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## 1- SCAN ROOM INTERFACE (SRI) TROUBLESHOOTING

### 1-1 TOOLS REQUIRED

1. Flat blade screw driver
2. Copper Tape Part # yms0013BA
3. Protective gloves
4. Isopropyl Alcohol (Purchase Locally)

The Scan Room Interface Unit can be a source for intermittent and continuous RF leaks from the frequencies generated by the controllers and Integrated circuits within it. It is necessary to open the cover to look at diagnostic LED and service the SRI. Occasionally, it may be necessary to remove the cover to inspect the inside, or reattach fiber optic cables that may have come loose.

It is extremely important that the SRI is sealed with copper tape at the end of any servicing that required removal of the cover. This procedure is necessary to insure system Image Quality.

### 1-2 Removal of the SRI

Refer to the Replacement Maintenance procedure for your system type. Follow the directions unique to each Signa Magnet configuration.

### 1-3 Inspection of the SRI



**SCAN ROOM INTERFACE**  
ILLUSTRATION 1-1

### 1-3 Cleaning surfaces - Sealing the SRI with Copper Tape



1. Use Isopropyl Alcohol and thoroughly clean off any old glue or oil residue from the entire edge area before applying new copper tape.



Old glue from previous copper tape.

**REMOVE OLD GLUE RESIDUE**  
ILLUSTRATION 1-2

### 1-4 Re-sealing the SRI case with Copper Tape

It is essential that all glue and residue is removed from the SRI case before applying new copper tape. (See Section 1-3) Failure to perform section 1-3 will result in intermittent Image Quality problems, White Pixel artifact, Spike noise and possible Zipper artifact in the images.

Replace the cover and slightly tighten the thumbscrews using a flat blade screwdriver. Be careful NOT to break these screws or strip the threaded holes.



**USE GLOVES TO APPLY THE COPPER TAPE. IT IS RAZOR SHARP AT ITS EDGES, ONCE THE PAPER BACKING IS REMOVED. IT WILL CUT UNPROTECTED SKIN AND FINGERS.**

1. Measure each piece to fit with at least a half-inch overlap.

Step 1.



Step 2.

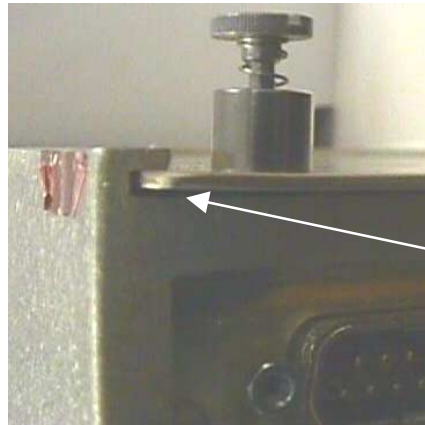
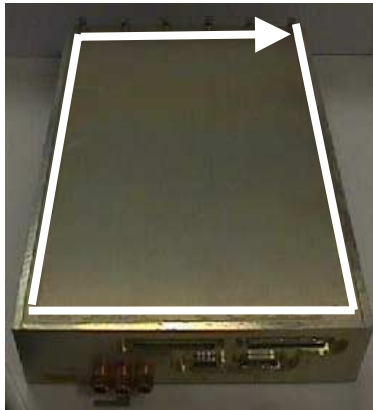


Step 3.



**COPPER TAPE APPLIED**  
ILLUSTRATION 1-3

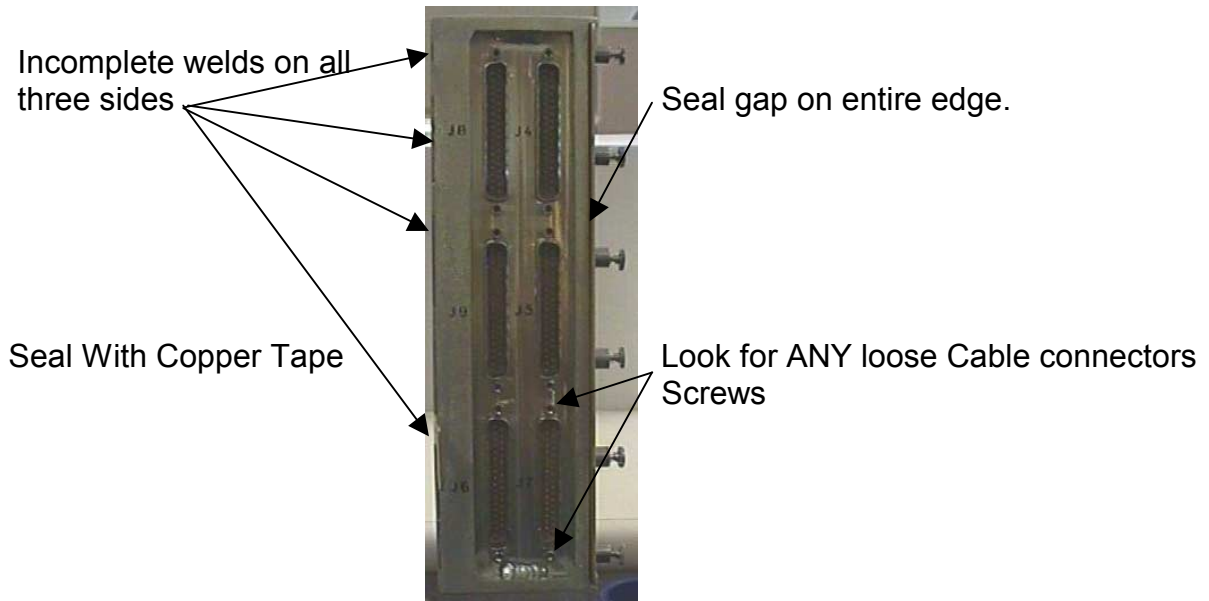
2. Begin applying to entire cover, sealing the gap between the cover and the casing. Work your way around until all gaps are sealed.



Watch here for potential leaks, even after copper tape has been applied.

**APPLICATION OF COPPER TAPE**  
ILLUSTRATION 1-4

3. Inspect the bottom cover and sides of the SRI Unit. Welds may not be seamless and complete. Apply Tape to ANY suspicious leak source on the top bottom and sides of the SRI Unit.



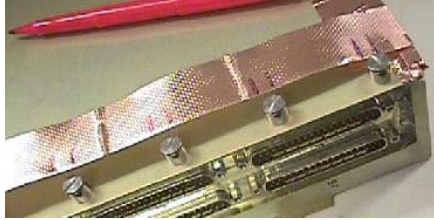
**INCOMPLETE WELDS**

ILLUSTRATION 1-5

If you have a doubt about any crack or opening on the SRI seal it with copper tape.

Step 4.

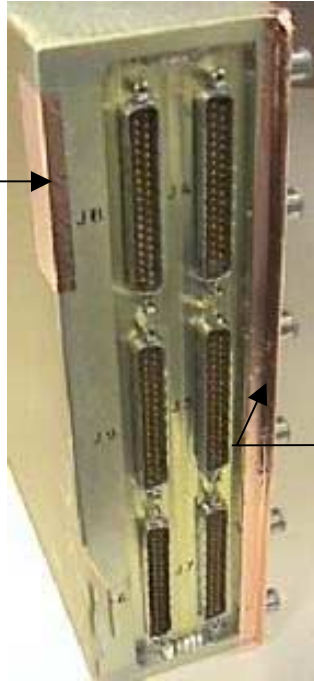
Step 5.



**THUMB SCREW EDGE**  
ILLUSTRATION 1-6

**TAPING THE**

**Step 6**



Possible  
weld gap  
Sealed with  
copper tape

**Step 7- Done**



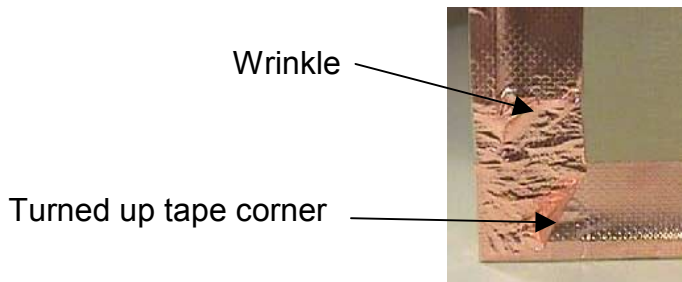
Copper Tape wrapped under edge.

**Note**

Use a pencil eraser to rub down the tape to insure the copper tape has made a good bond. Avoid any wrinkles. They may cause RF leaks.

**SEALED SRI MODULE**  
1-7

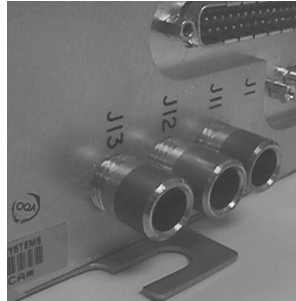
- 4. Insure no wrinkles or tape corners are lifting. Seal wrinkles with additional tape or remove the bad section, clean with alcohol and re-apply tape as necessary.



**EXAMPLE OF UNACCEPTABLE WRINKLE**  
ILLUSTRATION 1-8

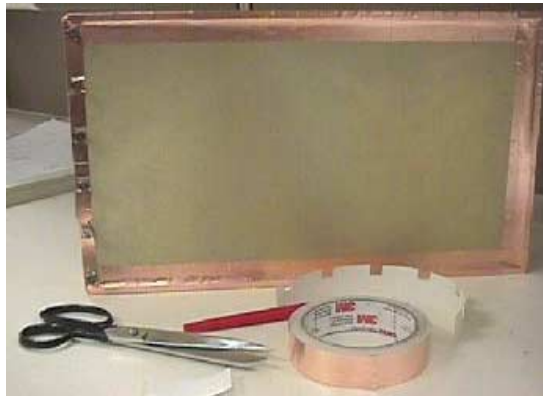
**Note**

It is unnecessary to apply copper tape to the 3 Fiber Optic Waveguides. They are designed to inhibit RF and will NOT cause any RF leaking. However, insure they are finger tight. (See Illustration 1-9)



**FIBER OPTIC WAVE GUIDES**  
ILLUSTRATION 1-9

Completed and properly sealed Scan Room Interface Unit.



**COPPER TAPE APPLIED**  
ILLUSTRATION 1-10

### REVISION HISTORY

REV	DATE	AUTHOR	PRIMARY REASONS FOR CHANGE
A	Dec 15, 2000	D. Hofstetter	Initial Version.