

CHAPTER 1 - INTRODUCTION

SECTION 2 - VEHICLE OVERVIEW

2.1 GENERAL

The purpose of this section is to familiarize maintenance personnel with the identity and location of all major systems and components of the ALRV. Section contents include general information regarding specifications, dimensions, and equipment arrangements. Detailed instructions required to perform system or component maintenance are found in the appropriate manual chapters.

2.2 VEHICLE SPECIFICATIONS

2.2.1 Vehicle Dimensions

- a. Overall length: 1062 inches *28.5*
 - Front (A Car), 531 inches
 - Rear (B Car), 531 inches
- b. Overall width - 104.25 inches
- c. Overall height (without pantograph): 149 inches
 - Minimum height (with pantograph), 155.5 inches
 - Maximum height (with pantograph), 281.5 inches
 - Working height (with pantograph), 228 inches

2.2.2 Operating Weights

	<u>Seated</u>	<u>Standees</u>	<u>Approx. Weight (lb)</u>	<u>Approx. Weight (kg)</u>
a. AW0	--	--	98700	44770
b. AW1	75	--	110480	50115
c. AW2	75	90	124430	56440
d. AW3	75	135	131405	59605
e. AW4	75	180	138380	62770

2.2.3 Electrical Supply

- a. High voltage DC
 - (750 V nominal)
 - (900 V high)
 - (450 V low)
- b. Low voltage DC
 - (32 V - battery)
 - (35-40 V - LVPS)

- c. Low voltage AC (three-phase, 60 Hz)
(120/208 Vac)

2.2.4 Seating Capacity

- a. Total - 75
- b. A Car - 38 + 1 operator's seat
- c. B Car - 37 + 1 operator's seat

2.3 VEHICLE EQUIPMENT AND LOCATION

The vehicle is comprised of two carbody structures (A and B), coupled back-to-back by a center articulation joint. The vehicle is controlled from either end depending on which cab is active. Various equipments which make up the vehicle are illustrated in the following figures. These equipments are identified in the accompanying tables by item number. Cross-references are also provided to direct the reader to the appropriate chapter for detailed equipment information. It should be noted that the chapter referenced is for all Maintenance Manuals and RPC.

2.3.1 Exterior Equipment

Figure 1-2-1 provides a list of the exterior equipment (excluding underframe) and their general location on the vehicle.

2.3.2 Underframe Equipment

Figure 1-2-2 provides a list of the electrical and pneumatic equipment and their general location under the vehicle.

2.3.3 Interior Equipment

Figure 1-2-3 provides a list of the interior equipment and their general location within the vehicle.

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UTDC Light Rail Vehicles 1041-1069
Not in service at this time

