

**18**  
new repair parts

**1m+**  
trucks in operation

**6m+**  
Injector production

## NEW Euro6 F2E Common Rail Injector repair program

Launch of repair for **Euro6 F2E CR Injectors** fitted to  
**Volvo, Renault and Hyundai Truck applications**

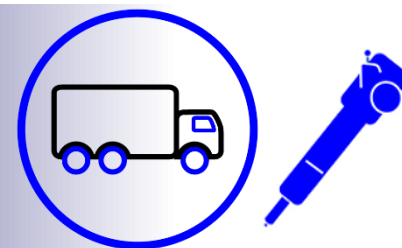
Delphi Technologies' F2E system is fitted to Renault and Volvo for their Euro 6 Commercial Vehicle applications sold globally in North America, Asia Pacific, Europe, Middle East/Africa and Brazil.

The F2E system is utilised by Volvo across their FH16, FH, FMX and FM models, and Renault in their C, K and T models from 2014 onwards, using D11K, DTi11, D13K, DTi13 and D16K inline 6 cylinder engines producing from 330-750 hp.

The system is also used by Hyundai across their H and L 6cyl engines.



## Euro6 F2E CR Injector Repair Applications and repair parts



The **F2E system** from Delphi Technologies is a combination of a Heavy Duty Common Rail, 3 x F2 Pumping Injectors and 3 x F2 Non-Pumping Injectors per Fuel Injection System (6 x F2 pumping injectors in the 16 litre system).

### Injector Part Numbers subject to repair

BEBJ1F00001	BEBJ1F02003	BEBJ1F06001	BEBJ1F07201	BEBJ1F08202	BEBJ1F11001	BEBJ1F13001
BEBJ1F01001	BEBJ1F03001	BEBJ1F06101	BEBJ1F08001	BEBJ1F09001	BEBJ1F11201	BEBJ1F14001
BEBJ1F02001	BEBJ1F05001	BEBJ1F07001	BEBJ1F08101	BEBJ1F10001	BEBJ1F12001	
BEBJ1F02002	BEBJ1F05002	BEBJ1F07101	BEBJ1F08201	BEBJ1F10201	BEBJ1F12201	

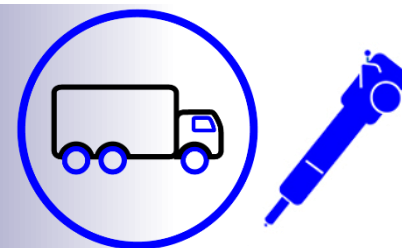
The first pack of test plans will be available with the IRIS package update in June, the remaining ones will be released with regular updates. The dedicated repair components for each injector will be fully released along with the specific test plan release.

Repair parts commonly used for the repair of F2E injectors are listed below, please see Direct Evolution (DEVO) for repair parts detail per injector.

### F2E Non-pumping Injector Repair Components

LSN	Description	Quantity	Comments
106	Capnut	1	NEW - See Devo for PN per Injector
118	NCV - Assembly	1	
122	Spring - NCV Return	1	
124	Stator Assembly	1	
128	Spring - Stator Retention	1	
140	Screw	2	
150	Nozzle Capsule Assembly	1	
102	Protection Cover	1	See Devo for PN per Injector
104	Washer	1	
120	Shim	1	
132	Seal	1	
136	Seal	1	
138	Header - Assembly	1	
142	Protection Cap	1	

## Euro6 F2E CR Injector Repair Applications and repair parts



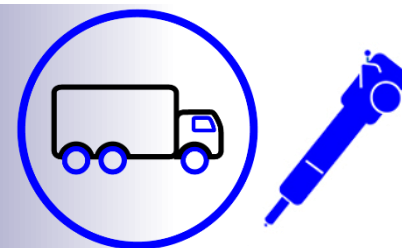
The repair parts program includes the following new key components for the repair of above injectors - refer to DEVO for part number level detail illustrating which components are to be used for specific injector repairs.

New F2E repair parts have been allocated a new franchise access code of 'DEV'. In order for only the Delphi Authorized Repair Network to have access to these parts, a new test bench **Cri-Pro** and **Delphi Repair Tooling** are required before access is granted. This ensures only workshops with the correct level of capability can access the relevant repair parts.

### Repair Components- New Release

LSN	Repair Parts	Description	Franchise Access Code
150	28423782	Nozzle capsule assembly	DEV
150	28423876	Nozzle capsule assembly	DEV
150	28423877	Nozzle capsule assembly	DEV
150	28429290	Nozzle capsule assembly	DEV
150	28440972	Nozzle capsule assembly	DEV
150	28453940	Nozzle capsule assembly	DEV
150	28486554	Nozzle capsule assembly	DEV
150	28486557	Nozzle capsule assembly	DEV
150	28499968	Nozzle capsule assembly	DEV
118	7206-1013	Nozzle Control Valve	DEV
140	7200-0292	Screw	DEV
128	7200-0291	Spring	DEV
122	7206-0905	Spring	DEV
122	7206-0994	Spring	DEV
128	7209-0254	Spring - Stator Retention	DEV
124	7209-0909	Stator Assembly	DEV
106	7207-0750	Capnut	DEV
106	7207-0758	Capnut	DEV

## Euro6 F2E CR Injector Repair Tooling & Test



### Tooling

YDT764 and **YDT847 (NEW)** are required for the repair of related F2E injectors. The use of this tooling is mandatory for the Delphi Authorized Repair Network. The development and use of this range of dedicated tools YDT847 (01-2021 -->) preserve the integrity of the mechanical and electrical components of DFI5 injectors. This kit comes in addition to the previous kit YDT764 (Smart injector Euro5).

Repair tooling	Part #
Tool kit – SMART repair	YDT764 (superseding to YDT764A)
F2 injectors repair tool kit	YDT847
Shim holder	NTA4965
Alignment rig shim (X2)	NTA4970
Nozzle adaptor	NTA4955
Capnut clamp	NTA4960
Injector clamp	NTA4950

### Hartridge Test

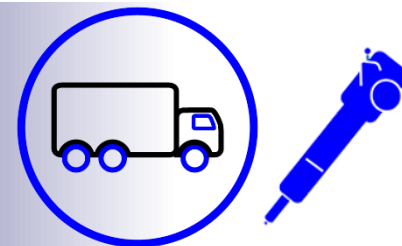
Authorized tests carried out on the **new Hartridge CRi-Pro** test bench with the **IRIS software** solution will validate the injector operation and performance. **IRIS 2022 CR Injector License (DTQX102C)** has been communicated in March. The software can be accessed from <https://iris.my-delphi.com>. Details of the Hartridge tooling are shown below:

Cri-Pro								
Tooling Description	Clamp	Fuel Sleeve Kit	7mm Nosepiece Kit	Back Leak Adaptor	Response Time Pressure Sensor	Base Cable	Injector Cable	HP Pipe
Tooling PN	NTA6011	NTA6018 /6019		NTA5318	797-4973	AE79/1	AE79/16	AHP5144
Part of Tooling Kit	HK1246	HK1253	HK1243		HJ098			

### Associated Documentation

Common Rail Injector - Repair Procedure - Workshop Manual	DTNX106A
Repair - CR HD - F2	DT5410
Common Rail Injector Test - Application Coverage & Parts - Hartridge	HMN263

## Euro6 F2E CR Injector Repair Application Detail



### Application information

Make	Range	Type	Model	Engine
Volvo	FM	Truck	FM 330	D11K
Volvo	FM	Truck	FM 370	D11K
Volvo	FM	Truck	FM 410	D11K
Volvo	FM	Truck	FM 450	D11K
Volvo	FM	Truck	FM 420	D13K
Volvo	FM	Truck	FM 460	D13K
Volvo	FM	Truck	FM 500	D13K
Volvo	FMX	Truck	FMX 330	D11K
Volvo	FMX	Truck	FMX 370	D11K
Volvo	FMX	Truck	FMX 410	D11K
Volvo	FMX	Truck	FMX 450	D11K
Volvo	FMX	Truck	FMX 420	D13K
Volvo	FMX	Truck	FMX 460	D13K
Volvo	FMX	Truck	FMX 500	D13K
Volvo	FMX	Truck	FMX 540	D13K
Volvo	FH	Truck	FH 420	D13K
Volvo	FH	Truck	FH 460	D13K
Volvo	FH	Truck	FH 500	D13K
Volvo	FH	Truck	FH 540	D13K
Volvo	FH	Truck	FH 460	D13K460TC
Volvo	FH	Truck	FH 500	D13K500TC
Renault	T	Truck	T 380	DTI 11
Renault	T	Truck	T 430	DTI 11
Renault	T	Truck	T 460	DTI 11
Renault	T	Truck	T 440	DTI 13
Renault	T	Truck	T 480	DTI 13
Renault	T	Truck	T 520	DTI 13
Renault	K	Truck	K 380	DTI 11
Renault	K	Truck	K 430	DTI 11
Renault	K	Truck	K 460	DTI 11
Renault	K	Truck	K 440	DTI 13
Renault	K	Truck	K 480	DTI 13
Renault	K	Truck	K 520	DTI 13
Renault	C	Truck	C 380	DTI 11
Renault	C	Truck	C 430	DTI 11
Renault	C	Truck	C 460	DTI 11
Renault	C	Truck	C 440	DTI 13
Renault	C	Truck	C 480	DTI 13
Renault	C	Truck	C 520	DTI 13