

INSTRUCTIONS FOR ESTABLISHING SHEILDED GROUND IN REMOTE SENSOR CABLE

To ensure proper grounding for your new remote sensor, your remote sensor cables may need a minor upgrade. This instruction sheet is for our customers who need to perform field upgrades on their remote sensor cabling.

The cable has a braided wire shield just under the black vinyl insulation. This shielding must make contact with the metal hoods on either end of the cable for proper grounding. Review the following instructions before starting and give us a call if you run into trouble at 304-497-2756.

1) Disassemble Metal Hood:

- a) *Take note of how the hood comes apart to aid in putting it back together*
- b) Unscrew the black plastic collet on the rear of the metal hood and slide back along the length of the cable a few inches.
- c) At this point, the cable end can be inspected for proper grounding. Certain cables will be properly grounded and, if so, the collet can be screwed back on and no upgrade is necessary. A properly grounded cable will have about a quarter inch of wire shielding folded back over the vinyl insulation and making contact with the hood near the rear of the hood where the collet clamps it to the cable. If the shielding is not visible or if it is trimmed short, proceed to the next step.
- d) The hood consists of two shells that fit together and snap into place. The snap tabs (2 on each side) can be seen on either side of the shell. Slip a utility razor or similar between the shells and release the snap tabs. Once both sides are released, the top shell will come off. If the side tabs of the top hood get bent outward during this step, gently bend them back into shape by pinching the shell on the sides.
- e) Remove top and bottom shells. Note the two long tabs folded inward on the bottom shell. These hold the wire in place during reassembly.

2) Modify wire:

- a) Remove about a quarter inch of the black vinyl insulation. Fry out the wire shielding and fold back over cable. During reassembly, the metal hood will clamp the wire shielding and provide proper grounding

3) Reassemble Hood:

- a) The bottom shell is the one with the two long thin metal tabs that fold inward. Place this one on the connector first (the first shell can be put on either side of the connector).
- b) Fold the two thin metal tabs inward to secure the ribbon wire in place.
- c) Note that the top and bottom shells have a lip on the front edge that fits on the rim of the connector. Place top shell on at an angle, front edge/lip first, so that the sides of the top shell go over the sides of the bottom shell. Once the lip of the top

shell is seated on the rim of the connector, the top shell can be “folded” over on to the bottom shell. The two screws in the top shell must be aligned with the two holes in the bottom shell before snapping the two shells together. If the two shells resist snapping together, check the two screws. If they are not free to move in the bottom shells holes, the shells will not snap together.

- d) Once shells are snapped together, slide the cable in or out of the hood until the wire braiding (folded back over the vinyl) is between the threaded area of the two hoods (where the collet threads on).
- e) Rethread the collet onto the hood until tight against the hood.