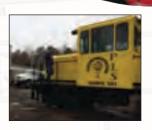
POWERRAIL LOCOMOTIVE SERVICES





PowerRail Locomotive Services 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, Engine and/or Engine Component Change Out. We have also branched out with PowerRail Mobile Services which will provide the End Customer Mobile Services on site.









PowerRail Mobile Maintenance



	-								
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Disclaimer *See Back Cover for Full Disclaimer.

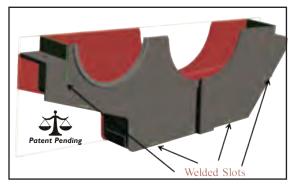




CERTIFIED

The purpose of this section is to show the wide offering of Products that have been Enhanced for the sole purpose of offering a customer a better product with Cost Savings, Reliability and Quality in mind. This section represents a sampling of our broad line and please feel free to visit our website to view the latest In design and technology.

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

0

- Full Line of <u>PowerLok Oil & Grease GearCases</u>
- Less Inventory Offering Both Designs

New Combination Oil & Grease GearCases

<u>AND</u>

Original Design Oil Or Grease GearCases

- Reduction in Hazard Material Spills
 - Reduction in Down Time Due to Small Derailments
- Increased Reliability and Service Life
 - Our New CNC Robotic Welder provides stronger welds vs. that of contemporary welds
 - Our New CNC Robotic Welder provides less heat which lowers fatigue typically found on contemporary welds

Enhanced Strength Patented Design Drastically Reduces Derailment Damage

Oil Cap Plug

Grease Cap



We Also Offer Original Design Grease or Oil GearCases - PLOCK Series - Call Our Team for Pricing and Availability!



Safety FRA Halogen Injury & Shatter Protection



Product Description

PowerRail Distribution Incorporated is pleased to offer the New "FRA Safety Halogen" Shatter Resistant Teflon Clear Coat Halogen PAR56. Our Third Generation safety bulb offers a "Teflon Clear Coat" layer of protection should the bulb break. When bulb breakage occurs, virtually all of the debris will remain inside the protective coating. These bulbs provide the ultimate protection in the event of impact, accidental dropping or thermal shock. It is designed for high temperature use (up to 500° F - 260° C). This technology offers reliability, longevity, reduced maintenance costs and is widely used in the Aviation Industry for its resistance to extreme climatic and vibration condiditions which result in short life expectancy and frequent lamp change-outs.

In coupling Safety Protection with Long Life 200,000 Candela Output Performance, the bulb meets all FRA requirements and offers the Railroad Industry the latest technology in Halogen design and reliability.

Advantages:

- Rated life up to 4,000 hours vs. 500 hours for incandescent bulb.*
- 200,000 Candela 350 Watt output Ditchlight (50 watt energy savings).
- 200,000 Candela 200 Watt output Headlight
- Teflon coated glass to protect against shatter injury
- Superior filament design and support for superior reliability

PowerRail Part Number

FRA200PAR56-SAFETY - FRA350PAR56-SAFETY





CERTIFIED

Smart LED RS50A19LED-AAR-6W

LE

AAR M-1003 Certified

Replaces OEM references:

- · 25A19 · 8090358
- 50A19 8094886
- 8080404 41A210382P2

PowerRail Distribution Company is pleased to offer the New "SMART LED" LED Bulb which Meets **New AAR Spec S-5515**.

This 6 Watt LED utilizes the Latest in **CREE LED** Technology that truly gives a total 270 to 320 Degree Beam Spread vs.Typical 180 Spread and 545 Lumens High Clean Output Brightness.

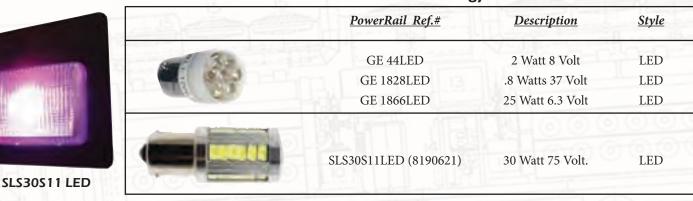
Besides offering a true cost savings LED, this bulb replaces (2) Two SKU's typically used in the rail industry.

LED Advantages:

- Rated Life 50,000 Hours vs. 1,000 of Standard Bulb. (50 to 1 Life)
- Reduced Generator Voltage Draw provides Fuel Savings
- No EMI Interference
- Reverse Polarity Protected
- Operates on Voltage Range of 50 Vdc to 80Vdc
- No Filaments or Glass to Break (Enhanced Protective Globe).
- Reduced Labor and Maintenance Labor Costs.
- Eliminates FRA Infringements Associate With Standard Bulbs.
- Bulb does NOT operate on AC Voltage
- TOTALLY SEALED with Heat Sink.



Other Related Technology Bulbs



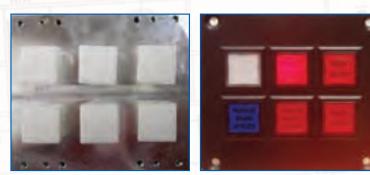


ENHANCEMENT PRD16184541 6-Button Switch

ENHANCEMENT 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
- Polycarbonate Lens



Old Style

New Style

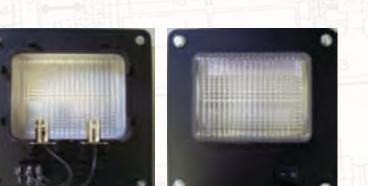
AAR M-1003 Certified

- This System was Designed to Meet the Vibration and Electrical Requirements of Newer Generation Locomotives Which Utilizes Electronic/Computer Enhanced Switches for Reliability.
- The Original OEM Reference 8484375 uses Mechanical Style Switches with Resistors..
- Exact TerminalsExact Drop In

*Replaces OEM Ref# 8484375

SLS30S11LED - 100,000 Life Hours Full 360 Degree Viewing Angle

- Sealed Unit
- Custom Silk Screen Button Labels



30S11 Standard Filament Style 30S11PREMIUM Long Life Filament Style

PowerRail Part E9096838 Single Lamp - E9502221 Dual Lamp OR Enhanced Design E9502221PRD Dual Lamp with One or Both Bulbs On Off Option



- 17 -

41A205337ABP2 LED Walkway Lights

NEW

Universal Ditch Light Housing

We also Offer the Ditch Light Housing OEM References 41B549606P1 and 41B549606P3

AAR M-1003

PowerRail PRD16184911

Universal Ditch Light Housing - Replaces many SKU's

- 8650814 / 40043668 2 Position Door Latch Flush Mount
- 40052369 / 40069142 4 Position Door Latch with Flush Mount

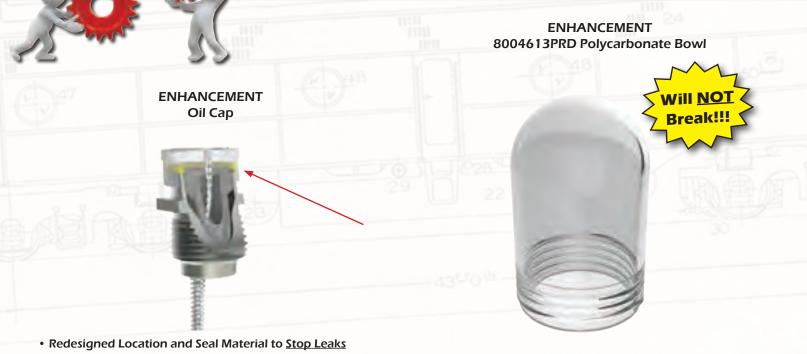
Benefits:

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



We also Offer Fabricated Light Housings





- Seal Repositioned under Head
- Upgrade YellowSeal[™] O Ring

E9333024 E9324109 G41A2385 34P1 3/4" Yellow 1" White 3/4" White

ENHANCEMENT 8104055PRD Gasket Fuel Bowl Site Glass

Genuine Viton® Seal Compounded For Diesel Fuel

- 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



• Safety Enhancement WILL NOT SHATTER (like glass)

AAR M-1003

- Exceeds OEM Specifications
- Polycarbonate Material
- High Heat Applications

ENHANCEMENT PRD16184502 Oil Sampling Valve 1/4 NPT thread





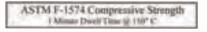
PowerRail Distribution Inc. is pleased to offer our New Generation premium gasket material to stop <u>ALL leaks in all Locomotive and Marine applications.</u>

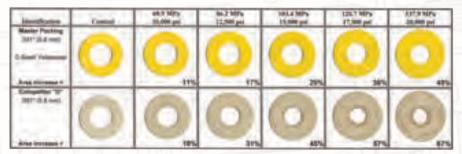
C-Swell YellowSeal™ gasket material is an OEM approved material which was precision enhanced to offer a Controlled Swell. This controlled swell expands when it comes in contact with the media it is sealing. The controlled swell allows the gasket material to fill voids and imperfections on component flanges and sealing surfaces, and literally will stop leaks, even in the most demanding applications.

C-Swell YellowSeal™ is a highly compressed, solvent free, Hydro-Fused industrial OEM gasket material manufactured exclusively for the Rail and Marine industries. Documented ASTM testing has confirmed that **C-Swell YellowSeal™** material offers excellent bolt torque retention, crush resistance, and resist extrusion over a longer period of time than existing competing gasket materials. Additionally, **C-Swell** offers the end user a material that has a long shelf life.

C-Swell YellowSeal™ gaskets will stop leaks, reduce maintenance cost and most of all; lead us to cleaner and safer locomotives for us and our environment.







ASTM F-1574, is used to determine the compressive strength characteristics or crush-extrusion resistance of various gasket materials at an elevated temperature. All specimens shown below have been tested 300°F.

CERTIFIED

ASTM F-1574 Standard states in Significance and Use 4.1 "The compressive strength or crush-extrusion resistance of a gasket material is a major factor with regard to the selection of a given material for use in a

particular sealing application. The significance of the test method is based, in part, on the assumption that material, once it has been crushed or extruded, will no longer function as effectively as a seal. Two or more materials can be compared to determine differences in their resistance to compressive stress."



ENHANCEMENT YellowSeal™ Head to Liner Gasket

AAR M-1003

ENHANCEMENT Marman Seals - NEW VPS YellowSeal™ Material Technology!!!

- NEW CG2F Viton® Power Seal (VPS) offers Extended Life
- Viton F is <u>Superior for Oil & Fuel</u> Contamination
- Designed with VPS YellowSeal™ Material

SEE PAGE 65 FOR MARMAN SEALS



- 400 Series Stainless Low Expansion Rate for Extreme Heat
- NON Copper Coated Eliminates Oil Contamination
- Proprietary "F" Family High Grade Viton® VPS YellowSeal™
- Outperforms OEM Material for Durability & Life
- Collared I.D. Sealing Ring Stops Fractures
- Operating Temperatures Range From -30°F to 400°F
- Class 1 Approvals

*Replaces 8476400/9561067/40067459/40099569



ENHANCEMENT YellowSeal™ - Fuel Line Gasket





 VPS YellowSeal[™] Material for both Oil & Fuel Contamination
 Stop Fuel Leaks at the Injector and Manifold Connections

PowerRail Part# PRD16184063



ENHANCEMENT Head Seat Ring Technology

- Meets or Exceeds OEM Specifications on Metal Centrifugal Casting
- Enhanced Proprietary Viton® Compound
- <u>Enhanced / Redesigned</u> VPS Viton® profile for Ultimate Sealing
- Field Reports of reduced and/or elimination of "Engine Souping"



ENHANCEMENT Expansion Joints

• 6 Baffle Design reduces Harmonics that cause Fatigue

Replaces 8408985 & 8408987

ENHANCEMENT Water Elbow & Seal Part# E40110618 Seal for E8414444 Elbow ENHANCEMENT MODIFIED Expansion Joints Gaskets THERMASEAL for High Heat

AAR M-1003 Certified



 Increased Thickness for INCREASED Bolt Retention
 Special Graphite Filled with Proprietary filler to increase working temperatures of approx.1250 Degree F.

> Replaces 40026936 10" Expansion Joint 40026937 14" Expansion Joint 40055466 Exhaust Stack 40026939 Expansion Joint to Turbo 9571663 Exhaust Cover 710

PowerRail <u>Enhanced Big Foot</u> for all TOP DECK COVERS



E9087073BIG-CG2 - 8 & 16 Cyl Round Corner E9087074BIG-CG2 - 12 Cyl Round Corner E9087072BIG-CG2 - 20 Cyl Round Corner

BIG FOOT[™] silicone extrusion sits higher than any previous seals made for the upper deck covers.

- BIG FOOT[™] is easier to install into the groove with a slightly reduced profile that saves on both maintenance labor and downtime.
- Compresses without "squirm" around the corners insuring a tighter seal.



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

321 Stainless Steel

• 3 Ply Construction for Long Life

• Hydraulic Tested for Ensured Exhaust Flow

Frequency Tested for True Performance

Replaces Old Ref #9317972

- 22 -

ENHANCEMENT E8158536 Door Latch Assembly

CERTIFIED

ENHANCEMENT Cylinder Test Valves

> OEM Ref# 8048880 40036607

- 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

ENHANCEMENT

28 - 90 Volt DC Electronic Bell PowerRail Part# EBELL82 with 30 Ft Harness



- No Mechanical Wear Parts and NO Air Leaks
- Sound level: 85dB(A) at 50ft
- Adjustable Intensity and Loudness
- Weather Resistant Speaker
- 125 Rings per Minute
- Operating temperatures range from -40°F to 158°F



- Advanced Painting Method for Extended Life
- Passenger & Class 1 Approved
- We Offer Full Line of Carbody Parts
 - √ Treads √ Handrails
 - √ Grab Irons √Hinges
 - ✓ Door Latches ✓ Door Panels



ENHANCEMENT



COMPLETE System Part# PRD16184487 *Gasket System Included *Requires Wiring

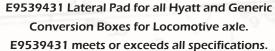


Inverter

- Heater & Air Conditioner for Switchers and Road Units. Durable, Competitively Priced and Easy Installation.
- 14" High 86 Lb A/C Low Profile
- 13,500 BTU Air Conditioner 13 Amp
- 5,600 BTU Heat Pump 16 Amp
- 2 Speed with Thermostat
- Center Cooling and Oscillating Rear Vent
- 74 Volt DC Inverter runs 85% Efficient with Extra Power for other 110 Volt Accessories
- Handles High Inrush Loads
- Extensive Electrical Protection



ENHANCEMENT Hyatt & Conversion Box Lateral Pad - E9539431 & PRD16184305



PRD16184305 Manufactured 1/8" lower to ease installation due to restraints and tight fits. This product also meets or exceeds all specifications.

*WE OFFER NEW GG BOXES!!!

New E9539650 EMD Style GG Boxes





AAR M-1003

PRD16184305 1/8" Thinner for **Ease of Installation**



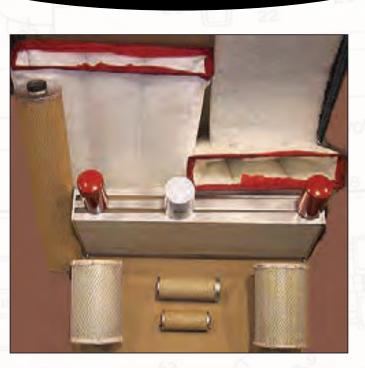






AAR M-1003

<u>PowerRail Flexi-Filter</u>



PowerRail Distribution Inc. is dedicated to provide alternate solutions to the Rail Road industry at competitive pricing. The newest addition to our family is "Flexi-Filter Line" which offers High Quality and Proven Performance.

- Benefits Include -

Purchase in <u>Any</u> Quantity at the Case Price which Eliminates Overstock and Reduces Inventory Cost \$\$\$
 <u>Customize Kits</u> Available Dedicated By Road Unit Number which eliminates need to stock any filters AT ALL.

PLEASE SEE PAGE 71 FOR ALL INFORMATION



Security Fastener System

Systems Available for K5LA or K3LA Air Horns

AAR M-1003 Certified

PowerRail has developed a special Security Fastener System that has multiple uses on a locomotive.

The system is used when extra secure fastening is required. These special fasteners have an anti-vibration effect for extra secure fastening.

An example of a typical application is for airchimes to prevent costly theft.

Our system replaces existing nuts and bolts. A special proprietary key, which is made exclusively for the railroad, secures the nuts and bolts in place

K3 Air Horn Kit PRD16184836 - K5 Air Horn Kit PRD16184480



A smooth head prevents wrenches from removing. Additionally, the head is oversized to spread its compressive load



The bottom of the head is serrated to latch onto a surface with incredible strength



Example of how well the fastener latches to the surface of the locomotive



The internal drive nut is cone shaped to resist vice grips and a compression ring fastens and assures security

PLEASE SEE PAGE 29 FOR AIR HORNS



AAR M-1003 CERTIFIED

ENHANCEMENT 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. This will enable the end user to have True Reliability and Dependability vs. cores that are of lesser performance. This Registered Trademark program demonstrates PowerRail's strive for continued Quality, Performance, Price and Service.





AIR BRAKE

Complete line of 26L Air Brake New and Unit Exchange



AAR M-1003 Certified

NEW YORK AIR BRAKE

OEM Ref. #
731033/93840
733328/97368
739010 / 558534
739007 / 558987
735742 / 557173
735743 / 557924
739006 / 557395
739000 / 557237
743490 / 562872
740408 / 562614
735432 / 554061
733328 / 97368

Portion Mounting Gaskets H5 Relay Air Valve J-1 Relay Valve F-1 Selector Valve MU-2A Valve Ouick 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



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



Packing Cup Replacements

EM Ref. #	Packing Cups
524478	2" Packing Cup
501863	3 1/2" Packing Cup
513750	5" Packing Cup
501530	6" Packing Cup
96556	8" Packing Cup
506957	9" Packing Cup
94800	10" Packing Cup
506018	11" Packing Cup
99882	12" Packing Cup



Single Car Tester



704609/572869/660999/ 8433293 - Angle Cock



3N1 Freight Valve



Air Hose - See Page 81-83



Brake Shoes - See Page 33







AIR HORNS

Complete Line Air Horns, Air Horn Covers and All Related Parts Manufactured by

MATHANAIRCHIME

PowerRail Ref #	De
K1LAR	
K3LR2	3 Ch
K5LAR24	5 Ch
WH-SA-110	Diaphra
WH-SA-112	Diaphra
E8185843	Rubber

Description 1 Chime 3 Chime Regular 5 Chime Regular iaphragm Kit 3 Chime iaphragm Kit 5 Chime ubber Mount for Roof



AIR CONDITIONER

Combination Heater & Air Conditioner

for Switchers and Road Units. Extremely Durable, Competitively Priced & Easy Installation.

- 14" High 86 lbs. A/C Low Profile
- 13,500 BTU Air Conditioner 13 Amp
- 5,600 BTU Heat Pump 16 Amp
- 2 Speed with Thermostat
- Center Cooling and Oscillating Rear Vent



We carry A Full Line of Horn Valves and other related parts.

AXLE GENERATORS & SENSORS, SPEED & TEMPERATURE

Heavy Duty Inverter

Complete Line of Axle Alternators, Transducers and Sensors.

E9319132
E40063597
E40121230
E40021658
E40029233
E40134844
E40063567
E40081692
G17MM24F1
G17MM24AF1
G17MM102F3
G17MM57H401
G17MM103
G41A296328AAP

PowerRail P/N

Description Axle Alternator

Sensor SD70 Sensor Speed SD70 Sensor Temperature Sensor Temperature Sensor Temperature Sensor Oil Sensor Radar K Band Axle Alternator Axle Alternator Traction Sensor Speed Sensor Traction Sensor Sensor Temperature





PowerRail Electronics offers a full line of R&R & Unit Exchange





ALTERNATORS

Complete Line of **True Blue**[™] Main Alternators & Exciters Re-Manufactured by **PowerRail — Independent Electric**



OEM OEM Ref. # EMD **AR10** EMD **AR11** EMD **AR15** EMD **AR16** EMD **AR17** EMD **TA17** EMD **AR20** GE GTA11 GE 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



















AIR BRAKE - BALL VALVES Air Brake Ball Valves for Locomotives



Teflon Seats

raea

PowerRail #

P8HHG31PR

P8EHG31PR

P8NS23PR

P8CH23PR

P8NS33PR

P8CH33PR

P16CH25PR

P16CH33PR

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

	OEM Ref#	OEM Ref#	Pipe Size	Porting	Vent		sition Closed	Plain Locking	Handle Length	
	8454218	308127	3/4"	Standard	7/32" B	90°	0°	Plain	1 3/4"	_
	8452907	307898	3/8"	Full	5/64" B	0° 9	9 0°	Plain	3 3/4"	
	8363508	307994	1 1/4"	Full		180°	90°	Locking	7 1/4"	
	8458815	308136	1 1/2"	Standard	-	0°	270°	Wrench	-	
	8354227	307985	1 1/4"	Standard	-	0°	90°	Plain	4"	
	8409024	307918	1 1/2"	Standard		0°	90°	Locking	5 1/8"	
	8351610	307936	1/2"	Full		90°	0°	Locking	3 1/8"	
	8419531	307974	1/2"	Full	3/32" B	90°	0°	Locking	3 1/8"	5
	8363655	307937	3/4"	Full	-	90°	0°	Locking	3 1/8"	
	8351609	307938	1"	Full	-	90°	0°	Locking	5 1/8"	
	9332599	581236	1 1/4"	Full	1/8" B	90°	0°	Locking	5 1/8"	
	8412325	307976	1"	Full	1/8" B-NPT	90°	0°	Locking	5 1/8"	
	8423393	307907	3/4"	Standard	1/4" B-NPT	90°	0°	Locking	3 1/8"	_
	8467908	307975	3/4"	Full	3/32" B	90°	0°	Locking	3 1/8"	
1	8451783	308114	1"	Full	1/8" B	0°	90°	Locking	5 1/8"	_
	8365217	308014	1 1/4"	Full	- //	270°	0°	Plain	5 13/16"	
	8351608	307958	3/8"	Full	-	90°	0°	Plain	1 1/2"	
	8463756	307986	1 1/2"	Standard	-	0°	90°	Plain	4"	
	10538664	307966	3/8"	Full	- 48	0°	90°	Locking Seale	ed 3 1/8"	
	9569220	572465	3/4"	Full		90°	0°	Plain	4 7/16"	
	8365777		1/2"	Standard	9 429	0°	90°	Plain	3 3/4"	
	40014305	572474	1 1/4"	Full	10	90°	0°	Locking	5 1/8"	

BATTERIES

Complete Line of Locomotive Switcher and Road Batteries Manufactured by

Surrette Battery

344

410

430

582

625

846

635

846



167

178

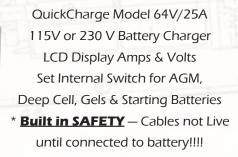
242

256

352

414

1609



3 Year Warranty 36 Lbs 8.5 x 10

QuickCharge Battery Chargers Chargers

QP6425	
QP3225	

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

Other Related Parts

E8197509 E8211044 E40015058 JUMPERRR31

Terminal Lug Battery Terminal Lug Battery Bolt Kit Cable Jumper Kit



8 Volt 4 Cell Series

27

27

28 1/4

28 1/4

28 1/4

28 1/4

33 2/3

43

32 Volt 16 Cell Series Unitized Series

282

336

352

477

512

694

521

694

20 HR 8 HR Length Width Height Wgt.

8

8

8 1/4

8 1/4

11 1/4

11 1/4

27

27

117/8

12 3/4

18 1/4

18 1/4

18 1/4

18 1/4

20

20 1/2 1238





Version

BEARINGS

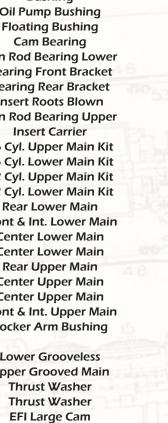
Complete Line of Engine Bearings Manufactured by Miba/Federal





Miha

OEM	OEM Ref. #	Description
EMD	8028006	Thrust Bearing Collar
EMD	8028419	Thrust Bearing Collar
EMD	8029461	Bushing
EMD	8029491	Oil Pump Bushing
EMD	8068624	Floating Bushing
EMD	8071176	Cam Bearing
EMD	8136114	Con Rod Bearing Lower
EMD	8237900	Bearing Front Bracket
EMD	8253825	Bearing Rear Bracket
EMD	8341192	Insert Roots Blown
EMD	8354118	Con Rod Bearing Upper
EMD	8361565	Insert Carrier
EMD	8452186	16 Cyl. Upper Main Kit
EMD	8452210	16 Cyl. Lower Main Kit
EMD	8455081	12 Cyl. Upper Main Kit
EMD	8455083	12 Cyl. Lower Main Kit
EMD	8455665	Rear Lower Main
EMD	8455666	Front & Int. Lower Main
EMD	8455667	Center Lower Main
EMD	8455668	Center Lower Main
EMD	8455844	Rear Upper Main
EMD	8455850	Center Upper Main
EMD	8455856	Center Upper Main
EMD	8455862	Front & Int. Upper Main
EMD	9571921	Rocker Arm Bushing
GE	114X1150	Lower Grooveless
GE	114X1103-1	Upper Grooved Main
GE	114X1111-4	Thrust Washer
GE	114X1127-3	Thrust Washer
GE	116X1184	EFI Large Cam
GE	117X1028-2	Articulated Rod
GE	117X1045-2	Upper & Lower Con Rod
GE	117X1050-1	Grooveless Con Rod
GE	117X1070	Upper Grooveless Con Rod
GE	117X1075	Lower Grooveless Con Rod
GE	142X1019	Standard Piston Pin Bushing
GE	142X1042	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!!!

<u>OEM</u>	PowerRail#	Description
EMD	E8251349SAFETY	Independent Brake
EMD	E8204980SAFETY	Reverser Handle Safety
EMD	E8269348	Independent Brake - Offset
EMD	E8495188	Independent Brake - Offset
EMD	E9550359BLK	26C Automatic Plastic Safety Version
EMD	E9550359	26C Automatic Steel Construction
GE	G84B512767P1	Reverser Handle
GE	G41B557247G1	Reverser Handle

BRAKE PRODUCTS

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

PowerRail P/N	Description	Comment
E8151703	Brake Head	OE Style
E8160059	Brake Head	GP OE
E8160060	Brake Head	OE Style
E8235906	Brake Head	OE Style
E8242785	Brake Head	SW/ Trucks
E8385297	Brake Head	OE or Canted Style
E8388332	Brake Head	OE or Canted Style
G41A210602P2	Brake Shoe Key	13″
E8101930	Brake Shoe Key	14″
E9501303	Brake Shoe Key	15″
E8100136	Brake Shoe Key	16″
E8101977	Brake Shoe Key	20″





AAR M-1003 Certified

BRAKE SHOES

Complete line of 26L Air Brake New and Unit Exchange



NEW YORK AIR BRAKE

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

We offer both a complete line of High and Low Friction





BRAKES - HANDWHEEL & RATCHET Complete Line of Wheel and Ratchet Style Handbrakes

PowerRail	Model	Dia	<u>O.A.</u>	B.H. LF	<u>End</u> 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
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

BUMPERS CAB - SAFETY HEAD

Complete Line of Cab Safety Bumper Protection

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

*(Partial Listing of Common Bumpers) **BRUSH 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.	Į
G998X67 G998X90	Fuel Pump	
G149X1011-1 G149X1051	Fuel Pump	
G2X4460	Heater	ł
G6727520P1	Aux. Gen.	
641A239329P2	GTA11 Alternator for Steel Ring	
G221F223P1 G221F234P1	Fuel Pump	+++++
	*Many O	th

Ħ	PowerRail P/N	Application
	5020700/	D12-D25
Ħ	E8307806	Main Gen.
Ħ	32	D14/D16
Ħ	E8413190	Main Gen.
	E8330994 - Old	D32
∃	E8417868 - New	Main Gen.
\blacksquare	E9322054	D27-D57 TM
Ħ	2 wafer	
	E9322058 3 wafer	D77-D78 TM
Ħ	E40070976 5/8 x 2	With Insulation
Ħ	E40047198	D87 24/TM
Ħ	3/4 x 1 1/2	D87 16/TM
	E8078488	Fuel Pump
	E9569980	Cab Heaters
	E1906989	Starter
Ħ	G41A330412P2	Alternator
Ħ	C4105270(201	752E8
∃	G41B537963P1	TM
	G41B535803P3	752AF & AG TM
	G149X1051-1	Cab Heater Motor

*Many Others Available

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









BRUSHHOLDERS Complete Line Of New And Unit Exchange Brushholders



BULBS
Complete Line of Premium Grade Light Bulbs.
We offer a full line of Filament,
LED and New FRA Safety Halogen
and 50A19 Rough Service LED

PowerRail P/N	Holder Application	<u>Brush Size</u>
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

Pow	erRail Ref.#	Description	Style
-	GE 44	2 Watt 6 Volt	Filament
	GE 44LED	2 Watt 6 Volt	LED Dimmable
	GE 1828	1.8 Watts 37 Volt	Filament
	GE 1828LED	1.8 Watts 37 Volt	LED
~	GE 1866	.25 Watt 6.3 Volt	Filament
	GE 1866LED	.25 Watt 6.3 Volt	LED
-	50A19 (8094886)	75 Volt 50 Watt Rough Service	Filament
	50A19Premium	75 Volt 50 Watt	Filament
	RS50A 19LED AAR-6W (8094886)	75 Volt 6 Watt Rough Service Complies to AAR Standard S-5515	LED Totally Sealed
	30511 (8190621)	30 Watt 75V	Filament
	SLS30S11LED (8190621)	30 Watt 75V	LED
S.	200PAR56 (8156001)	32 Volt 200 Watt Headlight	Filament 200 Watt
	200PAR56FRA Safety (8156001)	32 Volt 250 Watt Headlight FRA Approved	Halogen 250 Watt
S.	350PAR56 (6961771)	75 Volt 300 Watt Ditch Light	Filament 350 Watt
SUPERIOR NO	350PAR56FRA Safety (6961771)	75 Volt 400 Watt Ditch Light FRA Approved	Halogen 400 Watt
			201.001

See Pg. 15 for FRA Halogen Bulb





FACILITY LIGHTING

PowerRail Distribution, being a leader in LED Technology for Freight and Passenger trains as well as Locomotives and cars, has unique low cost - high quality LED lights for office, warehouse, locomotive maintenance facilities and more. Contact us for a custom design to meet all of your needs.

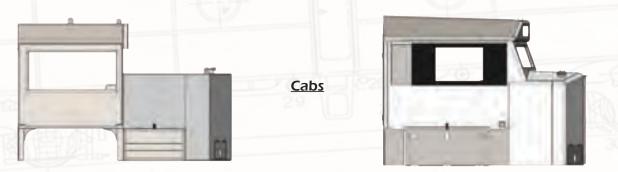




AAR M-1003

CABS

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





Cab Door Assemblies



New Frames



Cab Stuffed with All Components

PowerRail Part# E9096838 Single Lamp and E9502221 Dual Lamp E9502221PRD Dual Lamp with One or Both Bulbs On Off Option

SLS30S11LED Bulb



E8167296 Flame Arrestor Fuel Tank



Fuel Tanks - Standard & New Crash Worthiness

Modified Switch for

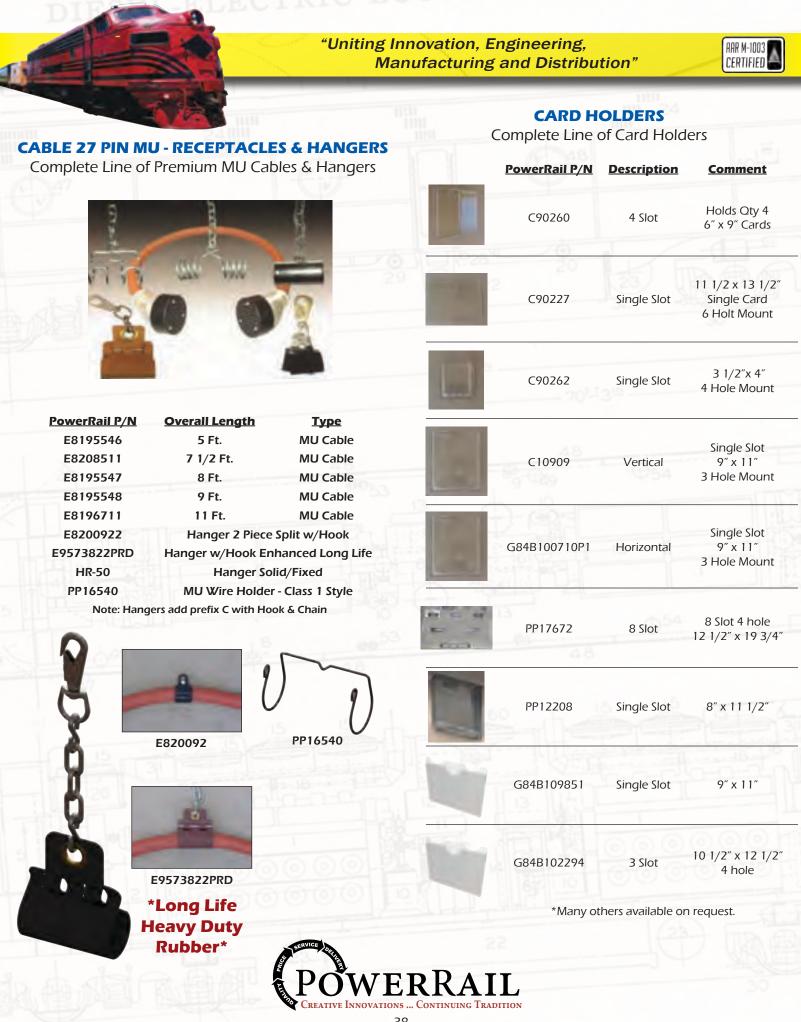
1 or 2 Lights

Full Line of Fu	el Gauges
9515153	Fuel Gauge Float Type 3900 Gallons
9321144	Fuel Gauge Float Type 4000 Gallons
8438327	Fuel Gauge Side Mounted 4000 Gallons
40058437	Fuel Gauge Float Type 5000 Gallons SD70





Cab Light



- 38 -





PowerRail Bio-Degradable Chemical Line



PowerRail Distribution Inc. is dedicated to provide alternate solutions to the Rail Road industry at competitive pricing.

The newest addition to our family is "Seacole C&H Chemical Line" which offers a Full Line of Locomotive "SOLVENT FREE" Eco-Friendly Engine Products, Degreasers and Cleaners.

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



<u> 299 - WATER LEAK</u>

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.

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13	-	-	5	
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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.

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

Seacole Specialty Chemical

PowerRail P/N	Size	Comment
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.

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









PowerRail Bio-Degradable Chemical Line



850 - HEAT EXCHANGER INHIBITOR

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

NO MEASURING - Just Pour Directly Into Radiator

<u>PowerRail P/N</u>	Size	Comment
850COR-5	5 Gallon	Liquid 70
850COR-55	55 Gallon	Liquid
805COR-275	275 Gallon	Liquid



55 Gallon

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.



5 Gallon

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







PowerRail Bio-Degradable Chemical Line

Rush Inhibitors



55 Gallon



PowerRail P/N	Size	Comment	
571RUST-5	5 Gallon	Liquid	
571RUST-55	55 Gallon	Liquid	
573RUST-5	5 Gallon	Liquid	
573RUST-55	55 Gallon	Liquid	
577RUST-5	5 Gallon	Liquid	
577RUST-55	55 Gallon	Liquid	
			_

<u>571</u>

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 & conveyorized systems to free standing manual and immersion type tanks.

Compatible with most alkaline cleaning compounds when simultaneously used.

Harmless to engines and equipment.

<u>577</u>

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 & conveyorized systems to free standing manual and immersion type tanks.

Compatible with most alkaline compounds when simultaneously used.

Harmless to engines and equipment.

<u>573</u>

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.







PowerRail Bio-Degradable Chemical Line



Locomotive Exterior Wash

	Size	Comment
BREAK-32	32 Oz	Spray Bottle
BREAK-5	5 Gallon	22 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, and is biodegradable and environmentally friendly.

<u>TOTAL</u>

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!







PowerRail Bio-Degradable Chemical Line

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



55 Gallon

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 contaminates 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 contaminates on all metal & 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!





PowerRail Bio-Degradable Chemical Line





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 Pail **SPRAYDETRS-50** 450 Lb



55 Gallon

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 contaminates.

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.

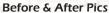
SPRAYDET RS

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

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













PowerRail Bio-Degradable Chemical Line



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.

Size

5 Gallon



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



PowerRail P/N

DEFOAMER-5



Comment

Liquid

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	Oty 160 Bags per Skid









PowerRail Bio-Degradable Chemical Line





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

SEASONAL PRODUCTS

55 Gallon

6885 - 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.

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

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



CIRCUIT BREAKERS

Complete Line of Heavy Duty

Circuit Breakers. Below is a Listing of Common Items



CENTER PLATES & BOWL LINER

Complete Line of Truck Parts

OEM Ref. #	<u>Type</u>	Description
CBL-120	1 Piece	Style 2 axle rigid truck Assy (3/8″Thk)
CBL-125	1 Piece	Style 2 axle rigid truck Assy (1/2″ Thick)
CBL-140	2 Piece	Style Flexicoil truck Assy SD Series
CBL-160	2 Piece	Style 3 axle truck Assy SD-2, SD50/60
CBL-180	2 Piece	Fits GE Style 3 Axle "C" Trucks
CBL-200	2 Piece	Fits GE Style 2 Axle "B" Trucks

CLAMPS

Complete Line of Clamps for Multiple Applications



CONTACTS, ELECTRICAL WIRE & TERMINALS Complete Line of Electrical Contacts, Wire and Terminals

Listing of commo	The state of the s	
OEM Ref#	Amp	Comment
8458705	2	SINGLE POLE
8456915	5	SINGLE POLE
8458697	10	SINGLE POLE
8458698	15	SINGLE POLE
8458699	30	SINGLE POLE
8458735	3	DOUBLE POLE
8458728	5	DOUBLE POLE
8458736	5	DOUBLE POLE
8458739	15	DOUBLE POLE
8458727	15	DOUBLE POLE
9090434	15	DOUBLE POLE
8458724	30	DOUBLE POLE
8458726	35	54 DOUBLE POLE
8458738	40	DOUBLE POLE
8414231	50	DOUBLE POLE
8448859	50	DOUBLE POLE
8316879	50	DOUBLE POLE
8433382	60	DOUBLE POLE
8485669	60	DOUBLE POLE
6945270	70	DOUBLE POLE
8433383	100	DOUBLE POLE
8433381	150	DOUBLE POLE
8458741	15	TRIPLE POLE
8458742	30	TRIPLE POLE
41A218545P4	15	SINGLE POLE
41B544907P1	15	SINGLE POLE
41B544907P2	25	DOUBLE POLE
41A212414P14	15	DOUBLE POLE
41A212414P2	30	DOUBLE POLE

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

8280185 Main Battery Switch 400 Amp / 250 Volt





COUPLERS - YOKES & DRAFT GEARS

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

OEM Ref#	Comment	
8034983	Coupler Type E Non Alignment	
8219072/9329801	Coupler Type E Non Align Control 4888	
8349831	Coupler Type F Align Control 8301	
8385515	Coupler Type E Align Control 8311/8306	
PRD16184269	Mark 50 For 100 Ton Train Cars	
499A423P10/8420235	Draft Gear NC-390	
6915380/499A180P6	Yoke Only NC 390	
8219282/8420236	Draft Gear and Yoke Assembly NC 390	
8220283/8252488	Single Draft Gear & Yoke Assy MS-485-6A	
8269424	Double Draft Gear & Yoke Assy MS-485-5A	
8090508/8236891 8246352	Draft Gear MS-485-5A	
343B261P1/6913085 8229465/8253666	Draft Gear MS-485-6A	
8236890/8246351	Draft Gear	
8420237/499A423P9	Draft Gear NC-391	
8420238/41D71673G2	Draft Gear And Yoke Assembly NC 391	
8314758	Yoke Only NC 391	
8062944	Lock Coupler	
8069851	Thrower Coupler	
8068119	Lifter Assembly Coupler	
8165226/8081918	Coupler Pin 3 15/16 x 13 OAL	
9500878	Coupler Pin 3 17/32 Dia. x 12 5/8 In Long	
9500877	Coupler Pin 3-17/32 Dia. x 13 In Long	
8057698	C10 Knuckle Pin	
8055811/8092305	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



AAR M-1003 Certified

NC-391 Draft Gear

E8448086 Pocket



Full Line of Coupling Parts

PRD16184064 Alignment Block for Pocket





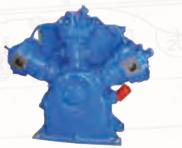
AAR M-1003 Certified

COMPRESSORS - AIR & WATER

Complete Line of New & Re-Manufactured **"True-Blue**[™] series Gardner Denver WBO, WBG and WXO Air Compressors, Parts and Components by ...



Authorized Distributor





Compressor Test Cell



Quality Build Procedures

Remanned Components

New and	Description	Туре
W/XO	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
W/BG	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



AAR M-1003 CERTIFIED

COMPRESSORS - AIR & WATER

Complete Line of New & Re-Manufactured "True-Blue ™" series Gardner Denver WXO, WBO and WBG Air Compressors, Parts and Components by ...

Common Parts Listing By Air Compressor Model

E8042133

E8059939

E40017901

WXO LP Head WXO LP Cyl. WXO LP Piston WXO LP Rod WXO HP Head WXO HP Cyl WXO HP Piston WXO HP Rod WBO LP Head WBO LP Cyl. WBO LP Cyl. WBO LP Piston WBO LP Piston WBO LP Rod WBO 1/2 Bearing WBO HP Head WBO HP Head WBO HP Cyl WBO HP Head WBO HP Piston WBO HP Piston WBO HP Rod

E8033545 E8033550 E8083614 E8343422 E8033545 E8237532 Both Styles E8237539 Old Style E9518774 New Style E8338021 Old Style E40017901 New Style E8033545 E8496981 E8238541 Old Style E8347435 New Style E8237531 Old Style E8347435 New Style E8343422 Old Style E40017901New Style

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

E8033545



E8236433 Coupling Air Compressor Coupling Engine

E8323180



Bushing



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 WXO, WBO & WBG style compressors Unit Exchange or Outright





AAR M-1003

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





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

New Stand Ready for Install







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





Custom Panels Related to PTC Installations



New Anti-Chatter Doors with Adjustable Locks



TRAIN SIMULATORS PowerRail Electronics Technology Offers a Full Line of **New Train Simulators**

100% New & Remanufactured Controllers. Dynamic and Non Dynamic

Cont	rollers New and
	E9093629
	E8226959
	E9325903
	E9091052
	E8227211

Description Dynamic Plastic Face Dynamic Steel Face Dynamic Plastic Face NON—Dynamic Plastic Face NON—Dynamic Steel Face

Contactors, Controllers, Relays and Modules Page 52







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 by PowerRail Electronics & Technology, Savannah Ga.

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













OEM Ref.#	Description
8400143	Contactor Control Cabinet
8251126	Contactor Gen. Shunt Field
8192805	Contactor Power
8458534	Contactor Power
8461331	Contactor Magnetic
8453175	Motor Module Control
8463776	Motor Module Control
9091052	Controller Non Dynamic
9093629	Controller Dynamic & Brake
9325903	Controller Dynamic & Brake
8330790	Voltage Regulator 3 Terminal
8351980	Voltage Regulator 4 Terminal
8484375	6 Panel Light Enhancement
9322456	Rheostat 1500 Ohms
40040084	SGC 5000A Power Contactor
8131665	Reverser 4 motor 4 Contact
8131666	Reverser 2 Motor 2 Contact
17FL & 17FM	GE Aux and Other Modular Panels











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are Coated with a **Proprietary Blend** of Minerals and an Abrasive Epoxy Grit. Providing Strength, Durability, and Safety in Locomotive Cabs

"Uniting Innovation, Engineering, Manufacturing and Distribution"



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!!!

PowerRail #	Description
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 LOCOMOTIVE FLOORING

Provides Slip Resistance, Durability and a Permanent Solution. The Light Weight Aluminum 4' X 8' Panels

> **DOOR - BATTERY GRATING** PRD16184575 - 1" Fiberglass Sheet PRD16184576 - 1 1/2" Fiberglass Sheet

Complete Line of PRD Locomotive Cab Flooring

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

PowerRail #	Description
E40014788	SD70 Rear Cab Window and Cab Windshield 15 Ft
E8286959	Weatherstriping 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 - WEATHER STRIPPING

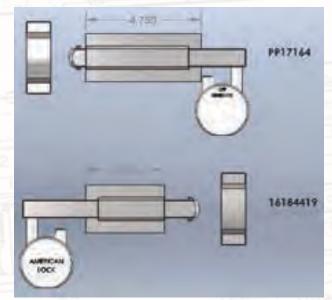


Latch

E8278056 Slide Lock

PRD17164 Slide w/ Lock

MODESTY LOCKS



Special Keyed Versions & Other Styles Available







DOOR LOCOMOTIVE CARBODY Complete Line of Enhanced **Fiberglass** Doors.

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

60% OR MORE Lighter than Steel Doors!!!



PowerRail #	Description	<u>Length</u>	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/Thristors
- 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



E40048214 E40029131 E40029132 E40032602 E40032603 E40053999 E40032602 E8374003 E9561605 E8380922

E8429166

E8004092

E8004613

E8332375

E8332374

E8207382

E8047227

E8228323

E8332375

PowerRail #

Description **Insulating Diode Boot AR10 Diode Negative** AR10 AR11 Diode Positive **AR20 Diode Positive** AR20 Diode Negative **Diode Positive Diode Negative AR10 Transformer AR11 Transformer** Resistor AR10 50W 5 OHMS Resistor 400W/ 3.75 OHMS Walkaway Step Light **Engine Room Light Globe Glass Rubber Standard Lamp Base 4 Holes Rubber Standard Lamp Base 2 Holes Engine Room Guard and Shade Assembly** Lamp Guard Assembly Cage Number Light Socket Lamp - Yellow Rubber Socket Lamp, 4 Holes, Rubber, Standard Base

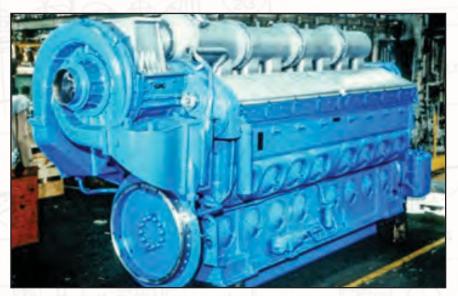
CREATIVE INNOVATIONS ... CONTINUING TRADITION





ENGINES Complete Line of **"TRUE BLUE ™"** Ouality Remanufactured Engines by our Partner ...







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



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 Exchanged, Remanufactured Outright and Repair/Return.

All Engines are mounted on a Dynomometer to ensure the end user will be able to get 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.



We also offer FULL Service & Field Support that can also offer rebuilding Engines in the Field including Line Boring



Experience is the key



ENGINE POWER ASSEMBLY LINE

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



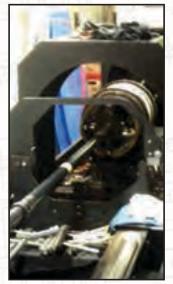
Quality Workmanship – Quality People





Machining, Re-Qualifying Cylinder Heads





Honing and Re-Qualifying Liners



Precision Inspection of all Liners



Assembly and testing of all components







ENGINE POWER ASSEMBLIES & HLP UNITS

Complete Line of Premium **New** Power Assemblies <u>AAR Certified Ouality</u>

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	<u>UX P/A</u>	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

CLARK INDUSTRIAL POWER





Replaces 9556059/9556060/9545727 40021330/40042135/40121467



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



five Innovations ... Continuing Tradition

AAR M-1003

ENGINE PARTS OFFERING

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







OEM Ref #	Description	New	UX	
8415993	Liner Cast Iron 645	Yes	Yes	
9318833	Liner HUB 645	Yes	Yes	
9090233	Liner Chrome 645	Yes	Yes	
9546509 - 40014531	Liner HUB 710	Yes	Yes	
40060841	Fork Rod	Yes	Yes	
9544257	Blade Rod	Yes	Yes	
8367800	Carrier 645	Yes	Yes	
40006129	Piston Tin Plated HURG Roots	Yes	No	
40006130	Piston Tin Plated HURG 645E3	Yes	No	
40006131	Piston Tin Plated HURG 645E3B	Yes	No	
40033365	5 Ring Set Cl Liner 645		No	
9323296	Ring Set Chrome 645		No	
8269842	Piston Pin 645E	Yes	Yes	
40078951	Piston Pin 645E3B	Yes	Yes	
8268641	Lower Liner Insert 645	Yes	No	
9316139	Lower Liner Insert Hi HP	Yes	No	
9583686	Gasket Install Kit Power Assy	Yes	No	
9581924	Cyl. Head Seat Ring Viton	Yes	No	
121X1306	Rotator Valve Cylinder	Yes	No	
140X1063 140X1073	Piston Crown	Yes	No	
142X1050	Piston	Yes	No	
142X1052	Piston Pin	Yes	No	
7FDL	Jackets & Liners		T	
7FDL	Short Packs and Full	No	Yes	











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CONTRACTOR OF THE OWNER

"Uniting Innovation, Engineering, 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



OEM Ref. #	Description	OEM Ref. #	Description
8028006	Thrust Collar 645	9546232	Rocker Arm Assy Exhaust 710
8039842	Lube Oil Line	9549577	B Pipe 567
8048880 - Handle	Cylinder Test Valve 645 T– Handle	9549578	P Pipe 645
8085260	Valve Bridge Assembly	9581924	Cylinder Head Ring Viton
8135330	Trust Washer 645	40036607	Cylinder Test Valve 710
8160209	Fuel Line	40046561	P Pipe 710
8195996	Flex Coupler	40102453	Trust Washer 710
8206804	Water Jumper 567C	114X1218	Bonded Drive Couplings
8414444	Water Elbow	116X1114 / 116X1115	Cam Segment
9093027	Water Jumper 645	124X1058 / 124X1068	CrossHeads
9319504	Rocker Arm Assy Injector 645	140X1826-1 / 140X2950	Fuel Line
9319505	Rocker Arm Assy Exhaust 645	150X1232	Linkage
9544046	Thrust Collar 710	PRD16184502	Oil Sampling Valve 1/4 NPT
9546230	Rocker Arm Assy Injector 710		





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"Uniting Innovation, Engineering, Manufacturing and Distribution"

AAR M-1003 Certified

ENGINE PARTS OFFERING

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

OEM Ref. #	Description
XXXXX	CrankShafts EMD & GE Style
8261194	Cam Segment 567/645 Non Hardened Engine
8419849	Cam Segment 567/645 Non Hardened Engine
 8320994	Block Assembly Camshaft Drilled Flange
8320995	Block Assembly Camshaft Plain Cap
8476507	Main Bearing Cap Center 645
8476508	Main Bearing Cap 12C 645
8476509	Main Bearing Cap Intermediate 645
8476510	Main Bearing Cap Rear
9541514	Main Bearing Cap Intermediate 710
9541512	Main Bearing Cap Center 710
9541511	Main Bearing Cap IRear 710



We stock full Line of Remanufactured **Crankshafts and Cam Shafts**







POWERRAIL MANUFACTURING

Complete Line of New and "**True Blue** [™]" Remanufactured Engine Components. Roots Blowers, Pumps - Oil, Water & Fuel, Vane Motors, Air Compressors, Starters, Valve Bridges, Rocker Arms, Heat Exchanger including Radiators and Oil Coolers, Wiper Motors & Other Engine Components.



100% True Blue ™



ENGINE PUMPS - POWERRAIL MANUFACTURING

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



AAR M-1003 Certified

Balancing Impeller

Description	Application
Water Pump Left Hand SMALL	Roots Blown
Water Pump Right Hand SMALL	Roots Blown
Water Pump Left Hand Small	Turbo 16-567/12-645
Water Pump Right Hand Small	Turbo 16-567/12-645
Water Pump Left Hand Small	High Capacity
Water Pump Left Hand Large	Turbo 16-645 - 710
Water Pump Right Hand Large	Turbo 16-645 - 710
Water Pump Right Hand	Tier 1
Water Pump Left Hand	Tier 1
Water Pump	Unit Exchange
	Water Pump Left Hand SMALL Water Pump Right Hand SMALL Water Pump Left Hand Small Water Pump Right Hand Small Water Pump Left Hand Small Water Pump Left Hand Large Water Pump Right Hand Water Pump Right Hand

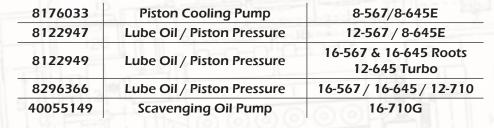


Precise Positioning





Torqueing per MI





AAR M-1003

ENGINE PUMPS - POWERRAIL MANUFACTURING

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

ENHANCEMENT

All Remanufacture Pump Motors will offer <u>NEW</u> Armatures, Bearings and Brushes for Reliability

5540387	1/4HP DC Fuel Pump Motor		
4947308	3/4HP DC Fuel Pump Motor		
8296428	1/4HP DC Fuel Pump & Motor		
40042770	3/4HP DC Fuel Pump & Motor		
8498154	Soak Back Pump 1.7GPM		
8152343	Soak Back Pump 1.7GPM Assy with Motor		
8498155	Soak Back Pump 1.7GPM		
8411403	Soak Back Pump 1.7GPM with Motor		
8498156	Soak Back Pump 3 GPM		
8492180	Soak Back Pump 3GPM Assy with Motor		
40009239	Soak Back Assembly 3/4 HP 3GPM		
8080284	Fuel Pump 4GPM		
8422951	Fuel Pump 6GPM		
8425609	Fuel Pump & Motor 3/4HP 6 GPM		
40042770	Fuel Pump & Motor 3/4HP 6 GPM		
40122943	AC 4GPM Transfer Pump		
40095692	AC 4GPM Transfer Pump		
132X1750	AC Transfer Pump		
123X1645	Fuel Pump		
132X1535	Fuel Pump		
149X1014	Fuel Pump		

with New Armature with New Armature with New Armature with New Armature Threaded Connection Flanged Connection

> Unit Exchange UX - Bendix Type Unit Exchange



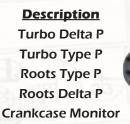
Coming Soon!!! Please call for our new DC Brushless Motor Line Coming Soon!



ENGINE PROTECTORS

Complete Line of New and Re- Manufactured "True Blue ™" Engine Protectors

PowerRail # E9332828UX E8446372UX E8474255UX E9506013UX E8362040UX E8370362UX



Crankcase Monitor



PowerRail #	Descri
E9535870	Turbo Delta F
E9535868	Turbo Type P
E8467306	Roots Type P
E9535869	Roots Delta P

<u>iption</u>

P Rebuild Kits P Rebuild Kits P Rebuild Kits P Rebuild Kits

We also carry Hoses Gaskets and other related parts.

*Parts Are Seal Rebuild Kits



ENGINE GEARS

Engine Gears

Drive Gear 58T	8483944
Drive Gear 58T	8543203
Drive Gear 58T	8483945
Drive Gear 79T	8069019
Drive Gear 79T	8360843
Drive Gear 79T	8069014
122 Acc. Drive Gear	8360839 / 8141909
Starter Ring Gear 265T	8416930



PowerRail # E40051536 E8416930-PRD3PC

Description Starter Ring 265T Starter Ring 265T 3 Piece



AAR M-1003

ENGINE - GASKET, SEALS AND RUBBER PRODUCTS

Complete Line of New Generation Gaskets, Seals and O-Rings We are pleased to introduce our NEW C-Swell™ YellowSeal™ Additionally, our rubber products have been enhanced to our NEW VPS Viton® Power Seal material

Marman Seals

/PS Power Seals *Extended Life *Resistance to Oil & Fuels

WILL NOT LEAK!

PowerRail P/N E8479542

E8479543

E8479544

E8479598

E8479599

E8479600

E8479601

E8479602

E8479603

E8479604

E8406231

Description

	Marman 1/2 Inch
	Marman 3/4 Inch
	Marman 1 Inch
	Marman 1 1/4 In
	Marman 1 1/2 In
	Marman 2 Inch
	Marman 2 1/2 In
	Marman 3 Inch
	Marman 3 1/2 In
	Marman 4 Inch
	Marman 6 Inch
-	

Dresser Seals

Description

Dresser 1/2 Inch

Dresser 3/4 Inch

Dresser 1 Inch

Dresser 1 1/4 In

Dresser 1 1/2 In

Dresser 2 Inch

Dresser 2 1/2 In

Dresser 3 Inch

Dresser 3 1/2 In

Dresser 4 Inch

Dresser 6 Inch

PowerRail P/N

G499A912AEP2 G499A912AEP3 G499A912AEP4 G499A912AEP5 G499A912AEP6 G499A912AEP7 G499A912AEP8 G499A912AEP10 G499A912AEP11 G499A912AEP13



PowerRail offers a full line of Marman Couplings and upgraded VPS Viton Power (High Temperature) Seals.

Pipe is measured by its I.D. because a marman seal sits on the outside of the pipe, the I.D. of the seal will be larger than the pipe size.

COUPLI	NG ASSEMBLY	COMPONENT RI	EFERENCE	
Pipe Size	Pipe Size	Complete Assembly	Seal	
(in inches)	(in length)	(OEM Part No.)	(OEM Part No.)	
0.5	4.50	8476711	8479519	
0.5	4.50	9559888	8479519	
0.75	2.50	8479674	8479520	
0.75	4.50	8470605	8479520	
1.00	2.875	8470340	8479521	
1.00	6.00	8476174	8479521	
1.00	7.50	8472849	8479521	
2.00	4.00	8474757	8479524	
2.00	7.50	8479676	8479524	
2.50	4.00	8392458	8479525	
2.50	6.50	8472617	8479525	
2.50	12.50	8472616	8479525	
2.50	23.00	8275374	8479525	
2.50	26.00	8284779	8479525	
2.50	4.00	9516671	8479525	
3.00	6.50	8471160	8479526	
3.00	12.50	8468179	8479526	
3.00	90°	8455470	8479526	
4.00	7.50	8252895	8479528	
4.00	6.50	8474741	8479528	
4.00	12.50	8470341	8479528	
4.00	6.50	8347788	8479528	
5.00	6.50	9559099	8479528	





567 Chambers - 645 Chambers - 710 Chambers

AAR M-1003

EXHAUST PRODUCTS

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







XXXXXXX	Chamber Assembly 12-645
XXXXXXX	Chamber Assembly 12-645
XXXXXXX	Chamber Assembly 12-645
XXXXXXX	Chamber Assembly 12-645
9316231	Chamber Assembly 16-645
9316232	Chamber Assembly 16-645
9316233	Chamber Assembly 16-645
9316234	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
E8287287	Bolt
E8287287B14	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







EXHAUST PRODUCTS

Complete Line of Exhaust Chambers, Expansion Joints and Full Systems

128x1353-4	Manifold Section	for Single Pipe Manifolds
	Manifold Section	for Single Pipe Manifolds
128x1404	Clamp	for Single Pipe Manifolds
128x1413	Gasket At Turbo Transition	for Dual Pipe Manifolds
128x1444-7	Transition Section	for Single Pipe Manifolds
128x1495	Complete Manifold	8 Cylinder - SS Version
128x1496	Manifold Section - Leg 1R & 4R	8 Cylinder - SS Version
128x1497	Manifold Section - Leg 1L & 4L	8 Cylinder - SS Version
128x1498	Manifold Section - Leg 2R & 3R	8 Cylinder - SS Version
128x1499	Manifold Section - Leg 2L & 3L	8 Cylinder - SS Version
128x1629	End Cover	for Dual Pipe Manifolds
128x1635	Main "T" Section	for Dual Pipe Manifolds
128x1636	Bellows Connector	for Dual Pipe Manifolds
128x1637	Gasket At Sections	for Dual Pipe Manifolds
128x1638	Transition Section	for Dual Pipe Manifolds
128x1639-1	V-Band Clamp	for Dual Pipe Manifolds
128x1640-2	Complete Manifold	16 Cylinder Dual Pipe
128x1642-2	Complete Manifold	12 Cylinder Dual Pipe
128x1648-1	Transition Section	for Dual Pipe Manifolds
128x1657	Manifold Section - Leg 1R & 4R	8 Cylinder - SS Version
128x1658	Complete Manifold	8 Cylinder - SS Version
128x1659	Manifold Section - Leg 1L & 4L	8 Cylinder - SS Version
128x1660	Manifold Section - Leg 2R & 3R	8 Cylinder - SS Version
128x1661	Manifold Section - Leg 2L & 3L	8 Cylinder - SS Version
128x1670	Complete Manifold	12 Cylinder Dual Pipe
128x1730	End Section	



AAR M-1003

FASTENERS

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

11/11

General Fasteners Specialty Locomotive Engine Bolts OEM Ref. # OEM Ref. # Description Description 12538-0008 Fastener Kit (For 8004092 Step Light) 8300183 2 3/4-8 Nut Pinion Retaining D77 40055467 5/8-18 x 4 1/4 Chamber To Crankcase 5/8-18 x 1 3/4 Bolt W/Washer 8127868 8029567 1 1/4-12 x 2 3/4 Flange Retaining Bolt 8259128 1/2-20 X 2 3/4 Bolt Lower Basket Assembly 8034693 3/8-24 X 2 1/2 - 7/16 Camshaft Bolt 8260114 17/32 ID X 1 Washer Connecting Rod 8127868 5/8-18 x 1 3/4 Upper Forkrod Basket 8460207 5/8-18 x 3 1/4 Bolt Assembly Chamber Exhaust 8159340 Bolt Assembly Piston Pin to Connecting Rod 8487883 1/2-20 Locknut Lower Basket Assembly 8242193 1 3/8-6 x 3 Axle Cap Bolt 733P29024 1/2-13 x 1-1/2 12 Point Flange Bolt 8261288 3/4-16 x 11 5/16 Bolt N22P39080 1-8 x 5 Hex Flange Head Bolt 8266137 1 1/4-12 x 7 Special Bolt N56P16014 10-32 x 7/8 Pan Head Screw 8322027 1-8 x 7 1/2 4140 Gear Case Safety Strap T-Bolt N733P33020 5/8-11 x 1 1/4 12 Point Flange Bolt 8460207 5/8-18 x 3 1/4 Assembly Exhaust Chamber Bolt 41A221837P5 Washer Sealing 9085894 41A221875P1 1 3/4-12 X 15 5/8 Crab Bolt 5/8-11 x 1 3/4 Bolt 9338626 1/2-20 Exhaust Manifold Nut 41A222526P1 1/2-13 x 2 1/4 Bolt Support To Turbo N170P25024 3/8-16 x 1 1/2 Coupling To Hub Bolt 41A231439P15 5/16-18 x 5/8 Bolt Assembly 41A222526P1 1/2-13 x 2 1/4 Support To Turbo Bolt 41A235717P8 3/8-16 x 1 1/4 Indented Bolt 41A232240P1 1 1/2-6 x 5 Gear Case W/Hole In Center 41B513140P2 Stud Nozzle Hold Down 41B514152G2 1/2-13 x 3 13/16 12 Bolt Crown 41B513360G2 Screw w/ Button Tappet 1 1/4-12 x 8 11/16 Cylinder Hold Down Bolt 41B520026P2 41B514152G2 1/2-13 x 3 13/16 12 Bolt Crown To Skirt 84B522252P1 **Banjo Bolt**

Many More Fasteners Available - Call For More Details





ENGINE - FILTER

Complete Line of New Air, Fuel & Oil Filters

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

OEM Ref.#		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

Air Filters



Fuel Filters



OEM	<u>Ref. #</u>	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





PowerRail Flexi-Filter Generic Kits

PowerRail Distribution Inc Offers a True Cost Savings by offering Customs Kits dedicated to the Railroad's Road Units.

PowerRail Kits will be Custom Assembled and Tagged by the Customers Road Unit Number which makes ease for ordering.

In addition to the Filters we also can add other items such as Light Bulbs, Carbon Brushes, Wiper Blades and Fuses (to mention a few).

GP40 FILTER CHANGE OUT KIT			
<u>Qty</u>	OEM Ref. #	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	
* No	* Note - May need EG-1 or EG-2 Baggies Intake Filters		

	GP40 FI	LTER CHANGE OUT KIT
<u>Qty</u>	OEM Ref. #	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



Filter Kit PRDX7005

	EMD SW1500 FILTER CHANGE OUT KIT							
<u>Oty</u>	OEM Ref. #	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						
<u>Qty</u>	OEM Ref. # 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. Let us Customize the Kit for you.





FILTERS - AIR LINE Full Line of Filters for Coalescing and Air Dryers



<u> OEM Ref. #</u>	Alt Part#	Description
10565991	75-018	Repair Kit
8363343	AB-10/160-004	Salem 824 Filter
40086698	125-132	Salem 824 Filter
40015249	5237-30-0	Salem 818 Filter
40028168	5664-013	Filter Element for 975-075
P40696	P40696	Filter Coalescer
P32208	P32208	Filter Final
40054494	P40968	Filter Element
5X1109	PM5015	Main Element Kit for PM548
P31309	PM31309	Aux Filter Kit

FANS ENGINE COOLING & GRID

Full Line of New and Re-Manufactured **"True Blue™**″Engine Fans and Electrical Grid Fans





FUSES

Complete Line of Electrical Fuses for demanding Applications

OEM Ref.#	<u>Amp</u>	Application
8004544	150A	Aux. Generator
8004545	100A	Battery Charging
8004546	60A	Alternator Field
8004570	80A	Battery Field
8004548	30A	Generator Field
8060582	400A	Starter Motor
8042739	400A	Fuse Link Starter
8127051	150A	Boiler
8152419	60A	Battery Field
8346478	800A	AR10
8407729	425A	AR12
8414678	800A	Starter Motor
8439559	200A	Cooling Fan
9330514	450A	AR11 Transition
9330515	450A	AR11 Transition
40028900	550A	AR11
40084060	500A	SD70 Air Compressor



FORES & TORPEROS

Fusee Holder P50026-16



Fusee Holder P50026-23



FUSE HOLDERS

Complete Line of Fuse Holders



OEM Ref. #	Description
8280183	31-60 Amp 250 Volt
8029220	60-100 Amp 250 Volt
8280184	0-30 Amp 250 Volts
8280180	61-100 Amp 3/8"-16 x 1 3/4"
8280181	101-200 Amp 1/2"-13 X 2-1/4"
8280182	201-400 Amp 3/4"-16 X 3-1/4"
8280183	31-60 Amp 5/16"-18 x 1 3/4"
8280185	Switch Main Battery Knife Style

GAGES - AIR FLOW INDICATORS FUEL AND AMMETERS

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

OEM Ref. #	Description
10601196	Air Flow Indicator
40017162	Air Flow Indicator
8195741	Air Flow Indicator
8387634	Air Flow Indicator, 60-160 lbs.
84B104054P1	Air Flow Indicator
10590743	Ammeter Load Indicator SD60
40150894	Ammeter, Control Stand, SD40-E
8214188	Ammeter TM 0-1500 AMPS
8380058	Ammeter Traction Motor 0-1500AMP
8438032	Ammeter Load Gauge 0-1500AMP
8402426	Ammeter Traction Motor Load
9573315	Ammeter Load Indicator
10599378	Complex Gauge Assembly with AFM Indicator 4 1/2"
8315266	Compressor Gauge, Float Type

GAUGES Complete Line of Dry and Liquid Filled Gauges





AAR M-1003 CERTIFIED

OEM Ref. #	Description			
40031338	2 1/2" 0-100 PSI Dry Gauge Oil			
8340547	2 1/2" 0-200 PSI Dry Gauge Air			
40018397	3 1/2" 0-160 PSI Dry Gauge Oil			
40018396	3 1/2" 0-200 PSI Dry Gauge Air			
8015552	3 1/2" 0-160 PSI Dry Gauge Air			
8032122	3 1/2" 0-100 PSI Dry Gauge Fuel Oil			
8032123	3 1/2" 0-100 PSI Dry Gauge Oil			
8037304	3 1/2" 0-160 PSI Dry Duplex Gauge Air			
8047964	3 1/2" 0-200 PSI Dry Duplex Gauge Air			
8231593	3 1/2" 0-200 PSI Dry Gauge Oil			
8231594	3 1/2" 0-160 PSI Dry Gauge Oil			
8380610	3 1/2" 0-200 PSI Dry Duplex Gauge Air			
8387352	3 1/2" 0-160 PSI Dry Duplex Gauge Air			
41A304641ABP1	4" 0-200 PSI Liquid Gauge Oil			
41B536099P3	4″ 0-100 PSI Liquid Gauge Fuel			
8459294	4 1/2" 0-160 PSI Duplex Dry Gauge Air			
8481962	4 1/2" 0-160 PSI Dry Duplex Gauge			
8484326	3 - 4 1/2" 0-160 PSI Duplex Dry Gauge			
9080722	2 - 4 1/2" 0-160 PSI Dry Duplex Gauge			
9329370	4 1/2" 0-160 PSI Dry Duplex Gauge			
9540228	4 1/2" 0-160 PSI Duplex Dry Gauge Air			



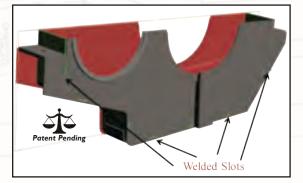




GEAR CASES Complete Line of Grease & Oil GearCases



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 <u>Heavy Impact Resistance</u>
- More Welding Points *Improved Integrity and Strength*
- O 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 <u>PowerLok Oil & Grease GearCases</u>

Less Inventory - Offering Both Designs

New Combination Oil & Grease GearCases

Original Design Oil Or Grease GearCases

- Reduction in Hazard Material Spills
- Reduction in Down Time Due to Small Derailments
- Increased Reliability and Service Life
 - Our New CNC Robotic Welder provides stronger welds vs. that of contemporary welds
 - Our New CNC Robotic Welder provides less heat which lowers fatigue typically found on contemporary welds

Enhanced Strength Design Drastically Reduces Derailment

Oil Cap Plug

Also Offering <u>Original</u> Design Grease & Oil GearCases - PLOCK

CREATIVE INNOVATIONS ... CONTINUING TRADITION - 74 -

Call Our Team for Pricing and Availability!

Grease Cap

AND



EMD GEARCASES

PRD#	REF. #	DESCRIPTION	ТМ	SEALS	RATIO	LOCOMOTIVES	LUBE
E9540306PLOCK	9540306	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE
E9540306COMBO	9540306	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E9540307PLOCK	9540307	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE
E9540307COMBO	9540307	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E9540598PLOCK	9540598	UPPER GEARCASE	D77/87	PLASTIC	2 62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE
E9540598COMBO	9540598	UPPER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E40021647PLOCK	40021647	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	OIL
E40021647COMBO	40021647	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E40024857PLOCK	40024857	UPPER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	OIL
E40024857COMBO	40024857	UPPER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E8301948PLOCK	8301948	UPPER GEARCASE	D77/87	FELT	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE
E8301948COMBO	8301948	UPPER GEARCASE	D77/87	FELT	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E9315720PLOCK	9315720	LOWER GEARCASE	D77/87	FELT	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE
E9315720COMBO	9315720	LOWER GEARCASE	D77/87	FELT	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E9310002PLOCK	9310002	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE
E9310002COMBO	9310002	LOWER GEARCASE	D77/87	PLASTIC	62:15	DD, F, F7A, F7B, FP, GP, SD, SDP, SW, NR11	GREASE or OIL
E40038097PLOCK	40038097	LOWER GEARCASE	D70	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	OIL
E40038097COMBO	40038097	LOWER GEARCASE	D70	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	GREASE or OIL
E4003808PLOCK	40038098	UPPER GEARCASE	D70	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	OIL
E40038098COMBO	40038098	UPPER GEARCASE	D70	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	GREASE or OIL
E40046866PLOCK	40046866	LOWER GEARCASE	D90/100	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	OIL
E40046866COMBO	40046866	LOWER GEARCASE	D90/100	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	GREASE or OIL
E40046865PLOCK	40046865	UPPER GEARCASE	D90/100	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	OIL
E40046865COMBO	40046865	UPPER GEARCASE	D90/100	PLASTIC	83:18	SD70, SD751, SD80MAC, SD90AC, SD90MAC	GREASE or OIL
E40017363PLOCK	40017363	UPPER GEARCASE	D87BTR	PLASTIC	70:17	GP60, SD60I	OIL
E40017363COMBO	40017363	UPPER GEARCASE	D87BTR	PLASTIC	70:17	GP60, SD60I	GREASE or OIL
E40017364PLOCK	40017364	LOWER GEARCASE	D87BTR	PLASTIC	70:17	GP60, SD60I	OIL
E40017364COMBO	40017364	LOWER GEARCASE	D87BTR	PLASTIC	70:17	GP60, SD60I	GREASE or OIL
E9540579PLOCK	9540579	UPPER GEARCASE	E MOTOR	PLASTIC	65:12	DD, F, FP, GP, DP, SW	GREASE
E9540579COMBO	9540579	UPPER GEARCASE	E MOTOR	PLASTIC	65:12	DD, F, FP, GP, DP, SW	GREASE or OIL

Also Offering <u>Original</u> Design Grease & Oil GearCases - PLOCK



Call Our Team for Pricing and Availability!

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EMD GEARCASES (cont.)

					16	48	
E9541129PLOCK	9541129	LOWER GEARCASE	E MOTOR	PLASTIC	65:12	DD, F, FP, GP, DP, SW	GREASE
E9541129COMBO	9541129	LOWER GEARCASE	E MOTOR	PLASTIC	65:12	DD, F, FP, GP, DP, SW	GREASE or OIL
E8301947PLOCK	8301947	UPPER GEARCASE	E MOTOR	FELT	65:12	DD, F, FP, GP, DP, SW	GREASE
E8301947COMBO	8301947	UPPER GEARCASE	E MOTOR	FELT	65:12	DD, F, FP, GP, DP, SW	GREASE or OIL
E8302646PLOCK	8302646	LOWER GEARCASE	E MOTOR	FELT	65:12	DD, F, FP, GP, DP, SW	GREASE
E8302646COMBO	8302646	LOWER GEARCASE	E MOTOR	FELT	65:12	DD, F, FP, GP, DP, SW	GREASE or OIL
E8429098PLOCK	8429098	UPPER GEARCASE	D29/43	FELT	71:18	REPLACES 8283441	GREASE
E8429098COMBO	8429098	UPPER GEARCASE	D29/43	FELT	71:18	REPLACES 8283441	GREASE or OIL
E8283442PLOCK	8283442	LOWER GEARCASE	D29/43	FELT	71:18		GREASE
E8283442COMBO	8283442	LOWER GEARCASE	D29/43	FELT	71:18		GREASE or OIL
E9557134PLOCK	9557134	UPPER GEARCASE	D29/D44	PLASTIC	NARROW 71:18		GREASE
E9557134COMBO	9557134	UPPER GEARCASE	D29/D44	PLASTIC	NARROW 71:18		GREASE or OIL
E9559650PLOCK	9559650	LOWER GEARCASE	D29/D43	PLASTIC	NARROW 71:18	054	GREASE
E9559650COMBO	9559650	LOWER GEARCASE	D29/D43	PLASTIC	NARROW 71:18		GREASE or OIL
E8344966PLOCK	8344966	UPPER GEARCASE	D29CC	FELT	NARROW	G18, GL22	GREASE
E8344966COMBO	8344966	UPPER GEARCASE	D29CC	FELT	NARROW		GREASE or OIL
E8344965PLOCK	8344965	LOWER GEARCASE	D29CC	FELT	NARROW	GT22, G26, GT26	GREASE
E8344965COMBO	8344965	LOWER GEARCASE	D29CC	FELT	NARROW		GREASE or OIL
E40105121PLOCK	40105121	UPPER GEARCASE	70ACE	PLASTIC	13	.0.54	OIL
E40105121COMBO	40105121	UPPER GEARCASE	70ACE	PLASTIC			GREASE or OIL
E4015120PLOCK	4015120	LOWER GEARCASE	70ACE	PLASTC			OIL
E4015120COMBO	4015120	LOWER GEARCASE	70ACE	PLASTC			GREASE or OIL

Also Offering <u>Original</u> Design Grease & Oil GearCases - PLOCK



Call Our Team for Pricing and Availability!

GE GEARCASES

REF. #	DESCRIPTION	TM	RATIO	LOCOMOTIVES	LUBE
41D731910G2 46756697G2	UPPER GEARCASE	E8	74:18	B23 -7, M630, U18B, U23B, U25C, U25B, U30B, U30C, U33C, U36C, C -424	GREASE
41D731910G8 6756697G3 LOWER GEARCASE		E8	74:18	B23 -7, M630, U18B, U23B, U25C, U25B, U30B, U30C, U33C, U36C, C -424	GREASE
41D731910G7 or G9 6756697G1 or G11	SET GEARCASE	E8	74:18	B23 -7, M630, U18B, U23B, U25C, U25B, U30B, U30C, U33C, U36C, C -424	GREASE
41D732358P1 41D732364G2	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
41D732358P1 41D732364G3	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
41D732364G1	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
41D735356P1 41D735347P2	UPPER GEARCASE	AG	83:20	C40 -8 (Reminder: An AG will fit an AF)	OIL
41D735868P1	LOWER GEARCASE	AG	83:20	C40 -8 (Reminder: An AG will fit an AF)	OIL
41D735359G3 Or 41D735668G1	SET GEARCASE	AG	83:20	C40 -8 (Reminder: An AG will fit an AF)	OIL
41D735347P2	UPPER GEARCASE	AH	83:20	C40 -CW, GE DASH 9'S	OIL
41D735340P6 41D735797P1	LOWER GEARCASE	AH	83:20	C40 -CW, GE DASH 9'S	OIL
41D735315G3	SET GEARCASE	AH	83:20	C40 -CW, GE DASH 9'S	OIL
41D730230G1 Or G3 970X21 41D732863G3	SET GEARCASE	761	NARROW GAGE	Set's Only 1 ½"- 6 thread w/ caps Sets Only 1"-8 thread w/ caps	GREASE
41D735642P1	LOWER GEARCASE AMTRAK	AH	83:20	P40 - P42	OIL
41D735644P1	UPPER GEARCASE AMTRAK	AH	83:20	P40 - P42	OIL
41D735428G1	UPPER GEARCASE	761	NARROW GAGE	A22, 23, or 24	GREASE
41D735428G2	LOWER GEARCASE	761	NARROW GAGE	A22, 23, or 24	GREASE
41D736089G3	UPPER GEARCASE	C44			OIL
41D736091G1	LOWER GEARCASE	C44		12 13. 6	OIL
41D7366091G5	LOWER GEARCASE	C44		SUPERCEDED BY 41D7366091G6	OIL
41B538243P1 41AA230409G3	GE CAP	BASE	MADE WITH	GALVANIZED STEEL WITH RUBBER SEAL	000

Also Offering <u>Original</u> Design Grease & Oil GearCases - PLOCK



Call Our Team for Pricing and Availability!

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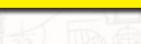
AAR M-1003 Certified

GENERATORS - MAIN AND AUXILIARY

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

OEM Ref. #	Description	New	<u>UX</u> Yes		
5553414 8405875	10Kw Aux Gen	Yes			
8405875MOD	14Kw Aux Gen	Yes	Yes		
8122750	18Kw DC Aux Gen	Yes	Yes		
4979844	18Kw AC Aux Gen	Yes	Yes		
9551383	18Kw AC Aux Gen	Yes	Yes		
9533149	18Kw AC Aux Gen	Yes	Yes		
3195473	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		

OEM Ref. #	Description	<u>New</u>	<u>UX</u>
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



*NEW AUX GENS IN STOCK!

GENERATOR SHAFT DRIVES

E8184471 - 57/8" OAL E8476944 - 155/8" OAL



E8195996 Coupling



E8234958 Compression Bushing or 16185106 Generator Bushing



AAR M-1003 CERTIFIED

HANDRAIL - CARBODY Complete Line of New Handrails and **Related Deck Products**



HEATERS

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









-

HORN COVERS

Complete Line of both Cloth and Stainless Air Horn Covers to provide protection from the Weather and Elements





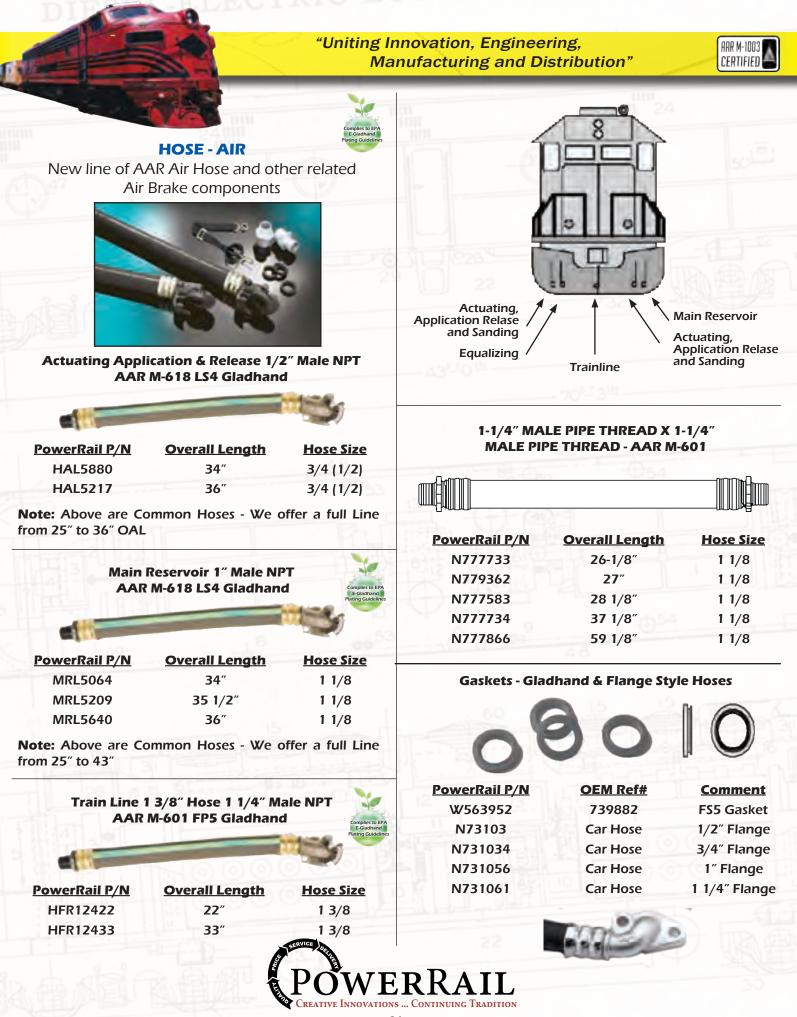
PowerRail Ref. # Cover Blue 4 3/4" Cover Blue 6 1/4" Cover Blue 8" Cover Blue 9" Cover Blue 11" Cover Set K3SET **Cover Set K5SET** P36935 P36945

Application

Cloth - Air Horn Bell **Cloth - Air Horn Set 3 Chime Cloth - Air Horn Set 5 Chime CDF Stainless 3 Chime CDF Stainless 5 Chime**

Please See Page 29 for Air Horns





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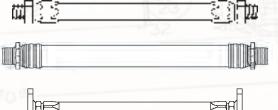


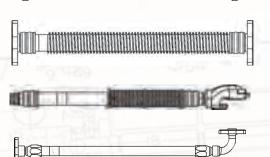
HOSES AIR

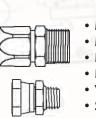
Complete Line of Freight Care Hose

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







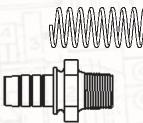


Male to Male

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

HOSE STRAP

AAR 4006 High Strength Synthetic Strap



DUMMY HOSES

Complete Line of Dummy Hoses & Flanges

Overall Length

12-5/8"

15 1/8"

16 5/8"

17 5/8"

27 5/8"

Туре

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L&E

L&E

Vent Holes

Yes

Yes

Yes

No

No

No

No

Yes

Yes

Yes

Yes

No

No

Yes

Yes

Yes

Hose Size

1 1/8

1 1/8

1 1/8

1 1/8

1 1/8

Chain Length

No

7 1/2"

18"

No

7 1/2"

10"

12"

No

7 1/2"

14″

33 1/2"

No

7 1/2"

No

7 1/2"

16"

PowerRail P/N

N777356

N777355

N777357

N777358

N777889

PowerRail P/N

N739823

N703124

N77/8839

N739709

N700303

N781168

N780690

N739824

N703123

N756979

N739822

N739710

N700304

N739825

N703125

N703406





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HEAT SHIELDS

Complete Line Of Heat Shields

PowerRail P/N	Application
E40089234	SD70 Right Rear
E40089235	SD70 Left Rear
E40089236	SD70 Right and Left Front
E40089237	SD70 Right and Left Front
E40089238	SD70 Left Front and Right Rear
E40109698	SD70 Z Type
E8351251	Intermediate Rear Left Hand
E8351254	SD70 Right and Left Front
E8358827	Rear Left Hand

The above list is a sample of the heat shields we offer.

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 KITTING

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







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HOSE SAND

"Safe Sand" Gold Series

New Generation Utilizing Cloth Weave Technology Eliminating Wire Related Injuries



PowerRail P/N E8328950 E9097530

Description 50 Ft. Roll Sand Hose 25 Ft. Roll Sand Hose

Hose Size 15/16 1 5/16

See Page 96 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 Ditch Light** E40043668 G41B549606P1 **Ditch Light** E8235852 Headlight Vert. & Horz. Mount **Headlight Vertical Mount** E8332339 With shield E40046500 Headlight Dual SD70 Contact MU E8382662 E8079302 Cover - MU Receptacle E9572733 **MU Dummy Receptacle** MU Dummy Receptacle G84A201176P3 with back plate **Receptacle MU Complete** E8242444 E8004092 Step Light Assembly G41A200358P1 **Step Light Assembly** E10590984 Step Light Assembly E10605432 FRA Red Lens Light Assembly G41A205337ABP2 Light Assembly Clear Lens **Brake Light Indicator** E40016750



AAR M-1003

INJECTORS

Complete line of New and Re-Manufactured Fuel Injectors

		· · · · · · · · · · · · · · · · · · ·	
OEM Ref#	Comment	A month	
5229500/9081163	567B/567BC		
5229290/8478048	567C		
5229510/9081164	567D		
5229200/8478045	645E		A TON
5229250/8478046	645E3	00.	
5229320/8478053	645E3B		322
5229335/8478055	645E3B Eco	The second s	
5226210/9561950	645F3B		i n 🖼 n
123X1110-2	7FDL	1	
132X1710	Bryce Single Pump		THINK THE
132X1645	Bryce Double Pump		김 모님은 뿐
132X1715	Bendix Single Pump		Bar. Ki
132X1535	Bendix Double Pump	48 Full	Line of Injector Par
		1 cm	

ECOTIP "Green Tag" Injectors

OEM Ref #	ECOTIP Ref #	Comment
5229295/8478049	40083527/40078996	567 A,B,BC,C,E Fuel Efficient Tip
5229200/8478045	40083524/40078993	645E Roots Fuel Efficient Tip With Calibration Slide
5229250/8478046	40083525/40078994	111 Fuel Injector 12,16, 20 Cylinder Low Smoke
5229335/8478055	40083533/40079002	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

<u>Black Tag P/N</u>	Engine Application	Body Style
4991632	567B, BC, C	No-line
4991635	567C	1 Narrow groove
4991629	645E, 567C	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.





AAR M-1003

JOURNAL BOXES - HYATT & ROLLER WHEEL BEARINGS Complete Line of AAR Quality New and Re-Manufacture Hyatt Journal Boxes, Conversion Boxes and Tapered Bearings

We Offer True Unit Exchange or R&R Programs





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

Hyatt W/3N1 Liner



All Hyatt Boxes are Modified with the 3N1 Liner Standard

All Hyatt Boxes are Modified with the 3N1 Liner Standard

New and Unit Exchange GG Style Boxes E9539650 GG Adaptor Box (95801

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



9539431 Lateral Pad

Offering a Full Line of Modified Boxes





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



6

112192

Fig B

E8148707



E9529931

E9529903

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	

Full Line of Remanufactured Locomotive & Freight Bearings



<u>Type</u>	Size	Capacity - Tons		
D	5 1/2 x 10	50 - Passenger		
Е	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		

Remanufactured Locomotive Swing Hangers







LATCHES - DOOR, CABINET & ENGINE Complete Offering of Latches and Keys for Doors including Modesty Locks and Carbody

LEVERS - HANGERS & BRAKE RELATED PARTS Complete Line of Components for Locomotive Trucks

PowerRail <u>P/N</u>	Application	PowerRail P/N	Application
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	Hanger Outside	
E8157951	Brake Hanger	E8044911	Hanger Outside
	Connection Strap, OE or Modified 42" Wheel	E8475110	Hanger Outside
E8099416		E8160062	Inside Yoke Brake
		E8334026	Outside Yoke Brake
	Connection	E8334027	Outside Yoke Brake
E8465284	Strap, OE or	E8044913	Strap
E0403204	Modified 42"	E8228267	Strap
	Wheel	E8228266	Strap
E40034696	Cylinder	$\odot \odot \odot$	
E40034694	Cylinder	0	
E40035166	Cylinder		

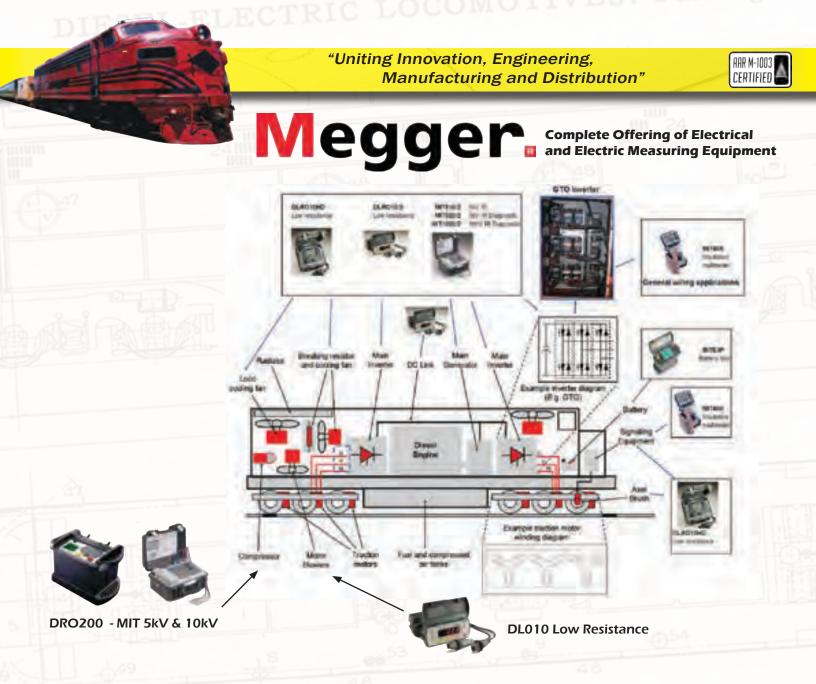
E40035154

Cylinder

OTHER RELATED STOCKED LOCOMOTIVE TRUCK COMPONENTS

PowerRail P/N	Application						
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						
E40010820	SW/GP/SD Trucks - Pedestal Liner Kit with Fastener						
E8068060	GP Trucks - Bolster Wear Plate						
E9085368	GP Trucks - Center Plate Liner (Bolster)						
E9329633	GP Trucks - Center Plate 1/2 Ring (Bolster)						
E9548794	GP Trucks - 3/8" thick Center Bowl Liner (1 Piece)						
E9562813	GP Trucks - 1/2" thick Center Bowl Liner (1 Piece)						
E8044697	GP Trucks - Upper Swing Hanger Bearing Block						
E8044698	GP Trucks - Lower Swing Hanger Bearing Block						
E8106539	GP Trucks - Elliptic Spring Nest Assembly						
E8354463 GP Trucks - Elliptic Spring Nest Ass							
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						





Improved 5 and 10kB 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





MODULES

Complete Line of Electronic Modules, Cards and Panels



OEM Ref. #	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

GE 17FD and 17FL Series - Blue Electronic Cards Regulators and Complete Aux Panels

NAME PLATE & NUMBERING

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







Other Popular Signs Please Visit our Website for Full





Other Popular Signs Please Visit our Website for Full Catalog WWW.EPowerRail.Com

	the second se	
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



PINION BULL GEARS

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

S. No.	OEM-REF	Bull Gear	Gear Part Nos.	S. No.	Pinion	Pinion Part Nos.	
			EMD Traction Ge	ears &	Pinions		
1	EMD	Gear - 65 tooth	8178812	2	PINION Gear - 12 tooth D77	8452310	1
3	EMD	Gear - 63 tooth	8402408	4	PINION Gear - 14 tooth D77	9556207	
5	EMD	Gear - 62 tooth	40049185 / 8109579	6	PINION Gear - 15 tooth D77	40006705	
7	EMD	Gear - 61 tooth	40049661 / 8184341	8	PINION Gear - 16 tooth D77	9556208	
9	EMD	Gear - 60 tooth	40049660 / 8179295	10	PINION Gear - 17 tooth D77	9556209	
11	EMD	Gear - 59 tooth	8184333	12	PINION Gear - 18 tooth D77	9556210	1
13	EMD	Gear - 58 tooth	40049658 / 8184378	14	PINION Gear - 19 tooth D77	9556211	
15	EMD	Gear - 57 tooth	8184325 / 40049657	16	PINION Gear - 20 tooth D77	9556212]
17	EMD	Gear - 56 tooth	8184396	18	PINION Gear - 21 tooth D77	9556213	
19	EMD	Gear - 55 tooth	8184342	20	PINION Gear - 22 tooth D77	9556214]
21	EMD	Gear - 52 tooth	8184332	22	PINION Gear - 25 tooth D77	9556215	
23	EMD	Gear - 63 tooth	40051136 / 40051133	24	PINION Gear - 14 tooth D31	8179135	
25	EMD	Gear - 62 tooth	40051132	26	PINION Gear - 15 tooth D31	8459295	
27	EMD	Gear - 60 tooth		28	PINION Gear - 17 tooth D31	8206504	
29	EMD	Gear - 58 tooth	40051126	30	PINION Gear - 15 tooth D29	8458508	
31	EMD	Gear - 57 tooth	40051125	32	PINION Gear - 16 tooth D29	8341961	
33	EMD	Gear - 70 tooth	40012160	34	PINION Gear - 17 tooth D87	40006706	
35	EMD	Gear - 69 tooth	40049648	36	PINION Gear - 18 tooth D87	9332201	
37	EMD	Gear - 67 tooth	40049648	39	PINION Gear - 19 tooth D87	9332202	
40	EMD	Gear - 66 tooth	40049647	41	PINION Gear - 20 tooth D87	9332203	

GE Traction Gear & Pinions

1	GE	Gear - 90 tooth	41C637598P1	2	PINION 21 Tooth	41C637595P1
3	GE	Gear - 91 tooth	8837760/41B530121P1	4	PINION 20 Tooth	84C614969P1
5	GE	Gear - 92 tooth	41C632784P2 / 8837724	6	PINION 19 Tooth	41C632785P2
7	GE	Gear - 93 tooth	41C636682P1 / 88377526P1	8	PINION 18 Tooth	41C635677P2 / 41C637903P1
9	GE	Gear - 94 tooth	41C637211P1 / 8837727P1	10	PINION 17 Tooth	41C637180P1
				57		
1	GE	Gear - 65 tooth	41C635820P1	2	PINION 18 Tooth	41C635796P1
3	GE	Gear - 74 tooth	41C632494P1	4	PINION 18 Tooth	41C637399P1
5	GE	Gear - 77 tooth	41C632350P1	6	PINION 26 Tooth	41C632349P1
7	GE	Gear - 83 tooth	41C636806P1	8	PINION 20 Tooth	41C636447P6
9	GE	Gear - 87 tooth	41D735826P2	10	PINION 16 Tooth	41D735825P1
11	GE	Gear - 90 tooth	41C632381P1	12	PINION 17 Tooth	41C632382P1
13	GE	Gear - 83 tooth	41C637055P6	14	PINION 20 Tooth	84C62083492

GE Alt. Gears & Pinions

1	GE	Drive Gear 102T	41C637055P6	2	PINION 43 Tooth	41C635625P1
3	GE	Drive Gear 102T	41C637055P6	4	PINION 43 Tooth	41C635800P1
5	GE	Drive Gear 102T	41C637055P6	6	PINION 43 Tooth	41C632663P1

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	EMD	Engine	Gears
--	-----	--------	-------

1	EMD	Drive Gear 58T	8483944	2	EMD	Drive Gear 79T	8069019
3	EMD	Drive Gear 58T	8483945	4	EMD	Drive Gear 79T	8069014
5	EMD	Drive Gear 79T	8360843	6	EMD	Drive Gear 265T	8416930
7	EMD	Drive Gear 113T	8360839 / 8141909				100



AAR M-1003 Certified





AAR M-1003 Certified

PIPE CLAMP BRACKETS

Complete Line of Pipe Clamp Brackets

9



Ref #	Pipe O.D.	<u>Length</u>	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″	8 Pipe

	<u>Ref #</u>	Pipe O.D.	<u>Length</u>	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
1	8108214	3/4″	8 3/4″	Tube
1	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
	the second se			

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

Complete Line of Prime Manufacturing Components



<u>PowerRail P/N</u>	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



HEAT EXCHANGERS RADIATORS, OIL COOLERS, PRE-HEATERS, INTERCOOLERS AND AFTER-COOLERS

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

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

EMERGENCY

E8386654 Emergency Leak Stopper 0.75OZ Containers in Stock



Unit Exchange "True Blue™" Series

PRD16184458 Coolant Test Kit **Rust Inhibitor**



Mechanical Bonding Heads





Mechanical Head Completed



Pressure & Leak Tested Quality is Job 1

PowerRail P/N	Description
E9544027	SW1500 Bundle Tubes
E9339040	4" MB Oil Cooler Core
E8364030	4" MB Oil Cooler Core WITH
E9514842	6" MB Oil Cooler Core

A ThermaSys' Company

ISO certified and Caterpillar Bronze Certified

Custom Design and Manufacturing Strengths

• OEM approved Design and Quality

Tier 1 EPA Certified Products

• Extended Warranty

General ThermoDynamics

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



AAR M-1003



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

PowerRail #	Application
ME4130 1.5 Cu lnch ME4170 2.5 Cu lnch	Stainless Refrigerator 110Volt with Bulit In Invertor
ME804	Cab Fan 74 VDC Single or Dual Spped
PMC945G	1000W 3 Switch 10″ Dia.
E9509437	Cup Handset Hangup
E8145407	Coat Hook



RESISTOR GRIDS

Complete Line of Braking Resistor Grids.

OEM REF #	<u>Resistance</u>	OEM REF #	Resistance
304194, 40085144	.927 Ohms	40010556	.860 Ohms
304193, 40085145	.860 Ohms	40010557	.860 Ohms
47464, 40085146	.922 Ohms	40010558	965 Ohms
8339532	1.072 Ohms	40010559	.632 Ohms
8339533	.970 Ohms	40010560	.766 Ohm
9337613	.642 Ohms		
9337614	.689 Ohms		
331050, 9191050		the second	
000, 7171000	.923 Ohms		
9331051	.923 Ohms 860 Ohms		
9331051		*	lease Contact Us On
9331051 3185703, 40085141	860 Ohms		lease Contact Us On GE Style Grids
	860 Ohms .660 Ohms		





AAR M-1003

ROOTS BLOWERS Complete Line of New and "True Blue™" series Roots Blowers Remanufactured by PowerRail Manufacturing



*New Roots Blowers Are Also Available

PowerRail #	Application
E8379666UX	Roots - Right Hand
E8379667UX	Roots - Left Hand





All Scrolls Are Precision Balanced



All Rebuilt Roots Blowers are Bench Tested

PowerRail's "True Blue™" Series

E8028594 Quill Shaft

E8206553 Bearing



E8028466 Thrust Washer



E8204451 End Plate



E8065752 Gear Cover

E8189438 Housing

- 94 -

CREATIVE INNOVATIONS ... CONTINUING TRADITION

E8369675 Bearing

AAR M-1003

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

E8085260 - Valve Bridge Old Style

E40126370/40145929 - Valve Bridge New Style

Replacement Parts

9319504 Rocker Injector 9571921 Bushing 9571597 Roller 8031925 Button Retaining Spring 8328695 Body only



645 Heavy Heavy Complete Set - E40052184HH

Replacement Parts

E8054088 Bridge E8068791 Spring E8028126 Seat E8028136 Ring E8052307 Button E8085254 Lash Adjuster





POWERRAIL CREATIVE INNOVATIONS ... CONTINUING TRADITION



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.







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"
- 3 sets of Buds for precise Ear fits
- and Contamination Resistant



Complete Line of 3M® FRA Tape



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



- Optimal Fit & Hearing Protection with
- Durable Construction for Durability



SAFETY LINE

Complete Line of Track Mats and Pad

"Uniting Innovation, Engineering, Manufacturing and Distribution"



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

<u>Sorbent Socks</u> <u>Maintenance & Oil Only</u>

Track Mat - Coldform 2

• 19"x100' for outside of track

• 57" x 100' for inside of track

• Oty 1 - 1 case (1 roll per case)

• Oty 1 - 1 case (2 rolls per case)

• PRD16185004-19

PRD16185004-57

PRD16185004-SET

1 case of both sizes

• 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 Lift

Safety Install

Safety Release

OWERRAIL ATIVE INNOVATIONS ... CONTINUING TRADITION



AAR M-1003

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

<u>After</u>

Damaged

Concrete

<u>Step</u>

Locomotive Safety

Safetymatters

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







SD70AC Engineer Side

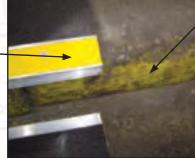




SD70AC Conductor Side

DESIGNED AS KITS





Custom Made for ANY Size Step



Custom Made for Any Locomotive Pit Up to 10 Foot Lengths

ANY WIDTH

Visually Enhances Dangerous Areas





Other Sure-Foot Products

Safety Adhesive Back Tread Signs

- 99 -

SLACK ADJUSTERS

Complete Line of Locomotive Slack Adjusters and Brake Rigging

SEATS Complete Line of OEM Seats for <u>Switchers</u>

- 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

PowerRail #	Application
P183049CD37	Switcher Mid Back Standard
P183049CD37ARM	Switcher Mid Back With Arm
P180837	Ultra Low Back
P180837ARM	Ultra Low Back With Arm

SEATS

Complete Line of OEM 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

PowerRail #	Application	
P180109CD37	High Back Non Sleeper	
P176025PS	Floor Mount 4" Height Adjustment	
P178241PS	Wall Mount With Swivel 3" Height	

1 III III III III III III III III III I	1
PowerRail #	Application
E9334230	SW Style
E9334229	GP Style Clasp Brake
E40042095	GP Style
E40039040	SD Style
E40039041	SD Style
G41C619252G1	GE
G41C612181G1	GE
G41C614411G2	GE



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PowerRail #	Application	
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	

SPRINGS

Complete Line of Coil Springs and Leaf Springs



*Common Stock Items

Application	
Double Coil	
Double SD40	
Spring Outer	
Inner Middle	
Spring Inner	
Elliptical Leaf Spring Set of 4	
Elliptical Leaf Spring	

TIVE INNOVATIONS ... CONTINUING TRADITION





SPARK ARRESTORS

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



SNUBBERS - SHOCK ABSORBERS - DAMPERS

Complete Line of Shock Absorbers and Snubbers

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





Locomotive Spark Arrestors

PowerRail P/N	Application	Oty Required
10AC8	EMD SW-1	1
10AC10	EMD NW-2	2
10AC10	EMD NW-5	2
10AC12	EMD SW-8	54 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

- 101 -





Starters are Failing Premature 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

13



AESS Enhancement

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

PowerRail P/N

E8384834/E1990333 E8384834/E1990333AESS E8428605/E1993740 E8428605/E1993740AESS E10478827/E40069492AESS

Description

32 Volt Starter 32Volt Starter for AESS 64 Volt Starter 64 Volt Starter for AESS 32 Volt AESS Starter SD70





The <u>UNIQUE</u> 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

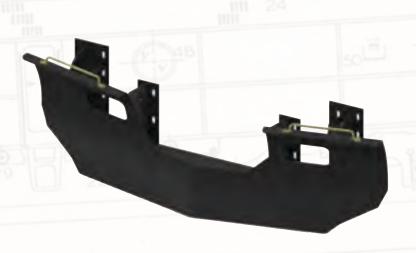


AAR M-1003 Certified

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

PowerRail P/N	Description	
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 Handrail56.75"	
E8379947	Support Handrail 56.75"	

We Also Offer a Full Line of Treads And Steps





SUPPORT BEARING -

SHIMS AND SPACERS Complete Line of Shims

TRACTION MOTOR BRASS Complete Line of Premium Brass Support Bearings



PowerRail P/N	Description
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.



and Spacers



Call for Details on Our PowerBrass Cost Reduction Program.

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



SWITCHES

Complete Line of Switches

PowerRail P/N	Description
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°



AAR M-1003 Certified







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



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	



AAR M-1003

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







SWITCHES - ROTARY

Complete Line of Rotary Switches

PowerRail P/N	Description	
E8356487	Traction Motor Cut-Out Switch4 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	



AAR M-1003 Certified

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 x3/4"	
E8256115	Washer Lock #10	



AAR M-1003



TRUCK - SWING HANGERS

Complete Line of **"True Blue™"** Unit Exchange AAR Certified Remanufactured Swing Hangers and Related parts from **Cooper Bearings** in Georgetown, Delaware

New & Remanned Locomotive Swing Hangers





We Also Offer NEW Swing Hangers

PowerRail P/N

Description

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 Ends1 1/2" x 10"

· · · ·



TRUCK - SWING HANGERS

Complete Line of **"True Blue™"** Unit Exchange AAR Certified Remanufactured Trucks from **PowerRail Locomotive Services**

in Monroe, Georgia



Hyatt or GG Bearings Single or Clasp Brake Shoes - Spring Bolster GP TRUCK - BLOMBERG



Hyatt or GG Bearings Single or Clasp Brake Shoes Suspension Pad Bolster GP - BLOMBERG M



Friction or Roller Bearing - Duplex Brake Cylinder EMD SWITCHER TRUCK



TRUCKS IN STOCK IMMEDIATE DELIVERY



AAR M-1003

Tabs







TOOLS

Complete Line of Tools

*This is just a sample of the tools we offer. Please visit www.ePowerRail.com or call us today for many more.

> E8171633PRD Carrier Snap Ring Enhancement

> > E8239562 Installer/Remover Bushing

E8243341 Hand Tool Breaker Traction Motor Leads

> E8243341 PRD Enhanced 2-Piece

8432485 Jack Governor Injector

E87170 C Frame Tool Power Asslys Compressor

Aux. Generators

ATIVE INNOVATIONS ... CONTINUING TRADITION - 110 -



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



T57870-115V

The T57870-115V offer excellent and uniform torqueing 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 torqueing EMD Style crab nuts.



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

E8075894 Cylinder Head Puller

> E8116358 Lifter Cylinder Liner

8417858 Lifter Power Assembly

E8339610 Rack Setting



ement

AAR M-1003





TRACTION MOTORS

Complete Line of **"True Blue™"** Series Traction Motors Re-Manufactured by **PowerRail Independent Electric** in Lyons, Kansas. 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 & Shortline Approved

000

- 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















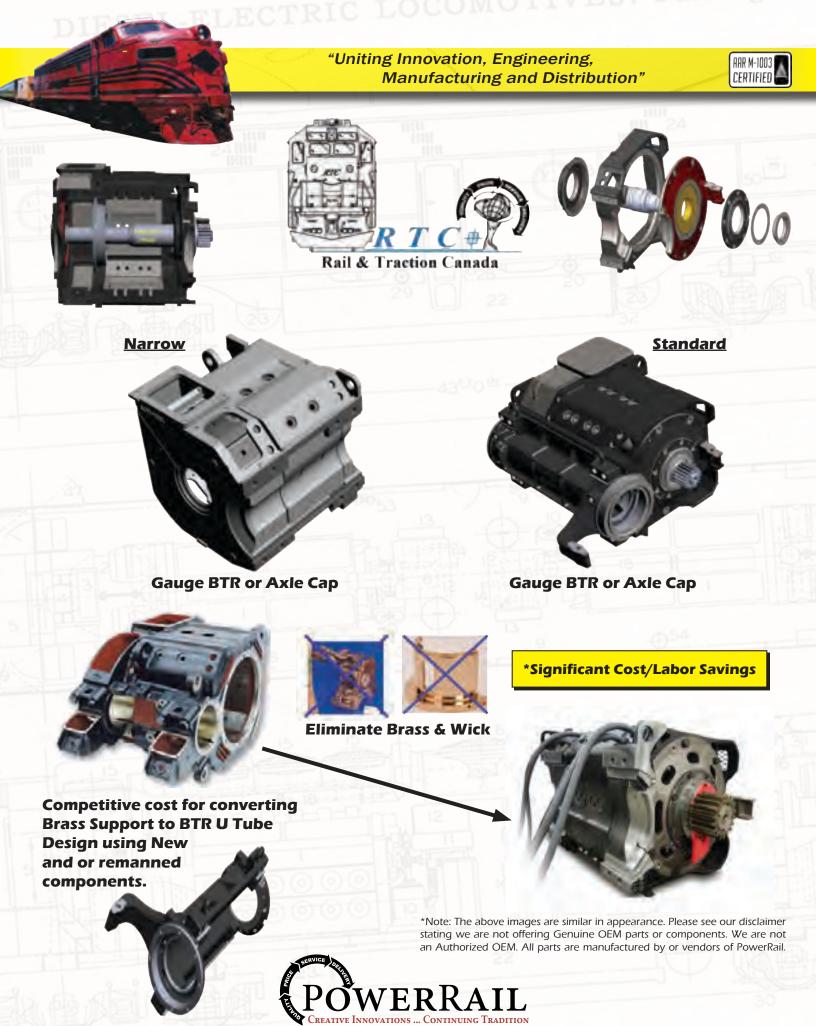
TRACTION MOTORS NEW Complete Line of 100% New GE & EMD Style Traction Motors Manufactured by PowerRail— Rail & Traction Canada



Rail & Traction Canada

Utilizing our M-1003 AAR OEM Verification Process





- 113 -







Rail & Traction Canada

GE Style



GE – Models Domestic 5GE747, 5GE751, 5GE752, 5GE761, 5GE763, 5GE764

GE – Models Internationally 731 and 761 Series GE – Models







0.0

*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. All parts are manufactured by or vendors of PowerRail.





PowerRail P/N E8104188 E8104189/E9087386 E8126036

E8322027

E8326203

E8407505

E40051181

E40061419

E40017436

E8407506

"Uniting Innovation, Engineering, Manufacturing and Distribution"

AAR M-1003

Common Production Stock Parts EMD D77 Traction Motor Support Items



I		0	
	Description		U
R	Nose Support Plate		
	Nose Spring Holder Pack		
	Safety Strap		

T-Bolt Safety Strap

Gearcase Cap - Grease

Clamp MS Gearcase

Gearcase Install Kit Grease/Oil

Gearcase Seal Oil

Filler Cap

Dust Guard CE

PowerRail P/N	Description
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



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

PowerRail P/N	Description	<u>PowerRail P/N</u>	Description
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		ALL OCOC
E9087386	Nose Pack Fabricated	G41B532099G1	GE 752 Cable Cleats
2 4	990000	E8243341	TM Cable Splitters



AAR M-1003 Certified

Common Production Stock Parts GE 752 Traction Motor Support Items

GE 752E8 Traction Motor

GE 752AG Traction Motor

Description

Oil Fill Cap

Seal Ring 9" Oil

Gutter

Gutter

Brush

GE 752AG Air Duct

Wicks Lubricators Assy Complete

Inspection Cover Bottom

Inspection Cover Bottom

Inspection Cover Top

Gearcase Install Kit - Oil

Brushholder - Radial

Pinions - See Page 90

PowerRa	iil P/N	Description	PowerRail P/N
G41A238	534P1	Oil Fill Cap	G41A238534P1
G41B535	245G1	Seal Ring 9" Oil	G41B535245G1
G41B537	189P1	Dust Seal ME	G41C636752P1
G41B537	190P1	Gutter/Seal WS	G41C636752P1
G41B537	191P1	Gutter/Seal ME	G41B537963P1
G41B537	266P1	Dust Guard CE	G41D711633P
G41B537	963P1	Brush	G41C635696G1
G41C632	068G1	Wicks Lubricator Only	G41C636159G23
G41D731	488G1	Inspection Cover Bottom	G41C636160G2
G47486	63G1	Inspection Cover Top	G41C636881G1
G160X1	026	Gearcase Install Kit - Grease	G160X1067
41C6326	67G6	Brushholder - Radial	G41C632667G6
18T - 20T	- 22T	Pinions - See Page 90	18T - 20T - 22T

GE 752AF Traction Motor

PowerRail P/N	Description	PowerRail P/N	Description
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





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

<u>PowerRail P/N</u>	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



2 Hole Lugs

Non Insulated Crimp Terminal Lugs with Stud HolePowerRail P/NDescription

<u> </u>	<u> </u>
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

<u>Pc</u>	owerRail 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

Description

This is just a sample of the terminal lugs we offer. Please visit www.ePowerRail.com or call us today for many more.

Butt Connector Lugs

Gladhand Lugs



Traction Motor Lugs

TRACTION MOTOR CABLES

Complete Line of traction motor cables available for shipment when necessary

PowerRail P/N	Description	Application
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
- 3KV 200 Celsis vs. 2Kv 125 Celsius

• Lower cost in Long Run

Class 1 approved



AAR M-1003 Certified

TRACTION MOTOR COVERS

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

rRail #	Application(s)	PowerRail #	<u>Application(s)</u>
17405	D7, D17, D27, D37, D47, D57, D67, D75, D77, D87, D90	E8467155	D57, D67, D75, D77
17406	D7, D17, D27, D37, D47, D57, D67, D75, D77, D87, D90	E8467156	D57, D67, D75, D77
176280	D29	E9554330 E40007235	D87, D90
3183868	D7, D17, D27, D37, D57, D67, D75, D77	E10520631	D90TR
8204661	D7, D17, D27, D37, D47, D57, D67, D75, D77, D87	G4732425G2 G41C636159G2	752AG, 752AH
8204665	D7, D17, D27, D37, D47, D57, D67, D75, D77, D87	G41C636160G2	752AH
E8235994 E8236101	D29	G4732425G2	752E8, 752AF
8300010	D7, D17, D27, D37	G41C636881G1	752AG
3236103	D29	G41D731488G1	752E8, 752AF
8300011	D7, D17, D27, D37, D57, D67, D75, D77	G4748663G1	752E8, 752AF
8300013	D7, D17, D27, D37, D47, D57, D67, D75, D77, D87, D90	G41C637083G2	752AH
8408599	D57, D67, D75, D77, D87, D90	G6726556P1	752E8, 752AF
8408688	D57, D67, D75, D77	G9961549G1	752



AAR M-1003

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

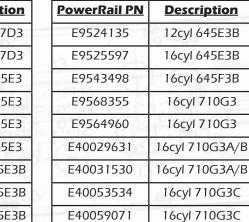


- Class 1 Approved
- Quality Parts
- Quality Workmanship
- Experienced Staff
- Technical Support
- Competitive Price
- Full Line Support Products





PowerRail PN	Description
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







E9515331 E9515338 E9538148

E9538149

E9502409 Eductor Tube Outer E9502412 Eductor Tube Inner

PRD E9557143

Turbo Screen New or Unit Exchange Starburst Design!!!!



REATIVE INNOVATIONS ... CONTINUING TRADITION

- 121 -

Spring Drive Gear High Capacity 16:8 to 1

Spring Drive Gear High Capacity 16:8 to 1

Spring Drive Gear Standard 18:1 ratio

Spring Drive Gear Standard 18:1 ratio



E40001044 E40013863 E40028648

E40052862

16cyl 710 Clutch UX 16cyl 710 Clutch UX 12cyl 710 Clutch 20cyl 710 Clutch

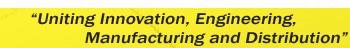
ENHANCEMENT!!! E40034637 Air Duct to Turbo Gasket with Viton for Longer Life



Aftercooler Ducts New or Unit Exchange

000







TREADS, HANDRAIL AND RAILINGComplete Line of FRA Approved Treads, Grab Irons.
Steps, Handrails and Car Body Parts*Below is a Sampling of PartsPowerRail P/NDescriptionComment

	FOWERRAILF/IN	Description	comment
ĺ	E9315313	Tread	GP38
Í	E8342231	Tread	GP38/SD40
ĺ	E8342230	Tread	GP38/SD40
ĺ	E9319219	Tread	SD40
ĺ	E9319220	Tread	SD40
ĺ	E9315311	Tread	GP38
ĺ	G41C629248P1	Tread	Dash 7
ĺ	G41A242229P2	Tread	Dash 7
ĺ	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

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	





WHEELSETS AND COMBO'S

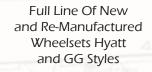
Complete Line of New & **"True Blue™"** Unit Exchange Axles, Wheels, Wheelsets And Combo's



Full Line Of New and Re-Manufactured Axles and Wheels

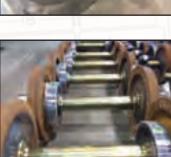












Full Line Of New and Re-Manufactured U-Tube Style Wheelsets and Traction Motor Combos







WEAR PARTS - TRUCK

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

PowerRail P/N	Description
E9085368	Center Plate Liner
E9548794	Center Bowl Liner
E40012754	Center Bowl Liner
E9085369	Center Bowl Liner
E8492124	Center Bowl Liner
G41C629423P1	Center Bowl Liner
G41C629424P1	Center Bowl Liner



E9324108/E4001004 E40012413	EMD Pedestal Liner
G41B515390P1 G41B515390P3	GE Pedestal Liner
E8206915	4" x 3" x ¼" Nylon Plate
E8206916	5″ x 2.625″ x ¼″ Plate
E8386454	5.25″ x 2.75″ x ¼″ Plate
E8088354	10" x 3" x ¼" Plate
E8336782	3/8" Thick
E8336782	3/4" Thick

ATIVE INNOVATIONS ... CONTINUING TRADITION





WIPER MOTORS & BLADES

Complete Line of Air Operated Motors, Arms and Blades



*New and Unit Exchnage

PowerRail P/N	Description	<u>Comment</u>
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″

PowerRail P/N	Description	<u>Comment</u>	
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	III	
E8136957	Wiper Motor Repair Kit	40°, 60°, 70°, 80°	
E8295087	Wiper Valve	T-Knob	
E9316239	Wiper Valve	7/8″ Hex	



AAR M-1003 Certified

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.

ТОР ДЕСК	N=m	Ft-Lbs
Camshaft stubshaft bearing bracket bolts	5-	
5/8" hex head		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		50
Cylinder head-to-liner nuts*		
Initial		70
Final		240
Top deck head frame bolts		
280m bolts with captive		
lockwasher & plain washer		30
300m bolts with hardened washers		40
Overspeed trip mechanism		24
Injector fuel lines		40
Camshaft bearing blocks		32
Rocker arm shaft nuts*		
Initial		150
Final	407	300
Fuel manifold blocks		40
Cylinder test valve packing nut		65
Water outlet elbow-to-head bolts		30
Exhaust manifold-to-crankcase**		
Initial		50
Final		130
(recheck after 6 months)		
Exhaust manifold connector bolts		80
(recheck after 6 months)		
Exhaust manifold inspection cover		
(when equipped		80
	11-11-1	

ACCESSORY END

Accessory drive housing-to-crankcase & oil	pan 88	65
Overspeed trip housing-to-crankcase		65
Water pump mounting bolts		65
Water pump elbows	88	65
Scavenging oil pump mounting bolts		65
Scavenging oil pump elbows	88	65
Lube oil pump mounting bolts		65

Lube oil pump elbows		65
Oil strainer housing mounting bo		65
Governor drive housing mountin	ıg bolts	65
Governor-to-drive housing		65
Overspeed trip cover-to-overspee		30
Fuel manifolds-to-filter		35
Oil strainer elbows-to-strainer ho	using54	40
Accessory drive oil seal cover	54	40
Accessory drive coupling		
Single retaining bolt design		
Initial		100
Final		500
Three retaining bolt design		290
Accessory drive flange locking sp	ring bolt 88	65
Governor drive gear assembly		
Stubshaft-to-crankcase		75
Stubshaft dowel bolts		17
Oil jumper-to-stubshaft		35
Retainer plate-to-stubshaft		35
Governor drive flange-to-drive	gear47	35

CAMSHAFT DRIVE END

Piston cooling manifold flange-to-crank	case 37	27
Idler gear stubshaft bracket-to-crankcas	e	
1/2"		90
3/8″		27
5/16" (dowel bolts		17
No. 1 idler gear thrust plate		
1/2" (to stubshaft		75
5/8" (to crankshaft		185
Camshaft drive gear and counter-weigh	nt-to-camshaft	
1/2″		90
5/16" (dowel bolts	23	17

	N = m	Ft-LDS
Camshaft drive housing-to-crankcase		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

TURBO ENGINES ONLY

Turbocharger mounting bolts-		
3/4″		175
1/2″		65
Air ducts-to-turbocharger		60
Air ducts-to-crankcase		65
Auxiliary drive-to-turbocharger		
3/8″		24
1/2″		65
Aftercooler-to-air duct	61	45





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		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 PLAN

Main bearing nuts*		
Initial	475-	350-
		400
Final		750
Crankcase-to-oil pan		
Initial		100
Final		450
Connecting rod-to-piston pin*		450
Piston pin retainer bolts*		
1/4" Bolts		12
5/16" Bolts		28
Basket-to connecting rod*		
Initial		10
Final		190
Connecting rod basket		75
Piston cooling oil pipe bolts	27	20
Water jumper-to-liner		30
Water jumper saddle strap nuts		15
Damper/balancer-to-crankshaft		500
Bolt-on crankshaft stubshaft*		
(where applicable		500
Bolt-on crankshaft stubshaft		
retention bolts		60
Accessory drive gear to crankshaft*		
7/8″		500
3/4"	407	300
5/8″	217	160
Accessory drive gear oil slinger		24
8,12, & 16 cyl		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. 230.	3	
**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	1
Temperature	
T1, To Engine (from cooler)175°-200°F	
T2, From Engine (to cooler)	
T, Temperature Differential	
Alarm Settings	
ELOS, Engine Lube Oil Switch	
Rated Speed 17 - 21 psi	
Idle Speed5 - 9 psi	i
ELOT, Engine Lube High Temperature	
Switch (into engine)220°F	
Fresh Water System	

Fresh Water System

Pressure Rise Across Fresh Water Pump At 900 RPM	
(minimum 0 psi at pump inlet)	
8 Cylinder	.45 <u>+</u> 3 psi
12 Cylinder	.53 <u>+</u> 3 psi
16 Cylinder	.45 <u>+</u> 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 R	2PM
(maximum suction-2 psi at pump inlet)	
With Gear Cooler	
8 Cylinder	
12 Cylinder	
16 Cylinder	
Without Gear Cooler	
8 Cylinder	46.5 <u>+</u> 2 psi
12 Cylinder	
16 Cylinder	



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Design Temperature

T1, To Fresh Water Cooler (maximum	85°F
T2-T1, Raw Water Temperature Rise Acros	55
Fresh Water Cooler	
8 Cylinder	41 <u>+</u> 2 psi
12 Cylinder	43 <u>+</u> 2 psi
16 Cylinder	

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	
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)	

Fresh Water System

Pressure Rise Across Fresh Water Pump At 900 RPM	
(minimum 0 psi at pump inlet)	
8 Cylinder	47 <u>+</u> 3 psi
12 Cylinder	48 <u>+</u> 3 psi
16 Cylinder	
20 Cylinder	55 <u>+</u> 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.

CREATIVE INNOVATIONS ... CONTINUING TRADITION - 127 -

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 <u>+</u> 2 psi	i
12 Cylinder	43 <u>+</u> 2 psi	i
16 Cylinder	32 <u>+</u> 2 psi	i
20 Cylinder	32 <u>+</u> 2 psi	i
Without Gear Cooler		
8 Cylinder	47 ± 2 psi	i
8 Cylinder 12 Cylinder	47 ± 2 psi	i
16 Cylinder	41 <u>+</u> 2 psi	i
20 Cylinder		
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

Dedication at Every Turn

CREATIVE INNOVATIONS...CONTINUING TRADITION

1

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10.00



SERVICE

PRICE

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