12V Rx 100R 4 K7 2nos BC547 220R ╢ . 01 In from xtal filter 47K .01 Out to PD

IF amp mod

Substitute Q3 in original circuit with 2 transistor configration

* Reduce if higher gain devices are used for stability



Sustitute Q1 for better performance

Notes:

- a) Kindly correct output pin for LM386 is pin 5
- b) Make speaker coupling cap at pin 5 of LM386 as 200uF
- for better low freq response
- c) Make bandpass filter using link coupled coils omit 15pf coupling cap
- d) BFO freq should be around 9995.0 khz approx
- e) If using 2N3866 for driver transistor make emitter resistor 10R Remove the partial bypass cap and resistor else stage will oscillate
- f) When substituting Q1 with 2SC2570 note different pinout

BITX 20 Mods

By: VU3WJM Rahul

Wind about 15 turns of 44-45 swg on dumbell core from old 10mm 10uH IF transformer or SW osc coil trimmer 22p green mhn

BFO mod

This configration gives more BFO xtal tuning range All other component unchanged