

S&C Renew Half Set of Switches

Scope Includes: All types of switches
Excludes: Adjustment switches

Preparation

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

- Approved rail thermometer
- Generators
- Spanner
- Shovel
- Pan Puller
- Keying Hammer
- Duff 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 type of drill bit)
- Cold bolt hole expansion equipment

Work planning considerations:

- Manual or machine assisted installation
- Lifting plan
- Additional closure or belly rails
- Signalling requirements/attendance
- Traction bonding requirements
- Point heating requirements
- Delivery point for S&C
- Layout stressing requirements
- Welding requirements
- Soleplate renewal requirements

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Method

1. Check dimensions of the new switch matches requirements.
2. Check switch type and measure switch fronts and stock rail length.
3. Ensure signalling equipment is disconnected.
4. Ensure traction bonds (where applicable) are disconnected.
5. Fit continuity bonding.
6. Ensure point heating equipment is disconnected and removed.
7. Install temporary bonding as required.
8. Temporarily secure free switch blades on both existing $\frac{1}{2}$ sets.
9. Position new $\frac{1}{2}$ set in four foot, approximately aligning switch toes with existing switch, and support on timber battens.
10. Where applicable, measure (twice) from switch toe and mark cutting in locations.
11. Remove fishplates at toes and heel of switch or cut rail at marked locations.
12. Unscrew/Unclip base plates from bearers.
13. Where applicable, remove chairs and baseplates and inspect for damage before re-use.
14. Remove existing $\frac{1}{2}$ set; with lifting equipment.
15. Where applicable, pull through timbers; plug, coil or treat existing holes.
16. Where applicable, refit chairs and baseplates. Move new $\frac{1}{2}$ set into position.
17. Align switch toes with opposite $\frac{1}{2}$ set.
18. Free secured switch blades and check for hogging/cripple.
19. Measure gauge throughout switch and adjust to correct, check alignment through S&C.
20. Where applicable, install heating pads.
21. Fasten new $\frac{1}{2}$ set to timbers/bearers.
22. Lubricate and correctly torque all bolts.
23. Fit new fishplates or weld heel of switch.
24. Fit and adjust stretcher bars (S&T support required).
25. Where applicable, stress, and fit new fishplates or weld switch fronts.
26. Lift and pack fishplates or welds as required.
27. Where applicable, ensure slide chair rollers (S&T support required) are adjusted or apply lubricant.
28. Remove temporary bonding, if fitted.
29. Ensure the points heating is reconnected.
30. Ensure all traction bonds (where applicable) are reconnected.