

Adjustment Switch – Reset Overlap

Scope

Includes: Adjustment switches only
Excludes: All other types of switches

Preparation

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

- Pencil/scribe
- Rail Wax crayon/marker
- Tape Measure (3 metre)
- Note book
- Approved rail thermometers
- Fastenings extractors, hammers, spanners, pad scrapers and bars
- Torque wrench
- Shovels
- Jacks
- Top hat spanner for adjustment switch bolts and chair screws

Work planning considerations:

- Possessions/isolation requirements
- Bonding arrangements
- Associated work for expansion gap
- Associated work in CWR

Method

1. Measure rail temperature and determine correct overlap
2. Release fishplates on jointed side and/or cut into CWR
3. Un-clip rails back to adjustment switches
4. Release clamp plate bolts, adjust one pair of rails to correct overlap and refasten rails on this side
5. Release clamp plate bolts on opposite side, adjust to correct overlap ensuring that switches are square across gauge and refasten rails
6. If necessary, remove the straps, open out cribs & reposition timbers so that the blades are correctly centred within the clamp plates
7. Lubricate blades & clamp plate bolts as required
8. Tighten clamp plate bolts & refit straps
9. Adjust rail joint expansion gaps and re-tighten fishplates and/or weld up CWR as required
10. Box in ballast in cribs and on shoulders and trim to standard profile
11. Tidy site of all surplus material/scrap
12. Record overlaps, rail temperatures and date then forward to the Line Manager.

Adjustment Switch – Reset Overlap

References

Supports Ellipse Standard job

- 009070 Adjustment switch – reset overlap

If applicable refer to the following associated documents:

- NR/SP/TRK/001 Inspection and maintenance of Permanent Way
- NR/SP/TRK/0011 Continuous Welded Rail (CWR) Track
- NR/L3/TRK/002/F06 Track – Adjust Rail Expansion Gaps
- NR/GN/TRK/7001/TWI2P013 How to understand stress
- NR/GN/TRK/7001/TWI2P012 How to adjust adjustment switches
- Risk Control Sheets:
- NR/L3/MTC/0002/TK000 Generic Track Risks
- NR/L3/MTC/0002/TK405 Adjustment switch – Maintain/Reset