



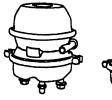


TECHNICAL BULLETIN

SUBJECT: EB 08-001 e-Stroke Technical Specification

e-Stroke System Specifications		
System General Specifications: GEN 3 (Tractor / Truck / Bus), GEN 1 (Trailer)		
CCM P/N Prefix: GEN 3 - 829	01XXX, GEN 1 & 2 - 8290XXX,	
Operating Temperature	-40C to 80C	
Power Requirement	9.5V DC to 30V DC Ignition Switched	
Maximum Current Draw	1.5 amps	
System Fuse	GEN 3: 5 amps, GEN 1 & 2: 10 amps	
Environmental Protection	SAE J1455 Compliant	
Electrical Protection	SAE J1455 and SAE J1113 Compliant	
System Component Specific	cations:	
Chassis Communications Module (CCM)	GEN 3 CCM: STR750 Flash Micro Controller FSK (PLC), JTAG, RS-232, J1708, J1939 interface support Internal 10 bit A/D, external 12 bit A/D Extended I/O support (Digital & Analog) RS-232 and J1939 firmware re-programmable Configurable from 2 to 8 wheel ends Truck, Tractor, Bus, Trailer configurations available Diagnostic interface: RS-232, J1708, J1939 CCM Exterior Dimensions: Width: 7.39", Height: 4.32", Depth: 1.43" CCM Mounting Options: (2) 1/4" Fasteners, Pre Applied Double Sided Tape GEN 1 Trailer approved for exterior mounting. GEN 3 approved for interior mounted applications only	
Pressure Transducer	 GEN 3: 110psi Brake Application Pressure Sensing Capability Burst Pressure Rating – 1000psi Pneumatic Connection – 1/4" NPT Male Application Torque not to exceed 30Nm (22 ft-Lbs.) Material – Stainless Steel 	
Wire Harnesses	 Power Harness – 5ft to 30ft Pressure Transducer Harness – 5ft to 20ft Sensor Harness – 10ft to 60ft All exterior cables double insulated with high strength jacket Note: Most Harnesses available in 5 ft increments Power Harnesses: GEN 1 Trailer: Connector Metri-Pack 280 type 4-pin sealed. GEN 3: Molex 5557 series 10 pin non sealed Sensor assemblies and sensor harnesses: Packard 150 type 3-pin sealed Metri-Pac at sensor end. See System Schematics for all connection designations. 	

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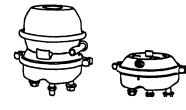


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System Warning Device	Warning Lamp Outputs: Tractor / Truck / Bus Brake Monitor, Lining
	Wear, Trailer Brake Monitor, Lining Wear
	Fault Code Transmission via J1708 & J1939
S-CAM / Drum Brake	One piece environmentally sealed Hall Effect sensor
Actuator Sensor	Packard Metri-Pac 150 type 3-pin connector
	60 inch standard sensor length
	Serviceable independent from Actuator
S-CAM / Drum Brake	External Piston Rod Brake Actuators are available for a wide range of
Actuators	vehicle applications. It is necessary to select the appropriate
	actuators for the vehicle application.
	e-Stroke S-CAM / Drum Brake Actuators are designated with an
	"ESH" at the end of the MGM P/N
	■ Consult MGM Brakes Sales (800) 527-1534
Air Disc Brake Actuator	Environmentally Sealed Hard Coat Anodized Aluminum / Potted Sensor
Sensor	Assembly
	Packard Metri-Pac 150 type 3-pin connector
	60 inch standard sensor length
	Supplied with e-Stroke Disc Actuator Assembly
Air Disc Brake Actuators	 Disc Brake Actuators are available for a wide range of vehicle
	applications. It is necessary to select the appropriate actuators for
	the vehicle application.
	e-Stroke Air Disc Brake Actuators are designated with an "ESK" at
	the end of the MGM P/N
	■ Consult MGM Brakes Sales (800) 527-1534
e-Stroke Diagnostic Tools	■ Warning Light Blink Codes
	 Laptop Based Diagnostic Software / RS-232 serial connection to
	CCM or J1939
	■ Hand Held e-DT Display Diagnostic Tool / J1939

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Product Compliance

SAE J1455	Environmental testing for Electronic Equipment (Heavy-Duty Trucks)
Section 4.1	Temperature Cycle, Thermal Shock, Thermal Stress
Section 4.1	Humidity
Section 4.3	Salt Spray Atmosphere
Section 4.4	Immersion and Splash (Water Chemicals, and Oils)
Section 4.5	Steam Cleaning and Pressure Washing
Section 4.7	Dust Exposure & Gravel Bombardment
Section 4.9	Mechanical Vibration
Section 4.10	Mechanical Shock
Section 4.11	General Heavy-Duty Truck Electrical Environment –
3ection 4.11	Steady State Electrical Characteristics
SAE J1113/4	Immunity to Radiated Electromagnetic Fields – Bulk Current
	Injection (BCI) Method
SAE J1113/11	Immunity to Conducted Transients on Power Leads
SAE J1113/12	Electrical Interference by Conduction and Coupling –
	Coupling Clamp
SAE J1113/13	Immunity to Electrostatic Discharge (ESD)
SAE J1113/21	Immunity to Electromagnetic Fields, 10kHz to 18GHz,
	Absorber-Lined Chamber (Radiated Susceptibility)
SAE J1113/22	Immunity to Radiated Magnetic Fields from Power Lines
SAE J1113/41	Test Limits and Methods of Measurement of Radio
	Disturbance Characteristics from Vehicle Components and
	Modules, Narrowband, 150kHz to 1000 MHz (Conducted &
	Radiated Emissions)
SAE J1113/42	Conducted Transient Emissions
SAE J1708	Serial Data Communications between Microcomputer
	Systems in Heavy-Duty Vehicle Applications
SAE J1587	Electronic Data Interchange between Microcomputer
	Systems in Heavy-Duty Vehicle Applications
SAE J1939	Recommended Practice for a Serial Control Vehicle
	Communications Network
SAE J1128	Recommended Practices for Vehicle Wiring
UL 94 Fire Rating	UL 94B (Tractor / Truck / Bus CCM Only)

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