

Procedures

NPR 744 Manually operating electro pneumatic points

Description

This document describes the procedure for manually operating electro pneumatic points.

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Introduction

Some electro pneumatic points can be operated manually at the trackside by a qualified worker, others can only be manually operated by a Signals Maintenance Representative.

Electro pneumatic points that can be operated manually at the trackside by a qualified worker are operated by push buttons located on the Emergency Operation Lock (EOL) control box.

The push buttons are enabled by either:

- a switch located in the EOL control box, or
- a key that is obtained from an EOL cabinet located near the points.

Note

Electro pneumatic points machines must not be operated manually without the Signallers authority.

Key-operated points

Switching to trackside control

Qualified Worker

- 1 Find the correct EOL cabinet for the points and unlock it with an SL key.
- 2 If there are instructions in the cabinet to help you to operate the points, read and follow them.
- 3 Turn the EOL key from **LOCKED** to **UNLOCKED**. Take it from the cabinet. Removing the key:
 - switches the points machines to trackside control, and
 - sets the protecting signals at **STOP**.

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- 4 Check the key label to make sure it is the correct key.

Manually operating the points

Qualified Worker

- 1 Check the labels of the points it is necessary to operate.
- 2 Locate the corresponding labelled control box for the points. Unlock it with an SL key.
- 3 Insert the EOL key, and give the key a quarter turn in the rotary switch.

Note

There is a 60 second delay before the **NORMAL** and **REVERSE** buttons in the control box can be used.

- 4 Push and hold the **REVERSE** or the **NORMAL** button, for at least 3 seconds to move the points to the intended position.

Note

If there are several electro pneumatic points machines at a crossover, air pressure in the system operates all points machines together.

- 5 Check points have operated to the intended position.
- 6 Get instructions from the Signaller.
- 7 If necessary, clip and lock the points.

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FIGURE 1: Emergency Operation Lock (EOL) cabinet.

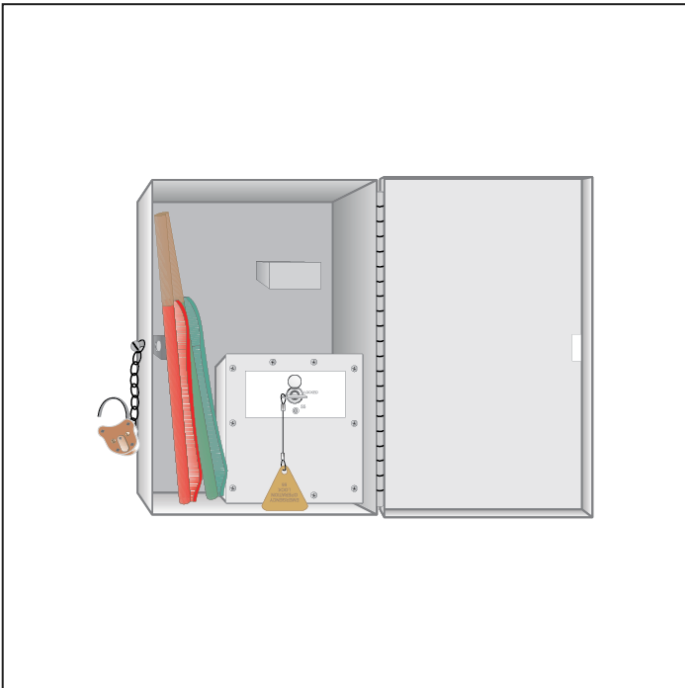
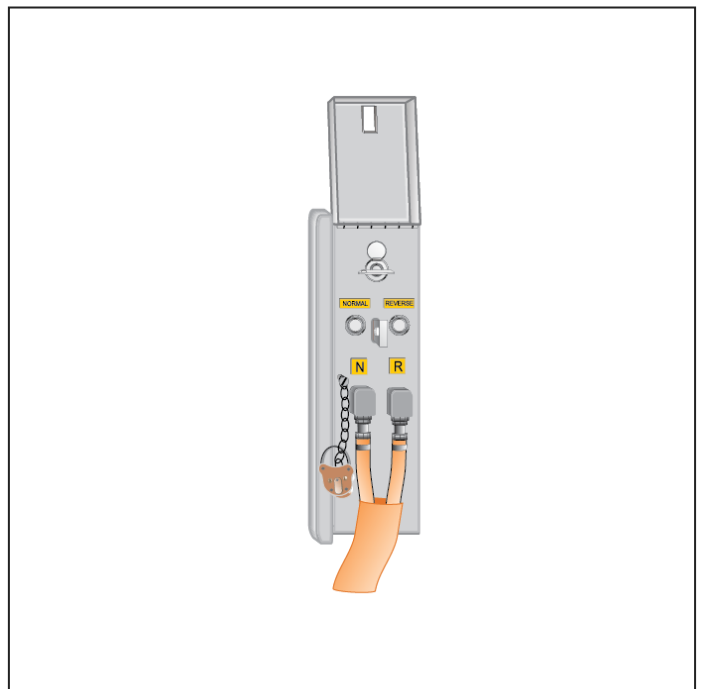
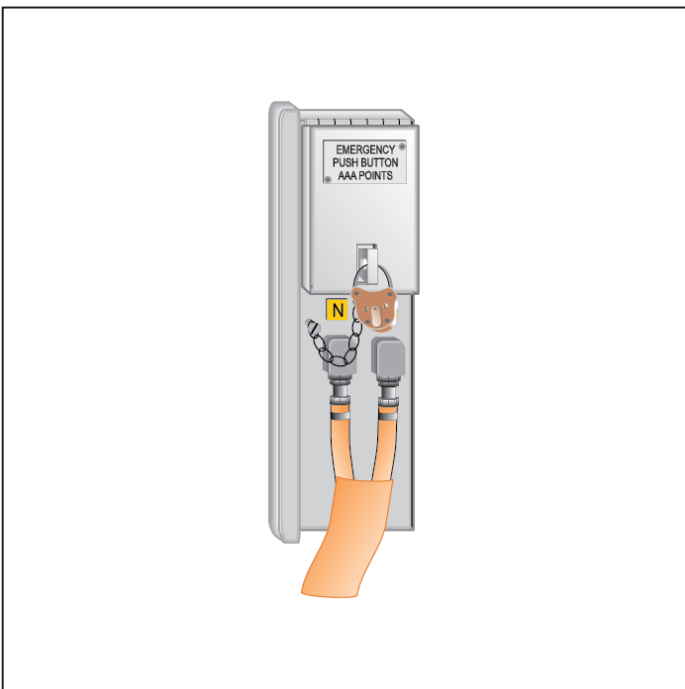
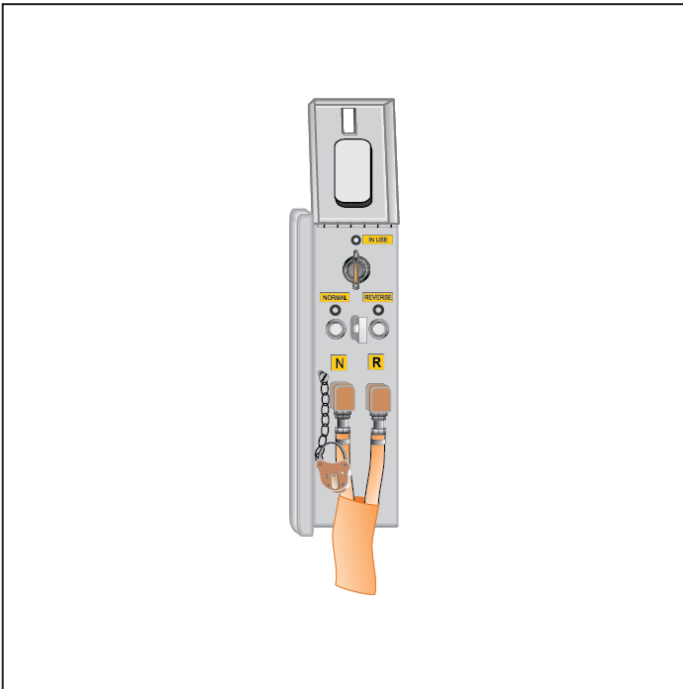


FIGURE 2: Control box operated by an EOL key.



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Returning to signal box control

Qualified Worker

- 1 Remove the EOL key from the rotary switch.
- 2 Lock the control box.
- 3 Return the EOL key to the cabinet.
- 4 Turn the EOL key to the LOCKED position and lock the cabinet.
- 5 Ask the Signaller to test the points.
- 6 Confirm with the Signaller that the points operate correctly.
- 7 If the points do not operate correctly, get instructions from the Signaller.

Switch-operated points

Manually operating the points

Qualified Worker

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- 1 Check the labels of the points it is necessary to operate.
- 2 Locate the corresponding labelled control box for the points. Unlock it with an SL key.

Note

If there are several electro pneumatic points machines at a crossover, air pressure in the system operates all points machines together.

- 3 Turn the **IN USE** switch a quarter turn clockwise and wait for the white indicator light above the switch to illuminate.

Note

There is a 60 second delay before the **NORMAL** and **REVERSE** buttons in the control box can be used.

- 4 Push and hold the **REVERSE** or the **NORMAL** button, for at least 3 seconds, to move the points to the intended position.
- 5 Check points have operated to the intended position.
- 6 Get instructions from the Signaller.
- 7 If necessary, clip and lock the points.

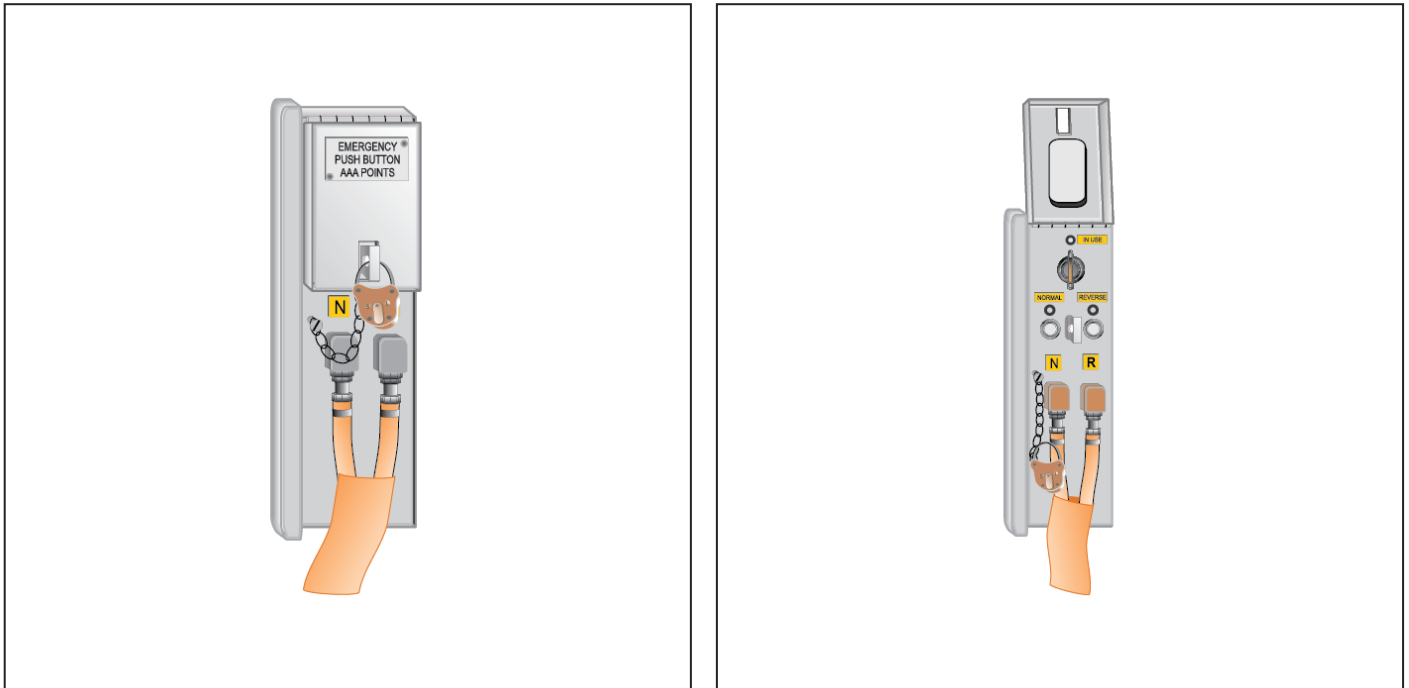
Warning

The N and R lights in the control box do not guarantee the points have operated to the intended position. Points must be checked to ensure they have operated to the intended position.

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FIGURE 3: A switch-operated control box.



Returning to signal box control

Qualified Worker

- 1 Give the **IN USE** switch key a quarter turn anti-clockwise.
- 2 Check that the white indicator light goes out.
- 3 Lock the control box.
- 4 Ask the Signaller to test the points.
- 5 Confirm with the Signaller that the points operate correctly.
- 6 If the points do not operate correctly, get instructions from the Signaller.

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NPR 707 Clipping points

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