

LITTON MARINE SYSTEMS UK
Service Bulletin No.19

Product: BridgeMaster E Series Radars

Subject: Degauss function fault finding

The degauss function is automatically activated 1 minute after the Display is switched on. After this, manual degaussing is possible via the System menu.

Note: Once the degauss function is selected, the word 'INHIBITED' will be displayed next to it for at least 30 seconds, which during this time the degauss function is not available.

To establish where the fault is carry out the following steps.

1. Select the 'Monitor Test' mode.
2. Select the 'Height' soft key.
3. Select the '-' soft key repeatedly. See if the height of the test pattern changes. If 'yes' then goto 5
4. If there is no change of the height then there is a fault with the Monitor Data signal line. Possible areas are:
 - a. Display Processor PCB **65800811** (not generating the data)
 - b. Backplane PCB **65800819** (bad contact between connectors)
 - c. I/O Panel **65800818** (AC Mains) or **65800821** (DC Mains) (bad contact between connectors, bad connections/soldering on pins of SKS, 15 way D connector)
 - d. Cable between SKS on I/O Panel to SKU on Monitor **65800512** (integral) or **65800507** (kit).
 - e. LK2 on CRT Controller PCB in wrong position. Check the position of LK2 on the CRT Controller PCB. This PCB is 'piggy backed' on the main CRT Drive PCB. The correct position is in 2-3.
 - f. Faulty CRT Controller PCB or CRT Drive PCB. Appropriate Drive/Base PCB kit : **658**611**. **=14(180), 20(250 Med Res), 21(250 Hi Res), 26 (340)
5. If the height does change then the Monitor Data is reaching the CRT Controller and it is functioning correctly. There are then two possibilities:
 - a. Degauss Coil may be O/C, S/C or connector fallen out. The coil is connected to PLZD on the CRT Drive PCB. Check to see if it is securely connected. Measure the coil's resistance. It should be approximately 25 ohms
 - b. Degauss circuit / control circuit faulty. The degauss circuit is part of the CRT Drive PCB. Momentarily short the pins of PLZN (located at the top edge of the PCB). This should activate the degauss circuit. If it does not, then the CRT Drive PCB is faulty. If it does, then the CRT Controller PCB is faulty. Appropriate Drive/Base Kit required. See 4-f above.

