

Tracer AVi

ESD Grounding Update

Product: Tracer AVi

Issue: Display is unresponsive and requires a power cycle to restore operation

Cause: Cables do not have adequate shield grounding to the Tracer AVi and the remote display

Solution: Installation of a new shielded cable and grounding clamps

The Tracer AVi does not adequately prevent high frequency electrostatic discharge (ESD) which can cause device to lock up.



Manuals can be viewed or downloaded from the Rice Lake Weighing Systems website at www.ricelake.com/manuals



Electrostatic sensitive device, observe handling precautions to prevent shock or damage caused from ESD.

Use parts listed from the Tracer AVi Cable Kit (PN 197225) and follow the shield grounding procedure to prevent the ESD issue.

Required Parts

Part No.	Description	Qty
104872	Cable Assembly, Remote Display	1
53075	Clamp, Ground Cable Shield Small, Radius 0.078"	4

Table 1. Parts List for Cable Kit (PN 197225)

Grounding Procedure

1. Power down Tracer AVi and disconnect from power source.
2. Remove the existing remote display cable and replace with the new shielded remote display cable (PN 104872).
3. Ground the shield of the display cable (PN 104872) to the back of the Tracer AVi unit using a small shield ground clamp (PN 53075) and the screw near the right edge of the unit. The clamp must be fully contacting the exposed shielding of the cable.



The small shield ground clamp has a smaller radius and must be used with the shielded remote display cable for proper grounding.



Figure 1. Tracer AVi Unit Back

4. Carefully strip back 9 inches of the outer jacket from the connector of the load cell cable.
5. Ground the load cell cable to the back of the Tracer AVi unit using a small shield ground clamp (PN 53075). Secure the clamp using the screw near the left edge of the unit and ensure the clamp is fully contacting the exposed shielding of the cable.

6. Ground the opposite end of the shielded remote display cable (PN 104872) to the back of the RD-2 using a small shield ground clamp (PN 53075) and one of the existing backplate nuts. The clamp must be fully contacting the exposed shielding of the cable.

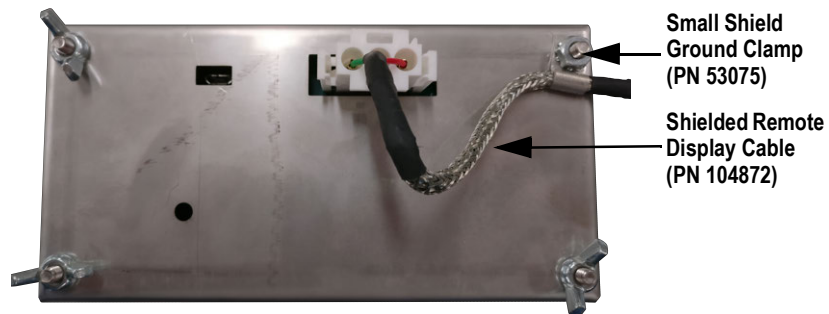


Figure 2. RD-2 Back



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