

BC-CR708 EUI EUP HEUI common rail diesel injector fuel injection pump test bench

(Standard configuration 11KW+380V 3 phase)





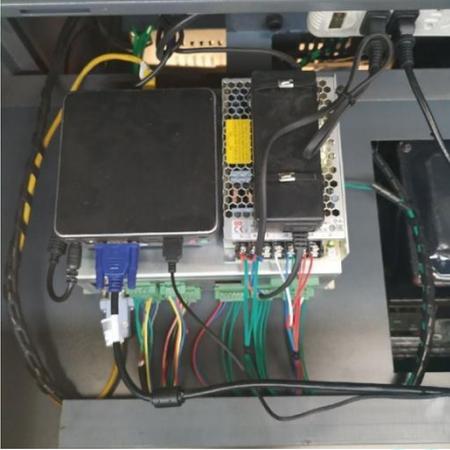
1.Machine dimension (L*W*H):190*78*156 cm

2.Packing dimension (L*W*H):201*91*173 cm

TECHNICAL PARAMETERS

1.Main motor speed:	0-4000 r / min can be adjustable
2.Motor power:	11KW, 15KW, 18.5KW optional
3.Fuel Injector open	12V/80V/150V Control accuracy
4.Voltage Control range:	phase adjustment
5.Injector opening	0-1000HZ Control accuracy: 1HZ
6.Frequency Control:	0-65535us
7.Fuel injector hold time control:	0-1000 times
8.Delivery oil count control accuracy:	1 times
9.Fuel pressure control	0-2400bar
10.Control accuracy:	1bar
11.Electronic power:	380v /220v 3 phase 220v 1 phase
12.Product size:	1.9*0.78*1.56M
13.Weight:	770KG(Contains cam box)

PRODUCT DETAILS



Control System



Filter



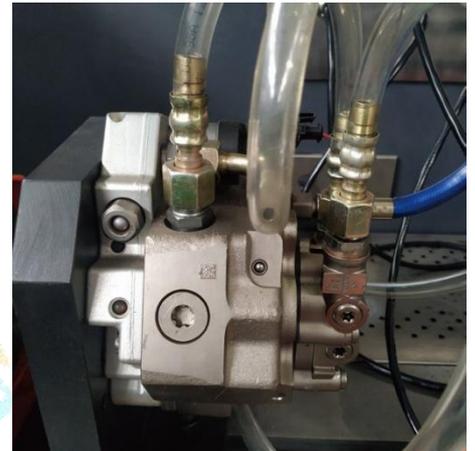
Flow Sensor



Cooling fan



Oil interface



Pump



Switch



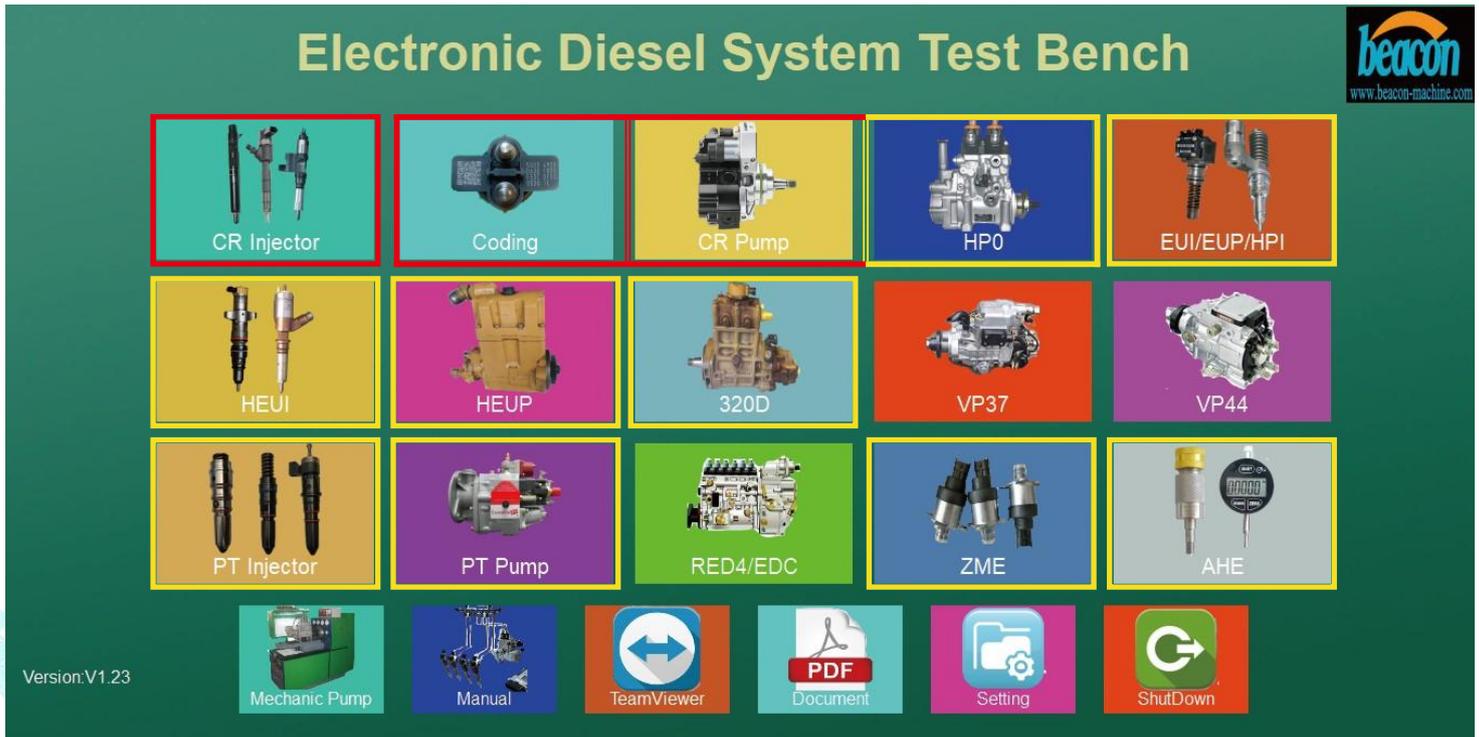
The electromagnetic valve



Binding postfilter

DIESEL COMMON RAIL SYSTEM SOFTWARE PART

1.Main interface



Basic function



Optional function

1.1 CR Injector

1.2 Coding

1.3 CR Pump

1.4 HP0

1.5 EUI/EUP/HPI

1.6 HEUI

1.7 HEUP

1.8 320D

1.9 VP37

1.10 VP44

1.11 PT Injector

1.12 PT Pump

1.13 RED4/EDC

1.14 ZME

1.15 AHE/Atomize

1.16 Mechanic Pump

1.17 Manual

1.18 TeamViewel

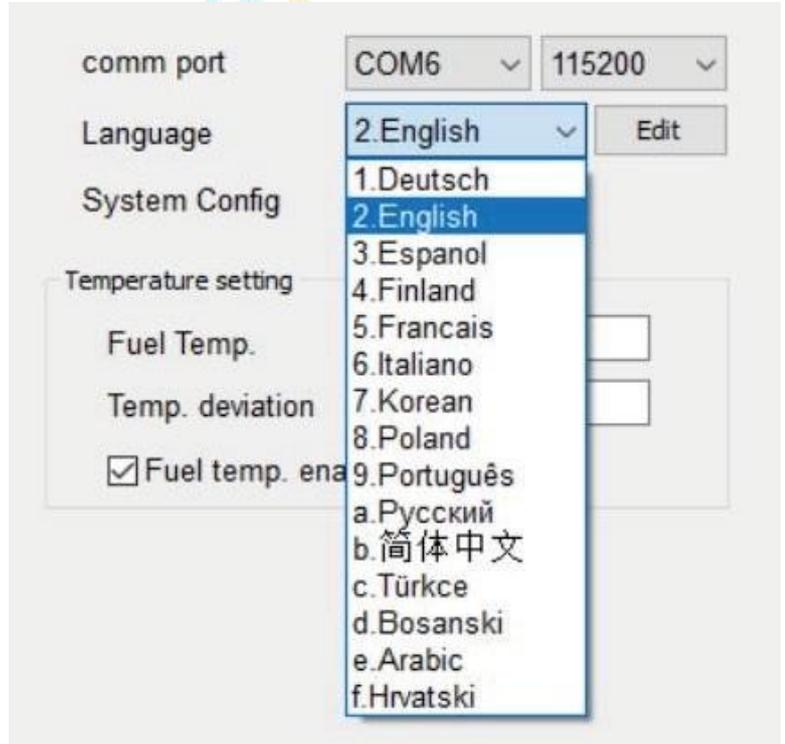
1.19 Document

1.20 Setting

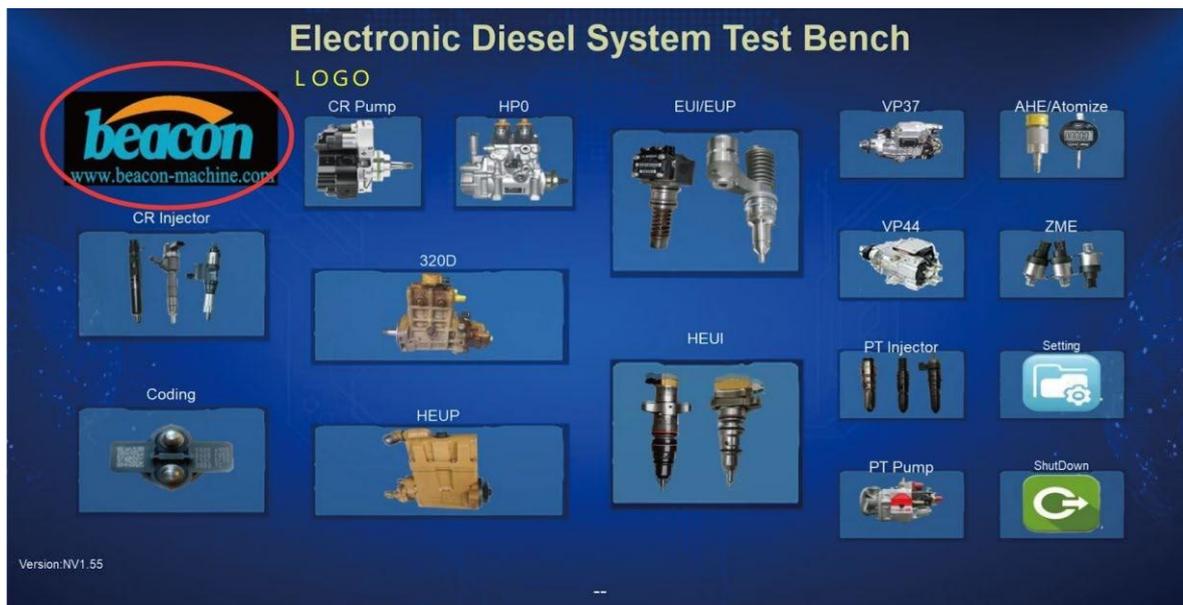
1.21 ShutDown

2.How many languages are there in the control system?

Software supports 15 languages, including Chinese, English, Spanish, Finnish, French, Italian, Korean, Polish, Portuguese, Russian, Simplified Chinese, Turkish, Bosnian, Araba, and Croatian.



Note: Other main interface options and **customer LOGO** can be customized.



BASIC FUNCTION

1. 11KW 380V 3 phase
2. Common rail injector + piezoelectric injector
3. Common rail pump
4. Denso HP0 pump
5. Injector coding

1.Common rail injectors test

(The latest system has 7543 injectors data, including Bosch 2493, Denso 4287, Siemens 171, Delphi 449, Carter 17, Cummins 54, MTU 19)

There are 7543 part numbers

Type-PN	Maker	Version
3483	Denso	Manufacturer
3484	Denso	Manufacturer
3485	Denso	Manufacturer
3486	Denso	Manufacturer
3487	Denso	Manufacturer
3488	Denso	Manufacturer
3489	Denso	Manufacturer
3490	Denso	Manufacturer
3491	Denso	Manufacturer
3492	Denso	Manufacturer
3493	Denso	Manufacturer
3494	Denso	Manufacturer
3495	Denso	Manufacturer
3496	Denso	Manufacturer
3497	Denso	Manufacturer
3498	Denso	Manufacturer
3499	Denso	Manufacturer

Injector Test

Part Number: 0445110362
Test Step: WARM

Injector	Q_Inj (mm3/H)	Q_Ret (mm3/H)	Inductance (µH)	T_Response (µS)	WARM	LEAK	VL	VL(R)	EM	LL	VE	VE(R)	VE 2
1	300.0	35.0	600.0	1400.0	150.0(0.0-300.0)	40.0(0.0-80.0)(R)	45.0(37.8-53.8)	30.0(5.0-55.0)(R)	14.0(9.6-18.4)	5.0(1.7-8.3)	2.0(0.3-3.7)	5.0(3.0-7.0)(R)	3.0(0.3-5.7)
2	600	150.0	0.0	1000									
3	50	150.0	0.0	1000									
4	0.0	0.0	0.0	0									
5	15	24.0	0.0	1000									
6	0	0.0	0	0									

2.Can print test report.

The logo of the test report can be changed or put yours

TEST REPORT


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Servicer:
Tel:
Address:

Tester:
Fax:

Repairer:
Tel:
Address:

Customer:
Fax:

Date: 07.04.2023 17:46

Part Number: 0445010012 Maker: Bosch
Serial Number: SN

Step	P_rail (Mpa)	I_ZME (A)	Q_pump (L/H)	Q_Real (L/H)	Assess
Max Power	100.0	0.40	46.7±4.6	2.8	×
No Flow	100.0	1.60	1.0±1.0	0.8	✓
Max Power	135.0	0.40	44.8±4.1	2.7	×

3.Piezo injector test

4.Common rail pump test

Description

Type-PN:

Maker:

- Bosch
- Denso
- Siemens
- Delphi
- Caterpillar
- BYC
- Cummins
- LongBeng
- Yu Chai
- XinFeng
- ChongQing
- L'ORANGE

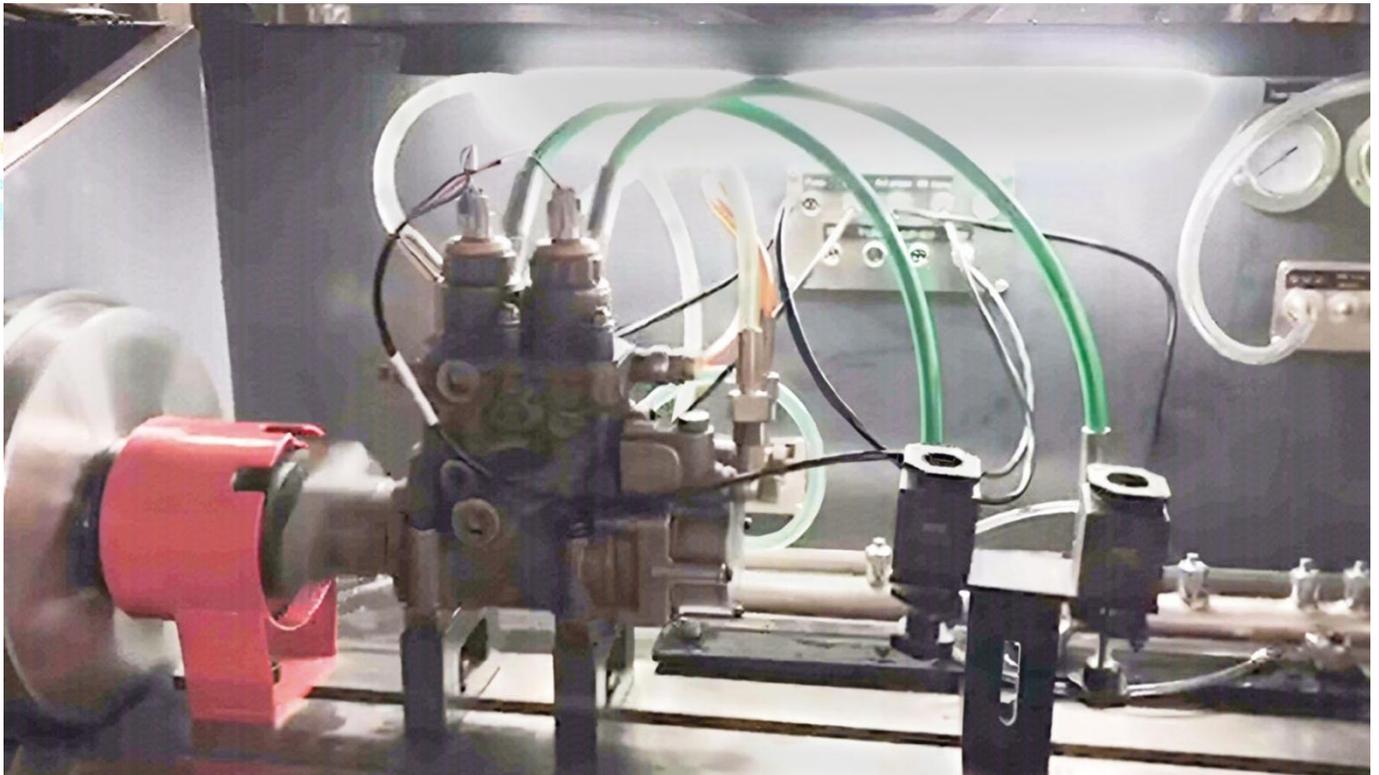
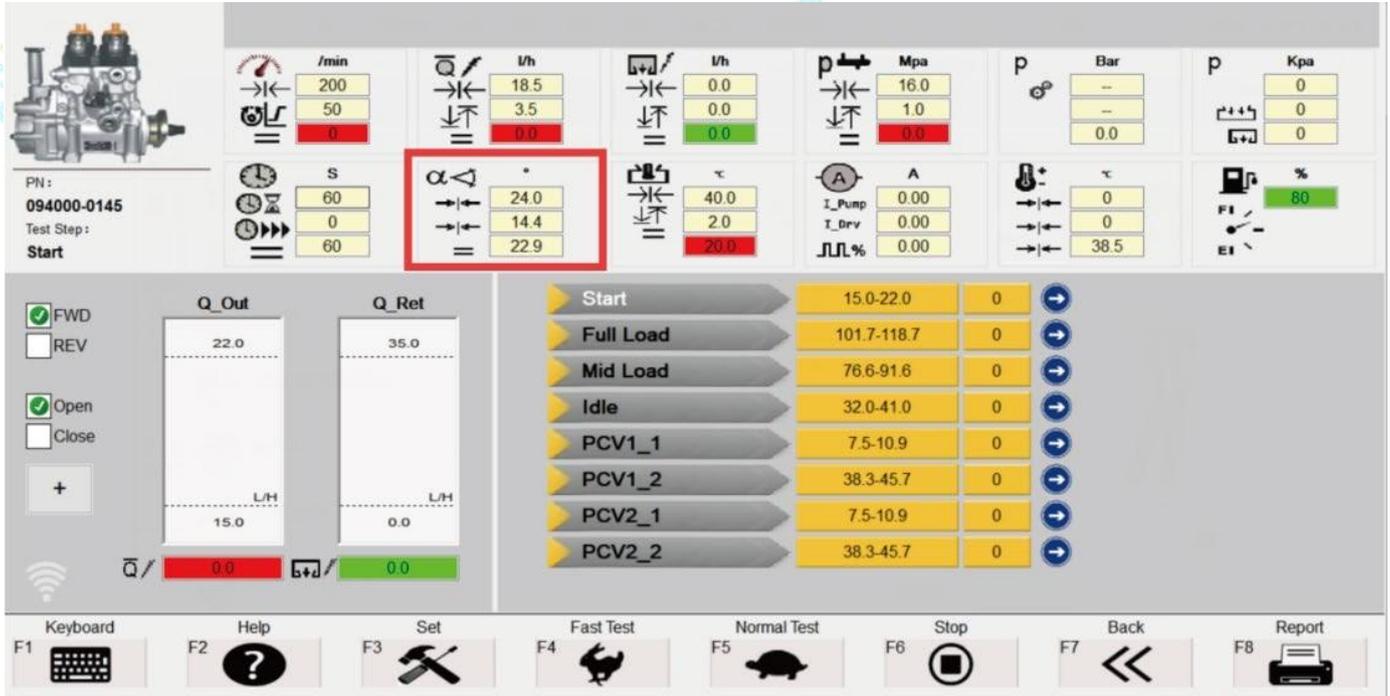
Q

Data Common Rail Pump There are 1039 part numbers

	Type-PN	Maker	Type
10...	294050-0044	Denso	CR
10...	294050-0060	Denso	CR
10...	294050-0061	Denso	CR
10...	294050-0065	Denso	CR
10...	294050-0066	Denso	CR
10...	294050-0071	Denso	CR
10...	294050-0081	Denso	CR
10...	294050-0105	Denso	CR
10...	294050-0138	Denso	CR
10...	294050-0661	Denso	CR
1011	294050-0860	Denso	CR
10...	33100-4A700	Delphi	CR
10...	3Q-9B395-AD	Siemens	CR
10...	4306945	Cummins	Cumminus Pump
10...	4327066	Cummins	Cumminus Pump
10...	4921431	Cummins	Cumminus Pump
10...	4G33TC-180100	XinFeng	CRP

F1 [Power] F2 [Keyboard] F3 [Add] F4 [Modify] F5 [Delete] F6 [Find] F7 [Back] F8 [Continue]

5. Denso HP0 pump test



7. Calibration code

(4185 codes (Bosch 1174, Denso 2375, Siemens 160, Delphi 438, Cummins 28))

Injector Coding

Type-PN
Input PN

Maker

- Bosch
- Denso
- Siemens
- Delphi
- Caterpillar
- BYC
- Cummins
- LongBeng
- Yu Chai
- XinFeng
- ChongQing
- L'ORANGE

Calibration injector

Data

There are 4185 part numbers

	Type-PN	Maker	Version
1	0060-0180-0280M	Denso	Manufacturer
2	00SMS-TEST	Siemens	User
3	01U00412	Denso	Manufacturer
4	023 09S17053..	Denso	Manufacturer
5	023 09S17053..	Denso	Manufacturer
6	02C2S40004	Siemens	User
7	03L130277B	Siemens	Manufacturer
8	03L130277S	Siemens	Manufacturer
9	03P130277	Delphi	User
10	03U01595-0221.	Denso	Manufacturer
11	0445110002	Bosch	Manufacturer
12	0445110003	Bosch	Manufacturer
13	0445110004	Bosch	Manufacturer
14	0445110005	Bosch	Manufacturer
15	0445110006	Bosch	Manufacturer
16	0445110007	Bosch	Manufacturer
17	0445110008	Bosch	Manufacturer

F1

F2

F3

F4

F5

F6

F7

F8

- Bosch IQA / IMA / IS
- Denso 16/22/24/26/28/30/32QR
- Delphi I2C / I3C
- Siemens IIC
- Cummins XPI

Bosch 6 bit

Bosch 7 bit/ISA

Bosch 8 bit

Bosch 9 bit

Bosch 10 bit

Bosch IQA/IMA/ISA

Denso 16QR

Denso 22QR

Denso 24QR

Denso 26QR

Denso 30QR

Denso 16/22/24/26/28//30/32QR

I2C

C21
16

C31
20

Delphi C2I/C3I

8SH7BWA

Bosch IMA-7

Denso 30QR

Delphi C3I

OPTIONAL FUNCTION

1. Test EUI EUP

1.1 Test EUI EUP with TU-A cam boX



1.2 Test EUI EUP with TU-B cam boX



1.3 Test EUI EUP with TU-C cam boX



1.4 Test EUI EUP with TU-D cam boX



1.5 Test EUI EUP with TU-E cam boX



2.1. Test HEUI CAT C7 C9 3126B&3116

Part Number: 10R7224
Test Step: LEAK

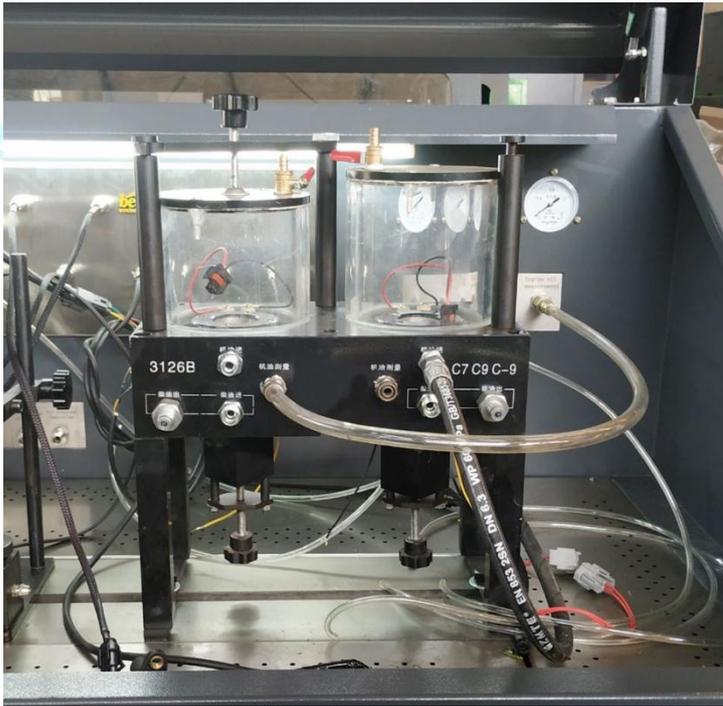
/min	mm3/H	mm3/H	MPa	BIP μ S	pH
800	0.0	15.0	25.0	3000	0
50	0.0	15.0	1.0	1900	0
800	0.0	0.0	25.0	-	0

S	V	μs	$^{\circ}$C	$^{\circ}$C	%
60	24.0	0	40.0	45.0	80
0	Boost	0	2.0	5.0	80
60	R(Ω)	0.00	20.0	38.5	

	Q_Inj	Q_Ret	Inductance	Γ _Response
FWD	35.0	30.0	8000.0	4900.0
REV				
Open				
Close				
	mm3/H	mm3/H	μ H	μ S
	0.0	0.0	500.0	1100.0

	Inject	Return
LEAK	0.0-0.0	0 0.0-30.0(R)
VL	108.1-131.9	0 410.0-610.0(R)
LL	38.1-51.9	0 295.0-395.0(R)
VE	2.3-8.7	0 350.0-430.0(R)
START	14.0-31.0	0 225.0-325.0(R)

Graphics F1 **Help** F2 **Set** F3 **Fast Test** F4 **Normal Test** F5 **Stop** F6 **Back** F7 **Report** F8



C7 C9 3126B&3116 Accessories

2.2 Test HEUI(6 types of adapters)



2.1 CAT 3126A

2.2 CAT3412E

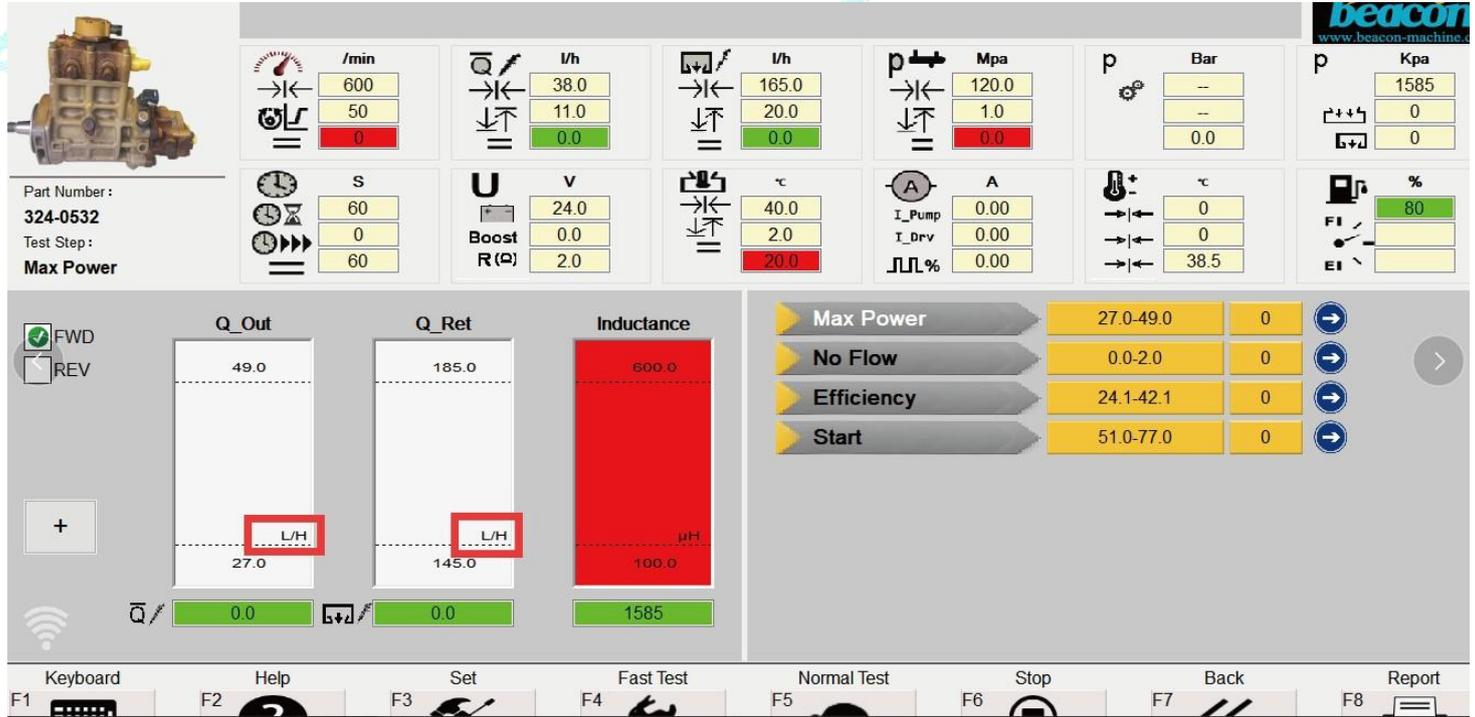
2.3 NAVISTAR

2.4 ISUZU

2.5 Ford G2.8& Ford 6.0

2.6 Ford G2.9

3. Test CAT 320D pump



Need with this Accessories

4. Test CAT C7 C9 pump

Description

Type-PN

Maker

- Bosch
- Denso
- Siemens
- Delphi
- Caterpillar
- BYC
- Cummins
- LongBeng
- Yu Chai
- XinFeng
- ChongQing
- L'ORANGE

Data

There are 10 part numbers

	Type-PN	Maker	Type
1	186-3410	Caterpillar	HEU PUMP
2	204-4945	Caterpillar	HEU PUMP
3	254-4355	Caterpillar	HEU PUMP
4	254-4357	Caterpillar	HEU PUMP
5	319-0675	Caterpillar	HEU PUMP
6	319-0677	Caterpillar	HEU PUMP
7	319-0812	Caterpillar	HEU PUMP
8	476-8766	Caterpillar	HEU PUMP
9	HEU-Pump-L	Caterpillar	HEU PUMP
10	HEU-Pump-R	Caterpillar	HEU PUMP

F1 Exit F2 Keyboard F3 Add F4 Modify F5 Delete F6 Find F7 Back F8 Continue



Need with this Accessories

5. Test 2 injectors at the same time

(2 injectors testing system + additionally add 1 flow sensor + 1 high-pressure oil pipe + 2 solenoid valves + 2 filter elements + 1 filter + 1 double injector clamp)

Part Number
28397569
Test Step
WARM

Injector Test

<input checked="" type="checkbox"/> 1 SN	/min 600	mm3/H 150.0	mm3/H 0.0	MPa 100.0	μS 800	μH --
<input type="checkbox"/> 2	50	150.0	0.0	1.0	600	--
<input type="checkbox"/> 3	0	0.0	0.0	100.0	0	0
<input type="checkbox"/> 4	30	24.0	1000	40.0	0.00	80
<input type="checkbox"/> 5	0	0.0	1000	2.0	0.00	--
<input type="checkbox"/> 6	30	Boost R(Ω) --	μS min 0	20.0	I_Pump 0.00 I_Drv 0.00 JUL % 0.00	--

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<input type="checkbox"/> FWD	Q_Inj	Q_Ret	Inductance	WARM	INJ 1	INJ 2
<input checked="" type="checkbox"/> REV	300.0	35.0	500.0	150.0(0.0-300.0)	0	0
<input checked="" type="checkbox"/> Open				35.0(0.0-70.0)(R)	0	0
<input type="checkbox"/> Close	mm3/H	mm3/H	μH	60.0(52.5-67.5)	0	0
<input type="checkbox"/> +	0.0	0.0	30.0	45.0(23.0-67.0)(R)	0	0
	0.0	0.0	0	20.0(15.8-24.2)	0	0
				5.2(2.1-8.3)	0	0
				1.6(0.3-2.9)	0	0

F1

F2

F3

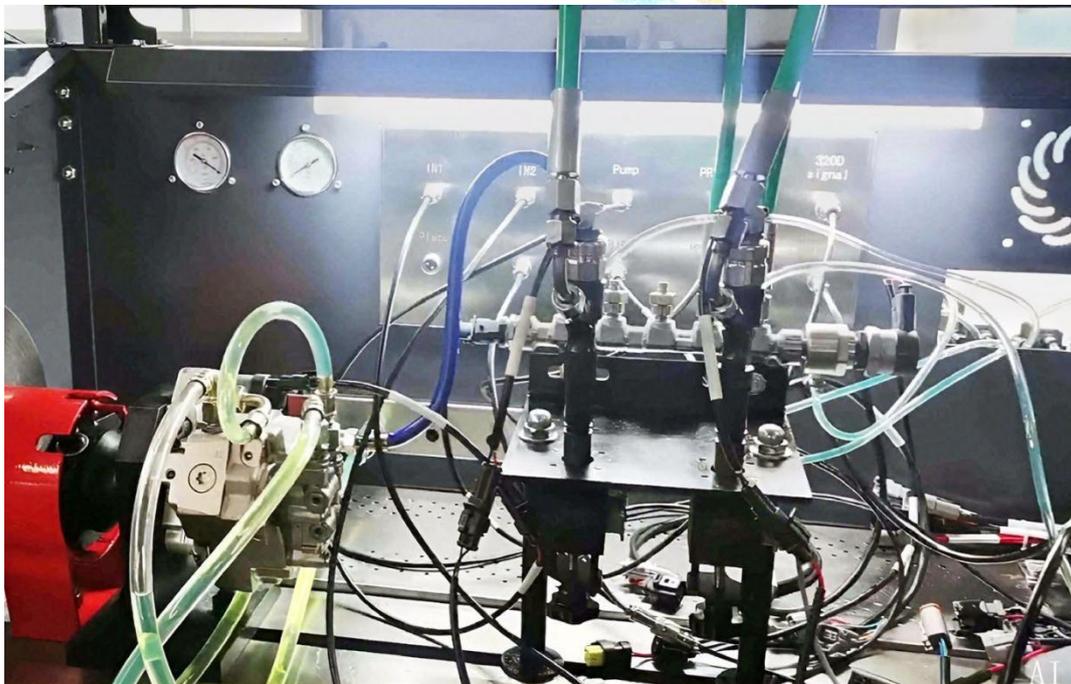
F4

F5

F6

F7

F8



6. Test 4 injectors at the same time

(4 injector test system + 3 additional flow sensors + 3 high-pressure oil pipes + 6 solenoid valves + 6 filter elements + 3 filters + 1 four-injector fixture)

Part Number
0445110010
Test Step
WARM

Injector Test

<input checked="" type="checkbox"/> 1 SN <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6	/min 600 50 0	mm3/H 150.0 150.0 0.0	mm3/H 0.0 0.0 0.0	MPa 100.0 1.0 100.0	μS 800 600 0	μH -- -- 0
S 30 0 30	V 24.0 Boost 0.0 R(Ω) --	μS 1000 1000 0	°C 40.0 2.0 20.0	A I_Pump 0.00 I_Drv 0.00 JLL% 0.00	% -- -- 0	% 80 FI -- EI

FWD
 REV

Open
 Close

+
mm3/H
0.0

FWD
 REV

Open
 Close

+
mm3/H
0.0

Inductance
600.0
μH
100.0

	INJ 1	INJ 2	INJ 3	INJ 4
WARM	150.0(0.0-300.0)	0	0	0
LEAK	35.0(0.0-70.0)(R)	0	0	0
VL	50.9(46.9-54.9)	0	0	0
VL(R)	30.0(5.0-55.0)(R)	0	0	0
EM	18.8(16.3-21.3)	0	0	0
LL	4.7(3.1-6.3)	0	0	0
VE	1.5(0.3-2.7)	0	0	0
VE(R)	5.0(3.0-7.0)(R)	0	0	0
VE 2	3.0(0.3-5.7)	0	0	0

F1 Graphics

F2 Help

F3 Set

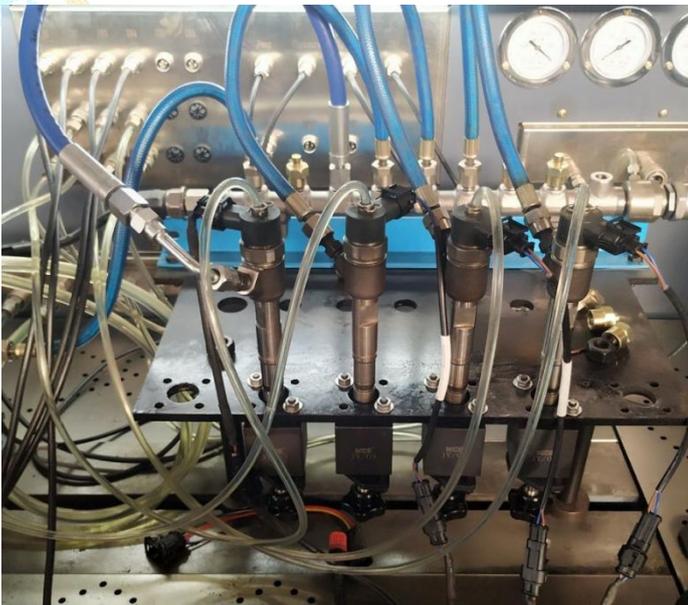
F4 Fast Test

F5 Normal Test

F6 Stop

F7 Back

F8 Report



Need with this Accessories

7. Test 6 injectors at the same time

(6 injector test system + 5 additional flow sensors + 5 high-pressure oil pipes + 10 solenoid valves + 10 filter elements + 5 filters + 1 six-injector fixture)

Part Number
095000-2586
Test Step
WARM

Injector Test

<input checked="" type="checkbox"/> 1 SN <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6	/min 600 50 0	mm3/H 150.0 150.0 0.0	mm3/H 0.0 0.0 0.0	MPa 100.0 1.0 100.0	μS 800 600 0	μH -- -- 0
	S 30 0 30	V 24.0 Boost 0.0 R(Ω) --	μS 1000 1000 0	°C 40.0 2.0 20.0	A I_Pump 0.00 I_Drv 0.00 JLL% 0.00	% 80

Q_Inj: 300.0 mm3/H

Q_Ret: 35.0 mm3/H

Q: 0.0 mm3/H

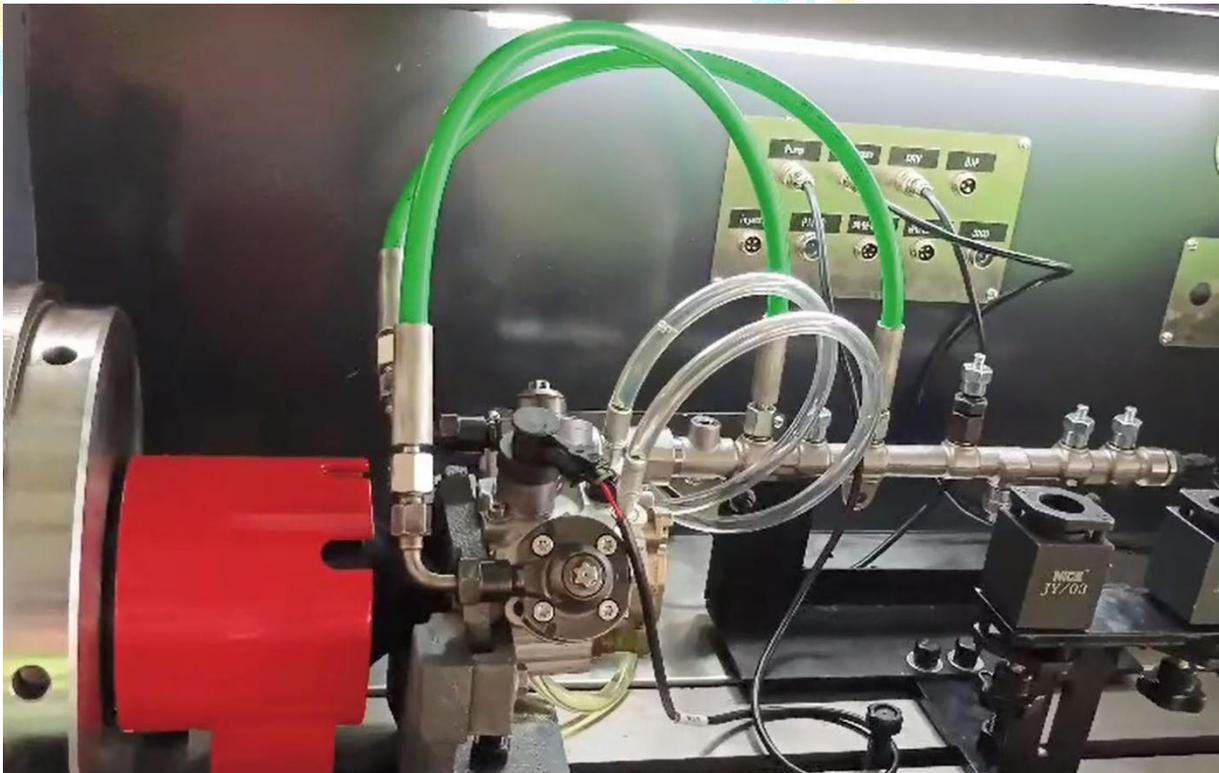
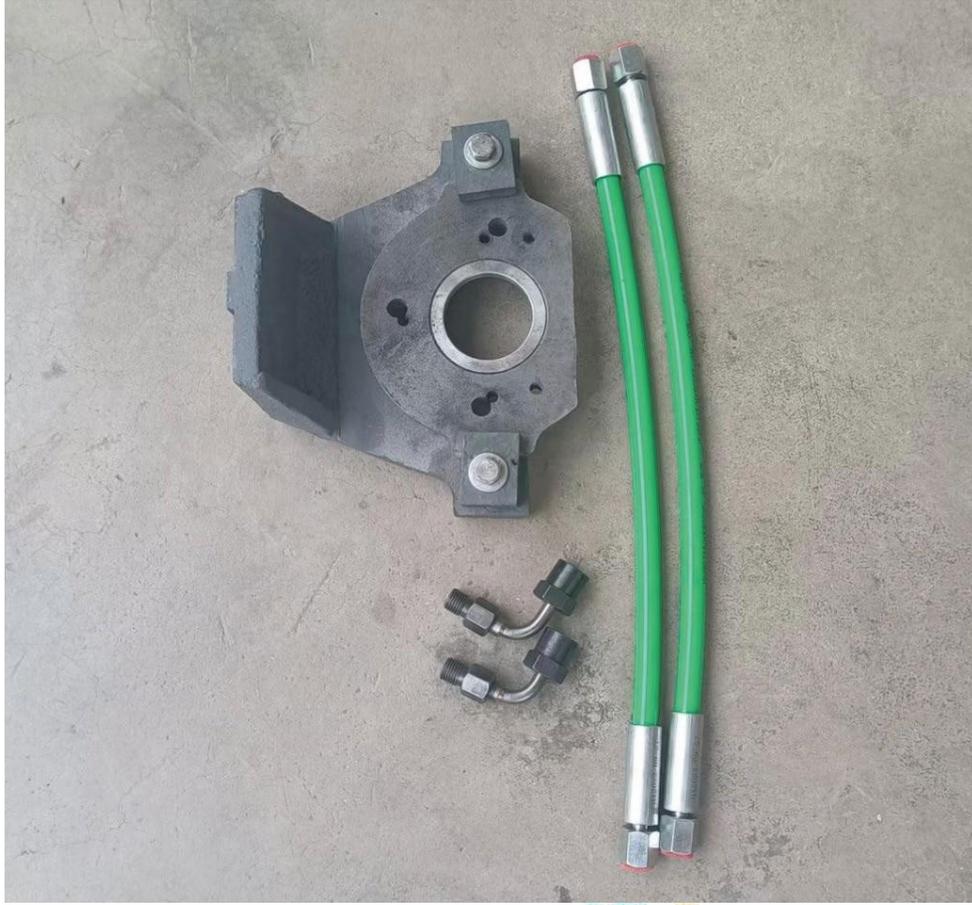
	INJ 1	INJ 2	INJ 3	INJ 4	INJ 5	INJ 6
WARM	150.0(0.0-300.0)	0	0	0	0	0
LEAK	20.0(5.0-35.0)(R)	0	0	0	0	0
Back	35.0(10.0-60.0)(R)	0	0	0	0	0
Max	208.7(196.1-221.3)	0	0	0	0	0
TL	58.0(49.5-66.5)	0	0	0	0	0
LL	14.2(9.4-19.0)	0	0	0	0	0
VE	4.2(2.4-6.0)	0	0	0	0	0

F1 Graphics F2 Help F3 Set F4 Fast Test F5 Normal Test F6 Stop F7 Back F8 Report



Need with this Accessories

8. Test CP4 pump



9. Test Cummins PT injector (This function must be equipped with TU-C/D/E cam box)

Part Number: 3077760
Test Step: Start

/min	mm3	l/h	°	BIP μ S	pH
400	161.0	150.0	1185	0	0
50	15.0	50.0	4562	0	0
0	0.0	0.0	0	0.0	0
S	V	%	°C	°C	°C
30	24.0	80	40.0	40	40
0	Boost		2.0	2	1
30	R(°)		20.0	0.0	0.0

Q_Inj	Q_Ret	Inductance	T_Response
176.0	200.0	15000.0	10000.0
mm3/H	L/H	μ H	μ S
146.0	100.0	300.0	200.0
0.0	0.0	0	0

Start	146.0-176.0	0
Mid Load	190.3-215.7	0
Full Load	228.5-257.5	0
Idle	32.5-49.5	0

FWD
 REV

F1 Graphics F2 Help F3 Set F4 Fast Test F5 Normal Test F6 Stop F7 Back F8 Report



Need with this Accessories

10. Test Cummins PT Pump

Part Number: FC9039-3655648
Test Step: MANUAL

	/min	200
		50
		0

	l/h	750.0
		750.0
		0.0

	l/h	0.0
		0.0
		0.0

	S	60
		0
		60

	V	24.0
Boost		0.0
R (Ω)		0.0

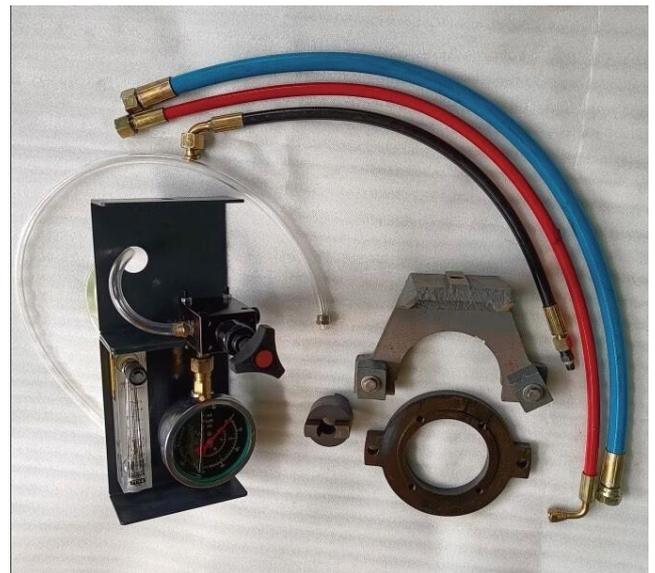
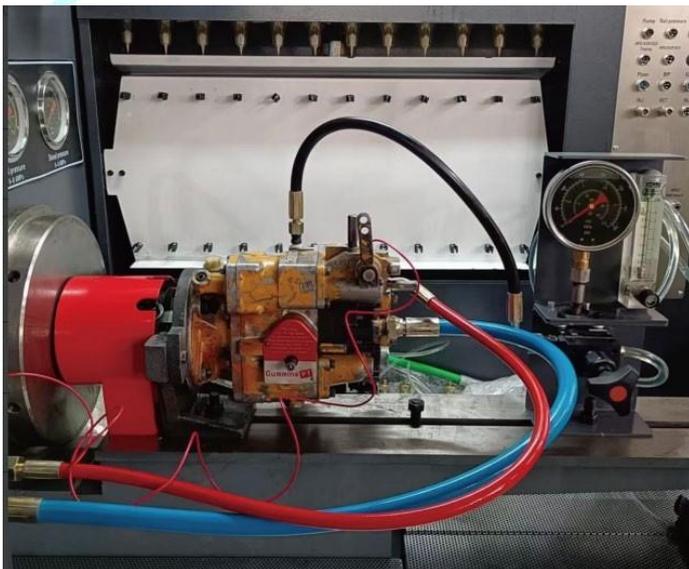
	°C	40.0
		2.0
		20.0

Q_Out 1500.0

MANUAL 0.0-1500.0 0

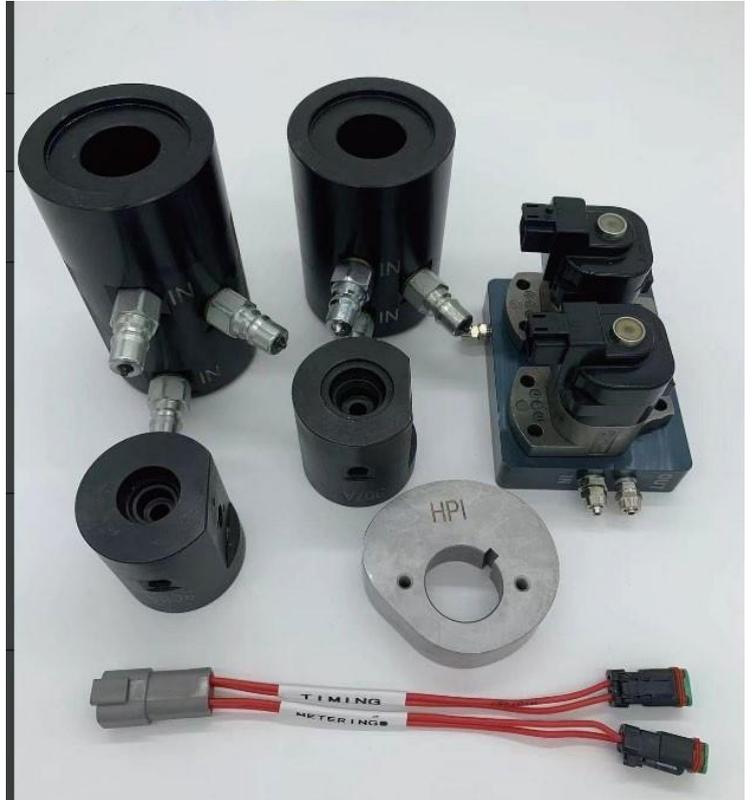
Q 0.0

Graphics F1 **Help** F2 **Set** F3 **Fast Test** F4 **Normal Test** F5 F6



Need with this Accessories

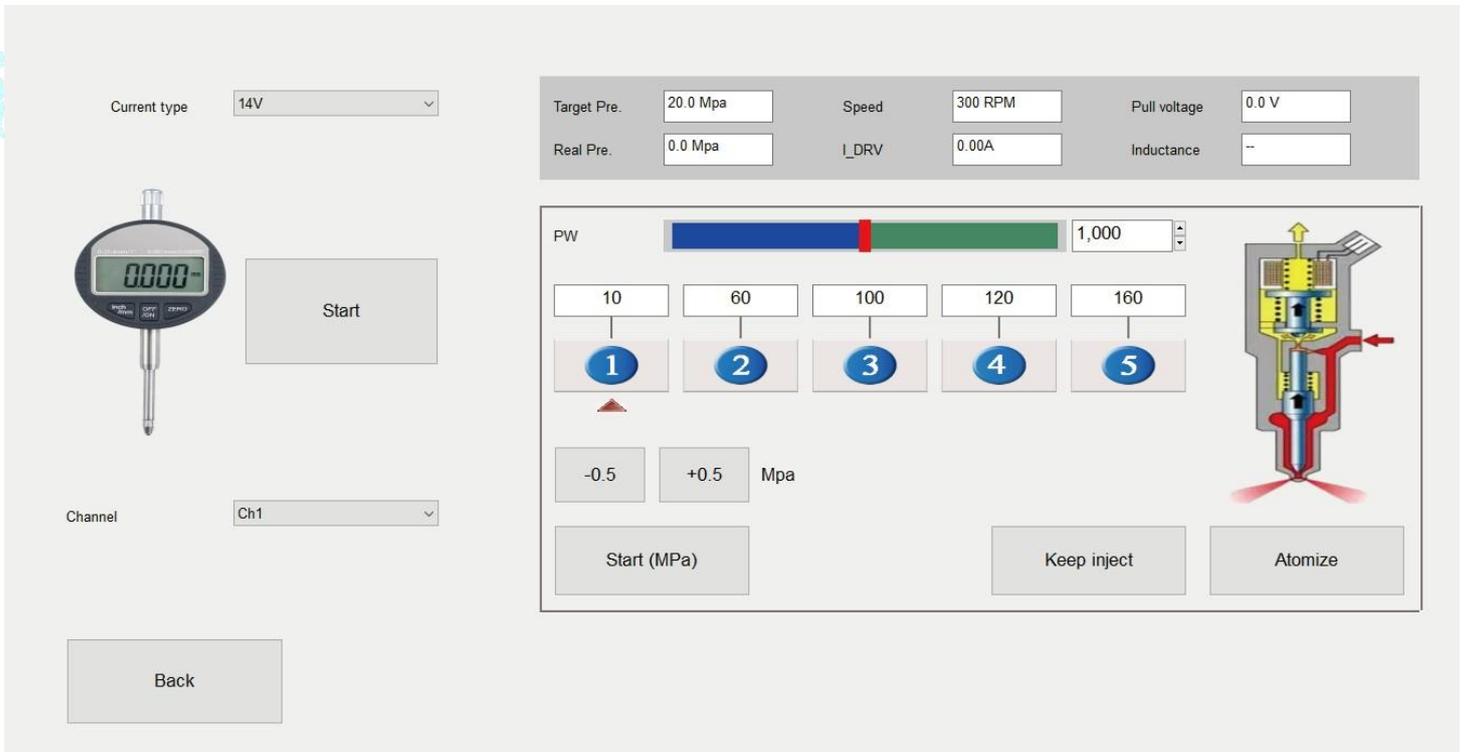
11. Test Cummins HPI Q60 X15 injector (This function must be equipped with TU-C/D/E cam box)



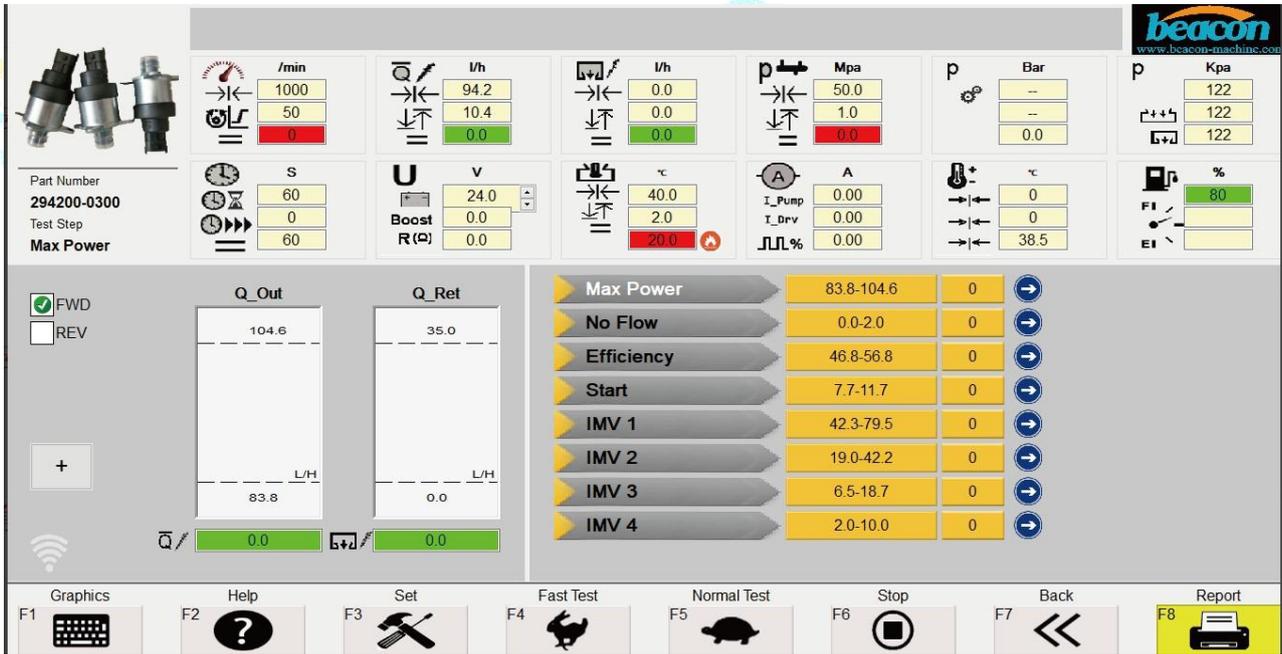
Need with this Accessories



12.AHE injector dynamic stroke (with Bosch 110, 120 stroke measuring tool + dial indicator)



13. Test ZME

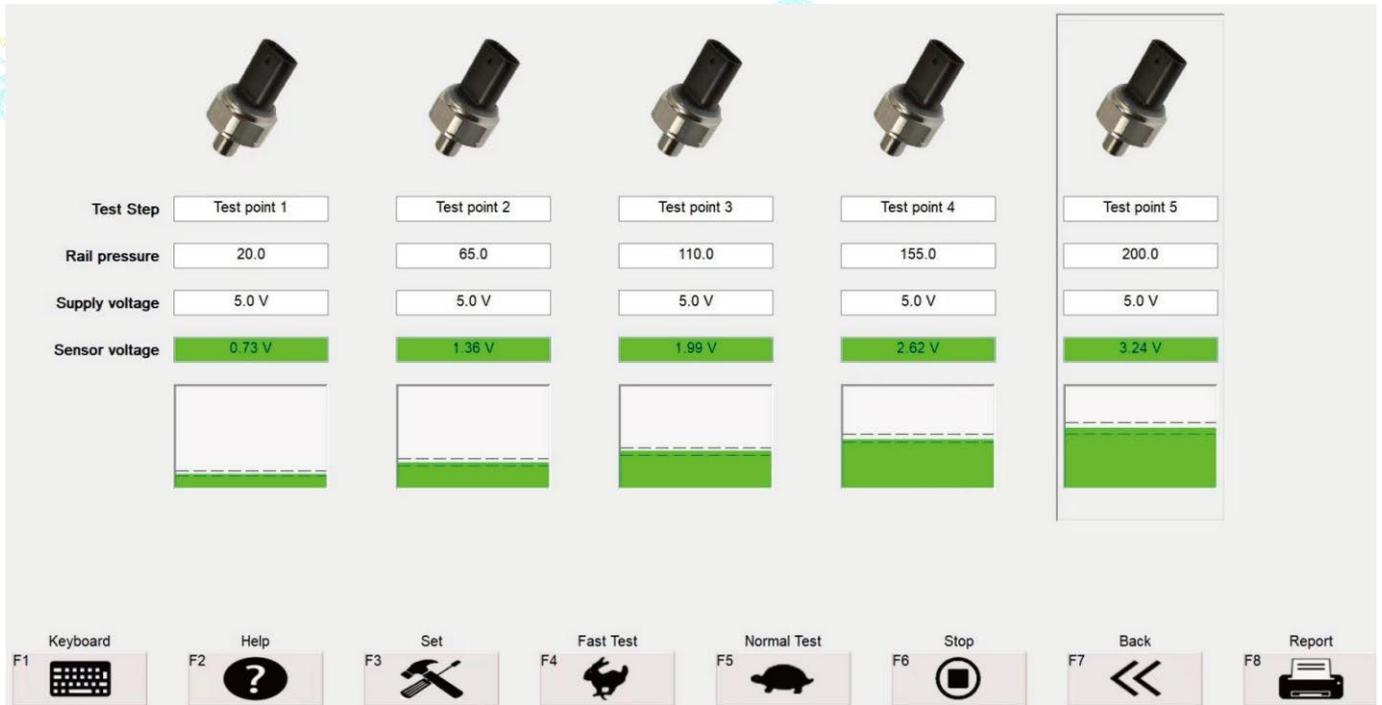


14. Delphi E3 double pulse control system

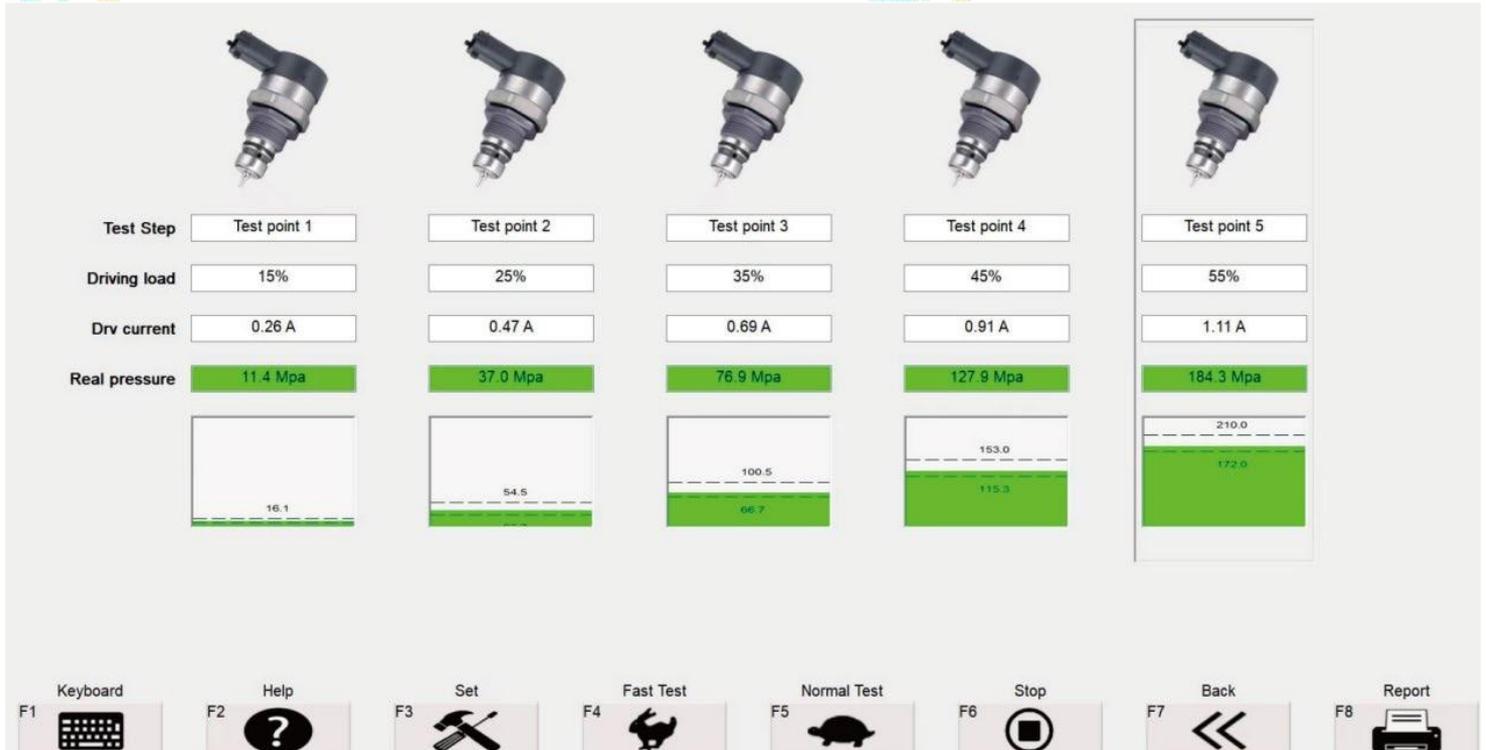
15. Test MTU L'ORANGE Injector



16. Test Rail pressure sensor



17. Test DRV/HPV



18. Test Solenoid valve



19. Test Bosch 4 pins injector

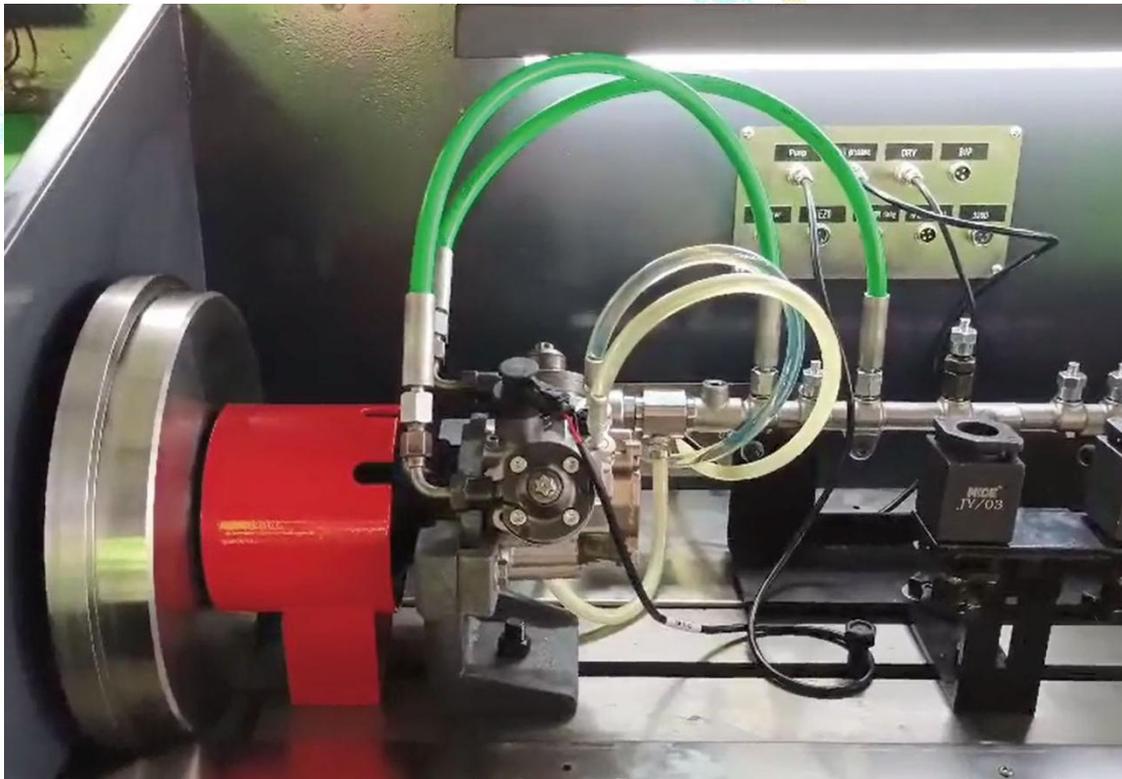


20. Test XPI injector



Add this accessories

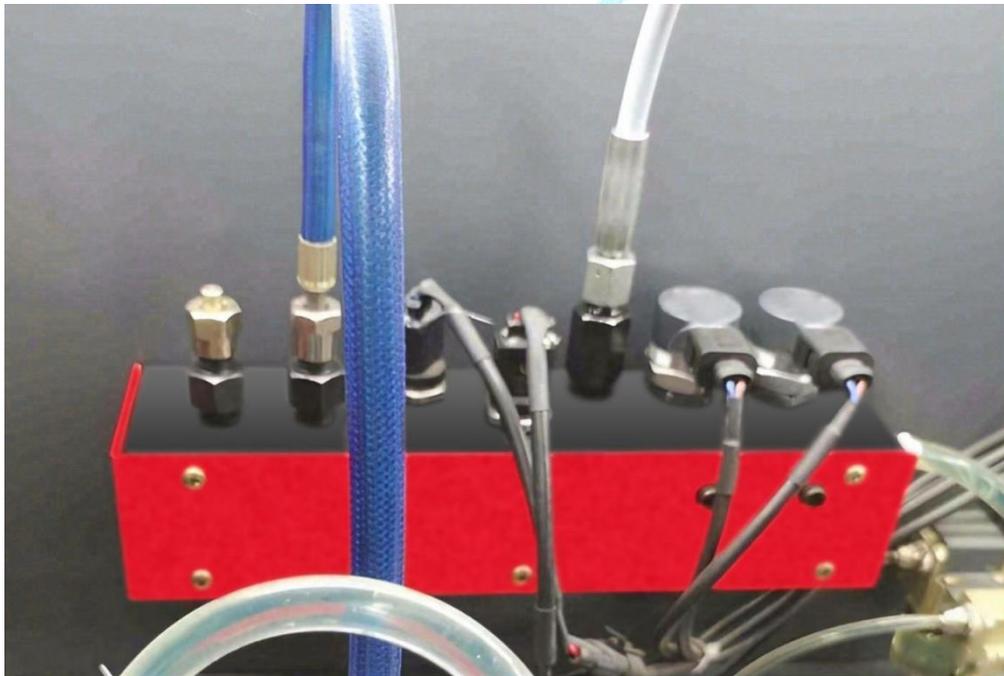
21. Replace with Bosch CP4 pump to reach 2800 bar



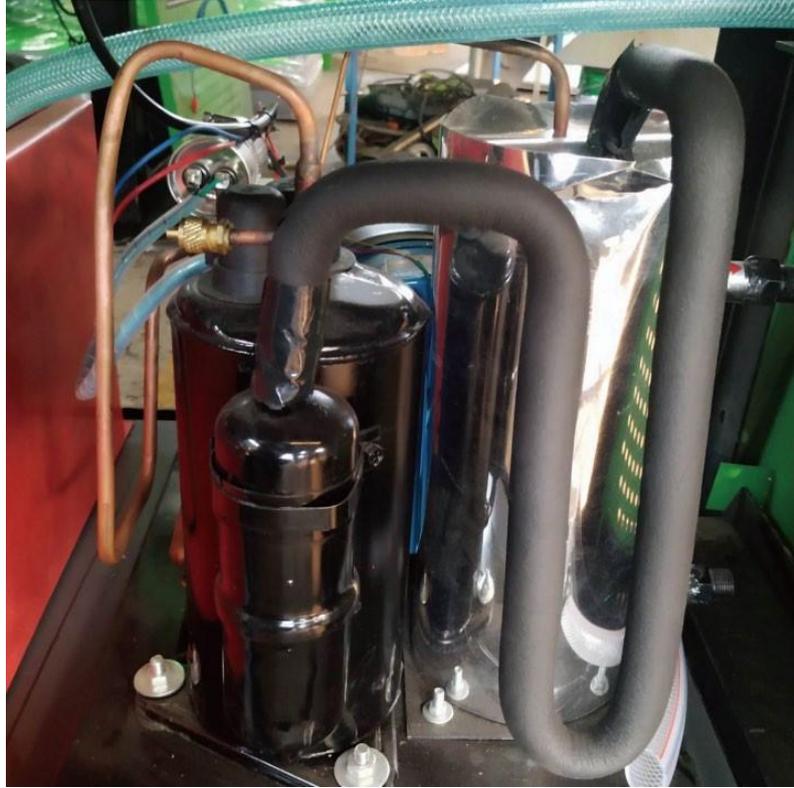
22. Test DENSO HP5 Pump accessories



23. Actualice 2 DRV+ 2 sensors



24. Air conditioning forced cooling



BC-CR708 PACKING FOR DELIVERY

PLYWOOD CASE PACKAGING



Finished product



Wrapping machine



Plywood case packaging



Shipping

DELIVERY TIME WARRANTY PERIOD

1. Machine delivery time

3-4 weeks

2. Warranty period

2.1 One-year warranty + lifetime technical support.

2.2 If non-human damage occurs within one year, accessories will be replaced free of charge.

2.3 If there is any man-made damage, the accessories will be replaced at the ex-factory price.