



**BRP RF DESS POST Gen2
Micro 48 Pins**

User manual

and

RF certification / marking per country

Covered part number		
Model	BRP	BRP MEgatech
MOWP	515179240	1001298626

Revision history		
Revision	Release date	Details
0	2023-12-18	Original release



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20



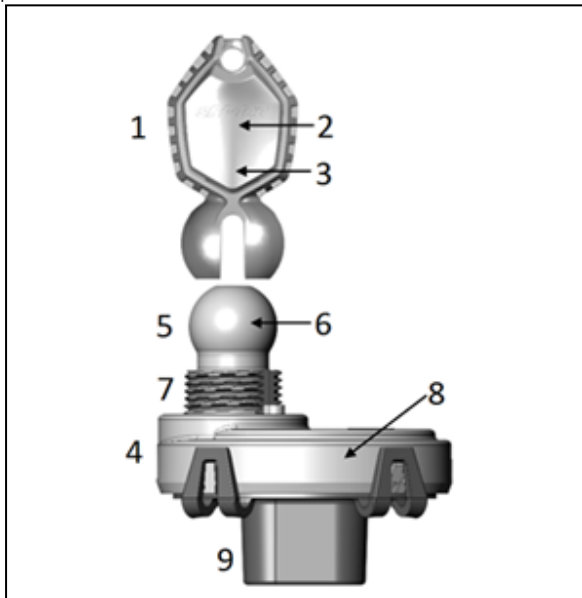
User manual section



BRP RFID D.E.S.S. USER MANUAL

GENERAL

The BRP RFID D.E.S.S. (Digitally Encoded Security System) is composed of 2 parts, the RFID key (sold separately) and the RFID post.



COMPONENTS

1. RFID key (sold separately)
2. RFID tag internal to the RFID key
3. Magnet internal to the RFID key
4. RFID post
5. Snap ball to fix the RFID key
6. Internal Hall Effect cut-off device
7. Thread to fix the RFID post to the vehicle console
(plastic nut part number to be use: 278002963)
8. Internal antenna
9. Electrical connector

OUTPUT TERMINALS

CAN MODEL	
TERMINALS	FUNCTIONS
A	Ground
B	Cut-off switch
C	CAN Low
D	Supply
E	CAN High

ONE-WIRE MODEL	
TERMINALS	FUNCTIONS
A	Ground
B	Cut-off switch
C	One-Wire
D	Supply

USAGE

This RFID post is used to:

- Read the UID of the RFID key snapped on post and communicate the relative information to the ECM (Engine Control Module).
- Keep the vehicle engine running as long as the RFID key is snapped onto the RFID post.
- Stop the vehicle engine if the RFID key is removed from the RFID post.



BASIC OPERATION

When a user attempts to start the vehicle, the vehicle ECM powers the RFID post. Once powered, the RFID post senses the RFID key's magnet using its internal Hall sensor. The cut-off circuit output is close if a magnetic field is sensed, allowing the vehicle engine to run. Afterward, the RFID post activates its RFID reader, powering the RFID key, allowing it to send its UID. A message is then transmitted to the ECM through the communication link.

The complete key reading process is normally done within a few tenths of a second after pressing the start button.

CAUTIONS

- The RFID post must be installed on vehicles only at the location designated by BRP.
- Do not introduce anything having metallic parts within a radius of 5 cm around key and RFID post while the key is read
- Do not head any wire carrying electrical current within a radius of 5 cm around key and RFID post while the key is read
- The RFID post should only be used with the original BRP RFID D.E.S.S. keys.
- CAN RFID D.E.S.S. post must be matched with the vehicle by an authorized BRP dealer.

- D.E.S.S. keys must be programmed by an authorized BRP dealer.
- The antenna is built-in to the internal PCB and cannot be replaced nor modified. No external antenna can be connected to this device. RF circuit is matched for internal antenna only.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

SPECIFICATIONS

SPECIFICATION	
RFID DESS operating and storage temperature	-40°C à +85°C.
Operating voltage	6 à 18V CC
One-Wire model reference number	1001298626
Antenna gain	-13.6 dBi

SUPPORT

For any question about RFID D.E.S.S. or any other BRP product please visit:



<https://www.brp.com/en/forms/contact-us.html>



RF certification and marking per country section



1. Argentina

Certifier body: Comision Nacional de Comunicaciones

	Model Number	BRP Megatech Certificat Number	Certifier body Reference Number
	1001298626	1451095	- EX-2023-24351970

2. Australia Certifier body : Braco Compliance Pty Ltd

	Model Number	BRP Megatech Certificat Number	Certifier body Reference Number
	1001298626	1451086	3876-01

3. New Zealand

	Model Number	BRP Megatech Certificat Number	Certifier body Reference Number
	1001298626	1451087	3877-01

4. Bahamas


Certifier body: URCA, Utilites Regulation & Competition Authority of Bahamas

	Model Number	BRP Megatech Certificat Number	Certifier body Reference Number
	1001298626	1451088	URCA_TA_2023_047



5. Brazil

Certifier Body: República Federativa do Brasil, Agência Nacional de Telecomunicações

	Model Number	KA's Certificat Number	Certifier Body Reference Number
	1001298626	1451077	05248-23-15603

6. Canada

Industrie Canada : <https://sms-sgs.ic.gc.ca/equipmentSearch/searchRadioEquipments?execution=e1s2>

BRP Megatech document number : 1451071

Certification number / Numéro de certification: 12006A-1001301698

For variant 1001298626

Certificate number / Numéro de certificat : 444797-6

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 device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

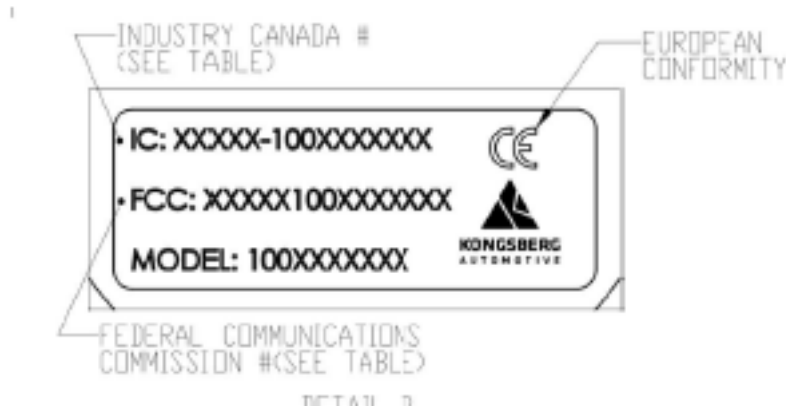
- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
- (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.




Marking : Labelling on the product



7. Cayman Islands

No certification required in Cayman Islands for the devices

8. Chile

 Subsecretaría de Telecomunicaciones	Model Number	BRP Megatech Certificat Number	Certifier body Reference Number
	1001298626	1451078	3245 /DO 96318/F-25

9. China

Investigation and Confirmation Letter of SRRCP
Product Catalogue


13.56MHz Micro-power Short-Range device is exempted from the current SRRC certification scope.

BRP Megatech's Document ref. 1001277305




10. Colombia

Certifier body : Comision de Regulation de comunicaciones

	Model Number	BRP Megatech Certificat Number	Certifier body Reference Number
	1001298626	1451092	2023800338


11. Costa Rica

Certifier body : Superintendencia De Telecomunicaciones

	Model Number	BRP Megatech Certificat Number	Certifier body Reference Number
	1001298626	1451075	01237-SUTEL-DGC-2023


12. Curaçao

Certifier body : The Minister of Traffic, Transportand Urban Planning

	Model Number	BRP Megatech Certificat Number	Certifier body Reference Number
	1001298626	1451090	2023/017/TA

13. Ecuador

Certifier body : Agencia de Regulacion y Control de las Telecomunicaciones

	Model Number	BRP Megatech Certificat Number	Certifier body Reference Number
	1001298626	1451093	ARCOTEL-NRH-2023-001462



14. Europe

EU DECLARATION OF CONFORMITY

This declaration of conformity is issued under the sole responsibility of the manufacturer.

BRP Megatech's Certificate of compliance Ref. 1451073

The following standards have been applied

Radio equipment Directive	2014/53/EU
Article 3.1a:	Safety and health IEC 62368-1:2018
Article 3.1b:	EMC ETSI EN 301 489-3 V2.2.0 (2021-11) EN 55032:2015/A11:2020 EN 55035:2017/A11:2020
Article 3.2:	Spectrum usage efficiency ETSI EN 300 330 V2.1.1 (2017-02)

Manufactured by : BRP Megatech

Manufacturer's Address: 90 28e Rue,
Shawinigan, Qc
G9T 5K7
Canada

Type of Equipment: Digitally Encoded Security System module

Model number :

Covered part number		
Model	BRP	BRP MEgatech
MOWP	515179240	1001298626

The undersigned does hereby declare that the equipment complies with the above Directives and Standards.

Signed for and on behalf of : BRP Megatech


Place : Shawinigan, Qc, G9T 5K7

Name : [Alain Lafrenière](#), Function : Quality Assurance Signature: *Alain Lafrenière* DATE: 2024-03-12




15. Haiti

Certifier Body: Conseil National des telecommunication

	Model Number	BRP Megatech Certificat Number	Haiti Reference Number
	1001298626	1451089	CNT-H-RC 0003272

16. Hong Kong

Certifier Body: Nemko

	Model Number	BRP Megatech Certificat Number	Nemko Reference Number
	1001298626	1451082	CA0012300015



17. Indonesia

Certification suspended, information missing


18. Israel

Certifier body: Ministry of Communications

Compliant with FCC 47 CFR Part 15, subpart B

BRP Megatech Industries Inc. : יצרן
1001316154 : דגם
משדר-מקלט : סוג ציוד

הספק (וואט)	תחום תדרים (מה"ץ)	
0.000001	13.5600	13.5600

	Model Number	BRP Megatech Certificat Number	Certifier body Reference Number
	1001298626	1451080	51-92633


19. Japan

Model Number	BRP Megatech Certificat Number	Certifier body Reference Number
1001298626	1451084	AC-23066



20. Mexico

Certifier body: Instituto Federal de Telecomunicaciones

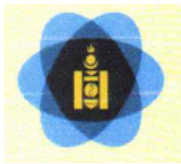
	Model Number	BRP Megatech Certificat Number	Certifier body Reference Number
	1001298626	1451074	BRME1023-28175

Dictamen de IFETEL:

“La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.”

21. Mongolia

Certifier Body: Communications Regulatory commission of Mongolia

	Model Number	BRP Megatech Certificat Number	Certifier Body Reference Number
	1001298626	1451096	A23000876

22. Panama


Certifier Body: Republica de Panama, Autoridad Nacional de Los Publicos

Model Number	BRP Megatech Certificat Number	Certifier Body Reference Number
1001298626	1451091	5788



23. Paraguay

Certifier Body: Conatel Comision Nacional de Telecomunicaciones

	Model Number	BRP Megatech Certificat Number	Certifier Body Reference Number
	1001298626	1451094	2023-01-I-0063

24. Peru


Certifier Body: Ministerio de Transportes y Comunicaciones

Exemption : No es exigible la homologaciones para este equipo

Model Number	BRP Megatech Certificat Number	Certifier Body Reference Number
1001298626	1451076	T-071671-2023

25. Philippines

Certifier Body: Republic of the Philippines National Telecommunications Commission

	Model Number	BRP Megatech Certificat Number	Certifier Body Reference Number
	1001298626	1451098	ESD-RCE-2332132


26. Russia

Certification information for that country to come




27. Singapore

Certifier Body: Infocomm Media Development Authority

	Model Number	BRP Megatech Certificat Number	Certifier Body Reference Number
	1001298626	1451099	<div style="border: 1px solid black; padding: 2px; width: fit-content;"> Complies with IMDA Standards N6009-22 </div>

28. South Africa

Certifier Body: Certifier Body: Independent Communications Authority of South Africa

	Model Number	BRP Megatech Certificat Number	Certifier Body Reference Number
	1001298626	1451081	TA-2023/0175

Label must be on the packaging, exporter have to request labels to BRP Megatech Canada +1(873) 208-5757

29. South Korea


BRP Megatech document : 1451100


R-R-Bml-1001298626¶
Manufacturer::BRP·Megatech·Industries·Inc.¶
Model·Number::1001298626¶
Product::CAN·DESS·POST·¶
Manufactured·Date::2021-06-17¶
Product·of·Canada¶
⌘




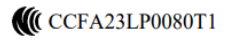
30. Sri Lanka

Certifier Body: Telecommunication Regulatory Commission of Sri Lanka

	Model Number	BRP Megatech Certificat Number	Certifier Body Reference Number
	1001298626	1451085	TRC/SM/TA /0041/23-0194

31. Taiwan

Certifier Body: Nemko

	Model Number	BRP Megatech Certificat Number	Nemko Reference Number
	1001298626	1451083	

Statement

The following text “Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to a approved low power radio-frequency devices. The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications is operated in compliance with the Telecommunications Management Act. The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.”

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

The certified CTRF shall not change the frequency, increase the power or change the RF characteristics and functions of the original design without permission. The utility of the certified CTRF must not affect flight safety and interfere with legitimate communications. If interference is found, it should be immediately deactivated and improved until no interference is found. The legitimate communications in




the preceding paragraph refers to radio communication operating in accordance with the provisions of the Telecommunications Act. The CTRF must withstand interference from legitimate communications or radio equipment for industrial, scientific, and medical applications

以取得審驗證明之射頻模組(組件)組裝於最終產品後，取得審驗證明者，應於該最終產品輸入、販賣或公開陳列前，檢具標註最終產品廠牌、型號及外觀照片之電子檔，向原驗證機關(構)登錄；以射頻模組(組件)取得審驗證明者，授權他人使用其審驗合格標籤，該射頻模組(組件)組裝於最終產品後，取得審驗證明者應檢具標註最終產品廠牌、型號及外觀照片之電子檔，向原驗證機關(構)登錄。

32. Thailand

Certifier Body: Office of the National Broadcasting and Telecommunications Commission

	Model Number	BRP Megatech Certificat Number	Certifier Body Reference Number
	1001298626	1451097	SD00340-23

33. United Kingdom

Certification information for that country to come



34. United States of America

BPR Megatech's Document : 1451072

FCC : <https://fccid.io/2ACER1001301698>

Certification number / Numéro de certification: 2ACER1001301698
For variant 1001298626.

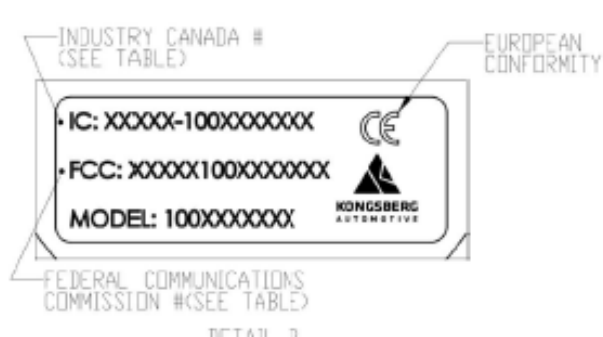
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Marking : Labelling on the product





35. Uruguay

Certifier Body :URSEC (Unidad Reguladora de Servicios de Comunicaciones)

The logo for Uruguay, featuring a stylized sun and the word 'Uruguay' in blue text.	Model Number	BRP Megatech Certificat Number	Nemko Reference Number
	1001298626	1451079	VU20230227-001296