



VDO AGB III

Road Speed Limiter

Automatic speed limitation for trucks and buses

VDO

Road Speed Limiter

Commercial Road Speed Limiter

Accuracy in road speed limiting.

VDO road speed control for maximum engine efficiency, added safety and minimum fuel costs.

Through its advanced electronic digital technology, VDO sets the standard in accurate speed monitoring systems. The new VDO Road Speed Limiter controls the top speed of commercial vehicles for safety and economy without effecting the available engine power output.

The VDO Road Speed limiter limits the vehicle's top speed to required maximum speed by sensing vehicle road speed and, comparing it to a pre-set figure. A microprocessor operates the actuator that is attached to the engines fuel injection pump. As the vehicle's speed approaches the pre-set limit, the actuator limits the supply of the fuel by altering the control lever on the injector pump.

The vehicle is unable to exceed the pre-set limit in flat or slightly undulated conditions so the operator can give full concentration to the road with the assurance that they are driving within the maximum legal speed. While there is no possibility of overriding the pre-set limit in the above type of terrain, full engine power and maximum engine rpm are available up to the selected road speed limit.

The unit can be calibrated to the specific requirements and is readily adaptable to a wide range of vehicles.

When you install a VDO Road Speed Limiter you

- Protect your engine from costly engine damage
- Save on fuel costs
- Reduce maintenance costs
- Increase road safety
- Increase driver comfort

The R.S.L system provides the means for the most efficient driving style without surpassing a preset maximum speed limit.

Operation

The Electronic Control Module compares the actual driving speed with the permanently stored speed limit. A speed Signal Generator (which is attached to the vehicles transmission) or a processed speed signal from an electronic Speedometer or Tachograph provide continuous speed information up-date. As the actual speed approaches the pre-set limit, commands are transmitted to the actuator to alter the fulcrum of the fuel control lever on the injector pump and res any further fuel supply.

Changing road conditions (e.g traveling uphill) are compensated for by automatically increasing fuel supply until maximum engine power of preset road limit is attained. To further aid driver comfort, a variable cruise control option is available.

Applications

- Trucks
- Buses & Coaches
- Forklifts
- On/Off Highway vehicles
- Agricultural Machinery
- Mining vehicles
- Light commercial vehicles

Installation

The system can be adapted to the majority of commercial vehicles. The Actuator is mounted on the chassis fire wall (not on the engine) and connection to either Scissor Lever or Override Cylinder via a Bowden Cable,

The pump lever is adapted to provide the additional pivot point without interfering with existing throttle linkage operation. The Electronic Control Module is mounted under the dashboard and connected by looms to the Actuator and speed signal source. The complete system can be sealed with lead seals after installation.



Electronic control module specifications

Case:	Aluminium
Speed Limit Range:	70km/h - 112km/h
Mounting:	4 x 4.5mm Hole
Electrical Connection:	25 x 3.0mm Blade
Voltage:	12V - 24V

Electric motor (actuator) specifications

Body:	Aluminum Alloy
Torque:	300Ncm
Sweep Angle:	90O Approx
Up-down Regulating:	Every 0.18 seconds
Mounting:	2 x M6 threaded Hole
Voltage:	12V - 24V

Main Components:

- Electronic Control Unit
- Electronic Actuator
- Plus all wiring looms, connectors, Bowden cable and fixing brackets.
- Scissor Levers or Override Cylinder (sold separately)

Note product can only be installed by trained personnel

Road Speed Limiter

Applications

Scissor Lever

Suits both Push or Pull throttle

Two levers held in parallel by a spring, are attached to the throttle linkage where the inner one is controlled by the Actuator through the Bowden Cable.

Note: Mechanical Speedometer installations requires Hall effect Sender, Hall effect Signal loom application length. (Roll test needs to be conducted to establish Ratio)

Override Cylinder

Suits both Push or Pull throttle

This may be used for Pull Throttles only, e.g. cable as in coaches.

VDO AGB III RSL

- Programmable range 2Km/h to 200Km/h in steps of 0.1Km/h • Speed Set option - Two possibilities
 - a) Second switchable (Via Pin 5 input)
pre-programmed speed limit below maximum limit is available.
 - b) Variable speed limits
- Exhaust brake input
- Actuator position limiting 0% - 100% Speed signal interrupt.
- EU Directive 92/24 - ADR 65 Compliant - Australian regulation for the compulsory Road Speed limiting of trucks and buses.

IMPORTANT INFORMATION

- Product can only be installed by Trained and Authorised personnel.

Scissor Lever

Suits Both Push Or Pull Throttle

Two levers held in parallel by a spring, are attached to the throttle arm of the injection pump. The outer one is attached to the throttle linkage where the inner one is controlled by the actuator through a Bowden cable.

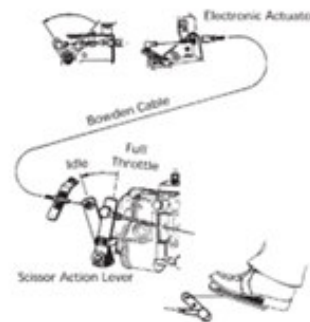


Diagram shows Scissor Levers in position for full throttle but actual throttle lever of Injector Pump in idle position.

Note: Mechanical Speedometer installations require Hall effect Sender K46005 and Hall effect Signal loom with appropriate length. (Roll test needs to be conducted to establish number of impulses per km).

Override Cylinder

This may be used for pull throttle only, e.g. cable as in coaches.

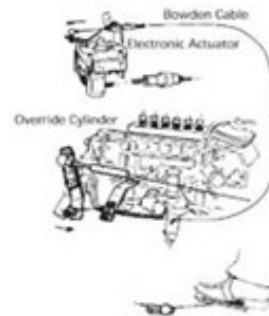


Diagram shows Override Cylinder fully extended by Actuator and throttle fully depressed.

For further information about VDO visit www.vdo.com

www.vdo.com/product_solutions/special-oem-solutions

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