## User's Manual

## ANT ASSY-IMMOBILISER

Model No.: TWK1A004

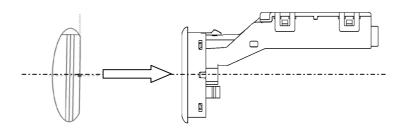
There is no User's Manual because this equipment will not be sold to enduser directly.

## User's Manual

Product name : ANT ASSY-IMMOBILISER Type : TWK1A004

It communicates with IC used both as Transponder and Passive RKE through LF ANT(Z axis) of I-key H/U, and operates as ANT to exchange communication data depending on community signal with BCM.

The ANT ASSY-IMMOBILISER communicates with the transponder in the hand unit when the hand unit is brought close, and receives the code of the key. The immobiliser is used by bringing the hand unit close as shown in figure.



### HAND UNIT

IMMOBILISER

The connector is arranged as shown in the figure below.

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1	2	3	4

Terminal No.	Terminal Name	I/O
1	+B	-
2	CLOCK	ļ
3	DATA	I/O
4	GND	-

AC/DC Supply	DC12V
Range of voltage	DC8~16V
Consumption current	Under 0.5mA(Standby current)
Size	W40xL62xH49(mm)
Operating voltage	DC8~16V(Inner:DC 5V)
Operating temperature	-40~+85 degree C
range	
Consumption current spec	MAX 150mA(@12.5V 25°C) at operation
	MAX 0.5mA(@12.5V 25°C) at standby
Weight	0.03kg
Operation of frequency	125kHz

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Pay attention to the following.

(The operation range might be changed by the environment. )

•Do not contact and bring metals close to the engine SW and the key.

• It may not be operated when using the equipment of the same frequency band in the vicinity.

Please DO NOT the following. Engine is not started by failure of electronic parts. (Product can not receive the signal correctly)

·Give a shock.

•Get it wet. If it got wet, wipe and dry up.

·Disassembly and modification.

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules. 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 this device.

### FCC WARNING

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

### 第十二條

經型式認證合格之低功率射頻電機,非經許可,公司、簡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。

#### 第十四條

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低功率射頻電機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。
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前項合法通信,指依電信法規定作業之無線電通信。

低功率射頻電機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。

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Approved by TRA

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