

TK1026 injectester•CRb

Common Rail Injector Test Stand

**Diagnose the Faulty Common Rail Injector
Test and Verify after Repairing**



TK1026 Injectester•CRb is capable to test both electromagnetic and piezzo injectors from Bosch, Delphi, Denso and Siemens.

Computerized controls and 10" LCD screen lets the user to have detailed test report print outs.

Special high pressure pump provides up to 1800 bars electronically regulated pressure for testing all types of common rail injectors with accuracy.

Injection Delay Time Measurement helps to diagnose the inconsistent operation due to wear in solenoid and springs in the injectors.

TK1026 injectester•CRb stores all test plans for BOSCH, DELPHI, DENSO and SIEMENS in the database. The database is upgraded periodically to include test plans for new injectors.

Users can also define their own test plans using Test Plan Menu in the control software.



ISO 9001
BUREAU VERITAS
Certification

N° 223176



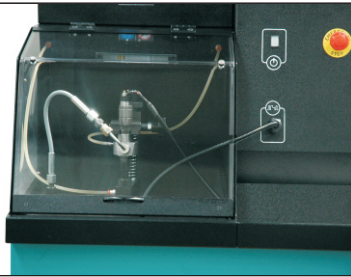
TK1026

MAK TEST®

injectester•CRb

Quick Test with Quick-Clamp

It takes only seconds to mount the injector and test. Quick-Clamp injector clamping system with flexible high pressure hose connection makes life easy for the user. Various sizes of injectors can be mount to quick clamp without having to use numerous adaptors.



Triple Injection at Each Cycle

Perfect performance in testing common rail injectors is standard only at TK1026 injectester•CRb. Triple injection capability at each injection cycle provides higher accuracy in testing and shorter test time for piezzo injectors.



Test Plans for Bosch, Delphi, Denso and Siemens Injectors

test plan 1 / 0 / test step : 1 / 3 / update		1	2
test type W	main µSec 600	3	4
pressure (700 - 1800) 900	open 0	5	6
pressure limit (pa - 100) 10	post µSec 0	7	8
pilot µSec 0	engine rpm 400	9	0
open 0	shot 200		
<input type="button" value="previous"/> <input type="button" value="next"/> <input type="button" value="del"/>			
<input type="button" value="search"/> <input type="button" value="exit"/> <input type="button" value="new plan"/> <input type="button" value="edit"/> <input type="button" value="save"/>			

TK1026 injectester•CRb has a user friendly database that stores test plans for all types of injectors. Database is upgraded to include test plans for new injectors periodically by Maktest. User can define his own test plans using test plan data base menu.

Accessories Delivered with TK1026 injectester•CRb

- AP1638 Delphi Injector Cable
- AP1639 Bosch Injector Cable
- AP1640 Denso Injector Cable
- AP1642 Siemens Injector Cable
- BA1369 Flexible High Pressure Pipe

Technical Specifications

High Pressure Test Oil Transfer System	Pressure is controlled digitally between 100- and 1800 bars.
Injector Drive System	System is designed to be able to drive future injectors. It can drive electromagnetic injectors as well as piezzo injectors. Drive system is capable to inject 3 times per injection cycle.
Control System	Control computer with 10" LCD Touch Panel runs Windows XP operating system. Special control software runs TK1026 with high accuracy.
Fume Extraction	Patented filter system extracts the fume and filters it to drain. Powerful extraction capacity prevents fume from escaping out of spray chamber.

User Friendly Touch Panel



Easy to use touch panel provides a fast operation while the user interface menu's help and guide the operator at every step of the test from starting the test to printing the report. Well designed user interface prevents the user from losing time between menu pages and user errors.

Injection Delay Time Measurement Helps to Diagnose

Testing : ejbr02101z					
Vehicle : USER DEFINED					
Model : USER DEFINED					
Test Step 3 of 3 : Delivery					
measuring ...					
°C	bar	delivery	return	µSec	
45 15 ±	0 1600 10 ±	0.0 0.0 ±	0.0 0.0 ±	shot 250	
delay (µSec)	read	max	rpm		
	468	1598	3000		
	475				
<<		>>		start	cancel
				exit	

Injection delay is measured in µsec. Delay is characteristic for each model of injector and also provides information about the consistency of its operation. Even when running at very high speed, the delay can be measured with accuracy.

TK1026 injectester•CRb monitors the delay during the tests and provides information to the user about delay variances between injections.

Optional Adapters for Various Common Rail Injector Applications

- KO1426 Komatsu Denso
- KO1427 Renault Bosch
- KO1428 Iveco Bosch
- KO1429 MAN Bosch
- KO1430 Daewoo Bosch
- KO1431 Ford Bosch
- KO1432 John Deere Denso
- KO1433 Durateq Cummins Denso


Optional Accessories Recommended

- KO1382 Bosch Common Rail Injector Repair Tool Set
- KO1375 Common Rail Injector Clamp
- DE1382 Ultrasonic Cleaning Tank -4 Lt / 100w
- KO1407 Common Rail Torque Wrench Set

TK1026 injectester•CRb Dimensions

	Width : 850 mm Depth : 650 mm Height : 1750 mm Weight : 220kg		Width : 1040 mm Depth : 850 mm Height : 1830 mm Weight : 300 kg
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Required Utilities

-  220 VAC 50/60 Hz and 380 VAC 50/60 Hz (3 phase) both required.



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