

Global Service Report

Engineering Services



TELEDYNE MARINE
Everywhere you look™

Equipment Registered

RMA no.:	575420	Service Report version:	Version 1
RMA handled by:	Teledyne RESON DK	RMA repaired by:	Teledyne RESON DK
Customer name:	Monterey Bay Aquarium Research Institute		
Customer contact:	Hans Thomas		
Customer email:	hthomas@mbari.org		
Customer phone no.:	831-775-1976		
Category:	SONAR - TM Imaging	Sub-category:	T50-P
Service requested:	SONAR - Inspection, Repair, Test		

Equipment received:

Part no.	Part Description	Serial no.	Rev. no.	Qty
1009483	T_ASSY,Submerged Sonar Processor SSP, -single head	94794914003		1

Remarks re. the equipment received:

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Failure Analysis

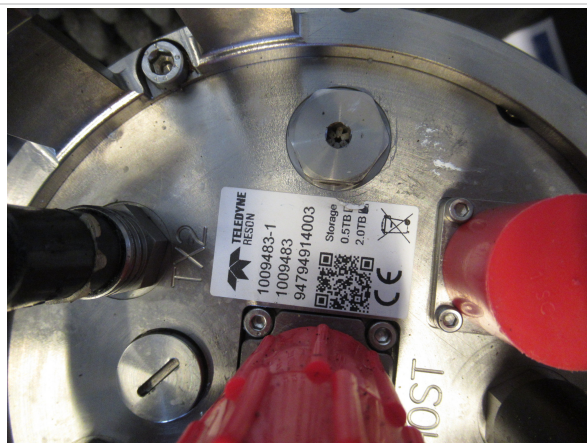
CUSTOMER Failure Description:

T50 with transmit issues.

TELEDYNE RESON Analysis tests:

Sonar Processor Tests	Passed	Failed	Remarks
Processor Visual inspection	☐	☒	Corrosion and damage found on TX connector
System communication test (baseline ...	☒	☐	
BITE test	☐	☒	PA module failed

Pictures:



Picture # 1
SSP SN 94794914003



Picture # 2
Corrosion and damage found on TX connector

TELEDYNE RESON Failure Analysis / Investigation:**VISUAL INSPECTION**

- Corrosion on pins and damage found on TX connector. It may look like the connector has been connected wrongly causing damage to connector rubber.

FUNCTIONAL TEST

- PA module failed during test

CONCLUSION

- PA module and Tx connector must be replaced for the unit to be fully operational

Spare parts / service items required to perform the repair:

Part no.	Part description	Qty
1009476	S_ASSY, TX 100-600kHz, 5kW, Reducedheight	1
1010009	CONN,CIRC,NETG,0p,STRAIGHT,F,DustCap,Dummy for NETG-FCR/BCR, Ø27mm	1
87650003	Multibeam Service Fee - Insp., Ext Rep., Test & Perf. Ver. (Inspection, Extended Repair, Test...	1

TELEDYNE RESON Recommended Repair:

- Replacement TX bulkhead connector (1010009)
- Replacement of Pa module (1009476)
- Service Fee

Please note that this quotation is based upon this service report's failure analysis including our initial test of the system as received. In the event that we find additional faults after having started the repair, we reserve the right to revert with a revised proposal for remediation.