

MODIFICATION RECOMMENDED

N4850A-01

S E R V I C E N O T E

Supersedes:
NONE

N4850A Digital Analysis Probe

**Serial Numbers: US47220101 / US47220109
MY47000101 / MY47000105**

Installation of spacer to eliminate grinding fan noise

Parts Required:

| P/N | Description | Qty. |
|-----------|----------------------|------|
| 0380-2098 | Hex Stand-off, M3x18 | 4 |
| 3050-2249 | Washer, 0.5 mm thick | 2 |

ADMINISTRATIVE INFORMATION

| | | | |
|---------------------------------|---|--|---|
| SERVICE NOTE CLASSIFICATION: | | | |
| MODIFICATION RECOMMENDED | | | |
| ACTION CATEGORY: | X ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME | STANDARDS | LABOR: 0.5 Hours |
| LOCATION CATEGORY: | <input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE X SERVICE CENTER <input type="checkbox"/> CHANNEL PARTNER | SERVICE INVENTORY: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP X SEE TEXT | USED PARTS: <input type="checkbox"/> RETURN X SCRAP <input type="checkbox"/> SEE TEXT |
| AVAILABILITY: | PRODUCT'S SUPPORT LIFE | NO CHARGE AVAILABLE UNTIL: August 2009 | |
| AUTHOR: | SM | PRODUCT LINE: 1B | |
| ADDITIONAL INFORMATION: | | | |

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Situation:

Some units exhibit a mechanical fan noise after shipping/transportation. The root cause of this issue is that the clearance for the fan assembly did not allow for worst case parts tolerances. On the defective units it is likely that the mechanical tolerances of parts allowed for the fan cable to slide out of its routing cavity onto the top of the fan housing during shipment. The cable sliding out of position put extra pressure on the fan housing, causing the deflection of the fan housing that interferes with the rotation of the fan blades.

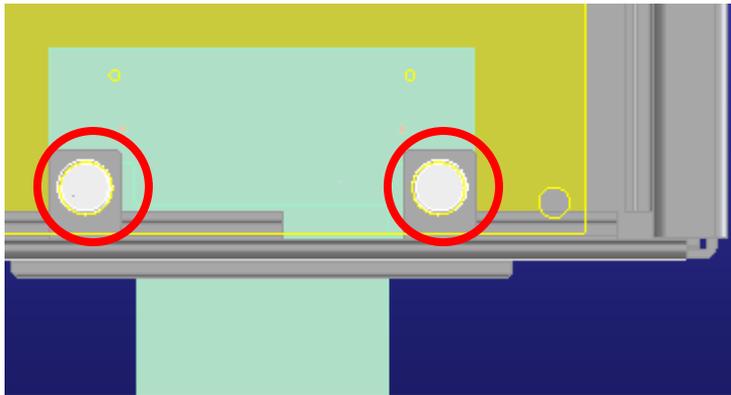
Solution/Action:

If the described noise occurs, follow these steps to upgrade the unit.

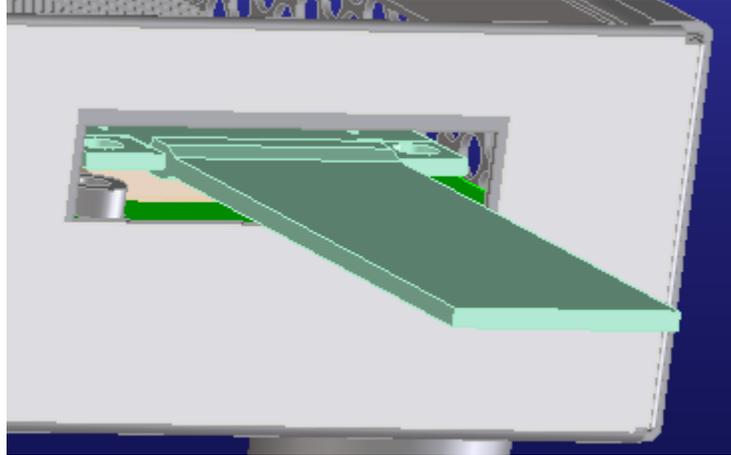
Tools required:

- Torx T-10 screwdriver
- Nutdriver or socket ¼ inch

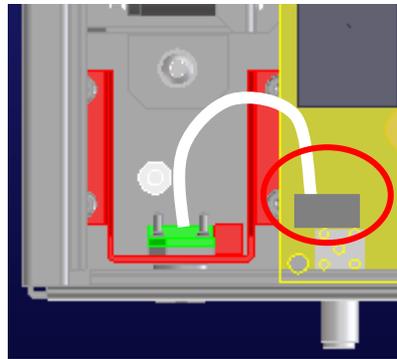
1. Remove the (4) cover screws (0515-0372, M3x8mm). *Set aside for re-use.*
2. Remove the cover
3. Remove the (4) hex stand-off hardware (0380-1631 M3x16mm) securing the PCA into the chassis. *This hex stand-off hardware will be replaced with new hardware upon re-build.*
4. Remove the remaining (5) screws (0515-0372, M3x8mm) securing the PCA into the chassis. *Set aside for re-use.*
5. N4850A only: Remove the (2) screws (0515-0375, M3x16mm) securing the cable into the PCA. *Set aside for re-use.*



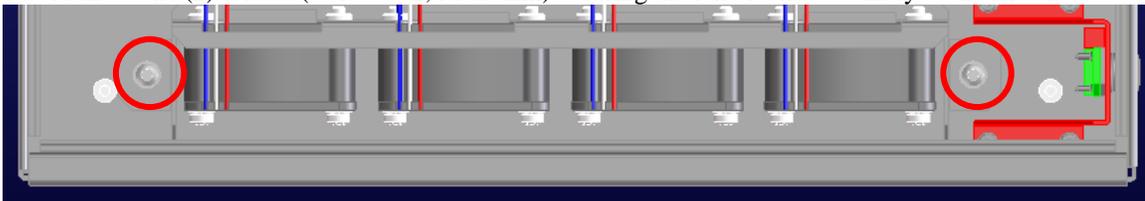
6. N4850A only: Remove front panel cable brackets (N4850-21601), first the top one and then the bottom one. *Set aside for re-use.*



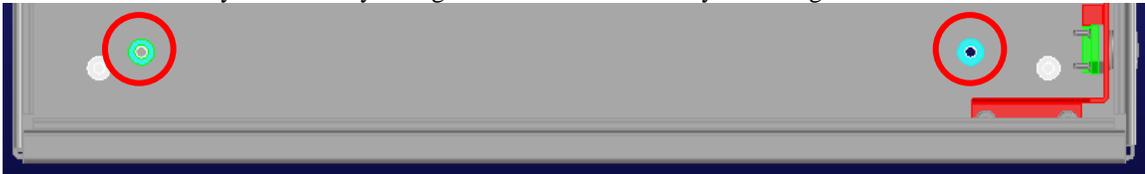
7. N4850A only: Unplug the cable and remove through the front panel of the chassis. *Set aside for re-use.*
8. Unplug power connector cable from the PCA



9. Remove the PCA
10. Remove the (2) screws (0515-0372, M3x8mm) securing the fan bracket assembly to the chassis



11. Remove the fan bracket.
12. Add the (2) washers (3050-2249, 6mm OD, .5mm thick) to the chassis stand-off and replace the fan bracket assembly – effectively lifting the fan bracket assembly .5mm higher in the chassis.



13. Secure the fan bracket into place with the original (2) screws (0515-0372, M3x8mm). Re-Install the PCA, secure it with the original (5) screws (0515-0372, M3x8mm).
14. Re-connect the power connector to PCA.
15. N4850A only: Re-connect the front cable to the PCA connector through the chassis front panel.
16. N4850A only: Re-insert the top and bottom cable support brackets (N4850-21601) into the front panel opening.
17. N4850A only: Re-install the (2) screws (0515-0375, M3.16mm).
18. Install (4) new hex stand-offs (0380-0298).
19. Re-install cover and secure with 4 screws (0515-0372, M3x8mm).