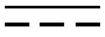
MANUAL

BHD21

SYMBOL TABLE USED

SYMBOL	DEFINITION
	THIS SYMBOL HAS THE PURPOSE OF NOTIFYING THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE DOCUMENTATION
	This symbol indicates DC (Direct Current)
12 V 	Rated DC voltage

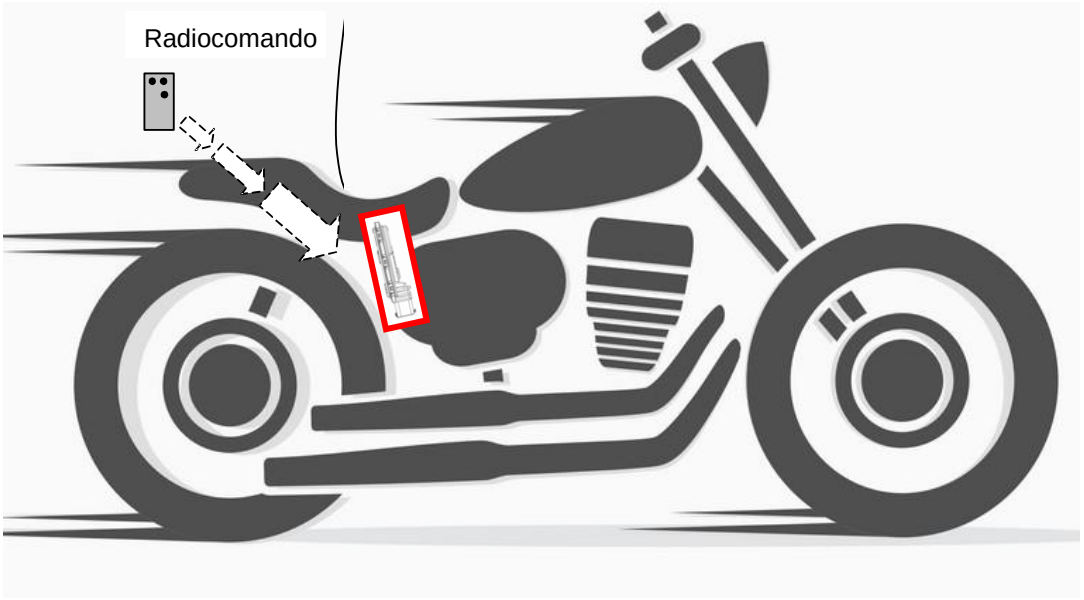
Product description

BCM HD (Body Computer Module Harley Davidson) manages the main functions of motorcycle electrical system, performing gateway operations between CAN networks (C-CAN) and between CAN and LIN network. The BCM HD is design to guarantee the security up to ASIL level B for same function

On motorcycle, ECU is placed in a compartment under the saddle See attached file Product Description for a complete functional definition.

The equipment is an Body Compter Module, it's a highly integrated hardware platform with a well defined features set for connectivity.

System Specification



On motorcycle, ECU is placed in a compartment under the saddle See attached file Product Description for a complete functional definition.

The device is intended for OEM installation only.

Position on the vehicle

The installation and maintenance of the Product is always carried out by specially trained personnel through dedicated equipment, and no end-user operation is required for End Use

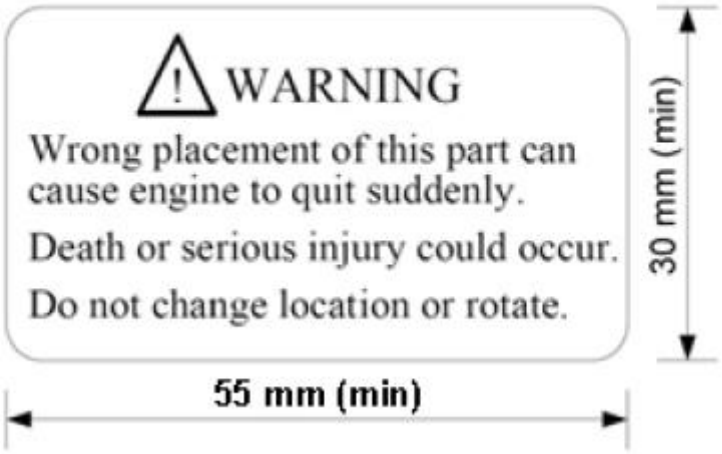
Enclosure and installation.
The device is NOT accessible to final user.

Recommended ambient temperature: +45 °C

Additional requirements: This equipment is intended to operate in vehicles

This equipment is not suitable for use in locations where children are likely to be present.

(A) The top cover of the BCM SHALL contain the following raised/indented text:



Energy Source Classifications

Classification of installation and use	Stationary
Supply Connection	Not directly connected to mains
Nature of supply ..... :	D.C.
Pollution degree .....:	2
Class of protection against electrical shock :	Class III
Environmental rating.....	Operating temperature: 45°C
Degree of protection against moisture ..... :	IP67
Type of cord attachment ..... :	Polarized connector on PCB
	Connector for power supply (to external vehicle's battery)
Operating conditions.....	Continuous operation
Overall size of the equipment (WxDxH) ..... :	150mm x 120 mm x 40 mm
Mass of the equipment	380 g
Type of mounting	to be fixed to a support
	To be fixed ≤2m
	Stationary appliance
	Equipment used in vehicles at elevations: < 2000 m

TAB compliance with EN 62368-1

Product identification:

- Field of application: Automotive
- Trademark: MARELLI
- Model: BHD21
- HW version: 03
- SW version SW 4.02
- Power supply: 12V DC
- Watt 250 W
- TX 125kHz: NXP NJJ29C0B
  - Operative frequency: 125.05 kHz
  - Modulation frequency: 4kHz ASK
  - H Field @ 10m: -30.57 dBµA/m @10m
  - Antenna type: magnetic coil (external)
  - Antenna inductance: 245µH
- VERSION @ RX 433MHz: ATA5781
  - Operative frequency: 433.92 / 315 MHz
  - Modulation: FSK
  - Frequency deviation: 9.6 kHz
  - Antenna type: wire (external in the harness) (typical 50cm)
- VERSION @ RX 315MHz: ATA5781
  - Operative frequency: 433.92 / 315 MHz
  - Modulation: FSK
  - Frequency deviation: 9.6 kHz
  - Antenna type: wire (external in the harness) (typical 50cm)

For an exhaustive description, please refer to the Product description [1].

List of standard compliant:

- RSS-GEN Issue 5 + RSS210 Issue 10
- FCC cfr47 part 15 – subpart B - §15.207, §15.209

FCC Compliance statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

"Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."

"This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

Canada Compliance statement:

"This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

This Class B digital apparatus complies with Canadian ICES-003

"This equipment complies with Industry Canada radiation exposure limits set forth for an uncontrolled environment. "
"Cet équipement est conforme à l'exposition aux rayonnements Industry Canada limites établies pour un environnement non contrôlé. "

List of critical components

4.1.2	**TABLE: List of critical components**				
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity[1]
PCB Logic board (material)	KUNSHAN SUHANG CIRCUIT BOARD CO LTD	SH-M1	PCB FR4 6L 1.6mm	UL94	c UL us (E154554)
Enclosure (plastic material)	Boardman Molded Products	N60MG40FR	V-0 Certificate of Analysis N60MG40HSL.FR.BK LOT# 1229B3457	UL94	**N60MG40HSL.FR.BK**
CONNECTOR	Mista S.p.A.	ForTii T11	PPA-GF30 FR(40)	UL94 V-0 IEC 60695-11-10 – 20	c UL us E47960-101240758
Contact Authorized Services should the fuse blow again.					
Never replace a blown fuse with metallic wires or other material.					
Never replace a fuse with another of higher amperage: FIRE RISK.					
Remove the key from the ignition switch and switch off all loads before replacing a fuse.					