

NR/L2/SIG/30014/G130/SS51
Non-Conceptual Test Plan
Install a New or Replacement SSI LDT Filter
Issue No. 01
Issue Date: 03/09/11
Compliance Date: 03/09/11

***** INDEPENDENCE EXEMPT *****

Safety:



The installation work shall be carried out by a competent person independent of the person undertaking the testing

Caution: This test plan covers the fitment of the LDT Filter between the LDT and its external wiring plug coupler only. If the LDT is fitted with an LDT Reset Unit, this shall be detailed in the Test Schedule. If equipment requires to be moved to provide sufficient space, or if any other modification is required to existing equipment, the work should be treated as a signalling alteration and thus subject to additional testing.



Includes:	LDT Filter type LF 01 for fitment to LDT type SS2501
Excludes:	Complex fitment cases.

BEFORE INSTALLATION OF NEW LDT FILTER

- 01 [Check](#) that sufficient space exists between the LDT plug coupler and apparatus case door (or other obstruction) to accommodate the LDT Filter without fouling doors, exposing wiring to chafing risk or obstructing access to any equipment.
- 02 [Check](#) the earthing provision within the equipment housing, in particular visually [Check](#) that an effective bonding system is in place between the rack holding the LDT and the main earth terminal. Deficiencies should be identified for corrective action.

Note: Tasks 01 and 02 shall be undertaken as part of the pre-planning process.

- 03 Where possible use a PTERTS to assess the error rate on both the datalinks for the controlling interlocking concerned. See NR/SMS/Test/089 sections 1 and 2. Defects shall be actioned.

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INSTALLATION OF NEW OR REPLACEMENT LDT FILTER

- 04 [Check](#) that the other datalink of the pair, the one not being worked on, is healthy and fully operational either by interrogation of the Technicians Terminal or by using a Data Link Interrogator to check the status bits for a nearby TFM.
- 05 [Check](#) that the LDT to be worked on is [Not Damaged](#) and that its indications are correct for normal operation.
- 06 [Check](#) that the new or replacement LDT Filter is [Not Damaged](#), is at Mod. 2 and has its security seal intact.
- 07 If the datalink to be worked on is operational, inform the signaller that work is taking place on one half of a duplicated signalling system before proceeding further.
- 08 Disconnect power to the LDT by removing its busbar fuse.
- 09 Undo the two LDT plug coupler securing thumb screws and disconnect it from the LDT.
- 10 [Check](#) that the LDT Filter 75-way plug couplers are free from foreign objects and that all pins are in good condition. Check also that the earth strap is securely fastened to the LDT Filter case.
- 11 Loosen the bottom left fixing screw on the LDT faceplate.
- 12 Hold the LDT Filter upright with the label facing away from the LDT, thread the earth strap through the bottom handle of the LDT and slide its spade connector between the compression washer of the loosened faceplate screw and the faceplate, then press the LDT Filter onto the 75-way plug coupler of the LDT. Some downward pressure will be required as the springs on the base of the LDT Filter are depressed against the LDT bottom handle.
- 13 Tighten the thumb screws on the LDT Filter. Re-tighten the faceplate screw to securely attach the strap to the LDT.
- 14 Insert the external wiring 75-way plug coupler into the matching plug coupler on the LDT Filter and secure using its thumb screws.
- 15 [Check](#) that the LDT retaining screws that clamp the top and bottom of the LDT to its supporting racking are secure and tight.
- 16 Reconnect power by refitting the LDT busbar fuse.
- 17 [Check](#) that the LDT indications are visible and correctly lit for normal operation.
- 18 [Check](#) that the assembly does not foul any doors, expose wiring to chafing risk, or prevent access to any equipment.