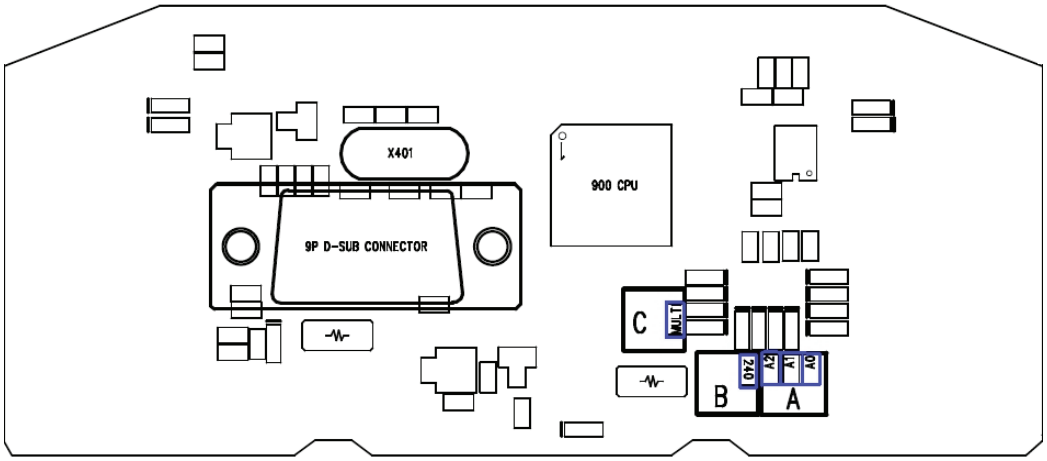
# Repair & Adjustment Hints
# AE 6890 Jumper settings, Power and Channel options

## Jumpers at detachable front section board

To open: take off front section, remove 4 screws




**Jumper section A:**

Selecting the initial factory default frequency. (1 = solder jumper or 0 Ohm resistor added) Factory default is version 3 jumpers added for Germany ***dE***

| Version | A0 | A1 | A2 | Country | DISPLAY,CHANNEL |
|---|---|---|---|---|---|
| 1 | 1 | 0 | 0 | UK | U(FM40CH 4W) |
| 2 | 0 | 1 | 0 | Spain (Italy) | E (F40 4W/AM40 4W) |
| 3 | 1 | 1 | 0 | GERMANY | DE(FM80 4W/AM40 1W) |
| 4 | 0 | 0 | 1 | EU | EU(FM40 4W/AM40 1W) |
| 5 | 0 | 1 | 1 | CEPT(FM) | EC(FM40 4W) |
| 6 | 1 | 1 | 1 | POLAND(-5K) | Po(FM40/AM40 4W) |

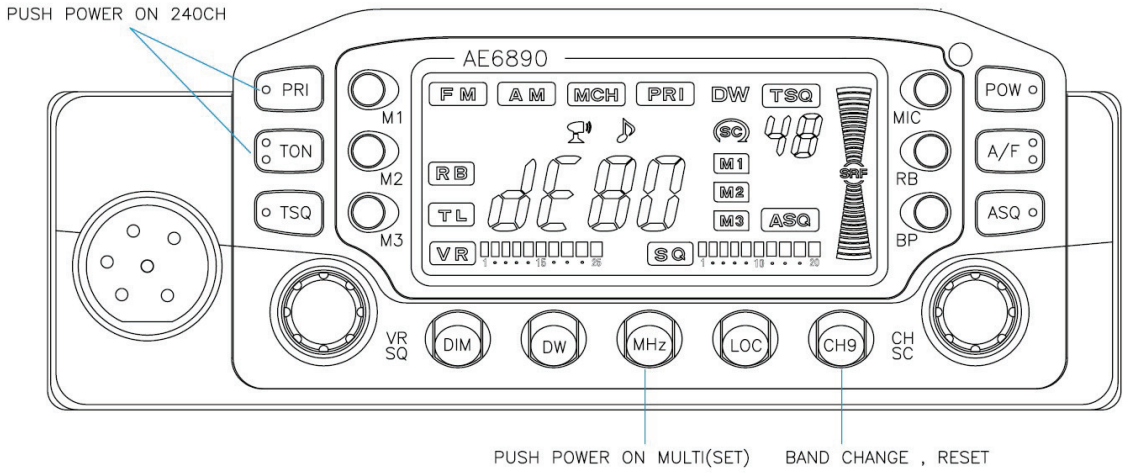
**Jumper section B**:

Enable 240CH by adding 0 OHM or solder jumper.
Default setting: no jumper, 240 CH is not allowed

**Jumper section C:**

Default: Enable MULTI Standard selection by user: 0 Ohm or solder jumper added
Disable Multi Standard selection: delete 0 Ohms or delete solder jumper.

## Operation in 240 CH mode:




- Keep buttons ***PRI*** and ***TON*** pressed during switch on
- Release ***Power*** knob
- Relase ***PRI*** and ***TON***
- Select bands ***A*** to ***F*** by ***CH 9*** knob

## Reset to Multi  Standard  mode:

- Keep button ***CH 9*** pressed during power on

***Reset*** appears on display for a moment, then normal operation starts

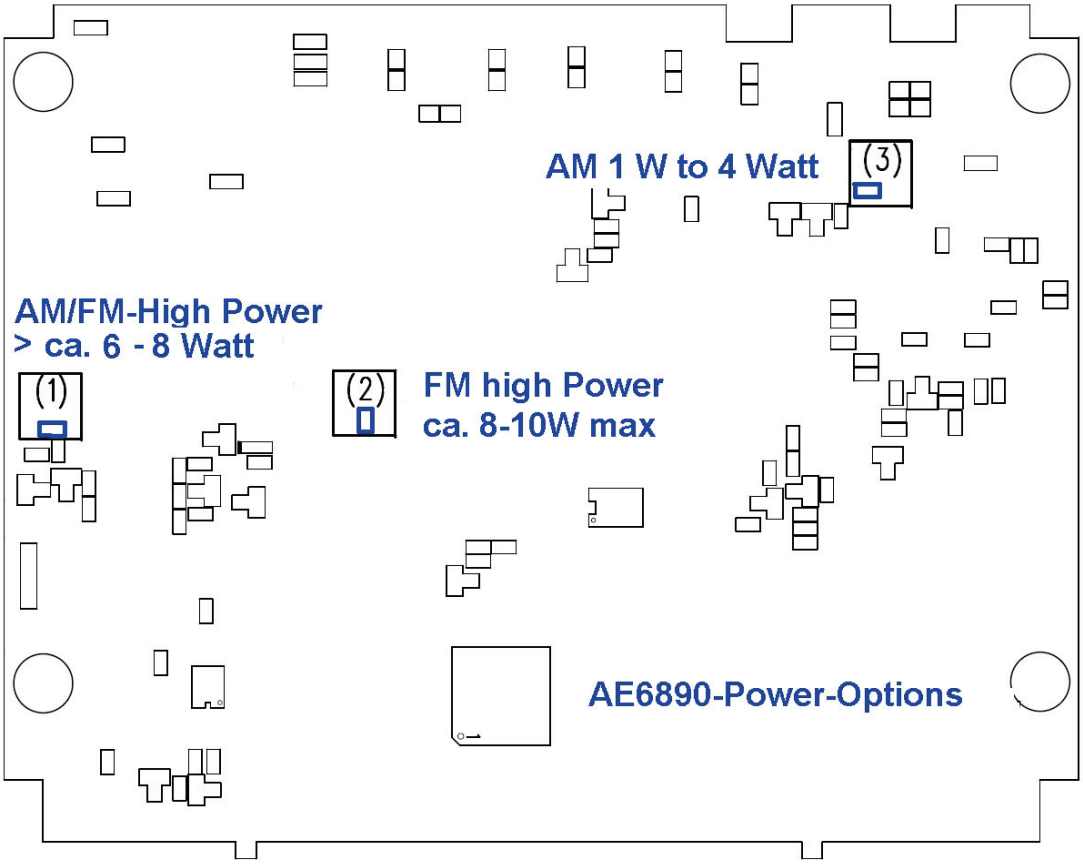
## Operation in standard mode (all EU countries)

- Keep ***MHz*** button pressed during ***Power on***
- Release ***POWER*** button
- Release ***MHz*** button
- Select country between ***dE*** (D, CZ), ***EU*** (European AM + FM), ***EC*** (European FM), ***E*** (Spain AM+FM), ***Po*** (Poland AM+FM) and ***U*** (UK FM channels)
- Press ***MHz*** to confirm

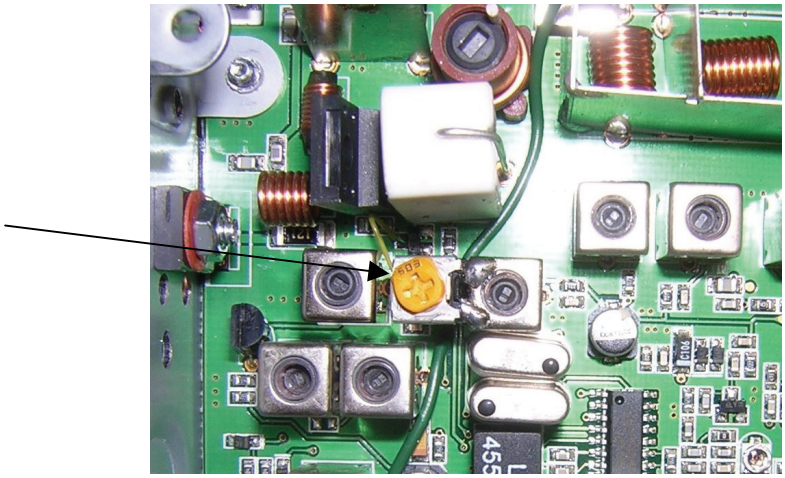
## Power jumper options (for use in Russia only)

Open main radio cabinet. Install solder jumpers or 0 Ohms resistors.
Possible modifications (1) and (2) ***or*** (3)

**(1) highest possible AM power max. 6-8 W eff**
**(2) highest possible FM power max. 8-10 W**
**(3) set AM power from 1 W to 4 Watts**

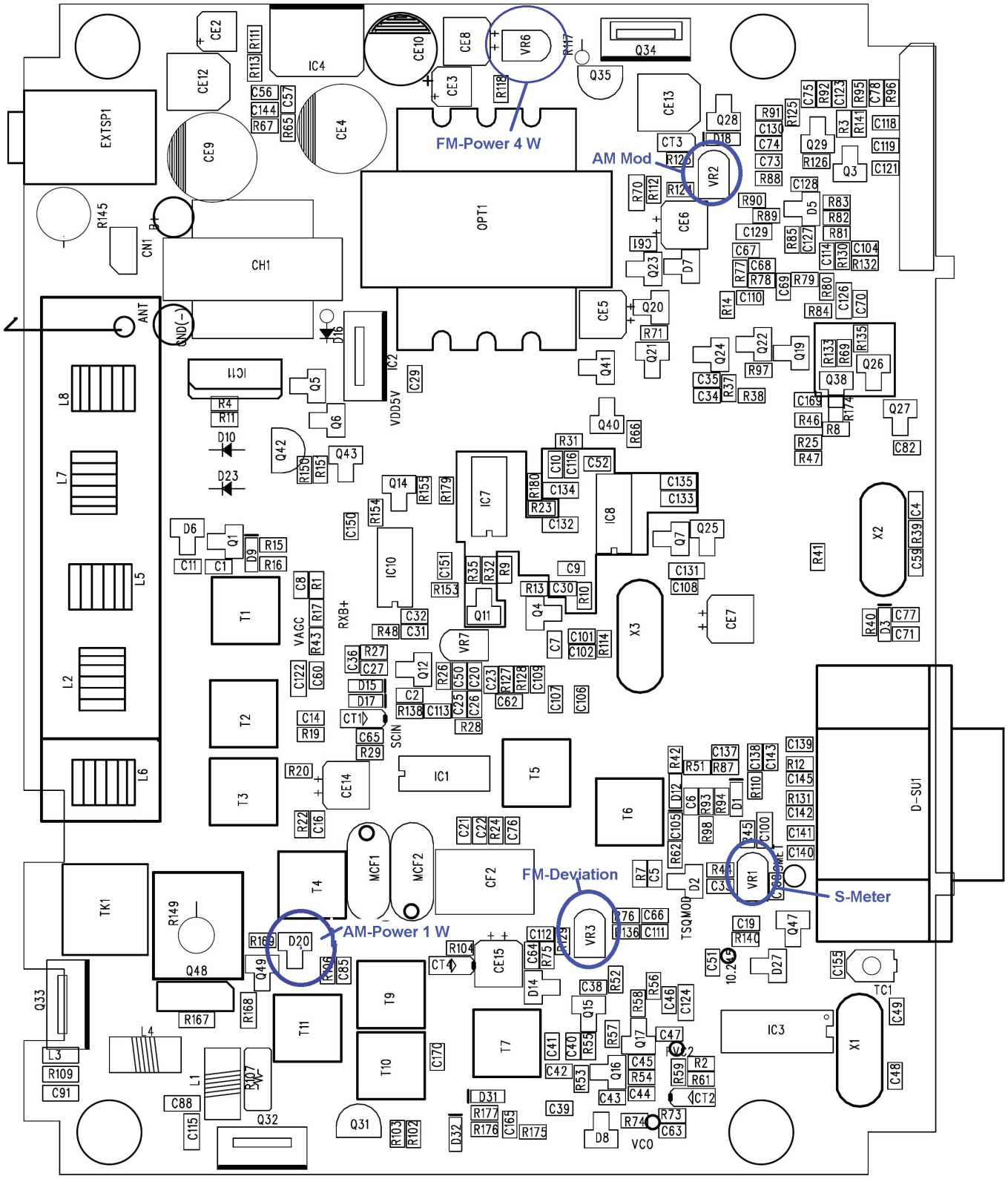



**Note:** instead of jumper (3) the **AM power in 1 Watt position** can be fine adjusted by potentiometer between about 700 mW and 4 Watt eff.

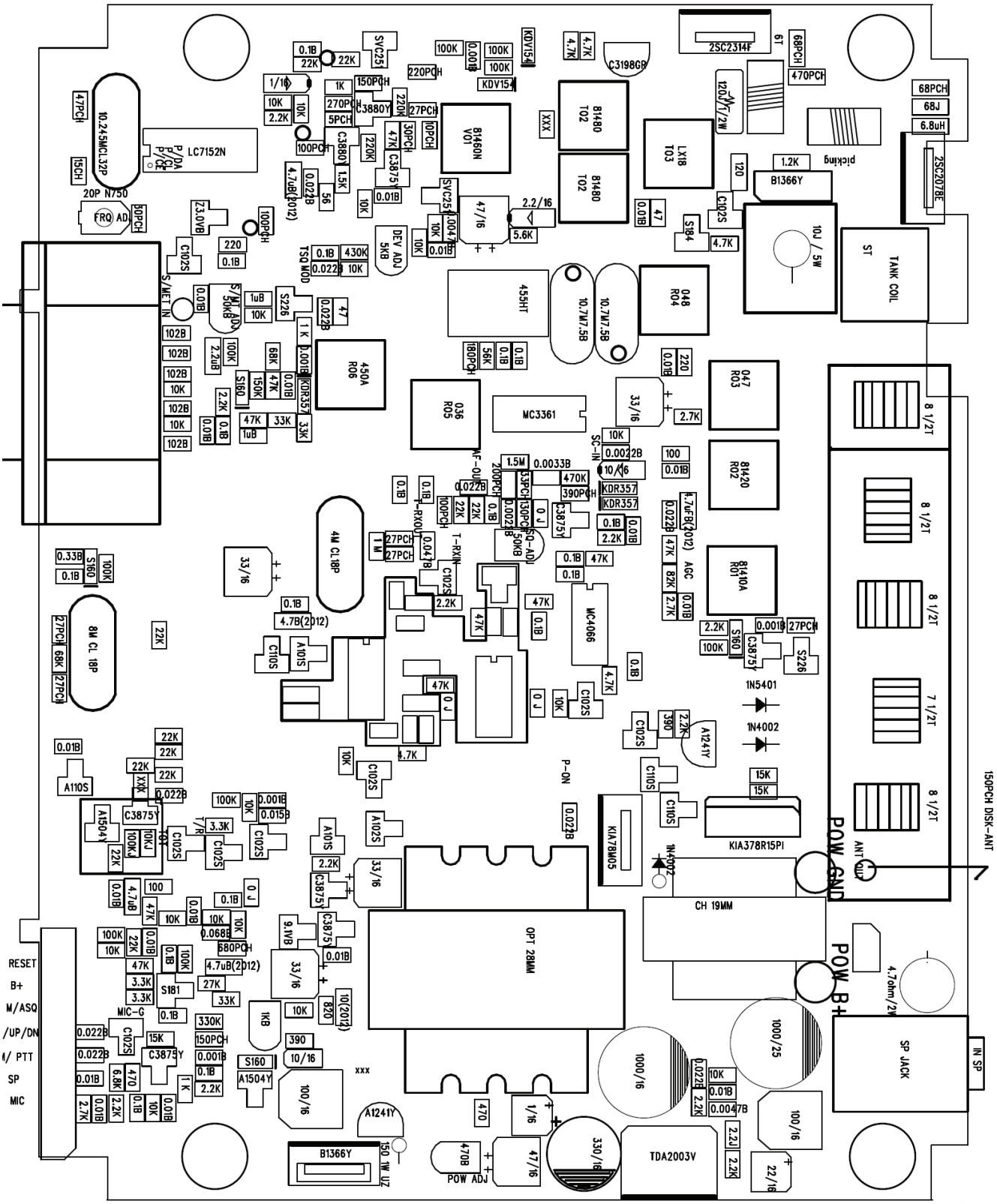
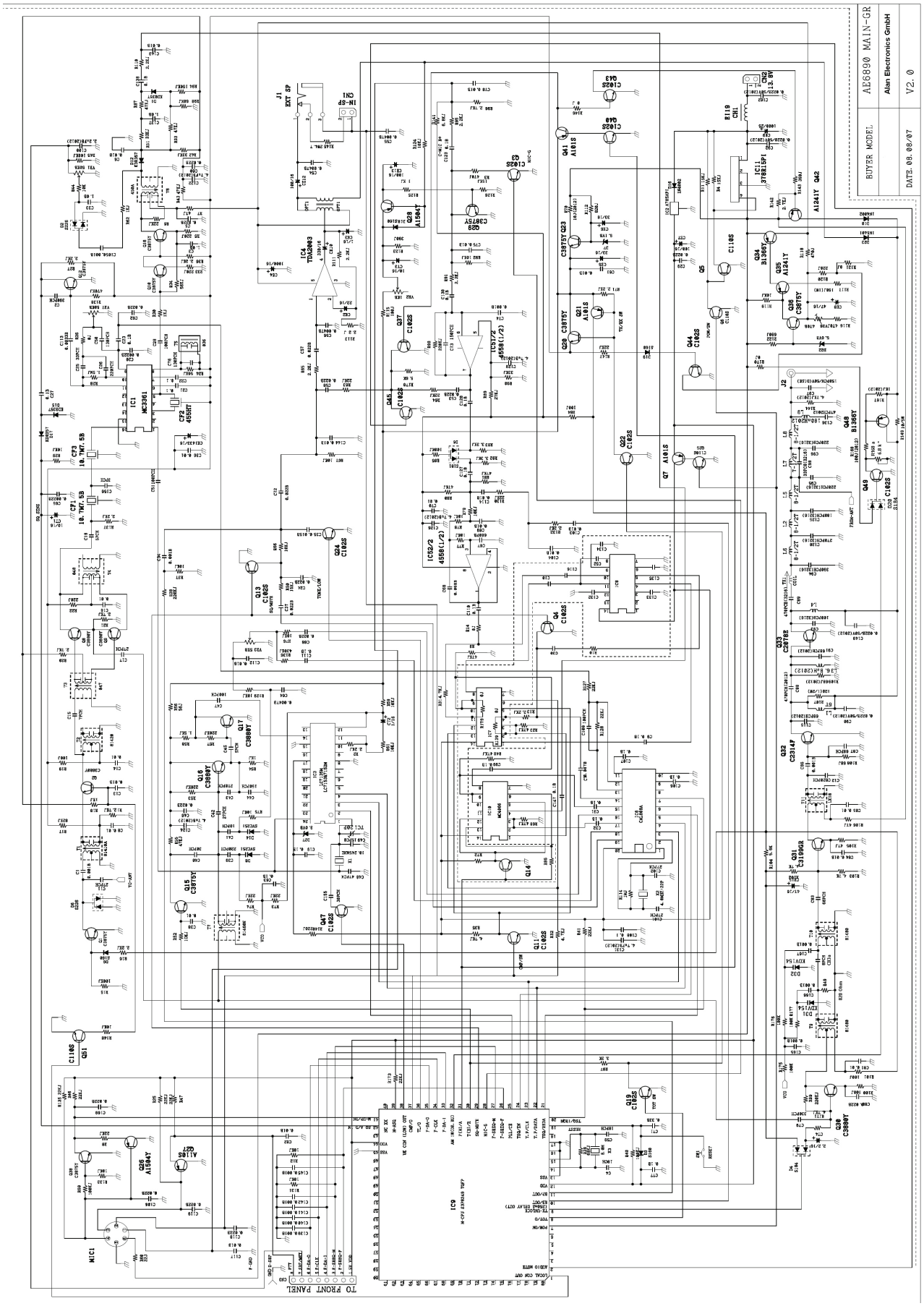


## 4 W Power adjustment in FM

User potentiometer ***RV 6*** in the power stabilizing section (near Modulation transformer for fine tuning to 4.0 Watts FM power.



## Main board, with components values



# Main board, circuit diagram