

# F00RJ03064 Injector Valve Assembly Technical File

SKU: G1L1F00RJ03064



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## F00RJ03064 Injector Valve Assembly Technical File

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### F00RJ03064 Injector Valve Assembly Technical File

#### 1. F00RJ03064 Injector Valve Assembly's Introduction

#### 1.1.F00RJ03064 Injector Valve Assembly Basic Information

Title	F00RJ03064 Fuel Injector Valve Assembly 0445120 Series	Quality
SKU	G1L1F00RJ03064	China Made New

#### 1.2.F00RJ03064 Injector Valve Assembly Application Information for Injectors

#### (1) F00RJ03064 Injector Valve Assembly Car Model Matching Information

Injector Part Number	Car Model	OE Number
0445120326	AUDI	2R0 130 201 B

#### (2) F00RJ03064 Injector Valve Assembly Application for Injectors'

Injector Series	Injector Part Number	Universal Number	System Pressure (bar)
CRIN1-14/16	0445120326	0445120330	1600

#### (3) F00RJ03064 Injector Valve Assembly Part Number Common Writing

F00RJ03064, FOO RJ03064, F 00R J03 064, F OOR J03 064, F00R J03 064, FOOR J03 064, FOORJ03064, F 00R J03064, F OORJ03064, F 00RJ03064, F OORJ03064, F00R J03064, FOORJ03064

#### 1.3.F00RJ03064 Injector Valve Assembly Specifications and Dimensions Parameters

Injector Valve Assembly Size: 11cm\*18cm \*3 cm Injector Valve Assembly Box Size: 12 cm \*19 cm \*4 cm

Injector Valve Assembly Net Weight: 0.02kg Injector Valve Assembly Gross Weight: 0.05kg

Injector Valve Assembly Quality: China Made New Injector Valve Assembly

Injector Valve Assembly MOQ: 4PCS

#### 1.4.F00RJ03064 Injector Valve Assembly's Quality Control

#### (1) Valve Assembly Testing

All parts of the injector valve assembly 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 Valve Assembly Inspection

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

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#### 1.5.F00RJ03064 Injector Valve Assembly's Customized Service

(1) Valve Assembly's Customized Service: Meet the customized needs of OEM manufacturers for shell lettering, logo engraving, injector internal packaging, injector external packaging and labels customized, etc.

rettering, rogo engraving, injector int	crital packaging, injector external packag	9 9
	5 <b>P</b> 58	of the same of the
Marie and American	s I st	Si Si
Valve Cap Color And Lustre Customized 1000 pieces (White color is optional)	Valve Cap Color And Lustre Customized 1000 pieces (Purple red color is optional )	Valve Cap Groove Customized
Salari Salari	STRUKT ST	
Valve Cap Lettering, Valve Cap logo Engraving, Valve Cap QR Code Engraving Customization	Valve Assembly Box (Square is optional)	Valve Assembly Box (Cylindrical is optional)
Yes Ves	SHUMATT  PROVIDENTS Common rail  Application 0445110034  Application 0445110034  Prince 11042  Prince 11042  Application 0445110034  Application 04451	NORLL PHROPLL PHROPLL TH
Valve Assembly Bag	Valve Assembly Label 7cm*5cm	

#### (2) Injector Valve Assembly Customized Service Requirements:

The purchase of customized valve assembly package is no less than 100 pieces.

The purchase of customized valve assembly groove is no less than 100 pieces.

The purchase of customized valve assembly is no less than 1000 pieces.

The purchase of customized valve cap engraving is no less than 1000 pieces.

The purchase of customized valve color is no less than between 1000 -10000 pieces.

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

▲ Once the customized injector valve assembly is sold, it can not be returned or exchanged if there is no quality problems.

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#### 1.6.F00RJ03064 Injector Valve Assembly Packing List

#### (1) Injector Valve Assembly Spare Parts List

	Serial Number	1	2 50 50	3
	Image	Shundt		State of the state
1	Name	Injector Valve Assembly	Injector Valve Assembly Anti-rust Paper	Injector Valve Assembly Box (Square is optional)
	Description	Injector valve assembly part number F00RI03064	Prevent the injector valve assembly from rusting	Protect the injector valve assembly from being damaged by colliding

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Serial Number	4 A S	5 5 5 5 5 5 5 5 5 5 5 5 5 7 5 5 5 7 5	- 64
Image			5
Name	Injector Valve Assembly Box (Cylindrical is optional)	X VCI Anti-rust Bag /	<u>5</u> 5
Description	Protect the injector valve assembly from being damaged by colliding	Prevent the injector valve assembly from rusting	12



Minors are prohibited from using the injector valve assembly, valve assembly anti-rust paper, valve assembly box, and VCI anti-rust bag to avoid personal injury.



The valve assembly box is recyclable and can be reused.

 $oldsymbol{lack}$  VCI anti-rust bag is non-degradable material, please dispose of it properly after use.

#### 1.7.F00RJ03064 Injector Valve Assembly Warranty Instructions

#### (1) . Injector Valve Assembly Warranty Conditions and Instructions

It is necessary to provide pictures, videos, or test reports detected by the injector valve assembly inspection equipment when the valve assembly 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, 5.0il leakage and other abnormal conditions.

The above condition may also be affected by other components of the injector. If it is confirmed by our company to be a product problem, it is within the scope of the subsidy.

#### (2) . Injector valve Assembly Warranty Coverage

Within 15 days after customer receives the F00RJ03064 injector valve assembly, if there is a performance failure and the product has no appearance damage, customer can choose to replace it;

If the F00RJ03064 injector valve assembly has performance problems during the warranty period (6-12 months), and it is confirmed that it is product's problems after being tested, you can contact our salesmen to replace the same model for free; 40

If the product is confirmed to be fault-free, the product will be returned

#### (3) . Injector Valve Assembly Out of Warranty Coverage

The warranty period has expired, not covered by warranty.

Injector valve assembly failure caused by high temperature, high pressure, humidity, rain and snow, saline-alkali land, earthquake, and used in abnormal environment.

Injector valve assembly damage caused by man-made reasons (throwing, strong magnetic field magnetization, set fire).

Injector valve assembly failure or injector damage caused by non-injector design, technology manufacturing, quality and other issues.

Injector valve assembly failure due to system pressure exceeding system approved pressure.

Injector valve assembly failure caused by impurities (water, lead, aluminum powder, iron powder, sulfide) in the system fuel exceeding the standard requirements.

Injector valve assembly 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).

Injector valve assembly failure caused by not following the installation angle specified in the injector maintenance manual.

Injector valve assembly failure caused by not following the cleaning requirements specified in the injector maintenance manual.

Injector valve assembly failure caused by failure to replace consumable parts as specified in the

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injector maintenance manual.

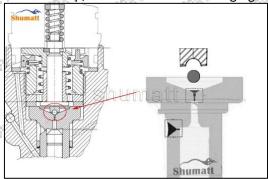
#### 1.8.F00RJ03064 Injector Valve Assembly Manufacturer

Injector Valve Assembly Manufacturer: Shenzhen Shumatt Technology Co.,Ltd

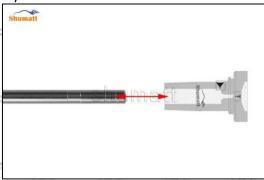
#### 2. F00RJ03064 Injector Valve Assembly Technical Support

#### 2.1.F00RJ03064 Injector Valve Assembly Installation Precautions

- (1) Clean the injector valve assembly 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 valve assembly fall off.
- Use compressed air to clean the cleaning fluid attached to the surface of the injector valve assembly after cleaning, and clean it up to the standard of use.
- When installing the steel ball and ball seat, pay attention to the steel ball should close tightly to the oil return hole at the top of the valve cap, as shown in the following figure.



When installing the valve stem, make sure that the valve stem and the bonnet must ensure that the valve stem can move smoothly in it. as below



When installing the injector valve assembly, the oil inlet position should be 180° between the oil inlet position of the injector body.

⚠ If the injector steel ball and the ball seat are not installed in accordance with the standard, it may cause serious damage to the injector valve assembly.

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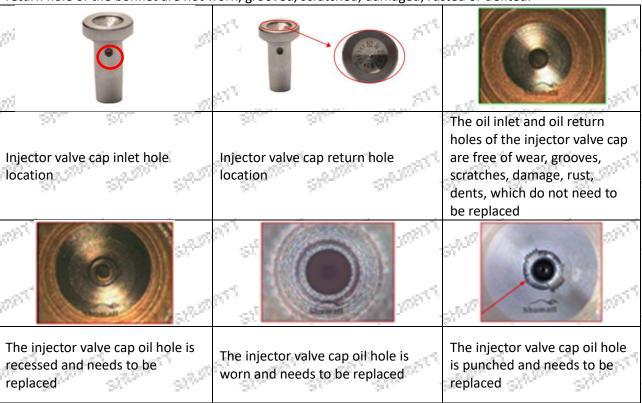
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#### 2.2.F00RJ03064 Injector Valve Assembly Replacement Conditions

#### (1) Valve Cap

Under the microscope, magnify 20 times to check that the oil inlet hole of the valve cap and the oil return hole of the bonnet are not worn, grooved, scratched, damaged, rusted or dented.



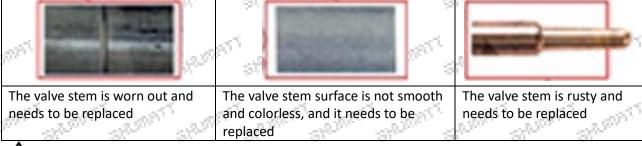
The wear of the top oil return hole causes the oil return to be too large and the leaking injector cannot inject oil.

The oil inlet hole on the side is blocked, causing the injector to fail to establish the pressure chamber and the injector cannot work normally

Mear of the oil chamber of the valve cap will cause fuel injector failure. In severe cases, the fue injector will not work properly.

#### (2) Valve Rod

Microscope amplification 20 times, check the valve rod for wear, not smooth surface color, rust



A The excessive clearance between the stem wear and the housing and between the cap causes an injector delay.

The valve stem lag will cause the injector to start the solenoid to start, and the oil needle can not return quickly after the nozzle is opened.

A Check the injector components before replacing the injector valve assembly according following the njector service manual to avoid further damage to the injector valve assembly.

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2.3.F00RJ03064 Injector Valve Assembly Installation Steps
(1) Use special installation tools the second state of the second st (1) Use special installation tools - the sealing ring and support ring in CRT029 to put them into the injector housing, as shown in picture No. 1



Pic No.1

(2) Place the valve assembly into the injector and use the special tools in CRT029 to install the valve assembly in place as shown in picture No. 2 assembly in place, as shown in picture No. 2



Pic No.2

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(3) Take out the buffer spring, steel ball and ball seat for later use, as shown in picture No. 3



Pic No.3

(4) Place the armature stroke adjust shim into the injector, as shown in picture No. 4



Pic No.4

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(5) Place the armature core into the injector, as shown in picture No. 5



Pic No.5

(6) Place the armature lower plate into the injector, as shown in picture No. 6



Pic No.6

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Pic No.7

(8) Use the special tool for tightening the lock nut in CRT029 to tighten the lock nut to 65Nm, as shown in picture No. 8



Pic No.8

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Pic No.9

(10) Press the armature plate downward so that the opening buffer stroke adjust washer can be stuck in the slot on the armature core, as shown in picture No. 10



Pic No.10

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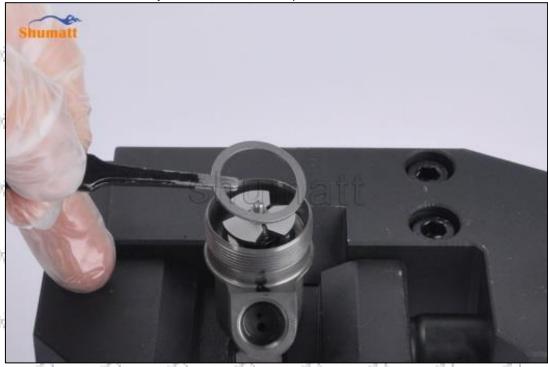
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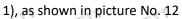


(11) Put in the armature stroke adjust shim, as shown in picture No. 11



Pic No.11

(12) To measure the stroke without the buffer spring, steel ball, and ball seat, use the CRT220 tool (Tool No.

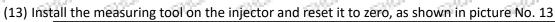




Pic No.12

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Pic No.13

(14) After installing the buffer spring, steel ball, and ball seat, install the measuring tool. The value displayed by the measuring tool is the value of the buffer stroke (15-45um). If it is greater than the normal value, reduce the buffer stroke adjustment shim. If it is smaller than the normal value, thicken the buffer stroke adjustment gasket, as shown in picture No. 14



Pic No.14

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Pic No.15

(16) The value reached by pressing the gauge rod is the armature stroke (45-55um). If the value is greater than the normal value, reduce the armature stroke adjustment washer. If the value is less than the normal value, thicken the armature stroke adjustment washer, as shown in picture No. 16.



Pic No.16

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(17) Replace the measurement tool and use the (No. 5 tool) in the CRT220 tool and perform zeroing, as shown in picture No. 17



Pic No.17

(18) Measure the distance from the inner plane to the outer plane of the solenoid valve and record it as A (5510), as shown in picture No. 18



Pic No.18

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(19) Measure the distance from the armature plate plane at the end of the injector to the remaining air gap adjust washer shim again and record it as B (5498), as shown in picture No. 19



Pic No.19

(20) Residual air gap = A data - B data. The value of the remaining air gap is 45-55Nm. If it is greater than the normal value, reduce the remaining air gap stroke adjust washer shim. If it is less than the normal value, thicken the remaining air gap stroke adjust washer shim, as shown in picture No. 20



Pic No.20

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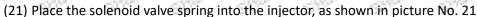
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Pic No.21

(22) Place the solenoid valve spring adjust washer shim into the injector, as shown in picture No. 22



Pic No.22

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(23) Tighten the solenoid valve to a 45 degree angle, as shown in picture No. 23



Pic No.23

(24) Use the solenoid valve nut open-end wrench to tighten it to 35Nm, as shown in picture No. 24



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#### 2.4.F00RJ03064 Injector Valve assembly Technical Support Obtaining Methods

- (1) Valve Assembly Technical File, visit <a href="http://shumatt.com">http://shumatt.com</a> to get the technical file
- (2) Injector Valve Assembly Technical Videos

**Facebook: Visit** <a href="https://www.facebook.com/hison.li">https://www.facebook.com/hison.li</a> to get technical support videos and stay tuned for more information.

**YouTube:** <a href="https://www.youtube.com/channel/UCByvYBx7VjV">https://www.youtube.com/channel/UCByvYBx7VjV</a> mAfxh Hu-aw to get the technical support videos, constantly follow can get more information.

Shumatt: Visit <a href="http://shumatt.com">http://shumatt.com</a> to get the technical support videos.

(3) Valve Assembly Information Query Software

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

(4) Search The injector valve assembly test data through TruckBook Parts EPC APP.

#### 3.F00RJ03064 Injector Valve Assembly Purchase and Delivery

#### 3.1.F00RJ03064 Injector Valve Assembly Purchase Payment Terms

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

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Please contact our salesmen for specific payment information.

#### 3.2.F00RJ03064 Injector Valve Assembly Main Sales Market.

**Injector valve assembly main sales markets:** Asia, Europe, North America, South America, Africa etc.

#### 3.3.F00RJ03064 Injector Valve Assembly 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.F00RJ03064 Injector Valve Assembly 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.F00RJ03064 Injector Valve Assembly Lead Time

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

## 3.6.F00RJ03064 Injector Valve Assembly 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

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Country of Destination	Estimated Arrival Time	Country of Destination	Estimated Arrival Time	Country of Destination	Estimated Arrival Time
Japan	3 Days	SÜK SI	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	Fried State	Parising.	Shippe, Shippe,	31.57° 3

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

#### 3.7.F00RJ03064 Injector Valve Assembly 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.

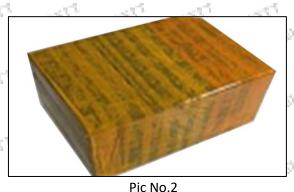
Transparent tape, yellow tape, black wrapping protective film, white wrapping protective film are non-degradable materials, please dispose of them properly.

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A 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 by Transparent tape



International express packaging: Wrapped with yellow tape after wrapping black protective film



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

#### 4.F00RJ03064 Injector Valve Assembly Storage Standard

#### (1) Choose a suitable storage place

The warehouse and cargo yard where the fuel injector valve assembly is 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 fuel injector valve assemblies 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 Injector Valve Assembly must be protected from damage.

#### (3) Keep the warehouse dry and preventing moisture

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

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

If the injector valve assembly package is damaged, it should be repaired or replaced; when the package is damp, the packaging material should be dried; if the original and 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.

A It is forbidden to leave the injector valve assembly exposed in the air for a long time.

A It is forbidden to store acid, alkali, salt and other substances together with the injector valve assembly.

The unpacked injector valve assembly must be rust-proof during secondary storage.

#### **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.

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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: 1.7 F00RJ03064 Injector Valve Assembly Warranty Instructions)

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