

Code Reader™

First Universal Fault Code Reader



Code Reader™

Why read fault codes?

Reading Fault codes is all about tracking down faults quickly. You will be able to get a more complete picture of any system, monitor or report on an engines state of tune, condition of transmissions, etc. Add value to your customers by finding faults before they become problems. Fault codes are an under rated diagnostic tool, even on intermittent faults, codes can often point you straight to the problem. The majority of faults found, can be solved with a visual inspection and a good logical approach.

Take away the guess work

The first step of diagnosis is critical; by reading diagnostic fault codes first, you will have a direction to take your diagnostics very quickly. The CodeReader not only takes the guess work out of reading codes but allows you to structure a logical approach for repairing faults.

Using CodeReader™ for PROFIT

The CodeReader is more than a diagnostic tool, it will be a profitable business tool when incorporated into your workshop operations. The CodeReader is ideal for any sized workshop looking to improve its efficiency. This is a great opportunity for you to offer an up-sell on services. What motorist would turn down the offer of spending \$20-30 extra on a service to get a printed report on the "black box" of their pride and joy. A clear (no faults) test has to be reassuring for your customer and the opportunities for additional parts and labour sales are obvious when actual faults show up.

"I outwork all my diagnostic work"

Opportunities, opportunities, opportunities! One of the best things about the CodeReader is the speed of a code test. You should always read the fault codes first and depending on test results, a decision can be made on sending the repairs 'out'. Don't forget the machine charge!

Use your CodeReader™ every day

Ideal for daily use for the following:

- Pre purchase inspections
- Tune ups
- General services
- Diagnostic work

Who needs the CodeReader™?

The CodeReader is being used with exceptional results in the following situations:

- Franchises
- General automotive workshops and garages
- Automotive electrical specialists
- Car Yards (with workshops)
- Other specialists - Transmission Repairers
Brake and Under car repairers
Tuning experts
Mobile Mechanics

What do I do when I get a code?

It is a common misunderstanding that codes are for specialists only. The truth is that often codes will guide you directly to a component. While further testing may be required, it is often only basic checks such as, visual inspections and pin point testing that is needed to thoroughly test most components.

Does the CodeReader™ print?

Yes, not only does the CodeReader print out a test report, it will print directly from the handheld to most parallel style printers. At last a tool as progressive as you. Save the test details in memory and attach a fault code printout to your invoice. Imagine how your customer will view your image... a professional technician, at the cutting edge of technology. Impressive.

Updates

Updating the CodeReader is easy - software updates can be downloaded <http://www.rennacs.com>

Features and Benefits of CodeReader™

- 5 software modules - Electronic System Coverage
- Generic OBD-II - Plus manufacturer specific software
- Exceptional coverage of vehicles
- 3 simple connection methods - No more moulded connector plugs
- Simple and easy to use - Anyone can operate the CodeReader
- Simple internet downloads - Updateable and Upgradeable
- Saves and Prints codes - Profit Opportunities
- Time saving over manual methods

CodeReader™ test sequence



Step 1: Vehicle/System selection



Step 2: Connector location / selection



Step 3: Follow specific instructions



Step 4: Save and printout test results

OBD-II* Module

The OBD-II module is a unique product that turns a Handspring™ Handheld, into a powerful OBD-II scan tool. Use the OBD-II to retrieve vehicle engine operational live data parameters and diagnostic information such as fault codes and 'freeze frame data' from OBD-II compliant vehicles built from 1996 onwards, including GM, Ford, Chrysler, Asian and European.

Manufacturer Enhanced Upgrades for the OBD-II Scan Tool

Enhanced coverage goes above and beyond the basic OBD-II capabilities of reading diagnostic trouble codes and resetting the system. These expanded features include over 100 manufacturer-specific live data parameters and bi-directional controls for outputs such as cooling fans, idle speed, transmission solenoids and more.

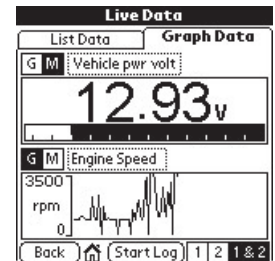
Features

- View Freeze frame data
- View Diagnostic Trouble Codes (DTC's)
- View Monitor readiness status
- View O2 sensor presence and monitor results
- Clear data
- Turn off "Check Engine" or "Service Engine Soon" lights
- Graph parameters
- Read and display up to 120 live data parameters from diagnostic connector

Standard Fault Codes

Fault Codes	
P0108	Manifold Absolute Pressure/BARO Sensor High Input
P0113	Intake Air Temperature Sensor 1 Circuit High Input
P0118	Engine Coolant Temperature Circuit High Input
P0122	Throttle/Pedal Position Sensor A Circuit Low Input

Live Data and Graphing



Vehicle compatibility

OBD-II is a US standard, which all US manufacturers must comply with starting with the 1996 model year. The OBD-II will retrieve diagnostic information from most OBD-II compliant vehicles from 1996 onwards, including GM, Ford, Chrysler, Asian and European. We are now offering even more in depth coverage with manufacturer enhanced software upgrades, starting with Ford vehicles.

What the CodeReader™ users say...

"Over the years we have invested a lot of money into manuals and meters, to manually read codes and diagnose problems. There were still large gaps in the information provided. We have searched the market for several years for a unit that would:

1. Cover a wide range of vehicle types.
2. Provide easy instructions on where to locate components.
3. Provide detailed hook up instruction.

I was told by many in the trade that the tool I wanted was still a long way off. I then discovered the Rennacs CodeReader.

In the time that I have been using the Rennacs CodeReader, it has saved me huge amounts of downtime, converting it instead to chargeable hours. With the easy on screen instructions, and print-out facility, it has given me a 'performance edge' over the competition in my area. ***The Rennacs CodeReader is not a toy or gimmick. It reads simply and accurately every time.*** It is so simple that I use it on nearly every vehicle that comes into the workshop.

My only regret is... that I hadn't found the Rennacs CodeReader sooner. "

Peter Colcord - Integrity Automotive Services -Weymouth, Auckland, New Zealand

"We have been using the CodeReader since its release. It is brilliant for fault finding.

The services of the CodeReader are sold to our clients as an upgrade to a premium service or tune.

We have recently raised the charge to \$25 for a printed out fault code report.

Thanks for a great product."

Don Mclean - Autoway Services
Hamilton, New Zealand



Optical interface



OBD-II*

Connector Interface



Three Simple connections

Advantages of the Palm OS™

Handheld platform

- Comes complete with the following applications:
 - Address / Telephone book
 - Calculator (includes conversions)
 - Date book
 - Memo pad
- Hundreds of other applications available.
- Huge 8MB memory capacity
- Quality AAA batteries provide 30-40 hours of use under normal conditions.

Code Reader™

Kit Contents

*OBD-II \ Ford Enhanced
Module Optional



Handspring Visor and associated Cradle & CD-ROM can be purchased separately or included with the kit.

COVERAGE**

Vehicle coverage range (E FI module):
Daewoo, Daihatsu, Ford, Holden (GM),
Honda, Hyundai, Isuzu, Lexus, Mazda,
Mitsubishi, Nissan, Proton, Subaru, Suzuki,
Toyota, plus OBD-II* vehicles.

** For a complete model coverage list, refer to website
<http://www.rennacs.com/coverage.htm>

Vehicle Systems Covered:
Electronic Fuel Injection (Petrol & Diesel)
Antilock Braking Systems
Automatic Transmissions
Airbag systems
OBD-II + Manufacturer Enhanced (Ford)

OBD-II* Supported Protocols *optional in some markets
The CJ-II OBD-II module supports the following protocols:
SAE J1850 VPW - GM
SAE J1850 PWM - Ford
ISO-9141-2
ISO 14230 (K/W 2000) - Most Asian and European

SPECIFICATIONS

Warranty

The CodeReader comes with a full 12 month warranty against defects in material and workmanship.

Batteries

Power consumption (nominal)

- 0.3 mA off
- 35 mA in use

Quality* AAA batteries provide 30-40 hours of constant use under normal conditions. (Approx 2-3 months use)

*Source Energizer E2 1150mAh

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