



## EMD/Siemens Locomotive Phase Module and Gate Driver Repair



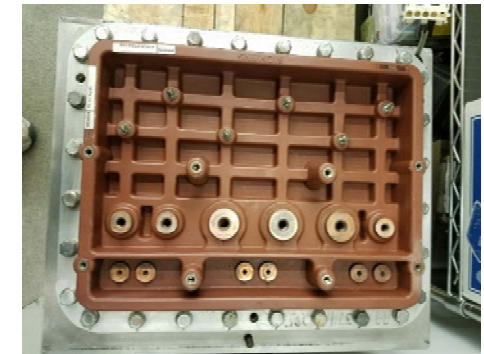
- Used in EMD SD70, 80, and 90 MAC Locomotives
- In stock for immediate shipment
- Very competitive pricing
- 2-year warranty
- UTEX program available



**Enhanced Reliability**

Our quality driven process and proven track record with Class 1 Railroads repairing these modules will improve reliability and reduce costs. From our experience we have determined the weak components and workmanship improvements that will ensure the performance expected from the system. We also have various other components such as wire harnesses, and diode assemblies, fans, capacitors and resistors available in stock at significant cost savings.

**Part Numbers:**  
40083333 ( EMD UTEX 40085962; SIEMENS 429 260 9043.00) - PHASE MODULE  
40048761 (EMD UTEX 40089150; SIEMENS 429 260 9005.02 ) - PHASE MODULE  
40048762 ( UTEX 40087220 ; SIEMENS 422 901 9080.53) – Gate Unit Assembly



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We offer a large selection of high-quality parts, components and services for the rail industry. By partnering with our clients we can identify opportunities on specific items resulting in reduced costs, shortened lead times, and improved reliability.

#### **Locomotive**

Air Conditioning Armature Rewind Kits  
Bearings  
Brush Holders and Studs  
Bus Bars Capacitors Coils  
Collector Rings  
Compressors  
Contactors  
Contact Kits and Shunts  
Electrical Spares  
Field Coils Fuses Gaskets/Seals  
Gauges  
Gears, Pinions and Cases  
Hardware Hoses Lamps/Lighting/LED  
Relays  
Resistors and Grids  
Speed Sensors  
Springs  
Traction Motor Parts  
Transformers  
Wear Plates

#### **Bonded Rubber Products**

Bolsters Bumpers Chevrons  
Hoses  
Side Bearers  
Traction Motor Supports

#### **Carbon Brushes**

Generators  
Industrial D.C. Motors  
Traction  
Wheel Motors

#### **Diesel Engine Parts**

Bearings Bolts Hoses Camshafts  
Crankshafts Cylinder Heads Filters  
Fuel Injectors  
Gaskets  
Pistons & Rings Radiators Starters  
Tools  
Valves

#### **Electronic Repair**

EMD and GE Electronics  
Dash 9 Modules  
Dash 9 Screens  
Diode Panels  
EMD Modules  
EMD Fire and Ice Screens  
EVO Modules  
EVO Screens  
EIPM and IPM Repair Modules  
Gate Drivers  
GTO Phase Modules  
IGBT Modules  
Motor Modules

#### **Fuses**

Current Limiting Distribution Electronic  
Power Limiting  
Semi-Conductor

#### **Power Semi-Conductors**

Diodes GTOs IGBTs Rectifiers  
SCRs Thyristors

#### **Power Semi-Conductors**

#### **Assemblies**

Diode (RM) Panels  
IGBT Panels  
Heat Sink Assemblies  
SCR Assemblies

#### **Transit**

Diodes  
Door Operator  
Panels  
Cards/Modules Contactors Diode  
Panels Rectifiers  
Gate Drivers  
GTO/ IGBT Panels  
Capacitors  
Resistors  
Ammeters Varistors Insulated Studs  
Relays  
Switch Bulbs  
Switch Lenses  
Speed Indicators Switches  
Microprocessors Voltage Regulators

#### **Reverse Engineering**

#### **Services**

Cost Reduction Programs Partnership Concept  
Redesign Capabilities Reliability Enhancement  
Strategic Sourcing