

EQUIPMENT AFFECTED: BridgeMaster E Processors, 65800P-R-, P-V-, R---, S---, T---, fitted with software Versions 3.00, 3.01, 3.02 or 3.03 only and experiencing frequent GRAPHICS RESET alarms.

APPLICATION: If required.

OBJECT AND METHOD: To greatly reduce the amount of GRAPHICS RESET alarms that are being experienced on systems due to i960 Processor interrupt handling timing problems.

To achieve the above, replace the software with version 3.04 or later.

This modification supersedes DX9 and DX10, which are now withdrawn.

TIME REQUIRED: 1 hour on board

MINIMUM SPECIFICATION: **This upgrade requires the following minimum hardware configuration:-**

Display Processor PCB 65800811 issue 3 or higher
Radar Processor PCB 65800814 issue 4 or higher

PROCEDURE:

Note: Ensure anti-static precautions are taken when handling electronic assemblies and components.

- 1 Switch off the radar system and isolate it from the ship's supply.
- 2 Referring to the Ships Manual, Chapter 6, from the Processor Unit remove the Display and Radar Processor PCBs.
- 3 On the Display Processor PCB, fit the new Flash PCBs, items 2 and 3, ensuring the alignment arrows point together.
- 4 On the Radar Processor PCB, fit the new Flash PCB, item 1, ensuring the alignment arrows point together.
- 5 Referring to the Ships Manual, Chapter 6, re-fit the Display Processor PCB, and Radar Processor PCB and then re-assemble the Processor unit.
- 6 **The three Flash PCBs removed are to be returned to Mr J. Donovan at LMS, New Malden, U.K. Payment of invoice will be conditional on receipt of these PCBs. Use the label on this sheet as an address label and attach it to the Jiffy Bag.**

- 7 Restore ship's power and at the display :-
 - a) Select the 'SYSTEM' menu.
 - b) Select the 'SYSTEM STATUS' menu
 - c) Check the 'DISPLAY', 'GRAPHICS' and 'RADAR' versions are 3.05.
- 8 Access the Initialisation Mode and check the System Configuration, I/O Options, Remote Alarms and Transceiver Settings against the parameters recorded in the 'Initialisation and Commissioning CheckList' at the end of Chapter 4 in the original Ships Manual. (If necessary to re initialise follow the procedure in the Ships Manual, Chapter 4)
- 9 Reset the Video Input level, (See Ships Manual, Chapter 4, Section 8.4.2), even if SET OK is displayed
- 10 Ensure the 'Initialisation and Commissioning Checklist' in the Ships Manual, is filled in.
- 11 Finally check that the Radar operation is fully restored.

MANUAL AMENDMENTS:

Insert a copy of this Modification in the Ships Manual, 65800010B, Chapter 8, 'MODIFICATIONS'.

MATERIALS REQUIRED:

Item	Description	Code No	Qty
1	Radar Flash PCB	32FAA023	01
2	Graphics Flash PCB	32FAB023	01
3	Display Flash PCB	32FAC023	01

ADDRESS LABEL:

**Mr Jim Donovan (MOD DX12)
 Litton Marine Systems,
 118 Burlington Road,
 New Malden,
 Surrey KT3 4NR
 England**

(SHIPS NAME.....)