

294191-0110 Fuel Pump Camshaft Technical File

SKU1: C1C102941910110

SKU2: L3D5D2941910110





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294191-0110 Fuel Pump Camshaft Technical File

1. 294191-0110 Fuel Pump Camshaft Introduction

1.1. 294191-0110 Fuel Pump Camshaft Basic Information

Title	294191-0110 HP3 Fuel Pump Camshaft	Quality
SKU1	C1C102941910110	Disassembled
SKU2	L3D5D2941910110	Disassembled

1.2. 294191-0110 Fuel Pump Camshaft Common Part Number

(1) Fuel Pump Camshaft Exchange Information

Fuel Pump Camshaft Part Number	Replacement Part Number
294191-0110	/

(2) Fuel Pump Camshaft Application Information

Fuel Pump Model	OE Number	Vehicle Brand	Engine Model
294000-0971	1460A038	/	/
294000-1071	1460A040	MITSUBISHI	4M41
294000-1210	8-97311373-9	ISUZU	4JJ1TC
294000-1240	1460A057	MITSUBISHI	4D56
294000-1250	1460A058	MITSUBISHI	4M41
294000-1260	1460A059	MITSUBISHI	4M41
294000-1270	1460A050	/	/
294000-1360	1460A052	MITSUBISHI	4M41
294000-1370	1460A053	MITSUBISHI	4D56
294000-1400	8-98155988-1	ISUZU	4JJ1
294000-1520	8-98151213-1	ISUZU	4JK1
294000-2330	1460A095	MITSUBISHI	4N15
294000-2340	1460A096	MITSUBISHI	4N15
294000-2350	1460A097	MITSUBISHI	4D56

(3) Fuel Pump Camshaft Part Number Common Writing

294191-0110

1.3. 294191-0110 Fuel Pump Camshaft Parameter

Adaptation System: Common Rail System

Fuel Pump Camshaft Series: HP3

Fuel Pump Camshaft Type: High Pressure Common Rail Fuel Pump Camshaft

1.4. 294191-0110 Fuel Pump Camshaft Specifications and Dimensions

Fuel Pump Camshaft Size: 10cm* 2cm *1cm

Fuel Pump Camshaft Net Weight: 150g

Fuel Pump Camshaft Gross Weight: 300g

Fuel Pump Camshaft Quality: **Disassembled**

Fuel Pump Camshaft Package Size: **15cm*3 cm *2 cm**

Fuel Pump Camshaft MOQ: **1 Pieces**

1.5. **294191-0110 Fuel Pump Camshaft Quality Control**

(1) **Fuel Pump Camshaft Testing**

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

(2) **Fuel Pump Camshaft Assembling**

For the quality control of the fuel pump camshaft production and installation process, our company strictly follows the standard product installation data and product installation steps to install, such as fuel pump camshaft stroke test, fuel pump camshaft fatigue spring test.

(3) **Fuel Pump Camshaft Inspection**

The factory inspection of the fuel pump camshaft is undergone full inspection, random inspection, and batch inspection three inspections. Different brands of test benches are used to test the same fuel pump camshaft for more than three times for factory inspection, and the fuel pump camshaft installation testing environment are progressed in dust-free workshop.

1.6. **294191-0110 Fuel Pump Camshaft Customized Service**

(1) **Fuel Pump Camshaft's Customized Service Coverage:** Meet the customized needs of OEM manufacturers for shell lettering, logo engraving, fuel pump camshaft internal packaging, fuel pump camshaft external packaging and labels customized, etc.



White Neutral Packaging Box

(2) **Fuel Pump Camshaft's Customized Service Requirements:**

The quantity of customized fuel pump camshafts shall not be less than **10 pieces**.

The quantity of customized fuel pump camshaft packages shall not be less than **1000 pieces**.

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 fuel pump camshaft is sold, it cannot be returned or exchanged if there is no quality problem.**

1.7. 294191-0110 Fuel Pump Camshaft Packing List and Package Size

(1) Fuel Pump Camshaft Spare Parts List

No.	1	2	3
Image			
Name	Fuel Pump Camshaft Assy	White Bubble Wrap	Anti-rust Bag
Description	Fuel pump camshaft assy number: 294191-0110	Prevent fuel pump camshaft from being damaged by external forces	Prevent fuel pump camshafts from rusting

⚠ Minors are forbidden to use the fuel pump camshaft assembly, O-ring, nozzle protective cover, fuel fuel pump camshaft housing protective cover, oil return protective cover, VCI anti-rust bag, and air bubble bag to avoid personal injury.

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

⚠ The fuel pump camshaft and the installation parts should be coated with appropriate sealing oil during installation.

(2) Fuel Pump Camshaft Box Size



No.	Name	Fuel Pump Camshaft Package Size (cm)
1	Fuel Pump Camshaft Box	15*3*2

1.8. 294191-0110 Fuel Pump Camshaft Testing Standard and Certificate

Shumatt can provide the factory quality inspection test report of each fuel pump camshaft to ensure that each delivered fuel pump camshaft meets the engine performance indicators.

1.9. 294191-0110 Fuel Pump Camshaft Warranty Instructions

It is necessary to provide pictures, videos, or test reports detected by the fuel pump camshaft inspection equipment when the fuel pump camshaft 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.

Within 15 days after customer receives the 294191-0110 fuel pump camshaft, if there is a performance failure and the product has no appearance damage, customer can choose to replace it or repair it;

If the 294191-0110 fuel pump camshaft 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;

If the fuel pump camshaft 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.

① The warranty period has expired.

② Fuel pump camshaft failure caused by high temperature, high pressure, humidity, rain and snow, sea-alkali land, earthquake, and used in abnormal environment.

- ③ Customer disassembles or repairs the fuel pump camshaft personally resulting in damage to the fuel pump camshaft.
- ④ Fuel pump camshaft damage caused by man-made reasons (throwing, strong magnetic field magnetization, set fire).
- ⑤ Fuel pump camshaft failure or fuel pump camshaft damage caused by non-fuel pump camshaft design, technology, manufacturing, quality, and other issues.
- ⑥ Fuel pump camshaft failure due to system pressure exceeding system approved pressure.
- ⑦ Fuel pump camshaft failure caused by system voltage exceeding approved voltage.
- ⑧ Fuel pump camshaft failure caused by impurities (water, lead, aluminum powder, iron powder, sulfide) in the system fuel exceeding the standard requirements.
- ⑨ Fuel pump camshaft 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 Fuel pump camshaft failure caused by not following the installation angle specified in the vehicle engine maintenance manual.
- 11 Fuel pump camshaft failure caused by not following the cleaning requirements specified in the vehicle engine maintenance manual.
- 12 Fuel pump camshaft failure caused by failure to replace consumable parts as specified in the vehicle engine maintenance manual.
- 13 Fuel pump camshaft 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 fuel pump camshaft connection in accordance with the fuel intake system specified in the vehicle engine maintenance manual.

1.10. 294191-0110 Fuel Pump Camshaft Manufacturer

Fuel Pump Camshaft's Manufacturer: Shenzhen Shumatt Technology Co., Ltd

2. 294191-0110 Fuel Pump Camshaft Technical Support

2.1. 294191-0110 Fuel Pump Camshaft Part Number Location

- 1) E.g.: See the fuel pump camshaft part number as follows

No.	Name
A	Bran, logo, coding

2.2. 294191-0110 Fuel Pump Camshaft Installation

(1) 294191-0110 Fuel Pump Camshaft Installation Precautions:

⚠ The replacement of the fuel pump camshaft 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.

⚠ Strictly follow the operation manual of replacement of wearing parts of the fuel system, cleaning

requirements for the connection between the fuel system and the fuel pump camshaft, the fitting clearance of the fuel pump camshaft connection, the installation angle and tightening torque of the fuel pump camshaft, the fitting clearance of the intake system, and the fitting clearance of the exhaust system, so that to ensure the service life of the engine and the normal operation of the fuel pump camshaft.

⚠ When installing the fuel pump camshaft on the engine, it is necessary to clean the engine block, cylinder head and other parts connected to the fuel pump camshaft, and ensure that there is no dust, carbon deposits, water, rust spots, etc.

⚠ When installing the fuel pump camshaft on the engine, please carefully check the components related to the installation of the fuel pump camshaft to ensure they are not deformed, such as the fuel pump camshaft pressure plate, screw, fuel pump camshaft rod and other accessories, and install it in strict accordance with the operation steps of the engine maintenance manual.

⚠ It is forbidden to operate the bare fuel pump camshaft for a long time in an environment with serious dust pollution and corrosion to iron products.

⚠ It is forbidden to operate the bare fuel pump camshaft for a long time in a strong magnetic field environment.

2.3. **294191-0110 Fuel Pump Camshaft Reasons for Not Working Normally**

- (1) There is air in the oil circuit of the engine fuel system.
- (2) Vehicle fuel pump camshaft fuel supply system is abnormal.
- (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 fuel pump camshaft of the vehicle.
- (5) The long-term placement of the fuel pump camshaft 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 fuel pump camshaft are damaged to prevent the fuel pump camshaft from not working properly after being replaced.

2.4. **294191-0110 Fuel Pump Camshaft Causes of Being Damaged**

- (1) Didn't operate properly according to engine maintenance manual during disassembly or installation, resulting in damage to the fuel pump camshaft.
- (2) The fuel oil used for the vehicle does not meet the standard cause damage to the fuel pump camshaft, 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 fuel pump camshaft.

- (4) The abrasion of the fuel pump camshaft produces iron powder and aluminum powder enter the fuel pump camshaft and cause damage to the fuel pump camshaft.
- (5) The deformation and abrasion of fuel tank result in iron powder or aluminum powder entering the fuel pump camshaft and causing damage to the fuel pump camshaft.
- (6) The fuel pump camshaft is damaged due to replacement or adjustment of the relevant parts of the fuel pump camshaft. 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 fuel pump camshaft fails to meet the original standard.
- (7) The engine is overheated and overloaded for a long-time working result in damage to the fuel pump camshaft.
- (8) The fuel pump camshaft will be damaged naturally at the end of its working life.
- (9) The fuel pump camshaft is magnetized (fuel pump camshaft parts' magnetic exceeded) causing the fuel pump camshaft to not work properly.

⚠ Before replacing the fuel pump camshaft, please check the engine parts carefully according to the engine maintenance manual to avoid the fuel pump camshaft being damaged again after replacement.

2.5. 294191-0110 Fuel Pump Camshaft Technical Support Obtaining Methods

- (1) Fuel Pump Camshaft Technical File , visit <http://shumatt.com> to get the technical file.
- (2) Fuel Pump Camshaft Technical Videos

Facebook: Visit <https://www.facebook.com/hison.li> to get the technical videos, constantly follow can get more information.

YouTube: https://www.youtube.com/channel/UCByvYBx7VjV_mAfxh_Hu-aw to get the technical videos, constantly follow can get more information.

Shumatt: Visit <http://shumatt.com> to get the technical videos.

- (3) Fuel Pump Camshaft Information Query Software

TruckBook Parts EPC APP, Android/Apple App Store download and install, visit <http://shumatt.com> to get the download and installation tutorial

- (4) Search The fuel pump camshaft test data through TruckBook Parts EPC APP.

3. 294191-0110 Fuel Pump Camshaft Purchase and Delivery

3.1. 294191-0110 Fuel Pump Camshaft Purchase Payment Term

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

⚠ Please contact our salesmen for specific payment information.

3.2. 294191-0110 Fuel Pump Camshaft Main Sales Markets

Fuel pump camshaft main sales markets: Asia, Europe, North America, South America, Africa etc.

3.3. 294191-0110 Fuel Pump Camshaft Declaration Requirements

Shumatt 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. 294191-0110 Fuel Pump Camshaft 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. 294191-0110 Fuel Pump Camshaft Lead time

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

3.6. 294191-0110 Fuel Pump Camshaft 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 and is subject to the actual arrival.

3.7. 294191-0110 Fuel Pump Camshaft 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.

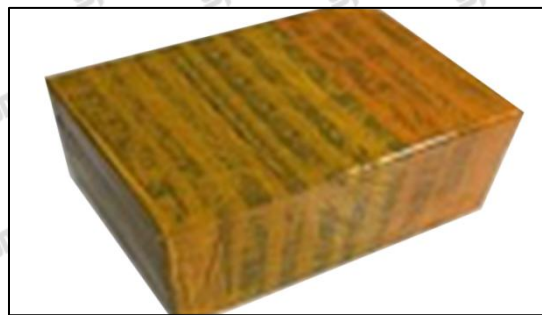
⚠ Minors are prohibited from using transparent tape, yellow tape, black wrapping protective film, and white wrapping protective film to avoid personal injury.



Pic No. 1

Domestic express packaging:

Wrapped with Transparent tape



Pic No. 2

International express packaging:

Wrapped with yellow tape after wrapping black protective film



Pic No. 3

Pallet Shipping: Use pallet that meet export requirements, and use white wrapping protective film to wrap

and bind with cable ties

4. 294191-0110 Fuel Pump Camshaft Storage Standard

(1) Choose a suitable storage place

The warehouse and cargo yard where the fuel pump camshaft 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, alkali, salt 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 fuel pump camshafts 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 fuel pump camshafts must be protected from damage.

(3) Keep the warehouse dry and preventing moisture

The relative humidity is usually below 70% for the fuel pump camshafts placed in the room, and the corrosion of the fuel pump camshafts is significantly reduced.

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

If the fuel pump camshaft 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 fuel pump camshaft exposed in the air for a long time.



It is forbidden to store acids, alkali, salt, and other substances together with the fuel pump camshaft.



The unpacked fuel pump camshaft must be rust-proof during secondary storage.

5. Company Information



Office Locations



Global Exhibitions

5.1. Company Introduction

Chinese Name: 深圳市舒马特科技有限公司

English Name: Shenzhen Shumatt Technology Co., Ltd



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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: [1.9. 294191-0110 Fuel Pump Camshaft Warranty Instructions](#))

5.2. Sales-men's Contact Information

No.	Name	WeChat/WhatsApp	Email
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Mob/WhatsApp: +86 13410541523

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Tel: +8675523215133

Website : www.shumatt.com

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