

Manual of SMART KEY ECU

Product: Smart Key ECU

Model Name: IBU-4E02

1. GENERAL DISCRIPTION

The SMART KEY ECU is a part of START-STOP BUTTON SYSTEM.

It is possible to output the LF(125kHz) signal by pushing the button of door handle and SSB.

If the button of door handle or SSB button is pressed, SMART KEY ECU output the LF(125kHz) signal.

LF signal output for engine start

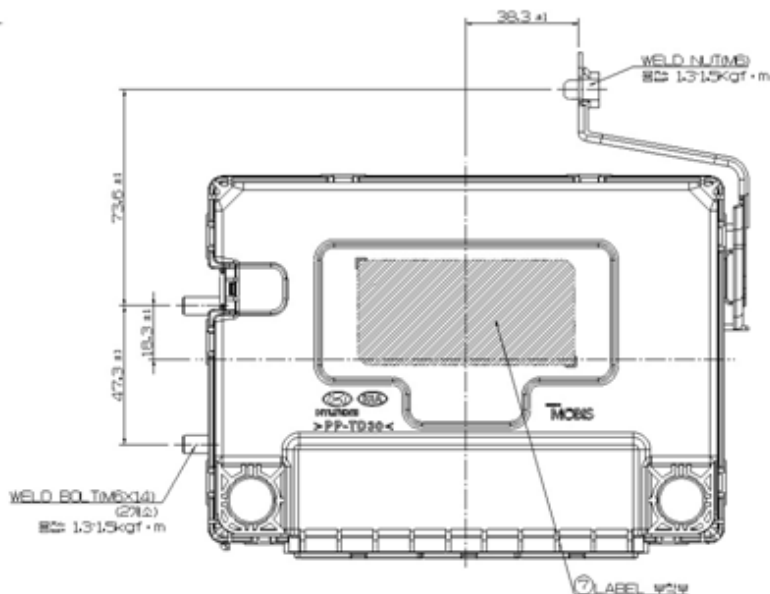
1) SSB button is pressed, SMART KEY ECU output LF signal through the interior LF antenna for Fob searching.

2) LF signal output for door lock/unlock and trunk release

The button of door handle or trunk is pressed, SMART KEY ECU output LF signal through the exterior LF antenna for Fob searching

2. ELECTRICAL CHARACTERISTICS

| | |
|-----------------------|---------------|
| model name | SMART KEY ECU |
| Operating voltage | 9V ~ 16V |
| Dark current | 5mA Max. |
| Operating frequency | 125KHz |
| Modulation | ASK |
| Operating temperature | -30°C ~ +75°C |



FCC Warning

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.