

**MODIFICATION INSTRUCTION SHEET No AXA/1
(This supersedes AXA/1 Issue 4 for administrative purposes)**

Issue 5/Cat 1

EQUIPMENT AFFECTED: Transceiver Compatibility Unit, (TCU), 65841A, up to and including issue 7.
TCU Logic PCB 65841801 up to and including issue 7.

APPLICATION: At next Service.

OBJECT AND METHOD:

- a) TCU does not read the TxRx type from the DIL switches correctly. (TCU issue 2 and earlier)
- b) Incorrect tuning mode selection/operation. (TCU issue 2 and earlier)
- c) ISW comms incorrect for operating with 65642 ISU. (TCU issue 5 and earlier)
- d) Tuning volts need to be set to 0V when in slave mode to prevent ISW overload. (Issue 8 and earlier)

To correct the above on the Logic PCB replace U14 device type 32MAB008, 32MAB010 or 32MAB011 or 32MAB022 with device type 32MAB023.

TIME REQUIRED: 1 Hour

PROCEDURE:

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

- 1 Switch off the radar system and isolate from the ship's supply.
- 2 Remove the Transceiver Compatibility Unit top cover.
- 3 Referring to the Ancillaries Manual, 65800012, locate the Logic printed circuit board assembly, 65841801.
- 4 ENSURE that ESD precautions are observed. Using the extractor tool, item 2, carefully inserting the hook into the corner slots in turn, gently ease out, (this must be done in several small movements), and remove U14 , and replace with Item 1. NOTE the pin ONE orientation and ensure that the device is inserted correctly into the socket.
- 5 Referring to the Ancillaries Manual, 65800012, ensure the DIL switch settings are correct.
- 6 Replace the Transceiver Compatability Unit top cover and on the unit Type label mark with an indelible pen to indicate 'AXA/1-4' applied

- 7 Restore ship's power and check at the display :-
 - a) the correct Transceiver type is shown,
 - b) under the Tx Rx BIST menu the software issue is 1.7,
 - c) when the radar is transmitting, 'Manual' or 'AFC' Tuning control may be correctly selected.

- 8 Where appropriate check the 65642AA Interswitch now operates correctly.

MANUAL AMENDMENTS:

Not applicable.

IMPORTANT: PLEASE NOTE LINKING INSTRUCTIONS AS FOLLOWS

A WIRE LINK MUST BE FITTED BETWEEN TSE5 (ISW5) AND TSC8 (0V) TO ENSURE CORRECT OPERATION.

IF THE TCU IS INSTALLED BETWEEN A BME DISPLAY AND A 65642 INTERSWITCH THEN THIS LINK IS NOT NEEDED AS THERE IS ALREADY A CONNECTION TO TSE5.

MATERIALS REQUIRED:

Item	Description	Code No	Qty
1	Microcontroller U14	32MAB023	1
2	Extractor tool	MA00010389	1