

A2C59513553 CRDI Injector **Piezo Series** Technical File

SKU1: Y1Z202C59513553

SKU2: Y1T32C59513553

SKU3: Y1L332C59513553

COMMON RAIL INJECTORS CRDI



CRDI
INJECTORS

A2C59513553 CRDI Injector Piezo Series Technical File

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A2C59513553 CRDI Injector Piezo Series Technical File

1. A2C59513553 CRDI Injector Introduction

1.1. A2C59513553 CRDI Injector Basic Information

Title	Common Rail Piezo Series A2C59513553 CRDI Injector	Quality
SKU 1	Y1Z202C59513553	Original New
SKU 2	Y1T32C59513553	Original New
SKU 3	Y1L332C59513553	Original New

1.2. A2C59513553 CRDI Injector Common Part Number

(1) CRDI Injector Exchange Information

CRDI Injector Part Number	Compatible Number	Re-manufactured Number
A2C59513553	7H2Q-9K546-CB L006496	/

(2) CRDI Injector Part Number Common Writing

A2C59513553

1.3. A2C59513553 CRDI Injector Matching Information

Vehicle Brand	Series	Car Model	Engine Model	Production Date	Power (KW)	Horse Power	Emission Standards	Manufacturer	Emissions (L)	Cylinder	Power Source (V)
Land Rover	Piezo	Discovery III	L319 2.7 TD 4x4	2004-2009	140	/	/	/	/	/	/
Land Rover	Piezo	Discovery IV	L319 2.7 TD 4x4	2009-2018	140	/	/	/	/	/	/

1.4. A2C59513553 CRDI Injector Parameter

Adaptation System: Common Rail System

CRDI Injector Series: Piezo

CRDI Injector Type: Piezoelectric CRDI Injector

Maximum System Pressure Supported: /

1.5. A2C59513553 CRDI Injector Specifications and Dimensions

CRDI Injector Size: 21.5cm*4 cm *4 cm = 344cm³ (L*W*H=V)

CRDI Injector Net Weight: 0.55 kg

CRDI Injector Gross Weight: 0.6 kg

CRDI Injector Quality: Original New

CRDI Injector Package Size: 28cm*7 cm *7 cm = 1372 cm³

CRDI Injector Type: Piezoelectric CRDI Injector

CRDI Injector MOQ: 4 Pieces

1.6. A2C59513553 CRDI Injector Quality Control

(1) CRDI Injector Testing

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

(2) CRDI Injector Assembling




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

(3) CRDI Injector Inspection

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

1.7. A2C59513553 CRDI Injector Customized Service

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

No.	1	2	3
Image			
Name	CRDI Injector House Lettering And QR Code	CRDI Injector Solenoid Valve Engraving	CRDI Injector Box And Label

(2) CRDI Injector Customized Service Requirements:

The purchase quantity of customized CRDI injectors shall not be less than 10 pieces.







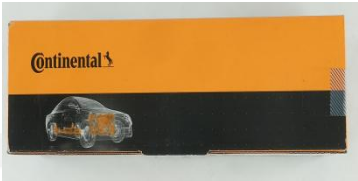
The purchase quantity of customized CRDI injector packages shall not be less than 1000 pieces.

When the 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 CRDI injector is sold, it cannot be returned or exchanged if there is no quality problems.

1.8. A2C59513553 CRDI Injector Packing List and Package Size

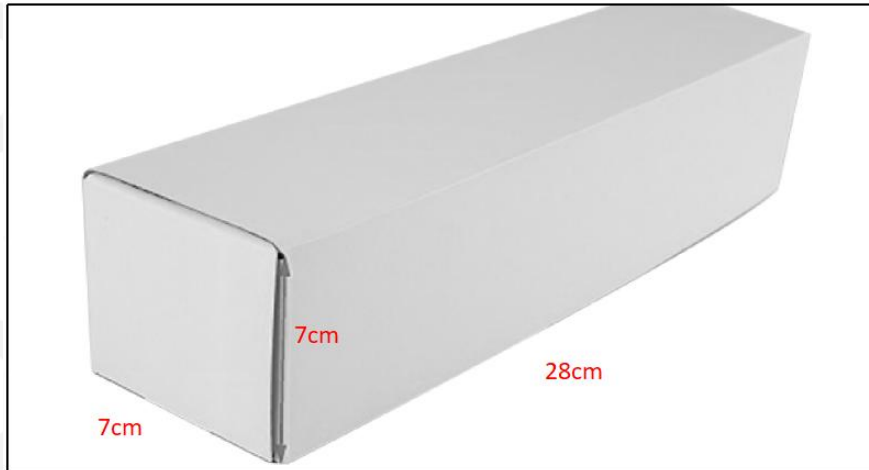
(1) CRDI Injector Spare Parts List

No.	1	2	3
Image			
Name	CRDI Injector	O-Ring	Washer Shim
Description	CRDI injector part number: A2C59513553	Ensure to meet the standard of the sealing Performance between the CRDI injector and the engine	Made of brass, used to ensure the tight fit between the CRDI injector cap end and the engine
No.	4	5	6
Image			
Name	CRDI Injector Protective Cover Cap	VCI Anti-rust Bag	Bubble Bag
Description	Protect nozzle holes from being polluted and blocked	Prevent CRDI injector from rusting	Prevent the CRDI injector from being damaged by external forces
No.	7	8	9
Image		/	/
Name	CRDI Injector Packing Box	Oil Inlet Pipe Joint	/
Description	Place CRDI injector and CRDI injector accessories	/	/

- ⚠ Minors are forbidden to use the CRDI injector assembly, O-ring, gasket, protective cover, CRDI injector house protective cover, solenoid valve protective cover, VCI anti-rust bag, and air bubble bag to avoid personal injury.
- ⚠ O-ring and gasket are disposable installation accessories, and need to be replaced for re-installation.
- ⚠ The nozzle protective cover、CRDI injector house cover and solenoid valve cover are recyclable accessories that can be reused.
- ⚠ VCI anti-rust bag and bubble bag are non-degradable materials, please dispose of them properly after using.

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

(2) CRDI Injector Box Size



Pic No. 1

No.	Name	CRDI Injector Package Size (cm)
1	CRDI Injector Box	28*7*7

1.9. A2C59513553 CRDI Injector Testing Standard and Certificate

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

BOTEN		测试报告		4.05.2019 10:42:09	
企业名称: _____ 电话: _____ 地址: _____ 传真: _____ 检测人: _____ 客户地址: _____ 送检单位: _____ 电话: _____ 客户姓名: _____ 检测描述: _____ 零件名称: _____ 型号-零件号: _____ 检测日期: _____					
检测结果					
检测标准: C02002-0511 检测项目: 喷射压力, 喷射量, 喷射时间, 喷射角度					
LOAR TEST:	38	4	0.5	0.0015	✓
Back:	38	4	75.7	0.0015	✓
WPRM:	38	12.5±16.5	0.3	0.0015	✗
Max:	23.5	3.18±14.4	0.3	0.0015	✓
TL:	18.4	3.0±8.5	0.3	0.0015	✓
EL:	14.1	1.5±4.8	0.3	0.0015	✓
VE:	1.7	4.5±1.6	0.3	0.0015	✓
检测员: _____ 审核员: _____ 检测日期: _____					

Pic No. 2

1.10. **A2C59513553** CRDI Injector Warranty Instructions

(1) **Product Warranty Conditions and Instructions**

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

Within 15 days after customer receives the **A2C59513553** CRDI 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 **A2C59513553** CRDI injector has performance problems during the warranty period (6-12 months), and it is confirmed that it is product 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 CRDI 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.

▲ Tips: For products not covered by warranty, Shumatt 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) **CRDI Injector Out of Warranty Coverage**

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

1.11. A2C59513553 CRDI Injector Manufacturer

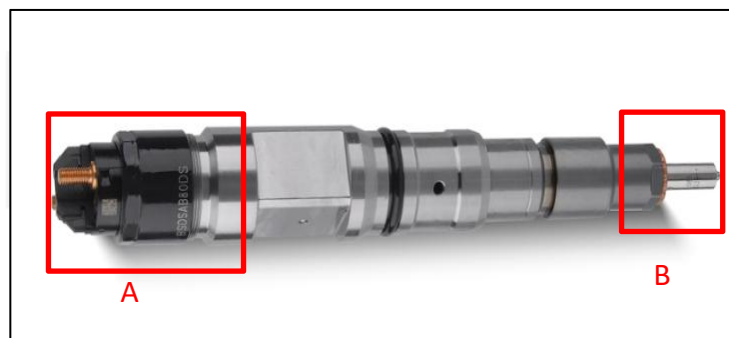
CRDI Injector manufacturer: Shenzhen Shumatt Technology Co., Ltd

2. A2C59513553 CRDI Injector Technical Support

2.1. A2C59513553 CRDI Injector Part Number Location

E.g.: The CRDI injector part number location is as follows

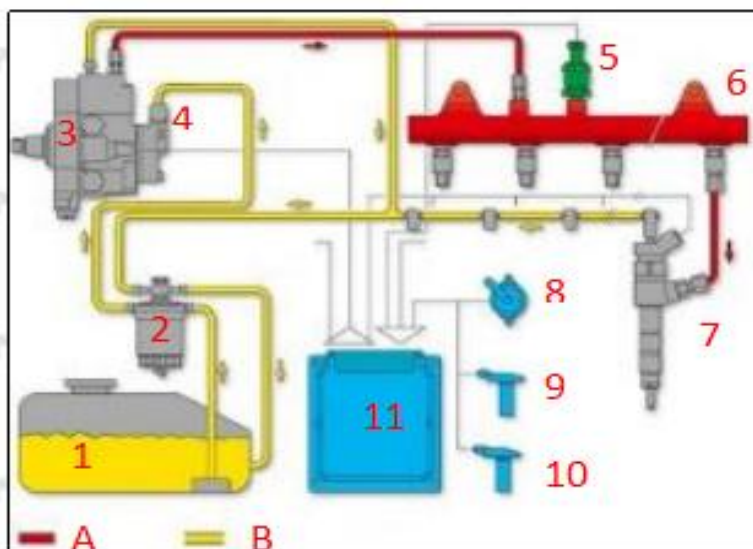
No.	Name
A	brand, logo, part number, series number
B	part number



Pic No. 3

2.2. A2C59513553 CRDI Injector's Application Scenarios

Common rail system is an oil supply method refers to the diesel oil from the fuel tank sucked out by the gear pump through the oil-water separator and the gear pump to diesel fine filter, high-pressure pump, common rail pipe, and fuel CRDI injector, all together with the closed-loop fuel supply system composed of sensors and ECU that completely separates the generation of injection pressure and the injection process from each other.



Pic No. 4

No.	Name	No.	Name	No.	Name	No.	Name
1	Tank	5	Common Rail Pressure Sensor	9	Engine Crankshaft Sensor	A	High Pressure Oil Circuit
2	Diesel Filter	6	Common Rail Pipe	10	Camshaft Sensor	B	Low Pressure Oil Circuit
3	High-Pressure Pump	7	CRDI Injector	11	ECU Electronic Control Unit	/	/
4	Fuel Gear Pump	8	Accelerator Pedal	/	/	/	/

2.3. A2C59513553 CRDI Injector Installation Precautions

- (1) The replacement of the CRDI 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) Replacement of wearing parts of the fuel system, cleaning requirements for the connection between the fuel system and the CRDI injector, the fitting clearance of the CRDI injector connection, the installation angle and tightening torque of the CRDI 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 CRDI injector.
- (3) When installing the CRDI injector on the engine, it is necessary to clean the engine block, cylinder head and other parts connected to the CRDI injector, and ensure that there is no dust, carbon deposits, water, rust spots, etc.
- (4) When installing the CRDI injector, apply lubricant between the CRDI injector, sealing gasket and O-ring.
- (5) When installing the CRDI injector on the engine, please carefully check the components related to the installation of the CRDI injector, such as the CRDI injector pressure plate, screw, CRDI injector rod and other accessories are not deformed, and install it in strict accordance with the operation steps of the

engine maintenance manual.

- (6) It is forbidden to operate the bare CRDI injector for a long time in an environment with serious dust pollution and corrosion to iron products.
- (7) It is forbidden to operate the bare CRDI injector for a long time in a strong magnetic field environment.

2.4. Reasons for A2C59513553 CRDI Injector 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 CRDI injector of the vehicle.
- (5) The long-term placement of the CRDI 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 except the CRDI injector are damaged so as to prevent the CRDI injector from not working properly after being replaced.

2.5. Causes of A2C59513553 CRDI Injector Being Damaged

- (1) The operator does not operate properly according to engine maintenance manual during disassembly or installation, resulting in damage to the CRDI injector.
- (2) The fuel oil used for the vehicle does not meet the standard cause damage to the CRDI 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 CRDI injector.
- (4) The abrasion of the oil pump produces iron powder and aluminum powder enter the CRDI injector and cause damage to the CRDI injector.
- (5) The deformation and abrasion of fuel tank result in iron powder or aluminum powder entering the CRDI injector and causing damage to the CRDI injector.
- (6) The CRDI injector is damaged due to replacement or adjustment of the relevant parts of the CRDI 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 CRDI injector fails to meet the original standard.
- (7) The engine is overheated and overloaded for a long time working results in damage to the CRDI injector.
- (8) The CRDI injector will be damaged naturally at the end of its working life.
- (9) The CRDI injector is magnetized (CRDI injector parts' magnetic exceeded) causing the CRDI injector to not work properly.

▲ Before replacing the CRDI injector, please check the engine parts carefully according to the engine

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

2.6. A2C59513553 CRDI Injector Storage Standard

(1) Choose a Suitable Storage Place

The warehouse and cargo yard where the CRDI 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 dry.

(2) Strict Requirements of Warehousing

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

(3) Keep The Warehouse Dry And Preventing Moisture

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

The CRDI 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

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

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

2.7. A2C59513553 CRDI Injector Technical Support Obtaining Methods

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

- (5) YouTube:

Visit https://www.youtube.com/channel/UCByvYBx7VjV_mAfxh_Hu-aw to get the technical videos, stay tuned for more information.

3. A2C59513553 CRDI Injector Purchase and Delivery

3.1. A2C59513553 CRDI Injector Purchase Payment Term

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

▲ Please contact our salesmen for specific payment information.

3.2. A2C59513553 CRDI Injector Main Sales Markets

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

3.3. A2C59513553 CRDI 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. A2C59513553 CRDI 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. A2C59513553 CRDI Injector Lead time

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

3.6. A2C59513553 CRDI Injector Logistics Time for Destination Out of China's Areas

DHL Logistics Time :

Country or Region of Departure	Hong Kong, China	Other Countries or Regions of Asia	Australia and New Zealand	Europe	America	Other Countries
China's Mainland	7 Days	7 Days	8 Days	8 Days	8-12 Days	7-10 Days

UPS Logistics Time: Country or Region of Departure: China's Mainland

Country of Destination	Estimated Arrival Time	Country of Destination	Estimated Arrival Time	Country of Destination	Estimated Arrival Time
Japan	3 Days	UK	5-7Days	Egypt	5-7 Days
Turkey	5-7 Days	Singapore	3 Days	Switzerland	5-7 Days
Bahrain	5-7 Days	Latvia	7-10 Days	New Zealand	7-10 Days
Sri Lanka	5-7 Days	Thailand	3 Days	Austria	5-7 Days
Romania	5-7 Days	Vietnam	3-5 Days	Estonia	5-7 Days
Malaysia	3-5 Days	Israel	5-7 Days	Mexico	7-10 Days
France	5-7 Days	America	5-7 Days	United Arab Emirates	5-7 Days
Italy	5-7 Days	Netherlands	5-7 Days	Bengal	7-10 Days
Lebanon	5-7 Days	Philippine	3-5 Days	Greece	7-10 Days
South Korea	3 Days	Spain	5-7 Days	Myanmar	5-7 Days
Canada	5-7 Days	Germany	5-7 Days	Saudi Arabia	7-10 Days

Portugal	5-7 Days	Australia	5-7 Days	South Africa	7-10 Days
Denmark	5-7 Days	Belgium	5-7 Days	Ukraine	7-10 Days
India	7-10 Days	Qatar	7-10 Days	Poland	5-7 Days
Indonesia	3-5 Days	Morocco	7-10 Days	Pakistan	7-10 Days
Kuwait	7-10 Days	/	/	/	/

⚠ The logistics time is for reference only and is subject to the actual arrival.

3.7. A2C59513553 CRDI Injector Packing

Domestic Express Packaging: Usually wrapped in waterproof scotch tape, such as picture No.5.

International Express Packaging: Wrapped with waterproof yellow tape After wrapping the black protective film, such as picture No. 6.

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. 7, 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. 5

Domestic Express Packaging:
Wrapped with Transparent tape



Pic No. 6

International Express Packaging:
Wrapped with yellow tape after wrapping black protective film



Pic No. 7

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

4. Company Information




Pic No. 8


4.1. 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


 **HK Telephone:** +852-67653519


 **Telephone:** +86-755-23215133


 **Email:** ruby@shumatt.com

 **Website:** www.shumatt.com

 **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:** 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: [1.10. A2C59513553 CRDI Injector Warranty Instructions](#).)

4.2. Salesmen's Contact Information

Name	WeChat/ WhatsApp	Email
Ruby	+86-13410541523	hison@shumatt.com

5. Copyright Statement

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