DELPHI
Automotive Systems

Air/Fuel Management

Cruise Systems Electro-Motor

Description:

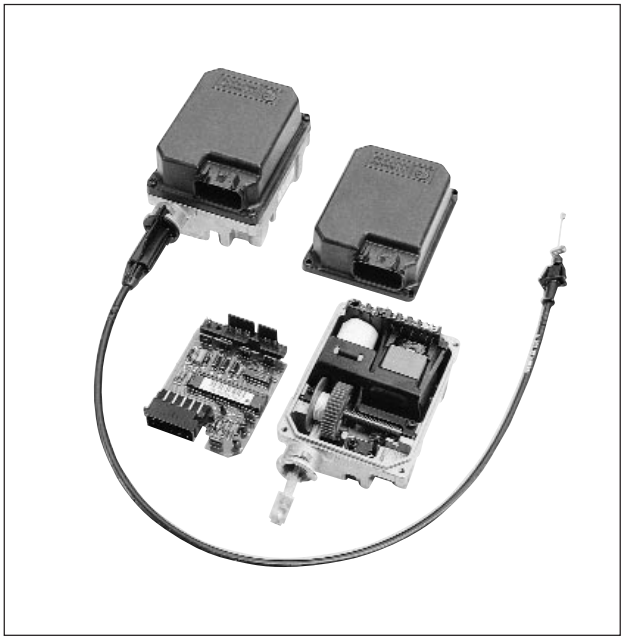
The Electro-Motor Cruise System is a speed control system that maintains the driver's vehicle speed under normal driving conditions. It provides the driver with the convenient functions of cruise, coast, accelerate, tap-up, tap-down, resume and cancel. The Electro-Motor Cruise System is entirely vacuum independent. It combines the electronic controller and the motor actuator into a single control module. The system can be operated through controls located either on the turn signal stalk or the steering wheel switches.

Typical Application:

The Electro-Motor Cruise System is specifically engineered for cars, trucks and motorcycles and is factory installed.

Performance Advantages:

The Electro-Motor Cruise System integrates two of the major components of a cruise system into a single control module which lessens packaging volume and requires fewer parts than other cruise systems.



Features	Benefits
• Engineered to function as an all-electric system - completely vacuum independent	• Improved performance on steep hills, in high altitudes and with heavily loaded vehicles
• Integrates two of the major components of a cruise system into a single control module	• Requires less packaging volume and fewer system parts than other cruise control systems • Assures electrical connection integrity; provides a fully tested cruise control prior to vehicle installation
• Actuated by an electronic controller with a small throttle step size	• Provides smooth tap-up and tap-down transitions, improved speed control on level roads, and better overall performance
• Designed with built-in diagnostics	• Simplifies servicing of the cruise system on the vehicle
• Speeds as low as 25 mph can be maintained	• Allows cruising at lower, more fuel efficient speeds
• Added functions of resume, accel, coast, tap-up, tap-down, and cancel	• Provides the convenience of adjusting the vehicle speed within the cruise control system
• Specifically engineered for the car or truck in which it is factory installed	• Adaptable to all known vehicle and power train combinations, including turbo-charged and diesel engines
• Designed and tested for reliable operation for 10 years/ 100,000 miles	• Adds value to car at resale time (according to Kelley Blue Book, Red Book and N.A.D.A. Used Car Guides)
• Serial communications capability	• Permits communication with other electronic systems on the vehicle and the sharing of driver interface displays and switches information

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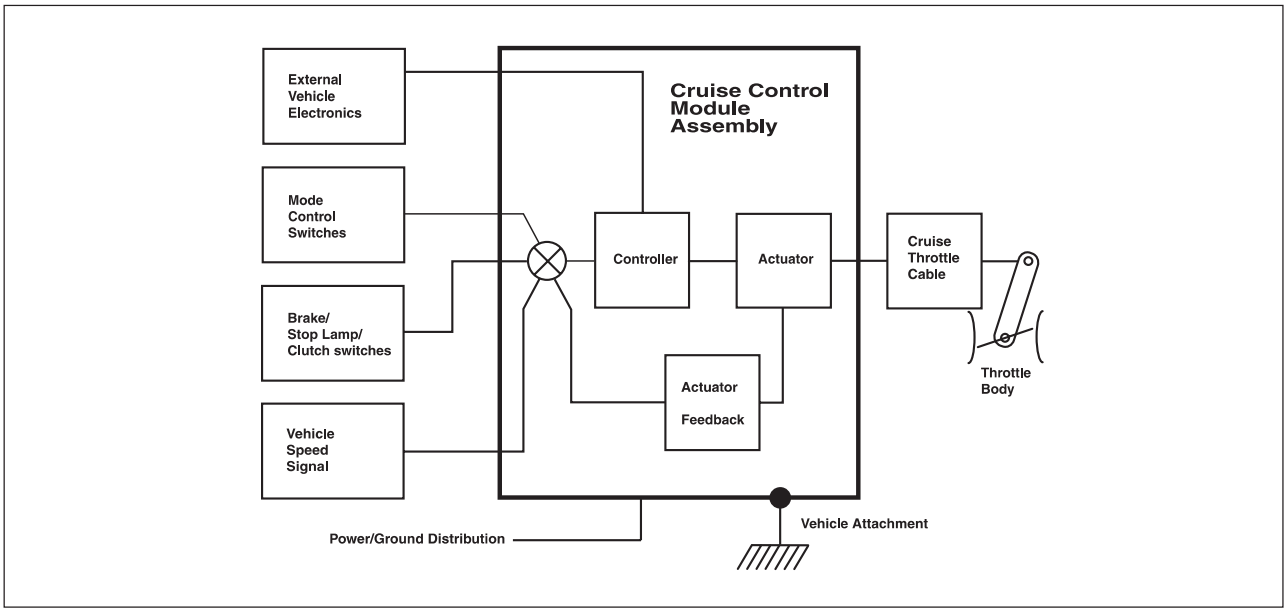
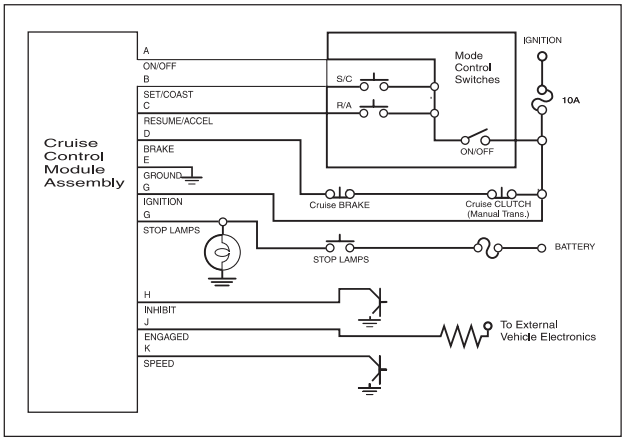


Typical Wiring Diagram



Performance Specifications:	
Size	110 mm x 85 mm x 75 mm (max. installed) (Gen 2)
Mass	900 grams (typical)
Servo Stroke Capability	90 N (max.); 40 mm length
Operating Requirements Temperature Voltage Current Draw	 -40° C to 100° C cruise mode -40° C to 110° C non-cruise mode 11 to 16 VDC 10A (max.)

Delphi Website:
http://www.delphiauto.com

DELPHI
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