

F00RJ02044 Injection Valve Set Technical File
SKU: G1L10F00RJ02044

OTHER SERIES
**INJECTION
VALVE
SET**



F00RJ02044 Injection Valve Set Technical File

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F00RJ02044 Injection Valve Set Technical File

1. F00RJ02044 Injection Valve Set Introduction

The injection valve set is a critical component of the injector system, comprising the valve stem and valve cap. It is housed in the control room within the injector body and plays a pivotal role in controlling oil injection and return. This set is not only a core component but also prone to high damage rates.

Valve Cap Inspection: Use a microscope to inspect the contact surface between the valve cap and the ball for any signs of damage. If damage is detected, the valve cap should be replaced promptly.

Valve Stem Inspection:

Top of Valve Stem: Examine the top of the valve stem for any surface damage. A change in the original silver color to white indicates damage, necessitating a replacement.

Contact Area with Injector: Similarly, inspect the valve stem's contact area with the injector for surface damage. Any change from the original silver color to white indicates the need for replacement.

1.1. F00RJ02044 Injection Valve Set Basic Information

| Title | F00RJ02044 Injection Valve Set China Made New |
|-------|-----------------------------------------------|
| SKU | G1L10F00RJ02044 |

1.2. F00RJ02044 Injection Valve Set Application Information

1) F00RJ02044 Injection Valve Set Adapted Vehicle Information

| Injector Part Number | Car Model | OE Number |
|----------------------|-----------|-----------|
| 0445120118 | / | / |

2) F00RJ02044 Injection Valve Set Adapted injector Information

| Injector Series | Injector Part Number | Universal Number | Universal Number | Pressure |
|-----------------|----------------------|------------------|------------------|----------|
| CRIN3-18 | 0445120118 | 0445120143 | / | / |

3) F00RJ02044 Injection Valve Set Part Number Common Writing

F00RJ02044, FOO RJ02044, F 00R J02 044, F OOR J02 044, F00R J02 044, FOOR J02 044, FOORJ02044, F 00R J02044, F OORJ02044, F 00RJ02044, F OORJ02044, F00R J02044, FOORJ02044

1.3. F00RJ02044 Injection Valve Set Specifications and Dimensions Parameters

Injection Valve Set Size: 11cm*18cm *3 cm

Injection Valve Set Box Size: 12 cm *19 cm *4 cm

Injection Valve Set Net Weight: 0.02kg

Injection Valve Set Gross Weight: 0.05kg

Injection Valve Set Quality: China Made New

Injection Valve Set MOQ: 4PCS

1.4. F00RJ02044 Injection Valve Set Quality Control

1) Injection Valve Set Testing

All parts of the injection valve set have undergone precision testing, high temperature testing, low temperature testing, withstand pressure testing, leakage testing, durability testing, and various working conditions testing.

2) Injection Valve Set Inspection

The factory inspection of the injection valve set is undergone three inspections: full inspection, random inspection, and batch inspection. Different brands of test benches are used to test the same injection valve







set for more than three times for factory inspection, and the injection valve set 's installation and testing environment are progressed in dust-free workshop.

3) Injection Valve Set 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 injection valve set meets the factory standards and use standards.

1.5. F00RJ02044 Injection Valve Set Customized Service

1) **Injection Valve Set Customized Service Coverage:** Meet the customized needs of OEM manufacturers for valve color and lustre, valve cap groove customization, valve cap lettering ,valve cap logo engraving, valve cap QR code engraving, injection valve set internal packaging, injection valve set external packaging and label customization needs.

| No. | 1 | 2 |
|-------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Image |  |  |
| Name | Valve Cap Color And Lustre | Valve Cap Color And Lustre |
| Description | Customized 1000 pieces (white color is optional) | Customized 1000 pieces (purple red color is optional) |
| No. | 3 | 4 |
| Image |  |  |
| Name | Valve Cap Groove Customization | Valve Cap Lettering, Logo Engraving, QR Code Engraving Customization |
| No. | 5 | 6 |
| Image |  |  |
| Name | Valve Set Box | Valve Set Box |
| Description | Rectangle is optional | Cylindrical is optional |
| No. | 7 | 8 |
| Image |  |  |
| Name | Valve Set Bag | Valve Set Label 7cm*5cm |

2) Injection Valve Set Customized Service Requirements:

The purchase of **customized injection valve set package** is no less than 100 pieces.

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

The purchase of **customized valve set** 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 pstemucts 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 injection valve set is sold, it can not be returned or exchanged if there is no quality problems.

1.6. F00RJ02044 Injection Valve Set Spare Parts & Packing List

| No. | 1 | 2 |
|-------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Image |  |  |
| Name | Injection Valve Set | Injection Valve Set Anti-rust Paper |
| Description | Injection valve set part number F00RJ02044 | Prevent the injection valve set from rusting |
| No. | 3 | 4 |
| Image |  |  |
| Name | Injection Valve Set Box (Rectangle) | Injection Valve Set Box (Cylindrical) |
| Description | Protect the injection valve set from being damaged by colliding | Protect the injection valve set from being damaged by colliding |
| No. | 5 | 6 |
| Image |  | / |
| Name | VCI Anti-rust Bag | / |
| Description | Prevent the injection valve set from rusting | / |

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

⚠ The Valve Set box is recyclable and can be reused.

⚠ VCI anti-rust bag is non-degradable material, please dispose of it properly after use.

1.7. **FO0RJ02044** Injection Valve Set Warranty Instructions

1) **Injection Valve Set Warranty Conditions and Instructions**

It is necessary to provide pictures, videos, or test reports detected by the injection valve set inspection equipment when the valve set 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 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 piston problem, it is within the scope of the subsidy.

2) **Injection Valve Set Warranty Coverage**

Within 15 days after customer receives the **FO0RJ02044** injection valve set, if there is a performance failure and the piston has no appearance damage, customer can choose to replace it;

If the **FO0RJ02044** injection valve set has performance problems during the warranty period (6-12 months), and it is confirmed that it is piston's problems after being tested, you can contact our salesmen to replace the same model for free;

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

3) **Injection Valve Set Out of Warranty Coverage**

① The warranty period has expired, not covered by warranty.

② Injection valve set failure caused by high temperature, high pressure, humidity, rain and snow, saline-alkali land, earthquake, and used in abnormal environment.

③ Injection valve set damage caused by man-made reasons (throwing, strong magnetic field magnetization, set fire).

④ Injection valve set failure or injector damage caused by non-injector design, technology, manufacturing, quality and other issues.

⑤ Injection valve set failure due to system pressure exceeding system approved pressure.

⑥ Injection valve set failure caused by impurities (water, lead, aluminum powder, iron powder, sulfide) in the system fuel exceeding the standard requirements.

⑦ Injection valve set 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).

⑧ Injection valve set failure caused by not following the installation angle specified in the injector maintenance manual.

⑨ Injection valve set failure caused by not following the cleaning requirements specified in the injector maintenance manual.

⑩ Injection valve set failure caused by failure to replace consumable parts as specified in the injector maintenance manual.

1.8. **FO0RJ02044** Injection Valve Set Storage Standard

1) **Choose a Suitable Storage Place**

The warehouse and cargo yard where the fuel injection valve set 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 injection valve set 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 Set placed in the room, and the corrosion of the fuel injection valve set is significantly reduced.

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

If the injection valve set 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 injection valve set exposed in the air for a long time.

⚠ It is forbidden to store acid, alkali, salt and other substances together with the injection valve set.

⚠ The unpacked injection valve set must be rust-proof during secondary storage.

2. F00RJ02044 Injection Valve Set Technical Support

2.1. F00RJ02044 Injection Valve Set 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.

| No. | 1 | 2 | 3 |
|-------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image |  |  |  |
| Description | Injection valve cap oil inlet hole location | Injection valve cap oil return hole location | The oil inlet and oil return holes of the injection valve cap are free of wear, grooves, scratches, damage, rust, dents, which do not need to be replaced |
| No. | 4 | 5 | 6 |
| Image |  |  |  |
| Description | The injection valve cap oil hole is recessed and needs to be replaced | The injection valve cap oil hole is worn and needs to be replaced | The injection valve cap oil hole is punched and needs to be replaced |




⚠ 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

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

2) Valve Stem

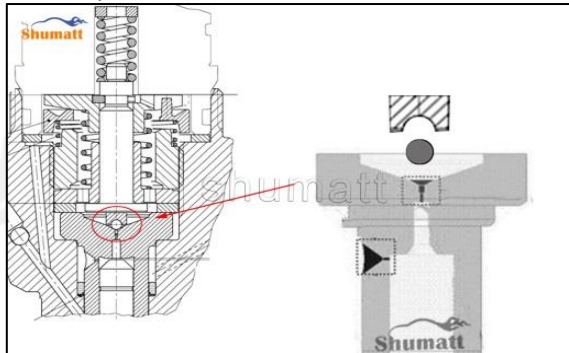
Magnify 20 times under a microscope to check whether the valve stem is worn, the surface is not smooth, discolored, or rusty.

| No. | 1 | 2 | 3 |
|-------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Image |  |  |  |
| Description | The valve stem is worn out and needs to be replaced | The valve stem surface is not smooth and colorless, and it needs to be replaced | The valve stem is rusty and needs to be replaced |

- ⚠ The excessive clearance between the valve stem wear, housing and the valve cap will causes injector lag.
- ⚠ 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.
- ⚠ Check the injector components before replacing the injection valve set according following the injector service manual to avoid further damage to the injection valve set after replacement.

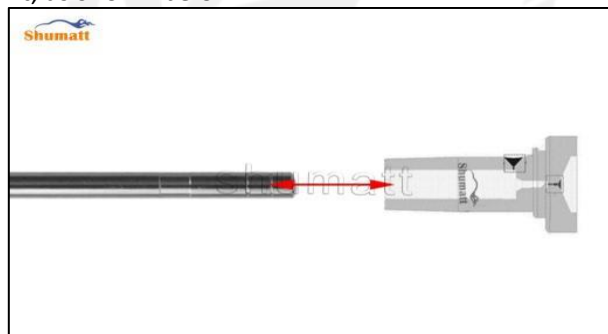
2.2. F00RJ02044 Injection Valve Set Installation Precautions

- 1) Clean the injection valve set 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 injection valve set fall off.
- 2) Use compressed air to clean the cleaning fluid attached to the surface of the injection valve set after cleaning, and clean it up to the standard of use.
- 3) 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 below:



Pic No.1

- 4) 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 shown below:



Pic No.2

- 5) When installing the injection valve set, 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 injection valve set.

2.3. F00RJ02044 Injection Valve Set installation Steps

- (1) Use the special installation tools for the sealing ring and support ring (CRT029) to put them into the injector body, as shown in figure 1



Figure 1

- (2) Place the valve set into the injector and install the valve assembly into place using the special tools in (CRT029), as shown in figure 2



Figure 2

- (3) Take out the buffer spring steel ball and ball seat and set them aside, as shown in figure 3



Figure 3

- (4) Place the armature travel adjustment gasket into the injector, as shown in figure 4

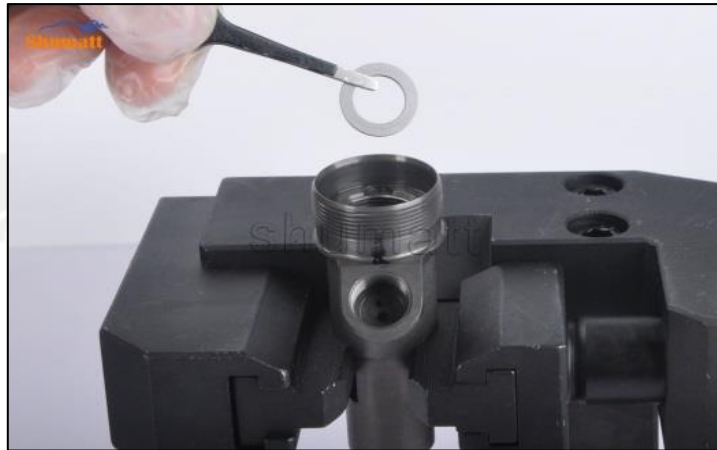


Figure 4

- (5) Place the armature core into the injector, as shown in figure 5



Figure 5

- (6) Place the lower plate into the injector, as shown in figure 6



Figure 6

- (7) Place the lock nut into the injector, as shown in figure 7



Figure 7

- (8) Use the special tool for locking nuts in (CRT029) to tighten the locking nuts to 65 Nm, as shown in figure 8



Figure 8

- (9) Insert the armature, as shown in figure 9



Figure 9

- (10) Press the armature plate downward so that the opening buffer stroke adjustment gasket can be stuck in the slot on the armature core, as shown in figure 10



Figure 10

- (11) Insert the armature stroke adjustment shim, as shown in figure 11



Figure 11

- (12) To measure the stroke without buffer spring, steel ball and ball seat, use the CRT220 tool (Tool No. 1), as shown in figure 12



Figure 12

(13) Install the measuring tool on the injector and reset it to zero, as shown in figure 13



Figure 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 buffer stroke value (15-45um). If it is greater than the normal value, reduce the buffer stroke adjustment gasket. If it is less than the normal value, thicken the buffer stroke adjustment gasket, as shown in figure 14



Figure 14

(15) Reset the measuring tool to zero, as shown in figure 15



Figure 15

- (16) The value reached by pressing the gauge rod is the armature stroke (45-55um). If it is greater than the normal value, reduce the armature stroke adjustment gasket. If it is less than the normal value, thicken the armature stroke adjustment gasket, as shown in figure 16



Figure 16

- (17) Replace the measuring tool with the CRT220 tool (Tool No. 5) and reset to zero, as shown in figure 17



Figure 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 figure 18



Figure 18

- (19) Measure the distance from the injector end armature plate plane to the remaining air gap adjustment gasket again and record it as B (5498), as shown in figure 19



Figure 19

- (20) Residual air gap = A data - B data. The value of the residual air gap is 45-55Nm. If it is greater than the normal value, reduce the residual air gap stroke adjustment gasket. If it is less than the normal value, thicken the residual air gap stroke adjustment gasket, as shown in figure 20



Figure 20

- (21) Place the solenoid valve spring into the injector, as shown in figure 21



Figure 21

(22) Place the solenoid valve spring adjustment gasket into the injector, as shown in figure 22



Figure 22

(23) Tighten the solenoid valve to a 45 degree angle, as shown in figure 23



Figure 23

(24) Use an open-end wrench to tighten the solenoid valve cap to 35 Nm, as shown in figure 24



Figure 24

2.4. F00RJ02044 Injection Valve Set Technical Support Obtaining Methods

- 1) Injection Valve Set Technical Data: <https://www.injectionvalveset.com/download/>
- 2) Injection Valve Set Videos: <https://www.injectionvalveset.com/videos/>
- 3) Injection Valve Set Encyclopedia: <https://www.injectionvalveset.com/category/news/encyclopedia/>

3. F00RJ02044 Injection Valve Set Purchase and Delivery.

3.1. F00RJ02044 Injection Valve Set Purchase Payment Terms

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

⚠ Please contact our salesmen for specific payment information.

3.2. F00RJ02044 Injection Valve Set Main Sales Market.

Injection Valve Set main sales markets: Asia, Europe, North America, South America, Africa etc.

3.3. F00RJ02044 Injection Valve Set Declaration Requirements

We 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. F00RJ02044 Injection Valve Set 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. F00RJ02044 Injection Valve Set Lead Time

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

3.6. F00RJ02044 Injection Valve Set Logistics Time for Destination Out of China's Areas

DHL Logistics Time:

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

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

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

| | | | | | |
|-----------|-----------|---------|-----------|----------|-----------|
| Denmark | 5-7 Days | Belgium | 5-7 Days | Ukraine | 7-10 Days |
| India | 7-10 Days | Qatar | 7-10 Days | Poland | 5-7 Days |
| Indonesia | 3-5 Days | Morocco | 7-10 Days | Pakistan | 7-10 Days |
| Kuwait | 7-10 Days | / | / | / | / |

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

3.7. F00RJ02044 Injection Valve Set 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 pstemucts can be packaged according to customers' requirements.

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


| No. | Image | Name | Description |
|-----|-------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1 |  | Domestic Express Packaging | Wrapped by Transparent tape |
| 2 |  | International Express Packaging | Wrapped with yellow tape after wrapping black protective film |
| 3 |  | 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.3


4.1. Company Introduction

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


 **HK Telephone:** +852-67653519

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

 **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: [1.7. F00RJ02044 Injection Valve Set Warranty Instructions](#))

4.2. Contact Information

| Name | WeChat/ WhatsApp |
|------|------------------|
| Ruby | +86-13410541523 |

5. Copyright Statement

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