TECHNICAL BULLETIN

IN-FIELD MODIFICATION PROCEDURE
CHEETAH DRS POWER SUPPLY
MECHANICAL STABILIZATION

APRIL 2009

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1. SCOPE OF WORK

This Technical Bulletin addresses a potential mechanical issue associated with the Power Supply Module and Front Access Cover used in the Cheetah DRS frames whereby the module can loosen and cause loss of connection when subjected to vibration or a non-stationary environment; and presents a step-by-step procedure for modifying current fielded frames to correct this potential issue.

Power supply modules are currently held into the power supply slot of the chassis frame by the connector located on the rear of the module. Since the front edge of the power supply "sled" does not make direct contact with the front access cover, there have been instances reported where vibration and a mobile environment have caused the rear connector to loosen from its mating connector on the mid-plane and allow the power supply to lose connection with the mid-plane.

The simple procedure contained in the following steps installs a block of foam to act as a stabilizer between the front edge of each power supply and the front access cover of the chassis in such a way to prevent this situation from occurring. PESA highly recommends that you take the very short amount of time needed to perform these steps on every front access cover in your DRS system.

2. MODIFICATION KIT

The modification kit consists of two pre-cut blocks of foam material with an adhesive strip attached to one side of each block.

3. MODIFICATION PROCEDURE

Follow the modification steps in the order presented.

3.1 Remove Front Access Cover From DRS Chassis

1. Loosen two thumbscrews, Figure 3-1, securing front access cover to DRS chassis frame.
2. Remove front access cover.

Figure 3-1 Remove DRS Front Access Cover

3. Move front access cover to a convenient work area.
4. Modification is made to inside of cover as shown by the illustration in Figure 3-2.

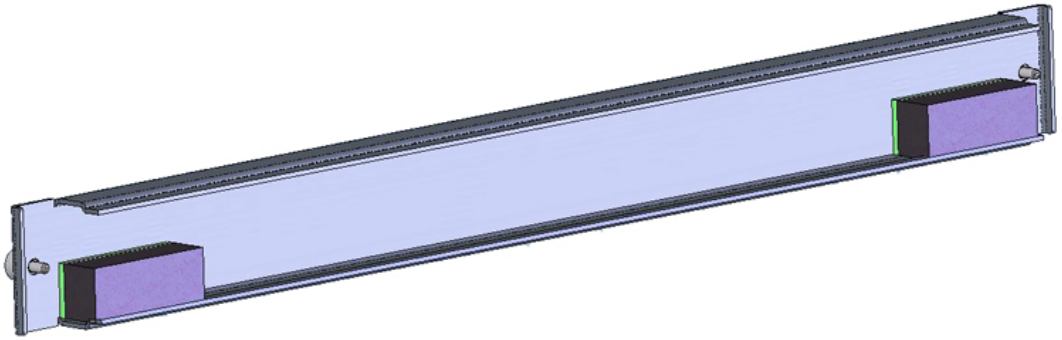

Figure 3-2 Inside View of Modified Front Access Cover

5. Orient the front access cover so that the top edge as shown in Figure 3-1 is facing up, and you can access the inside of the cover as shown in Figure 3-3.
6. The foam stabilizer block must be installed against the bottom flange as shown in Figure 3-3.
7. Locate one of the foam stabilizer blocks included with the modification kit
8. Remove the backing from the adhesive strip.
9. Place the block such it is flush with both the bottom and side edge of the bottom flange, as shown in Figures 3-2 and 3-3.
10. Press the foam stabilizer block in place and ensure that the adhesive strip is securely attached to the access cover.

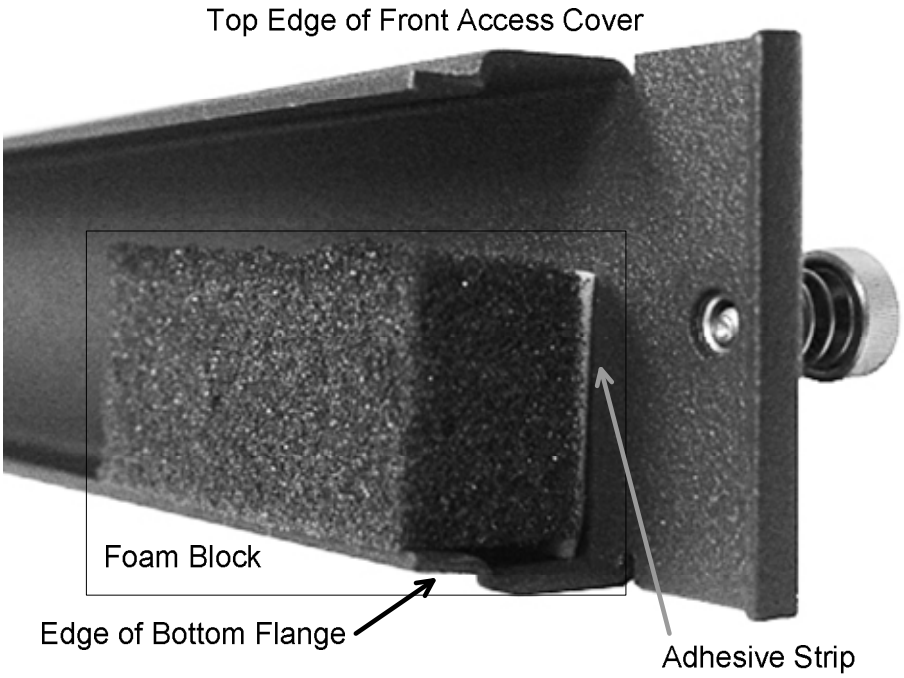

Figure 3-3 Location of Foam Stabilizer Block

11. When viewed from the side, the installed foam block should be oriented as shown in Figure 3-4.

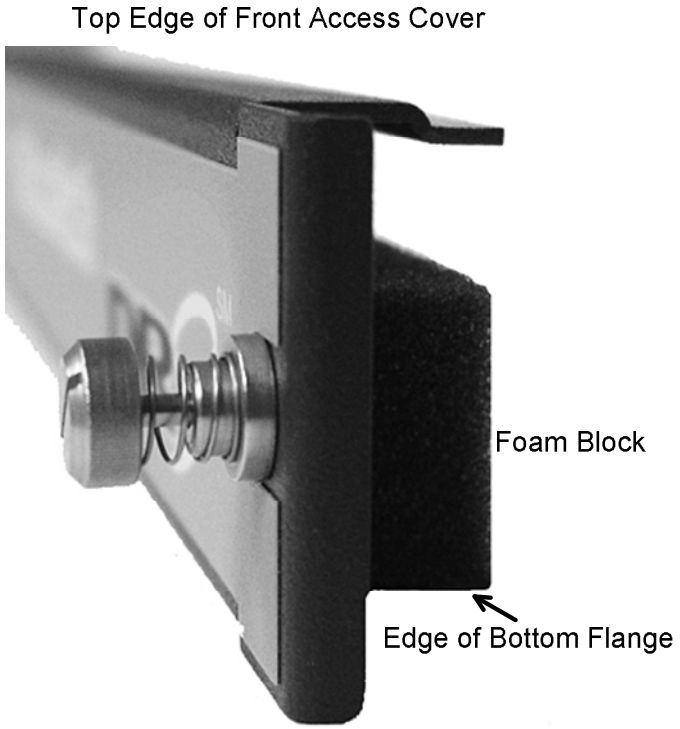

Figure 3-4 Side View of Installed Stabilizer Block

12. Repeat steps 8 through 11 with the remaining foam stabilizer block on the opposite end of the bottom flange.
13. Inspect your work in accordance with Figure 3-5.

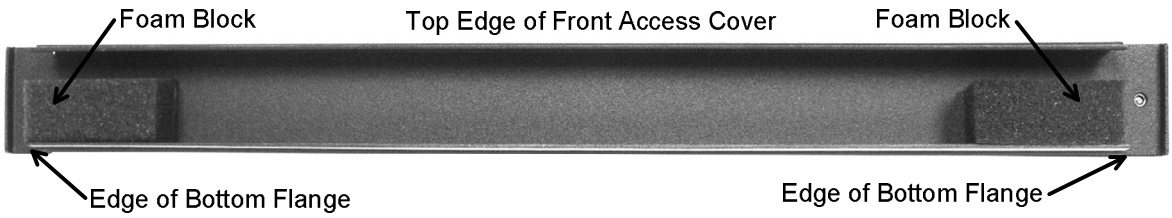

Figure 3-5 Completed Access Cover Modification

14. Replace front access cover on chassis frame and secure by tightening two thumbscrews as shown in Figure 3-1.

Modification of the DRS to mechanically stabilize the power supply module(s) is now complete. PESA would like to thank you for taking the time to perform this modification to your DRS equipment. We truly apologize for any inconvenience this may cause you.

Please add this bulletin to the documentation you received with your equipment and retain it for future use.