

SPERRY MARINE UK
Service Bulletin No. 54 (Release 2)

Product: Decca BridgeMaster E series radars

Subject: Conversion of 340 Display, from a CRT type to FPD type Monitor

Marketing Information Bulletin No. 57 announced the introduction of the new 340 Flat Panel Display (FPD) Monitor for Deck Mounted 340 Display systems. This document describes the procedure for field retrofits.



340 Deck Mounted Display with type 65826L, L/MU, W or W/MU CRT Monitor



340 Deck Mounted Display with type 65823M (preferred) or 65823E (shown) FPD Monitor

IMPORTANT

The Display Software version **MUST** be **C4.06** or higher. If it is not then a software upgrade must be carried out. For details on Software upgrades and Hardware compatibility matters, see Marketing Information Bulletin No.56

Applicability

This procedure is applicable **ONLY** to the BridgeMaster E 340 range of Deck Mounted Displays fitted with type 65826L, 65826L/MU, 65826W or 65826W/MU type CRT Monitors. Also the Display software **MUST** be version C4.06 or higher.

THIS UPGRADE IS UNSUITABLE FOR ANY OTHER TYPE OF MONITOR VARIANT.

Method

This procedure replaces the entire CRT type Monitor with a 65823M (preferred) or 65823E FPD type Monitor. These Monitors are a fit, form and function replacement for the CRT Monitors listed with the added benefit of a high-resolution and high brightness screen. A buffered RGB Output is available as standard.

Parts/Tools/Time required

1 x 65823M FPD Monitor (65823E may be used)

General Service Engineer's tools

Approximately 3 hours to carry out the conversion plus the time for transporting the Monitors on and off the vessel etc.

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Procedure

1. Isolate the Radar from the Ship's Mains supply.
2. Referring to the Ship's Manual, 65800010B, Chapter 6, Section 3 (section as indicated)...
3. Remove the Control Panel (see manual, section 3.1.4) completely away from the Monitor and store in a safe place.
Ensure you make a note of where all the connectors go.
4. Access the Processor Electronics Unit (see manual, section 3.1.2) and disconnect the two cables from the rear of the Unit (power and video leads) to the CRT Monitor.
5. Undo the four M10 bolts and spring washers at the four corners at the base of the Monitor and store in a safe place. With suitable assistance remove the entire Monitor away from the pedestal.
WARNING: The monitor unit is extremely heavy.
6. Remove the four M6 cap head screws and washers and remove the FPD from it's housing and store in a safe place.
Take care not to damage the cables attached or the Brilliance Control.
7. Fit the FPD housing onto the pedestal and secure with the four M10 bolts and washers removed in step 5.
8. Fit the FPD onto the housing ensuring the cables from it are dropped down through towards the Processor Unit. Secure with the four M6 screws and washers.
9. Connect the Video cable from the FPD to SKS on the back of the Processor Unit. If an in-line filter is fitted to the video lead DO NOT remove. Connect the filter to SKS.
10. Connect the Earth lead from the FPD to a Earth point on the Processor Unit.
11. Connect the Mains lead from the FPD to a suitable Isolated Ship's Mains supply.
12. Re-fit the Control Panel and re-connect all the cables as noted in step 3.
13. Restore the mains supply, switch on and check for full Radar functions.
14. Secure the Processor Electronics Unit (if removed) and re-fit the Pedestal Cover.

Points to Note: These notes should be explained to the Ship's staff.

1. The brilliance control on the Control Panel (right hand edge) **is no longer used**. The FPD has it's own brilliance control on the front of the Monitor.
2. The Degauss 'soft key' function is no longer available as it is no longer required.
3. The Monitor Test Pattern may still be displayed but the 'soft key' functions are no longer effective.