

**MAGNETI
MARELLI**

PARTS & SERVICES

Injectors, pumps testing & repair Magneti Marelli 2025 v.05

ON + ~~Ph⁹⁵~~



VIEW

Table of Contents

COMMON RAIL INJECTORS	3
DSRX CR INJECTOR TESTER.....	3
CRU2RX CR INJECTOR TESTER	5
CTBRX INJECTOR TESTER	7
ITB1RX / ITB4RX INJECTORS TESTERS	9
INJECTORS CODING	12
INJECTOR & PUMP TEST BENCHES MTBRX / PTBRX	13
HEAVY DUTY PUMP & INJECTOR TESTER LTBRX	17
SIMULATOR & CONTROL MODULE ETBRX	18
ACCESSORIES FOR COMMON RAIL INJECTOR TESTERS – separate catalogues	21
GASOLINE INJECTORS	22
GASOLINE INJECTOR TESTER GS4/GS8	22
GASOLINE INJECTOR TESTER GDRX	24
GASOLINE INJECTOR TESTER GDU4RX	25
GASOLINE INJECTOR TESTER GTBR4X	26
FUEL SYSTEM MAINTENANCE	29
DIESEL CRDI & GASOLINE GDI FLUSHING BENCH DGFRX	29
FUEL SYSTEM TREATMENT ES.3 / DI.2	30
FUEL SYSTEM TREATMENT DEVICE ESX / EPX	31
OXHYDRO - ENGINE DECARBONIZATION	33
CR INJECTORS REPAIR	34
3 RD PHASE INJECTOR REPAIR SOLUTION	34
SPECIAL TOOLS	37

COMMON RAIL INJECTORS

DSRX CR INJECTOR TESTER

ON

DSRX (MM: 007935105950)

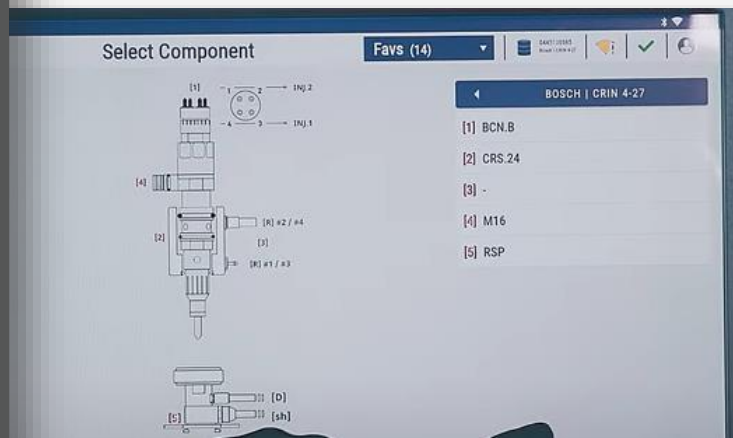
Automatic device for testing common rail injectors. Fast, accurate and reliable testing of diesel CRDi injectors. Fast and reliable XKM fluid mass measurement system.

- injector testing time 6-12 min
- CRI (all brands and types).
- Support for all EU6 technologies such as VCC and NCC technology, iART, PCRS5 and more ...
- CRIN injectors for light vehicles
- CRDi medium power injectors
- Maximum pressure 2000 bar.

New software with new features, including a list of the injector's reference crosses, a detailed description of the connection, the ability to create a reference database. The ability to configure the device in the cloud, thanks to which you gain access to reports, the current state of use of the tester and many other functions.



ACTIONS		Slot # 1	Slot # 2	Slot # 3	Slot # 4
Report					
20/09/2022 12:18:52					
ITB.4r-X					
S/N: 22114077					
Sw Sync: 2022/09/20					
Workshop		Customer			
0445110076		Slot #1	Slot #2	Slot #3	Slot #4
Bosch CRI		Test			
1-(-)					
Original Database					
S/N old					
new					
FL(W)					
STRK	1000.0	msec [RSP]	2000.08		
Inj.1	1000.0	FL(s): 19.1	500.0		
h ₀ (bar)	337.5	RL(s): 19.4	14.3		
LP(bar)	4.0	PT(s): -	14.3		
RPM	1250	250.0 ± 250.3	14.3		
		mm/STRK			
		0.0			
LKT.01					
STRK	1000.0	Visual	70.0		
h ₀ (bar)	200.0	[R]	0.6		
LP(bar)	4.0	35.0 ± 35.3	0.4		
RPM	1250	ml/min			
		0.0			
LKT.02					
STRK	1000.0	Visual	70.0		
h ₀ (bar)	1400.0	[R]	15.3		
LP(bar)	4.0	35.0 ± 35.3	15.2		
RPM	1250	ml/min			
		0.0			



Accessories packages for DSRX:

X-Pack1	----	DS1rX-ih, BCN.B, DFI.01, DFI.02, SVI.01, CZI.01, BPI.01, BCI.01, HP90-M14/F12x15, HP-M12/F14x15, CZ-008541	Standard Package
X-Pack2	007935105220	CZ-007359, RSP, CZ-007124, DG3P-A, DG2P-A, DGxS-C, DGxS-A, DGxS-B)x1	option

Additional accessories for DSRX:

007935105500	RSP	STANDARD NOZZLE RESPONSE SENSOR (7-9mm) (REQUIRES CRU2rX-sh.RSP)
007935105230	DS1rX-sh.RSP	MAIN RSP [sh] HARNESS FOR DS1R X
007935104740	SPR.D	ILLUMINATED PRESSURISED SPRAY CHAMBER.(REQUIRES LED.SPR)
007935105180	LED.SPR	LED.SPR CABLE FOR ILLUMINATED SPRAY TUBE
007935105080	EXCL.BCK_KIT1	EXCLUSIVE RETURN HOSES & FITTINGS KIT FOR CRDI (1 SLOT)

#	Model	DSRX
--	Standalone	●
TYPE	Test Bench	●
USER LEVEL	Workshop / Garage	●
	Test Slots [injectors / Pumps]	[1 / -]
SYSTEMS / APPLICATIONS	CRDi / Smart Injectors [1 / 4]	/ [11]
	Passenger Car / HEV / PHEV	●
	Light Duty	●
	Medium Duty	—
	Heavy Duty / Industrial	—
MEASUREMENT SENSORS	XKM	1
	Volumetric Tubes	—
SYSTEM PRESSURE	Max (BAR)	2000
	Source	AIR
CHARACTERISTICS	Response Sensor	■
	Response Sensor HD	—
	Pressurized Return Hoses / PIRV's	○
	Exclusive Return Hoses Kit	●
	Spray Chamber	○
	Exclusive Electrical Connectors	○
	Mains Power 50/60Hz / 1-Phase 100-250VAC	●
	Air-Supply (Bar / L/min)	6.5 / 250
	Tank Capacity [testing / flushing]	[4 / -]
	HMI (Inches)	10
	Touchscreen	●
	Protective Cover	●
PACKAGING	Width (mm)	540
	Depth (mm)	670
	Height (mm)	810
	Weight (kg)	40

- : Capable / Standard Equipped ○ : Optional
 ■ : Capable / Optionals required — : N/A

CRU2RX CR INJECTOR TESTER ON

CRU2RX (MM: 007935104440)

The most advanced device for testing Common Rail injectors on the market. The possibilities of the device will be appreciated especially by professionals looking for advanced technologies and wide application possibilities.

Using the CRU2RX device, it is possible to generate new codes for Bosch (IMA, ISA), Delphi (C2i, C3i, C4i), Denso (QR Code), CAT, John Deere, Siemens / VDO (IIC) injectors - only for authorized VDO services. In addition, it is possible to perform the piezoelectric element regeneration procedure in Bosch, Denso, and Siemens / VDO injectors. Extensive database for all types of electromagnetic and piezoelectric injectors: Bosch, Delphi, Denso, Siemens / VDO / Continental. Free, automatic software updates via Wi-Fi



Accessories packages for CRU2RX:

X-Pack1	----	CRU2rx-ih, BCN.B, DFI.01, DFI.02, SVI.01, CZI.01, BPI.01, BCI.01, HP90-M14/F12x15, HP-M12/F14x15, CZ-008541, CZ-007356	Standard Package
X-Pack2	007935105120	BC.01, DLC.03, DNC.04.v2, RSP, 007121	option

Additional accessories for CRU2RX:

007935105500	RSP	STANDARD NOZZLE RESPONSE SENSOR (7-9mm) (REQUIRES CRU2rx-sh.RSP)
007935105140	CRU2rx-sh.RSP	MAIN RSP [sh] HARNESS FOR CRU.2R X
007935104740	SPR.D	ILLUMINATED PRESSURISED SPRAY CHAMBER.(REQUIRES LED.SPR)
007935105180	LED.SPR	LED.SPR CABLE FOR ILLUMINATED SPRAY TUBE

	Model	CRU2RX
--	Standalone	●
	Add-On	—
TYPE	Test Bench	●
USER LEVEL	Diesel / Gasoline Specialists	●
	Workshop / Garage	●
	Test Slots [injectors / Pumps]	[1 / -]
SYSTEMS /	CRDi / Smart Injectors [1 / 4]	/ [8]
APPLICATIONS	Passenger Car / HEV / PHEV	●
	Motorcycles	—
	Racing (Gasoline)	—
	Light Duty	●
	Medium Duty	▣
	Heavy Duty / Industrial	—
FEATURES	Coding Capability for Passenger Car / Light Duty	▣
	Coding Capability for Medium/Heavy Duty	—
MEASUREMENT SENSORS	XKM	2
SYSTEM PRESSURE	Max (BAR)	2800
	Source	AIR
	Source Power (HP)	—
CHARACTERISTICS	Response Sensor	▣
	Response Sensor HD	—
	Pressurized Return Hoses / PIRV's	○
	Exclusive Return Hoses Kit	●
	Spray Chamber	○
	Heavy Duty Injector Adapters & Fittings	—
	Heavy Duty Pump Adapters & Fittings	—
	Exclusive Electrical Connectors	○
	Mains Power 50/60Hz /1-Phase 100-250VAC	●
	Mains Power 50/60Hz /3-Phase/PE 380-480VAC	—
	Air-Supply (Bar / L/min)	6.5 / 350
	Water Cooling (requires connection)	—
	Air Cooling	—
	Tank Capacity [testing / flushing]	[4 / -]
	HMI (Inches)	10
	Touchscreen	●
	Flushing / MACC	▣/ —
	Protective Cover	●
PACKAGING	Width (mm)	660
	Depth (mm)	770
	Height (mm)	800
	Weight (kg)	76

● : Capable / Standard Equipped

○ : Optional

▣ : Capable / Optionals required

— : N/A

CTBRX INJECTOR TESTER

ON**CTBRX (MM: 007935107080)**

Technologically advanced, compact device for testing Common Rail injectors. The capabilities of the device have been appreciated by specialists looking for advanced technology and wide application possibilities. The device is equipped with 2 parallel XKM measuring systems. Using devices from the CRTBRX series, it is possible to generate new codes for the main Bosch (IMA, ISA), Delphi (C2i, C3i, C4i), Denso (QR Code), CAT, John Deere, Siemens/VDO (IIC, IIC.2). Mechanical, high-performance drive. 230V power supply. Fully automatic operation, automatic software update via Wi-Fi

- **EU6 compatible: VCC, NCC, iART, PCRS5 and others**
- **Optional HD system support: XPI, F2X, F3X, CRIN 4.2**
- **Max pressure 2500 bar**
- **GDI injector testing option**
- **VDO – CGL gap measurement**



Accessories packages for CTBRX:

X-Pack1	----	CRU2rX-ih, BCN.B, DFI.01, DFI.02, SVI.01, CZI.01, BPI.01, BCI.01, HP90-M14/F12x15, HP-M12/F14x15, CZ-008541, CZ-007356	Standardowe wyposażenie
X-Pack2	007935105120	Zestaw kodowań: BC.01, DLC.03, DNC.04.v2, RSP, 007121	opcja

Additional accessories for CTBRX:

007935105500	RSP	STANDARD NOZZLE RESPONSE SENSOR (7-9mm) (REQUIRES CRU2rX-sh.RSP)
007935105140	CRU2rX-sh.RSP	MAIN RSP [sh] HARNESS FOR CRU.2R X
007935104740	SPR.D	ILLUMINATED PRESSURISED SPRAY CHAMBER.(REQUIRES LED.SPR)
007935105180	LED.SPR	LED.SPR CABLE FOR ILLUMINATED SPRAY TUBE

	Model	CTBRX
--	Standalone	●
	Add-On	—
TYPE	Test Bench	●
USER LEVEL	Diesel / Gasoline Specialists	●
	Workshop / Garage	●
	Test Slots [injectors / Pumps]	[1 / -]
SYSTEMS /	CRDi / Smart Injectors [1 / 4]	/ [8]
APPLICATIONS	Passenger Car / HEV / PHEV	●
	Motorcycles	—
	Racing (Gasoline)	—
	Light Duty	●
	Medium Duty	▣
	Heavy Duty / Industrial	—
FEATURES	Coding Capability for Passenger Car / Light Duty	▣
	Coding Capability for Medium/Heavy Duty	—
MEASUREMENT SENSORS	XKM	2
SYSTEM PRESSURE	Max (BAR)	2500
	Source	230V
	Source Power (HP)	—
CHARACTERISTICS	Response Sensor	▣
	Response Sensor HD	—
	Pressurized Return Hoses / PIRV's	○
	Exclusive Return Hoses Kit	●
	Spray Chamber	○
	Heavy Duty Injector Adapters & Fittings	—
	Heavy Duty Pump Adapters & Fittings	—
	Exclusive Electrical Connectors	○
	Mains Power 50/60Hz /1-Phase 100-250VAC	●
	Mains Power 50/60Hz /3-Phase/PE 380-480VAC	—
	Air-Supply (Bar / L/min)	-
	Water Cooling (requires connection)	—
	Air Cooling	—
	Tank Capacity [testing / flushing]	[4 / -]
	HMI (Inches)	10
	Touchscreen	●
	Flushing / MACC	▣/ —
	Protective Cover	●
PACKAGING	Width (mm)	660
	Depth (mm)	770
	Height (mm)	800
	Weight (kg)	76

● : Capable / Standard Equipped

○ : Optional

▣ : Capable / Optionals required

— : N/A

ITB1RX / ITB4RX INJECTORS TESTERS

ITB1RX air (MM: 007935104420)

ITB1RX water (MM: 007935104430)

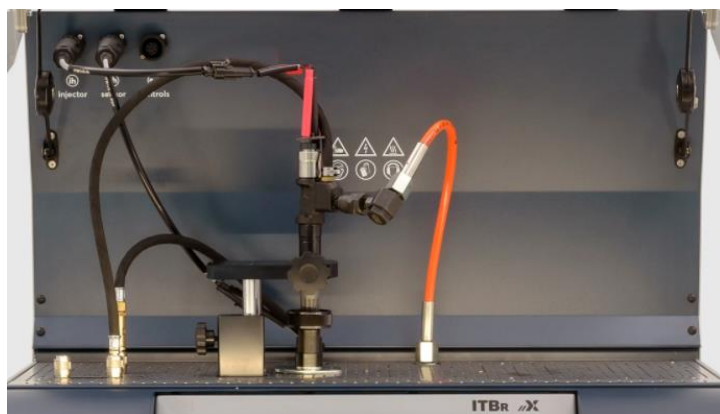
ITB4RX air (MM: 007935104400)

ITB4RX water (MM: 007935104410)



The newest device for testing Common Rail injectors on the market. The possibilities of the device will be appreciated especially by professionals looking for advanced technologies and wide application possibilities. The ITB1RX / ITB4RX test stand is a completely independent, free-standing device with a mechanical drive, suitable for pressures up to 2800 bar. The device can handle all injection systems, including Heavy Duty injectors. The ITB1RX / ITB4RX test stands are available with air or water (water connection required) cooling system.

Using the ITB1RX / ITB4RX series devices, it is possible to generate new codes for Bosch (IMA, ISA), Delphi (C2i, C3i), Denso (QR Code), CAT, John Deere, Siemens / VDO (IIC) injectors - only for VDO authorized services. In addition, it is possible to perform the piezoelectric element regeneration procedure in Bosch, Denso, and Siemens / VDO injectors. Extensive database for all types of electromagnetic and piezoelectric injectors: Bosch, Delphi, Denso, Siemens / VDO / Continental. Free, automatic software updates via Wi-Fi. For ease of use, a drawer for handy keys and adapters is mounted under the screen.



Accessories packages for ITB1RX:

X-Pack1	----	CZ-007356, SVI.01, BCI.01, CZI.01, BCN.B, DFI.01, DFI.02, BPI.01, DEU.01, DGXS-A, DGXS-B, DG2P-A, DG3P-A	Standard Package
X-Pack2	007935105050	BC.01, DLC.03, DNC.04.v2, RSP, 007116	option
X-Pack_3	007935105060	BC.01, DLC.03, DNC.04.v2, CZ-007359, RSP, 007116, CRS.24, CZ-007114, BCN.B	option

Additional accessories for ITB1RX:

007935105500	RSP	STANDARD NOZZLE RESPONSE SENSOR (7-9mm) FOR MTBr X , ITB.1r X , ITB.4r X , GTB.4r X , HTBr X.(REQUIRES ITB1rX-sh.RSP)
007935105090	ITB1rX-sh.RSP	MAIN RSP [sh] HARNESS FOR ITB.1R X
007935104740	SPR.D	ILLIMINATED PRESSURISED SPRAY CHAMBER.(REQUIRES ITB1rX-sh.LED)
007935105100	ITB1rX-sh.LED	MAIN LED [sh] HARNESS FOR ITB.1R X SPRAY TUBES
007935104760	RSP.HD	HEAVY DUTY APPLICATION NOZZLE RESPONSE SENSOR AND DISCHARGE MEASUREMENT CELL FOR ALL MAKES.

Accessories packages for ITB4RX:

X-Pack1	----	[(AZO.B4Mx1], [(SVI.01, BCI.01, CZI.01, BCN.B, DFI.01, DFI.02, BPI.01, DEU.01, DGXS-A, DGXS-B, DG2P-A, DG3P-A, CZ-007356) x 4	Standard Package
X-Pack2	007935104990	[(BC.01, DLC.03, DNC.04.v2)x1], RSPx4, [(007110, 007111) x1]	option
X-Pack_3	007935105000	[(BC.01, DLC.03, DNC.04.v2)x1], [(CZ-007359, RSP)x4], CRS.24x2, [(007110, 007111) x1]	option

Additional accessories for ITB4RX:

007935105500	RSP	STANDARD NOZZLE RESPONSE SENSOR (7-9mm) FOR MTBr X , ITB.1r X , ITB.4r X , GTB.4r X , HTBr X.(REQUIRES ITB4rX-sh.RSP-1/2, ITB4rX-sh.RSP-3/4)
007935105020	ITB4rX-sh.RSP-1/2	ITB.4r X - MAIN RSP [sh] Harness FOR SLOTS #1/#2
007935105030	ITB4rX-sh.RSP-3/4	ITB.4r X - MAIN RSP [sh] Harness for SLOTS #3/#4
007935104740	SPR.D	ILLIMINATED PRESSURISED SPRAY CHAMBER.(REQUIRES ITB4rX-sh.LED-1/2)
007935105040	ITB4rX-sh.LED-1/2	MAIN LED [sh] HARNESS FOR ITB.4R X SPRAY TUBES
007935104760	RSP.HD	HEAVY DUTY APPLICATION NOZZLE RESPONSE SENSOR AND DISCHARGE MEASUREMENT CELL FOR ALL MAKES.
007935106030	CZ-007359	Backleak adapter kit (PIR) [includes 0.8 / 1.3 / 2 / 6 / 10 bar]

	Model	ITB1RX	ITB4RX
--	Standalone	●	●
TYPE	Test Bench	●	●
	Simulator / Controller	—	—
USER LEVEL	Diesel / Gasoline Specialists	●	●
	Workshop / Garage	—	—
	Test Slots [injectors / Pumps]	[1 / -]	[4 / -]
SYSTEMS / APPLICATIONS	CRDi / Smart Injectors [1 / 4]	/ [6]	/ [-/9]
	Passenger Car / HEV / PHEV	●	●
	Light Duty	●	●
	Medium Duty	▣	▣
	Heavy Duty / Industrial	▣	▣
	Marine	▣	▣
FEATURES	Coding Capability for Passenger Car / Light Duty	▣	▣
	Coding Capability for Medium/Heavy Duty	▣	▣
	AUTHORIZED	—	VDO
MEASUREMENT SENSORS	XKM	2	4
SYSTEM PRESSURE	Max (BAR)	2800	2800
	Source	MOTOR	MOTOR
	Source Power (HP)	4.8	4,8
CHARACTERISTICS	Response Sensor	▣	▣
	Response Sensor HD	▣	▣
	Pressurized Return Hoses / PIRV's	○	○
	Exclusive Return Hoses Kit	●	●
	Spray Chamber	○	○
	Heavy Duty Injector Adapters & Fittings	▣	▣
	Heavy Duty Pump Adapters & Fittings	—	—
	Exclusive Electrical Connectors	○	○
	Mains Power 50/60Hz /1-Phase 100-250VAC	●	—
	Mains Power 50/60Hz /3-Phase/PE 380-480VAC	—	●
	Air-Supply (Bar / L/min)	—	—
	Water Cooling (requires connection)	—	●
	Air Cooling	●	—
	Tank Capacity [testing / flushing]	[30 / -]	[30 / -]
	HMI (Inches)	15	15
	Touchscreen	●	●
	Flushing / MACC	▣/ —	▣/ —
	Protective Cover	●	●
PACKAGING	Width (mm)	800	800
	Depth (mm)	1200	1200
	Height (mm)	1750	1750
	Weight (kg)	325	325

● : Capable / Standard Equipped

▣ : Capable / Optionals required

○ : Optional

— : N/A

INJECTOR & PUMP TEST BENCHES

MTBRX / PTBRX ON + ~~Pb⁹⁵~~

MTBRX Air (MM: 007935104360)

MTBRX Water (MM: 007935104370)

PTBRX Air (MM: 007935104380)

PTBRX Water (MM: 007935104390)

The Magneti Marelli MTBRX and PTBRX test stands are modern and efficient tools for precise measurement and testing of technologically advanced injectors and pumps (PTBRX - pumps only) used in Common Rail power systems. The current series of devices also allows testing of high-pressure injectors and pumps used in the power supply systems of GDI / TSI engines.

Magneti Marelli is constantly developing its offer of equipment for testing and repairing injection systems, and the currently offered, fourth generation of devices - the "X" series, is one of the most innovative solutions of this type on the market. The MTBRX device enables diagnostics of coil and piezoelectric injectors and CRp pumps by Bosch, Delphi, Siemens-VDO and Denso, after being equipped with a special Cambox attachment, all types of EUI / EUP unit injectors, as well as GDI injectors and pumps. Test stand is available with air or water (water connection required) cooling system.



Accessories packages for MTBRX:

X-Pack1	----	[(AZO.B4M, CRP_HPOUT2, CRp -IP.3 KIT)x1], [(SVI.01, BCI.01, CZI.01, BCN.B, DFI.01, DFI.02, BPI.01, DEU.01, DGXS-A, DGXS-B, DG2P-A, DG3P-A, CZ-007356) x 4, VDCP.01x2]	Standard
X-Pack2	007935104680	[(BC.01, DLC.03, DNC.04.v22)x1], RSPx4, CZ-007101x1	Optional
X-Pack_3	007935104690	: [(BC.01, DLC.03, DNC.04.v2, VCV.S, CRp-VDD, CRP-CP4.KIT.01, CPN5.01-KIT, CZ-007477, CRP.DNC-HP5.KIT,CZ-007491, ZME-CPN5-01, VCVA.01, VCVA.02, VCV.D1-KIT, CZ-007101)]x1], [(CZ-007359, RSP)x4], CZ-007156x3, CRS.24x2	Optional
X-Pack_4		[(VCV.S, CRp-VDD, CRP-CP4.KIT.01, CPN5.01-KIT, CZ-007477, CRP.DNC-HP5.KIT,CZ-007491, ZME-CPN5-01, VCVA.01, VCVA.02, VCV.D1-KIT)]x1], CZ-007156x3	Optional

Additional accessories for MTBRX:

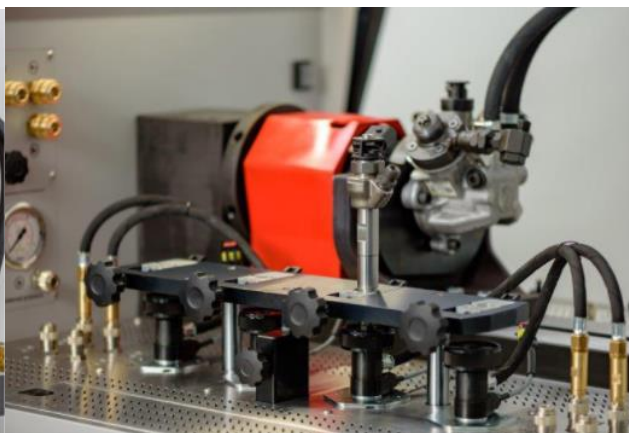
007935104710	GDi CAMBOX	GDi HP Pumps Cambox for reciprocating motion pumps only (not for rotary)
007935103000	SPAR	Piezo stack air remover kit. Used for professional repair & re-assembly of piezo injector valves
007935103830	AZO.MTBR-GDi	SOFTWARE UPGRADE LICENSE FOR TESTING GASOLINE GDi & MPFi INJECTORS ON MTBR
007935103840	MTBR-GDp	SOFTWARE UPGRADE LICENSE FOR TESTING GASOLINE GDi PUMPS ON MTBR
007935105500	RSP	STANDARD NOZZLE RESPONSE SENSOR (7-9mm) FOR MTBr X , ITB.1r X , ITB.4r X , GTB.4r X , HTBr X.(REQUIRES MTBrX-sh.RSP)
007935104730	MTBrX-sh.RSP	MAIN RSP [sh] HARNESS FOR MTBR X
007935104740	SPR.D	ILLIMINATED PRESSURISED SPRAY CHAMBER.(REQUIRES MTBrX-sh.LED)
007935104750	MTBrX-sh.LED	MTBr X - MAIN LED [sh] Harness for spray tubes
007935104760	RSP.HD	HEAVY DUTY APPLICATION NOZZLE RESPONSE SENSOR AND DISCHARGE MEASUREMENT CELL FOR ALL MAKES. INCLUDED NOZZLE PIECE HDA.01, HDA.02

Accessories packages for PTBRX:

X-Pack1	----	[(CRp -IP.3 KIT, CRP_HPOUT2)x1, VDCP.01x2]	Standard Package
X-Pack2	007935104960	[(CRp-VDD, CRp-CP4.KIT, CZ-007477, CRP.DNC-HP5.KIT, CZ-007491)x1, 007156x3]	option
X-Pack_3	007935104970	[(VCV.S, CRp-VDD, CRP-CP4.KIT.01, CPN5.01-KIT, CZ-007477, CRP.DNC-HP5.KIT, CZ-007491, ZME-CPN5-01, VCVA.01, VCVA.02, VCV.D1-KIT)]x1], CZ-007156x3	option

Additional accessories for PTBRX:

007935103840	MTBR-GDp	SOFTWARE UPGRADE LICENSE FOR TESTING GASOLINE GDi PUMPS ON MTBR
007935102010	CRp-VDD	CRp ADAPTERS KIT FOR DELPHI/DENSO/VDO PUMPS
007935103430	CRp CP3.3/3.4	Bosch CP3.3 & CP3.4 (MAN) CRp KIT including flanges, adapters and couplings (Requires CPL-IRK)
007935102040	CRp-CP4.KIT	CRp ADAPTERS KIT FOR BOSCH CP4 PUMPS & AZO SW ACTIVATION (AZO.CP4) (Non-Use of Carbon Zapp's adapter kit will Void machine's warranty & will not be supported by Carbon Zapp's Technical Team) (Requires CRP_HPOUT2)
007935104770	CPN5.01-KIT	Bosch CPN5S2 CRp KIT including flange, adapters, coupling (REQUIRES ZME-CPN5.01)
007935104780	CRP.VDO-EU6.KIT	VDO EU6 CRp KIT including flange, adapters, coupling & AZO Software Activation
007935104790	CRP.DNC-HP5.KIT	DENSO HP5 CRp KIT including flange, adapters, coupling & AZO Software Activation.
007935104800	CRP.HP0-KIT	DENSO HP0 Standalone CRp KIT including flange, adapters, coupling & AZO Software Activation (REQUIRES CPL-IRK, DGXS-B x 2 pcs, EC.03M-HP0)
008495	ZME-CPN5-01	CABLE CONNECTOR FOR CPN5 PUMPS
008420	IHX.EXT80	EXTENSION INJECTOR CABLE FOR ULTRASONIC
007935103620	CRp - CAT	COMPLETE CRp ADAPTERS KIT FOR CATERPILLAR COMMON RAIL PUMPS (Requires CPL-IRK and IHX.02H)
007935103630	CRp-CB18	CRp ADAPTERS FOR ALL TYPES OF BOSCH CB18 CRP PUMPS (Requires CPL-IRK)
007935103640	CRp-CB28	CRp ADAPTERS FOR ALL TYPES OF BOSCH CB28 CRP PUMPS (Requires CPL-IRK)
008172	CPL-IRK	CRp-CPL- INTERNAL RETROFIT KIT. OIL SUPPLY & CONTROL. INTERNAL UPGRADE LUBRICATION SYSTEM FOR CP PUMPS
007935103710	VCVA.01	CR PUMP VOLUME CONTROL VALVE ADAPTER FOR BOSCH CP4 FOR MTBR-D (requires to be ordered with VCV.S)
007935103720	VCVA.02	CR PUMP VOLUME CONTROL VALVE ADAPTER FOR BOSCH CP3 FOR MTBR-D (requires to be ordered with VCV.S)
007935104810	VCV.D1-KIT	CR PUMP VOLUME CONTROL VALVE ADAPTER FOR DENSO HP3/4 (requires to be ordered with VCV.S)



	Model	MTBRX	PTBRX
--	Standalone	●	●
TYPE	Test Bench	●	●
	Service / Diagnostic Unit	—	—
USER LEVEL	Diesel / Gasoline Specialists	●	●
	Test Slots [injectors / Pumps]	[4 / 1]	[- / 1]
SYSTEMS / [TESTING MINUTES]	CRDi / Smart Injectors [1 / 4]	/ [-/9]	—
	GDi Injectors [1 / 4]	/ [-/6']	—
	CR Pumps [1]	/ [6']	/ [6]
	GDi Pumps [1]	/ [6]	/ [6]
	EUI / EUP / Smart EUP [1]	■/ [8]	—
	HEUI [1 / 4]	□ / [-/12]	—
	Gasoline Injectors [1 / 4]	□ / [3/8]	—
	LPG / CNG Injectors [1 / 4]	□ / [3/8]	—
APPLICATIONS	Passenger Car / HEV / PHEV	●	●
	Motorcycles	■	—
	Racing (Gasoline)	■	■
	Light Duty	■	●
	Medium Duty	■	■
	Heavy Duty / Industrial	■	■
	Marine	■	■
FEATURES	Coding Capability for Passenger Car / Light Duty	■	—
	Coding Capability for Medium/Heavy Duty	■	—
MEASUREMENT SENSORS	XKM	4	—
	DFM500	1	1
	DFM50	-	1
SYSTEM PRESSURE	Max (BAR)	2800	2800
	Source	MOTOR	MOTOR
	Source Power (HP)	18	18
CHARACTERISTICS	Response Sensor	■	—
	Response Sensor HD	■	—
	Pressurized Return Hoses / PIRV's	○	—
	Exclusive Return Hoses Kit	●	—
	Spray Chamber	○	—
	Heavy Duty Injector Adapters & Fittings	■	—
	Heavy Duty Pump Adapters & Fittings	■	■
	Exclusive Electrical Connectors	○	○
	Mains Power 50/60Hz /3-Phase/PE 380-480VAC	●	●
	Air Cooling / Water Cooling	●/●	●/●
	Tank Capacity [testing / flushing]	[45 / 15]	[45 / 15]
	HMI (Inches)	15	15
	Touchscreen	●	●
PACKAGING	Flushing / MACC	■/ —	■/ —
	Protective Cover	●	●
	Width (mm)	1060	1060
	Depth (mm)	1150	1150
	Height (mm)	1880	1880
	Weight (kg)	550	550

- : Capable / Standard Equipped ○ : Optional
 ■ : Capable / Optionals required — : N/A

HEAVY DUTY PUMP & INJECTOR TESTER LTBRX

LTBRX (MM: 007935*****)

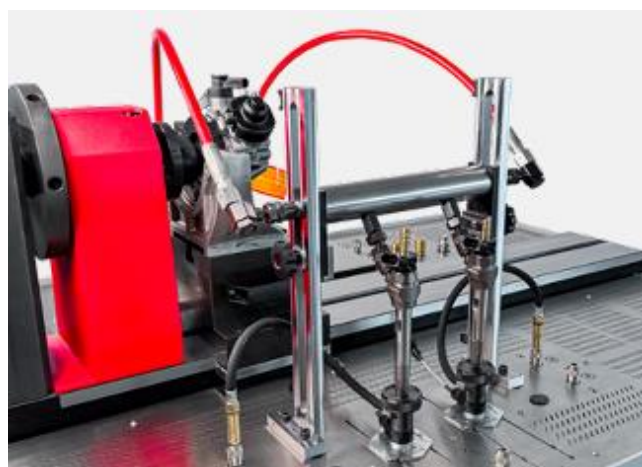
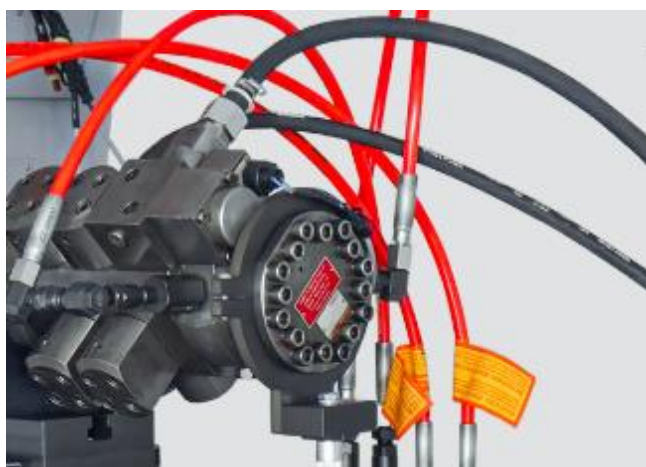
ON + ~~P⁹⁵~~

Designed to test all makes and models of CR pumps and injectors, providing complete versatility and virtually unlimited possibilities.

Almost 10,000 records for pumps and injectors also from locomotives, boats, generators, HD engines and more.

Max pressure +2800 bar

Universal power strip and injector holder.



SIMULATOR & CONTROL MODULE

ETBRX

ETBRX (MM: 007935105890)

ON + ~~PH⁹⁵~~

The most modern electronic control and measurement module on the market, enabling the control and precise measurement of all injection systems used in modern diesel engines. Testing CRDi injectors, CRp pumps and EUI / EUP and HEUI injectors, all types and all manufacturers. Can be mounted on any conventional test bench available on the market. Very compact structure and modern design. Possibility of any configuration: test of 1 or 4 injectors and / or CRp pump. Clear operating interface, quick and convenient installation.

- Test of all types of CR injectors and pumps: Bosch, Delphi, Denso, Siemens / VDO and others, with the reference of the test results to the database.

- Dynamic electronic measurement of fuel mass for both injector and pump testing - high-flow system for pumps, ensuring exceptional accuracy and unprecedented measurement speed (up to 4 minutes!)

- Possibility to work with Cambox (007935101820), and to test HEUI injectors (option)

- Pressure control up to 2,800 bar

- Delphi (C2i / C3i), Bosch (IMA / ISA), Denso (QR code) and other injectors coding

- Fully automatic operation



MM code	ETBRX	TestBench Extension Control Module - 1 slot & Includes 1 Software Feature [CRDi, CRp, Eui/EUp, HEUi, EFi, GDp, GDp] Configurable]
		Software
007935105810	CRDi	CRDi Testing
007935105820	CRp	CRp Testing
007935105830	Eui/Eup	EUi/Eup Testing
007935105840	HEUi	HEUi Testing
007935105850	Gdi/GDp	Gasoline EFI/GDi/GDp Testing
007935105860	4 slots	4 Slots Testing
		Hardware / measurement
007935105900	Measure 1 slot	Measure 1 Slot Injector
007935105910	Test 4 slots	Testing 4 Slots Injector (required 4 slots)
007935105920	Measure 4 slots	Measure 4 Slot Injector (required Test 4 slots)
007935105930	Upgr test 4 slots	Upgrade to 4 Slot Injector (required Measure 1 slot)
007935105940	Measure CRp	Measure Pump (1 Slot) Includes External Cooling Module. Required Measure 1 /4 slot



Measure 1 CRDi

Measure 4 CRDi and 1 CRp

Measure 1 CRp

BCR.4 (MM: 007935106010) / BCR.1 (MM: 007935106000) - Holder for 4/1 injectors testing

Holder for 4 injectors with built-in Common-Rail rail with pressure regulation (RDS sensor and DRV valve), high-pressure hoses for connecting the injector and a cover. Ready to be mounted on any conventional test bench. Thanks to it, it is possible to conveniently install and test up to 4 injectors, using the ETBRX module

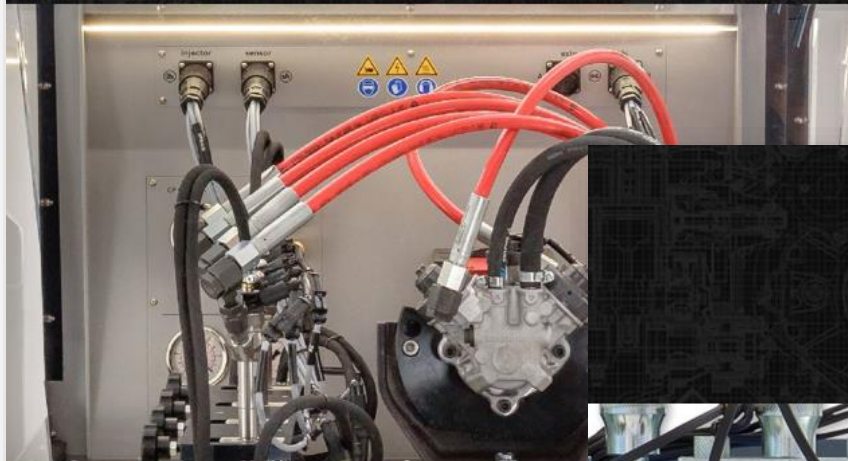


	Model	ETBRX
	Przystawka	●
TYPE	Test bench	●
DESTINY	Diesel / petrol - the specialist	●
	Test slots [injectors / pumps]	[1 or 4 / 1]
TESTED SYSTEMS [TEST TIME]	CRDi / Smart Injector [1 / 4]	●
	GDi injectors [1 / 4]	—
	CR pumps [1]	●
	GDi pumps [1]	○
	EUI / EUP / Smart EUP Injectors [1]	■ / [8]
	HEUI injectors [1 / 4]	■ / [-/12]
	Petrol injectors [1 / 4]	■ / [-/8]
	LPG / CNG injectors [1 / 4]	■ / [-/8]
APPLICATION	Cars / HEVs / PHEVs	●
	Motorcycles	■
	racing (gasoline)	■
	Light Duty	■
	Medium Duty	■
	Heavy Duty/Industrial	■
	Marine	■
FUNCTIONS	Possibility of coding for cars / light trucks	■
	Coding capability for medium/heavy cars	■
MEASURING SYSTEM	XKM	1
	BC	-
	DFM500	1
	DFM50	—
MAX PRESSURE	Max (BAR)	2800
	Source	external
CHARACTERISTIC	RSP sensor	■
	RSP HD sensor	■
	Set of overflow connections	■
	Sputter observation chamber	■
	Heavy Duty injector adapters and fittings	■
	Adapters and couplings for Heavy Duty pumps	■
	A set of electrical connectors	■
	Liquid air cooling	●
	Power supply 50/60Hz /1-Phase 100-250VAC	●
	Power supply 50/60Hz /3-Phase/PE 380-480VAC	—
	Tank capacity [testing/rinsing]	[- / -]
	HMI (inch)	10
	touchscreen	●
	Width (mm)	450/510
	Depth (mm)	460/600
	Height (mm)	1030/570
	Weight (kg)	50/23

● : Capable / Standard Equipped
 ■ : Capable / Optionals required

○ : Optional
 — : N/A

ACCESSORIES FOR COMMON RAIL INJECTOR TESTERS – separate catalogues



Akcesoria do testerów wtryskiwaczy i pomp Magnetit Marelli 2025 v.02

Marelli Aftermarket Poland Sp. z o.o.
Plac pod Lipami 5, 40-475 Katowice, Poland
Tel. +48 32 60 36 145 • Fax +48 32 60 36 145
www.wyposazzenieinm.pl



Akcesoria do testerów wtryskiwaczy i pomp GDI Magnetit Marelli 2025 v.02

Marelli Aftermarket Poland Sp. z o.o.
Plac pod Lipami 5, 40-475 Katowice, Poland
Tel. +48 32 60 36 145 • Fax +48 32 60 36 145
www.wyposazzenieinm.pl

GASOLINE INJECTORS

GASOLINE INJECTOR TESTER GS4/GS8

GS4.10 (MM: 007935104610)

GS4.20 (MM: 007935104620)

GS8.10 (MM: 007935104630)

GS8.20 (MM: 007935104640)



Thanks to GS series devices, it is possible to detect the causes of incorrect engine operation:

- Increased exhaust emissions / increased fuel consumption
- Reduced engine performance (power, torque)
- "Hard" engine idling, stalling, problems with engine starting

Thanks to the use of illuminated (LEDs) measuring cups, it is possible to observe and evaluate:

- uniformity of the injected fuel stream, its shape
- fuel flow rate - IVM test. (with an accuracy of $\pm 1\text{ml} / 130\text{ml}$)

Device characteristics:

Automatic device for testing and cleaning of gasoline injectors, including:

MPI multi-point injection

TBI single point injection

LPG, CNG

Features:

- Working pressure 0-10 bar
- Fully configurable test plans (GS4/GS8)
- Automatic (GS4/GS8) operating mode
- Engine load simulation tests
- Ergonomic and user-friendly design
- Short test time / Automatic function
- Ergonomic, durable, quick and easy to use injector mounting adapters
- Spray and expense test
- Injector circuit protection
- Back flushing of the injector after cleaning in an ultrasonic cleaner



STANDARD EQUIPMENT:

adapter set for injectors supplied from the top (Top Feed) - versions GS2/4.10

set of top and side fed injector adapters (Top Feed and Side Feed) - GS2/4.20 versions

1.5l ultrasonic cleaner

Test fluid and ultrasonic cleaner



	Model	GS4/10	GS4/20	GS8/10	GS8/20
--	Standalone	●	●	●	●
TYPE	Test Bench	●	●	●	●
USER LEVEL	Diesel / Gasoline Specialists	○	○	○	○
	Workshop / Garage	●	●	●	●
	Test Slots [injectors / Pumps]	[4 / -]	[4 / -]	[8 / -]	[8 / -]
SYSTEMS	GDi Injectors [1 / 4]	●	●	●	●
	Gasoline Injectors [1 / 4]	●	●	●	●
	LPG / CNG Injectors [1 / 4]	●	●	●	●
APPLICATIONS	Passenger Car / HEV / PHEV	●	●	●	●
	Motorcycles	●	●	●	●
	Racing (Gasoline)	●	●	●	●
	Marine	■	■	■	■
MEASUREMENT SENSORS	Volumetric Tubes	4	4	8	8
SYSTEM PRESSURE	Max (BAR)	10	10	10	10
	Source	ELECTR. PUMP	ELECTR. PUMP	ELECTR. PUMP	ELECTR. PUMP
	Spray Chamber	●	●	●	●
	Mains Power 50/60Hz /1-Phase 100-250VAC	●	●	●	●
	Tank Capacity	[4 / -]	[4 / -]	[4 / -]	[4 / -]
	HMI (Inches)	LCD	LCD	LCD	LCD
	Ultrasonic Bath	●	●	●	●
PACKAGING	Width (mm)	660	440	440	440
	Depth (mm)	770	640	640	640
	Height (mm)	800	550	550	550
	Weight (kg)	73	32	34	38

● : Capable / Standard Equipped

○ : Optional

■ : Capable / Optionals required

— : N/A

GASOLINE INJECTOR TESTER GDRX

GDRX (MM: 007935105960)

The latest device for testing gasoline direct injection systems (G-DI, FSI, HPI, JTS). The GDRX series devices are characterized by a compact design and very intuitive operation. Thanks to the maximum working pressure of 450 bar, they allow you to test virtually all injectors on the market..

Device characteristics

- Test of all types of electromagnetic and piezo injectors
- EU6 technology injectors test with signal energy control
- Working pressure up to 450 bar
- Electronic measuring system - dynamic mass measurement XKM
- Unique PIEZO stack regeneration function
- Free database update
- Working in automatic mode
- Built-in 10 "Android tablet
- Clearly presented test results with the possibility of printing
- Adapter kits available for powering all types of injectors
- testing time for the injector - 5-7 minutes



Report									
ITB.4r-X									
20/09/2022 12:18:52									
S/N: 22114077									
Sw Sync: 2022/09/20									
Workshop									
Customer									
0445110076									
Bosch (CRI									
T-4)									
Original Database									
S/N									
old									
IMA									
NEW									
FL(W)									
mass [RSP]									
2000.05									
STBX 1000.0									
Inj.1 1000.0									
Inj.2 887.5									
LP (bar) 4.5									
RPM 1250									
FL (cc) 19.1									
RL (cc) 19.4									
PT (cc) --									
[D] 14.3									
200.0 +/- 200.0									
max (STBX)									
0.0									
LKT.01									

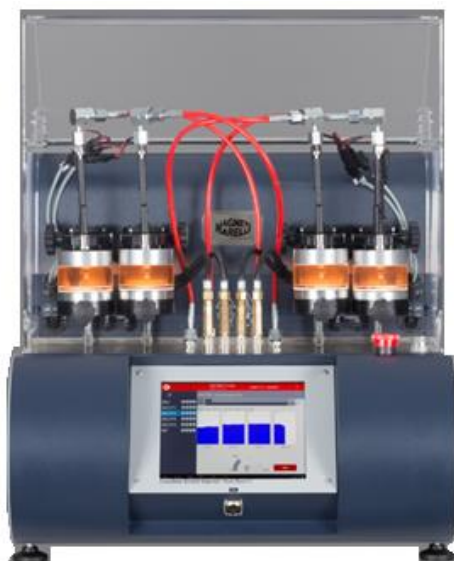
GASOLINE INJECTOR TESTER GDU4RX

GDU4RX (MM: 007935104570)

The GDU4RX device is one of the most advanced devices on the market for testing all direct petrol injection systems. Thanks to the maximum working pressure of 650 bar, they allow you to test all injectors on the market. **New injector codes generation function available (GCC.06)**

Device characteristics

- Test of all types of electromagnetic and piezo injectors
- Support for 4 injectors
- Working pressure 650 bar
- Electronic measuring system - dynamic mass measurement
- Unique PIEZO stack regeneration function
- Free database update
- Working in automatic mode
- Built-in 10 "Android tablet
- Clearly presented test results with the possibility of printing
- Adapter kits available for powering all types of injectors



Accessories packages for GDU4RX:

X-Pack1	----	(GDi.ADAPTERS-KIT.01, GDi.WIRES-KIT.01)x4; UPL.11x1	Standard Package
X-Pack2	007935105440	GCC.06x1, GDU4rX-sh.RSP-1/2, GDU4rX-sh.RSP-3/4, RSPx4	option
X-Pack_3	007935105450	(BfK.02, GDI LP-KIT.01, UB-15E, Y4L)x1, EXT.50x4	option

Additional accessories for GDU4RX:

007935105500	RSP	STANDARD NOZZLE RESPONSE SENSOR (7-9mm) FOR MTBr X , ITB.1r X , ITB.4r X , GTB.4r X , HTBr X.(REQUIRES GDU4rX-sh.RSP-1/2, GDU4rX-sh.RSP-3/4)
007935105460	GDU4rX-sh.RSP-1/2	MAIN RSP [sh] HARNESS FOR GDU.4R X SLOTS #1/#2
007935105470	GDU4rX-sh.RSP-3/4	MAIN RSP [sh] HARNESS FOR GDU.4R X SLOTS #3/#4
007935105410	SRP.G	PRESSURIZED ILLUMINATED SPRAY TUBE (7-9mm) NOZZLE FOR GASOLINE UNITS [p/c] [Requires LED.SPR]
	LED.SPR	LED.SPR CABLE FOR SPR.D/G ILLUMINATED SPRAY TUBE
007935104850	EXT.50	EXTENSION INJECTOR CABLE 50cm
007935103970	UPL.11	UPGRADE LOW PRESSURE TESTING CAPABILITY 0-10BAR FOR TESTING UNITS (For GDU.4R X) INCLUDES UPL.PCB (SUGGESTED: GDI LP-KIT.XX)

GASOLINE INJECTOR TESTER GTBR4X

GTBR4X air (MM: 007935104550)

GTBR4X water (MM: 007935104560)

The newest GDI injector testing device on the market. The possibilities of the device will be appreciated especially by professionals looking for advanced technologies and wide application possibilities. The GTBR4X test stand is a completely independent, free-standing device with a mechanical drive, suitable for pressures up to 1200 bar. The device can handle all GDI injection systems. The GTBR4X test stand is available with air or water (water connection required) cooling system.

By means of devices from the ITB1RX / ITB4RX series, it is possible to generate new codes for SIEMENS BMW injectors. Moreover, it is possible to perform the piezo element regeneration procedure in piezoelectric injectors. Extensive database for all types of injectors. Free, automatic software updates via Wi-Fi

Device characteristics

- Test of all types of electromagnetic and piezo injectors
- Support for 4 injectors
- Working pressure up to 1200 bar
- Electronic measuring system - dynamic mass measurement
- Unique PIEZO stack regeneration function
- Free database update
- Work in automatic mode
- Built-in 15" Android tablet
- Clearly presented test results with the possibility of printing
- Adapter kits available for powering all types of injectors
- **SIEMENS BMW injector coding function**



Accessories packages for GTBR4X:

X-Pack1	----	[(GDA.ADAPTERS-KIT.01, GDi.WIRES-KIT.01)x4], UPL.11x1	Standard Package
X-Pack2	007935105360	GCC.06x1, RSPx4,CZ-007110, CZ-007111x1	option
X-Pack_3	007935105370	[(BFK.02.B, UB-15E, Y4L)x1], [(EXT.50,CZ-005977,CZ-005950)x4]	option

Additional accessories for GTBR4X:

007935104710	GDi CAMBOX	GDi HP Pumps Cambox for reciprocating motion pumps only (not for rotary)
007935105500	RSP	STANDARD NOZZLE RESPONSE SENSOR (7-9mm) FOR MTBr X , ITB.1r X , ITB.4r X , GTB.4r X , HTBr X.(REQUIRES GTB4rX-sh.RSP-1/2, GTB4rX-sh.RSP-3/4)
007935105390	GTB4rX-sh.RSP-1/2	MAIN RSP [sh] HARNESS FOR GTB4R X SLOTS #1/#2
007935105400	GTB4rX-sh.RSP-3/4	MAIN RSP [sh] HARNESS FOR GTB4R X SLOTS #3/#4
007935105410	SRP.G	PRESSURIZED ILLUMINATED SPRAY TUBE (7-9mm) NOZZLE FOR GASOLINE UNITS [p/c] [Requires GTB4rX-sh.LED-1/2]
007935105420	GTB4rX-sh.LED-1/2	MAIN LED [sh] HARNESS FOR GTB4R X SPRAY TUBES

GCC.06 (MM 007935103520) - SIEMENS BMW injector coding function - one-time software activation

To use the coding function, the GDU series device must be modified with the UPL.PCB set, and the low pressure measuring set (0-10bar) for the specific device model: UPL.11, and must be equipped with RSP sensor (MM 007935103160



actuator info		SLOT 1	
VDO	SN*	100512	✓
13537589048	FD		
	Old	599215	
GDI-Piezo	GCC		
	New	571232	
	GCC		

007935102150	Back leak flushing kit for GD1RX i GDU4RX
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	Model	GTB4RX	GDU4RX	GDRX
--	Standalone	●	●	●
TYPE	Test Bench	●	●	●
	Service / Diagnostic Unit	—	—	—
USER LEVEL	Diesel / Gasoline Specialists	●	●	-
	Workshop / Garage	○	○	●
	Test Slots [injectors / Pumps]	[4 / 1]	[4 / -]	[1 / -]
SYSTEMS /	CRDi / Smart Injectors [1 / 4]	—	—	
[TESTING MINUTES]	GD i Injectors [1 / 4]	/ [-/6]	/ [-/10]	●
	GD i Pumps [1]	□ / [5]	—	
	Gasoline Injectors [1 / 4]	■	○	—
	LPG / CNG Injectors [1 / 4]	■	○	—
APPLICATIONS	Passenger Car / HEV / PHEV	●	●	●
	Motorcycles	●	●	●
	Racing (Gasoline)	●	●	—
	Light Duty	●	●	—
FEATURES	Coding Capability for Passenger Car / Light Duty	■	■	—
MEASUREMENT SENSORS	XKM	4'	-	1
	BK	—	1	—
SYSTEM PRESSURE	Max (BAR)	1200	650	450
	Source	MOTOR	AIR	AIR
	Source Power (HP)	4',8	—	—
CHARACTERISTICS	Response Sensor	■	■	■
	Spray Chamber	○	○	○
	Exclusive Electr Connec	○	○	○
	Mains Power 50/60Hz /1-Phase 100-250VAC	●	●	●
	Air-Supply (Bar / L/min)	—	/ (6.5/300)	(6.5/300)
	Water Cooling	—	—	
	Air Cooling	●	—	
	Tank Capacity [testing / flushing]	[30 / -]	[5 / -]	[5 / -]
	HMI (Inches)	15	10	8
	Touchscreen	●	●	●
	Flushing / MACC	■/ —	—	—
	Protective Cover	●	●	●
PACKAGING	Width (mm)	800	660	540
	Depth (mm)	1200	770	670
	Height (mm)	1750	800	810
	Weight (kg)	325	90	42

● : Capable / Standard Equipped

■ : Capable / Optionals required

○ : Optional

— : N/A

FUEL SYSTEM MAINTENANCE

DIESEL CRDI & GASOLINE GDI FLUSHING BENCH DGFRX

DGFRX (MM: 007935105880)

The newest device for flushing injectors of gasoline direct injection systems (G-DI, FSI, HPI, JTS) and Common Rail injectors. Devices from the GDFRX series are characterized by a compact design and very intuitive operation. The maximum working pressure of 1000 bar allows you to carry out the flushing process of all types of injectors present on the market. Up to 4 injectors can be flushed at the same time.

Fast injector mounting thanks to the new mounting rail and optimized handling for increased work efficiency.

Devices recommended for authorized VDO services



	Model	GDFRX
--	Standalone	●
	Workshop / Garage	●
[TESTING MINUTES]	GDi Injectors [1 / 4]	●
	CRDi Injectors [1 / 4]	●
SYSTEM PRESSURE	Max (BAR)	1000
	Source	AIR
	Mains Power 50/60Hz /1-Phase 100-250VAC	●
	Air-Supply (Bar / L/min)	(6.5/300)
	HMI (Inches)	8
	Touchscreen	●
	Protective Cover	●
PACKAGING	Width (mm)	660
	Depth (mm)	770
	Height (mm)	800
	Weight (kg)	63

FUEL SYSTEM TREATMENT ES.3 / DI.2

ES.3 (MM: 007935104650)

DI.2 (MM: 007935104660)



The ES.3 device guides you step by step through the fuel system flushing cycle. The information is displayed on the LCD screen, Automatic operation mode that does not require the intervention of a mechanic during the cleaning procedure. The fuel pressure generated by the device is automatically adjusted to the pressure in the vehicle's fuel system. Power is supplied from a serviced vehicle - 12 V.

Features:

- Double tank system (for gasoline and diesel)
- Automatic pressure regulation
- Adaptable to all car brands and models
- Possibility to clean the intake manifold (requires an additional IMC.01 adapter)
- Possibility to clean the DPF filter (requires an additional DPF.01 adapter)
- Automatic / manual functions
- User-friendly operating interface
- Portable, lightweight and durable construction

Supported Systems:

Common Rail Diesel, Conventional Diesel, Direct petrol injection (G-DI, FSI, HPI), Multi-point and single-point gasoline injection (MPFI, TBI, CIS, other), Carburetor, LPG



For users who want to focus on cleaning the DPF filter and cleaning the intake manifold, without major investment, there is a device for cleaning the intake manifold and cleaning the diesel particulate filter **DI.2**



FUEL SYSTEM TREATMENT DEVICE

ESX / EPX

ESX (MM: 007935*****)

EPX (MM: 007935*****)

ON + ~~Pb~~⁹⁵

Decarbonization of Diesel and Gasoline Engines.

DPF and Intake Manifold Cleaning.

Applications: Diesel (CR and older); Gasoline Direct Injection (G-Di, FSI, HPI, CGI, etc.); Indirect Fuel Injection (MPFI / TBI / CIS); LPG and Alternative Fuels; Carbureted Engines.

Reduce Exhaust Emissions by Up to 70%

Restore Engine Performance and Optimize Fuel Consumption

3 Tanks

LCD Display



007935100530

ACCESSORIES FOR ES.3/DI.2

007935095490		Treatment fluid for ES.3 (285 ml x 24 containers)
007935095500		Treatment fluid for ES.3 25l
007935101770	IMCD-2L	Intake manifold cleaning fluid for ES.3/DI2 - 2l
007935101670	DPF.2L	DPF filter cleaning fluid for ES.3 - 2l
007935100530	DPF.01	Set of 3 different adapters for DPF filters for ES.3 and DI2
007935101460	AEAK.01	Exclusive Fuel System Adapters Kit (Quick Connectors)
007935101470	IMC.01	Intake manifold cleaning adapter for ES.3 and DI2



007935101470



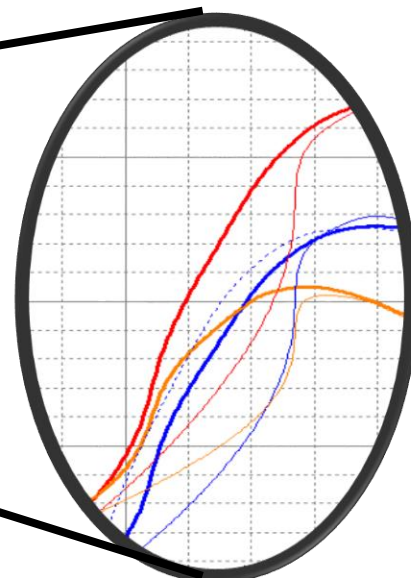
007935100530

OXHYDRO - ENGINE DECARBONIZATION

ON + ~~Pb~~⁹⁵

OXHYDRO (MM: 007935200100)
OXHYDRO PLUS (MM: 007935200140)
INTAKE CLEANER (MM: 007935200145)

The oxyhydrogen produced by the device is introduced into the intake channel, mixing with the air sucked in by the filter. Its effectiveness begins in the combustion chamber, where through the chemical process of pyrolysis, which increases the combustion temperature, it eliminates all residues from: the head, piston, cylinder, injector nozzle, valves, spark plugs, glow plugs, etc. metals, because the heat is concentrated in the exhaust gases. This heat, together with the moisture created as a result of gas combustion, is released together with the exhaust gases, which are decarbonized while passing through: the EGR valve, turbocharger, lambda probe, catalytic converter and FAP/DPF filter. The INTAKE CLEANER device (as a stand-alone device, or built into OXHYDRO PLUS), using the properties of a special fluid, allows for cleaning the intake channels, complementing the service offer. There are many reasons that cause carbon deposits to settle in the vehicle's engine. Using HHO technology, vehicle performance can be restored in an easy, fast and innovative way. Hydrogen oxy has an extraordinary cleaning capacity, in fact, thanks to electrolysis, a "gas" is produced that allows you to clean all sensitive engine parts in just a few minutes.



Increased power and torque values at lower engine speeds.



007935200150



CR INJECTORS REPAIR

3RD PHASE INJECTOR REPAIR SOLUTION

ON



BOSCH+SIEMENS/VDO+DENSO (MM: 007950030985)

BOSCH (MM: 007950030995)

SIEMENS/VDO+DENSO BEZ PC (MM: 007950031005)

SIEMENS/VDO+DENSO UPGRADE (MM: 007950031000)

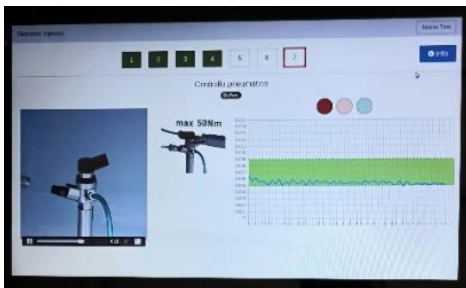
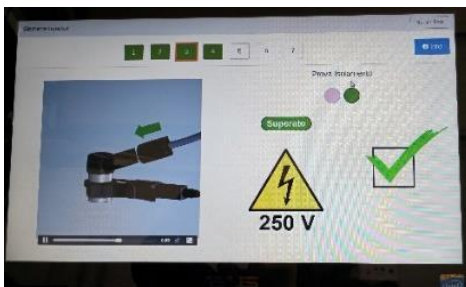
Technology to repair Bosch, Siemens / VDO, Denso injectors, the so-called "Third phase". It is an indispensable element of the equipment of the injector regeneration workshop, thanks to which it is possible to select all setting dimensions and comprehensive regeneration of the injector.

Our equipment is based on a computer with a touch screen and allows micrometric control of the calibration size with an accuracy of 0.001 mm. All measurements made using sensors during the repair procedure are automatically sent to the computer, which, by analyzing the measurements made, corrects the thickness of the adjusting elements (washers). Performing such a procedure guarantees that the injector will work properly.



Examples of measurements that can be performed on BOSCH injectors:

Control of the electric control of the coil
Ball / armature pitch measurement
Air gap measurement
Injector needle stroke measurement
Sprayer spring pressure adjustment
Injector coil insulation check



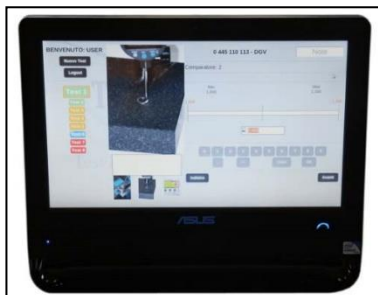
Examples of measurements that can be performed on VDO injectors:

Resistance test
Capacity test
Piezoelectric element performance test
Insulation test
Piezo Gap Measurements
Pneumatic control of the piezo coil tightening torque

Measurement and selection of elements when adjusting DENSO



Components of the Bosch, Siemens, Denso set (007950030985)



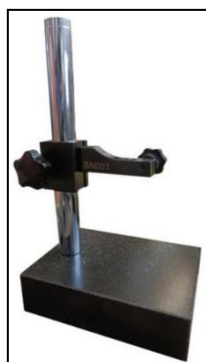
PC with software



JTD tester



Electronic torque wrench



Measuring vice, comparator base, vice to unscrew the injector nozzle, press for CRI2.1



Comparators, measuring tools, necessary mounting sleeves, adapters and harnesses

SPECIAL TOOLS

Kompletny zestaw narzędzi specjalistycznych do demontażu i montażu wtryskiwaczy Bosch CRI+CRIN

007950010210



Zestaw 2 pętł antymagnetycznych

007950010150



Zestaw nasadek heksagonalnych do odkręcania końcówek wtryskiwaczy, rozmiary: 14/15/17/19 mm

007950010770



Kompletny zestaw narzędzi specjalistycznych do demontażu i montażu wtryskiwaczy Bosch CRIN

007950010220



Uniwersalny zacisk do mocowania wtryskiwaczy w imadle, z regulowanym rozstawem szczęk

007950010750



Kompletny zestaw narzędzi specjalistycznych do demontażu i montażu wtryskiwaczy Bosch CRI

007950010230



Nasadka heksagonalna do odkręcania końcówek we wtryskiwaczach IVECO DAILY 17,5MM

007950010730



Pojemnik do bezpiecznego przechowywania i transportowania wtryskiwaczy

007950010240



Podstawa z elektronicznym komparatorem do ustawiania i pomiaru podkładek wtryskiwaczy, z dwoma uchwytyami wtryskiwaczy 17mm i 19mm

007950010310



Klucz do demontażu cewki wtryskiwacza, (6-kątny, 30 mm)

007950010720



Specjalne imadło do montażu i pomiaru wtryskiwaczy COMMON RAIL

Specjalne imadło umożliwiające odkręcenie, zgodnie z zaleceniami producentów wtryskiwaczy, nakrętki rozpylacza. W komplecie zestaw tarcz kątowych i tulejek potrzebnych przy montażu wtryskiwacza, oraz komparator elektroniczny wykorzystywany do pomiaru elementów wtryskiwacza

007950010630



Nasadka z tuleją prowadzącą do odkręcania zespołu zaworu we wtryskiwaczu Siemens

007950010820



Nasadka 3-pinowa do demontażu wewnętrznej nakrętki pierścieniowej wtryskiwacza Denso

007950010840



Myjka ultradźwiękowa
42kHz/1.5 L

007935095210



Pin do nasadki do
demontażu grupy zaworu
Denso 007950010840

007950030005



Zestaw 6 heksagonalnych
kluczy POD KLUCZ 1/2" 15,
17, 19, 27, 29, 30cMM

007950010320



Nasadka 3-pinowa do
demontażu wewnętrznej nakrętki
pierścieniowej wtryskiwacza Delphi

007950010790



Nasadka do demontażu wewnętrznej
nakrętki pierścieniowej wtryskiwacza
Bosch, heksagonalna 10 mm, otwór
6,5 mm i 7,5 mm

007950010800



Nasadka do demontażu
wewnętrznej nakrętki pierście-
niowej wtryskiwacza Denso

007950030025



Pozycjoner uszczelnienia teflonowego
Bosch CRI (0.986.613.640)

007950011450



Pozycjoner uszczelnacza teflonowego
we wtryskiwaczach Bosch CRIN
(0.986.613.646)

007950010670



Pozycjoner uszczelnacza teflonowego
we wtryskiwaczach Bosch CRIN
(0.986.613.648)

007950010680



Klucz do demontażu cewki
wtryskiwacza, (6-kątny, 29 mm)

007950010710



Pasta do polerowania
gniazda kulki

007950010380



Imadło do montażu końcówek wtryskiwaczy i pompowtryskiwaczy
z kompletem szczęk (0.986.613.400 + 0.986.613.500)
Przyrząd do demontażu i ponownego montażu pompowtryskiwaczy,
wyposażony w płytki do wszystkich obsad wtryskiwaczy Common Rail.

007950010250



Stanowisko do profesjonalnej naprawy
wtryskiwaczy z oświetleniem
i odpylaniem

007950011550



Docisk do imadła do VW
(do użytku z 007950010250)

007950011595



Elektroniczny miernik do pomiaru siły nacisku. Ogniwo obciążające z cyfrowym wskaźnikiem obciążenia.



007950010260

Chwytak do pompowtryskiwaczy



007950010270

Adapter testowy do sprawdzania końcówki pompowtryskiwacza VW 04147203xx (1.683.355.057)



007950011560

Adapter testowy do sprawdzania końcówki pompowtryskiwacza VW 04147200xx, 04147201xx, 04147202xx (1.683.355.056)



007950011570

Adapter testowy kontroli wyważenia pompowtryskiwacza EUI Audi, gwint 25x0,75 mm (1.681.398.038)



007950011580

Narzędzie do frezowania brzegu wtryskiwacza



007935063350

Narzędzie do oczyszczania gniazda wtryskiwaczy Denso 17-19 mm



007935063360

Zestaw do manualnego pomiaru ciśnienia paliwa do 2500 BAR

007935095600



Miernik oporności i pojemności - tester LCR

007950030870



Miernik pozwala na dokładny pomiar oporności i ciągłości pomiędzy pinami wtyczki wtryskiwacza i jego korpusu. Dzięki niemu możliwa jest dokładna ocena pojemności stosu piezoelektrycznego we wtryskiwaczach piezoelektrycznych.

Miernik izolacji wysokonapięciowy

007950030875



Miernik pozwala zdiagnozować na obecność zwarc wtryskiwacze cewkowe i piezoelektryczne. Umożliwia pomiar przy napięciu 250V (i większym) i prądzie testowym 1mA



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