

S&C Renew Crossing

Scope Includes: All types of fixed crossings.
Excludes: Swing nose crossings.

Preparation

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

- Approved rail thermometer
- Generators
- Spanner
- Shovel
- Pan Puller
- Keying Hammer
- Jack
- Heel/Slewing Bar
- Calibrated Torque Spanner
- Set Square
- 30m Tape Measure
- Track Gauge
- Timber battens
- Suitable Lifting Equipment
- Lifting Beam
- Impact Wrench
- Stressing Kit
- Rail Saw or disc cutter
- Rail Drill
- Sleeper Drill (with correct drill bits)
- Cold Bolt Hole Expansion Equipment

Work planning considerations:

- Check existing components correct to the design
- Manual or Machine Assisted Installation
- Lifting Plan
- Replacement of associated Check Rails
- Replacement of associated baseplates
- Signalling Requirements
- Traction Requirements
- Delivery point for S&C
- Layout Stressing Requirements
- Welding Requirements

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Method

1. Check new crossing dimensions match the requirements.
2. Check crossing angle, baseplate type and configuration, measure leg lengths and splay distances.
3. Ensure signalling equipment is disconnected.
4. Ensure traction bonds (where applicable) are disconnected.
5. Fit continuity bonding.
6. Position new crossing adjacent to existing crossing on timber battens. Approximately aligning the crossing nose.
7. Check the orientation and alignment of crossing.
8. Where applicable, measure (twice) and mark cutting in locations.
9. Remove fishplates and/or cut rail at marked locations.
10. Unscrew/Unclip base plates.
11. Remove existing crossing.
12. Where applicable, pull through timbers; plug, coil or treat existing holes.
13. Move new crossing into position.
14. Check that all leg ends line up with corresponding closure rails.
15. Ensure the crossing nose is the correct distance from switch toes/adjacent crossing.
16. Measure gauge throughout crossing and adjust to correct.
17. Where applicable, insert steel packs.
18. Fasten new crossing to timbers/bearers.
19. Measure check rail dimensions and change/adjust check rails as required.
20. Clean and dry all bolts and torque up. Exposed ends on bolts can be lubricated to enable threads to be protected for any later removal.
21. Fit new fishplates or weld and stress the legs of the crossing.
22. Lift and pack fishplated joints or welds as required.
23. Remove temporary bonding, if fitted.
24. Ensure traction bonds (where applicable) are reconnected.
25. Ensure signalling equipment is reconnected.
26. Remove waste and materials from site.