RTS™   TECHNICAL BULLETIN

RTS-TB-015   **11-January-2013**

RVON-2 Mechanical Interference in DKP16 CLD assembly can create Unreliable Operation & DKP16 CLD 'Lock-Up'

Issue Severity:	Product(s) Affected:
☒ **High:** URGENT – Immediate Action Required	• DKP16 CLD panels equipped with RVON-2 (Bosch SAP assembly F.01U.142.218) and manufactured prior to November 2012
☐ **Medium:** Bosch Security Systems, Inc. strongly recommends you take the action(s) described below.	• RVON-2 for DKP16 CLD assemblies (F.01U.142.218) not currently in service (in repair, storage, or stock at distribution center) and manufactured prior to February 2013
☐ **Low:** Advisory	

Notification Applies To:	Access Restrictions:
☒ Technical Support (TSS)	☐ Internal Distribution **ONLY**
☒ Repair (ASA)	☒ **No** Restrictions (Internal & External Distribution)
☒ Sales (NSO / RSO)	

1.0   Issue

The RVON-2 card has the potential to experience signal shorting and erratic operation due to a mechanical interference issue. This can occur when:

- The card is installed in a DKP16-CLD keypanel; **and**
- The card's programming header "J1" pushes against the metal heat shield of the keypanel's AC / DC power supply.

If this occurs, the card may lose communication, lock-up or completely fail. It also produces pressure on the power supply mounting stand-offs and may make it difficult for the top cover to seat completely.

2.0 Resolution / Corrective Actions

This issue is resolved by cutting the pins of the programming header J1 on the RVON-2 card. This process is described in the following section for RVON-2 cards already installed in a DKP16 CLD unit. The appropriate rework can similarly be applied to cards that are not currently installed in a DKP16 CLD.

A production change was implemented in October 2012 which resolves this issue on DKP16 CLD units with installed RVON-2 cards manufactured after that date.

3.0 Detailed Rework Instructions

Necessary tools and parts:

- Phillips head screwdriver
- Wire Cutters for lead trimming of header J1
- Protective Eyewear (recommended while cutting pins)

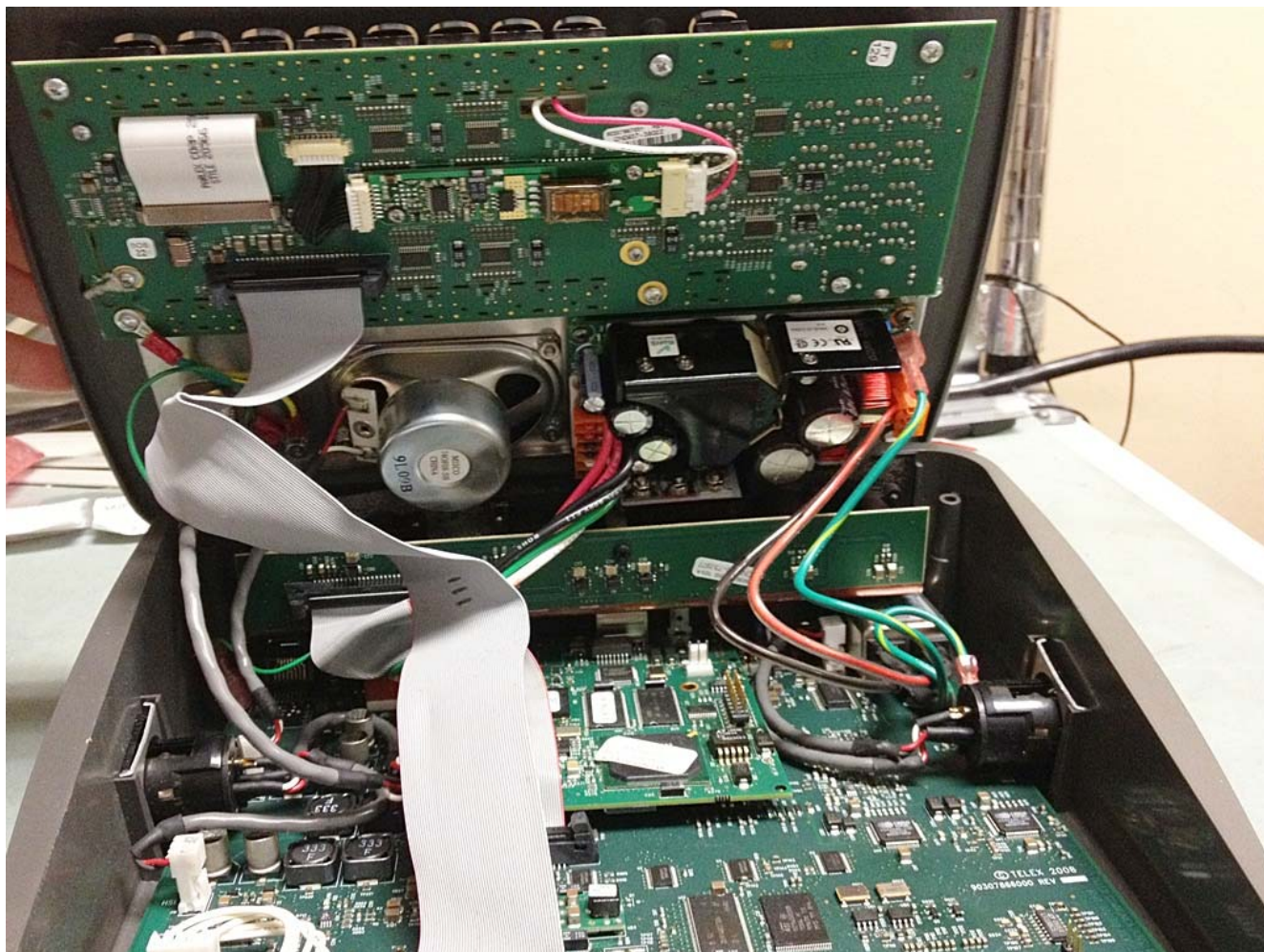1. **Remove AC power from unit before proceeding with any rework.**

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2. Detach top cover by removing 4 screws accessible from bottom of DKP16 CLD unit. Set aside screws for re-assembly process at the end of re-work:
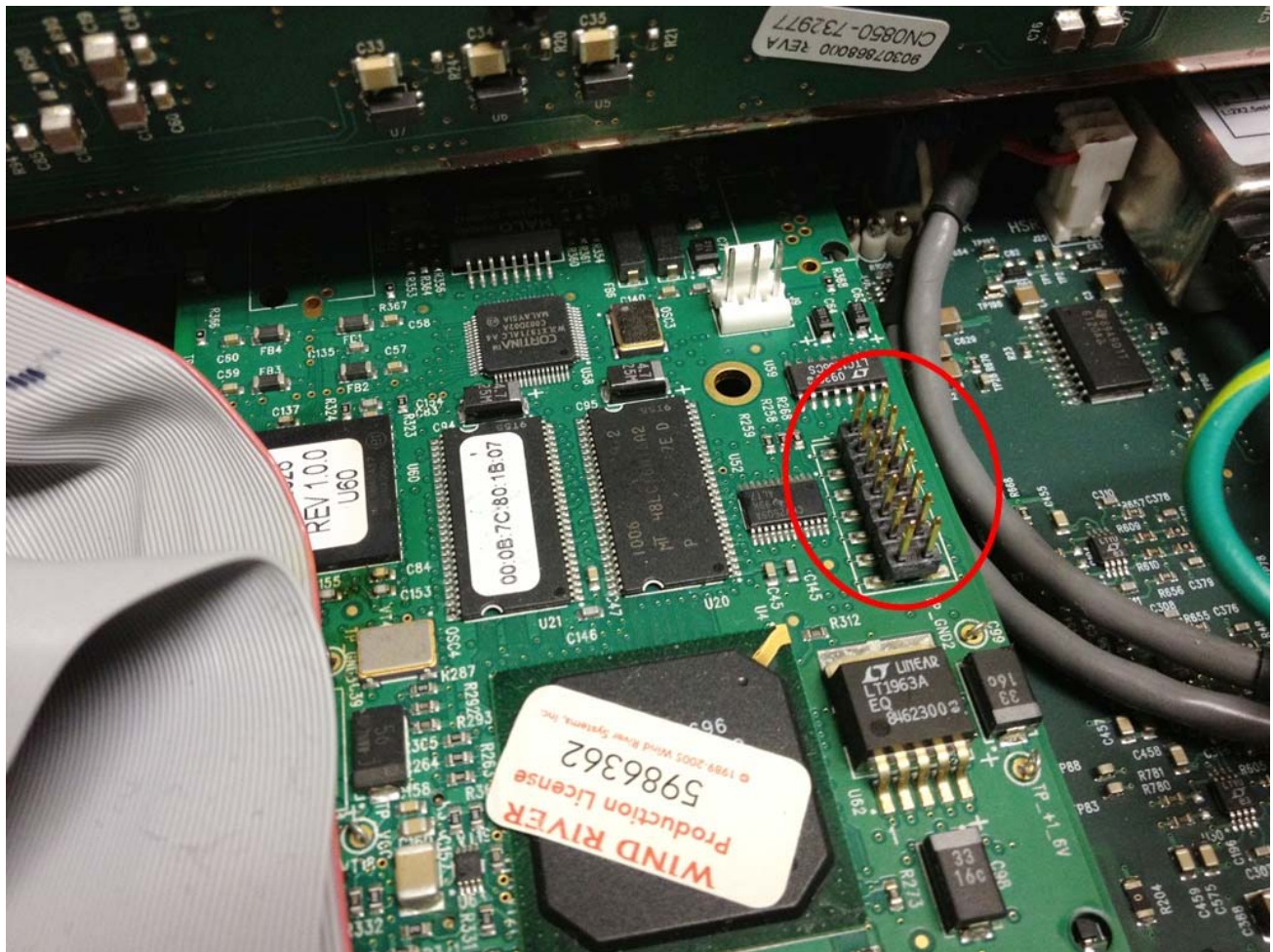
3. Flip unit into normal orientation and gently lift top cover assembly.

4. The RVON-2 card should be clearly visible within the unit along with programming header J1 (highlighted in the following photo).

5. **NOTE:** The RVON-2 header pins can be trimmed with the card seated in the unit or by removing the RVON-2 card. In either case, the repair person must be careful that the trimmed metallic waste is disposed of and not allowed to fall loose on the card or inside the unit where it could create an electronic short when the unit is re-powered.


(i) NOTICE!

Proper Eyewear Protection should always be worn when cutting metal or wires. Be sure to avoid any cut leads falling loose into the DKP16 CLD where electrical shorting can occur. Dispose of all trimmed waste after cutting.

J1 is a 14-pin programming header. It is not necessary to trim all 14 of the header pins. It is recommended that **at minimum** the 8 pins shown in the photo below be trimmed. Note that no functionality is impacted if additional pins beyond the 8 shown are trimmed.

The pins should be cut so that a minimum of 3.5 mm is trimmed. The header is not used in normal operation so it is not necessary to leave any pin length on the header for the pins that are trimmed.
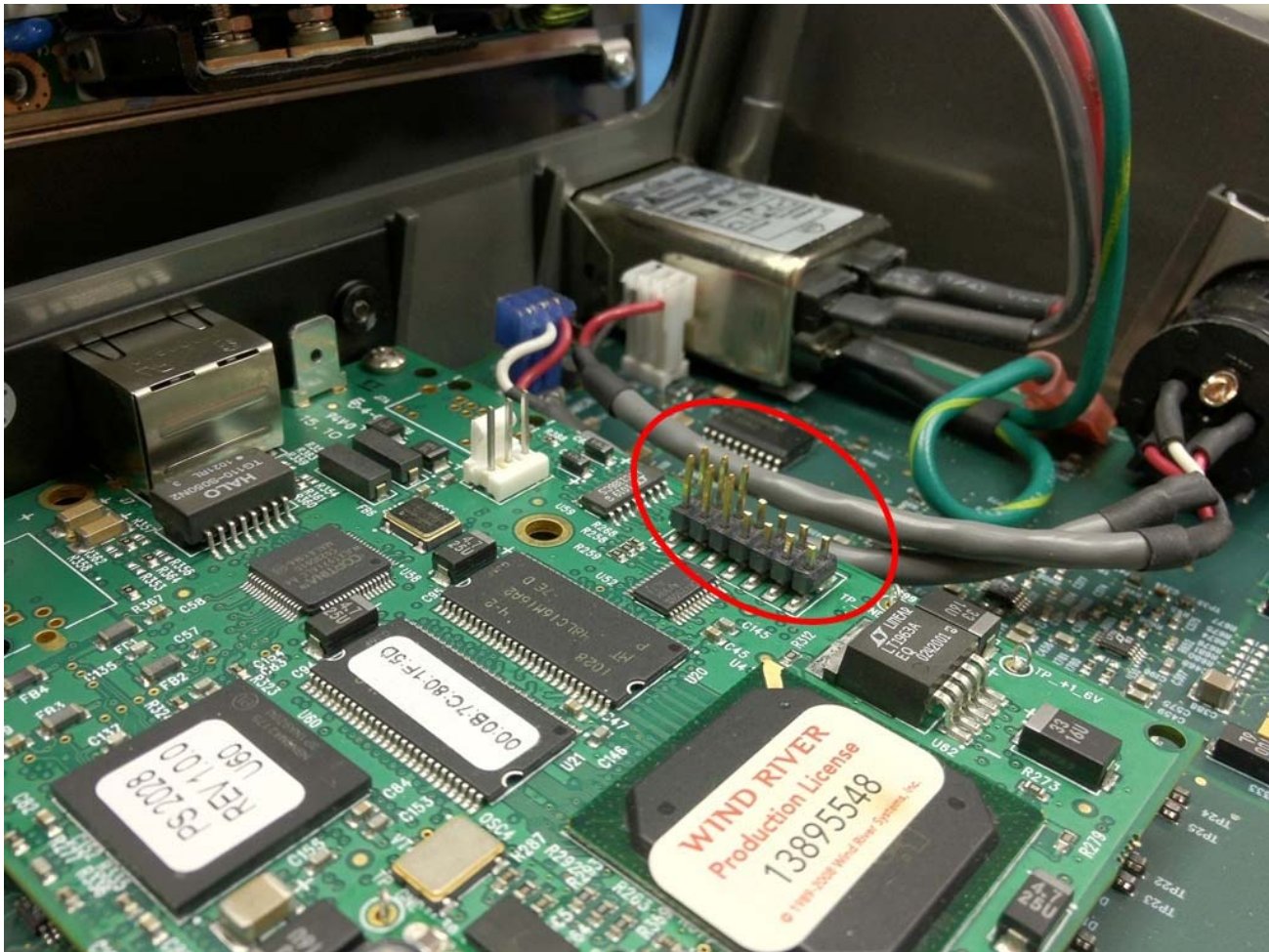
6. With the header lead trimming complete, re-seat the top cover assembly of the DKP16 CLD. Replace the 4 long screws that were removed in Step 2 and securely tighten to seal the enclosure.

7. Following completion of these steps, the AC power may be re-connected to the unit and the unit returned to normal service operation.