



ENGINE & EXHAUST BRAKES

PACBRAKE'S HEAVY DUTY BRAKING FOR HEAVY DUTY HAULING

*Tow With **Confidence**
Brake With **Authority***



ISO 9001
QMI-SAI Global

With today's trucks capable of towing/hauling over 30,000 lbs, additional control & stopping power has never been more necessary. Pacbrake engine and exhaust brakes are unmatched in braking performance.



EXHAUST BRAKES



LOADLEASH



ENGINE BRAKES



REPLACEMENT PARTS

APPLICATION GUIDE & PRODUCT CATALOGUE



AFTERMARKET BY
PACBRAKE

PACBRAKE[®] COMPANY



As a proud family run business since 1961, Pacbrake Company™ has been committed to providing its customers with the highest quality products for a wide range of vehicles. Over the years, the expertise and innovation of Pacbrake's dedicated staff transformed the company from an engine brake distributor, into an industry leading manufacturer of automotive products. To this day, Pacbrake remains devoted to improving its product design through continuous research and development in order to provide customers with the most advanced automotive systems available, setting the standard for performance and durability across the trucking industry.

Behind every Pacbrake product stands a team of qualified engineers, state of the art manufacturing facilities and an internationally recognized ISO 9001: 2015 quality management system.

Pacbrake's dedication to quality and service over the past 50 years has given them the experience to develop the number one air management system on the market which continues to exceed customer expectations.



HISTORY

1960-1980

- Pacbrake Company™ incorporates in 1961

1980-1990

- Pacbrake develops new engine brake technology for Detroit Diesel™, Caterpillar™ and Cummins™ engines
- Pacbrake becomes the first company to patent a combination engine brake that utilizes an exhaust valve

1990-2000

- Pacbrake starts supplying engine and exhaust brakes to Freightliner™, Kenworth™ and Detroit Diesel™
- Becomes the largest North American exhaust brake manufacturer

2000-2010

- Starts supplying valves to the US Military
- Pacbrake expands R&D efforts and starts development of aftermarket products
- Starts supplying thermal management valves to Navistar™
- Expands aftermarket product line to include more tow/haul solutions (air springs, in-cab controls and onboard air)

2010-PRESENT

- Pacbrake celebrates 50 years in business
- Supplies first hot EGR valve to Navistar™
- Develops the first engine brake for Cummins™ ISB engine
- Launches the first engine shutoff valve for the oil and gas industry
- Develops new heavy duty air compressor line
- Pacbrake develops a large range of air springs for various suspension applications
- Pacbrake supplies first onboard air system for an OEM



The contents of this catalogue are subject to change without notice. Contact Pacbrake for the most up-to-date information on our products

EXHAUST & ENGINE BRAKES

PRXB EXHAUST BRAKE	2
Features, Benefits & Specifications	2
Kit Contents & Features	4
Mounting Options	5
Accessories	6
Switch-Pac & ECM Bypass System	6
Exhaust Brake Pressure Tester & Pacbrake Foot Switch	7
PRXB Application Guide	8
Dodge/Ram	8
Ford	13
GM	14
PRXB RV Upgrade	15
Benefits & Features	15
PRXB RV Upgrade Application Guide	16
Exhaust Brake SuperLube	17
Medium Duty Exhaust Brake Application Guide	19
Ford	19
Freightliner	19
GMC/Chevrolet	20
Kenworth	21
Navistar/IHC	21
Peterbilt	23
Sterling	23
Thomas Bus	24
Western Star	25
Applications Using Foot Switch	25
Applications That Need Warm Up	25
Miscellaneous Universal Applications	25
Allison Automatic Transmission	25
PRXB Components & Specifications	26
Solenoids	26
Adapters	28
Clamps	28
Pneumatic Cylinders	29
PRXB Replacement Parts Guide	30
HP325 AMP Compressor	36
Pneumatic/Hydraulic Fittings & Accessories	37
Nylon Tubing	41
LOADLEASH ENGINE BRAKE	42
Features, Benefits & Specifications	42
LoadLeash Application Guide	44
Kit Contents & Features	46
ENGINE BRAKES	50
Aftermarket Engine Brake Kits	50
Aftermarket Replacement Housing	50
Engine Brake Parts & Kits	51
Caterpillar	51
Cummins	52
Detroit	53
Mack	54
Engine Brake Solenoids	55
Solenoid Cross Reference Guide	56
Engine Brake Tune-Up Kits	57
Replacement Engine Brake Parts for Jacobs	59
Caterpillar	59
Cummins	60
Detroit Diesel	62
Mack	64



DELIVERING CONSTANT BACKPRESSURE THROUGHOUT THE ENTIRE OPERATING RPM RANGE FOR UNMATCHED STOPPING POWER

PRXB XB PACBRAKE'S PRESSURE REGULATED EXHAUST BRAKE — for the Majority of Diesel Engines

PRXB offers the highest braking power to lowest price ratio available. Pacbrake's flagship product is the unquestioned leader in the supplemental brake industry. It has changed the way people think about exhaust brakes by providing performance, safety and durability that is unmatched by any other exhaust brake on the market.

- ▶ Delivers the strongest braking horsepower, greatest speed reductions & shortest stopping distances possible without the use of service brakes.
- ▶ Maintains optimum retarding performance by maximizing the exhaust backpressure throughout the entire operating RPM range.
- ▶ Delivers maximum exhaust pressure (braking) as low as 1200 RPM through to the maximum allowable engine RPM.
- ▶ Provides increased performance and peace of mind with technology that protects the engine from the potential of overpressure.

Upgrade any standard exhaust brake to a PRXB for an improved design and a longer lasting brake with significantly increased performance. Tow & haul with complete control.



PRXB EXHAUST BRAKE OPERATION

REGULATION SPRING

ARM (Operated By Spring)

BUTTERFLY VALVE (Closed)

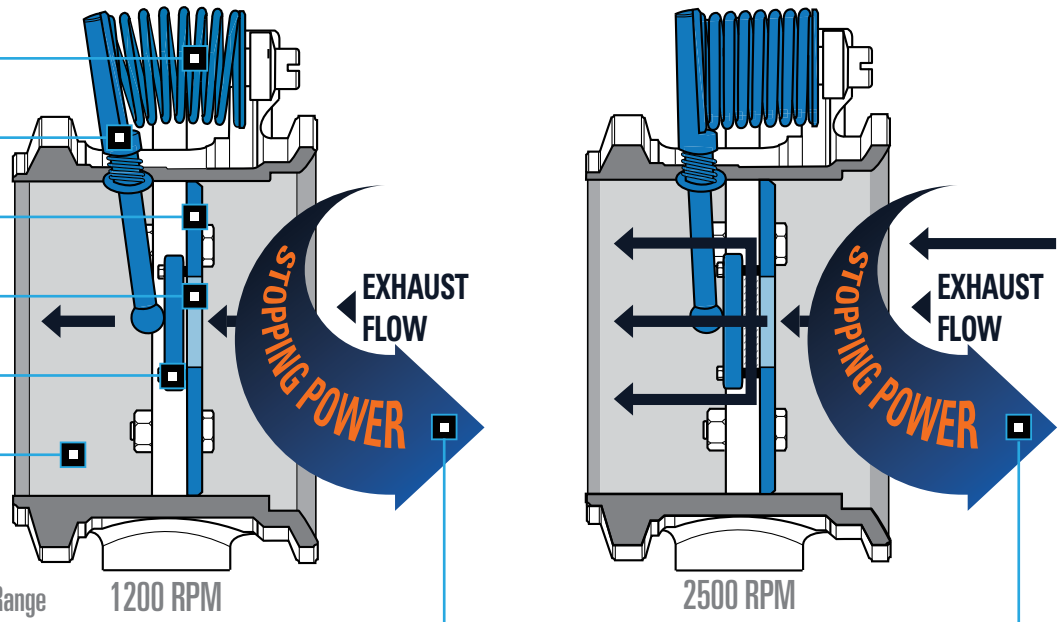
ORIFICE (Hole In Butterfly Valve)

WASTEGATE (Covering Orifice)

EXHAUST BRAKE HOUSING

BACKPRESSURE

Maximum Over The Entire Operating RPM Range

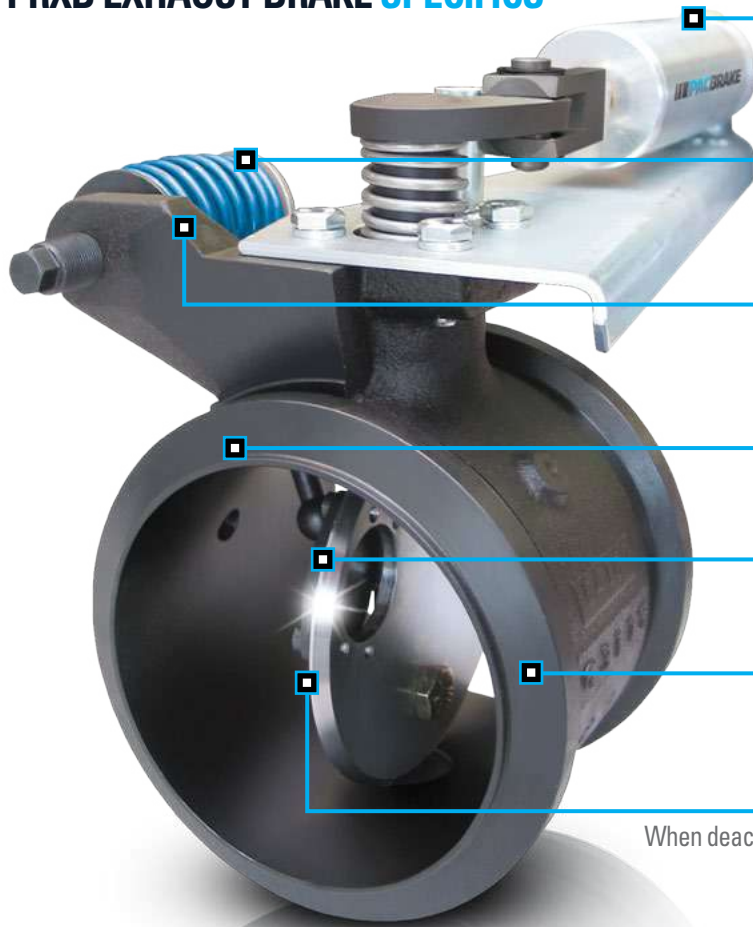


PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES

PRXB EXHAUST BRAKE SPECIFICS



STAINLESS STEEL SEALED AIR CYLINDER

Hard anodized aluminum & stainless steel body & shaft with high performance seals

AUTOMATIC LOW RPM ADJUSTMENT

Optimum retarding performance maintained by maximizing exhaust backpressure throughout the entire operating RPM range

MAXIMUM ALLOWABLE EXHAUST BACKPRESSURE LIMIT

Designed & factory preset to meet standards & requirements set by the engine manufacturer

NO OVERPRESSURE POTENTIAL

Spring controlled, pressure regulated mechanisms

90° CLOSING, NON-CONTACTING BUTTERFLY VALVE

Designed to maximize backpressure while preventing seizing

ARCOR® NITRIDE HOUSING & COMPONENTS

Industry exclusive process that increases resistance to wear & corrosion while strengthening & adding lubricity

FREE FLOW EXHAUST

When deactivated, exhaust flow is unrestricted and won't interfere with power output

PRECISION MOUNTING SURFACE

Both contacting surfaces are machined, eliminating the need for troublesome gaskets

Slows from 50 MPH to 20 MPH 1500 ft Sooner
than vehicles equipped with standard exhaust brakes

FEATURES & BENEFITS

- ▶ Delivers maximum backpressure throughout the entire operating RPM range
- ▶ Withstands extremely high exhaust temperatures
- ▶ Compliant with latest emission regulations
- ▶ Severe duty & military approved
- ▶ No risk of engine overpressure
- ▶ Decreased service brake wear

GET 50% MORE BRAKE POWER with PRXB Exhaust Brake Upgrades for RVs

Over 80% of diesel motorhomes have a non-pressure regulating fixed orifice Pacbrake (installed at the factory). Now it's time to take braking to a whole new level with Pacbrake's PRXB.

It is a direct, bolt-in upgrade resulting in a dramatic boost in performance over the existing fixed orifice exhaust brake. The PRXB will outperform any exhaust brake on the market in the low to mid RPM range.



EXHAUST BRAKE COMPLETE KIT COMPONENTS*



*Kit contents may vary

EVERY PRXB AUTOMOTIVE KIT COMES WITH EVERYTHING REQUIRED FOR A COMPLETE INSTALLATION

KIT CONTENTS: PRXB Exhaust Brake, Controller (when required, for some applications) & an Onboard Air Kit (HP325 Series Compressor, ½ Gallon Air Tank, 25 ft Curly Air Hose, Air Accessories & Fittings Kit).

HP325 AIR COMPRESSOR

These ¼ horsepower compressors have an oil-less design, sealed bearings, a PTFE piston ring, a copper wire wound permanent magnet motor and a hard anodized aluminum sleeve.

- 1.1 SCFM
- 150 PSI max working pressure
- - 40°F min / 158°F max ambient temperature

½ GALLON AIR TANK KIT

Working in conjunction with an air compressor, an air tank stores the compressed air until required. Storing air allows for quicker product activation and is especially valuable when operating more than one product.

- Welded on mounting brackets
- 2 - ¼" NPT ports
- Rust inhibitor applied to inside of tank
- 150 PSI max working pressure

AIR TANK CURLY HOSE & ACCESSORY KIT

A 25 ft curly hose with an assortment of accessories is easily stored in a heavy duty nylon bag. Attach the curly hose with the quick disconnect chuck to the compressor to perform a variety of tasks including: filling tires, checking air pressure & cleaning (dusting & quick removal of debris) etc.

HARNESS

Custom plug & play wiring harness with weather proof connectors. ‡

Hardware used in all kits are Grade 5. ‡

PRXB EXHAUST BRAKE OPTIONS



DirectMount

Pacbrake's DirectMount exhaust brakes go behind the turbo in place of the exhaust elbow. It's a direct bolt-on kit that is easy to install. No fabricating. †



InLineMount

Pacbrake's InLineMount exhaust brakes mount in the exhaust system between the engine and muffler/cat.

‡Where applicable

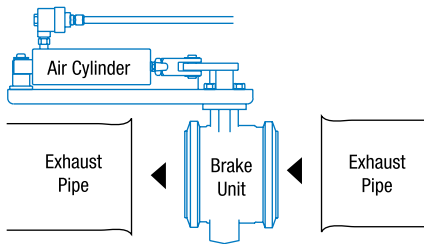
† For most applications

PRXB MOUNTING OPTIONS

INLINEMOUNT

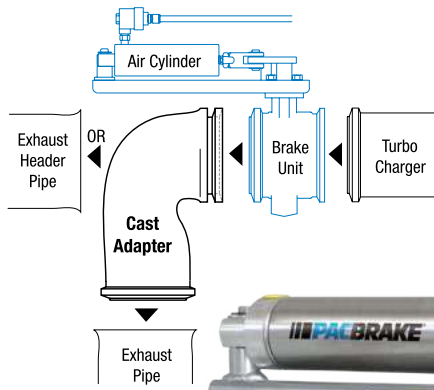
Some vehicle configurations do not allow for clearance around the turbocharger, for installation of a DirectMount exhaust brake, these applications require an InLineMount. Inline exhaust brakes require a minimum 7" of straight exhaust pipe which is then cut out and exhaust flange adapters are installed in its place. Ensure the exhaust brake is mounted as close to the turbocharger as possible and away from road spray.

NOTE: Clamped joints that exist between the brake and the engine must be welded to ensure that the joints cannot separate or leak under pressure. No flex pipe is allowed between the exhaust brake and the turbocharger.



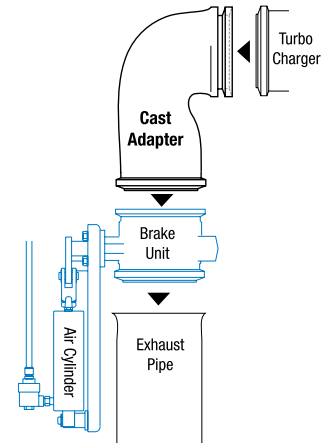
DIRECTMOUNT

This application is preferred because of the reduced number of connections between the exhaust brake and the turbocharger. The mating surfaces are both machined cast iron which eliminates any chance of exhaust leaks. For vehicles with straight back systems shortening of the header pipe is required to maintain an adequate amount of flex pipe. Vehicles with a 90° header pipe use a cast elbow to interface with the stock header pipe. Pacbrake offers replacement header pipes for some truck models.



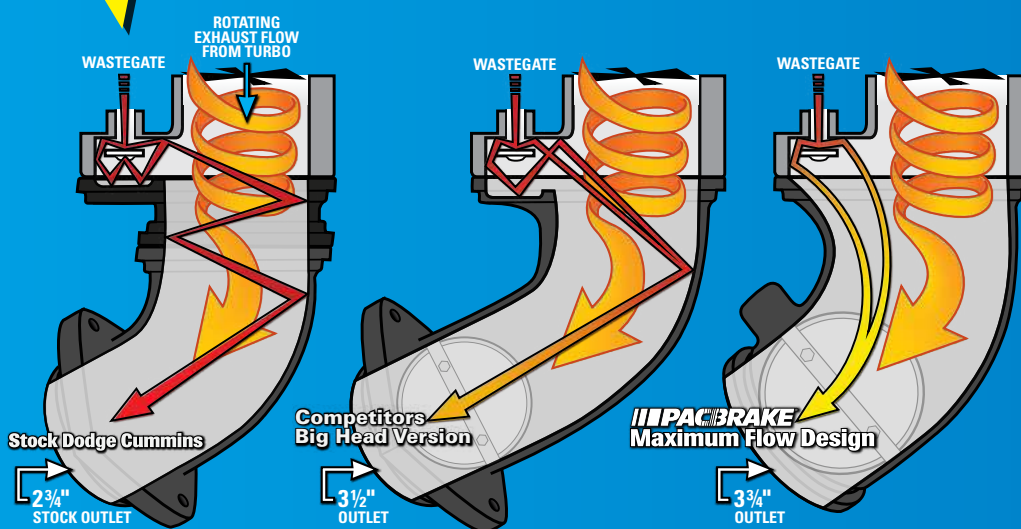
TURBO MOUNT WITH CAST ADAPTER

This application is the preferred option for vehicles with a tight 90° bent header pipe post turbocharger. The cast adapter is constructed from cast iron with machined mating surfaces on both ends, eliminating any chance of exhaust leaks.



MAX FLOW

- » Eliminates turbo lag
- » Gain in horsepower & torque
- » Lowers exhaust gas temperatures
- » Increases exhaust flow & fuel mileage



DODGE 1994-2002 (WITH 4" EXHAUST)

The maximum exhaust flow design accelerates the escape of gases through the wastegate which spools the turbocharger faster resulting in decreased turbo lag. In turn, this increases horsepower and torque while lowering exhaust gas temperatures. The brake's 5 bolt flange bolts directly to the turbocharger outlet (DirectMount design) eliminating the restrictive factory flange. Exhaust pipe adapters are available to fit factory and all larger aftermarket exhaust systems.

**PR
XB**

**STRONGEST BRAKING HORSEPOWER,
GREATEST SPEED REDUCTIONS**

ACCESSORIES

SWITCH-PAC

TRANSMISSION SHIFT-LEVER MOUNTED ON/OFF SWITCH

Pacbrake's transmission shift-lever mounted exhaust brake switch adds to driver convenience. This switch allows for fingertip control of the exhaust brake actuation from the transmission gear lever while you down shift.

Adding the Switch-Pac eliminates the need to drill a hole in the vehicle dash for a standard toggle switch. The sleek black finish matches the factory transmission gear lever and suits all interior colors. The C18040 and C18041 include a stylish light feature in the ON/OFF switch. Switch brackets are available to fit 3/4" and 5/8" transmission shift-levers and custom sizes can be built to suit all applications. (See PRXB Exhaust Brake Application Guide, page 8-14)

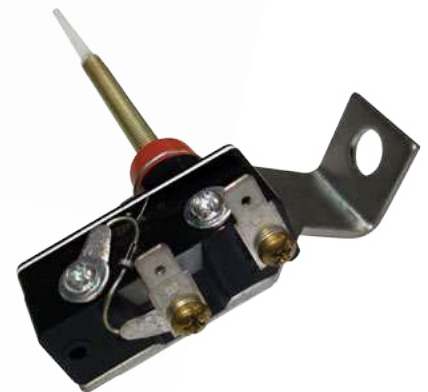


ECM BYPASS SYSTEM

FOR DODGE RAM DIESEL TRUCKS

If your engine's electronic control module (ECM) has a delay activating your Pacbrake exhaust brake this kit may be the answer. Pacbrake offers an ECM Bypass System which will reduce the delay in activating the exhaust brake by more than 50%. This kit contains an accelerator pedal mounted micro switch which comes with all the components for a complete installation.

Keep in mind that when bypassing the engines ECM you can loose some features designed into the ECM by the factory. 2003 and 2007 Dodge Rams have a warm-up feature programmed into the ECM which activates the exhaust brake at idle when the temperature is below 175° F. This feature will be lost and is generally not a concern for vehicles in warmer climates. Another feature that will be affected on manual transmission vehicles is the progressive braking feature. When you overshoot your cruise control set speed, the Pacbrake exhaust brake automatically activates and slows the vehicle to your preset cruise set speed.



DON'T LET STEEP HILLS OVERPOWER YOUR TRUCK'S BRAKING SYSTEM

EXHAUST BRAKE PRESSURE TESTER

A MUST HAVE FOR EXHAUST BRAKE TROUBLESHOOTING.

The C10600 Exhaust brake backpressure test kit allows for quick and easy diagnoses of exhaust brake performance issues. An exhaust brake can be compromised by a cracked manifold, exhaust leaks or an inoperative air systems.

Prepare for road test check or set exhaust brake back pressure. Pacbrake test gauge kit # C10600, contains all the necessary parts to perform back pressure testing. The gauge is a dampened (liquid filled) to accurately read backpressure.

- 1 Remove the 1/8" NPT plug located in the exhaust brake body and install fitting. Install the steel tube into the fitting installed in the exhaust brake. Insert fittings into the neoprene hose, moistening the fittings and firmly pushing the hose onto the barbed end. Install one end of the hose to the steel tube and the other to the gauge. Tighten all fittings securely. Route neoprene hose into cab.
- 2 Warm the engine to normal operating temperature.
- 3 Road test the vehicle by providing long durations of maximum RPM with the exhaust brake applied. This is best achieved with weight in the vehicle and a downhill grade.
- 4 Read and record the pressure achieved on the gauge at the governed engine speed. Consult the engine manufacture or Pacbrake technical support for specified back pressure.



GAUGE



COMPLETE KIT

PACBRAKE FOOT SWITCH

UNIVERSAL APPLICATIONS*

For vehicles with a supplemental braking system. The Pacbrake switch C11745 convenient floor-mounted ON/OFF switch provides easy access for exhaust brake activation.

*Not applicable for all applications.



**Greatly decreased
stopping distances without
the use of service brakes**

PACBRAKE



APPLICATION	EXHAUST SIZE	DESCRIPTION	PRXB KIT #	SWITCH PAC (OPTIONAL)	ECM BYPASS (OPTIONAL)
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DODGE RAM TRUCKS WITH STANDARD TRANSMISSIONS

1994-2002 DirectMount

1994-1998 Cummins 5.9L 6BT 12 Valve Engine with 3" Stock Exhaust with HX/HY35 Turbo	Stock ✱	DirectMount 4" PRXB Exhaust Brake Kit with MAX FLOW Design (Air Actuated). Comes with Air Tank, Hose & Accessories. Includes Heavy Duty Exhaust Valve Springs.	C44072	C18040	Included
1998½ Cummins 5.9L ISB 24 Valve Engine with 3" Stock Exhaust with HX/HY35 Turbo	Stock ✱	DirectMount 4" PRXB Exhaust Brake Kit with MAX FLOW Design (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44074 + C14004	C18041	C14004 (Required)
1999-2002 Cummins 5.9L ISB 24 Valve Engine with 3" Stock Exhaust with HX/HY35 Turbo	Stock ✱	DirectMount 4" PRXB Exhaust Brake Kit with MAX FLOW Design (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44074	C18041	C12015

1994-2002 InLineMount

1994-1998 Cummins 5.9L 6BT 12 Valve Engine	Stock ✱ ✱	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories. If the factory cast elbow has been removed a mounting group must be added.	C44060	C18040	Included
1998½ Cummins 5.9L ISB 24 Valve Engine	Stock ✱ ✱	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories. If the factory cast elbow has been removed a mounting group must be added.	C44062	C18041	Included
1999-2002 Cummins 5.9L ISB 24 Valve Engine	Stock ✱ ✱	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories. If the factory cast elbow has been removed a mounting group must be added.	C44064	C18041	C12015

* **NOTE:** All 1994-2002 trucks using a DirectMount kit that have 4" aftermarket exhaust systems require an additional adapter – C11342

** **NOTE:** For vehicle's in which the factory HX/HY35 turbo charger has been changed to an aftermarket turbo charger, use only an inline kit. A mounting group must also be purchased with the kit. **Exhaust Size:** 4" – C11400, 3.5" – C11420, 3" – C11440

2003-2004½ DirectMount

2003-2004 Cummins 5.9L ISB 24 Valve Engine (Built up to Jan 4, '04)	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44030	C18042	C14037
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). For Vehicles with Existing Onboard Air.	C44031	C18042	C14037
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake. UPGRADE – Replaces Fixed Orifice Exhaust Brake.	C40110 EXHAUST BRAKE ONLY	C18042	C14037

NOTE: All above DirectMount 2003-2007 kits will NOT work with Banks Turbo Back Monster® Exhaust. However, they will work with Banks Cat Back Monster® Exhaust.

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES



APPLICATION	EXHAUST SIZE	DESCRIPTION	PRXB KIT #	SWITCH PAC (OPTIONAL)	ECM BYPASS (OPTIONAL)
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DODGE RAM TRUCKS WITH STANDARD TRANSMISSIONS cont'

2003-2004½ DirectMount cont'

2004½ Cummins 5.9L ISB 24 Valve Engine (Built Jan 5, '04-Jul 25, '04)	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44045	C18042	C20135
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). For Vehicles with Existing Onboard Air.	C44037	C18042	C20135
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake. UPGRADE – Replaces Fixed Orifice Exhaust Brake.	C40111 EXHAUST BRAKE ONLY	C18042	C20135

2003-2004½ InLineMount

2003-2004 Cummins 5.9L ISB 24 Valve Engine (Built up to Jan 4, '04)	5"	InLineMount 5" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44047	C18042	C14037
2004½ Cummins 5.9L ISB 24 Valve Engine (Built Jan 5, '04-Jul 25, '04)	5"	InLineMount 5" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44047	C18042	C20135

NOTE: All above DirectMount 2003-2007 kits will NOT work with Banks Turbo Back Monster® Exhaust. However, they will work with Banks Cat Back Monster® Exhaust.

2003-2007 InLineMount

2003-2007 Cummins 5.9L ISB 24 Valve Engine	4"	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44068	C18042	C14037 (2003-2004) C20135 (2004½) C20141 (2005-2007)
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2005-2007 DirectMount

2005 Cummins 5.9L ISB 24 Valve Engine (Built Jul 26, '04-Jun 27, '05)	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44045	C18042	C20141
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). For Vehicles with Existing Onboard Air.	C44037	C18042	C20141
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake. UPGRADE – Replaces Fixed Orifice Exhaust Brake.	C40111 EXHAUST BRAKE ONLY	C18042	C20141
2006-2007 Cummins 5.9L ISB 24 Valve Engine (Built after Jun 27, '05)	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44045	C18042	N/A
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). For Vehicles with Existing Onboard Air.	C44037	C18042	N/A
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake. UPGRADE – Replaces Fixed Orifice Exhaust Brake.	C40111 EXHAUST BRAKE ONLY	C18042	N/A

NOTE: All above DirectMount 2003-2007 kits will NOT work with Banks Turbo Back Monster® Exhaust. However, they will work with Banks Cat Back Monster® Exhaust.

PRXB Exhaust Brake Application Guide



APPLICATION	EXHAUST SIZE	DESCRIPTION	PRXB KIT #	SWITCH PAC (OPTIONAL)	ECM BYPASS (OPTIONAL)
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DODGE RAM TRUCKS WITH STANDARD TRANSMISSIONS cont'

2005-2007 InLineMount					
2005 Cummins 5.9L ISB 24 Valve Engine (Built Jul 26, '04-Jun 27, '05)	5"	InLineMount 5" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44047	C18042	C20141
2006-2007 Cummins 5.9L ISB 24 Valve Engine (Built after Jun 27, '05)	5"	InLineMount 5" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44047	C18042	N/A

2007½-2018 InLineMount					
2007½-2018 Cummins 6.7L ISB 24 Valve Engine	4"	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44038	N/A	N/A
2007½-2018 Cummins 6.7L ISB 24 Valve Engine	5"	InLineMount 5" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44039	N/A	N/A

APPLICATION	EXHAUST SIZE	DESCRIPTION	PRXB KIT #	TRANSMISSION CONTROLLER
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DODGE RAM TRUCKS WITH AUTOMATIC TRANSMISSIONS

1994-2002 DirectMount				
1994-1995 Cummins 5.9L 6BT 12 Valve Engine - 47RH Auto Trans with 3" Stock Exhaust with HX/HY35 Turbo	Stock ✱	DirectMount 4" PRXB Exhaust Brake Kit with MAX FLOW Design (Air Actuated). Comes with Air Tank, Hose & Accessories. Includes Heavy Duty Exhaust Valve Springs.	C44073	Included
1996-1998 Cummins 5.9L 6BT 12 Valve Engine - 47RE Auto Trans with 3" Stock Exhaust with HX/HY35 Turbo	Stock ✱	DirectMount 4" PRXB Exhaust Brake Kit with MAX FLOW Design (Air Actuated). Comes with Air Tank, Hose & Accessories. Includes Heavy Duty Exhaust Valve Springs.	C44076	Included
1998½-2002 Cummins 5.9L ISB 24 Valve Engine - 47RE Auto Trans with 3" Stock Exhaust with HX/HY35 Turbo	Stock ✱	DirectMount 4" PRXB Exhaust Brake Kit with MAX FLOW Design (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44075	Included

* **NOTE:** All 1994-2002 trucks using a DirectMount kit that have 4" aftermarket exhaust systems require an additional adapter – C11342
 ** **NOTE:** For vehicle's in which the factory HX/HY35 turbo charger has been changed to an aftermarket turbo charger, use only an inline kit. A mounting group must also be purchased with the kit. **Exhaust Size:** 4" – C11400, 3.5" – C11420, 3" – C11440

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES



APPLICATION	EXHAUST SIZE	DESCRIPTION	PRXB KIT #	TRANSMISSION CONTROLLER
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DODGE RAM TRUCKS WITH AUTOMATIC TRANSMISSIONS cont'

1994-2002 InLineMount

1994-1995 Cummins 5.9L 6BT 12 Valve Engine - 47RH Auto Trans	Stock ✖ ✖	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories. If the factory cast elbow has been removed a mounting group must be added.	C44059	Included
1996-1998 Cummins 5.9L 6BT 12 Valve Engine - 47RE Auto Trans	Stock ✖ ✖	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories. If the factory cast elbow has been removed a mounting group must be added.	C44061	Included
1998½ Cummins 5.9L ISB 24 Valve Engine - 47RE Auto Trans	Stock ✖ ✖	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories. If the factory cast elbow has been removed a mounting group must be added.	C44063	Included
1999-2002 Cummins 5.9L ISB 24 Valve Engine - 47RE Auto Tran	Stock ✖ ✖	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories. If the factory cast elbow has been removed a mounting group must be added.	C44065	Included

* **NOTE:** All 1994-2002 trucks using a DirectMount kit that have 4" aftermarket exhaust systems require an additional adapter – C11342

** **NOTE:** For vehicle's in which the factory HX/HY35 turbo charger has been changed to an aftermarket turbo charger, use only an inline kit. A mounting group must also be purchased with the kit. **Exhaust Size:** 4" – C11400, 3.5" – C11420, 3" – C11440

2003-2004½ DirectMount

2003-2004 Cummins 5.9L ISB 24 Valve Engine - 47 / 48RE Auto Trans (Built up to Jan 4, '04)	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44049	Included
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). For Vehicles with Existing Onboard Air.	C44032	Included
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake. UPGRADE – Replaces Fixed Orifice Exhaust Brake.	C40110 EXHAUST BRAKE ONLY	Not Included
2004½ Cummins 5.9L ISB 24 Valve Engine - 48RE Auto Trans (Built Jan 5, '04-Jul 25, '04)	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44052	Included
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). For Vehicles with Existing Onboard Air.	C44033	Included
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake. UPGRADE – Replaces Fixed Orifice Exhaust Brake.	C40111 EXHAUST BRAKE ONLY	Not Included

NOTE: All above DirectMount 2003-2007 kits will NOT work with Banks Turbo Back Monster® Exhaust. However, they will work with Banks Cat Back Monster® Exhaust.



APPLICATION	EXHAUST SIZE	DESCRIPTION	PRXB KIT #	TRANSMISSION CONTROLLER
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DODGE RAM TRUCKS WITH AUTOMATIC TRANSMISSIONS cont'

2003-2004½ InLineMount

2003-2004 Cummins 5.9L ISB 24 Valve Engine - 47/48RE Auto Trans (Built up to Jan 4, '04)	5"	InLineMount 5" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44051	Included
2004½ Cummins 5.9L ISB 24 Valve Engine - 48RE Auto Trans (Built Jan 5, '04-Jul 25, '04)	5"	InLineMount 5" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44051	Included

NOTE: All above DirectMount 2003-2007 kits will NOT work with Banks Turbo Back Monster® Exhaust. However, they will work with Banks Cat Back Monster® Exhaust.

2003-2007 InLineMount

2003-2005 Cummins 5.9L ISB 24 Valve Engine - 47/48RE Auto Trans (Built up to Jun 27, '05)	4"	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44067	Included
2006-2007 Cummins 5.9L ISB 24 Valve Engine - 48RE Auto Trans (Built after Jun 27, '05)	4"	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44068	N/A

2005-2007 DirectMount

2005 Cummins 5.9L ISB 24 Valve Engine - 48RE Auto Trans (Built up to Jun 27, '05)	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44052	Included
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). For Vehicles with Existing Onboard Air.	C44033	Included
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake. UPGRADE – Replaces Fixed Orifice Exhaust Brake.	C40111 EXHAUST BRAKE ONLY	Not Included
2006-2007 Cummins 5.9L ISB 24 Valve Engine - 48RE Auto Trans (Built after Jun 27, '05)	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44045	N/A
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). For Vehicles with Existing Onboard Air.	C44037	N/A
	Stock	DirectMount 4" PRXB High Performance Exhaust Brake. UPGRADE – Replaces Fixed Orifice Exhaust Brake.	C40111 EXHAUST BRAKE ONLY	N/A

NOTE: All above DirectMount 2003-2007 kits will NOT work with Banks Turbo Back Monster® Exhaust.



APPLICATION	EXHAUST SIZE	DESCRIPTION	PRXB KIT #	TRANSMISSION CONTROLLER
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DODGE RAM TRUCKS WITH AUTOMATIC TRANSMISSIONS cont'

2005-2007 InLineMount

2005 Cummins 5.9L ISB 24 Valve Engine - 48RE Auto Trans (Built up to Jun 27, '05)	5"	InLineMount 5" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44051	Included
2006-2007 Cummins 5.9L ISB 24 Valve Engine - 48RE Auto Trans (Built after Jun 27, '05)	5"	InLineMount 5" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44047	N/A

2007½-2018 InLineMount

2007½-2018 Cummins 6.7L ISB 24 Valve Engine - 68RFE Auto Trans	4"	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44038	N/A
2007½-2018 Cummins 6.7L ISB 24 Valve Engine - 68RFE Auto Trans	5"	InLineMount 5" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C44039	N/A

APPLICATION	DESCRIPTION	PRXB KIT #	SWITCH PAC (OPTIONAL)	ECM BYPASS (OPTIONAL)
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FORD TRUCKS WITH STANDARD TRANSMISSIONS

1995-2007 InLineMount

1995-1998 Powerstroke 7.3L 16 Valve Engine (Built before November 1998)	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C40008	N/A	N/A
1999-2003 Powerstroke 7.3L 16 Valve Engine (Built November 1998 & newer)	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C40009	C18041	N/A
2003-2007 Powerstroke 6.0L 32 Valve Engine	InLineMount 4" PRXB Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C40010	Included	N/A

NOTE: All above kits are for vehicles with factory exhaust systems. Vehicles with aftermarket 4" O.D. exhaust systems will need 2 adapters – C11342



PRXB/EXHAUST BRAKES

APPLICATION	DESCRIPTION	PRXB KIT #	SWITCH PAC (OPTIONAL)	TRANSMISSION CONTROLLER
FORD TRUCKS WITH AUTOMATIC TRANSMISSIONS				
1995-2007 InLineMount				
1995-1998 Powerstroke 7.3L 16 Valve Engine - E40D Auto Trans (Built before November 1998)	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C40008	N/A	REQUIRED (Call Pacbrake)
1999-2003 Powerstroke 7.3L 16 Valve Engine - 4R110 Auto Trans (Built November 1998 & newer)	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C40019	N/A	Included
2003-2007 Powerstroke 6.0L 32 Valve Engine - 5R140 Auto Trans	InLineMount 4" PRXB Exhaust Brake Kit with (Air Actuated). Comes with Air Tank, Hose & Accessories.	C40007	N/A	Included

NOTE: All above kits are for vehicles with factory exhaust systems. Vehicles with aftermarket 4" O.D. exhaust systems will need 2 adapters – C11342

APPLICATION	DESCRIPTION	PRXB KIT #
GM TRUCKS WITH AUTOMATIC TRANSMISSIONS (LB7/LLY/LBZ)		
2001-2007 InLineMount		
2001-2005 Duramax 6.6L 32 Valve Engine-Allison 1000 Series Auto Trans without optional 2nd alternator	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C40075
2006-2007 Classic Duramax 6.6L 32 Valve Engine-Allison 1000 Series Auto Trans without optional 2nd alternator	InLineMount 4" PRXB High Performance Exhaust Brake Kit (Air Actuated). Comes with Air Tank, Hose & Accessories.	C40070

NOTE: C40070 & C40075 Kits are designed for vehicles without optional 2nd alternator. Vehicles with the 2nd alternator, will have to fabricate their own mounting for the compressor.

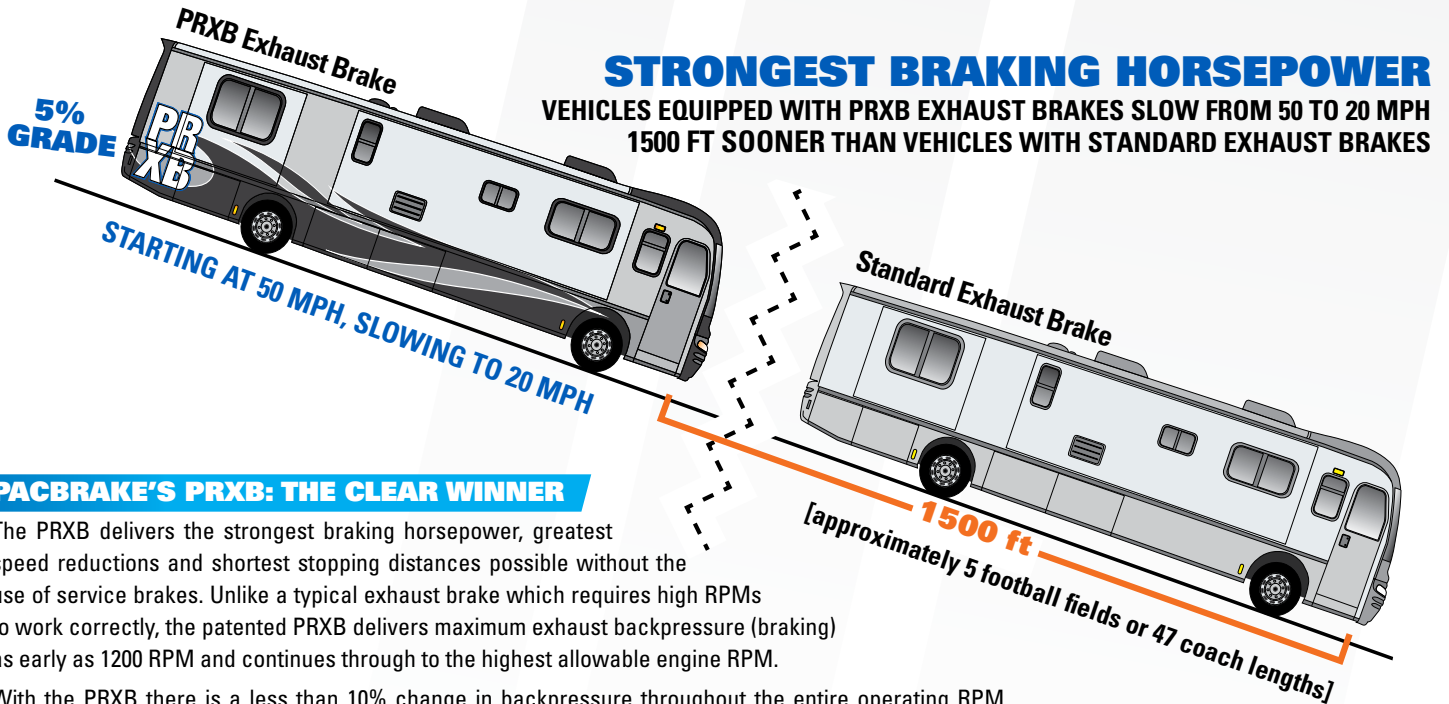
All above kits are for vehicles with factory exhaust systems. Vehicles with aftermarket 4" O.D. exhaust systems will need 2 adapters – C11342

CHECK VIN #: Check the vehicles VIN to confirm the 8th digit is either a 1, 2 or letter D. These vehicles are approved for Pacbrake PRXB kits

VIN NUMBER	8TH DIGIT OF VIN	YEARS	ENGINE RPO CODE	PRXB PART #	DESCRIPTION/APPLICATION
	1 or 2	2001-2005	LB7/LLY	C40075	Automatic Transmission only. Vehicles without optional 2nd alternator
	D	2006-2007	LLY/LBZ	C40070	Automatic Transmission only. Vehicles without optional 2nd alternator
	D	2006-2007.5	LLY/LBZ	C40070	Automatic Transmission only. Vehicles without optional 2nd alternator

MAINTENANCE	
Superlube – Exhaust Brake Maintenance	C18037

PRXB PACBRAKE'S PRESSURE REGULATED EXHAUST BRAKE RV UPGRADES

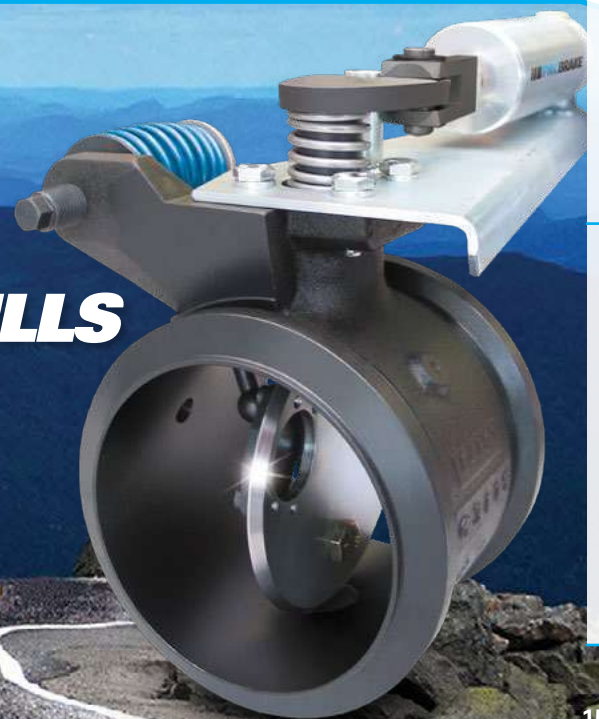


PACBRAKE'S PRXB: THE CLEAR WINNER

The PRXB delivers the strongest braking horsepower, greatest speed reductions and shortest stopping distances possible without the use of service brakes. Unlike a typical exhaust brake which requires high RPMs to work correctly, the patented PRXB delivers maximum exhaust backpressure (braking) as early as 1200 RPM and continues through to the highest allowable engine RPM.

With the PRXB there is a less than 10% change in backpressure throughout the entire operating RPM range. This is a result of a wastegate integrated into the butterfly valve that regulates the amount of exhaust flow being passed through. The flow is controlled by a spring loaded arm, whose pressure rating and location are key factors in the functionality of the PRXB. Located outside of the housing and away from the heat, the spring is able to maintain its strength and durability for years of proper and precise braking performance.

Notice the difference while
DRIVING THROUGH MOUNTAIN PASSES & DOWN STEEP HILLS





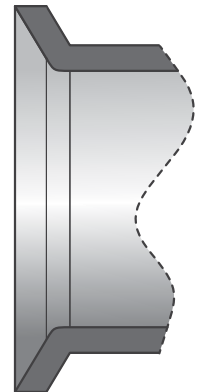
PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

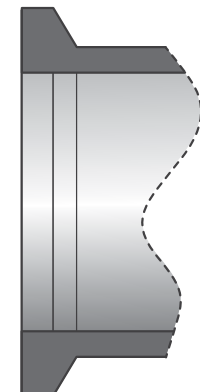
PACBRAKE ENGINE BRAKES

ENGINE MODEL	FLANGE	PRXB PART#	FRONT CLAMP ATTACHES TO TURBO	REAR CLAMP ATTACHES TO EXHAUST
RV UPGRADES (BRAKE ONLY)				
Cummins C8.3	4" Half Marmon	C40100	C11355 (x1)	C11350 (x1)
Cummins C8.3	4" Full Marmon	C40101	C10310 (x1)	C11350 (x1)
Cummins ISL †	4" Half Marmon	C40102	C11355 (x1)	C11350 (x1)
Cummins ISL †	4" Full Marmon	C40103	C11355 (x1)	C11350 (x1)
Caterpillar 3116 / 3116E / 3126	4" Full Marmon	C40105	C10310 (x1)	C11350 (x1)
Caterpillar 3126B / C-7	4" Full Marmon	C40106B	C10310 (x1)	C11350 (x1)
Cummins ISC	4" Full Marmon	C40107	C10310 (x1)	C11350 (x1)
Cummins ISC	4" Full Marmon	C40108	C11355 (x1)	C11350 (x1)
Cummins ISC	4" Half Marmon	C40109	C11355 (x1)	C11350 (x1)
Caterpillar 3126B / C-7	4" Inline	C40113	C11350 (x2)	
Cummins ISL †	4" Full Marmon	C40114	C10310 (x1)	C11350 (x1)
Cummins C8.3	4" Inline	C40115	C11350 (x2)	
Cummins ISB	4" Inline	C40116	C11350 (x2)	
Cummins ISC	4" Inline	C40117	C11350 (x2)	
Caterpillar 3116 / 3126	4" Inline	C40119	C11350 (x2)	
Caterpillar C-9	5" Full Marmon	C40203	C11750 (x1)	C10620 (x1)
Caterpillar C-9	5" Inline	C40206	C10720 (x1)	C10620 (x1)
Cummins ISB pre Oct '02	3.5" Full Marmon	C40301	C14094 (x1)	C20063 (x1)
Cummins ISB post Oct '02	3.5" Full Marmon	C40304	C14094 (x1)	C20063 (x1)
Cummins ISC/ISL	3.5" Full Marmon	C40017*	C11355 (x1)	C20065 (x1)
Cummins ISC CPL 1096 Only †	3.5" Full Marmon	C40020*	C11355 (x1)	C20065 (x1)

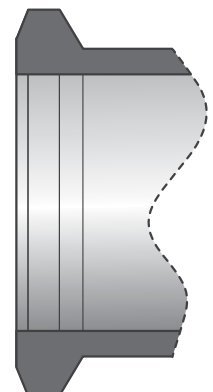
FLANGE STYLES



FULL MARMON



HALF MARMON



INLINE

† ISL WITH CPL 1096 MUST USE C40020

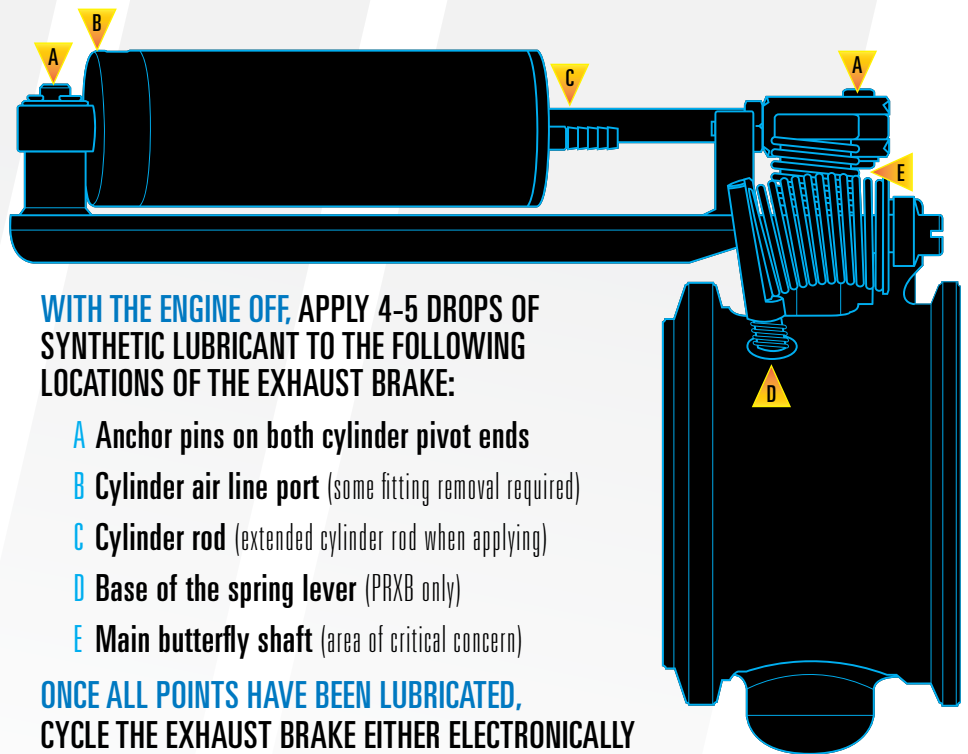
* KIT INCLUDES STAINLESS STEEL V-CLAMPS.

SUPERLUBE

SuperLube is a multi-purpose, high-heat resistant, synthetic lubricant that penetrates and protects exhaust brakes from binding or sticking.

Superior to petroleum based lubricants, SuperLube's long-lasting high quality formula was specifically developed to reduce friction wear as well as prevent rust & corrosion, making it a must-have for vehicles exposed to excess moisture and for preparing vehicles for storage that are used seasonally.

- » HIGH HEAT-RESISTANT SYNTHETIC LUBRICANT
- » DIAGRAM ON BOTTLE INDICATES EXHAUST BRAKE LUBE POINTS
- » LONG-LASTING / HIGH QUALITY / SUPERIOR TO PETROLEUM BASED LUBES
- » OUTSTANDING LUBRICATING QUALITIES FOR HARSH ENVIRONMENT



WITH THE ENGINE OFF, APPLY 4-5 DROPS OF SYNTHETIC LUBRICANT TO THE FOLLOWING LOCATIONS OF THE EXHAUST BRAKE:

- A** Anchor pins on both cylinder pivot ends
- B** Cylinder air line port (some fitting removal required)
- C** Cylinder rod (extended cylinder rod when applying)
- D** Base of the spring lever (PRXB only)
- E** Main butterfly shaft (area of critical concern)

ONCE ALL POINTS HAVE BEEN LUBRICATED, CYCLE THE EXHAUST BRAKE EITHER ELECTRONICALLY OR MANUALLY TO WORK-IN THE LUBRICANT.

PART# C18037

AUTOMOTIVE | HUNTING | FISHING | MARINE | HOUSEHOLD | HOBBY

PACBRAKE

PR XB

PACBRAKE'S PRESSURE REGULATED EXHAUST BRAKES

— for the Majority of Diesel Engines



Don't Let
**STEEP HILLS
OVERPOWER**
Your Truck

**EXCEEDS ALL COMPETITORS
BRAKING PERFORMANCE**

- » Increased Driving Control
- » Shortened Stopping Distances
- » Reduced Service Brake Wear



EVERY* AUTOMOTIVE PRXB KIT INCLUDES
AN ONBOARD AIR SYSTEM

Compressor • Air Tank • Air Accessories Kit

*Excluding kits designed specifically for vehicles with an existing onboard air system

Medium Duty Exhaust Brake Application Guide



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ENGINE***	NOTES	COMPLETE KITS		BRAKES		MOUNTING GROUP	CONTROL GROUP w/ ONBOARD AIR		CONTROL GROUP w/o ONBOARD AIR	
		VEHICLES w/ OBA†	VEHICLES w/o OBA†	EXB	PRXB		CONTROL GROUP VEHICLES w/ OBA†	INFO GROUP	CONTROL GROUP VEHICLES w/o OBA†	INFO GROUP
FORD										
F450/550 (SEE LIGHT DUTY APPLICATIONS)										
F650										
7.3 Powerstroke 3' Exhaust		N/A	N/A	C20366	C40104	C11440	N/A	N/A	C11808	L7041
Cat 3126B/E/C7	Late 90° pipe	N/A	N/A	N/A	C40113	C11400	C10319	L7024	C11775	L7043
		C20650 (EXB)	C20655 (EXB)	C20353	C40106B	C11558	C10319	L7024	C11775	L7043
F750										
7.3 Powerstroke 3' Exhaust		N/A	N/A	C20366	C40104	C11440	N/A	N/A	C11808	L7041
Cat 3126B/E/C7	Late 90° pipe	N/A	N/A	N/A	C40113	C11400	C10319	L7024	C11775	L7043
		C20650 (EXB)	C20655 (EXB)	C20353	C40106B	C11558	C10319	L7024	C11775	L7043
Cat 3126B/E/C7	2004+ Horizontal pipe	N/A	N/A	C20353	C40106B	C10310	C10319	L7024	C11775	L7043
Powerstroke 6.0L										
Cummins ISB 02 EGR up to 230 HP	Engines built after Oct '02.									
LCF										
Powerstroke 4.5L		TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA
FREIGHTLINER										
FL50/60/ 70/80										
Cat 3116 **		N/A	N/A	C20350	C40105	C11558	C10318	L7024	C11774	L7043
Cat 3116E/3126		N/A	N/A	C20350	C40105	C11558	C10319	L7024	C11775	L7043
Cat 3126B/C7 (Built pre 2000)		C20650 (EXB)	C20655 (EXB)	C20353	C40106B	C11558	C10319	L7024	C11775	L7043
Cat C7 (Built post 2000)		C12026 (EXB)	C12027 (EXB)	C20353	C40106B	C11546	C10319	L7024	C11775	L7043
Cummins B5.9L *	3" Exhaust pipe	N/A	N/A	C10295	N/A	C11542	C10211	L7044	C11773	L7045
	3 1/2" Exhaust pipe	N/A	N/A	C10295	N/A	C11543	C10211	L7044	C11773	L7045
Cummins ISB (Built prior to Oct '02)	3" Exhaust pipe	C17101 (EXB)	C17201 (EXB)	C10299	C40304	C11542 (EXB) C11555 (PRXB)	C10218	L7044	C11753	L7045
	3 1/2" Exhaust pipe	C17151 (EXB)	C17251 (EXB)	C10299	C40304	C11543 (EXB) C11574 (PRXB)	C10218	L7044	C11753	L7045
Cummins C8.3L *		C13036 (EXB)	N/A	C20340	C40101	C11546	C10211	L7044	C11753	L7045
Cummins ISC	Engines built before Oct '03.	C16070 (EXB)	N/A	C20395	C40107	C11546	C10218	L7044	C11753	L7045

† OBA – ONBOARD AIR
 * ENGINES MAY REQUIRE HEAVY DUTY VALVE SPRINGS
 ** CALL TO VERIFY APPLICATION
 *** MORE APPLICATIONS AVAILABLE CALL FOR INFORMATION

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ENGINE***	NOTES	COMPLETE KITS		BRAKES		MOUNTING GROUP	INDIVIDUAL GROUPS			
		VEHICLES w/ OBA†	VEHICLES w/o OBA†	EXB	PRXB		CONTROL GROUP w/ ONBOARD AIR		CONTROL GROUP w/o ONBOARD AIR	
							CONTROL GROUP VEHICLES w/ OBA†	INFO GROUP	CONTROL GROUP VEHICLES w/o OBA†	INFO GROUP
FREIGHTLINER cont'										
M2 - 106										
Cat C7		N/A	N/A	C20353	C40106B	C11546	C20123 + F/L Switch A06-37217-056	L7055	C20124 + F/L Switch A06-37217-056	L7055
Cat C9		N/A	N/A	C20277	TBA	C11750 + F/L pipe	C20123 + F/L Switch A06-37217-056	L7055	C20124 + F/L Switch A06-37217-056	L7055
Cummins ISC	Engines built after Oct '03	N/A	N/A	C20393	TBA	C11350 + F/L pipe	C20123 + F/L Switch A06-37217-056	L7055	C20124 + F/L Switch A06-37217-056	L7055
M2 - 112										
Cat C9		N/A	N/A	C20278	C40203	C11556	C20123 + F/L Switch A06-37217-056	L7055	C20124 + F/L Switch A06-37217-056	L7055
CARGO										
Cummins ISB (Built prior to Oct '02)		N/A	N/A	C10277	N/A	C11542	C10218	L7044	C11753	L7045
	w/ 3" exhaust pipe	N/A	N/A	C10277	N/A	C11542	C10218	L7044	C11753	L7045
	w/ 3 1/2" exhaust pipe	N/A	N/A	C10277	N/A	C11543	C10218	L7044	C11753	L7045
Cummins ISB EGR up to 230 HP	Engines built after Oct '02	N/A	N/A	C10901	C40301	C11606 (EXB) C11604 (PRXB)	C10218	L7044	C11753	L7045
GMC/CHEVROLET										
C4500/5500**										
Isuzu 6.6 L	Engine ECUs w/ 2-56 pin & 1-72 pin connector only Trucks built before 2006 **	C20045 (EXB)	C20046 (EXB)	C20044	C40300	C20040	C20041 + C19500 Dash Switch	L7050	C20042 + C19500 Dash Switch	L7050
C6500/7500/ 8500										
Cat 3116 **		C12004 (EXB)	C12005 (EXB)	C20350	C40105	C10310	C10318	L7024	C11774	L7043
Cat 3116E/3126		C12009 (EXB)	C12011 (EXB)	C20350	C40105	C10310	C10319	L7024	C11775	L7043
Cat 3126B/E/C7		C20650 (EXB)	C20655 (EXB)	C20353	C40106B	C11558	C10319	L7024	C11775	L7043
T6500/750/ 8500										
Cat 3116E/3126		N/A	N/A	C20350	C40105	C11558	C10319	L7024	C11775	L7043
Cat 3126B/E/C7		C20650 (EXB)	C20655 (EXB)	C20353	C40106B	C11558	C10319	L7024	C11775	L7043
C4500/5500*** WABCO REPLACEMENT										
Isuzu 6.6L	***This kit includes 3.5" Exhaust adapters	C44048	C44048	N/A	N/A	N/A	N/A	N/A	N/A	N/A

† OBA – ONBOARD AIR
 * ENGINES MAY REQUIRE HEAVY DUTY VALVE SPRINGS
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PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES

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ENGINE***	NOTES	INDIVIDUAL GROUPS								
		COMPLETE KITS		BRAKES		MOUNTING GROUP	CONTROL GROUP w/ ONBOARD AIR		CONTROL GROUP w/o ONBOARD AIR	
		VEHICLES w/ OBA†	VEHICLES w/o OBA†	EXB	PRXB		CONTROL GROUP VEHICLES w/ OBA†	INFO GROUP	CONTROL GROUP VEHICLES w/o OBA†	INFO GROUP
KENWORTH										
T300										
Cat 3116E/3126		N/A	N/A	C20350	C40105	C11558	C10319	L7024	C11775	L7043
Cat 3126B / C7 (Pre 2004)		N/A	N/A	C20353	C40106B	C11558	C10319	L7024	C11775	L7043
Cat C7 (2004+)		C20650 (EXB)	C20655 (EXB)	C20353	C40106B	C11558	C10319	L7024	C11775	L7043
Cummins ISB 02 EGR up to 230 HP	Engines built after Oct '02	N/A	N/A	C10901	C40301	C11563 (EXB) C11564 (PRXB)	C10218	L7044	C11753	L7045
Cummins C8.3 L *	Engines built before Oct '03	N/A	N/A	C20340	C40101	C11561 + Cust Supplied Flex	C10211	L7044	C11773	L7045
Cummins ISC	Engines built after Oct '03	N/A	N/A	C20395	C40107	C11561 + Cust Supplied Flex	C10218	L7044	C11753	L7045
Cummins ISC	Trucks built before Jan '05	N/A	N/A	C20394	C40107	C11559 + Cust Supplied Flex	C10218	L7044	C11753	L7045
Cummins ISC	Trucks built after Jan '05	N/A	N/A	C20394	C40107	C11591 + Cust Supplied Flex	C10218	L7044	C11753	L7045
T800SH										
Cummins ISL (2004+)		N/A	N/A	C20346	C40103	C11554	C10218	L7044	C11753	L7045
W900S										
Cummins ISL (2004+)		N/A	N/A	C20346	C40103	C11554	C10218	L7044	C11753	L7045
NAVISTAR/IHC										
1000 SERIES										
VT365 6.0L		N/A	TBA (PRXB)	N/A	TBA	TBA	N/A	N/A	TBA	TBA
3800/4700/4900/5000/7000 SERIES (w/ 90° PIPE)										
DT466E (1998-99)	Pre 1998 call for application	N/A	N/A	C20379	C40302	C11550 (EXB) C11583 (PRXB)	C10216	L7028	C11808	L7041
DT466E (2000-04 1/2)	w/o multiplex wiring Built before Jan '04	N/A	N/A	C20371	C40303	C11550 (EXB) C11583 (PRXB)	C10216	L7028	C11808	L7041
DT466E	Built after Jan '04	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA
DT/HT530E (Pre 2002)	w/o multiplex wiring	N/A	N/A	C20373	C40302	C11550 (EXB) C11583 (PRXB)	C10216	L7028	C11808	L7041
T444E 7.3L	InLineMount	N/A	N/A	C20366	C40104	C11440	C10216	N/A	C11777	L7041
4200										
VT365 6.0L		N/A	TBA (PRXB)	N/A	TBA	TBA	N/A	N/A	TBA	TBA

† OBA – ONBOARD AIR
* ENGINES MAY REQUIRE HEAVY DUTY VALVE SPRINGS

** CALL TO VERIFY APPLICATION
*** MORE APPLICATIONS AVAILABLE CALL FOR INFORMATION

Medium Duty Exhaust Brake Application Guide



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ENGINE***	NOTES	INDIVIDUAL GROUPS								
		COMPLETE KITS		BRAKES		MOUNTING GROUP	CONTROL GROUP w/ ONBOARD AIR		CONTROL GROUP w/o ONBOARD AIR	
		VEHICLES w/ OBA†	VEHICLES w/o OBA†	EXB	PRXB		CONTROL GROUP VEHICLES w/ OBA†	INFO GROUP	CONTROL GROUP VEHICLES w/o OBA†	INFO GROUP
NAVISTAR/IHC cont'										
4300/4400										
VT365 6.0L		N/A	TBA (PRXB)	N/A	TBA	TBA	N/A	N/A	TBA	TBA
DT466E (2000-2004 1/2)	w/ multiplex wiring	N/A	N/A	C20371	C40303	C11550 (EXB) C11583 (PRXB)	C10220	L7049	C11777	L7041
DT530E (2000-2004 1/2)	w/ multiplex wiring	N/A	N/A	C20373	C40303	C11550 (EXB) C11583 (PRXB)	C10220	L7049	C11777	L7041
HT530E (2002+)	w/ multiplex wiring	N/A	N/A	C20375	C40302	C11550 (EXB) C11583 (PRXB)	C10220	L7049	C11777	L7041
7000 SERIES (w/ 30° PIPE)										
DT466E (2000-2004 1/2)		N/A	N/A	C20371	C40303	C11360 (EXB) + Intl Pipe # 3575127C1	C10216	L7028	C11808	L7041
	w/o Multiplex wiring built before Jan '04	N/A	N/A	C20371	C40303	C20063 (PRXB) + Intl Pipe # 3575127C1	C10216	L7028	C11808	L7041
DT466E (2004 1/2)	Built after Jan '04	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA
DT/HT530E (Pre 2002)	w/o multiplex wiring	N/A	N/A	C20373	C40302	C11360 (EXB) + Intl Pipe # 3575127C1 C20063 (PRXB) + Intl Pipe # 3575127C1	C10216	L7028	C11808	L7041
HT530E (2002+)	w/ multiplex wiring	N/A	N/A	C20375	C40302	C11360 (EXB) + Intl Pipe # 3575128C1 C20063 (PRXB) + Intl Pipe # 3575128C1	C10220	L7049	C11777	L7049
8000 SERIES										
DT/HT530E (Pre 2002)		N/A	N/A	C20373	C40302	C11584 (EXB) C11586 (PRXB)	C10216	L7028	C11808	L7041
HT530E (2002+)		N/A	N/A	C20375	C40302	C11584 (EXB) C11586 (PRXB)	C10220	L7049	C11777	L7049
8100 W/ ABS										
Cummins ISM (Pre Oct '02)		C13057 (EXB)	N/A	C20265	C40204	C11750	C10224	L7044	N/A	N/A
9100 W/ ABS										
Cummins ISM (Pre Oct '02)		C13057 (EXB) + C11544	N/A	C20265	C40204	C11750 + C11544	C10224	L7044	N/A	N/A
CF										
VT275 4.5L		TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA

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ENGINE***	NOTES	INDIVIDUAL GROUPS								
		COMPLETE KITS		BRAKES		MOUNTING GROUP	CONTROL GROUP w/ ONBOARD AIR		CONTROL GROUP w/o ONBOARD AIR	
		VEHICLES w/ OBA†	VEHICLES w/o OBA†	EXB	PRXB		CONTROL GROUP VEHICLES w/ OBA†	INFO GROUP	CONTROL GROUP VEHICLES w/o OBA†	INFO GROUP
NAVISTAR/IHC cont'										
CXT										
DT466E (2004 1/2+)		TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA
DT/HT466/530	All w/ multiplex wiring	N/A	N/A	Above	Above	Above	C10220	L7049	C11777	L7049
DT466E (2000-2004 1/2)	Jake exhaust brake replacement unit (InLineMount 3.5")	C40016	N/A	N/A		N/A	N/A	N/A	N/A	N/A
DT466E (Pre-2000)/DT530E/HT530E	Jake exhaust brake replacement unit (InLineMount 3.5")	C40015	N/A	N/A		N/A	N/A	N/A	N/A	N/A

PETERBILT

320										
Cat 3126B/E/C7		C12026 (EXB)	C12027 (EXB)	C20353	C40106B	C11546	C10319	L7024	C11775	L7043
Cat C10		N/A	N/A	TBA	TBA	C11556	C10319	L7024	N/A	N/A
Cummins ISC	Engines built before Oct '03	C16070 (EXB)	N/A	C20395	C40107	C11554	C10218	L7044	C11753	L7045
Cummins ISC	Engines built after Oct '03	N/A	N/A	C20387	C40108	C11554	C10218	L7044	C11753	L7045
Cummins ISL	Engines built before Oct '03	N/A	N/A	C20358	C40103	C11554	C10218	L7044	C11753	L7045
Cummins ISL	Engines built after Oct '03	N/A	N/A	C20346	C40103	C11554	C10218	L7044	C11753	L7045
330/335										
Cat 3116E/3126		N/A	N/A	C20350	C40105	C11558	C10319	L7024	C11775	L7043
Cat 3126B/E/C7		C20650 (EXB)	C20655 (EXB)	C20353	C40106B	C11558	C10319	L7024	C11775	L7043
Cummins C8.3L *		N/A	N/A	C20325	C40100	C11562	C10211	L7044	C11773	L7045
Cummins ISC	Engines built before Oct '03	N/A	N/A	C20335	C40109	C11562 + Cust Supplied Flex	C10218	L7044	C11753	L7045
Cummins ISC	Engines built after Oct '03	N/A	N/A	C20387	C40108	C11562	C10218	L7044	C11753	L7045

STERLING

8000										
Cat 3126B/E/C7	90° Pipe	N/A	N/A	C20353	C40106B	C11558	C10319	L7024	C11775	L7043
Cat 3126B/E	S Pipe	C16062 (EXB)	C16072 (EXB)	N/A	C40113	C11400	C10319	L7024	C11775	L7043
Cat C15		N/A	N/A	C20285	C40202	C11750	C10319	L7024	N/A	N/A
ACTERA (MX)										
Cat C7		C16062 (EXB)	C16072 (EXB)	N/A	C40113	C11400	C10319	L7024	C11775	L7043
Cummins ISC	Engines built before Oct '03	C16070 (EXB)	N/A	C20395	C40107	C11546	C10218	L7044	C11753	L7045
Cummins ISC	Engines built after Oct '03	N/A	N/A	C20394	C40107	C11546	C10218	L7044	C11753	L7045

† OBA – ONBOARD AIR
 * ENGINES MAY REQUIRE HEAVY DUTY VALVE SPRINGS
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ENGINE***	NOTES	COMPLETE KITS		BRAKES		MOUNTING GROUP	CONTROL GROUP w/ ONBOARD AIR		CONTROL GROUP w/o ONBOARD AIR	
		VEHICLES w/ OBA†	VEHICLES w/o OBA†	EXB	PRXB		CONTROL GROUP VEHICLES w/ OBA†	INFO GROUP	CONTROL GROUP VEHICLES w/o OBA†	INFO GROUP

STERLING cont'

HX 111, 113, 122 (VERTICAL EXHAUST)

Cat C7		C12026 (EXB)	C12027 (EXB)	C20353	C40106B	C11546	C10319	L7024	C11775	L7043
Cat C9		N/A	N/A	C20278	C40203	C11750	C10319	L7024	C11775	L7043
Cummins ISC	Engines built after Oct '03 w/ factory cast elbow	N/A	N/A	C20393	C40107	C11554	C10218	L7044	C11753	L7045
Cummins ISC	Engines built after Oct '03 w/o factory cast elbow	N/A	N/A	C20393	C40107	C11525	C10218	L7044	C11753	L7045

HX 101(ALL), 111, 113, 122 (HORIZONTAL EXHAUST)

Cat C7		C16062 (EXB)	C16072 (EXB)	N/A	C40113	C11400	C10319	L7024	C11775	L7043
Cat C9		N/A	N/A	C20278	C40203	C11556	C10319	L7024	C11775	L7043
Cummins ISC	Engines built after Oct '03	N/A	N/A	C20394	C40107	C11526	C10218	L7044	C11753	L7045

CARGO

Cummins ISB (Pre Oct '02)		N/A	N/A	C10277	N/A	C11542	C10218	L7044	C11753	L7045
	w/ 3" exhaust pipe	N/A	N/A	C10277	N/A	C11542	C10218	L7044	C11753	L7045
	w/ 3 1/2" exhaust pipe	N/A	N/A	C10277	N/A	C11543	C10218	L7044	C11753	L7045
Cummins ISB 02 EGR up to 230 HP	Engines built after Oct '02	N/A	N/A	C10901	C40301	C11606 (EXB) C11604 (PRXB)	C10218	L7044	C11753	L7045

THOMAS BUS

SAF-LINER HDX

Cat C7		N/A	N/A	C20353	C40106B	C11575 + Cust Supplied Flex	C10319	L7024	C11775	L7043
Cummins ISC	Engines built after Oct '03	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA

SAF-LINER C2

Cat C7		TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA
Cummins B5.9L *	3" Exhaust pipe	C14100 (EXB)	C14200 (EXB)	C10287	N/A	C11542	C10211	L7044	C11773	L7045
	3 1/2" Exhaust pipe	C14150 (EXB)	C14250 (EXB)	C10287	N/A	C11543	C10211	L7044	C11773	L7045
Cummins ISB (Pre Oct '02)	3" Exhaust pipe	C17100 (EXB)	C17200 (EXB)	C10297	N/A	C11542	C10218	L7044	C11753	L7045
	3 1/2" Exhaust pipe	C17150 (EXB)	C17250 (EXB)	C10297	N/A	C11543	C10218	L7044	C11753	L7045
Cummins C8.3L *		N/A	N/A	C20330	N/A	C11541	C10211	L7044	C11753	L7045
Cummins ISC	Engines built before Oct '03	N/A	N/A	C10328	N/A	C11541	C10218	L7044	C11753	L7045

† OBA – ONBOARD AIR

* ENGINES MAY REQUIRE HEAVY DUTY VALVE SPRINGS

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ENGINE***	NOTES	COMPLETE KITS		BRAKES		MOUNTING GROUP	CONTROL GROUP w/ ONBOARD AIR		CONTROL GROUP w/o ONBOARD AIR	
		VEHICLES w/ OBA†	VEHICLES w/o OBA†	EXB	PRXB		CONTROL GROUP VEHICLES w/ OBA†	INFO GROUP	CONTROL GROUP VEHICLES w/o OBA†	INFO GROUP
WESTERN STAR										
Cat 3126B/E/C7	3700	C20650 (EXB)	C20655 (EXB)	C20353	C40106B	C11558	C10319	L7024	C11775	L7043

APPLICATIONS USING FOOT SWITCH

All	All w/o ABS, w/o Allison	N/A	N/A	Above	Above	Above	C12051	L7058	C12052	L7059
All	All w/ ABS, w/o Allison	N/A	N/A	Above	Above	Above	Above + C12029	L7058	Above + C12029	L7059
All	All w/o Allison requiring cruise control disable	N/A	N/A	Above	Above	Above	Above + C12053	L7058	Above + C12053	L7059

APPLICATIONS THAT NEED WARM UP

All	All using foot switch	Above	Above	Above	Above	Above	Above + C12050	Above	Above + C12050	Above
All	All not using foot switch	Above	Above	Above	Above	Above	Above + TBA	Above	Above + TBA	Above

MISCELLANEOUS UNIVERSAL APPLICATIONS

Cummins C8.3L *	DirectMount	C10320	N/A	C20325	C40100	C11541	C10211	L7044	C11753	L7045
	InLineMount	C12001-65	N/A	C20365	C40115	C11400	C10211	L7044	C11753	L7045
w/ foot switch **	InLineMount w/ 3" Exhaust Pipe	N/A	C12000	C10300	N/A	C11440	C11790	L7009	C11770	L7009
w/ throttle switch **	InLineMount w/ 3" Exhaust Pipe	N/A	C12003	C10300	N/A	C11440	C10211	L7009	C11773	L7009
w/ foot switch **	InLineMount w/ 4" Exhaust Pipe	N/A	N/A	C10300	N/A	C11400	C11790	L7009	C11770	L7009
w/ throttle switch **	InLineMount w/ 4" Exhaust Pipe	C12001	N/A	C10300	N/A	C11400	C10211	L7009	C11773	L7009

ALLISON AUTOMATIC TRANSMISSION INTERFACE GROUPS - REQUIRED FOR AFTERMARKET INSTALLATIONS

3000 series transmissions in vehicles w/ Allison VIM	C13060E			
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† OBA – ONBOARD AIR

* ENGINES MAY REQUIRE HEAVY DUTY VALVE SPRINGS

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Solenoid Specifications



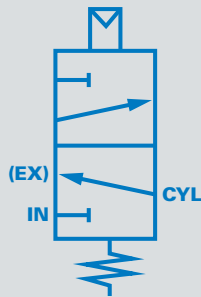
SOLENOID OPERATED PNEUMATIC DIRECTIONAL CONTROL VALVES

Pacbrake offers various vacuum and air solenoid configurations to meet any specialty requirement or mounting location. Our engineered commercial-duty and severe-duty solenoids have been exposed to some of the toughest testing grounds the world has to offer.

Pacbrake's experience designing cost effective hydraulic and pneumatic solenoids with demanding requirements has equipped Pacbrake with the experience to integrate solenoid controls into any application.

3-WAY, 2-POSITION

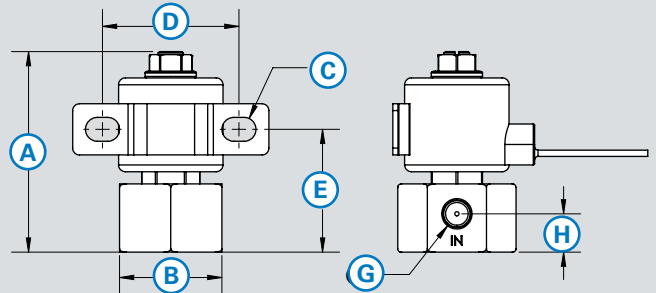
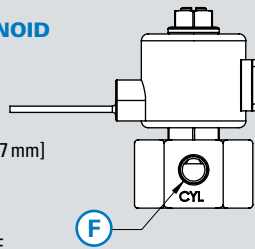
- 'IN' port normally closed
- 'CYL' port normally open to exhaust (atmosphere)
- 18" [457 mm] long 18 AWG wire leads
- Anodized aluminum valve body
- Zinc chromate plated carbon steel solenoid body



SPECIFICATIONS	
WORKING TEMPERATURE RANGE:	-40°F to 185°F [-40°C to 85°C]
MAXIMUM WORKING PRESSURE:	0 psi to 150 psi [0 kPa to 1034 kPa]
ORIFICE SIZE:	3/32" x 2 [2.38 mm x 2]



C11935 PNEUMATIC SOLENOID
Voltage Range: 12 VDC*
Coil Resistance: 10 Ω
A: 2.91" [74.0 mm]
B (Hex): 1.50" [38.1 mm]
C: .35" X .50" [8.9mm X 12.7 mm]
D: 2.00" [50.8 mm]
E: 1.8" [45.7 mm]
F (Port): 1/8"-27 (-2) NPTF
G (Port): 1/8"-27 (-2) NPTF
H: .563" [14.3 mm]



*Also available in 24VDC part #: C11979

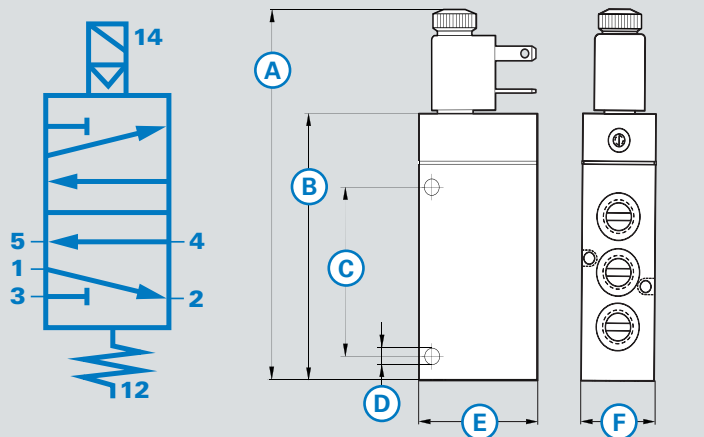
5/2-WAY SOLENOID VALVE

- Single solenoid with spring return
- Continuous duty cycle
- IP65 to DIN 40050 with plug protection

SPECIFICATIONS	
AMBIENT TEMPERATURE RANGE:	14°F to 140°F [-10°C to 60°C]
MAXIMUM WORKING PRESSURE:	29 psi to 145 psi [2 bar to 10 bar]
FLOW CV:	0.5 l [500 min]



C10560 5/2 WAY SOLENOID VALVE
Voltage Range: 12 VDC
Weight: 0.62 lbs [0.28 kg]
A: 5.04" [128 mm]
B: 3.44" [87.5 mm]
C: 2.19" [55.5 mm]
D: 0.22" [5.5 mm]
E: 1.57" [40 mm]
F: 0.87" [22 mm]
Port: 1/8" (-2) NPT



PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES

3-WAY, 2-POSITION

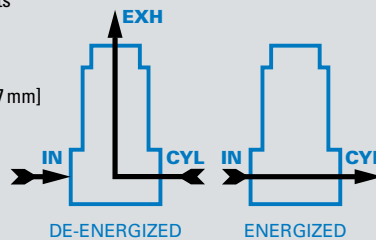
- Direct acting, spring return
- Inlet – normally closed, Cyl – normally open to vent (atmosphere)
- 1/4" (-4) NPT IN and CYL port
- 6" [152 mm] long 18 AWG (UL 3173) pigtail
- Brass solenoid base
- Zinc chromate plated carbon steel solenoid body
- 1N4006 internal suppression diode
- NEMA 1 Protection



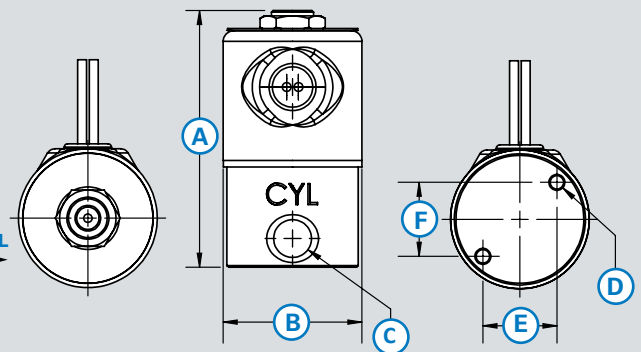
C10611

HEAVY DUTY SOLENOID

Voltage Range: 24 VDC
Coil Resistance: 36 to 45 Ω
Max Power: 14 Watts
A: 3.05" [77.5 mm]
B: 1.56" [39.6 mm]
C: 1/4" (-4) NPT x 2
D: 10-32 UNF .38" [9.7 mm]
E: .88" [22.4 mm]
F: .88" [22.4 mm]



SPECIFICATIONS	
WORKING TEMPERATURE RANGE:	-40°F to 248°F [-40°C to 120°C]
MAXIMUM WORKING PRESSURE:	0 psi to 135 psi [0 kPa to 931 kPa]
FLOW RATE	Cv 0.18
PROOF PRESSURE:	500 psi [3448 kPa]
BURST PRESSURE:	6000 psi [41369 kPa]
ORIFICE SIZE:	3/32" x 2 [1.52+/-0.08 mm 2.38 mm x 2]
MAX FREQUENCY:	300 Cpm
RESPONSE TIME:	5-15 ms



4-WAY, 2-POSITION

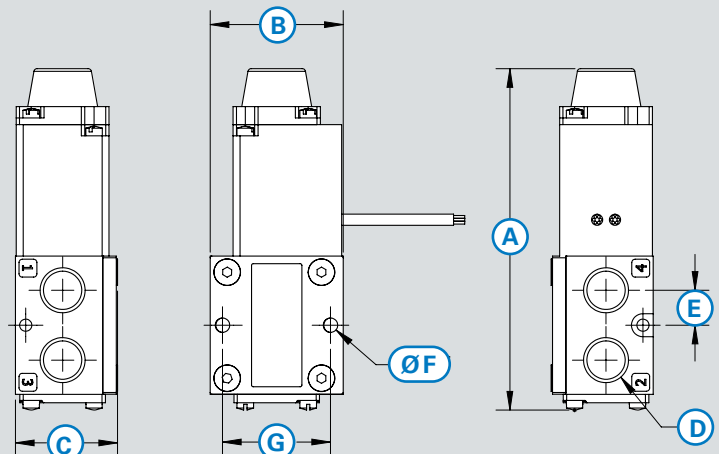
- 6 Watt
- .5 Amps current holding
- Spring return with flush non-locking override
- 1/8" (-2) NPTF
- Lubricant free assembly
- Loctite applied to fasteners
- Energize time: 0.012 ms
- De-energize time: 0.006 sec
- Designed to meet NEMA 4/IP65
- Flow capacity: 197 NI/m @ 6 bar upstream /5 bar downstream atmosphere [9.3 SCM @ 80 psig upstream/atmosphere downstream]
- 15" [457 mm] long 18 AWG pigtail



C11829

LIGHT DUTY SOLENOID

Voltage Range: 12 VDC
Coil Resistance: 25 Ω
A: 3.14" [79.8 mm]
B: 1.19" [30.2 mm]
C: 0.90" [22.9 mm]
D: 1/8" (-2) NPTF x 4
E: 0.31" x 4 [7.9 mm x 4]
F: 0.11" x 3 [2.8 mm x 3] Thru
G: 0.97" [24.6 mm]



SPECIFICATIONS	
WORKING TEMPERATURE RANGE:	-40°F to 185°F [-40°C to 85°C]
WORKING PRESSURE:	28" Hg to 150 psig [Vacuum to 10 bar]
FLOW RATE:	Cv 0.20

Adapter & Clamp Specifications

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES



EXHAUST BRAKE ADAPTERS & CLAMPS

When installing an exhaust brake there are two different mounting configurations. One of the most typical exhaust brake installation is the InLineMount. For this type of install adapters are required to seal the airflow from the exhaust brake to the exhaust pipe. They are mounted on either side of the brake and clamped into place.

The second type of exhaust brake, for Dodge 2003 and newer vehicles, are exceptions as they are installed using a DirectMount configuration. This type of install does not require adapters as one side of the brake attaches directly to the turbocharger and the other side directly to the exhaust pipe.

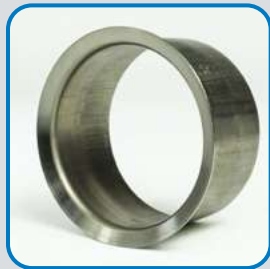
Pacbrake's exhaust brake adapters are stainless steel* and have machined flanges so that they are perfectly matched when connected to the exhaust brake housing. The adapters combined with the stainless steel* V-Clamps, ensure that there is a perfect airtight seal between all exhaust brake joints.

See the PRXB replacement parts table to find the specific part numbers of replacement adapters and clamps for Pacbrake exhaust brakes (pages 32-37).

*Where Applicable

ADAPTERS

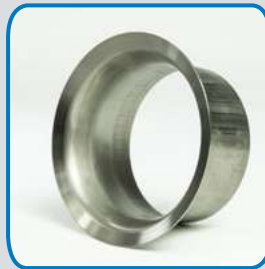
- Stainless steel (where applicable)
- Precision machined flanges
- No gaskets required



C11342



C11346



C11347



C11354



C20118

CLAMPS

- Stainless steel
- Available for Pacbrake exhaust brakes* (some are OEM only)
- Sizes 2.75" To 5" exhaust brakes
- 40° Flange angle



C10310



C10350



C10355



C10720



C11750



C14093



C14094



C14096



C20063

See Pacbrake's EXHAUST BRAKE REPLACEMENT PARTS GUIDE on pages 32-37 to find the appropriate part number for replacement adapters, clamps & cylinders for your Pacbrake exhaust brake

CYLINDERS: PNEUMATIC ACTUATORS



Pacbrake's pneumatic actuators are known for their reliability and lengthy service life. Constructed with a stainless steel body and shaft, these actuators have excellent corrosion resistance enabling them to withstand demanding conditions. Single acting designs are available with return springs which can act as both a simpler method of control, as well as a fail-safe measure. Various seal materials can be recommended depending on the operating temperatures of your application. Dual acting cylinders are available for some applications contact Pacbrake for more information.

CYLINDERS

Pneumatic-Single Acting

- Spring return, normally retracted
- Clear Anodized, front & rear end caps
- Clevis mount
- Operating pressure 100-150 psi
- Buna HBNR seal*
- Non repairable

Pneumatic-Dual Acting

- Clear Anodized, front & rear end caps
- Clevis mount
- Operating pressure 100-150 psi
- Buna HBNR seal*
- Non repairable

MATERIALS

CYLINDER BODY	AISI 304 Stainless steel
PISTON	6061-T6 Aluminum
PISTON SHAFT	AISI 304 Stainless steel
END CAPS	6061-T6 Aluminum
BUSHING	Composite, G10300 + 52100 + PTFE

*Viton seals are also available. Contact Pacbrake for more information



C10578



C10579



C11300



C11530



C10595



C11596



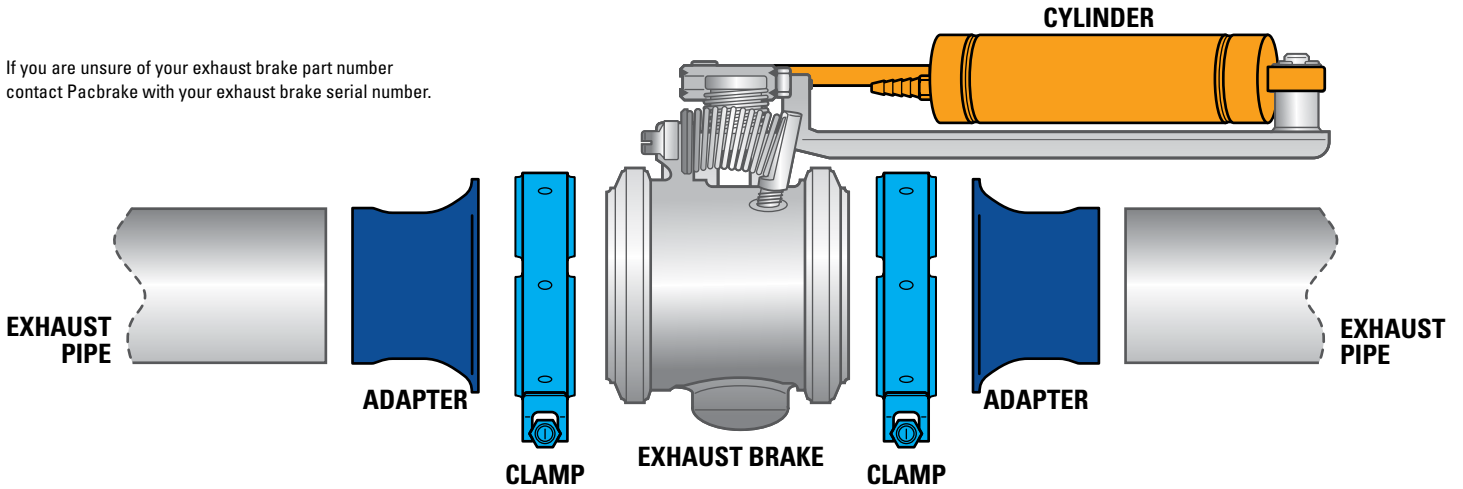
C11602



C11876

Exhaust Brake Replacement Parts Guide

If you are unsure of your exhaust brake part number contact Pacbrake with your exhaust brake serial number.



BRAKE PART #	SIZE	CLAMP PART #		ADAPTER PART #										CYLINDER KIT #
				TO 2.75" PIPE		TO 3" PIPE		TO 3.5" PIPE		TO 4" PIPE		TO 5" PIPE		
				FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	
C10100	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C10525	C11354	C11354	C11596
C10150	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C10525	C11354	C11354	C11596
C10175	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C10525	C11354	C11354	C11596
C10200	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C10525	C11354	C11354	C10579*
C10240	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11596
C10245	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11596
C10250	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11596
C10250W	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C10579*
C10252	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11596
C10265	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11596
C10275	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C10579*
C10277	2 3/4"	C14096	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11876
C10280	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C10579*
C10284	2 3/4"	C14096	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11876
C10285	2 3/4"	C14096	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11876
C10287	2 3/4"	C14096	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11876
C10288	2 3/4"	C14096	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11876
C10290	2 3/4"	C14096	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11898
C10290AT	2 3/4"	C14096	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11898
C10292	2 3/4"	C14096	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11898
C10292AT	2 3/4"	C14096	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11898
C10293	2 3/4"	C14096	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11898
C10295	2 3/4"	C14094	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11876
C10297	2 3/4"	C14096	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11876
C10299	2 3/4"	C14094	N/A	N/A	N/A	N/A	C11901	N/A	C11902	N/A	N/A	N/A	N/A	C11876
C10300	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11530
C10300-30	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C10300-35	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C10300-40	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596

* Requires additional parts: C10833 x 1, C10420 x 3, C18002 x 1, C18003 x 1 & C10430 x 1

** Requires replacement gasket: C11612

*** Bolt flange connection, contact Pacbrake for Part#s

† Original Equipment Manufacturer (OEM)

BRAKE PART #	SIZE	CLAMP PART #		ADAPTER PART #										CYLINDER KIT #
				TO 2.75" PIPE		TO 3" PIPE		TO 3.5" PIPE		TO 4" PIPE		TO 5" PIPE		
		FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	
C10300-55	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C10300-60	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C10300-65	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C10325	4"	C10310	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C10328	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10330	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10335	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10337	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10340	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10345	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10350	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10353	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10360	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10361	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10370	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10372	4"	C10310	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C11596
C10373	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10376	3"	N/A	OEM †	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10585*
C10380	2 3/4"	N/A	OEM †	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C11898
C10382	4"	C10310	OEM †	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C11530
C10383	3"	N/A	OEM †	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10585*
C10386	3"	N/A	OEM †	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10585*
C10388	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10390	4"	C10310	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C11596
C10392	4"	C10310	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C11596
C10395	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10397	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10399	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C10401	4"	C10310	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C11596
C10900	3"	C14096	C14093	N/A	C11909	N/A	C20521	N/A	N/A	N/A	N/A	N/A	N/A	C11876
C10901	3"	C14094	C14093	N/A	C11909	N/A	C20521	N/A	N/A	N/A	N/A	N/A	N/A	C11876
C10902	3"	C14094	C14093	N/A	C11909	N/A	C20521	N/A	N/A	N/A	N/A	N/A	N/A	C11876
C10903	3"	C14094	C14093	N/A	C11909	N/A	C20521	N/A	N/A	N/A	N/A	N/A	N/A	C11876
C10904	3"	C14096	C14093	N/A	C11909	N/A	C20521	N/A	N/A	N/A	N/A	N/A	N/A	C11876
C10905	3"	C14096	C14093	N/A	C11909	N/A	C20521	N/A	N/A	N/A	N/A	N/A	N/A	C11876
C10906	3"	C14096	C14093	N/A	C11909	N/A	C20521	N/A	N/A	N/A	N/A	N/A	N/A	C11876
C10907	3"	C14096	C14093	N/A	C11909	N/A	C20521	N/A	N/A	N/A	N/A	N/A	N/A	C11876
C10911	3"	C14096	C14093	N/A	C11909	N/A	C20521	N/A	N/A	N/A	N/A	N/A	N/A	C11876
C10912	3"	C14096	C14093	N/A	C11909	N/A	C20521	N/A	N/A	N/A	N/A	N/A	N/A	C11876
C20044	3 1/2"	C20061	C20063	N/A	N/A	N/A	C11368	N/A	N/A	N/A	N/A	N/A	N/A	C11596
C20060	3 1/2"	C20061	C20063	N/A	N/A	N/A	C20067	N/A	N/A	N/A	N/A	N/A	N/A	C11596
C20245	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C20246	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C10525	C11354	C11354	C11602
C20265	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C20266	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C10525	C11354	C11354	C11602

* Requires additional parts: C10833 x 1, C10420 x 3, C18002 x 1, C18003 x 1 & C10430 x 1

** Requires replacement gasket: C11612

*** Bolt flange connection, contact Pacbrake for Part#s

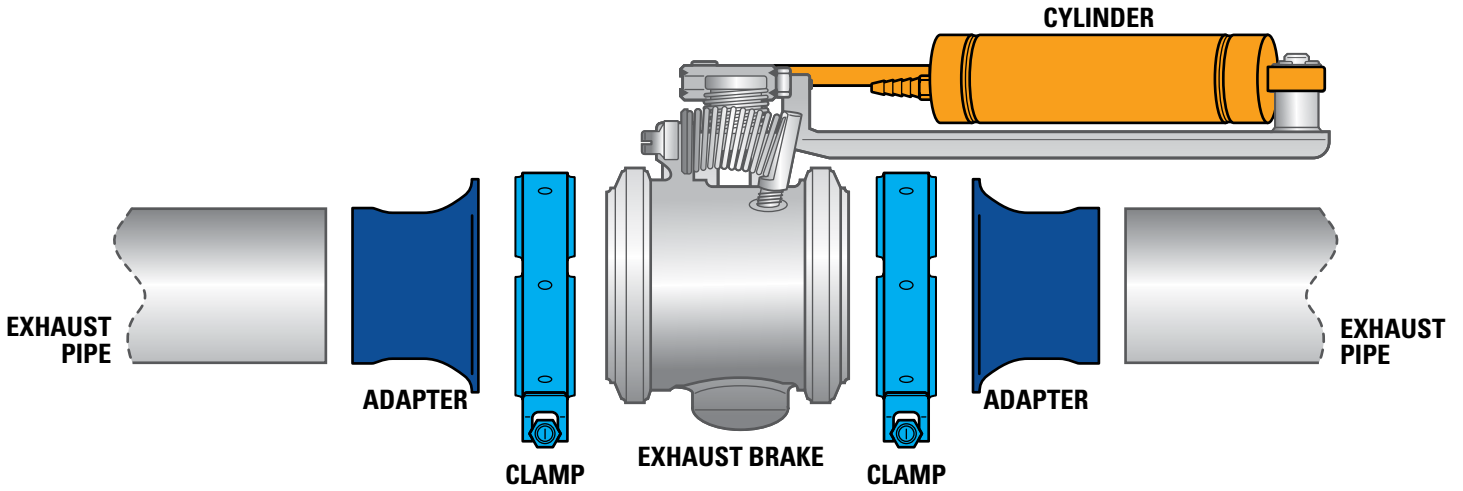
† Original Equipment Manufacturer (OEM)

Exhaust Brake Replacement Parts Guide

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES



BRAKE PART #	SIZE	CLAMP PART #		ADAPTER PART #										CYLINDER KIT #
		FRONT	REAR	TO 2.75" PIPE		TO 3" PIPE		TO 3.5" PIPE		TO 4" PIPE		TO 5" PIPE		
				FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	
C20270	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C10525	C11354	C11354	C11596
C20274	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C20275	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C20276	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C10578*
C20277	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C20278	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C20279	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C20281	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C20285	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C20290	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C20295	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C20305	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C20325	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20330	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20335	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20340	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20342	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20344	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20345	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20346	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20347	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20348	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20349	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20350	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20351	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20352	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20353	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20354	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20355	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596

* Requires additional parts: C10833 x 1, C10420 x 3, C18002 x 1, C18003 x 1 & C10430 x 1

** Requires replacement gasket: C11612

*** Bolt flange connection, contact Pacbrake for Part#s

† Original Equipment Manufacturer (OEM)

BRAKE PART #	SIZE	CLAMP PART #		ADAPTER PART #										CYLINDER KIT #
		FRONT	REAR	TO 2.75" PIPE		TO 3" PIPE		TO 3.5" PIPE		TO 4" PIPE		TO 5" PIPE		
				FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	
C20356	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20357	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20358	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11530
C20359	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20360	4"	C11360	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20361	4"	C11360	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20362	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C20363	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20364	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C20365	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C20366	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C20367	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C20368	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11876
C20369	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C20370	4"	C11360	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20371	3 1/2"	C11360	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C20373	3 1/2"	C11360	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C20374	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11876
C20375	3 1/2"	C11360	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C20376	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C20379	3 1/2"	C11360	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C20380	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20381	4"	C11365	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20383	3.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C11596
C20384	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20385	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11876
C20386	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20387	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20388	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20389	3 1/2"	C11355	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C20390	3 1/2"	C11355	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C20391	3 1/2"	C11355	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C20392	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20393	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20394	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20395	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20399	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C20405	4"	OEM †	OEM †	N/A	N/A	N/A	N/A	N/A	OEM †	N/A	N/A	N/A	N/A	C11530
C20406	4"	OEM †	OEM †	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OEM †	N/A	N/A	C11530
C20525	5"	N/A	OEM †	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OEM †	C11602
C40100	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C40101	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11530
C40102	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C40103	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C40104	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11530

* Requires additional parts: C10833 x 1, C10420 x 3, C18002 x 1, C18003 x 1 & C10430 x 1

** Requires replacement gasket: C11612

*** Bolt flange connection, contact Pacbrake for Part #s

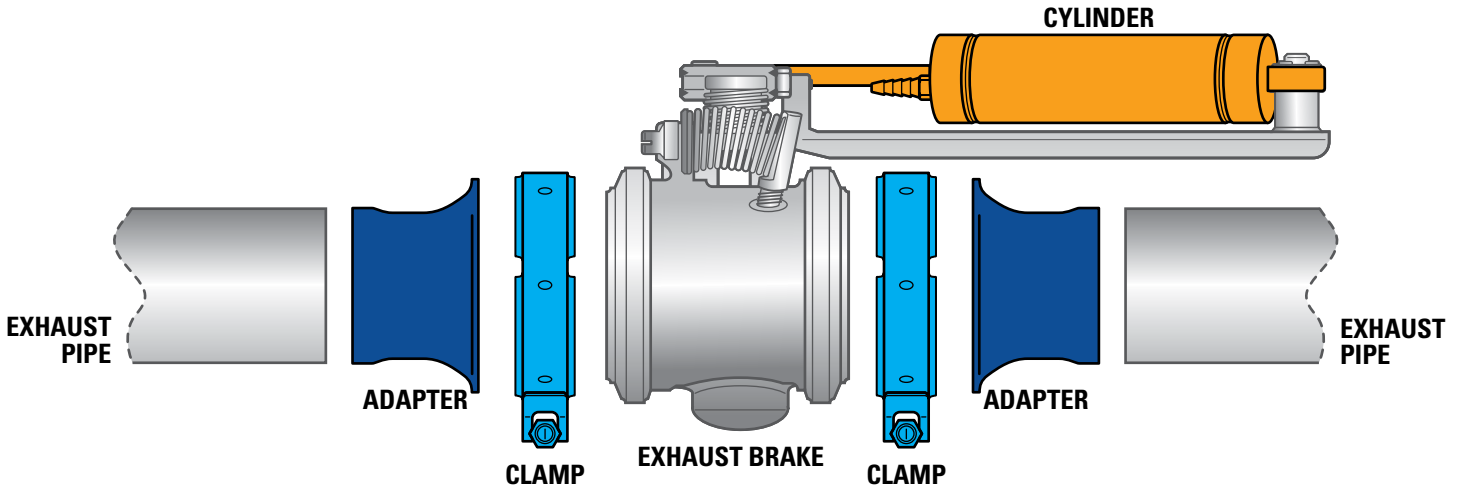
† Original Equipment Manufacturer (OEM)

Exhaust Brake Replacement Parts Guide

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES



BRAKE PART #	SIZE	CLAMP PART #		ADAPTER PART #										CYLINDER KIT #
				TO 2.75" PIPE		TO 3" PIPE		TO 3.5" PIPE		TO 4" PIPE		TO 5" PIPE		
		FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	
C40105	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11530
C40106B	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C40107	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C40108	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11530
C40109	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C40110	4"	OEM †	OEM †	N/A	N/A	N/A	N/A	N/A	OEM †	N/A	N/A	N/A	N/A	C11530
C40111	4"	OEM †	OEM †	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OEM †	N/A	N/A	C11530
C40112	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11530
C40113	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C40114	4"	C10310	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C40115	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C40116	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C40117	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C40118	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C40119	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C40120	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C40123	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C40124	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C40125	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C40126	4"	N/A	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11530
C40127	4"	N/A	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C40128	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11530
C40129	4"	C11355	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C40130	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C40131	4"	OEM †	C11350	N/A	N/A	N/A	C11346	N/A	C11347	N/A	C11342	N/A	N/A	C11596
C40132	4"	C11350	C11350	N/A	N/A	C11346	C11346	C11347	C11347	C11342	C11342	N/A	N/A	C11596
C40133	4"	OEM †	OEM †	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OEM †	N/A	N/A	C11596
C40200	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C40201	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602

* Requires additional parts: C10833 x 1, C10420 x 3, C18002 x 1, C18003 x 1 & C10430 x 1

** Requires replacement gasket: C11612

*** Bolt flange connection, contact Pacbrake for Part#s

† Original Equipment Manufacturer (OEM)

BRAKE PART #	SIZE	CLAMP PART #		ADAPTER PART #										CYLINDER KIT #
				TO 2.75" PIPE		TO 3" PIPE		TO 3.5" PIPE		TO 4" PIPE		TO 5" PIPE		
		FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	
C40202	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C40203	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C40204	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C40205	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C40206	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C11354	C11354	C11602
C40207	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C40208	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C40209	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C11354	C11354	C11602
C40210	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C11354	C11354	C11602
C40211	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C11354	C11354	C11602
C40213	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C11354	C11354	C11602
C40214	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C11354	C11354	C11602
C40215	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C40216	5"	C11750	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	C11602
C40217	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C11354	C11354	C11602
C40218	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C11354	C11354	C11602
C40219	5"	OEM †	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	N/A	C11354	OEM †
C40220	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C11354	C11354	C11602
C40221	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	OEM †	OEM †	C11602
C40222	5"	C10720	C10720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C10525	C11354	C11354	C11602
C40300	3 1/2"	C20061	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40301	3 1/2"	C14094	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40302	3 1/2"	C20063	OEM †	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40303	3 1/2"	C20063	OEM †	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40304	3 1/2"	C14094	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40305	3 1/2"	C11355	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11530
C40308	3 1/2"	C11365 **	OEM †	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40309	3 1/2"	C11365 **	OEM †	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40310	3 1/2"	C11355	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11530
C40311	3 1/2"	C14096	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40312	3 1/2"	C14096	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11530
C40313	3 1/2"	C14096	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40315	3 1/2"	C14096	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40316	3 1/2"	C11355	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40317	3 1/2"	C11355	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40318	3 1/2"	C11355	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40319	3 1/2"	C11360	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596
C40320	3 1/2"	C11360	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11530
C40321	3 1/2"	C11355	C20063	N/A	N/A	N/A	C11368	N/A	C20118	N/A	N/A	N/A	N/A	C11596

* Requires additional parts: C10833 x 1, C10420 x 3, C18002 x 1, C18003 x 1 & C10430 x 1

** Requires replacement gasket: C11612

*** Bolt flange connection, contact Pacbrake for Part#s

† Original Equipment Manufacturer (OEM)

Compressor Specifications



HP325 SERIES AIR COMPRESSORS

Pacbrake's HP325 series air compressors have a 33% duty cycle (20 minutes @ 100 psi) and are offered in both 12 and 24 VDC. These ¼ horsepower compressors utilize an oil-less design, sealed bearings, a PTFE piston ring, a copper wire wound permanent magnet motor and a hard anodized aluminum cylinder.

The Premium Air Compressor Kit offers pre-built wiring harnesses for the ultimate ease in installation.

- Sealed bearings
- Cast aluminum cylinder head
- Hard anodized aluminum cylinder
- PTFE piston ring
- Mountable in any orientation



Pacbrake's PRXB product line features the HP325 series compressors. For more information on Pacbrake's entire Air Management product line, which includes air suspension, onboard air, in-cab controls & more.

AFTERMARKET BY
PACBRAKE

12 VDC SPECIFICATIONS

GENERAL DATA

PART NUMBER	HP10142
WEIGHT	5.5 lbs [2.49 kg]
AMBIENT TEMPERATURE RANGE	-40°F to 158°F [-40°C to 70°C]
MAX DUTY CYCLE	33% (20 minutes @ 100 psi)
INGRESS PROTECTION	IP55 w/remote intake (included)

PNEUMATIC DATA

RATED FLOW	1.1 SCFM
MAX WORKING PRESSURE	150 psi [1034 kPa]
MAX RESTART PRESSURE	135 psi [931 kPa]

ELECTRICAL MOTOR DATA

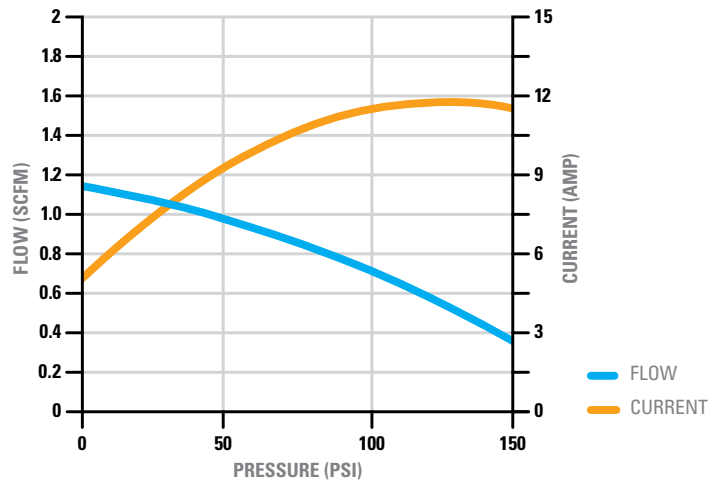
MOTOR TYPE	Permanent Magnet DC
OPERATING VOLTAGE	12 VDC ± 15%
MAXIMUM CURRENT DRAW	17 A
NOMINAL POWER	¼ HP
NOMINAL SPEED	3000 RPM

**Operating life may be dependent on application*

12 VDC TANK FILL TIME

TANK SIZE	TANK PART #	0 to 100 psi	100 to 150 psi
½ Gallon	HP10053	23 seconds	23 seconds
2½ Gallon	HP10050	157 seconds	130 seconds

HP325 12 VDC - CURRENT & FLOW RATE VS PRESSURE (13.8 VDC)





PUSH-TO-CONNECT FITTINGS

- For use with air, water and oil
- DOT fittings are approved for automotive air brake systems using DOT approved nylon tube
- Non-DOT fittings are for use with standard nylon tube or DOT approved
- Require the use of teflon® tape of pipe sealant – some fittings may come with pipe sealant pre-applied

SPECIFICATIONS		
DOT:	MAXIMUM WORKING PRESSURE	¼" OD Tube: 300 psi [2.07 mPa]
	WORKING TEMPERATURE RANGE:	-40°F to 200°F [40°C to 93°C]
NON-DOT:	MAXIMUM WORKING PRESSURE	½" OD Tube: 350 psi [2.41 mPa]
	MAXIMUM WORKING PRESSURE	¾" OD Tube: 250 psi [1.72 mPa]
	MAXIMUM WORKING PRESSURE	¾" OD Tube: 300 psi [2.07 mPa]
	WORKING TEMPERATURE RANGE	-10°F to 200°F [23°C to 93°C]



HP1152
FEMALE PIPE BULKHEAD
Material: Brass
Fitting End A: 1/4" OD Tube
Fitting End B: 1/4" (-4) NPT Female
NON-DOT



HP1019
MALE PIPE 90° SWIVEL ELBOW
Material: Nickel Plated Brass
Fitting End A: 1/4" OD Tube
Fitting End B: 1/8" (-2) NPT Male (Pre-Applied Sealant)
NON-DOT



HP1099
MALE PIPE CONNECTOR
Material: Brass
Fitting End A: 1/4" OD Tube
Fitting End B: 1/4" (-4) NPT Male (Pre-Applied Sealant)
NON-DOT



HP1210
FEMALE PIPE CONNECTOR
Material: Nickel Plated Brass
Fitting End A: 1/4" OD Tube
Fitting End B: 1/8" (-2) NPT Female
NON-DOT



HP1122
MALE PIPE 90° SWIVEL ELBOW
Material: Brass
Fitting End A: 1/8" OD Tube
Fitting End B: 1/8" (-2) NPT Male (Pre-Applied Sealant)
NON-DOT



HP1214
MALE PIPE CONNECTOR
Material: Brass
Fitting End A: 3/8" OD Tube
Fitting End B: 1/4" (-4) NPT Male (Pre-Applied Sealant)
NON-DOT



HP1245
MALE PIPE 90° ELBOW
Material: Brass
Fitting End A: 1/4" OD Tube
Fitting End B: 3/8" (-6) NPT Male (Pre-Applied Sealant)
NON-DOT



HP1098
MALE PIPE CONNECTOR
Material: Nickel Plated Brass
Fitting End A: 1/4" OD Tube
Fitting End B: 1/8" (-2) NPT Male
NON-DOT



HP1385
MALE PIPE CONNECTOR
Material: Brass
Fitting End A: 1/4" OD Tube
Fitting End B: 3/8" (-6) NPT Male (Pre-Applied Sealant)
DOT



HP1100
MALE PIPE 90° SWIVEL ELBOW
Material: Nickel Plated Brass
Fitting End A: 1/4" OD Tube
Fitting End B: 1/4" (-4) NPT Male
NON-DOT



HP1176
UNION TEE
Material: Brass
Fitting End A: 1/4" OD Tube
Fitting End B: 1/4" OD Tube
Fitting End C: 1/4" OD Tube
DOT

HOSE BARB FITTINGS

- General purpose fittings for air, water, low pressure and vacuum applications
- Tube/hose requires securing with clamps or ferrules
- Require the use of teflon® tape or pipe sealant – some fittings may come with pipe sealant pre-applied

SPECIFICATIONS	
MAXIMUM WORKING PRESSURE	Dependent on tube/hose
WORKING TEMPERATURE RANGE:	-40°F to 220°F [40°C to 104°C]



C11868
MALE PIPE 90° ELBOW
Material: Brass
Fitting End A: 1/4" ID Tube
Fitting End B: 1/8" (-2) NPT Male



C10686
MALE PIPE CONNECTOR
Material: Brass
Fitting End A: 1/8" ID Tube
Fitting End B: 10/32" UNF Male



C11867
MALE PIPE CONNECTOR
Material: Brass
Fitting End A: 1/4" ID Tube
Fitting End B: 1/8" (-2) NPT Male



C10568
MALE PIPE CONNECTOR
Material: Brass
Fitting End A: 1/8" ID Tube
Fitting End B: 1/8" (-2) NPT Male



C11833
MALE PIPE CONNECTOR
Material: Brass
Fitting End A: 3/8" ID Tube
Fitting End B: 1/8" (-2) NPT Male



C10501
UNION TEE
Material: Brass
Fitting End A: 0.170" ID Tube
Fitting End B: 0.170" ID Tube

Pneumatic / Hydraulic Fittings & Accessories

PIPE FITTINGS

- General purpose fittings for use with air, natural gas, water and oil
- Require the use of teflon® tape or pipe sealant – some fittings may come with pipe sealant pre-applied

SPECIFICATIONS	
MAXIMUM WORKING PRESSURE	5,000 psi [34.5 mPa]
WORKING TEMPERATURE RANGE:	-65°F to 250°F [-54°C to 120°C]



C20092
90° STREET ELBOW
Material: Brass
Fitting End A: 1/8" (-2) NPT Male
Fitting End B: 1/8" (-2) NPT Female



HP1096
BUSHING
Material: Brass
Fitting End A: 1/4" (-4) NPT Male
Fitting End B: 1/8" (-2) NPT Female



C11722
MALE HEX NIPPLE
Material: Brass
Fitting End A: 1/8" (-2) NPT Male
Fitting End B: 1/8" (-2) NPT Male



HP1171
90° STREET ELBOW
Material: Brass
Fitting End A: 1/4" (-4) NPT Male
Fitting End B: 1/4" (-4) NPT Female



C3086
HEX HEAD PLUG
Material: Brass
Fitting End A: 1/8" (-2) NPT Male



HP1153
CLOSE NIPPLE
Material: Brass
Fitting End A: 1/4" (-4) NPT Male
Fitting End B: 1/4" (-4) NPT Male



HP1387
90° STREET ELBOW
Material: Brass
Fitting End A: 3/8" (-6) NPT Male
Fitting End B: 3/8" (-6) NPT Female



C10575
HEX NIPPLE
Material: Steel
Fitting End A: 1/4" (-4) NPT Male
Fitting End B: 1/8" (-2) NPT Male



HP1386
PLUG
Material: Zinc Plated Steel
Fitting End A: 3/8" (-6) NPT Male



HP1388
BUSHING
Material: Brass
Fitting End A: 3/8" (-6) NPT Male
Fitting End B: 1/4" (-4) NPT Female



C10583
HEX NIPPLE
Material: Steel
Fitting End A: 1/8" (-2) NPT Male
Fitting End B: 1/8" (-2) NPT Male



C10567
STREET TEE
Material: Brass
Fitting End A: 1/8" (-2) NPT Female
Fitting End B: 1/8" (-2) NPT Female
Fitting End C: 1/8" (-2) NPT Male



HP1238
BUSHING
Material: Brass
Fitting End A: 3/4" (-12) NPT Male
Fitting End B: 3/8" (-6) NPT Female



C18008
CROSS
Material: Brass
Fitting End A: 1/8" (-2) NPT Female
Fitting End B: 1/8" (-2) NPT Female
Fitting End C: 1/8" (-2) NPT Female
Fitting End D: 1/8" (-2) NPT Female



C11737
TEE
Material: Brass
Fitting End A: 1/8" (-2) NPT Female
Fitting End B: 1/8" (-2) NPT Female
Fitting End C: 1/8" (-2) NPT Female

SAE 45° FLARE FITTINGS

- Incompatible with JIC (SAE 37°)
- For use with air, natural gas, water, oil, refrigerant & gasoline

SPECIFICATIONS	
MAXIMUM WORKING PRESSURE	1/4" (-4) SAE 45°: 1,400 psi [9.65 MPa]
WORKING TEMPERATURE RANGE:	-65°F to 250°F [-54°C to 120°C]



C10680
MALE PIPE 90° ELBOW
Material: Brass
Fitting End A: 1/4" (-4) SAE 45° Male
Fitting End B: 1/8" (-2) NPT Male



C10770
MALE PIPE CONNECTOR
Material: Brass
Fitting End A: 1/4" (-4) SAE 45° Male
Fitting End B: 1/4" (-4) NPT Male



C11786
MALE PIPE CONNECTOR
Material: Brass
Fitting End A: 1/4" (-4) SAE 45° Male
Fitting End B: 1/8" (-2) NPT Male



C10685
MALE PIPE 45° ELBOW
Material: Brass
Fitting End A: 1/4" (-4) SAE 45° Male
Fitting End B: 1/8" (-2) NPT Male

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES

COMPRESSION FITTINGS

- For use with air, water and oil
- DOT fittings are approved for automotive air brake systems
- Require the use of teflon® tape or pipe sealant – some fittings may come with pipe sealant pre-applied

SPECIFICATIONS		
DOT:	MAXIMUM WORKING PRESSURE	¼" OD Tube: 300 psi [2.07 MPa]
	WORKING TEMPERATURE RANGE:	-40°F to 200°F [-40°C to 93°C]
NON-DOT:	MAXIMUM WORKING PRESSURE	½" OD Tube: 400 psi [2.76 MPa]
	MAXIMUM WORKING PRESSURE	¾" OD Tube: 200 psi [1.38 MPa]
	WORKING TEMPERATURE RANGE	-65°F to 250°F [-54°C to 120°C]



HP1151
FEMALE PIPE CONNECTOR
Material: Brass
Fitting End A: ¼" OD Tube Nylon
Fitting End B: ¼" (-4) NPT Female
DOT



C11796
MALE PIPE 90° ELBOW
Material: Brass
Fitting End A: ¼" OD Tube Nylon
Fitting End B: ½" (-2) NPT Male
DOT



C10576
MALE PIPE CONNECTOR
Material: Brass
Fitting End A: ¼" OD Tube Nylon
Fitting End B: ¼" (-4) NPT Male
DOT



HP1120
FEMALE PIPE CONNECTOR
Material: Brass
Fitting End A: ⅜" OD Tube Nylon
Fitting End B: ⅜" (-2) NPT Female
NON-DOT



HP1236
MALE PIPE 90° ELBOW
Material: Brass
Fitting End A: ⅜" OD Tube Brass/
Copper/Aluminum
Fitting End B: ⅜" (-6) NPT Male
NON-DOT



C10570
MALE PIPE CONNECTOR
Material: Brass
Fitting End A: ¼" OD Tube Nylon
Fitting End B: ⅜" (-2) NPT Male
DOT



C10591
MALE PIPE 45° ELBOW
Material: Brass
Fitting End A: ¼" OD Tube Nylon
Fitting End B: ⅜" (-2) NPT Male
DOT



C10572
MALE PIPE CONNECTOR
Material: Brass
Fitting End A: ¼" OD Tube Nylon
Fitting End B: ¼" (-4) NPT Male
DOT



C11795
MALE PIPE RUN TEE
Material: Brass
Fitting End A: ¼" OD Tube Nylon
Fitting End B: ¼" OD Tube Nylon
Fitting End C: ⅜" (-2) NPT Male
DOT

JIC (SAE 37°) FLARE FITTINGS

- JIC (Joint Industrial Council) also known as SAE 37° meeting SAE J514 – incompatible with SAE 45°
- For use with air, natural gas, water, oil, refrigerant & gasoline
- NPT compatible with NPTF when Teflon® tape or thread sealant is utilized

SPECIFICATIONS		
MAXIMUM WORKING PRESSURE	½" (-4) JIC:	-28" Hg to 5,000 psi [-0.94 kPa to 9.65 MPa]
WORKING TEMPERATURE RANGE:		-60°F to 400°F [-54°C to 204°C]



C3467
MALE PIPE CONNECTOR
Material: Steel
Fitting End A: ¼" (-4) JIC Male
Fitting End B: ½" (-2) NPTF Male



C3468
90° ELBOW
Material: Steel
Fitting End A: ¼" (-4) JIC Male
Fitting End B: ½" (-2) NPTF Male

ISO 6149 FITTINGS

- For use in hydraulic power applications
- NPT compatible with NPTF when Teflon® tape or thread sealant is utilized



P55116
FEMALE PIPE CONNECTOR
Material: Brass Body, FKM Seal
Fitting End A: M14 X 1.5
ISO 6149-3 Male
Fitting End B: ⅜" (-2) NPTF Female

SPECIFICATIONS	
MAXIMUM WORKING PRESSURE	0 psi to 1000 psi [0 mPa to 6.9 mPa]
WORKING TEMPERATURE RANGE:	-65°F to 250°F [-54°C to 121°C]

PNEUMATIC ACCESSORIES

Effective for muffling air valve noise, filtering exhaust/intake air & pressure/vacuum equalization



C10774
POROUS BRONZE AIR SILENCER
Material: Bronze/Steel
Fitting End A: ⅜" (-2) NPTF Male
Max Rated: 5 SCFM @ 90 psi



C10833
POROUS BRONZE AIR SILENCER
Material: Bronze
Fitting End A: 10-32 UNF Male
Filtration: 40 µm
Max Rated: 2 CFM @ 90 psi

Pneumatic / Hydraulic Fittings & Accessories

CHECK VALVES

- Pneumatic Operation
- Zero Reverse Leakage
- Corrosion Proof (Brass or Stainless Steel)



C20506
Material: Stainless Steel
External Hex: Standard Size
Inlet: 1/8" (-2) NPT Male
Outlet: 1/8" (-2) NPT Female



C20512
Material: Brass
External Hex: Standard Size
Inlet: 1/4" (-4) NPT Male
Outlet: 1/4" (-4) NPT Male

SPECIFICATIONS	
MAXIMUM WORKING PRESSURE	150 psi [1.03 MPa]
WORKING TEMPERATURE RANGE:	-40°F to 248°F [-40° to 120° C]
MINIMUM FLOW RATE	3.5 SCFM at 5 psi [0.03 MPa]
MAXIMUM CRACKING PRESSURE	5 psi [0.03 MPa]

QUICK EXHAUST VALVES (QEV)

When installed directly onto pneumatic cylinders, a QEV will allow for quick pneumatic cylinder retraction times, by allowing the air compressed air within the pneumatic cylinder to vent directly to atmosphere through the QEV, rather than be pushed back through a length of plumbing back to the activation solenoid.

SPECIFICATIONS	
PRESSURE RANGE	3.9 psi to 145 psi [26.9 kPa to 1,000 kPa]
WORKING TEMPERATURE RANGE:	-40°F to 165°F [-40°C to 74°C]



C10555
QUICK EXHAUST VALVES
Fitting End A: 1/8" (-2) NPT Female
Fitting End B: 1/8" (-2) NPT Female
Fitting End C: 1/8" (-2) NPT Female



C10580
QUICK EXHAUST VALVE
Fitting End A: 1/4" NPT (-4) Female
Fitting End B: 1/4" NPT (-4) Female
Fitting End C: 1/4" NPT (-4) Female

SAE 100R5 END FITTINGS

- Steel reusable end fittings for sae 100R5 (non skive) hose



C11041
SAE 100R5 END FITTINGS
Material: Steel
Fitting End A: 1/4" Nominal ID Hose
Fitting End B: 1/8" (-2) NPT Male



C11042
SAE 100R5 END FITTINGS
Material: Steel
Fitting End A: 1/4" Nominal ID Hose
Fitting End B: 1/4" (-4) NPT Male



C11043
SAE 100R5 END FITTINGS
Material: Steel
Fitting End A: 1/4" Nominal ID Hose
Fitting End B: 1/4" (-4) SAE 45° Female

SPECIFICATIONS	
MAXIMUM WORKING PRESSURE	Hose size dependent
WORKING TEMPERATURE RANGE:	-40°F to 250°F [-40°C to 121°C]

SAE 100R5 MEDIUM PRESSURE HYDRAULIC HOSE (HR5)

For medium pressure hydraulic service in the handling of most hydraulic fluids, gasoline, diesel fuels, lubricating oils, air and water. Recommended for power steering and power steering return lines, fuel filters, turbochargers, tilt lines, lube oil lines and machine tools. Not suitable for use with phosphate esters. Cover is not removed. Meets DOT FMVSS – 106 (Non skive).

- Constructed with a textile inner braid with a single wire braid reinforcement & a cotton braided black cover
- Oil and heat-resistant synthetic rubber inner tube
- For fittings CW500 Crimp/SR500 (series) Reusable



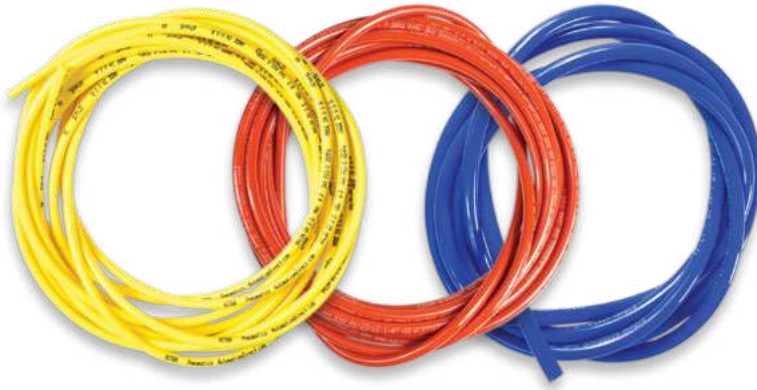
C10107
SAE 100R5 MEDIUM PRESSURE HYDRAULIC HOSE
Radius: 1/4" (-4) Nominal ID Hose
Actual ID: 3/16" [4.76 mm]
Hose OD: .52" [13.21 mm]

SPECIFICATIONS	
WORKING PRESSURE	3000 psi [20.68 MPa]
TEMPERATURE RANGE:	-40°F to 250°F [-40°C to 121°C]
MINIMUM BURST PRESSURE	12,000 psi [82.73 MPa]
MINIMUM BEND RADIUS	3' [76.2 mm]

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES



NYLON TUBING

Nylon is strong and has a very high pressure rating making it ideal for pneumatic applications. Its strength allows it to be manufactured with thin walls while still maintaining a high pressure ratings. Nylon is also stable when exposed to light and heat sources. The combination of high pressure rating, high flow rate, flexibility and strength make it the perfect choice for the Pacbrake PRXB system.

NYLON TUBING

■ DOT tubing is approved for automotive air brake systems

AIRLINE TUBING (NYLON)					
COLOR	SIZE	LENGTH	PART #	STANDARD	DOT
Black	1/8"	20' [6.10 m]	HP1123-20	SAE J844	X
Black	1/8"	30' [9.14 m]	HP1123-30	SAE J844	X
Black	1/8"	40' [12.19 m]	HP1123-40	SAE J844	X
Black	1/8"	50' [15.24 m]	HP1123-50	SAE J844	X
Black	1/4"	20' [6.10 m]	M8280-20	N/A	X
Black	1/4"	30' [9.14 m]	M8280-30	N/A	X
Black	1/4"	40' [12.19 m]	M8280-40	N/A	X
Black	1/4"	50' [15.24 m]	M8280-50	N/A	X
Black	3/8"	20' [6.10 m]	HP1215-20	SAE J844	✓
Black	3/8"	30' [9.14 m]	HP1215-30	SAE J844	✓
Black	3/8"	40' [12.19 m]	HP1215-40	SAE J844	✓
Black	3/8"	50' [15.24 m]	HP1215-50	SAE J844	✓
Red	1/4"	20' [6.10 m]	M8675-20	SAE J844	✓
Red	1/4"	30' [9.14 m]	M8675-30	SAE J844	✓
Red	1/4"	40' [12.19 m]	M8675-40	SAE J844	✓
Red	1/4"	50' [15.24 m]	M8675-50	SAE J844	✓
Blue	1/4"	20' [6.10 m]	M8685-20	SAE J844	✓
Blue	1/4"	30' [9.14 m]	M8685-30	SAE J844	✓
Blue	1/4"	40' [12.19 m]	M8685-40	SAE J844	✓
Blue	1/4"	50' [15.24 m]	M8685-50	SAE J844	✓
Green	1/4"	20' [6.10 m]	M8676-20	SAE J844	✓
Green	1/4"	30' [9.14 m]	M8676-30	SAE J844	✓
Green	1/4"	40' [12.19 m]	M8676-40	SAE J844	✓
Green	1/4"	50' [15.24 m]	M8676-50	SAE J844	✓
Yellow	6 mm	20' [6.10 m]	M8299-20	N/A	X
Yellow	6 mm	30' [9.14 m]	M8299-30	N/A	X
Yellow	6 mm	40' [12.19 m]	M8299-40	N/A	X
Yellow	6 mm	50' [15.24 m]	M8299-50	N/A	X



HP1123



M8280



HP1215



M8675



M8685



M8676



M8299

LOADLEASH®

ENGINE BRAKES by PACBRAKE

APPLICATIONS: Cummins ISB 6.7L Engines & Paccar PX-7 Engines
Cummins ISB 5.9L 24V Common Rail Engines

Designed For The
**HEAVY
HAULER**

THE ONLY ENGINE BRAKE FOR ISB & PX-7 DIESEL ENGINES

As the only true engine brake available for the class 3-5 truck market, Pacbrake's LoadLeash provides big-rig engine braking performance. In addition to enhanced vehicle control & reduced brake fade, Pacbrake's LoadLeash can extend service brake life by up to 500%.

PERFORMANCE Provides over 300 retarding horsepower.*

DESIGN Lightweight support housing replaces the factory valve cover spacer with no valve cover height increase.

SAVINGS Extends the life of your service brake by up to 5 times while reducing truck & trailer brake wear.

WARRANTY 18 month warranty for new vehicles.
12 month/100,000 mile warranty on parts & labor for used vehicles.

COMPLIANT WITH EMISSION STANDARDS & ALL SOUND BYLAW REQUIREMENTS

LoadLeash offers
an increase in safety,
ride comfort & savings

*P67 Applications

LOADLEASH[®]

ENGINE BRAKES by PACBRAKE



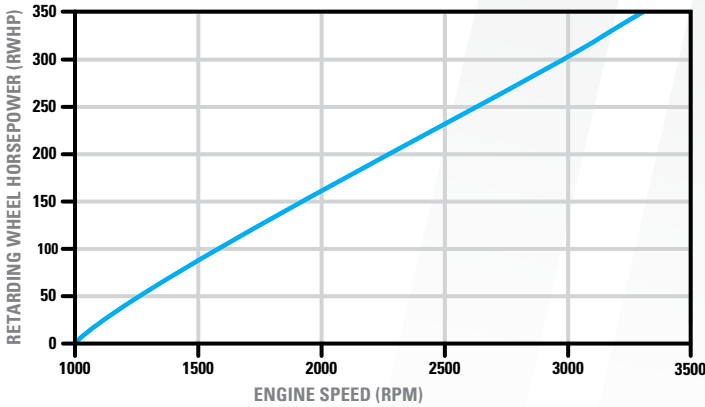
PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES

APPLICATIONS: Cummins ISB 6.7L Engines & Paccar PX-7 Engines
Cummins ISB 5.9L 24V Common Rail Engines

P67 LOADLEASH - RWHP VS RPM - 10% GRADE



OFFERING AN INCREASE IN SAFETY & SAVINGS

- » Up to 5 Times Greater Service Brake Life
- » Provides Over 300 Retarding Horsepower*

*P67 Applications

Let Pacbrake's integrated LoadLeash engine brake show you what real braking is all about!

LOADLEASH ENGINE BRAKE SPECIFICS

ALUMINUM SUPPORT HOUSING

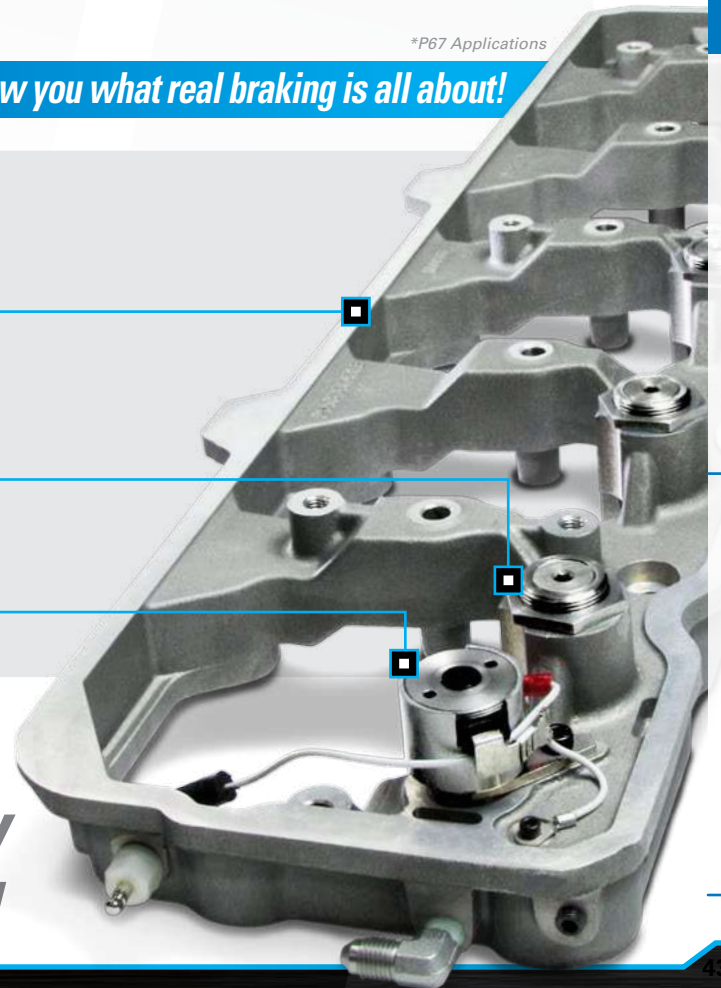
Lightweight support housing replaces the factory valve cover spacer with no valve height increase

MODULAR ENGINE BRAKE CONTROL COMPONENT

Easily serviceable

HYDRAULIC CONTROL SOLENOID

One per brake assembly



Quick & Controlled Braking For Heavy Duty Trucks Just Got Easier!

PACBRAKE LOADLEASH ENGINE BRAKE APPLICATION GUIDE

FOR CUMMINS ISB 6.7L & ISB 5.9L COMMON RAIL 24V DIESEL ENGINES

Aftermarket devices that will install in conjunction with the LoadLeash

APPLICATION	AFTERMARKET TURBO CHARGERS	ARP HEAD STUDS	H&S MINI MAXX	EDGE CTS	DPF & EGR DELETES	PART #
2003-EARLY 2006 DODGE RAM (STD) 2500/3500 with Cummins ISB 5.9L 24V Common Rail Diesel Engines (FOR ENGINES WITH 3 INJECTOR HARNESSSES) <small>NOTE: FOR STANDARD TRANSMISSION ONLY. MUST BE USED IN CONJUNCTION WITH AN EXHAUST BRAKE.</small>	✓	✓ <small>*IMPORTANT NOTES BELOW</small>	✓	✓	N/A	P55006
LATE 2006-2007 DODGE RAM (STD) 2500/3500 with Cummins ISB 5.9L 24V Common Rail Diesel Engines (FOR ENGINES WITH INTEGRATED INJECTOR HARNESS/VALVE COVER GASKET) <small>NOTE: FOR STANDARD TRANSMISSION ONLY. MUST BE USED IN CONJUNCTION WITH AN EXHAUST BRAKE.</small>	✓	✓ <small>*IMPORTANT NOTES BELOW</small>	✓	✓	N/A	P55007
2007 1/2-2013 RAM (STD/AUTO) 2500/3500/4500/5500 Trucks with Cummins ISB 6.7L Diesel Engine <small>PICK-UP/CHASSIS CAB & STERLING CHASSIS CAB</small>	✗	✓ <small>*IMPORTANT NOTES BELOW</small>	✓	✓	✓	P55003
2014-2018 RAM (STD/AUTO) 2500/3500/4500/5500 Trucks with Cummins ISB 6.7L Diesel Engine <small>PICK-UP & CHASSIS CAB</small>	✗	✓ <small>*IMPORTANT NOTES BELOW</small>	✓	✓	✓	P55004
COMMERCIAL TRUCKS (STD/AUTO) <small>** ENGINE MUST USE HARMONIC BALANCER (CUMMINS PART # 4938209) **</small>	✗	✓ <small>*IMPORTANT NOTES BELOW</small>	✓	✓	✓	P55005

6.7L VEHICLES MUST HAVE A VGT TURBO, CONTROLLED BY THE ECU

IMPORTANT NOTE TO ALL INSTALLERS:

***THE LOADLEASH MAY BE INSTALLED WITH ARP2000 STUDS (PART # 247-4202) WITH NO OTHER REQUIRED PARTS. IF INSTALLED WITH CUSTOM AGE 625 STUDS (PART # 247-4204) YOU MUST PURCHASE OUR PAC/ARP STUD KIT (PART # P55127, SHOWN)**

Please ensure the vehicle meets all the prerequisites prior to ordering & installing the P-67 LoadLeash engine brake.



LOADLEASH

KIT COMPONENTS: FEATURES & BENEFITS

- » Automotive grade wiring w/ abrasion protection
- » Precision cast aluminum valve cover spacer
- » IP67 rated controller housing
- » Forged heavy duty bridges
- » SAE & ISO rated fittings
- » Intelligent controller
- » SAE rated hose



LOADLEASH[®]

ENGINE BRAKES by PACBRAKE

APPLICATIONS: Cummins ISB 6.7L Engines & Paccar PX-7 Engines
Cummins ISB 5.9L 24V Common Rail Engines

Don't Let The Downgrades

AFFECT THE UPGRADES

- » Extends service brake life by up to 5 times
- » Provides over 300 braking horsepower*

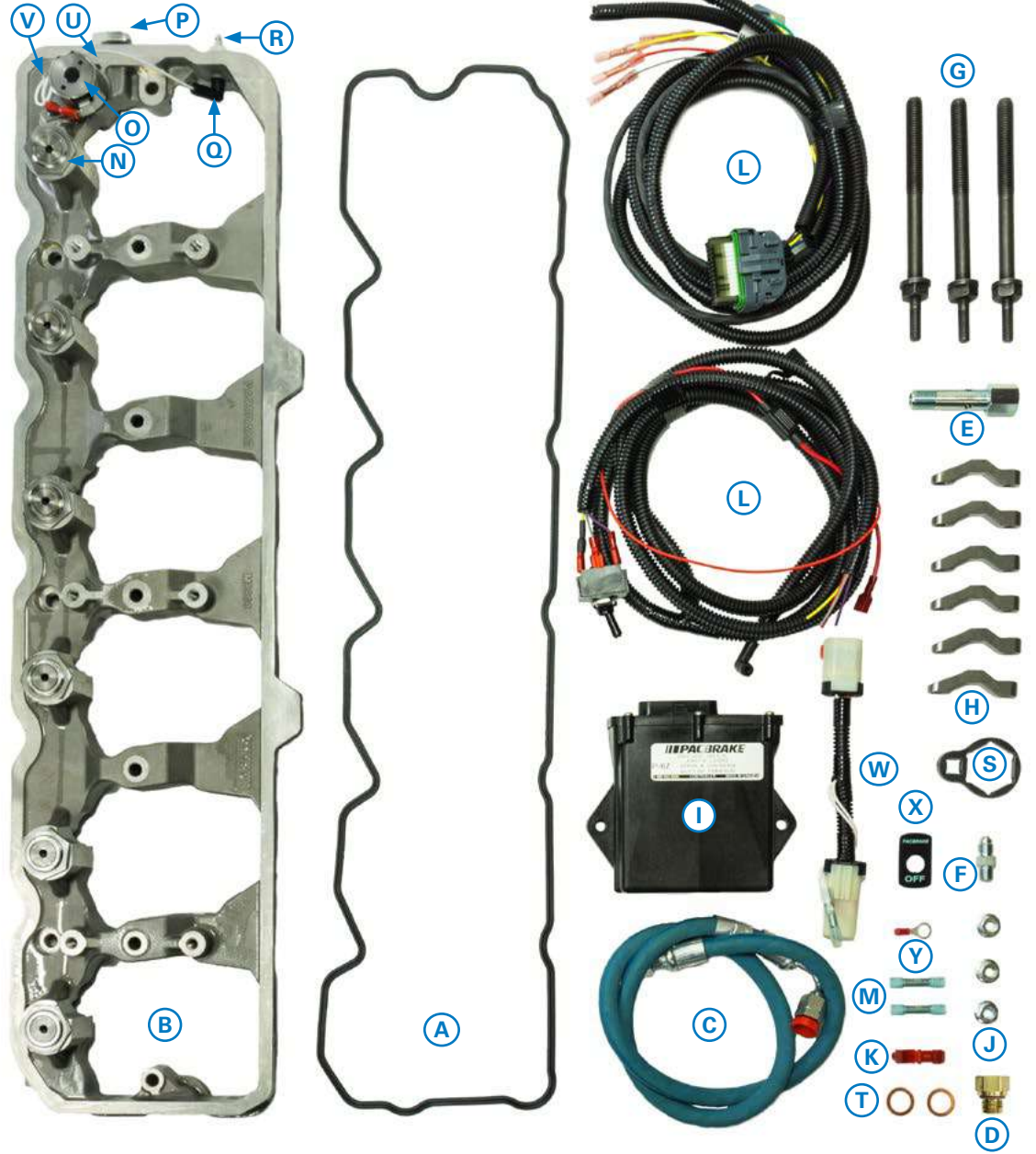
OFFERING AN INCREASE IN
**SAFETY &
SAVINGS**

COMPLIANT WITH EMISSION STANDARDS
& ALL SOUND BYLAW REQUIREMENTS

*P67 Applications

PACBRAKE[®]

P67 LOADLEASH ENGINE BRAKE COMPLETE KIT COMPONENTS

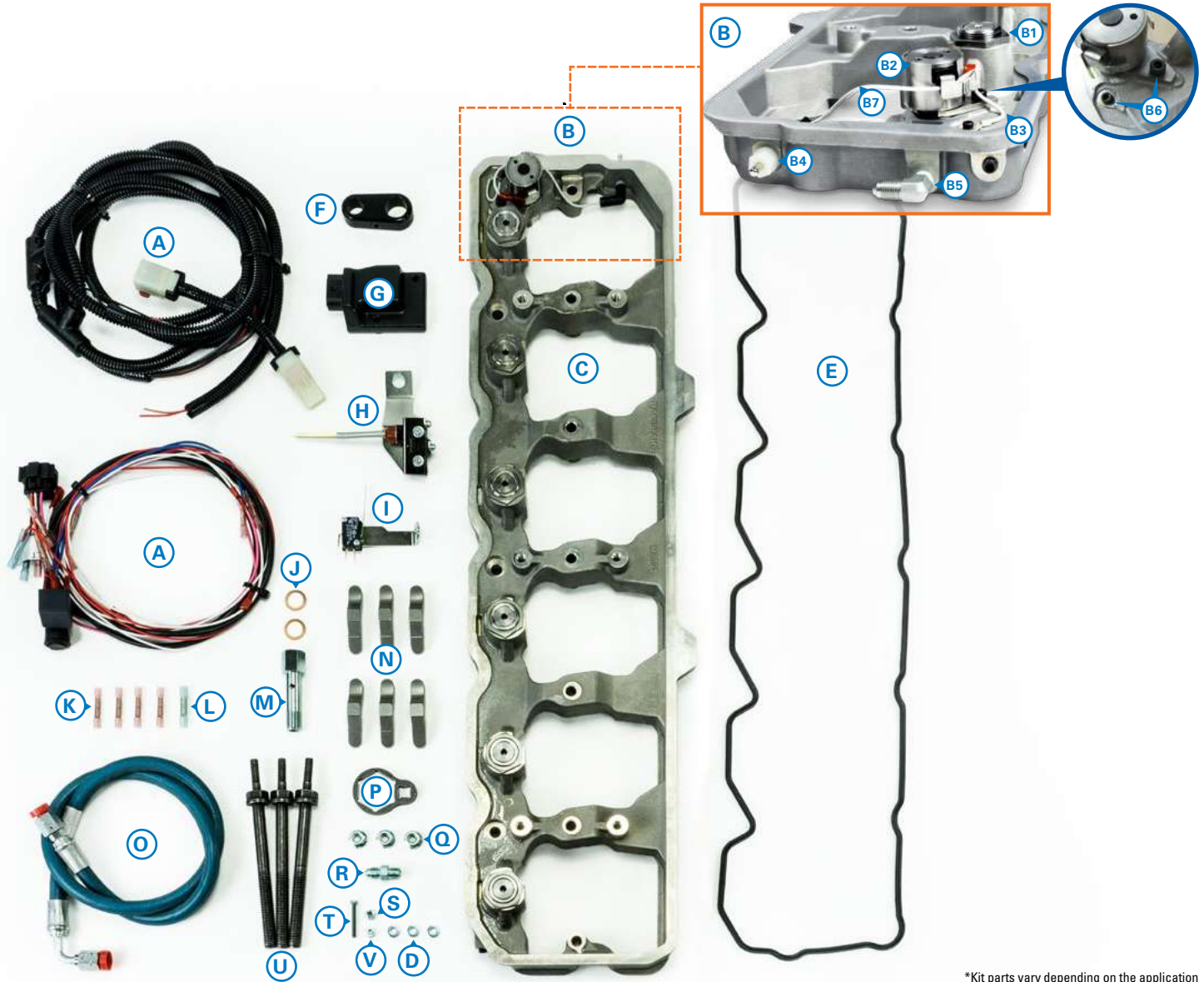


P67 LOADLEASH COMPONENTS & REPLACEMENT PARTS

PART #	COMPONENT	PART #	COMPONENT
A	P55111 Gasket Lower	N	P55106 SMBC, with Jam nut
B	P55102 Assembly Housing	O	M4400 Solenoid with Seals
C	P55101 Assembly Hose	P	C3468 Fitting 90° JIC 1/8" (-2) NPT
D	P55116 ORB Fitting (P55004 & P55005 kits only)	Q	P55119 Harness Solenoid
E	M3466 Bolt, Banjo (P55003 kit only)	R	P34654 Terminal, Thru Head & O-Ring
F	C3467 Fitting JIC 1/8" (-2) NPT	S	P55109 SMBC Jam Nut Wrench
G	M5510 Double Ended Bolt (x 3)	T	C20510 Copper Washer (x 2) (P55003 kits only)
H	M5512 Crosshead (x 6)	U	P55122 Solenoid Holddown Kit
I	C20284 Controller	V	P55120 Solenoid Ground Harness
J	M5514 Nut, Hex Flange M8 x 1.25 (x 3)	W	C20533 Jumper Harness
K	M8194 Scotchlock T-Tap, 18-22 AWG Gauge	X	P01305 Switch Plate
L	C20283 Harness (x 2)	Y	M8107 Ring Terminal 18-22 AWG
M	M8028 Butt Splice 16-14 AWG (x 2)		

PRXB/EXHAUST BRAKES
LOADLEASH ENGINE BRAKES
PACBRAKE ENGINE BRAKES

P59 LOADLEASH ENGINE BRAKE COMPLETE KIT COMPONENTS*



*Kit parts vary depending on the application

P59 LOADLEASH COMPONENTS & REPLACEMENT PARTS

PART #	COMPONENT
A	C20582 Harness
B1	P55106 SMBC, with Jam Nut (x6)
B2	M4400 Solenoid, with Seals
B3	P55120 Harness Ground, Solenoid
B4	P34654 Terminal, Thru Head & O-Ring (1 each)
B4	P34655 Terminal, Thru Head & O-Ring (1 each)
B5	C3468 Fitting, 90° #4 JIC-1/8" NPT
B6	P55122 Solenoid Holddown Kit & Ground Harness
B7	P55119 Harness, Power Solenoid
C	P55102 Assembly Housing
D	C20587 Washer (x3)
E	P55111 Gasket Lower Kit
F	C18039 Shifter Switch Bracket
G	C20583 Controller
H	C20097 Clutch Switch

PART #	COMPONENT
I	C20302 Throttle Switch 2006-2007
J	C20510 Copper Washer (x2)
K	M8112 Butt Splice (x4)
L	M8128 Butt Splice
M	C3466 Bolt, Banjo
N	M5512 Crosshead (x 6)
O	P55101 Assembly Hose
P	P55109 SMBC Jam Nut Wrench
Q	M5514 Nut, Hex Flange M8 x 1.25 (x 3)
R	C3467 Fitting 90° JIC 1/8"(-2) NPT
S	C20586 Nut, Nyloc #8-32
T	C20584 Screw, Machine, #8-32
U	M5510 Double Ended Bolt (x 3)
V	C20585 Nut, #8-32



AIR SOLUTIONS

QUALITY AIR MANAGEMENT PRODUCTS FROM A NAME YOU TRUST



THE #1 SOLUTION

FOR YOUR TOW/HAUL PROBLEMS

AIR SPRINGS



AIR SPRING CONTROLS



COMPRESSORS



TANKS



FITTINGS



AFTERMARKET BY
PAC//BRAKE

*Designed & Manufactured
for Premium Performance*



ENGINE BRAKE FEATURES & BENEFITS

- ▶ Improves control on hills, exit ramps and flat ground deceleration
- ▶ Increases service brake life – reducing vehicle maintenance costs
- ▶ Reduces tire wear by eliminating wheel hop and lock-up skid
- ▶ Single housing design for easy installation and servicing
- ▶ 3 levels of retarding power (low/med/high)
- ▶ Increases the resale value of the vehicle
- ▶ State of the art CNC machining

For over 20 years Pacbrake has successfully designed and manufactured premium engine brakes in-house. The precise machining and timing requirements of engine brakes make them the most challenging supplemental brake solution to design and manufacture. Requiring a true understanding of their integration into the engine, this braking device is something that very few companies can successfully produce. With over 55 years of experience and approved OEM products, Pacbrake has the ability to supply the highest quality engine brakes available today.

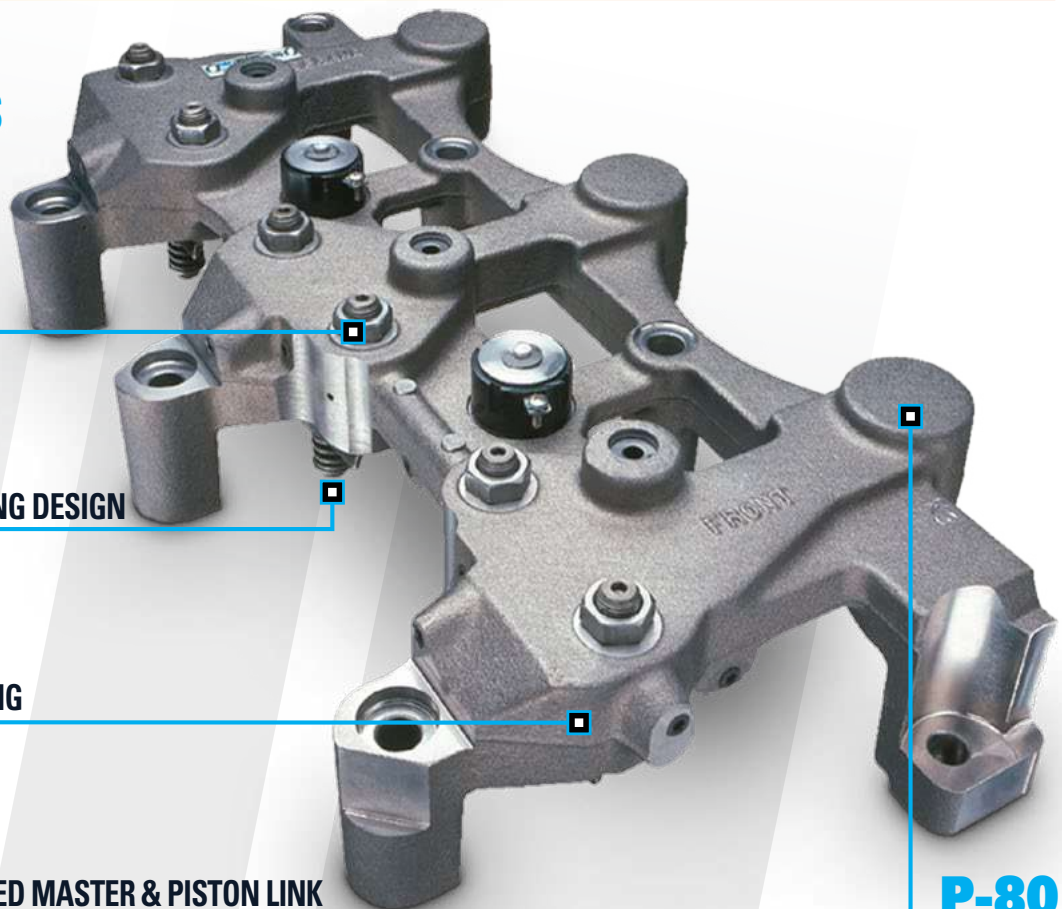
ENGINE BRAKE SPECIFICS

PATENTED PACBRAKE PAFLASH

HEAVY DUTY COMPRESSION SPRING DESIGN

POSITIVE CONTROL VALVE INDEXING

PRECISION MACHINED & HARDENED MASTER & PISTON LINK



P-80
49

AFTERMARKET ENGINE BRAKES

PACBRAKE - DESIGNED, TESTED & PROVEN

Every Pacbrake product is developed within the rigorous specifications of each engine manufacturer and is backed by the best warranty in the industry. Pacbrake is directly connected to over 3000 VOEM truck dealers, engine company dealers and independent repair shops that are located worldwide: US, Canada, Europe, Australia and Mexico.

AFTERMARKET ENGINE BRAKES KITS

	MODEL	DESCRIPTION	PART #
CUMMINS	N-14 Plus	P-14 engine brake complete kit CPL 2025, 2026, 2390, 2391, 2398, 2591, 2592	P14014
	N-14 Plus	P-14A engine brake complete kit CPL 1987, 1833, 1807	P14018
	N-14 Plus	P-14B engine brake complete kit CPL 2003, 1896, 1852, 1844, 1809	P14022

N-14 Plus, P-14, P-14A and P14-B complete kits contain dash switches and engine harness. Consult VOEM for vehicle harness if not equipped.

AFTERMARKET REPLACEMENT HOUSING

	MODEL	SERIAL #	PART #
CUMMINS	P-14	140002 to 143503 +	P14007
	P-14A	340000 to 340040 +	P14009
	P-14B	640000 to 640041 +	P14011

DETROIT	P-80	080000 to 092400	Frt P80001 Housing; Rear P80002 Housing
	P-80	800250B to 800384B +	Frt P80001 Housing; Rear P80002 Housing
	P-80A	092500 to 098624 +	Frt P80006 Housing; Rear P80007 Housing

Dual hole master piston retainers started at 088089 for P-80. All P-80A have dual hole retainers.

* Consult Pacbrake for serial number verification



FEATURES

PATENTED PACBRAKE PACLASH

LEADING TECHNOLOGY

LONGEST WARRANTY

PACBRAKE ENGINE BRAKE PARTS LIST FOR CATERPILLAR ENGINES

PACBRAKE PART #	DESCRIPTION
CATERPILLAR PARTS	
P00813CT	HARNESS
P00825CT	HARNESS - COE, CAT
P01030	SPRING RETAINER
P01040	TERMINAL
P01081	SOLENOID SEAL - UPPER
P01082	SOLENOID SEAL - CENTER
P01083	SOLENOID SEAL - LOWER
P01218	SWITCH
P01244	MACHINE SCREW
P01265	SCREW
P01282	SOLENOID SCREEN
P01283	SOLENOID RETAINER
P01304	TOGGLE SWITCH - ON/OFF
P01305	SWITCH PLATE - OFF
P01492	CAPSCREW - 1/4 X 1/2 HEXHEAD
P01495	CLUTCH SWITCH ASSEMBLY
P01497	SWITCH SPRING
P01500	CONTROL VALVE
P01512	TERMINAL
P01531	SWITCH BRACKET
P01534	DIODE
P01537	MACHINE SCREW
P01538	WASHER - #6 PLATED
P01558	MACHINE SCREW 6-32 X 1/4
P01559	LOCK WASHER
P01722	CAPSCREW, 10-24 X 1/4
P02183	SWITCH LEVER
P02186	NUT - 1/4" HEX NF
P02190	FLAT WASHER - 1/4"
P02411	O-RING
P01244	SUPERSEPEDTO P0124 - MACHINE SCREW 6-32 X 1 RH
P02957	TOGGLE SWITCH - 1/2/3
P02970	TOGGLE SWITCH ASSEMBLY
P03586	TOGGLE SWITCH HI/LOW/OFF
P03776	TOGGLE SWITCH ASSEMBLY
P03777	SWITCH PLATE - HI/LOW/OFF
P03790	CAPSCREW - 1/4-20 X 3/8
P39008	ENGINE RETARDER HOUSING - P39B
P03795	CAPSCREW - 1/4-20 X 1/2
P04205	SOLENOID - 12 VOLT
P04205 - 24	SOLENOID - 24 VOLT
P05610	RETAINER - CAT
P05611	SNAP RING - CAT
P05612	MASTER PISTON
P05639	SEAL
P05647	OIL SUPPLY ADAPTER
P05653	SUPERSEDEDTO C11819
P05654	FLANGED NUT
P05656	PLAIN WASHER - CAT
P07450	SOLENOID HARNESS - CAT
P07500	INNER CONTROL VALVE SPRING
P07832	CENTER SLAVE SPRING - CAT
P07833	OUTER SLAVE SPRING - CAT

PACBRAKE PART #	DESCRIPTION
CATERPILLAR PARTS cont'	
P09353	FLANGED NUT
P09355	JAMNUT 1/2 NF
P11433	INNER SLAVE SPRING
P11434	OUTER CONTROL VALVE SPRING
P11435	INNER CONTROL VALVE SPRING
P11494	SOLENOID SOCKET
P11722	BREATHER HOSE - CATERPILLAR
P11841	MASTER PISTON SPRING
P11930	CONTROL VALVE
P12246A	WOBBLE SWITCH
P12246T	WOBBLE SWITCH
P12261T	WOBBLE SWITCH & BRACKET GROUP
P12269	MOUNTING BRACKET
P13158	MASTER PISTON SPRING - FLAT
P13469	CROSSHEAD
P14908	CLAMP
P15561	SNAP RING
P16505	SUPERSEDED TO P01030 - ACCUMULATOR WASHER
P34601	TUNE UP KIT - CAT 3406/B/C
P34606	PAFLASH ADJUSTING SCREW - WHITE
P34620	HEX NUT - 7/16-18 GR8
P34625	SUPPORT BRACKET WASHER
P34628	HEX NUT 3/4
P34630	MOUNTING WASHER - P36
P34633	WOBBLE SWITCH
P34639	SWITCH
P34643	SUPPORT BASE - P36
P34647	STUD-SUPPORT BASE
P34648	SOLENOID HARNESS - CATERPILLAR
P34650	CONTROL VALVE COVER
P34654	O-RING - VITON
P34655	TERMINAL
P34656	TERMINAL ADAPTER
P34670	FELLER GAUGE - .080"
P34675	FEELER GAUGE - .102" - P37
P38015	PLAIN WASHER
P39008	ENGINE RETARDER HOUSING - P39B
P39009	SUPERSEDED TO P39008
P39010	TUNE-UP KIT (P39)
P39015	SOLENOID 12 VOLT D/L
P39030	SLAVE PISTON
P39032	SLAVE PISTON SPRING
P39037	SLAVE RETAINER P39B
P39038	SNAP RING
P39040	MASTER PISTON
P39041	MASTER RETAINER P39
P39042	SNAP RING
P39044	MASTER CLIP - P39
P39045	SUPERCEDED TO P39168
P39046	MASTER LINK SPRING
P39048	SUPPORT TUBE - P39
P39051	PAFLASH ADJUSTING SCREW - P14
P39070	ATTACHING PARTS GROUP - P39

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES

Engine Brake Parts & Kits

PACBRAKE ENGINE BRAKE PARTS LIST FOR CATERPILLAR & CUMMINS ENGINES

PACBRAKE PART #	DESCRIPTION
CATERPILLAR PARTS cont'	
P39072	CAPSCREW – P39 SERIES
P39073	NUT – HEAVY HEX
P39074	WASHER – P39
P39076	SUPERSEDED TO P39084
P39077	STUD – P39
P39078	WIRE CLIP – P39
P39079	SUPERSEDED TO P39084
P39084	PAFLASH ADJUSTING SCREW – P39B
P39100	INNER CONTROL VALVE SPRING
P39135	SLAVE PISTON LINK
P39148	MASTER PISTON – P39D
P39159	SET SCREW – P39D
P39160	NUT 3/8-24, P39D
P39161	SLAVE LINK P39D
P39162	SLAVE PISTON ASSEMBLY
P39163	SLAVE PISTON RETAINER
P39164	INNER SLAVE SPRING – P39D
P39168	MASTER LINK – P39B/D/E
P60045	RELAY – 12 VOLT CN
P60100	SELF DRILL & TAP SCREW
CUMMINS PARTS	
P00807C	HARNESS
P00821C	HARNESS
P01017	MASTER PISTON – 7/8"
P01022	SLAVE PISTON SPRING
P01023	RETAINING RING
P01030	SPRING RETAINER
P01040	TERMINAL
P01081	SOLENOID SEAL – UPPER
P01082	SOLENOID SEAL – CENTER
P01083	SOLENOID SEAL – LOWER
P01094	NUT – 1/2" NC, HEAVY HEX
P01178	SWITCH BRACKET
P01180	SWITCH COVER
P01181	NUT – HEX
P01199	STUD ASSY
P01218	SWITCH
P01219	THROTTLE SWITCH ASSEMBLY
P01234	STUD SPACER
P01244	MACHINE SCREW
P01265	SCREW
P01282	SOLENOID SCREEN
P01283	SOLENOID RETAINER
P01304	TOGGLE SWITCH – ON/OFF
P01305	SWITCH PLATE – OFF
P14007	ENGINE RETARDER HOUSING – P14
P14009	ENGINE RETARDER HOUSING – P14A
P01492	CAPSCREW – 1/4 X 1/2 HEXHEAD
P01495	CLUTCH SWITCH ASSEMBLY
P01497	SWITCH SPRING
P01512	TERMINAL
P01519	OUTER CONTROL VALVE SPRING
P01531	SWITCH BRACKET
P01534	DIODE

PACBRAKE PART #	DESCRIPTION
CUMMINS PARTS cont'	
P01538	WASHER – #6 PLATED
P01558	MACHINE SCREW 6-32 X 1/4
P01559	LOCK WASHER
P01722	CAPSCREW, 10-24 X 1/4
P02183	SWITCH LEVER
P02186	NUT – 1/4" HEX NF
P02190	FLAT WASHER - 1/4"
P02299	TERMINAL ASSEMBLY
P02390	SOLENOID HARNESS – CUMMINS
P02514	STUD WASHER
P02610P	TEAR-OFF GASKET (PAPER)
P02744	MACHINE SCREW 6-32 X 1 RH
P02856	STUD ASSEMBLY
P02957	TOGGLE SWITCH – 1/2/3
P02969	OIL SUPPLY SCREW
P02970	TOGGLE SWITCH ASSEMBLY
P03790	CAPSCREW – 1/4-20 X 3/8
P03795	CAPSCREW – 1/4-20 X 1/2
P04089	MASTER PISTON
P04136	CONTROL VALVE COVER
P04205	SOLENOID – 12VOLT
P04205-24	SOLENOID – 24VOLT
P04841	VALVE COVER GASKET (CORK)
P07447	MASTER PISTON SPRING
P07500	INNER CONTROL VALVE SPRING
P07623	SLAVE PISTON – CUMMINS
P08532	VALVE COVER GASKET (CORK)
P08895	SLAVE PISTON RETAINER
P09353	FLANGED NUT
P09355	JAMNUT 1/2 NF
P09916	SET SCREW
P10180	SEAL – CUMMINS
P11436	OUTER CONTROL VALVE SPRING
P11437	INNER CONTROL VALVE SPRING
P11470	SPACER STUD – CAT
P11494	SOLENOID SOCKET
P11930	CONTROL VALVE
P12246A	WOBBLE SWITCH
P12246T	WOBBLE SWITCH
P12261T	WOBBLE SWITCH & BRACKET GROUP
P12269	MOUNTING BRACKET
P12504	ATTACHING GROUP
P13294	GASKET – CUMMINS (METAL)
P14007	ENGINE RETARDER HOUSING – P14
P14008	PAFLASH ADJUSTING SCREW – P14
P14009	ENGINE RETARDER HOUSING – P14A
P14011	ENGINE RETARDER HOUSING – P14B
P14013	TUNE-UP KIT P14/A/B
P14014	ENGINE BRAKE BASE KIT P-14 N14PLUS 12V S/L (Check CPL #s)
P14015	MOUNTING GROUP P14
P14018	ENGINE BRAKE BASE KIT P14A 94N14 12V S/L (Check CPL #s)
P14022	ENGINE BRAKE BASE KIT P14B 94N14 12V S/L (Check CPL #s)

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES

PACBRAKE ENGINE BRAKE PARTS LIST FOR CUMMINS & DETROIT ENGINES

PACBRAKE PART #	DESCRIPTION
CUMMINS PARTS cont'	
P14035	ENGINE CONTROL GROUP – P14
P14068	SWITCH GROUP
P14100	COLLAR
P14848	GASKET – P38 (METAL)
P14873	CROSSHEAD
P14908	CLAMP
P15561	SNAP RING
P16846	GASKET (METAL)
P16846-3	GASKET (METAL 3 PACK)
P18792	MASTER PISTON SPRING – 455 B/C
P19103	SLAVE PISTON -N14
P19104	OUTER SLAVE PISTON SPRING – N14
P19105	INNER SLAVE PISTON SPRING – N14
P19139	SLAVE PISTON SPRING RETAINER
P20800	HARNES P14
P20925	MASTER PISTON ASSEMBLY – N14
P34655	TERMINAL
P38011	TUNE-UP KIT CUMMINS 88NT
P38015	PLAIN WASHER
P38020	MASTER PISTON
P38025	OIL SUPPLY SCREW P-38
P38045	INJECTOR ADJUSTING SCREW
P38070	PACLASH ADJUSTING SCREW P-38
P40012	GASKET KIT – CUMMINS (CORK)
P40022	GASKET KIT – CUMMINS (METAL)
P40024	TUNE-UP KIT WITH GASKETS
P40055	SLAVE PISTON SPRING
P40060	SLAVE PISTON P40
P40070	PACLASH ADJUSTING SCREW – BLUE
P40071	PACLASH ADJUSTING SCREW
P40072	PACLASH ADJUSTING SCREW – RED
P60045	RELAY – 12 VOLT CN
P60100	SELF DRILL & TAP SCREW
P60125	SWITCH PLATE
DETROIT PARTS	
P01040	TERMINAL
P01081	SOLENOID SEAL – UPPER
P01082	SOLENOID SEAL – CENTER
P01083	SOLENOID SEAL – LOWER
P01218	SWITCH
P01244	MACHINE SCREW
P01265	SCREW
P01282	SOLENOID SCREEN
P01283	SOLENOID RETAINER
P01287	OIL CONNECTOR
P01304	TOGGLE SWITCH – ON/OFF
P01305	SWITCH PLATE - OFF
P01492	CAPSCREW – 1/4 X 1/2 HEXHEAD
P01495	CLUTCH SWITCH ASSEMBLY
P01497	SWITCH SPRING
P01500	CONTROL VALVE
P01512	TERMINAL
P01531	SWITCH BRACKET
P01534	DIODE

PACBRAKE PART #	DESCRIPTION
DETROIT PARTS cont'	
P01538	WASHER – #6 PLATED
P01558	MACHINE SCREW 6-32 X 1/4
P01559	LOCK WASHER
P01722	CAPSCREW, 10-24 X 1/4
P02183	SWITCH LEVER
P02186	NUT-1/4" HEX NF
P02190	FLAT WASHER – 1/4"
P02744	MACHINE SCREW 6-32 X 1 RH
P02957	TOGGLE SWITCH – 1/2/3
P02970	TOGGLE SWITCH ASSEMBLY
P03790	CAPSCREW 1/4-20 X 3/8
P03795	CAPSCREW 1/4-20 X 1/2
P04205	SOLENOID – 12 VOLT
P04205-24	SOLENOID – 24 VOLT
P07500	INNER CONTROL VALVE SPRING
P09353	FLANGED NUT
P09355	JAMNUT 1/2 NF
P11434	OUTER CONTROL VALVE SPRING
P11435	INNER CONTROL VALVE SPRING
P11494	SOLENOID SOCKET
P12246A	WOBBLE SWITCH
P12246T	WOBBLE SWITCH
P12261T	WOBBLE SWITCH & BRACKET GROUP
P12269	MOUNTING BRACKET
P14908	CLAMP
P15561	SNAP RING
P17658	MASTER PISTON SPRING – 760A/765
P34650	CONTROL VALVE COVER
P38015	PLAIN WASHER
P50007	FLANGE NUT
P50072	PACLASH ADJUSTING SCREW – P50
P50150	CONTROL GROUP – P50 DDECII
P50155	CONTROL GROUP – P50 DDEC III
P60004	OUTER SLAVE PISTON – P63C
P60008	SLAVE PISTON
P60013	FLAT SPRING – P63A/B/C
P60016	MASTER PISTON
P60019	SPRING PLATE
P60021	CAPSCREW – 12PT
P60022	WASHER
P60023	SPACER BAR
P60029	INNER SLAVE PISTON – LARGE
P60030	BRIDGE SPRING
P60031	MASTER PISTON – LARGE
P60045	RELAY - 12 VOLT CN
P60046	HARNES – DDEC
P60047	HARNES – THRU HEAD
P60048	HARNES – UNDER COVER
P60049	JUMPER WIRE – P63
P60050	ATTACHING PARTS GROUP P61/P63
P60051	HARNES – UNDER COVER – P-50
P60053	CONTROL VALVE SPRING – P63
P60054	ACCUMULATOR SPRING – P63
P60059	ACCUMULATOR SPRING – INNER P63

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES

Engine Brake Parts & Kits

PACBRAKE ENGINE BRAKE PARTS LIST FOR DETROIT & MACK ENGINES

PACBRAKE PART #	DESCRIPTION
DETROIT PARTS cont'	
P60060	ACCUMULATOR PISTON – P50/61/63
P60061	OUTER ACCUMULATOR SPRING – P63
P60063	HARNESS –THRU HEAD, DDEC III
P60064	MASTER PISTON – P63
P60065	OUTER SLAVE PISTON – LARGE
P60066	INNER SLAVE PISTON – LARGE
P60070	SLAVE PISTON BRIDGE – SERIES 60
P60073	PACLASH ADJUSTING SCREW
P60085	HARNESS EXTENSION – COE, DDEC II
P60086	BRIDGE SPRING RETAINER P63
P60090	INNER SLAVE SPRING – P63C
P60096	SHOULDER BOLT – P63C
P60100	SELF DRILL & TAP SCREW
P60101	TUNE UP KIT – P61/P63/A/B/C
P60122	PACLASH ADJUSTING SCREW – P61
P60125	SWITCH PLATE
P60150	CONTROL GROUP – DDEC II
P60154	CONTROL GROUP – DDC ENABLE
P60155	CONTROL GROUP – DDEC III
P63012	RETROFIT KIT – P50-P63B
P63013	RETROFIT KIT – P63C
P80001	ENGINE RETARDER HOUSING – P80 FRONT
P80002	ENGINE RETARDER HOUSING – P80 REAR
P80003	MOUNTING GROUP – P80/A
P80004	SPACER GROUP P – 80/A
P80010	TUNE-UP KIT – P80
P80011	SLAVE PISTON – 7/8" P80
P80012	SET SCREW, 10-24 X 1/2
P80013	MASTER PISTON SPRING – P80
P80014	CAPSCREW-M12 X 150MM – P80
P80015	CAPSCREW M12 X 180MM – P80
P80016	WASHER – P80
P80017	RETAINER – P80
P80018	MASTER PISTON – 1", P80
P80019	SPACER – CYLINDER HEAD – P80
P80024	RETAINER – P80
P80026	SET SCREW – 3/8- 16 X 3/4
P80027	HEX NUT – 3/8 GR8-P80
P80028	ENGINE BRAKE BASE KIT P-80A 12.7L 2001 DDC S60 – 12 VOLT S/L (Check CPL #S)
P80029	RETAINER – P80A
P80031	COMPRESSION SPRING P80A
P80033	LINK – P80A
P80034	RETROFIT KIT – P80
P80035	ADJUSTING SCREW AND NUT P-80A
P80037	TUNE-UP KIT – P80A
P80048	HARNESS-UNDER COVER P80
P80086	BRIDGE SPRING RETAINER – P80
P80087	SHOULDER BOLT – 5/16 X 1.5 – P80
P80088	SPRING RETAINER P80A
P80089	INNER BRIDGE SPRING – P80A
P80090	OUTER BRIDGE SPRING – P80A
P80091	SHOULDER BOLT – P80
P80100	UPDATE KIT P-80
P80155	CONTROL GROUP – P80, DDECIV

PACBRAKE PART #	DESCRIPTION
MACK PARTS	
P01040	TERMINAL
P01081	SOLENOID SEAL-UPPER
P01082	SOLENOID SEAL-CENTER
P01083	SOLENOID SEAL-LOWER
P01218	SWITCH
P01244	MACHINE SCREW
P01265	SCREW
P01282	SOLENOID SCREEN
P01283	SOLENOID RETAINER
P01304	TOGGLE SWITCH – ON/OFF
P01305	SWITCH PLATE – OFF
P01492	CAPSCREW – 1/4 X 1/2 HEXHEAD
P01495	CLUTCH SWITCH ASSEMBLY
P01497	SWITCH SPRING
P01512	TERMINAL
P01531	SWITCH BRACKET
P01534	DIODE
P01537	MACHINE SCREW
P01538	WASHER – #6 PLATED
P01558	MACHINE SCREW 6-32 X 1/4
P01559	LOCK WASHER
P01722	CAPSCREW, 10-24 X 1/4
P01793	TERMINAL
P02183	SWITCH LEVER
P02186	NUT – 1/4" HEX NF
P02190	FLAT WASHER-1/4"
P02744	MACHINE SCREW 6-32 X 1 RH
P03790	CAPSCREW 1/4-20 X 3/8
P03795	CAPSCREW – 1/4-20 X 1/2
P04205	SOLENOID – 12 VOLT
P07500	INNER CONTROL VALVE SPRING
P09353	FLANGED NUT
P09355	JAMNUT 1/2 NF
P11494	SOLENOID SOCKET
P12246A	WOBBLE SWITCH
P12246T	WOBBLE SWITCH
P12261T	WOBBLE SWITCH & BRACKET GROUP
P12269	MOUNTING BRACKET
P14908	CLAMP
P60045	RELAY – 12 VOLT CN
P60100	SELF DRILL & TAP SCREW

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES

ENGINE BRAKE SOLENOIDS

PACBRAKE | CATERPILLAR | CUMMINS | DETROIT | MACK

PACBRAKE'S FOUR ENGINE BRAKE SOLENOIDS COVER OVER THIRTY POSSIBLE OEM PART NUMBERS. MAKING PACBRAKE YOUR ONE STOP SUPPLIER FOR RESTORING MAXIMUM ENGINE BRAKE PERFORMANCE WHILE REDUCING MAINTENANCE COSTS.

HOW DO YOU KNOW WHEN TO REPLACE THEM?

In most cases either a solenoid works or doesn't. A simple test to start with is to apply a positive power source to the terminal and a negative source to the other tab (in the case of a dual lead or the main body of a single lead). A good solenoid should pull the armature down with a minimum of 8 volts at ambient temperature (12 VDC).

Later model engines have the ability to detect solenoid problems within the engine ECU. When one of the solenoids fails to operate, the engine ECU will log a fault code. This is evident by the "CEL" check engine light coming on. By scanning the engine ECU to retrieve the fault code, it can be determined what problem was detected by cross referencing the fault code against the engine manufacturer's chart. Please keep in mind that bad electrical connections or wires shorting out will generate the same codes as a defective solenoid, so always check the connections and wiring harnesses before replacing a solenoid. Another check which can be performed is a simple check of the coils resistance (ohms). Pacbrake 12 VDC solenoids should have a resistance of 15.5 ohms +/- 15% and 24 VDC coils should have a resistance of 60 ohms +/- 15% at ambient temperature. Keep in mind that as the solenoid's temperature increases so does the resistance (ohms). In some cases, a solenoid will perform normally until it reaches a certain temperature then it may momentarily act as an open circuit or short to ground. This situation can only be diagnosed by heating the solenoid up to operating temperature while checking the resistance throughout the heating process, watching for fluctuations in resistance in the meter. Heating can be achieved by energizing the solenoid for a ten minute period.

HOW MANY SEALS DOES A SOLENOID CONTAIN?

Four. Three externally, visible seals and one internal, non-replaceable sealed inside the main body. After replacing the three external seals, torque the solenoid, if you have oil coming out the bottom, the internal seal is leaking and solenoid replacement is necessary.

Solenoid torque is one of the most common reasons for solenoid failures, either the correct tool wasn't used for removal or it was over-torqued. The solenoid cap, which is pressed onto the main body, determines the coil to armature clearance. The larger the clearance, the more voltage it takes to energize the solenoid. Only use the correct tool to remove and install a solenoid and do not exceed specified torque.

With all these points in mind, the question is: How much time does it take to test a solenoid verses replacing it?

BENEFITS

RESTORE MAXIMUM ENGINE
BRAKE PERFORMANCE
WHILE REDUCING VEHICLE
MAINTENANCE COSTS

SOLENOIDS

ENGINE MODEL	JACOBS BRAKE MODEL #	SOLENOID TYPE*	JACOBS PART #	CUMMINS PART #	CAT PART #	DETROIT PART #	MACK PART #	PACBRAKE SOLENOID	
CUMMINS	NH/NT 855	20, 25, 25B, 30, 30E, 400, 400H, 401A, 401B, 401C	Single Lead 12 VDC	016440, 4205	3871463	N/A	N/A	N/A	P04205
	KT, KTC, KTA,	K200, K1150, K1200	Single Lead 12 VDC	003784, 004205, 008674	3871463	N/A	N/A	N/A	P04205 + P02390
	L10	404, 404B, 404BG, 404C, 404D	Single Lead 12 VDC	016440, 1020239, 1021252, 1024613	3871463	N/A	N/A	N/A	P04205
	L10	404D	Single Lead 24 VDC	016441, 020236, 1020238	3871464	N/A	N/A	N/A	P04205-24
	M11, M11 Plus	411	Single Lead 12 VDC	016440, 1020239, 1021252, 1024613	3871707	N/A	N/A	N/A	P04205
	M11, M11 Plus	411	Dual Lead 24 VDC	1024617	3871709	N/A	N/A	N/A	P04206
	M11, M11 Plus	411	Single Lead 24 VDC	016441, 020236, 020238	3871708	N/A	N/A	N/A	P04205-24
	ISM	411C	Single Lead 12 VDC	1024610	3871711	N/A	N/A	N/A	P04205
	ISM	411D, 411E	Single Lead 12 VDC	1024613	3871707	N/A	N/A	N/A	P04205
	88 NT	430 FT, 430 STC	Single Lead 12 VDC	016440, 1020239, 1021252, 1024613	3871708	N/A	N/A	N/A	P04205
	88 NT	430 FT, 430 STC	Single Lead 24 VDC	016441, 021254	3871708	N/A	N/A	N/A	P04205-24
	N14	440, 440A	Single Lead 12 VDC	016440	3871463	N/A	N/A	N/A	P04205
	N14	440, 440A	Dual Lead 24 VDC	016441	3871708	N/A	N/A	N/A	P04205-24
	N14 Plus	450A, 450B, 455	Single Lead 12 VDC	021252, 1024613	3871635, 3871707	N/A	N/A	N/A	P04205
	N14 Plus	450A, 450B, 455	Single Lead 24 VDC	024616	3871708	N/A	N/A	N/A	P04205-24
N14 Plus	450A, 450B, 455	Dual Lead 24 VDC	1021253, 1024617	3871637, 3871709	N/A	N/A	N/A	P04206	
CATERPILLAR	3176, C10, C12	310, 310A, 312A, C317, C317A, 317B, 317C, 317D, 317E	Dual Lead 12 VDC	1019650	N/A	143-6627 163-1533	N/A	N/A	P39015
	3176, C10, C12	310, 310A, 312A, C317, C317A, 317B, 317C, 317D, 317E	Single Lead 12 VDC	016440, 1020239, 1021252, 1024613	N/A	143-2558 154-7028 163-1550	N/A	N/A	P04205
	C10, C12	C310A, C312A	Dual Lead 24 VDC	1021253	N/A	143-6669	N/A	N/A	P04206
	3306	C336, 336A	Single Lead 12 VDC	016440, 1020239, 1021252, 1024613	N/A	143-2558 163-1550	N/A	N/A	P04205
	3306	C336, 336A	Single Lead 24 VDC	020236, 1020238	N/A	143-6643 143-6645	N/A	N/A	P04205-24
	3406, B, C	C346, C346A, C346B, C346C, C346D, C349A	Single Lead 12 VDC	016440, 1020239, 1021252, 1024613	N/A	143-2558 163-1550	N/A	N/A	P04205
	3406E, C15, C16[340, 340A, 340B, 340C, 340D, 340E[Dual Lead 12 VDC	019650, 1020239, 1021252, 1024610	N/A	143-6627 163-1533	N/A	N/A	P39015
3406E, C15, C16	340, 340A, 340B, 340C, 340D, 340E	Dual Lead 24 VDC		N/A	163-1553	N/A	N/A	P04206	
DETROIT DIESEL	Detroit	6/71, 6V71, 8V71, 8V92, 6V92, 12V71, 12V92	Single Lead 12 VDC	016440	N/A	N/A	4205	N/A	P04205
	S60	760, 760A, 765, 770, 790, 790B, 790C, 790D, 795, 797, 797A	Single Lead 12 VDC	016440, 1020239, 1021252, 024612, 1024613	N/A	N/A	1024612	N/A	P04205
	S60 24 VDC Vehicles	760, 760A, 765, 770, 790, 790B, 790C, 790D, 795, 797, 797A	Single Lead 24 VDC	016441, 020236, 1020238	N/A	N/A	1024619	N/A	P04205-24
	S60	797B	Dual Lead 12 VDC	034737	N/A	N/A	1034737	N/A	P39015
MACK	Mack	675, 676, 677	Single Lead 12 VDC	016440	N/A	N/A	N/A	4205	P04205
	Mack E6, E7	680A, 680B	Single Lead 12 VDC	016440, 1020239, 1021252, 1024613	N/A	N/A	N/A	16440	P04205

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES

ENGINE BRAKE TUNE-UP KITS



KITS CONTAIN
SEAL RINGS, O-RINGS,
FASTENERS, CONTROL
VALVES, COIL SPRINGS,
SOLENOID LEAD WIRES,
LEAF SPRINGS & MORE...*

*Tune-up kit contents vary depending on application

GET BACK BIG POWER

TUNE-UP YOUR ENGINE BRAKE, NO MATTER WHAT BRAND

WHAT YOU NEED TO KNOW ABOUT ENGINE BRAKE MAINTENANCE AND THE RESTORATION OF YOUR ENGINE BRAKE PERFORMANCE...Engine brakes perform an essential part of diesel engine operation. They provide a major role in retarding the engine on downgrades and during regular stopping. Consequently, they save substantially on service brakes and add a dimension of safety and speed control of the vehicle.

Almost all class 8 vehicles come from the factory equipped with engine brakes.

Engine brakes are used regularly and their moving parts wear over time. It's not unusual to see a 20% to 25% decline of engine retarding with normal wear over 300,000 miles. As a driver, you may not notice the declining efficiency of the engine brake as the loss is gradual. With the decline of your engine brake efficiency come more regular use and wear and tear of your service brakes.

A single brake re-line will cost you many times more than an engine brake tune-up kit. Your dealer may recommend that you take the advantage of tuning up your engine brake at 250,000 - 300,000 miles or as the fuel injectors or valves are set.

Because engine brake removal is a part of the process in the maintenance of the fuel injectors and valve setting, it is an ideal time to perform engine brake maintenance with a Pacbrake engine brake tune-up kit.

Make safety a priority while saving time and money with Pacbrake's premium quality tune-up kit parts at a fraction of the OEM cost. Ask your local dealer about engine brake maintenance today.

TUNE-UP KITS FOR PACBRAKE ENGINE BRAKES

ENGINE	PACBRAKE MODEL #	PART #
CATERPILLAR		
C15	P39A/B/D/E	P39010
C16	P39A/B/D/E	P39010
3406E	P39A/B	P39010
3406B/C	P36	P34601

CUMMINS		
N-14	P14A/B	P14013
88/NT	P38	P38011
855	P30/40	P40024

DETROIT		
Series 60	P61, P63A/B/C	P60101
Series 60	P80	P80010
Series 60	P80A	P80037
Series 60	P80C	P80037

TUNE-UP KITS FOR JACOBS / OEM ENGINE BRAKES

ENGINE	JACOBS MODEL #	PACBRAKE PART #	JACOBS PART #	ENGINE BRAKE PART #
CATERPILLAR				
C10	310A	P19502	19502	143-6626
C12	312A	P19502	19502	143-6626
3176	317D/E	P19502	19502	143-6626
C15	340C/D/E	P19654	19654	143-6628
C16	340C/D/E	P19654	19654	143-6628
3406E	340A/B	P19654	19654	143-6628
3406B/C	346A/B/C/D	P34601	14087	143-6479

CUMMINS				
L10	404/B/BG/D	P19848	19848, 20131	3871540, 3871580, 3871586
M11	411	P19848	19848	3871580
ISM	411C	P19848	19848	3871580
N-14	440/A, 450A/B	P20923	20923	3871568
N-14+	455B/C	P20923	20923	3871704
88/89NT	430	P38011	017690	3871538
NH/NT	425A, 400/H, 425A	P40024	017689	3871537
NH/NT	401/A/B/C, 420, 425A	P40026	017687, 017688, 017689	3871536
855	44B, 400/H, 425A	P40024	013950	3871418
855	401/A/B/C, 420, 425	P40026	017687, 017688, 017689	3871536

DETROIT				
6V-71/92	71A, 92A	P69201	017056	17056
8V-71/92	71A, 92A	P89201	017056	17057
Series 50	750/A	P20530	20530	20530
Series 60	760	P19875	19875	19875
Series 60	760A, 765/A	P20531	20531	20531
Series 60	760A, 765/A, 770	P20520◆	N/A	N/A
Series 60	790	TBA	29013	29013
Series 60	795	TBA	29013	29013
Series 60	797	TBA	32146	32146

MACK				
E6-2V	675A	P18676	18676	4559-18676
E6-4V	680A	P18677	18677	4559-18677
E7	680B	P18678	18678	4559-18678
E-Tech Aset	690	TBA	31180	4559-31180



◆ Tune up Kit (econo) Contains no lash adjusting screws

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES

CATERPILLAR REPLACEMENT PARTS CROSSOVER LIST

CAT PART #	PACBRAKE PART #	DESCRIPTION
Replacement Engine Brake Tune-up Kits		
143-6479	P34601	3406/B/CTUNE-UP KIT
143-6626	P19502	TUNE-UP KIT C10/C12
143-6628	P19654	TUNE-UP KIT JAKE 340/A/B/C

Replacement Engine Brake Solenoids		
01-021253	P04206	SOLENOID 12 VOLT D/L
163-1533	P39015	SOLENOID 12 VOLT D/L
163-1547	P04205-24	SOLENOID 24 VOLT S/L
163-1553	P04206	SOLENOID 24 VOLT D/L
2U-1490	P04205	SOLENOID 12 VOLT

Complete Parts List		
01-021253	P04206	SOLENOID 24 VOLT D/L
OS-1614	P01492	CAPSCREW-HEX
102-8780	P11930	CONTROL VALVE
143-2533	P11283	CONTROL VALVE
143-2534	P11284	SNAP RING, CONTROL VALVE
143-2536	P11823	SPRING, CONTROL VALVE – INNER
143-2539	P12991	RETAINING RING
143-2544	P14928	COVER, CONTROL VALVE
143-2545	P15561	SNAP RING
143-2546	P01030	WASHER ACCUMULATOR
143-2557	P15906	SPACER GASKET
143-2559	P01023	RETAINING RING
143-2561	P01180	SWITCH COVER
143-2562	P01244	SELF-TAPPING SCREW
143-2563	P01512	TERMINAL
143-2564	P01534	DIODE
143-2565	P01558	6-32 x 1/4 RD SL MACHINE SCREW
143-2570	P03586	SWITCH – HI/LOW/OFF
143-2574	P03777	PLATE – HI/LOW/OFF
143-2584	P05639	SEAL
143-2590	P39100	INNER CONTROL VALVE SPRING
143-6455	P12246T	WOBBLE SWITCH
143-6456	P12261T	WOBBLE SWITCH & BRACKET GROUP
143-6458	P12269	MOUNTING BRACKET
143-6479	P34601	3406/B/CTUNE-UP KIT
143-6545	P60045	RELAY
143-6549	P01304	TOGGLE SWITCH – ON/OFF
143-6557	P17368	SOLENOID HARNESS
143-6564	P17593	RELAY BASE ASSEMBLY
143-6584	P39046	SPRING
143-6589	P18222	CONTROL VALVE COVER
143-6618	P19353	SPRING, MASTER PISTON-FLAT
143-6626	P19502	TUNE UP KIT C10/C12

CAT PART #	PACBRAKE PART #	DESCRIPTION
Complete Parts List cont'		
143-6628	P19654	TUNE UP KIT JAKE 340/A/B/C
143-6642	P01081	UPPER SEAL RING
143-6684	P02390	SOLENOID HARNESS – CUMMINS
143-6692	P60125	SWITCH PLATE
143-6699	P07450	SOLENOID HARNESS – CAT
143-6703	P11251	COLLAR, CONTROL VALVE
143-6705	P09355	HEX NUT
143-6721	P14908	CLAMP
148-7445	P11253	OUTER CONTROL VALVE SPRING
148-7448	P01518	INNER CONTROL VALVE SPRING
155-5586	P01305	PLATE – OFF
163-1533	P39015	SOLENOID 12 VOLT D/L
163-1547	P04205-24	SOLENOID 24 VOLT S/L
163-1553	P04206	SOLENOID 24 VOLT D/L
171-2425	P02299	TERMINAL ASSEMBLY
171-4737	P01500	CONTROL VALVE
1Q-9544	P11722	BREATHER HOSE – CAT
1Q-9551	P03790	1/4- 20 x 3/8 BHSC NYLON PATCH
1Q-9830	P01218	SWITCH
2U-1467	P11433	SPRING
2U-1468	P07832	CENTER SLAVE SPRING – CAT
2U-1469	P07833	OUTER SLAVE SPRING – CAT
2U-1471	P05611	SNAP RING – CAT
2U-1478	P01265	SCREW
2U-1481	P05612	MASTER PISTON
2U-1485	P01722	SCREW-SOCKET HEAD
2U-1487	P11434	CONTROL VALVE SPRING – OUTER
2U-1488	P11435	CONTROL VALVE SPRING – INNER
2U-1490	P04205	SOLENOID 12 VOLT
2U-1492	P01082	CENTER SOL. SEAL VITON
2U-1493	P01083	LOWER SOL SEAL VITON
2U-1501	P05653	5/16 X 1NC PLTHX SERR FLG SCRW – SUPERSEDED TO C11819
2U-1522	P01031	3/8- 24 X 3/4 SOC SET FLPT ALLOY
2U-1526	P13158	FLAT SPRING
3L-8187	P01559	LOCK WASHER
7C-0030	P05647	OIL SUPPLY ADAPTER
7C-0031	P02411	O-RING
7C-0033	P11470	SPACER STUD –CAT
7C-0048	P13469	CROSSHEAD
9L-7712	P01026	JAM NUT-HEX 3/8 NF
9L-9814	P05654	5/16- 18 SERR FLNGE ZINC NUT
9M-1974	P05656	PLAIN WASHER – CAT
SOLENOID	P01282	SCREEN, SOLENOID
SOLENOID	P01283	RETAINER, SOLENOID

ENGINE BRAKE DISCLAIMER: See engine brake disclaimer on following pages

CUMMINS REPLACEMENT PARTS CROSSOVER LIST

CUMMINS PART #	PACBRAKE PART #	DESCRIPTION
Replacement Engine Brake Kits & Housings		
3804594	P14018	ENGINE BRAKE BASE KIT 94N14-450A 12 VOLT S/L (Check CPL #s)
3804597	P14022	ENGINE BRAKE BASE KIT 94N14-450B 12 VOLT S/L (Check CPL #s)
3804603	P14014	ENGINE BRAKE BASE KIT N14PLUS-455B 12 VOLT S/L (Check CPL #s)

Replacement Engine Brake Tune-up Kits & Gaskets		
3871418	P40024	TUNE-UP KIT (25B,30,30E,400,400H, 425A)
3871481	P16846	GASKET-EACH-455B/C N-14 P-14
3871537	P40026	TUNE-UP KIT CUMMINS 88 (JAKE 425A)
3871568	P20923	TUNE-UP KIT
3871580	P19848	TUNE-UP KIT CUMMINS L10/M11
3871657	P20923	TUNE-UP KIT 455B/C N14 PLUS
4025000	P13294 (need 3)	GASKET - CUMMINS
4025002	P14848 (need 3)	GASKET P38 METAL

Replacement Engine Brake Solenoids		
3871463	P04205	SOLENOID 12 VOLT
3871464	P04205-24	SOLENOID 24 VOLT S/L
3871465	P04206	SOLENOID 24 VOLT D/L
3871636	P04205-24	SOLENOID 24 VOLT S/L
3871637	P04206	SOLENOID 24 VOLT D/L
3871707	P04205	SOLENOID 12 VOLT
3871707	P04206	SOLENOID 24 VOLT D/L
3871708	P04205-24	SOLENOID 24 VOLT S/L
3871709	P04206	SOLENOID 24 VOLT D/L
3871711	P39015	SOLENOID 12 VOLT D/L
4024760	P04206	SOLENOID 24 VOLT D/L

Complete Parts List		
199225	P02969	SCREW
205643	P19295	CAPSCREW N-14
217788	P02514	STUD WASHER
3063531	P02856	MOUNTING STUD
3063533	P01234	STUD SPACER
3063546	P01199	STUD ASSEMBLY
3063548	P02856	STUD ASSEMBLY
3073972	P34655	PLUG CONNECTOR
3251588	P10180	SEAL - CUMMINS
3412330	P26170	CAP, CONTROL VALVE - 440B/C

CUMMINS PART #	PACBRAKE PART #	DESCRIPTION
Complete Parts List cont'		
3804594	P14018 (Check CPL #s)	ENGINE BRAKE BASE KIT 94N14-450A 12 VOLT S/L
3804597	P14022 (Check CPL #s)	ENGINE BRAKE BASE KIT 94N14-450B 12 VOLT S/L
3804603	P14014 (Check CPL #s)	ENGINE BRAKE BASE KIT N14PLUS-455B 12 VOLT S/L
3871201	P01012	CONTROL VALVE SPRING
3871203	P01017	MASTER PISTON - 7/8
3871205	P01022	SLAVE PISTON SPRING
3871206	P01023	RETAINING RING
3871207	P01026	JAM NUT-HEX 3/8 NF
3871208	P01030	SPRING RETAINER
3871209	P01031	3/8-24 X 3/4 SOC SET FLPT ALLOY
3871210	P01033	CAPSCREW
3871211	P01040	TERMINAL
3871217	P01082	CENTER SOL. SEAL VITON
3871218	P01083	LOWER SOL SEAL VITON
3871220	P01094	NUT - 1/2" NC, HEX
3871222	P01178	SWITCH BRACKET
3871224	P01180	SWITCH COVER
3871225	P01181	NUT-HEX
3871228	P01500	CONTROL VALVE
3871236	P01244	SELF-TAPPING SCREW
3871238	P01265	SCREW
3871243	P01304	TOGGLE SWITCH - ON/OFF
3871244	P01305	PLATE - OFF
3871248	P01492	CAPSCREW-HEX
3871249	P01512	TERMINAL
3871250	P01518	INNER CONTROL VALVE SPRING
3871251	P01519	OUTER CONTROL VALVE SPRING
3871252	P01531	CLAMP
3871253	P01534	DIODE
3871255	P01538	WASHER
3871257	P01558	6-32 x 1/4 RD SL MACHINE SCREW
3871258	P01559	LOCK WASHER
3871260	P01722	SCREW- SOCKET HEAD
3871264	P02390	SOLENOID HARNESS - CUMMINS
3871265	P60125	SWITCH PLATE
3871266	P02610P (need 3)	TEAR-OFF GASKET
3871267	P02856	STUD ASSEMBLY
3871268	P02957	TOGGLE SWITCH
3871303	P03586	SWITCH-HI/LOW/OFF
3871318	P03777	PLATE-HI/LOW/OFF
3871321	P03790	1/4 -20 x 3/8 BHSC NYLON PATCH
3871330	P04089	MASTER PISTON
3871331	P04136	CONTROL VALVE COVER

PRXB/EXHAUST BRAKES

LOADLEASH ENGINE BRAKES

PACBRAKE ENGINE BRAKES

CUMMINS REPLACEMENT PARTS CROSSOVER LIST

CUMMINS PART #	PACBRAKE PART #	DESCRIPTION
Complete Parts List cont'		
3871336	P11433	SPRING
3871338	P06796	BRACKET, THROTTLE SWITCH
3871344	P07447	MASTER PISTON SPRING
3871345	P39100	INNER CONTROL VALVE SPRING
3871347	P07623	SLAVE PISTON-P30E
3871348	P07671	FUEL ASSEMBLY SWITCH
3871351	P09353	PAFLASH JAMNUT
3871359	P09916	SET SCREW
3871364	P11251	COLLAR, CONTROL VALVE
3871365	P11252	COVER, CONTROL VALVE
3871366	P11253	OUTER CONTROL VALVE SPRING
3871372	P11283	CONTROL VALVE
3871373	P11284	SNAP RING, CONTROL VALVE
3871379	P09355	HEX NUT
3871383	P11544	BUTTON HEAD SCREW
3871388	P11720	SPRING
3871390	P11823	SPRING, CONTROL VALVE - INNER
3871391	P11841	MASTER PISTON SPRING
3871393	P11930	CONTROL VALVE
3871395	P12246T	WOBBLE SWITCH
3871397	P12261T	WOBBLE SWITCH & BRACKET GROUP
3871399	P12269	MOUNTING BRACKET
3871404	P13155	O-RING
3871418	P40024	TUNE-UP KIT (25B, 30, 30E, 400, 400H, 425A)
3871423	P14035	ENGINE CONTROL GROUP (CUMMINS)
3871438	P14619	HARNESS
3871444	P38025	OIL SUPPLY SCREW
3871445	P14928	COVER, CONTROL VALVE
3871446	P15561	SNAP RING
3871463	P04205	SOLENOID 12 VOLT
3871464	P04205-24	SOLENOID 24 VOLT S/L
3871465	P04206	SOLENOID 24 VOLT D/L
3871478	P16810	MASTER PISTON SPRING
3871481	P16846	GASKET - EACH - 455B/C N-14 P-14
3871486	P60045	RELAY
3871518	P17412	SPRING, MASTER PISTON - FLAT
3871530	P02299	TERMINAL ASSEMBLY

CUMMINS PART #	PACBRAKE PART #	DESCRIPTION
Complete Parts List cont'		
3871538	P38011	TUNE-UP KIT CUMMINS 88 (JAKE 430, TEC430A)
3871548	P18187	WIRE HARNESS
3871549	P01218	SWITCH
3871561	P18792	SPRING, MASTER PISTON - FLAT
3871568	P20923	TUNE-UP KIT
3871580	P19848	TUNE-UP KIT CUMMINS L10/M11
3871594	P02970	TOGGLE SWITCH ASSEMBLY
3871612	P38045	INJECTOR SCREW
3871634	P21296	HARNESS
3871636	P04205-24	SOLENOID 24 VOLT S/L
3871637	P04206	SOLENOID 24 VOLT D/L
3871638	P01081	UPPER SEAL RING
3871642	P19103	SLAVE PISTON
3871643	P19104	OUTER SLAVE SPRING (455A/B)
3871644	P19105	INNER SLAVE SPRING (455A/B)
3871645	P19139	SLAVE PISTON RETAINER (455A/B)
3871648	P01314	ON/OFF TOGGLE SWITCH
3871652	P20800	HARNESS (450A/B/455B/C)
3871657	P20923	TUNE-UP KIT 455B/C N14 PLUS
3871663	P17593	RELAY BASE ASSEMBLY
3871680	P01955	SWITCH HARNESS
3871700	P02183	ACTUATING ROD - P01495 CLUTCH SW
3871702	P02411	O-RING
3871707	P04206	SOLENOID 24 VOLT D/L
3871708	P04205-24	SOLENOID 24 VOLT S/L
3871709	P04206	SOLENOID 24 VOLT D/L
3871711	P39015	SOLENOID 12 VOLT D/L
4024760	P04206	SOLENOID 24 VOLT D/L
4025000	P13294 (need 3)	GASKET - CUMMINS
4025002	P14848 (need 3)	GASKET - P38 METAL

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DETROIT DIESEL REPLACEMENT PARTS CROSSOVER LIST

DETROIT PART #	PACBRAKE PART #	DESCRIPTION
Replacement Engine Brake Tune-up Kits		
017506	P69201	DDC 6V 71/92TUNE-UP KIT
017507	P89201	DDC 8V 71/92TUNE-UP KIT
019875	P19875	TUNE-UP KIT 760
020530	P20530	750TUNE-UP KIT
020531	P20531	TUNE-UP KIT 760A/765/765A

DETROIT PART #	PACBRAKE PART #	DESCRIPTION
Replacement Engine Brake Solenoids		
13472	P04205-24	SOLENOID 24 VOLT S/L
16440	P04205	SOLENOID 12 VOLT
16441	P04205-24	SOLENOID 24 VOLT S/L
20236	P04205-24	SOLENOID 24 VOLT S/L
20239	P04205	SOLENOID 12 VOLT
024612	P04205	SOLENOID 12 VOLT
024613	P04205	SOLENOID 12 VOLT
024616	P04205-24	SOLENOID 24 VOLT S/L
024619	P04205-24	SOLENOID 24 VOLT S/L
1024612	P04205	SOLENOID 12 VOLT
1024619	P04205-24	SOLENOID 24 VOLT S/L

DETROIT PART #	PACBRAKE PART #	DESCRIPTION
Complete Parts List		
001012	P01012	CONTROL VALVE SPRING
001023	P01023	RETAINING RING
001026	P01026	JAM NUT-HEX 3/8 NF
001031	P01031	3/8-24 x 3/4 SOC SET FLPT ALLOY
001040	P01040	TERMINAL
001082	P01082	CENTER SOL SEAL VITON
001083	P01083	LOWER SOL SEAL VITON
001218	P01218	SWITCH
001265	P01265	SCREW
001282	P01282	SCREEN, SOLENOID
001283	P01283	RETAINER, SOLENOID
001287	P01287	OIL CONNECTOR
001288	P01288	SLAVE PISTON SPRING
001304	P01304	TOGGLE SWITCH - ON/OFF
001332	P01332	SEAL
001340	P01340	1/4 NFIN THIN WALL NUT PLATED
001341	P01341	SCREW-HEX
001492	P01492	CAPSCREW-HEX
001518	P01518	INNER CONTROL VALVE SPRING
001519	P01519	OUTER CONTROL VALVE SPRING
001521	P11930	CONTROL VALVE
001531	P01531	CLAMP
001534	P01534	DIODE
001538	P01538	WASHER
001558	P01558	6-32 x 1/4 RD SL MACHINE SCREW

DETROIT PART #	PACBRAKE PART #	DESCRIPTION
Complete Parts List cont'		
001559	P01559	LOCK WASHER
001722	P01722	SCREW-SOCKET HEAD
002017	P02017	O-RING
002299	P02299	TERMINAL ASSEMBLY
002390	P02390	SOLENOID HARNESS - CUMMINS
002744	P02744	SCREW SUPERSEDED TO P012144
002769	P14908	CLAMP
003571	P60150	CAB GROUP 760/765
003586	P03586	SWITCH - HI/LOW/OFF
003777	P03777	PLATE - HI/LOW/OFF
004653	P04653	SEAL BUSHING
004665	P04665	HARNESS
005383	P05383	HARNESS
005384	P05384	HARNESS
006833	P60014	CABLETIE
007500	P39100	INNER CONTROL VALVE SPRING
010843	P10843	SPRING, OUTER CONTROL VALVE
011395	P09355	HEX NUT
011426	P11426	BRIDGE ADJUSTING SCREW
011434	P11434	CONTROL VALVE SPRING, OUTER
011720	P11720	SPRING
011930	P11930	CONTROL VALVE
012246	P12246T	WOBBLE SWITCH
012261	P12261T	WOBBLE SWITCH & BRACKET GROUP
012269	P12269	MOUNTING BRACKET
012981	P12981	MASTER PISTON
012983	P12983	ACCUMULATOR PISTON
012990	P12990	SPRING, ACCUMULATOR
012991	P12991	RETAINING RING
012996	P12996	BUTTON HEAD SCREW (760 ONLY)
013472	P04205-24	SOLENOID 24 VOLT S/L
014908	P14908	CLAMP
016440	P04205	SOLENOID 12 VOLT
016441	P04250-24	SOLENOID 24 VOLT S/L
016505	P01030	WASHER ACCUMULATOR
016535	P16535	SPRING, MASTER PISTON-FLAT
016557	P16557	COLLAR, CONTROL VALVE
016732	P05383	HARNESS
016733	P05384	HARNESS
016766	P16766	HEX NUT
016771	P16771	BRIDGE
017048	P17048	SLAVE PISTON
017506	P69201	DDC 6V 71/92TUNE-UP KIT
017507	P89201	DDC 8V 71/92TUNE-UP KIT
017565	P17565	MASTER PISTON

DETROIT DIESEL REPLACEMENT PARTS CROSSOVER LIST

DETROIT PART #	PACBRAKE PART #	DESCRIPTION
Complete Parts List cont'		
017658	P17658	SPRING, MASTER PISTON
018188	P01218	SWITCH
019096	P50150	ENGINE CONTROL GROUP DDEC III AND IV
019504	P07500	SPRING
019576	P19576	SLAVE TORSION SPRING
019740	P19740	BUTTON HEAD SCREW
019741	P19741	WASHER
019875	P19875	TUNE-UP KIT 760
020218	P60155	ENGINE CONTROL GROUP DDEC III
020229	P01081	UPPER SEAL RING
020236	P04205-24	SOLENOID 24 VOLT S/L
020239	P04205	SOLENOID 12 VOLT
020382	P20382	POWER-LASH ASSEMBLY
020530	P20530	750 TUNE-UP KIT
020531	P20531	TUNE-UP KIT 760A/765/765A
021184	P60022	FLAT WASHER
024612	P04205	SOLENOID 12 VOLT
024613	P04205	SOLENOID 12 VOLT
024616	P04205-24	SOLENOID 24 VOLT S/L
024619	P04205-24	SOLENOID 24 VOLT S/L
029118	P80019	790/795/797 SPACERTUBE
1024612	P04205	SOLENOID 12 VOLT
1024619	P04205-24	SOLENOID 24 VOLT S/L

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MACK REPLACEMENT PARTS CROSSOVER LIST

MACK PART #	PACBRAKE PART #	DESCRIPTION
Replacement Engine Brake Tune-up Kits		
4559-18676	P18676	TUNE-UP KIT MACK 675
4559-18677	P18677	TUNE-UP KIT 680A
4559-18678	P18678	TUNE-UP KIT 680B

Replacement Engine Brake Solenoids		
4559-1024614	P04205	SOLENOID 12 VOLT
4559-16440	P04205	SOLENOID 12 VOLT
4559-24612	P04205	SOLENOID 12 VOLT
4559-24613	P04205	SOLENOID 12 VOLT

Complete Parts List		
4559-1023	P01023	RETAINING RING
4559-1024614	P04205	SOLENOID 12 VOLT
4559-1026	P01026	JAM NUT - HEX 3/8 NF
4559-1030	P01030	SPRING RETAINER
4559-1082	P01082	CENTER SOL. SEAL VITON
4559-1083	P01083	LOWER SOL SEAL VITON
4559-11283	P11283	CONTROL VALVE
4559-11434	P11434	CONTROL VALVE SPRING, OUTER
4559-11435	P11435	CONTROL VALVE SPRING, INNER
4559-1180	P01180	SWITCH COVER
4559-11930	P11930	CONTROL VALVE
4559-12246	P12246T	WOBBLE SWITCH
4559-12261	P12261T	WOBBLE SWITCH & BRACKET GROUP
4559-12269	P12269	MOUNTING BRACKET
4559-12757	P34650	CONTROL VALVE COVER
4559-1282	P01282	SCREEN, SOLENOID
4559-1283	P01283	RETAINER, SOLENOID
4559-12991	P12991	RETAINING RING
4559-13158	P13158	FLAT MASTER PISTON SPRING-CAT
4559-1492	P01492	CAPSCREW - HEX
4559-1512	P01512	TERMINAL

MACK PART #	PACBRAKE PART #	DESCRIPTION
Complete Parts List cont'		
4559-1521	P11930	CONTROL VALVE
4559-1531	P01531	CLAMP
4559-1534	P01534	DIODE
4559-1538	P01538	WASHER
4559-1558	P01558	6-32 x 1/4 RD SL MACHINE SCREW
4559-1559	P01559	LOCK WASHER
4559-16440	P04205	SOLENOID 12 VOLT
4559-1722	P01722	SCREW-SOCKET HEAD
4559-18188	P01218	SWITCH
4559-18676	P18676	TUNE-UP KIT MACK 675
4559-18677	P18677	TUNE-UP KIT 680A
4559-18678	P18678	TUNE-UP KIT 680B
4559-20229	P01081	UPPER SOL. SEAL VITON
4559-2030	P02030	FLAT SPRING
4559-2299	P02299	TERMINAL ASSEMBLY
4559-2411	P02411	O-RING
4559-24612	P04205	SOLENOID 12 VOLT
4559-24613	P04205	SOLENOID 12 VOLT
4559-2614	P02614	SWITCH BRACKET
4559-2615	P02615	ARM
4559-2744	P02744	SCREW
4559-3586	P03586	SWITCH - HI/LOW/OFF
4559-3777	P03777	PLATE - HI/LOW/OFF
4559-3790	P03790	1/4-20 x 3/8 BHSC NYLON PATCH
4559-6833	P60014	CABLETIE
4559-7500	P39100	INNER CONTROL VALVE SPRING

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