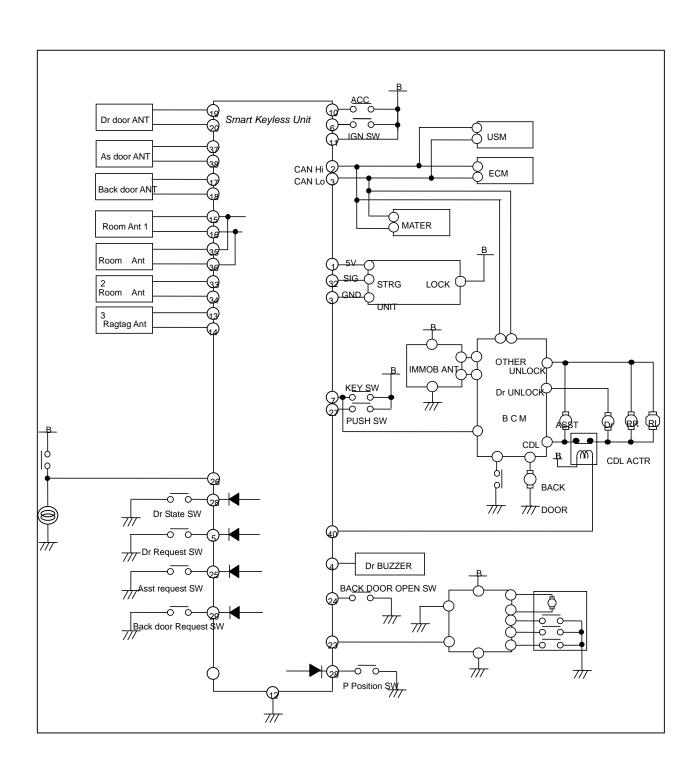
### 1.System block diagram



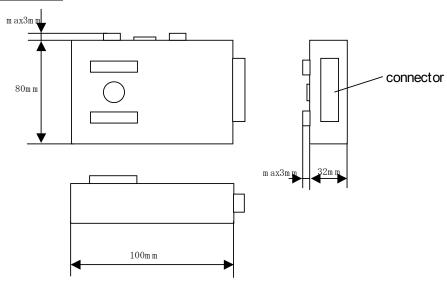
### 2. Connector & Term inal No.

| 1 | 2    | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 2 | 1 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |

TH40HW

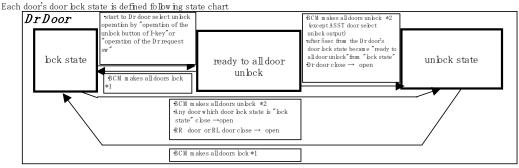
| m · 11    | m : 111                 | m · 11     | m : 1M                      |
|-----------|-------------------------|------------|-----------------------------|
| lem nalNo | TerminalName            | lem malNo. | TemminalName                |
| 1         | STRG LOCK 5V OUTPUT     | 21         | DONGLE K-LINE               |
| 2         | CAN Hi                  | 22         | KEY LOCK SOL for M T        |
| 3         | CAN Lo                  | 23         | (BACK DOOR OPEN OUTPUT OPT) |
| 4         | DrBUZZER OUTPUT         | 24         | (BACK DOOR OPEN SW OPT)     |
| 5         | DrmequestSW             | 25         | ASST requestSW              |
| 6         | IGN SW                  | 26         | (STOP LAMP SW OPT)          |
| 7         | KEY SW                  | 27         | PUSH SW                     |
| 8         | Immobilizer ANT SIG IN  | 28         | (DrLOCK STATE SW OPT)       |
| 9         | Immobilizer ANT SIG OUT | 29         | BACK DOOR request SW        |
| 10        | ACC SW                  | 30         | SECURITY IND                |
| 11        | BAT                     | 31         | STRG LOCK UNIT GND          |
| 12        | GND                     | 32         | STRG LOCK UNIT SIG          |
| 13        | LUGGAGE ANT +           | 33         | (ROOM ANT2+OPT)             |
| 14        | LUGGAGE ANT -           | 34         | (ROOM ANT2-OPT)             |
| 15        | ROOM ANT1+              | 35         | (ROOM ANT3+OPT)             |
| 16        | ROOM ANT1-              | 36         | (ROOM ANT3-OPT)             |
| 17        | BACK DOOR ANT+          | 37         | ASST DOOR ANT+              |
| 18        | BACK DOOR ANT-          | 38         | ASST DOOR ANT-              |
| 19        | DrDOOR ANT+             | 39         | (P Range SW OPT)            |
| 20        | DrDOOR ANT-             | 40         | ASST SELECT UNLOCK OUTPUT   |

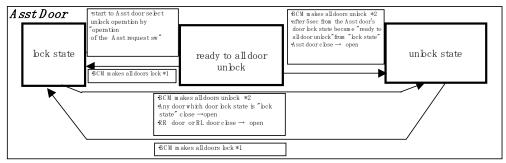
### 3. CASE SZE



#### 4. Function

i-key unit has 3 state of door bck state, bck state or ready to all door unbck or unbck state for Each door independently







- \*1 When i-key unit received can command"drdooractrinfo"="10" or "other dooractrinfo"="10" from BCM, I-key unit recognize BCM makes all doors bck
- \*2 When I-key unit received can command other door actrinfo "="01" from BCM, I-key unit recognize BCM makes all doors unbck

#### (2)0 peration by request SW

| door bck state*3         | Output when the request SW is operated |
|--------------------------|--|
| bck state                | operated door's select unlock output   |
| ready to all door un bck | alldoor un bck output                  |
| unlock state             | bck output                             |

\*3 "door bck state" of which that request SW operated

#### 1-2.0 peration by request SW (When the customer setting state is "SELECT NE UNLOCK"="1")

(1)D oor book state of each door

i-key unit has 2 state of door bck state," bck state" or "un bck" for all door

door bck state is defined following state chart



- \*1 When i-key unit received can command" drdooractrinfo"="10" or "other dooractrinfo"="10" from BCM, I-key unit received BCM makes all doors bck
- \*2 When Fkey unit received can command other door actrinfo = 01" from BCM, Fkey recognize BCM makes all doors unbck

#### (2)0 peration by request SW

| door bck state | Output when the request SW is operated |
|----------------|--|
| bck state      | alldoor un bek output                  |
| unbck state    | bck output                             |

#### 1-3.0 peration by i-key badge button When the customer setting state is "SELECTIVE UNLOCK"="0")

(1)0 peration by Fkey badge button

| operated button |        | Dr's door lock state    | output                    |
|-----------------|--------|-------------------------|---------------------------|
| bck button      |        | _                       | bck output                |
| unlock button   | first  | bck state               | Drdoorselect unbck output |
|                 |        | ready to alldoor unlock | alldoorunbck output       |
|                 |        | unbck state             | Drdoorselect unbck output |
|                 | second | _                       | alldoor unbck output      |

2) Judgement condition first time or second time operation of unlock button of I-key badge

Hkey badge command times state defined following state chart



ready to receive first time unlock command when I-key unit received unlock command from I-key badge during this state Fkey unit judge first time unbck command

ready to receive second time unlock command when I-key unit received unlock command from I-key badge during this st Fkey unit judge second times unbck command

- \*1 When i-key unit received can command" drador actrinfo"="10" or "other door actrinfo"="10" from BCM, Fkey unit recognize BCM makes all doors lock
- \*2 When Fkey unit received can command other door actrinfo"="01" from BCM, Fkey unit recognize BCM makes all doors un bock

#### 1-4.0 peration by i-key badge button (When the customer setting state is "SELECTIVE UNLOCK"="1")

(1)0 peration by Fkey badge button

| operated button | Dr's door lock state | output                 |
|-----------------|----------------------|------------------------|
| bck button      | _                    | bck output             |
| unlock button   | _                    | all door un bek output |

#### 1-5. Auto relock operation When the customer setting state is "AUTO RELOCK TMER Tre"="00" or"10")

(1)When Fkey unit output all door unbck output or any door select unbck output by request SW operation or Fkey badge ope Hkey unit clear the auto relock timer and restart to count auto relock timer

When the auto rebck timer become to Tre, Fkey unit output all door unbck output

2) Auto relock timer crear condition

Hkey unit clear the auto relock timer when at least one of following condition exist

any door cbse→open

•i-key unit receive can command"dr door actrinfo"="10" or "other door actrinfo"="10" from BCM push sw on or key sw on

(3) Auto relock operation cancel

When the customer setting state is "AUTO RELOCK TIMER Tre"="01", auto relock function doesn't work

1-7. Antikey lock in operation (When customer setting stete "ANTIKEY LOCK N"="0")

(1) When F-key unit receive can command "other door actrinfo"="10" from BCM while any door is opened,

Fkey unit serch the Fkey badge that registrated by room ANT and Luggage ANT.

When Fkey unit find the Fkey badge that registrated to own above serch, Fkey unit output all door unbck output

2)Antikey bck in operation cancel

When the customer setting state is "ANTIKEY LOCK N"="1", antikey bck in function doesn't work

#### 2. 0 perational condition

#### 2-1.0 prational condition of Request S₩

(1) Fkey unit accept the request sw operation (off→on), when all of following condition are satisfied, and then Fkey output according to door bck state condition

Ekey unit search the Ekey badge by out of vehicle ANT of which the door that request sw operated, and by room ANT and liggage ANT and then Fkey unit recognize different Fkey badge that found by out of vehicle ANT from Fkey badge that found by room ANT and liggage ANT (include Fkey find no Fkey badge by room ANT and liggage ANT)

KEY SW, PUSH SW, ACC SW, IGN SW and door SW, and customer setting state "LOCK/UNLOCK by I-KEY" condition are following

|         |      |                                       | "LOCK/UNL | OCK by FKEY"="0" | "LOCK/UNLOCK by FKEY"="1" |
|---------|------|---------------------------------------|-----------|------------------|---------------------------|
|         |      |                                       | ANY DO    | OR SW            |                           |
|         |      |                                       | 0 FF      | 0 N              |                           |
| KEY SW  | 0 FF |                                       | 0         | ×                | X                         |
|         | 0 N  |                                       | 0         | ×                | ×                         |
| PUSH SW | 0 FF |                                       | 0         | ×                | ×                         |
|         | 0 N  | 0 FF position warning is not operated | 0         | ×                | ×                         |
|         |      | 0 FF position warning is operated     | ×         | ×                | ×                         |
| ACC SW  | 0 FF |                                       | $\circ$   | ×                | ×                         |
|         | 0 N  | _                                     | 0         | ×                | ×                         |
| IGN SW  | 0 FF | _                                     | 0         | ×                | ×                         |
|         | 0 N  | _                                     | 0         | X                | X                         |

O peration of request sw is accepted

#### 2-2.0 prational condition of F-key badge button

#### 2-2-1.0 perational condition of Fkey badge bck button

(1)Fkey unit accept the Fkey badge bck operation (off→on), when all of following condition are satisfied, and then Fkey output door bck output

KEY SW, PUSH SW, ACC SW, IGN SW and door SW condition are following

| l       | ,    | bii, Bii bii did door bii oor         |      | OR SW |
|---------|------|---------------------------------------|------|-------|
|         |      |                                       | 0 FF | 0 N   |
| KEY SW  | 0 FF |                                       | 0    | X     |
|         | O N  |                                       | 0    | ×     |
| PUSH SW | 0 FF |                                       | 0    | X     |
|         | 0 N  | 0 FF position warning is not operated | 0    | ×     |
|         |      | 0 FF position warning is operated     | ×    | ×     |
| ACC SW  | 0 FF |                                       | 0    | ×     |
|         | O N  |                                       | 0    | ×     |
| IGN SW  | 0 FF |                                       | 0    | X     |
|         | 0 N  |                                       | 0    | ×     |

O peration of request sw is accepted

#### 2-2-2.0 perational condition of I-key badge unlock button

(1) Hey unit accept the Fkey badge bock operation (off-on), when all of following condition are satisfied, and then Fkey output according to Fkey badge command times state
KEY SW, PUSH SW, ACC SW, ISN SW and door SW condition are following

|         |      | DOOR SW |         |
|---------|------|---------|---------|
|         |      | 0 FF    | 0 N     |
| KEY SW  | 0 FF | $\circ$ | 0       |
|         | O N  | 0       | 0       |
| PUSH SW | 0 FF | $\circ$ | 0       |
|         | 0 N  | 0       | 0       |
| ACC SW  | 0 FF | $\circ$ | $\circ$ |
|         | 0 N  | $\circ$ | 0       |
| IGN SW  | 0 FF | 0       | 0       |
|         | O N  | $\circ$ | 0       |

O peration of request sw is accepted

<sup>×</sup> operation of request sw is not accepted

<sup>×</sup> operation of request sw is not accepted

imes operation of request sw is not accepted

#### 3.0 utput definition

| 3-1 | Doc | or hal | <u>, /11r</u> | hak | outnut |
|-----|-----|--------|---------------|-----|--------|
|     |     |        |               |     |        |

| DOOR DCK / UII DCK | ou pu   |
|--------------------|---|
| door bck output    | Fkey unit send can command "bck/unbck/trunk open request"="01" three times (event) when condition to output exist. This output procedure is finished after 1200m sec from output start or when can command from BCM |
|                    | "operation actr from smart" become "1" to "0"   |
|                    | If Fkey unit receive can command "operation actr from smart" become "1" to "0" during send bck/unbck/trunk open   |
|                    | request"="01", Fkey unit finish output after send "bck/unbck/trunk open request"="01" three times   |
| Drdoorselect       | Fkey unit send can command "bck/unbck/trunk open request"="01" three times (event) when condition to  |
| unlock output      | output exist. This output procedure is finished after 1200m sec from output start or when can command from BCM "operation actr from smart" become "1" to "0"  |
|                    | If Fkey unit receive can command "operation actr from smart" become "1" to "0" during send "bck/unbck/trunk open request"="01", Fkey unit finish output after send "bck/unbck/trunk open request"="01" three times  |
| Asst door select   | When condition to output exist, I-key unit do under operation   |
| un bck output      | ①tum Asst select unbck RLY on   |
|                    | ②after 50m s from ①, Fkey unit send can command "alldoor unbck request"="1" three times (event)   |
|                    | ③ Fkey unit turn Asst select unbck RLY off after 1200ms from can command "all door unbck request" set to 1 or when can command from BCM "operation actr from smart" become "1" to "0"                               |
|                    | ④ Fkey unit finish output procedure after 10m s from turn Asst select unbck RLY off   |
| Back door select   | Fkey unit set can command "accept back door open sw" to "1" (event)   |
| unbck output       | and after 300ms from set can command "accept back door open sw" to "1", this output procedure is finished   |
|                    | "accept back door open sw" is set to "0" when F-key unit receive can command "Dr door actroperate info"="10" or   |
|                    | "other door actroperate info"="10" (event)  |
| alldoor un bek     | Fkey unit send can command "alldoor unbck request"="1" three times (event) when condition to  |
| output             | output exist. This output procedure is finished after 1200m sec from output start or when can command from BCM  |
|                    | "operation actr from smart" become "1" to "0"   |
|                    | If Fkey unit receive can command "operation actr from smart" become "1" to "0" during send "all door unbck request"   |
|                    | ="1", Fkey unit finish output after send "all door un bck request"="1" three times  |

#### 3-2. Back door operation

- (1)Fkey unit set the can command "accept back door open sw" to"1" (event), when at least one of following condition exist back door select unlock output
- •Fkey unit receive can command "other door actroperate info"="01" (except Asst door select unlock output)
- Q)Fkey unit set the can command "accept back door open sw" to "0" (event), when receive can command "Dr door actroperate info"="10" or "other door actroperate info="10"

### 4.Answer back

according under teble F by unit set can command "answer back request" three times or turn on Br buzzer same timing as door bck output start

|                   |                                | command "answer back request"               | Dr buzzer                                  |
|-------------------|--------------------------------|---|--|
| request SW        | Drdoorselect un bck output     | when FLASH with REMOTE & F-Key=01orl1 "010" | when AnserBack with FKey unlock=0 2times   |
| operation         |                                | when FLASH with REMOTE & I-Key=00or10 "000" | when Anser Back with 1-Key unlock=1 0 FF   |
|                   | Asst door select unlock output | when FLASH with REMOTE & I-Key=01orl1 "010" | when Anser Back with 1-Key unlock=0 2times |
|                   |                                | when FLASH with REMOTE & I-Key=00or10 "000" | when Anser Back with 1-Key unlock=1 0 FF   |
|                   | Back door select unbck output  | when FLASH with REMOTE & F-Key=01or11 "010" | when AnserBack with FKey unbck=0 2times    |
|                   |                                | when FLASH with REMOTE & 1-Key=00or10 "000" | when Anser Back with 1-Key unlock=1 0 FF   |
|                   | all door un bek output         | when FLASH with REMOTE & I-Key=01orl1 "010" | when Anser Back with 1-Key unlock=0 2times |
|                   |                                | when FLASH with REMOTE & 1-Key=00or10 "000" | when Anser Back with 1-Key unlock=1 0 FF   |
|                   | door bck output                | when FLASH with REMOTE & I-Key=01orl1 "001" | when Anser Back with 1-Key lock=00or10 0FF |
|                   |                                | when FLASH with REMOTE & 1-Key=00or10 "000" | when AnserBack with 1-Key lock=01 1 time   |
| Fkey badge button | select un bck output           | when FLASH with REMOTE & F-Key=01or11 "010" | OFF  |
| operation         |                                | when FLASH with REMOTE & I-Key=00or10 "000" |  |
|                   | alldoorunbek output            | when FLASH with REMOTE & F-Key=01or11 "010" | OFF  |
|                   |                                | when FLASH with REMOTE & 1-Key=00or10 "000" |  |
|                   | door bek output                | when FLASH with REMOTE & F-Key=01or11 "001" | OFF  |
|                   |                                | when FLASH with REMOTE & 1-Key=00or10 "000" |  |
| other             | auto rebck output              | ″000″                                       | 0 FF                                       |
|                   | antikey bck in output          | "000"                                       | 0FF  |

FLASH with REMOTE & FKey: customer setting parameter
AnserBack with FKey unlock customer setting parameter
AnserBack with FKey lock customer setting parameter

Ðrbuzzer 1t**i**me∶125ms0N

2 times:  $125 \text{m s on} \rightarrow 125 \text{m s off} \rightarrow 125 \text{m s on}$ 

#### 11.waming

#### 11-1.Take out I-key badge warning

(1) take out F-key badge warning can work while following condition  $\mathbb D$  OK FLAG SET

②) take out Fkey badge warning never work while following condition D OK FLAG RESET

3)-1.take out Fkey badge warning start condition

(When custom er setting parameter "FOB TAKE OUT WAN TRIGER"="0")

When following condition is satisfied, Hkey unit start warning

PERM IT TO ENG START FLAG is set to reset caused following search result, while  $\mathbb D$  OK

①any door open→all door close search

②Push sw on and any door open search

3detect take out Fkey badge from window search

(only when customer setting parameter" DETECT FOB TAKEOUT FROM W NDOW "="0")

(4)-1.how to warning (When customer setting parameter"FOB TAKE OUT WAN TRIGER"="0")

|           | KEY                  | flick   | BUZZEI  | .\       |
|-----------|----------------------|---------|---------|----------|
|           | $\operatorname{red}$ |         | buzzer1 | drbuzzer |
| search(1) | 0                    | $\circ$ | X       | ○3sec    |
| search2   | 0                    | $\circ$ | X       | X        |
| search(3) | 0                    | 0       | ○3sec   | X        |

Drbuzzer 10Hz 30%duty

3)-2.take out Fkey badge warning start condition

(When custom er setting parameter "FOB TAKE OUT WAN TRIGER"="1")

When following condition is satisfied, Fkey unit start warning

PERM IT TO ENG START FLAG is set to reset caused following search result, while  $\mathbb D$  OK

①any door open→all door close search, while shift position is not P

2) Push sw on and any door open search

3 detect take out Fkey badge from window search

(only when custom er setting param eter"DETECT FOB TAKEOUT FROM W NDOW "="0")

(4) shift position is out of "p" search

⑤Dr door open → Dr door close search, while shift position is P

(4)-2.how to waming (When customer setting param eter"FOB TAKE OUT WAN TRIBER"="1")

|           | KEY     | flick      | BUZZEI  | R         |
|-----------|---------|------------|---------|-----------|
|           | red     |            | buzzerl | dr buzzer |
| search(1) | $\circ$ | 0          | ×       | ○3sec     |
| search2   | 0       | 0          | X       | X         |
| search(3) | 0       | 0          | ○3sec   | X         |
| search4   | 0       | $\circ$    | ○3sec   | X         |
| search(5) | $\cap$  | $\bigcirc$ | X       | ○3sec     |

Drbuzzer 10Hz 30%duty

(5) take out Fkey badge warning stop condition

When at least one following condition is satisfied, Hkey unit stop warning

PERM IT TO ENG START FLAG is set

•D OK FLAG is reset

#### 11-2.0 FF position warning

(1)0 FF position warning start condition

When following condition is satisfied, Fkey unit start warning

after 1 sec from ACC sw on→off, while D OK FLAG SET and IGN sw off

|          | withoutmechanicalkey |          |      | with mechanical key |      |      |         |     |      |     |
|----------|----------------------|----------|------|---------------------|------|------|---------|-----|------|-----|
| IGN knob | LOCK                 | 0 FF     | ACC  | IG N                | ST   | LOCK | 0 FF    | ACC | IG N | ST  |
| PUSH SW  | 0 FF                 | 0 N      | 0 N  | 0 N                 | 0 N  | 0 FF | 0 N     | 0 N | 0 N  | 0 N |
| KEY SW   | 0 FF                 | 0 FF     | 0 FF | 0 FF                | 0 FF | 0 N  | 0 N     | O N | O N  | 0 N |
| waming   | X                    | →× •() ← | X    | X                   | X    | X    | →× •× ← | X   | X    | X   |

(2) how to warning

|               | KNOB       | 点滅      | BUZZER  |           |
|---------------|------------|---------|---------|-----------|
|               |            | フラグ     | buzzer2 | dr buzzer |
| start waming  | $\bigcirc$ | $\circ$ | 0       | X         |
|               |            |         | 800ms   |           |
| Drdooropen    | 0          | $\circ$ | ×       | ○3sec     |
| →Drdoor       |            |         |         |           |
| close, during |            |         |         |           |
| off position  |            |         |         |           |
| wamingon      |            |         |         |           |

Drbuzzer 10Hz 30%duty

(3)0 FF position warning stop condition

When at least one of following condition is satisfied, Hkey unit stop warning

- ACC sw on
- •1GN sw on
- •ID OK FLAG RESET

#### 11-3. IGN knob not bock position warning

- (1) IGN knob not bock position warning start condition
  - When all of following condition is satisfied, Fkey unit start warning
  - •D OK FLAG SET
  - Dr door open
  - •IGN sw off
- 2) how to warning

Fkey send can command "key waming buzzer"="1" to METER

- (3) IGN knob not lock position warning stop condition
  - When at least one of following condition is satisfied, Hkey unit stop warning
  - •ID OK FLAG RESET
  - **D**rdoorcbse
  - •IGN sw on

#### 11-4.door bck operation is not done warning

(1)door bck operation is not done warning start condition

When all of following conditions are satisfied, Fkey unit make warning

• Fkey unit search the Fkey badge by out of vehicle ANT of which the door that request sw operated, and search by room ANT liggage ANT, and then Fkey unit recognize different Fkey badge that found by out of vehicle ANT from Fkey badge that found by room ANT and liggage ANT (include Fkey find no Fkey badge by room ANT and liggage ANT)

door bck state of the door that request sw operated is "unbck state"

any door open or off position warning on

When all of following conditions are satisfied, I-key unit make warning, too during off position warning on

• Hkey unit receive bck command from Hkey badge

2)how to waming

Hey unit turn on Dr buzzer for 2sec (10Hz 30%Duty)

#### 12. Indicator lam p 12-1.KEY BLUE

```
(1)LIGHT IN G
```

·lighting condition

When all of following conditions are satisfied, Fkey unit turn key blue indicator on. (event)

(if key blue ind. Turn off once, Fkey unit never turn key blue indicator on without new  $\mathbb D$  OK FLAG RESET $\rightarrow$ SET trigger)

•D OK FLAG RESET→SET

KEY RED is not lighting and not blinking

KEY BLUE is not blinking

·Turn off condition

When at least one of following condition exist, Fkey unit turn key blue indicator off (event)

· DOK FLAG RESET

ACC sw on

KEY RED lighting or blinking condition exist

KEY BLUE blinking condition exist

#### (2)BLNKNG

#### blinking condition

When all of following conditions are satisfied, Fkey unit makes key blue indicator blinking. (event)

·when Fkey unit judged Fkey badge's BAT is bw voltage

When Heavy unit received BAT low voltage signal 5times continuously from same Heavy badge,

Fkey unit judged Fkey badge's BAT is low voltage)

•**I**G N O N

·Turn off condition

When at least one of following condition exist, Fkey unit turn key blue indicator off (event)

 ${\tt after\,30sec\,\,from}\,\,\,{\rm I\!G\,N}\,\,{\rm sw}\,\,{\rm on}$ 

· IGN sw off

#### 12-2.KEY RED

(1)LIGHTNG-1 (search resultNG)

·lighting condition

When all of following conditions are satisfied, I-key unit turn key red indicator on. (event)

·PUSH SW ON

•the result of search when PUSH sw off →on is NG

KEY SW OFF

·Tum off condition

When at least one of following condition exist, Fkey unit turn key blue indicator off (event)

PUSH SW OFF

KEY SW ON

 $\mbox{(2)}L\mbox{\sc B}\mbox{\sc HTNG-2}$  (bub check) (it shoud be synchronized with knob indicator's bub check)

·lighting condition

 $\mathbb{E}_{N}$  off  $\rightarrow$  on

·Tum off condition

When at least one of following condition exist, Fkey unit turn key red indicator off (event)

after 2sec from BN off →on (except strg bck unit is not registrated with Fkey unit)

•IGN OFF

#### (3)BLNKNG

blinking condition

When all of following conditions are satisfied, Hkey unit makes key red indicator blinking. (event)

Take out Fkey badge waming on

KEY RED is not lighting

·Turn off condition

When at least one of following condition exist, Fkey unit turn key blue indicator off (event)

Take out Fkey badge waming off

KEY RED lighting condition exist

#### 12-3. KNOB IND

(1)LEHTNG (bub check) (it shoud be synchronized with key red indicator's bub check)

·lighting condition

IGN off → on

·Tum off condition

When at least one of following condition exist, Fkey unit turn knob indicator off (event)

after 2sec from  $\mathbb{G} \, \mathbb{N}$  off  $\to$ on (except strg bck unit is not registrated with Fkey unit)

•IGN OFF

#### (2)BLNKNG

blinking condition

When all of following conditions are satisfied, Hkey unit makes knob indicator blinking. (event)

OFF position warning on

KNOB IND is not lighting

#### ·Turn off condition

When at least one of following condition exist, Fkey unit turn key blue indicator off (event)

OFF position waming off

KNOB ND lighting condition exist

12-4.output definition

| A GO G C G C I I I I I I I I I I I I I I I I       |   |
|--|---|
| KEY BLUE lighting                                  | Fkey unit set CAN command "KEY indicator blue" to "1"   |
| KEY BLUE blinking                                  | Fkey unit set CAN command "KEY indicator blue" and "flick indecator key warning" to "1" same timing |
| KEY RED lighting                                   | Fkey unit set CAN command "KEY indicator red" to "1"  |
| KEY RED blinking                                   | Fkey unit set CAN command "KEY indicator red" and "flick indecator key warning" to "1" same timing  |
| KNOB ND lighting                                   | Fkey unit set CAN command "Knob indicator on" to "1"  |
| KNOB IND blinking                                  | Fkey unit set CAN command "Knob indicator on" and "flick indecator knob warning" "1" same timing    |
| take out Fkey badge<br>waming room buzzer          | Fkey unit set CAN command "buzzerl on request" to "1"   |
| OFF position warning<br>room buzzer                | Fkey unit set CAN command "buzzer2 on request" to "1"   |
| GN knob not bck<br>position warning<br>room buzzer | Fkey unit set CAN command "KEY warning buzzer" to "1"   |