

**AB1822803C1** Injector **MTU** Series Technical File

**SKU: Z1K3B1822803C1**



## AB1822803C1 Injector MTU Series Technical File

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## AB1822803C1 Injector MTU Series Technical File

### 1. AB1822803C1 Injector Introduction

#### 1.1. AB1822803C1 Injector Basic Information

| Title | Common Rail AB1822803C1 Injector MTU Series | Quality         |
|-------|---|-----------------|
| SKU   | Z1K3B1822803C1                              | Re-manufactured |

#### 1.2. AB1822803C1 Injector Common Part Number

##### (1) Injector Exchange Information

| Injector Part Number | Compatible Number | Compatible Number | OE Number   |
|----------------------|-------------------|-------------------|-------------|
| AB1822803C1          | 80305650396       | AB1825125C2       | 80305650344 |

##### (2) Injector Application Information

| Car Model | Engine | Engine |
|-----------|--------|--------|
| FORD      | F250   | F350   |
| Truck     | MTU    | /      |

##### (3) Injector Part Number Common Writing

AB1822803C1, 80305650396, AB1825125C2, 80305650344

#### 1.3. AB1822803C1 Injector Parameter

Adaptation System: Common Rail System

Injector Series: MTU Series

Injector Type: Diesel Injector

Vehicle Information: MTU Engines

#### 1.4. AB1822803C1 Injector Specifications and Dimensions

Injector Size: 34cm\* 13cm \*13cm =5746cm<sup>3</sup>

Injector Net Weight: 1.37kg

Injector Gross Weight: 1.4kg

Injector Quality: Re-manufactured

Injector Package Size: 35 cm\* 15cm \*15 cm = 7875cm<sup>3</sup>

Injector Type: Diesel Injector

Injector MOQ: 4 Pieces

#### 1.5. AB1822803C1 Injector Quality Control

##### (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



For 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.

### (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 more than three times for factory inspection, and the fuel injector installation testing environment are progressed in dust-free workshop.

#### 1.6. AB1822803C1 Injector Customized Service

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

|   |  |
|---|--|
|  |  |
| <p>Injector Nozzle Engraving</p>  | <p>Injector House Lettering<br/>And QR Code</p>                                    |

#### (2) Injector's Customized Service Requirements:

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




The quantity of customized injector packages shall not be 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 fuel injector is sold, it cannot be returned or exchanged if there is no quality problem.**

#### 1.7. AB1822803C1 Injector Packing List and Package Size

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

| No.         | 1   | 2  | 3   |
|-------------|---|--|---|
| Image       |  |  |  |
| Name        | Fuel injector   | Nozzle Protective Cover  | VCI Anti-rust Bag   |
| Description | Fuel injector part number:<br>AB1822803C1   | Protect nozzle holes from<br>being polluted and<br>blocked                           | Prevent fuel injector from<br>rusting   |

| No.         | 4   | 5  | 6   |
|-------------|---|--|---|
| Image       |  |  |  |
| Name        | Lining  | Oil Absorbing Paper  | Injector Packing Box  |
| Description | Prevent the injector from being damaged by external forces                        | To prevent oil leaks   | Place injector and injector accessories   |

- ⚠ Minors are forbidden to use the fuel injector assembly, O-ring, nozzle protective cover, fuel injector house protective cover, fuel return cover, VCI anti-rust bag, and air bubble bag to avoid personal injury.
- ⚠ O-ring and nozzle gasket are disposable installation accessories, and need to be replaced for re-installation.
- ⚠ The nozzle protective cover, the injector house protective cover, and the fuel return cover are recyclable accessories that can be reused.
- ⚠ VCI anti-rust bags and bubble bags are non-degradable materials, please dispose them properly after using.
- ⚠ The injector and the installation parts should be coated with appropriate sealing oil during installation.

**(2) Injector Box Size**



| No. | Name         | Injector Package Size (cm) |
|-----|--------------|----------------------------|
| 1   | Injector Box | 35*15*15                   |

**1.8. AB1822803C1 Injector Testing Standard and Certificate**

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



**1.9. AB1822803C1 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 AB1822803C1 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 AB1822803C1 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.

**▲ 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.
- Injector failure caused by high temperature, high pressure, humidity, rain and snow, saline-alkali land, earthquake, and used in abnormal environment.
- 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 system voltage exceeding approved voltage.
- 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.

## 1.10. AB1822803C1 Injector Manufacturer

**Injector's Manufacturer:** Shenzhen Shumatt Technology Co., Ltd

## 2. AB1822803C1 Injector Technical Support

### 2.1. AB1822803C1 Injector Part Number Location

1) E.g.: See the injector part number as follows

| No. | Name                     |
|-----|--------------------------|
| A   | Brand, Logo, Part Number |



## 2.2. AB1822803C1 Injector Installation

### (1) AB1822803C1 Injector Installation Precautions:

- ▲ The replacement of the 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.
- ▲ Strictly follow the operation manual of 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 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, so that to ensure the service life of the engine and the normal operation of the injector.
- ▲ When installing the injector on the engine, it is necessary to clean the engine block, cylinder head and other parts connected to the injector, and ensure that there is no dust, carbon deposits, water, rust spots, etc.
- ▲ Before installing, check whether the injector nozzle gasket has been replaced and installed on the injector.
- ▲ When installing the injector, apply lubricant between the injector, injector nozzle sealing gasket and O-ring.
- ▲ If new a gasket is not replaced, it 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 injector and nozzle to break and cause damage to the engine.
- ▲ When installing the injector on the engine, please carefully check the components related to the installation of the injector to ensure they are not deformed, such as the injector pressure plate, screw, injector rod and other accessories, 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.
- ▲ It is forbidden to operate the bare injector for a long time in a strong magnetic field environment.

## 2.3. AB1822803C1 Injector Reasons for Not Working Normally

- (1) There is air in the oil circuit of the engine fuel system.
  - (2) Vehicle injector fuel 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.
- ▲ Before installing, carefully check whether other components in the common rail system except the fuel injector are damaged to prevent the fuel injector from not working properly after being replaced.

## 2.4. AB1822803C1 Injector Causes of Being Damaged

- (1) Didn't operate properly according to engine maintenance manual during disassembly or installation, 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 result 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.

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

## 2.5. AB1822803C1 Injector Technical Support Obtaining Methods

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

**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](https://www.youtube.com/channel/UCByvYBx7VjV_mAfxh_Hu-aw) to get the technical videos, constantly follow can get more information.

**Shumatt:** Visit <http://shumatt.com> to get the technical videos.

- (3) 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
- (4) Search The fuel injector test data through TruckBook Parts EPC APP.

## 3. AB1822803C1 Injector Purchase and Delivery

### 3.1. AB1822803C1 Injector Purchase Payment Term

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

▲ Please contact our salesmen for specific payment information.

### 3.2. AB1822803C1 Injector Main Sales Markets

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

### 3.3. AB1822803C1 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. AB1822803C1 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. AB1822803C1 Injector Lead time**

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

**3.6. AB1822803C1 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, subjects are according to the actual arrival.**

**3.7. AB1822803C1 Injector Packing**

**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 protective film, such as picture No. 3.

**Pallet Shipping :** Use fumigation free and recycling trays that meet export requirements, and use white



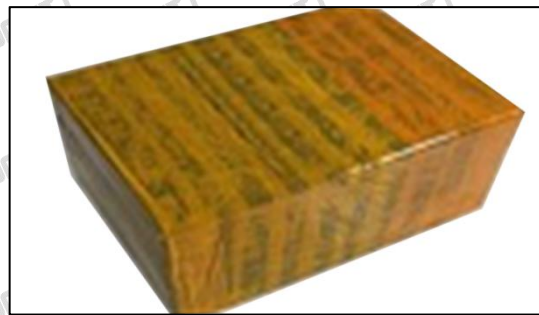
wrapping protective film to wrap and bind with cable ties for the outside, such as picture No. 4, also, the products can be packaged according to customers' requirements.

- ▲ The packing tray is made of plastic and can be recycled.
- ▲ Transparent tape, yellow tape, black wrapping protective film, white wrapping protective film are non-degradable materials, please dispose of them properly.
- ▲ Minors are prohibited from using transparent tape, yellow tape, black wrapping protective film, and white wrapping protective film to avoid personal injury.



Pic No. 1

**Domestic express packaging:**  
Wrapped with Transparent tape



Pic No. 2

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



Pic No. 3

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

#### 4. AB1822803C1 Injector Storage Standard

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

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 acids, alkalis, 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 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

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 acids, alkalis, salt, and other substances together with the injector.
- ▲ The unpacked fuel injector 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

 **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: [1.9. AB1822803C1 Injector Warranty Instructions](#))

## 5.2. Salesmen's Contact Information

| No. | Name                         | WeChat/WhatsApp | Email               |
|-----|------------------------------|-----------------|---------------------|
| 1   | Ruby                         | +86-13410541523 | ruby@shumatt.com    |
| 2   | Ivy                          | +86-18025299821 | sales@shumatt.com   |
| 3   | Rebecca                      | +86-18025349821 | sales01@shumatt.com |
| 4   | Janny                        | +86-18028749821 | sales02@shumatt.com |
| 5   | Sam                          | +86-13316859821 | Sales8@shumatt.com  |
| 6   | Natalie                      | +86-18938945856 | sales15@shumatt.com |
| 7   | Ada                          | +86-1342286353  | sales5@shumatt.com  |
| 8   | Hison Li                     | +86-18318811871 | web@shumatt.com     |
| 9   | Mecca                        | +86-18938948618 | sales11@shumatt.com |
| 10  | Eric                         | +86 18319033618 | sales3@shumatt.com  |
| 11  | Wayne ( Joaquín en español ) | +86-13316959821 | wayne@shumatt.com   |
| 12  | Sylvia                       | +86 18312499884 | sales6@shumatt.com  |

Visit <http://shumatt.com> to obtain the latest information of salesmen

**PS:** Shumatt's salesmen's emails are all end with [@shumatt.com](#)

## 6. Copyright Statement

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