

MULTIBRAND DIAGNOSIS FOR INDUSTRIAL VEHICLES

USER MANUAL Multi-Diag







A 20-year partner to automotive manufacturers

Founded just over 20 years ago, ACTIA has since risen to international leader status in the automotive electronic diagnostics market. As a partner to major automotive manufacturers, ACTIA designs and produces electronic systems aimed at busses and coaches, trucks and special vehicles like construction and farming machinery. ACTIA's solutions involve every aspect of automotive electronic architecture from instrumentation, multiplexing, power management, fleet management systems, tachographs and remote processing to comfort and safety systems, multimedia and video surveillance. These solutions testify to ACTIA's know-how in these rugged, extremely demanding environments.



Inventing diagnostics

Harnessing its extensive expertise in electronic automotive architecture, ACTIA invented automotive diagnostics in and has been supporting the after-sales network 1985 and production factory equipment strategies of major manufacturers ever since. This leadership took on a whole new dimension with the 2003 launch of the Multi-Diag® range of multimake tools already adopted by many maintenance and repair professionals in Europe. The 2003 takeover of the brand MULLER BEM - a reference in garage and MOT equipment - has since enabled the ACTIA group to offer workshops a global garage equipment solution including wheel testing, antipollution, test bench, automotive lifts, electronic maintenance and diagnostics for both light and heavy vehicles. With Multi-Diag® Trucks, ACTIA continues to provide ongoing support to the repair industry.

A worldwide group in your neighbourhood

Because it is a concentrate of ACTIA's onboard systems, electronics diagnostics and garage equipment expertise, Multi-Diag® Trucks expresses all the power of an international group that has always maintained its pioneering spirit. Supported by an R&D investment of over 15% annual turnover, innovation is more than corporate culture, it is the daily driving force of every ACTIA group employee. Today, ACTIA is established on all five continents thanks to its subsidiaries and network of expert dealers. This worldwide deployment affords each of our customers a level of service quality to match the quality of our products, all manufactured in the group's industrial facilities. A certified quality environment, total control over the design and manufacturing process and state of the art production technology make our factories landmarks in the fields of PCB production and assembly of complex systems for the automotive, heavy vehicle and aeronautics sectors.

Innovation, quality and service: Commitments that are delivered with every ACTIA product





DIAGNOSIS KIT











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1 GENERAL DESCRIPTION

1.1 Introduction

Multi-Diag Trucks is a multibrand diagnosis device appropriated to be used to check electronically controlled systems in industrial vehicles.

Multi-Diag Trucks is an universal device and can be configured in any language.

Multi-Diag Trucks can be updated in any time and in any moment, in an easy way through internet.

1.2 General characteristics



Multi-Diag Trucks communication interface

- Double integrated Microprocessor that supports all the device functions.
- Complete interface set the support all the existed communication data busses ISO, RS, CAN, SAE...
- Bluetooth interface for wireless functions.
- Connection to PC through USB / Bluetooth port.







1.2.1 Communication indicators lights

The communication interface has some indicator lights in one side; below is description of all the functions:



-Power: It is turned on when the device received external power supply.

-ECU Rx / ECU Tx: Reception/Transmission ECU data.

-Error: It is turned on when the device is not working properly.

-PC Rx / PC Tx: Reception/Transmission PC data.

1.2.2 Link device power supply.

To connect with any vehicle electronic device, Multi-Diag Trucks must have power supply. The device power supply is made through the diagnosis connection cable used in each case. If the Multi-Diag Trucks does not receive the appropriate power supply, be sure the connection is correctly made and check the power supply lines. In case to use multipins, do not forget to give power supply to the Multi-DiagTrucks through the lighter.

2 INSTALLATION

2.1 <u>Software installation</u>

Before starting the installation process, all the programs must be closed. Then insert installation CD-ROM provided with your tool.



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🖓 MULTI-DI@G Setup	
Welcome Welcome to the installer for MULTI-DI@G C08-T3.1.	
It is strongly recommended that you exit all Windows programs before this installation.	continuing with
If you have any other programs running, please click Cancel and clos before restarting this installer.	se those programs
Otherwise, click Next to continue.	
WARNING: This program is protected by copyright law and internation Unauthorized reproduction or distribution of this program may result in criminal penalties, and will be prosecuted to the maximum extent poss	nal treaties. severe civil and sible under law.
Next >	Cancel

1. Select the language.

MULTI-DI@G Setup		
elect Option Select an option below ar	nd click Next to continue.	
Please select one of the f	ollowing options:	
English		
French Spanish		
		A
	< Back N	ext Cancel
		NC -







2. Select the installation folder where the Multi-Diag Trucks program will be installed. Click on next in order to continue with the installation process.

😽 MULTI-DI@G Setup	
Installation Folder Select an installation folder and click	
The software will be installed in the f either type in a new path, or click Ch	older listed below. To install to a different folder, nange to browse for an existing folder.
Install MULTI-DI@G to:	
C:\Program Files\MULTI-DI@G	Change
Space required on drive:	469 MB
Space available on selected drive:	38617 MB
	< Back Nexto Cancel

🖗 MULTI-DI@G Setup	×
Shortcut Folder Select a shortcut folder and click Next to continue.	
Setup will add shortcut icons to the folder indicated below. If you don't default folder, you can either type a new name, or select an existing fol	want to use the der from the list.
Shortcut Folder:	
MULTI-DI@G	~
< Back Next >	Cancel





3. The Multi-Diag Trucks program starts in this step and is done automatically. If it is the first time that this application is running, a window will appear where the license must be activated. Press the button "Get Device"

👫 Manager Lice	nses				E	
To obtain a license f please use this progr	or you dia am	gnosis sofi	tware,		Mult	I-DIQG
MUL	TIDIAG da	ata				
		GET D	EVICE			
Р	N M	IA006964				
F	W C N P	08-T3.1 00165642	5			
	GE	NERATE	PASSWO	RD		
Password	227EEI	D6DCC81	289B83I	E86F5BI	FDF37E	
Please, contact your distributor to obtaint the license password						
AAAAAA AAAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA
		VA	LID			
PN:MA006964	FW:C08-T	3.1 5	N:P00165	6425 V.	1.0.5	

Next, clicks on ACCEPT and then on "GENERATE PASSWORD". In the window "Manager Licenses" a password will be produced. This password must be indicated to ACTIA in order to obtain the license password.

Be careful, during the time who you are waiting the license password from ACTIA, You mustn't turn off the computer! If you don't respect this procedure when you will turn on the computer, the password will change and you will be obligated to ask a new license password to ACTIA.

Once this license password is obtained, it should be introduced in the corresponding space. Click on "VALID", the Multi-Diag Trucks program will be installed in the computer.



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Once the Multi-Diag Trucks application is updated, a screen will appear. This window allows update the Communication interface device. Please read careful the instructions showed in the assistance.

Julti-Di@g
:. The process will G by USB and
QUIT

The way to update any Multi-Diag Trucks package is very easy if the steps showed in the manager are followed. Next, the communication interface device update process is described. This is an automatic process.

2.2 Program deleting process

First of all, the current program memory is deleted. This supposes the update process interruption and the functionality lost of the device. This means that the update process must be completed once it starts. In case of an interruption, please restart again the process through the program "Manager Update".







2.3 Files download.

Three program files are uploaded automatically. Down it is shown the file 1 update process. The process last some minutes and the process is visualized through a blue bar.

😂 VCI Update	
This software will allow to update your diagnosis device firmware	
14% completed file	1
	V. 1.0.4

2.4 Installation finalization

When the 3 files have been updated, the following window appears.



2.5 Update process end.

When the update process has finished, the "Manager Update" notice if the process has been satisfactory. Click on QUIT in order to finish complete the update process.

😂 VCI Update	
This software will allow to update yo diagnosis device firmware	
The diagnosis device update proce	s is done satisfactorily.
 	QUIT





5. To execute the Multi-Diag Trucks program, the following window will appear:









2.6 BLUETOOTH CONFIGURATION

In order to use the Bluetooth wireless connection with the Multi-Diag Trucks, it is necessary to make a registration of the Communication interface configured in your operating system. To do that you have to follow the next steps:

Step 1: Have a Bluetooth device.

Your personal computer should have a Bluetooth wireless device.

If you don't have it, you have to use an external device connected in the USB port. When you insert the external Bluetooth device in the USB port of the PC, this will be recognized automatically by the operating system.

Step 2: Connect the communication interface

Use the USB cable provided with the kit

Step 3: Make a registration of the external device.

Once the Bluetooth device has been recognized by the operating system of the PC, you can add the external device "JalTest", necessary to execute the diagnosis software. To do this:

Step 2.1: Searching the external device.

Go to 'Control Panel' in the start menu and select 'Bluetooth devices'.







• Click the Add button to start with the addition of the external device required.

Bluetooth Devices
Devices Options COM Ports Hardware
Add Remove Properties
OK Cancel Apply

• The screen 'Assistance to add Bluetooth devices' will appear. Choose the option 'my device is set up and ready to be found' and then click the 'next' button.







• The program starts to search Bluetooth devices.

Add Bluetooth Device Wizard	×
Select the Bluetooth device that you want to add.	×
<i>(</i>	
 If you don't see the device that you want to add, make sure that it is turned on. Follow the setup instructions that came with the device, and then click Search Again. 	Again
< Back Next >	Cancel

Once you have finished the search, a list of the external devices found will appear.

Step 2.2: Registration of the external device.

• Select from the list the device called "JalTest" and then click the 'Next' button.

• You should write the access password that will be integrated with the external device "JalTest". This step is necessary for the device's registration in the operating system. To do that, select the option 'let me choose my own passkey' and write '1234'. Click the 'Next' button and the system will start with the installation of the device selected.







Add Bluetooth Device Wizard					
Do you need a passkey to add your device?		×			
To answer this question, refer to the "Bluetooth" section of the documentation that came with your device. If the documentation specifies a passkey, use that one.					
O Choose a passkey for me					
\bigcirc Use the passkey found in the documentation:					
 Let me choose my own passkey: 	1234				
O Don't use a passkey					
You should always use a <u>passkey</u> , unless your device does not support one. We recommend using a passkey that is 8 to 16 digits long. The longer the passkey, the more secure it will be.					
< Back Next > Cancel					

• Click on 'Finish' and the device will be ready to use.

Add Bluetooth Device Wizard		
8	Completing the Add Bluetooth Device Wizard	
	The Bluetooth device was successfully connected to your computer. Your computer and the device can communicate whenever they are near each other.	
	These are the COM (serial) ports assigned to your device.	
	Outgoing COM port: COM7	
	Incoming COM port: COM8	
	Learn more about Bluetooth COM ports.	
	To close this wizard, click Finish.	
	K Back Finish Cancel	

NOTE: It is strictly forbidden to have software of Bluetooth communication protocols installed in your PC, like: BlueSoleil, WidComm, etc. Otherwise the communication between the communication interface and the PC will not work properly.

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2.7 MAC ADDRESS

First time Multi-Diag Trucks program runs, be sure the MAC address is configured on your Bluetooth device. To do it, click the "**Configuration**" button in the "VCI diagnostic device" of the top menu.



A new screen will appear where you can see the configuration of your Multi-Diag Trucks. Be sure that the MAC address is not 00-00-00-00.





MULTI-DI@G		<u>-0×</u>
Main Diagnosis Technical information	Multi-Di@g® Trucks	
	Communication Mode Selected Communication: Bluetooth USB Bluetooth	6
	Interface MAC Address 00:07:80:83:e6:2c Configure	
	VEHICLES	
Disconnect		

If your MAC address is 00-00-00-00-00, you must follow the next instructions:

• In the Control Panel, select "Bluetooth devices".







Bluetooth Devices	×
Devices Options COM Ports Hardware	
All other devices	
JALTEST Passkey enabled	
Add Remove Properties	
OK Cancel Apply	5

• Select the JalTest hardware and go to 'properties' as it is shown in the following picture. The MAC address should be entered in the "Configuration" menu at the Multi-Diag Trucks software.

JALTEST Propert	ies	? 🗙
General Services		
8	JALTEST	
Type of device:	Unclassified Device	
Address: 🤇	00:07:80:80:da:08	
Last connected:	Saturday, June 02, 2007 at 12:09:36 PM	
Connection:	Passkey enabled	
	OK Cancel Ar	oply

• To finish, be sure that MAC address is correctly configured in the Multi-Diag Trucks.





Multi-Di@G	101 (Disenseis deuise) - Cliente management - Canfigure	_ _ _ _ _
	Multi-Di@g® Truci	<s< th=""></s<>
	Communication Mode	
	Selected Communication: Bluetooth	
	USB Bluetooth	
	Interface MAC Address	
	00:07:80:83:e6:2c Configure	
		of
	VEHICLES	
Disconnect		2

Before make a connection to a vehicle, select the option "PC Diagnosis" in the main menu of the Multi-Diag Trucks tool.







3 UTILISATION

3.1 <u>"Graphical Interface" general Description</u>

Multi-Diag Trucks has a developed graphical Interface to carry out, in a guided and easy way, every function available for commercial vehicle.



3.1.1 Selection path

This bar shows the connection that we have selected on Multi-Diag Trucks .

- Type of vehicle
- Model
- Type of system
- Manufacturer *
- System *

TRUCK >> MERCEDES BENZ >> Actros II (WDB930.0 - 934.3) >> FR, Engine-vehicle regulation





3.1.2 Vehicle brand selection screen

Once the kind of vehicle is selected a brand selection screen appears. Here the grand must be selected. In case to choose "TRUCK" the following screen will appear.



3.1.3 System selection

After select the vehicle brand some screen will appear until the right system is selected. First of all the brand family type is selected. Once the family is chosen the model should be chosen. Then appear the vehicles with electronic control which whom Multi-Diag Trucks can establish communication. Before a selection by system type can be done





MULTI-DI@G Main Diagnosis Technical information VCI (Diagnosis device) Clients manage	gement Configure	
MODELS' RANGE	SYSTEM	
Sort by ALL	Sort by ALL	
MODEL	TYPE OF SYSTEM	
Actros (WDB950.0 - 954.3) Actros II (WDB930.0 - 934.3) Atego II (9BM958.0) Atego WDB970-976 Atego WDB970-976 Atego WDB970-976 OBD Atego WDF375.1 OBD Axor - R WDF375.3 Axor - C 9BM958.4 Axor - C WDB940 - 944 Axor - C WDF940 - 944 Axor - C WDF940 - 944 Axor - C WDF95.5 - 954.6 Axor 9BM958.2 Axor IMB375.3 Axor WDB940 - 944 Econic WDB957.6 - 957.7 (Circular) Econic WDB957.6 - 957.7 (OBD) LK MK SK U 20 UGN	ART, Tempomat, distance regulator BS, Braking system BTS, Battery disconnect-switch EDW, Antitheft alarm system EHZ, Electro-hydraulic auxiliary steering wheel FLA, Inlet air pre-heater system FM, Front module FR, Engine-vehicle regulation GM, Basic module GS, Gear control HM, Rear module HPS, Hydro-pneumatic module HZR, Heating regulation INS, Instrumentation KOM, Communication module MR, Engine management MSF, Modular switches system PSM, Set parameters special module RDK, Wheel pressure control RS, Retarder management SPS, Retention system TCO, Tachograph TMB, Passenger door module	
2 C D L D L C L		
Disconnect 😨 💽 🚼 2.08.4.1.1		

3.1.4 Connection types

Multi-Diag Trucks program will give the instructions, location of diagnosis connector and a list of cables which must be used to connect when it is selected the direct plug, multipins or multiplexer in the type of connection. The connection information (connector reference, connection instructions) appears in the bottom left side. Also, picture about the connection and location, details and pins configuration appears in this screen.







3.1.5 Explorer bar



Back: Go to previous screen.



Connection: Shows information about the connection.



Connect: Establish the connection with the selected system.



Disconnect: Finalize the current connection.







Valid: Accept the selection you made in the current screen and open a new one.



Technical documentation: Engine Technical data

<mark>тта</mark> С., Technical documentation: service intervals data

Technical documentation: ECU data

Technical documentation: electrical schematics



Technical documentation: systems components



Exit: Close the program.



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3.2 Password

Multi-Diag Trucks can be operated inputting a password in the following window.

MULTI-DI@G				_ 🗆 ×
Main Diagnosis Technical inform	nation VCI (Diagnosis device) Cli	lients manag	ement Configure	
	General information			
мо	IDELS User identification		SYSTEM	
Sort by ALL	Communication	-	Sort by ALL	-
	Activate expert mode			
-	MUI Unlock		ITPE UF STSTEM	
Actros (WDB950.0 - 954.3)		▲	ABS, Anti-lock Braking System	
Actros II (WDB930.0 - 934.3)			ART, Tempomat, distance regulator	
Atego II (9BM958.0)			BS, Braking system	
Atego NMB375.1			EDW, Antitheft alarm system	
Atego WDB950.5 - 954.6			FFB, Radio communication control	
Atego WDB970-976			FLA, Inlet air pre-heater system	
Atego WDB970-976 OBD			FR, Engine-vehicle regulation	
Atego WDF375.1 OBD			GS, Gear control	
Axor -R WDF375.3			HZR, Heating regulation	
Axor -C 9BM958.4			INS, Instrumentation	
Axor -C WDB940 - 944			MR, Engine management	
Axor -C WDF940 - 944			NR, Level regulation	
Axor -CI WDF375.4			PSM, Set parameters special module	
Axor -R WDB950.5 - 954.6			RS, Retarder management	
Axor 9BM958.2			SIL, Driver seat regulation	
Axor NMB375.3			SIN, Central seat regulation	
Axor WDB940 - 944			SIR, Passenger seat regulation	
Econic WDB957.6 - 957.7 (Circ	cular)		SRS, Retention system	
Econic WDB957.6 - 957.7 (OBD	D)		TCO, Tachograph	
LK			WS, Maintenance system	
MK			ZHE, Additional heater	
SK			ZV, Central lock system	
0 20				1
UGN		-		
TRUCK >> MERCEDES BENZ >>	> ACTIOS (WDB950.0 - 954.3) >:	> MR, Engli	ne management	
9 🤇 🍎	.	ß		
Disconnect 💡 🕻	2.08.4.	.1.1		

PIN Expert mode: When the Multi-Diag Trucks is working with the expert mode PIN, its functions and specific system menus functionalities increase. This functions is usually used when copy and pasta parameters is needed, in example, in the trailer EBS system. Also a clutch pedal programming can be done when is an hydrodynamic gearbox (HPS) and to change the fan clutch type.

Unlock code: when the PIN number is not valid the system tell to the user the number of tries left, that normally start is 3. The number of tries left is stored in a non-volatile memory, which is why to turn off the device does not restart the counter. When the counter is in 0, this is after try 3 times without success, the Multi-Diag Trucks s locked and this turn to a special mode which appear every time the user wants to enter on the program. This behaviour holds until the unlock code is inputted.





MULTI-DI@G Main Diagnosis Technical informa	ation VCI (Diagnosis device) Clients managi	ement Configure
мог	DELS' RANGE	SYSTEM
Sort by ALL		Sort by ALL
	MODEL	TYPE OF SYSTEM
Actros (WDB950.0 - 954.3) Actros II (WDB930.0 - 934.3) Atego II (9BM958.0)	📩 🏹 Imput code	ABS, Anti-lock Braking System
Atego NJMB375.1 Atego WDB950.5 - 954.6 Atego WDB970-976 Atego WDB970-976 OBD Atego WDF375.1 OBD Axego - R WDF375.3	Select the option to put the part PIN Expert Mode	© Unlock code
Axor -C 9BM958.4 Axor -C WDB940 - 944 Axor -C WDF940 - 944 Axor -CI WDF375.4 Axor -R WDB950.5 - 954.6 Axor 9BM958.2	PIN Expert Mode (4-digit-password)	
Axor HMB375.3 Axor WDB940 - 944 Econic WDB957.6 - 957.7 (Circ Econic WDB957.6 - 957.7 (OBC LK		
SK U 20 UGN	-	ZV, Central lock system
TRUCK >> MERCEDES BENZ >> Actros (WDB950.0 - 954.3) >> MR, Engine management Image: Constraint of the state o		
Disconnect 🌹 🌑	2.08.4.1.1	

In order to obtain more information about the Multi-Diag Trucks behaviour with these codes, please contact with a Multi-Diag Trucks distributor. All these pins will be provided by ACTIA.







3.3 Connection

Once you click on 'Connect' button, there will appear a screen with the Communication interface information (Part number, serial number and software version). Wait a few second and click valid.



3.3.1 Diagnosis functionalities description

DIAGNOSIS	This option allows make a diagnosis of the system selected, allows read and erased the errors on the memory of the ECU. Once you click on 'DIAGNOSIS' the program shows the errors stored in memory and its condition: PRESENT or NOT PRESENT. ECU has no error stored in memory
MEASURE VALUES	This option shows all kind of values that it can read, like pressures, temperatures, wearing, signals, speeds, configurations, distances, voltages, current, etc.
ECU DATA	Shows the data of the Electronic Control Unit who is under analysis.
COMPONENT ACTUATION	This menu allows actuate some components inside the selected system and check that its functionality y correct





BINARY STATES	Screen where you can see the binary states.
PARAMETERS	Management of the process of read, copy, change and paste parameters between the unit control and the Multi-Diag Trucks diagnosis tool.
CALIBRATION	In this option you can see the calibration data from the high sensors, as well as make a new calibration in the vehicle.
SERVICE	Management of the maintenance available in the system selected.
MANUFACTURER DATA	Shows the manufacturer data, model, chassis number, etc.
SYSTEM CHECK	In this option we can make different kind of test in order to check the state of the system.
INITIAL VALUES RESET	Shows the initial values of cylinder, clutch, gamma, etc.

4 IMPORTANT NOTICE

Read carefully the instructions in this page to use the Multi-Diag Trucks. Do not allow unskilled users to work with your unit.

4.1 Storage

For the correct use of the Multi-Diag Trucks, follow the recommendations:

- Always store the Multi-Diag Trucks unit in the Diagnosis Kit suitcase.
- Keep the diagnosis kit in a dry place away from heat sources and sun rays.
- Keep the Multi-Diag Trucks device away from water and any other liquid. The direct contact with them can produce irreversible damage to the equipment.
- Prevent blows and bumps to the Multi-DiagTrucks unit



4.2 Communication Interface

If there are 24 V DC (Direct current) in the communication lines, the internal electronic of Multi-Diag Trucks can be affected.

Do not connect Multi-Diag Trucks with the vehicle turned on. In case that it is necessary to make a test with the vehicle on, connect Multi-DiagTrucks before and then turn on the vehicle. Do not connect or disconnect the communication interface with the vehicle on.

In the case that the instructions are not followed, it is possible that this causes a break in the internal protection circuit of the communication interface, and the tool will not work properly.

4.3 Environment

- Use the tablet at an ambient temperature of between 0 °C and 45 °C.
- Protect the tablet from prolonged exposure to sunlight
- Do not place the tablet near sources of inflammable liquids to prevent any risk of explosion and fire
- Do not use the tablet in the rain or on damp surfaces to prevent any risk of electrocution and of damaging the tablet
- Do not splash the tablet with liquids (water, acids, oil, cleaning fluids...)
- Do not leave the material near heat sources or hot materials.

4.4 Handling

- Do not drop the tablet
- Do not use peripherals other than ones recommended by Actia
- Avoid using the tablet for very long periods (several hours) since some parts of the tablet may become very hot (I/O connectors).
- Handle the tablet by plastic parts to avoid burns.
- Do not allow the cables to run over the corners of tables, workbenches or shelves.
- The supplied stylus only must be used to prevent damages on the touch-sensitive screen.
- Do not force the CD-ROM drive open (class 1 laser product), this could physically damage it.
- Do not pull on the main cable when unplugging the tablet from the power supply. Grip the connector when performing this operation
- On road tests, secure the tablet using the vehicle seat belts. The road tests shall not be performed by the driver. Only the passenger can carry out the tests.
- Do not place the tablet on an airbag stowage location. The airbag may be triggered.

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4.5 Maintenance if the tablet is damaged

- Do not use the tablet.
- Contact your retailer's after sales service
- If the screen's glass is broken, do not inhale, touch or ingest liquid crystals.
- Warning to glass splinters.

4.6 Cleaning

• For external cleaning of the tablet, use a soft cloth impregnated with a suitable cleaning agent (cleaning agents for computers screens).

4.7 Batteries

- Do not remove or change the battery by yourself.
- Call maintenance center.

