

# PRODUCT SPECIFICATION AND MANUAL

2012.05

BUYER / PROJECT	SANGYONG / MT-IMMO-03
BUYER MODEL	
PART No.	
COMPANY	Mototech Co.,.
MAKER/NATION	Mototech Co.,./Republic of Korea
DRAFT PART	Research Center
DRAFTER	

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<b>Title</b>	<b>Certification Request Document</b>		
<b>Project Name</b>		<b>Drawn</b>	
<b>Model Name</b>		<b>Released</b>	
		<b>Made by</b>	

## Table of Contents

1. CONTENTS..... 3

3. SPECIFICATION..... 4

4. DESCRIPTION ..... 5

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## 1. Contents

- IMMOBILIZER

Name	Unit Ass'y IMMOBILIZER
Use	Encryption code communication ( protect thief)
Summary	<ol style="list-style-type: none"> <li>1. Immobilizer can protect vehicle thief</li> <li>2. Encryption code communication between transponder of transmitter and immobilizer</li> </ol>
Composition	Bobbin ( Coil )

## 2. ELECTRONIC CHARACTERISTICS

- IMMOBILIZER

Name	Unit Ass'y Immobilizer
Operational operating temperature range	: -30°C / +80°C
Storage temperature	-40°C / +85°C
Operational voltage range	6V to 16V
Operational voltage range for CAN	6V to 18V
Dark Current	1.0mA

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### 3. SPECIFICATION

- IMMOBILIZER Antenna

COIL INDUCTANCE	440uH $\pm$ 20
COIL TURNS	89T
COIL WIRE	RICH WIRE (TBD)
MODULATION	ASK
INPUT/OUTPUT FREQUENCY	134.2kHz $\pm$ 4KHz/PWM
ANT CABLE	TWIST - RICH WIRE (TBD)

- Transponder

FREQUENCY	134.2kHz $\pm$ 4KHz
OPERATION TEMP	-40°C - +85°C

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### 4. DESCRIPTION

- System construction of Immobilizer

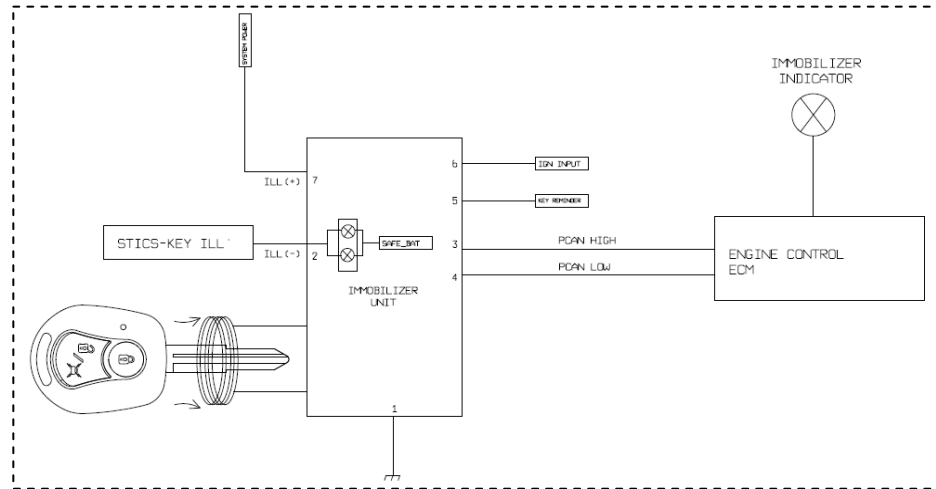


그림 1. Immobilizer Unit Block Diagram

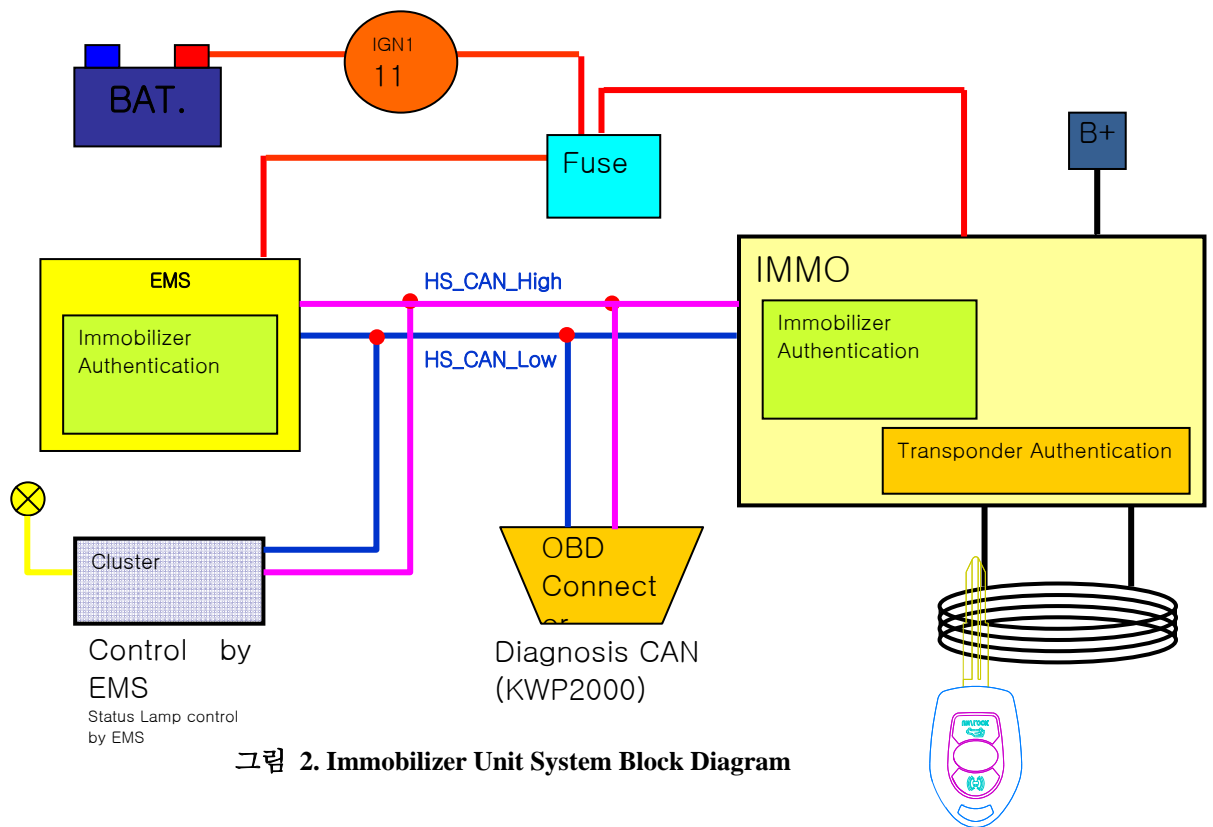


그림 2. Immobilizer Unit System Block Diagram

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(1) A car key is inserted into a key-lock body and the key is put IGN\_ON position, Immobilizer UNIT accomplishes the DIAGNOSIS.

(2) After completing the DIAGNOSIS, UNIT

**FCC (Federal Communications Commission)**

WARNING: This equipment may generate or use radio frequency energy.

Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual.

The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

This device complies with Part 15 of the FCC's Rules. Operation is subject to the following two

Conditions:

1. This device may not cause harmful interference, and
2. This device must accept ant interference received, including interference that may cause undesirable operation.

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