

## IMPROVING THE NOISE AND VIBRATION ENVIRONMENT IN DIESEL MULTIPLE UNITS

The main mechanisms by which noise and vibration are generated on a typical DMU are described. Methods of reducing the present excessive noise and vibration levels are discussed. Data gathered on many different classes of DMU are presented in a series of Appendices.

The major conclusions of this report are that the acoustic insulation of most DMU floors is inadequate, and that the remounting of engines would be more successful if items of equipment associated with the engine were resiliently mounted. It is suggested that, to obtain maximum benefit from refurbishing, each type of DMU power car needs to be studied and modifications decided separately.