

EUPPUMPS

0414799003 Common Rail EUP Pump 0414 Series Technical File

SKU1: G1K30414799003

SKU2: Z1K30414799003

EUP PUMPS

COMMON RAIL 0414 TECHNICAL DOCUMENTATION



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0414799003 Common Rail EUP Pump 0414 Series Technical File

1. 0414799003 Common Rail EUP Pump Introduction

1.1. 0414799003 Common Rail EUP Pump Basic Information

Title	0414799003 Common Rail EUP Pump 0414 Series	Quality
SKU	G1K30414799003	Original New
SKU	Z1K30414799003	Re-manufactured

1.2. 0414799003 Common Rail EUP Pump Common Part Number

(1) Common Rail EUP Pump Exchange Information

Common Rail EUP Pump Part Number	Compatible Number	OE Number
0414799003	0986445103	028 074 48 02
0414799008	F00E200403	A 028 074 48 02
0414799027	/	/

(2) Common Rail EUP Pump Application Information

Vehicle Brand	Car Model	Engine Model
/	1215 C	OM 904 LA
/	1318	OM 904 LA
/	1718 M	OM 904 LA
/	L 1418	OM 904 LA

(3) Common Rail EUP Pump Part Number Common Writing

0414799003, 0 414799003, 0414 799003, 0 414 799003, 0 414 799 003, 0414799 003, 0414799008, 0 414799008, 0 414 799008, 0414799 008, 0414 799008, 0 414799 008, 0986445103, 0 986445103, 0986 445103, 0 98 6445103, 0 986 445 103, 0986445 103, 0280784802, A0280784802, F00E200403

1.3. 0414799003 Common Rail EUP Pump Matching Information

Vehicle Brand	Series	Car Model	Production Date	Power (KW)	Horse Power	Emission Standards	Manufacturer	Emissions (L)	Cylinder	Power Source (V)
/	0414	400 E.TEC H Magn um	03/2001 - 09/2004	294	400	/	/	12.0	6	24

1.4. 0414799003 Common Rail EUP Pump Parameter

Adaptation System: Common Rail System

Common Rail EUP Pump Series: 0414 Series

Common Rail EUP Pump Type: Electromagnetic Common Rail EUP Pump

Parameter Performance: PLD1C100/440/24S140

1.5. 0414799003 Common Rail EUP Pump Specifications and Dimensions

Common Rail EUP Pump Size: 26cm* 10cm *10cm

Common Rail EUP Pump Net Weight: 1.8kg

Common Rail EUP Pump Gross Weight: 1.85kg

Common Rail EUP Pump Quality: Re-manufactured/Original New

Common Rail EUP Pump Package Size: 28cm*14cm *14cm

Common Rail EUP Pump Type: Diesel Common Rail EUP Pump

Common Rail EUP Pump MOQ: 1 Pieces

1.6. 0414799003 Common Rail EUP Pump Quality Control

(1) Common Rail EUP Pump Testing

All common rail EUP pump spare parts are tested for electrical characteristics, accuracy, high temperature, low temperature, withstand voltage, leakage, durability, and various working conditions.

(2) Common Rail EUP Pump Assembling

And the quality control of the common rail EUP pump production and installation process, our company strictly follows the standard product installation data and product installation steps to install, such as common rail EUP pump stroke test, common rail EUP pump solenoid valve tightening torque.

(3) Common Rail EUP Pump Inspection

The factory inspection of the common rail EUP pump is undergone full inspection, random inspection, and batch inspection three inspections. Different brands of test benches are used to test the same common rail EUP pump for a total of no less than three times for factory inspection, and the common rail EUP pump installation testing environment are progressed in dust-free workshop.

1.7. 0414799003 Common Rail EUP Pump Customized Service

(1) Common Rail EUP Pump Customized Service: Meet the customized needs of OEM manufacturers for shell lettering, logo engraving, common rail EUP pump internal packaging, common rail EUP pump external packaging and labels customized, etc.

	
Common Rail EUP Pump House Lettering	Common Rail EUP Pump Box and Label

(2) Common Rail EUP Pump Customized Service Requirements:

The purchased of customized common rail EUP pump are not less than 4 pieces.

Customized common rail EUP pump packages no less than 1000 pieces.

When the customized products involve the need of specify logo, the OEM manufacturer needs to provide trademark authorization and the sample of logo image file.

⚠ Once the customized common rail EUP pump is sold, it cannot be returned or exchanged if there is no quality problems.

1.8. 0414799003 Common Rail EUP Pump Packing List and Package Size

(1) Common Rail EUP Pump Spare Parts List

No.	1	2	3
Image			
Name	Common Rail EUP Pump	VCI Anti-rust Bag	Oil Absorbing Paper
Description	Common rail EUP pump part number: 0414799003	Prevent common rail EUP pump from rusting	Protect the unit pump from leakage
No.	4	5	6
Image		/	/
Name	Common rail EUP pump Packing Box	/	/
Description	Place common rail EUP pump and common rail EUP pump accessories	/	/

⚠ Minors are forbidden to use the common rail EUP pump assembly, O-ring, gasket, protective cover, common rail EUP pump house protective cover, solenoid valve protective cover, VCI anti-rust bag, and air bubble bag to avoid personal injury.

⚠ O-ring and gasket are disposable installation accessories, and need to be replaced for re-installation.

⚠ The protective cover is recyclable accessories that can be reused.

⚠ VCI anti-rust bags and bubble bags are non-degradable materials, please dispose of them properly after using.

⚠ The common rail EUP pump and the installation parts should be coated with appropriate sealing oil during installation.

(2) Common Rail EUP Pump Box Size



No.	Name	Common Rail EUP Pump Package Size (cm)
1	Common Rail EUP Pump Box	28*14*14

1.9. 0414799003 Common Rail EUP Pump Testing Standard and Certificate

We can provide the factory quality inspection test report of each common rail EUP pump to ensure that each common rail EUP pump delivered meets the engine performance indicators.

BOTEN		测试报告		4.05.2019 10:42:09	
企业名称: _____					
电话: _____		地址: _____			
传真: _____		检测人: _____			
客户地址: _____		送检单位: _____			
电话: _____		客户姓名: _____			
传真: _____		检测日期: _____			
检测项目: _____					
检测名称: 燃油泵					
型号-零件号: _____					
检测地点: _____					
检测结果					
检测标准: C98002-6511					
	检测项目	检测结果	标准值	判定	
LEAK TEST:	30	0.5	0.5	合格	✓
Back:	30	0.5	0.5	合格	✓
WPRM:	30	12.5±10.5	0.5	不合格	✗
Max:	20.5	21.5±14.4	0.5	合格	✓
TL:	28.4	25.0±8.5	0.5	合格	✓
IL:	14.1	12.5±4.8	0.5	合格	✓
VE:	4.7	4.5±1.0	0.5	合格	✓
检测日期: 4.05.2019					
检测地点: 燃油泵					

1.10. 0414799003 Common Rail EUP Pump Warranty Instructions

(1) Product Warranty Conditions and Instructions

It is necessary to provide pictures, videos, or test reports detected by the common rail EUP pump inspection equipment when the common rail EUP pump is abnormal during use as evidence to feed back to the salesman.

Abnormal conditions are properly explained such as: 1.Smoke, 2. Engine shake, 3. Difficulty starting the engine, 4. Engine noise, 5. oil leakage etc.

(2) Common Rail EUP Pump Warranty Coverage

① Within 15 days after customer receives the 0414799003 injector, if there is a performance failure and the product has no appearance damage, customer can choose to replace it or repair it;

② If the 0414799003 common rail EUP pump has performance problems during the warranty period (6-12 months), and it is confirmed that it is product's problems after testing, you can contact our salesmen to replace the same model or a reworked product with the same performance for free;

③ If the common rail EUP pump house has obvious scratches, it can only be repaired and it will be returned as it is if the product is confirmed to be fault-free.

▲ **Tips:** For products not covered by warranty, our company can provide paid maintenance services. For products after paid repaired, the same performance problem will have a free warranty period within 3 months from the date of repairing.

(3) Common Rail EUP Pump Out of Warranty Coverage

- ① The warranty period has expired.
- ② Common rail EUP pump working failure caused by high temperature, high pressure, humidity, rain and snow, saline-alkali land, earthquake, and used in abnormal environment.
- ③ Customer disassembles or repairs the common rail EUP pump personally resulting in damage to the common rail EUP pump.
- ④ Common rail EUP pump damage caused by man-made reasons (throwing, strong magnetic field magnetization, set fire).
- ⑤ Common rail EUP pump working failure or common rail EUP pump damaged caused by non-common rail EUP pump design, technology, manufacturing, quality and other issues.
- ⑥ Common rail EUP pump working failure due to system pressure exceeding system approved pressure.
- ⑦ Common rail EUP pump working failure caused by system voltage exceeding approved voltage.
- ⑧ Common rail EUP pump working failure caused by impurities (water, lead, aluminum powder, iron powder, sulfide) in the system fuel exceeding the standard requirements.
- ⑨ Common rail EUP pump working failure caused by not installing according to the tightening torque specified in the vehicle engine maintenance manual (the tightening torque is too large or too small).
- ⑩ Common rail EUP pump working failure caused by not following the installation angle specified in the vehicle engine maintenance manual.
- ⑪ Common rail EUP pump working failure caused by not following the cleaning requirements specified in the vehicle engine maintenance manual.
- ⑫ Common rail EUP pump working failure caused by failure to replace consumable parts as specified in the vehicle engine maintenance manual.
- ⑬ Common rail EUP pump working failure caused by not complying with the intake system fit clearance and exhaust system fit clearance requirements specified in the vehicle engine maintenance manual.
- ⑭ Failure to replace the consumable parts and the fitting clearance of the oil inlet system pipeline and the common rail EUP pump connection in accordance with the fuel intake system specified in the vehicle engine maintenance manual.

2. 0414799003 Common Rail EUP Pump Technical Support

2.1. 0414799003 Common Rail EUP Pump Part Number Location

1) E.g.: The common rail EUP pump part number location is as follows

No.	Name
A	brand, logo, part number



2.2. 0414799003 Common Rail EUP Pump Installation Precautions:

- (1) The replacement of the common rail EUP pump must strictly follow the electrical system, the approved pressure of the low-pressure fuel intake system, the approved pressure of the high-pressure fuel circuit system, and fuel system replacement consumables requirements (including the low-pressure fuel circuit system filter and the high-pressure fuel circuit) specified in the vehicle engine maintenance manual,
- (2) Replacement of wearing parts of the fuel system, cleaning requirements for the connection between the fuel system and the injector, the fitting clearance of the common rail EUP pump connection, the installation angle and tightening torque of the injector, the fitting clearance of the intake system, and the fitting clearance of the exhaust system to ensure the service life of the engine and the normal operation of the injector.
- (3) When installing the common rail EUP pump on the engine, it is necessary to clean the engine block, cylinder head and other parts connected to the common rail EUP pump, and ensure that there is no dust, carbon deposits, water, rust spots, etc.
- (4) When installing the common rail EUP pump, apply lubricant between the common rail EUP pump, sealing gasket and O-ring.

- (5) When installing the common rail EUP pump on the engine, please carefully check the components related to the installation of the common rail EUP pump, such as the common rail EUP pump pressure plate, screw, common rail EUP pump rod and other accessories are not deformed, and install it in strict accordance with the operation steps of the engine maintenance manual.
- (6) It is forbidden to operate the bare common rail EUP pump for a long time in an environment with serious dust pollution and corrosion to iron products.
- (7) It is forbidden to operate the bare common rail EUP pump for a long time in a strong magnetic field environment.

2.3. Reasons for 0414799003 Common Rail EUP Pump Not Working Normally

- (1) There is air in the oil circuit of the engine fuel system.
- (2) Vehicle oil pump oil supply system is not normal.
- (3) Engine common rail system oil leakage or pressure limiting valve damage.
- (4) There is a short circuit, cutting out and poor contact in the wiring harness connected to the common rail EUP pump of the vehicle.
- (5) The long-term placement of the common rail EUP pump causes the anti-rust oil to solidify, and the internal components are stuck or the oil holes are blocked.

▲ Before installing, carefully check whether other components in the common rail system except the common rail EUP pump are damaged so as to prevent the common rail EUP pump from not working properly after being replaced.

2.4. Causes of 0414799003 Common Rail EUP Pump Being Damaged

- (1) The operator does not operate properly according to engine maintenance manual during disassembly or installation, resulting in damage to the common rail EUP pump.
- (2) The fuel oil used for the vehicle does not meet the standard cause damage to the common rail EUP pump, such as: the water content in the fuel oil exceeds the standard, iron powder, aluminum powder, sulfide impurities exceed the standard, etc.
- (3) The engine is not regularly maintained according to the engine maintenance manual (please refer to the vehicle maintenance manual for the maintenance mileage). For example, failure to replace the lubricating oil of the engine system for a long time will cause abnormal wear of the engine, excessive exhaust gas volume or a large amount of carbon deposits inside the engine. The filter is not replaced during maintenance or the replaced filter cannot reach the original filter standard. all above reasons can cause damage to the injector.
- (4) The abrasion of the oil pump produces iron powder and aluminum powder enter the common rail EUP pump and cause damage to the common rail EUP pump.
- (5) The deformation and abrasion of fuel tank result in iron powder or aluminum powder entering the common rail EUP pump and causing damage to the common rail EUP pump.
- (6) The common rail EUP pump is damaged due to replacement or adjustment of the relevant parts of the common rail EUP pump. For example, the valve clearance does not meet the standard after the engine is repaired, the replacement or modification of the wiring harness connected to the common rail EUP pump fails to meet the original standard.
- (7) The engine is overheated and overloaded for a long time working results in damage to the common rail EUP pump.
- (8) The common rail EUP pump will be damaged naturally at the end of its working life.
- (9) The common rail EUP pump is magnetized (common rail EUP pump parts' magnetic exceeded) causing the common rail EUP pump to not work properly.

▲ Before replacing the common rail EUP pump, please check the engine parts carefully according to the engine maintenance manual to avoid the common rail EUP pump being damaged again after replacement.

2.5. 0414799003 Common Rail EUP Pump Technical Support Obtaining Methods

- (1) Common Rail EUP Pump Technical File: <https://www.euppumps.com/download/>
- (2) Common Rail EUP Pump Videos: <https://www.euppumps.com/videos/>
- (3) Common Rail EUP Pump Encyclopedia: <https://www.euppumps.com/category/news/encyclopedia/>

3. 0414799003 Common Rail EUP Pump Purchase and Delivery

3.1. 0414799003 Common Rail EUP Pump Purchase Payment Term

Payment Terms: T/T, PayPal, Alipay, WeChat

Please contact our salesmen for specific payment information.

3.2. 0414799003 Common Rail EUP Pump Main Sales Markets

Common rail EUP pump main sales markets: Asia, Europe, North America, South America, Africa etc.

3.3. 0414799003 Common Rail EUP Pump Declaration Requirements

We can assist customers to provide the following documents for import customs clearance: contract, invoice, packing list, bill of lading, insurance policy, certificate of origin, etc.

3.4. 0414799003 Common Rail EUP Pump Shipping Ways

Destination in China areas: SF Express, Debon Express, the corresponding logistics company can be provided according to customer requirements in special cases.

Destinations out of China's areas: DHL, UPS, FedEx, TNT air, ocean or other shipping methods required by customers.

3.5. 0414799003 Common Rail EUP Pump Lead time

Lead time: Send out within 3 – 7 working days after receiving payment (Except for special products and special cases) .

3.6. 0414799003 Common Rail EUP Pump Logistics Time for Destination Out of China's Areas

DHL Logistics Time :

Country or Region of Departure	Hong Kong, China	Other Countries or Regions of Asia	Australia and New Zealand	Europe	America	Other Countries
China's Mainland	7 Days	7 Days	8 Days	8 Days	8-12 Days	7-10 Days

UPS Logistics Time: Country or Region of Departure: China's Mainland

Country of Destination	Estimated Arrival Time	Country of Destination	Estimated Arrival Time	Country of Destination	Estimated Arrival Time
Japan	3 Days	UK	5-7Days	Egypt	5-7 Days
Turkey	5-7 Days	Singapore	3 Days	Switzerland	5-7 Days
Bahrain	5-7 Days	Latvia	7-10 Days	New Zealand	7-10 Days
Sri Lanka	5-7 Days	Thailand	3 Days	Austria	5-7 Days

Romania	5-7 Days	Vietnam	3-5 Days	Estonia	5-7 Days
Malaysia	3-5 Days	Israel	5-7 Days	Mexico	7-10 Days
France	5-7 Days	America	5-7 Days	United Arab Emirates	5-7 Days
Italy	5-7 Days	Netherlands	5-7 Days	Bengal	7-10 Days
Lebanon	5-7 Days	Philippine	3-5 Days	Greece	7-10 Days
South Korea	3 Days	Spain	5-7 Days	Myanmar	5-7 Days
Canada	5-7 Days	Germany	5-7 Days	Saudi Arabia	7-10 Days
Portugal	5-7 Days	Australia	5-7 Days	South Africa	7-10 Days
Denmark	5-7 Days	Belgium	5-7 Days	Ukraine	7-10 Days
India	7-10 Days	Qatar	7-10 Days	Poland	5-7 Days
Indonesia	3-5 Days	Morocco	7-10 Days	Pakistan	7-10 Days
Kuwait	7-10 Days	/		/	/

▲ The logistics time is for reference only , subjects are according to the actual arrival.

3.7. 0414799003 Common Rail EUP Pump Packing

Domestic express packaging: Usually wrapped in waterproof scotch tape, such as picture No.1.

International express packaging: Wrapped with waterproof yellow tape After wrapping the black protective film, such as picture No. 2.

Pallet Shipping: Use fumigation free and recycling trays that meet export requirements, and use white wrapping protective film to wrap and bind with cable ties for the outside, such as picture No. 3, also, the products can be packaged according to customers' requirements.

▲ The packing tray is made of plastic and can be recycled.

▲ Transparent tape, yellow tape, black wrapping protective film, white wrapping protective film are non-degradable materials, please dispose of them properly.

▲ Minors are prohibited from using transparent tape, yellow tape, black wrapping protective film, and white wrapping protective film to avoid personal injury.

No.	1	2	3
Image			
Name	Domestic Express Packaging	International Express Packaging	Pallet Shipping
Description	Wrapped by transparent tape	Wrapped with yellow tape after wrapping black protective film	Use pallet that meet export requirements, and use white wrapping protective film to wrap and bind with cable ties

Pallet Shipping: Use pallet that meet export requirements, and use white wrapping protective film to wrap and bind with cable ties.

4. 0414799003 Common Rail EUP Pump Storage Standard

(1) Choose a suitable storage place

The warehouse and cargo yard where the common rail EUP pump is stored should be kept clean and dry, and away from the factory buildings that generate harmful gases and dust; do not mix with acids, alkalis, salts and other substances; the storage place should have a good drainage system; the cargo yard should be flattened with gravel or furnace ash etc. to enhance the water permeability of the surface layer to keep the reservoir area dry.

(2) Strict requirements of warehousing

Strict inspections should be carried out when the common rail EUP pumps are put into storage, the surface cleaning work should be done well to remove water traces, oil stains, ash and other dirt, remove the rust and do anti-rust treatment in time. Packaged injectors must be protected from damage.

(3) Keep the warehouse dry and preventing moisture

The relative humidity is usually below 70% for the common rail EUP pumps placed in the room, and the corrosion of the common rail EUP pumps is significantly reduced.

common rail EUP pump s must be stored in the warehouse, and they are forbidden to store in the same warehouse with commodities with high water content.

(4) Stack Properly

After the common rail EUP pump is exposed to rain, the corrosion rate will increase significantly. The purpose of sealing is to isolate the common rail EUP pump from rainwater and humid air, so the warehouse window should be checked in time to avoid rainwater entering the warehouse

If the common rail EUP pump package is damaged, it should be repaired or replaced; when the package is damp, the packaging material should be dried; if the original anti-corrosion and oil applied at the factory is found to be damaged or dried up, it should be cleaned and re-applied oil in time.

- ▲ It is forbidden to leave the common rail EUP pump exposed in the air for a long time.
- ▲ It is forbidden to store acid, alkali, salt and other substances together with the common rail EUP pump.
- ▲ The unpacked common rail EUP pump must be rust-proof during secondary storage.

5. Company Information



5.1. Company Introduction

 **Mob Phone/WeChat:** +86-13410541523

 **HK Telephone:** +852-67653519

 **Telephone:** +86-755-23215133

 **Shenzhen Office:** 11-12, Floor 14, Building 13, Qinchengda Building, Exit A, Honglang North Subway Station, Bao'an District, Shenzhen, China's Mainland

 **Shenzhen Office:** Exit C, Qiao Touxu Metro Station, NO. 66 Chongqing Road, Fuhai Avenue, Bao'an District, Shenzhen, China Mainland

 **Hong Kong Office:** Jianfa Street Industrial Zone, Tuen Mun, New Territories, Hong Kong, China

 **After-sales Service Address:** Please contact our salesmen to obtain and provide the corresponding product maintenance reasons (Reference: [1.10. 0414799003 Common Rail EUP Pump Warranty Instructions](#))

5.2. Contact Information

Name	WeChat/WhatsApp
Ruby	+86-13410541523

6. Copyright Statement

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