

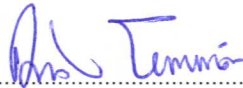
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Issue	3
Date	June 2007

Specification

Westinghouse Signals Style 63 Point Machine (SIGWEN002)

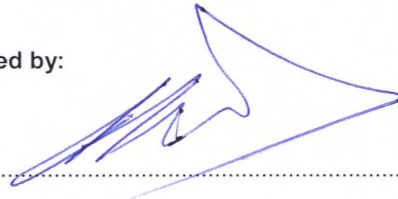
Endorsement & Authorisation

Endorsed by:



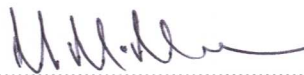
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Issue record

Issue	Date	Comments
3	June 2006	Major revisions

Implementation

From 2nd June 2007.

Compliance

This Network Rail Specification is mandatory and must be complied with by Contractors from 2nd June 2007.

When this Specification is implemented, it is permissible for all projects, which have formally completed GRIP Level 4, to continue to comply with the Issue of any relevant Network Rail Standards current when GRIP Level 4 was reached and not to comply with requirements contained herein unless the designated Head of Signal Engineering has stipulated otherwise in the accompanying Briefing Note.

Where the Head of Signal Engineering has specified that all projects will comply with the requirements, specific authority not to comply can be sought in the usual manner using the appropriate non-compliance authority processes described in Network Rail Standard, [NR/SP/STP/045](#) Managing the Process for Non-compliance Authority (formerly RT/LS/P/045).

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1 Purpose

This document advises Network Rail's suppliers who manufacture, repair or service Westinghouse Signals Style 63 point machines of additional/revised processes to be applied before the equipment is released for re-use on Network Rail's infrastructure.

2 Scope

This document applies to Westinghouse Signals Style 63 point machines for use on Network Rail's infrastructure and is supplementary to manufacturing, repair or servicing standards.

3 Reference documentation

[NR/GN/SIG/19002](#) Signalling Equipment Technical Advice Notice (SIGTAN002) - Westinghouse Signals Style 63 Point Machine

4 Definitions

SIGTAN Signalling Equipment Technical Advice Notice

SIGWEN Signalling Equipment Workshop Engineering Notice

5 Identification of point machine sub-assemblies

Servicing Agents are required to maintain records which uniquely identify the principal sub-assemblies of the Style 63 point machine. This is to include the following items:

- motor
- circuit controller
- machine carcass

Labelling and identification should be in accordance with [NR/GN/SIG/19265](#) (SIGWEN014) Labelling of Signalling Equipment.

Servicing Agents are also required to maintain records of equipment servicing/overhaul dates and, where required, a copy of the Workshop Test Certificate.

6 Replacement of detector pushrods

Arising from an incident in 1992, all new and serviced machines were fitted with detector pushrods of reduced height and width up until late 1994. These modified pushrods are identified by being painted RED on their upper surface - the original pushrods had a dark grey phosphate finish.

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After discussion with Westinghouse Signals regarding the attainment of the 2mm minimum open detection contact gap, agreement has been reached to revert to the original sized pushrods with immediate effect on all new/serviced machines. The new style grey pushrods have a split pin inserted into a blind hole to prevent the pushrod being installed incorrectly.

Whilst RED pushrods may remain in service provided the minimum open detection contact gap is maintained, all machines henceforth are to be equipped with originally sized grey pushrods during workshop servicing. The same will apply to new-build.

7 Overhaul & supply of circuit controller sub-assemblies

The following will apply to all Style 63 circuit controllers:

- Only circuit controllers with a metal chassis and quick-acting motor cut-off contacts may be overhauled and supplied.
- The completed circuit controller will require to have its contacts set (see Appendix A).
- It is not the intention to carry out any safety critical adjustments on site. **All safety critical adjustments will be made in the workshop.**
- A fully completed Workshop Test Certificate (see Appendix B) is to be included in the packaging of each individual circuit controller.

Where circuit controllers are supplied other than as an integral part of an assembled point machine, the following additional requirements will apply:

- Two new unused locking plates are to be included in the supplied package.
- Two new grey pushrods to be included in the supplied package.
- An A4 copy of the current issue of [NR/GN/SIG/19002](#), suitably packaged in a clear plastic envelope, is to be included in the packaging of each individual circuit controller.
- The assembly is to be packaged such that it will not sustain damage as a result of a free-fall drop of 500mm onto a concrete surface in any orientation.
- The transport case should be rigid and security sealed with adequate labelling identifying the contents. The case should be reusable so that it can be used to return the faulty circuit controller.

8 Replacement of point machine motor brushes

As a result of an investigation (Technical Investigation Report 94005) into sticking point motor brushes, due to brush holder distortion, it will be necessary for the