

Technical Update

Issue Number: TU228

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Date: 1st August 2005Author: **Bob Sims**

Product Description: **SmartPilot S1 & S1G Course Computers, Corepacks & Systems**

Serial Number(s): **All**

Subject: **Fluxgate Compass Circuit Fault**

Please be advised that infield feedback has highlighted a potential fluxgate compass circuit fault, which can affect current S1 and S1G SmartPilot course computers.

The fault will cause the compass heading to drift, jump segments or show large inaccuracies.

The fault is associated with the wrongly reverse placement of the fluxgate drive AC coupling capacitor C43. The fault does not affect all S1 Course Computers and is only triggered when the tolerance of the capacitor is at the limits of its value specification.

The following service procedure should be taken to rectify faulty units:

- Follow procedure over.
- Remove PCB from Course Computer Case
- Locate C43 Capacitor
- Unsolder & remove from PCB
- Replace and re-solder in reverse (see diagrams)
- Replace PCB into case
- 15mins labour per unit can be claimed against warranty
- For onboard service follow the normal warranty claims procedure

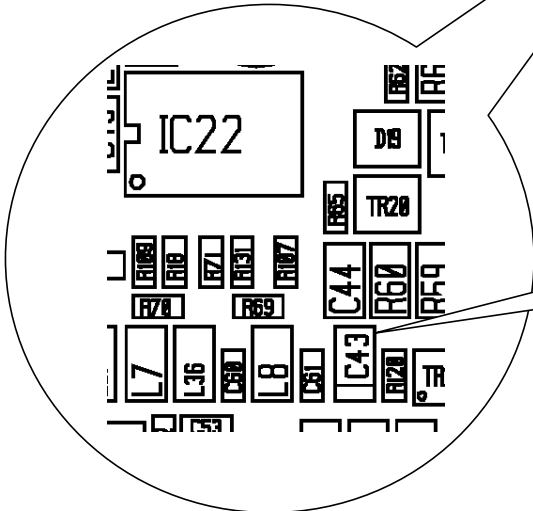
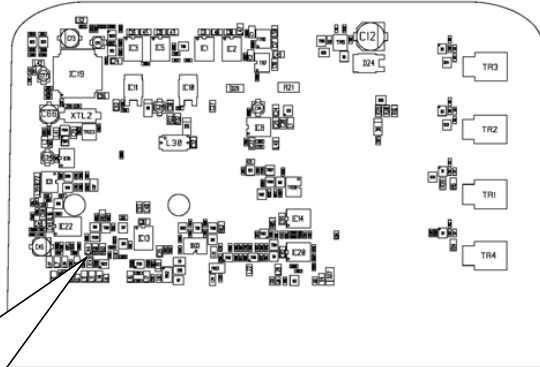
For further information contact Raymarine's Technical Services Department.

Priority:	Distribution List:
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URGENT <i>(For immediate attention)</i>	Distributors & Service Agents
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ROUTINE <i>(Action at next Service Call)</i>	Installing Agents & BoatBuilders
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INFORMATION ONLY	Key Stockists
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	Internal Release

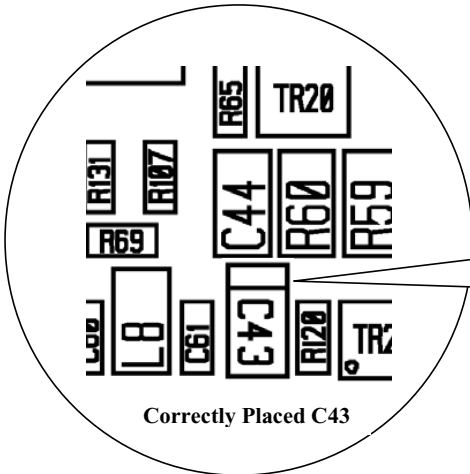
Raymarine,
Raymarine House,
Quay Point,
Portsmouth,
Hampshire,
PO6 3TD, UK.
T: +44 (0)23 9269 3611 ext 2023
F: +44 (0)23 9266 1228

Raymarine Inc.,
21 Manchester Street
Merrimack, NH 03054-4801
USA
T: 1-603-881-5200
F: 1-603-864-4756
www.raymarine.com

Service Details and Procedures



C43 Polarised Capacitor 2.2uF 6.3v
Wrongly Placed on PCB!



Correctly Placed C43

Service Procedure:

- Remove PCB from plastic casing
- Locate C43 Capacitor
- Unsolder & Remove from PCB
- Replace & re-solder in reverse