

## How to put into operation RF deck's

- 1) Connect the in and out coaxial relays, the UCU-03 control unit according to the attached block diagram.
- 2) Connect the wires and fittings of UCU-03 using the drawing given. The Ig1 and Ia instruments must have a basic value 100-250  $\mu$ A.
- 3) To run the unit you need an outer power supply providing Ua, heating and 15-18V/1A AC for the control unit. Please heat the tube(s) over min. 24 hours before the installation, without anode voltage, air cooling is necessary! /DC or AC fan is usable/.
- 4) Check the correctness of the wiring, and the required voltages. Push the PTT to activate the aerial relays. Check the voltage on the R5 resistance. You must measure 80-100 mV. In case the voltage  $< 60$  or  $> 120$  mV you have to change the D1 Zener diode in -Ug1 to regulate the basic current (80-100 mA). You can calibrate the instrument with P3 potentiometer to 80...100 mA in UCU-03.
- 5) Connect a power meter to the module. Give a few watts driving power. Tune to the maximum output power. By tuning the entrance adjust the match, check the input VSWR value ( $< 1:1.5$ ). Give maximum driving power according to the specifications. Tune again to the maximum output power adjusting the output, and aer coupling capacitor. To calibrate the G1 meter check the voltage on the R4 resistor. Calculate the G1 current using Ohm's Law. Adjusting by P2 potentiometer you can calibrate the instrument of Ig1 current.  
P1 potentiometer use for adjusting the level of the protecting circuit - see the specification of tube.  
The RESET push-button is for restart the unit in case of overcurrent.  
P4 potentiometer regulating the protecting circuit in cases aer VSWR  $> 3$ .
- 6) During assembly the regulations concerning to the safety of life all the time must be observed.
- 7) The assembly of the module requires technical practice and knowledge.

Please attempt in any time when you working with high voltage!

The needed voltages on case GU74B:

Ua	=	2-2.4KV max/750mA
Ug2	=	275-300V max/30mA
Ug1	=	-33-50V/15mA
Uh	=	12.6V/AC /4A
Ur	=	15-18V/AC /1A for UCU-03