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SUMMARY

Review of the Manual

This document is **review 03** of the **TMD MK3 EDR technical manual**.

INTRODUCTION

Dear Customer,

We would like to thank you for choosing a TEXA product for your workshop.

We are certain that you will get the greatest satisfaction from it and receive a great deal of help in your work.

Please read through the instructions in this manual carefully and keep it for future reference.

Reading and understanding the following manual will help you to avoid damage or personal injury caused by improper use of the product.

TEXA S.p.A reserves the right to make any changes deemed necessary to improve the manual for any technical or marketing requirement; the company may do so at any time without prior notice.

This product is intended to be used exclusively by technicians specialised in the Automotive industry. Reading and understanding the information in this manual cannot replace adequate specialised training in this field.

The sole purpose of the manual is to illustrate the functioning of the product sold. It is not intended to offer technical training of any kind and technicians will therefore carry out any interventions under their own responsibility and will be accountable for any damage or personal injury caused by negligence, carelessness, or inexperience, regardless of the fact that a TEXA S.p.A. tool has been used following the information contained in this manual.

Any additions to this manual, useful in describing the new versions of the program and the new functions associated to it, may be sent to you through our TEXA technical bulletin service.

This manual is to be considered an essential part of the product to which it refers. If it is resold, the original buyer is therefore required to forward the manual to the new owner.

Reproduction, partial or whole, of this manual in any form without written authorisation by the manufacturer is strictly forbidden.

The original manual was written in Italian, every other language is a translation of the original manual.

1 ABOUT THE MANUAL

This manual is divided into the following chapters:

1. **Legend of the symbols used in the manual:** *it gives indications regarding the symbols used in this document.*
2. **General safety rules:** *they give important indications for the safety of the user during workshop operations.*
3. **Specific safety rules:** *they give important indications for the safety of the user, the vehicle and of the device this document refers to.*
4. **Operation of the radio devices:** *it gives important information regarding the radio devices that are equipped on the device this document refers to.*
5. **Regulatory information:** *it gives indications regarding the laws that are applied to the device this document refers to.*
6. **TMD MK3 EDR:** *it gives a brief overview of the device this document refers to.*
7. **Description:** *it describes the main features of the device this document refers to.*
8. **Installation:** *it explains how to install the device this document refers to.*
9. **Configuration:** *it explains how to configure the device this document refers to.*
10. **Maintenance:** *it explains how to take care of the device this document refers to.*
11. **Devices in case of a long unused period***: it explains what to do if the device this document refers to is not used for an extended period of time.*
12. **Blink codes:** *it explains how to read the flashing of the LEDs of the device this document refers to.*
13. **Technical features:** *it gives the main technical features of the device this document refers to.*
14. **Environmental information:** *it gives the information related to the disposal of the device this document refers to.*
15. **Legal notices** *they give information regarding the manufacturer and the warranty that covers the device this document refers to.*

2 LEGEND OF THE SYMBOLS USED

The symbols used in the manual are described in this chapter.

	Asphyxiation Risk
	Explosion Risk
	High Voltage Hazard
	Fire / Burn risk
	Poisoning Hazard
	Corrosive Substances Risk
	Noise Hazard
	Moving Parts Risk
	Crushing Risk
	General Risk
	Important information

3 GENERAL SAFETY REGULATIONS

3.1 Glossary

- **Operator:** *qualified individual, in charge of using the device/tool.*
- **Machine/device/tool:** *the product purchased.*
- **Workplace:** *the place where the operator must carry out her/his work.*

3.2 Operator Safety Regulations

3.2.1 General Safety Regulations

- *The operator must be completely clear-headed and sober when using the device; taking drugs or alcohol before or when operating the device is strictly forbidden.*
- *The operator must not smoke during device operation.*
- *The operator must carefully read all the information and instructions in the technical documents provided with the device.*
- *The operator must follow all the instructions provided in the technical documents.*
- *The operator must always watch over the device during the various operating phases.*
- *The operator must make sure she/he is working in environment which is suitable for the operations that must be carried out.*
- *The operator must report any faults or potentially hazardous situation in connection with the workplace or the device.*
- *The operator must carefully follow the safety regulations required for the workplace in which she/he is working and required by the operations she/he has been asked to carry out.*

3.2.2 Risk of Asphyxiation

	Exhaust gas from internal combustion engines, whether they may be petrol or diesel, are hazardous to your health and can cause serious harm to your body.

Safety Precautions:

- *The workplace must be equipped with an adeguate ventilation and air extraction system and must be in compliance with standards according to current national laws.*
- *Always activate the air extraction system when working in closed environments.*

3.2.3 Risk of Impact and Crushing

	The vehicles which are undergoing A/C system recharging operations and the devices, must be properly blocked using the specific mechanical brakes/blocks, while being service.

Safety Precautions:

- *Always make sure that the vehicle is in neutral gear (or that it is set in parking position in case of a vehicle equipped with automatic transmission).*
- *Always activate the hand brake or parking brake on the vehicle.*
- *Always block the wheels on the vehicle with the specific mechanical blocks.*
- *Make sure the device is stable, on a flat surface and the wheels are locked with the specific brakes.*

3.2.4 Hazards Caused by Moving Parts

	Vehicle engines include parts that move, both while running and not running (eg: the cooling fan is controlled by a thermal switch in connection with the refrigerant temperature and become activated even when the vehicle is off), that can injure the operator.

Safety Precautions:

- *Keep hands away from moving parts.*
- *Disconnect the engine cooling fan each time the engine you are working on is still hot. This will avoid the fan from becoming activated unexpectedly even when the engine is off.*
- *Do not wear ties, loose clothes, wrist jewellery or watches when working on a vehicle.*
- *Keep connection cables, probes and similar devices away from the moving parts of the engine.*

3.2.5 Risk of Burning or Scalding

	The parts that are exposed to high temperatures in engines that are moving or have just stopped could burn the operator. Remember that catalytic mufflers reach very high temperatures, able to cause serious burns or even start fires. Acid in the vehicle batteries is another potential hazard.

Safety Precautions:

- *Protect your face, hands, and feet by using suitable protection.*
- *Avoid contact with hot surfaces, such as spark plugs, exhaust pipes, radiators and connections within the cooling system.*
- *Make sure there are no oil stains, rags, paper or other inflammable material near the muffler.*
- *Avoid splashing electrolyte on skin, eyes and clothes, as it is a corrosive and highly toxic compound.*

3.2.6 Fire and Explosion Hazard

The following are potential fires and/or explosion hazards:

- *The types of fuel used by the vehicle and the vapours released by these fuels.*
- *The refrigerants used by the A/C system.*
- *The acid in the vehicle batteries.*

Safety Precautions:

- *Let the engine cool.*
- *Do NOT smoke near the vehicle.*
- *Do NOT expose the vehicle to open flames.*
- *Make sure that the electrical connections are all well insulated.*
- *Collect any fuel that might have spilled.*
- *Collect any refrigerant that might have spilled.*
- *Make sure you are always working in an environment equipped with a good ventilation and air extraction system.*
- *Always activate the air extraction system when working in closed environments.*
- *Cover the openings of the batteries with a wet cloth in order to stifle the explosive gases before proceeding in testing or recharging.*
- *Avoid causing sparks when connecting cables to the battery.*

3.2.7 Noise Hazard

Loud noises that may occur within the workplace, especially during service operations may damage the operator's hearing.

Safety Precautions:

- *Protect your ears with suitable protective ear wear.*

3.2.8 High Voltage Hazard

The voltage supply from the mains that powers the devices in the workplace and the voltage within the vehicle starter system is a potential shock hazard to the operator.

Safety Precautions:

- *Make sure the electrical system in the workplace is compliant to current national standards.*
- *Make sure the device being used is connected to ground.*
- *Cut off the power supply voltage before connecting or disconnecting cables.*
- *Do NOT touch the high voltage cables when the engine is on.*
- *Operate in conditions of insulation from ground.*

- *Work with dry hands only.*
- *Keep conductive liquids away from the engine while working.*
- *Never leave tools on the battery in order to avoid accidental contacts.*

3.2.9 Poisoning Hazard

	The hoses used to extract the refrigerants can release toxic gases, dangerous to the operator if exposed to temperatures higher than 250 °C or in case of a fire.

Safety Precautions:

- *Contact a doctor immediately should you inhale these gases.*
- *Use neoprene or PVC gloves when eliminating combustion deposits.*

3.3 *General User and Maintenance Warnings*

When using the device or carrying out scheduled maintenance (eg. fuse replacement) on the device, carefully follow the information provided below.

- *Do not remove or damage the labels/tags and the warnings on the device; do NOT in any case make them illegible.*
- *Do not remove, or block, any safety devices the device is equipped with.*
- *Only use original spare parts or spare parts approved by the manufacturer.*
- *Contact your retailer for any non-scheduled maintenance.*
- *Periodically check the electrical connections of the device, making sure they are in good condition and replacing any damaged cables.*
- *Check parts that are subject to wear periodically and replace if necessary.*
- *Do not open or disassemble the device.*

4 SPECIFIC SAFETY RULES FOR INSTALLING TMD MK3 EDR

The technology used for the design and the production inspection of the **TMD MK3 EDR** devices and related accessories, make them reliable, simple and safe to install and use.

The personnel qualified to install telediagnostic devices is required to follow the general safety rules, to employ the **TMD MK3 EDR** devices and related accessories for their intended use only. and to preserve the correctly, as described in this manual.

4.1 Glossary

Operator: a qualified person responsible for installing the remote diagnostic device.

Device: any TMD MK3 EDR device.

Wiring: specific electric cables needed to connect TMD MK3 EDR to its accessories, to the power supply, to the antenna, etc.

4.2 General Rules

- *The operator must have basic knowledge of mechanics, automotive industry, car repairs and of the potential dangers that can occur during installation operations.*
- *The operator must carefully read and understand the information and the instructions in the technical documents provided with the device.*

4.3 Operator Safety

	The airbags inflate with great force and a device placed in their expansion area may be projected towards the occupants of the vehicle causing serious harm and injuries.

Safety Measures:

- *Do not place the device in the expansion areas of any airbag.*

	The device was manufactured to be electrically safe and insulated. It is however necessary to reduce the risk of electric shock.

Safety Measures:

- *Make sure the electric power supply devices (auxiliary batteries) are disconnected and that they remain so during the entire installation before proceeding with the installation itself.*
- *Do not touch the device, the accessories and the wiring with wet hands.*
- *If liquid should penetrate inside the device, immediately disconnect the power supply wiring and contact technical assistance.*

	The device's antenna was manufactured to be electrically safe and mechanically resistant. However, if the antenna is damaged in some way, contact with skin could cause minor burns.

Safety Measures:

- *Do not use the accessory device if the antenna is damaged.*
- *Do not touch the antenna with bare hands.*
- *Immediately contact technical assistance.*

4.4 Device Safety

	The device was manufactured to be mechanically resistant. Careless use and excessive mechanical strain may impair its efficiency.

Safety Measures:

- *Do not drop, shake or knock the device.*
- *Do not place objects over the cables nor bend them.*
- *Do not carry out any type of intervention that may damage the device.*
- *Do not open or disassemble the device.*
- *Do not fold the device's antenna.*
- *Use the device only with the antenna it is provided with or with one authorised by the device's manufacturer.*
- *Make sure the device and any accessory connected to it are firmly secured before moving the vehicle they are installed on.*

	The device was manufactured to be electrically safe and to work with specific supply voltage levels. Failure to comply with the specifications related to the power supply may impair its efficiency.

Safety Measures:

- *Do not wet the device with water or other liquids.*
- *If not otherwise specified, use the device on vehicles with a 12/24 V DC power supply and the chassis connected to the negative pole.*
- *The device's power supply must always be connected following the indications provided in this manual.*
- *Do not use an external batteries to supply the device.*

	The electromagnetic compatibility tests carried out on the device guarantee that it can be adapted to the technologies normally used on vehicles (ex.: engine control, ABS, airbag, etc.). Nevertheless, if malfunctions occur, contact the vehicle's dealer. In particular, the device's proper operation could be compromised by covering the antenna with shielding objects and/or materials. Such materials force the device to work with a higher power compared to what is normally required.

Safety Measures:

- *Do not cover the antenna with shielding objects or materials.*

4.5 Safety during the Installation

	The device was manufactured to be used in specific environmental conditions. The installation and use of the device in environments with temperature and humidity features different from those specified could impair its efficiency.

Safety Measures:

- *Store the device in a dry area and away from dust.*
- *Do not expose or install the device near sources of heat.*
- *Position the device in order to guarantee its proper ventilation.*
- *Do not use corrosive chemicals, solvents or harsh detergents to clean the device.*

	The installation of the device was carefully tested by qualified personnel in TEXA. You must follow some indications provided by the vehicle manufacturer in order to install the device correctly.

Safety Measures:

- *Follow the indications provided in the vehicle's manual carefully to disassemble the plastic parts and the access to the compartments.*
- *Respect the safety distances from the systems with the following functions:*
  - *airbag;*
  - *ABS;*
  - *speed limiter;*
  - *seat belt pretensioners.*

	The installation of the device requires a connection to the vehicle's electrical system. Perform the connection to the vehicle's electrical system making sure not to compromise the safety and its correct functioning.

Safety Measures:

- *Insulate each of the device's connections to the vehicle's electrical system.*
- *Equip the openings crossed by cables with fairleads.*
- *Do not compromise in any way the quality of the electrical and mechanical OEM wiring.*
- *Make sure the electric cables, the wiring in general, the fuel hydraulic pipes and the safety pneumatic devices of the vehicle are not damaged during the installation.*
- *Make sure the installation does not compromise the correct functioning of the vehicle's controls, in particular the brakes and, in general, the safety devices.*

- *Do not connect to the electric circuits of systems with the following functions:*
  - *airbag;*
  - *ABS;*
  - *speed limiter;*
  - *seat belt pretensioners.*
- *Do not change the current flow of an OEM circuit by cutting it off, increasing it or mechanically changing it cables if not permitted by the vehicle manufacturer.*

	The device must be installed so that it works correctly and safely.

Safety Measures:

- *Avoid contact between the device and vibrating parts of the vehicle.*
- *Do not spread out the wiring with the cables stretched.*
- *Do not spread out the wiring in walkable areas or in areas that are subject to friction without the necessary protections.*
- *For the installation you must use only the wiring and the components provided with the device.*
- *Put the antenna at a minimum distance of 20 cm from the positions of the vehicle's passengers.*

	At the end of the installation, you must restore the initial conditions of the vehicle.

Safety Measures:

- *Restore each OEM electrical connection.*
- *Restore each OEM device (ex.: compartment covers).*
- *Replace the fastening elements that are damaged.*
- *Restore any OEM anti-corrosion systems.*

5 OPERATION OF THE TOOL'S RADIO DEVICES

Wireless connection with Bluetooth, WiFi and HSUPA technology

Wireless connectivity through Bluetooth, WiFi and HSUPA is a technology that supplies a standard, reliable method for exchanging information between different devices using radio waves. Many other products besides those built by TEXA use this technology, such as mobile phones, portable devices, Computers, printers, cameras, Pocket PCs etc.

The Bluetooth, WiFi and HSUPA interfaces search for compatible electronic devices based on the radio signals they emit and establish a connection. TEXA tools only select and prompt compatible TEXA devices. This does not exclude the presence of other sources of communication or disturbance.

THE EFFICIENCY AND QUALITY OF BLUETOOTH, WiFi AND HSUPA COMMUNICATION MAY BE AFFECTED BY THE PRESENCE OF RADIO DISTURBANCE. THE COMMUNICATION PROTOCOL IS DESIGNED TO MANAGE THESE TYPES OF ERRORS; HOWEVER, IN SUCH CASES COMMUNICATION MAY BE DIFFICULT AND CONNECTION MAY REQUIRE SEVERAL ATTEMPTS.

SHOULD THE WIRELESS CONNECTION ENCOUNTER SERIOUS PROBLEMS AND COMPROMISE REGULAR COMMUNICATION, THE SOURCE OF THE ENVIRONMENTAL ELECTROMAGNETIC DISTURBANCE MUST BE IDENTIFIED AND ITS INTENSITY REDUCED.

Position the tool so that the radio devices it is equipped with can work properly. In particular, do not cover it with any shielding or metallic materials in general.

6 REGULATORY INFORMATION

Declaration of Conformity

CE	Texa S.p.A. hereby declares that this **TMD MK3 EDR** complies with the essential requirements and with all further provisions defined by the 1999/5/EC regulation.

A complete copy of the Declaration of Conformity can be found at

Texa S.p.A., Via 1 Maggio 9, 31050 Monastier di Treviso (TV), Italy

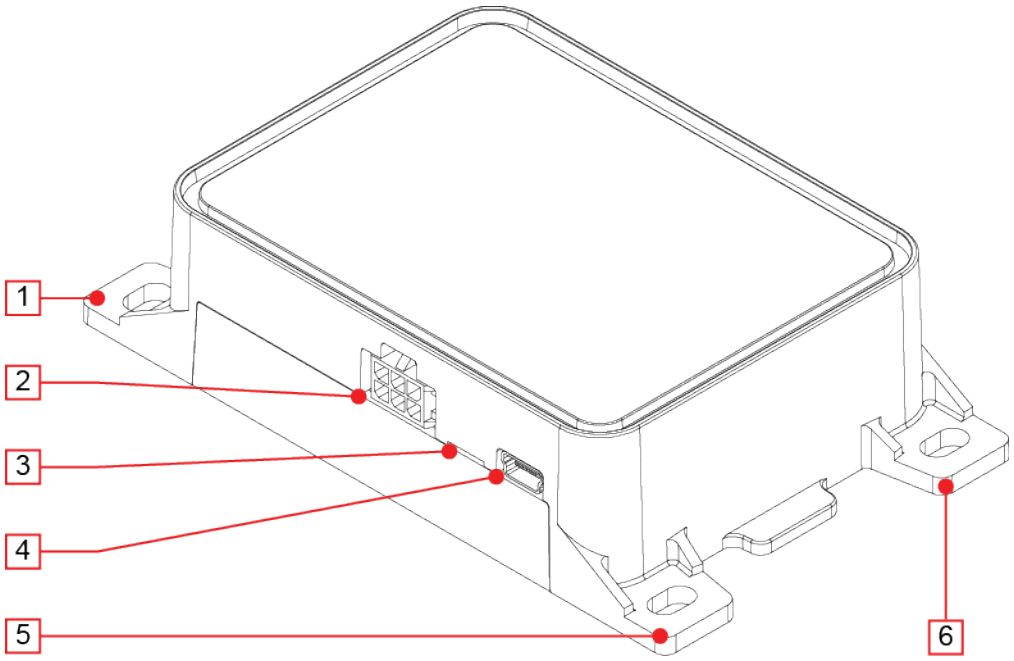
7 TMD MK3 EDR

TMD MK3 EDR is a GPS localization device able to communicate via Bluetooth with other diagnosis devices.

The **TMD MK3 EDR** Kit includes:

- *TMD MK3 EDR.*
- *Wiring for the electrical connection.*
- *Installation Manual.*

8 DESCRIPTION



1. **Fixing hole**
2. **L1 - Accessory and power connector**
3. **LED:**
   a) **red LED**
   b) **Blue LED**
   c) **green LED**
4. **USB device connector**
5. **Fixing hole**
6. **Fixing hole**

To install additional devices, consult the user and installation manuals provided in the packages of each device.

9 INSTALLATION

The following chapters describe the device's installation phases.

Please read this manual thoroughly before proceeding with the installation.

The installation must be performed by qualified personnel only.

For the installation you need:

- *Scissors and a wire stripper.*
- *Flat-tip and Phillips screwdriver (medium).*
- *A 12 mm hole saw for the hole, if required, needed to pass the wiring cable pass from the engine compartment to the passenger compartment.*
- *5 mm drill bit for the assembly screws.*
- *Plastic cable ties.*
- *Pliers for cable terminals.*
- *Square tip pliers.*
- *PC connected to Internet in order to program the device.*

The installation requires the following phases:

1. *Reading of the installation and user manual.*
2. *Planning and positioning of the device.*
3. *Power supply connections.*
4. *Connection of the wiring to the device.*
5. *Configuration.*

9.1 Recommendations for a Correct Installation

When choosing the most suitable place to locate the device, you must consider the distance between **TMD MK3 EDR** and the external diagnostic device.

Consider that the coverage range of the devices equipped with Bluetooth technology inside the vehicle's passenger compartment is approximately 3 metres.

TMD MK3 EDR must be placed in a position that allows an easy connection of the diagnostic wiring yet maintaining an appropriate distance that does not expose the device to the direct heat from the engine.

Consider that the diagnostic wiring (code 3903733) is approximately 3 metres long.

9.2 *Positioning TMD MK3 EDR*

Once you have located the connection points to the power supply lines, you must find the most suitable place to fasten the device.

When positioning the device, you must follow some general rules:

- *It must be far from sources of heat*
- *It must be in a dry place and away from moisture and water*
- *It must be close enough to enable the connection to diagnostic devices*
- *It must be in a place where the internal antennas are not shielded*
- *The device can be installed facing any direction inside the vehicle*
- *The device must maintain the direction selected when the vehicle is in motion*
- *The device must be secured to a rigid support to prevent it from being subject to excessive vibrations.*

In order to use the inertial sensors, the device automatically calculates its position inside the vehicle.

The automatic calculation takes place during the first trip after the installation.

The trip must last between 2 and 5 minutes based on the type of route.

If the length of the trip or the features of the route (for example the vehicle stops too often) are not sufficient in order to complete the operation, it will be repeated during the following trip.

The data of the inertial sensors will not be used by the device until the operation described above has been completed, in particular the identification of a possible accident will not be active.

Once this phase is completed, all the functions configured that require the use of the inertial sensors will be enabled automatically.

9.3 Power Supply Connections

To power **TMD MK3 EDR** use the specific cable provided (code 3903929) with the device.

 **Do not connect the connector to TMD MK3 EDR until the entire system is completed.**

 **Use the cable with the loose wires.**

Proceed as follows:

1. *Identify the red wire (+30 VBatt.), the yellow wire (+15 V key-on) and the black wire (ground).*
2. *Draw power for the +30 VBatt line directly from the vehicle's battery.*

NOTE:

It is MANDATORY to connect of the yellow wire (+15 V key-on) only in case of accessories such as the driver recognition device.

 **Make sure the +30 V and ground power supplies are correct in order to avoid causing false alarms from the TMD MK3 EDR control unit (discharged battery alarm, power disconnection alarm).**

9.4 *Checking the Installation*

Once you have completed all the operations described in the previous chapters, you must make sure the installation has been carried out correctly.

Proceed as follows:

1. *Connect the* **TMD MK3 EDR** *power supply connector and turn the vehicle ignition key to the "***ON***" position.*
2. *Wait for the red LED on the* **TMD MK3 EDR** *to start flashing.*

If the LED does not turn on, proceed as follows:

1. *Disconnect the power cable from TMD MK3 EDR.*
2. *Wait 5 seconds.*
3. *Reconnect the power cable.*

10 CONFIGURATION

In order to use the advanced functions of the device, you must carry out a configuration procedure.

You can configure the device through:

- *the* **MK3Starter** *software,*
- *the on-line portal.*

10.1 Configuration through MK3Starter

You can carry out the device's configuration using the specific MK3Starter software.

The software consists of an app for Android devices that can be downloaded free of charge through Play Store.

For a proper operation of the MK3Starter, the device the app is installed in must connect to the Internet and be enabled to install apps coming from unknown creators.

For further information consult the MK3Starter operating manual.

10.2 Configuration through the Portal

The device can be configured remotely through the TMD portal.

All the operations performed automatically through **MK3Starter** may be managed through the portal.

The portal may be used to eventually correct wrong configurations.

The access to the configuration pages in the portal is linked to the rights granted to the user with which you login.

For further information contact Technical Assistance.

11 MAINTENANCE

In order to guarantee a correct functioning of **TMD MK3 EDR** and of the accessories connected to it, you must perform regular checks on the device.

We remind the operator to carry out the tests with the utmost care, making sure he is working in total safety during all of the steps (see **General Rules for the Safety of Operators** in this manual, also).

Maintenance interventions must be performed within 15 days from the installation of the TMD MK3 EDR and then every 6 months.

In particular:

- *Carry out a visual check of all the devices installed.*
- *Make sure the device is not damaged; make sure all covers/plastic parts are properly fastened; make sure no wiring is cut and/or damaged, no connectors are disconnected and/or loose. Furthermore make sure the antennas are properly fixed in their installation housings.*
- *Make sure the connections are not damaged, oxidised, exposed to atmospheric agents, water and humidity.*
- *Make sure all screws and bolts used to fasten* **TMD MK3 EDR** *are not damaged and are properly tightened.*

If the wiring or the connections have been exposed to atmospheric agents, water and moisture, proceed with the waterproofing.

In case of damaged cables, contact TEXA S.p.A. in order to have them replaced.

For any fault or complication, contact the TEXA S.p.A. assistance service immediately.

12 INDICATIONS IN CASE THE VEHICLE IS NOT USED FOR A LONG TIME

The correct functioning of **TMD MK3 EDR** as geolocalizer requires the device to be constantly powered even when the vehicle is stationary, the engine is off and the ignition key is not inserted.

In these conditions **TMD MK3 EDR** continue to absorb current from the vehicle's battery.

 **TMD MK3 EDR was designed to optimise consumptions, however if the vehicle is not used for a long period of time, it could sensibly lower the charge level of the battery.**

Refer to the instructions provided in the user and maintenance manual if the vehicle is not used for a long time.

If the vehicle is not used for a long period of time, you may disconnect **TMD MK3 EDR** from the power supply.

For more information contact TEXA S.p.A. assistance service.

13 BLINK CODES

The device uses the flashing of the LEDs to indicate its status.

The status LEDs are: green, red and blue and can flash with different frequencies.

13.1 LED flashes with the Instrument panel On

During normal operating conditions, when the device must connecting to the server to send the data, the notifications are given through a continuous cycle of 3 flashes.

Each series of flashings is approximately 2 s after the previous one.

The three flashings indicate respectively the status of:

1. *The reception of the position signal from the GPS satellites.*
2. *The connection to the GPRS network.*
3. *Connection to TEXA Cloud.*

Below is the explanation regarding the correct reading of the flashes of the **red and green LEDs**:

Flash	**Red LED**	**Green LED**
1st	Invalid GPS position*.	Valid GPS position.
2nd	Invalid GPRS connection**.	Valid GPRS connection.
3rd	TEXA Cloud connection not valid.	TEXA Cloud connection valid.

(*)INVALID GPS POSITION:

This could be due to the vehicle parked in a closed area or passing through a dead zone where the flow of the data coming from the satellites is missing or affected by many interferences (ex.: military areas).

(**)TEXA CLOUD CONNECTION NOT VALID:

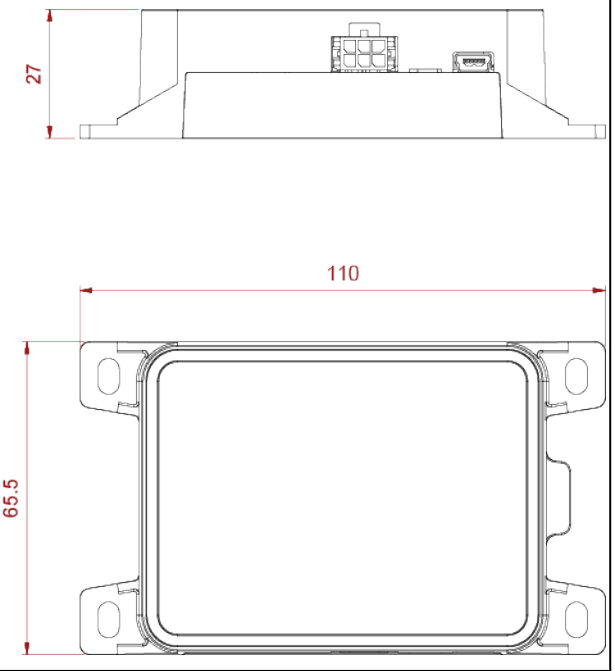
This could be due to a problem with the telephone or Internet service providers caused by ordinary / extraordinary maintenances on the network, by the weather conditions or by the passage in an area not covered by the GPRS signal.

13.2 *Flashes of the Blue LED*

Below is the explanation regarding the correct reading of the flashes of the **blue LED**:

LED		**Status**
Blue	Off	No Bluetooth communication.
	On	--
	Flashing	Device in communication via Bluetooth.

14 TECHNICAL FEATURES

Manufacturer:	TEXA S.p.A.
Model:	TMD MK3 EDR
CPU:	AM3352 CORTEX A8
RAM:	256 MB
FLASH:	256 MB
GPRS module:	GPRS 2G or 3G optional
GPS module:	GPS, GLONASS, Galileo and QZSS module
Interfaces:	service device type USB 2.0, BT 4.0, LIN bus
Sensors:	16 g / 400 g sensor, barometric, gyroscope
Operating System:	Linux
Battery:	3,7 V - 1050 mAh
Power:	direct from 12 V vehicle battery max 400 mA at 12 V
Operating temperature:	- 30 ÷ 60 °C - 30 ÷ 65 °C without internal battery
Storage temperature:	- 30 ÷ 70 °C
Battery recharging temperature:	0 ÷ 45 °C
Operation moisture:	10 ÷ 80 %
Dimensions:	
Weight:	100 g

Dust/liquid protection:	IP 40
Regulations and Directives:	Compliant to: • *ECE / ONU R10* • *R&TTE 1999/05/EC* • *RoHS 2011/65/EU*

15 ENVIRONMENTAL INFORMATION

 **For information regarding the disposal of this product please see the pamphlet supplied.**

16 LEGAL NOTICES

TEXA S.p.A.

Via 1 Maggio, 9 - 31050 Monastier di Treviso - ITALY

Cod. Fisc. - No. of Companies' Register of Treviso - Part. IVA: 02413550266

Single member company and subject to management and co-ordination of Opera Holding S.r.l.

Share capital of 1.000.000 € i.v. - R.E.A. N. 208102

Legal Representative Bruno Vianello

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Fax +39 0422.791.300

www.texa.com

For information regarding the legal notices, please refer to **International Warranty Booklet** provided with the product in your possession.