LITTON MARINE SYSTEMS: **FEBRUARY 2000**

MODIFICATION INSTRUCTION SHEET No DX/7   **Issue 2/Cat 1**
(SUPERSEDES FIELD MODIFICATION DX5)

EQUIPMENT AFFECTED:	BridgeMaster E EPA Processors, 65800P--- fitted with issue 1, 2 or 3 radar processors AND software versions 1.02, 1.03, 2.00, 2.02 or 2.04.
APPLICATION:	Mandatory, at next service
OBJECT AND METHOD:	To improve video presentation and enhance operation (if DX5 not previously actioned) and to activate the Graphics reset alarm function.

Fitting of version 2.05 software will provide:-
1.   Improved Guard Zone operation.
2.   Operation of A/C Rain & Sea, Gain, Man/Auto boxes after editing maps.
3.   Improved setting of turndown value for an Issue 4 Radar PCB.
4.   Improved Compass Alarm sensitivity performance.

Replace Radar Processor with Issue 4 or later

Replace Flash Assemblies 32FAA007 or 009, 32FAB007, 32FAC007 with 32FAA010, 32FAB010, 32FAC010 (Older versions of software with lower numbers eg:32FAA003 etc, can also be replaced)

NOTE: This Software also removes the hidden trails function.

TIME REQUIRED:	1 Hour + 2 Hours travelling time maximum

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, 65800010B, Chapter 6. From the Processor Unit remove the Display and Radar Processor PCBs.

3.   On the Display Processor PCB
a) Remove FLASH PCB's 32FAB007 and 32FAC007 and replace them with 32FAB010 and 32FAC010 respectively, ensuring the alignment arrows point together.
b) Ensure link LK6 is set 1-2.

4.   On the new Radar Processor PCB (65800815), place FLASH PCB (32FAA010) between

PLEL and PLEM, ensuring the alignment arrows point together.

5   Referring to the Ships Manual, 65800010B, Chapter 6, replace the Display Processor PCB and the new Radar Processor PCB and re-assemble the Processor unit.

6.   **The three FLASH PCB's and the old radar PCB are to be retained and returned to Mr. J. Donovan, LMS, New Malden, UK.**

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 2.05.

8   Check that Radar operation is fully restored.

9   Note:- Different gain settings are stored for 'MANUAL' and 'AUTO' modes. These settings may need adjusting after this modification.

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 Processor (Issue 4 or later)	65800815	01
2	Radar Flash PCB	32FAA010	01
3	Graphics Flash PCB	32FAB010	01
4	Display Flash PCB	32FAC010	01