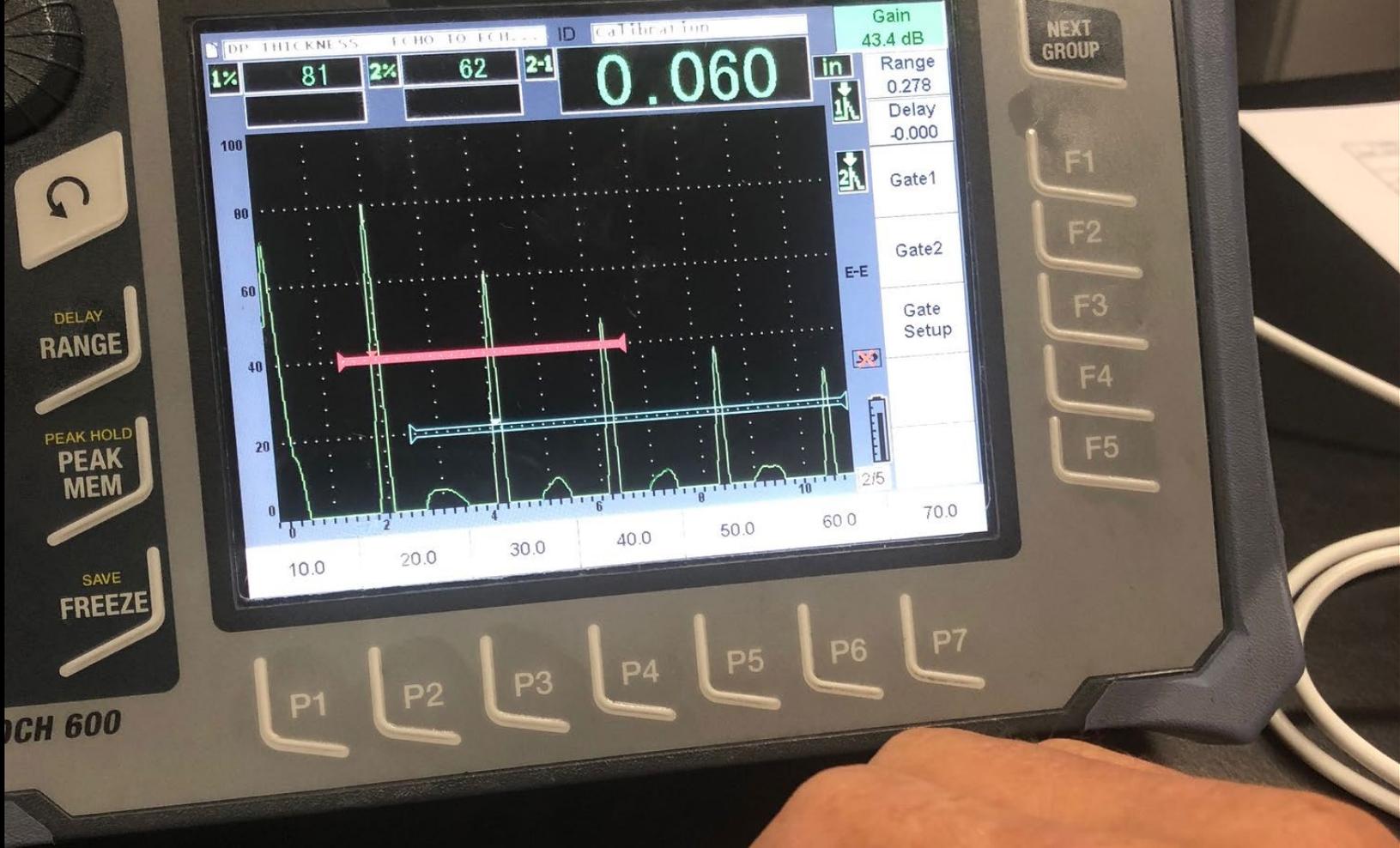
EPOCH 600

NEXT GROUP

F1
F2
F3
F4
F5

P1 P2 P3 P4 P5 P6 P7





DCH 600

Key Takeaways

- **As the delay tip gets hotter or colder from the temperature during calibration the sound velocity within the tip changes.**
- **To prevent this issue causing measurement inaccuracy, allow the tip time to match the temperature of the part you plan to inspect before you calibrate.**
- **Another option is to use “Echo to Echo” measurements. This eliminates the tip in the distance equation.**

Question or additional input: