

## **GEARBOXES**

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The original design for the cars was based on a similar design used in 12 other cities in North America. Since the receipt of the original 54 cars, a similar problem has occurred on vehicles in many of these other fleets.

Each Blue Line car has four gearboxes. The gearboxes are coupled to an electric traction motor which drives the cars. Repair costs have averaged \$11,500 per gearbox. All failures were discovered while the cars were out of service for routine maintenance.

Future rail car purchases, including an order with a German manufacturer for 74 cars that can be used on the Blue Line's Long Beach and Pasadena segments as well as the Green Line, call for a different motor-gearbox design which is expected to be more durable.

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