



## AE 2990 AFS Handheld Multi Mode Features

### 1. Multi Mode Channel Conversion:

#### A. Codes and its Corresponding Mode Channel

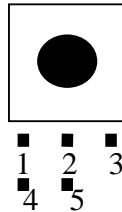
<b>Code0:</b>	<b>HAM BANDS 10 + 12 m (AM/FM/SSB 4W)</b>
<b>Code1:</b>	<b>HAM BAND 10 m (AM/FM/SSB 4W)</b>
<b>Code 2:</b>	<b>HAM BAND 12 m (AM/FM/SSB 4W)</b>
<b>Code 3:</b>	<b>450ch. (AM/FM/SSB 4W)</b>
<b>Code 4:</b>	<b>450ch. (AM/FM/SSB 4W "0" Raster 0 Raster)</b>
<b>Code d:</b>	<b>Germany (80 FM4W; 40 AM 1W and SSB 4W).</b>
<b>Code EU:</b>	<b>40AM 1W, 40 FM/SSB 4W</b>
<b>Code E:</b>	<b>40Ch. AM/FM/SSB 4W</b>
<b>Code PL:</b>	<b>40ch. AM/FM/SSB 4W "0" Raster</b>
<b>Code U:</b>	<b>UK; U1 from 1 to 40; U2 from 1 to 40</b> <b>Frequency display is not necessary for UK mode.</b>
<b>Code US:</b>	<b>40ch. AM/SSB 4W (no FM mode allowed in the USA)</b>

#### B. Channel Conversion option for CB: Codes: d, EU, E, PL, U and US only

- Turn **Off** the unit (Volume switch off )
- Press **ML/MS** button & hold
- Turn **ON** the unit
- Release **ML/MS** button
- The display will show the code: d, EU, E, PL,U and US  
just press the **UP/DOWN** buttons to select the desired code.
- Turn **OFF** the unit to set the selected code
- Turn **ON** the unit to operate on the selected code

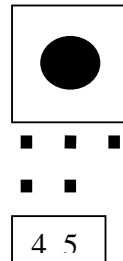
### C. Channel conversion for radio amateurs: codes 1 to Code: US

- **Turn the unit OFF**
- **Temporarily remove the rubber cover above the PTT button.**  
Below the PTT switch that found inside the PTT button there are three terminals provided for possible conversions. Terminal 1, 2, 3, 4 and 5



- If installed, delete the soldered jumper connection between terminals 2 and 3.
- By using a tweezers short terminal 1&2 and turn on the unit at the same time. After power on, release the short circuit across terminals 1&2 again.
- Using the **UP/DOWN** button select the desired code (between Code 1 to code US)
- After selecting the desired code turn **OFF** and then **ON** the unit to operate on the selected code.

### C: Locking the radio to any desired code



- Select the desired code number and let the radio work on this country code.
- Switch the radio off, take off the PTT rubber and solder a jumper across terminal 4&5
- Now the radio is permanently locked against any country code change and works only on the last used country code, as long as the jumper remains soldered.
- Add the rubber again at the PTT button location

### D: Restriction of a Unit to CB Radio only

A legally operating CB radio can be recognized at the soldered jumper between terminals #2 and #3. This jumper inhibits users to switch with easy means to not for CB allowed frequency ranges.

## 2. Frequency Coverage List:

<b>Code 0:</b>	<b>(10 + 12 m Bands) 28.00 to 29.69 &amp; 24.89 to 24.99 MHz</b>
<b>Code 1:</b>	<b>(10 m Band) 28.000 to 29.690 MHz</b>
<b>Code 2:</b>	<b>(12m Band) 24.890 to 24.990 MHz</b>
<b>Code 3:</b>	<b>(454ch.) 25.165 to 29.655 MHz</b>
<b>Code 4:</b>	<b>(454ch.PL) 25.160 to 29.650 MHz</b>
<b>Code d:</b>	<b>(Germany 80ch.) 26.565 to 27.405 MHz</b>
<b>Code: EU,US &amp; E:</b>	<b>(40ch.) 26.965 to 27.405 MHz</b>
<b>Code PL:</b>	<b>(40ch.) 26.960 to 27.400 MHz</b>
<b>Code U:</b>	<b>(UK) U1- 27.601 to 27.991MHz</b> <b>U2- 26.965 to 27.405 MHz</b>
<b>Code US:</b>	<b>USA: AM / SSB 40 ch: 26.965 to 27.405 MHz</b>

## 3. Memory Programming “M1 to M5”

1. Using **UP/DOWN** buttons select the desired frequency to be saved.
2. Press **FUN** button and then **ML/MS** button, notice the “**M**” icon blinking on the right side of the display.
3. Then press **SCAN/MENU** button to save in memory **M1**.
4. Repeat procedures **1** and **2** and save it to **MODE / H/L** button for memory **M2**, **STEP / CH/FREQ** button for **M3**, **CH9/19 / LOCK** button for **M4** and **SQ,MICG,RFG /RPT** for **M5**.

## 4. Memory Recall “M1 to M5”

1. Press **ME/MS** button and then **SCAN / MENU** button to recall memory **M1**  
Press **ME/MS** button and then **MODE / H/L** button to recall memory **Important**
- Note:**
2. **M2**
  3. Press **ME/MS** button and then **STEP/ CH/FREQ.** button to recall memory **M3**
  4. Press **ME/MS** button and then **CH9/19 / LOCK** button to recall memory **M4**.
  5. Press **ME/MS** button and then **SQ, MICG, RF-G/ RPT** button to recall memory **M5**.

### **Important Note:**

Only the green colored country codes (page 1) are legal codes to be used for standard CB radio purpose by any CB users in the European Union & R&TTE Countries. In some countries licensing procedures with 1 x or regular costs may still apply

The blue colored amateur radio codes may be used by persons, who have a valid amateur radio license issued by a European member state authority.

The red colored codes are not for use in European countries. In some countries it may be allowed that radio amateurs can own radios where all country codes can be activated, but even if that is the case, radio amateurs are only allowed to use the dedicated amateur radio frequencies. In that case, the radio is not allowed to be used for any other purpose than for amateur radio.