

S&C – Manual Alignment

Scope

Includes: S&C Timber Layouts
Excludes: Concrete Bearer S&C, Plain Line, Adjustment Switches, longitudinal timbers & slab track

Preparation

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

- Shovels
- Slueing Jacks
- Bars
- Spanners
- Impact Wrench
- Approved rail thermometer

Work planning considerations:

- Check site to determine type of materials required
- Design scheme
- OLE alignment
- Clearances
- Signalling requirements
- Follow up stressing requirements
- Weather precautions

Method

1. Determine area of layout requiring slue.
2. Dig out ends of bearers to be slued.
3. Remove lateral resistance end plates if fitted.
4. If slueing jointed track, loosen fishplate bolts to allow expansion gaps to be used to accommodate movement.
5. If design slues are to be implemented check design against datum rails or pegs.
6. Use slueing jacks and bars to slue track as required. If slues of more than 10mm are required complete slue with multiple passes.
7. When slueing through switch blade area do not attempt to use jacks or bars to slue an open switchblade.
8. Refit lateral resistance end plates.
9. Back fill, compact and re-profile ballast as required.
10. Remove any waste materials from site.

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References

Supports Ellipse Standard job

- 009148 S&C – Manual Alignment

If applicable refer to the following directly associated documents:

- NR/SP/TRK/001 Inspection & Maintenance of Permanent Way
- NR/SP/TRK/102 Track Construction Standards
- NR/SP/TRK/0011 Continuous Welded Rail (CWR) Track
- NR/L3/TRK/002/B03 Ballast - Regulate – Manual
- NR/L3/TRK/002/F18 Track – Manual Slueing
- NR/GN/TRK/7001/TWI2T021 How to slue track manually
- NR/GN/TRK/7001/TWI3T022 How to plan and carry out slueing
- NR/GN/TRK/7001/TWI3T005 How to design slueing

- Risk Control Sheets:
- NR/L3/MTC/0002/TK000 Generic Track Risks
- NR/L3/MTC/0002/TK410 Manual slueing