

# Owner's Manual & Safety Instructions

**Save This Manual** Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.



**KC601**

## Heavy Duty Code Reader



Visit our website at: <http://www.kzyee.com>  
Email our technical support at: [sales@kzyee.com](mailto:sales@kzyee.com)

V1.0

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call +86-774-5818335 as soon as possible.

### **⚠ WARNING**

Read this material before using this product. Failure to do so can result in serious injury.  
**SAVE THIS MANUAL.**

Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

### **KC601 Heavy Duty Code Reader Main Unit Maintenance and Notes**

- \* Do not allow unauthorized demolition.
- \* Avoid violent collision.
- \* Avoid closing to magnetic field.
- \* Do not keep in hot environment for a long time.
- \* Do not keep in cold environment for a long time.
- \* Avoid collision of screen and keep the keys clean.
- \* Clean the machine with soft clean cloth and neutral detergent, instead of water or chemical solvents.

### **Automobile Inspection Notes**

- \* Should operate the machine according to safety rules in auto repair industry. Special attentions should be paid in order to prevent the machine from being affected or damaged because of the environmental factors such as the surrounding pH, poison gas, high pressure, heavy objects, etc.
- \* Vehicle batter fluid contains sulfuric acid, while sulfuric acid is corrosive to the skin. Therefore, in operation you should protect your skin from directly contacting with battery fluid. Particularly, make sure that they won't splash into your eyes. You should also avoid closing to fire.
- \* Engine exhaust emissions contains a variety of toxic compounds, so you should protect yourself from inhaling them. During operating, the vehicle should be parked in a well-ventilated place.
- \* The temperature of the working engine is high, so you should protect yourself from contacting with high temperature components such as water tank and exhaust pipes.
- \* Before starting the engine, you should hold the hand brake and have gear lever placed in neutral (Guide transmission) or P gear position(automatic transmission), so as to avoid the vehicle rushing out and result in accidents when you start the engine.
- \* Before repairing the vehicles, you should hold parking brake well, shift transmission gear into the neutral position or P gear, and lower the glass doors and windows on the driver's seat side.
- \* If the engine can be started, you should firstly warm up it to a normal temperature (water temperature is at about 80°C, and close the auxiliary electrical appliances (such as air conditioning, lighting, loudspeaker, etc.).
- \* Find the diagnostic socket of this car, and check, confirm that whether the wires of the diagnostic socket are in good condition, and then connect the main unit for diagnosis. Otherwise, do not test, and avoid damage to the main unit. If necessary, you can use a multimeter to measure the voltage of diagnostic socket.

### **Instrument Use Notes**

- \* When you use the KC601 for testing, you must handle it with care and keep it away from heat source and electromagnetic field, so as to avoid interference with the main unit.
- \* When electrical components are energized, you cannot disconnect the circuit to prevent the self-inductance, mutual inductance from attacking sensors and automotive ECU.
- \* When electrical equipment works normally, you should avoid putting magnetic

objects close to the vehicle control unit, otherwise the vehicle control unit may be damaged.

\* Vehicle control unit or electrical components dismounting should be done only 1 minute after the ignition switch is turned off.

---

**Table of Contents**

---

1.1 Introduction to the Heavy Duty Code Reader .....3

1.2 Introduction to Its Appearance and Basic Function.....3

1.3 Product Parameters.....4

1.4 Operation Methods.....4

1.5 Product Configuration List.....8

1.6 Warranty .....9




### 1.1 Introduction of Code Reader

KC601 Heavy duty code readers is the latest portable vehicle code reader launched by KZYEE Company. With it, users can fast and efficiently read out DTC in automobile electric control system, diagnose fault position and find out fault cause. KC601 heavy duty code reader is applicable in all auto repairing factories. It is portable for car owners to diagnose DTC in automobile electric control system anytime and anywhere. LED signal lights make easy and practical operation. KC601 heavy duty code reader applies to vehicles equipped with standard OBDII diagnostic socket with read and erase fault code and read live data functions.

### 1.2 Product Introduction and Functions

Adopting 2.8 inch and 320\*240 LED display to meet the operation habit of each individual user, the well-designed appearance, menu and functions of products support all-in-one function of OBD/EOBD vehicle, multi-language, and LED-guided operations. Easy operation, high practicality.

This product is also applicable to vehicles with 8V~30V working voltage. With good working stability, this can fully meet customers' different demands of diagnosis.

1.  Normal Diagnosis Indicator: The indicator lights up in communication diagnosis.
2.  Failure Diagnosis: The indicator lights up when communication diagnosis fails.
3.  Voltage Indicator: The indicator lights up when the tool is connected to OBDII diagnostic sockets of vehicle.
4. Diagnosing communication cable with direct connection to OBDII diagnostic sockets of vehicle.
5. Up, Down, Left and Right buttons.
6. OK button: For confirmation.
7. USB Interface: Backup interface for connection;
8. ESC button: For cancel and back.
9. ? Help button: View detailed information, if available.

### Features

- \* Support heavy duty truck that is compatible with standard protocols (J1939 and J1708).
- \* Read DTC (Diagnose fault code).
- \* Support ECU like CUMMINS, VOLVO, CATERPILLAR, BENDIX, DETROIT, BENZ, etc.
- \* Connection to OBD16 via diesel 6PIN and diesel 9PIN.

### Diagnostic Protocols

- \* SAE J1939
- \* SAE J1708/J1587

### Functions

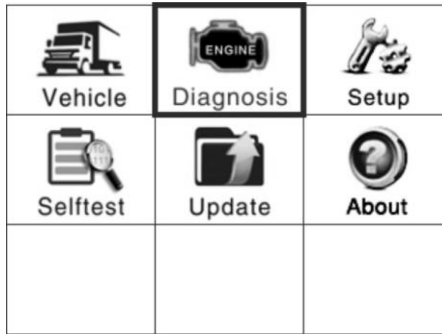
- \* Engine
- \* Transmission
- \* Body Controller
- \* Chassis Control
- \* Cruise Control
- \* ABS
- \* Instrument Cluster
- \* Gateway
- \* ...

### 1.3 Product Parameters

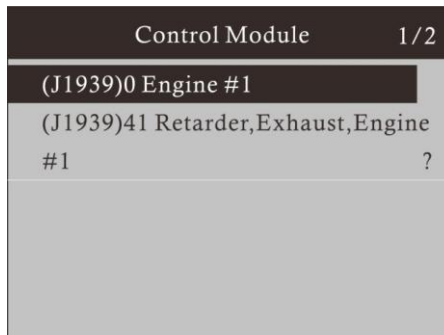
Display	2.8 inch 320*240 LCD
Input Voltage	8.0-30.0V power provided via vehicle battery
Working Current	Typical value <100mA
Vehicle Cables	OBD-II/ 9-PIN /6-PIN
Operating Temperature	0°C-50°C
Storage Temperature	-20°C-70°C
Relative Humidity	60%
Dimension	198mm*107mm*36mm
Unit Weight	0.3 Kg

### 1.4 Operating Methods

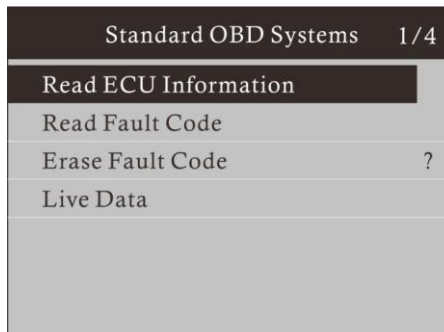
1. When Engine MIL of vehicle with standard OBDII lights up, driver must stop the vehicle and hold the handbrake, turn on the key switch and then insert the KC601 heavy duty code reader into 16pin diagnostic socket of the vehicle. Standard OBDII diagnostic socket is generally set below the steering wheel at the driver side.
2. After being connected to diagnostic socket, the KC601 will start automatically and display the logo of KZYEE. A few seconds later, you will enter diagnosis interface and choose the functions. Choose " Diagnosis" if users want to diagnose and enter by clicking the key "OK".



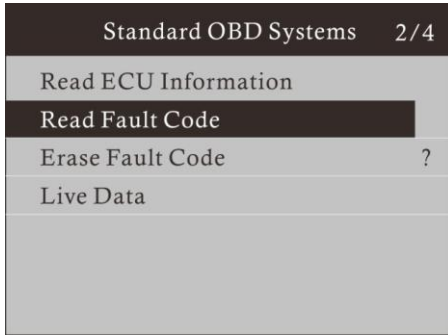
3. Control Module: Now you can choose the control module that you need to test.



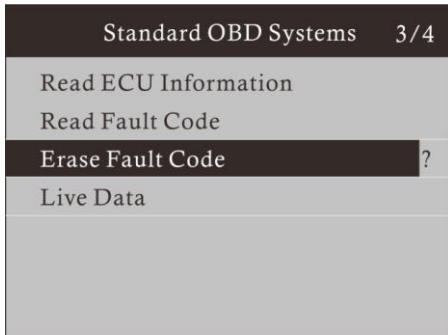
4. After enter the system, users can read ECU information, read fault code, erase fault code and live data. If it indicates “communication failure” during the diagnosis, please check whether the key switch is turned on, selected diagnostic protocol is right and vehicle diagnostic socket has signal voltage, etc.



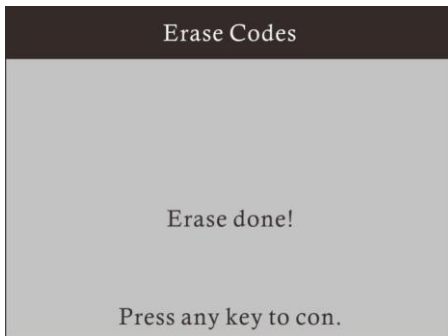
5. Read Fault Code, e.g.:



6. Erase Fault Code, e.g.:



7. Erase Codes succeeds.:



8. Live Data: Read the status of all current data stream timely.

Standard OBD Systems	4/4
Read ECU Information	
Read Fault Code	
Erase Fault Code	?
Live Data	

9. Live data is displayed as follows, and users can browse by clicking up and down buttons.

Live Data	1
Electronic Brake Controller 1	
Engine Temperature 2	
Fan Drive #1	
High Resolution Vehicle Distance	
Turbocharger	
Electronic Engine Controller 3	
Vehicle Distance	

10. Update Software:

This function allows you to update the Coder Reader software through a computer.

- (1) Go to [www.kzyee.com](http://www.kzyee.com).
- (2) Register and login to download the update software.
- (3) Connect the Code Reader to the computer with the supplied USB cable.
- (4) Select the Update from the main menu, then press "Update".
- (5) Follow instructions on the Code Reader and computer.



## Heavy Duty Code Reader

---

11. Product system information: contains information like product serial number.



12. Serial Number, Burn Data, Software Version, Hardware Version, LIB Version, etc.



### 1.5 Product Configuration List

Part	Description	Qty
1	Heavy Duty Code Reader	1
2	Outer Package	1
3	USB Cable	1
4	OBDII Cable	1
5	OBDII to Diesel-6 and Diesel-9 Cable	1
6	Storage Bag	1
7	User's Manual	1

## Limited 90 Day Warranty

KZYEE makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

