INFORMATION DOCUMENT NO. SCE-0004

RELATING TO FCC TYPE-APPROVAL AS SEPARATE TECHNICAL UNIT OF VEHICLE RF REMOTE KEYLESS ENTRY

CONTENTS LIST

Information Document

Attachment 1 - System diagram

Attachment 2 - Drawing of the transmitter

Attachment 3 - Drawing of the receiver

including this sheet)

(3 sheets)

(1 sheet)

(5 sheets:

(4 sheets)

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

T. I.

SHINCHANG ELECTRICS CO., LTD.

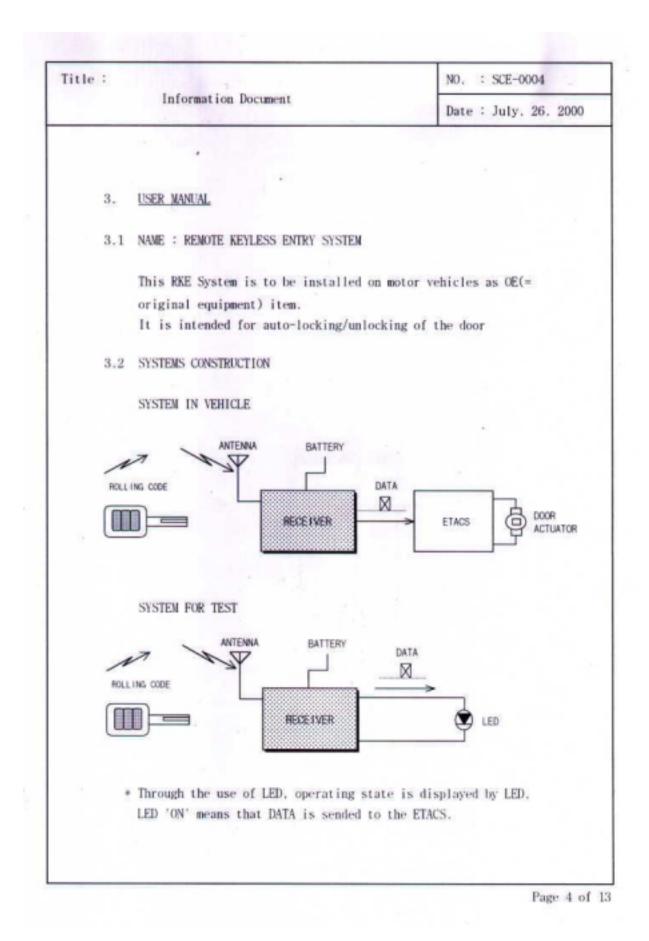
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Title :	Information Descent	NO. : SCE-0004
	Information Document	Date : July. 26. 2000
1.	GENERAL.	
1.1.	Make	
	SHINCHANG ELECTRICS Co., Ltd.	
	Shinding Lizerries co., Etc.	
1.2.	Name and address of manufacturer	
	SHINCHANG ELECTRICS CO., LTD.	
	734-2. Wonshi-dong, Ansan-si, Gyungk	i-do, Korea.
1.3.	Model_NO.	
	REMOTE KEYLESS ENTRY SYSTEM FOR VEHIC	ae
	- TRANSMITTER : SKS-002TX	
	- RECEIVER : SKS-002RX	
1.4.	Address of assembly plant	
	SHINCHANG ELECTRICS CO., LTD.	
	734-2, Wonshi-dong, Ansan-si, Gyungk	i-do, Korea.

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	months enformed		
2.	PRODUCT SPECIFICATION		
2.1	SCOPE		
2.1.1	KEY PART : TRANSMITTER is inside of the FOLDING KEY, and it sends the ROLLING CODE to the RECEIVER by Radio Frequency.		
2.1.2	RECEIVER : It receives the ROLLING CODE and decodes that, and sends the DATA to ETACS*.		
	*ETACS : Electronic Time &	Alarm Control System.	
2.2	SPECIFICATIONS		
2.2.1	TRANSMITTER		
	ITEN	SPECIFICATION	
	RATED SUPPLY VOLTAGE	DC 3V	
	OPERATING VOLTAGE RANGE	DC 2.5 ~ 3.2V	
	OPERATING TEMPERATURE RANGE	-20 ~+60 C	
	STORAGE TEMPERATURE RANGE	-30 - 85 C	
	Modulation	AM	
	Frequency	315.00MHz	
	Code	D IV C I (II - I - II - II - II - I	
	code	Rolling Code(Hopping Algorithm)	
	Electric field strength	Kolling Code(Hopping Algorithm) 199 ~ 500gN/m (315.00MHz)	
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2.2.2	Electric field strength SPURIOUS RADIATION BATTERY LIFE RECEIVER	199 ~ 500gN/m (315.00MHz) -43dBm (MAX) 2 YEAR(Lithium 3V 1EA)	
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2.2.2	Electric field strength SPURIOUS RADIATION BATTERY LIFE RECEIVER ITEM Rated Supply Voltage Operating Voltage Operating Temperature	199 - 500gN/m (315.00MHz) -43dBm (MAX) 2 YEAR(Lithium 3V 1EA) SPECIFICATION DC 12V DC 9 - 16V - 30 - + 80°C	

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3.3 OPERATING SUMMARY	
① By the driver of the vehicle, TRANSMITTE	ER's button is pushed
2 TRANSMITTER sends appropriate CODE by RF	F frequency.
③ RECEIVER gets the code and decodes it.	
④ When Rx proves it to be the right code, to the ETACS.	Rx sends DATA(instruction)
5 ETACS receive it, and drive the actuator	
a chas receive it, and drive the actuator	
The system has the function as follows.	
ℜ Whenever DATA is sended to ETACS, LED is	s turned 'ON'.
3.3.1 LOCK & UNLOCK	
If LOCK or UNLOCK button is pushed for	or less than 1 sec, then
TRANSMITTER sends the LOCK or UNLOCK	
3.3.2 TRUNK OPEN	
If TRUNK button is pushed for more t	han 0.5 sec, then
TRANSMITTER sends the 'TRUNK OPEN' D	ATA
3.3.3 POWER WINDOW DOWN	
If Unlock button has been pushed for	$1.5 \sim 2.0$ sec. then
previously TRANSWITTER sends the 'UN	
send the signal of 'POWER WINDOW DOW	N' to ETACS

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