

TOP  
NOZZLE

CRDI Injector Nozzle L357PBC Technical Data  
SKU1:G1H1400L357PBC  
SKU2:G1X1000L357PBC



# NOZZLE

COMMON RAIL INJECTOR PARTS

# CRDI Injector Nozzle L357PBC Technical Data

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## CRDI Injector Nozzle L357PBC Technical Data

### 1. CRDI Injector Nozzle L357PBC Introduction

#### 1.1. CRDI Injector Nozzle L357PBC Basic Information

Title	China Made New Diesel Common Rail CRDI Injector Nozzle L357PBC	Quality
SKU1	G1H1400L357PBC	China Made New
SKU2	G1X1000L357PBC	China Made New

#### 1.2. CRDI Injector Nozzle L357PBC Common Written Part Number

Injector Nozzle Order Number	Injector Nozzle Engraved Number
/	L357PBC

#### 1.3. CRDI Injector Nozzle L357PBC Application Information for Injectors

##### 1) CRDI Injector Nozzle L357PBC Application for Injectors Part Number

Injector Part Number	Replace Part Number	OEM	OEM
/	/	/	/

##### 2) CRDI Injector Nozzle L357PBC Car Model Matching Information

Car Number	Manufactured
/	/

##### 3) CRDI Injector Nozzle L357PBC Part Number Common Writing

L357PBC,357PBC,357,L357

#### 1.4. CRDI Injector Nozzle L357PBC Specifications and Dimensions Parameters

Injector Nozzle Size: 6 cm\*1.5cm \*1.5 cm

Injector Nozzle Tube Size: 7 cm \*2 cm \*2 cm

Injector Nozzle Net Weight: 0.03kg

Injector Nozzle Box Size (10 PCS/Box): 10 cm \*8 cm \*4cm

Injector Nozzle Gross Weight (10 PCS/Box) : 0.3kg

Injector Nozzle Quality: China Made New Injector Nozzle

Injector Nozzle MOQ: 10 PCS

#### 1.5. CRDI Injector Nozzle L357PBC Quality Control

##### 1) Injector Nozzle Testing

All parts of the injector nozzle are subjected to precision testing, high temperature testing, low temperature testing, withstand pressure testing, leakage testing, durability testing, and various working conditions testing.

##### 2) Injector Nozzle Inspection

The factory inspection of the injector nozzle is undergone full inspection, random inspection, and batch inspection three inspections. Different brands of test benches are used to test the same injector nozzle 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.

##### 3) Injector Nozzle Installation

When matching the valve cap and valve steam, Shumatt strictly complies with the standard of valve cap and valve stem clearance technical indicators to ensure that each valve assembly meets the factory standards and use standards.

#### 1.6. CRDI Injector Nozzle L357PBC Customized Service

1) **Injector Nozzle's Customized Service:** Meet the customized needs of OEM manufacturers for shell lettering (logo, nozzle part number, date and series number), nozzle without lettering, nozzle tube,



nozzle box customized etc.

	
Injector Nozzle Shell Lettering Customized	Injector Nozzle Without lettering Customized
	
Injector Nozzle Tube Customized (Grey Cover)	Injector Nozzle Tube Customized (Red Cover)
	
Injector Nozzle Packaging Box Customized (Xingma)	Injector Nozzle Packaging Box Customized (Liwei)

## 2) Injector Nozzle's Customized Service Quantity Requirements:

The purchased of Customized injector nozzle's shell lettering or without lettering are no less than 100 pieces.

The purchased of Customized injector nozzle tubes are no less than 2000-3000 pieces.

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

### 1.7. CRDI Injector Nozzle L357PBC Packing List

#### 1) Injector Nozzle's Spare Parts List

No.	1	2	3
Image			
Name	Injector Nozzle Assy	Nozzle Tube (Grey Cover)	Nozzle Tube (Red Cover)
Description	Injector Nozzle Part Number L357PBC	Prevent Nozzle Rusting and Damaging from Collision	Prevent Nozzle Rusting and Damaging from Collision
No.	4	5	/
Image			/
Name	Injector Nozzle Box (Xingma)	Injector Nozzle Box (Liwei)	/
Description	10 PCS/Box	10 PCS/Box	/

- ⚠ Minors are prohibited to use fuel injector nozzle assembly, nozzle packing box to avoid injury.
- ⚠ Injector nozzle box is recyclable and can be reused.
- ⚠ Injector nozzle barrels is non-degradable material, please dispose of it properly after use.

### 1.8. CRDI Injector Nozzle L357PBC Warranty Instructions

#### 1) Injector Nozzle's Warranty Conditions and Instructions

- ① It is necessary to provide pictures, videos, or test reports detected by the injector nozzle inspection equipment when the injector nozzle is abnormal during use as evidence to feed back to the salesman.
- ② 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) Injector Nozzle Warranty Coverage

- ① After receiving the CRDI Injector Nozzle L357PBC within 15 days, if there is a performance failure and the product has no appearance damage, you can choose to replace it or repair it;
- ② If the CRDI Injector Nozzle L357PBC 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 injector nozzle has obvious scratches on the surface, it can only be repaired and it will be returned as it is if the product is confirmed to be fault-free.

#### 3) Injector Nozzle Out of Warranty Coverage

- ① The injector nozzle's warranty period has expired.
- ② Injector nozzle failure caused by high temperature, high pressure, humidity, rain and snow, saline-alkali land, earthquake, and used in abnormal environment.
- ③ Injector nozzle damage caused by man-made reasons (throwing, strong magnetic field magnetization, set fire).
- ④ Injector nozzle failure or injector damage caused by non-injector design, technology, manufacturing, quality and other issues.
- ⑤ Injector nozzle failure due to system pressure exceeding system approved pressure.
- ⑥ Injector nozzle failure caused by system voltage exceeding approved voltage.

- ⑦ Injector nozzle failure caused by impurities (water, lead, aluminum powder, iron powder, sulfide) in the system fuel exceeding the standard requirements.
- ⑧ Injector nozzle 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).
- ⑨ Injector nozzle failure caused by not following the installation angle specified in the injector maintenance manual.
- ⑩ Injector nozzle failure caused by not following the cleaning requirements specified in the injector maintenance manual.
- 11 Injector nozzle failure caused by failure to replace consumable parts as specified in the injector maintenance manual.

### 1.9.CRDI Injector Nozzle L357PBC Manufacturer

Manufacturer: Shenzhen Shumatt Technology Co., Ltd

### 2.CRDI Injector Nozzle L357PBC Purchase and Delivery.

#### 2.1.CRDI Injector Nozzle L357PBC Purchase Payment Methods

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

Please contact our salesmen for specific payment information.

#### 2.2.CRDI Injector Nozzle L357PBC Main Sales Market.

Injector Nozzle's Main Sales Markets: Asia, Europe, North America, South America, Africa etc.

#### 2.3.CRDI Injector Nozzle L357PBC 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.

#### 2.4.CRDI Injector Nozzle L357PBC 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.

#### 2.5.CRDI Injector Nozzle L357PBC Lead Time

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

#### 2.6.CRDI Injector Nozzle L357PBC 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	5-7 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	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.

## 2.7.CRDI Injector Nozzle L357PBC 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

**Domestic express packaging:** Wrapped by 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

### 3. CRDI Injector Nozzle L357PBC Technical Support

#### 3.1. CRDI Injector Nozzle L357PBC Installation Precautions

- 1) Clean the injector nozzle in an ultrasonic cleaner for 3-5 minutes before installation, so as to make the stains, dust, rust-proof oil oxides, paraffin base, naphthenic base, intermediate base, salt, lead naphthenate, zinc naphthenate, sodium petroleum sulfonate, barium petroleum sulfonate, calcium petroleum sulfonate, tallow diamine trioleate, rosinamine on the surface of the injector nozzle fall off.
- 2) Use compressed air to clean the cleaning fluid attached to the surface of the injector nozzle after cleaning, and clean it up to the standard of use.

#### 3.2. CRDI Injector Nozzle L357PBC Inspection.

- 1) Check whether there is deformation, cracking, thread damage, quenching, leakage and rust in the guide sleeve, spring, gasket and tight cap of the nozzle. The tight cap of the nozzle must be replaced after being disassembled for more than 5 times, as shown in the following.



- 2) Replace the tight cap of the nozzle and the copper gasket of the injector nozzle
- 3) Check whether the gap between the nozzle needle and the nozzle shell is within the standard range and whether it reaches the standard for use



- ⚠ All parts should be examined for wear under a microscope at least 20 times larger
- ⚠ Nozzle tight cap deformation, cracking, thread damage, quenching, leakage, will lead to black smoke vehicle cap, fuel injector damage.
- ⚠ Injector opening pressure greater than or less than the specified range may cause injector damage.
- ⚠ Failure to replace wearing parts in time during maintenance may lead to fuel injector damage.

### 3.3.CRDI Injector Nozzle L357PBC Test Measurement

#### 1) Nozzle opening pressure test

Test whether the opening pressure range of the nozzle is within the range specified in the injector maintenance manual (**to be verified**), if not within the normal range, adjust the nozzle spring to adjust the gasket

- ⚠ If the value is greater than normal, reduce the oil nozzle spring adjusting gasket; if the value is less than normal, increase the oil nozzle spring adjusting gasket.

#### 2) Stroke Measurement of Nozzle Needle Valve

Use a measuring tool to measure whether the stroke of the nozzle needle valve is within the range (**15-45um**) specified in the injector maintenance manual. If not, adjust the stroke of the nozzle to adjust the gasket.



- ⚠ If the value is greater than normal, thicken the gasket for oil-nozzle needle valve lift adjustment; if the value is less than normal, reduce the gasket for oil-nozzle needle valve lift adjustment

### 3.4.CRDI Injector Nozzle L357PBC Installation

#### 1) Tightening torque of injector nozzle

The torque lever and tightening moment specified in the injector maintenance manual must be installed when the injector nozzle is installed. (**50Nm**)



⚠ The tightening torque of the nozzle cap must be installed in accordance with the tightening torque specified in the injector maintenance manual

### 3.5.CRDI Injector Nozzle L357PBC Testing After Maintenance

1) After installation, it needs to be tested on the test bench.



⚠ The correct injector type should be selected for testing

2) The test results need to be ensured that the following items are within the standard data range of the test stand.

#### **LEAK TEST: Test whether sealing test is up to standard or not**

In this step, no injector collector should be installed at the nozzle during the test so as to observe whether the nozzle is dripping oil, meanwhile observe that all joints are no oil leaking.

The static oil return of the test should not exceed 8mm<sup>2</sup>/H, otherwise, you need to check whether the high-pressure sealing ring, valve assembly, and stroke parameters of the injector are within the standard range.

#### **VL: Test whether full load oil (main injection, high speed) is up to standard or not**

This step needs to be combined with vehicle driving conditions, such as power, fuel consumption and smoke as well as the maintenance of the engine, if there is situation of insufficient power, fuel consumption is high, thick black smoke and irregularly maintenance of the engine, the engine needs to be maintained according to the maintenance handbook at very first time.

Each of injector part needs to be adjusted and checked if there is any damage according to above

situations to ensure the injector is normal. After make sure the injector works normal, you need to reduce the armature stroke if too much oil injection, and increase the armature stroke if too little oil injection.

The error of each injector should be controlled in 6mm<sup>3</sup>/HH when adjusting.

**TL\EM: Test whether the torque point, emission point, exhaust limit, fuel supply reach standard or not**

Through this test, it is detected that when the oil injection is too little, the engine's acceleration is slow, vice versa, when the oil injection is too much, the engine's acceleration will produce black smoke and the engine excessive exhaust emissions.

Injector nozzle spring force gasket, armature stroke, lift gasket and solenoid valve spring force gasket determine whether exhaust restriction and injector fuel supply reach standard.

**LL: Test if the idle fuel supply reaches the standard**

This test detects oil injection is too much will cause engine idle smoke, otherwise if the oil injection too little will cause engine idling easy to stall, or difficult to start.

The uneven of oil injection causes the unstable rotation speed of engine , making noise, and increase the engine swing in the acceleration process.

Each injector error should be controlled within 2mm<sup>3</sup>/HH when adjusting.

Idle speed fuel supply quantity mainly by adjusting the nozzle spring force gasket.

**VE: Test whether the pre-injection meets the standard**

This test detects when oil injection is too much will cause cylinder knocking while the engine is working and the exhaust emissions is not up to standard (smoke).

While when oil injection is too little will cause big noise while the engine is working, the engine is difficult to start, the engine weak acceleration, slow response of injector.

Each injector error should be controlled within 0.5mm<sup>3</sup>/HH when adjusting.

### 3.6.CRDI Injector Nozzle L357PBC List of Tools Used During Measurement and Installation

Image		
SKU	CRT084	CRT220
Description	Torque wrench: 19-110nm 1/2 It is used to control tightening force and angle during installation	Fuel injector stroke measuring tool: is used to measure buffer stroke of fuel injector, armature stroke and remaining air gap
Image		



SKU	CRT079	
Description	Micrometer: is used to measure gasket thickness	Ultrasonic cleaning machine: is used for cleaning fuel injector and parts
Image		/
SKU	CRT281	/
Description	Common rail injector test bench: check the injector working condition	/

### 3.7. CRDI Injector Nozzle L357PBC Causes of Damage

- 1) Fuel injector nozzle failure caused by impurities (water, lead, aluminum powder, iron powder, sulfide) in fuel exceeding standard requirements.
  - 2) The nozzle is normally worn due to long time working under high temperature
  - 3) Nozzle needle wear leads to oil hole blockage, insufficient fuel injection injector cannot work properly.
- ⚠ Nozzle needle wear leads to oil hole blockage, insufficient fuel injection injector can't work properly.
- ⚠ The wear of the nozzle leads to the increase of fuel quantity, resulting in black smoke of the vehicle, and the fuel injector can't work properly when it is serious.
- ⚠ If the nozzle needle can't move smoothly stuck may cause serious damage to the injector nozzle
- ⚠ The rusting of the nozzle spring leads to spring fracture and black smoke from the vehicle.
- ⚠ The opening pressure of the nozzle decreases, and the oil quantity of the injector increases, leading to black smoke of the vehicle, and the injector can't work properly when it is serious.
- ⚠ Oil-nozzle needle valve lift adjustment gasket wear oil-nozzle needle valve stroke becomes larger, the fuel injector oil quantity becomes larger, resulting in black smoke of vehicles, resulting in the fuel injector can't work properly when serious.
- ⚠ The cracking of the nozzle cap is caused by high intensity work under high temperature.

### 3.8. CRDI Injector Nozzle L357PBC Technical Support Obtaining Methods

- 1) Injector Nozzle Technical File, visit <http://shumatt.com> to get the technical file
- 2) **Injector Technical Videos**  
**Facebook:** Visit <https://www.facebook.com/hison.li> constantly follow can get more information.  
**YouTube :** Visit [https://www.youtube.com/channel/UCByvYBx7VjV\\_mAfxh\\_Hu-aw](https://www.youtube.com/channel/UCByvYBx7VjV_mAfxh_Hu-aw) to get the technical videos, and can learn more information if you follow .  
**Shumatt:** Visit <http://shumatt.com> to get the technical videos.
- 3) Injector Nozzle 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 injector nozzle test data through TruckBook Parts EPC APP.

### 4. CRDI Injector Nozzle L357PBC Storage Standard

- 1) **Choose a suitable storage place**  
The warehouse and cargo yard where the injector nozzles 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 requirements of warehousing

Strict inspections should be carried out when the injector nozzles 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 nozzles must be protected from damage.

## 3) Keep the warehouse dry and preventing moisture

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

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

If the injector nozzle 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 injector nozzle exposed in the air for a long time.

⚠ It is forbidden to store acid, alkali, salt and other substances together with the injector nozzle.

⚠ The unpacked diesel injector nozzle must be rust-proof during secondary storage.

## 5. Company Information



### 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

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

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**Email:** [ruby@shumatt.com](mailto:ruby@shumatt.com)

**Website:** [www.shumatt.net](http://www.shumatt.net)

**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:** No. 66 Chongqing Road Fuhai Avenue Bao An District, Shenzhen, Guangdong, 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: [1.8.CRDI Injector Nozzle L357PBC Warranty Instructions](#))

## 5.2. Contact Information

No.	Name	WeChat/ WhatsApp	Email
1	Ruby	+86-13410541523	<a href="mailto:hison@shumatt.com">hison@shumatt.com</a>

## 6. Copyright Statement

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