

5491600 Diesel Injector Technical File

SKU: G1K30005491600



M11INJECTOR

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5491600 Diesel Injector Technical File

1. 5491600 Diesel Injector Introduction

1.1. 5491600 Diesel Injector Basic Information

Title	5491600 Diesel Injector XPI Series	Quality
SKU	G1K30005491600	Re-manufactured

1.2. 5491600 Diesel Injector Common Part Number

(1) Diesel Injector Exchange Information

Diesel Injector Part Number	Universal Part Number	Universal Part Number
5491600	/	/

(2) Diesel Injector Application Information

Vehicle Brand	Car Model	Engine Number
/	/	/

(3) Diesel Injector's Common Writing Methods

5491600

1.3. 5491600 Diesel Injector Parameters

Adaptation System: [Common Rail System](#)

Diesel Injector Series: [XPI Series](#)

Diesel Injector Type: [Electromagnetic](#)

1.4. 5491600 Diesel Injector Specifications And Dimensions

Diesel Injector Size: [29cm* 11cm *6cm](#)

Gross Weight: [1200g](#)

Package Weight: [1290g](#)

Diesel Injector Quality: [Re-manufactured](#)

Package Size: [31cm* 13cm *8cm](#)

Diesel Injector Type: [High Pressure Common Rail Injector](#)

MOQ: [4 piece](#)

1.5. 5491600 Diesel Injector Quality Control

(1) Diesel Injector Testing

All parts of the diesel injector have undergone electrical characteristics testing, precision testing, high temperature testing, low temperature testing, withstand pressure testing, leakage testing, durability testing, and various working conditions testing.

(2) Diesel Injector Installation

In addition, the diesel injector production and installation process is quality controlled. Our company

strictly follows the standard product installation data and product installation steps for installation, such as diesel injector stroke test, diesel injector solenoid valve tightening torque, diesel injector tightening torque.

(3) Diesel Injector Inspection

The factory inspection of the diesel injector has undergone three inspections: full inspection, random inspection, and batch inspection. Different brands of test benches are used to test the same diesel injector for a total of no less than three times for factory inspection, and the fuel injector installation testing environment are progressed in dust-free workshop.

1.6. 5491600 Diesel Injector Customization Service

(1) **Diesel Injector Customization Service Coverage:** Meet OEM manufacturers' customization needs for shell engraving, logo engraving, diesel injector internal packaging, diesel injector external packaging and labels, etc.

NO.	1	2
Picture		
Name	Diesel Injector Shell Engraving	Diesel Injector packaging box and label

(2) Diesel Injector Customization Service Requirements:

The purchase of customized diesel injector is no less than 10 pieces.

The purchase of customized diesel injector boxes is no 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 diesel injector is sold, it can't be returned or exchanged if there is no quality problems.

1.7. 5491600 Diesel Injector Packaging List And Packaging Dimensions

(1) Diesel Injector Parts List

NO.	1	2	3
Picture			
Name	Diesel Injector Assembly	Anti-Rust Paper	Anti-Rust Bag
Description	Diesel Injector part number: 5491600	Prevent diesel injector from rusting	Prevent diesel injector from rusting
NO.	4	5	6

Picture			/
Name	Lining	Diesel Injector Packaging Box	/
Description	Prevent the diesel injector from being damaged by external forces	Place the diesel injector and accessories	/

⚠ Minors are prohibited from using the diesel injector assembly, O-ring, Oil inlet protective cover, diesel injector shell protective cover, oil return protective cover, VCI anti-rust bag, and bubble bag to avoid personal injury.

⚠ O-rings and repair kits are one-time installation accessories and need to be replaced when installed again

⚠ Oil inlet protective cover, diesel injector shell protective cover, and oil return protective cover are recyclable accessories and can be reused.

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

⚠ The diesel injector and the installation part duct must be treated with appropriate sealing oil during installation.

(2) Diesel Injector Packaging Box Size



NO.	Name	Diesel Injector Packaging Size (cm)
1	Diesel Injector Packaging Box	31*13*8

1.8. 5491600 Diesel Injector Testing Standards and Certificates

www.m11injector.com can provide the factory quality inspection test report of each diesel injector to ensure that each diesel injector delivered meets the engine performance indicators.

BOTEN		测试报告		4.05.2019 10:42:09																																	
承办单位: _____ 电话: _____ 地址: _____ 传真: _____ 检测人: _____ 客户地址: _____ 电话: _____ 送检单位: _____ 传真: _____ 客户姓名: _____ 检测项目: _____ 检测名称: _____ 型号-零件号: _____ 检测地点: _____																																					
检测结果																																					
检测标准号: C091002-5511 <table border="1"> <thead> <tr> <th>检测项目</th> <th>检测结果</th> <th>标准值</th> <th>判定</th> </tr> </thead> <tbody> <tr> <td>USAR TEST:</td> <td>32</td> <td>4</td> <td>OK</td> </tr> <tr> <td>Exh:</td> <td>32</td> <td>4</td> <td>OK</td> </tr> <tr> <td>WARM:</td> <td>32</td> <td>125.3±10.5</td> <td>OK</td> </tr> <tr> <td>Max:</td> <td>291.5</td> <td>218.5±14.4</td> <td>OK</td> </tr> <tr> <td>TL:</td> <td>18.4</td> <td>25.6±8.5</td> <td>OK</td> </tr> <tr> <td>EL:</td> <td>14.1</td> <td>15.1±4.8</td> <td>OK</td> </tr> <tr> <td>VE:</td> <td>62</td> <td>4.5±1.6</td> <td>OK</td> </tr> </tbody> </table>						检测项目	检测结果	标准值	判定	USAR TEST:	32	4	OK	Exh:	32	4	OK	WARM:	32	125.3±10.5	OK	Max:	291.5	218.5±14.4	OK	TL:	18.4	25.6±8.5	OK	EL:	14.1	15.1±4.8	OK	VE:	62	4.5±1.6	OK
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检测日期: _____ 检测人: _____ 检测地点: _____																																					

1.9. 5491600 Diesel Injector Warranty Instructions

(1) Product Warranty Conditions And Instructions

It is necessary to provide pictures, videos, or test reports tested by the diesel injector inspection equipment when the diesel injector 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) Diesel Injector Warranty Coverage

- ① After customer receives the 5491600 diesel injector within 15 days , if there is a performance failure and the product has no damage on surface, customer can choose to replace it or repair it;
- ② If the 5491600 diesel injector has performance problems during the warranty period (6-12 months), and it is confirmed to be product's problems after being tested, you can contact our salesmen to replace the same model or a reworked product with the same performance for free;
- ③ If the diesel injector shell 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) Diesel Injector Is Not Covered By Warranty

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

2. 5491600 Diesel Injector Technical Support

2.1. 5491600 Diesel Injector Utilized Location

(1) Example: The code of the diesel injector is shown as follows

NO.	Name
A	Brand, logo, part number



2.2. 5491600 Diesel Injector Installation

(1) 5491600 Diesel Injector Installation Precautions:

(1) The replacement of the diesel injector 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) When install the diesel injector, strictly follow the manual of replacement of wearing parts of the fuel system, cleaning requirements for the connection between the fuel system and the diesel injector, the fitting clearance of the diesel injector connection, the installation angle and tightening torque of the diesel injector, 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 diesel injector.

(3) When installing the diesel injector on the engine, it is necessary to clean the engine block, cylinder head and other parts connected to the diesel injector, and ensure that there is no dust, carbon deposits, water, rust spots, etc.

(4) Before installation, check whether the injector nozzle sealing gasket has been replaced and installed on the injector.

(5) When installing the injector, lubricant should be applied between the injector, nozzle sealing gasket, and O-ring.

(6) If don't replace new washer shim, it can lead to: deformation of diesel injector, oil leakage and air leakage, which will cause serious damage to the diesel injector and diesel injector to break and cause damage to the engine.

(7) When installing the diesel injector on the engine, please carefully check the components related to the installation of the diesel injector are not deformed, such as the diesel injector pressure plate, screw, diesel injector rod and other accessories, and install it in strict accordance with the operation steps of the engine maintenance manual.

(8) It is forbidden to operate the bare diesel injector for a long time in an environment with serious dust pollution and corrosion to iron products.

(9) It is forbidden to operate the bare diesel injector for a long time in a strong magnetic field environment.

2.3. Reasons of 5491600 Diesel Injector Not Working Normally

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

2.4. Causes of 5491600 Diesel Injector Being Damaged

- (1) Failure to follow the engine maintenance manual during disassembly or installation may result in damage to the diesel injector.
- (2) The fuel oil used for the vehicle does not meet the standard cause damage to the diesel injector, 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 diesel injector.

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

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

2.5. 5491600 Diesel Injector Technical Support Obtaining Methods

- (1) Diesel Injector Technical Data: <https://www.m11injector.com/download/>
- (2) Diesel Injector Technical Videos: <https://www.m11injector.com/videos/>
- (3) Diesel Injector Encyclopedia: <https://www.m11injector.com/category/news/encyclopedia/>

3. 5491600 Diesel Injector Purchase And Delivery

3.1. 5491600 Diesel Injector Purchase And Payment Term

Payment Method: T/T, Paypal, Alipay, WeChat

⚠ Please contact our salesmen for specific payment information.

3.2. 5491600 Diesel Injector Main Sales Markets

Main Sales Markets Of Diesel Injector: Asia, Europe, North America, South America, Africa etc.

3.3. 5491600 Diesel Injector Declaration Requirements

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

3.4. 5491600 Diesel Injector 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. 5491600 Diesel Injector Delivery Time

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

3.6. 5491600 Diesel Injector Logistics Time for Destination Out of China's Areas

DHL Logistics Time:

Place Of Departure	Hong Kong	Other Countries Or Regions In Asia	Australia and New Zealand	Europe	America	Other Countries
China Mainland	7 Days	7 Days	8 Days	8 Days	8-12 Days	7-10 Days

UPS Logistics Timeliness: Country or region of origin: Mainland China

Country of Destination	Estimated Arrival Time	Country of Destination	Estimated Arrival Time	Country of Destination	Estimated Arrival Time
Japan	3 Days	Britain	5-7 Days	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	USA	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	Philippines	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. 5491600 Diesel Injector Shipping Package

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.

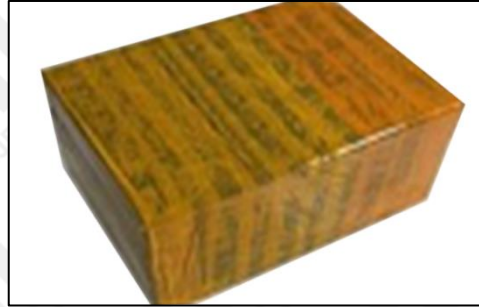
⚠ Minors are prohibited from using transparent tape, yellow tape, black wrapping protective film, and white wrapping protective film to avoid personal injury.



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. 5491600 Diesel Injector Storage Standards

(1) Choose a suitable storage place

The warehouse and cargo yard where the diesel injectors are stored should be kept clean and dry, and away from the factory buildings that generate harmful gases and dust; do not mix with acid, 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 storage requirements

Strict inspections should be carried out when the diesel injectors 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 diesel injectors must be protected from damage.

(3) Keep the warehouse dry and do moisture-proof work

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

Diesel injectors must be stored in the warehouse, and they are forbidden to store in the same warehouse with commodities with high water content.

(4) Reasonable stacking

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

If the diesel injector 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 diesel injector exposed in the air for a long time.
- ⚠ It is forbidden to store acid, alkali, salt and other substances together with the diesel injector.
- ⚠ The unpacked diesel injector must be rust-proof during secondary storage.

5. Company Information



5.1. Company Introduction

📞 Mobile Phone/WeChat: +86-13410541523

 **Hong Kong Mobile Phone:** +852-67653519

 **Tel:** +86-755-23215133

 **Shenzhen Office:** 11-12, Floor 14, Building 13, Qinchengda Building, Exit A, Honglang North Subway Station, Bao'an District, Shenzhen, China 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: [1.9. 5491600 Diesel Injector Warranty Instructions](#))

5.2. Contact Information

Name	WeChat/Whatsapp
Ruby	+86-13410541523

6. Copyright Statement

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