

## Track - Pull Through/Turn & Plug Timbers

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### Scope

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

### Preparation

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

- Shovels
- Jacks
- Bars
- Timber Nips
- Impact Wrench
- Drill or auger
- Pan Puller
- Ferrules
- Coachscrews
- Spikes
- Plugs

Work planning considerations:

- Check site to determine type of materials required.
- Signalling requirements
- Traction requirements.
- Weather precautions.
- Gauge correction as required.
- Effects to CRT in CWR

### Method Pull Through and Plug Timbers

1. Arrange for the removal of signalling or traction bonding equipment if fitted to the affected timber.
2. Remove coachscrews/spikes/through bolts/rail anchors.
3. Pull back ballast from around the timber to allow it to be pulled out.
4. Remove lateral resistance end plates if fitted.
5. Ease the baseplates/chairs from the timber.
6. Use timber nips to pull through the timber.
7. Ensure the timber is pulled through enough to allow the new holes to be no closer than 75mm (3") to the existing holes and are clear of any indentation.
8. Ensure there is at least 150mm (6") of timber from the outside edge of the baseplate/chair.
9. Plug existing timber holes.

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10. Drill new holes and refasten coachscrews/spikes/through bolts/rail anchors.
11. Refit lateral resistance end plates if fitted.
12. Box in timber and re profile ballast.
13. Remove any waste materials from site.

### Method Turn and Plug Timbers

14. If Signalling or traction bonding equipment is fitted to the affected timber arrange to have it removed by the appropriate department.
15. Remove coachscrews/spikes/through bolts/rail anchors.
16. Pull back ballast from around the timber to allow it to be pulled out.
17. Remove lateral resistance end plates if fitted.
18. Ease the baseplates/chairs from the timber.
19. Use timber nips to pull out the timber without disturbing the consolidated base under the timber.
20. Once the timber is removed plug holes and turn over.
21. Carefully replace the timber using timber nips. Ensure the ballast stool remains undisturbed.
22. If the timber does not slide under the baseplates/chairs, lower the ballast stool by scarifying.
23. Ensure there is at least 150mm (6") of timber from the outside edge of the baseplate/chair.
24. Drill new holes and refasten coachscrews/spikes/through bolts/rail anchors.
25. Refit lateral resistance end plates if fitted.
26. Box in timber and re profile ballast.
27. Remove any waste materials from site.

### References

Supports Ellipse Standard job

- 009099 Track - Pull Through/Turn & Plug Timbers
- 009145 S&C - Pull Through/Turn & Plug Timbers

If applicable refer to the following associated documents:

- NR/SP/TRK/001 Inspection & Maintenance of Permanent Way
- NR/SP/TRK/0011 Continuous Welded Rail (CWR) Track
- NR/L3/TRK/002/B03 Ballast - Regulate – Manual
- Risk Control Sheets:
- NR/L3/MTC/0002/TK000 Generic Track Risks
- NR/L3/MTC/0002/TK408 Pull through and plug timber