

NR/L2/SIG/30014/G130/SG53
Non-Conceptual Test Plan
Fitment of LED Level Crossing Road Traffic Lights
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 a Level Crossing Road Traffic Light (Wig Wag) with Dorman LED Modules.
Excludes:	All other types of signals. Level Crossings that have Red Light Enforcement Equipment (RLEE).

BEFORE INSTALLATION WORK

- 01 [Check](#) replacement Wig Wag is [Not Damaged](#) and is [Correct Type](#).
- 02 [Check](#) replacement Wig Wag internal wiring [correlates](#) to the diagram.
- 03 [Check](#) the alignment of the current Wig Wag and record on the diagrams to enable the new Wig Wag to have the same alignment.
- 04 [Check](#) that existing wiring has [safe insulation](#).
- 05 [WIRE COUNT](#) and [correlate](#) existing Wig Wag 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 Wig Wag (Minimum 2 Mohm terminals to case).
- 08 [Check](#) that existing wiring is [correctly labelled](#).
- 09 [Check](#) existing Wig Wag is [Isolated](#) from the power supply.
- 10 Check HER relay contacts are not pitted or burnt, if any are, replace relay using separate Test Plan.

INSTALLATION WORK

- 11 Install cables and wiring as per the diagrams. When relays and bases are being changed wires shall moved one at a time to prevent any crossing of wires during the transfer, and when recovering wiring this shall be done one at a time so that the correct wire is recovered.

AFTER INSTALLATION WORK

- 12 [Check](#) replacement Wig Wag is [correctly installed](#).

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- 13 [Check](#) LED modules are correct type and colour and are correctly orientated for their application.
- 14 [Check](#) wiring is replaced as labelled
- 15 [WIRE COUNT](#) and [correlate](#) replacement Wig Wag and all other affected circuits to the diagram.
- 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 Wig Wag 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](#) Wig Wag light proving (if fitted) (disconnect in Wig Wag).
- 23 [Check](#) for correct alignment of Wig Wag in accordance with in accordance with the alignment recorded in item 03, and that this is correct for optimum visibility on the approach road.
- 24 Function Test the Wig Wag, so that the RECPR de-energises when each specific RECR de-energises.
- 25 [Check](#), or arrange for, [correct labelling](#) of the unit.
- 26 [Check](#) Wig Wag cable termination cover fits correctly and is secure.

End