

E1/E3/ SMART Series

# ND-DLLA158P1096 CRDI Injector Nozzle Technical Data

# SKU: Y2Z18NDDLLA158P



# EUI NOZZLE Diesel Injector Parts



# ND-DLLA158P1096 CRDI Injector Nozzle Technical Data

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# ND-DLLA158P1096 CRDI Injector Nozzle Technical Data

#### 1. ND-DLLA158P1096 CRDI Injector Nozzle Introduction

#### 1.1. ND-DLLA158P1096 CRDI Injector Nozzle Basic Information

Title	Common Rail ND-DLLA158P1096 CRDI Injector Nozzle	Quality
SKU	Y2Z18NDDLLA158P	Original New

#### 1.2. ND-DLLA158P1096 CRDI Injector Nozzle Common Written Part Number

	CRDI Injector Nozzle OE Number	CRDI Injector Nozzle Engraved Number
1P	093400-1096	ND-DLLA158P1096

# 1.3. ND-DLLA158P1096 CRDI Injector Nozzle Application Information for Injectors (1) ND-DLLA158P1096 CRDI Injector Nozzle Applicable Injectors Part Number

Injector Part Number	Alternative Part Number	OEM	OEM
/	095000-8901	095000-5471	/
/	095000-5470	095000-5473	/
/	095000-5474	/	2.0 1

#### (2) ND-DLLA158P1096 CRDI Injector Nozzle Car Model Matching Information

Vehicles/equipment where components are installed for the	first time	Manufacturer
ISUZU 4HK1/6HK1		1

#### (3) ND-DLLA158P1096 CRDI Injector Nozzle Part Number Common Writing

ND-DLLA158P1096, ND-DLLA 158 P 1096, ND-DLLA158 P 1096, ND-DLLA158P 1096, ND-DLLA 158P 1096, ND-DLLA 158 P 1096, ND-DLLA158 P 1096, DLLA158 P 1096, OS3400-1096, OS34001096

#### 1.4. ND-DLLA158P1096 CRDI Injector Nozzle Specifications and Dimensions Parameters

CRDI Injector Nozzle Size: 6 cm\*1.5cm \*1.5 cm CRDI Injector Nozzle Barrel Dimensions: 7 cm \*2 cm \*2 cm Single CRDI Injector Nozzle Weight: 0.03kg CRDI Injector Nozzle 10 PCS Per Box: 10 cm \*8 cm \*4cm CRDI Injector Nozzle Weight 10 PCS Per Box : 0.3kg CRDI Injector Nozzle Quality: Original New CRDI Injector Nozzle MOQ: 10 PCS



# 1.5. ND-DLLA158P1096 CRDI Injector Nozzle Packing List

CRDI Injector Nozzle Spare Parts List

No.	1	2	3	
Image			共轨喷油嘴 Common Rail Injector Nozelo シーン メ马供机	
Name	CRDI Injector Nozzle Assy	Nozzle Tube	CRDI Injector Nozzle Box	
Description	CRDI Injector Nozzle Part Number ND-DLLA158P1096	Prevent Nozzle Rusting and Damaging From Collision	10 PCS/Box	

Minors are prohibited to use fuel CRDI injector nozzle assembly, nozzle packing box to avoid injury.

**CRDI** injector nozzle box is recyclable and can be reused.

**A** CRDI injector nozzle barrels is non-degradable material, please dispose of it properly after use.

#### 1.6. ND-DLLA158P1096 CRDI Injector Nozzle Customized Service

(1) CRDI Injector Nozzle Customized Service: Meet the customized needs of OEM manufacturers for shell lettering (logo, nozzle part number, date and series number), nozzle without lettering, nozzle tube, nozzle box customized etc.



#### (2) CRDI Injector Nozzle Customized Service Quantity Requirements:

The purchased of customized CRDI injector nozzle shell lettering or without lettering are no less than 100 pieces.

The purchased of customized CRDI injector nozzle tubes are no less than 2000-3000 pieces.

The purchased of customized CRDI injector nozzle boxes are no 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 data.

• Once the customized CRDI injector nozzle is sold, it can't be returned or exchanged if there is no quality problems.



#### 1.7. ND-DLLA158P1096 CRDI Injector Nozzle Quality Control

#### (1) CRDI Injector Nozzle Testing

All the CRDI injector nozzles are subjected to precision testing, high temperature testing, low temperature testing, withstand pressure testing, leakage testing, durability testing, and various working conditions testing.

#### (2) CRDI Injector Nozzle Inspection

The factory inspection of the CRDI injector nozzle is undergone full inspection, random inspection, and batch inspection three inspections. Different brands of test benches are used to test the same CRDI injector nozzle for a total of no less than three times for factory inspection, and the fuel injector installation testing environment are progressed in dust-free workshop.

#### (3) CRDI Injector Nozzle Installation

When matching the CRDI injector nozzle body and nozzle needle, Shumatt strictly complies with the standard of CRDI injector nozzle body and nozzle needle clearance technical indicators to ensure that each CRDI injector nozzle meets the factory standards and use standards.

#### 1.8. ND-DLLA158P1096 CRDI Injector Nozzle Warranty Instructions

#### (1) CRDI Injector Nozzle Warranty Conditions And Instructions

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

Within 15 days after customer receives the ND-DLLA158P1096 CRDI injector nozzle if there is a performance failure and the product has no appearance damage, customer can choose to replace it or repair it;

If the ND-DLLA158P1096 CRDI injector nozzle 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.

#### (3) CRDI Injector Nozzle Out of Warranty Coverage

① The warranty period has expired.

② CRDI injector nozzle failure caused by high temperature, high pressure, humidity, rain and snow, saline-alkali land, earthquake, and used in abnormal environment.

③ CRDI injector nozzle damage caused by man-made reasons (throwing, strong magnetic field magnetization, set fire).

④ CRDI injector nozzle failure or injector damage caused by non-injector design, technology, manufacturing, quality and other issues.

- ⑤ CRDI injector nozzle failure due to system pressure exceeding system approved pressure.
- 6 CRDI injector nozzle failure caused by system voltage exceeding approved voltage.

⑦ CRDI injector nozzle failure caused by impurities (water, lead, aluminum powder, iron powder, sulfide) in the system fuel exceeding the standard requirements.

8 CRDI injector nozzle 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).

(9) CRDI injector nozzle failure caused by not following the installation angle specified in the injector maintenance manual.

(1) CRDI injector nozzle failure caused by not following the cleaning requirements specified in the injector maintenance manual.

11 CRDI injector nozzle failure caused by failure to replace consumable parts as specified in the injector maintenance manual.



#### 1.9. ND-DLLA158P1096 CRDI Injector Nozzle Manufacturer

CRDI Injector Nozzle Manufacturer: Shenzhen Shumatt Technology Co., Ltd

#### 2. ND-DLLA158P1096 CRDI Injector Nozzle Technical Support

#### 2.1. ND-DLLA158P1096 CRDI Injector Nozzle Installation Precautions

- (1) Clean the CRDI injector nozzle 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 CRDI injector nozzle fall off.
- (2) Use compressed air to clean the cleaning fluid attached to the surface of the CRDI injector nozzle after cleaning, and clean it up to the standard of use.

#### 2.2. ND-DLLA158P1096 CRDI Injector Nozzle Inspection

(1) Check whether there is deformation, cracking, thread damage, quenching, leakage and rust in the guide sleeve, spring, gasket and tight cap of the nozzle. The tight cap of the nozzle must be replaced after being disassembled for more than 5 times, as shown in the following.



Pic No.1

- (2) Replace the tight cap of the nozzle and the copper gasket of the CRDI injector nozzle.
- (3) Check whether the gap between the nozzle needle and the nozzle shell is within the standard range and whether it reaches the standard for use.

All parts should be examined for wear under a microscope at least 20 times larger.

- Nozzle tight cap deformation, cracking, thread damage, quenching, leakage, will lead to black smoke vehicle cap, fuel injector damage.
  - Injector opening pressure greater than or less than the specified range may cause injector damage.

Failure to replace wearing parts in time during maintenance may lead to fuel injector damage.

#### 2.3. ND-DLLA158P1096 CRDI Injector Nozzle Test Measurement

(1) Nozzle opening pressure test

Test whether the opening pressure range of the nozzle is within the range specified in the injector maintenance manual (to be verified), if not within the normal range, adjust the nozzle spring to adjust the gasket

If the value is greater than normal, reduce the oil nozzle spring adjusting gasket; if the value is less than normal, increase the oil nozzle spring adjusting gasket.

#### (2) Stroke Measurement of Nozzle Needle Valve

Use a measuring tool to measure whether the stroke of the nozzle needle valve is within the range (<mark>15-</mark> <mark>45um</mark>) specified in the injector maintenance manual. If not, adjust the stroke of the nozzle to adjust the gasket.





Pic No.2

If the value is greater than normal, thicken the gasket for oil-nozzle needle valve lift adjustment; if the value is less than normal, reduce the gasket for oil-nozzle needle valve lift adjustment.

#### 2.4. ND-DLLA158P1096 CRDI Injector Nozzle Installation

(1) Tightening torque of CRDI Injector Nozzle

The torque lever and tightening moment specified in the injector maintenance manual must be installed when the CRDI injector nozzle is installed. (50Nm)

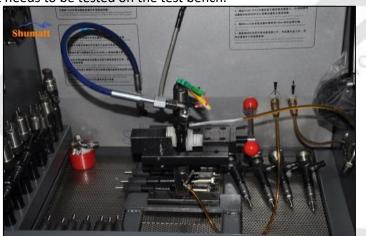


Pic No.3

The tightening torque of the nozzle cap must be installed in accordance with the tightening torque specified in the injector maintenance manual.

#### 2.5. ND-DLLA158P1096 CRDI Injector Nozzle Testing After Maintenance

(1) After installation, it needs to be tested on the test bench.





### The correct injector type should be selected for testing

(2) The test results need to be ensured that the following items are within the standard data range of the test stand.

LEAK TEST: Test whether sealing test is up to standard or not



In this step, no injector collector should be installed at the nozzle during the test so as to observe whether the nozzle is dripping oil, meanwhile observe that all joints are no oil leaking.

The static oil return of the test should not exceed 8mm2/H, otherwise, you need to check whether the high-pressure sealing ring, valve assembly, and stroke parameters of the injector are within the standard range.

#### VL: Test whether full load oil (main injection, high speed) is up to standard or not

This step needs to be combined with vehicle driving conditions, such as power, fuel consumption and smoke as well as the maintenance of the engine, if there is situation of insufficient power, fuel consumption is high, thick black smoke and irregularly maintenance of the engine, the engine needs to be maintained according to the maintenance handbook at very first time.

Each of injector part needs to be adjusted and checked if there is any damage according to above situations to ensure the injector is normal. After make sure the injector works normal, you need to reduce the armature stroke if too much oil injection, and increase the armature stroke if too little oil injection.

The error of each injector should be controlled in 6mm3/HH when adjusting.

TL\EM: Test whether the torque point, emission point, exhaust limit, fuel supply reach standard or not Through this test, it is detected that when the oil injection is too little, the engine's acceleration is slow, vice versa, when the oil injection is too much, the engine's acceleration will produce black smoke and the engine excessive exhaust emissions.

CRDI injector nozzle spring force gasket, armature stroke, lift gasket and solenoid valve spring force gasket determine whether exhaust restriction and injector fuel supply reach standard

#### LL: Test if the idle fuel supply reaches the standard

This test detects oil injection is too much will cause engine idle smoke, otherwise if the oil injection too little will cause engine idling easy to stall, or difficult to start.

The uneven of oil injection causes the unstable rotation speed of engine , making noise, and increase the engine swing in the acceleration process.

Each injector error should be controlled within 2mm3/HH when adjusting.

Idle speed fuel supply quantity mainly by adjusting the nozzle spring force gasket.

VE: Test whether the pre-injection meets the standard

This test detects when oil injection is too much will cause cylinder knocking while the engine is working and the exhaust emissions is not up to standard (smoke).

While when oil injection is too little will cause big noise while the engine is working, the engine is difficult to start, the engine weak acceleration, slow response of injector.

Each injector error should be controlled within 0.5mm3/HH when adjusting.

#### 2.6. ND-DLLA158P1096 CRDI Injector Nozzle List of Tools Used During Measurement and Installation

Image	shu: it	STIC PIERS	shumati
SKU	CRT084	CRT220	CRT079
Description	Torque wrench: 19-110nm 1/2 It is used to control tightening force and angle during installation	Fuel injector stroke measuring tool: is used to measure buffer stroke of fuel injector, armature stroke and remaining air gap	Micrometer: is used to measure gasket thickness
Image			otte
SKU		CRT281	

Website : www.crdiinjectornozzle.com © 2024 Shenzhen Shumatt Technology Co., Ltd

G	P	D
6	EUIN	ozzle

Common rail injector test bench: check the injector working condition

#### 2.7. Causes of ND-DLLA158P1096 CRDI Injector Nozzle Being Damaged

- (1) Fuel CRDI injector nozzle failure caused by impurities (water, lead, aluminum powder, iron powder, sulfide) in fuel exceeding standard requirements.
- (2) The nozzle is normally worn due to long time working under high temperature.
- (3) Nozzle needle wear leads to oil hole blockage, insufficient fuel injection injector cannot work properly.

A Nozzle needle wear leads to oil hole blockage, insufficient fuel injection injector can't work properly.

The wear of the nozzle leads to the increase of fuel quantity, resulting in black smoke of the vehicle, and the fuel injector can't work properly when it is serious.

If the nozzle needle can't move smoothly stuck may cause serious damage to the CRDI injector nozzle

A The rusting of the nozzle spring leads to spring fracture and black smoke from the vehicle.

The opening pressure of the nozzle decreases, and the oil quantity of the injector increases, leading to black smoke of the vehicle, and the injector can't work properly when it is serious.

• Oil-nozzle needle valve lift adjustment gasket wear oil-nozzle needle valve stroke becomes larger, the fuel injector oil quantity becomes larger, resulting in black smoke of vehicles, resulting in the fuel injector can't work properly when serious.

lacksquare The cracking of the nozzle cap is caused by high intensity work under high temperature.

#### 2.8. ND-DLLA158P1096 CRDI Injector Nozzle Technical Support Obtaining Methods

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

#### 3. ND-DLLA158P1096 CRDI Injector Nozzle Purchase and Delivery

**3.1. ND-DLLA158P1096 CRDI Injector Nozzle Purchase Payment Methods Payment Methods:** T/T, PayPal, Alipay, WeChat

A Please **c**ontact our salesmen for specific payment information.

**3.2. ND-DLLA158P1096 CRDI Injector Nozzle Main Sales Market CRDI Injector Nozzle Main Sales Markets:** Asia, Europe, North America, South America, Africa etc.

3.3. ND-DLLA158P1096 CRDI Injector Nozzle 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. ND-DLLA158P1096 CRDI Injector Nozzle 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. ND-DLLA158P1096 CRDI Injector Nozzle Lead Time

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

# 3.6. ND-DLLA158P1096 CRDI Injector Nozzle Logistics Time for Destination Out of China's Areas DHL Logistics Time:

Country or Regio Departure		Hong Kong, Chi	ina	Other Countries or Regions of Asia	Australia and Zealand	New	Europe	America	Other Countries
China's Mainla	and	7 Days	;	7 Days	8 Days		8 Days	8- 12 Days	7-10 Days
S Logistics Time: Country or Region of Departure: Ch									
Country of Destination		mated al Time	Co	ountry of Destination	Estimated Arrival Time	Cou	intry of Desti	nation	Estimated Arrival Time
Japan	3	Days	2	UK	5-7 Days	9	Egypt		5-7 Days
Turkey	5-7	Days	. <u> </u>	Singapore 3 Days Swit		Switzerlan	d	5-7 Days	
Bahrain	5-7	' Days		Latvia	7-10 Days		New Zealar	nd	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	Uni	ted Arab Em	nirates	5-7 Days
Italy	5-7	' Days	6 m	Netherlands	5-7 Days	10	Bengal	A.	7-10 Days
Lebanon	5-7	' Days		Philippine	3-5 Days		Greece	OV	7-10 Days
South Korea	3	Days		Spain	5-7 Days		Myanmar		5-7 Days
Canada	5-7	' Days		Germany	5-7 Days		Saudi Arab	ia	7-10 Days
Portugal	5-7	Days		Australia	5-7 Days		South Afric	a	7-10 Days
Denmark	5-7	' Days		Belgium	5-7 Days		Ukraine		7-10 Days
India	7-1(	0 Days		Qatar	7-10 Days		Poland		5-7 Days
Indonesia	3-5	Days		Morocco	7-10 Days		Pakistan		7-10 Days
Kuwait	7-1(	0 Days		/	/		1	_	/

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

#### 3.7. ND-DLLA158P1096 CRDI Injector Nozzle 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 by 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. ND-DLLA158P1096 CRDI Injector Nozzle Storage Standard

#### (1) Choose a Suitable Storage Place

The warehouse and cargo yard where the CRDI injector nozzles are 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 injector nozzles 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 nozzles must be protected from damage.

#### (3) Keep The Warehouse Dry And Preventing Moisture

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

CRDI injector nozzles 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 nozzle 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 CRDI injector nozzle 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.

**A** It is forbidden to leave the CRDI injector nozzle exposed in the air for a long time.

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

A The unpacked diesel CRDI injector nozzle must be rust-proof during secondary storage.

#### 5. Company Information

- Office Locations
- Global Exhibitions

Pic No.8

#### 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 Mainland

Shenzhen Office: Exit C, Qiao Touxi 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: <u>1.8. ND-DLLA158P1096 Injector Warranty Instructions</u>)

#### 5.2. Contact Information

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

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