

Engine Mounting Kits

Proportional fuel control for construction, industrial, and agricultural equipment. Maintains isochronous engine speed for demanding applications such as gensets, eliminating droop inherent in mechanical governors. Includes mounting hardware and control linkage for electronic engine governing systems.



Features:

- Fast, easy installation
- Corrosion resistant, plated steel bracket, linkage and hardware
- For use with APECS proportional actuators. (Vanguard kit includes O175 actuator)
- Precise engine speed control when used with APECS electronic controllers (See APECS Controllers section, pages 74-83, for ordering information)

Kits Available

- Cummins C Series
- Kubota V2203-E
- Vanguard 3/LC
DM-700D, DM-850D & DM-950D



WARNING: An overspeed shutdown device, independent of the APECS system, should be provided to prevent loss of engine control that may cause personal injury or equipment damage.

Engine Mounting Kits

Specifications:

Actuator Rated Voltage	12 or 24 VDC
Temperature Range	-40°F to +250°F (-40°C to +121°C)
Input Signal	Pulse width modulated
Housing	Anodized aluminum
Connections	Two wires, open lead

	Rated Current	Stroke	Weight (excluding actuator)	Kit Contents
Cummins	6.8 A-12 VDC 3.5 A-24 VDC	1.00" (25.4 mm)	1.4 lbs (0.64 kg)	Adapter plate, linkage, reinforcing bar for A & MW pump mounting hardware
Kubota	6.8 A-12 VDC 3.5 A-24 VDC	1.00" (25.4 mm)	2.7 lbs (1.2 kg)	Mounting bracket, linkage, lever extension, mounting hardware
Vanguard	4.3 A-12 VDC 2.3 A-24 VDC	0.80" (20 mm)	1.7 lbs (0.78 kg)	Actuator with welded bracket, linkage and mounting hardware

Specifications are for reference only.

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Cummins C Series Kit

Kits are custom fit for Cummins C series engines that are equipped with an RSV governor on Bosch A, MW and P fuel pumps. Kit mounts horizontally on the side of the engine block behind the pump.

APECS linear actuator (ordered separately) responds in milliseconds to changes in current from a pulse width modulated signal generated by the controller. When the actuator is de-energized, an internal spring moves the shutoff lever to shutdown.



Kit for A and MW pumps
shown with reinforcing bar

Kit for P Pump

Order Information:

Mounting Kit

APECS Proportional Actuators

ORDER NO.	Application	ORDER NO.	Model	Spring	Voltage
SA-4598	Cummins C Series (A, MW & P pumps)	SA-4506-12 SA-4506-24	0250 0250	SA-4684 (S1) SA-4684 (S1)	12 VDC 24 VDC

When you order: Order bracket from Cummins if it is not already on the engine:

PUMP MODEL	Bracket
A	No. 3923254
MW	No. 3923255
P	No. 3930290

E.E.C. Directive Compliance: All parts supplied by Woodward are classified as components, and therefore are not "CE" marked. Please contact factory direct for details on specific product compliance with 89/336/EEC and 89/392/EEC directives.

Engine Mounting Kits

Kubota V2203-E Kit

The Kubota V2203-E kit mounts closely behind the fuel pump.

APECS linear proportional actuator (ordered separately) responds in milliseconds to changes in current from a pulse width modulated signal generated by the controller. When the actuator is de-energized, an internal spring moves the shutoff lever to shutdown.



Order Information:

Mounting Kit

ORDER NO.	Application
SA-4457	Kubota V2203-E

APECS Proportional Actuators

ORDER NO.	Model	Spring	Voltage
SA-4502-12	0251	SA-4684 (S1)	12 VDC
SA-4502-24	0251	SA-4684 (S1)	24 VDC

Vanguard 3/LC DM-700D, DM-850D & DM-950D Kit

The Vanguard 3/LC kit mounts closely above the front gear housing, behind the fan, to minimize interference with other components or housing.

APECS linear proportional actuator responds in milliseconds to changes in current from a pulse width modulated signal generated by the controller. When the actuator is de-energized, an internal spring moves the shutoff lever to shutdown.



Order Information:

Mounting Kit

ORDER NO.	Application
SA-4779-12	Vanguard 3/LC (all models)
SA-4779-24	Vanguard 3/LC (all models)

APECS Proportional Actuators

ORDER NO.	Model	Spring	Voltage
Included in Kit	0175	Included	12 VDC
Included in Kit	0175	Included	24 VDC

Note: The throttle lever with an extra hole must be ordered from Briggs and Stratton Daihatsu in the U.S.

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