
Defined Inspection Check - Check for No Damage

New and any adjacent equipment shall be inspected to *Check* that no damage or interference has taken place.

Visually *Check* that the item of equipment is not physically damaged. This includes obvious mechanical damage, dents, scrapes, cracks or misalignments. *Check* mechanical parts shall be to confirm they do not bind.

Check for signs of excessive contamination by rust, grease, verdigris or moisture, infestation by rodents, or any signs of metallic contamination.

Relays in particular shall be carefully examined (refer to [NR/L3/SIG/19272](#) [Signalling Equipment Workshop Engineering Notice [SIGWEN021] Signalling Relays] for further details of the listed conditions) and any found with the following conditions shall be replaced (using the Test Log process if necessary):

- Flaking plating on relay internal framework and components
- Ill fitting or warped / yellowing, damaged / cracked or loose covers
- Damaged or broken adjustment cards
- Presence of foreign bodies inside relay
- Presence of silver sulphide contamination
- Severe contamination, water.
- Heat damage
- Physical damage (other than cosmetic)
- Unused holes in case
- Damaged or poor condition internal wiring
- Misalignment or mechanical damage
- Damaged, incorrect or reconfigured pin code
- Defective or missing seals
- Defective or missing labelling
- For BR 930 style relays manufactured by GEC, AEI-GRS, GRS or SGE, check that lifting card retainers are fitted
- Storage exceeding 3 years

Wiring shall be visually examined to *Check* it is not damaged and the insulation is intact, particularly around crimps.

Insulation deterioration on existing wires occurs in two main forms. The insulation can harden, become brittle and in some cases crumble away. In other cases the inner core can soften to a liquid and ooze out through a split outer core. Immediately adjacent existing wiring likely to be disturbed by the work shall be examined for any such deterioration. If insulation is found to be defective the Tester in Charge shall be informed.

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Reference documentation**Company Standards**[NR/L3/SIG/19272](#)Signalling Equipment Workshop Engineering notice
(SIGWEN021) Signalling Relays**Specific Definitions**

Abbreviation	Definition
AEI-GRS	Associated Electrical Industries / General Railway Signalling
GEC	General Electric Company
GRS	General Railway Signalling
SGE	Siemens and General Electric Railway Signal Company Limited

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