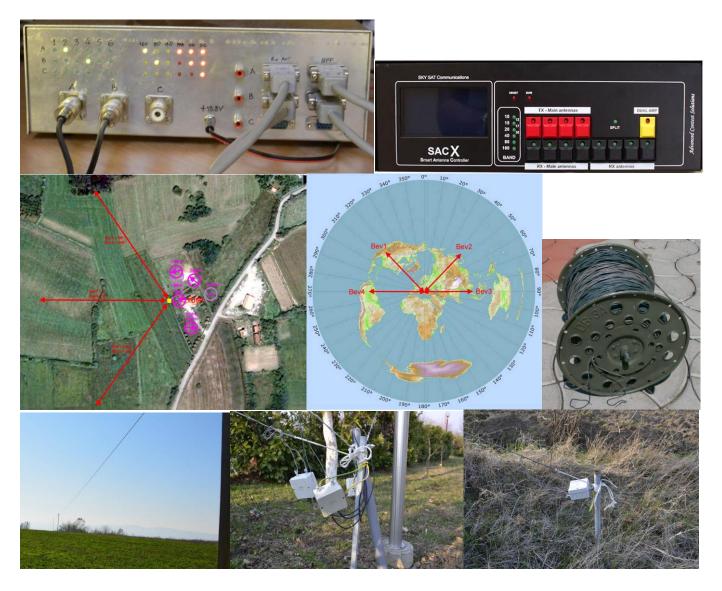
## **YU5R Beverage Box**

by Goran Stankovic dipl.ing.el. - YT2FSG - Date: 12.03.2014.

email: goranstank@gmail.com

In Resava Valley Contest Club YU5R in Multi-two contest we used two SACX, six-pack and High Power Band Pass Filters products from 4O3A <a href="http://www.4o3a.com/">http://www.4o3a.com/</a>. For the 1.8MHz High Power Band Pass Filter we used the product from <a href="http://www.dual.rs/">http://www.dual.rs/</a>.

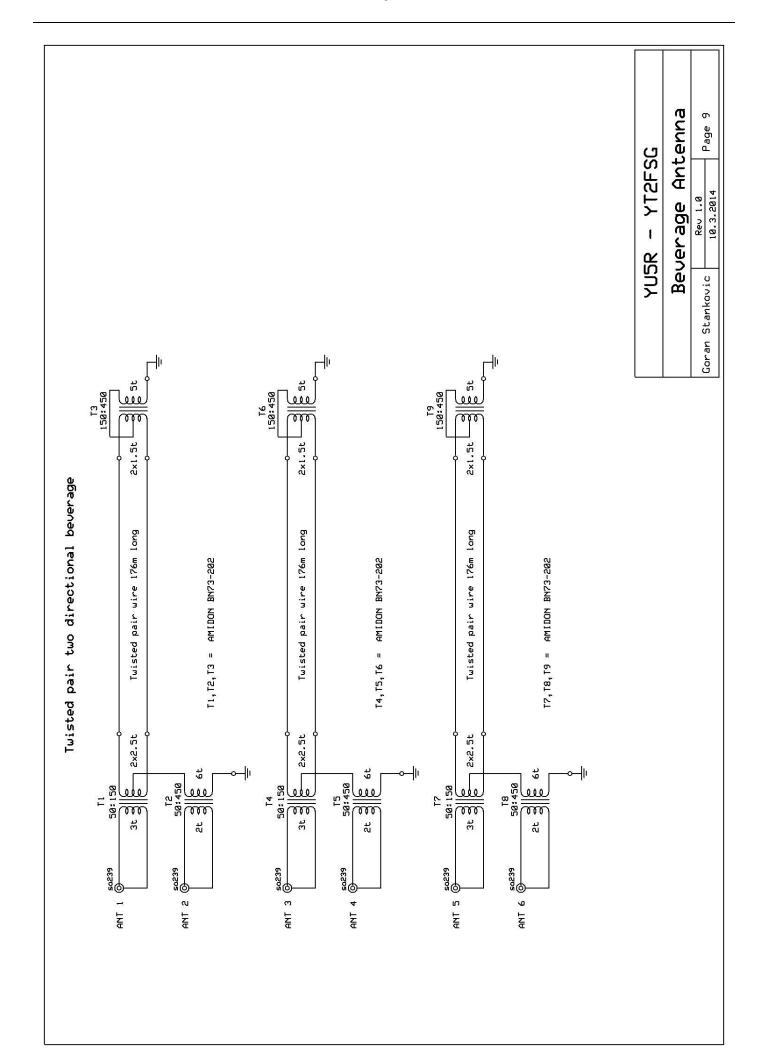


For Rx antenna we made 3 two-directional beverage antennas from a pair of twisted wires from a military telephone cable (176m long and 2m high) and a Beverage Box.

Beverage Box includes relay swich for 6 Rx antennas and 3 radios, output for each radio have Low Band Pass Filters 1.8MHz, 3.5MHz, 7MHz and a preamplifier. For rig as Yaesu FT857 and FT950 we made an additional relay for switching the antenna.

The transmission line impedance of the twisted wires should be about 150 ohms and the Beverage antenna impedance should be about 450 ohms. We used the transformers of binoculars ferite Amidon BN73-202 and a galvanized water pipe as a ground connection at each termination. We used 4 of the 6 directions, two directions closed with 50 ohm terminator. Terminator is made of the connector PL239 and two parallel resistors of 100 ohm.





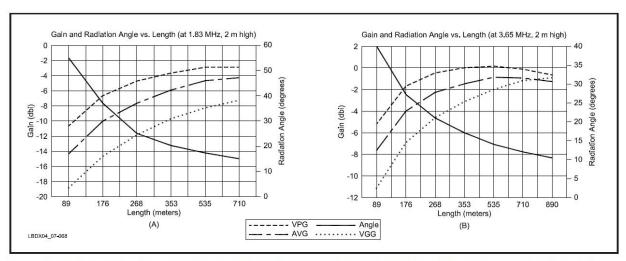


Fig 7-68—Gain and elevation angle for a 2-meter high Beverage antenna for 160 and 80 meters, as a function of the antenna length. Three curves are shows: over Very Poor Ground (VPG), over Average Ground (AVG), and over Very Good Ground (VGG). The radiation angle is computed for Average Ground. This angle only changes marginally between Very Poor and Very Good ground.

## REFERENCE:

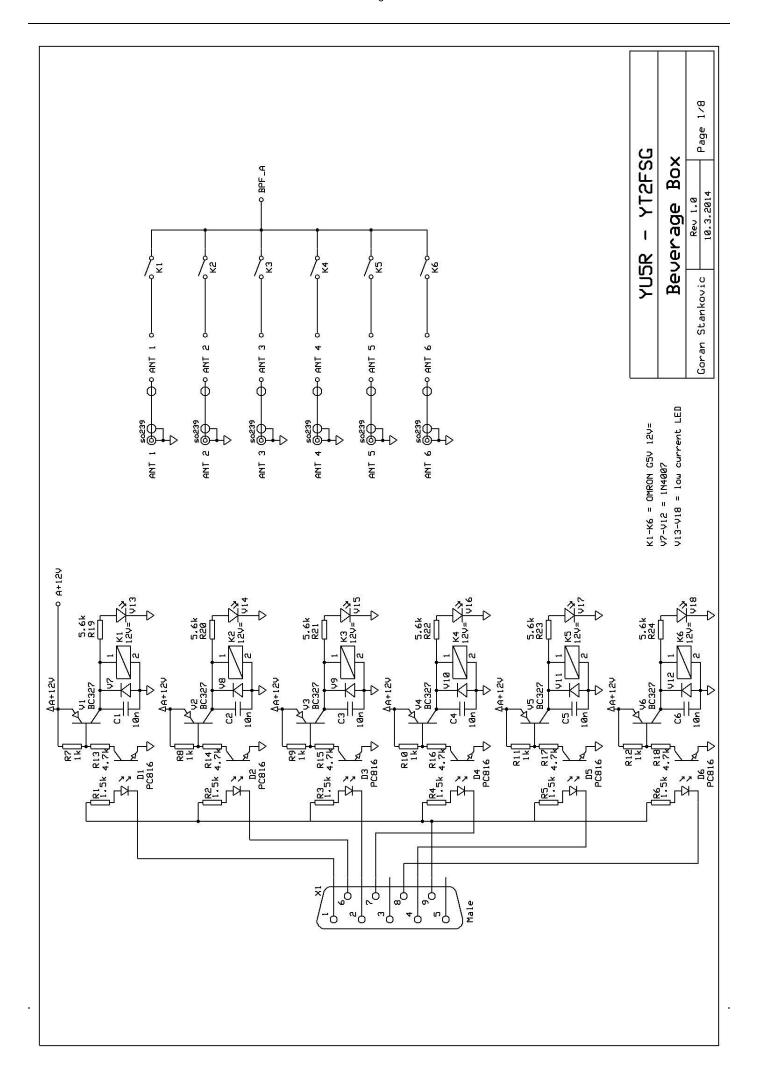
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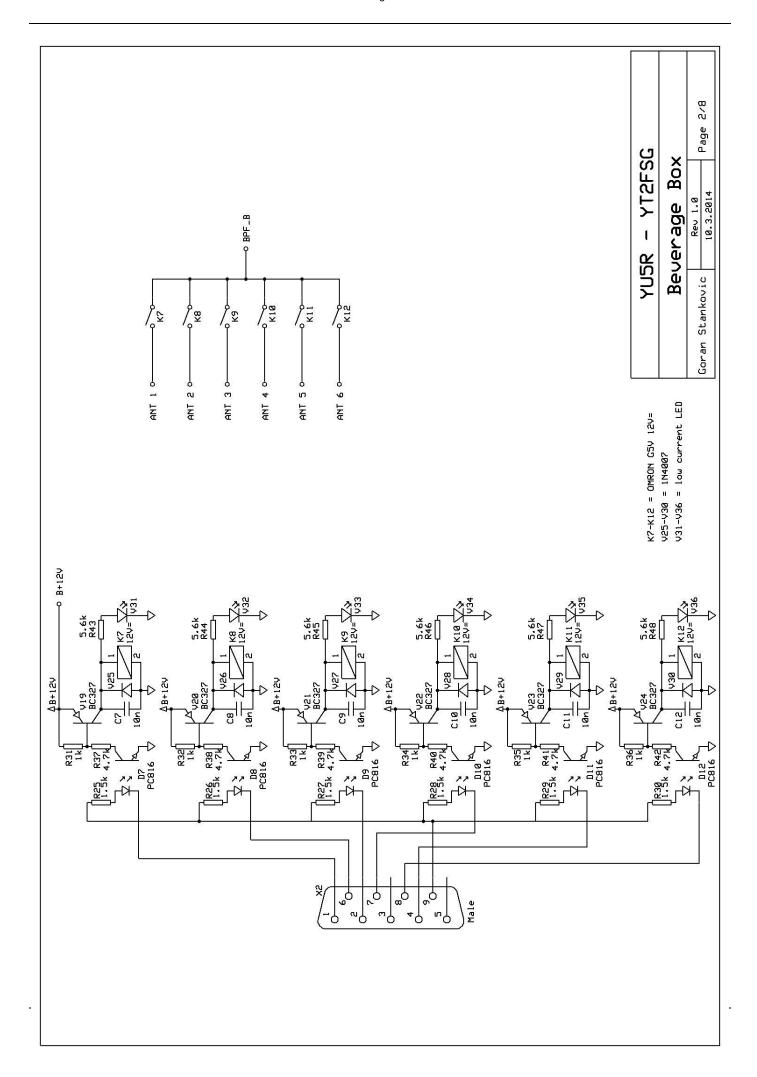
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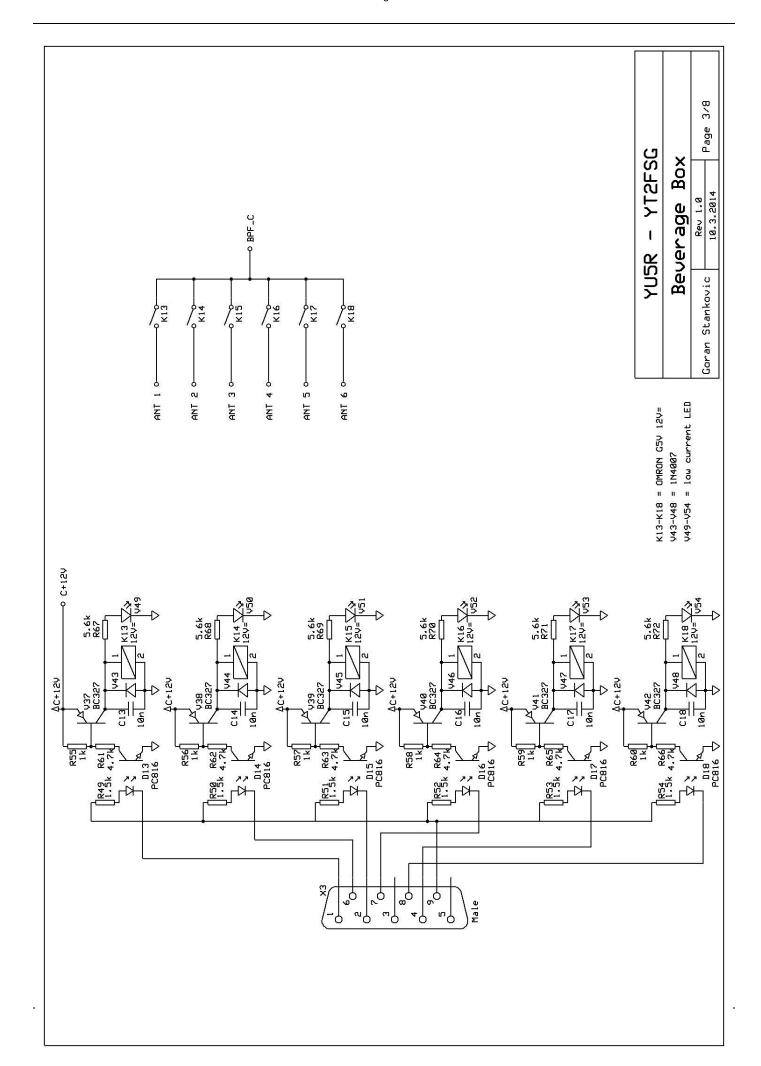
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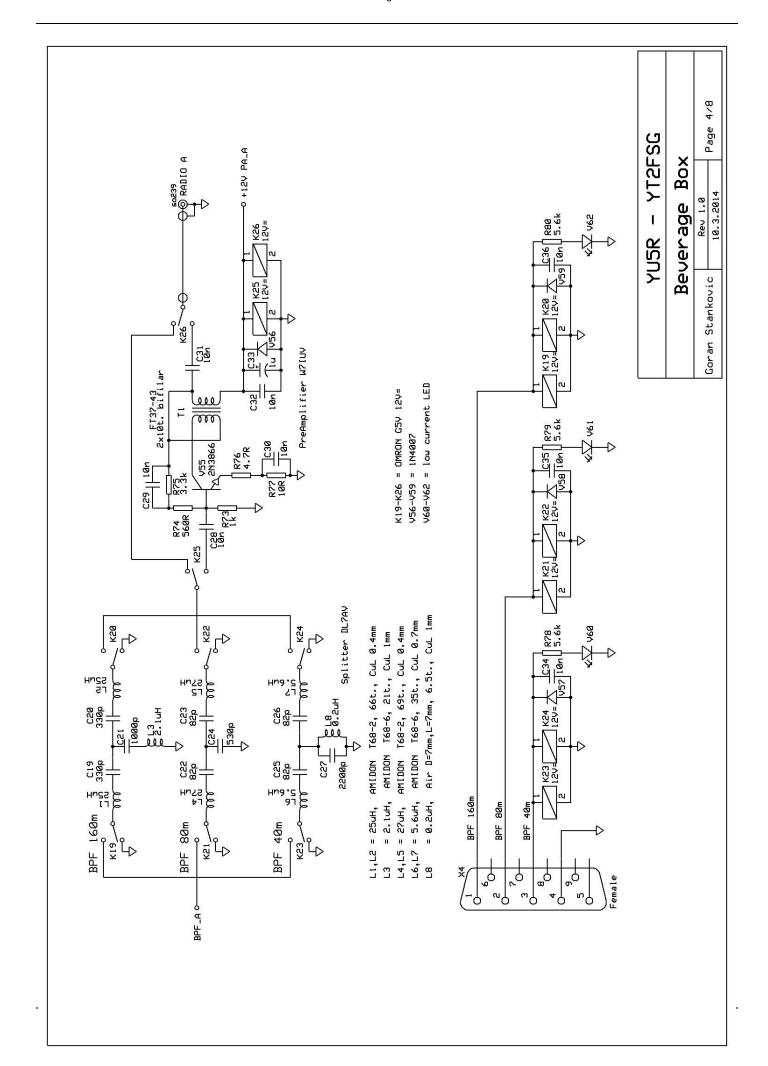
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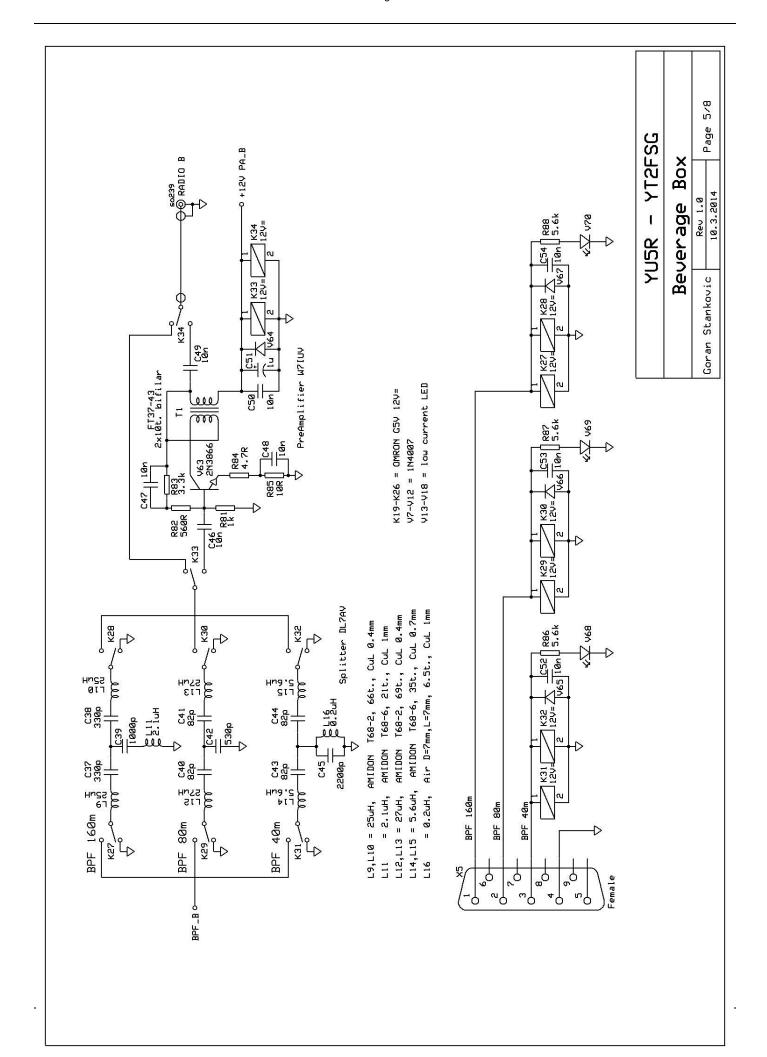
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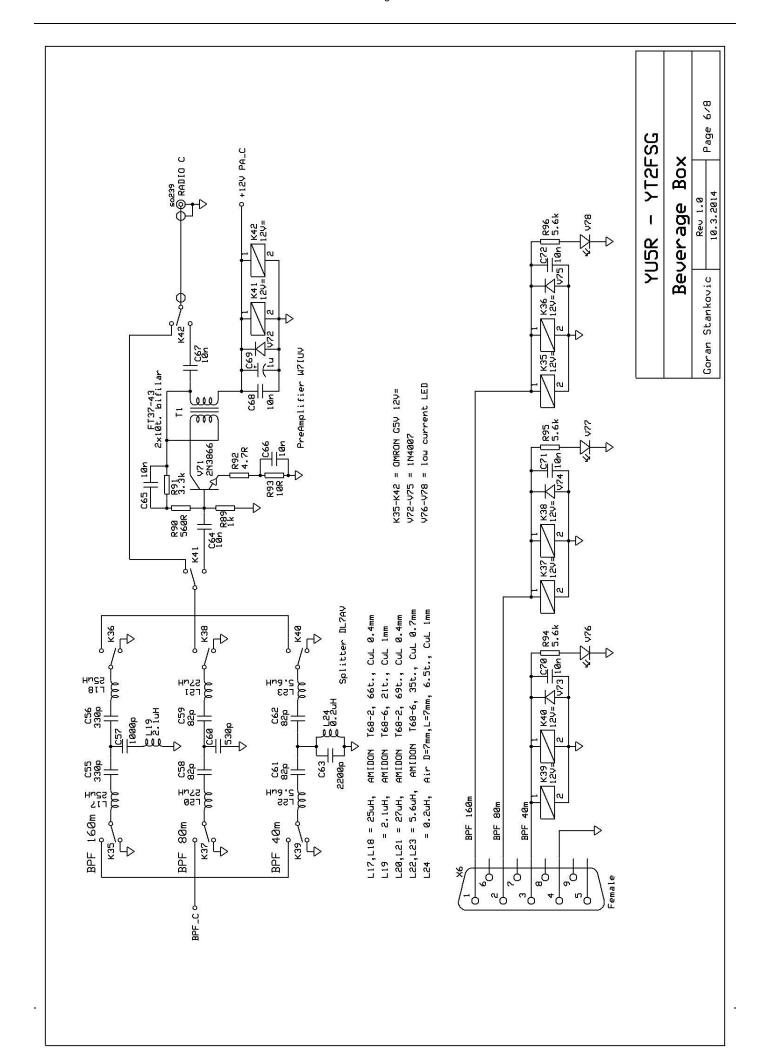


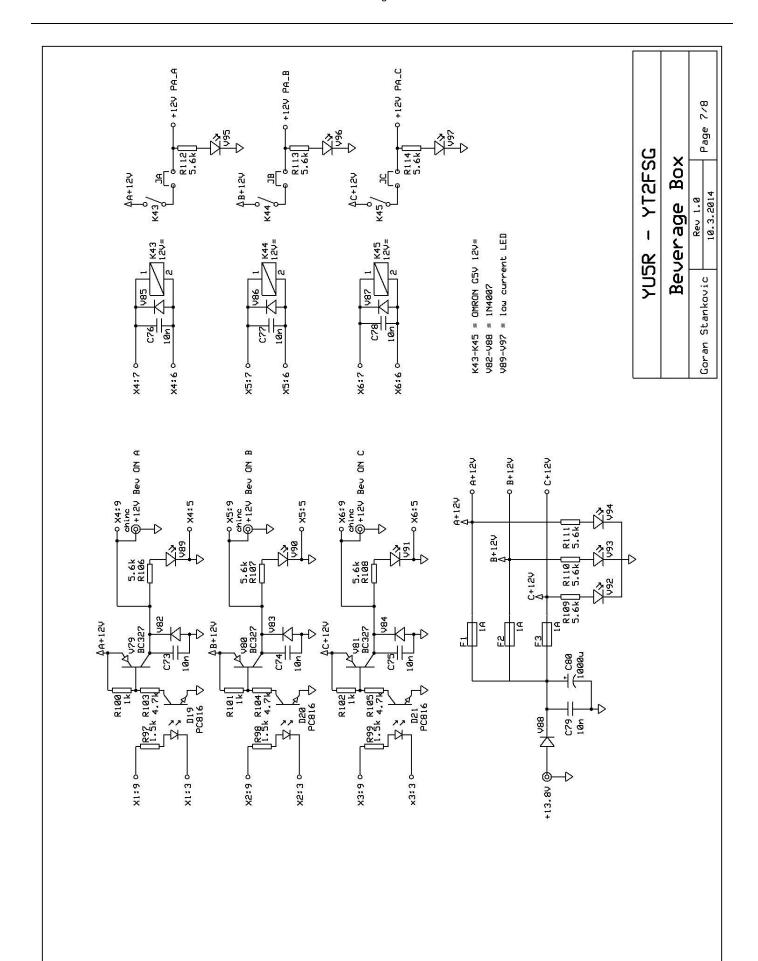












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KI = FINDER 46.31.9 12V= 0.40.52.9 12V= VL-V7 = 1ou current LED

YU-V7 = Iou current LED

YUSR - YTZFSC

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chinc Linear PTT

RxTx PTT-GND ©

Add-on rigs that do not have input Rx antenna

chinc +12V Bev ON 🕅

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