

TECHNICAL INSTRUCTION

TI 089
Issue 1
April 2008
Expires: N/A
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NETWORK RAIL - SIGNAL ENGINEERING

Vortok 'Gatekeeper' - SMS & SMTH Items

Relevant Standard: NR/L2/SIG/10663 & NR/L3/SIG/11231

Purpose

This TI provides maintenance staff the necessary SMS & SMTH items for the 'Gatekeeper' system.

Scope

This TI provides the SMS & SMTH items for the 'Gatekeeper' system installed on Network Rail's infrastructure.

Background

Gatekeeper is a permanently installed track circuit disconnection device, designed and developed for the express purpose of rapidly taking possessions on track. There are no user serviceable parts; servicing requirements are a quarterly external visual check and an annual functional test.

Abbreviations & Definitions

TI – Technical Instruction (NR/L2/SIG/11120)

SMS – Signal Maintenance Specifications

SMTH – Signal Maintenance Testing Handbook (NR/L3/SIG/11231)

PLB – Possession Limit Board

Compliance Requirements

The requirements of this TI shall be applied with immediate effect.

Action Required

Maintenance staff who carry out maintenance on the 'Gatekeeper' system shall follow the SMS & SMTH items as shown in this TI.

Staff to be Briefed

All staff who carry out maintenance on the 'Gatekeeper' system.

Expiry Date of TI

N/A – To be incorporated into the next issue of the SMS & SMTH.

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SMS

NR/SMS/TC00 Track Circuits : General

New section to be added : **Track Circuits Fitted With Gatekeeper Device**

Gatekeeper is a permanently installed track circuit disconnection device, designed and developed for the express purpose of rapidly taking Possessions on track. There are no user serviceable parts; servicing requirements are a quarterly external visual check and an annual functional test.

NR/SMS/TC01 Track Circuit Equipment

SERVICE A

New clause to be added to the spec as follows:

5. Track Circuits Fitted With Gatekeeper Device

- 5.1 *Check* that all the fasteners on the unit and/or the sleeper attachment clips/screws are present and secure.
- 5.2 *Check* that all cables are undamaged and show no signs of wear.
- 5.3 *Check* that the unit is secure on the mounting beam (try to twist the central box).
- 5.4 *Check* that the main unit has not been subjected to impact (sufficient to distort the casing or fracture the mounting).
- 5.5 *Check* padlock(s) and covers for security.

SERVICE B

New clause to be added to the spec as follows:

6. Track Circuit Tests

Note: Signaller's permission shall be obtained before operating the track circuit and placing the PLB – Possession Limit Board. Note: For maintenance testing, a test spigot may be used instead of the PLB.

6.4 GATEKEEPER DEVICE MAINTENANCE FUNCTION TEST (test no 301)

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