

320D Injector 320-0680 Technical File

2SQ

SKU1: G1W2002645A747

SKU2: G2C60003200680 SKU3: G1C6002645A747

 SKU4: G1K6002645A747

 SKU5: K30K2K2645A7472

 SKU6: L30K2K2645A7472

 SKU6: L30K2K2645A7472

 SKU8: T300K2K2645A747

SKU9: C2C6002645A747

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320D Injector 320-0680 Technical File

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320D Injector 320-0680 Technical File -578-578 -3⁴³⁰⁰

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SAUTH 1. 320-0680 Injector Introduction

Title	China made new 320D injector 320-0680 fuel injector for C4.4 Engine
SKU1	G1W2002645A747
SKU2	G2C60003200680
SKU3	G1C6002645A747
SKU4	G1K6002645A747
SKU5	K30K2K2645A747Z
SKU6	L30K2K2645A747Z
SKU7	G1\$8002645A747
SKU8	T300K2K2645A747
SKU9	G2C6002645A747

1.2. 320-0680 Injector Common Part Number

(1) Injector Exchange Information

Injector Part Number	Re-manufactured Part Number	Replacement Number	OE Number
320-0680	10R-7672	306-9380	2645A747
3200680	10R7672	3069380	2645A734
		292-3780	2645A718
all all all	and and and	2923780	and the state of the
Star Star Star	90° 90° 90° 9	320-0680	310 - 310 - 310
		3200680	

(2) 320-0680 Matching Information -15⁰⁰⁰ 1.50 3.97 . s. 979

(Z) 520-0080 Matching In	and the second		ar ar ar	~ <u>619</u> <u>619</u>
Car Model	Engine	Engine	Engine	Engine
Caterpillar 320D	Perkins C4.4, C6.6	Statement Statement	ALEAN SHAREN ST	ALTER THE DESCRIPTION OF
WHEELED EXCAVATOR	M313D	M315D	M315D2	- M316D
shin shin shin s	M318D	M318D MH	M322D	M322D MH
ENGINE - GENERATOR SET	C4.4 SHITTER	C4.4DE110E	C4.4DE65E3	C4.4DE88E0
PAVING COMPACTOR	CB-44B	CB-54	CB-54B	CB-64
	CP-54B	CS-54	CS-54B	CS-64B
Telescopic Boom Loader	TH336C	TH337C	TH406C	TH407C
iciescopie boom couder	TH417C	TH514C	TL943C C4.4	
BACKHOE LOADER	430E	450E	a ^{nder} sa ^{nder} så	Street Str
ASPHALT PAVER	AP-500E A	STREET, STREET,	AND TO SALEST ST	ATT STATES
Vibratory roller	CP54B	CP54	art art	The Then

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SHUMATT S	henzhen Shumat	tt Technology	Co., Ltd	
Pitch Paver	BG500E	AP-500E	AP555E	BG55E 430
1.3. 320-0680 Injector Part	Number Common Wri	iting store s	there allow al	Stran Str
320-0680, 3200680, 320				
747, 2645 A 747, 2645A				545 A718,2645A
718, 2645 A 718, 306-93	80,306 9380,306938	0,292-3780,292	3780,292 3780	
1.4. 320-0680 Injector Para	meter	States States 3	the star st	and all all all
Adaptation System: Com	non Rail System			
Injector Series: 320D C4.4	Series	and and a start	ATTAC ATTAC	and a state of
Injector Type: Electromag		3177 3177 3	n. 20. 20	. 31. 31.
Vehicle Configuration Infor	mation:320D Engines	The The I	Tree Tree	Then Then
1.5. 320-0680 Injector Spe	cifications and Dimens	sions	ter star st	all all all
Injector Size: 20cm* 10cm	m *10cm =2000cm ³ (L*	W*H=V)	- i - i	
Injector Net Weight: 0.5kg	REPART SPECIAL SPECIAL	SPATIS SPATIS	r ^{ann} ar ^{ann} a	The states str
Injector Gross Weight: 0.5	-			
Injector Quality: China Ma	. 8, 507	Salari alari	autoria autoria autoria	and a and a
Package Size: 22 cm* 13		31. 31. 3	n - 191 - 191	- 94° - 94°
Injector Type: Diesel Com MOQ: 4 Pieces	mon Rail Injector	SHUMPT SHUMPT	NUMBER SAUDIES	SPATT SPREATT SPR
1.6. 320-0680 Injector Qua	lity Control	and and		5 . E .

(1) Injector Testing

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

(2) Injector Assembling

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

68° -

(3) Injector Inspection

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

1.7. 320-0680 Injector Customized Service

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



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Injector nozzle engraving	Injector house lettering and QR code
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alant alan ala Constant alant al	and share and share shi
Injector solenoid valve engraving	Injector box and label

(2) Injector Customized Service Requirements:

The purchased of customized injector are not less than 10 pieces.

Customized injector packages no less than 1000 pieces.

NOPP' Customized products involve the need of specify logo, the OEM manufacturer needs to provide trademark authorization and the sample of logo image file. 100 at the

. dift.

A Once the customized fuel injector is sold, it cannot be returned or exchanged if there is no quality problems.

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1.8. 320-0680 Injector Packing List and Package Size (1) Injector Spare Parts List

No.	1	2	3
2400 - 2400 - 2400 - 2400 - 2400 - 2400 - 2400 - 2400 - 2400 - 2400 - 2400 - 2400 - 2400 - 2400 - 2400 - 2400 -	318.20 Star 28.20 - 518.2	Store Store Store St	and Stores Stores Sto
Image			
Stranger, Storage	and prove and a	an along along along a	and the state of the state
Name	Fuel Injector	O-Ring	Nozzle Protective Cover Cap
Description	Fuel injector part number 320-0680	Ensure to meet the standard of the sealing performance between the injector and the engine	Protect nozzle holes from being polluted and blocked
No.	4	5	6
sternage star			
Name	Injector Oil Inlet Tube Cap	Solenoid valve protective cover	VCI Anti-rust Bag
			_
Description	Protect oil inlet from being polluted and blocked	Protect the solenoid body and terminal posts from external forces	Prevent fuel injector from rusting

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SAUDATT SAUD Image SAUDATT SAUD		SHUMATT	
Name	Bubble Bag	Injector Packing Box	Nozzle Gasket
Description	Prevent the injector from being damaged by external forces	Package for injector and injector accessories	Used to ensure the tight fit between the tight cap end of the injector and the engine
SHAREST SHAR	ALL STREAM STREAM STREAM STR	Start Stephen Stephen Stephen S	ALDER SHADER SHADER SH

A Minors are forbidden to use the fuel injector assembly, O-ring, gasket, nozzle protective cover, fuel $S^{0,1}$ injector house protective cover, solenoid valve protective cover, VCI anti-rust bag, and air bubble bag to avoid personal injury.

anter. 17.90 C O-ring and gasket are disposable installation accessories, and need to be replaced for

re-installation.

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A The nozzle protective cover, the injector house protective cover, and the solenoid valve protective SHIDAY SPATIAN cover are recyclable accessories that can be reused. ad^{er}

A VCI anti-rust bags and bubble bags are non-degradable materials, please dispose of them properly 313.2057 SPACE after using. TRUTH STREET, STREET, STREET, States States

A The injector and the installation parts should be coated with appropriate sealing oil during installation.





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1.9. 320-0680 Injector Testing Standard and Certificate

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

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	42						
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1.10. 320-0680 Injector Warranty Instructions

(1) Product Warranty Conditions and Instructions

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

Within 15 days after customer receives the 320-0680 injector, if there is a performance failure and the product has no appearance damage, customer can choose to replace it or repair it;

If the 320-0680 injector 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 injector 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.

A 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) Injector Out of Warranty Coverage

The warranty period has expired.

510,302 Injector failure caused by high temperature, high pressure, humidity, rain and snow, saline-alkali land, earthquake, and used in abnormal environment.

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Customer disassembles or repairs the injector personally resulting in damage to the injector.

Injector damage caused by man-made reasons (throwing, strong magnetic field magnetization, set fire). Injector failure or injector damage caused by non-injector design, technology, manufacturing, quality and other issues.

Injector failure due to system pressure exceeding system approved pressure.

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

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).

Injector failure caused by not following the installation angle specified in the vehicle engine maintenance manual.

Injector failure caused by not following the cleaning requirements specified in the vehicle engine maintenance manual.

Injector failure caused by failure to replace consumable parts as specified in the vehicle engine maintenance manual.

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.

Failure to replace the consumable parts and the fitting clearance of the oil inlet system pipeline and the fuel injector connection in accordance with the fuel intake system specified in the vehicle engine maintenance manual.

1.11. 320-0680 Injector Manufacturer

Injector manufacturer: Shenzhen Shumatt Technology Co., Ltd

2. 320-0680 Injector Technical Support

- 2.1. 320-0680 Injector Part Number Location
- 1) E.g.: The injector part number see as follows

	No.	Name
B	A A Store B Struct	brand, logo, part number, series number nozzle part number
	ATT SHARATT SHAR	IT SHUDDIT SHUDDIT SHUDDIT SHUDDIT SH
	5°	The state and a state and a

SANDALL SANDALL

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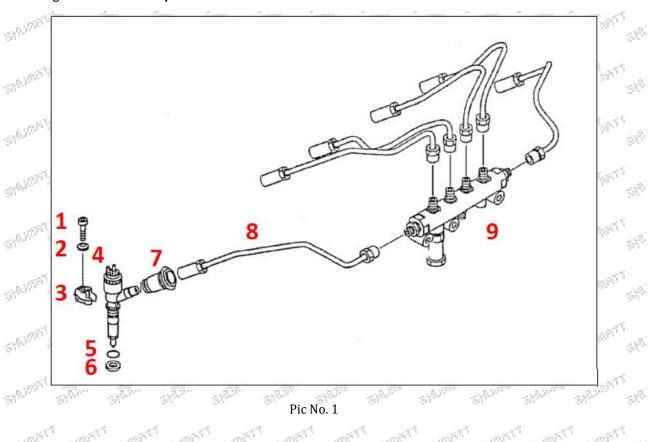


2.2. 326-4700 Injector Application Scenarios





Matching Car Model: Caterpillar 320D excavator



all in a	all all a	201 - 18	I all all a	d ^{en a}	all and all all all all
No.	Name	No.	Name	No.	Name
1	Adaptor Fixing Bolt	2 🚿	Gasket	1 ²⁰ 3 S	Fuel Injection Adaptor
.	Fuel Injector		Injector O-Ring	6	Injector Nozzle Gasket

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7	Intake Gasket	8	Intake	9	High Pressure Comn Pipe	non Rail
- Store -	Am She S	pr di		3100 5	the star star	Stor St

2.3. 320-0680 Injector Installation

(1) 320-0680 Injector Installation Precautions:

f A The replacement of the fuel 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;

A 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 fuel injector 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.

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

A Before installing, check whether the fuel injector nozzle gasket has been replaced and installed on the fuel injector.

When installing the fuel injector, apply lubricant between the fuel injector, fuel nozzle sealing gasket and O-ring.

Without replacing new gasket can lead to: deformation of the tight cap of nozzle, deformation of nozzle, deformation of nozzle orifice, oil leakage and air leakage, which will cause serious damage to the fuel injector and nozzle to break and cause damage to the engine.

lacksquare When installing the injector on the engine, please carefully check the components related to the

installation of the injector, such as the injector pressure plate, screw, injector rod and other accessories are not deformed, and install it in strict accordance with the operation steps of the engine maintenance manual.

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

A It is forbidden to operate the bare injector for a long time in a strong magnetic field environment.

2.4. 320-0680 Injector Reasons of 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 fuel injector of the vehicle.
- (5) The long-term placement of the injector causes the anti-rust oil to solidify, and the internal

components are stuck or the oil holes are blocked.

1720 A Before installing, carefully check whether other components in the common rail system except the fuel

injector are damaged so as to prevent the fuel injector from not working properly after being replaced. SPERF 39.572 37.555 Strates

2.5. 320-0680 Injector Causes to Damage

- (1) Don't operate properly according to engine maintenance manual during dis-assembly or installation, SHAND resulting in damage to the injector.
- (2) The fuel oil used for the vehicle does not meet the standard cause damage to the 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 injector.

- (4) The abrasion of the oil pump produces iron powder and aluminum powder enter the fuel injector and cause damage to the fuel injector.
- (5) The deformation and abrasion of fuel tank result in iron powder or aluminum powder entering the fuel injector and causing damage to the fuel injector.
- (6) The fuel injector is damaged due to replacement or adjustment of the relevant parts of the fuel 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 injector fails to meet the original standard.
- (7) The engine is overheated and overloaded for a long time working results in damage to the fuel injector.
- (8) The injector will be damaged naturally at the end of its working life.
- (9) The injector is magnetized (injector parts' magnetic exceeded) causing the injector to not work properly.
- A Before replacing the fuel injector, please check the engine parts carefully according to the engine and a 1⁷18 97⁷⁶.

maintenance manual to avoid the fuel injector being damaged again after replacement.

2.6. 320-0680 Injector Technical Support Obtaining Methods

(1) Injector Technical File, visit <u>http://shumatt.com</u> to get the technical file.

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(2) Injector Technical Videos

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

(3) Injector Information Query Software

 $q \beta^{(q)}$, estat 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 injector test data through TruckBook Parts EPC APP.

3. 320-0680 Injector Purchase and Delivery

3.1.320-0680 Injector Purchase Payment Term

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

Please contact our salesmen for specific payment information

3.2. 320-0680 Injector Main Sales Markets

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

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3.3. 320-0680 Injector 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. 320-0680 Injector Shipping Ways

THE STATE 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. 326-4700 Injector Lead time

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

3.6.320-0680 Injector Logistics Time for Destination Out of China's Areas

DHL Logistics 1	lime:	The The D	23m 273m	and a	at a	Mar Mar	
Country or Regio Departure	on of Hong Kong, China	Other Countries or Regions of Asia	Australia and New Zealand	Europe	America	Other Countries	
China's Mainlai	nd 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 De	stination	Estimated Arrival Time	
Japan Japan	3 Days	UK UK	5-7Days	Egypt	n i A	5-7 Days	
Turkey	5-7 Days	Singapore	3 Days	Switzerla	ind	5-7 Days	
Bahrain	5-7 Days	Latvia	7-10 Days	New Zeal	and	7-10 Days	
Sri Lanka	5-7 Days	Thailand	3 Days	Austria	a .	5-7 Days	
Romania	5-7 Days	Vietnam	3-5 Days	Estoni		5-7 Days	
Malaysia	3-5 Days	Israel	5-7 Days	Mexico	5 Star	7-10 Days	
France	5-7 Days	America	5-7 Days	United Arab E	mirates	5-7 Days	
and Italy and Italy	5-7 Days	Netherlands	5-7 Days	Benga	er _{si} n	7-10 Days	
Lebanon	5-7 Days	Philippine	3-5 Days	Greece	e	7-10 Days	
South Korea	3 Days	Spain	5-7 Days	Myanm	ar	5-7 Days	
Canada	5-7 Days	Germany	5-7 Days	Saudi Ara	ibia	7-10 Days	
Portugal	5-7 Days	Australia	5-7 Days	South Af	rica	7-10 Days	

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Denmark	5-7 Days	Belgium	5-7 Days	Ukraine	7-10 Days
	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	Same Same	Same Same		and water

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

3.7. 320-0680 Injector Packing

 $\mathcal{D}^{(i)}$ Domestic express packaging: Usually wrapped in waterproof scotch tape, such as picture No.2. International express packaging: Wrapped with waterproof yellow tape After wrapping the black -SALTRAT . SPUTT 38.5¹⁵ 32.5¹⁵ protective film, such as picture No. 3.

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. 4, also, the products can be packaged according to customers' requirements.

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

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

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. 2

Domestic express packaging:

Wrapped by Transparent tape

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

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Pic No. 4

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

4. 320-0680 Injector Storage Standard

(1) Choose a suitable storage place

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The warehouse and cargo yard where the fuel injector 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 and Car dry.

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(2) Strict requirements of warehousing

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

(3) Keep the warehouse dry and preventing moisture

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

Injectors 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

and and and a start a start . After the injector 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 fuel 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 injector exposed in the air for a long time.

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

A The unpacked fuel injector must be rust-proof during secondary storage.

5. Company Information when i share share



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• After-sales Service Address: Please contact our salesmen to obtain and provide the corresponding product maintenance reasons (Reference: <u>1.10.326-4700 Injector Warranty Instructions</u>)

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