

AUSTRALIAN RAIL TRACK CORPORATION LTD

Engineering (Track & Civil) Instruction

Xplorer/Endeavour/XPT Trip Gear Rolling Stock Outline Infringement

Applicability

	ARTC Network Wide	Western Jurisdiction	New South Wal	es v	⁄ V	/ictoria		
Audience		Main Points		Change History				
Corridor/Delivery Manager Team Managers Work Group Leaders Project/Delivery Engineers Engineering Compliance Managers		Trip gear is installed on Endeavour	XPT, Xplorer &	Previo N0401	ously (1 (RIC	Civil Eng Ir C CTN 04/0	nstructio 1)	on
		High ballast and material causes trip gear operation						
		Field staff need to be sure n the trip area	o material infringes					
		Field staff need to change prevent trip hazards	work practices to					

Trip gear has been installed on the above trains and has been operating for some time, however the potential still exists for trip gear to be activated by perway activities.

To avoid incidents of trains tripping, maintainers may need to:

- □ change their work practices to avoid infringements
- Check fixed locations (platforms, level crossings etc) to check that clearances remain satisfactory

1. Change of work practices

Field staff must make sure they do not place any material (rails, sleepers, ballast etc) above superelevated rail height for a distance of at least 750mm away from gauge face of both up and down rails.

This meets the requirements of ARTC Standard BDS 11 "Transit Space Standards".



Figure 2: Trip Arm Infringement

Particular note should be taken of the need to remove any work infringements prior to the running of trains with trip arms (ballast will be of particular concern if ballast trains are run shortly before the passage of an XPT, Xplorer or Endeavour).

Issued by	Date
John Cowie, Manager Standards	08 May 2007



Patrol staff need to be made aware of the potential problem and watch out for infringements eg animals, rocks, ballast, sleepers etc. Field managers should routinely include this matter in pre-work briefings.

2. Fixed Locations

For assessment of potential infringements at Level Crossings, walkways, take offs, turnouts and signalling equipment etc, the more detailed trip profile should be used. Because the trip is located on the bogie of the vehicles no kinematic allowance is required for:

- centre throw or end throw
- vehicle roll
- vehicle bounce

The trip infringement sits between 400mm and 700mm out from the gauge face and between 50mm and 300mm above rail height (see fig 2 attached).



Figure 2: Trip Arm Infringement