IAB2-13 setup guide

1- Cut off USB-Plus section.

2- Keep both Hub section together.

3- install 1/8 connectors in position **J1, J2, J4, J5, J6, J7, J9 AND J10**

4- Install 100uH inline coils or RF ferrit inline in position **L1, L2, L4, L5, L6, L7, L9 and L10.**

Warning; Use the SQUARE hole on the PCB leaving the round hole available for the cable connection.

5- install **470ohm resistor in R1**, folding the resistor toward center of the PCB to prevent it breaking off.

Warning; make certain the Resistor leads to touch anything.

6- Install the **LED in LED1**, bending the leads ov the LED toward the edge of the enclosure.

Warning; make certain the LED leads to touch anything.

7- Install the cable **Light Pink** wire in L2 input round hole.

8- Install the cable **Green** wire in L9 input round hole.

9- Install the cable **Light Purple** wire in L1 input round hole.

10- Install the cable **White** wire in L4 input round hole.

11- Install the cable **Light Green** wire in L5 input round hole.

12- Install the cable **Purple** wire in L6 input round hole.

13- Install the cable **Brown** wire in L7 input round hole.

14- Install the cable **Grey** wire in L10 input round hole.

15- Install the cable **Blue** wire to the VDC+ (Pin1) input in the center of the PCB on the same side as the LED1.

16- Install the cable **Black** in ground (pin2) input in the center of the PCB on the same side as the LED1.

17- Install the cable **Yellow** wire in ground (pin2) input in the center of the PCB on the opposite side as the LED1.

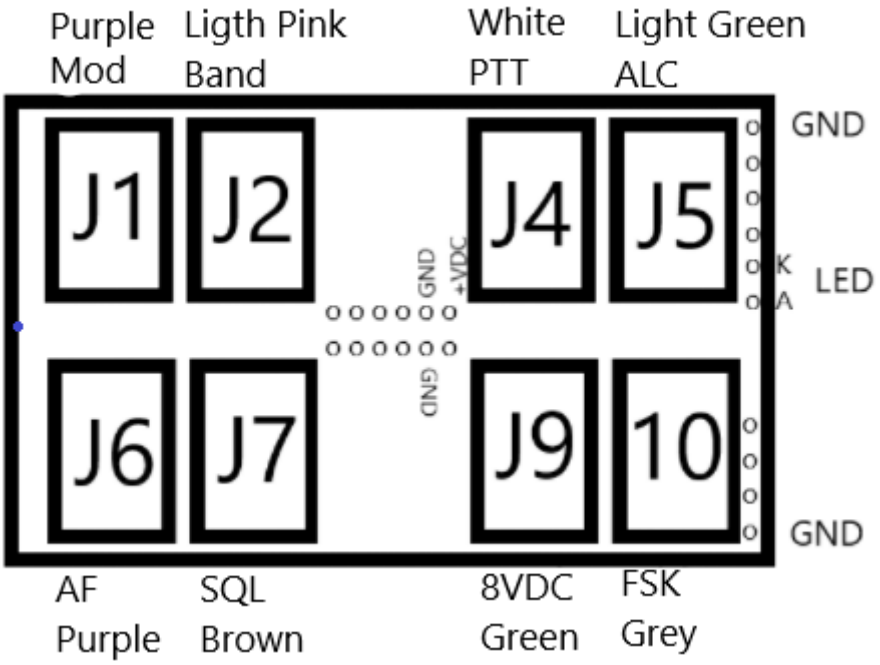
18- place the PCB in the lower enclosure, making certain the LED, connectors and cables are lined up properly.

19- install the tie wrap on the cable, cutting off the exeeding portion.

20- After putting a small amount of glue on all for corners and two center side pieces insert the top cover on the lower cover.

21- after placing a very small amout of glue in each of the magnet holes, install each magnets.

PCB Location



(Blue to +VDC and Black and Yellow to GND)

Connector Allocation

J1 = Mod

J2 = Band

J4 = PTT

J5 = ALC

J6 = AF

J7 = SQL

J9 = 8VDC

J10 = FSK

Cable Colour Code

Black = Shield/gnd

Green = 1 = 8VDC

Yellow = 2 = Ground

White = 3 = PTT

Red = 4 =

Ligth Pink = 5 = Band

Light Green = 6 = ALC

Orange = 7

Blue = 8 = 13.8 VDC (Warning Danger!!)

Light Blue = 9

Grey = 10 = FSK

Light Purple = 11 = Mod

Purple = 12 = AF

Brown = 13 = SQL

Icom Pinout

• ACC socket

ACC	PIN No.	NAME	DESCRIPTION	SPECIFICATIONS
13-pin  Rear panel view ① brown ⑧ gray ② red ⑨ white ③ orange ⑩ black ④ yellow ⑪ pink ⑤ green ⑫ light blue ⑥ blue ⑬ light green ⑦ purple Color refers to the cable strands of the supplied cable.	1	8 V	Regulated 8 V output. (Used as the reference voltage for the band voltage.)	Output voltage: 8 V ±0.3 V Output current: Less than 10 mA
	2	GND	Connects to ground.	—
	3	SEND*1	Input/output pin. An external unit controls the transceiver. When this pin goes to ground, the transceiver transmits.	Input voltage (RX): 2.0 to 20.0 V Input voltage (TX): –0.5 to +0.8 V Current flow: Maximum 20 mA
			The pin goes low when the transceiver transmits.	Output voltage (TX): Less than 0.1 V Current flow: Maximum 200 mA
	4	BDT	Not used.	—
	5	BAND	Band voltage output. (Varies with the selected amateur band)	Output voltage: 0 to 8.0 V
	6	ALC	ALC voltage input.	Input level: –4 to 0 V Input impedance: More than 3.3 kΩ
	7	NC	—	—
	8	13.8 V	13.8 V output when power is ON.	Output current: Maximum 1 A
	9	TKEY	Not used.	—
	10	FSKK	Controls RTTY keying.	High level: More than 2.4 V Low level: Less than 0.6 V Output current: Less than 2 mA
	11	MOD	Modulator input.	Input impedance: 10 kΩ Input level: 100 mV rms*3
	12	AF/IF (IF=12 kHz)*2	Fixed AF detector or receive IF (12 kHz) signal output.	Output impedance: 4.7 kΩ Output level: 100 ~ 300 mV rms*4
	13	SQL S	Squelch output. Grounded when the squelch opens.	SQL open: Less than 0.3 V/5 mA SQL closed: More than 6.0 V/100 µA