



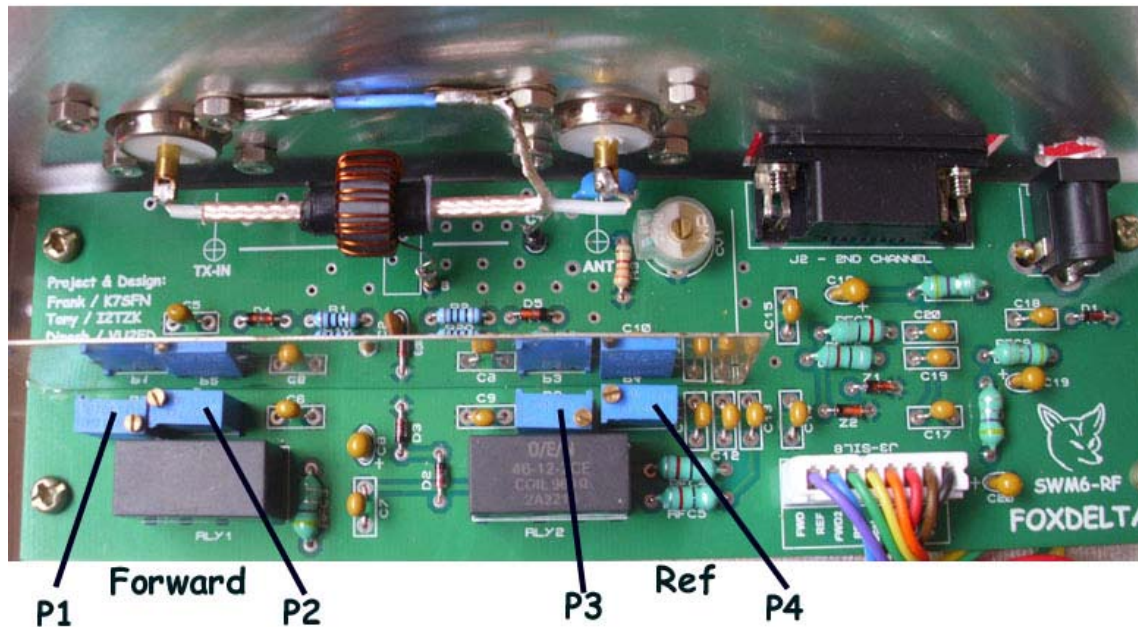
Fox Delta

Amateur Radio Projects & Kits

FD- SWM6-Cal

SWM6 Basic Calibration Procedure: Internal & External HF Bridge

Setup Internal Bridge:



Preset Definition:

P1: 1KW Forward Power Adjust
P2: 100W Forward Power Adjust

P3: 100W Reflected Power Adjust
P4: 1KW Reflected Power Adjust

First, set power level for each channel:

Press “Long” Blue button,
This will enter into channel power setup

Set **100w** or **1kw** as required for CH1 and 2

Or select **AUTO**,

If auto is selected, connect USB cable and connect to SWM6 Software,
Make necessary entries in PC Menu for each channel to auto activate scaling
relays

Radio to SWM6 setup:

Use a radio (TRX) with FWD/REF and SWR meter to start with,

Connect SWM6 “TX” IN to TRX,

Connect a 50 ohms Dummy load to SWM6’s ANT Connector

Set radio on CW and set output power to 20W (or 50W)

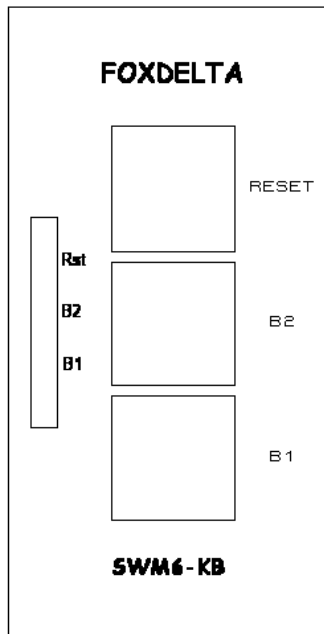
Adjust P2 preset to read 20W on SWM6 LCD

If 50 ohms dummy is good, SWR will be displayed as 1.00

This is basic calibration.

Apply any other power to say 50 or 100W and observe power displayed on LCD

Button details:



Key Functions:

1. CPU Reset (RED)
2. B2: Main Menu/Mode button (GREEN)
3. B1: Backlight control and channel power level select. (BLUE)

When 2nd channel bridge is connected, follow identical method by setting presets inside external bridge.

When 1KW level is selected, you may see “SCALE” LED light up

“Alarm” LED may light up when SWR is higher (2.5+)

73s

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For more details, please visit Project Page: <http://www.foxdelta.com>