



Automotive Electronics Group

Re: Certification for TRW '02 DR/DX Receiver
Model No.: GQ43VT26R
FCC ID: GQ43VT26R
CANADA:

GENERAL DESCRIPTION

The device for which certification is being requested is a super-heterodyne receiver designed specifically for a DaimlerChrysler automobile RKE system. With its associated key fob transmitter, it can be used as a part to remotely lock and unlock the doors and activate panic mode of the automobile in which it is installed. The receiver is installed during the assembly of the vehicle and the transmitter/receiver set is sold as an option when the vehicle is purchased.

The receiver consists of one printed circuit board (PCB) housed in a 3.06x2.14x0.83 cubic inch plastic case. A 6-pin connector on the PCB plugs into the vehicle Cab Compartment Node (CCN) which supplies 5 Vdc for operation and communication.

The receiver portion of the remote lock control system is incorporated into the wiring system of an automobile and is powered by the vehicle's Cab Compartment Node (CCN).

The receiver is super-heterodyne in design and is tuned to 315MHz. It has an onboard PCB trace antenna. The incoming RF signal is filtered, amplified and mixed down to the intermediate frequency, amplified again, demodulated and then the data is fed into the microprocessor. The microprocessor reads the received data and decides if it enters operation mode or programming mode. If a valid operation code is received, it will activate the appropriate outputs to the BCM after verifying them with the 32 bits of encrypted data stored in EEPROM.