

Product Information

www.vdo.com/usa

CB 500 Cluster



Description

Preconfigured cluster for 8cylinder gas automotive or light truck applications. Utilizes VDO GPS speed sender to drive 140mph central speedometer.

Features

- 140MPH speedometer preset to use VDO 340-786 GPS speed sender.
- 7,000 RPM tachometer preset to 4 pulse/rev.
- 280F temperature gauge
- E-F fuel gauge
- LCD with tripmeter, odometer and digital clock
- 14 tell tales
- Single snap fit wire harness

Electrical Requirements

Supply Voltage:

Operating Voltage:	10 V - 16V
Nominal voltage:	12V
Test voltage:	13.5V $\pm$ 0.5V

Supply Current:

Normal Operation:	max. 400mA (All warnings off)
Standby:	max. 4mA

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Environmental Requirements

Operating Temperature:

Operating temperature: -30°C to +85°C

With all LEDs on: -30°C to +85°C

Display visible: -20°C to +70°C

Test temperature: 23°C ±5°C

Storage Temperature:

Low temperature storage: -40°C for 48 hours

High temperature storage: +85°C for 48 hours and +90°C for 1 hour

Vibration:

Vibration resistance max.1g rms, 25 Hz - 3 kHz, duration 8h; F: 1 octave/min

Shock resistance 15g, 1.5 ms, Semi-sinus

Vehicle Connector

PIN	Function		PIN	Function	
1	N.A.		15	Diagnostic	
2	N.A.		16	Alternator	
3	Kl.31		17	Windshield Washer Fluid	
4	N.A.		18	Parking Brake	
5	Analogue Ground		19	Check Engine	
6	Long Rang		20	N.A.	
7	Speed Out		21	Fuel Sensor	
8	N.A.		22	Indicator Left	
9	Low Oil Pressure		23	Coolant Temp Sensor	
10	Engine Speed Sensor		24	Indicator Right	
11	Kl.30		25	High Beam	
12	Kl.58d (Illumination)		26	Seat Belt Warning	
13	Kl.15		27	Speed signal input	
14	ABS Warning		28	Door /Trunk Ajar	

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Sender Compatibility

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Speed

340-786 VDO GPS Speed Sender

Fuel

226-946K	ALAS II Fuel Sender Kit with 10mm (3/8") Draw and Return Tubes and Wire Harness. 3-180 Ohm
226-001	ALAS Adjustable Fuel Sender 6 3/4-23", 10-184 Ohm
226-002	ALAS Adjustable Fuel Sender 6 3/4-23", 10-184 Ohm, with Tank Flange
226-162	ALAS I Adjustable Fuel Sender, 6-15 3/4", 3-180 Ohm, with Low Fuel Warning Contact
226-168	ALAS I Adjustable Fuel Sender, 6-15 3/4", 3-180 Ohm, without Low Fuel Warning Contact
226-946	ALAS II Adjustable Fuel Sender, 5 1/2-15 3/4", 3-180 Ohm, with Low Fuel Warning Contact

Temperature

323-055	Temperature Sender 300°F/150°C M14X1.5
323-056	Temperature Sender 300°F/150°C M16X1.5
323-057	Temperature Sender 300°F/150°C 1/8-27NPTF 801/9/1
323-058	Temperature Sender 300°F/150°C 1/4-18NPTF
323-059	Temperature Sender 300°F/150°C 3/8-18NPTF
323-060	Temperature Sender 300°F/150°C 1/2-14NPTF
323-061	Temperature Sender 300°F/150°C 5/8-18UNF
323-064	Temperature Sender 300°F/150°C M18X1.5
323-089	Temperature Sender 300°F/150°C (Common Ground) M10 X 1.5
323-092	Temperature Sender 300°F/150°C M12X1.5 801/10/3
323-120	Temperature Sender 300°F/150°C Warning Contact 250°F/120°C 1/2-14NPTF
323-121	Temperature Sender 300°F/150°C Warning Contact 265°F M14X1.5 803
323-423	Temperature Sender 300°F/150°C M10X1 801/9/3
323-485	Temperature Sender 300°F/150°C Floating Ground 1/4-18NPTF 805/3/2

Oil Pressure Switch

230-504 4psi normally Closed Pressure Switch

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Warning Light Parameters

No.	Function	Control	Graphic	Color	Activation
L1	Headlight	Switch		Green	Power
L2	Low Fuel	Internal Software		Amber	
L3	Windshield Washer Fluid Level	Switch		Amber	Ground
L4	Check Engine	ECU Ground output		Amber	Ground
L5	High Beam	Switch		Blue	Power
L6	Parking Brake	Switch		Red	Ground
L7	High Coolant temperature	Internal Software		Red	
L8	Seat Belt Warning	Switch		Red	Ground
L9	Low Oil Pressure	Switch		Red	Ground
L10	Door /Trunk Ajar	Switch		Red	Ground

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No.	Function	Control	Graphic	Color	Activation
L11	Alternator	Switch		Red	Ground
L12	Indicator Left	Switch		Green	Power
L13	Indicator Right	Switch		Green	Power
L15	ABS Warning	Switch		Amber	Power