



HS
CALIBRATION
HS-CAL-A



EFFECTIVE: 2002-11-11
SUPERCEDES: 1990-12-10

SYSTEM CALIBRATION INSTRUCTIONS - STEARNS HS METAL DETECTOR

To calibrate the unit, the following steps should be followed:

- A) Adjust the oscillator control until the highest possible output (left hand meter) level is attained.
- B) Adjust the driver control for a 250 or an optimum output level.
- C) Adjust the C-3 control (down in the lower right cabinet corner) for the highest possible receive level (the right hand meter).
- 0) Adjust the sensor head for a 1.00 (or 0.35 if the receiver card has a transformer mounted just above the sensitivity control).

This is done by:

- 1) Center the top portion of the sensor squarely on top of the spacer blocks.
 - 2) Tighten the 4 bolts finger tight.
 - 3) Lightly tap on the sides of the top portion of the sensor¹ moving it either in the direction of product flow or against it, until approximately 1.00 (0.35) is read on the receiver meter.
 - 4) Tighten the bolts 1/8 turn tighter.
 - 5) Slightly tighten or loosen on the bolts until the receive level reads as close to 1.00 (0.35) as possible. NOTE: Two of the bolts will cause the receive level to go up and two will cause it to go down, when they are tightened.
- E) Set the sensitivity control to detect the test wand, or your test sample.