



Date: Dec. 7, 2012
TOKYO KEIKI INC.
Control Division.1

To all of our valued customers

Subject: Recall and Notice Regarding Problem with Our Autopilot PR-6000-DM/DW Control Box

This notice is to inform you regarding a problem involving the control box of our PR-6000 Autopilot systems which were supplied during a certain period.

Some capacitors of the power line filter pwbs (DF-10 pwb) inside the control boxes, our Autopilot PR-6000 series DM or DW type installed in the steering gear rooms may be broken with blown fuses in some cases. This control box failure will cause loss of steering function by the steering system through the troubled control box. This recall notice affects all target DF-10 pwbs.

1) Applicable product:

Control box of PR-6000-DM or PR-6000-DW shipped in period November, 2004 to June, 2009.

2) Description of the problem:

If a capacitor on the power line filter pwb (DF-10 pwb) of the control box is broken, the power fuse is blown and the steering function of the steering system through the control box which includes NFU steering will be lost.

3) Cause:

Cause is attributed to incidental noise generated via the power line.

4) Action to be taken:

DF-10 pwb will be replaced with improved parts on site.

Approximately four hours are necessary to perform this work including steering function check.

The work will not involve any fire hazardous procedures including use of soldering irons..

5) Emergency measures:

If a power fuse is blown caused by the damage of the capacitor on the power line filter pwb of the control box, POWER FAIL alarm is activated on the autopilot in the wheelhouse. In such case, please refer to follows and attached flowchart and take appropriate measures.

- A) If autopilot No.1 system POWER FAIL alarm is activated during the use of No.1 system, switch to No.2 system immediately. Switch the steering gear pump to No.2 and secure the steering function in the wheelhouse. Steering function will be available with the No. 2 system but not with No. 1 system.
- B) If autopilot No.2 system POWER FAIL alarm is activated during the use of No.2 system, switch to No.1 system immediately. Switch the steering gear pump to No.1 and secure the steering function in the wheelhouse. Steering function will be available with the No. 1 system but not with No. 2 system.
- C) If autopilot No.1 or No.2 system POWER FAIL alarm is activated while both steering gear pumps are running, switch to the system which the alarm isn't active immediately. Stop the steering gear pump of the system corresponding to the alarm and secure the steering function in the wheelhouse. Steering function will be available with the system unaffected by the alarm but not with the system affected by the alarm

D) If BOTH No.1 and No.2 system POWER FAIL alarms are activated during navigation, the steering will be unavailable in the wheelhouse. Immediately implement safety measures such as stopping the ship. Emergency steering with the steering gear in the steering gear room will only be possible.

6) Contact Information:

Please contact our company immediately in the event of the occurrence of this problem mentioned above. We will advise on recommended actions to be taken and on methods to recover the steering function.

Your kind understanding and cooperation on this important matter is greatly appreciated.

Service stations and agencies list 1/2

Main contact address

	Address	E-mail	Phone No.	Fax No.
DF-10 Recall Center	2-16-46 Minami-Kamata, Ohta-ku, Tokyo 144-8551 JAPAN	df-10-recall@tokyo-keiki.co.jp	03-3737-8622	03-3732-4748

JAPN

	Address	E-mail	Phone No.	Fax No.
Tokyo-keiki East-service Center	2-16-46 Minami-Kamata, Ohta-ku, Tokyo 144-8551 JAPAN	east-service@tokyo-keiki.co.jp	03-3737-8642	03-3737-8643
Tokyo-keiki West-service Center	3-4-13 Mizukidori, Hyogo-ku, Kobe 652-0802 JAPAN	kobe-ss@tokyo-keiki.co.jp	078-577-6111	078-577-5335
Tokyo-keiki Overseas service	2-16-46 Minami-Kamata, Ohta-ku, Tokyo 144-8551 JAPAN	overseasvc@tokyo-keiki.co.jp	03-3732-6583	03-3732-4748

Over seas 1/2

Area	Main Location	Service Agent	Service Coordinator	E-mail	Phone No.	
Asia	South Korea	Pusan	KUM HO TECH INC.	Mr.C.H.Jang	kumho@kumhotech.co.kr	+82-51-780-8181~4
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Middle East	UAE	Dubai	Maritronics	Mr.Ashley Murzello	service@maritronics.com	+971-4-3247-500
			Consilium Middle East	Mr.Vishnu Kumar	service@consilium.ae	+971 6 5453030
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Service stations and agencies list 2/2

Over seas 2/2

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Appended : Flowchart

