

REFERENCE EDITION CATALOG

Locomotive Electronics and Onboard Data Systems for Rail Operators



BOHRELECTRONICS
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CRM CENTRAL
RAILWAY MFG
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BOHR ELECTRONICS

EB070002B Governor Tester



MU-2 Portable MU Tester



EMD

- 8123980 Electro-pneumatic Contactor
- 8124362 Wheel Slip Relay
- 8130069 General Purpose Relay
- 8138370 Cooling Fan Contactor
- 8138929 Ground Relay
- 8147352 Relay
- 8155259 General Purpose Relay



- 8157085 General Purpose Relay
- 8157086 General Purpose Relay
- 8163954 Load Regulator Vane Motor



- 8172591 Wheel Slip Relay



- 8174804 General Purpose Relay
- 8184973 Contactor
- 8187245 General Purpose Relay
- 8187957 Relay
- 8188947 General Purpose Relay
- 8190872 General Purpose Relay
- 8191319 Starting Contactor
- 8191734 Wheel Slip Relay
- 8192805 Pneumatic Power Contactor
- 8193976 Transition Meter Test Set
- 8200708 Battery Charging Contactor

8200709 Battery Field Contactor



8200710 Generator Shunt Field Contactor
8205672 Generator Shunt Field Contactor
8205673 Starting Contactor



8206623 Generator Shunt Field Contactor
8207747 Starting Contactor
8209167 Wheel Slip Relay
8210254 AC Contactor
8213294 Neutral DC Relay



8222035 Wheel Slip Relay
8225437 Contactor
8226956 Locomotive Controller
8226959 Locomotive Controller
8227211 Locomotive Controller
8227489 Generator Start Auxiliary Contactor
8232206 Wheel Slip Relay
8236959 Locomotive Controller
8238232 Locomotive Controller
8238268 Locomotive Controller
8238712 Battery Charging Contactor
8240768 Battery Field Contactor



8242891 Locomotive Controller

8245903 Transition Relay



8246474 50/1000 mA Test Unit
8247364 Contactor (AC, GFA)
8249331 Magnetic Switch Assembly
8249332 Magnetic Switch Assembly
8251126 Generator Shunt Field Contactor



8251143 Magnetic Switch Assembly
8251586 Magnetic Switch Assembly
8253133 General Purpose Relay
8254054 Contactor
8254055 Shunt Field Contactor
8254056 Battery Field Contactor



8254149 Relay
8262004 Battery Field Contactor
8265545 Shunt Field Contactor
8267987 Transition Relay



8272487 Contactor (AC, BFA)
8272598 General Purpose Relay
8274993 Locomotive Controller
8276450 Magnetic Switch Assembly
8277235 Brake Warning Relay
8284597 Wheel Slip Relay

Legacy Locomotive Electronics

8285148 Magnetic Transfer Switch
8285443 Magnetic Switch Assembly
8285452 Magnetic Switch Assembly
8286520 Magnetic Switch Assembly
8286554 Locomotive Controller
8287677 Locomotive Controller
8290221 Cooling Fan Contactor
8291023 Wheel Slip Relay
8291891 Electro-magnetic Contactor
8292814 Load Regulator
8294080 Battery Field Contactor



8301489 Parallel Power Contactor
8302169 Contactor (BFA)
8307357 Cooling Fan Contactor



8314549 Cooling Fan Contactor



8319017 Battery Charging Rectifier Assembly
8319025 General Purpose Relay

8319696 Battery Charging Rectifier Assembly
8326893 Dynamic Brake Contactor
8328232 Locomotive Controller
8328960 FS / LTT Contactor



8328961 Magnetic Power Contactor



8328962 Magnetic Transfer Switch



8329110 Contactor
8330045 Traction Motor Lockout Switch
8330085 Field Shunting Contactor
8330201 Magnetic Transfer Switch



8330790 3-Terminal Static Voltage
Regulator



8330937 Contactor (BFA, GF)



8332078 Field Shunting Contactor



8332085 Magnetic Power Contactor

8332096 Magnetic Power Contactor



8332395 Field Shunting Contactor

8332466 Dynamic Brake Contactor

8332661 Contactor (BFA, GF)



8332847 Field Shunting Contactor

8332994 Dynamic Brake Contactor

8335901 Magnetic Switch Assembly

8338875 Magnetic Switch Assembly

8340028 FS/LTT Contactor

8340723 Generator Shunt Field Contactor



8341261 Magnetic Transfer Switch



8341764 General Purpose Relay

8342427 Battery Field Contactor



8345137 Field Shunting Contactor

8345834 Locomotive Controller

8347433 GJS DC Relay Neutral

8349386 Field Shunting Contactor

8350271 Magnetic Power Contactor

8351006 Field Shunting Contactor

8351562-G Voltage Regulator

8351980 4-Terminal Static Voltage
Regulator



8352634 Locomotive Controller

8355578 Field Shunting Contactor

8355671 Power Contactor

8355672 Magnetic Power Contactor



8357383 Sensor Panel



8357415 General Purpose Relay



8357416 General Purpose Relay

8357417 General Purpose Relay

8357418 General Purpose Relay

8357419 General Purpose Relay



8357465 Field Shunting Contactor

8358407 Contactor

8360045 GJS Neutral DC Relay



8361774 General Purpose Relay

8361775 General Purpose Relay

8361776 Neutral DC Relay

8363168 General Purpose Relay

8363270 Shunt Field Contactor

8363308 Field Shunting Contactor

8364294 General Purpose Relay

8364908 General Purpose Relay

8365137 Magnetic Power Contactor



8365431 Throttle Response Panel

8365513 FS / LTT Contactor



8365514 FS/LTT Contactor

8366670 Throttle Response Panel

8366931 Throttle Response Panel

8367084 General Purpose Relay

8367504 Dynamic Brake Contactor

8369006 SCR Assembly

8369154 General Purpose Relay

8370839 Auxiliary Relay

8371555 Shunt Field Contactor

8373478 FS/LTT Contactor

8377185 Locomotive Controller

8377257 Locomotive Controller

8377273 Rate Control Panel



8382120 Locomotive Controller



8382810 Magnetic Transfer Switch



- 8383678 Auxiliary Relay
- 8390695 Performance Control Panel
- 8390696 Performance Control Panel
- 8392129 Ammeter



- 8392855 Auxiliary Relay
- 8394594 General Purpose Relay
- 8397747 IDAC Wheel Slip Control Panel



8397748 Relay

- 8398705 Relay
- 8398983 Sensor



- 8399648 Magnetic Power Contactor
- 8399649 Magnetic Power Contactor



8399875 IDAC Wheel Slip Control Panel



8400143 Generator Field Decay Contactor



- 8402426 Ammeter
- 8403578 Auxiliary Relay
- 8404532 DBR Relay
- 8406888 Locomotive Controller
- 8407466 Magnetic Power Contactor



- 8407837 Shunt Field Contactor
- 8409702 Throttle Response Panel
- 8409874 Performance Control Panel
- 8411333 Ammeter (0-1500 Amps DC)
- 8411512 Type VE-9T Neutral DC Relay



8411758 Performance Control Panel
8415485 GSA Contactor



8416091 Battery Charging Rectifier
8416094 Battery Charging Rectifier
8416095 Battery Charging Rectifier
8416096 Battery Charging Rectifier



8416134 Power Contactor
8416136 Dynamic Brake Contactor
8416192 Battery Charging Rectifier
8417388 Performance Control Panel
8418569 Cooling Fan Contactor
8418742 IDAC Wheel Slip Control Panel
8419344 Field Shunting Contactor
8421229 Rectifier Panel



8421231 Relay (NVR)
8421610 GJS Neutral DC Relay
8422091 SCR Panel



8422170 SCR Panel
8422927 Transfer Switch Assembly

8422928 Motor Module Assembly



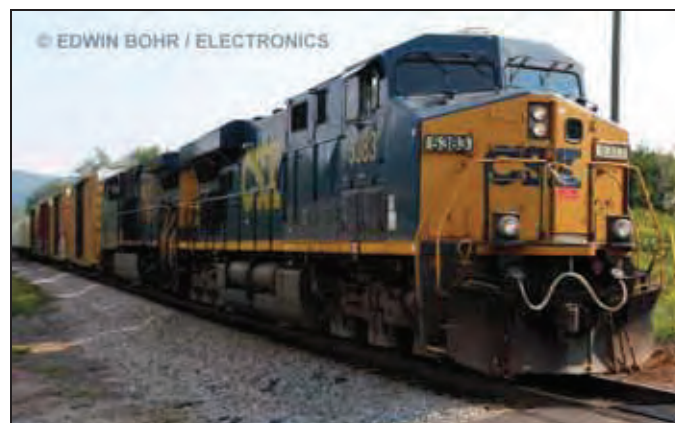
8423587 Load Regulator
8424310 Relay
8428700 Auxiliary Relay
8431459 Locomotive Controller
8433079 Locomotive Controller
8433397 Starting Contactor



8436326 Dynamic Contactor
8437296 Duplex Air Gauge



8438032 Power Ammeter



8445890 Contactor (GS, STA)
8447842 Contactor
8451158 Load Test Transfer Contactor



8451653 SCR Assembly



8453174 Transfer Switch



8453175 Transfer Switch



Refurbished Locomotive Controls

8453176 Motor Module Assembly



8453918 Load Regulator
8454412 Wheel Slip Relay
8456814 Hump Control Panel
8458534 Magnetic Power Contactor



8459697 Dynamic Brake Contactor
8461239 Locomotive Controller
8461331 Magnetic Power Contactor



8461332 Magnetic Power Contactor
8461333 Magnetic Power Contactor
8461733 Locomotive Controller
8461734 Locomotive Controller
8463773 Magnetic Power Contactor
8463774 Motor Module
8463777 Magnetic Power Contactor
8463778 Dynamic Brake Grid Shorting
Contactor
8464025 Magnetic Power Contactor
8464113 Magnetic Transfer Switch



- 8464114 Magnetic Transfer Switch
- 8464116 Magnetic Transfer Switch
- 8464117 Magnetic Transfer Switch
- 8464118 Magnetic Transfer Switch



- 8464206 Brake-Power Ammeter
- 8467190 Locomotive Controller
- 8470858 Locomotive Controller
- 8471770 Magnetic Transfer Switch
- 8471771 Magnetic Transfer Switch
- 8473270 Duplex Air Gauge
- 8473355 Engine Purge Control Contactor



- 8473366 Engine Purge Control Contactor
- 8477000 Locomotive Controller
- 8477400 Locomotive Controller
- 8478057 Interlock Assembly
- 8479400 Battery Charging Rectifier



- 8480235 Battery Charging Rectifier
- 8481323 Power Ammeter



- 8481556 Throttle Response Panel

- 8481557 Throttle Response Panel



- 8482180 Starting Auxiliary Contactor



- 8485235 Battery Charging Rectifier
- 8486974 Locomotive Controller
- 8489221 Contactor
- 9085182 Power Ammeter



- 9086378 Motor Module
- 9091052 Locomotive Controller



- 9091067 Locomotive Controller
- 9093629 Locomotive Controller



Locomotive Replacement Parts

9099009 Relay
9310496 FS / LTT Contactor
9310497 FS / LTT Contactor



9310498 FS / LTT Contactor
9312343 Auxiliary Relay
9315518 Starting Contactor



9315871 Locomotive Controller
9316438 Battery Charging SCR Assembly



9317181 Hydraulic Load Regulator



9317803 Battery Charging Rectifier
9321364 Locomotive Controller

9322456 Maurey-style Rheostat



9325207 Starting Contactor



9325903 Locomotive Controller
9327461 Locomotive Controller
9331358 AC Voltmeter

9369154 General Purpose Relay



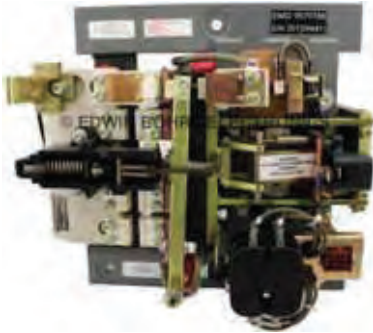
9505190 Locomotive Controller
9509434 FS/LTT Contactor
9514573 AC Voltmeter
9516488 Ammeter



9517928 Locomotive Controller
 9521384 Dynamic Brake Grid Shorting
 Contactor



9523218 Battery Charging Rectifier
 9525342 Battery Charging Rectifier
 9538862 Locomotive Controller
 9540454 Contactor
 9543902 Contactor
 9551839 Contactor
 9553417 Series Generator Contactor



9558197 Cooling Fan Contactor
 9559825 Contactor
 9559826 Contactor
 9567774 PSH Power Supply Module (Hybrid)



9569715 Contactor



9569716 Contactor



9575385 Cooling Fan Contactor



9579788 Series Generator Contactor (SGC)



9581827 SCR Assembly
 10581678 Dynamic Brake Controller
 10592830 Dynamic Brake Controller



10594662 Dynamic Controller
10599006 Controller Master
10599690 Power Ammeter



10620135 Ammeter



40000248 Battery Charging Rectifier
40001548 Cab Heater
40001549 Cab Heater
40001551 Cab Heater
40010561 Generator Field Decay Contactor



40018396 Main Reservoir Air Gauge



40020570 FS/LTT Contactor
40024444 Dynamic Brake Contactor



40026403 Axle Generator
40032261 Motor Management Ammeter

40034353 K-Band Radar Speed Sensor



40034361 Contactor
40034362 Contactor
40034363 Contactor
40036352 Pressure Switch
40036372 Compressor Control Switch
40037904 Contactor



40040084 Series Generator Contactor (SGC)



40058952 Dynamic Grid Shorting Contactor



40060643 SCR Assembly

40081692 K-Band Radar Speed Sensor



40088758 Contactor

40088759 Contactor



40090419 Dynamic Controller

40116732 Dynamic Controller

40116735 Dynamic Controller

40121734 Dynamic Grid Shorting
Contactor

40124227 Contactor

40126167 Blower Contactor



EMD DASH 2 MODULES



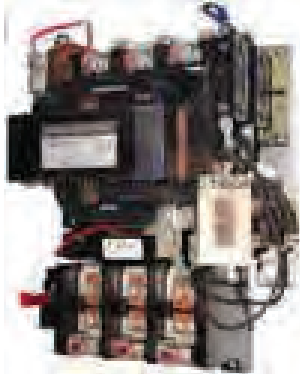
AN Annunciator
DE Dynamic Extended Range
DG Dynamic Grid Protection
DP Dynamic Protection
DR Dynamic Regulator
EC Excitation Control
EL Excitation Limit
EP Engine Purge
GV Generator Voltage Regulator
GX Generator Excitation Regulator
PF Performance Control
PS Power Supply
RC Rate Control
SA Sanding
SB Sensor Bypass
SC Signal Conditioner
SE Sensor
TH Throttle Response
TR Transition
VR Voltage Regulator
WO Wheel Overspeed
WS Wheel Slip

Tested Locomotive Components



A707CJ Brake-Power Ammeter
A707EM Brake-Power Ammeter

CR306E0**LYA Contactor



GP-1500 MG Set
MC-10 Load Meter Calibrator

17CM55 Contactor
17DP30 Reverser



17FH23 Voltage Regulator



17FH314 RU CPS Computer Power Supply
17FM492 Ground Detection Panel
17FM495 SPI Suppression Panel



17FM497 Cranker Thyristor Panel (CTP)
17FM502 HVM Panel



17FM503 Control Power Filter Panel (CPF)



17FM505 Traction Alternator Field Suppressor Panel (TAT)



17FM543 Fan Controller Panel



17FM545 AFR / BFR / BRP Panel
17FM548 Propulsion Rectifier Panel



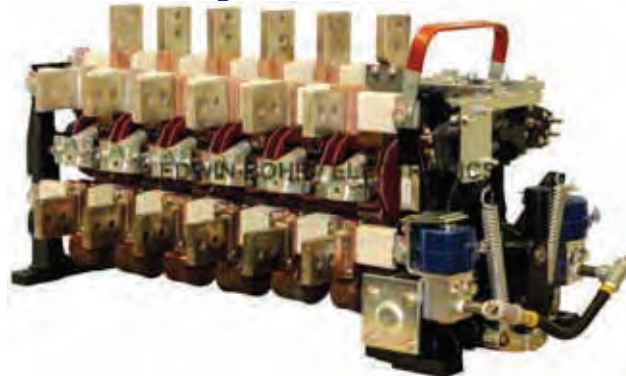
17FM558 Display Screen (DID)



17FM792 IGBT Rectifier Panel



17GP31 Braking Switch



17LV66 Relay



17MM24 Axle Alternator



17MV38 Magnet Valve



226825-004 Ultra-Cab II General Purpose Output (GPO)

226981-000 Ultra-Cab II 74V Power Supply

227133-000 Ultra-Cab II External Power Supply (EPS)



250913-000 LSL Power Supply
250958-000 Aspect Display Unit

41A296327AMP1 Contactor
41A322001LPP2 Power Supply
(Panel # 17FH31B3)



41A324267P2 Contactor

41A324267P3 Contactor



41B566484G2 SCM Panel

41C662781G15 Contactor

41C662780G3 Contactor

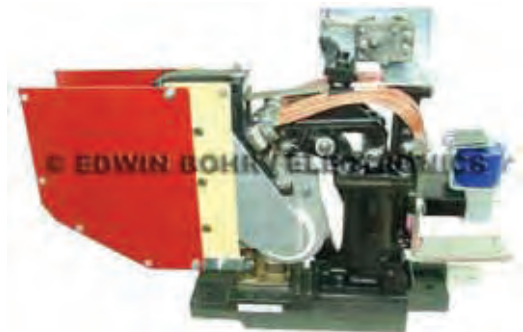


41C662780G4 AFC-XFC Contactor

41C662781G6 Contactor



41C662786G6 Electro-Pneumatic Contactor



41C663601G5 Contactor

41C663693G1 Control Power Filter Panel

84A207944P1 Contactor

84D702766P1 Contactor



84D702766P2 Contactor

GRAHAM-WHITE

373-010 E-Bell™

373-011 E-Bell™



787 Duplex Air Gauge



795-160 Duplex Air Gauge



796-050 AFM Indicator



796-651 CFM Meter



796-653 AFM Indicator



HARMON

250913 LSL Power Module



QUANTUM

(Safetran / Invensys Rail / Siemens)

Q1009 Remote Card Download

Q1010 Remote Card Download



Q1018 Remote Card Download



Q1019 Remote Card Download

Q1026 Locomotive Recorder

Q1027 Locomotive Recorder



Q1028 Locomotive Recorder

Q1029 Recorder with Camera Interface

Q1040 Digital Recorder

Q1044 Integrated Alerter / Recorder



Q1045 Integrated Recorder / Alerter



Q1046 Digital Event Recorder



Q1050 Digital Event Recorder

Q1055 Digital Event Recorder



Q1057 Digital Event Recorder



Q1058 Digital Event Recorder

Q1059 Digital Event Recorder

Q1065 Digital Event Recorder

Q1067 Digital Event Recorder

Q1068 Digital Event Recorder

Q1069 Digital Event Recorder

Q1123 Axle Alternator

Q1124 Axle Alternator



Q1163 Axle Alternator

Q1164 Axle Alternator

Q1200 Current Module



Q1200B TMC Current Module

Q1201 Universal Current Module



Q1230 Recorder Tester

Q1250 Universal Interface Panel

Q1251 Universal Interface Panel

Q1253 Universal Interface Panel

Q1254 Universal Interface Panel

Q1256 Universal Interface Panel

Q1257 Universal Interface Panel



Q1801 Speed Indicator / Alerter

Q1810 QSI-200 Speed Indicator



Q1812 Speed Indicator

Q1815 Speed Indicator

Q1820 Speed Indicator

Q1830 Speed Indicator



Q1832 Speed Indicator

Q1834 Speed Indicator

Q1842 Speed Indicator

Q2010 Ditch Light Controller

Q2026 Ditch Light Control

Q2030B Ditch Light Control



Q2031 Ditch Light Controller

Q2032 Ditch Light Controller

Q2042 Ditch Light Control

Q2043 Ditch Light Control

Q2500 Alertness Device



Q2506 Alertness Device

Q2516 Alertness Device Control



Q2518 Alertness Device



- Q2519 Alertness Device Control
- Q2520 Alertness Device Control
- Q2521 Alertness Alarm Box
- Q2530 Alertness Device Control
- Q2532 Alertness Device Control
- Q2880 Traction Motor Protection Module
- Q3101 Engine Temperature Controller



- Q3130 Engine Temperature Controller
- Q3442 HOT/EOT Onboard Repeater



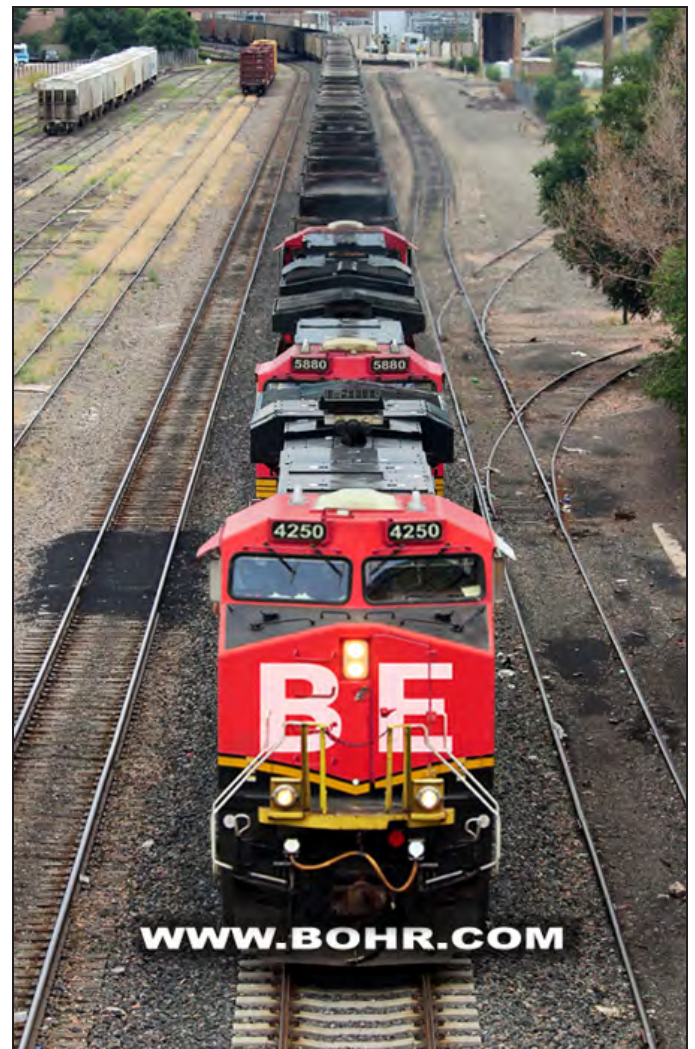
- Q3451 Head-of-Train Device
- V3451 Head-of-Train Device
- Q3452 Head-of-Train Device
- V3452 Head-of-Train Device
- Q3456 Head-of-Train Device
- Q3460 Head-of-Train Device



- Q3461 Head-of-Train Device
- Q3465 Head-of-Train Device



- V3465 Head-of-Train Device
- Q3467 Head-of-Train Device
- V3467 Head-of-Train Device



QUEST

Apollolite Ditch Light Pulser



ULTRA-TECH

15100-00 Cab Signal Master



VAPOR

18440074-01 PTC Panel 6 Axle



18930074 PTC Pre Amp Filter

WABCO

F42 Converter



WABTEC

081-01101 LocoTemp

081-15101 LocoTemp



081-15104 LocoTemp

081-15106 LocoTemp

081-15122 LocoTemp



081-15124 LocoTemp



17745P Memory Card Downloader



17771 Memory Card Download

18005 Speed Indicator

18031 Digital Speed Indicator

18043 Remote Digital Speed Indicator



18044 Dual-Range Speed Indicator

18146 Digital Speed Indicator (Remote)

18173 Isolation Amplifier



18174 Isolation Amplifier

ABM-04 Air Brake Manifold

ABM-06 Air Brake Manifold

ABM-08 Air Brake Manifold



AD-20 20-Pole Axle Alternator



RI80 Remote Speed Indicator



SI-100 Speed Indicator

SI-120 Speed Indicator (KPH)

SI-CM-01 Speed Indicator Control Module

SI-REPD-01 Digital Remote Speed Indicator

SISS-80-01 Solid-State Speed Indicator

TS3 Train Sentry III Alarmer



Onboard Data Management Devices

Enabling Technologies



Precision Navigation Module (PNM)



Locomotive Network Interface (LNI)



Locomotive Communication Router (LCR)



Real-Time Kinematic (RTK)
Base Station

Event Recording



Locomotive Event Acquisition Module (LEAM)



Crash Hardened Memory Module (CHMM)



Air Brake Manifold (ABM)

Networking



Locomotive Ethernet Switch (ESW)



Redundant Speed Supply (RSS)

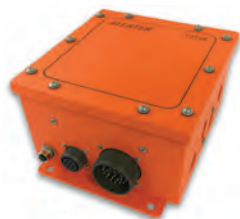


Communications Interface Module (CIM)



Remote Download Unit (RDU)

Crew Alerter Devices



Alerter



e-Alerter

Cable, Harnesses & Assemblies



Power



Communications



Custom

FAST Act Kit



Crash Hardened Memory Module (CHMM)



Analog or IP Cameras



LEAM - Event Recorder



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one knows
the workman.**

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