

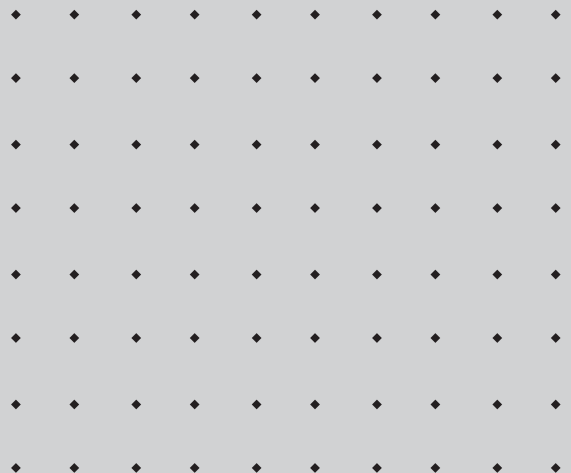


**CARBON
ZAPP**





CZ Service Manuals

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RiD003795

PTBR-X Maintenance Parts



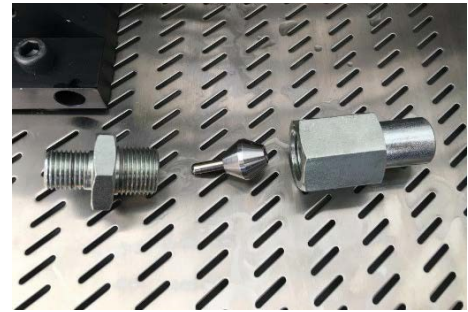
Maintenance

	<p>WARNING!</p> <p>DO NOT RUN THE CONTROLLER WITHOUT ALL THE COVERS FITTED. ALWAYS ISOLATE THE CONTROLLER AT THE MAIN VOLTAGE SUPPLY SWITCH ON THE WALL, BEFORE REMOVING ANY COVERS.</p>
	<p>HIGH VOLTAGE!</p> <p>ACCESS TO THE ELECTRICAL ENCLOSURES SHOULD ONLY BE ALLOWED SUITABLY QUALIFIED PERSONNEL. ISOLATE AND LOCK THE ELECTRICAL SUPPLY OFF BEFORE PERFORMING ANY MAINTENANCE OPERATIONS. DO NOT WORK ON ELECTRICAL EQUIPMENT WHILE VOLTAGE IS SUPPLIED.</p>
	<p>WARNING!</p> <p>ALWAYS ISOLATE AND LOCK OFF THE TEST BENCH ELECTRICAL SUPPLY WHEN PERFORMING MAINTENANCE TASKS ON THE TEST BENCH.</p>
	<p>Impervious gloves and overalls should be worn if contact with ISO4113 test fluid and lubrication oil is likely. Gloves should also be worn when handling fixture parts or injectors after testing which may be hot. Refer to the Health & Safety Data Sheets.</p>

PTBR|X Maintenance Parts

High Pressure Filter

HP rail filter to be checked regularly on a weekly basis as indicated by the AZO software and to be cleaned with ultrasonics when dirty.



PTBR|X Maintenance Parts

DRV Maintenance

High Pressure Regulators (DRVs), should be removed and cleaned with Ultrasonics or replaced with NEW ones ONLY in the case that the pressure cannot be reached or stabilized correctly or the machine diagnostics indicate so.

NOTE: DRV'S ARE NOT COVERED UNDER WARRANTY.

Tightening torque for DRVs is:

- Tighten to 65Nm >> Release for 90° degrees >> Tighten to 85Nm
- DO NOT Exceed 110Nm
- DRV part number: Bosch 0 281 006 246
- DRV Washer Part number: Bosch 1 680 109 139



PTBR|X Maintenance Parts

Waste Tank Maintenance

The WASTE tank should be emptied when the software indicates to check the tank levels.

On the side of the tank (bottom left) there is a drain valve switch to open and drain the waste tank.

Pictures on the right indicate the change of filters. The oil pan below the filters should be drained by the switch shown into the waste tank.



PTBR|X Maintenance Parts

Test Oil Tank & Filters Maintenance

- Do not to allow dirt into the calibrating oil.
- Do not use the oil from the Waste tank in the Calibration Oil tank.
- The calibrating oil tank can be drained via the drain switch in bottom front side the tank.
- Before filling with new calibrating oil, clean the calibrating oil tank by removing the cover on the top.
- The Oil tank capacity is 35 liters. Only use calibrating oil ISO 4113.

All Filters (3 items) should be replaced when indicated by the software, or according to the maintenance table below (whichever comes first).



PTBR|X Maintenance Parts

Ordering Part #	PTBR X Suggested QTY /Unit	Component Photo
CZ-001047	2	
CZ-002602	2	
CZ-002080	1	
CZ-002288	2	
CZ-002908	1	
CZ-002997	2	
CZ-002008	2	
D20L-ISO	2	

PTBR|X Maintenance Parts

Servicing

- PTBR|X unit requires maintenance at regular intervals for efficient operation.
- The maintenance intervals are based on 8-hour operation daily.
- Please follow the maintenance intervals and messages prompts the AZO software provides.
- For advanced diagnosis or if needed to calibrate unit, please refer to your Carbon Zapp dealer.

Maintenance work	1	2	3	4	5
Check high-pressure hoses	-	-	-	-	X
Check hoses	-	X	-	-	X
Change calibrating oil, clean calibrating oil tank	-	X	-	-	X
Drain dirty oil in stowage space of work area	X	-	-	-	X
Replace Oil Filters	X	-	-	-	-
Replace high-pressure rail filter	-	-	X	-	X
Replacing the volume meter filter	-	-	-	X	X
Check accuracy of temperature and pressure measurement	-	-	-	-	X
Check the drive belt	-	-	-	-	X
High Pressure Regulators (DRVs)	-	X	-	-	-
Clean HP Rail Magnetic threaded cap	-	-	-	X	-

Maintenance intervals

- 1 Weekly
- 2 After 200 common rail pump tests; after 2 months at the latest
- 3 Every 6 months; or after 1250 hours or if prompted by software.
- 4 Yearly or after 2500 hours or if prompted by software.
- 5 On main inspection by Customer. Service every 2 years.

After each filter replacement, the filter change must be reset in the "Maintenance Menu" in the AZO software



Main Offices & Production Plant

364 Varis-Koropiou Ave. Koropi
194 42 Athens, Greece

Headquarters

A.I.S. GmbH
75438 Knittlingen, Germany

email contact@carbonzapp.com

tel +30 210 9856110

fax +30 210 9928655

Support / Sales Telephone

+30 210 98 56110

Support email

support@carbonzapp.com

TeamViewer email

tv@carbonzapp.com

Sales email

office@carbonzapp.com

carbonzapp.com