



# POWERRAIL

CREATIVE INNOVATIONS...CONTINUING TRADITION



## Locomotive Products

# CATALOG V18

Parts, Components and Enhancements

**POWERRAIL, INC.**

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Phone: 570.883.7005 • Fax: 570.883.7006

Sales@ePowerRail.com • www.ePowerRail.com



# MISSION STATEMENT

*It is the objective of PowerRail, Inc. to provide Products and Services that meet our exemplary standards of Quality, Service, Delivery and Value...which consistently meets or exceeds our customers' expectations.*



## Disclaimer

PowerRail, Inc., together with its affiliates, Vendors/Partners (collectively "PowerRail") offers a wide range of aftermarket replacement parts for EMD and GE brand locomotives.

PowerRail does not claim to be an authorized distributor nor does it claim to sell any Genuine OEM factory parts.

PowerRail claims no proprietary rights to, or affiliation with, any third party trademarks or logos which may appear in any of PowerRail's marketing materials.

[WWW.ePowerRail.Com](http://WWW.ePowerRail.Com)<sup>TM</sup>



To Our Present and Future Customers:

PowerRail, Inc. is excited to introduce to you our latest catalog. On behalf of our entire team, I'm sincerely grateful for the opportunity to showcase to you this comprehensive catalog featuring PowerRail products, enhancements and capabilities.

We are proud of the growth our family of companies has had since we started this endeavor in 2003. We are continuously expanding PowerRail with new locations and product offerings, bringing jobs back to the USA. We are always dedicated to achieving our goal of providing the Rail, Power Generation, Transit, and Marine Industry with an alternate source for true AAR M-1003 Quality Parts, Components, and Systems, with competitive pricing and delivered in a timely manner.

We are pleased to extend our offering of "Enhanced Products," developed with the Solidworks System and coupled with our M-1003 Quality Program. This symbolizes our attention to customers' needs in providing better solutions to current applications and cost savings, while keeping quality at the forefront.

We are also proud to expand our innovative **"True Blue™"** series of remanufactured parts and components with our **"New-UX™"** program which allows customers the opportunity to upgrade old cores for new product. Our programs offer true value and quality with unsurpassed flexibility and cost effectiveness.

In an effort to better meet the needs of our customers, we continue to develop our website, offering enhanced features and more information about our company, products and the services we offer.

Please feel free to visit the site at [\*\*www.ePowerRail.Com™\*\*](http://www.ePowerRail.Com)

Thank you for the opportunity to serve your needs. Should you have any questions regarding our new catalog or our product line, please feel free to contact me or any other member of the PowerRail team.

Sincerely,

Paul P. Foster  
President & CEO





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\*Be sure to look for our Enhanced Products throughout this catalog. These are the products that have been enhanced for the sole purpose of offering our customers a better product with cost savings, reliability and quality in mind.



\*See Inside Front Cover for Full Disclaimer.



# POWERRAIL, INC. CORPORATE



**PowerRail, Inc.** was originally formed in 2003 in Wilkes-Barre, PA. Today, our Corporate Offices and Main Distribution Center are located on a 7+ acre site in Duryea, Pennsylvania, next to the Wilkes-Barre/Scranton International Airport, with strategic access to all levels of logistic transportation.





# DISTRIBUTION



Centralized Warehousing



Each Item Hand-picked and Double-checked for Accuracy



Every Package is Bar Coded and Tracking and Packing Slips are Issued



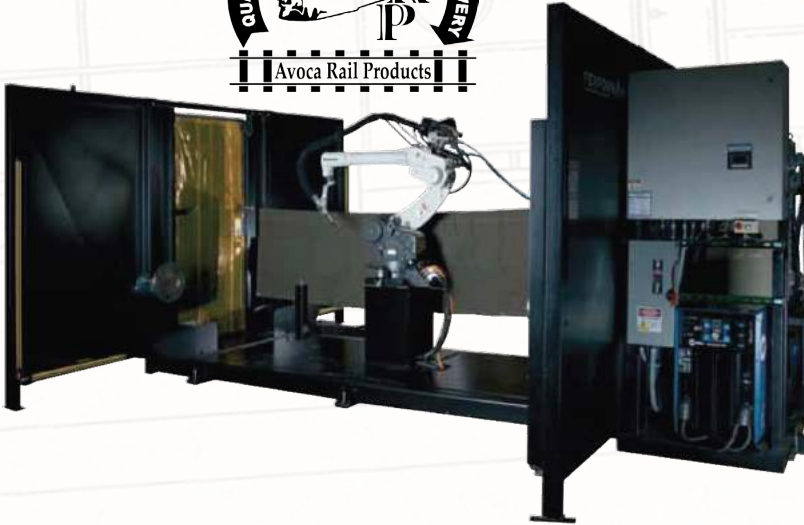
Loaded for Delivery



# AVOCA RAIL PRODUCTS



**Avoca Rail Products** of Duryea, Pa., is a precision Production Fabrication Facility utilizing the latest in technology to manufacture Quality Products. The flexibility of running small lots, including specialty items, compared to large full production places, this facility is in a class by itself.



Control Stand Shells

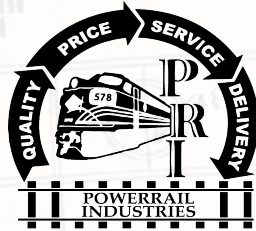


Latest Technology Robotic Fixture - Dual Sides





# POWERRAIL INDUSTRIES



**PowerRail Industries** of Duryea, Pa., a former Military and Aviation Machining Facility, utilizes the latest in CNC Technology to manufacture Quality Products. The flexibility of running small lots, including specialty items, compared to large full production places, this facility is in a class by itself.



CNC Vertical Milling Centers



Latest Technology - Measuring Equipment



Latest Technology - Precision Granite Tables





# COOPER BEARINGS



**Cooper Bearings, Inc.** of Georgetown, Del. is the leading expert for innovation and quality of Bearings and Journal Boxes used in both Freight and Passenger Transit Locomotives and Cars. In addition we are an M-1003 Certified Company offering New GG Journal Boxes and our **"True Blue™"** Unit Exchange Hyatt Journal Boxes. We also offer a complete line of Conversion and Specialty Journal Boxes and other related Wheel and Axle parts and components.



Quality Workmanship



Dual Table CNC Milling Center

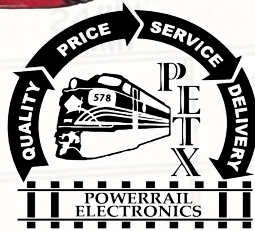


## POWERRAIL

CREATIVE INNOVATIONS ... CONTINUING TRADITION



# POWERRAIL ELECTRONICS

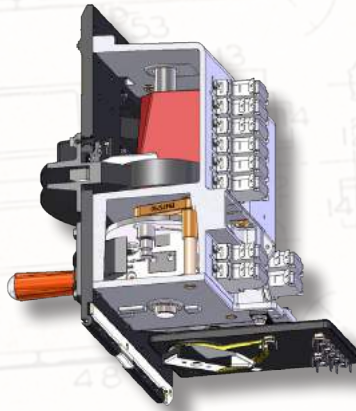
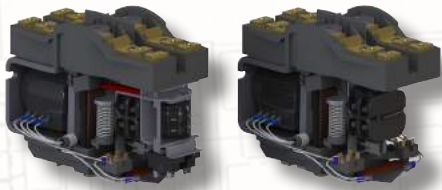


**PowerRail Electronics Technology** of Connersville, Ind. has recently relocated to a new facility, which offers additional space and features to better serve the needs of our customers.

PowerRail Electronics offers a full line of New and **"True Blue™"** Unit Exchange Contactors, Relays, Control Stands, Cabinets, Engine Protectors and other related parts & components. We pride ourselves in utilizing parts and components that we developed to meet or exceed original OEM specifications. Our standards ensure the end user receives a quality part that will be both reliable and functional.



Control Stand Wired & Tested



Contactors / Relay Work Station



Latest in Technology  
Test Equipment



Simulator Control Stand



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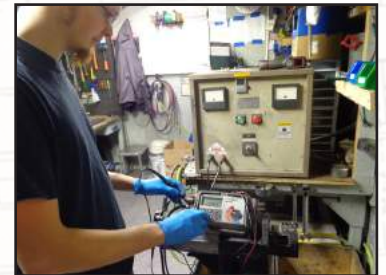
# POWERRAIL MANUFACTURING



**PowerRail Manufacturing** of Connersville, Ind. offers a complete line of "True Blue™" Unit Exchange Air Compressors, Roots Blowers, Water, Oil & Fuel pumps, and other related Engine components. In addition, we have expanded our line to include New Rocker Arms, Valve Bridges, Starters and Pumps. Having recently moved to a new 50,000 sq. ft. facility, the additional space and facility features allows us to better meet the needs of our customers.



Roots Blower Scroll Precision Balancing



Starters & Fuel Pump Motor Production



AESS Starter Test Cell



Water & Oil Pump Stations

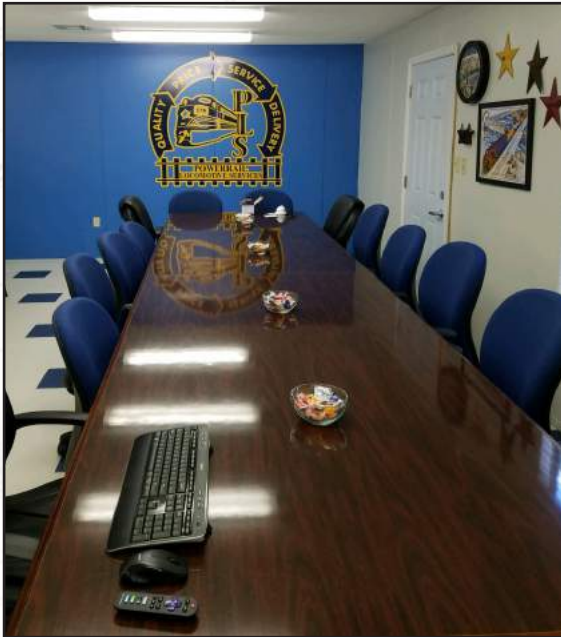




# POWERRAIL LOCOMOTIVE SERVICES



**PowerRail Locomotive Services** of Monroe, Ga. opened in 2014. This 17+ acre Locomotive Facility offers both Locomotive and Freight Car service including Light Repair, Running Repair, Re-wires, Traction Motor, Truck Work, and Engine and/or Engine Component Change Out.



New Training/Conference Room



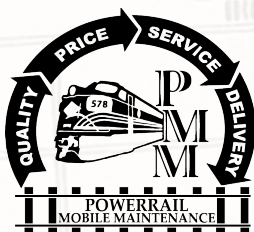
Inside PLS



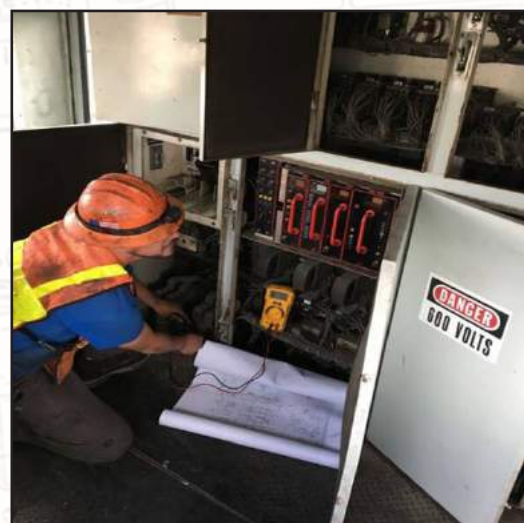
**POWERRAIL**  
CREATIVE INNOVATIONS ... CONTINUING TRADITION



# POWERRAIL MOBILE MAINTENANCE



**PowerRail Mobile Maintenance** of Monroe, Ga., a division of PowerRail Locomotive Services, provides mobile field service to customers from Coast to Coast, anywhere across North America. Available services include, Light Repair, Running Repair, Complete Rewires, Dash 2 & Dash 3 Electrical Upgrades, Truck Work, Engine and/or Engine Component Change Out, as well as Installs of various parts/components.



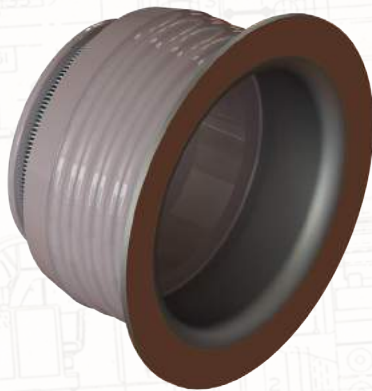


# PowerSeal Solutions

A PowerRail Quality Company

**PowerSeal Solutions™**, a PowerRail Quality Company, was formed in 2017 by combining the knowledge and experience of the PowerRail Engineering and Quality teams, with MacroSeal, Inc., a full-line manufacturer and fabricator of fluid-sealing products.

PowerSeal Solutions™ offers a complete line of gaskets and seals including, our PS-1 Line, our PS-2 C-Swell™ Line, and our newest line, the B-SureSeal™.



Our Newest Line of O-Rings, Marman Seals and related Engine Seals, the B-SureSeal™, offers exceptional reliability and STOP LEAKS. Our is the next generation in sealing solutions.

- Made with pure Viton A family material
- Superior performance under high operating temperatures up to 400°F
- Resistance to oil, fuel, and additives
- Remains flexible in service and won't "set" to hardware like Nitrile seals

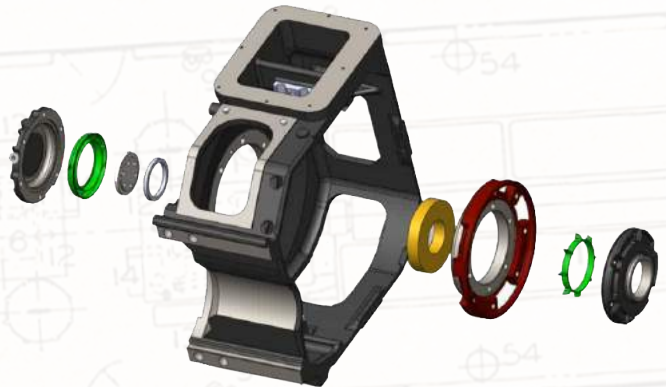
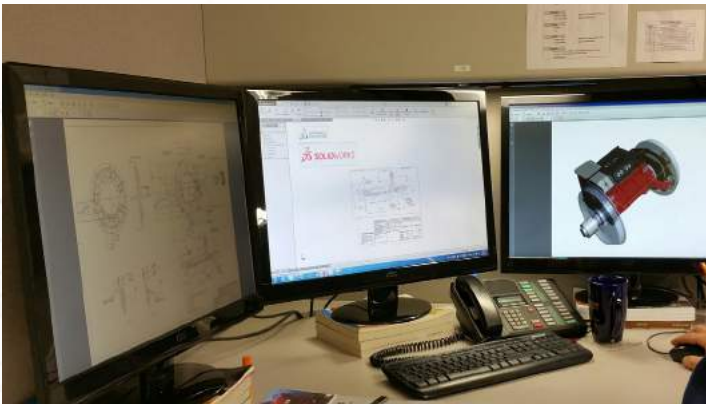
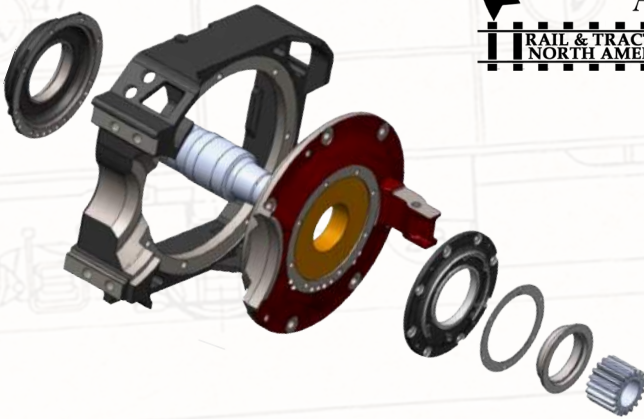


# RAIL & TRACTION NORTH AMERICA



**Rail & Traction North America** are the leading Experts for Innovation and Quality of Traction Motors and other related Electrical Locomotive Rotating Parts and Components.

Rail & Traction's Quality and Products are well established not only in North America but also Internationally.



## POWERRAIL

CREATIVE INNOVATIONS ... CONTINUING TRADITION



# POWERRAIL DISTRIBUTION ENGINEERING



## PowerRail Distribution Certified AAR M-1003 Quality

The **AAR M-1003 Certification** is a highly regarded mark of Quality in the Industry. It demonstrates that PowerRail Distribution Inc. and its divisions have implemented strict **Quality Procedures**. These procedures lead to quality parts and components being produced and delivered in a timely manner.

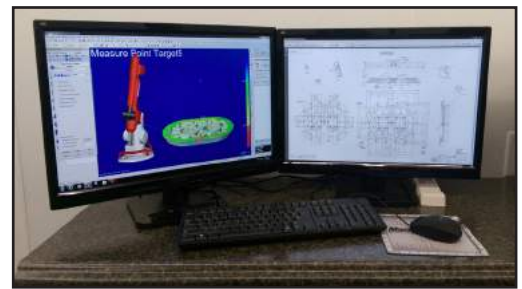
**Our Enhanced M-1003 Quality System** is coupled with our Advanced Engineering Resources and Support, which utilize SolidWorks® CAD software to create and analyze Solid Models, Drawings and TRUE 3-D Renderings.



In addition, we have implemented Ultra-Accurate CMM Inspections in our Clean Room. This CMM MASTER 3-D Gauge is an Ultra-Accurate 6-axis arm used for precise measuring, reverse engineering, building, and analysis.

- **Certification: ASME B89.4.22**
- **Probing volumetric accuracy:  $\pm 0.025\text{mm}$  (.00098in)**
- **Probing point repeatability:  $0.014\text{mm}$  (.00055in)**

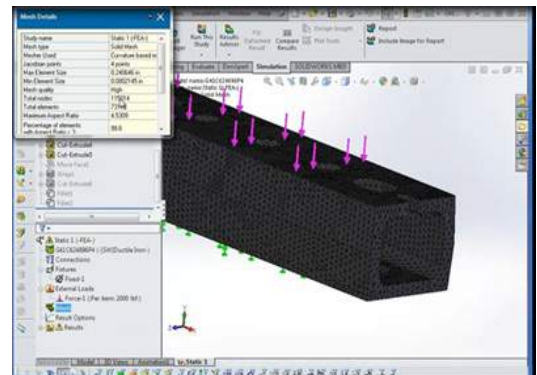
By coupling these technologies together, we are able to assure the end user, a quality part that is both reliable and functional.



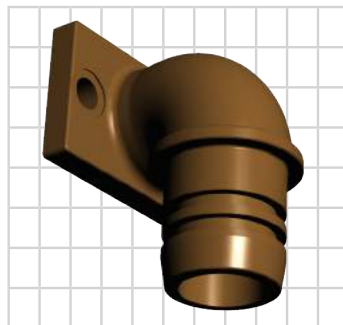
3D Scan and CMM



Environmentally Controlled Clean Room



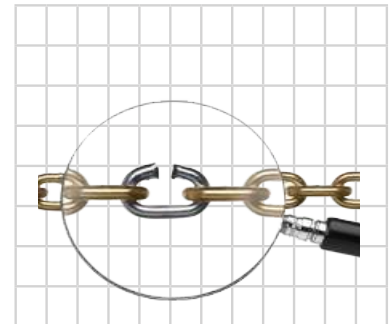
CMM Measuring for Accuracy



3D Modeling



Independent Lab Reports



Failure Analysis





## POWERRAIL'S "NEW-UX" PROGRAM



### New Unit Exchange — "New-UX™"

PowerRail is pleased to offer our customers the opportunity to upgrade their fleet with **100% New Product** in exchange for older cores.

With its recently trademarked name, our "New-UX™" program allows customers to send a core to one of our Remanufacturing Facilities and in return, receive a NEW part at a discounted rate. Contact our Sales Department for more details.



# POWERRAIL

CREATIVE INNOVATIONS ... CONTINUING TRADITION



*"Uniting Innovation, Engineering,  
Manufacturing and Distribution"*



## AIR BRAKES

Complete line of 26L Air Brakes - New and Unit Exchange



### PowerRail P/N

E8034030  
E40060576  
E40017143  
E40005088  
E9567871  
W557924  
E9563583  
W557237  
E9573051  
E40005089  
W554061  
W97368  
E9566234  
E6956120

### Portion Mounting Gaskets

H5 Relay Air Valve  
J-1 Relay Valve  
F-1 Selector Valve  
MU-2A Valve  
Quick Rel. Valve (26F)  
Service Portion (26F)  
26C Brake Valve  
26L Brake Valve  
P2A Appl. Brake Valve  
A-1 Charge. Cut-Off Valve  
J-1.4-14 & J-1.6-16 Relay  
J-1 Relay Valve  
KM2 Vent Valve  
DT3A Check Valve



**PRD16185288 - 26L Air Brake  
\*UNIT EXCHANGE IN STOCK\***



Packing Cup Replacements

### PRD P/N

### Packing Cups

W524478 2" Packing Cup  
W501863 3 1/2" Packing Cup  
W513750 5" Packing Cup  
W501530 6" Packing Cup  
W96556 8" Packing Cup  
E8062832 9" Packing Cup  
E8047865 10" Packing Cup  
E8057546 11" Packing Cup  
W99882 12" Packing Cup



Single Car Tester



W660999 - Angle Cock



3N1 Freight Valve



Air Hose - See Page 67-69



Brake Shoes - See Page 22



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## AIR CONDITIONING

### **ORANGE Split Type Air Conditioner Systems: 32K BTU for Switchers and 42K BTU for Road Units.**

The Orange is the ONLY direct 72V DC driven Locomotive Cab Air Conditioning System that DOES NOT NEED AN INVERTER.

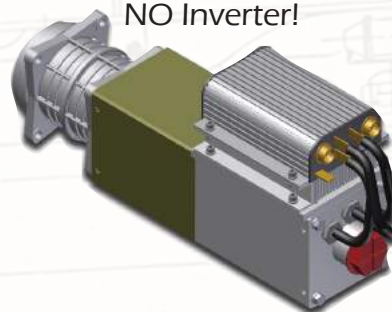
Running directly off the locomotive's batteries and using VRF (Variable Refrigerant Flow) technology, the Orange will save up to 30% in energy consumption while reducing power surges in the 72V DC system. Our compact split-system components can be custom configured to fit any cab without looking like a retrofit.

Patent Pending Design:

Breakthrough proven technology used in both off-road vehicles and MOW vehicles. Our new AC unit offers a compact, reliable, and brushless system while eliminating the Inverter known for major failures. The AC unit's lightweight and modular design offers the end user the option of easy maintenance by replacing any of the three major components on a UX (Unit Exchange) Basis.



Compressor - 72V Brushless Motor  
NO Inverter!



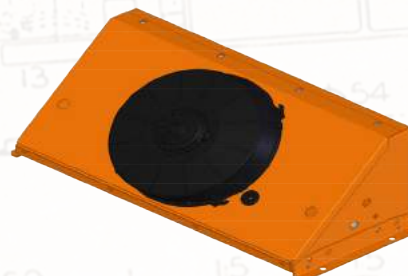
Evaporator - Air Handler



32,000 BTU Condenser  
for Switchers



42,000 BTU Condenser  
for Road Units



## Specifications and Features

Evaporators (Weight 10 lbs)	Achieving a cooling capacity of 32,000 BTU and an Amp draw at max load of 60A, with individual adjustable airflow and temperature controls
Refrigerant System	Non Ozone depleting refrigerant, type R134a, sealed systems (eliminates need for refrigeration techs for installation)
72V DC Power	Directly from the locomotives electrical systems battery-bank and/or Auxiliary Generator (Operating Voltage 68V to 74V DC)
Condenser/Compressor Weights	32,000 BTU 24 lbs./60 lbs. 42,000 BTU 24 lbs./46 lbs.



**POWERRAIL**

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## AIR HORNS

Complete Line of Air Horns, Air Horn Covers and  
All Related Parts



### **PowerRail P/N**

K1LAR	1 Chime
K3LR2	3 Chime Regular
K5LAR24	5 Chime Regular
WH-SA-110	Diaphragm Kit 3 Chime
WH-SA-112	Diaphragm Kit 5 Chime
E8185843	Rubber Mount for Roof

### **28 - 90 Volt DC Electronic Bell**

PowerRail Part# PRDEBELL82  
with 30 Ft Harness



- Sound level: 85dB(A) at 50ft
- Adjustable Intensity & Loudness
- Weather Resistant Speaker
- 125 Rings per Minute
- Operating temperatures range from -40°F to 158°F



Cloth and Stainless Air Horn  
Covers provide protection  
from weather and elements

### **PowerRail P/N**

Cover Blue 4 3/4"	Cloth - Air Horn Bell
Cover Blue 6 1/4"	Cloth - Air Horn Bell
Cover Blue 8"	Cloth - Air Horn Bell
Cover Blue 9"	Cloth - Air Horn Bell
Cover Blue 11"	Cloth - Air Horn Bell
Cover Set K3SET	Cloth - Air Horn Set 3 Chime
Cover Set K5SET	Cloth - Air Horn Set 5 Chime
P36935	CDF Stainless 3 Chime
P36945	CDF Stainless 5 Chime

### **Description**

We also carry a full line of Horn Valves and other related parts.

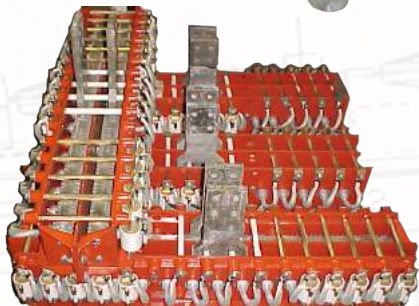
## ALTERNATORS

Complete Line of **True Blue™** Main Alternators & Exciters



### **PowerRail Style**

AR10  
AR11  
AR15  
AR16  
AR17  
TA17  
AR20  
GTA11  
GTA24



### **Other Related Items**

Diode Negative	E40029131
Diode Positive	E40029132
Diode Boot AR10	E8378316
Diode Socket	E8361524
Diode Positive AR20	E40032602
Diode Negative AR20	E40032603
Diode Boot AR20	E40048214
Spring Clip AR10	E8434285
Spring Clip D14	E8434286
Spring Clip TA17	E40132923
Rectifier Bank 2000V	E9084995
Brushholder D14	E8413188
Brushholder TA17	E8413189
Glass Oval AR10 6" x 12.13/16"	E8167423
Weather-stripping	E8489788
Glass Inspection Air Box	E8345780
Glass Diode Inspection	E8433679
Weather-Stripping	E8167425
Filler	E8169637
Brushholder Clip U Shape	E8330890
Slip Ring Assly	E8345866
AR10 Closure	E8390572



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## **AXLE GENERATORS & SENSORS, SPEED & TEMPERATURE**

Complete Line of Axle Alternators, Transducers and Sensors



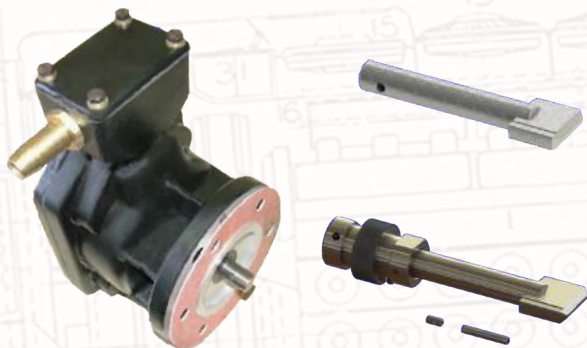
### **PowerRail P/N**

E9319132	Axle Alternator
E40063597	Sensor SD70
E40121230	Sensor Speed SD70
E40021658	Sensor Temperature
E40029233	Sensor Temperature
E40134844	Sensor Temperature
E40063567	Sensor Oil
E40081692	Sensor Radar K Band
G17MM24F1	Axle Alternator
G17MM24AF1	Axle Alternator
G17MM102F3	Traction Sensor
G17MM57H401	Speed Sensor
G17MM103	Traction Sensor
G41A296328AAP	Sensor Temperature
E40026403	Axle Generator
E40039172	Axle Generator Kit
Q1164	60 Pulse Axle Generator
PQ93262	Q-Tron 120 PPR Axle Generator



PowerRail proudly offers a line of New and UX  
**17MM24AF Series Axle Alternators.**

In addition, we carry a full line of replacement Spades  
and Complete Shaft & Coupling Assemblies.



Shaft with Coupling Part #	Length	Spade Part #	Coupling Part #
G41B550222G3	4 1/16"	G492A173G4	G41A250225P1
G41B550222G1	4 7/16"	G492A173G2	G41A250225P1
G41B550222G4	4 3/4"	G492A173G5	G41A250225P1
G41B550222G8	7 17/32"	G41A251988G3	G41A250225P1
G41B550222G2	6 1/4"	G492A173G3	G41A250225P1
G41B550222G11	6 3/4"	G41A257468G1	G41A250225P1
G41B550222G5	7 3/16"	G492A173G6	G41A250225P1
G41B550222G7	10 3/8"	G41A251988G2	G41A250225P1
G41B550222G6	9 1/16"	G41A251988G1	G41A250225P1
G41B550222G10	5 3/16"	G41A251988G5	G41A250225P1
G41B550222G9	10 13/32"	G41A251988G4	G41A250225P1





**"Uniting Innovation, Engineering,  
Manufacturing and Distribution"**



## AIR BRAKE - BALL VALVES

Air Brake Ball Valves for Locomotives

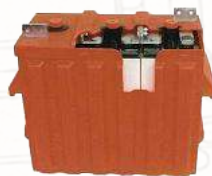


- Teflon Seats
- Chrome Plated Balls
- Stainless Springs
- Zinc Plated Handles
- Self Tapped Bodies

PowerRail Part #	Pipe Size	Porting	Vent	Position		Plain/ Locking	Handle Length
				Open	Closed		
E8454218	3/4"	Standard	7/32" B	90°	0°	Plain	1 3/4"
E8452907	3/8"	Full	5/64" B	0°	0°	Plain	3 3/4"
E8363508	1 1/4"	Full	-	180°	90°	Locking	7 1/4"
E8458815	1 1/2"	Standard	-	0°	270°	Wrench	-
E8354227	1 1/4"	Standard	-	0°	90°	Plain	4"
E8409024	1 1/2"	Standard	-	0°	90°	Locking	5 1/8"
E8351610	1/2"	Full	-	90°	0°	Locking	3 1/8"
E8419531	1/2"	Full	3/32" B	90°	0°	Locking	3 1/8"
E8363655	3/4"	Full	-	90°	0°	Locking	3 1/8"
E8351609	1"	Full	-	90°	0°	Locking	5 1/8"
E9332599	1 1/4"	Full	1/8" B	90°	0°	Locking	5 1/8"
E8412325	1"	Full	1/8" B-NPT	90°	0°	Locking	5 1/8"
E8423393	3/4"	Standard	1/4" B-NPT	90°	0°	Locking	3 1/8"
E8467908	3/4"	Full	3/32" B	90°	0°	Locking	3 1/8"
E8451783	1"	Full	1/8" B	0°	90°	Locking	5 1/8"
E8365217	1 1/4"	Full	-	270°	0°	Plain	5 13/16"
E8351608	3/8"	Full	-	90°	0°	Plain	1 1/2"
E8463756	1 1/2"	Standard	-	0°	90°	Plain	4"
E10538664	3/8"	Full	-	0°	90°	Locking Sealed	3 1/8"
E9569220	3/4"	Full	-	90°	0°	Plain	4 7/16"
E8365777	1/2"	Standard	-	0°	90°	Plain	3 3/4"
E40014305	1 1/4"	Full	-	90°	0°	Locking	5 1/8"

## BATTERIES

Complete Line of Locomotive  
Switcher and Road Batteries



QuickCharge Model 64V/25A  
115V or 230 V Battery Charger

LCD Display Amps & Volts

Set Internal Switch for AGM,

Deep Cell, Gels & Starting Batteries

\* **Built in SAFETY** — Cables not Live  
until connected to battery!!!!

**PowerRail # 20 HR 8 HR Length Width Height Wgt.**  
**8 Volt 4 Cell Series**

P8HHG31PR	344	282	27	8	11 7/8	167
P8EHG31PR	410	336	27	8	12 3/4	178
P8NS23PR	430	352	28 1/4	8 1/4	18 1/4	242
P8CH23PR	582	477	28 1/4	8 1/4	18 1/4	256
P8NS33PR	625	512	28 1/4	11 1/4	18 1/4	352
P8CH33PR	846	694	28 1/4	11 1/4	18 1/4	414

### 32 Volt 16 Cell Series Unitized Series

P16CH25PR	635	521	33 2/3	27	20 1/2	1238
P16CH33PR	846	694	43	27	20	1609

### Other Related Parts

E8197509	Terminal Lug Battery
E8211044	Terminal Lug Battery
E40015058	Bolt Kit
JUMPERRR31	Cable Jumper Kit



**3 Year Warranty**  
**36 Lbs 8.5 x 10**

### QuickCharge Battery Chargers

QP6425	64V/25A 117V 60HZ
QP3225	32V/25A 117V 60HZ

**See Car Body - Battery Grating on page 43**

### Acid Battery Water Level Indicator

PowerRail offer a simple solution for viewing  
water levels in Acid Storage Batteries.  
Our part # PRD16186371 utilizes a float with  
Min/Max lines for easy visual inspection.



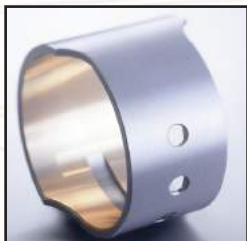


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Manufacturing and Distribution"*



## BEARINGS

Complete Line of Engine Bearings



### PowerRail P/N

E8028006  
E8028419  
E8029461  
E8029491  
E8068624  
E8071176  
E8136114  
E8237900  
E8253825  
E8341192  
E8354118  
E8361565  
E845218616  
E845221016  
E845508112  
E845508312  
E8455665  
E8455666  
E8455667  
E8455668  
E8455844  
E8455850  
E8455856  
E8455862  
E9571921

### Description

Thrust Bearing Collar  
Thrust Bearing Collar  
Bushing  
Oil Pump Bushing  
Floating Bushing  
Cam Bearing  
Con Rod Bearing Lower  
Bearing Front Bracket  
Bearing Rear Bracket  
Insert Roots Blown  
Con Rod Bearing Upper  
Insert Carrier  
Cyl. Upper Main Kit  
Cyl. Lower Main Kit  
Cyl. Upper Main Kit  
Cyl. Lower Main Kit  
Rear Lower Main  
Front & Int. Lower Main  
Center Lower Main  
Center Lower Main  
Rear Upper Main  
Center Upper Main  
Center Upper Main  
Front & Int. Upper Main  
Rocker Arm Bushing

G114X1150  
G114X1103-1  
G114X1111-4  
G114X1127-3  
G116X1184EFI  
G117X1028-2  
G117X1045-2  
G117X1050-1  
G117X1070  
G117X1075  
G142X1019  
G142X1042

Lower Grooveless  
Upper Grooved Main  
Thrust Washer  
Thrust Washer  
Large Cam  
Articulated Rod  
Upper & Lower Con Rod  
Grooveless Con Rod  
Upper Grooveless Con Rod  
Lower Grooveless Con Rod  
Standard Piston Pin Bushing  
Piston Pin Bush .30 oversize

## BRAKE HANDLES

Complete Line of Brake & Reverser Handles.  
Manufactured in Steel, Bronze and  
New Safety Plastic Versions



**Safety Handles - Color Coded and Glow in the Dark!!!**

### PowerRail P/N

**E8251349SAFETY**  
**E8204980SAFETY**

E8269348  
E8495188  
E9550359BLK  
E9550359  
G84B512767P1  
G41B557247G1

### Description

**Independent Brake**  
**Reverser Handle Safety**  
Independent Brake - Offset  
Independent Brake - Offset  
26C Automatic Plastic Safety Version  
26C Automatic Steel Construction  
Reverser Handle  
Reverser Handle

## BRAKE PRODUCTS

Complete Line of Brake Head,  
Keys, Pins & Bushings for  
Locomotive Trucks.



### PowerRail P/N

E8151703  
E8160059  
E8160060  
E8235906  
E8242785  
E8385297  
E8388332  
G41A210602P2  
E8101930  
E9501303  
E8100136  
E8101977

### Description

Brake Head  
Brake Head  
Brake Head  
Brake Head  
Brake Head  
Brake Head  
Brake Head  
Brake Shoe Key  
Brake Shoe Key  
Brake Shoe Key  
Brake Shoe Key  
Brake Shoe Key

### Comment

OE Style  
GP OE  
OE Style  
OE Style  
SW Trucks  
OE or Canted Style  
OE or Canted Style

13"  
14"  
15"  
16"  
20"

**Many others available on request.**



**POWERRAIL**

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## BRAKE SHOES

Complete line of 26L Air Brake New and Unit Exchange

### Locomotive Brake Shoes

	Shoe Length	Shoe Face Width	Face Design	Side Relief	Tie Plate	Taper	Rejection Lugs	RFP Alternative
<b>H33</b>								
	14"	3"	Center Relief	Yes	Yes	No	High Friction Only	V330 V392
<b>H43</b>								
	14"	3"	Full Face	Yes	No	45 End 5 Face	High Friction Only	N/A
<b>H63</b>								
	18"	3"	Center Relief	Yes	No	No	High Friction Only	V188 V381
<b>L35</b>								
	14"	3"	Center Relief	Yes	No	No	Low Friction Only	V553 V381
<b>L63</b>								
	18"	3"	Center Relief	Yes	Yes	No	Low Friction Only	V555 V556 V575

**We offer a complete line of both High and Low Friction**

## BRAKES - HANDWHEEL & RATCHET

Complete Line of Wheel and Ratchet  
Style Handbrakes



PowerRail P/N	Model	Dia	O.A.	B.H. LF	End Link
E6948643	850-7	22"	6'-5"	5'-11"	18
E6946788	850-7	22"	14'-4"	13'-10"	1091-A
E6938301	850-7	16"	14'-0"	13'-6"	1091-A
E6948643	850-B	18"	6'-5"	5'-11"	1091-A
E6949785	850-C	22"	14'-10"	14'-4"	1091-A
E6942139	850-7	22"	15'-8"	15'-2"	1091-A
E6939749	850-7	20"	15'-8"	15'-2"	1091-A
E6955210	850-C	22"	6'-5"	5'-11"	1091-A
E6949199	850-B	18"	6'-5"	5'-11"	1091-A
E6953126	850-C	18"	15'-4"	14'-10"	1091-A

PowerRail P/N	Model	Dia	O.A.	B.H. LF	End Link
E9093520	850-7	22"	11'-6"	11'-0"	1091-A
E9097828	850-7	18"	11'-6"	11'-0"	1091-A
E9501206	850-7	20"	11'-1"	10'-7"	1091-A
E9322184	850-7	20"	13'-0"	12'-6"	1091-A
E9507177	850-7	20"	10'-11"	10'-5"	1091-A
E40019843	850-B	22"	6'-5"	5'-11"	1091-A
E10576362	850-B	22"	35'-4"	34'-10"	1091-A
E6969970	850-B	22"	33'-4"	32'-10"	1091-A
E40037149	850-1	22"	6'-6"	7'-0"	18

O.A. — Overall Chain Length

B.H. LF — Chain Length Below Hand Lever Fulcrum



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Manufacturing and Distribution"**



## BRUSHES - CARBON

Complete Line of Premium  
Carbon Brushes. Traction Motor  
— Alternators Main and A  
Generators Blowers, Heaters  
and Fans

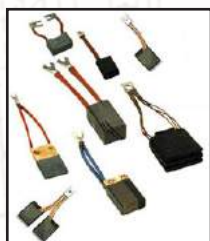


PowerRail P/N	Application
E40034666	AR10
E6727520	Aux. Gen.
E9096661	Aux. Gen.
E9096992	Aux. Gen.
E8271326	Aux. Gen. Grid Blower
E4996232	Aux. Gen.
G998X67 G998X90	Fuel Pump
G149X1011-1 G149X1051	Fuel Pump
G2X4460	Heater
G6727520P1	Aux. Gen.
G41A239329P2	GTA11 Alternator for Steel Ring
G221F223P1 G221F234P1	Fuel Pump

PowerRail P/N	Application
E8307806	D12-D25 Main Gen.
E8413190	D14/D16 Main Gen.
E8330994 - Old E8417868 - New	D32 Main Gen.
E9322054 2 wafer	D27-D57 TM
E9322058 3 wafer	D77-D78 TM
E40070976 5/8 x 2	With Insulation
E40047198 3/4 x 1 1/2	D87 24/TM D87 16/TM
E8078488	Fuel Pump
E9569980	Cab Heaters
E1906989	Starter
G41A330412P2	Alternator
G41B537963P1	752E8 TM
G41B535803P3	752AF & AG TM
G149X1051-1	Cab Heater Motor

**\*Many Others Available**

Please call us for our Appendix of Part Numbers  
We Also Offer Full Line of Springs & Studs



## BRUSHHOLDERS

Complete Line Of New And  
Unit Exchange Brushholders



PowerRail P/N	Holder Application	Brush Size
E8084210	D12 D22 Main Generator	5/8 x 1 5/16
E8124419	D15 D25 Main Generator	5/8 x 1 5/16
E8331071	D14 D32 Main Generator	.842 x 1 5/16
E8338116	Spring Cell Brush Holder	
E8413188	D14 Alternator	3/8 x 3/4
E8413189	AR10/TA17 Slip Ring	1/2 x 1 1/4
E5551980	A7159 Ailiary	1 X 5/8
E5387140	A7159 Ailiary	5/8 x 1 3/4
E8174433	D29 Traction	5/8 x 1 3/4
E8290124	D31 Traction	5/8 x 1 3/4
E8417729	D57/D77/D78/D87 Traction Motor 16/Mtr	5/8 x 2
E9550251	D87B Traction 24/Mtr	.713 x 1 1/2

PowerRail P/N	Holder Application	Brush Size
G41B530658G1	GY19/GY27/GY50 Main Generators	1/2 X 1
G6733792G1	GT566/568/581/586/603 Main Generators	3/4 1 1/4
G334B746 G6732876	GT558 Main Generator	5/8 X 1 1/4
G41B531649 G41C633095	GTA22/24/25/26 Main Generator	3/4 X 1 3/4
G41B537170G1	GMG185A Alternator	3/4 X 1 3/4
G41C632667G1 G41C632667G6	GE752 Radial Traction Motor	3/4 X 2 1/4
G41C633771G1 G41C633771G3	GE752 Reaction Traction Motor	3/4 X 2 1/4

## BUMPERS CAB - SAFETY HEAD

Complete Line of Cab Safety Bumper Protection

E10568293 13 1/4" Long	E40050919 14 1/4" Long
E10596355 23" Long	E40072060 16.56" Long
E10615556 Left side 8"	E40072097 11" Long
E10615560 8" Long	E40100014 22.154" Long
E10643171 17" Long	E40100015 18" Long
E10643172 8 1/4" Long	E40126589 14" Long
E10643173 15 1/4 Long	E40141486 4" Long
E10643249 18" Long	E9312193 Smoke Retardant
E10666194 17 Long	E9312229
E40047167 8" Long	E9321670 20 3/4" Long

\*Partial Listing of  
Common Bumpers



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Manufacturing and Distribution"**



## BULBS

Complete Line of Premium Grade Light Bulbs:  
Filament, Halogen, and LED



### POWERRAIL ENHANCED PRODUCTS

#### PRD16184541 6-Button Switch

Designed to meet the vibration and electrical requirements of locomotives that utilize electronic/computer enhanced switches.



- Solid state 1 Million click reliability
- Exact Terminals
- Exact Drop In
- Sealed Unit
- Custom Silk Screen Button Labels

#### E8287294LED Lamp Holder Flat or Domed



- Long Life LED Light - Lasting Up To 100,000 Hours
- Multiple Colors Available To Choose From Including: Amber, Blue, Green, Red, and White
- Designed For Durability with Polycarbonate Lens



#### Cab Ceiling Lights Single or Dual Lamp

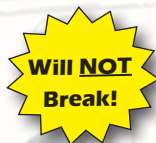
PowerRail Part #:

E9096838 - Single Lamp

E9502221PRD - Dual Lamp  
**Enhanced Design**  
with One or Both Bulbs  
On/Off Option

#### Polycarbonate Globe Light Fixture

- Polycarbonate Material
- **WILL NOT SHATTER** (like glass does)
- High Heat Applications



8004613PRD

#### Safety Lights

PRD16187089 Step Light



G41A205337ABP2  
LED Walkway Lights

PowerRail P/N	Description	Style
44	2 Watt 6 Volt	Filament
44LED	2 Watt 6 Volt	LED Dimmable
1828	1.8 Watts 37 Volt	Filament
1828LED	1.8 Watts 37 Volt	LED
1866	.25 Watt 6.3 Volt	Filament
1866LED	.25 Watt 6.3 Volt	LED
50A19	75 Volt 50 Watt Rough Service	Filament
50A19Premium	75 Volt 50 Watt	Filament
RS50A19LED-6WLL	75 Volt 6 Watt Rough Service Complies to AAR Standard S-5515 IP67 Waterproof	LED Totally Sealed
RS50A19LED-6W-SL1	75 Volt/6W Rough Service IP65 - Universal Application	LED
RS50A19LED-3WCORN	75 Volt 6 Watt Rough Service Complies to AAR Standard S-5515 IP67 Waterproof	LED Totally Sealed
30S11	30 Watt 75V	Filament
SLS30S11LED-9	30 Watt 75V	LED
200PAR56	32 Volt 200 Watt Headlight	Filament 200 Watt
200PAR56FRA	32 Volt 250 Watt Headlight FRA Approved	Halogen 250 Watt
350PAR56	75 Volt 300 Watt Ditch Light	Filament 350 Watt
350PAR56FRA	75 Volt 400 Watt Ditch Light FRA Approved	Halogen 400 Watt
LED350PAR56	75 Volt Headlight/Ditch Light IP67 Waterproof	LED



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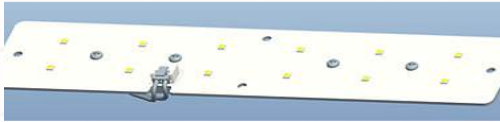
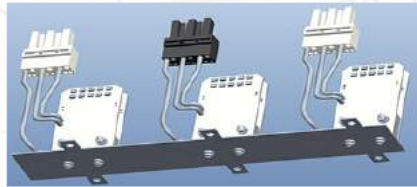
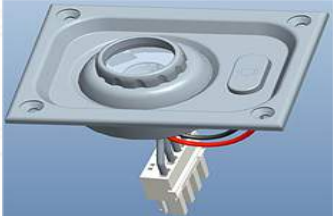
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## BULBS

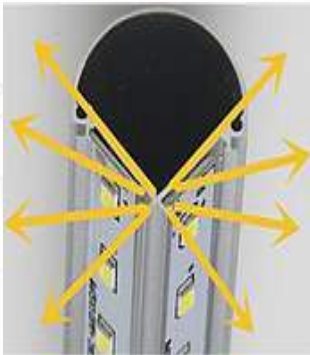
LEDs for Freight and Passenger Locomotives and Cars

**LED Circuit Board Technology for Reading  
Lights, Specialty Lights, and Upgrading from  
Incandescent to LED**



### T8 LED Tubes

- provide optimum light distribution for interior spaces
- V-shaped mount and rotatable end-cap provides homogeneous light distribution
- provide 50,000-hour life cycle to reduce maintenance costs
- 22W energy consumption per 4-foot length
- available in three color temps - warm, neutral or cool white

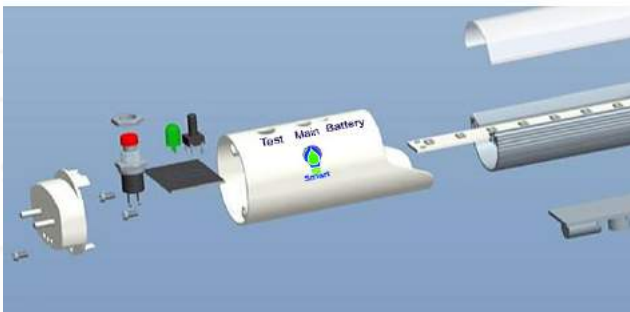


PowerRail Part #	Operating Voltage	Power	Length	lpw	
				Clear	Frost
SLS-T8V-G60-24V-10W-__	24V DC	10W	588mm	120 lpw	110 lpw
SLS-T8V-G120-24V-22W-__	24V DC	22W	1,198mm	120 lpw	110 lpw
SLS-T8V-G150-24V-28W-__	24V DC	28W	1,498mm	120 lpw	110 lpw
SLS-T8V-G60-240V-10W-__	240V AC	10W	588mm	120 lpw	110 lpw
SLS-T8V-G120-240V-22W-__	240V AC	22W	1,198mm	120 lpw	110 lpw
SLS-T8V-G120-240V-28W-__	240V AC	28W	1,498mm	120 lpw	110 lpw



**NOW  
AVAILABLE!**

### Emergency Backup Power T8 LED Tube



- integrated battery backup power for multiple emergency applications
- can be used for Facilities, Passenger Transit LRV, Locomotives and Cars
- designed to replace all external backup power ballasts and drivers to keep lighting ON in the event that the main voltage is off.
- incorporates test buttons to ensure battery is operational for Maintenance Personnel or Fire Marshal certification.
- can be suited to operate on various voltages



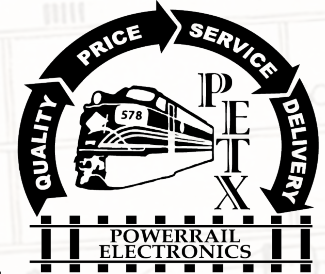


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## **CABINETS - HIGH VOLTAGE**

PowerRail Electronics Technology Offers a  
Full Line of New and Remanufactured  
High Voltage Cabinets



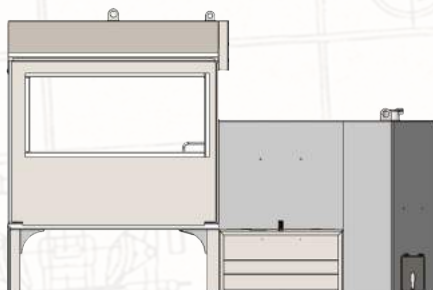


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## CABS

Complete Line of Regular & New Crashworthiness Cabs, Frames and Fuel Tanks



**Cabs**



**Cab Door Assemblies**



**New Frames**



**Cab Stuffed with All Components**



**E8167296  
Flame Arrestor Fuel Tank**



**Fuel Tanks - Standard & New Crashworthiness**



**Full Line of Fuel Gauges**

- |           |  |
|-----------|--|
| E9515153  | Fuel Gauge Float Type<br>3900 Gallons      |
| E9321144  | Fuel Gauge Float Type<br>4000 Gallons      |
| E8438327  | Fuel Gauge Side Mounted<br>4000 Gallons    |
| E40058437 | Fuel Gauge Float Type<br>5000 Gallons SD70 |



**E9334250  
Awning Window**



**Modified Switch for  
1 or 2 Lights**



### **Cab Ceiling Lights Single or Dual Lamp**

**PowerRail P/N:**

**E9096838 - Single Lamp**

**E9502221PRD - Dual Lamp**

**Enhanced Design**  
with One or Both Bulbs  
On/Off Option



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## CABLE 27 PIN MU - RECEPTACLES & HANGERS

Complete Line of Premium MU Cables & Hangers



PowerRail P/N	Overall Length	Type
E8195546	5 Ft.	MU Cable
E8208511	7 1/2 Ft.	MU Cable
E8195547	8 Ft.	MU Cable
E8195548	9 Ft.	MU Cable
E8196711	11 Ft.	MU Cable
E8200922	Hanger 2 Piece Split w/Hook	
E9573822PRD	Hanger w/Hook Enhanced Long Life	
HR-50	Hanger Solid/Fixed	
PP16540	MU Wire Holder - Class 1 Style	

Note: Hangers add prefix C with Hook & Chain



E820092



PP16540



E9573822PRD

**\*Long Life  
Heavy Duty  
Rubber\***

## CARD HOLDERS

Complete Line of Card Holders

PowerRail P/N	Description	Comment
C90260	4 Slot	Holds Qty 4 6" x 9" Cards
C90227	Single Slot	11 1/2" x 13 1/2" Single Card 6 Hole Mount
C90262	Single Slot	3 1/2" x 4" 4 Hole Mount
C10909	Vertical	Single Slot 9" x 11" 3 Hole Mount
G84B100710P1	Horizontal	Single Slot 9" x 11" 3 Hole Mount
PP17672	8 Slot	8 Slot 4 hole 12 1/2" x 19 3/4"
PP12208	Single Slot	8" x 11 1/2"
G84B109851	Single Slot	9" x 11"
G84B102294	3 Slot	10 1/2" x 12 1/2" 4 hole

\*Many others available on request.



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Manufacturing and Distribution”**



## CHEMICAL LINE

A complete line of bio-degradable chemicals for the rail industry



PowerRail, Inc. is dedicated to providing alternate solutions to the rail industry at competitive pricing.

The newest addition to our family is the “Seacole C&H Chemical Line” which offers a full line of ECO-FRIENDLY railroad chemistries engineered exclusively for the production, cleaning, and maintenance of locomotives.

We are proactive in providing products that eliminate hazardous waste and the subsequent environmental effect.

### 299 - WATER LEAK



Concentrated vivid tracing dye for use in detecting water leaks in water cooled engines. Provides a vivid visual marker to trace and see the location of water leaks in normal lighting. Visibility is enhanced using a black light.

<u>PowerRail P/N</u>	<u>Size</u>	<u>Comment</u>
299TRACER-1	16 Oz	Liquid - 12 Per Case

### 288 FUEL LEAK



Concentrated vivid tracing dye for use in detecting fuel leaks in diesel engines. Provides a vivid visual marker to trace and see the location of water leaks in normal lighting. Visibility is enhanced using a black light.

<u>PowerRail P/N</u>	<u>Size</u>	<u>Comment</u>
288-16-4	16 Oz	Liquid - 4 Per Case
288-2-15	2 Oz	Liquid - 15 Per Case
288-2-96	2 Oz	Liquid - 96 Per Case

### 810 - HEAT EXCHANGER INHIBITOR

Multi-metal safe corrosion inhibitor packaged in convenient, safety-oriented Sticks for use in locomotive diesel engine cooling systems to protect against premature failure due to corrosion.



<u>PowerRail P/N</u>	<u>Size</u>	<u>Comment</u>
810WATER-BX	15Lb	Stick 15Lb per Box





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Manufacturing and Distribution”*



## CHEMICAL LINE

A complete line of bio-degradable chemicals for the rail industry



### **850 - HEAT EXCHANGER INHIBITOR**

Multi-metal corrosion inhibitor packaged in convenient, safety-oriented liquid format, for use in locomotive diesel engine cooling systems to protect against premature failure due to corrosion.

**NO MEASURING - Just Pour Directly Into Radiator**



<b><u>PowerRail P/N</u></b>	<b><u>Size</u></b>	<b><u>Comment</u></b>
850COR-5	5 Gallon	Liquid
850COR-55	55 Gallon	Liquid
805COR-275	275 Gallon	Liquid



### **RADIANCE - HEAT EXCHANGER INHIBITOR WITH TRACER**

A concentrated, multi-metal corrosion inhibitor for use in locomotive cooling water systems to protect metals from premature failure due to corrosion and prevent scaling. Contains a concentrated vivid tracer dye for use in detecting water leaks in water-cooled locomotive engines.

Inhibits corrosion of all metals including cast iron, steel, copper, brass, and solder.



<b><u>PowerRail P/N</u></b>	<b><u>Size</u></b>	<b><u>Comment</u></b>
Radiance-5	5 Gallon	Liquid
RADIANCE-55	55 Gallon	Liquid





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## **CHEMICAL LINE**

A complete line of bio-degradable chemicals for the rail industry



## **RUST INHIBITORS**



PowerRail P/N	Size	Comment
PRD571RUST-5	5 Gallon	Liquid
PRD571RUST-55	55 Gallon	Liquid
PRD573RUST-5	5 Gallon	Liquid
PRD573RUST-55	55 Gallon	Liquid
PRD577RUST-5	5 Gallon	Liquid
PRD577RUST-55	55 Gallon	Liquid



### **571**

Highly concentrated liquid inorganic rust inhibitor engineered for all iron, steel, yellow and soft metal parts when additional corrosion, oxidation or rust protection is needed.

Specifically designed to provide in-process rust protection of parts and for short-term part storage.

Provides superior rust protection in wash and final rinse sections of all aqueous industrial parts washers, from heated high-pressure spray cabinet and conveyorized systems, to free standing manual and immersion-type tanks.

Compatible with most alkaline cleaning compounds when simultaneously used.

Harmless to engines and equipment.

### **577**

A highly concentrated liquid inorganic rust inhibitor engineered for indoor storage for all iron and steel metal parts when additional corrosion, oxidation or rust protection is needed.

Specifically designed to provide in-process rust protection of parts and for short-term part storage.

Provides superior rust protection in wash and final rinse sections of all aqueous industrial parts washers, from heated high-pressure spray cabinet and conveyorized systems, to free standing manual and immersion-type tanks.

Compatible with most alkaline compounds when simultaneously used.

Harmless to engines and equipment.

### **573**

A pigmented solvent-based rust proofing compound designed for long-term outdoor storage of metal parts.

Easily applied and removed and provides a transparent film with up to a year of outdoor rust protection.

Dries quickly to a semi-transparent blue coating/film, allowing for easy reading of identification marks.

Easily applied by brush, dip, or spray.





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## CHEMICAL LINE

A complete line of bio-degradable chemicals for the rail industry



### LOCOMOTIVE EXTERIOR WASH



PowerRail P/N	Size	Comment
BREAK-32	32 Oz	Spray Bottle
BREAK-5	5 Gallon	Liquid
TOTAL-1	1 Gallon	Liquid
TOTAL-5	5 Gallon	Liquid
TOTAL-55	55 Gallon	Liquid
TOTALB-1	1 Gallon	Liquid
TOTALB-5	5 Gallon	Liquid
TOTALB-55	55 Gallon	Liquid



#### **BREAK**

Ready-to-use, multipurpose, heavy-duty liquid detergent for cleaning all hard surfaces.

Specifically formulated to clean oily residues and sooty grime found in factories, bathrooms, vehicles and offices.

Virtually safe on all hard surfaces including: machinery, painted surfaces, wallpaper, counters, desks, and industrial fixtures.

Contains no phosphates, is non-flammable, biodegradable and environmentally friendly.

#### **TOTAL**

A heavy duty, aluminum safe, high pH, multipurpose degreaser and detergent capable of cleaning and degreasing everything from hard-surface concrete shop floors & walls, to industrial equipment, to company vehicles.

Safe to use anywhere water is tolerable!



#### **TOTAL B**

A super duty, aluminum safe, high pH, alkaline degreaser and detergent engineered to attack the toughest grease, grime, soil or any other unwanted contaminants associated with facility maintenance cleaning.

Seacole C&H's most powerful multipurpose degreaser and cleaner that is aluminum safe and biodegradable.

Safe to use anywhere water is tolerable!





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## CHEMICAL LINE

A complete line of bio-degradable chemicals for the rail industry



### PARTS WASHER - ALUMINUM SAFE



PowerRail P/N	Size	Comment
DET14EX-50	50 Lb	Pail
DET14EX-450	450 Lb	Pail
14EXCAL-50	50 Lb	Pail
14EXCAL-450	450 Lb	Pail
SPRAYDETEL-5	5 Gallon	Liquid
SPRAYDETEL-55	55 Gallon	Liquid

### SPRAYDET 14EX DRUM



#### **SPRAYDET 14EX**

Aluminum safe, inhibited alkaline powdered detergent containing NO useless fillers or additives engineered to produce superior cleaning results for the removal of the toughest contaminants on all metal & plastic surfaces.

#### **BIODEGRADABLE**

Performs in all aqueous industrial parts washers including heated high-pressure spray cabinets, conveyor style spray wash systems, freestanding manual and immersion type tanks, and more!

#### **14EX CALIBUR**

Aluminum safe, inhibited alkaline powdered detergent containing a proprietary blend of surfactants specifically engineered to produce superior carbon removal and cleaning results on all metal & plastic surfaces.

#### **BIODEGRADABLE**

Performs in all aqueous industrial parts washers including heated high-pressure spray cabinets, conveyor style spray wash systems, freestanding manual and immersion type tanks, and more!

#### **SPRAYDET EL**

A highly concentrated, aluminum safe, liquid detergent engineered to produce superior cleaning results for the removal of the toughest contaminants on all metal and plastic surfaces.

#### **BIODEGRADABLE**

Performs in all aqueous industrial parts washers including: heated high-pressure spray cabinets, conveyor style spray wash systems, free Standing manual and immersion type tanks, and more!





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## CHEMICAL LINE

A complete line of bio-degradable chemicals for the rail industry



### PARTS WASHER - STEEL SAFE



PowerRail P/N	Size	Comment
ACTION-1	1 Gallon	Liquid
ACTION-5	5 Gallon	Liquid
ACTION-55	55 Gallon	Liquid
AQUASOLVE-1	1 Gallon	Liquid
AQUASOLVE-5	5 Gallon	Liquid
AQUASOLVE-55	55 Gallon	Liquid
SPRAYDETRS-50	50 Lb	Pail
SPRAYDETRS-50	450 Lb	Pail



#### ACTION CLEANER

Premium quality, heavy-duty, biodegradable liquid detergent with butyl for industrial use in cleaning all hard surfaces.

Extremely powerful in cutting grease and oil eliminating the need to scrub or brush and highly effective in both hot and cold water.

#### AQUA SOLV II

Aluminum safe, pH neutral, liquid detergent engineered to be specifically used in manual type fountain style aqueous parts washers or "Sink on a Drum" type units to produce superior cleaning results for the removal of the toughest contaminants.

Environmentally green by eliminating the need for harsh cleaning solvents. Biodegradable & environmentally safe.

Contains specialty surfactants for excellent carbon, grease, and grime removal. Non-VOC by CARB definition per ASTM D1298.

#### SPRAYDETRS

A highly alkaline powdered detergent engineered to produce superior cleaning results for the removal of the toughest contaminants on all FERROUS metal surfaces.

A powerful rust stripper that provides a one-step cleaning process that eliminates acid pickling, neutralizing, and rinsing steps.



Before

After





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Manufacturing and Distribution"**



## CHEMICAL LINE

A complete line of bio-degradable chemicals for the rail industry



### DEFOAMER O

A highly concentrated, non-silicone, liquid foam suppressant that is compatible when used with all SPRAYDET detergents when additional foam control is necessary.

Specifically designed to quickly eliminate foaming caused by certain equipment types & designs, water quality, types of soils being cleaned and heavy soil loading.

Provides superior foam control in wash and rinse sections of all aqueous industrial parts washers from heated high-pressure spray cabinet & conveyorized systems to free standing manual and immersion type tanks.

PowerRail P/N	Size	Comment
DEFOAMER-5	5 Gallon	Liquid



### DIRT BUSTER KIT

A heavy duty, aluminum safe, high pH, alkaline multipurpose degreaser and detergent capable of cleaning and degreasing everything from hard-surface concrete shop floors & walls, to industrial equipment, to company vehicles.

Packaged as an EZ Kit for greater economy. Contents include 2 - 2.5-gallon jugs that when mixed together produce 30 gallons of super concentrate.

PowerRail P/N	Size	Comment
DIRTBUSTER-25	2.5 Gallon	Package



### EZ SPREAD ICE MELT

A fast, efficient, calcium chloride based ice melt packaged in a safety-oriented lightweight EZ spread 10 pound bag capable of being dispensed using one arm only.

Highly effective at or above temperatures of -25°F!

Economic formulation requires less volume when compared to conventional salt-based ice melts and leaves no white stains or residue.

Railroad Approved for Weight Safety Practice!!!!

PowerRail P/N	Size	Comment
CAL-10	10 Lb	Bag
CAL-10SKID	10Lb	Qty 160 Bags per Skid



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## CHEMICAL LINE

A complete line of bio-degradable chemicals for the rail industry



# BioGuard Plus 6™ Biocide and Multifunctional Diesel Fuel Additive

## DESCRIPTION, FEATURES & BENEFITS

The only EPA registered fuel microbiocide containing a multifunctional premium diesel additive. Contains **BioGuard™** microbiocide to prevent microbial contamination and fuel filter plugging. Formulated with **Diesel Guard™** to help prevent ultra low sulfur diesel and biodiesel related problems and significantly improve heavy-duty diesel engine performance. Helps reduce fuel consumption, smoke, soot, odor and harmful exhaust emissions.

Contains less than 15ppm of sulfur to comply with ultra low sulfur diesel regulations.

Product performance has been documented in ASTM, SAE and engine manufacturer tests.

## Continuous Use Helps To...

- Prevent bacteria and other microbiological growth
- Stabilize fuel to keep it fresh for up to 2 years or more
- Improve thermal stability beyond industry standards
- Control moisture to prevent sludge
- Lubricate fuel injectors & pumps to prevent premature wear
- Prevent fuel filter plugging and extend fuel filter life
- Prevent rust & corrosion
- Increase cetane number
- Dosage 1 Gallon per 1500 Gallons Diesel
- Clean up and prevent fuel injector deposits
- Exceed Cummins L-10 "Superior" injector deposit cleanliness rating
- Reduce piston and combustion chamber deposits
- Increase power and performance\*
- Reduce smoke, odor, transom soot \*
- Reduce harmful exhaust emissions\*
- Contains no alcohol
- Eliminate the need for other fuel additives
- Reduce fuel consumption up to 7.6%\*

BGDP632	Qty 12 32 Oz Bottles per case	BGDP625	Qty 2 2.5 Gallon per case
BGDP601	Qty 4 1 Gallon per case	BGDP6-55	55 Gallon Drum

## SEASONAL PRODUCTS

### 688S - PORTABLE TOILET SUMMER

A concentrated liquid odor control agent for use in chemical toilets in airplane, locomotive, RV, bus and portable toilet applications.

A liquid formulation that mixes readily with water, glycol or salt solutions.

No messy powder to handle or clean up.

Contains no hazardous or toxic ingredients.  
NO FORMALDEHYDE.



### 688W - PORTABLE TOILET WINTER

A concentrated liquid odor control agent for use in chemical toilets in airplane, Locomotive, RV, bus and portable toilet applications.

A liquid formulation that mixes readily with water, glycol or salt solutions.

No messy powder to handle or clean up.

Contains no hazardous or toxic ingredients.  
NO FORMALDEHYDE.

Provides protection from freezing down to -40°F

PowerRail P/N	Size	Comment
688S-55	55 Gallon	Liquid - SUMMER
688S-55	55 Gallon	Liquid - WINTER



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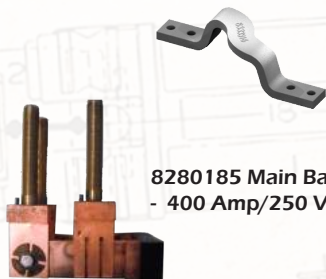
## CIRCUIT BREAKERS

Complete Line of Heavy Duty Circuit Breakers.  
Below is a Listing of Common Items



<b>PowerRail P/N</b>	<b>Amp</b>	<b>Comment</b>	<b>PowerRail P/N</b>	<b>Amp</b>	<b>Comment</b>
E8458705	2	SINGLE POLE	E8448859	50	DOUBLE POLE
E8456915	5	SINGLE POLE	E8316879	50	DOUBLE POLE
E8458697	10	SINGLE POLE	E8433382	60	DOUBLE POLE
E8458698	15	SINGLE POLE	E8485669	60	DOUBLE POLE
E8458699	30	SINGLE POLE	E6945270	70	DOUBLE POLE
E8458735	3	DOUBLE POLE	E8433383	100	DOUBLE POLE
E8458728	5	DOUBLE POLE	E8433381	150	DOUBLE POLE
E8458736	5	DOUBLE POLE	E8458741	15	TRIPLE POLE
E8458739	15	DOUBLE POLE	E8458742	30	TRIPLE POLE
E8458727	15	DOUBLE POLE	G41A218545P4	15	SINGLE POLE
E9090434	15	DOUBLE POLE	G41B544907P1	15	SINGLE POLE
E8458724	30	DOUBLE POLE	G41B544907P2	25	DOUBLE POLE
E8458726	35	DOUBLE POLE	G41A212414P14	15	DOUBLE POLE
E8458738	40	DOUBLE POLE	G41A212414P2	30	DOUBLE POLE
E8414231	50	DOUBLE POLE			

We also carry a complete Line  
of Electrical Buss Bars and Shunts



8280185 Main Battery Switch  
- 400 Amp/250 Volt



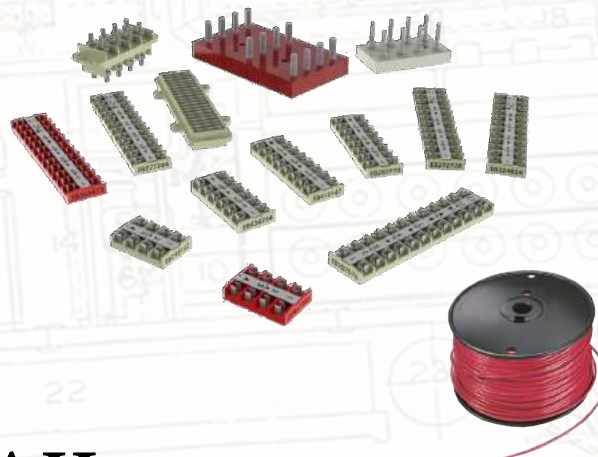
## CLAMPS

Complete Line of Clamps for Multiple Applications



## CONTACTS, ELECTRICAL WIRE & TERMINALS

Complete Line of Electrical Contacts,  
Wire and Terminals



**POWERRAIL**

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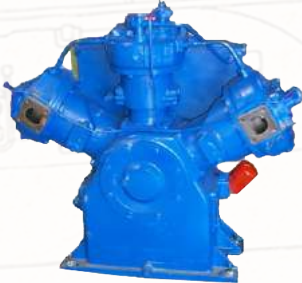


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## COMPRESSORS - AIR & WATER

Complete Line of New & Remanufactured **"True-Blue™"** series  
WBO, WBG and WXO Air Compressors, Parts and Components



Compressor Test Cell

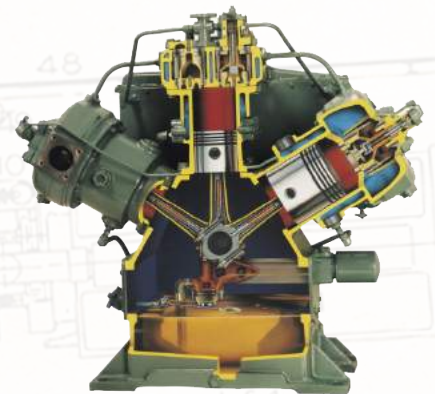


Quality Build Procedures



Remanufactured Components

<b><u>New and Remanufactured</u></b>	<b><u>Description</u></b>	<b><u>Type</u></b>
WXO	Air Cooled - 3 Cylinder	Low & High Base Single & Double Shaft
WBO	Water Cooled - 3 Cylinder	Low & High Base Single & Double Shaft
WLNA9 Series	Water Cooled - 3 Cylinder	Low & High Base Single & Double Shaft
WLAA9	Water Cooled - 4 Cylinder	Low & High Base Single & Double Shaft
WBG	Water Cooled - 6 Cylinder	Low & High Base Single & Double Shaft



## MOTOR DRIVEN AIR COMPRESSOR

Complete Line of Motor Driven Air Compressors utilizing PowerRail **"True-Blue™"** work scopes.  
All motors are rewound for Reliability & Durability.



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## COMPRESSORS - AIR & WATER

Complete Line of New & Remanufactured **"True-Blue™"** series  
WYO, WBO and WBG Air Compressors, Parts and Components

### Common Parts Listing By Air Compressor Model

WYO LP Head	E8042133
WYO LP Cyl.	E8059939
WYO LP Piston	E40017901
WYO LP Rod	E8033545
WYO HP Head	E8033550
WYO HP Cyl	E8083614
WYO HP Piston	E8343422
WYO HP Rod	E8033545
WBO LP Head	E8237532 Both Styles
WBO LP Cyl.	E8237539 Old Style
WBO LP Cyl.	E9518774 New Style
WBO LP Piston	E8338021 Old Style
WBO LP Piston	E40017901 New Style
WBO LP Rod	E8033545
WBO 1/2 Bearing	E8496981
WBO HP Head	E8238541 Old Style
WBO HP Head	E8347435 New Style
WBO HP Cyl	E8237531 Old Style
WBO HP Head	E8347435 New Style
WBO HP Piston	E8343422 Old Style
WBO HP Piston	E40017901 New Style
WBO HP Rod	E8033545

Old Style 8 bolts from underneath  
New Style 4 bolts from underneath 4 from top



E8236433  
Coupling  
Air Compressor



E8323180  
Coupling  
Engine



E8234958  
Bushing



### Valves New and Old Style

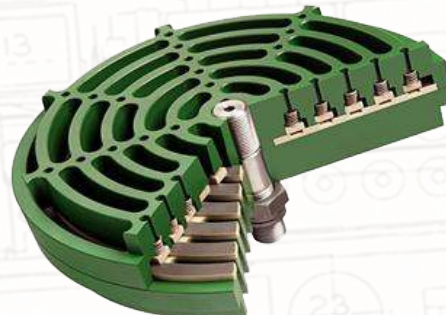
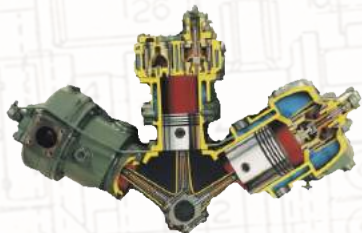
E9319946
E8424969
E9319947
E8424968

### Description

HP Valve Inlet
HP Valve Outlet
LP Valve Inlet
LP Valve Outlet

## TOP DECK KITS

Kits Include all Heads, Liners, Rods, Pistons, Rings, Bearings, Valves, Gaskets & Hardware  
to do a Complete rebuild in the field. Kits available for WYO, WBO & WBG style compressors  
Unit Exchange or Outright



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## CONTROL STANDS

PowerRail Electronics Technology Offers a  
Full Line of **New Control Stands with  
100% New Components**



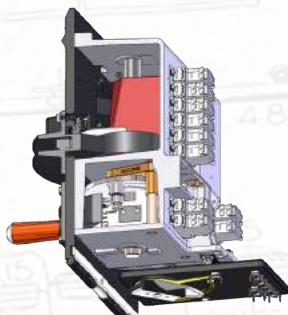
**New Stand Ready  
for Install**



PowerRail Electronics  
Technology also Provides  
Full Service of Repaired  
Control Stands and Lockers



**100% New & Remanufactured Controllers.  
Dynamic and Non Dynamic**



### **PowerRail P/N**

E9093629

E8226959

E9325903

E9091052

E8227211

### **Description**

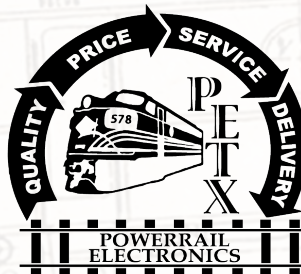
Dynamic Plastic Face

Dynamic Steel Face

Dynamic Plastic Face

NON-Dynamic Plastic Face

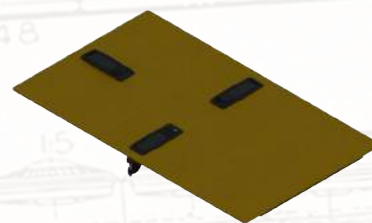
NON-Dynamic Steel Face



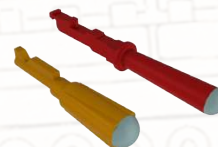
**\*Ask Us About Our New  
LED Dimmable Bulbs  
for Control Stands**



**New Anti-Rattle Doors  
with Adjustable Locks**



**Custom Panels  
Related to PTC  
Installations**



**Safety Handles Page 21**

**Contactors, Controllers,  
Relays and Modules Page 41**



**POWERRAIL**  
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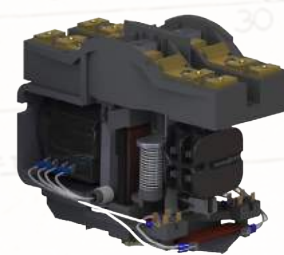
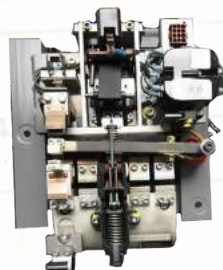
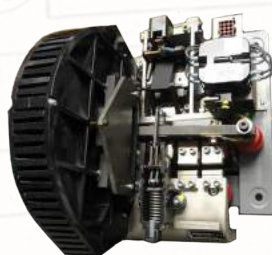
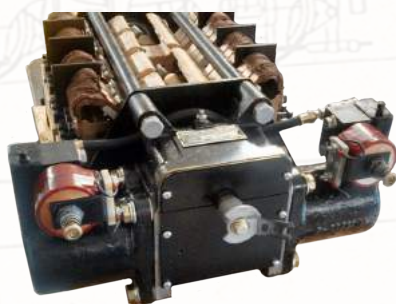
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## **CONTACTORS, CONTROLLERS, RELAYS & MODULES**

Complete Line of Control Stands, Controllers, Contactors, Relay, Voltage Regulators and Modules.  
Our Line includes **New**, and **"True-Blue™"** Unit Exchange

**Below is a BRIEF Listing of our Quality New & Rebuilt Products**



### **PowerRail P/N**

### **Description**

E8400143

Contactor Control Cabinet

E8251126

Contactor Gen. Shunt Field

E8192805

Contactor Power

E8458534

Contactor Power

E8461331

Contactor Magnetic

E8453175

Motor Module Control

E8463776

Motor Module Control

E9091052

Controller Non Dynamic

E9093629

Controller Dynamic & Brake

E9325903

Controller Dynamic & Brake

E8330790

Voltage Regulator 3 Terminal

E8351980

Voltage Regulator 4 Terminal

E8484375

6 Panel Light Enhancement

E9322456

Rheostat 1500 Ohms

E40040084

SGC 5000A Power Contactor

E8131665

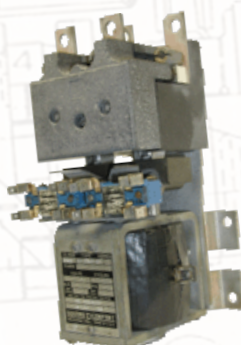
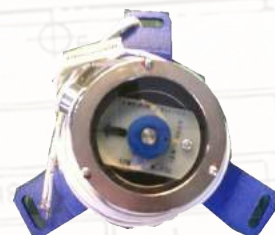
Reverser 4 motor 4 Contact

E8131666

Reverser 2 Motor 2 Contact

G17FL & G17FM

Aux and Other Modular Panels



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## COUPLERS - YOKES & DRAFT GEARS

Complete Line of Heavy Duty  
AAR Certified Couplers, Yokes and  
complete Assemblies New & Unit Exchange



<b>POWERRAIL P/N</b>	<b>Comment</b>
E8034983	Coupler Type E Non Alignment
E8219072	Coupler Type E Non Align Control 4888
E8349831	Coupler Type F Align Control 8301
E8385515	Coupler Type E Align Control 8311/8306
PRD16184269	Mark 50 For 100 Ton Train Cars
G499A423P10/E8420235	Draft Gear NC-390
E6915380/G499A180P6	Yoke Only NC 390
E8420236	Draft Gear and Yoke Assembly NC 390
E8220283/E8252488	Single Draft Gear & Yoke Assy MS-485-6A
E8269424	Double Draft Gear & Yoke Assy MS-485-5A
E8246352	Draft Gear MS-485-5A
G343B261P1/E8253666	Draft Gear MS-485-6A
E8246351	Draft Gear
E8420237/G499A423P9	Draft Gear NC-391
E8420238/G41D71673G2	Draft Gear And Yoke Assembly NC 391
E8314758	Yoke Only NC 391
E8062944	Lock Coupler
E8069851	Thrower Coupler
E8068119	Lifter Assembly Coupler
E8081918	Coupler Pin 3 15/16 x 13 OAL
E9500878	Coupler Pin 3 17/32 Dia. x 12 5/8 In Long
E9500877	Coupler Pin 3-17/32 Dia. x 13 In Long
E8057698	C10 Knuckle Pin
E8055811	Knuckle Type E50BE
PRD16184064	Block for Non Alignment Coupler

We Offer a Full Line of Parts for the  
Complete Coupler Section



New and Unit Exchange Draft Gears



NC-390 Draft Gear



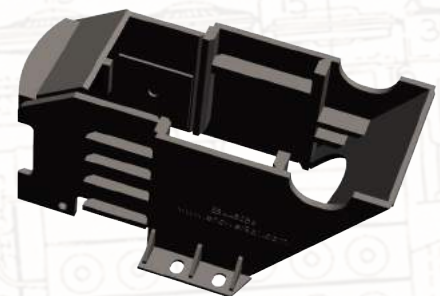
NC-391 Draft Gear



Full Line of Coupling Parts



PRD16184064  
Alignment Block for Pocket



E8448086 Pocket



**POWERRAIL**

CREATIVE INNOVATIONS ... CONTINUING TRADITION

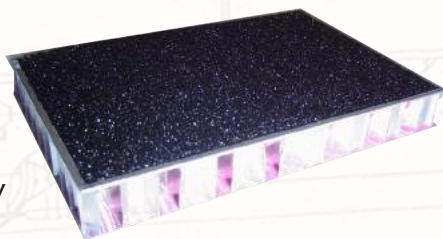


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### DOOR - LOCOMOTIVE FLOORING

Complete Line of PRD Locomotive Cab Flooring  
Provides Slip Resistance, Durability and a Permanent  
Solution. The Light Weight Aluminum 4' X 8' Panels  
are Coated with a  
Proprietary Blend  
of Minerals and an  
Abrasive Epoxy Grit.  
Providing Strength,  
Durability, and Safety  
in Locomotive Cabs



### DOOR - BATTERY GRATING

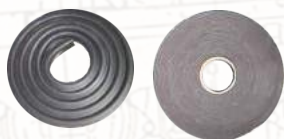
PRD16184575 - 1" Fiberglass Sheet  
PRD16184576 - 1 1/2" Fiberglass Sheet



### DOOR - WEATHER STRIPPING

Complete Line of Weather-Stripping and Enhanced  
Weather-Stripping Seals

<b>PowerRail #</b>	<b>Description</b>
E40014788	SD70 Rear Cab Window and Cab Windshield 15 Ft
E8286959	Weatherstripping Sponge Rubber 5/32 x 1/2 x 50Ft
E8329872	Weatherstripping 7 Ft 4 Inch long
E8419908	Number Board Weatherstripping 80", 1/8" Groove
E9544282	Hinge Guard Weatherstripping 58 7/8"
E6979365	SD60, 70, 80 Cab Door Overlap 74 7/16 x 21 7/16
E8489788	Hood & Sanding Door 10 Ft. Lg 1/8" x 1/4" Groove
E9544282	Hidge Door Guard 58 7/8 Long



### DOOR - CAB

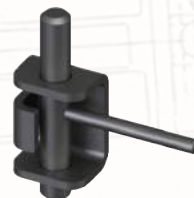
Complete Line of Cab Doors, and Windows  
PowerDoor is Aluminum that Will Not Rust!  
Complete with Oversized Frame and Lock and  
Wiper holes already Pre-Drilled!

<b>PowerRail #</b>	<b>Description</b>
E8461881PRD	Alum. Door with Frame Only
E9526353	Glass for Door and Windshield
E8284665	Lock Assembly Keyed
E8465525	Lock Assembly Non Keyed
PRD17164	Slide Lock
E9528757	Window Side 16 x 26 1/4



E8048140  
4 x 4 Hinge

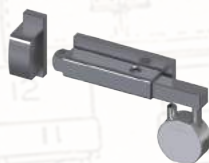
### DOOR - LATCHES & LOCKS



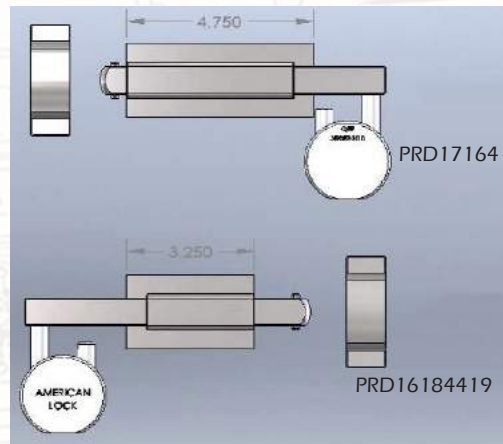
E8158536 Door Latch Assembly

- Improved Lever Design for Smooth Operation
- Advanced Painting Method for Extended Life
- Passenger & Class 1 Approved

E8278056  
Slide Lock



PRD17164  
Slide w/ Lock



Modesty Lock

Special Keyed Versions & Other Styles Available





*"Uniting Innovation, Engineering,  
Manufacturing and Distribution"*



## DOOR - LOCOMOTIVE CARBODY

Complete Line of Enhanced **Fiberglass** Doors.

Doors are Fiberglass in lieu of steel. Will Not Rust  
and reduced weight minimizes injuries  
related to these products.

**60% OR MORE Lighter than Steel Doors!!!**



PowerRail #	Description	Length	Application
E9555859	Battery Door	52"	GP/SD Styles - Eng'r & Helper
E9321887	Air Brake Door	63"	GP/SD Styles - Helper Side
E9321884	Air Brake Door	75 1/2"	GP/SD Styles - Eng'r Side
E10584100	Cab Fresh Air	28 3/4"	SD Styles - Helper Side
E10584138	HVAC Door	64 7/8"	SD Styles - Helper Side
E40034382	Battery	48 3/4"	SD Styles - Helper Side
E10576735	Air Brake	64 7/8"	SD Styles - Eng'r Side
E40019273	Air Brake	28 3/4"	SD Styles - Eng'r Side
E40121076	Battery	27"	SD Styles - Eng'r Side
E10666450	Air Brake	29 1/4"	SD Styles - Eng'r Side
E10666451	HVAC w/Vents	29 1/4"	SD Styles - Eng'r Side

## ELECTRIC SEMI-CONDUCTOR TESTER

### PowerRail DST5000 Tester

- Test SCR's/Thyristors
- Test Silicon Diodes
- Test Transistors/IGBT's
- Test Rectifiers
- Test IGTS's



### Three Very Important Tests:

- Adjustable from zero to 5000 Volt for testing Forward Blocking. A digital Ammeter indicates leakage current at semiconductor voltage rating.
- Adjustable from zero to 5000 Volt for testing Reverse Blocking. A digital Ammeter indicates leakage current at semiconductor voltage rating.
- Adjustable voltage for Gating or Firing devices. A digital DC Voltmeter indicates actual gate trigger voltage (Vgt). A digital DC Ammeter indicates actual gate current (Igt).

## ELECTRICAL - ELECTRONIC

Complete Line of Quality Electrical, Lighting,  
Resistors, Diodes, Thyristor's and other  
related components



### PowerRail #

### Description

E40048214	Insulating Diode Boot
E40029131	AR10 Diode Negative
E40029132	AR10 AR11 Diode Positive
E40032602	AR20 Diode Positive
E40032603	AR20 Diode Negative
E40053999	Diode Positive
E40032602	Diode Negative
E8374003	AR10 Transformer
E9561605	AR11 Transformer
E8380922	Resistor AR10 50W 5 OHMS
E8429166	Resistor 400W 3.75 OHMS
E8004092	Walkaway Step Light
E8004613	Engine Room Light Globe Glass
E8332375	Rubber Standard Lamp Base 4 Holes
E8332374	Rubber Standard Lamp Base 2 Holes
E8207382	Engine Room Guard and Shade Assembly
E8047227	Lamp Guard Assembly Cage
E8228323	Number Light Socket Lamp - Yellow Rubber
E8332375	Socket Lamp, 4 Holes, Rubber, Standard Base



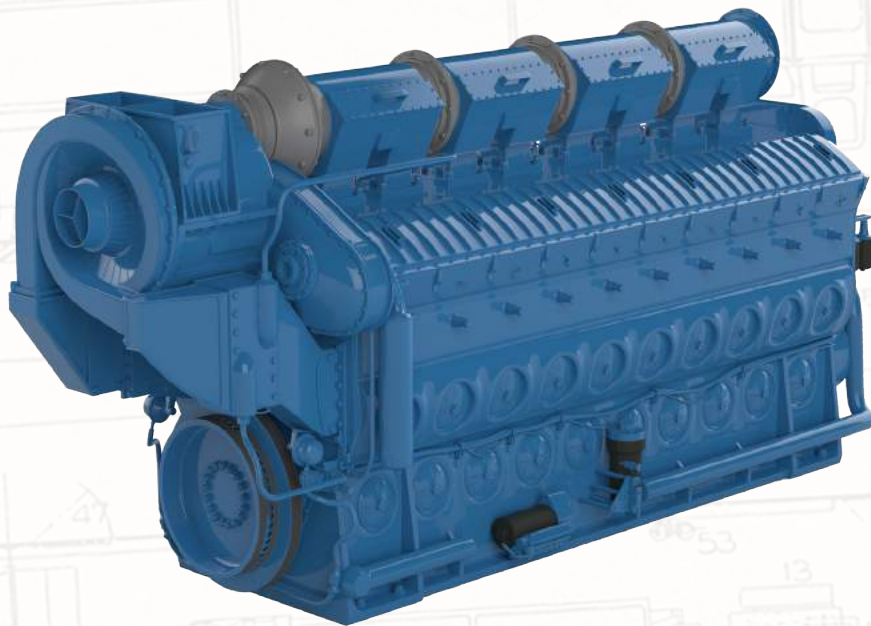


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## ENGINES

Complete Line of **"TRUE BLUE™"** Quality Remanufactured Engines



Our Product Line offers a complete line of Remanufactured Engines and Engine Components for the Rail Industry.

We Offer a wide range of 567 - 645 - 710 and 7FDL Type Engines that can support most programs. Services include Unit Exchange, Remanufactured Outright and Repair/Return.

All Engines are mounted on a Dynamometer to ensure the end user will have a **"TRUE BLUE™"** Turn-Key Engine.

Our shop is **Certified AAR M-1003** and the Quality and Experience of our staff has earned approvals by most Class 1, Class II and Class III and International Railroads.



**All Engines are Dyno Tested in our Newly Upgrade 5,000 HP EFI Capable Dynamometer to ensure Quality and Reliability**



**We also offer FULL Service & Field Support for rebuilding Engines in the Field including Line Boring**



**QUALITY  
& RELIABILITY  
IS JOB #1**



**Experience is the key**





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Manufacturing and Distribution"*

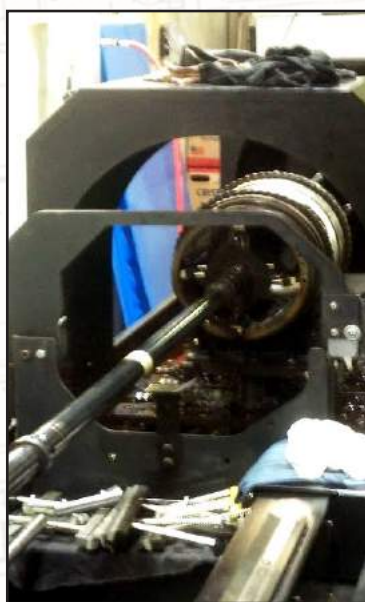
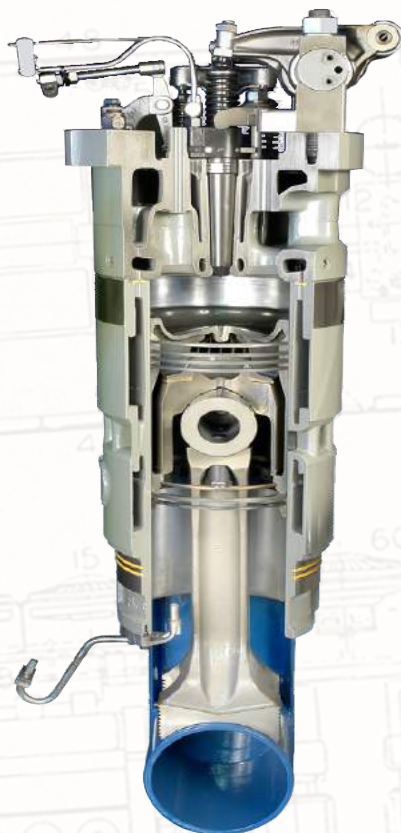


## ENGINE - POWER ASSEMBLIES

Complete Line of **"TRUE BLUE™"** Quality Remanufactured Power Assemblies,  
HLP's, Cylinder Heads and other related parts



Machining, Re-Qualifying Cylinder Heads



Honing and  
Re-Qualifying Liners



Assembly and testing of all  
components





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Manufacturing and Distribution"*



## ENGINE POWER ASSEMBLIES & HLP UNITS

Complete Line of Premium **New** Power Assemblies

AAR Certified Quality

**Diamond 9 Head**



- Machined & Assembled in USA
- Trademark on **Diamond 9 Head**
- Raw materials meet or exceed current OEM Specifications
- Proven Field Approvals with multiple OEM Builders , Class 1, Regionals, Shortlines & Internationally throughout the world
- Water jackets are thoroughly inspected via bore scope to ensure no debris or casting sand remains.
- Over 39 checkpoints are measured and documented to ensure quality conformance
- State of the art casting techniques reduce porosity and maintain excellent coolant flow
- State of the art casting techniques reduce porosity and maintain excellent coolant flow



Type	New P/A	UX P/A	New HLP	UX HLP
567B	No	Yes	No	Yes
567BC	No	Yes	No	Yes
567C	Yes	Yes	Yes	Yes
567CE	Yes	Yes	Yes	Yes
645E	Yes	Yes	Yes	Yes
645E3	Yes	Yes	Yes	Yes
645E3B	Yes	Yes	Yes	Yes
645E3C	Yes	Yes	Yes	Yes
710	Yes	Yes	Yes	Yes

**\*Please Call Us for Our Line of EPA Tier Packs\***



Diamond 9 Head Offers  
Universal Design 645 & 710  
E40021329 Complete with Valves  
E40021327 Bare Head Only





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## ENGINE PARTS OFFERING

Complete Line of New Power Assembly & Related Components  
Below is a sampling of our broad range of offerings

<b>PowerRail P/N</b>	<b>Description</b>	<b>New</b>	<b>UX</b>
E8415993	Liner Cast Iron 645	Yes	Yes
E9318833	Liner HUB 645	Yes	Yes
E9090233	Liner Chrome 645	Yes	Yes
E9546509 - E40014531	Liner HUB 710	Yes	Yes
E40060841	Fork Rod	Yes	Yes
E9544257	Blade Rod	Yes	Yes
E8367800	Carrier 645	Yes	Yes
E40006129	Piston Tin Plated HURG Roots	Yes	No
E40006130	Piston Tin Plated HURG 645E3	Yes	No
E40006131	Piston Tin Plated HURG 645E3B	Yes	No
E40033365	Ring Set CI Liner 645	Yes	No
E9323296	Ring Set Chrome 645	Yes	No
E8269842	Piston Pin 645E	Yes	Yes
E40078951	Piston Pin 645E3B	Yes	Yes
E8268641	Lower Liner Insert 645	Yes	No
E9316139	Lower Liner Insert Hi HP	Yes	No
E9583686	Gasket Install Kit Power Assy	Yes	No
E9581924	Cyl. Head Seat Ring Viton	Yes	No
G121X1306	Rotator Valve Cylinder	Yes	No
G140X1063 G140X1073	Piston Crown	Yes	No
G142X1050	Piston	Yes	No
G142X1052	Piston Pin	Yes	No
G7FDL Style	Jackets & Liners		
G7FDL Style	Short Packs and Full	No	Yes



**POWERRAIL**

CREATIVE INNOVATIONS ... CONTINUING TRADITION



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Manufacturing and Distribution"*



## ENGINE PARTS OFFERING

Complete Line of New Engine Parts & Components  
Below is a sampling of our broad range of offerings



• Camshafts	• Crabs & Bolts	• Cross Heads	• Cylinder Test Valves
• Cylinder Heads	• Engine Protectors	• Fuel Lines	• Fuel Pumps
• Gears	• Hand-Hole Covers	• Liners	• Oil Lines
• Oil Pumps	• "P" Pipes	• Piston & Rings	• Push Rods
• Rods/Carriers	• Water Elbows	• Water Jumpers	• Water Pumps



## Common Stock Parts

<b>PowerRail P/N</b>	<b>Description</b>
E8028006	Thrust Collar 645
E8039842	Lube Oil Line
E8048880 - Handle	Cylinder Test Valve 645 T- Handle
E8085260	Valve Bridge Assembly
E8135330	Trust Washer 645
E8160209	Fuel Line
E8195996	Flex Coupler
E8206804	Water Jumper 567C
E8414444	Water Elbow
E9093027	Water Jumper 645
E9319504	Rocker Arm Assy Injector 645
E9319505	Rocker Arm Assy Exhaust 645
E9544046	Thrust Collar 710
E9546230	Rocker Arm Assy Injector 710

<b>PowerRail P/N</b>	<b>Description</b>
E9546232	Rocker Arm Assy Exhaust 710
E9549577	P Pipe 567
E9549578	P Pipe 645
E9581924	Cylinder Head Ring Viton
E40036607	Cylinder Test Valve 710
E40046561	P Pipe 710
E40102453	Trust Washer 710
G114X1218	Bonded Drive Couplings
G116X1114 / G116X1115	Cam Segment
G124X1058 / G124X1068	CrossHeads
G140X1826-1 / G140X2950	Fuel Line
G150X1232	Linkage
PRD16184502	Oil Sampling Valve 1/4 NPT



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## ENGINE PARTS OFFERING

Complete Line of New Engine Parts & Components  
Below is a sampling of our broad range of offerings



### PowerRail P/N

XXXXX  
E8261194  
E8419849  
E8320994  
E8320995  
E8476507  
E8476508  
E8476509  
E8476510  
E9541514  
E9541512  
E9541511

### Description

CrankShafts EMD-Style & GE-Style  
Cam Segment 567/645 Non Hardened Engine  
Cam Segment 567/645 Non Hardened Engine  
Block Assembly Camshaft Drilled Flange  
Block Assembly Camshaft Plain Cap  
Main Bearing Cap Center 645  
Main Bearing Cap 12C 645  
Main Bearing Cap Intermediate 645  
Main Bearing Cap Rear  
Main Bearing Cap Intermediate 710  
Main Bearing Cap Center 710  
Main Bearing Cap IRear 710



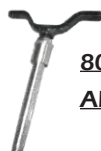
### Cylinder Test Valves



E 8048880PRD  
E40036607PRD



- Class 1 Approved Design
- Solid One Piece Machined Nut in lieu of Welded Nut
- Designed for 567 — 645 and 710 Series Engines
- Utilizes Standard 5/8" Socket 6 or 12 Point



8048880 T-Handle Design  
Also Available



We stock full Line of Remanufactured  
Crankshafts and Cam Shafts



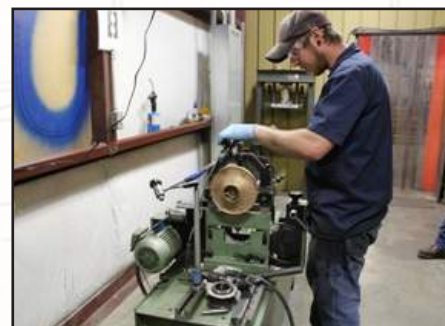


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## ENGINE PUMPS - POWERAIL MANUFACTURING

Complete Line of New and **"True Blue™"** Unit Exchange Water and Oil Pumps  
Utilizing Premium Parts and Components

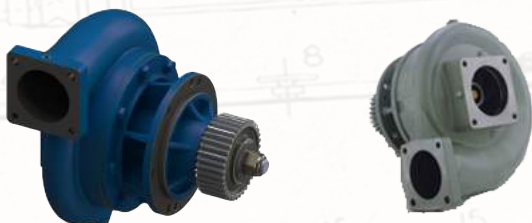


Balancing Impeller

<b>PowerRail P/N</b>	<b>Description</b>	<b>Application</b>
E9516925	Water Pump Left Hand SMALL	Roots Blown
E9516924	Water Pump Right Hand SMALL	Roots Blown
E9503461	Water Pump Left Hand Small	Turbo 16-567/12-645
E8296348	Water Pump Right Hand Small	Turbo 16-567/12-645
E9503461	Water Pump Left Hand Small	High Capacity
E9332825	Water Pump Left Hand Large	Turbo 16-645 - 710
E9510677	Water Pump Right Hand Large	Turbo 16-645 - 710
E40059826	Water Pump Right Hand	Tier 1
E40054890	Water Pump Left Hand	Tier 1
G125X1111	Water Pump	Unit Exchange



Precise Positioning



Torquing per MI

E8176033	Piston Cooling Pump	8-567/8-645E
E8122947	Lube Oil / Piston Pressure	12-567 / 8-645E
E8122949	Lube Oil / Piston Pressure	16-567 & 16-645 Roots 12-645 Turbo
E8296366	Lube Oil / Piston Pressure	16-567 / 16-645 / 12-710
E40055149	Scavenging Oil Pump	16-710G



Precise Production



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## ENGINE PUMPS - POWERRAIL MANUFACTURING

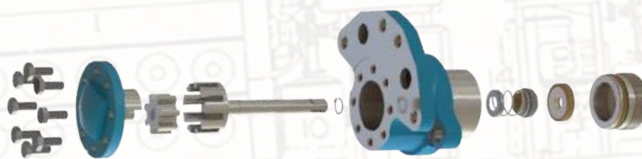
Complete Line of New and "True Blue™" Unit Exchange Fuel Pumps  
Utilizing Premium Parts and Components



### POWERRAIL ENHANCEMENT

All Remanufacture Pump Motors will offer  
**NEW** Armatures, Bearings and Brushes for Reliability

E5540387	1/4HP DC Fuel Pump Motor	with New Armature
E4947308	3/4HP DC Fuel Pump Motor	with New Armature
E8296428	1/4HP DC Fuel Pump & Motor	with New Armature
E40042770	3/4HP DC Fuel Pump & Motor	with New Armature
E8498154	Soak Back Pump 1.7GPM	Threaded Connection
E8152343	Soak Back Pump 1.7GPM Assy with Motor	Threaded Connection
E8498155	Soak Back Pump 1.7GPM	Flanged Connection
E8411403	Soak Back Pump 1.7GPM with Motor	Flanged Connection
E8498156	Soak Back Pump 3 GPM	Flanged Connection
E8492180	Soak Back Pump 3GPM Assy with Motor	Flanged Connection
E40009239	Soak Back Assembly 3/4 HP 3GPM	Flanged Connection
E8080284	Fuel Pump 4GPM	1/2NPT Threaded Connection
E8422951	Fuel Pump 6GPM	Flanged Connection
E8425609	Fuel Pump & Motor 3/4HP 6 GPM	Flanged Connection
E40042770	Fuel Pump & Motor 3/4HP 6 GPM	Flanged Connection
E40122943	AC 4GPM Transfer Pump	
E40095692	AC 4GPM Transfer Pump	
G132X1750	AC Transfer Pump	
G123X1645	Fuel Pump	Unit Exchange
G132X1535	Fuel Pump	UX - Bendix Type
G149X1014	Fuel Pump	Unit Exchange



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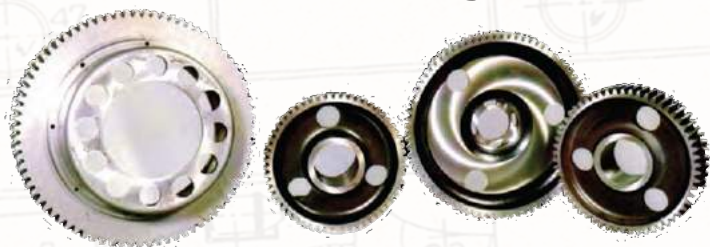


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## ENGINE GEARS

Complete Line of New Engine Gears



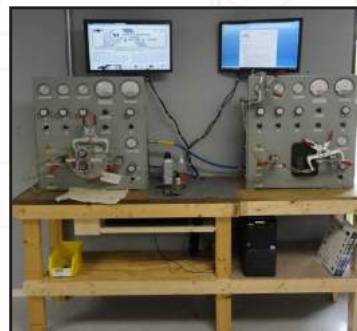
PowerRail P/N	Description
E8483944	Drive Gear 58T
E8543203	Drive Gear 58T
E8483945	Drive Gear 58T
E8069019	Drive Gear 79T
E8360843	Drive Gear 79T
E8069014	Drive Gear 79T
E8360839 / E8141909	122 Acc. Drive Gear
E8416930	Starter Ring Gear 265T
E40051536	Starter Ring 265T
E8416930-PRD3PC	Starter Ring 265T 3 Piece



## ENGINE PROTECTORS

Complete Line of New and ReManufactured  
"True Blue™" Engine Protectors

PowerRail P/N	Description
E9332828UX	Turbo Delta P
E8446372UX	Turbo Type P
E8474255UX	Roots Type P
E9506013UX	Roots Delta P
E8362040UX	Crankcase Monitor
E8370362UX	Crankcase Monitor



PowerRail P/N	Description
E9535870	Turbo Delta P Rebuild Kits
E9535868	Turbo Type P Rebuild Kits
E8467306	Roots Type P Rebuild Kits
E9535869	Roots Delta P Rebuild Kits

## FANS - ENGINE COOLING & GRID

Full Line of New and Remanufactured  
"True Blue™" Engine Fans and Electrical Grid Fans



PowerRail P/N	Description
E5526299	36" 12HP 10 Blade
E8311479	48" 28HP 6 Blade
E8310416	48" 35HP 8 Blade
E8379212	48" 35HP 9 Blade
E9517833	48" 50HP 8 Blade
E9576052	48" 50HP 8 Blade 2 Speed
E8281907	48" 18HP Resistor Grid Fan
E9514316	48" 36HP Resistor Grid Fan
E8388333	48" Fan Guard
E9096227	Air Cylinder 1 5/8 Stroke
E9569860	Air Cylinder 3 1/2 Stroke
E9558527	Fan Blade ONLY



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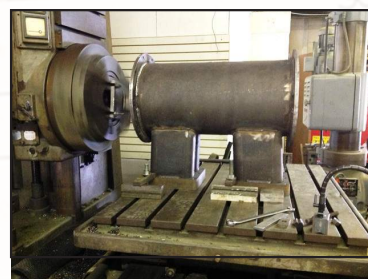


## EXHAUST PRODUCTS

Complete Line of Exhaust Chambers, Expansion Joints and Full Systems.  
Manufactured by PowerRail's **Avoca Rail Products** Division



567 Chambers - 645 Chambers - 710 Chambers



xxxxxxx Chamber Assembly 12-645

xxxxxxx Chamber Assembly 12-645

xxxxxxx Chamber Assembly 12-645

xxxxxxx Chamber Assembly 12-645

E9316231 Chamber Assembly 16-645

E9316232 Chamber Assembly 16-645

E9316233 Chamber Assembly 16-645

E9316234 Chamber Assembly 16-645

**\*Call for 567 & 710 Chamber**

Exhaust - Front

Exhaust - Intermediate Front

Exhaust - Intermediate Rear

Exhaust - Rear

Exhaust - Front

Exhaust - Intermediate Front

Exhaust - Intermediate Rear

Exhaust - Rear

E8408987 Expansion Joint

E8408985 Expansion Joint

E40026936 High Heat ThermaSeal Gasket

E40026937 High Heat ThermaSeal Gasket

E40055466 High Heat ThermaSeal Gasket

E40026939 High Heat Therma Seal Gasket

E8287827 Bolt

E8287827B14 Bolt High Heat - 710 Engine

E9338626 Nut

E9557143 Turbo Screen

E40155024 Turbo Screen

10 Inch

14 Inch

10 Inch

14 Inch

Exhaust Stack

Expansion Joint to Turbo

Exhaust Stack

Exhaust Stack

Exhaust Stack

645

710



### THERMASEAL

- Increased Thickness for INCREASED Bolt Retention
- Special Ceramic filled with proprietary material to increase working temperatures of approx. 2,000° F.



**POWERRAIL**

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## EXHAUST PRODUCTS

Complete Line of Exhaust Chambers, Expansion Joints and Full Systems

G128x1353-4	Manifold Section	for Single Pipe Manifolds
G128x1404	Clamp	for Single Pipe Manifolds
G128x1413	Gasket At Turbo Transition	for Dual Pipe Manifolds
G128x1444-7	Transition Section	for Single Pipe Manifolds
G128x1495	Complete Manifold	8 Cylinder - SS Version
G128x1496	Manifold Section - Leg 1R & 4R	8 Cylinder - SS Version
G128x1497	Manifold Section - Leg 1L & 4L	8 Cylinder - SS Version
G128x1498	Manifold Section - Leg 2R & 3R	8 Cylinder - SS Version
G128x1499	Manifold Section - Leg 2L & 3L	8 Cylinder - SS Version
G128x1629	End Cover	for Dual Pipe Manifolds
G128x1635	Main "T" Section	for Dual Pipe Manifolds
G128x1636	Bellows Connector	for Dual Pipe Manifolds
G128x1637	Gasket At Sections	for Dual Pipe Manifolds
G128x1638	Transition Section	for Dual Pipe Manifolds
G128x1639-1	V-Band Clamp	for Dual Pipe Manifolds
G128x1640-2	Complete Manifold	16 Cylinder Dual Pipe
G128x1642-2	Complete Manifold	12 Cylinder Dual Pipe
G128x1648-1	Transition Section	for Dual Pipe Manifolds
G128x1657	Manifold Section - Leg 1R & 4R	8 Cylinder - SS Version
G128x1658	Complete Manifold	8 Cylinder - SS Version
G128x1659	Manifold Section - Leg 1L & 4L	8 Cylinder - SS Version
G128x1660	Manifold Section - Leg 2R & 3R	8 Cylinder - SS Version
G128x1661	Manifold Section - Leg 2L & 3L	8 Cylinder - SS Version
G128x1670	Complete Manifold	12 Cylinder Dual Pipe
G128x1730	End Section	



**POWERRAIL**

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## FASTENERS

Complete Line of Fasteners, Including Nuts, Bolts, Washers, Screws, and More



### General Fasteners

#### PowerRail P/N

#### Description

PRD12538-0008	Fastener Kit (For 8004092 Step Light)
E40055467	5/8-18 x 4 1/4 Chamber To Crankcase
E8029567	1 1/4-12 x 2 3/4 Flange Retaining Bolt
E8034693	3/8-24 X 2 1/2 - 7/16 Camshaft Bolt
E8127868	5/8-18 x 1 3/4 Upper Forkrod Basket
E8159340	Bolt Assembly Piston Pin to Connecting Rod
E8242193	1 3/8-6 x 3 Axle Cap Bolt
E8261288	3/4-16 x 11 5/16 Bolt
E8266137	1 1/4-12 x 7 Special Bolt
E8322027	1-8 x 7 1/2 4140 Gear Case Safety Strap T-Bolt
E8460207	5/8-18 x 3 1/4 Assembly Exhaust Chamber Bolt
E9085894	1 3/4-12 X 15 5/8 Crab Bolt
E9338626	1/2-20 Exhaust Manifold Nut
GN170P25024	3/8-16 x 1 1/2 Coupling To Hub Bolt
G41A222526P1	1/2-13 x 2 1/4 Support To Turbo Bolt
G41A232240P1	1 1/2-6 x 5 Gear Case W/Hole In Center
G41B514152G2	1/2-13 x 3 13/16 12 Bolt Crown
G41B520026P2	1 1/4-12 x 8 11/16 Cylinder Hold Down Bolt
G84B522252P1	Banjo Bolt

### Specialty Locomotive Engine Bolts

#### PowerRail P/N

#### Description

E8300183	2 3/4-8 Nut Pinion Retaining D77
E8127868	5/8-18 x 1 3/4 Bolt W/Washer
E8259128	1/2-20 X 2 3/4 Bolt Lower Basket Assembly
E8260114	17/32 ID X 1 Washer Connecting Rod
E8460207	5/8-18 x 3 1/4 Bolt Assembly Chamber Exhaust
E8487883	1/2-20 Locknut Lower Basket Assembly
G733P29024	1/2-13 x 1-1/2 12 Point Flange Bolt
GN22P39080	1-8 x 5 Hex Flange Head Bolt
GN56P16014	10-32 x 7/8 Pan Head Screw
GN733P33020	5/8-11 x 1 1/4 12 Point Flange Bolt
G41A221837P5	Washer Sealing
G41A221875P1	5/8-11 x 1 3/4 Bolt
G41A222526P1	1/2-13 x 2 1/4 Bolt Support To Turbo
G41A231439P15	5/16-18 x 5/8 Bolt Assembly
G41A235717P8	3/8-16 x 1 1/4 Indented Bolt
G41B513140P2	Stud Nozzle Hold Down
G41B513360G2	Screw w/ Button Tappet
G41B514152G2	1/2-13 x 3 13/16 12 Bolt Crown To Skirt

**\*Many More Fasteners Available - Call For More Details\***



**POWERRAIL**

CREATIVE INNOVATIONS ... CONTINUING TRADITION



*"Uniting Innovation, Engineering,  
Manufacturing and Distribution"*



## FILTERS

Complete Line of New Air, Fuel & Oil Filters

We can provide filters in broken case lots or save on Inventory Cost by purchasing kits

### Air Filters

Type		Application
AA-1	41C625459P1	12 x 8 Auxiliary Cabinet Cylindrical Element
AB-10	8363343	7 3/4 x 5 3/8 Salem #824 Coalescer Element
AE-1	41A216508P4	16 x 9 Engine Intake Cylindrical Element
AE-15	9316812	22 x 14 x 6 Pleated Paper Tri-cell Engine Intake Element
AE-25	9093588	36 x 14 x 6 Pleated Paper Tri-cell Engine Intake Element
AE-30	9093587	45 x 14 x 6 Pleated Paper Tri-cell Engine Intake Element
AE-520T	9331452	20 x 20 x 5 Pleated Paper Tri-cell Engine Intake Element
AE-529	9331454	29 x 20 x 5 Pleated Paper Tri-cell Engine Intake Element
AK-2	8402068	12 x 8 Cylindrical Air Compressor Intake
AK-3	8347199	19 1/2 x 5 7/8 x 8 Pamic-style Air Compressor Intake
DP240-0922	8310098	9 x 20 x 2 30/30 Carbody Pleated
DP240-1620	40087224	16 x 20 x 2 30/30 Carbody Pleated
DP240-1625	8367085	16 x 25 x 2 30/30 Carbody Pleated
DP240-2020	40083927	20 x 20 x 2 30/30 Carbody Pleated
DP240-2025	N/A	20 x 25 x 2 30/30 Carbody Pleated
EG-1	8470903	29 x 27 x 6 Standard Filter Baggie
EGP-1	40086945	29 x 27 x 6 Standard Filter Baggie - LONG LIFE 180 Day
EG-2	9522063	19 x 22 x 5 Small Filter Baggie
EGP-2	84C622136P1	19 x 22 x 5 Small Filter Baggie - LONG LIFE 180 Day
FP0922	8310098	9 x 22 x 3 3/4 Fiberglass Carbody Pad
FP0922MOD	8310098MOD	9 x 22 x 3 3/4 Paper Long Life Carbody Pad
FP1625	8380459/40083928	16 x 25 x 3 3/4 Fiberglass Carbody Pad
FP1625MOD	8380459/40083928MOD	16 x 25 x 3 3/4 Paper Long Life Carbody Pad
FP2020	8280211	20 x 20 x 3 3/4 Fiberglass Carbody Pad
FP2020MOD	8280211MOD	20 x 20 x 3 3/4 Paper Long Life Carbody Pad
HH-1734	22109618	17 x 34 x 2 HVAC Condenser Coil
ICE-1010	40041374	9 1/2 x 10 3/4 x 1 1/2 Cabin Electronics
PA2580	9093553	12 3/4 x 23 1/2 Engine Air Intake Cylindrical Element





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Manufacturing and Distribution"*



## Fuel Filters



Type		Application
C-132XF-2	132X1250-2	6 1/2 x 30 Fuel Element Standard-life
CMAx-12	EMD type	6 1/2 x 30 Max. Capacity
CMAx-184H	EMD type	6 1/2 x 30 Ultra-Max. Capacity
CMAx-24	EMD type	6 1/2 x 30 Max. Capacity
FF-1B	8299457	2 1/2 x 7 3/4 Roll-Pak Sock Element
FH-1B	8302891	3.38 x 9.75 Fuel Filter with Spring
FJ-2S	8423132	3 3/4 x 7 Fuel Spin-on
FJ-33S	40052587	3 5/8 x 8 1/2 Fuel Spin-on
FJ-44S	40053463	5 3/8 x 9 1/2 Fuel Spin-on
FL-2W	41B514746P1	2 3/4 x 8 3/4 Suction Strainer W/spring
FL-3W	40061834	2 3/4 x 8 3/4 Suction Strainer W/spring
HA-1P1S	132X1818	9 7/8 x 30 One Stage Fuel Filter
HA-1P2S	9545152	9 7/8 x 30 Two Stage Fuel Filter
HA-2P1SF	40074677	9 7/8 x 30 2-piece One Stage Fuel Filter
HA-2P2SF	40056007	9 7/8 x 30 2-piece Two Stage Fuel Filter
HAF-2P2SF	84D721178P2	9 7/8 x 30 2-piece Two Stage Fuel Filter
HAF-3P2S-45	40106208	9 7/8 x 45 3-piece Two Stage Fuel Filter
HE-2P1SF	EMD/GE type	9 7/8 x 30 2-piece One Stage Fuel Filter
HMAx-2P1S	EMD/GE type	9 7/8 x 30 2-piece One Stage Fuel Filter Extended-Life
HMAx-2P2SF	EMD/GE type	9 7/8 x 30 2-piece Two Stage Fuel Filter Extended-Life
S-2	8275432	6 x 30 Roll-Pak Sock Element
S-6	8281232	6 x 28 1/2 Flow-thru with Single Seal Sock Element

Type		Application
BT267	9311037	4 x 6 Air Compressor Spin-on
C-12/C-24	8345482	6 1/2 x 30 Long-life Lube Oil
C-52	2X4223	6 1/2 x 30 Long-life
CMAx-12	EMD type	6 1/2 x 30 Long Life Lube Oil Filter
CMAx-184H	EMD type	6 1/2 x 30 Long Life Lube Oil Filter Ultra Cap.
CMAx-24	EMD type	6 1/2 x 30 Max. Capacity
CMAx-52	GE type	6 1/2 x 30 Max. Capacity
FG-3W	9324489	3 x 5 1/4 Lube Oil Suction Strainer
TL-2C	8322064	4 1/2 x 20 Turbo Standard-life Element
TL-2FSO	40035123	5 1/2 x 12 Turbo Spin-on Long-life
TL-3C	8340000	3 x 7 1/4 Soak Back Spin-On Standard-life
TL-3FSO	40058635	3 x 7 1/4 Soak Back Spin-On Long-life



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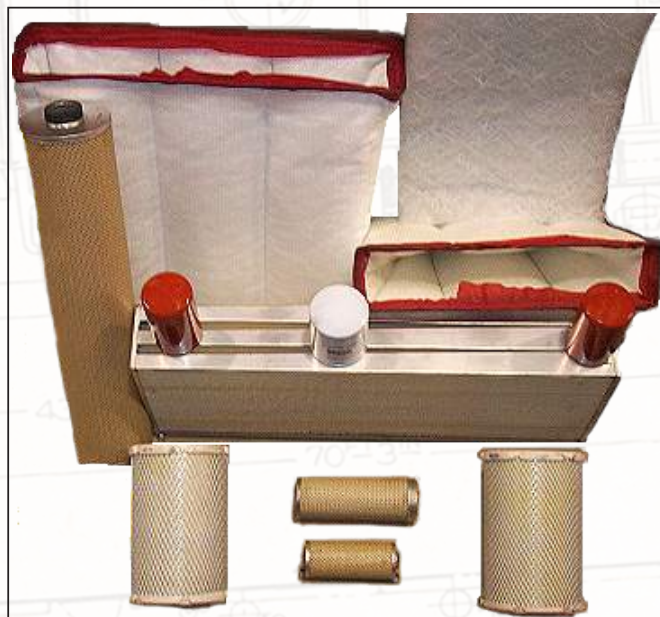


## **PowerRail Flexi-Filter Generic Kits**

PowerRail, Inc. provides a true cost savings by offering Customs Kits dedicated to the Railroad's Road Units.

PowerKits will be custom assembled and tagged by the customers Road Unit number, making ease of ordering in the future.

In addition to Filters Kits, we also offer custom kits for Light Bulbs, Carbon Brushes, Wiper Blades, Fuses, and more.



Filter Kit PRDX7005

### **GP40 FILTER CHANGE OUT KIT**

Qty	Type	Application
8	8345482	C-12/C-24 Lube Filter
1	8275432	S-2 Primary Fuel Filter
2	8423132	FJ-2S Secondary Fuel Filter Spin-on
1	8322064	TL-2C Turbo -Paper Cartridge
1	8340000	TL-3C Soak Back
1	* 9330535	AK-2 Air Compressor Intake Filter
1	* 8347199	AK-3 Air Compressor Intake Filter
1	9311037	BT-267 Air Compressor Lube Filter
2	8343161	Gasket Fuel Strainer/Soak Back
1	8358905	Gasket Primary Fuel
1	8268756	Gasket Lube Oil
1	8288955	Gasket Turbo
* Note - May need EG-1 or EG-2 Baggies Intake Filters		

### **GP40 FILTER CHANGE OUT KIT**

Qty	Type	Application
7	8345482	C-12/C-24 Lube Filter
1	8275432	S-2 Primary Fuel Filter
2	8423132	FJ-2S Secondary Fuel Filter Spin-on
1	8322064	TL-2C Turbo -Paper Cartridge
1	8340000	TL-3C Soak Back
1	* 9330535	AK-2 Air Compressor Intake Filter
1	* 8347199	AK-3 Air Compressor Intake Filter
1	9311037	BT-267 Air Compressor lube Filter
2	8343161	Gasket Fuel Strainer/Soak Back
1	8358905	Gasket Primary Fuel
1	8288955	Gasket Turbo

### **EMD SW 1500 FILTER CHANGE OUT KIT**

Qty	Type	Application
4	8345482	C-12/C-24 Lube Filter
2	8275432	S-2 Primary Fuel Filter
1	* 9330535	AK-2 Air Compressor Intake Filter
1	* 8347199	AK-3 Air Compressor Intake Filter
1	9311037	BT-267 Air Compressor Lube Filter
1	8343161	Gasket Fuel Strainer

### **EMD GP38 FILTER CHANGE OUT KIT**

Qty	Type	Application
7	8345482	C-12/C-24 Lube Filter
3	8470903	EG-1 Baggie Intake Filters
1	8275432	S-2 Primary Fuel Filter
2	8423132	FJ-2S Secondary Fuel Filter
1	* 9330535	AK-2 Air Compressor Intake Filter
1	* 8347199	AK-3 Air Compressor Intake Filter
1	9311037	BT-267 Air Compressor Lube Filter
1	9324489	FG-3W Fuel Strainer
1	8358905	Gasket Primary Fuel
1	8343161	Gasket Fuel Strainer

**Note: The Above Tables Reflect a Sampling Only.  
Custom Kits will be made per YOUR specs.**



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## FILTERS - AIR LINE

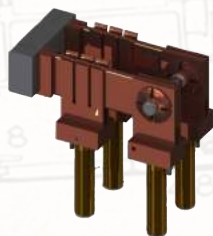
Full Line of Filters for  
Coalescing and Air Dryers



<b>PowerRail P/N</b>	<b>Alt Part#</b>	<b>Description</b>
E10565991	75-018	Repair Kit
E8363343	AB-10/160-004	Salem 824 Filter
E40086698	125-132	Salem 824 Filter
E40015249	5237-30-0	Salem 818 Filter
E40028168	5664-013	Filter Element for 975-075
P40696	P40696	Filter Coalescer
P32208	P32208	Filter Final
E40054494	P40968	Filter Element
G5X1109	PM5015	Main Element Kit for PM548
GP31309	PM31309	Aux Filter Kit

## FUSE HOLDERS

Complete Line of Fuse Holders



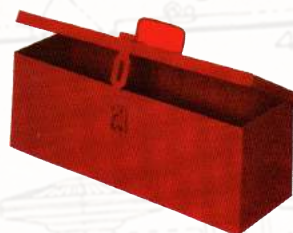
<b>PowerRail P/N</b>	<b>Description</b>
E8280183	31-60 Amp 250 Volt
E8029220	60-100 Amp 250 Volt
E8280184	0-30 Amp 250 Volts
E8280180	61-100 Amp 3/8"-16 x 1 3/4"
E8280181	101-200 Amp 1/2"-13 X 2-1/4"
E8280182	201-400 Amp 3/4"-16 X 3-1/4"
E8280183	31-60 Amp 5/16"-18 x 1 3/4"
E8280185	Switch Main Battery Knife Style



## FUSES

Complete Line of Electrical Fuses  
for demanding Applications

<b>PowerRail P/N</b>	<b>Amp</b>	<b>Application</b>
E8004544	150A	Aux. Generator
E8004545	100A	Battery Charging
E8004546	60A	Alternator Field
E8004570	80A	Battery Field
E8004548	30A	Generator Field
E8060582	400A	Starter Motor
E8042739	400A	Fuse Link Starter
E8127051	150A	Boiler
E8152419	60A	Battery Field
E8346478	800A	AR10
E8407729	425A	AR12
E8414678	800A	Starter Motor
E8439559	200A	Cooling Fan
E9330514	450A	AR11 Transition
E9330515	450A	AR11 Transition
E40028900	550A	AR11
E40084060	500A	SD70 Air Compressor



Fusee Holder P50026-5



Fusee Holder P50026-16



Fusee Holder P50026-23



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**PowerSeal Solutions**  
A PowerRail Quality Company

## GASKETS, SEALS AND RUBBER PRODUCTS

Complete Line of New Generation Gaskets, Seals and O-Rings

**PowerSeal Solutions** offers a complete line of gaskets and seals including, our PS-1 Line, our PS-2 C-Swell™ Line for more demanding applications, and our newest addition...**The B-SureSeal™**.

### Marman Seals



PowerSeal B-SureSeal™ Marman Seals:

- Made with pure FKM and Viton® A-type material - NO fillers
- Injection molded for pure and high-precision fit with true reliability
- Superior performance through operating temperatures from -20°F to +400°F
- Resistance to oil, fuel, and additives
- Remains flexible in service and won't "set" like standard seals



**Pipe is always measured by the Outside Diameter (O.D.).  
Because a Marman Seal sits on the outside of the pipe, the I.D. of the  
Seal will be approximately the same size as the O.D. of the pipe.**

#### PowerRail P/N

#### Description

E8479542	Marman 1/2 Inch
E8479543	Marman 3/4 Inch
E8479544	Marman 1 Inch
E8479598	Marman 1 1/4 In
E8479599	Marman 1 1/2 In
E8479600	Marman 2 Inch
E8479601	Marman 2 1/2 In
E8479602	Marman 3 Inch
E8479603	Marman 3 1/2 In
E8479604	Marman 4 Inch
E8406231	Marman 6 Inch

Per ASTM D412-16 and D2240-15 testing, the PowerSeal B-SureSeal™ Marman Seals have greater tensile strength, superior elongation characteristics, and half of the compression set when compared to other seals on the market.

This independent laboratory testing has shown the PowerSeal B-SureSeal™ Marman Seals to have improved physical properties, which directly translates into improved performance.

COUPLING ASSEMBLY		COMPONENT REFERENCE	
Pipe Outside Diameter	Assembled Coupling Length	Complete Assembly (PowerRail P/N)	Seal (PowerRail P/N)
0.5"	4.50"	E8476711	E8479542
0.75"	2.50"	E8479674	E8479697
0.75"	4.50"	E8470605	E8479606
1.00"	2.875"	E8470340	E8479544
1.00"	6.00"	E8476174	E8479544
1.00"	7.50"	E8472849	E8479544
2.00"	4.00"	E8474757	E8479600
2.00"	7.50"	E8479676	E8479600
2.50"	4.00"	E8392458	E8479538
2.50"	6.50"	E8472617	E8479538
2.50"	12.50"	E8472616	E8479538
2.50"	23.00"	E8275374	E8479601
2.50"	26.00"	E8284779	E8479601
2.50"	4.00"	E9516671	E8479601
3.00"	6.50"	E8471160	E8479539
3.00"	12.50"	E8468179	E8479539
3.00"	90°	E8455470	E8479539
4.00"	7.50"	E8252895	E8479541
4.00"	6.50"	E8474741	E8479541
4.00"	12.50"	E8470341	E8479541
5.00"	6.50"	E9559099	E40068473



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# PowerSeal Solutions

A PowerRail Quality Company

## GASKETS, SEALS AND RUBBER PRODUCTS

### Dresser Seals



<b>PowerRail P/N</b>	<b>Description</b>
G499A912AEP2	Dresser 1/2"
G499A912AEP3	Dresser 3/4"
G499A912AEP4	Dresser 1"
G499A912AEP5	Dresser 1 1/4"
G499A912AEP6	Dresser 1 1/2"
G499A912AEP7	Dresser 2"
G499A912AEP8	Dresser 2 1/2"
G499A912AEP9	Dresser 3"
G499A912AEP10	Dresser 3 1/2"
G499A912AEP11	Dresser 4"
G499A912AEP13	Dresser 6"

### Gasket Fuel Bowl Site Glass



Made of pure FKM and Viton® A-type material - NO fillers

- Can Run At 400°F Constant
- Easy To Install, Conforms To Fuel Sight Bowl
- Long Life Cycle Without Degrading

Note: We Also Offer E8361381 Glass Bowl and E8104667 Clevis

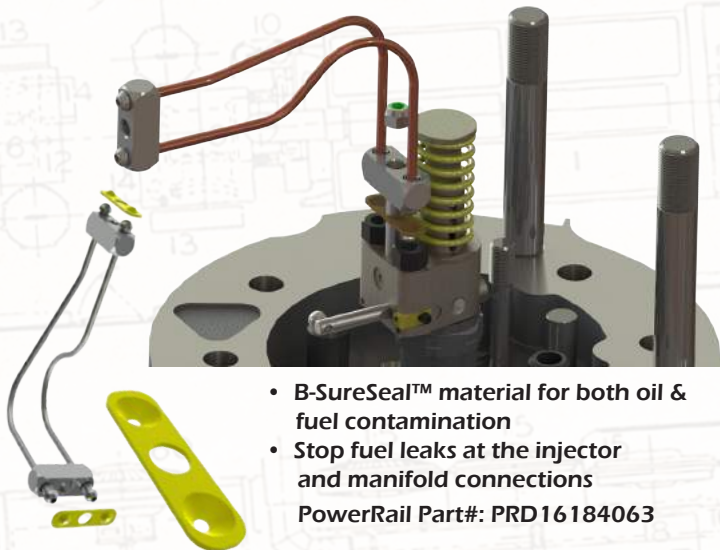
### Head Seat Ring Technology



**PowerRail Part #:**  
**E9581924PRD**

- Enhanced Proprietary Viton® Compound
- Enhanced /Redesigned VPS Viton® profile for Ultimate Sealing
- Field Reports of reduced and/or elimination of "Engine Souping"

### B-SureSeal™ - Fuel Line Gasket



- B-SureSeal™ material for both oil & fuel contamination
- Stop fuel leaks at the injector and manifold connections

PowerRail Part#: PRD16184063

### Head to Liner Gasket

- Enhanced Grommet Design - Will NOT Fall Out
- Teflon Silicone Hi Heat B-SureSeal™ Integral Grommet Design Utilizing Glass-Filled PTFE
- 410 Stainless for Improved Cycling Performance (Non Copper Plated to Eliminate Oil Contamination)
- Improved Compression Set Performance
- Improved Operating Temperature Range -50°F TO +460°F



### Water Elbow & Seal

Part# E40110618 Seal for E8414444 Elbow

- Stops Water Leaks Associated with Old Style O Rings
- YellowSeal™ Material for Both Oil & Fuel Contamination
- Class 1 Approved



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## GASKETS & SEALS

### Enhanced Exhaust Stack Gasket

PowerRail P/N E40055466



- Class I Approved
- 21 Gauge Stainless Steel "Formed Bead Design"
- Opposing "Formed Beads" act as a spring mechanism in heavy thermal cycling applications

• High Temperature Graphite Sealing Element is designed to fill and seal surface imperfections commonly found on manifold and engine block surfaces

• Enhanced and Improved design will not be "crushed or beat-out" due to heavy vibration or harmonics, and resists unloading and bolt torque loss, as is common with the standard double jacketed design

## GAUGES - AIR FLOW INDICATORS FUEL AND AMMETERS

Complete Line of Air Flow Indicators,  
Fuel Gauges, & Ammeters



### PowerRail P/N

### Description

E10601196	Air Flow Indicator
E40017162	Air Flow Indicator
E8195741	Air Flow Indicator
E8387634	Air Flow Indicator, 60-160 lbs.
G84B104054P1	Air Flow Indicator
E10590743	Ammeter Load Indicator SD60
E40150894	Ammeter, Control Stand, SD40-E
E8214188	Ammeter TM 0-1500 AMPS
E8380058	Ammeter Traction Motor 0-1500AMP
E8438032	Ammeter Load Gauge 0-1500AMP
E8402426	Ammeter Traction Motor Load
E9573315	Ammeter Load Indicator
E10599378	Complex Gauge Assembly with AFM Indicator 4 1/2"
E8315266	Compressor Gauge, Float Type

## GAUGES

Complete Line of Dry and Liquid Filled Gauges



PowerRail P/N	Description
E40031338	2 1/2" 0-100 PSI Dry Gauge Oil
E8340547	2 1/2" 0-200 PSI Dry Gauge Air
E40018397	3 1/2" 0-160 PSI Dry Gauge Oil
E40018396	3 1/2" 0-200 PSI Dry Gauge Air
E8015552	3 1/2" 0-160 PSI Dry Gauge Air
E8032122	3 1/2" 0-100 PSI Dry Gauge Fuel Oil
E8032123	3 1/2" 0-100 PSI Dry Gauge Oil
E8037304	3 1/2" 0-160 PSI Dry Duplex Gauge Air
E8047964	3 1/2" 0-200 PSI Dry Duplex Gauge Air
E8231593	3 1/2" 0-200 PSI Dry Gauge Oil
E8231594	3 1/2" 0-160 PSI Dry Gauge Oil
E8380610	3 1/2" 0-200 PSI Dry Duplex Gauge Air
E8387352	3 1/2" 0-160 PSI Dry Duplex Gauge Air
G41A304641ABP1	4" 0-200 PSI Liquid Gauge Oil
G41B536099P3	4" 0-100 PSI Liquid Gauge Fuel
E8459294	4 1/2" 0-160 PSI Duplex Dry Gauge Air
E8481962	4 1/2" 0-160 PSI Dry Duplex Gauge
E8484326	3 - 4 1/2" 0-160 PSI Duplex Dry Gauge
E9080722	2 - 4 1/2" 0-160 PSI Dry Duplex Gauge
E9329370	4 1/2" 0-160 PSI Dry Duplex Gauge
E9540228	4 1/2" 0-160 PSI Duplex Dry Gauge Air



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## GEARS

Complete Line of New Pinion Gears, Bull Gears & Traction Gears,  
as well as a complete line of High Quality Engine Gears



S. No.	Bull Gear	PowerRail P/N	S. No.	Pinion	PowerRail P/N
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### Traction Gears & Pinions

1	Gear - 65 tooth	E8178812	2	PINION Gear - 12 tooth D77	E8452310
3	Gear - 63 tooth	E8402408	4	PINION Gear - 14 tooth D77	E9556207
5	Gear - 62 tooth	E40049185 / E8109579	6	PINION Gear - 15 tooth D77	E40006705
7	Gear - 61 tooth	E40049661 / E8184341	8	PINION Gear - 16 tooth D77	E9556208
9	Gear - 60 tooth	E40049660 / E8179295	10	PINION Gear - 17 tooth D77	E9556209
11	Gear - 59 tooth	E8184333	12	PINION Gear - 18 tooth D77	E9556210
13	Gear - 58 tooth	E40049658 / E8184378	14	PINION Gear - 19 tooth D77	E9556211
15	Gear - 57 tooth	E8184325 / E40049657	16	PINION Gear - 20 tooth D77	E9556212
17	Gear - 56 tooth	E8184396	18	PINION Gear - 21 tooth D77	E9556213
19	Gear - 55 tooth	E8184342	20	PINION Gear - 22 tooth D77	E9556214
21	Gear - 52 tooth	E8184332	22	PINION Gear - 25 tooth D77	E9556215
23	Gear - 63 tooth	E40051136 / E40051133	24	PINION Gear - 14 tooth D31	E8179135
25	Gear - 62 tooth	E40051132	26	PINION Gear - 15 tooth D31	E8459295
27	Gear - 60 tooth		28	PINION Gear - 17 tooth D31	E8206504
29	Gear - 58 tooth	E40051126	30	PINION Gear - 15 tooth D29	E8458508
31	Gear - 57 tooth	E40051125	32	PINION Gear - 16 tooth D29	E8341961
33	Gear - 70 tooth	E40012160	34	PINION Gear - 17 tooth D87	E40006706
35	Gear - 69 tooth	E40049648	36	PINION Gear - 18 tooth D87	E9332201
37	Gear - 67 tooth	E40049648	39	PINION Gear - 19 tooth D87	E9332202
40	Gear - 66 tooth	E40049647	41	PINION Gear - 20 tooth D87	E9332203

### Traction Gear & Pinions

1	Gear - 90 tooth	G41C637598P1	2	PINION 21 Tooth	G41C637595P1
3	Gear - 91 tooth	G8837760 / G41B530121P1	4	PINION 20 Tooth	G84C614969P1
5	Gear - 92 tooth	G41C632784P2 / G8837724	6	PINION 19 Tooth	G41C632785P2
7	Gear - 93 tooth	G41C636682P1 / G88377526P1	8	PINION 18 Tooth	G41C635677P2 / G41C637903P1
9	Gear - 94 tooth	G41C637211P1 / G8837727P1	10	PINION 17 Tooth	G41C637180P1
1	Gear - 65 tooth	G41C635820P1	2	PINION 18 Tooth	G41C635796P1
3	Gear - 74 tooth	G41C632494P1	4	PINION 18 Tooth	G41C637399P1
5	Gear - 77 tooth	G41C632350P1	6	PINION 26 Tooth	G41C632349P1
7	Gear - 83 tooth	G41C636806P1	8	PINION 20 Tooth	G41C636447P6
9	Gear - 87 tooth	G41D735826P2	10	PINION 16 Tooth	G41D735825P1
11	Gear - 90 tooth	G41C632381P1	12	PINION 17 Tooth	G41C632382P1
13	Gear - 83 tooth	G41C637055P6	14	PINION 20 Tooth	G84C62083492

### Alt. Gears & Pinions

1	Drive Gear 102T	G41C637055P6	2	PINION 43 Tooth	G41C635625P1
3	Drive Gear 102T	G41C637055P6	4	PINION 43 Tooth	G41C635800P1
5	Drive Gear 102T	G41C637055P6	6	PINION 43 Tooth	G41C632663P1

### Engine Gears

1	Drive Gear 58T	E8483944	2	Drive Gear 79T	E8069019
3	Drive Gear 58T	E8483945	4	Drive Gear 79T	E8069014
5	Drive Gear 79T	E8360843	6	Drive Gear 265T	E8416930
7	Drive Gear 113T	E8360839 / E8141909			



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## GENERATORS - MAIN AND AUXILIARY

Complete Line of New & **True Blue™** Main & Auxiliary Generators and Exciters

<b>PowerRail P/N</b>	<b>Description</b>	<b>New</b>	<b>UX</b>
E8405875	10Kw Aux Gen	Yes	Yes
E8405875MOD	14Kw Aux Gen	Yes	Yes
E8122750	18Kw DC Aux Gen	Yes	Yes
E4979844	18Kw AC Aux Gen	Yes	Yes
E9551383	18Kw AC Aux Gen	Yes	Yes
E9533149	18Kw AC Aux Gen	Yes	Yes
E3195473	24Kw AC Aux Gen	Yes	Yes
D12	Main Generator	No	Yes
D15	Main Generator	No	Yes
D22	Main Generator	No	Yes
D32B & D32P	Main Generator	No	Yes
D32E & D32E1	Main Generator	No	Yes
AR10	Main Alternator	No	Yes
AR11	Main Alternator	No	Yes
AR15 - AR17	Main Alternator	No	Yes
AR20	Main Alternator	No	Yes



**\*NEW AUX GENs  
IN STOCK!**



<b>PowerRail P/N</b>	<b>Description</b>	<b>New</b>	<b>UX</b>
GY27L2	Auxiliary Generator	No	Yes
GY27M2	Auxiliary Generator	No	Yes
581	Auxiliary Generator	No	Yes
586	Auxiliary Generator	No	Yes
598	Auxiliary Generator	No	Yes
GTA9	Main Alternator	No	Yes
GTA11	Main Alternator	No	Yes
GTA15	Main Alternator	No	Yes
GTA16	Main Alternator	No	Yes

Full Line of Blower Wheels and  
Housing Assemblies also Available



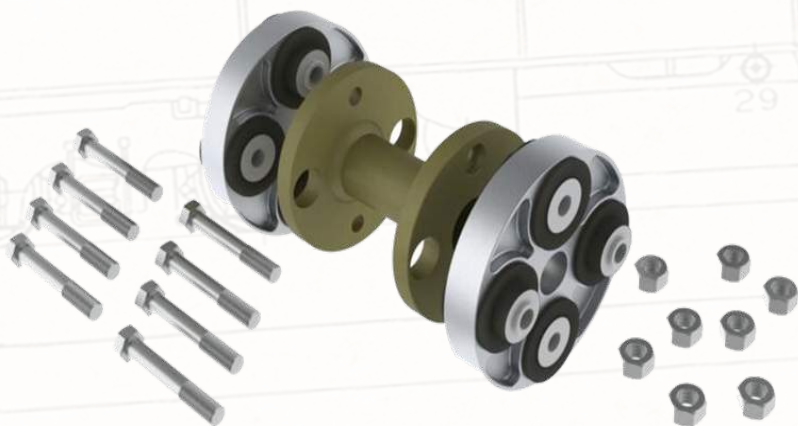


**"Uniting Innovation, Engineering,  
Manufacturing and Distribution"**



## GENERATOR DRIVE SHAFTS

E8184471 - 5 7/8" OAL  
E8476944 - 15 5/8" OAL



E8195996  
Coupling



E8234958 Compression  
Bushing or 16185106  
Generator Bushing



## ADJUSTABLE AUXILIARY GENERATOR DRIVE SHAFT

Now offering a simple solution for reducing inventory by utilizing an Adjustable Auxiliary Generator Drive Shaft.

Our adjustable shaft offers the same flange mounting with adjustments of 9.34" to 11.10"

Part # PRD16186416

**Replace FIVE different drive shafts with just ONE.**

E8227020 Drive Shaft 9.344"  
E9509579 Drive Shaft 9.625"  
E8253884 Drive Shaft 9.875"  
10604516 Drive Shaft 9.969"  
E8227021 Drive Shaft 11.094"





**"Uniting Innovation, Engineering,  
Manufacturing and Distribution"**



## HANDRAIL - CARBODY

Complete Line of New Handrails and  
Related Deck Products



## HEAT SHIELDS

Complete Line Of Heat Shields



### PowerRail P/N

E40089234  
E40089235  
E40089236  
E40089237  
E40089238  
E40109698  
E8351251  
E8351254  
E8358827

### Application

SD70 Right Rear  
SD70 Left Rear  
SD70 Right and Left Front  
SD70 Right and Left Front  
SD70 Left Front and Right Rear  
SD70 Z Type  
Intermediate Rear Left Hand  
SD70 Right and Left Front  
Rear Left Hand

## HEATERS

Complete Line of Heaters including Free Standing, Wall Mounted and Sidewall.

<u>PowerRail P/N</u>	<u>Description</u>	<u>Comments</u>
P5006B Series	Free Standing	3000W - 3750W - 4000W
E40012336	Free Standing Stock Model	3000 Watt with Top Defrost With Sidewall Circuit Panel
E40001549	Free Standing Stock Model	3000 Watt with Top Defrost NO Circuit Panel
PM5032	Wall Mounted	3000W - 3750W - 4000W
PM5002	Sidewall	Dual 660W & 1320W
PM5002-2	Sidewall Stock Model	Dual 750W & 1500W
PM5029	Control Switch	Dual Per Above
P24477	Circuit Breaker	65A 3 Pole
P21366	Heater Motor	5/16" Dia. Single Shaft
P21134	Heater Motor	5/8" Dia. Single Shaft
P20605-1	Heater Motor	5/16" Dia. Dual Shaft
P21159	Heater Motor	5/16" Dia. Dual Shaft
P24442-1	Heater Brush	2 per Set
P31118	Junction Box	Wall Heater
P31005	3 Position Switch	Junction Box



**SEE PAGE 68 for New  
High-Efficiency Heaters**



**POWERRAIL**

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Manufacturing and Distribution"*



## Provident H1™ High Efficiency Heater

**REDUCED POWER CONSUMPTION = FUEL SAVINGS**  
PowerRail "Provident Heat1™"



With the latest in advanced ceramic material, a unique modular design, and lightweight composites, PowerRail offers the Provident Heat1™ line of Cab Heaters. This Positive Temperature Coefficient (PTC) heater offers true reliability and performance while using less power. The Provident Heat1™ line consist of both Flush Mounted and Floor Mounted, with and without Defrost.

### **Provident Heat1™ Advantages:**

- Advanced ceramic material, enabling safe, powerful, and energy efficient heat transfer
- Energy efficient heating system and design
- PCB designed and controlled electronics & management system
- Up to 50% reduction in energy usage
- Up to 50% smaller in depth - adds floor space to Cab
- Modular design for fast access and easy repair of all components
- Solid state controls for ease of operation
- UL Listed - AAR Approved Quality



Solid State UL Listed Controls



True Blue™ Modular Design



Floor Mount - with or  
Without Defrost



Flush Mount





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Manufacturing and Distribution"**



## HOSE - AIR

New line of AAR Air Hose and other related  
Air Brake components



**Actuating Application & Release 1/2" Male NPT  
AAR M-618 LS4 Gladhand**



<u>PowerRail P/N</u>	<u>Overall Length</u>	<u>Hose Size</u>
HAL5880	34"	3/4 (1/2)
HAL5217	36"	3/4 (1/2)

**Note:** Above are Common Hoses - We offer a full Line  
from 25" to 36" OAL

**Main Reservoir 1" Male NPT  
AAR M-618 LS4 Gladhand**



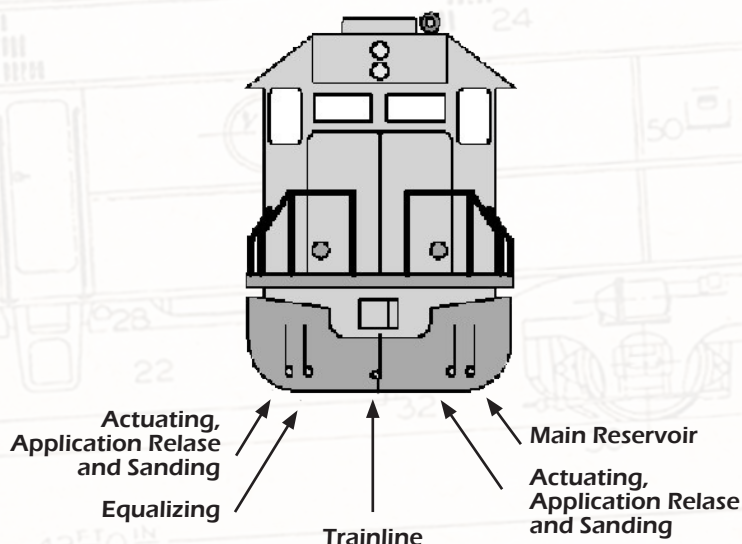
<u>PowerRail P/N</u>	<u>Overall Length</u>	<u>Hose Size</u>
MRL5064	34"	1 1/8
MRL5209	35 1/2"	1 1/8
MRL5640	36"	1 1/8

**Note:** Above are Common Hoses - We offer a full Line  
from 25" to 43"

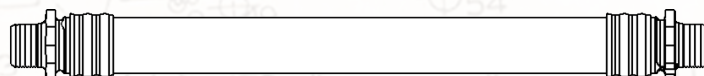
**Train Line 1 3/8" Hose 1 1/4" Male NPT  
AAR M-601 FP5 Gladhand**



<u>PowerRail P/N</u>	<u>Overall Length</u>	<u>Hose Size</u>
HFR12422	22"	1 3/8
HFR12433	33"	1 3/8



**1-1/4" MALE PIPE THREAD X 1-1/4"  
MALE PIPE THREAD - AAR M-601**



<u>PowerRail P/N</u>	<u>Overall Length</u>	<u>Hose Size</u>
N777733	26-1/8"	1 1/8
N779362	27"	1 1/8
N777583	28 1/8"	1 1/8
N777734	37 1/8"	1 1/8
N777866	59 1/8"	1 1/8

## Gaskets - Gladhand & Flange Style Hoses



<u>PowerRail P/N</u>	<u>OEM Ref#</u>	<u>Comment</u>
W563952	739882	FS5 Gasket
N73103	Car Hose	1/2" Flange
N731034	Car Hose	3/4" Flange
N731056	Car Hose	1" Flange
N731061	Car Hose	1 1/4" Flange



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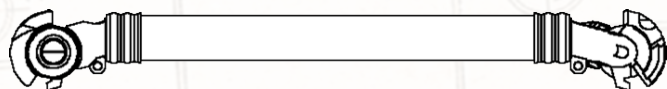


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## DUMMY HOSES

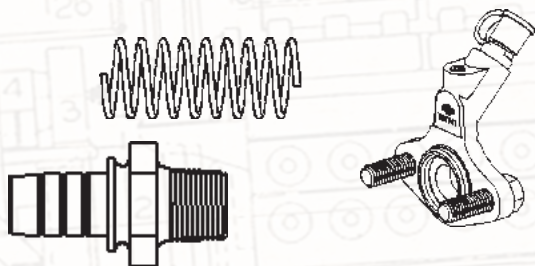
Complete Line of Dummy Hoses & Flanges



PowerRail P/N	Overall Length	Hose Size
N777356	12-5/8"	1 1/8
N777355	15 1/8"	1 1/8
N777357	16 5/8"	1 1/8
N777358	17 5/8"	1 1/8
N777889	27 5/8"	1 1/8



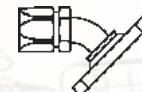
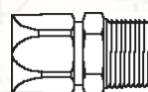
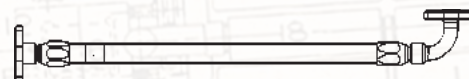
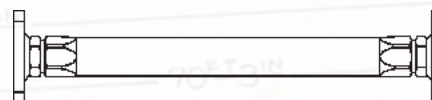
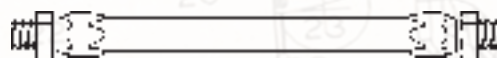
PowerRail P/N	Type	Vent Holes	Chain Length
N739823	F	Yes	No
N703124	F	Yes	7 1/2"
N77/8839	F	Yes	18"
N739709	F	No	No
N700303	F	No	7 1/2"
N781168	F	No	10"
N780690	F	No	12"
N739824	H	Yes	No
N703123	H	Yes	7 1/2"
N756979	H	Yes	14"
N739822	H	Yes	33 1/2"
N739710	H	No	No
N700304	H	No	7 1/2"
N739825	L&E	Yes	No
N703125	L&E	Yes	7 1/2"
N703406	L&E	Yes	16"



## HOSES - FREIGHT CAR

Complete Line of Freight Car Hose

Broad Line of Freight Car Hoses AAR M-601 & M618  
Approved. Please call us for more information  
on replacement Air Hose Parts



- Male to Male
- Male to Female
- Female to Female
- Flange
- Wire Re-Enforced
- Swivel Fittings
- Coil Guards
- Full Line of Adaptors

## HOSE STRAP

AAR 4006 High Strength Synthetic Strap



PowerRail Part# NY778117



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## HOSE

Full Line of Engine Related Fuel,  
Oil and Air Hoses



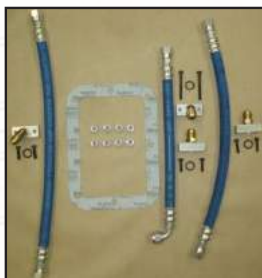
### PowerRail P/N

### Application

E9320120	Detector to Water Pump
E9320121	Detector to Water Pump
E9320122	Detector to Water Crankcase
E9319341	Governor Oil Drain
E9319342	Lube Oil
E8155981	Wiper
G140X2954	Fuel
G140X1553	Turbo Oil Feed
G140X2935	Oil Drain

## HOSE - CUSTOM KITS

Full Line of Special Kits that can be customized  
to any requirement



## HOSE - SAND

"Safe Sand" Gold Series

New Generation Utilizing Cloth Weave Technology  
Eliminating Wire Related Injuries



### PowerRail P/N

### Description

### Hose Size

E8328950	50 Ft. Roll Sand Hose	1 5/16
E9097530	25 Ft. Roll Sand Hose	1 5/16

See Page 84 for All Sand Related Items

## HOUSINGS

Complete Line of Ditch, Headlight, Step Light ,  
MU Housings and Receptacles.

### PowerRail P/N

### Application

E8650814	Ditch Light Housing	
E40043668	Ditch Light	
G41B549606P1	Ditch Light	
E8235852	Headlight Vert. & Horiz. Mount	
E8332339	Headlight Vertical Mount With shield	
E40046500	Headlight Dual SD70	
E8382662	Contact MU	
E8079302	Cover - MU Receptacle	
E9572733	MU Dummy Receptacle	
G84A201176P3	MU Dummy Receptacle with back plate	
E8242444	MU Receptacle Complete Assembly - 27 Pin	
E8004092	Step Light Assembly	
G41A200358P1	Step Light Assembly	
E10590984	Step Light Assembly	
E10605432	FRA Red Lens Light Assembly	
G41A205337ABP2	Light Assembly Clear Lens	
E40016750	Brake Light Indicator	
8351700	MU Receptacle - No Contact Pins	

## Universal Ditch Light Housing

PowerRail PRD16184911

- E8650814 / E40043668 - 2 Position Door Latch Flush Mount
- E40052369 / E40069142 - 4 Position Door Latch with Flush Mount

Benefits:

- Dual Mount - Flush or Conduit from Bottom (2) 1/4" NPT Mounts
- High Temperature Silicone E10610987 Gasket Included
- (4) Four Position Door Latch
- Reduction in Inventory
- High Quality Casting



Also offering Ditch Light Housing  
G41B549606P1, G41B549606P3, and  
Ditch Light Assembly E6911151



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## INJECTORS

Complete line of New and Remanufactured Fuel Injectors

### PowerRail P/N

E9081163  
E8478048  
E9081164  
E8478045  
E8478046  
E8478053  
E8478055  
E9561950  
G123X1110-2  
G132X1710  
G132X1645  
G132X1715  
G132X1535

### Comment

567B/567BC  
567C  
567D  
645E  
645E3  
645E3B  
645E3B Eco  
645F3B  
7FDL-Style  
Bryce Single Pump  
Bryce Double Pump  
Bendix Single Pump  
Bendix Double Pump



Full Line of Injector Parts

### ECOTIP "Green Tag" Injectors

#### OEM Ref #

E8478049  
E8478045  
E8478046  
E8478055

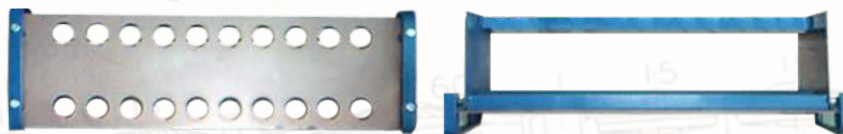
#### ECOTIP Ref #

40083527/40078996  
40083524/40078993  
40083525/40078994  
40083533/40079002

#### Comment

567 A,B,BC,C,E Fuel Efficient Tip  
645E Roots Fuel Efficient Tip With Calibration Slide  
111 Fuel Injector 12, 16, 20 Cylinder Low Smoke  
111 Fuel Injector Fits 645E3B

Green Tag Injectors Offer Very Precise Beginning and Ending Of Fuel Injection. This Results In Fuel Savings At Full Load and On Medium Duty Cycle. Reliability and Durability Is Also Increased Due To Lower Peak Cylinder Combustion.



E8431626 Holding Rack For Injectors



### "Black Tag" Extended Idle "Switcher" Injectors

#### Black Tag P/N

E4991632  
E4991635  
E4991629

#### Engine Application

567B, BC, C  
567C  
645E, 567C

#### Body Style

No-line  
1 Narrow groove  
1 Narrow groove

Black Tag Injectors Are Designed To Overcome Specific Challenges Under Various Applications. The Benefits Include Reduced Emissions, NOx and Smoke With Minimal To No Fuel Penalty In Certain Applications. The Injectors Also Help To Reduce "Souping" During Extended Idle Situations.



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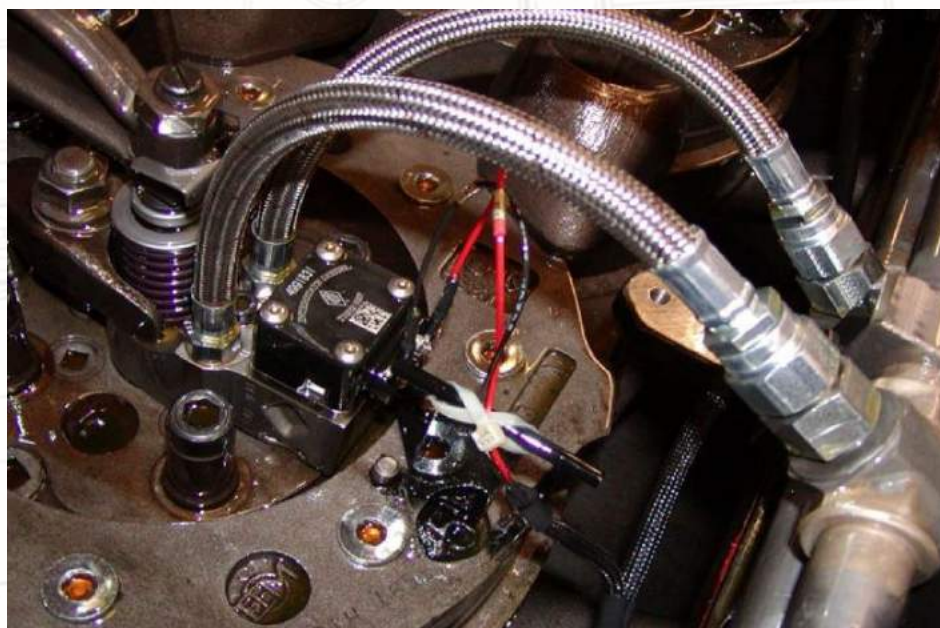


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## **INJECTOR CONVERSIONS**

Complete line of Conversions and Replacement Injectors



*"ECU" Engine Management System With Proprietary Interstate Diesel Software*

**Complete line of MFI to EFI Class 1 style Conversions and EFI Replacement Injectors.**

Upgrade your Mechanically Fuel Injected EMD or GE Engine to a state of the art Electronically Fuel Injected Engine. If your goal is to save fuel, our Engine Management Kit (EMS) has proven to reduce fuel consumption over 3%! If your goal is to reach a higher EPA Tier level, our EMS kit has transformed a Tier 0 engine into Tier 2 and added performance capabilities not available with mechanical fuel injection.

- Convert Mechanical Fuel Injection to Electronic Fuel Injection
- Lower fuel cost, increased performance
- Manufacture NEW electronic unit injectors
- EMD 710 and 645 engines and GE 7FDL
- No EUI cores needed to convert
- Replace mechanical / hydraulic governor with ECM
- Use ECM to control engine
- Install monitor in cab
- Achieve higher emission standards





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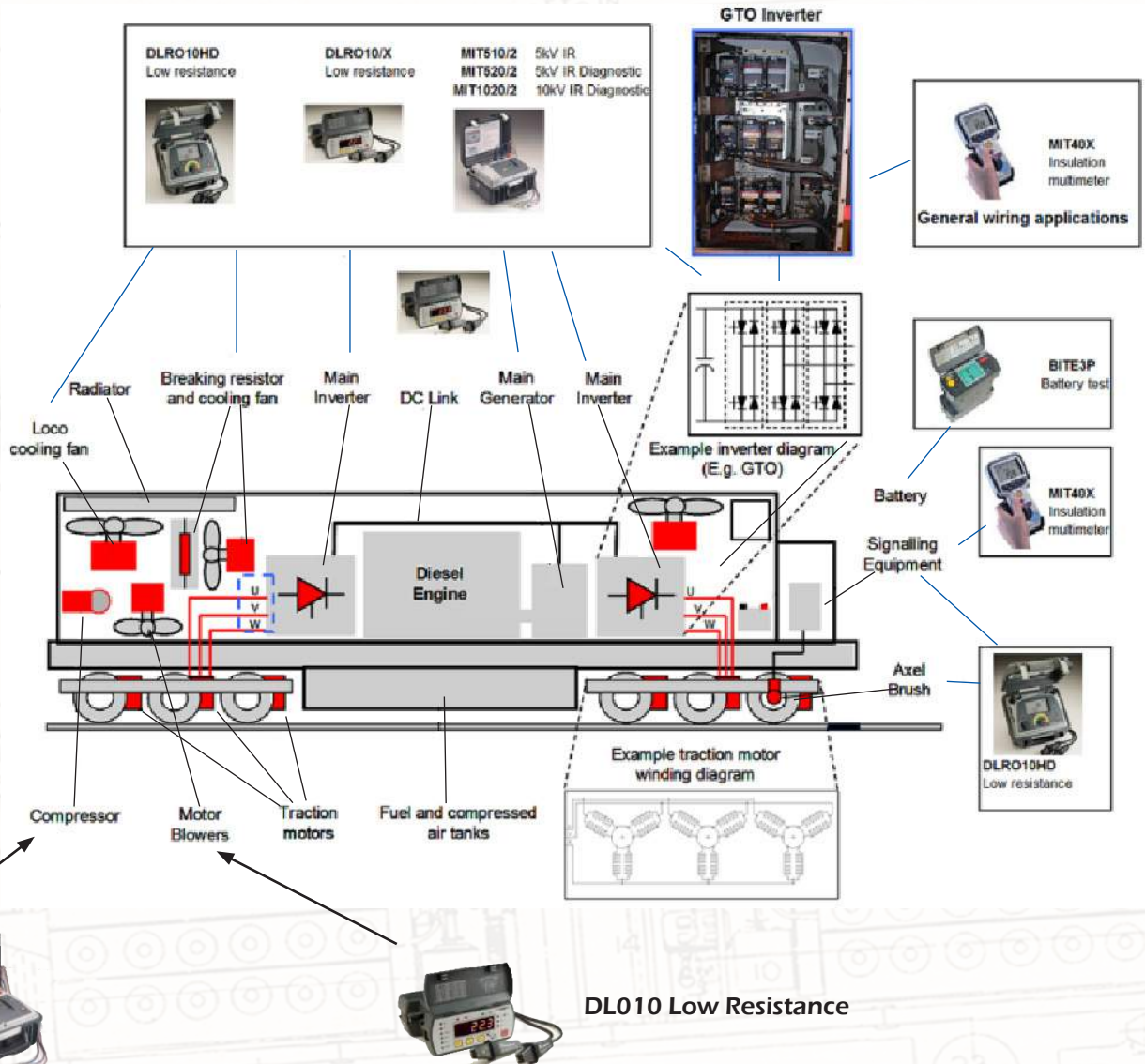


## INSULATION TESTERS

Complete Offering of Electrical and Electric Measuring Equipment

### Improved 5 and 10kV insulation testers

- Smaller size and lighter weight
- Easier to use
- Rotary switch dial
- Unique dual case design
- Intuitive operation
- Ramp test
- 3mA output power
- Accuracy where it matters most
- Super fast battery charge



DRO200 - MIT 5kV & 10kV





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Manufacturing and Distribution"*



## **JOURNAL BOXES - HYATT & ROLLER WHEEL BEARINGS**

Complete Line of AAR Quality New and Remanufactured Hyatt Journal Boxes,  
Conversion Boxes and Tapered Bearings  
**\*We Offer Unit Exchange or R&R Programs\***



Hyatt W/3N1 Liner

### **PowerRail P/N**

E7476217  
E7476218  
E7476218-3PC  
E7476218MOD

### **Application**

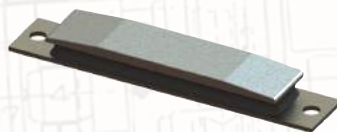
Hyatt Journal Box 6 1/2 x 11  
Hyatt Journal Box 6 1/2 x 12 Standard 3N1 Liner  
Hyatt Journal Box 6 1/2 x 12 3-Piece Lug Liner  
6 1/2 x 12 Modified for GG Bearing



All Hyatt Boxes are Modified  
with the 3N1 Liner Standard



Hyatt & Conversion Box Lateral Pad  
E9539431 & PRD16184305



E9539431 Lateral Pad

E9539431 Lateral Pad for all Hyatt and Generic Conversion Boxes for Locomotive axle.  
PRD16184305 Manufactured 1/8" lower to ease installation due to restraints and tight fits.

### **New and Unit Exchange GG Style Boxes**

E9539650	GG Adaptor Box (9580195)
E9539431	Lateral Pad
PRD16184305	Lateral Pad 1/8" Undersize
G41D7277667G5	GG Adaptor Box

**\*Offering a Full Line of Modified Boxes\***



**POWERRAIL**

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## JOURNAL BOXES - HYATT & ROLLER WHEEL BEARINGS

Complete Line of AAR Quality New and Remanufactured Hyatt Journal Boxes,  
Conversion Boxes and Tapered Bearings

E7482827

Cover w/Pipe Plug

E7491289

Cover with Axle Gen Hole

E8148707

Adaptor Extension for Axle Generator

E9529931

Bracket Shock Lower

E9529903

Bracket Shock 3 Axle



E7491289



E8148707



E9529931



E9529903



112192



Fig A

### Journal Box Shims

PowerRail #	Application	PowerRail #	Application
E8455980 (Fig A)	1/8 Inch	E8455982 (Fig B)	1 Inch
E8177292 (Fig A)	3/8 Inch	E8112192 (Fig B)	1 1/4 Inch
E8455981 (Fig B)	1/2 Inch	E8455983 (Fig B)	1 1/2 Inch
E8044686 (Fig B)	3/4 Inch	E8223384 (Fig B)	1 3/4 Inch



Fig B

### Full Line of Remanufactured Locomotive & Freight Bearings



Type	Size	Capacity - Tons
D	5 1/2 x 10	50 - Passenger
E	6 x 11	70 - Passenger
F	6 1/2 x 12	100 - Passenger
G	7 x 12	125
EE	5 1/2 or 6	Passenger
GG	6 1/2 or 6 7/8	Locomotive



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## **LOAD BOXES**

Complete Line of Custom-made Load Boxes

### **Custom Load Boxes**

Together, PowerRail Locomotive Services & PowerRail Electronics create complete custom-made Load Boxes to fit your needs. We offer New or Remanufactured Fans and Grids, as well as custom paint to fit the color scheme of your railroad.

- 2,000HP Load Box with (4) grids and (1) 36hp fan
- 3,000HP Load Box with (6) grids and (2) 18hp fans
- 4,000HP Load Box with (8) grids and (2) 18hp fans



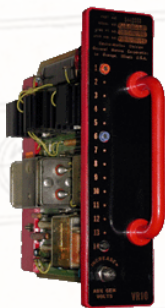


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## MODULES

Complete Line of Electronic  
Modules, Cards and Panels



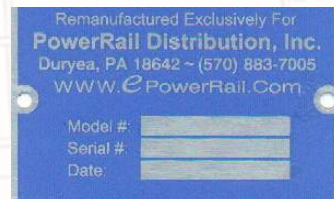
Type	Description
AN17	ANNUNCIATOR
DE12	DYNAMIC BRAKE EXT. RANGE CONTROL
DG12	DYNAMIC BRAKE GRID PROTECTION
DP12	DYNAMIC BRAKE PROTECTION
DR20	DYNAMIC BRAKE REGULATOR
EL11	EXCITATION LIMIT CONTROL
GV12	GENERATOR VOLT REGULATOR
GX12	GENERATOR EXCITATION REGULATOR
PF17	PERFORMANCE CONTROL
PF29	PERFORMANCE CONTROL
RC12	RATE CONTROL
SA10	SAND CONTROL
SB11	SENSOR BY-PASS MAX PERFORMANCE
SE13	SENSOR
TH14	THROTTLE RESP & VOLT REFERENCE
TR12	TRANSITION CONTROL
VR14	VOLTAGE REGULATOR
WS10	WHEEL SLIP

**G17FD and G17FL Style - Blue Electronic Cards  
Regulators and Complete Aux Panels**



## NAME PLATE & NUMBERING

Complete Line of Nameplates, Locomotive  
Numbers & Signs of All Shapes & construction



**7530**

**7530**

**YARD  
LIMIT**



**STOP  
ON RED  
SIGNAL**

PRIVATE  
**R X R**  
CROSSING  
NO TRESPASSING  
RIGHT TO PASS BY PERMISSION  
SUBJECT TO CONTROL OF OWNER  
PRIVATE CROSSING  
18" x 30"  
PPSC No. 50016-EG-1

PRIVATE  
PROPERTY  
NO  
TRESPASSING



**Other Popular Signs**

Please Visit our Website for Full Catalog  
[WWW.EPowerRail.Com](http://WWW.EPowerRail.Com)

Description	Sign Size	PowerRail #
Sign Engine Water Drain Inside	3 x 9	PP50035-131
Sign Emergency Brake Valve	4 3/8 x 8 3/8	PP50035-59
Sign Engine Water Fill	4 3/8 x 8 3/8	PP50035-6
Sign Emergency Fuel Cut-Out	2 1/2 x 6	PP50035-61
Sign Danger 600 Volt	4 3/8 x 8 3/8	PP50035-67
Sign Emergency First Aid Kit	5 x 11	PP50035-7
Sign Fire Extinguisher Inside	6 x 12	PP50035-72
Sign Sanitary Drain Pipe	4 7/8 x 9 1/8	PP50035-9

**We will Custom Manufacture any Sign**



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## PIPE CLAMP BRACKETS

Complete Line of Pipe Clamp Brackets



Ref #	Pipe O.D.	Length	Pipe or Tube
8108110	1/4"	2 1/2"	Tube
8108299	1/4"	4"	Tube
8108111	3/8"	2 1/2"	Tube
8108118	3/8"	4 1/2"	Pipe
8108202	3/8"	4 5/16"	Tube
8108113	1/2"	2 1/2"	Tube
8108115	1/2"	3"	Pipe
8108116	1/2"	3"	Pipe
9329413	1/2"	3"	Pipe
8108125	1/2"	3"	Pipe
8108117	1/2"	3 7/8"	Pipe
8108206	1/2"	4"	Tube
8104470	1/2"	4"	Pipe
8108114	5/8"	2 3/4"	Tube
8108209	5/8"	4 1/2"	Tube
8108126	3/4"	3 1/4"	Pipe
8327561	1"	3 1/2"	Pipe
8108127	1"	3 1/2"	Pipe
8108129	1 1/2"	4 3/8"	Pipe



Ref #	Pipe O.D.	Length	Pipe or Tube
8108201	1/4"	8 1/4"	Tube
8108118	3/8"	4 1/2"	Pipe
8108202	3/8"	4 5/16"	Tube
9318029	3/8"	5 9/16"	Tube
8236518	3/8"	6 5/16"	Tube
8236518	3/8"	6 5/16"	Tube
8108197	1/2"	6 5/8"	Pipe
8108208	1/2"	8 3/8"	Tube
8155268	1/2"	8 5/8"	Pipe
8108209	5/8"	4 1/2"	Tube
8108211	5/8"	8 7/16"	Tube
8108214	3/4"	8 3/4"	Tube
8108217	1"	8"	Pipe
8108219	1 1/4"	4 1/2"	Pipe
8108129	1 1/2"	4 3/8"	Pipe
8108241	2 1/2"	7 5/8"	Pipe



## PRIME MFG—SUN VISORS, MIRRORS, ENGINE PROTECTORS AND RECIRCULATING TOILETS

Complete Line of Prime Manufacturing Components



PowerRail P/N	Description
Engine Protectors	See Page 64
E9550240	Sun Visor - Ball Mounted
E9331382	Sun Visor - Straight Mount
E40006334	Sun Visor - Straight Mount
E8370302	Mirror with Bottom Deflector
SC875-32	Mirror Right or Left Mount General Purpose Switchers - Road Units
E9573201	Mirror Engineer 5 x 8" Left Hand
E9573200	Mirror Engineer 5 x 8" Right Hand
PM118-5	Toilet Stainless Steel



**POWERRAIL**

CREATIVE INNOVATIONS ... CONTINUING TRADITION



**"Uniting Innovation, Engineering,  
Manufacturing and Distribution"**



## HEAT EXCHANGERS

### RADIATORS, OIL COOLERS, PRE-HEATERS, INTERCOOLERS AND AFTER-COOLERS

Complete Line of New and **"True Blue™"** Unit Exchange Heat Exchangers

- ISO certified and Caterpillar Bronze Certified
- Tier 1 EPA Certified Products
- Custom Design and Manufacturing Strengths
- Extended Warranty

PowerRail P/N	Description
E40036275	Single 6 Row
E40017114	Triple 6 Row
E40017115	Double 6 Row
D4MB	Double 4 Row
T4MB	Triple 4 Row
S8MB	Single 8 Row
D8MB	Double 8 Row
T8MB	Triple 8 Row
Quad8	Quad 8 Row
G41D711033G10	31 " Radiator No Tanks
G41D701689P2	31 " Radiator With Tanks
G41D712040G4	42 " Radiator No Tanks
G41R971400G9	42 " Radiator With Tanks



PowerRail P/N	Description
E9544027	SW1500 Bundle Tubes
E9339040	4" MB Oil Cooler Core
E8364030	4" MB Oil Cooler Core WITH Case
E9514842	6" MB Oil Cooler Core
E9558515	6" MB Oil Cooler Core WITH Case
E9577200	PreHeater - Standard GP Style 60K
E40057079	PreHeater 60K BTU SD70
G84D702217P1	PreHeater
E8288974	10 Row AfterCooler 2 Pass 2 Flange
E8409891	10 Row AfterCooler 2 Pass 2 Flange
E40020885	12 Row AfterCooler 4 Pass 2 Flange
E40113591	12 Row AfterCooler 4 Pass 4 Flange
G128X1649	Intercooler Right - Long
G128X1650	Intercooler Left - Long
G128X1692	Intercooler Right - Short
G128X1693	Intercooler - Left Short
E9087321	Radiator Cap 2 Prong
E9323490	Radiator Cap 3 Prong
E9338780	Rad Cap 3 Prong 20PSI
E8039994	2 5/8" X 8" Rad Hose

**EMERGENCY**

**E8386654 Emergency Leak Stopper  
0.75OZ Containers in Stock**



**PRD16184458 Coolant Test Kit  
Rust Inhibitor**



Mechanical Bonding Heads

Mechanical Head Completed

Pressure & Leak Tested -  
Quality is #1





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Manufacturing and Distribution"*



## PINS - BUSHINGS - SLEEVES CLEVIS - LINERS, ETC.



## PRESSURE SWITCHES

Complete Line of New and Unit Exchange Pressure  
Switches, Sensors, Transducers and Valves



## CAB SUPPORT ITEMS

Complete Line of Cab Support Items including  
Refrigerators, Fans and Hotplates

<b>PowerRail P/N</b>	<b>Application</b>
ME4130 1.5 Cu Inch ME4170 2.5 Cu Inch	Stainless Refrigerator 110Volt with Bulit In Invertor
ME804	Cab Fan 74 VDC Single or Dual Spded
PMC945G	1000W 3 Switch 10" Dia.
E9509437	Cup Handset Hangup
E8145407	Coat Hook



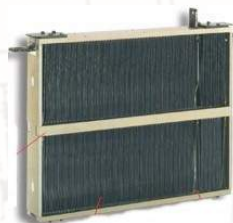
## RESISTOR GRIDS

Complete Line of Braking Resistor Grids.

<b>PowerRail P/N</b>	<b>Resistance</b>
E8304194, E40085144	.927 Ohms
E8304193, E40085145	.860 Ohms
E8347464, E40085146	.922 Ohms
E8339532	1.072 Ohms
E8339533	.970 Ohms
E9337613	.642 Ohms
E9337614	.689 Ohms
E9331050, E9191050	.923 Ohms
E9331051	860 Ohms
E8185703, E40085141	.660 Ohms
E8185704, E40085142	.660 Ohms
E8185705, E40085143	.690 Ohms
E8190834	.690 Ohms



<b>PowerRail P/N</b>	<b>Resistance</b>
E40010556	.860 Ohms
E40010557	.860 Ohms
E40010558	965 Ohms
E40010559	.632 Ohms
E40010560	.766 Ohm



**\*Please Contact Us On Our  
GE-Style Grids**





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## ROOTS BLOWERS

Complete Line of New and **"True Blue™"** series Roots Blowers remanufactured by  
**PowerRail Manufacturing**

Patented and proven **PowerSeal** that eliminates failure due to oil leaks.



**\*New and UX Roots Blowers Available**

<b>PowerRail P/N</b>	<b>Application</b>
E8379666	NEW Roots - Right Hand
E8379667	NEW Roots - Left Hand

<b>PowerRail P/N</b>	<b>Application</b>
E8379666UX	UX Roots - Right Hand
E8379667UX	UX Roots - Left Hand



**All Rebuilt Roots Blowers  
are Bench Tested**



**All Scrolls Are Precision Balanced**

## PowerRail's "True Blue™" Series



E8028594 Quill Shaft



E8206553 Bearing



E8369675 Bearing



E8028466  
Thrust Washer



E8204451 End Plate



E8189438 Housing



E8065752 Gear Cover



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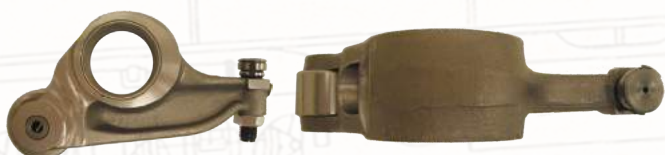


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## ROCKER ARMS AND VALVE BRIDGES

Complete Line of New and **"True Blue™"** Rocker Arms and Valve Bridges  
for 567, 645 and 710 Type Engines



567 Light Injector - E8456128

567 Light Exhaust - E8328694

645 Injector - E9319504 or E9319504HH

645 Exhaust - E9319505 or E9319504HH

### **Replacement Parts**

E9319504 Rocker Injector

E9571921 Bushing

E9571597 Roller

E8031925 Button Retaining Spring

E8328695 Body only



E8085260 - Valve Bridge Old Style

E40126370/40145929 - Valve Bridge New Style



645 Heavy Heavy Complete Set - E40052184HH



### **Valve Bridge Gauge Forks**

E8107788 0.0625

E40146269 0.140

E40146267 0.060

E40146268 0.100

### **Replacement Parts**

E8054088 Bridge

E8068791 Spring

E8028126 Seat

E8028136 Ring

E8052307 Button

E8085254 Lash Adjuster



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## SAND NOZZLES

Complete Line of Sand Nozzles

PowerRail P/N	Description	Application
E8328553	Sanding Nozzle	EMD Style
E8328938	Sanding Nozzle	EMD Style
G84C615855P1	Sanding Nozzle	GE Style
G41C625615P1	Sanding Nozzle	GE Style
G41B545256P1	Sanding Nozzle	GE Style



## SAND RELATED

Complete Line of Sand Related Support Items

PowerRail P/N	Sand Valves
E8320347	Shut-Off No Flange
E8320349	Shut Off With Flange
E9097530	Sand Hose 25 Foot
E8328950	Sand Hose 50 Foot
E8374760	Sand Hose Clamp
E8348109	Sand Trap 1 1/4 Inch
E8498335	Sand Valve Relay



PowerRail P/N	Description	Application
E8355568	Universal Guide Left	EMD & GE
E8355569	Universal Guide Right	EMD & GE
E8133933	Sand Pipe Guide	Left Front
E8133932	Sand Pipe Guide	Right Front
E8269587	Sand Trap	EMD Style
E8349902	Sand Trap	EMD Style
E8350356	Sand Trap	EMD Style
E10539205	Sander Guide Assembly	EMD Style

**\*Special Designs Available If Required**

## SAFETY LINE

Complete Line of Safety Products



**Bumpers Pg. 23**



**Safety matters**



**Safety Handles - Color Code Pg. 21**



**FRA Tape Pg. 85**



**Light Weight  
Bio Salt Pg. 35**



**Locomotive Flooring Pg. 43**



**Starter Safety Sling  
Pg. 86**



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## SAFETY CONES

Exclusively Manufactured for PowerRail  
Customized to suit Rail Requirements



**Lime or Orange  
Plain No Strip  
3M One Strip  
3M Dual Strip**

18" with 3 Lbs Base

28" with 7 Lb Base

36" with 10 Lb Base

## SAFETY VESTS

Manufactured for PowerRail for Rail Industry Safety



- ANSI/ISEA 1007-2004 Class 2 Certified
- 5 Point Tear Away for Snagging Safety
  - 100% Flame Resistant
  - 3M Reflective Strips
  - Washable

**\*5 Velcro points on vest allow for easy removal if caught in mechanical operation tear-away points on each shoulder, each side, and in the center.**

## SAFETY DRAIN MAT

Seals drains, grates, sewer, etc. against Fuel and Chemical Spills. Durable, Impact resistant 100% Polyurethane.



36" x 36" x 1/2"  
Standard Size  
Custom Sizes &  
Rolls Available



We also carry  
Emergency Spill Kits

Rail Version 3 1/4 Lbs  
Lightweight for rapid  
response and ease of  
operation

## SAFETY - WORK GLOVES

Complete Line of Work Gloves for Any  
Application and Protection



**Rubber**



**Leather**



**Mechanics**

## SAFETY - FIRST AID KIT

First Aid Kit For Any Onboard  
Accidents and Injuries



## SAFETY - HEARING PROTECTION

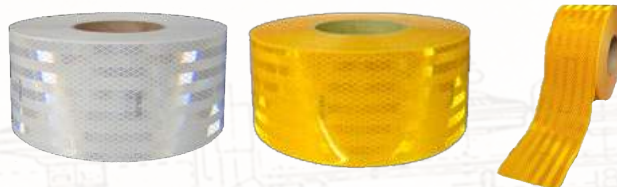
Premium Hearing Protection for  
Demanding Applications

- Innovative Flexible Bands offers Better Fit & Greater Comfort
- Optimal Band Size "One Size Fits All"
- Optimal Fit & Hearing Protection with 3 sets of Buds for precise Ear fits
- Durable Construction for Durability and Contamination Resistant

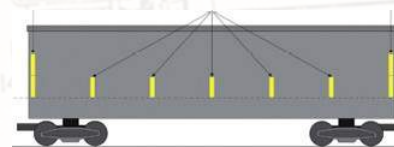


## SAFETY - FRA-224 REFLECTIVE TAPE

Complete Line of 3M® FRA Tape



- 4" x 150 Foot Rolls
- Kiss Cut or Continuous Roll
- White - Yellow - Fluorescent Yellow Colors



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## **SAFETY LINE**

Complete Line of Track Mats and Pad



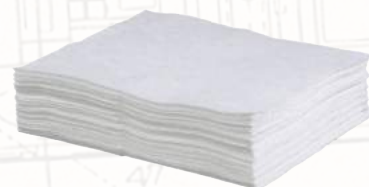
### **Track Mat - Coldform 2**

- **PRD16185004-19**
  - 19"x100' for outside of track
  - Qty 1 - 1 case (2 rolls per case)
- **PRD16185004-57**
  - 57" x 100' for inside of track
  - Qty 1 - 1 case (1 roll per case)
- **PRD16185004-SET**
  - 1 case of both sizes



### **Sorbent Socks Maintenance & Oil Only**

- **PRD16185036-O**
  - 3 Inch Diameter x 4 Foot Length
  - 30 socks per case
  - WHITE - absorbs oil only
- **PRD16185036-WO**
  - 3 Inch Diameter x 4 Foot Length
  - 30 socks per case
  - GREY - absorbs oil and water



### **Sorbent Pads and Rolls Oil-Only Medium Weight**

- **PRD16185035-PAD**
  - 15 inch x 18 inch pad
  - 100 pads per case
  - WHITE - absorbs oil only
- **PRD16185035-ROLL**
  - 30 inch x 150 roll
  - WHITE - absorbs oil only



### **Sorbent Pads and Rolls Maintenance Med. Weight**

- **PRD16185034-PAD**
  - 15 inch x 18 inch pad
  - 100 pads per case
  - GREY - absorbs oil and water
- **PRD16185034-ROLL**
  - 30 inch x 150 roll
  - GREY - absorbs oil and water

## **SAFETY STARTER SLING**

Our Starter Safety Sling has been designed to help make replacement of locomotive starters both a Safe and Efficient practice

### **Starter Safety Sling Features**

400 LB Weight Capacity  
Heat Resistant Up To 360° F & Chemical Resistant  
X-Pattern Stitching For Extra Reinforcement  
Safety Yellow Material  
Our sling can be used on all 32 and 64 volt starters

**P/N PRD16184407**



**Safety Lift**



**Safety Install**



**Safety Release**



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Manufacturing and Distribution"



## SAFETY LINE

Complete Line of Sure-Foot Inc. Products

### Facility Safety

Facility Safety Solution for Facility Worn Stairs. Our **PowerSafe** Aluminum Treads Install over Damaged or Unsecure steps

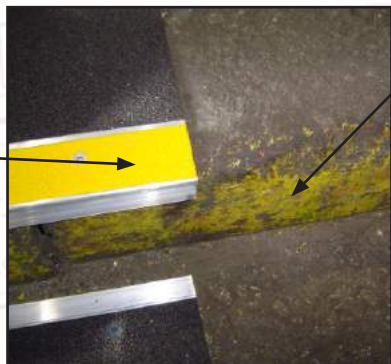


**Before**



**After**

**PowerSafe  
Solution  
Provided**



**Custom Made for ANY Size Step**

**Damaged  
Concrete  
Step**

**PowerSafe**

Custom Made for Any  
Locomotive Pit  
Up to 10 Foot Lengths

**ANY WIDTH**

Visually Enhances  
Dangerous Areas



**Safety matters**

### Locomotive Safety

Introducing the **PowerSafe** Safety Aluminum Treads design  
Exclusively for Injury Prevention on Locomotives



**SD70AC Cab Steps**



**SD70AC Engineer Side**



**SD70AC Conductor Side**

**DESIGNED AS KITS**

**Other Sure-Foot  
Products**

Safety Adhesive  
Back Tread Signs



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Manufacturing and Distribution”**



## SEATS - SWITCHERS

Complete Line of Seats for Switchers

- Narrower, shorter seat for Switcher applications
- Rugged heavy-gauge tubular steel construction
- Infinitely adjustable backrest angle
- 2-Way adjustable lumbar support
- Fire-resistant black vinyl material
- Full foam bolsters W/contoured lumbar support
- Integral spring supported cushion for shock isolation
- 6-Inch fore and aft seat adjustment



<b>PowerRail P/N</b>	<b>Application</b>
P183049CD37	Switcher Mid Back Standard
P183049CD37ARM	Switcher Mid Back With Arm
P180837	Ultra Low Back
P180837ARM	Ultra Low Back With Arm

## SEATS - ROAD UNITS

Complete Line of Seats for Road Units

- Rugged heavy-gauge tubular steel
- 2-way adjustable lumbar support
- Infinitely adjustable backrest angle
- Fire-resistant Vinyl Material (Cloth Optional)
- Cushion rake angle adjustment
- 2-inch forward adjustment on seat cushion
- Full foam bolsters with contoured lumbar support
- Integral spring supported cushion for shock isolation
- 9-inch fore-and-aft seat adjustment
- ABS plastic back protector W/placard attached

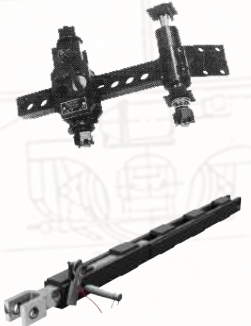


<b>PowerRail P/N</b>	<b>Application</b>
P180109CD37	High Back Non Sleeper
P176025PS	Floor Mount 4" Height Adjustment
P178241PS	Wall Mount With Swivel 3" Height

## SLACK ADJUSTERS

Complete Line of Locomotive Slack Adjusters  
and Brake Rigging

<b>PowerRail P/N</b>	<b>Application</b>
E9334230	SW Style
E9334229	GP Style Clasp Brake
E40042095	GP Style
E40039040	SD Style
E40039041	SD Style
G41C619252G1	GE
G41C612181G1	GE
G41C614411G2	GE



<b>PowerRail P/N</b>	<b>Application</b>
E8465284	Connection Strap, OE or Mod. 42" Wheels
E8099416	Connection Strap, OE or Mod. 42" Wheels
E8044913	Switcher - 2 or 3 Hole Strap
E9527279	GP Trucks, Single Shoe Brakes
E9516057	Slack Adjuster Assembly, Long
E9513003	Slack Adjuster Assembly, Short

## SIMULATORS

PowerRail, Inc. and PS Technology have worked together to develop both floor and table top simulator units which can be utilized in the classroom, at locomotive facilities, and can also be portable with the use of a trailer.



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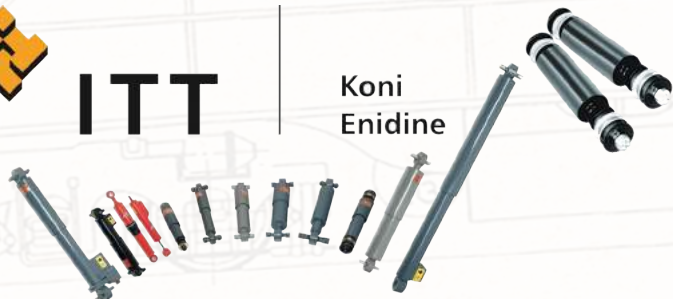
## SNUBBERS - SHOCK ABSORBERS - DAMPERS

Complete Line of Shock Absorbers and Snubbers  
manufactured by Enidine & Koni



**ITT**

Koni  
Enidine



### Common Stock Items

PowerRail P/N	Description
E4974695	Shock Lateral
E4993721	Shock
E40020355	Damper Yaw
E40031527/40087597	Shock Combo End
E40122566	Damper
E40086732	Damper
E40088065	Damper Yaw
E40153054	Damper Vertical
E40153061	Snubber
E40153062/22012514	Shock
G41A244100AAP	Snubber
G41C624176P1	Snubber
G41A319100P	Damper Axle
G41A319101P	Damper Lateral
G41A319102P	Damper Vertical

### Also Carry Shock Mount Plates



**E9529931**



**E9529903**

## SPARK ARRESTORS

Complete Line of Spark Arrestors For Any  
Locomotive. Custom or Standard Design



### Locomotive Spark Arrestors

PowerRail P/N	Application	Qty Required
10AC8	EMD SW-1	1
10AC10	EMD NW-2	2
10AC10	EMD NW-5	2
10AC12	EMD SW-8	1
10AC10	EMD SW7/9	2
10AC12LP	EMD SW-900	1
10AC12LP	EMD SW-1200	2
12AC12LP	EMD SD-7	2
12AC12LP	EMD SD-9	2
12AC12LP	EMD E-7	2
12AC12LP	EMD E-8	2
12AC12LP	EMD E-9	2
12AC12LP	EMD GP7	2
12AC12LP	EMD GP9	2
10AC10	EMD GP10	4
12AC12LP	EMD GP18	2
12AC12LP	EMD GP28	2
12AC12LP	EMD GP38	2

[Call for Details](#)



**POWERRAIL**

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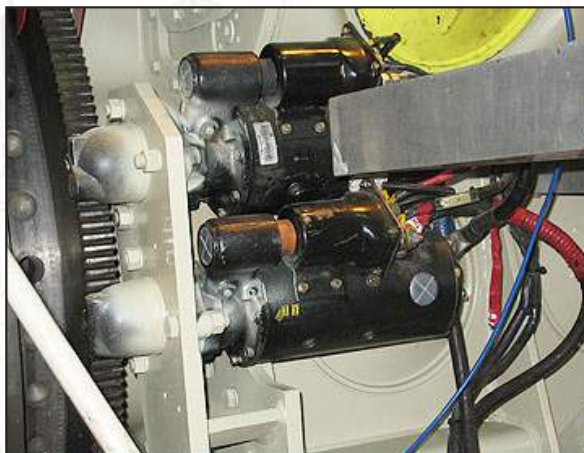
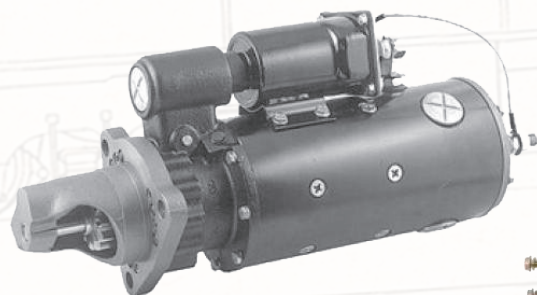
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## Starters are Failing Prematurely Due to The AESS Application

### STARTER MOTORS

Complete Line of New and our **"True Blue™"**  
Series Unit Exchange Starter Motors Utilizing  
OEM Delco Remy Enhanced Parts



### **AESS Enhancement**

- **Special Brushholder**
- **Heavier Copper Armature**
- **Special High Current Solenoid**
- **Special Copper Brushes**

### **PowerRail P/N**

### **Description**

E8384834/E1990333	32 Volt Starter
E8384834/E1990333AESS	32 Volt AESS*
E8428605/E1993740	64 Volt Starter
E8428605/E1993740AESS	64 Volt AESS*
E10478827/E40069492AESS	32 Volt AESS SD70 Series

\*Also available as Unit Exchange



**The UNIQUE Austart Air Starters are  
proven in Rail, Marine, Mining, Power  
Generation, Drilling and Gas Compression  
markets with great results holding up under  
the most demanding environments.**



Call us for our Full Line  
of Air Starters  
New OEM Style, Light weight  
Low Air consumption.



### **E8387359PRD**

Starter Cover  
Ask about our Enhanced  
Starter Shield



### **E9358874**

Starter Bracket



# POWERRAIL

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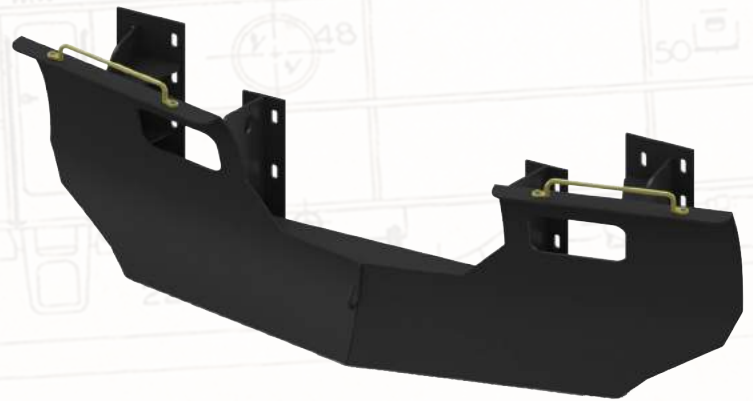


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## **SNOW PLOW TRACTION MOTOR BRASS**

"PowerBlade" manufactured by Avoca Rail Products  
Universal Design fits most Locomotives



**100% USA built at a competitive price.**

## **SUPPORTS - HANDRAILS, FEET AND BRACKETS** Complete Line of Supports, Handrails, Feet and Brackets

<b>PowerRail P/N</b>	<b>Description</b>
E9092557	Support Handrail 23.50"
E8258472	Support Handrail 36.75"
E8361180	Support Handrail 36.75"
E8368491	Support Handrail 41.75"
E8379948	Support Handrail 41.75"
E8379949	Support Handrail 41.75"
E8379953	Support Handrail 41.75"
E9553636	Support Handrail 41.75"
E8313482	Support Handrail 43.75"
E8331857	Support Handrail 43.75"
E8355621	Support Handrail 43.75"
E8216378	Support Handrail 45.75"
E8304234	Support Handrail 45.75"
E8344827	Support Handrail 49.375"
E8379950	Support Handrail 51.375"
E8379951	Support Handrail 51.375"
E8389882	Support Handrail 52.75"
E8313798	Support Handrail 53.375"
E8331849	Support Handrail 54.75"
E8315142	Support Handrail 56.75"
E8379947	Support Handrail 56.75"



**We Also Offer a Full Line  
of Treads And Steps**





*"Uniting Innovation, Engineering,  
Manufacturing and Distribution"*



## SHIMS AND SPACERS

Complete Line of Shims  
and Spacers



<b>PowerRail P/N</b>	<b>Description</b>
G41A210731P4	.062" Shim Air Compressor
E8478477	Shim Axle Cap
E40014450	.031" Shim Bearing Flange For Combo's
E8061581	.015" Shim Bearing to Bracket
E8083559	.020" Shim Bearing Plate
E8156922	Shim 11 Gauge
E8159285	.063" Main Generator Mounting
E8159286	.125" Generator Mounting
E8178082	.004" Shim Roots Blower
E8194923	.625" Frame Cover and Support
E8348671	.014" AR10 Shim
E8478477	.010" Shim Axle Cap
E8348667	AR10 11Ga
E8348668	AR10 16Ga
E8348669	AR10 20 Ga
E8348670	AR10 24 Ga
E8348671	AR10 0.14"
E8348672	AR10 .005"

## SUPPORT BEARING - TRACTION MOTOR BRASS

Complete Line of Premium Brass  
Support Bearings



<b>PowerRail P/N</b>	<b>Description</b>
E9557789	8" Standard
E9557790	8" 1/32" U.S.
E9557791	8" 1/16" U.S.
E9557792	8" 3/32" U.S.
E9557793	8" 1/8" U.S.
E9557794	8" Std. 1/32" OS Flange
E9557797	8 1/4" Standard
E9557798	8 1/4" 1/32" U.S.
E9557799	8 1/4" 1/16" U.S.
E9557800	8 1/4" 3/32" U.S.
E9557801	8 1/4" 1/8" U.S.
G41B535757G6	9" Standard
G41B535757G7	9" 1/32" U.S.
G41B535757G8	9" 1/16" U.S.
G41B535757G9	9" 1/8" U.S.
G41B535757G10	9" 3/16" U.S.



**Call for Details on  
Our PowerBrass  
Cost Reduction  
Program.**

**Significant \$\$\$ Savings  
\$\$\$ for NEW BRASS**



**POWERRAIL**

CREATIVE INNOVATIONS ... CONTINUING TRADITION



**“Uniting Innovation, Engineering,  
Manufacturing and Distribution”**



## SWITCHES

Complete Line of Switches

<b>PowerRail P/N</b>	<b>Description</b>
E8296748	Switch Roller Button 1NC - Throttle - Single End Faston Connection
E8296750	Switch Slide Roller Button - Controller Mechanism - Single End Faston
E8296752	Switch Roller Button 1NC - Controller Mechanism - Single End Faston
E8330133	Slide Switch Button Generator Field 1 NO with Double End Faston
E8330137	Slide Switch NO - Lights Engine Room, HV Cab Walkway
E8455355	Slide Switch 2 NO - Ditch Light With Seal Wire
E9097525	Slide Switch - 1 NO and 1 NC with Single End Faston Tab - Start, Head Light
E8481166	Slide Switch - 1 NO with Double End Faston Tab Connections - Light
E9333939	Slide Switch - 2 NO - Fuel Pump - With Double End Faston Tab Connections
E9096836	Rocker Switch-Double Pole, Single Throw
E8299162	Roller Switch-Manual Roller Lever 10A 120VDC
E8117872	Pressure Switch-Open at 20lbs, Closed at 35lbs.
E8301186	Pressure Switch—Cut in 130PSI, Cut Out 140PSI
E8334998	Pressure Switch-Cut in 10 PSI, Cut Out 15 PSI
E8340775	Pressure Switch-Open at 40lbs, Closed at 20lbs
E8425022	Pressure Switch-1st Stage, Open at 130PSI, Closed at 140 PSI 2nd Stage-Open at 135 PSI, Closed at 145 PSI.
E8425056	Pressure Switch-3 Pole Receptacle
E8283936	Temperature Switch—In at 170°, Out at 155°
E8424290	Temperature Switch-In at 174°, Out at 159°
E8425575	Temperature Switch-In at 215°, Out at 205°
E8457270	Temperature Switch-In at 175°, Out at 160°
E8457492	Temperature Switch-In at 185°, Out at 170°

**\*The Above List is a Sample of The Switches We Offer.**





**“Uniting Innovation, Engineering,  
Manufacturing and Distribution”**



## SWITCHES - ROTARY

Complete Line of Rotary Switches

PowerRail P/N	Description
E8204906	Cab Heater 4 Position 1 Pole 10A 125V
E8351224	Cab Heater 4 Position 1 Pole 10A 125V
E8276486	Cab Heater 4 Position 3 Pole 10A 125V
E8238108	Signal Light 4 Position 8 Pole 10 Amp 125 V.A.C.
E8314947	Sequence Test Panel 2 Position 8 Pole 10 Amp 125 V.A.C.
E8272931	Sequence Test Panel 3 Position 5 Pole 10 Amp 125 V.A.C.
E8440928	Module Test Panel 3 Position 5 Pole 20 Amp 600 V
E8332070	Fuel Prime and Engine Start 3 Position 4 Pole 10 Amp 125 V.A.C.
E834625	Fuel Prime and Engine Start 3 Position 5 Pole 10 Amp 125 VAC
E8441983	Fuel Prime and Engine Start 3 Position 6 Pole 20 Amp 600 V
E8242197	Headlight 2 Position 4 Pole 30 Amp 250 V.A.C
E8277638	A,C, Terminal Light 2 Position 2 Pole 30 Amp 250 V.A.C.
E8287557	Signal Light 2 Position 5 Pole 30 Amp 250 V.A.C
E8238109	Remote Head Light 4 Position 4 Pole 30 Amp 250 V.A.C
E8370683	Manual Power Red 3 Position 3 Pole 10 Amp 125 V.A.C.
E8345702	Traction Motor Cut-Out Switch 4 Position 10 Amp 125 V.D.C.
E8336232	Traction Motor Cut-Out Switch 5 Position 10 Amp 125 VDC
E8348980	Traction Motor Cut-Out Switch 5 Position 10 Amp 125 V.A.C.
E8332834	Hostlers Control Switch 1 Position 10 Amp. 74 V.D.C,
G41A313736P2	SBM Rotary Switch
G41A313738P1	3 Position Rotary Switch

Rotary Switch Handles	
PowerRail P/N	Description
E8189077	Switch Handle 1/4" O.D. Shaft
E8168346	Screw For Rotary Switch Handle 1/8-40 x 11/32
E8168328	Pin For Rotary Switch 3-48 x 1/2"
E131181	Washer Lock #6





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Manufacturing and Distribution”*



## SWITCHES - ROTARY

Complete Line of Rotary Switches

PowerRail P/N	Description
E8356487	Traction Motor Cut-Out Switch 4 Position 10 Amp 125 V.A.C.
E8435590	Signal Light 2 Position 1 Pole 30A 125V
E8460767	Remote Headlight 3 Position 1 Pole 30A 230V
E9083195	Ac Terminal Light 2 Position 2 Pole 30A 500V
E8298939	Heater 3 Position 2 Pole 30A 230V
E8237656	Directional Headlight 5 Position 2 Pole 30A 230V
E8485569	Slug Control 2 Position 4 Pole 10A 125V
E8437642	Heater 4 Position 4 Pole 30A 74V
E8484926	Heater 4 Position 4 Pole 30A 125V
E8243533	Remote Headlight 4 Position 4 Pole 30A 230V
E6923315	Unit Selector 4 Position 4 Pole 30A 500V
E8439118	Remote Headlight 4 Position 4 Pole 45A 600V
E8422024	Heater 8 Position 5 Pole 30A 230V
E8206315	Isolation 2 Position 6 Pole 30A 500V
E6916566	Isolation 2 Position 8 Pole 30A 500V
E8330988	Isolation 2 Position 8 Pole 30A 500V
E8433191	Isolation 2 Position 9 Pole 45A 600V
E8484096	Isolation 2 Position 10 Pole 45A 600V
E10589900	Rotary Snap 5 Position 2 Pole
G41A314126P1	Motor Cutout Rotary Switch
G84A201850P11	Headlight Rotary Switch

Rotary Switch Handles	
PowerRail P/N	Description
E8193318	Switch Handle 3/8" O.D. Shaft
E132037	Screw For Rotary Switch Handle 10-24 x 7/16"
E8193814	Pin For Rotary Switch 1/8 x 3/4"
E8256115	Washer Lock #10



**POWERRAIL**  
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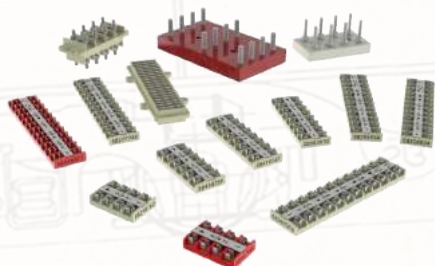


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Manufacturing and Distribution”**



## TERMINAL BOARDS

Complete Line Terminal Boards  
for all Electrical Applications



PowerRail P/N	Connection Type	Tabs
E8298162	Fast-On Single Sided	4
E8434754	Fast-On Single Sided	6
E8467946	Fast-On Single Sided	8
E8287076	Fast-On Single Sided	12
E8283970	Fast-On Single Sided	15
E8410147	Fast-On Single Sided	16
E8277744	Fast-On Single Sided	20
E8324824	Fast-On Single Sided	22
E8292938	Fast-On Single Sided	24
E8368473	Fast-On Single Sided	24
E9331353	Fast-On Double Sided	20
E9507683	Bolted Double Sided	8
E8354091	Bolted Single Sided	8
E8422649	Bolted Single Sided	12





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Manufacturing and Distribution"**



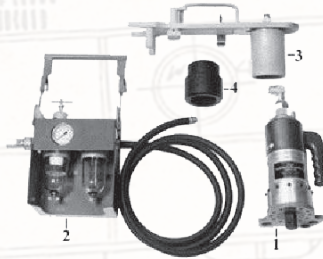
## TOOLS

Complete Line of Tools

\*This is just a sample of the tools we offer.  
Please visit [www.ePowerRail.com](http://www.ePowerRail.com) or call us today for many more.

### **T50031**

The T50031 kit was designed to make the job of torquing crab nuts easier while providing accurate torque results. It is comparable to our E8408219



### **T57870-115V**

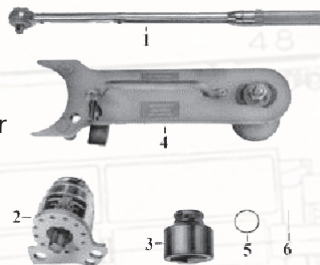
The T57870-115V offer excellent and uniform torquing of EMD Style power assembly crab nuts. It comes with a 1 1/8" hydraulic powered electric driven power unit rated at 9,000 PSI. It also comes with a 25 feet hose assembly, two wheel cart, and two socket torque. The wrench head is adjustable from 500 to 3,500 lb. ft. of torque.



### **T54101**

#### **Crab Nut Tool**

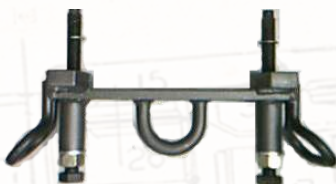
The T54101 is the manual kit for torquing EMD Style crab nuts.



### **T57211 Tool and T57211B for Bolts** EMD Style Power Assembly Break Loose Jacking Tool

### **E8075894**

Cylinder Head Puller



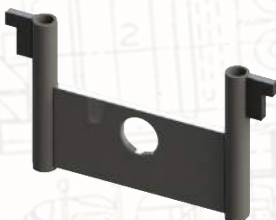
### **8417858**

Lifter Power Assembly



### **E8116358**

Lifter Cylinder Liner



### **E8171633PRD**

#### **Carrier Snap Ring Enhancement**



### **E8239562**

Installer/Remover Bushing



### **E8243341**

Hand Tool Breaker Traction Motor Leads



### **E8243341**

PRD Enhanced 2-Piece



### **E8339610**

Rack Setting



### **8432485**

Jack Governor Injector

### **E87170**

C Frame Tool  
Power Asslys Compressor  
Aux. Generators





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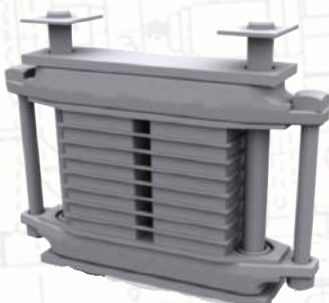
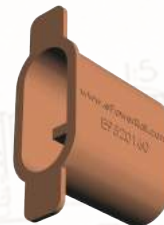
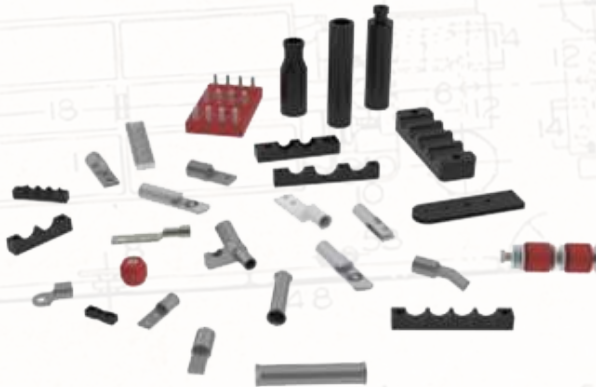
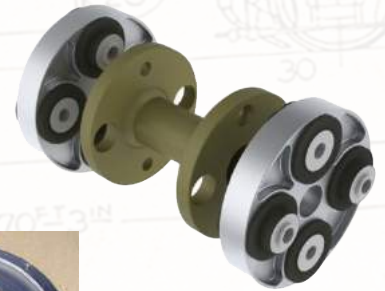
## RAIL & TRACTION NORTH AMERICA

Complete Line of Electrical Rotating Parts and  
Components that support Generators, Alternators,  
Traction Motors and other related equipment  
**A PowerRail Quality Company**



# Rail & Traction North America

CREATIVE INNOVATIONS...CONTINUING TRADITION



# POWERRAIL

CREATIVE INNOVATIONS ... CONTINUING TRADITION



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Manufacturing and Distribution"*



## TRACTION MOTORS

Complete Line of **"True Blue™"** Series  
Traction Motors, New and Remanufactured.  
We also offer a Full Line of Unit Exchange Combo's

**Shortline & Premium Rebuilds in Stock  
for Immediate Delivery**



- Class 1 Approved
- Internationally Approved
- Regionals & Short Line Approved
- Quality M-1003 approved Parts
- Quality Workmanship
- Experienced Staff
- Technical Support
- Competitive Price
- Full Line Support Products

D27/D37/D47	D57/D67	D77/D77B	D78	D87/D87B	D90
752E6	752E8	752 AF	752AG	752AH	GEB





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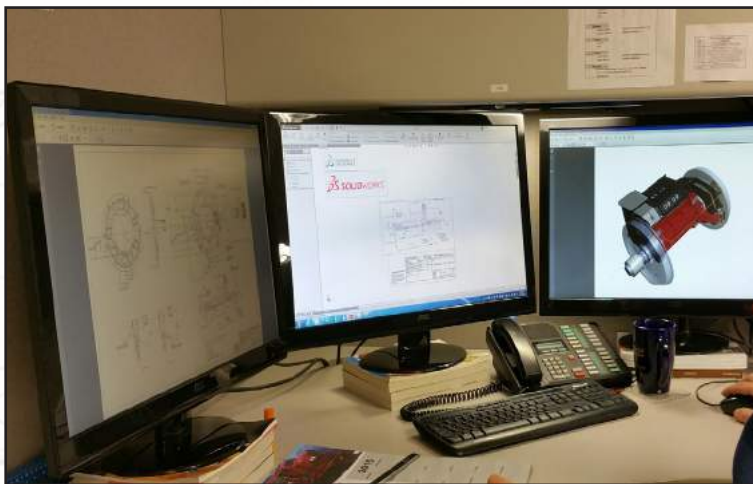


## TRACTION MOTORS

Complete Line of **100% New** GE-Style & EMD-Style  
Traction Motors

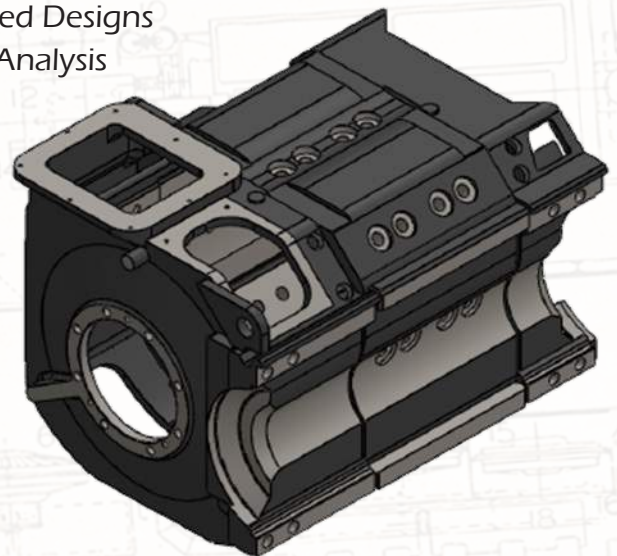


## Utilizing our M-1003 AAR OEM Verification Process



### SolidWorks CAD System Engineering Staff

- Product Development
- Enhanced Designs
- Failure Analysis

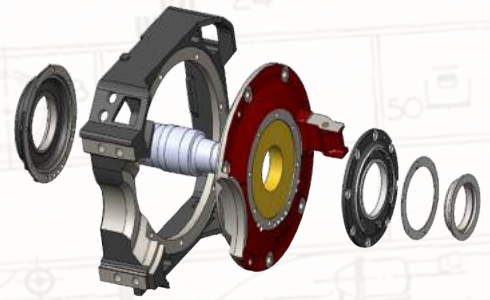


- Axle Caps
- Bearing Caps & Housings
- Flingers & Seals
- Frames
- Shafts
- Commutator & Armature
- Shims, Spacers, Sleeves, Laminations

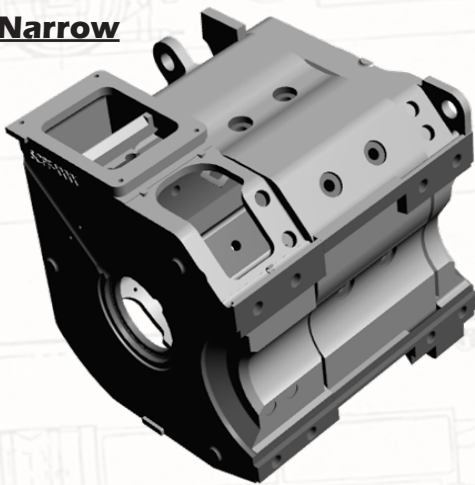




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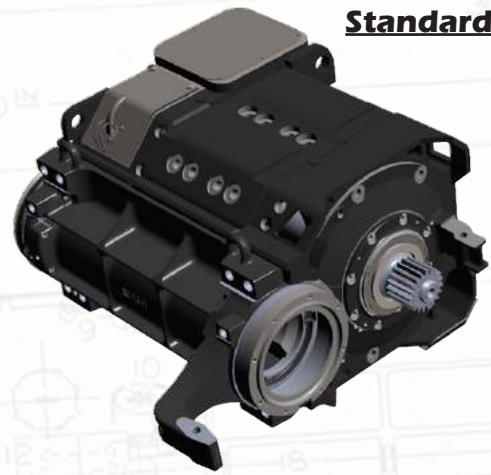


**Narrow**



**Gauge BTR or Axle Cap**

**Standard**



**Gauge BTR or Axle Cap**



**Eliminate Brass & Wick**

**\*Significant Cost/Labor Savings**

**Competitive cost for converting  
Brass Support to BTR U Tube  
Design using new  
and or remanufactured  
components.**



\*Note: The above images are similar in appearance. Please see our disclaimer stating we are not offering Genuine OEM parts or components. We are not an Authorized OEM Distributor. All parts are manufactured by PowerRail or vendors of PowerRail.



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### **Domestic Models**

5GE747, 5GE751, 5GE752, 5GE761,  
5GE763, 5GE764

### **International Models**

731 and 761 Series



\*Note: The above images are similar in appearance. Please see our disclaimer stating we are not offering Genuine OEM parts or components. We are not an Authorized OEM Distributor. All parts are manufactured by PowerRail or vendors of PowerRail.





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**Common Production Stock Parts**  
**D77-Style Traction Motor Support Items**



**A POWERRAIL  
ENHANCED PRODUCT**

**Oil Filler Cap**

- Redesigned to stop leaks
- Seal repositioned under head
- Upgraded B-SureSeal™ O-Ring  
3/4" Yellow 1" White



<b>PowerRail P/N</b>	<b>Description</b>
E8104188	Nose Support Plate
E8104189/E9087386	Nose Spring Holder Pack
E8126036	Safety Strap
E8322027	T-Bolt Safety Strap
E8326203	Gearcase Cap - Grease
E8407505	Clamp MS Gearcase
E40051181	Gearcase Install Kit Grease/Oil
E40061419	Gearcase Seal Oil
E40017436	Filler Cap
E8407506	Dust Guard CE

<b>PowerRail P/N</b>	<b>Description</b>
E9333024PRD	3/4" Oil Filler Cap - LEAK PROOF
E9324109PRD	1" Oil Filler Cap - LEAK PROOF
E8417729	D77 Brushholder
E9322058	D77 Carbon Brush
E9323317	Seal Ring Oil 8"
E8277771	Wick Lubricator
E9535375	Seal WS
E9535376	Seal MS
E40006705	15T Pinion - See Page 63
E40012790	Pinion Seal



<b>PowerRail P/N</b>	<b>Description</b>
E9583736	D77 Connector Crimp Type1325/24
E9583737	D77 Connector Crimp Type1100/24
E9583735	D77 Connector Crimp Type1480/24

<b>PowerRail P/N</b>	<b>Description</b>	<b>PowerRail P/N</b>	<b>Description</b>
E8341414	EMD Air Duct Assembly	E10661110	Insulator Sleeve
E8350968	TM Sleeve 1.5ID x 14 5/8 Lg	E10664863	SD70 Sleeve Insulating
E8194450	TM Sleeve 1.2ID x 12 1/2 Lg	E9520160	Rubber Faston
E8024365	EMD Switcher Air Duct	E9334248	Traction Nose Pack
E40111584	Cable Cleat D87/D90	E9096902	Sleeve Kit
E9094306	Cable Cleat D77	E8206883	Hi Temp Grommet
E8474056	Cable Cleat	G41B532099G1	GE 752 Cable Cleats
E9087386	Nose Pack Fabricated	E8243341	TM Cable Splitters



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**Common Production Stock Parts**  
**752-Style Traction Motor Support Items**

**752E8-Style Traction Motor**

<b>PowerRail P/N</b>	<b>Description</b>
G41A238534P1	Oil Fill Cap
G41B535245G1	Seal Ring 9" Oil
G41B537189P1	Dust Seal ME
G41B537190P1	Gutter/Seal WS
G41B537191P1	Gutter/Seal ME
G41B537266P1	Dust Guard CE
G41B537963P1	Brush
G41C632068G1	Wicks Lubricator Only
G41D731488G1	Inspection Cover Bottom
G4748663G1	Inspection Cover Top
G160X1026	Gearcase Install Kit - Grease
41C632667G6	Brushholder - Radial
18T - 20T - 22T	<b>Pinions - See Page 64</b>

**752AG-Style Traction Motor**

<b>PowerRail P/N</b>	<b>Description</b>
G41A238534P1	Oil Fill Cap
G41B535245G1	Seal Ring 9" Oil
G41C636752P1	Gutter
G41C636752P1	Gutter
G41B537963P1	Brush
G41D711633P	GE 752AG Air Duct
G41C635696G1	Wicks Lubricators Assy Complete
G41C636159G23	Inspection Cover Bottom
G41C636160G2	Inspection Cover Bottom
G41C636881G1	Inspection Cover Top
G160X1067	Gearcase Install Kit - Oil
G41C632667G6	Brushholder - Radial
18T - 20T - 22T	<b>Pinions - See Page 64</b>

**Oil Filler Cap**

- Redesigned to stop leaks
  - Seal repositioned under head
  - Upgraded B-SureSeal™ O-Ring
- 3/4" White



**752AF-Style Traction Motor**

<b>PowerRail P/N</b>	<b>Description</b>	<b>PowerRail P/N</b>	<b>Description</b>
G41A238534P1	Oil Fill Cap	G41C635696G1	Wicks Lubricator Assy
G41B535245G1	Seal Ring 9" Oil	G41C637106P1	Seal ME
G41B535795G1	Spring Cap - Grease	G41A235215P3	Clamp Dust Guard
G41B535882P2	Dust Seal Motor	G41D731488G1	Inspection Cover Bottom
G41B535883P2	Gutter Motor Side	G4748663G1	Inspection Cover Top
G41B535885P2	Gutter Wheel Side	G752AF-Set	Gearcase Install Kit - Grease
G41B537266P1	Dust Guard CE	G41C632667G	Brushholder Radial
G41B537307P1	Flinger Ring CE	G41C633771G2	Brushholder - Reaction
G41B537466P1	Lip Seal - Gearcase	18T - 20T - 22T	Pinions - See Page 63
G41B538243P1	Filler Cap	G160X1067	Gearcase Install Kit - Oil





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Manufacturing and Distribution"**



## TERMINAL LUGS

Complete Line of Terminal Lugs

### Glad Hand Terminal Lugs

#### **PowerRail P/N**

#### **Description**

E8109922	0.938" ID, 775/24, 1100/24 Solder Type
E8160270	1.000" ID, 5.312 Long, 1325/24 Solder Type
E8137331	1.1875" ID, 5.312 Long, 1600/24 Solder Type
E9583737	.938" ID, 5.312 Long, 1100/24 Crimp Type
E9583736	.984" ID, 5.312 Long, 1325/24 Crimp Type
E9583735	1.030" ID, 5.312 Long, 1480/24 Crimp Type
E40028834	1.094" ID, 5.55 Long, 1600/24 Crimp Type

### 2 Hole Terminal Lugs

#### **PowerRail P/N**

#### **Description**

G41A201820P1	3 3/4" OD, 11/32 Bolt, 925/24 Cable
G8868241AAP1	2 15/16" OD, 5/15 Bolt, 113/27 Cable
G8868241AAP2	2 5/8" OD, 5/16 Bolt, 113/24 Cable
G8868241AAP14	3 3/16" OD, 5/16 Bolt, 550/24 Cable
G8868241AAP16	3 3/16" OD, 5/16 Bolt, 775/24 Cable
G8868241AAP17	3 3/4" OD, 3/8" Bolt, 925/24 Cable
G8868241AAP18	3 3/4" OD, 3/8" Bolt, 1100/24 Cable

### Insulated Crimp Terminal Lugs with Stud Hole

#### **PowerRail P/N**

#### **Description**

E8123282	0.250" ID, 1/4" Stud Hole, Yellow, 12-18AWG
E8189218	0.170" ID, #6 Stud Hole, Blue, 14-18AWG
E8210498	0.170 ID, #10 Stud Hole, Blue, 14-18AWG
E8198189	0.170" ID, 1/4" Stud Hole, Blue, 14-18AWG
E8123281	0.170" ID, #10 Stud Hole, Yellow, 12-18AWG
E8123283	0.250" ID, 5/16" Stud Hole, Yellow, 12-18AWG
E8123284	0.250" ID, 3/8" Stud Hole, Yellow, 12-18AWG



**Traction Motor Lugs**



**2 Hole Lugs**

### Non Insulated Crimp Terminal Lugs with Stud Hole

#### **PowerRail P/N**

#### **Description**

G41A265615P10	No 8 or 10 Stud, 10-22 Awg
E10634854	Tongue 12-14AWG, Yellow, #10 Stud Size
E8131368	0.284 ID, 3/8 Stud Hole, #4 AWG
E8269635	0.120" ID, #10 Stud Hole, 16-22AWG
E8281475	0.180" ID, #10 Stud Hole, 14-18AWG
E8282623	0.180" ID, 1/4" Stud Hole, 14-18AWG
E8292367	0.192" ID, 1/4" Stud Hole, 10-14AWG
E8292368	0.192" ID, #8/10 Stud Hole, 10-12AWG
E8301545	0.192" ID, 3/8" Stud Hole, 10-14AWG
E9098813	0.393" ID, 5/16" Stud Hole, 225/24 AWG

### Non Insulated Crimp Terminal Lugs

#### **PowerRail P/N**

#### **Description**

E8118060	0.650 ID, Blank Stud Hole, 550/24 AWG
E8118061	0.762" ID, Blank Stud Hole, 775/24 AWG
E8118062	0.895" ID, Blank Stud Hole, 1100/24 AWG
E8160274	0.984" ID, Blank Stud Hole, 1325/24 AWG
E8352379	1.100" ID, Blank Stud Hole, 1600/24 AWG

### Butt Connector Terminal Lugs

#### **PowerRail P/N**

#### **Description**

E8188705	0.984" ID, 4.625" Long, 1325/24
E8188705	0.984" ID x 4.625" Long, 1325/24
E8188706	1.100 ID x 1.340 x 4.62 Long, 1600/24

### Battery. Terminal Lugs

#### **PowerRail P/N**

#### **Description**

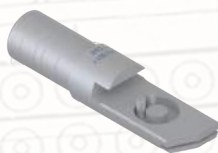
E8197509	0.880" ID, 13/32" Stud Hole, 4/0 Cable
E8211044	0.806" ID, 13/32 Hole, Flat Tongue 3/0 Wire
E8183110	0.880" ID, 13/32" Stud Hole, 4/0 Cable

**This is just a sample of the terminal lugs we offer.**

**Please visit [www.ePowerRail.com](http://www.ePowerRail.com) or call us today for many more.**



**Butt Connector Lugs**



**Gladhand Lugs**



**Traction Motor Lugs**



**POWERRAIL**  
CREATIVE INNOVATIONS ... CONTINUING TRADITION



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Manufacturing and Distribution”**



## TRACTION MOTOR CABLES

Complete Line of traction motor cables available  
for shipment when necessary



<b>PowerRail P/N</b>	<b>Description</b>	<b>Application</b>
E9565453	Traction Motor Cable	No. 1 to No. 2 - 20 3/4" Long
E9565450	Traction Motor Cable	No. 1 to No. 2 - 21 3/4" Long
E8351147	Traction Motor Cable	No. 1 to No. 4
E8355704	Traction Motor Cable	No. 1 to No. 2
E9319807	Traction Motor Cable	No. 1 to No. 2 and No. 3. to No. 4
E9565451	Traction Motor Cable	No. 3 to No. 4 - 20 3/4" Long
E8355728	Traction Motor Cable	Cable Assembly "A"
E9319806	Traction Motor Cable	Cable Assembly "A"
E9566056	Traction Motor Cable	Cable Assembly "A"
E9566664	Traction Motor Cable	Cable Assembly "A"
E40017962	Traction Motor Cable	Cable Assembly "AA" 87" Long
E8141062	Traction Motor Cable	Lead Assembly "AA" 7' 2 1/2" Long
E9566057	Traction Motor Cable	Cable Assembly "AA" 7' 4 11/16" Long
E9566661	Traction Motor Cable	Cable Assembly "AA" 7' 4 11/16" Long
E8141063	Traction Motor Cable	Lead Assembly "F" 6' 10" Long
E40017961	Traction Motor Cable	Cable Assembly "F" 7' 5/8" Long
E9566058	Traction Motor Cable	Cable Assembly "F" - 7' 5/8" Long
E9566662	Traction Motor Cable	Cable Assembly "F" - 7' 5/8" Long
E40017963	Traction Motor Cable	Cable Assembly "FF" 76" Long
E8141064	Traction Motor Cable	Lead Assembly "FF" 6' 3" Long
E9566059	Traction Motor Cable	Cable Assembly "FF" - 6' 7 3/16" Long
E9566663	Traction Motor Cable	Cable Assembly "FF" - 6' 7 3/16" Long



## New Flexible 3Kv Traction Motor Kit and Cables

- Easy to Install
- Very Flexible
- Longer Life & Reliable
- Lower cost in Long Run
- 3KV 200 Celsius vs. 2Kv 125 Celsius
- Class 1 approved





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## TRACTION MOTOR COVERS

Complete Line of Traction Motor Covers **MODIFIED** with **High Heat** Rubber Gaskets.

<b>PowerRail #</b>	<b>Application(s)</b>
E8117405	D7, D17, D27, D37, D47, D57, D67, D75, D77, D87, D90
E8117406	D7, D17, D27, D37, D47, D57, D67, D75, D77, D87, D90
E8176280	D29
E8183868	D7, D17, D27, D37, D57, D67, D75, D77
E8204661	D7, D17, D27, D37, D47, D57, D67, D75, D77, D87
E8204665	D7, D17, D27, D37, D47, D57, D67, D75, D77, D87
E8235994 E8236101	D29
E8300010	D7, D17, D27, D37
E8236103	D29
E8300011	D7, D17, D27, D37, D57, D67, D75, D77
E8300013	D7, D17, D27, D37, D47, D57, D67, D75, D77, D87, D90
E8408599	D57, D67, D75, D77, D87, D90
E8408688	D57, D67, D75, D77



<b>PowerRail #</b>	<b>Application(s)</b>
E8467155	D57, D67, D75, D77
E8467156	D57, D67, D75, D77
E9554330 E40007235	D87, D90
E10520631	D90TR
G4732425G2 G41C636159G2	752AG, 752AH
G41C636160G2	752AH
G4732425G2	752E8, 752AF
G41C636881G1	752AG
G41D731488G1	752E8, 752AF
G4748663G1	752E8, 752AF
G41C637083G2	752AH
G6726556P1	752E8, 752AF
G9961549G1	752





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### TRUCK ASSEMBLIES

**PowerRail Locomotive Services**, a division of PowerRail, Inc., offers repair/rebuild/remanufacturing services for the following truck types to customer specifications.

**"True Blue™"** Unit Exchange

We do International Bogies, as well.

Please call for details.



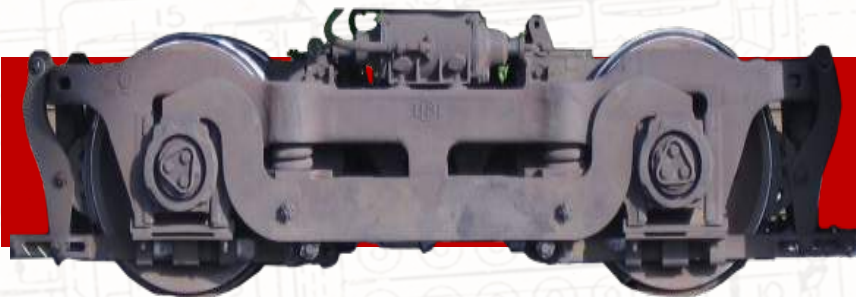
## GP TRUCK - BLOMBERG

Hyatt or GG Bearings  
Single or Clasp Brake Shoes  
Spring Bolster



## GP - BLOMBERG M

Hyatt or GG Bearings  
Single or Clasp Brake Shoes  
Suspension Pad Bolster



## EMD SWITCHER TRUCK

Friction or Roller Bearing  
Duplex Brake Cylinder



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## TRUCK PARTS

### BUSHINGS

Complete Line of Steel and Polymer Bushings

- 1/6th the weight of bronze
- Resistant to shock loading
- Low Friction
- Resistant to wear and abrasion
- Does not support marine growth
- Zero corrosion
- Impact Absorption
- Proven Field Test up to 10 year Life



No Torches Needed  
No Sledge Hammers  
Parts can be Reused



Installed Brake Head Bushings



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## TRUCK PARTS



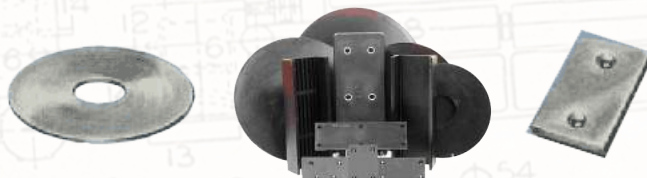
### CENTER PLATES, BOWL LINERS & PEDESTAL LINERS

Complete Line of Steel, Manganese and Special  
Molded Wear Parts for All Locomotives



<b>PowerRail P/N</b>	<b>Description</b>
E9548794	Center Bowl Liner Style 2 axle rigid truck Assy (3/8"Thk)
E9562813	Wear Bowl Liner Style 2 axle rigid truck Assy (1/2" Thick)
E9085368	Wear Bowl Liner 3/8" Bottom Plate Nylatron 17 7/8" Dia.
E9085369	Center Bowl Liner Style Flexicoil truck Assy SD Series
E8068060	GP Trucks - Wear Plate
E8492124	Center Bowl Liner Style 3 axle truck Assy SD-2, SD50/60
G41C629423G1	Center Bowl Liner Fits GE Style 3 Axle "C" Trucks
G41C629424G1	Center Bowl Liner Fits GE Style 2 Axle "B" Trucks
E9329633	Center Wear Plate GP Trucks - 1/2 Ring

<b>PowerRail P/N</b>	<b>Description</b>
E9324108/E4001004 E40012413	EMD-style Pedestal Liner
G41B515390P1 G41B515390P3	GE-style Pedestal Liner
E8206915	4" x 3" x 1/4" Nylon Plate
E8206916	5" x 2.625" x 1/4" Plate
E8386454	5.25" x 2.75" x 1/4" Plate
E8088354	10" x 3" x 1/4" Plate
E8336782-3/8	3/8" Thick
E8336782-3/4	3/4" Thick
E40010820	SW/GP/SD Trucks - Pedestal Liner Kit with Fastener



### COIL AND ELLIPTICAL LEAF SPRINGS

Complete Line of Coil Springs and Leaf Springs

<b>PowerRail P/N</b>	<b>Application</b>
E9549172	Double Coil
E8228050	Double SD40
E8057051	Spring Outer
E8057052	Inner Middle
E8057053	Spring Inner
E8106539	Elliptical Leaf Spring Set of 4

<b>PowerRail P/N</b>	<b>Application</b>
E8229325	Elliptical Leaf Spring
E8354463	Elliptical Spring Assembly Set
E9568083	GP Trucks - Elliptic Spring Nest Assembly (Low Profile)
E9085317	GP Trucks - Double Coil Journal Spring Assembly
E8020225	GP/SD Trucks - Traction Motor Air Duct
E40020765	GP/SD Trucks - Journal Spring Pad

\*Common Stock Items



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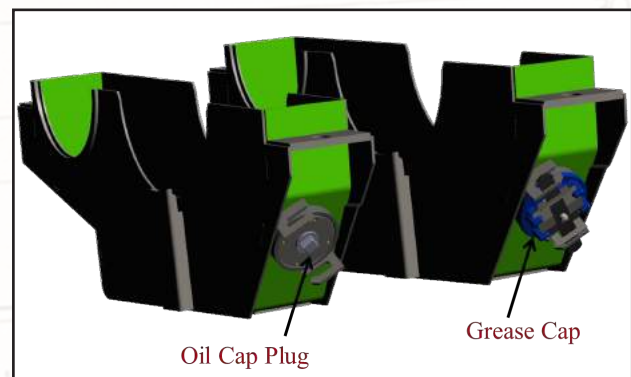
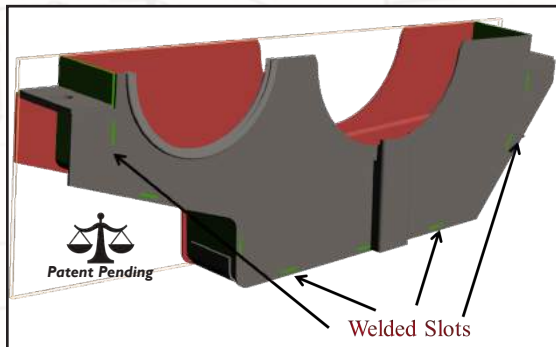
## TRUCK PARTS

### GEARCASES

Complete Line of Grease & Oil Gearcases



## PowerLok Oil & Grease Filled Gearcases PowerLok Combination Oil / Grease Filled Gearcases



#### Tab and Slot Design

- 100% Slot Alignment For Better Fit and Operation
- Strengthens the Seams for **Heavy Impact Resistance**
- More Welding Points **Improved Integrity and Strength**
- CNC Robotic Welder Provides Stronger Welds vs. That of Contemporary Welds
- CNC Robotic Welder Provides Less Heat Which Lowers Fatigue Typically Found on Contemporary Welds
- **\*Patent Design** - Mechanical and Electro Mechanical

#### Dual Cap Purpose

- Cap Drilled and Pinned to Prevent Improper Use

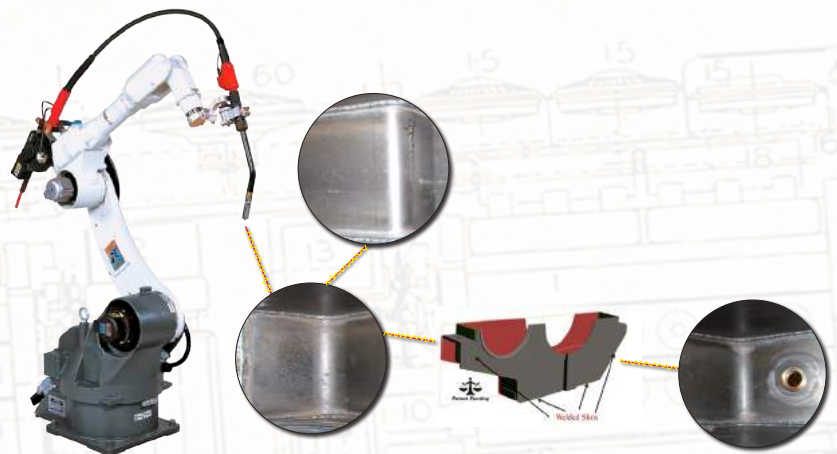
#### Benefits

- Full Line of **PowerLok Oil & Grease Gearcases**
- Less Inventory with Combination Oil/Grease Design (Standard Style Also Available)
- Reduction in Hazard Material Spills
- Reduction in Down Time Due to Small Derailments
- Increased Reliability and Service Life

**\*Enhanced Strength Patented Design  
Drastically Reduces Derailment Damage\***

#### Our New CNC Robotic Welder provides:

- stronger welds vs. that of contemporary welds
- less heat which lowers fatigue typically found on contemporary welds



Also Offering **Original** Design  
Grease & Oil  
Gearcases - PowerLok



**Call Our Team for Pricing  
and Availability!**



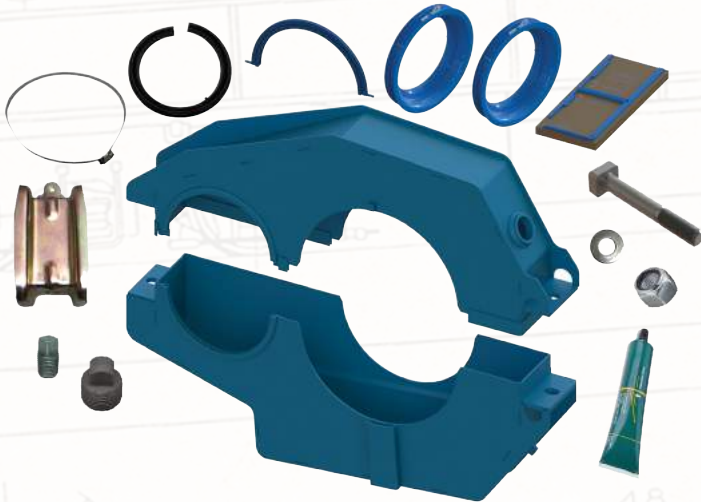
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## GEARCASE SETS

Complete Line of D77/D78/D87 Grease & Oil Gearcase Sets and Install Kits

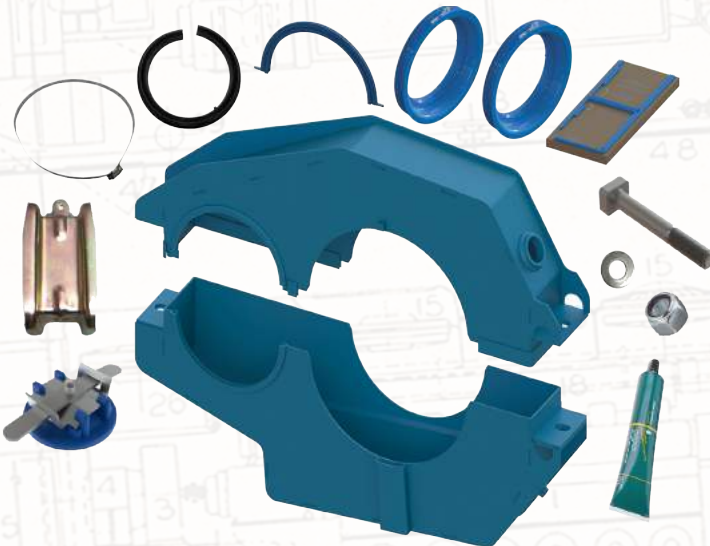
### Part #: PRD16185978 - Gearcase Set Oil Filled **COMPLETE**



Part #	Description	Qty
E40021647PLOK	Gearcase Oil Filled Lower	1
E40024857PLOK	Gearcase Oil Filled Upper	1
<b>PRD16184978TOIL / T-Bolt Oil Kit</b>		
E103410	Cotter Pin	2
E103880	Pipe Plug	1
E103881	Pipe Plug	1
E108659	Cotter Pin	2
E40012790	Seal Pinion Rubber	2
E40061419PRD	Seal Assembly Kit Oil Gearcase	1
E8126036	Safety Strap Gearcase	2
E8322027	T Bolt Safety Strap	2
E8366747	Compound Sealant Clear	1
E8407505	Clamp Wheelside Gutter	2
E8407506	Seal Dust Guard Commutator End	1
E9535375PRD	Ring Seal Outer Gearcase	1
E9535376PRD	Ring Seal Inner Gearcase	1
PRD100CNNEG5Z	Locknut Nylock	2
PRD16184773	Washer Flat	2

### **COMPLETE GEARCASE AND SEAL KIT \*OIL FILLED**

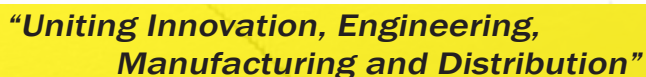
### Part #: PRD16185977 - Gearcase Set Grease Filled **COMPLETE**



Part #	Description	Qty
E9540306PLOK	Gearcase Grease Filled Lower	1
E9540598PLOK	Gearcase Grease Filled Upper	1
<b>PRD16184978TGRS / T-Bolt Grease Kit</b>		
E103410	Cotter Pin	2
E108659	Cotter Pin	2
E40012790	Seal Pinion Rubber	2
E40017436PRD	Cap Filler Gearcase	1
E40061419PRD	Seal Assembly Kit Oil Gearcase	1
E8126036	Safety Strap Gearcase	2
E8322027	T Bolt Safety Strap	2
E8366747	Compound Sealant Clear	1
E8407505	Clamp Wheelside Gutter	2
E8407506	Seal Dust Guard Commutator End	1
E9535375PRD	Ring Seal Outer Gearcase	1
E9535376PRD	Ring Seal Inner Gearcase	1
PRD100CNNEG5Z	Locknut Nylock	2
PRD16184773	Washer Flat	2

### **COMPLETE GEARCASE AND SEAL KIT \*GREASE FILLED**





This image shows an exploded view of a mechanical assembly. The central component is a large, blue, C-shaped bracket. Surrounding it are various other parts, each labeled with a letter from A to Z. The components include: a black ring (A), a blue ring (B), a white ring (C), a blue ring (D), a rectangular plate (E), a metal plate (F), a metal plate (G), a metal plate (H), a metal plate (I), a metal plate (J), a metal plate (K), a metal plate (L), a metal plate (M), a metal plate (N), a metal plate (O), a metal plate (P), a metal plate (Q), a metal plate (R), a metal plate (S), a metal plate (T), a metal plate (U), a metal plate (V), a metal plate (W), a metal plate (X), a metal plate (Y), and a metal plate (Z).

Part #	Description	Qty
E40017364PLOK	Gearcase Oil Filled Lower - D87BTR	1
E40017363PLOK	Gearcase Oil Filled Upper - D87BTR	1
<b>PRD16184978TBTR / T-Bolt Oil Kit</b>		
E103410	Cotter Pin	1
E108659	Cotter Pin	2
E40006689	Seal Inner Ring	1
E40012790	Seal Pinion Rubber	2
E40017436PRD	Cap Gearcase Filler	2
E40061419PRD	Seal Assembly Kit Oil Gearcase	1
E8126036	Safety Strap Gearcase	2
E8322027	T Bolt Safety Strap	2
E8366747	Compound Sealant Clear	1
E8407505	Clamp Wheelside Gutter	2
E8407506PRD	Seal Dust Guard Commutator End	1
E9535375PRD	Ring Seal Outer Gearcase	1
E8032750	Locknut Nylock	2
E8322026	Washer Flat	2
PRD16184773	Washer Flat	2

An exploded view of a mechanical assembly. The central component is a large, blue, C-shaped bracket. Surrounding it are various other parts: a black ring (1), a blue ring (2), a white ring (3), a blue ring (4), a blue ring (5), a blue ring (6), a blue ring (7), a blue ring (8), a blue ring (9), a blue ring (10), a blue ring (11), a blue ring (12), a blue ring (13), a blue ring (14), a blue ring (15), a blue ring (16), a blue ring (17), a blue ring (18), a blue ring (19), a blue ring (20), a blue ring (21), a blue ring (22), a blue ring (23), a blue ring (24), a blue ring (25), a blue ring (26), a blue ring (27), a blue ring (28), a blue ring (29), a blue ring (30), a blue ring (31), a blue ring (32), a blue ring (33), a blue ring (34), a blue ring (35), a blue ring (36), a blue ring (37), a blue ring (38), a blue ring (39), a blue ring (40), a blue ring (41), a blue ring (42), a blue ring (43), a blue ring (44), a blue ring (45), a blue ring (46), a blue ring (47), a blue ring (48), a blue ring (49), a blue ring (50), a blue ring (51), a blue ring (52), a blue ring (53), a blue ring (54), a blue ring (55), a blue ring (56), a blue ring (57), a blue ring (58), a blue ring (59), a blue ring (60), a blue ring (61), a blue ring (62), a blue ring (63), a blue ring (64), a blue ring (65), a blue ring (66), a blue ring (67), a blue ring (68), a blue ring (69), a blue ring (70), a blue ring (71), a blue ring (72), a blue ring (73), a blue ring (74), a blue ring (75), a blue ring (76), a blue ring (77), a blue ring (78), a blue ring (79), a blue ring (80), a blue ring (81), a blue ring (82), a blue ring (83), a blue ring (84), a blue ring (85), a blue ring (86), a blue ring (87), a blue ring (88), a blue ring (89), a blue ring (90), a blue ring (91), a blue ring (92), a blue ring (93), a blue ring (94), a blue ring (95), a blue ring (96), a blue ring (97), a blue ring (98), a blue ring (99), a blue ring (100).

<b>Part #</b>	<b>Description</b>	<b>Qty</b>
E40017364PLOK	Gearcase Grease Filled Lower	1
E40017363PLOK	Gearcase Grease Filled Upper	1
<b>PRD16186701 / Huck Bolt Oil Kit</b>		
E103410	Pin Cotter	1
E108659	Pin Cotter	2
E40006689	Seal Inner Ring	1
E40012790	Seal Pinion Rubber	2
E40017436PRD	Cap Gearcase Filler	2
E40061419PRD	Seal Assembly Kit Oil Gearcase	1
E8126036	Safety Strap Gear Case	2
E8423699	Rivet Huck	2
E8366747	Compound Sealant Clear	1
E8407505	Clamp Wheelside Gutter	2
E8407506PRD	Seal Dust Guard Commutator End	1
E9535375PRD	Ring Seal Outer Gearcase	1
E40034493	Huck Collar	2
E8322026	Washer Flat	2



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## GEARCASE INSTALLATION KITS



**PRD16184978HUCK / Huck Bolt Oil Kit**

Part #	Description	Qty
E103880	Pipe Plug	1
E103881	Pipe Plug	1
E40012790	Seal Pinion Rubber	2
E40034493	Huck Collar	2
E40061419PRD	Seal Assembly Kit Oil Gearcase	1
E8126036	Safety Strap Gearcase	2
E8366747	Compound Sealant Clear	1
E8407505	Clamp Wheelside Gutter	2
E8407506	Seal Dust Guard Commutator End	1
E842369	Rivet Huck	2
E9535375PRD	Ring Seal Outer Gearcase	1
E9535376PRD	Ring Seal Inner Gearcase	1
PRD16184773	Washer Flat	2

Part #	Description	Qty
E103410	Cotter Pin	2
E103880	Pipe Plug	1
E103881	Pipe Plug	1
E108659	Cotter Pin	2
E40012790	Seal Pinion Rubber	2
E40061419PRD	Seal Assembly Kit Oil Gearcase	1
E8126036	Safety Strap Gearcase	2
E8322027	T Bolt Safety Strap	2
E8366747	Compound Sealant Clear	1
E8407505	Clamp Wheelside Gutter	2
E8407506	Seal Dust Guard Commutator End	1
E9535375PRD	Ring Seal Outer Gearcase	1
E9535376PRD	Ring Seal Inner Gearcase	1
PRD100CNNEG5Z	Locknut Nylock	2
PRD16184773	Washer Flat	2



**PRD16184978TOIL / T-Bolt Oil Kit**



**PRD16184978TGRS / T-Bolt Grease Kit**

Part #	Description	Qty
E103410	Cotter Pin	2
E108659	Cotter Pin	2
E40012790	Seal Pinion Rubber	2
E40017436PRD	Cap Filler Gear Case	1
E40061419PRD	Seal Assembly Kit Oil Gearcase	1
E8126036	Safety Strap Gearcase	2
E8322027	T Bolt Safety Strap	2
E8366747	Compound Sealant Clear	1
E8407505	Clamp Wheelside Gutter	2
E8407506	Seal Dust Guard Commutator End	1
E9535375PRD	Ring Seal Outer Gearcase	1
E9535376PRD	Ring Seal Inner Gearcase	1
PRD100CNNEG5Z	Locknut Nylock	2
PRD16184773	Washer Flat	2



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## GEARCASE INSTALLATION KITS (cont.)

Part #	Description	Qty
E103410	Cotter Pin	2
E108659	Cotter Pin	2
E40017436PRD	Cap Filler Gearcase	1
E8126036	Safety Strap Gearcase	2
E8257840	Seal Kit Felt	2
E8322027	T Bolt Safety Strap	2
E8366747	Compound Sealant Clear	1
E8407505	Clamp Wheelside Gutter	1
E8407506PRD	Seal Dust Guard Commutator End	1
E8032750	Locknut Nylock	2
E8322026	Washer Flat	2
E8310818	Seal Rope Gearcase	1



### PRD16184978TFELT / T-Bolt Grease Felt Seal Kit



### PRD16184978TBTR / T-Bolt D87 Kit

Part #	Description	Qty
E103410	Pin Cotter	1
E108659	Pin Cotter	2
E40006689	Seal Inner Ring	1
E40012790	Seal Pinion Rubber	2
E40017436PRD	Cap Gear Case Filler	2
E40061419PRD	Seal Assembly Kit Oil Gearcase	1
E8126036	Safety Strap Gear Case	2
E8322027	T Bolt for Safety Strap	2
E8366747	Compound Sealant Clear	1
E8407505	Clamp Wheelside Gutter	2
E8407506PRD	Seal Dust Guard Commutator End	1
E9535375PRD	Ring Seal Outer Gearcase	1
E8032750	Locknut Nylock	2
E8322026	Washer Flat	2

Part #	Description	Qty
E103410	Pin Cotter	1
E108659	Pin Cotter	2
E40006689	Seal Inner Ring	1
E40012790	Seal Pinion Rubber	2
E40017436PRD	Cap Gear Case Filler	2
E40061419PRD	Seal Assembly Kit Oil Gearcase	1
E8126036	Safety Strap Gear Case	2
E8423699	Rivet Huck	2
E8366747	Compound Sealant Clear	1
E8407505	Clamp Wheelside Gutter	2
E8407506PRD	Seal Dust Guard Commutator End	1
E9535375PRD	Ring Seal Outer Gearcase	1
E40034493	Huck Collar	2
E8322026	Washer Flat	2



### PRD16184978HBTR / Huck Bolt D87 Kit



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## EMD-STYLE GEARCASES

PRD#	DESCRIPTION	TM	SEALS	RATIO	LOCOMOTIVES	LUBE
E9540306PLOCK	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE
E9540306COMBO	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E9540307PLOCK	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE
E9540307COMBO	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E9540598PLOCK	UPPER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE
E9540598COMBO	UPPER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E40021647PLOCK	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	OIL
E40021647COMBO	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E40024857PLOCK	UPPER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	OIL
E40024857COMBO	UPPER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E8301948PLOCK	UPPER GEARCASE	D77/87	FELT	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE
E8301948COMBO	UPPER GEARCASE	D77/87	FELT	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E9315720PLOCK	LOWER GEARCASE	D77/87	FELT	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE
E9315720COMBO	LOWER GEARCASE	D77/87	FELT	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E9310002PLOCK	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE
E9310002COMBO	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E40038097PLOCK	LOWER GEARCASE	D70	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	OIL
E40038097COMBO	LOWER GEARCASE	D70	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	GREASE or OIL
E4003808PLOCK	UPPER GEARCASE	D70	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	OIL
E40038098COMBO	UPPER GEARCASE	D70	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	GREASE or OIL
E40046866PLOCK	LOWER GEARCASE	D90/100	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	OIL
E40046866COMBO	LOWER GEARCASE	D90/100	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	GREASE or OIL
E40046865PLOCK	UPPER GEARCASE	D90/100	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	OIL
E40046865COMBO	UPPER GEARCASE	D90/100	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	GREASE or OIL
E40017363PLOCK	UPPER GEARCASE	D87BTR	PLASTIC	70:17	GP60, SD60I	OIL
E40017363COMBO	UPPER GEARCASE	D87BTR	PLASTIC	70:17	GP60, SD60I	GREASE or OIL
E40017364PLOCK	LOWER GEARCASE	D87BTR	PLASTIC	70:17	GP60, SD60I	OIL
E40017364COMBO	LOWER GEARCASE	D87BTR	PLASTIC	70:17	GP60, SD60I	GREASE or OIL
E9540579PLOCK	UPPER GEARCASE	E MOTOR	PLASTIC	65:12	DD, F, FP, GP, DP, SW	GREASE
E9540579COMBO	UPPER GEARCASE	E MOTOR	PLASTIC	65:12	DD, F, FP, GP, DP, SW	GREASE or OIL

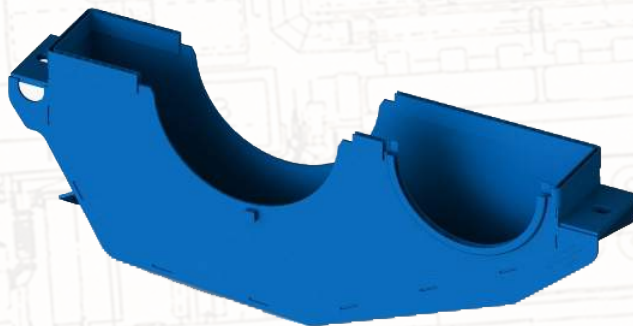
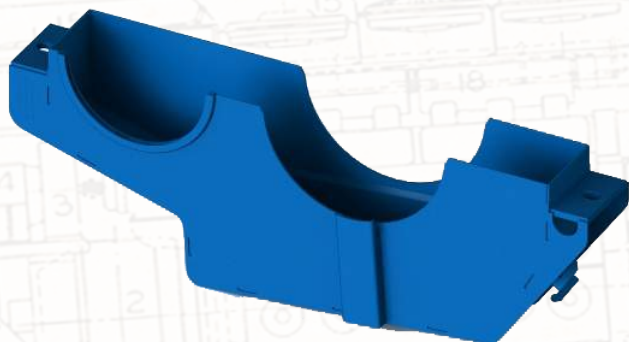


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### EMD-STYLE GEARCASES (cont.)

<b>PRD#</b>	<b>DESCRIPTION</b>	<b>TM</b>	<b>SEALS</b>	<b>RATIO</b>	<b>LOCOMOTIVES</b>	<b>LUBE</b>
E9541129PLOCK	LOWER GEARCASE	E MOTOR	PLASTIC	65:12	DD, F, FP, GP, DP, SW	GREASE
E9541129COMBO	LOWER GEARCASE	E MOTOR	PLASTIC	65:12	DD, F, FP, GP, DP, SW	GREASE or OIL
E8301947PLOCK	UPPER GEARCASE	E MOTOR	FELT	65:12	DD, F, FP, GP, DP, SW	GREASE
E8301947COMBO	UPPER GEARCASE	E MOTOR	FELT	65:12	DD, F, FP, GP, DP, SW	GREASE or OIL
E8302646PLOCK	LOWER GEARCASE	E MOTOR	FELT	65:12	DD, F, FP, GP, DP, SW	GREASE
E8302646COMBO	LOWER GEARCASE	E MOTOR	FELT	65:12	DD, F, FP, GP, DP, SW	GREASE or OIL
E8429098PLOCK	UPPER GEARCASE	D29/43	FELT	71:18	REPLACES 8283441	GREASE
E8429098COMBO	UPPER GEARCASE	D29/43	FELT	71:18	REPLACES 8283441	GREASE or OIL
E8283442PLOCK	LOWER GEARCASE	D29/43	FELT	71:18		GREASE
E8283442COMBO	LOWER GEARCASE	D29/43	FELT	71:18		GREASE or OIL
E9557134PLOCK	UPPER GEARCASE	D29/D44	PLASTIC	NARROW 71:18		GREASE
E9557134COMBO	UPPER GEARCASE	D29/D44	PLASTIC	NARROW 71:18		GREASE or OIL
E9559650PLOCK	LOWER GEARCASE	D29/D43	PLASTIC	NARROW 71:18		GREASE
E9559650COMBO	LOWER GEARCASE	D29/D43	PLASTIC	NARROW 71:18		GREASE or OIL
E8344966PLOCK	UPPER GEARCASE	D29CC	FELT	NARROW	G18, GL22	GREASE
E8344966COMBO	UPPER GEARCASE	D29CC	FELT	NARROW		GREASE or OIL
E8344965PLOCK	LOWER GEARCASE	D29CC	FELT	NARROW	GT22, G26, GT26	GREASE
E8344965COMBO	LOWER GEARCASE	D29CC	FELT	NARROW		GREASE or OIL
E40105121PLOCK	UPPER GEARCASE	70ACE	PLASTIC			OIL
E40105121COMBO	UPPER GEARCASE	70ACE	PLASTIC			GREASE or OIL
E4015120PLOCK	LOWER GEARCASE	70ACE	PLASTC			OIL
E4015120COMBO	LOWER GEARCASE	70ACE	PLASTC			GREASE or OIL
E40017436PRD	GEARCASE CAP	ENHANCED PLASTIC CAP FOR GREASE STYLE GEARCASES				



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## GE-STYLE GEARCASES

PRD#	DESCRIPTION	TM	RATIO	LOCOMOTIVES	LUBE
G41D731910G2 G46756697G2	UPPER GEARCASE	E8	74:18	B23 -7, M630, U18B, U23B, U25C, U25B, U30B, U30C, U33C, U36C, C -424	GREASE
G41D731910G8 G6756697G3	LOWER GEARCASE	E8	74:18	B23 -7, M630, U18B, U23B, U25C, U25B, U30B, U30C, U33C, U36C, C -424	GREASE
G41D731910G7 or G9 G6756697G1 or G11	SET GEARCASE	E8	74:18	B23 -7, M630, U18B, U23B, U25C, U25B, U30B, U30C, U33C, U36C, C -424	GREASE
G41D732358P1 G41D732364G2	UPPER GEARCASE	AF	83:20	C30 -7, C30 -7A, C36 -7, C39 -8, C40 -8, C40 -8M, C40 -8, C40 -9, DASH 8 -32B	GREASE
G41D732358P1 G41D732364G3	LOWER GEARCASE	AF	83:20	C30 -7, C30 -7A, C36 -7, C39 -8, C40 -8, C40 -8M, C40 -8, C40 -9, DASH 8 -32B	GREASE
G41D732364G1	SET GEARCASE	AF	83:20	C30 -7, C30 -7A, C36 -7, C39 -8, C40 -8, C40 -8M, C40 -8, C40 -9, DASH 8 -32B	GREASE
G41D735356P1 G41D735347P2	UPPER GEARCASE	AG	83:20	C40 -8 (Reminder: An AG will fit an AF)	OIL
G41D735868P1	LOWER GEARCASE	AG	83:20	C40 -8 (Reminder: An AG will fit an AF)	OIL
G41D735359G3 or G41D735668G1	SET GEARCASE	AG	83:20	C40 -8 (Reminder: An AG will fit an AF)	OIL
G41D735347P2	UPPER GEARCASE	AH	83:20	C40 -CW, GE DASH 9'S	OIL
G41D735340P6 G41D735797P1	LOWER GEARCASE	AH	83:20	C40 -CW, GE DASH 9'S	OIL
G41D735315G3	SET GEARCASE	AH	83:20	C40 -CW, GE DASH 9'S	OIL
G41D730230G1 or G3 G970X21 G41D732863G3	SET GEARCASE	761	NARROW GAGE	Set's Only 1 1/2" - 6 thread w/ caps Sets Only 1"-8 thread w/ caps	GREASE
G41D735642P1	LOWER GEARCASE AMTRAK	AH	83:20	P40 - P42	OIL
G41D735644P1	UPPER GEARCASE AMTRAK	AH	83:20	P40 - P42	OIL
G41D735428G1	UPPER GEARCASE	761	NARROW GAGE	A22, 23, or 24	GREASE
G41D735428G2	LOWER GEARCASE	761	NARROW GAGE	A22, 23, or 24	GREASE
G41D736089G3	UPPER GEARCASE	C44			OIL
G41D736091G1	LOWER GEARCASE	C44			OIL
G41D7366091G5	LOWER GEARCASE	C44		SUPERCEDED BY 41D7366091G6	OIL
G41B538243P1 G41AA230409G3	GEARCASE CAP	BASE MADE WITH GALVANIZED STEEL WITH RUBBER SEAL			



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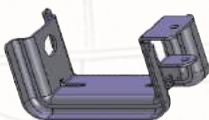
## GEARCASE SEALS

Complete Line of Gearcase Seals, Wicks Lubricators, Caps and Dust Guards

E40017436  
Enhanced Cap



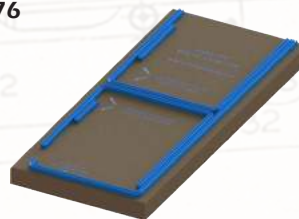
E8126036 - Strap



E9535375 - E9535376  
Enhanced Seal



E40061419 - Seal Kit



E8277771  
Wicks



E9569938 - Grease



E40012790  
Seal



E8407506  
Seal



E8322027



E40017457  
Honey Oil



Full line of Huck  
Bolts



8032750 Locknut

8322026 Washer

108659 Cotter Pin

40007174  
Pinion Seal



## OIL CAP ENHANCEMENT

Redesigned Location and Seal Material to Stop Leaks.

Traction Motors  
Journal Box



Seal Repositioned under Head  
for Secured Seal.

Upgrade YellowSeal™

Higher Volume Lower Cost!

E9333024  
E9324109  
G41A238534P1

3/4" Yellow  
1" White  
3/4" White

See Page 123 for Our  
Locomotive Hyatt/GG  
Wheel Sets



See Page 92 for Premium  
Brass Support Bearings



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## TRUCK PARTS

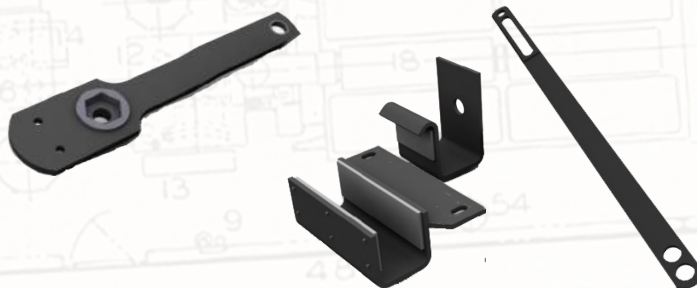
### LEVERS - HANGERS & BRAKE RELATED PARTS

Complete Line of Components for Locomotive Trucks



<b>PowerRail P/N</b>	<b>Application</b>	<b>PowerRail P/N</b>	<b>Application</b>
E9500246	Brake	E40033871	Guide
E9500247	Brake	E8441548	Guide
E8160062	Brake	E40033873	Guide
E9098135	Brake	E8466631	Guide
E8044914	Brake	E8157951	Hanger
E8044915	Brake	E8389488	Hanger Inside
E8107338	Brake	E8044912	Hanger Inside
E8107339	Brake	E8441551	Hanger Inside
E8044911	Brake	E8401941	Hanger Outside
E8157951	Brake Hanger	E8044911	Hanger Outside
E8099416	Connection Strap, OE or Modified 42" Wheel	E8475110	Hanger Outside
		E8160062	Inside Yoke Brake
E8465284	Connection Strap, OE or Modified 42" Wheel	E8334026	Outside Yoke Brake
		E8334027	Outside Yoke Brake
		E8044913	Strap
E40034696	Cylinder	E8228267	Strap
E40034694	Cylinder	E8228266	Strap
E40035166	Cylinder		
E40035154	Cylinder		

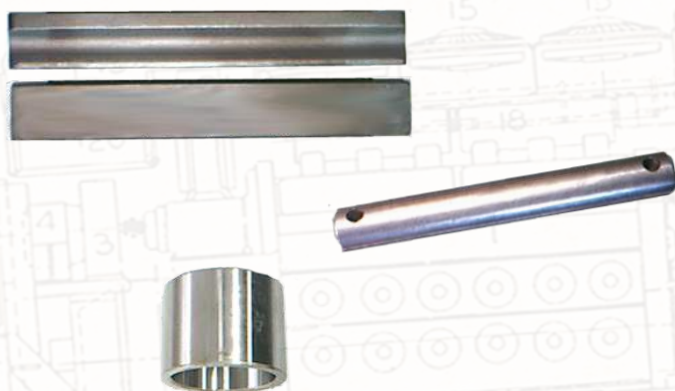
<b>PowerRail P/N</b>	<b>Application</b>
E8048966	SW Trucks - Inner Ring
E8025096	SW Trucks - Outer Ring
E8024365	SW Trucks - Traction Motor Air Duct
E8277771	SW Trucks - Wick Assembly
E8104189	OE Holder, Suspension Unit
E8339952	OE Suspension Pack
E9334248	SW/GP/SD Trucks - Traction Motor Suspension Assembly
E9324108	SW/GP/SD Trucks - Pedestal Liner
E8044697	GP Trucks - Upper Swing Hanger Bearing Block
E8044698	GP Trucks - Lower Swing Hanger Bearing Block



### SWING HANGERS

Complete Line of "True Blue™" Unit Exchange or NEW Swing Hangers and related parts.

<b>PowerRail P/N</b>	<b>Description</b>
E8044697	Upper Bearing Block
E8044698	Lower Bearing Block
E8068056	Bushing 2.250" x 2.754" x 1.375"
E8102087	Bushing 2.250" x 2.750" x 2.250"
E8309537	Bushing 2.250" x 2.758" x 2.250"
E8309538	Bushing 2.250" x 2.780" x 2.250"
E8309539	Bushing 2.250" x 2.800" x 2.250"
E8078796	Pin Drilled Both Ends 1 1/2" x 10"





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## TREADS, HANDRAIL AND RAILING

Complete Line of FRA Approved Treads, Grab Irons.  
Steps, Handrails and Car Body Parts

**\*Below is a Sampling of Parts**

PowerRail P/N	Description	Comment
E9315313	Tread	GP38
E8342231	Tread	GP38/SD40
E8342230	Tread	GP38/SD40
E9319219	Tread	SD40
E9319220	Tread	SD40
E9315311	Tread	GP38
G41C629248P1	Tread	Dash 7
G41A242229P2	Tread	Dash 7
PRD16184535	Wide Tread	SD40-2



**E8123974 Awning 55" Long SD60 SD 70**

**E9334250 Awning 55 5/8" Long SD60 SD 70**

**Note: We also Carry Safety Chain  
#E8189774 and Breakaway Link 60212**

## U TUBES

Complete Line of U Tube Housings



PowerRail P/N	Application
E40006120	D87
E40006950	B87BTR
E40035256	D90BTR
E40045090	SD70AC
E40053326	SD90

GE-Style U Tubes available upon request

## WEAR PARTS - SHIMS AND SPACERS

Complete Line of Shims and Spacers



PowerRail P/N	Description
G41A210731P4	.062" Shim Air Compressor
40014450	.031" Shim Bearing Flange For Combo's
8061581	.015" Shim Bearing to Bracket
8083559	.020" Shim Bearing Plate
8156922	Shim 11 Gauge
8159285	.063" Main Generator Mounting
8159286	.125" Generator Mounting
8178082	.004" Shim Roots Blower
8194923	.0625" Frame Cover and Support
8348670	AR10 24 Gauge.
8348671	.014" AR10 Shim
8478477	.010" Shim Axle Cap



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## **TURBOCHARGER**

Complete Line of New & **"True Blue™"**

Unit Exchange TurboChargers.

We also offer a Complete line of Components  
including Spring Drive Gear — Clutch Assemblies,  
Turbo Screens, and other Related Parts



- **Class 1 Approved**
- **Quality Parts**
- **Quality Workmanship**
- **Experienced Staff**
- **Technical Support**
- **Competitive Price**
- **Full Line Support Products**



<b>PowerRail PN</b>	<b>Description</b>
E8296440	16cyl 567D3
E8333500	16cyl 567D3
E8358500	16cyl 645E3
E8368596	16cyl 645E3
E8410283	12cyl 645E3
E8413707	12cyl 645E3
E9338194	16cyl 645E3B
E9339283	16cyl 645E3B
E9511706	12cyl 645E3B

<b>PowerRail PN</b>	<b>Description</b>
E9524135	12cyl 645E3B
E9525597	16cyl 645E3B
E9543498	16cyl 645F3B
E9568355	16cyl 710G3
E9564960	16cyl 710G3
E40029631	16cyl 710G3A/B
E40031530	16cyl 710G3A/B
E40053534	16cyl 710G3C
E40059071	16cyl 710G3C



**E9502409**  
**Eductor Tube Outer**  
**E9502412**  
**Eductor Tube Inner**



**PRD E9557143**  
**and E40155024 High Heat**  
**Turbo Screen - New or UX**  
**Starburst Design**



## **645 & 710 Spring Drives**



E9515331	Spring Drive Gear High Capacity 16:8 to 1
E9515338	Spring Drive Gear Standard 18:1 ratio
E9538148	Spring Drive Gear Standard 18:1 ratio
E9538149	Spring Drive Gear High Capacity 16:8 to 1

E40001044	16cyl 710 Clutch UX
E40013863	16cyl 710 Clutch UX
E40028648	12cyl 710 Clutch
E40052862	20cyl 710 Clutch



**E40089234**  
**Heat Shield**



**E40034637 Air Duct**  
**to Turbo Gasket**



A POWERRAIL  
ENHANCED PRODUCT



**Aftercooler Ducts**  
**New or Unit Exchange**



**POWERAIL**  
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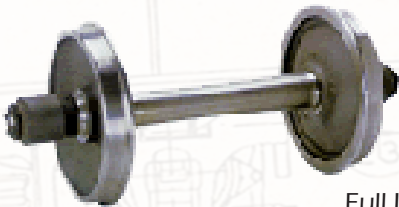


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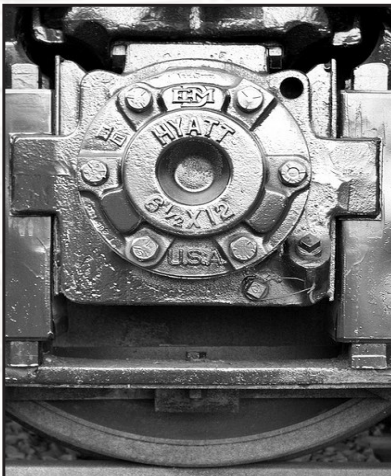


## WHEELSETS AND COMBOS

Complete Line of New & **"True Blue™"**  
Unit Exchange Axles, Wheels, Wheelsets and Combos



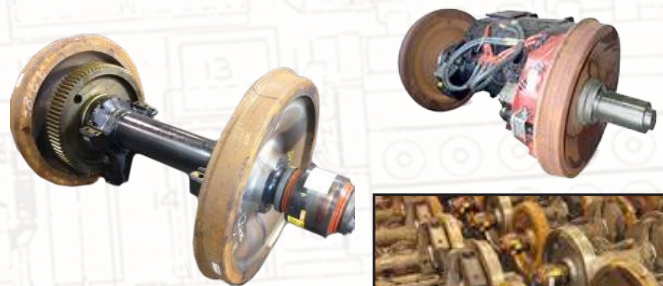
Full Line Of New and Remanufactured  
Axles and Wheels



Full Line Of New  
and Remanufactured  
Wheelsets Hyatt  
and GG Styles



Full Line Of New and Remanufactured  
U-Tube Style Wheelsets and Traction Motor Combos





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## WIPER MOTORS & BLADES

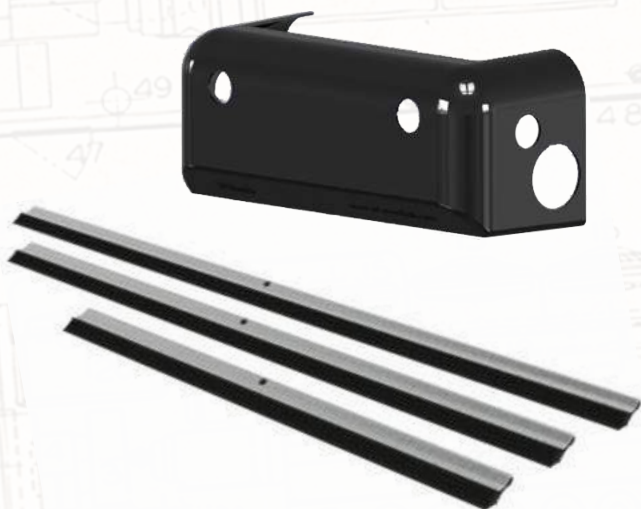
Complete Line of Air Operated Motors, Arms and Blades

**\*New and Unit Exchange**



<b>PowerRail P/N</b>	<b>Description</b>	<b>Comment</b>
E9088065	Wiper Arm	11"
E8138424	Wiper Arm	12"
E40078283	Wiper Arm	SD70 18"
G84B100880P4	Wiper Arm	18"
G84B513412P	Wiper Arm	18"
E9319906	Wiper Arm	20"
E8148136	Wiper Arm	21"
E40056292	Wiper Arm - Heavy Duty	SD70 13 1/2"
E40056293	Wiper Arm - Heavy Duty	SD70 16"
C-1100-11	Wiper Blade	11"
E8351298	Wiper Blade	12"
E8151270	Wiper Blade	13"
E8037312	Wiper Blade	14"
E8128733	Wiper Blade	15"

<b>PowerRail P/N</b>	<b>Description</b>	<b>Comment</b>
C-1100-17	Wiper Blade	17"
C-1100-18	Wiper Blade	18"
E8407810	Wiper Blade	20"
E10591173	Wiper Hose	8"
E10581390	Wiper Hose	28"
E8155981	Wiper Hose Assy	20 1/4"
E8227244	Wiper Motor	100° Sweep
E8369430	Wiper Motor	50°, 3 3/4" Shaft
E8479945	Wiper Motor	30° Sweep
E8371406	Wiper Motor	50°
E8371408	Wiper Motor	70°
E9506600	Wiper Motor	90° Sweep
E9506601	Wiper Motor - Door	50° Sweep
E9506606	Wiper Motor Cover	—
E8136957	Wiper Motor Repair Kit	40°, 60°, 70°, 80°
E8295087	Wiper Valve	T-Knob
E9316239	Wiper Valve	7/8" Hex





**EMD®  
DIESEL ENGINE BOLT TORQUES  
(Metric & English)**

*Note: When torque values are listed as "initial" and "final," torquing procedures in the engine manual MUST be followed.*

<b>TOP DECK</b>	<b>N•m</b>	<b>Ft-Lbs</b>
Camshaft stubshaft bearing bracket bolts-		
5/8" hex head .....	285	210
1/2" socket head .....	102	75
Cylinder head crab nuts (studs & nuts)*		
Initial .....	407	300
Final (except 645EC engines) .....	2440	1800
Final (645EC engines) .....	3254	2400
All engines w/heavy crab plates .....	3254	2400
Injector crab nuts .....	68	50
Cylinder head-to-liner nuts*		
Initial .....	95	70
Final .....	325	240
Top deck head frame bolts		
280m bolts with captive		
lockwasher & plain washer .....	41	30
300m bolts with hardened washers .....	54	40
Overspeed trip mechanism .....	32	24
Injector fuel lines .....	54	40
Camshaft bearing blocks .....	43	32
Rocker arm shaft nuts*		
Initial .....	203	150
Final .....	407	300
Fuel manifold blocks .....	54	40
Cylinder test valve packing nut .....	88	65
Water outlet elbow-to-head bolts .....	41	30
Exhaust manifold-to-crankcase**		
Initial .....	68	50
Final .....	176	130
(recheck after 6 months)		
Exhaust manifold connector bolts .....	108	80
(recheck after 6 months)		
Exhaust manifold inspection cover		
(when equipped) .....	108	80

<b>ACCESSORY END</b>		
Accessory drive housing-to-crankcase & oil pan	88	65
Overspeed trip housing-to-crankcase .....	88	65
Water pump mounting bolts .....	88	65
Water pump elbows .....	88	65
Scavenging oil pump mounting bolts .....	88	65
Scavenging oil pump elbows .....	88	65
Lube oil pump mounting bolts .....	88	65

Lube oil pump elbows .....	88	65
Oil strainer housing mounting bolts .....	88	65
Governor drive housing mounting bolts .....	88	65
Governor-to-drive housing .....	88	65
Overspeed trip cover-to-overspeed trip housing	41	30
Fuel manifolds-to-filter .....	47	35
Oil strainer elbows-to-strainer housing .....	54	40
Accessory drive oil seal cover .....	54	40
Accessory drive coupling		
Single retaining bolt design		
Initial .....	136	100
Final .....	678	500
Three retaining bolt design .....	393	290
Accessory drive flange locking spring bolt .....	88	65
Governor drive gear assembly		
Stubshaft-to-crankcase .....	102	75
Stubshaft dowel bolts .....	23	17
Oil jumper-to-stubshaft .....	47	35
Retainer plate-to-stubshaft .....	47	35
Governor drive flange-to-drive gear .....	47	35

<b>CAMSHAFT DRIVE END</b>		
Piston cooling manifold flange-to-crankcase .....	37	27
Idler gear stubshaft bracket-to-crankcase		
1/2" .....	122	90
3/8" .....	37	27
5/16" (dowel bolts) .....	23	17
No. 1 idler gear thrust plate		
1/2" (to stubshaft) .....	102	75
5/8" (to crankshaft) .....	251	185
Camshaft drive gear and counter-weight-to-camshaft		
1/2" .....	122	90
5/16" (dowel bolts) .....	23	17

	<b>N•m</b>	<b>Ft-Lbs</b>
Camshaft drive housing-to-crankcase .....	88	65
Oil manifold-to-oil manifold .....	50	37
Oil manifold-to-crankcase .....	43	32
Oil slinger-to-crank shaft gear .....	23	17
Oil retainer-to-camshaft drive housing .....	41	30

<b>TURBO ENGINES ONLY</b>		
Turbocharger mounting bolts-		
3/4" .....	238	175
1/2" .....	88	65
Air ducts-to-turbocharger .....	81	60
Air ducts-to-crankcase .....	88	65
Auxiliary drive-to-turbocharger		
3/8" .....	32	24
1/2" .....	88	65
Aftercooler-to-air duct .....	61	45



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Aftercooler support pad bolts .....	176	130
Turbocharger-to-manifold** .....	122	90
Water piping-to-aftercooler .....	47	35
Water piping-to-engine .....	47	35
Oil separator bolts, attaching .....	122	90
Oil separator expansion joint.....	35	25
Camshaft drive housing-to-crankcase lockwire anchor bolts .....	88	65

#### **BLOWER ENGINES ONLY**

Blower rotor shaft nut .....	678	500
Blower timing gear cover nut.....	47	35
Blower end plate-to-housing nuts.....	88	65
Blower support-to-crankcase.....	238	175
Blower-to-support.....	88	65
Blower drain lines .....	88	65
Auxiliary drive housing-to-crankcase .....	238	175
Blower drive gear stubshaft bracket-to-crankcase .....	122	90
Camshaft drive gear cover-to-housing.....	88	65

#### **CRANKCASE AND OIL PAN**

Main bearing nuts*		
Initial .....	475-	350-
.....	542	400
Final .....	1017	750
Crankcase-to-oil pan		
Initial .....	136	100
Final .....	610	450
Connecting rod-to-piston pin* .....	610	450
Piston pin retainer bolts*		
1/4" Bolts .....	16.2	12
5/16" Bolts .....	38	28
Basket-to connecting rod*		
Initial .....	13	10
Final .....	258	190
Connecting rod basket .....	102	75
Piston cooling oil pipe bolts.....	27	20
Water jumper-to-liner .....	41	30
Water jumper saddle strap nuts.....	20	15
Damper/balancer-to-crankshaft.....	678	500
Bolt-on crankshaft stubshaft*		
(where applicable .....	678	500
Bolt-on crankshaft stubshaft retention bolts.....	81	60
Accessory drive gear to crankshaft*		
7/8" .....	678	500
3/4" .....	407	300
5/8" .....	217	160
Accessory drive gear oil slinger .....	33	24
Coupling disc-to-crankshaft		
8, 12, & 16 cyl.....	2440	1800

20 cyl .....	1830	1350
Coupling disc rim bolts.....	400	295
Handhole cover bolts .....	27-41	20-30
Engine mounting bolts.....	617	455
Engine mounting bolts w/sleeves.....	881	650

\*Lubricate with Texaco Threadtex No. 2303

\*\*Lubricate with Fel-Pro C5A or equivalent

### **MODEL 645 (BLOWER) ENGINE-SYSTEM TEMPERATURES AND PRESSURES**

#### **Lubrication Oil System**

Pressure At Normal Operating Temperature	
At Governor Connection (Nominal) .....	40 - 70 psi
Temperature	
T1, To Engine (from cooler) .....	175°-200°F
T2, From Engine (to cooler) .....	195°-200°F
T, Temperature Differential .....	20°-25°F
Alarm Settings	
ELOS, Engine Lube Oil Switch	
Rated Speed .....	17 - 21 psi
Idle Speed .....	5 - 9 psi
ELOT, Engine Lube High Temperature	
Switch (into engine) .....	220°F

#### **Fresh Water System**

Pressure Rise Across Fresh Water Pump At 900 RPM	
(minimum 0 psi at pump inlet)	
8 Cylinder .....	45 ± 3 psi
12 Cylinder .....	53 ± 3 psi
16 Cylinder .....	45 ± 3 psi
Temperature	
T1, To Engine .....	165°-180°F
T2, From Engine .....	175°-190°F
T, Temperature Differential .....	8°-15°F
T3, From Fresh Water Cooler	
To Lube Oil Cooler .....	150°-165°F
Alarm Setting	
EWT, Engine Water Temperature	
(from engine) .....	200°F

#### **Raw Water System**

Pressure Rise Across Raw Water Pump At 900 RPM	
(maximum suction-2 psi at pump inlet)	
With Gear Cooler	
8 Cylinder .....	41 ± 2 psi
12 Cylinder .....	43 ± 2 psi
16 Cylinder .....	43 ± 2 psi
Without Gear Cooler	
8 Cylinder .....	46.5 ± 2 psi
12 Cylinder .....	47 ± 2 psi
16 Cylinder .....	47 ± 2 psi





#### Design Temperature

T1, To Fresh Water Cooler (maximum)	85°F
T2-T1, Raw Water Temperature Rise Across Fresh Water Cooler	
8 Cylinder	41 ± 2 psi
12 Cylinder	43 ± 2 psi
16 Cylinder	43 ± 2 psi

#### Fuel System

Pressure	
G1, at Filter Outlet (to engine)	12 - 25 psi

### MODEL 645 (TURBO) ENGINE-SYSTEM TEMPERATURES AND PRESSURES

#### Lubrication Oil System

Pressure At Normal Operating Temperature	
At Governor Connection (Nominal)	60 - 100 psi
Temperature	
T1, To Engine (from cooler)	175°-195°F
T2, From Engine (to cooler)	195°-220°F
T, Temperature Differential	20°-25°F
Alarm Settings	
ELoS, Engine Lube Oil Switch	
Rated Speed	26 - 30 psi
Idle Speed	10 - 14 psi
LO2, Soak Back Pump Low Oil Pressure (rising pressure)	10 psi
ELOT, Engine Lube High Temperature Switch (into engine)	220°F

#### Fresh Water System

Pressure Rise Across Fresh Water Pump At 900 RPM (minimum 0 psi at pump inlet)	
8 Cylinder	47 ± 3 psi
12 Cylinder	48 ± 3 psi
16 Cylinder	55 ± 3 psi
20 Cylinder	55 ± 3 psi
Temperature	
T1, To Engine	165°-180°F
T2, From Engine	175°-190°F
T, Temperature Differential	8°-15°F
T3, From Fresh Water Cooler To Lube Oil Cooler	150°-165°F
Alarm Setting	
EWT, Engine Water Temperature (from engine)	200°F
Temperature	
T, Oil to Water	25°F Max.

#### Raw Water System

Pressure Rise Across Raw Water Pump At 900 RPM (maximum suction-2 psi at pump inlet)	
With Gear Cooler	
8 Cylinder	43 ± 2 psi
12 Cylinder	43 ± 2 psi
16 Cylinder	32 ± 2 psi
20 Cylinder	32 ± 2 psi
Without Gear Cooler	
8 Cylinder	47 ± 2 psi
12 Cylinder	47 ± 2 psi
16 Cylinder	41 ± 2 psi
20 Cylinder	32 ± 2 psi
Design Temperature	
T1, To Fresh Water Cooler (maximum)	85°F
T2-T1, Raw Water Temperature Rise Across Fresh Water Cooler	
8 Cylinder	7°-13°F
12 Cylinder	11°-17°F
16 Cylinder	13°-19°F
20 Cylinder	17°-23°F

#### Fuel System

G1, at Filter Outlet (to engine)	12 - 25 psi
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**NOTES:**



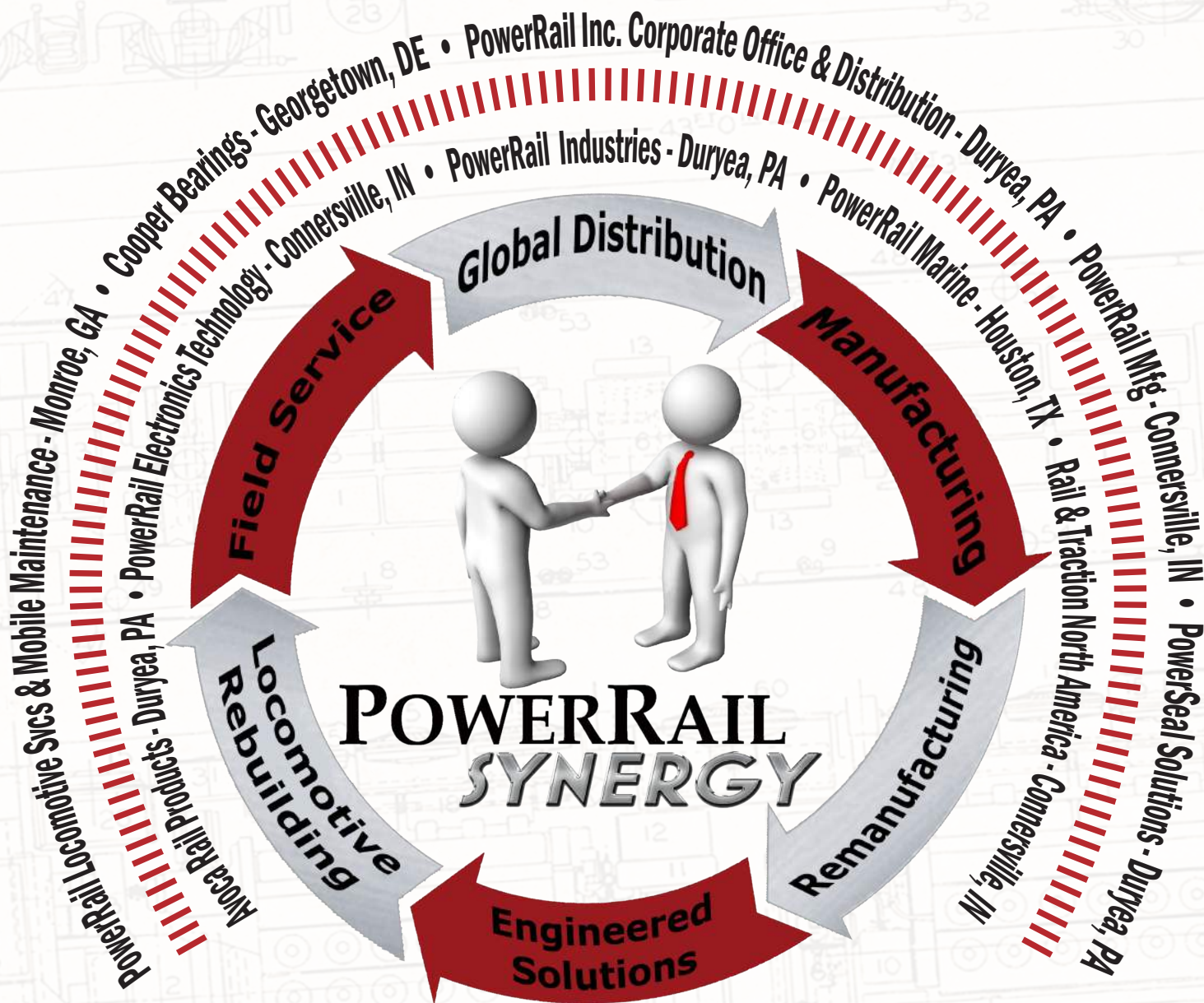
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