



SONARtrac® Rework Instruction

Subject: Procedure for Replacing Sensor Cover Connector Base Assembly

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Purpose:

The purpose of this document is to establish a procedure for the replacement of the sensor cover connector base assembly. Read the entire procedure before replacement of the connector base assembly.

Materials for Replacing Connector Base Assembly:

Part Number	Description
S-20110-01	Spare, Connector Base Assembly – ISS0006 (with Viton Gasket for use with Fiberglass Covers)
Or, S-20110-02	Spare, Connector Base Assembly – ISS0006 (with Silicone Gasket for use with Stainless Steel Covers)
---	Phillips Screw Driver
---	Socket, 5/16 inch
---	Torque Wrench capable of 11.0 inch-pound setting

Procedure

1. Verify the contents of the replacement kit are complete.
2. Remove cover from process pipe per R10005 Procedure for Removal of Sensor Head (also found in Installation Manual).
3. Wipe cover to remove surface dirt.

	CAUTION Upper cover contains electronic board. Do not put cover in dip tank or allow board to get wet.
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4. Move the cover assembly to a workshop area.

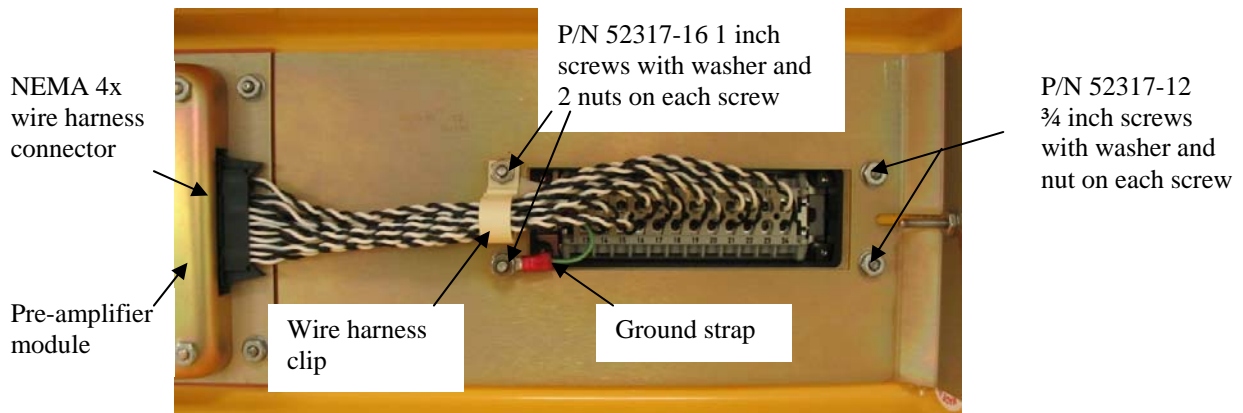


Figure 1 Connector Base Assy (Inside Cover View)

CiDRA Corporation	50 Barnes Park North	Wallingford, CT 06492
Tel. 203-265-0035	Fax. 203-294-4211	www.cidra.com



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5. Unclip and remove the pre-amplifier to NEMA 4x wire harness connector from the pre-amp board.
6. Remove the nuts used to retain the wire harness clip and ground strap.
7. Remove the 4 nuts and washers used to retain the connector base assy.
8. Remove the connector base assy.
9. Thoroughly clean the cover where the base will be installed.
10. Inspect the new connector base.
 - a. Lightly tug each wire to ensure they are tight within their connectors.
11. Install the connector gasket on the connector base.
 - a. Remove the adhesive covering from the connector gasket.
 - b. Align the adhesive covered side of the gasket to the connector base and screw holes.
 - c. Press the gasket in place.
12. Install 2ea of the P/N 52317-16 Screw, Self Sealing, Viton O-Ring, PH Phillips, 18-8 SST, 6-32 Thd x 1" Lg, through the top of the connector base in the end where the ground wire is installed.
13. Install 2ea of the P/N 52317-12 Screw, Self Sealing, Viton O-Ring, PH Phillips, 18-8 SST, 6-32 Thd x 3/4 Lg screws, through the top of the connector base in the end of the base opposite the ground wire.
14. Install the connector assembly on the cover.
 - a. Make sure the ground strap end of the connector base is closest to the pre-amplifier module.
15. Install a P/N 51089-07 Washer, Flat, .375 OD x .149 ID x .031 Thk, 18-8 SST on each of the screws.
16. Apply a drop of the Loctite 243 to each screw thread.
17. Install a P/N 50036-6 Nut, Machine Screw, #6-32, 5/16" Wd, 7/64" Ht, 18-8 SST on each screw.
18. Torque to 11.0 in-lbs using a 5/16" socket and the torque wrench.
19. Inspect the gasket to ensure it is aligned under the connector base and sticks out only about 1/32" along the edges of the connector.
20. Attach the ground strap to the P/N 52317-16 screw closest to the ground strap.
 - a. Apply a drop of Loctite 243 to the screw and install a P/N 50036-6 Nut.
 - b. Torque nut to 11.0 in-lbs.
21. Install the P/N 52123-02 Clip, Extruded Wire Harness, .50 Holding Dia, PVC, Off White to the remaining P/N 52317-16 screw.
 - a. Apply a drop of Loctite 243 to the screw and install a P/N 50036-6 Nut.
 - b. Torque nut to 11.0 in-lbs.

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- 22. Re-install the NEMA-4x wire harness connector on the pre-amp. Make sure both of the locking clips are fully engaged.
- 23. Replace sensor cover gaskets on fiberglass covers as necessary.
- 24. Replace flange gaskets on stainless steel covers as necessary.
- 25. Re-install sensor cover per the SONARtrac™ Installation Manual.

MSDS Information:

The Material Safety Data Sheet for Loctite 243 can be found at the following website:
<http://sds.loctite.com>

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Document Change History

Date	Revision	Changed By	PCO #	Description of Change
03/17/05	01	B. Markoja	P04-0112	Initial Release