

# LARSON SYSTEMS RP2 RETRACTABLE PROBE HOLDER INSTRUCTION SHEET

060-1000-0063-00

## Unpacking

Included in the carton should be the following items:

- This Instruction Sheet
- One fully assembled RP2 Retractable Probe Holder

The RP2 Retractable Probe Holder requires:

- 1) Air supply of 50 – 100PSI
- 2) A Larson Systems Gage with Read Switch

The RP2 is not recommended for use when coiling powder coated wire.

## Mounting the Probe

Mount the mounting bar to the face of the coiler so the probe, when extended, will be positioned to measure the spring. Allow clearance for the clamping system around tooling etc. When the read switch triggers the gage, the gage will measure the spring and then retract the probe. The time between the read switch trigger and the start of probe retraction is about 10mS. This will cause the probe to seem to retract at the same time as the read switch trigger but it does not.

Because the probe retracts only 10mS after being triggered, probe retraction may *appear* to be simultaneous with the read switch trigger.

## Electrical Connection

There is a Bendix type, 2 pin connector for connecting the read switch to the control box, and a 6' (2m) cable that connects to any Larson Systems gage READ connector. Connect the read switch on the coiler to the 2 pin Bendix connector on the RP2 control box, and connect the cable coming from the control box to the READ connector on the back of the gage.

## Air Connection

The RP2 Retractable Probe Holder comes with a  $\frac{1}{4}$ " push type fitting for air supply. Push a  $\frac{1}{4}$ " piece of plastic air supply tube into the fitting, and connect to shop air supply. The RP2 Retractable Probe Holder operates on air pressures from 50-100PSI.

## Adjusting Retraction Time and Speed

The retraction time is adjusted with the knob on the front of the control box. This retraction adjusts from 0.1S (knob all the way counterclockwise) to 1.1sec (knob all the way clockwise). The speed of retraction and extension can be adjusted with the regulator on the air solenoid, or the flow control screws on the side of the air cylinder. The screws closest to the center of the cylinder are for cushion control, and the screws on the outside of the cylinder are for speed control. Set these to allow your system to operate at full speed with minimum vibration with maximum cushioning.

## Manual Retraction

A switch labeled OPERATE and RETRACT allows the operator to manually retract the probe during setup adjustments.

The manual retract switch must be in the OPERATE position during operation.