Customer Service Bulletin SD800005
Cable Issues in SLF20050/C3 Antenna Couplers

Continual Improvement is a cornerstone of the Southern Avionics Company Quality Management System. We issue Customer Service Bulletins to inform our valued customers of product upgrades and/or helpful technical information that may enhance the reliability of your equipment.

We have recently found two coupler cable issues that could affect long-term antenna coupler operation and overall NDB system availabiltiy:

1. Wire 12 connects the Primary finish wire from T1's Impedance Matching Transformer to A1P2's jack on the Antenna Current Meter board SLP41801. The center conductor of a coaxial cable is connected to the Primary Finish wire by solder connection and covered by heat shrink tubing. To prevent a possible short, we have implemented a wire stripping procedure to insure all strands from the shield wire are separated from the area of the center conductor by 2 inches.
2. In an older PC1000C/3 ATU design, prior to Forward and Reflected Power measurement capabilities at the ATU's front panel, we have received one field report of arcing between the coupler tuning coil and the coaxial cable originating on the Autotune board and finishing at the Impedance Matching Transformer.

Application: This bulletin applies to **ALL SLF20050/C3 Antenna Couplers**.

Tools needed:
Phillips Head Screwdriver #2
Diagonal wire cutter or knife
Time required:
0.25 Manhour
Equipment needed:
x3 - 4 inch Cable Ties
Electrical tape or heatshrink wrap 3in (76mm)

Prevention of cable issues:

1. Please remove the heat shrink tubing from Wire 12, and verify the braided ground shield is stripped back, as shown below, to prevent possible contact of the coaxial cable's braided shield and center conductor. Re-secure connection with electrical tape or heatshrink wrap.
2. Inspect the area inside the coupler enclosure and verify none of the cables are near the tuning coil. Tie wrap wires to a secure location as necessary.

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Diagrams and/or photographs are included for your assistance. Please insert this bulletin, including illustrations below, in your manual. Thank you for choosing the Southern Avionics Company for your NDB needs. We appreciate your business.

This Customer Service Bulletin and others may be found at http://www.southernavionics.com/customer-service-bulletins/.

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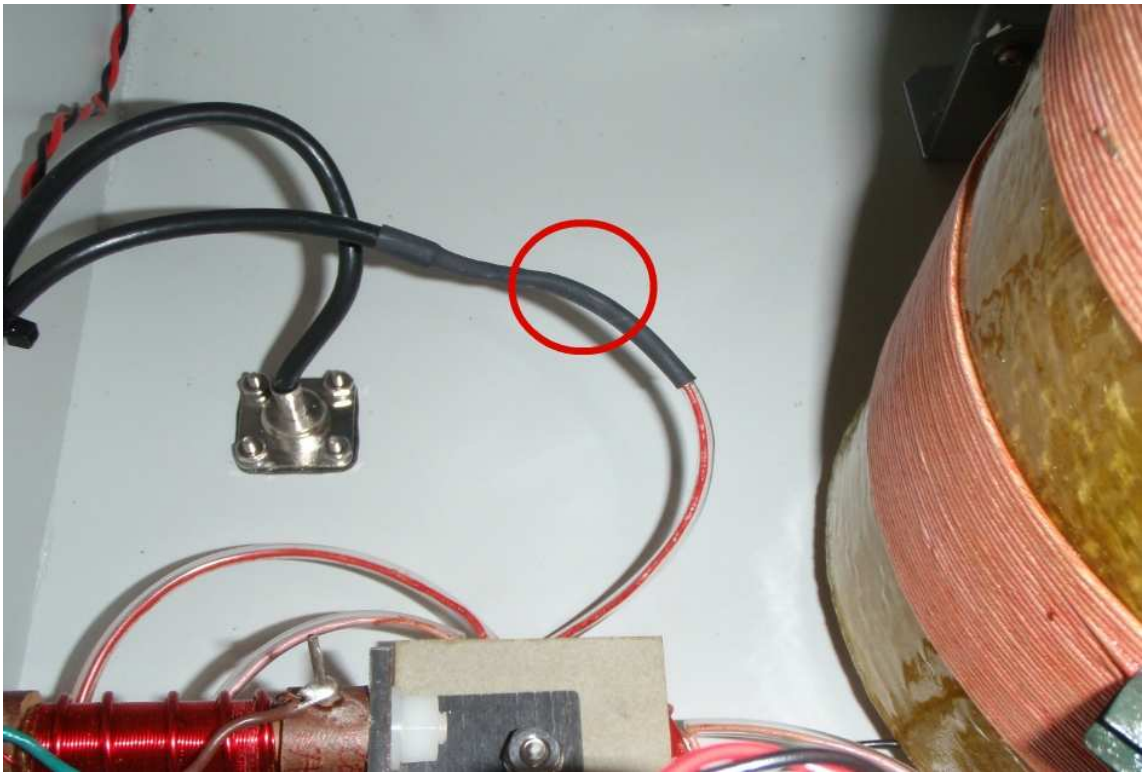
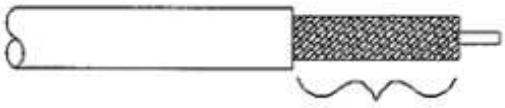


Remove heat shrink from this area



WIRE 12:
STRIP OUTER JACKET BACK 2" AND
REMOVE SHIELD FROM STRIPPED SECTION.
SOLDER CENTER TO T1 PRIMARY FINISH
AND INSULATE WITH HEATSHRINK.

Verify shield is stripped fully per diagram.

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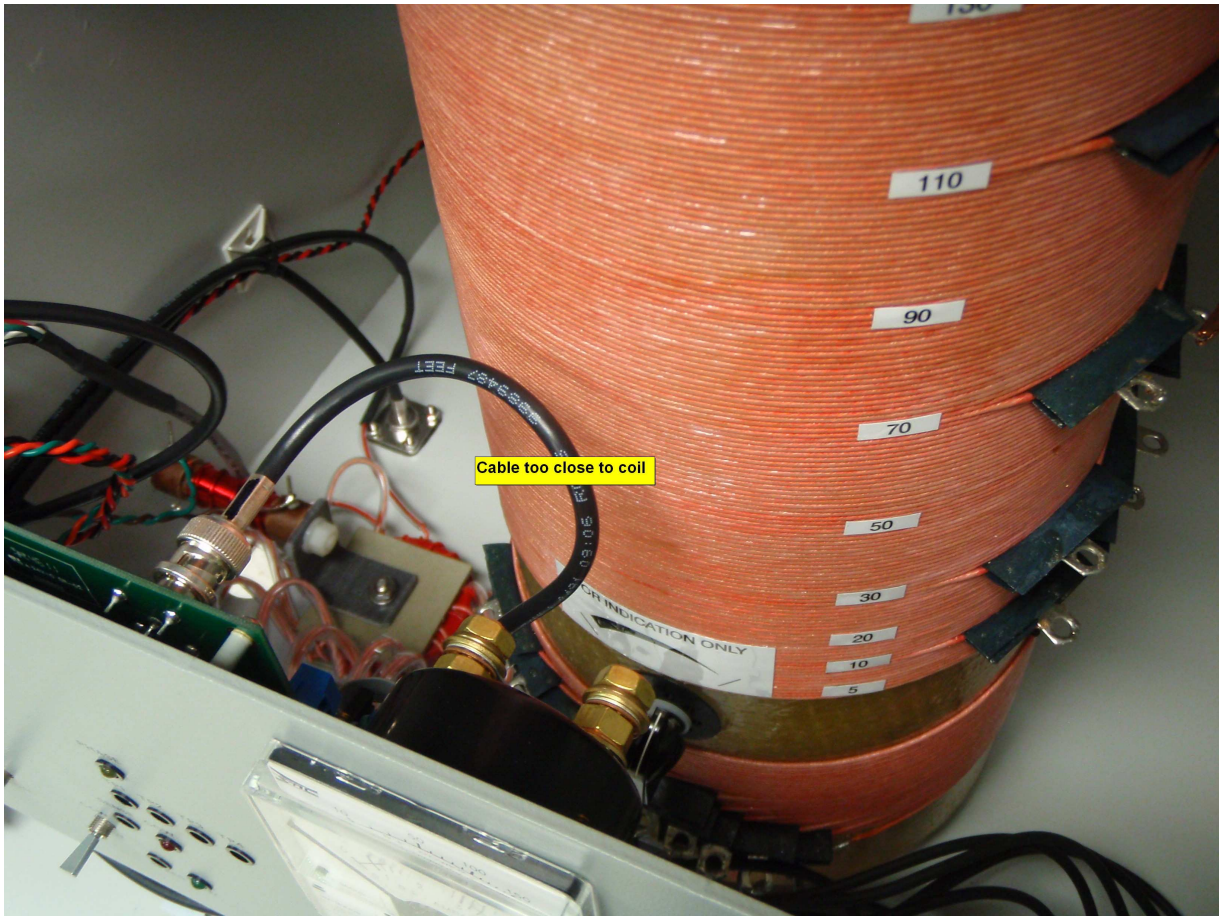

Cable too close to tuning coil.

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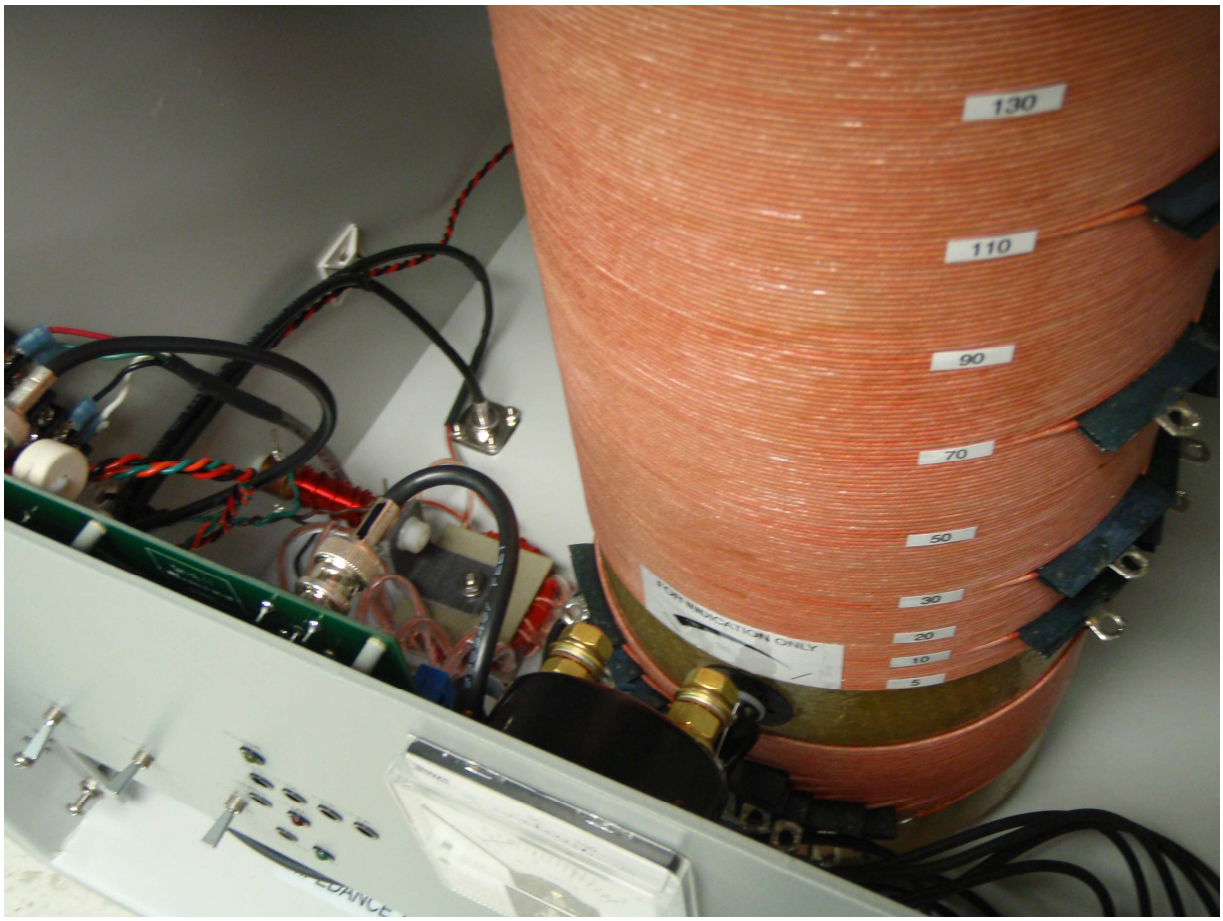
Cable pulled back and secured.



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