1.2 DIVERSITY ANTENNA OPERATION

To aid in the consistent reception of FM radio signals, the Calais model is equipped with a diversity antenna system.

The diversity antenna system consists of a diversity antenna, diversity antenna module and coaxial leads.

The diversity antenna is an integral part of the rear window glass. The thin conductors that form the diversity antenna are laid on the inside of the glass in the same manner as the rear window demister elements. A terminal is located on the passenger side of the rear window allowing connection of the diversity antenna to the diversity antenna module lead.

The diversity antenna module amplifies the signal received from the diversity antenna. It then transmits the amplified signal to the radio's diversity antenna input.

The diversity antenna module is located beneath the trim on the passenger side of the rear parcel shelf. The module is connected to the diversity antenna via one of two coaxial leads, the other lead, located under the passenger side rocker panel cover, connects the module to the radio's diversity antenna input extension lead.

Another single wire lead is used to supply the diversity antenna module with 12 V for its operation and the module is earthed through its case to the vehicle body.

To prevent interference, it is very important that the module and coaxial leads are earthed securely.

The radio receives signals from both the diversity antenna system and the conventional fender mounted mast type antenna. Internal circuitry within the radio decides which antenna is located in the cleaner signal area. It then uses that antenna for its radio reception.

When the vehicle is in motion the radio constantly monitors both antenna inputs and swaps between them in order to maintain the best possible radio reception.

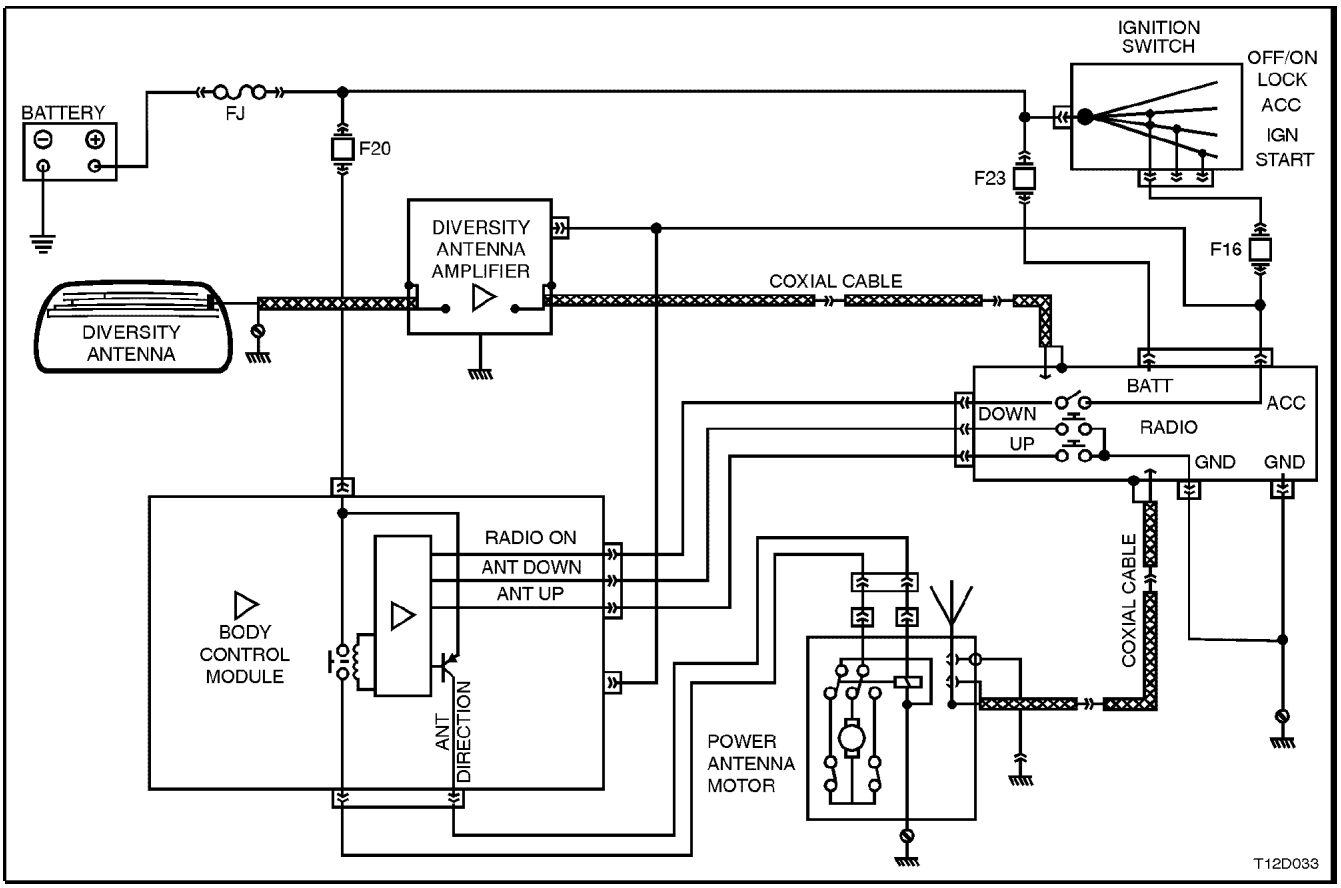

Figure 12D-6