

**OPERATING MANUAL  
FOR THE MTA  
T4000 LIGHT RAIL VEHICLE  
DRAFT**

This draft manual is to be used as the MTA and updated to comply with  
the conditions of the letter of intent for vehicle as it may be  
approved by the MTA.

Recommendations for improvements to this manual should be submitted to:

The Engineering Manager,  
Canning (Victoria),  
P.O. Box 225,  
DANDENONG, VIC 3175

Canning (Victoria)  
15 July 1987

**OPERATING MANUAL**  
**FOR THE MTA**  
**T4000 LIGHT RAIL VEHICLE**

This manual has been produced by Comeng (Victoria) for Metropolitan Transit Authority (MTA) of Melbourne Light Rail Vehicle (LRV). The manual has been written to cover the following:

- . normal vehicle operation
- . trouble shooting
- . safety
- . location of equipment

This draft manual will be issued to the MTA and updated in accordance with their comments to form the issue 1 manual for release at a time to be nominated by the MTA.

Recommendations for improvement to this manual should be addressed to:

**The Engineering Manager,  
Comeng (Victoria),  
P.O. Box 618,  
DANDENONG, VIC. 3175.**

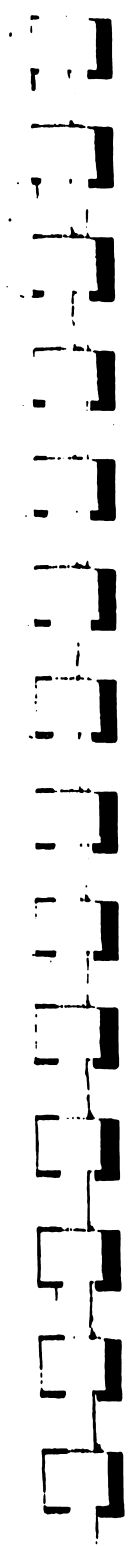
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## SECTION 1

### GENERAL DESCRIPTION

#### 1.1 VEHICLE FEATURES

The T4000 Light Rail Vehicle (LRV), built by Comeng (Victoria) is an electrically driven two section articulated passenger vehicle with a seating capacity for 76 and normal standing space for 106 persons.

On each side of the vehicle, as viewed from the kerb, there is a single bi-folding door at the driven end and two centrally located double bi-folding doors. Two steps provide access to the passenger compartment. Destination indicators are provided at both ends of the LRV and centrally on each side.

Power is supplied to the vehicle via a single arm pantograph and the LRV may be driven from either end. Traction and dynamic braking are provided by the end bogies only, a trailing bogie being used at the articulated joint. Disc and track brakes are fitted to all three bogies. Wheel slip of individual bogies is electronically controlled and corrected in both traction and braking modes.

Provision is made for the fitting of multi-function couplers if multiple vehicle running is required.

The passenger compartment of each section of the vehicle is accessible via the articulated joint and there is no restriction on passenger standing in this zone during normal operation.

Interior features and services are -

- Anti-slip heavy duty rubber flooring.
- Vinyl covered foam cushioned seating, two abreast in fixed bays plus two single seats at each end.