

Conductor Rail Maintenance

Scope

Includes:
Excludes:

Preparation

Tools, equipment and plant items required but not limited to:

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Work planning considerations:

- Electrification requirements

Method

1. Carry out inspection to find faults.
2. Check condition of conductor rail and expansions gaps (figure of eight's). The bonds should be neither over-stretched or squashed. Rail movement might be required if either of these conditions are present
3. Check that there is are no obstructions between the conductor rail and running rail particularly bond wire out of position or rubbish. Take care when adjusting bonds or removing rubbish as contact with conductor rail could be dangerous. The use of an insulated tool or a trough is essential.
4. Tighten renew collars on conductor rail pots/and check conditions of conductor pots. Replace if required.
5. Use a calibrated gauge to measure both the offset distance and the vertical position relative to the adjacent running rail
6. Place step block on sleeper under conductor rail. Place wooden lifting bar on step block and when ready lift conductor rail.
7. Insert or remove as appropriate the required packing pieces on conductor rail pot.
8. Make sure staff are aware of the lowering operation about to take place and then slowly lower conductor rail.
9. Check gauge - make sure it is to require RT standard. (Dimensions are as follows)
 - Lateral distance from Running Edge to centre line of Conductor Rail is 330mm +/- 20mm
 - Vertical height above running Rail is 76mm + 10 or – 3mm
10. Tidy site and clear all surplus materials

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References

Supports Ellipse Standard job

- 009081 Track - Guard rail - maintain

If applicable refer to the following associated documents:

- NR/SP/TRK/001 Inspection and Maintenance of Permanent Way
 - NR/WI/TRK/001 Track Inspection Handbook
 - NR/GN/TRK/7001/TWI2G073 How to inspect conductor rail
 - NR/GN/TRK/7001/TWI2P044 How to maintain guard rail
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- Risk Control Sheets
 - NR/L3/MTC/0002/TK000 Generic Track Risks