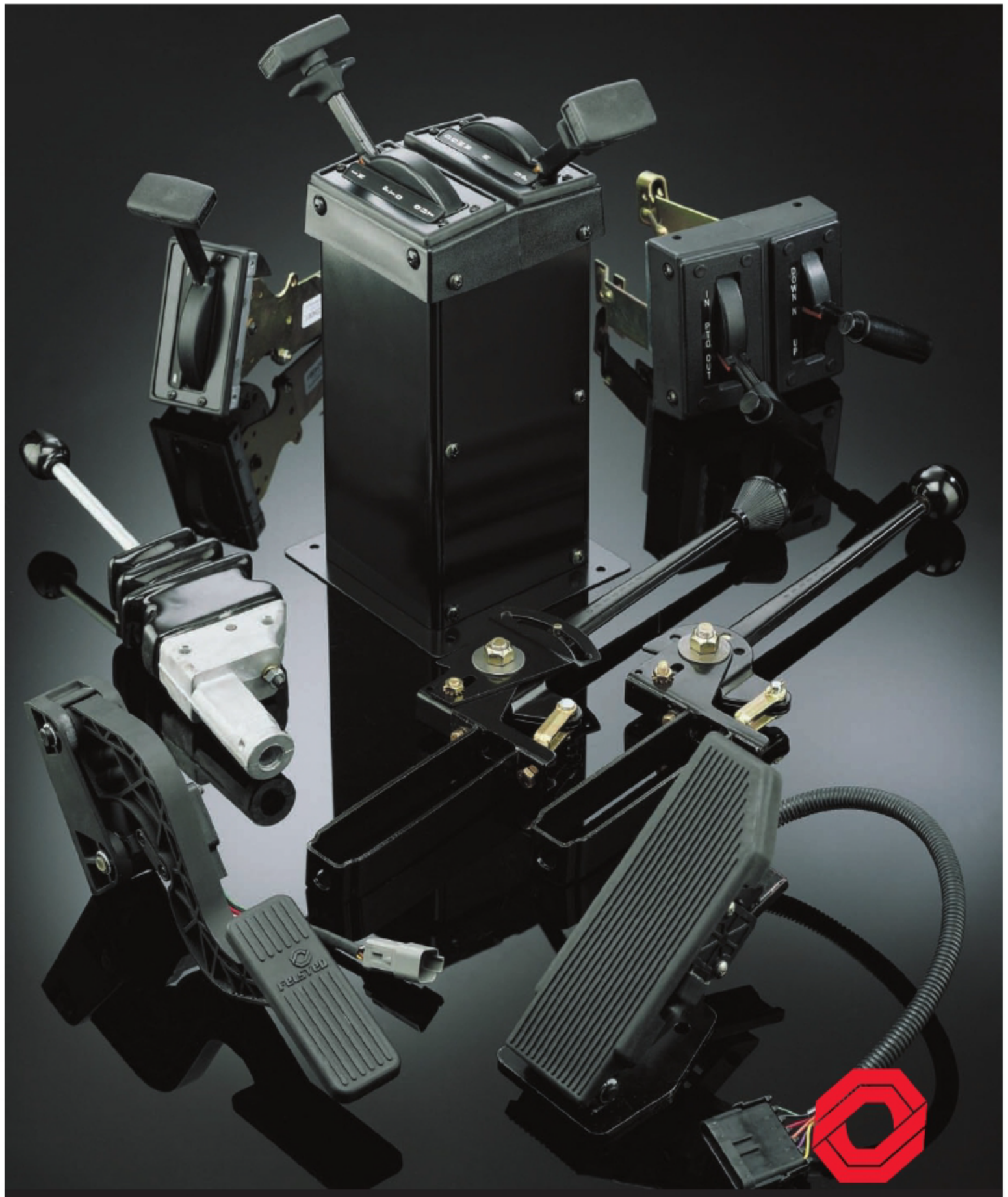




COBUMEX

The Global Leaders

This catalog includes Felsted's engine, valve, and pump controls. For more than 25 years, Felsted has produced hand and foot controls for the on-highway and off-highway heavy-duty markets. Most controls in this catalog continue to utilize mechanical control cables which we

produce for both OEM and aftermarket needs. In addition, we have designed foot pedals and hand vernier controls for the new generation of electronic controlled diesel engines.



*Above: Floor mount throttle pedals for electronic engines.
Right photo: Prototype concepts of suspended pedals.*



FELSTED®

Engine Controls

Felsted designs and manufactures floor throttle pedals for both mechanical and electronic governed engines. Our rugged steel mechanical pedal on pages 5-6 is used on various on and off highway equipment. (See Felsted HP Cable catalog for throttle and vernier control cables.) For the new electronic controlled diesels, see page 2 for our standard floor pedals. Suspended style throttle pedals are

unique to each OEM application.

Please consult the factory for the latest specifications.

New generation vehicles are demanding more reliable electronics, lightweight materials, and corrosion resistant materials. Long life sensors and molded polymers are used to provide lightweight and durable performance.

Valve and pump controls

Hand levers to remotely operate spool valves are on page 7, and companion Heavy-Duty levers are on pages 9-10. These cable controlled levers provide rugged operation and flexibility for remote location.

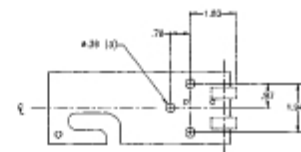
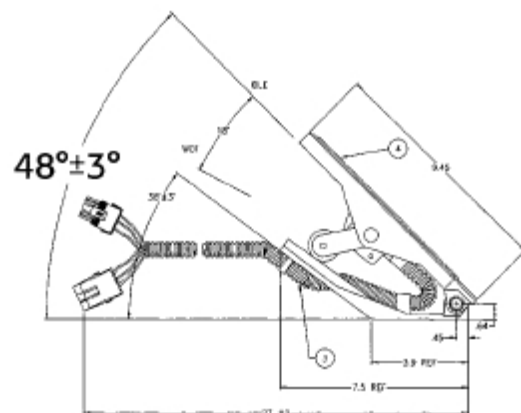
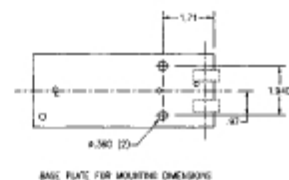
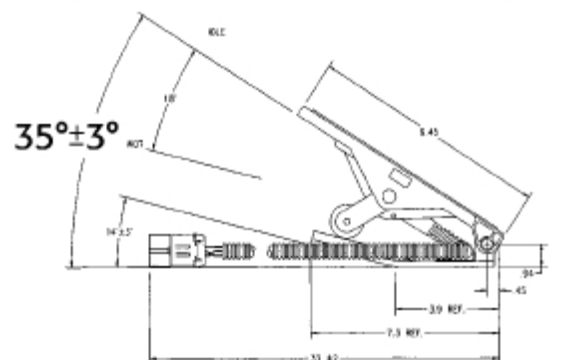
For PTO and hoist controls on dump trucks, see pages 11-12 and 13-14. Felsted offers both "T" handle and side push button styles.

Catalog Index

Floor Pedal for Electronic Engines	2
EV2 Vernier Hand Control for Electronic Engines	3
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Electronic Foot Pedal for Heavy-Duty Electronic Diesel Engines

The foot pedal delivers a precision signal that interacts with the engine's electronic fuel management systems. Polymer components create a lightweight pedal, as much as half the weight of current pedals in the marketplace. This fast-reacting pedal provides smooth driver operation, and features a durable, longer-life potentiometer. Quality testing ensures reliability and durability.



Functional

to the treadle surface and at a point
of the pivot axis.

Initial Movement	> 2 lbs. (9 N)
Full Throttle	< 11.5 lbs. (51 N)
Rotational Angle	16-20°

Weight

Weight of Pedal	1.9 lbs. (.86 Kg)
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Durability

Full Stroke Cycles	10 Million
Dither Cycles ±1	
Degree, Mid Range	80 Million

Electrical Specifications

Potentiometer	2.5 k ±15% Ohm's
Maximum Voltage	13.5 Vdc
Power Rating	0.15 W @ 85° C
Max continuous current	20 mA
*Minimum output	0.5% ±0.5% of ref. V.
*Maximum output	93% ±2% of ref. V.

*Minimum and Maximum outputs controlled by mechanical assembly of pedal.

Caterpillar	EFP107-00	EFP102-00
Cummins	EFP108-00	EFP103-00
Detroit Diesel	EFP109-00	EFP104-00
Mack	VMAC	EFP110-00
Navistar	EFP111-00	EFP106-00

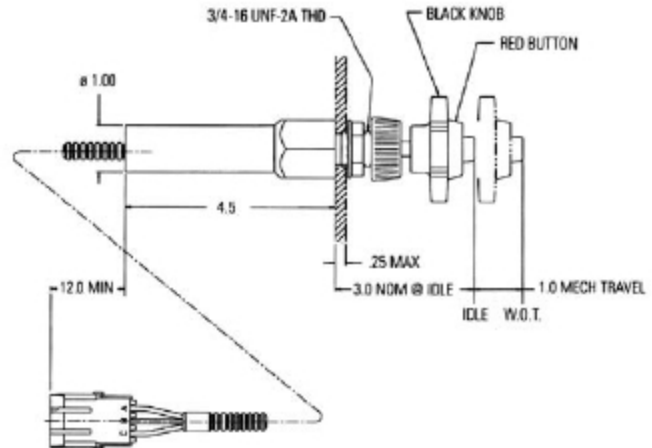
EV2 (Vernier Control for Electronic Engines)

The Felsted® Electronic Vernier (EV2), has been designed to provide precise, variable engine speed adjustment on electronically controlled stationary engines, or from a remote operating position on mobile equipment. We have engineered the EV2 to allow capability with most electronically-controlled diesel engines.



The EV2 is easy to operate, even with gloves on. The **large (2-1/4") diameter**, easily identifiable knob provides continuous engine speed regulation **from idle to wide open throttle in seven (7) full turns**, providing fine engine speed adjustment. To prevent accidental overrevving, the EV2 cannot be pulled to the wide open throttle position - it must be turned. It does, however, offer a **quick shut-down** feature activated by pushing in the knob. The EV2 also offers an adjustable friction collar to prevent accidental changes in engine speed. When a change in engine speed is desired, the friction collar may be loosened.

The Felsted EV2 is easily installed in a very limited amount of space. The EV2 requires a .78" diameter drilled hole, and only 4.5" clearance behind the dash panel. The EV2 is **pre-set at the factory**, with no field adjustment necessary. The potentiometer unit is sealed for protection against moisture and contaminants.



Cummins	'B' and 'C' Series (no IVS)	EVR001
Detroit Diesel	DDEC I, II, III	55790-1
Mack	VMAC	EVR001
Navistar	T444E, DT446E, 530E	EVR001
*Consult factory for availability on other models		

VMAC is a registered trademark of Mack Truck. • DDEC is a registered trademark of Detroit Diesel Corporation.

Chassis Harness / Connector

Requires customer supplied items as follows: Packard Electric Connector - Three Way Weatherpack

1 pc. Tower	12015793	
3 pc. Female Terminal (typical)	12010182	#14 - 16 gauge
3 pc. Seal (typical)	12015899	.06" - .08"