REMOCON Duplicator HCD900(Version 3001.18)
Operation manual

HCD-900 Accessories

HCD-900 Console

6Micro USD Duplicating & Updating Cable (Attached)
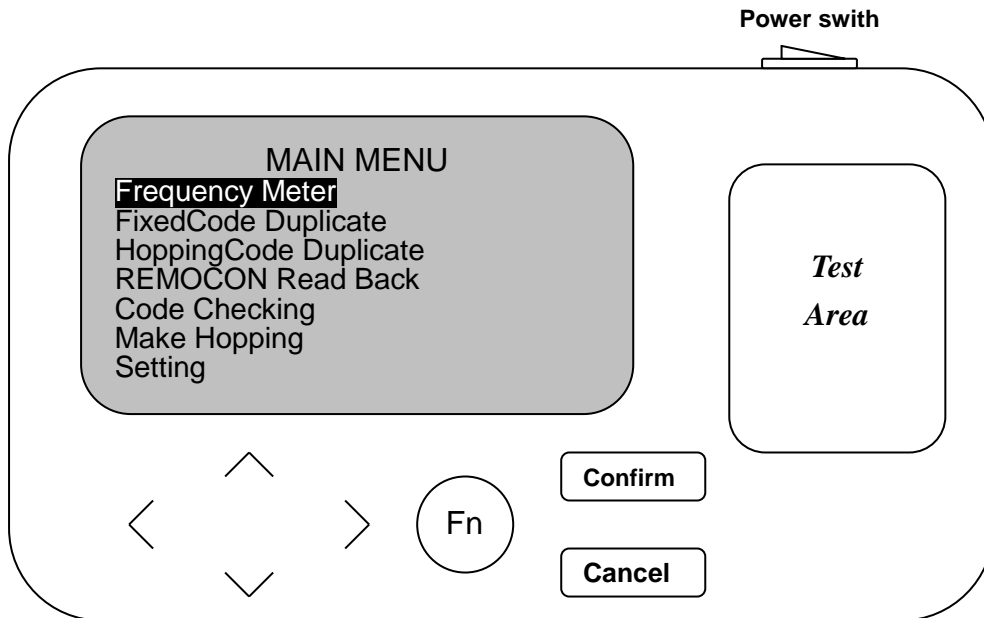
AC/DC Power Adaptor(attached)
120V or 220V

6P connector Duplicating Cable (Optional)

Frequency Tuning Bar (Optional)

Power swith

1. Plug in the power adapter into power outlet and push power switch on.(Fig.1)
   Caution: Do not put the duplicator on the metal surface while operating, and keep interference(mobile phone, router....) away while operating.
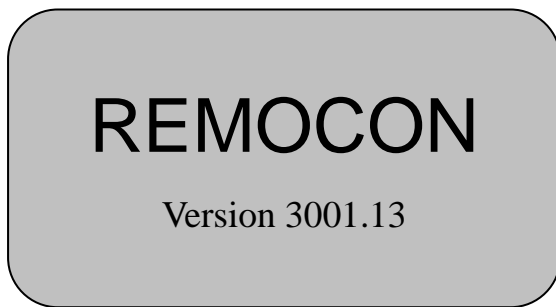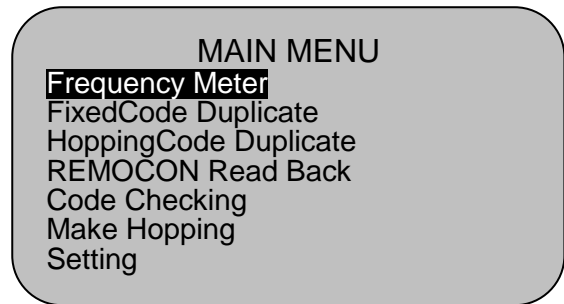2. LCD screen displays Main Menu.(Fig. 2)

Fig. 1

Fig.2

Remark: Press ∧ & ∨ to move highlight to desired mode and press Confirm. If you would like to return to MAIN MENU after entering, press Cancel .

3. Function instruction
   3-1. Frequency Meter (Fig. 3)
      3-1-1. Func.: Read transmitting frequency from remote controls.
      3-1-2. Hold the remote control one hand near the *Test Area* of HCD900, and press any button of the remote control. The "Measuring" keeps flashing and "signal strength bar" changes while reading the frequency; Slightly move the position of the remote control until you get the longest signal bar to ensure you can get most correct frequency.(Fig. 4)
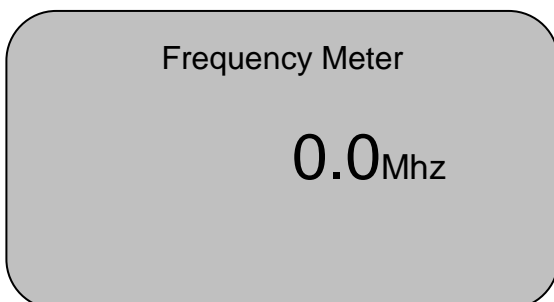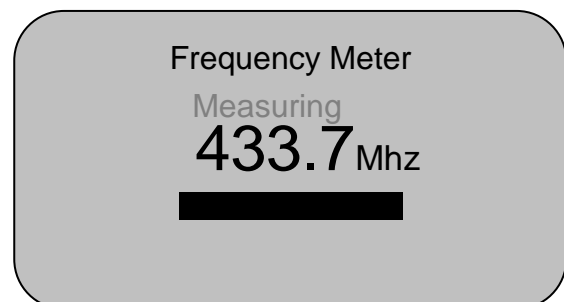

Fig. 3

Fig. 4

2

3-1-3. If there are some high frequencies around you to interfere the reading of the frequency, you can change your Meter to low frequency Mode(LCD displays "LF" on screen, Fig.5) by pressing "Fn" and "Confirm" at the same time. Under Low frequency mode, it will only detect frequency under 600MHz.
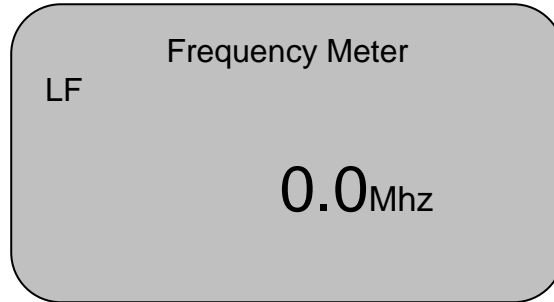
```
                 Frequency Meter
     LF


                    0.0Mhz
```

Fig. 5

3-2. Fixed Code Duplicate: No.1 to No. 5 are for frequency band 1, and No. 6 to No.10 are for frequency band 2(for dual frequency remotes).

```
          FixedCode Duplicate
     1   2   3   4   5   6   7   8   9   10

        10 key spaces remain

              Ready
```
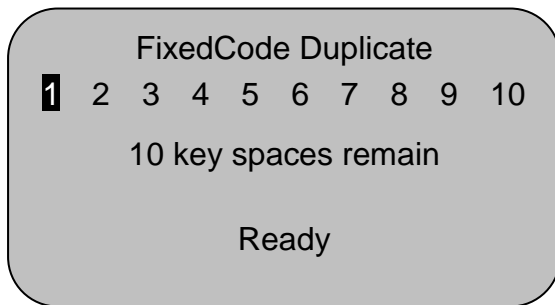
Fig. 6

3-2-1. Func.: Read and duplicate fixed code from original remote control into REMOCON remote control. It provides 10 channels for programming. (Fig. 6)
3-2-2. Places original transmitter near the *Test Area* of HCD900.

```
          FixedCode Duplicate
   433.9   B10   Type
     1   2   3   4   5   6   7   8   9   10
     1
          9 key spaces remain
              Processing
              Ready
```
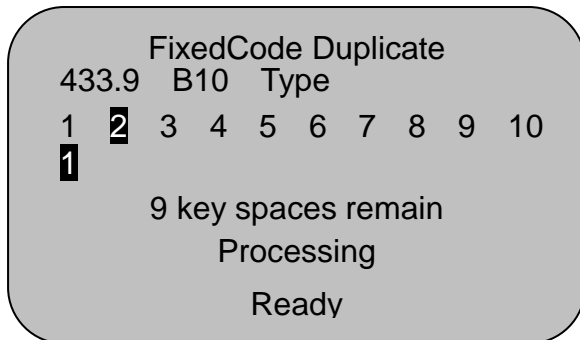
Fig. 7

3-2-3. Press and holding 1st button of original remote control, LCD screen displays "Processing". Release the button when you hear a beep. Now the frequency and type of remote of original remote is shown above the channels, and the code of the 1st button of original remote has been read successfully.(Fig. 7)

```
          FixedCode Duplicate
   433.9
     1   2   3   4   5   6   7   8   9   10
     1   1   1   1
        6 key spaces remain

              Ready
```
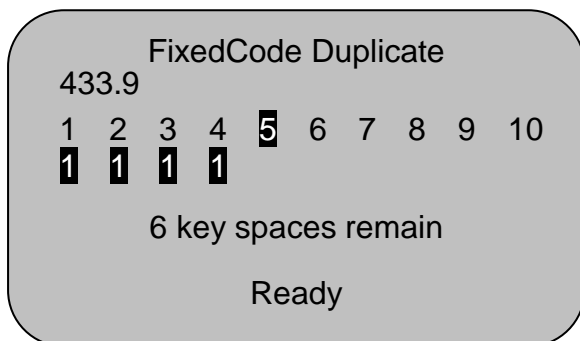
Fig. 8

3-2-4. Repeat step 3-2-3. until all buttons of original remote control have been read by HCD900.(Fig. 8)
[Note: for dual frequency remotes RMC-552, RMC-556 & RMC-558: channel 1 to 5 are for buttons 1 to 5 when the switch position is "Up", and channels 6 to 10 are for buttons 1 to 5 when the switch position is "Down"; for RMC-558C: opposite to above]
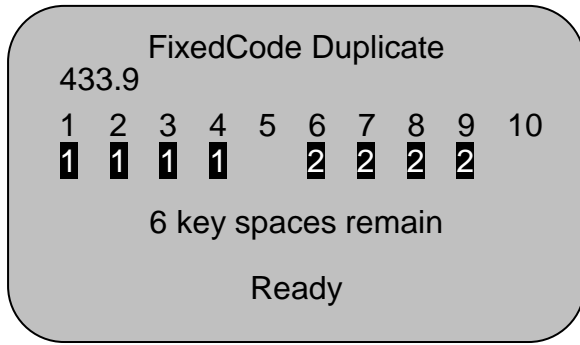
```
     FixedCode Duplicate
433.9
1   2   3   4   5   6   7   8   9   10
1   1   1   1       2   2   2   2

      6 key spaces remain

            Ready
```
Fig. 9

3-2-5. (Only for dual frequency remote)
After all keys of 2 remotes with different frequencies has been read by HCD-900, press ⟨ & ⟩ to move highlight to channel 1 ~ 5 and channel 6 ~ 10 and to choose the right frequency bands on REMOCON remote by pressing ⋀ & ⋁ (Fig. 9)

3-2-6. Press Confirm to enter duplicating mode, the LCD displays as Fig. 10

3-2-7. Connects B or C type REMOCON remote control to HCD900 by using attached duplicating cable.

```
      FixedCode Duplicate
433.9
1   2   3   4   5   6   7   8   9   10
1   1   1   1
      6 key spaces remain

   Please Connect Remote
```
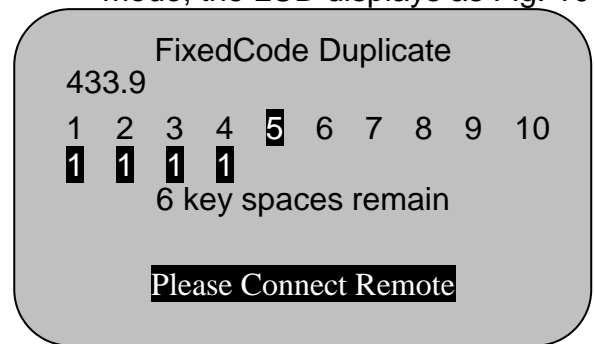Fig. 10

3-2-8. Press Confirm to program the code into REMOCON remote control. LCD displays duplication result as **Programming Success** or **Programming Failure**.(Fig. 11)

Notice: if the original remote belongs to C type but you connect a B type REMOCON remote, the LCD screen will display "Please Use C Remote" and please connect a C type REMOCON remote and retry.
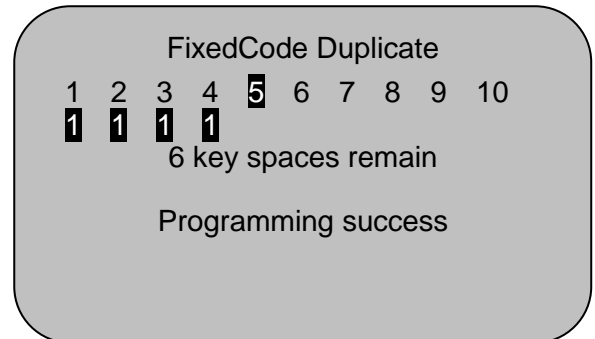
```
      FixedCode Duplicate
1   2   3   4   5   6   7   8   9   10
1   1   1   1
      6 key spaces remain

    Programming success
```
Fig.11

3-3. Hopping Code Duplicate:(Fig. 12)

```
      HoppingCode Duplicate
1   2   3   4   5   6   7   8   9   10

   10 key spaces remain


   Please enter 1st code
```
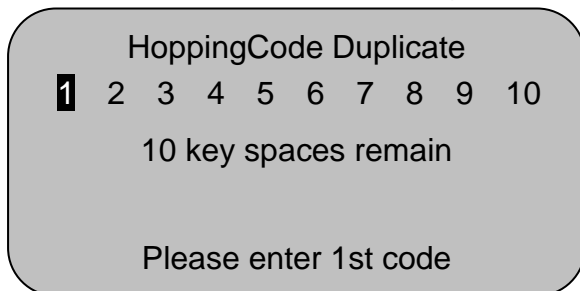Fig. 12

3-3-1. Func.: Read and duplicate hopping code from original remote controls into REMOCON remote controls.

Attention: Some brands of hopping code remote controls were required to input "seed code" before going to next step. To input "seed code", please follow

the steps below:

a. Touch Fn & $\vee$ simultaneously.

b. LCD displays "Receiving seed code".(Fig. 13)

c. You can probably find the seed code button on the rear of original remote control. It might be hidden in an eyelet. If so, you need a acicular object to poke it for transmitting the seed code.

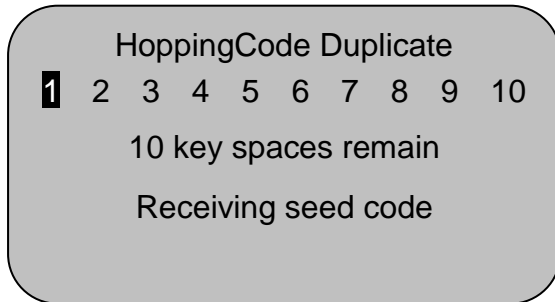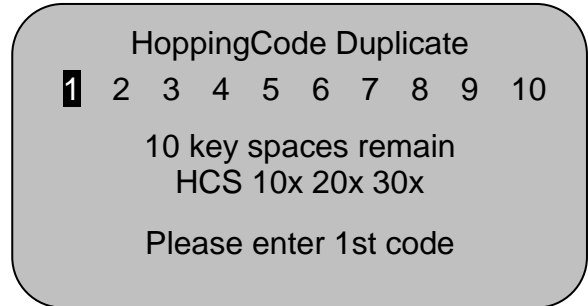d. The LCD displays (Fig. 14) when the "seed code" was received.

HoppingCode Duplicate

1 2 3 4 5 6 7 8 9 10

10 key spaces remain

Receiving seed code

Fig. 13

HoppingCode Duplicate

1 2 3 4 5 6 7 8 9 10

10 key spaces remain
HCS 10x 20x 30x

Please enter 1st code

Fig. 14

HoppingCode Duplicate
433.9

1 2 3 4 5 6 7 8 9 10

10 key spaces remain
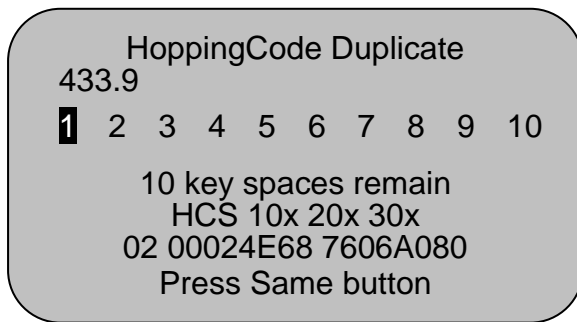HCS 10x 20x 30x
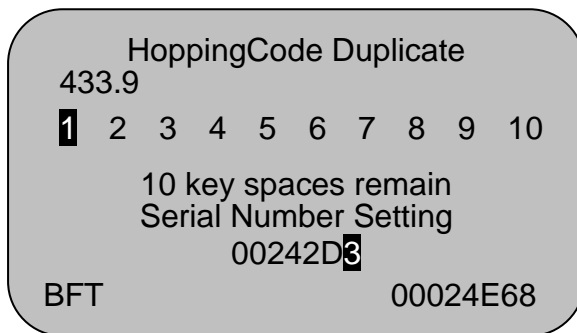02 00024E68 7606A080
Press Same button

Fig. 15

3-3-2. Place the original remote control near the *Test Area* of HCD900.

3-3-3. Press and holding 1st button of original remote control, LCD displays a serial number(Fig. 15). (Each remote control has its own series number).

HoppingCode Duplicate
433.9

1 2 3 4 5 6 7 8 9 10

10 key spaces remain
Serial Number Setting
00242D**3**

BFT   00024E68

Fig. 16

3-3-4 Press and holding 1st button of original remote control again. The LCD displays as Fig. 16. It will create a new serial number automatically for the REMOCON remotes and you can also change it to whatever number you need. The number on the bottom right corner is the serial number of the original remote.

Notice: Don't set up the same serial number with the original remote; Otherwise, you will have problem using 2 remotes at the same time(The original one will be out of sync with the receiver).

3-3-5. Press `Confirm` , the LCD displays as Fig. 17. Now the 1st button has been stored successfully
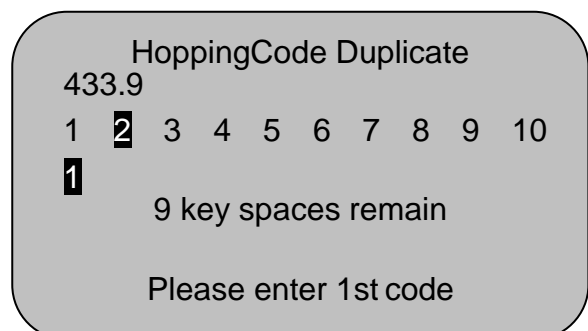
Fig. 17

HoppingCode Duplicate
433.9

1 **2** 3 4 5 6 7 8 9 10
1

9 key spaces remain

Please enter 1st code

3-3-6. Press and holding 2nd button of original
    remote control, LCD displays as (Fig. 18)
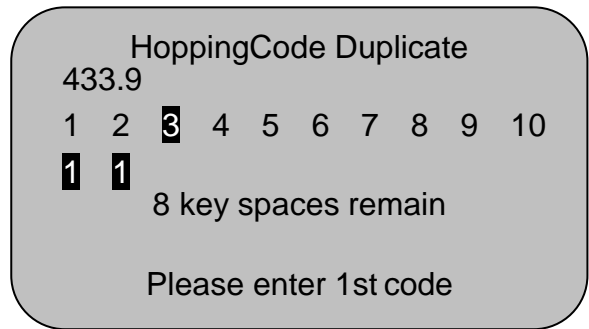
3-3-7. Repeat step 3-3-6. to store other buttons
    of original remote control.

```
┌─────────────────────────────────┐
│     HoppingCode Duplicate       │
│  433.9                          │
│  1  2  3  4  5  6  7  8  9  10   │
│  1  1                           │
│       8 key spaces remain       │
│                                 │
│      Please enter 1st code      │
└─────────────────────────────────┘
```
Fig. 18

3-3-8. If the frequency that HCD-900 detects(LCD displays on the upper left corner) is not
correct, you can revise the frequency for one
button or all buttons as below:

3-3-8-1. Move the highlight to the channel that
    you would like to revise the frequency,
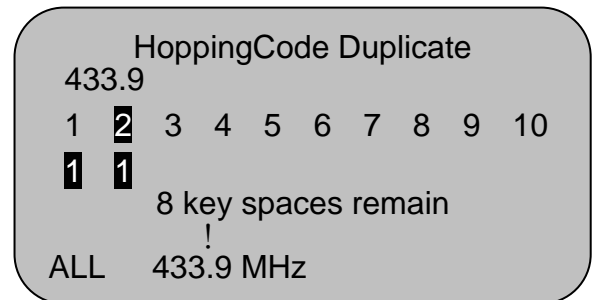   and then press Fn and $\rangle$ at same time.
    (Fig. 19)

```
┌─────────────────────────────────┐
│     HoppingCode Duplicate       │
│  433.9                          │
│  1  2  3  4  5  6  7  8  9  10   │
│  1  1                           │
│       8 key spaces remain       │
│                !                │
│  ALL    433.9 MHz               │
└─────────────────────────────────┘
```
Fig.19

3-3-8-2. Press $\langle$ and $\rangle$ to move the " ! " to
    different position above the frequency
    and press $\wedge$ and $\vee$ to adjust the
    value of the frequency.(Fig. 20)

```
┌─────────────────────────────────┐
│     HoppingCode Duplicate       │
│  433.9                          │
│  1  2  3  4  5  6  7  8  9  10   │
│  1  1                           │
│       8 key spaces remain       │
│                !                │
│  ALL    432.9 MHz               │
└─────────────────────────────────┘
```
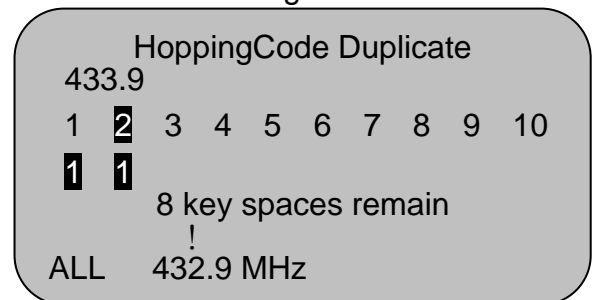Fig. 20

3-3-8-3. Move " ! " to the last position and you
    can select to revise frequency for only
    one button(the channel where the highlight
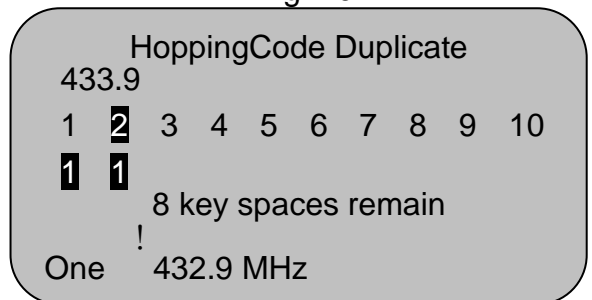   is) or all buttons.(Fig. 21)

```
┌─────────────────────────────────┐
│     HoppingCode Duplicate       │
│  433.9                          │
│  1  2  3  4  5  6  7  8  9  10   │
│  1  1                           │
│       8 key spaces remain       │
│      !                          │
│  One    432.9 MHz               │
└─────────────────────────────────┘
```
Fig. 21

3-3-8-4. Press Confirm then the revision of frequency
    is done.

**Attention: You can also revise the frequency by the same way in FixedCode
Duplicate Mode.**

3-3-9. Connect the H series or BHS/CHM/CHML new series REMOCON remote control to
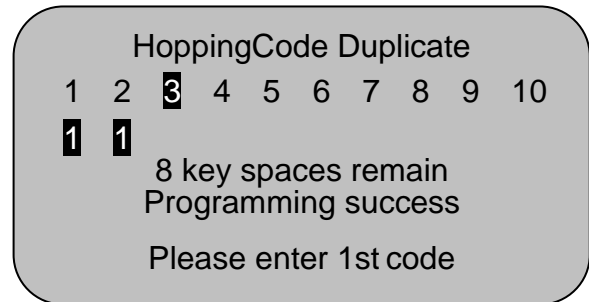   HCD900 by using attached duplicating cable.
Notice: 1)if the original rolling code remote uses new IC format that H3/BHS/CHM does not

support, the LCD screen will display "Please Use CHMLRemote" so please connect a H4 IC remote or CHML REMOCON remote and retry.
2) H4 IC remotes(RMC-275HSⅡ, RMC-555HSⅡ, RMC-105HSⅡ-2K)only work with HCD-900 newer than version 3001.16

3-3-10. Press Confirm to program the code into REMOCON remote control.

3-3-11. LCD displays duplicating result as **Programming Success** or **Programming Failure**. (Fig. 22)

```
           HoppingCode Duplicate
    1   2   3   4   5   6   7   8   9   10
    1   1
           8 key spaces remain
           Programming success

         Please enter 1st code
```

3-4. REMOCON Read Back (For Fixed Code remote)

Fig. 22

3-4-1 Func.: To read the code from REMOCON remote control, and reduplicate the code into other REMOCON remote controls.

```
            MAIN MENU
    Frequency Meter
    FixedCode Duplicate
    HoppingCode Duplicate
    REMOCON Read Back
    Code Checking
    Remote Report
```
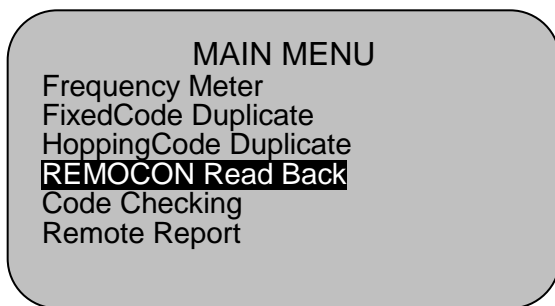
Fig. 23

3-4-2. Be sure to connect REMOCON remote control(existing code) to HCD900 by using attached duplicating cable before entering "REMOCON Read Back" mode. (Fig. 23)
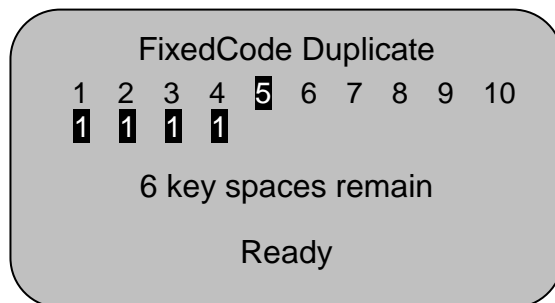
```
           FixedCode Duplicate
    1   2   3   4   5   6   7   8   9   10
    1   1   1   1
           6 key spaces remain

              Ready
```

Fig. 24

3-4-3. Move highlight to "REMOCON Read Back" mode, press Confirm to start reading. The LCD displays as Fig. 24.

3-4-4. Replace the remote control by a new REMOCON remote control and touch Confirm. LCD displays duplication result as **Programming Success** or **Programming Failure.**

3-5. Code Checking(Fig. 25)

```
            Code Checking

       Please Enter 1st Code



       Press cancel To Exit
```
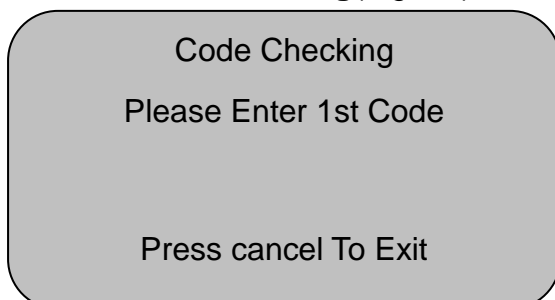
Fig. 25

3-5-1. Func.: There are 2 functions in this mode: First is to verify whether the fixed code duplication has been done successfully or not; Second is to identify your existing remote control is fixed code or hopping

7

```
        Code Checking

      Press Same button



     Press cancel To Exit
```

Fig. 26

```
        Code Checking

     Please Enter 1st Code
            99.2
        Percent Matched
      Press cancel To Exit
```
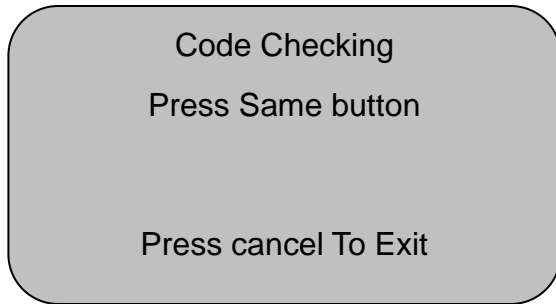
Fig. 27

3-5-2. **To verify if the duplication has been done successfully**, press 1st button of original fixed code remote control till you hear a beep.

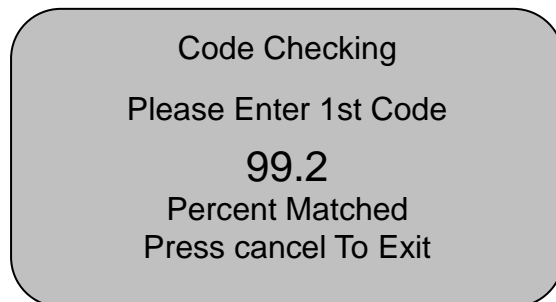3-5-3 The LCD appears "Processing" and goes to Fig. 26.

3-5-4. Press 1st button of the duplicated remote, HCD900 starts to check the contrast, and then shows the similarity percentage.(Fig. 27)

3-5-5. Follow steps 3-5-2, 3-5-3 &3-5-4 to verify other buttons.

Attention: The qualified duplication requires at least 90% similarity.

3-5-6. **To identify whether the remote control is fixed code or hopping code**, press 1st button of the remote control. (Fig. 25)

3-5-7. The LCD appears "Processing" and goes to Fig. 26.

3-5-8. Press the same button again. HCD900 starts to check the contrast, and then shows the similarity percentage.(Fig. 27)

3-5-9. Hopping code remote control will show 0.0 percent matched.

3-6. Make Hopping(for Hopping Code remote)

3-6-1. Func.: Regenerate Rolling code remote brands without the existing of original rolling code remote controls. (This function can only be used to create original remotes with *HCSxxx IC formats* and original remotes *without seed code*; if you would like to regenerate original remote brands with other IC format and original remotes *with seed code*, please use our HCD-900line).
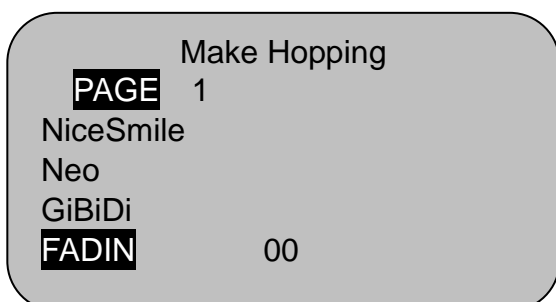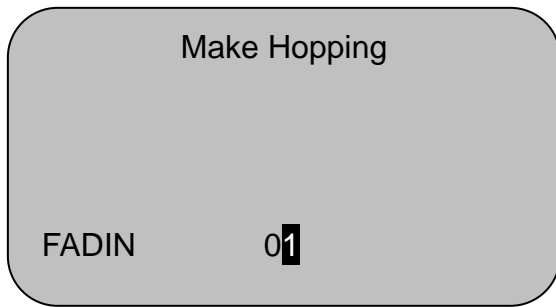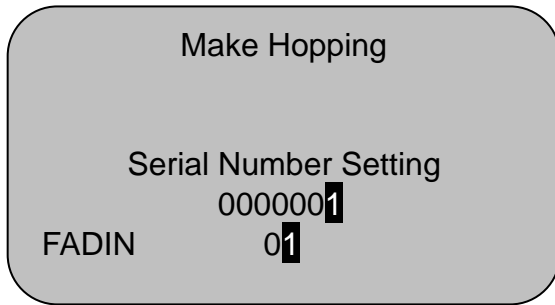
```
        Make Hopping
    PAGE    1
    NiceSmile
    Neo
    GiBiDi
    FADIN        00
```

3-6-2. Press ⟨ and ⟩ to choose PAGE or 1 so that you can select brand "Page by page" or" brand by brand". (Fig. 28)

Fig. 28

```
        Make Hopping




FADIN          01
```
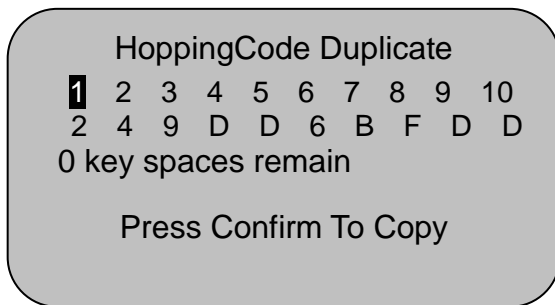
3-6-3. Press $\rangle$ to enter the Reference
 Number Setting.
 Press $\wedge$ and $\vee$ to set up the
 distributor code. (Only need to
 set up for certain brands) (Fig. 29)

Fig. 29

```
        Make Hopping


     Serial Number Setting
          0000001
FADIN          01
```

Fig. 30

3-6-4. Press Confirm to enter the
 Serial Number Setting.
 Press $\wedge$ and $\vee$ to set up the
 serial number. (Fig. 30)

```
   HoppingCode Duplicate
 1   2   3   4   5   6   7   8   9   10
 2   4   9   D   D   6   B   F   D   D
 0 key spaces remain

     Press Confirm To Copy
```
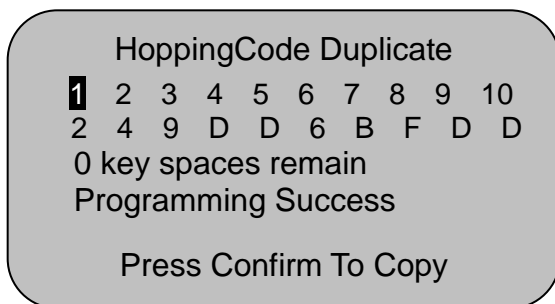
Fig. 31

3-6-5. Press Confirm to ready to copy.
 (Fig. 31)
Notice: If you would like copy to a
CHM or CHML multi-frequency remote
please ensure to set up the frequency
first by pressing Fn and $\rangle$ simultaneously
 Connect H series or BHS/CHM
 /CHML REMOCON remote control
 to HCD-900 by using attached
 duplicating cable.

```
   HoppingCode Duplicate
 1   2   3   4   5   6   7   8   9   10
 2   4   9   D   D   6   B   F   D   D
 0 key spaces remain
 Programming Success

     Press Confirm To Copy
```

Fig. 32
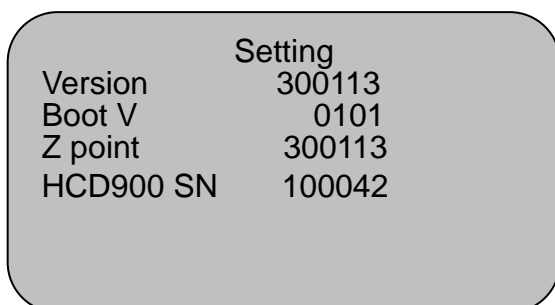
3-6-6. Press Confirm to program the
 code into REMOCON remote
 control. LCD displays duplication
 result as **Programming Success** or
 Programming Failure.(Fig. 32)

3-7. Setting

 3-7-1. Func.: See relative information or change the setting.

```
          Setting
Version          300113
Boot V             0101
Z point          300113
HCD900 SN        100042
```

3-7-2. You can see the version number
 and production serial number
 of your HCD-900 after entering
 setting mode.(Fig. 33)

9

.
Fig. 33

```
              Setting
>HOPP new SN        Random3
 display mode        Button
 Language              ENG
 Auto read Freq         ON

```
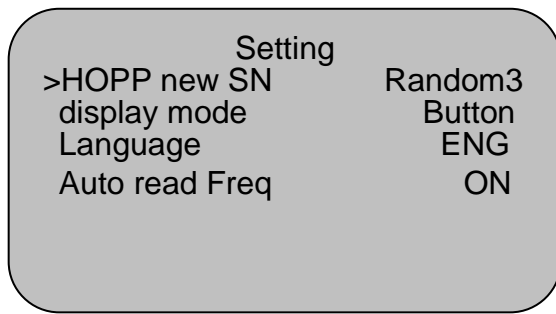
Fig. 34

3-7-3. Press ∨ and you will enter the setting page as Fig. 34. Press ∧ and ∨ to select the project and press ＞ to change the parameter

＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊REMARK＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊

1. If the REMOCON remotes you prepare to copy the original remotes uses **3V battery**, please connect it to our HCD-900 by duplicating cable in advance before you enter FixedCode Duplicate mode or HoppingCode Duplicate mode.

2. **How to transmitting Seed Code from a REMOCON remote** after copy:
   1) If there is only one Seed code for this remote: Press any 3 buttons at the same time.
   2) If there are respective Seed codes for each button: Press the rest 3 buttons.
      Example: If you would like to transmit the Seed code for button 1, press button 2, 3 and 4 at the same time; If you would like to transmit the Seed code for button 2, press button 1, 3 and 4 at the same time.
   3) Only channel 1 ~ 4 support Seed code, so don't copy the remotes with Seed code to Channel 5 ~ 10.

3. **Special rule for RMC-255CHM & RMC-255CHML**:
   If you would like to copy both fixed code remotes & rolling code remotes into RMC-255CHM or RMC-255CHML by HCD-900, please ensure to copy fixed code remotes first(in FixedCode Duplicate mode) and then copy rolling code remotes(in HoppingCode Duplicate mode). If you do it reversely, the rolling code programmed will be covered by fixed code you copy later.

4. **After copy, how to trigger the "One button self-programming" function for RMC-275HSⅡ, RMC-555HSⅡ & RMC-105HSⅡ-2K to program them to the receiver?**
   Keep pressing the button you would like to program to the receiver until you hear a "Click" sound from the receiver. After you keeps pressing the button for around 7 seconds, the LED will start to flash, do not release the button until the whole programming process is finished.

5. **How to transmit channel 5 ~ 10 by pressing the combination buttons of REMOCON remote:**
Channel 5: by pressing button 3 & button 4 simultaneously
Channel 6: by pressing button 1 & button 2 simultaneously
Channel 7: by pressing button 1 & button 3 simultaneously
Channel 8: by pressing button 1 & button 4 simultaneously

Channel 9: by pressing button 2 & button 3 simultaneously
Channel 10: by pressing button 2 & button 4 simultaneously

Updated at Jan. 31, 2019