

## Cummins AFC Fuel Pump Gasket and Overhaul Kits

Over the years our basic gasket set for Cummins AFC fuel pumps, D3010242, has had many changes. Today, our kit contains several parts and quantities different from the equivalent Cummins part number. Also, we have created many overhaul kits for various levels of fuel pump repair. The purpose of this bulletin is to bring you up to date on the contents of our various kits for Cummins AFC (non-VS) fuel pumps. All kit content listings in this bulletin are effective for kits built after August 20, 2001.

The base for all of our Cummins AFC gasket and overhaul kits is the D3010242 gasket kit. Since the kit was first introduced, Cummins has used many different types of main shaft seals. The reasons for the changes are beyond the scope of this bulletin, other than we have three variations of the D3010242 kit, with the only difference being the type of main shaft seal used in the kit. The D3010242 kit includes two of the D3062676 main shaft seal. This seal has a thin profile with one side rounded and a green coating on the outside diameter to help with insertion and sealing. However, many shops still prefer an older metal case seal, D3009625. The D3009625 seal is found in the D3010242M gasket kit. Now Cummins has introduced a new main shaft seal, DIPACO part number D3075523. The D3075523 has a nitrile, ribbed coating on the outside diameter and a teflon sealing area. The D3075523 seal is used in a new kit, D3010242T. Following are the contents of the D3010242, D3010242M, and D3010242T gasket kits.

Part Number and Description	Qty	Part Number and Description	Qty
D100099 Damper O-Ring	1	D3023870 Gasket	1
D100478 Throttle Shaft O-Ring	1	D3042542 O-Ring	1
D100764 Front Housing Gasket	1	D3044942 Seal Ring	1
D105375 Name Plate	1	D3045986 O-Ring	1
D110855 Gear Pump Gasket	1	D3063052 Front Housing Gasket	1
D114791 O-Ring	1	D3066914 O-Ring	2
D129888 Shut Down Valve O-Ring	1	D3069017 Pump Mount Gasket	1
D139988 Damper O-Ring	1	D3069103 Pump Mount Gasket	1
D151900 O-Ring	1	D43696A O-Ring	1
D154087 Shut Down Valve O-Ring	1	D68061A O-Ring	2
D154088 Filter Cap O-Ring	1	D70415 O-Ring	2
D160514 Nylon Shut Down Valve Gasket	1	D70705 Governor Housing Gasket	1
D163945 Snap Ring	1	DS2286 Nameplate Screw	4
D172049 O-Ring	1	<i>The following seal is used only in the D3010242 kit</i>	
D212603 Seal	1	D3062676 Main Shaft Seal (Green Coated)	2
D213079 O-Ring	1	<i>The following seal is used only in the D3010242M kit</i>	
D213768 O-Ring	1	D3009625 Main Shaft Seal (Metal Case)	2
D3002481 O-Ring	1	<i>The following seal is used only in the D3010242T kit</i>	
D3003156 Lead Wire Seal	2	D3075523 Main Shaft Seal (Teflon)	2
D3018682 Capscrew	1		

Some of the differences between the DIPACO D3010242 kit and Cummins are we include the nameplate and screws, an extra lead wire seal, both styles of AFC (non-VS) front cover gasket, and an extra aneroid barrel o-ring, along with the choice of seals.

## Cummins AFC Fuel Pump Gasket and Overhaul Kits

After the basic gasket sets, we have developed a number of overhaul kits, based on customer input. One significant change we have made to all of our overhaul kits is in the type of diaphragm used. Cummins originally used a nitrile AFC diaphragm which was later superseded by a silicone diaphragm. Due to cost, many shops continued to use the nitrile diaphragm and some of our kits also included it. We have now upgraded all of our AFC overhaul kits to use only the silicone diaphragm, **D3013811S**.

Our overhaul kits involve three levels of repair. The first level included some throttle shaft repair parts, the drive spider, and AFC diaphragm. These kits are numbered using our basic AFC gasket number (depending on the main shaft seal) with a K added to the end.

The second level of kits cover a more extensive pump rebuild and include items such as the main shaft, tach shaft and bushing, main shaft bearing, and other parts. We have now also added the **D129839** Shut Down Shield to these kits and the kits ending with S. This now provides you in this kit all of the pieces needed to rebuild the fuel shut down assembly. These kits are numbered **DPE10030**, **DPE10035**, and **DPE10040**.

The third kit level involves a major or complete rebuild of an AFC fuel pump with the addition of governor plunger parts. At this level the only additional parts you usually need for the main fuel pump are sized items like throttle shafts and aneroid plungers. These kits are numbered **DPE10030S**, **DPE10035S**, and **DPE10040S**. Remember, the only difference among the kits at each overhaul level is the main shaft seals used.

Finally, all of the kits referenced in this bulletin will contain a parts listing inside each kit along with an o-ring, seal, and gasket identification chart.

Below are the contents of each AFC overhaul kit.

### KIT NUMBER AND CONTENTS

PART NUMBER AND DESCRIPTION	KIT NUMBER AND CONTENTS								
	D3010242K	DPE10030	DPE10030S	D3010242MK	DPE10035	DPE10035S	D3010242TK	DPE10040	DPE10040S
D3010242 Gasket Kit	1	1	1						
D3010242M Gasket Kit				1	1	1			
D3010242T Gasket Kit							1	1	1
D129839 Shut Down Shield		1	1		1	1		1	1
D146483 Filter Screen		1	1		1	1		1	1
D162426 Drive Spider (Black Nitrile)	1	1	1	1	1	1	1	1	1
D212601 Main Shaft		1	1		1	1		1	1
D212607 Tach Shaft		1	1		1	1		1	1
D212609 Bushing		1	1		1	1		1	1
D212668 Key		1	1		1	1		1	1
D213769 Throttle Shaft Ball (Steel)	1	1	1	1	1	1	1	1	1
D3000446 Throttle Shaft Cover	1	1	1	1	1	1	1	1	1
D3013811S Diaphragm (Orange Silicone)	1	1	1	1	1	1	1	1	1
D3027633 Governor Plunger Thrust Washer			1			1			1
D3030970 Fuel Shut Down Valve Plate		1	1		1	1		1	1
D3040817 O-Ring	1	1	1	1	1	1	1	1	1
D3048557 Spacer			1			1			1
D3051463 Aneroid Washer		2	2		2	2		2	2
D70690 Governor Plunger T-Driver			1			1			1
DPE30200 Throttle Shaft Cover Decal		1	1		1	1		1	1
DS16052 Main Shaft Bearing		1	1		1	1		1	1