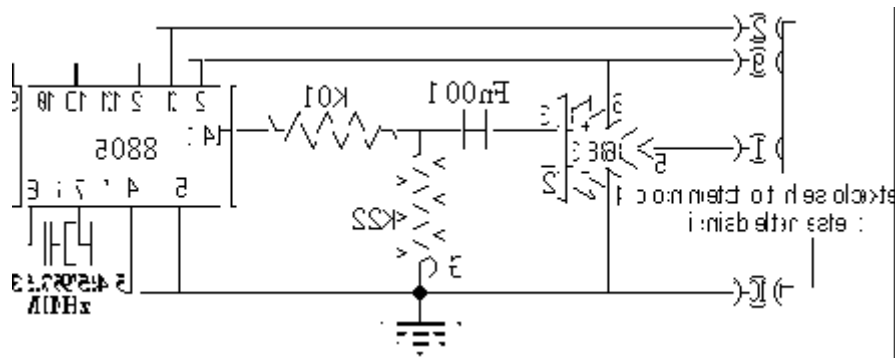## DigitC DTMF-Encoder (Fit inside Yaesu FT-23R)

Pressing the PTT of the set will put 2(5088) high (at 5V) enabling the generation of the DTMF Digit (in this case with 9,10,11,12 of 5088 high or open is DigitC). The DigitC code at the output of 5088 (pin 14) is amplified (approxmately fourteen times) and then coupled to the modulating circuit inside the set via terminal(1). How can you get any other Digit code?

Circuit Board for DigitC DTMF-Encoder

1. On a strip board write from left to right the letters A to H and from up to down the numbers 1 to 14.
2. Cut the board over the holes of number 14 and then over the holes of letter H to get (7 holes x 13 holes) board.
3. Cut the board over the holes:
   ABEG8/EG5/FG11/ABCDE12
4. The components:
   Pin1 (5088) Pin8   GA10   cut the pins 3&5
   Pin1 (386) Pin 4   GD4   cut the pins 1,2,5&7
   Xal   AB9
   100nF   CE3
   22KΩ   CD9
        ➤ 1/8 Watt stand with long terminal toward C9
   10KΩ
        ➤ 1/8 Watt stand,one terminal is soldered to E9 and the other to the long
             terminal of 22KΩ
5. Jumpers from Component side:
           Pin5 of 386 and A3/G9-B3/D8-G3
6. Shorts:
   From component side between pin 4&5 of 5088
   From strip side   F12-E11/FG13/EF7

   Terminal (1): is a thin wire coming out from A1 with 0.5cm length and soldered from strip side to A1&A2.
   Terminal (2): is a thin wire coming out from B1 with 0.5cm length and soldered from strip side to B1&B2.
   Terminal (9): is a thin wire coming out from F1 with 0.5cm length and soldered from strip side to F1&F2.
   Terminal (10): is a thin wire comming out from G1 with 0.5cm length and soldered from strip side to G1&G2.