

Automatic – Dimming NVS™ Mirror with Homelink®, Electronic Compass Display Description

The Automatic Dimming NVS™ with Homelink® universal garage door opener is designed to reduce nuisance glare to the driver's eyes. The glare is controlled with an electrochromic mirror element that is driven by a microcontroller where dimming levels are determined based on inputs from light sensors monitoring both ambient light in front of the vehicle and glare light from behind the vehicle.

The NVS mirror is also equipped with an electronic compass which displays the direction the vehicle is facing. The compass shows the appropriate cardinal heading (N, NE, SW, etc.) which is determined by the signals from the magneto inductive sensors. This model may also be equipped with an optional display of outside temperature. With this option the microprocessor also determines the outside temperature by monitoring an external thermistor probe.

The Homelink® III is a low-power transceiver device that is installed into the rearview mirror of the automobile and powered by the 12volt system of the automobile. The installation is provided by trained technicians during the course of the manufacture of the automobile.

This Universal Garage Door Opener has the capability to:

1. Learn the frequency and bit code format of the user's existing garage door remote control devices and
2. Reproduce and transmit the frequency and bit code format to remotely operate the user's garage door.

The unit is designed for the periodic operation of a control signal which activates typically a garage door.

The Homelink® III printed circuit board (PCB) is permanently joined to the main mirror printed circuit board. The mirror PCB contains the three user push buttons and light emitting diode (LED). This three-button Homelink® unit replaces up to three hand-held transmitters. In addition to the typical operation of the garage door, the unit will learn the radio frequency codes of other transmitter types to activate entry door locks, estate gates, security systems, and home or office lighting.

The transmit unit is only operational when the user depresses one of the three control buttons. This unit becomes inactive after release of the control button.

The antenna system is an integral part of the unit. It cannot be altered nor replaced by the user. Service of this system is only available from the Automobile Manufacturer's Dealerships and GENTEX Corporation.