



Carbon Zapp Cooperation

Authorization Procedure

Diesel Repair Service Partner with DRS network

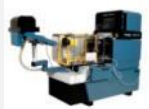



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Important Remark:

- DRSP (Diesel Repair Service Partner) is responsible for the local Diesel Repair Service Network. DRSP authorize DP's, offer the mandatory VDO tools and Repair Parts (Injector Nozzle) as well as approve the License for the certified testbenches
- DP (Diesel Partner) are authorized by Continentals DRSP

1. General Overview

Hartridge & Bosch & Carbon Zapp

	Hartridge	Bosch	Carbon Zapp
Pump Equipment	AVM2-PC CRp-PC 	EPS 708/815 (CR DS) CR Pumps <ul style="list-style-type: none"> 1st release CDTestdata 2017/11 2nd release CDTestdata 2019/A 	
Injector Equipment	CRI-PC EUR 3 EUR 4 	EUR 3 tbd EUR 4 tbd EUR 5 tbd	MTBR, CRU.2R, CRU.4R EUR 3,4,5 – 09/2019 <ul style="list-style-type: none"> IIC Coding function, Repair Concept EUR 5 nozzles Access Only for DRS Partners 
Training	Continental and/or Diesel Repair Service Partner	Bosch	Continental and/ or DRSP for some countries Carbon Zapp
Testbench Kits/Adapters	Offered by Hartridge	Offered by Bosch	Offered by Carbon Zapp
Tools for Repair	Continental mandatory (see Self Assessment/Requirement List)		
Software Approval Form (SAF)	Continental (annually) Mailbox: DRS_HQ@continental-corporation.com		
Code valid for	One testbench	One DRS-Partner (all testbenches)	One testbench
Code Sended by	Hartridge	Continental	Carbon Zapp (DRS@carbonzapp.com)
Certification by Continental	Training + DRS company Certificate	DRS Certificate	Training + DRS Certificate

2. General Requirements

Self Assessment CR Injector

- › Requirements are defined in the **Self Assessment** documents (find documents in slide 8 in 6 languages and 2 formats WORD/PDF – for the sake of completeness updated Self Assessment for CR Pumps are included as well)

- › **Trainings** offered exclusively by **Continental & DRSP & Carbon Zapp**
 - Q3/2019 & Q1/Q2 2020 Train-the-Trainer for DRSP in Germany (HQ Eschborn)
 - Carbon Zapp (specific countries, infos on request)

Important Remark:

For existing VDO DRS Partners (CR Injector authorization based on Hartridge equipment) it is not necessary to participate in a Training to receive the software license for the testing & coding function on the Carbon Zapp testbenches **MTBr, CRU.4r, CRU.2r**.

Nevertheless the **signed Self Assessment** is required for the sake of documentation and in order to provide the testing & coding function!

- › **General** pre-requirements and **test and diagnostic devices** (Oscilloscope, multimeter, HV insulation tester etc.)

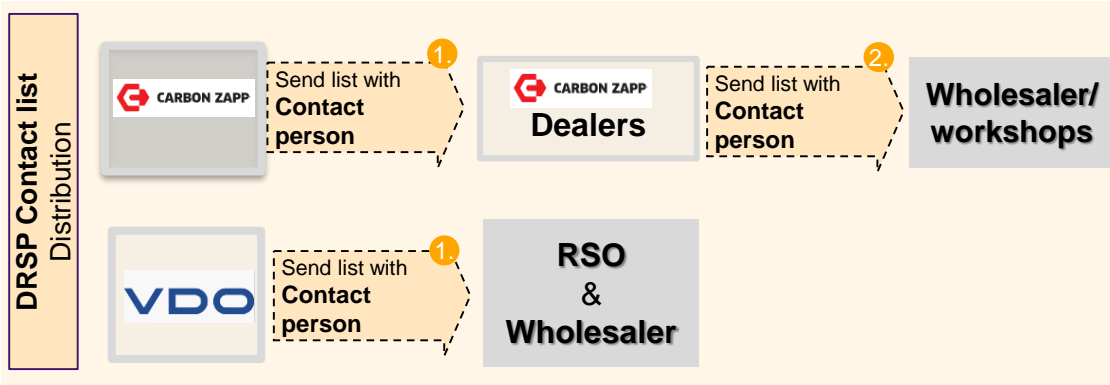
- › **VDO certified Test Equipment for EUR5 VDO CR Injectors**
 - Carbon Zapp MTBr, CRU.4r, CRU.2r
 - Carbon Zapp Kits: PIRV.V5 or PIRV.CB (Piezo Injector Back Pressure Valve)

- › **VDO Injector Repair Tools**
 - Tools classification mandatory/recommended is relevant for **europaean** countries
 - Tools classification mandatory/recommended for Partners outside Europe will be communicated on request

3. DRS Authorization Process

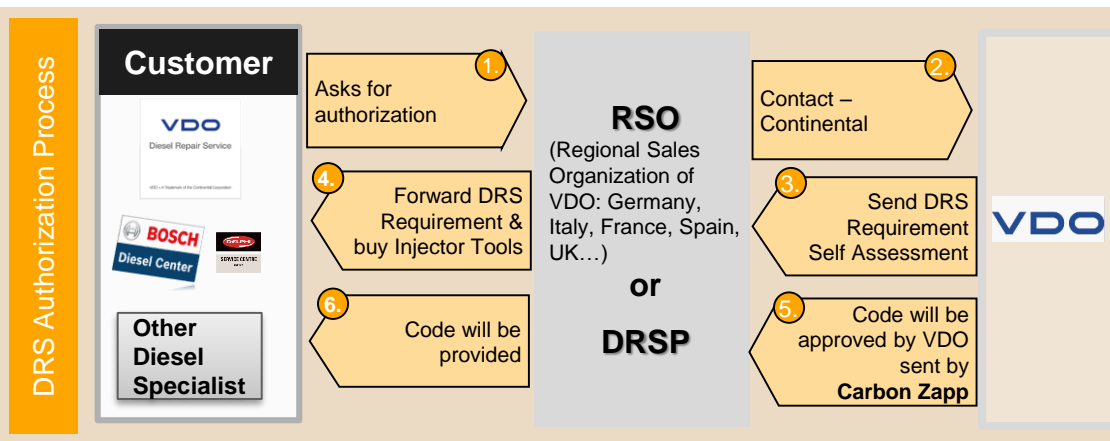
VDO CR Injectors EU5

VDO authorized Diesel Specialists are DRS (Diesel Repair Service) Partners



DRSP Contact list

Alternatively all requests will be handled thru DRS_HQ@continental-corporation.com



DRS Requirements - Self Assessment DRS Software Approval Form (SAF)

4. Inform Diesel Partners about....

› Obligations:

- › Registration in **Extranet will be mandatory:**
 - › <https://extranet.continental-partner.com/Login/Register/EN>
 - › Diesel Roadmap, Catalogues/Handouts/Manuals, Service/Sales Infos,
 - › To be updated/launched soonest in the Extranet:
 - Update: Repair Manual Injector
 - Update: Repair Catalogue
 - Launch: Repair Reporting (through Extranet)
- › Diesel Mailbox for Questions & Software Approval Form (SAF):
DRS_HQ@continental-corporation.com



› Signalization:


- › **New DRS Company Certificate** issued by DRSP, once all requirements are fulfilled
- › **New DRS Training Certificates** issued by Continental or DRSP (or **CARBON ZAPP**)





























5. FAQ

- › Which testbenches from Carbon Zapp will be certified for testing/coding VDO EUR 5 Diesel Injectors?
Carbon Zapp **MTBr, CRU.4r, CRU.2r**. Others are under investigation (Bosch, Hartridge, ..)
- › Will existing Diesel Partners receive the coding function for VDO EUR 5 Injectors automatically without the Self Assessment?
NO. Without confirming in the **Self Assessment (Injector)** that a Carbon Zapp is possessed by the Diesel Partner (DP), software codes will not be sent out to the workshops.
- › Does Continental need the Self Assessments as Hard Copy?
No, completed/signed Self Assessment by DRSP and DP sent digitally by mail to Continental is fully sufficient.
- › Who sends the software codes to activate the VDO test plan on Carbon Zapp testbenches?
Carbon Zapp enables testing software thru WLAN or USB update. Coding function for EUR 5 Injectors are provided by Carbon Zapp through **DRS@carbonzapp.com** after Continental gives the approval. The **Software Approval Form (SAF)** is provided as PDF/WORD template.
- › Who has access to original VDO EUR 5 Injectors nozzles and original VDO test plan & coding function?
DP will have access to EUR 5 injectors nozzles which are
 - equipped with a Carbon Zapp testbench (**MTBr, CRU.4r or CRU.2r**) and
 - equipped with the corresponding VDO Injector Tools
 - as well as provided a signed Self Assessment.
- › Will there be a new documentation for the repair of VDO CR Injectors?
Yes, we will upload an updated Repair Manual for the injectors in the Extranet.
- › Will there be training provided by Carbon Zapp dealers in countries where DRSP's are not available?
Only specific countries where Carbon Zapp dealers have the knowledge, training and facilities to implement this. An info will be provided on request.
- › Who offers the training and how can be assured that workshop employees have been trained?
Continental offers Train the Trainer events to Master DRS (DRSP), they provide trainings locally. A Check in „Training Course“ in the Self Assessment and the signature assures that workshops has been trained!
- › Will existing approved Carbon Zapp testbenches in the market require Calibration to become Authorized?
Benches bought earlier than 07/2019 will require to be verified / calibrated according to the Manufacturer's specifications and procedure.

Training Course

 Employees participated in Diesel Products)

6. Documents

Document	Languages	Injector		Pump	
Self Assessment*	English				
	German				
	Italian				
	French				
	Spanish				
	Turkish				
Software Approval Form (SAF)	English Only				

*** Important Remark:**

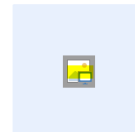
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How to use Documents digitally?

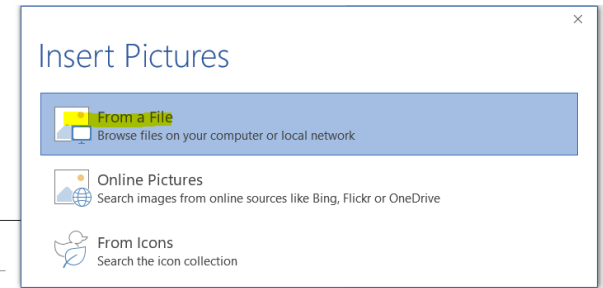
› Word

- › Filling Forms are included for Text and Checks
- › Drop Down is included in the SAF
- › Please insert your signature as a picture:
 - scan and save your original signature as a picture
 - click on the Signature Picture Icon
 - choose „from a file“
 - open your scanned signature

Workshop Self Assessment
Self Assessment done by



Signature DRSP
(Diesel Repair Service Partner)
Company Name: _____
Date: _____




› PDF

- › No Filling Forms or Drop Downs are included
- › Please use the „Fill and Sign Forms“ from Adobe
<https://www.youtube.com/watch?v=52fD1Bzw1Yo>

Ab Test X Gegenprobe durchführen ✓ Häkchen ○ Kreis — Linie ● Punkt ✎ Unterschreiben

<input type="checkbox"/>	2800000100180	Plate Lien	Mandatory
<input type="checkbox"/>	2800000300180	Plate VW	Mandatory
<input type="checkbox"/>	2800000400180	Plate Puma	Mandatory

Workshop Self Assessment
Self Assessment done by



Signature DRSP
(Diesel Repair Service Partner)
Company Name: ABC Limited
Date: 25.09.2019

Signature DP
(Diesel Partner)
Company Name: _____
Date: _____