

Alliance All-Makes Heavy-Duty Belt Tensioners

Backed by a one-year, unlimited mileage warranty, Alliance Heavy-Duty Tensioners offer unsurpassed damping for optimum belt tension, consistent drive alignment, and long belt life.



TOP SELLERS	
Part Number	Application
GT/38501	Detroit Diesel Series 60 Engines
GT/38503	Detroit Diesel Series 60 Engines
GT/38505	Caterpillar C10, C12, Cummins M11 ISM
GT/38508	Caterpillar 3406, C15, C16
GT/38511	Caterpillar 3126, Int'l/Nav 530, DT408, DT466, DTI466
GT/38513	Cummins 5.9 L ISB, 8.3 L ISC
GT/38517	Ford F-Series, F-8000, FT-900

WHEN YOU NEED MORE INFORMATION...	
The literature listed below is available from your local dealer.	
Catalog Number	Description
ALL016	Alliance All Makes Belts and Hoses Catalog
FLC/PSM-F-333	Guide to Heavy Duty Belt Tensioner Failure, 11"x17" Poster
FLC/PSM-F-330	Blue Stripe Coolant Hose, 8"x10" Poster
FLC/PSM-F-331	Alliance Belt Products for School & Transit Buses, 11"x17" Poster
FLC/PSM-F-329	Alliance All-Makes Belts "Drive-Flex" Micro-V Belts, 8"x10" Poster
FLC/PSM-F-332	Heavy Duty Tensioner Interchange, 11"x17" Poster

GENERAL PRODUCT INFORMATION
More than 300,000 trucks on the road use automatic belt tensioners. By 2003, that number is going to approach one million vehicles. Tensioners, like any other part, don't last forever, so installers will be replacing more and more of them.

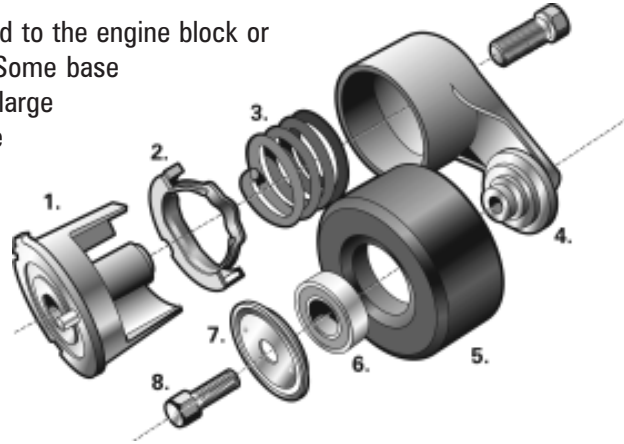
CROSS REFERENCE GUIDE		
Alliance Part Number	OE Part Number	Dayco Part Number
GT/38501	23520317	89419
GT/38503	05-17808-000	N/A
GT/38505	1481974	89404
GT/38508	1382514	89410
GT/38511	1352151/1687819C91	89411
GT/38513	3934823	89414
GT/38517	3966197	N/A

FEATURES & BENEFITS
<ul style="list-style-type: none"> • Provides maximum coverage with minimal inventory • Designed to exacting OE standards and specifications • Computer-designed components—minimum unit weight but maximum strength and durability • Labyrinth Seal—prevents contamination of internal parts • One-year, unlimited mile warranty

HOW DOES A TENSIONER WORK?

The tensioner is a spring-loaded device consisting of eight basic parts:

1. **Base:** stationary part of the tensioner that is bolted to the engine block or other accessories. Each base design is different. Some base components may be very complicated, including large sections of bracketry or seals that form part of the cooling system.
2. **Bushing or Damping Shoe:** a plastic ring that dampens or smooths system vibration.
3. **Spring:** preloaded at the factory, it provides the force to tension the belt.
4. **Arm:** connects the spring to the tensioner pulley. It is usually an aluminum casing.
5. **Pulleys:** are nylon or steel and may be flat, grooved or flat with flanges. Pulley surfaces should be inspected regularly for damage or wear. Nylon pulleys are most vulnerable to wear.
6. **Bearings:** can fail if they lose lubrication. Do not attempt to put a new bearing in an old pulley. Replacement pulleys with heavy-duty bearings are available.
7. **Dust Shield:** protects the bearing from the elements.
8. **Bolt:** connects the pulley to the arm.



COMMONLY USED BELTS FOR TENSIONER APPLICATIONS

Tensioner Part Number	Alliance Belt Part Number
GT/38501	GT/4080570DF, GT/4080562DF, GT/4080580DF, GT/4100580DF
GT/38503	GT/4080570DF, GT/4080562DF, GT/4080580DF, GT/4100580DF
GT/38505	GT/4080855DF, GT/4060529DF, GT/4060521DF, GT/4080922DF, GT/4060521DF, GT/4060488DF, GT/4080754DF, GT/4080779DF, GT/4080922DF
GT/38508	GT/4080952DF, GT/4060546DF, GT/4060595DF
GT/38511	GT/4080695DF, GT/4080701DF, GT/4080715DF, GT/4080754DF, GT/4080779DF

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

WARRANTY

Alliance Parts are backed by a one-year unlimited mile warranty, with coverage available throughout North America.

Alliance Exhaust Clamps



Truly beautifully designed, the Alliance exhaust clamps are built to last! They are made for fast, easy and accurate installation and to prevent damage or distortion to pipe or flex tubing.

GENERAL PRODUCT INFORMATION

Alliance exhaust clamps are available in aluminized steel, 304 bright stainless steel and polished 304 bright stainless steel. Hardware is zinc plated with 7/16" grade 8 bolt and nut.

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

THE EXHAUST CLAMP PRODUCT LINE INCLUDES

- Flat band, EasySeal® bright stainless clamp.
- Pre-formed lap, TorcTite® stainless steel band clamp.
- Pre-formed lap, TorcTite aluminized steel band clamp.
- Pre-formed lap, TorcTite polished bright stainless band clamp.
- Pre-formed lap, TorcTite with gasket – stainless steel band clamp.
- Pre-formed lap, TorcTite with gasket – aluminized steel band clamp.
- Available Sizes: 2", 2.25", 2.5", 2.75", 3", 3.5", 4", 4.5", 5", and 6".

POPULAR PART NUMBERS

Part Number	Description	Size
ABP/N35-50PLA	TorcTite pre-formed lap aluminized steel band clamp	5.0"
ABP/N35-40PLA	TorcTite pre-formed lap aluminized steel band clamp	4.0"
ABP/N35-35PLA	TorcTite pre-formed lap aluminized steel band clamp	3.5"
ABP/N35-50PLS	TorcTite pre-formed lap stainless steel band clamp	5.0"
ABP/N35-40PLS	TorcTite pre-formed lap stainless steel band clamp	4.0"
ABP/N35-35PLS	TorcTite pre-formed lap stainless steel band clamp	3.5"
ABP/N35-50PLB	TorcTite pre-formed lap polished bright stainless band clamp	5.0"
ABP/N35-40PLB	TorcTite pre-formed lap polished bright stainless band clamp	4.0"
ABP/N35-50PLAG	TorcTite pre-formed lap with gasket – aluminized steel band clamp	5.0"
ABP/N35-40PLAG	TorcTite pre-formed lap with gasket – aluminized steel band clamp	4.0"
ABP/N35-50PLSG	TorcTite pre-formed lap with Gasket – stainless steel band clamp	5.0"
ABP/N35-40PLSG	TorcTite pre-formed lap with gasket – stainless steel band clamp	4.0"
ABP/N35-50EST	EasySeal bright stainless flat band clamp	5.0"
ABP/N35-40EST	EasySeal bright stainless flat band clamp	4.0"

FEATURES & BENEFITS

- Manufactured by Torca, the original inventor of the Reaction Block design, with pre-attached hardware for ease of assembly and guaranteed performance.
- Robust engineering to work on the full range of industry pipe tolerances – exhaust pipes, flex, muffler inlets and outlets.
- Tested and proven to be durable and reliable.
- Full product range is available in all industry required sizes.
- Serviceable pipes can be easily separated at required service intervals. Alliance clamps do not pinch or damage pipe or flex.
- Alliance exhaust clamps prevent damaging distortion to pipe or flex. Bands are designed for maximum stretch providing tight take-up on pipe/pipe or pipe/flex applications.

RELATED BUYS

- Mufflers
- Stainless Steel Flex Tubing
- Chrome-Plated or Aluminized Straight, Mitred, and Curved Stacks
- Stack Caps
- Slitter Tee Adapters
- Straight Connectors
- Elbows
- Tail Pipes

WARRANTY

Alliance Parts are backed by a one-year unlimited mile warranty, with coverage available throughout North America.

PRODUCT HIGHLIGHTS

TorcTite® – The pre-formed, wide band clamp with pre-attached hardware. Available in aluminized steel, bright stainless steel, or polished bright stainless steel, the pre-formed step in the band provides equal distribution of clamping forces on both connecting pipes, producing a stronger and better 360-degree seal. The clamp is easy to locate on pipe connections with fewer loose parts, resulting in a faster and more accurate, reliable installation. The TorcTite clamp provides more clamping force and a better seal than competitor wide band clamps because of its unique reaction block design. The TorcTite clamps are now available with a gasket to decrease leak rates by another 50% to 70% of previous levels.



EasySeal® – The flat, wide band exhaust clamp with pre-attached hardware. Made of 304 bright stainless steel, the universal aftermarket wide band clamp may be used on lap or butt joint applications. The product blends with chrome parts, and provides excellent heat and corrosive resistant properties. The EasySeal clamp provides more clamping force and a better seal than competitor wide band clamps because of its unique reaction block design.



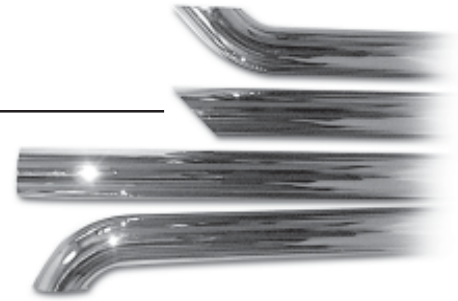
FOR ADDITIONAL INFORMATION...

The following catalog is available to you at your local dealership.

Catalog Number	Description
FLC/PSM230	Alliance Exhaust Catalog

Alliance Exhaust Parts

High quality OEM exhaust products at an affordable price.



GENERAL PRODUCT INFORMATION

Bringing you high quality chrome-plated and aluminized stack pipes, elbows and connectors at extremely competitive prices, the Alliance Exhaust product line is a must have!

Exhaust elbows, pipes and stacks—5" or 4" diameter; chrome-plated or aluminized; curved or straight—are all available.

Chrome-plated products not only enhance the appearance of the vehicle, but also guard against corrosion. They are a longer lasting alternative to plain steel parts.

PART NUMBER FORMAT

Legend

CS1	Curved Stack, I.D.
CS2	Curved Stack, O.D.
MS2	Mitered Stack, O.D.
S2	Straight Stack, O.D., O.D.
EL90	90-Degree Elbow
EL45	45-Degree Elbow
EL67	67-Degree Elbow

"C" at end of part number means chrome-plated.

"A" at end of part number means aluminized.

Example

"ABP/N49-50CS160C"

ABP	= Alliance Brand Products
N49	= Engine and Exhaust
50	= 5" Diameter
CS1	= Curved Stack, I.D.
60	= 60" Length
C	= Chrome-Plated

POPULAR PART NUMBERS

Part Number	Description
ABP/N49-50CS224A	4" Curved Stack, Aluminized, O.D., 24" Long
ABP/N49-40CS248C	4" Curved Stack, Chrome Plated, O.D., 48" Long
ABP/N49-40CS260C	4" Curved Stack, Chrome Plated, O.D., 60" Long
ABP/N49-50CS248A	5" Curved Stack, Aluminized, O.D., 48" Long
ABP/N49-50CS136C	5" Curved Stack, Chrome Plated, I.D., 36" Long
ABP/N49-50CS148C	5" Curved Stack, Chrome Plated, I.D., 48" Long
ABP/N49-50CS160C	5" Curved Stack, Chrome Plated, I.D., 60" Long
ABP/N49-50CS172C	5" Curved Stack, Chrome Plated, I.D., 72" Long
ABP/N49-50CS184C	5" Curved Stack, Chrome Plated, I.D., 84" Long
ABP/N49-50CS196C	5" Curved Stack, Chrome Plated, I.D., 96" Long
ABP/N49-50CS218C	5" Curved Stack, Chrome Plated, O.D., 18" Long
ABP/N49-50CS224C	5" Curved Stack, Chrome Plated, O.D., 24" Long
ABP/N49-50CS236C	5" Curved Stack, Chrome Plated, O.D., 36"

THE EXHAUST PARTS PRODUCT LINE INCLUDES

- Straight Stacks, O.D. sized, chrome-plated (4" and 5" outer diameter. 18", 24", 36", 48", 60" and 72" lengths)
- Curved Stacks, O.D. sized, chrome-plated or aluminized
- Curved Stacks, I.D. slotted with flared bottoms, chrome-plated or aluminized
- Mitered Stacks, O.D. sized, chrome-plated or aluminized, West Coast style (4" and 5" outer diameter. 36", 48", 60", 72", 84" and 96" lengths)
- Straight Connectors, manufactured from 16-gauge aluminized steel and crafted for a precision fit
- Slitter Tee Adapters
- Tail Pipes, O.D./I.D.
- 45-Degree Elbows – O.D./I.D.
- 45-Degree Elbows – both ends O.D.
- 67-Degree Elbows – both ends O.D.
- 90-Degree Elbows, O.D./I.D. slotted (4" and 5" connection sizes)
- 90-Degree Elbows – both ends O.D. (4" and 5" outside diameter)
- 90 Degree Short Radius Elbows – both ends O.D. (4" and 5" outside diameter)

WARRANTY

Alliance Parts are backed by a one-year unlimited mile warranty, with coverage available throughout North America.

RELATED BUYS

- Mufflers
- Exhaust Clamps
- Rain Caps
- Alliance Exhaust Elbows
- Alliance Stainless Steel and Alliance Chrome Parts

FEATURES & BENEFITS

- Custom designed to fit all-makes vehicles
- High-shine chrome-plated or aluminized finish
- Light weight and durable
- Precision engineering
- Protects against corrosion
- Priced to meet your needs
- Modernized manufacturing
- Meets or exceeds OEM standards

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

FOR ADDITIONAL INFORMATION...

The following catalog is available to you at your local dealer.

Catalog Number	Description
FLC/PSM230	Alliance Exhaust Catalog

Alliance Exhaust Premium Flexible Hose



Galvanized, stainless and aluminized steel flexible hoses, at the prices you want and the sizes you need!

GENERAL PRODUCT INFORMATION

The new, long-lasting Alliance Flexible Hoses extend the service life of the flexible exhaust connector. The flexible metal truck exhaust hose, connected between the manifold and rigid exhaust pipe, serves to protect the exhaust system from vibration damage and other potential damaging elements in today's hard working trucks, tractors and construction equipment. The harmful effects of water, heat, salt, corrosive exhaust emissions, shock, engine torque and other road hazards are drastically minimized.

Hoses are available in standard lengths of 10 ft. and 25 ft. or pre-cut lengths ready for quick and easy installation. Pre-cut hoses have prepared ends to eliminate end flare and burrs.

POPULAR PART NUMBERS

Part Number	Description	Length	Dia.	UOM	Part Number	Description	Length	Dia.	UOM
ABP/N49-35FT10A	Aluminized Steel Flex Hose	10"	3.5"	Each	ABP/N49-5FT30G	Galvanized Flex Hose	30"	5.0"	Each
ABP/N49-35FT25A	Aluminized Flex Hose	25"	3.5"	Each	ABP/N49-5FT36G	Galvanized Flex Hose	36"	5.0"	Each
ABP/N49-3FT10A	Aluminized Flex Hose	10"	3.0"	Each	ABP/N49-6FT10G	Galvanized Flex Hose	10'	6.0"	Feet
ABP/N49-4FT10A	Aluminized Flex Hose	10'	4.0"	Feet	ABP/N49-6FT25G	Galvanized Flex Hose	25'	6.0"	Feet
ABP/N49-4FT12A	Aluminized Flex Hose	12"	4.0"	Each	ABP/N49-4FT10S	Stainless Flex Hose	10"	4.0"	Feet
ABP/N49-4FT18A	Aluminized Flex Hose	18"	4.0"	Each	ABP/N49-4FT12S	Stainless Flex Hose	12"	4.0"	Each
ABP/N49-4FT20A	Aluminized Flex Hose	20"	4.0"	Each	ABP/N49-4FT18S	Stainless Flex Hose	18"	4.0"	Each
ABP/N49-4FT24A	Aluminized Flex Hose	24"	4.0"	Each	ABP/N49-4FT24S	Stainless Steel Flex Hose	24"	4.0"	Each
ABP/N49-4FT25A	Aluminized Flex Hose	25'	4.0"	Feet	ABP/N49-4FT25S	Stainless Flex Hose	25'	4.0"	Feet
ABP/N49-4FT30A	Aluminized Flex Hose	30"	4.0"	Each	ABP/N49-4FT30S	Stainless Flex Hose	30"	4.0"	Each
ABP/N49-4FT36A	Aluminized Flex Hose	36"	4.0"	Each	ABP/N49-4FT36S	Stainless Flex Hose	36"	4.0"	Each
ABP/N49-5FT10A	Aluminized Flex Hose	10'	5.0"	Feet	ABP/N49-5FT10S	Stainless Flex Hose	10'	5.0"	Feet
ABP/N49-5FT12A	Aluminized Flex Hose	12"	5.0"	Each	ABP/N49-5FT12S	Stainless Flex Hose	12"	5.0"	Each
ABP/N49-5FT18A	Aluminized Flex Hose	18"	5.0"	Each	ABP/N49-5FT18S	Stainless Flex Hose	18"	5.0"	Each
ABP/N49-5FT20A	Aluminized Flex Hose	20"	5.0"	Each	ABP/N49-5FT24S	Stainless Flex Hose	24"	5.0"	Each
ABP/N49-5FT24A	Aluminized Flex Hose	24"	5.0"	Each	ABP/N49-5FT25S	Stainless Flex Hose	25'	5.0"	Feet
ABP/N49-5FT25A	Aluminized Flex Hose	25'	5.0"	Feet	ABP/N49-5FT30S	Stainless Flex Hose	30'	5.0"	Each
ABP/N49-5FT30A	Aluminized Flex Hose	30"	5.0"	Each	ABP/N49-5FT36S	Stainless Flex Hose	36"	5.0"	Each
ABP/N49-5FT36A	Aluminized Flex Hose	36"	5.0"	Each	ABP/N49-6FT10S	Stainless Flex Hose	10'	6.0"	Feet
ABP/N49-6FT10A	Aluminized Flex Hose	10'	6.0"	Feet	ABP/N49-6FT25S	Stainless Flex Hose	25'	6.0"	Feet
ABP/N49-6FT25A	Aluminized Flex Hose	25'	6.0"	Feet	ABP/N49-30FT1400S	Stainless Flex Hose, 321SS w/302SS Packing, Blue Bird.	14"	3.0"	Each
ABP/N49-4FT10G	Galvanized Steel Flex Hose	10'	4.0"	Feet					
ABP/N49-4FT12G	Galvanized Flex Hose	12"	4.0"	Each	ABP/N49-35FT1161S	Stainless Flex Hose. With metric couplings.	11.61"	3.5"	Each
ABP/N49-4FT18G	Galvanized Flex Hose	18"	4.0"	Each					
ABP/N49-4FT24G	Galvanized Flex Hose	24"	4.0"	Each	ABP/N49-40FT1200S	Stainless Flex Hose. With metric couplings.	12"	4.0"	Each
ABP/N49-4FT25G	Galvanized Flex Hose	25'	4.0"	Feet					
ABP/N49-4FT30G	Galvanized Flex Hose	30"	4.0"	Each	ABP/N49-45FT1300S	Stainless Flex Hose. With metric couplings.	13"	4.5"	Each
ABP/N49-4FT36G	Galvanized Flex Hose	36"	4.0"	Each					
ABP/N49-5FT10G	Galvanized Flex Hose	10'	5.0"	Feet	ABP/N49-45FT1693S	Stainless Flex Hose. With metric couplings.	16.93"	4.5"	Each
ABP/N49-5FT12G	Galvanized Flex Hose	12"	5.0"	Each					
ABP/N49-5FT18G	Galvanized Flex Hose	18"	5.0"	Each	ABP/N49-45FT8980S	Stainless Flex Hose. With metric couplings.	8.98"	4.5"	Each
ABP/N49-5FT24G	Galvanized Flex Hose	24"	5.0"	Each					
ABP/N49-5FT25G	Galvanized Flex Hose	25'	5.0"	Feet					

THE EXHAUST FLEXIBLE HOSE PRODUCT LINE INCLUDES

- Stainless Steel Flexible Tubing
- Galvanized Flexible Hose
- Aluminized Flexible Hose
- Offered in 3.5", 4", 4.5" and 5" Diameters
- Standard Cut Lengths of 10 ft. and 25 ft.
- Pre-cut Lengths are Offered in 12", 18", 24", 36" and 48"

FEATURES & BENEFITS

- Manufactured to Exceed OEM Specifications
- Lightweight and Durable
- Priced to Meet Your Needs

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

WARRANTY

Alliance Parts are backed by a one-year unlimited mile warranty, with coverage available throughout North America.

FOR ADDITIONAL INFORMATION...

The following catalog is available to you at your local dealership.

Catalog Number	Description
FLC/PSM230	Alliance Exhaust Catalog

RELATED BUYS

- Mufflers
- Exhaust Clamps
- Chrome Plated or Aluminized Straight, Mitered, Curved Stacks
- Stack Caps
- Slitter Tee Adapters
- Straight connectors
- Elbows
- Tail Pipes

Alliance Filtration

Meeting the most rigorous engines specifications and passing the industry's highest standardized tests, Alliance offers the top filter applications at affordable prices.



GENERAL PRODUCT INFORMATION

Alliance high-quality filters ensure that your vehicle's vital systems and components are protected by removing contaminants from the fuel, coolant and oil. Also, Alliance quality air filters trap 99.9% of the damaging air born particulates, keeping the engine's combustion chambers clean allowing for a powerful, consistent burn. These advantages combine to provide the torque and horsepower you need to carry on with your day, every day!

ALLIANCE FILTRATION QUALITY

Alliance filters are designed and manufactured by a global leader in filtration technology at QS-9000 and ISO 9001 certified and ISO 14001 facilities in collaboration with the world's No. 1 truck manufacturer, Freightliner LLC.

Filters are:

- Bench engine tested
- Climate test chambers tested
- Anechoic chambers tested
- Burst pressure tested
- Pressure pulsation tested
- CAE analysis tested
- Multi-functional tested for oil mist separator systems

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

THE ALLIANCE FILTRATION LINE INCLUDES

The top selling All-Makes Air, Lube, Fuel, Hydraulic, and Water filters in the trucking industry.

For a complete cross reference list, see your dealer or visit www.alliancefilters.com.

FEATURES & BENEFITS

Alliance filters:

- Are effective in all kinds of operating environments, protecting the engine, delivering longer filter life and giving you the confidence that comes with using product from an industry leader.
- Include advance engineered fibers in the filter media providing strength, durability and filtration properties that exceed the performance of our competition.
- Are designed to prolong engine and equipment life, thus increasing engine protection and reducing operating costs.
- Are high capacity and high efficiency filters, which effectively remove engine damaging contaminants.
- Meet and or exceed OEM engine performance specifications.
- Are supported by the number one truck manufacturer in the world.
- Are affordable.
- Offer nationwide warranty.

RELATED BUYS

- Oil
- Air intakes and accessories
- Coolant
- Cabin filters

POPULAR PART NUMBERS		
Part Numbers	Description	Applications
Lube Filters		
ABP/N10G-LF3000	Lube Filter	Cummins Engines (87-01)
ABP/N10G-LF3620	Lube Filter	Detroit Diesel Series 50 & 60 Diesel Engines
ABP/N10G-LF691A	Lube Filter	Caterpillar Engines (74-on) (For High Efficiency Glass Media Type Use 51792XE)
ABP/N10G-LF9001	Lube Filter	Cummins ISX, ISM Engine
ABP/N10G-LF9000	Lube Filter	Cummins Engines
ABP/N10G-LF9620	Lube Filter	Detroit Diesel Engines
ABP/N10G-LF667	Lube Filter	Caterpillar Engines
Air Filters		
ABP/N10G-AF25139M	Air Filter	Volvo/White Truck Model FE64, WG42, WG64, WG64T, WCA64T (Outer used w/46628)
ABP/N10G-AF1968M	Air Filter	Donaldson 2500 Series Element w/Lid Attached. Freightliner, GMC, Kenworth Heavy Duty Trucks
ABP/N10G-AF1743M	Air Filter	IHC CO 9670 Trucks w/Detroit Diesel Engines
Fuel Filters		
ABP/N10G-FS1000	Fuel/Water Separator	Cummins Celect Engines (95-97)
ABP/N10G-FS1212	Fuel/Water Separator	Cummins L10/N Series Eng. (92-96). Fuel/Water Separator w/Drain (12 Micron)
ABP/N10G-FF5206	Fuel Filter	Detroit Diesel Engines (75-on) Secondary (10 Micron)
ABP/N10G-FF5207	Fuel Filter	Detroit Diesel Engines (75-on) Primary (30 Micron)
Water Filters		
ABP/N10G-WF2071	Water Filter	Cooling System Filter/Conditioner
ABP/N10G-WF2051	Water Filter	Cooling System Filter/Conditioner
Hydraulic Filters		
ABP/N10G-HF6056	Hydraulic Filter	Cross, Gresen, Michigan Fluid Power Hydraulic Systems
ABP/N10G-HF6057	Hydraulic Filter	Cross, Gresen, Michigan Fluid Power Hydraulic Systems
ABP/N10G-HF6243	Hydraulic Filter	Allison Transmissions

FOR ADDITIONAL INFORMATION	
<p>The following catalog, brochures, and poster are available to you at your local dealership.</p>	
Catalog Number	Description
FLC/PSM-B-349	Alliance Filter Catalog
FLC/PSM-B-350	Alliance Lube Filter Brochure
FLC/PSM-B-351	Alliance Air Filter Brochure
FLC/PSM-B-352	Alliance Fuel Filter Brochure
FLC/PSM-B-366	Alliance Coolant Filter Brochure
FLC/PSM-P-353	Alliance Filtration Cross-Reference Poster
<p>To learn more about Alliance parts, please visit www.alliancebrandparts.com.</p>	

WARRANTY
<p>Alliance filters are subject to consumption during their normal service life and are routinely replaced during normal maintenance services, and therefore are not covered under aftermarket parts warranty.</p>

Alliance Fuel Filter/Water Separator Elements

Ultra-fine, high performance filtration is essential for eliminating the primary threats to injectors.



GENERAL PRODUCT INFORMATION

Water is an engine's #1 enemy. Water destroys engine components two ways: (1) by rust and (2) when it turns to steam. Because water is continually condensing inside your fuel tank, there's no way to keep it out, but you can take it out with an Alliance filter/water separator.

You can provide your customers with maximum engine efficiency and optimum protection with an Alliance filtration system.

TOP SELLERS

Part Number	Description	Application
ABP/N122-S3225P	Replacement Element	Business Class, School Bus, Cummins, ISB, ISC Engines, Mercedes-Benz MB90
ABP/N122-S3226FL01	Replacement Element, 10 Micron (Blue)	Freightliner and Sterling Trucks, Cummins, DDC Engines
ABP/N122-S3226FL02	Replacement Element, 30 Micron (Red)	Freightliner and Sterling Trucks, Caterpillar, Cummins, DDC Engines
RAI/R90P	Replacement Element	FLD, Century Class, Western Star, Racor 400 Series
RAI/2020PM-OR	Replacement Element	Racor, 1000FG30
RAI/RK21527	Heated Bowl Kit	For Alliance Fuel Filter/Water Separator Assemblies
RAI/RK30063	Non-Heated Bowl Kit	For Alliance Fuel Filter/Water Separator Assemblies
RAI/22628	Bowl Wrench	For Alliance Spin-On Filters

The Alliance Aquabloc Advantage protects engines against contaminated diesel fuel.

FEATURES & BENEFITS



- **Primer Pump**—conveniently primes the fuel system with clean dry diesel fuel.
- **Extended Life Filter Element**—tailored to Alliance and engine builders specifications.
- **Clear Collection Bowl**—allows operator to see water and contamination and service accordingly.
- **Self-Venting Drain**—allows drainage of water from assembly without loosening fuel lines.
- **12 volt 200 Watt Heater**—prewarms fuel in filter to avoid gelling and excess restriction in cold weather.

FREQUENTLY ASKED QUESTIONS

“I’ve been using plain spin-on filters without a bowl and have never experienced problems. Why do I need an added value water separator filter?”

“New engines require a higher degree of filtration than ever before to protect high performance fuel injector systems.”

FOR ADDITIONAL INFORMATION...

The following literature is available to you at your local dealer.

Catalog Number	Description
7429	Product Bulletin
7480F-CDROM	Parts & Service Catalog on CD

Did you know that every time you add fuel, you add millions of tiny contaminants...small enough to be invisible, but big enough to destroy injectors, pumps and profitability?

Environmental Note: Engineered polymer bowls are reusable. When it’s time for service, only the filter element is replaced—the see-thru bowl and drain are reused. The long life-cycle of the bowl saves money and reduces the environmental impact through disposal of less material.

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

RELATED BUYS

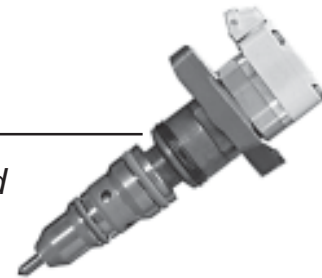
- **Additives for diesel fuel, gasoline engine coolant and oil**
- **Replacement elements for RVs, light and medium duty trucks**
- **Cleanable oil filter, bypass oil filters**
- **Filter wrench (available to assist with filter changes)**

WARRANTY

Alliance Parts are backed by a one-year unlimited mile warranty, with coverage available throughout North America.

Alliance Fuel Injectors

Manufactured by Alliant Power, the Alliance fuel injector offers Ford Powerstroke and Navistar DT466E/444E/I530E owners an easy choice—a brand new fuel injector for less money than the rebuilt models you're used to buying. Just compare!



PART NUMBERS/APPLICATIONS					
Alliance Part Number	Year	Application	Navistar Part Number	Ford Part Number	Alliant Power Injector Part Number (Chamber Gasket)
ABP/N01-AP63800AA	1994 - 1998	Ford F-Series (49 states)	1822801C98 ¹	F81Z9E527DRM	AP63800AA (Copper)
	1994 - 1996	Ford F-Series (California)	1822801C99 ¹	F4TZ9VE527AARM	
	1994 - 1996	Ford E-Series (All)	1821836C3 ²		
	1994 - 1996	Navistar T444E Up To Engine S/N 460194	1822800C95 ³ 1816187C3 ⁴		
ABP/N01-AP63801AB	1999	Ford F-Series (49 states) Vehicle Built Before 12/7/98	1824583C97 ¹ 1825125C1 ²	F81Z9E527BRM	AP63801AB ⁵ (Copper)
	1997 - 1999	Ford F-Series (California) Vehicle Built Before 12/7/98	1824582C94 ³ 1822803C1 ⁴		
	1997 - 1999	Navistar T444E Engine S/N 460195 to 843889			
ABP/N01-AP63802AC	1994 - 1996	Navistar T444E (High Output) 210HP (High Torque) & 230HP	1824456C96 ¹ 1824472C1 ² 1824455C94 ³ 1822890C1 ⁴	N/A	AP63802AC (Copper)
ABP/N01-AP63803AD	1999 - 2002	Ford F-Series & E-Series (All) Vehicle Built After 12/7/98	1831487C92 ¹ 1831487C93 ¹	F81Z9E527CRM	AP63803AD ⁵ (Copper)
	1999 - 2002	Navistar T444E Engine S/N 843990 & Up	1831489C1 ² 1831551C1 ³ 1831550C1 ⁴		
ABP/N01-AP63804AE	1999 - 2002	Ford F-Series S/N 661496 through 896812	N/A	F81Z9E527EARM	AP63804AE ⁵ (Copper)
		Ford E-Series S/N 661974 through 896812		XC3ZE527AARM	
ABP/N01-AP63805BA	1995-1997	Navistar DT466E 230HP (high torque) & 250HP Up To Engine S/N 1084867	1824928C94 ¹	N/A	AP63805BA (Copper)
			1824917C2 ²		
			1823736C94 ³		
			1819834C1 ⁴		
ABP/N01-AP63806BB	1995 - 1997	Navistar DT466E 175HP & 190HP Up To Engine S/N 1028710	1824929C94 ¹	N/A	AP63806BB (Copper)
			1824918C2 ²		
			1824742C91 ³		
			1824739C1 ⁴		
ABP/N01-AP63807BC	1995 - 1997	Navistar DT466E 195HP, 210HP, & 230HP Up To Engine S/N 1028710	1824930C94 ¹	N/A	AP63807BC (Copper)
			1824919C2 ²		
			1824743C91 ³		
			1824740C1 ⁴		
ABP/N01-AP63808BD	1995 - 1997	Navistar I530E 250HP, 275HP, & 300HP Up to Engine S/N 1084028	1824931C94 ¹	N/A	AP63808BD (Copper)
			1824920C2 ²		
			1824744C94 ³		
			1824741C2 ⁴		
ABP/N01-AP63809BE	1997 - 1999	Navistar DT466E 175HP to 210HP Engine S/N 1028711 to 1194038	1829839C93 ¹	N/A	AP63809BE (Copper)
			1829839C94 ¹		
			1829837C2 ²		
			1829838C94 ³		
			1829926C2 ⁴		

Chart continued on other side

1 ReNEWed Assembly P/N - includes seals - only part number available to Navistar dealers
 2 ReNEWed Injector P/N
 3 Production Assembly P/N - includes seals
 4 Production Injector P/N

5 Prime (Split Shot) Injector
 6 Long Lead Injector (stamped 'LL' or blue harness connector) per Ford Bulletins 00-10-1, 00-22-1, and 01-14-6 (used in number 8 cylinder as fix as failed only, to eliminate "cackle")

PART NUMBERS/APPLICATIONS (CONTINUED)					
Alliance Part Number	Year	Application	Navistar Part Number	Ford Part Number	Alliant Power Injector Part Number (Chamber Gasket)
ABP/N01-AP63810BF	1998 - 1999	Navistar I530E 250HP to 320HP Engine S/N 1084029 to 1134350	1830146C92 ¹	N/A	AP63810BF (Copper)
			1830146C93 ¹		
			1830148C2 ²		
			1830145C92 ³		
			1830147C2 ⁴		
ABP/N01-AP63812BJ	1997 - 1999	Navistar DT466E 250HP Engine S/N 1084868 to 1125227	1830156C91 ¹	N/A	BG Use AP63812BJ
			1830573C2 ²		
			1830155C91 ³		
			1830157C1 ⁴		
ABP/N01-AP63811DI	1999 & Up	Navistar DT466E 250HP Engine S/N 1125228 & Up	1830741C92 ¹	N/A	AP63811BI To Engine S/N 1194038 (Copper) S/N 1194039 & Up (Stainless Steel)
			1830741C93 ¹		
			1830562C2 ²		
			1830740C92 ³		
			1830560C2 ⁴		
ABP/N01-AP63812BJ	1999	Navistar I530E 250HP to 320HP Engine S/N 1134351 to 1194038	1830572C92 ¹	N/A	AP63812BJ (Copper)
			1830572C93 ¹		
			1830573C2 ²		
			1830570C92 ³		
			1830571C2 ⁴		
ABP/N01-AP63813BN	2000 & Up	Navistar I530E Engine S/N 1194039 & Up	1830692C91 ¹	N/A	AP63813BN (Stainless Steel)
			1830691C1 ²		
			1830693C1 ³		
			1830694C91 ⁴		
ABP/N01-AP63814BP	2000 & Up	Navistar DT466E Transit	1836251C91 ¹	N/A	AP63814BP (Stainless Steel)
			1836250C1 ²		
			1836252C91 ³		
			1836253C1 ⁴		

1 ReNEWed Assembly P/N - includes seals - only part number available to Navistar dealers

2 ReNEWed Injector P/N

3 Production Assembly P/N - includes seals

4 Production Injector P/N

5 Prime (Split Shot) Injector

6 Long Lead Injector (stamped 'LL' or blue harness connector) per Ford Bulletins 00-10-1, 00-22-1, and 01-14-6 (used in number 8 cylinder as fix as failed only, to eliminate "cackle")

FEATURES & BENEFITS

Alliance NEW Fuel Injectors feature:

- Genuine original equipment
- New product at a lower price

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit
www.freightliner.com.

CORES

Alliance injectors are new exchange parts with a core value.

WARRANTY

Alliance Parts are backed by a one-year unlimited mile warranty, with coverage available throughout North America.

Alliance Super Kits and Seal Kit

The Alliance Super Kits and Seal Kit are designed to handle the toughest applications at an affordable price. Includes premium friction liner, superior hub assembly, and protective thermal fuse. The Super Kits and Seal Kit will repair Horton "S and HT/S" fan clutches.



GENERAL PRODUCT INFORMATION

- Alliance "S" Fan Clutch Super Kits contain all the parts necessary to completely rebuild a Horton "S" Type Fan Clutch.
- Alliance "HT/S" Fan Clutch Super Kits contain all the parts necessary to completely rebuild a Horton "HT/S" Type Fan Clutch.
- Alliance "S" and "HT/S" seal kits contain all the seals necessary to correct air leaks that may be occurring in high-mileage S and HT/S fan clutches.

FREQUENTLY ASKED QUESTIONS

Why should I buy a Super Kit instead of a Major Kit?

Answer: The difference between a Major Kit and a Super Kit is that the Super Kit contains the piston-friction disk (PFD). The PFD is the part that mates with the friction liner. Just like you wouldn't put brake pads on your car without turning or replacing the rotor, you wouldn't want to put a new friction liner on your fan clutch without replacing the PFD.

FEATURES & BENEFITS

- Cost-lower price means price-conscious second and third owners have an option other than buying non-genuine through WD's.
- Premium Friction Liner-A friction liner that wears better and lasts longer than the will-fitters.
- Superior Hub Assembly-Developed to meet the tough demands of high powered, high run-time applications. Also includes a hub bearing that resists moisture for better performance and life.
- Thermal Fuse-Superior thermal fuse design to protect the fan clutch by disengaging the clutch before heat can build up and damage it.

COMPETITIVE CROSSOVER

Part Numbers

Alliance	KitMasters	Horton
ABP/N20-994305	9500HP	994305
ABP/N20-994205	4205	994205
ABP/N20-994307	500HP	994307

WARRANTY

Alliance Parts are backed by a one-year unlimited mile warranty, with coverage available throughout North America.

ADDITIONAL INFORMATION

To learn more about Alliance parts, please visit www.alliancebrandparts.com.

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

HIGH MOVERS

Part Numbers	Description
ABP/N20-994305	Super Kit
ABP/N20-994205	Seal Kit
ABP/N20-994307	Super Kit

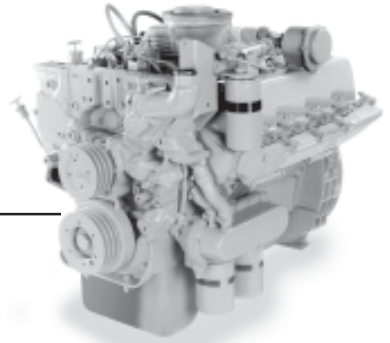
RELATED SERVICE ITEMS

When purchasing an Alliance Super Kit, consider the following:

Part Number	Description
HOR/993293	Solenoid Valve



Alliance Remanufactured CAT 3208 Engines



Can be built to almost any configuration. Special builds to meet your needs.

GENERAL PRODUCT INFORMATION

Complete Drop-In engines include:

- Block
- Crankshaft
- Connecting rods
- Oil pump
- Piston assemblies
- Camshaft
- Timing gears
- Cylinder heads
- Valve train (lifters, pushrods and rocker arms)
- Valve covers
- Front covers & seal
- Flywheel housing
- Water pump
- Intake and exhaust manifolds
- Oil pan
- Damper (front)
- Oil cooler assembly
- Oil filter
- Injection pump
- Injectors
- Fuel filter assembly
- Pick-up tube
- Dipstick tube and guide
- Turbocharger, as required

PART NUMBERS

Alliance Part Numbers	Description
ABP/R01-58D1D210	1160 Series Application, 2800 RPM
ABP/R01-58D4D175	175 HP, 2800 RPM
ABP/R01-58D4D200C	200 HP California w/EGR, 2800 RPM
ABP/R01-58D4D210	210 HP, 2800 RPM
ABP/R01-58D4D210B	210 HP, w/rear sump, 2800 RPM
ABP/R01-58D4D210D	210 HP w/double drilled bell housing, 2800 RPM
ABP/R01-58D4D211	210 HP, 2600 RPM
ABP/R01-58D4D211B	210 HP, 2600 RPM w/rear sump
ABP/R01-58E2D215	215 HP Turbo, 2200 RPM
ABP/R01-58E2D215B	215 Turbo, 2200 RPM w/rear sump
ABP/R01-58E2D225	225 HP Turbo, 2600 RPM
ABP/R01-58E2D225B	225 HP Turbo w/rear sump, 2600 RPM
ABP/R01-58E2D250	250 HP Turbo, 2600 RPM
ABP/R01-58E2D250B	250 HP Turbo w/rear sump, 2600 RPM

ENGINE IDENTIFICATION

The following information is required to identify correct part number:

- Arrangement number
- Serial number
- Horsepower
- Application
- Sump location
- Full load RPM
- High idle RPM
- Naturally aspirated or turbocharged

WARRANTY INFORMATION

Alliance CAT 3208 reman engines are backed by a 2-year/unlimited-mile warranty (1 year fuel.)

All dealer-installed and over-the-counter sales are warranted for parts and labor.

1 year limited warranty on engine fuel system components (injection pumps and injectors). Consumables are not covered.

CORE INFORMATION

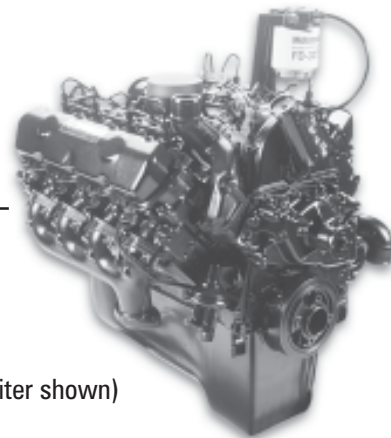
Alliance CAT 3208 engine cores must be returned directly to dealer.

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.



Alliance Remanufactured 6.9/7.3L Diesel Engines



(6.9 liter shown)

The complete line of Navistar 6.9L and 7.3L naturally aspirated and turbo-charged reman engines for E-series (van), F-series (truck) and International applications, including 7.3L T444E products.

GENERAL PRODUCT INFORMATION

All "experienced" parts are evaluated through inspection and testing. Parts not meeting strict quality criteria are replaced. Examples: intake manifold, exhaust manifold, tin-ware, etc. The average rebuild shop typically replaces only those parts that have failed.

Parts replaced regardless of wear include:

- Turbocharger* (if applicable)
- High Pressure Oil* Pump
- Fuel injection pump* (not on the DI)
- Injector* (new on DI)
- Pistons, rings, pins, snap rings
- Connecting rod bearings, bushings, nuts, bolts as needed
- Crankshaft main and thrust bearings, front and rear seals
- Camshaft bearings
- Valves, locks, stem seals
- Water pump* and thermostat
- Oil pump* (and pick-up tube as needed), reman on IDI, new on DI
- Gaskets, cup plugs, clamps, hoses, o-rings
- Grommets, filters, key/pins and seals
- Crankshaft, camshaft* reman

*Remanufactured units.

CORE INFORMATION

Alliance 6.9/7.3L short block, long block and complete engine cores must be returned directly to your local dealer.

WARRANTY

Complete drop-in engines

- 2-year/unlimited miles*

Long block engines

- 1-year/unlimited miles

Short block engines

- 1-year/12000 miles

*1-year limited warranty on engine fuel system components (injection pumps and injectors). Consumables not covered.

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

PART NUMBERS			
Navistar Indirect Injected (IDI) 6.9/7.3L Engines			
Part Number	Year	Description	
Complete Drop-Ins¹			
ABP/R01-56E4D165I	1983-87	6.9L International Harvester, Front Sump, V-Belt	
ABP/R01-56E4D175E	1983-87	6.9L Van Model, Rear Sump, V-Belt	
ABP/R01-56E4D155E	1983-87	6.9L Van Model High Altitude, Rear Sump, V-Belt	
ABP/R01-56E4D175F	1983-87	6.9L Truck Model, Rear Sump, V-Belt	
ABP/R01-56E4D155F	1983-87	6.9L Truck Model High Altitude, Rear Sump, V-Belt	
ABP/R01-56E8D175I	1988-94	7.3L International Harvester, Front Sump, V-Belt	
ABP/R01-56E8D155I	1988-94	7.3L International Harvester, High Altitude, Front Sump, V-Belt	
ABP/R01-56E8D185F	1988-92	7.3L Truck Model, Rear Sump, V-Belt	
ABP/R01-56E8D166F	1988-92	7.3L Truck Model, High Altitude, Rear Sump, V-Belt	
ABP/R01-56E8D185E	1988-92	7.3L Van Model, Rear Sump, V-Belt	
ABP/R01-56E8D166E	1988-92	7.3L Van Model, High Altitude, Rear Sump, V-Belt	
ABP/R01-56F4D185F	1992-94	7.3L Truck Model, Rear Sump, Serpentine Belt	
ABP/R01-56F4D166F	1992-94	7.3L Truck Model, High Altitude, Rear Sump, Serpentine Belt	
ABP/R01-56F4D185E	1992-94	7.3L Van Model, Rear Sump, Serpentine Belt	
ABP/R01-56F4D166E	1992-94	7.3L Van Model, High Altitude, Rear Sump, Serpentine Belt	
ABP/R01-56F3D190T	1993-94	7.3L Turbo, Rear Sump, Serpentine Belt (use only if original assembly was equipped w/turbo)	
Complete Drop-In Turbo Upgrades² (Ford Only)			
ABP/R01-56E4D185U	1983-87	6.9L Model Upgrade, Ford F-Series	
ABP/R01-56E8D190U	1988-92	7.3L Earlier Style Model Upgrade, V-Belt, Ford F-Series	
ABP/R01-56F4D190U	1992-94	7.3L Newer Style Model Upgrade with Serpentine Belt, Ford F-Series	
Long Blocks			
ABP/R01-56E4L069	1983-87	6.9L Long Block (all applications)	
ABP/R01-56E4L069T	1983-87	6.9L Turbo Upgrade Long Block for Ford F-Series, V-Belt	
ABP/R01-56E8L073	1988-94	7.3L Long Block (all applications)	
ABP/R01-56E8L073T	1988-94	7.3L Turbo Upgrade Long Block for Ford F-Series	
ABP/R01-56F3L073	1993-94	7.3L IDI Turbo Long Block (use only if original assembly was equipped w/turbo)	
Short Blocks			
ABP/R01-59E4S069	1983-87	6.9L Short Block (all applications) ³	
ABP/R01-59E8S073	1988-94	7.3L Short Block (all applications)	
ABP/R01-56F3S073	1993-94	7.3L Turbo Short Block (not to be used for turbo upgrade)	
Navistar Direct Injected (DI) 6.9/7.3L Engines			
Part Number	Year	Serial Number	Description
Complete Drop-Ins with New HEUI Injectors			
ABP/R01-59F4D215E	1994-95	501-201680	Van, All States, New Injectors
ABP/R01-59F4D215F	1994-95	501-201680	Truck, All States (F250-F550), New Injectors
ABP/R01-59F6D215EF	1996	201681-375548	Van, 49 States, New Injectors
ABP/R01-59F6D225FF	1996-98	201661-661973	Truck, 49 States (F250-F550), New Injectors
ABP/R01-59F6D215EC	1996	201681-375548	Van, California, New Injectors
ABP/R01-59F6D215EC	1997-98	375549-661973	All States, New Injectors
ABP/R01-59F6D225FC	1996-98	201681-661973	Truck, California (F250-F550), New Injectors
ABP/R01-59F8D215E	1998-99	661974-896811	Van w/EBP Valve, New Injectors
ABP/R01-59F8D235F	1998-99	661974-896811	Truck w/EBP Valve (F250-F550), New Injectors
ABP/R01-59F9D235F	1999 1/2 & Up	896612 & Up	Truck w/EBP Valve (F250-F550), New Injectors
International T-444E Complete Drop-Ins with New HEUI Injectors			
ABP/R01-59F4D210I	1994-96	501-460195	Interntnl Truck & Bus (except high-torque), w/o EBP Valve, New Injectors
ABP/R01-59F7D210I	1997-97 1/2	460196-661893	Interntnl Truck & Bus (except high-torque), w/o EBP Valve, New Injectors
F-Series, E-Series and International Long Blocks			
ABP/R01-59F4L073A	1991-95 1/2	501-174666	E/F Series & International T444
ABP/R01-59F6L073A	1995 1/2-98 1/2	174667-661973	E/F Series & International T444
ABP/R01-59F8L073A	1998 1/2 & Up	661974 & Up	E/F Series
F-Series, E-Series and International Short Blocks			
ABP/R01-59F5S073	1995-98 1/2	501-661973	Short Block (all applications)

Note: Gasket sets must be purchased separately.

1. The glow plugs included with the 6.9L engines feature the late model bullet connector. Installing an application requiring the early spade connector requires the reuse or replacement of the original engine glow plugs.
2. All Turbo Upgrades come with P/N 73EXD exhaust kit. ATS conversion at no charge.
3. 1983 only must replace both heads.

PARTIAL ENGINE OPTIONS

Navistar IDI 6.9/7.3L

Short Block includes:

- Block
- Rods
- Piston assemblies
- Timing gears
- Crankshaft
- Oil pump
- Camshaft
- Block heater

Long Block includes all parts on the short block plus:

- Heads
- Front cover
- Valve train (lifters, pushrods & rocker arms)
- Glow plugs
- Rear cover
- Cover seats

Complete Drop-In includes all parts on the long block plus:

- Oil pan & pickup tube
- Dipstick
- Lift pump
- Water pump
- Oil filter
- Damper pulleys
- Complete fuel system
- Fuel filter assembly
- Intake manifold
- Exhaust manifolds
- Oil cooler
- Dipstick guide

Navistar DI 7.3 L Turbo

Short Block includes:

- Block
- Rods
- Piston assemblies
- Timing gears
- Crankshaft
- Camshaft

Long Block includes all parts on the short block plus:

- Heads
- Valve train
- Engine oil pump
- Rear cover & seal
- Glow plugs

Complete Drop-In includes all parts on the long block plus:

- HP oil pump
- HP oil lines
- Front cover & seal
- Turbocharger
- New HEUI injectors
- Low pressure fuel lines
- Intake manifold
- Oil filter
- Oil cooler
- Oil pickup tube
- Dipstick & guide
- Turbo pedestal
- Turbo exhaust plumbing
- EBP valve (where required)
- Steel skid
- Damper pulley
- Lift pump (where required)
- Exhaust manifolds
- Water pump
- Fuel filter/heater assembly
- Oil pan
- Valve covers

ENGINE IDENTIFICATION

For IDI

6.9L vs. 7.3L

The cylinder head bolt towers are 0.5" on the 6.9L and 1.25" on the 7.3L. Applications for the 6.9L and the 7.3L are not interchangeable.

Truck vs. Van Models

On truck models the dipstick is short and straight, while on van models it is long and curved. Truck and van models are not interchangeable.

Pre-1992 vs. Post-1992

Pre-1992 engines use a V-belt configuration, while post-1992 engines use a serpentine configuration.

Ford vs. International

Ford applications have a rear sump and International applications have a front sump.

For DI

Many times, the engine and the vehicle do not share the same production year.

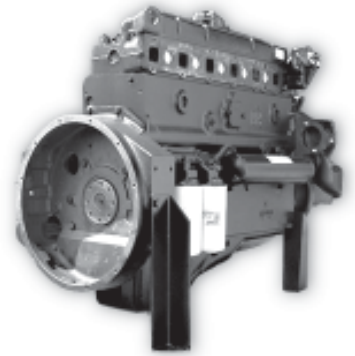
For F & E Series, complete VIN and serial number are required to identify the correct part number.

For International, the serial number is required to identify the correct part number.

The engine serial number is located on a machined pad between the oil filter and the flywheel.



Alliance Remanufactured DT-466 Long Block Supreme & Drop-In Engines



- **The Alliance DT-466 Long Block Supreme includes** block, rods, oil cooler, valve cover, water pump (no pulley), piston/sleeve assemblies, timing gears, front cover & seal, gasket set, thermostat, damper & pulley assembly, crankshaft, oil pan, oil pump, pickup tube, valve train, camshaft, head, flywheel housing, oil filter, thermostat housing.
- **The Complete Drop-In includes** all parts on the Long Block Supreme plus: air crossover tube (where required), intake manifold, dipstick guide (lower portion), complete fuel system (injectors, high & low pressure lines, injection pump & fuel filter assembly), turbocharger, exhaust manifolds.

“ONE STOP SHOPPING” IN-FRAME OVERHAUL KITS

In addition to “Long Block Supreme” engines, we offer three in-frame engine overhaul kits to make sure that you receive the correct parts for your engine in a single purchase. There is no longer a need to purchase newer bearings and valve seals in addition to the overhaul kit. Simply identify the serial number of the engine to order the correct kit. It’s that easy.

Part Number	Description	Application
ABP/R01-84D8Z076	DT-466 In-Frame Engine Overhaul Kit	Narrow Bearing, Old Style Valve Seal - Engine Serial Number Range 75000 through 439618
ABP/R01-84E5Z076	DT-466 In-Frame Engine Overhaul Kit	Wide Bearing, Old Style Valve Seal - Engine Serial Number Range 439619 through 594856
ABP/R01-84E8Z076	DT-466 In-Frame Engine Overhaul Kit	Wide Bearing, New Style Valve Seal - Engine Serial Number Range 594840 through 850653

Contents of the kit: 6 pistons & sleeves; 6 piston ring sets; 12 pin clips; 6 bearing, main, std.; 1 gasket kit; 6 piston rings; 6 sleeve o-ring sets; 1 bearing, rod, std.; 2 bearing, thrust, std.

ENGINE IDENTIFICATION

To order the Navistar DT-466, please have the following information ready: full engine serial number, horsepower, and whether engine is turbocharged only, turbocharged with intercooler or turbocharged with aftercooler. To identify if the application has a high mount or low mount fan:

1978-1985	Low Mount	3 grooves in damper
1978-1987	High Mount	4 grooves in damper

The full serial number (13 digits) is needed to identify correct replacement. Serial number example:

468TM2U444957, The first 3 digits determine series:

467 = B series	468 = C series
466 = A series	469 = E series

LONG BLOCK SUPREME					
Part Number	Description	Year	HP Range	Serial Number Range	International Part Number
ABP/R01-54D8M076H	Cargostar/Fleetstar and S-line, High Fan, All States	1978-82	160-210	75000-399999	735391C94
ABP/R01-54D8M076L	Cargostar and Paystar, Low Fan, All States	1978-82	160-210	75000-399999	735536C94
ABP/R01-54E3M076H	S-Line, High Fan, All States	1983-87	165-240	400000-532980	735394C94
ABP/R01-54E3M076L	Cargostar, Low Fan, All States	1983-85	165-240	400000 and Above	735538C94
ABP/R01-54E8M076A	All Chassis, All States	1988	185-245	532981-567491	735412C94
ABP/R01-54E9M076A	All Chassis, All States	1989-93	185-270	567492-Y50653	735420C94

COMPLETE DROP-INS			
Part Number	Description	Year	Serial Number
ABP/R01-54E3D210I	DT-466C, S-Line 210 HP, 49 States, High Mount Fan, Inline Pump	1983-87	400000-532980
ABP/R01-54E3D210L	DT-466C, Cargostar 210 HP, 49 States, Low Mount Fan, Inline Pump	1983-85	400000 and Above
ABP/R01-54E3D210G	DTI-466C, S-Line 210 HP, California, High Mount Fan, Inline Pump, Intercooled	1983-87	400000-532980
ABP/R01-54E3D210J	DTI-466C, Cargostar 210 HP, California, Low Mount Fan, Inline Pump, Intercooled	1983-85	400000 and Above
ABP/R01-54E8D210C	DTI-466C, All Chassis 210 HP, California, Inline Pump, Intercooled	1988	532981-567491
ABP/R01-54E8D210I	DT-466C, All Chassis 210 HP, 49 States, Inline Pump	1988	532981-567491
ABP/R01-54E9D210C	DTA-466C, All Chassis 210 HP, California, Inline Pump, Aftercooled	1989	567492-594840
ABP/R01-54E9D210I	DT-466C, All Chassis 210 HP, 49 States, Inline Pump	1989	567492-594840
ABP/R01-54F0D210I	DT-466C, All Chassis 210 HP, All States, Inline Pump	1990	594841-618495
ABP/R01-54F1D210I	DT-466C, All Chassis 210 HP, All States, Inline Pump	1991-93	618496-850653
ABP/R01-54F2D210I	DTA-466C, All Chassis 210 HP, All States, Inline Pump, Aftercooled	1992-93	642456-850653

WARRANTY INFORMATION

Each of these remanufactured DT-466 engines carry the standard Alliance warranty:

Long block—1 year; Drop-In—2 year; 1 year fuel.

All dealer-installed and over-the-counter sales are warranted for parts and labor. 1 year limited warranty on engine fuel system components (injection pumps and injectors). Consumables are not covered.

PRODUCT AVAILABILITY

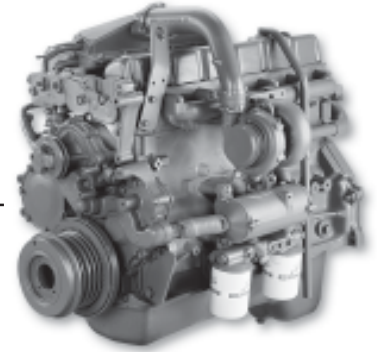
To locate your nearest dealer, please visit www.freightliner.com.

CORE INFORMATION

Alliance DT-466 engine cores must be returned directly to dealer.



Alliance Remanufactured Ford New Holland Engines



The complete line of 6.6L and 7.8L Ford New Holland remanufactured engines, including complete Drop-in and Short Block configurations.

PART NUMBERS

Part Number	Description
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Drop-Ins

DLM/E7HZ6007FRM	1987, 240 hp, Drop-In, 7.8L Engine, 2600 RPM
DLM/E7HZ6007PRM	1987, 210 hp, Drop-In, 7.8L Engine, 2600 RPM
DLM/E8HZ6007HRM	1987-90, 170 hp, Drop-In, 6.6L Engine, 2600 RPM
DLM/E8HZ6007KRM	1987-90, 185 hp, Drop-In, 7.8L Engine, 2400 RPM
DLM/E8HZ6007LRM	1988-90, 210 hp, Drop-In, 7.8L Engine, 2400 RPM
DLM/E8HZ6007PRM	1988-90, 240 hp, Drop-In, 7.8L Engine, 2400 RPM
DLM/E9HZ6007CRM	1988-90, 270 hp, Drop-In, 7.8L Engine, 2400 RPM
DLM/FOHZ6007CRM	1989-90, 185 hp, Drop-In, 7.8L Engine, 2400 RPM
DLM/F1HZ6007ARM	1991-93, 190 hp, Drop-In, 7.8L Engine, 2300 RPM
DLM/F1HZ6007BRM	1991-93, 210 hp, Drop-In, 7.8L Engine, 2300 RPM
DLM/F1HZ6007CRM	1991-93, 170 hp, Drop-In, 6.6L Engine, 2600 RPM
DLM/F1HZ6007DRM	1991-93, 185 hp, Drop-In, 6.6L Engine, 2400 RPM
DLM/F1HZ6007GRM	1991-93, 225 hp, Drop-In, 7.8L Engine, 2300 RPM
DLM/F1HZ6007HRM	1991-93, 240 hp, Drop-In, 7.8L Engine, 2300 RPM
DLM/F1HZ6007KRM	1991-93, 270 hp, Drop-In, 7.8L Engine, 2300 RPM

Short Blocks

DLM/E6HZ6009DRM	1986, Cargo only, 6.6L Short Block
DLM/E8HZ6009ARM	1987-90 All except 215 & 270 hp, 7.8L, Short Block
DLM/E8HZ6009FRM	1989-90, 165 hp only, 6.6L Short Block
DLM/E9HZ6009CRM	1987-90, All except 165 hp, 6.6L Short Block
DLM/E9HZ6009DRM	1989-90, 215 & 270 hp only, 7.8L Short Block
DLM/F1HZ6009ARM	1991-93, All hp, 6.6L Short Block
DLM/F1HZ6009BRM	1991-93, All except 215 & 270 hp, 7.8L, Short Block
DLM/F1HZ6009CRM	1991-93, 215 & 270 hp only, 7.8L Short Block

GENERAL PRODUCT INFORMATION

Complete Drop-in engines include:

- Block
- Crankshaft
- Connecting rods
- Oil pump
- Piston assemblies
- Camshaft
- Timing gears
- Turbo charger
- Cylinder heads
- Valve train
- Valve covers
- Front covers
- Water pump
- Intake and exhaust manifolds
- Oil pan
- Damper
- Oil cooler assembly
- Oil and fuel filters
- Injection pump
- Injectors
- Fuel lines

Short Block engines include:

- Block
- Crankshaft
- Connecting rods
- Front plate
- Piston assemblies
- Camshaft
- Timing gears

ENGINE IDENTIFICATION

To place an order, please gather the following information:

- OE engineering number (with 6007 in the middle)
- Model year
- Type of turbo system (i.e., standard turbo, air-to-air, water after cooler)
- Horsepower rating
- Rated speed

All information should be located on a label on the valve cover. If the label is missing or you have other questions, please call your dealer.

WARRANTY INFORMATION

Complete Drop-in engines

- 2-year/unlimited miles*

Short Block configurations

- 1-year/12,000 miles

Reman & New Parts

- 1-year/unlimited miles

All dealer-installed and over-the-counter sales are warranted for parts and labor.

*1 year limited warranty on engine fuel system components (injection pumps and injectors). Consumables are not covered.

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

ENGINE PARTS PROGRAM

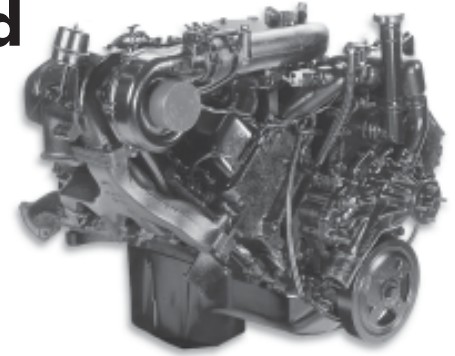
A complete offering of new piece parts and remanufactured sub-components is available for all Ford New Holland engine applications.

CORE INFORMATION

Alliance remanufactured Ford New Holland engine cores must be returned directly to dealer.



Alliance Remanufactured 6.5L GM Engines



The complete line of Alliance 6.5L GM naturally aspirated and turbo-charged reman engines include Drop-In and Long Block Supreme configurations.

PART NUMBERS	
Part Number	Description
Drop-In Engines	
ABP/R01-51F2D190DB	1992-93 C/K Truck, Mechanical Inj. Pump, 190 HP, L65, Vin F
ABP/R01-51F4D190DS*	1994-95 C/K Truck, Electronic Pump, 190 HP, L65, Vin F
ABP/R01-51F7D190DS	1996-99 C/K Truck, Electronic Pump, L65, Vin F, 190 HP, Bolt-On Fan Clutch Only
ABP/R01-51FUD190V	1996-99 G-Van w/Center Turbo, Electronic Pump, 190 HP, L65, Vin F, Bolt-On Fan Clutch
ABP/R01-51F4D160DB	1994-96 G-Van/P-Chassis, Mechanical Inj. Pump, L57, Vin Y, 160 HP
ABP/R01-51E2D150R	1982-91 6.2 Repower for P-Chassis/G-Van Applications Only, No EGR
ABP/R01-51F9D190DS	1999-01 C/K Truck, Electronic Inj. Pump, 190 HP, L65, VIN F, Thread-On Fan Clutch, Integrated Pulley (part of water pump)
Long Block Supreme Engines	
ABP/R01-51F4M065B*	1992-93 All applications, 6.2L Repower long block
ABP/R01-51F4M065B*	1992-95 Turbo Applications long block
ABP/R01-51F4M065B*	1994-99 Naturally Aspirated Applications long block
ABP/R01-51F7M065C	1996-99 Turbo Applications except Applications w/Center Turbo long block
ABP/R01-51F2M065A	1982-91 6.2L Repower (All applications), oil cooler line orifice drilled to 1/2", shipped w/3/8" oil cooler line adaptor. When replacing a 1982 engine, must replace original coarse thread injectors with fine thread injectors.

CONFIGURATION INFORMATION
<p>Long Block Supreme engines include:</p> <ul style="list-style-type: none"> • Long block assembly • Front cover • Oil pump • Oil pan • Valve covers • Pick-up tube • Gasket set <p>Complete Drop-in engines include:</p> <ul style="list-style-type: none"> • Long Block Supreme assembly • Fuel system • Turbocharger (if applicable) • Exhaust manifolds • Intake manifold • Fuel and oil filters • CDR (PCV) valve • Glow plugs

*The ABP/R01-51F4M065B works for various configurations from 1982-1999.

*The ABP/R01-51F4D190DS will not work with the ECM module on 1994 Heavy-Duty applications with the following engine codes: YYF, YYH, YYJ, YYK and YYX. The engine code is located on the front left-hand side of cylinder block under the intake manifold.

*To verify 6.5L vs 6.2L applications, locate the casting number on the rear driver's side of block above flywheel housing. The following is an all-inclusive list of 6.5L block cast numbers: 10149599, 12552929, 10237141, 1255506. All GM 6.5L Long Block Supremes shipped with 3/8" oil cooler line adaptor.

GENERAL PRODUCT INFORMATION

All "experienced" parts are evaluated through inspection and testing. Parts not meeting strict quality criteria are replaced. Examples: intake manifold, exhaust manifold, tin-ware, etc. The average rebuild shop typically replaces only those parts that have failed.

Parts replaced regardless of wear include:

- Turbocharger* (if applicable)
- Fuel injection pump*
- Pistons, rings, pins, snap rings
- Connecting rod bearings, bushing, nuts, bolts as needed
- Crankshaft main and thrust bearings, front and rear seals
- Camshaft bearings
- Valves, locks, stem seals
- Water pump* and thermostats
- Oil pump* and pick-up tube
- Gaskets, dowel, cup plugs, clamps, hoses, o-rings
- Grommets, filters, key pins and seals
- Crankshaft*, camshaft*

**Remanufactured units.*

CORE INFORMATION

Alliance 6.5L GM engine cores must be returned directly to dealer.

WARRANTY INFORMATION

Complete Drop-in engines

- 2-year/unlimited miles

Long Block Supreme configurations

- 1-year/unlimited miles

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

ENGINE IDENTIFICATION

It is common to find vehicles that have had a 6.5L engine substituted for a 6.2L engine. The difference in the fuel filter assemblies can be used to positively determine whether an engine is a 6.2L or 6.5L in a P-chassis vehicle.

To place an order or check price availability, please gather the following information:

- VIN
- Vehicle chassis type
- Vehicle engine type
- Vehicle model year

The VIN is visible through the windshield on the driver's side of the vehicle.