Ref:	**NR/L3/SIG/11303/2Q05**
Issue:	2
Date:	4 September 2010
Compliance date:	4 December 2010

Level 3 Module

Signalling Installation – Train Detection: Treadles: Silec Type

Endorsement and Authorisation

For endorsement and authorisation, please refer to NR/L3/SIG/11303.

This module is a reformatted version of the previous Signalling Installation Handbook with no change to the content other than correction of terminology.

It represents historic best practice which may no longer be relevant.

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Published and Issued by Network Rail, Kings Place, 90 York Way, London. N1 9AG.

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Issue record

Issue	Date	Comments
2	September 2010	Reformatted version of previous document incorporating the text of the installation handbook.
1	August 2000	First issue.

Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail and its contractors if applicable from 4 December 2010.

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

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1 Description

Silec treadles come in two types:

- *Cautor*: Single arm non-directional.
- *Forfex*: Double arm directional. (There is a different version for each direction.)

Internal views of the two types are shown in Figures 1 and 2.

Models have changed slightly over the years. These instructions refer to the latest version, known as the “1969”.

Arrangements for fitting to UIC60 rail are not yet available. Ask your SM(S) for details.

2 Installation On Flat Bottom Rail

Refer to Figure 3.

From the outside edge of the rail clamp remove:

- 16 mm nuts (item 3)
- Adjusting butt-plates (item 11)
- Rail clip (item 4).

Loosen the 16mm nuts on the inside of the rail clamp.

Place the clamp under the rail. Take care that the adjustable butt-plates do not go under the rail.

Insert the outside 16 mm bolts through the butt-plates, clamps, etc. Apply star washers and nuts, then tighten. The butt-plates can be turned to any of the four positions for adjustment. (Butt-plates are not required for 110 lbs BS FB rail.)

Remove:

- Nuts (items 12 & 15)
- Top washers (item 10)
- Top rubber washers (item 7) from the four 12mm bolts (item 14) on which the treadle is mounted.

Mount the treadle on top of the four bottom rubber washers (item 7). Check that there is 10mm horizontal distance from inside the head of the rail to the end of the trip arm. Measurement is easier if a setting gauge is used.

To obtain the proper horizontal position, move the whole of the bracket by adjusting the butt-plates (item 11).

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