

ANPR 741

Manually Operating Electrohydraulic Points

Applicability

NSW

SMS

Publication Requirement

External Only

Document Status

Issue/Revision #	Effective from
2.0	11 October 2015

Introduction

If the *Signaller* has given authority, BREL Clamplock electrohydraulic points machines *may* be operated manually with hydraulic handpumps.

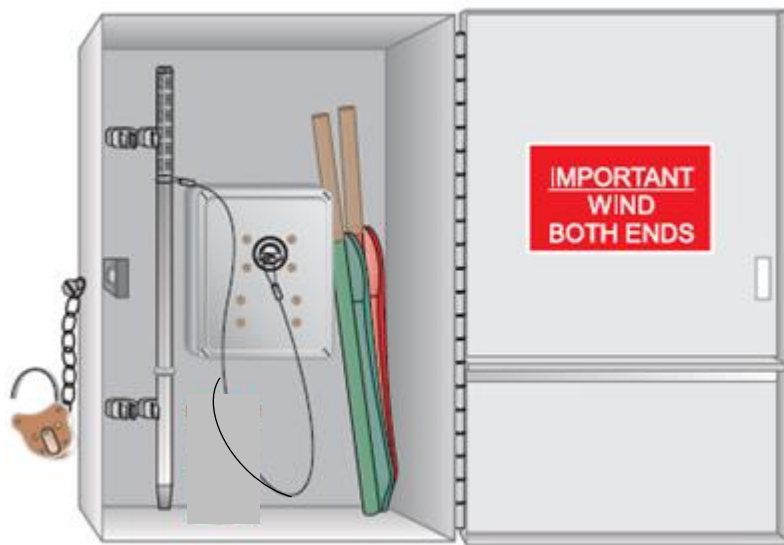
Emergency Operating Lock (EOL) cabinets at the *points* contain one or more Union switchlocks. A pumphandle is attached to each Union key by a wire cable.

Switching to trackside control

Qualified Worker

1. Find the correct EOL cabinet for the points.
2. Unlock the cabinet with an SL key.

Figure ANPR 741-1

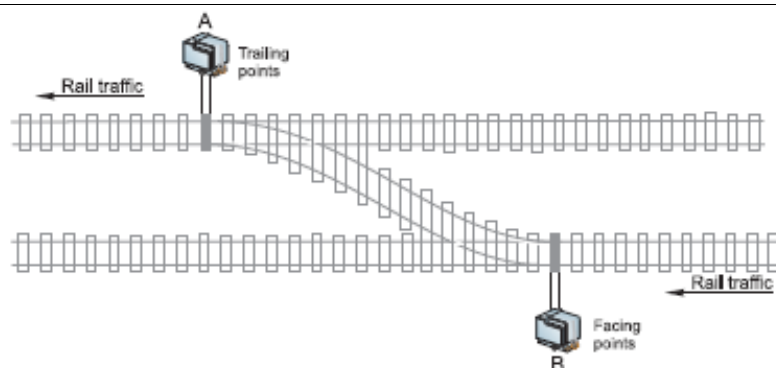


Emergency Operating Lock (EOL) cabinet

3. If there are instructions in the cabinet to help you to operate the points correctly, read and follow them.
4. If there is a black rotary switch, give it a quarter turn.
5. Give the Union keys a full turn in the correct order.
6. Take the pumphandles and keys from the cabinet.
Removing the Union keys:
 - switches the points machines to trackside control, and
 - sets the protecting signals at STOP.
7. Check the Union key labels to make sure you have the correct ones.
8. Make sure that protecting signals are at STOP.

Manually operating the points

Figure ANPR 741-2



Crossover operated by two electrohydraulic points machines

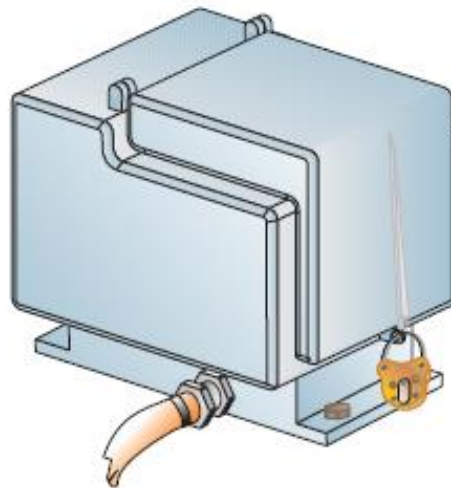
Qualified worker

1. Check the position of the points at each points machine.
Make sure that your changes set the correct *route*.



Operate points machines at crossovers in order from the trailing end to the facing end.

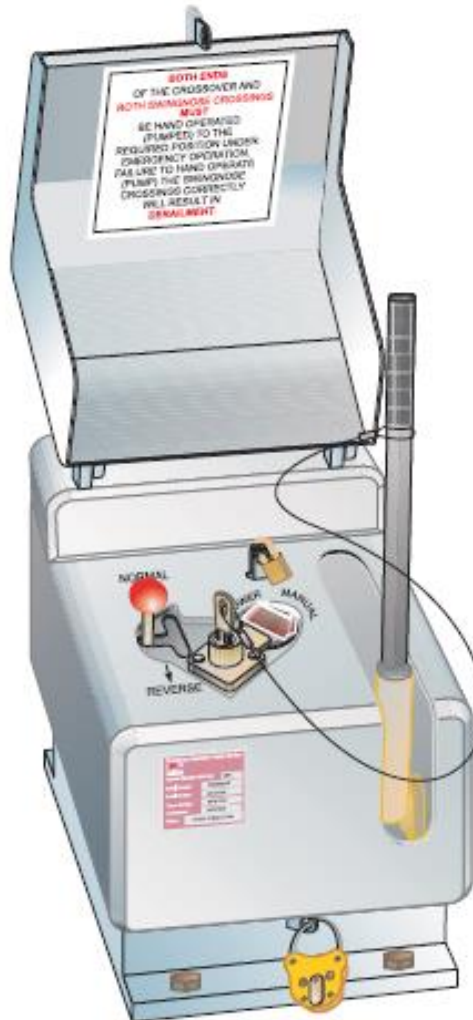
Figure ANPR 741-3



Closed and locked handpump unit

2. Unlock the handpump unit with an SL key.
3. Turn the Union key a quarter turn in the Union lock to release the rotary cutout switch.
4. Turn the rotary cutout switch from POWER to MANUAL.
5. Put the pumphandle into its sleeve in the handpump unit.
6. Set the red direction-control valve knob to NORMAL or REVERSE. Hold it there.

Figure ANPR 741-4



Handpump unit with pumphandle inserted

7. Work the pumphandle back and forth to:
 - free the points-locking mechanism, and
 - move the points.
8. If the points cannot be freed, tell the Signaller.
9. Watch the points moving as you work the pumphandle.
10. Continue to pump until:
 - the switch rail is hard against the stock rail, and
 - the points lock into place, and
 - the resistance to pumping increases.

11. Check that the points-locking mechanism has engaged. If the mechanism does not engage, tell the Signaller.
12. Get instructions from the Signaller.

Returning to signal box control

Qualified Worker

1. Turn the rotary cutout switch from MANUAL to POWER.
2. Give the Union key a quarter turn to secure the rotary cutout switch. Take out the pumphandle and Union key.
3. Lock the handpump unit.
4. Return the Union key and pumphandle to the EOL cabinet. Put the Union key into the Union switchlock. Turn the switchlock to LOCKED.
5. If there is a black rotary switch, give it a quarter turn.
6. Lock the EOL cabinet.
7. Ask the Signaller to test the points.
8. Confirm with the Signaller that the points operate correctly.
9. If the points do not operate correctly, get instructions from the Signaller.

Related ARTC Network Procedures

ANPR 703	Working using controlled signal blocking
ANPR 707	Clipping points
ANPR 711	Lookouts
ANPR 721	Spoken and written communication
ANPR 740	Responding to faulty points

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