



Trip Gear – Track Magnets (XPT & Explorer Trains)

Applicability

ARTC Network Wide		Western Jurisdiction		New South Wales	✓	Victoria	
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Audience	Main Points	Change History
Corridor/Delivery Managers Team Managers Work Group Leaders Project/Delivery Engineers Engineering Compliance Managers	Location of Trip Gear Magnets Track Magnets and signage are inspected in conjunction with Track Patrol Track Magnets and fastenings to be examined six monthly	Amended version of RailCorp CTN 05/15

XPT and Explorer trains have been fitted with train stop trip gear for operation in the Metropolitan area.

To minimise the operating of the trip gear outside the train stop area, an induction system to raise and lower the trip gear using rack magnets has been installed with appropriate signage at points entering the metropolitan network.

Handling Precautions

- Staff with pacemakers MUST NOT work on or approach this magnetic equipment.
- Staff with hearing aids MUST NOT place hearing aids within 125mm of the magnet.
- Staff should remove wallets, watches etc before working with magnets.

A very strong magnetic field occurs around these magnets.

Bringing electronic watches or equipment (Laptops, etc) credit cards/passes etc with magnetic strips to within 300mm of the magnets will result in the data being destroyed irrespective of the exposure time.

Exposures in the 300mm to 600mm range from the magnets will not result in the data being immediately destroyed, but should also be avoided.

Location of Track Magnets on ARTC Property:

North Islington Jct 164.544 – 164.593 on the Up and Down Main

These Track Magnets are maintained by RailCorp.

Damaged equipment should be reported to RailCorp.

Discussions are in progress to remove these from ARTC territory.

Issued by	Date
John Cowie, Manager Standards	08 May 2007

List of RailCorp Magnet Locations

South	Macarthur	City end of structure 56+859, 56.857km to 56.897km Up and Down Main South
West	Lithgow	156.800 km to 156.840 on the Up and Down Main West.
North	Islington Jct	164.544 – 164.593 on the Up and Down Main (Note this is outside RailCorp boundaries)
Illawarra	Moss Vale Line	90.931 - 90.948km Single line
	Kiama - Nowra	120.610-120.647km Illawarra Single Line
Metro	XPT & Xplorer Centres at Sydenham, Eveleigh and Broadmeadow have South magnets installed at departure roads ensuring the trip arm is lowered on vehicles as they leave the maintenance centre	