

NR/L2/SIG/30014/G130/SG52
Non-Conceptual Test Plan
Fitment of LED MSLs
Issue No. 01
Issue Date: 03/09/11
Compliance Date: 03/09/11

Safety:



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

Includes:	Replace an MSL with Dorman LED Modules.
Excludes:	All other types of signals.

BEFORE INSTALLATION WORK

- 01 [Check](#) replacement MSL is [Not Damaged](#) and is [Correct Type](#).
- 02 [Check](#) replacement MSL internal wiring [correlates](#) to the diagram.
- 03 [Check](#) the alignment of the current MSL and record on the diagrams to enable the new MSL to have the same alignment.
- 04 [Check](#) that existing wiring has [safe insulation](#).
- 05 [WIRE COUNT](#) and [correlate](#) existing MSL and all other affected circuits to the diagrams.
- 06 [Hand trace](#) any wire to be recovered to establish it is as the diagram indicates.
- 07 [INSULATION TEST](#) replacement MSL (Minimum 2 Mohm terminals to case).
- 08 [Check](#) that existing wiring is [correctly labelled](#).
- 09 [Check](#) existing MSL is [Isolated](#) from the power supply.

INSTALLATION WORK

- 10 Install cables and wiring as per the diagrams. When recovering wiring this shall be done one at a time so that the correct wire is recovered.

AFTER INSTALLATION WORK

- 11 [Check](#) replacement MSL is [correctly installed](#).
- 12 [Check](#) LED modules are correct type and colour and are correctly orientated for their application.
- 13 [Check](#) that hoods are [correctly installed](#).
- 14 [Check](#) wiring is replaced as labelled
- 15 [WIRE COUNT](#) and [correlate](#) replacement MSL and all other affected circuits to the diagram.

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- 16 [Test](#) new cables and wiring in the diagrams for continuity with affected links and fuses disconnected and affected relays removed.
- 17 [Check](#) any links and red dome nuts are correctly replaced and secure. Re-instate all links, fuses and relays removed for testing.
- 18 [Check](#) terminations are secure and suitably protected.
- 19 [Check](#) cable entry is secured and the MSL wiring is not liable to mechanical damage.
- 20 [Check](#) each LED unit has the correct supply voltage, and record on the record card.
- 21 [EARTH TEST](#) circuits if designed to be earth free.
- 22 [Test](#) MSL light proving (if fitted).
- 23 [Check](#) for correct alignment of MSL in accordance with the alignment recorded in item 03.
- 24 Function Test the MSL for correct operation, all directions of approaching trains.
- 25 [Check](#), or arrange for, [correct labelling](#) of the unit.
- 26 [Check](#) MSL door fits correctly (door seal intact, no case damage).
- 27 Secure door using 221 padlock.

End