

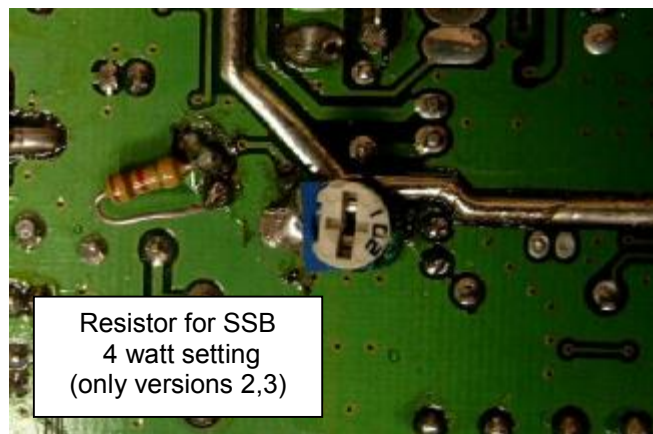
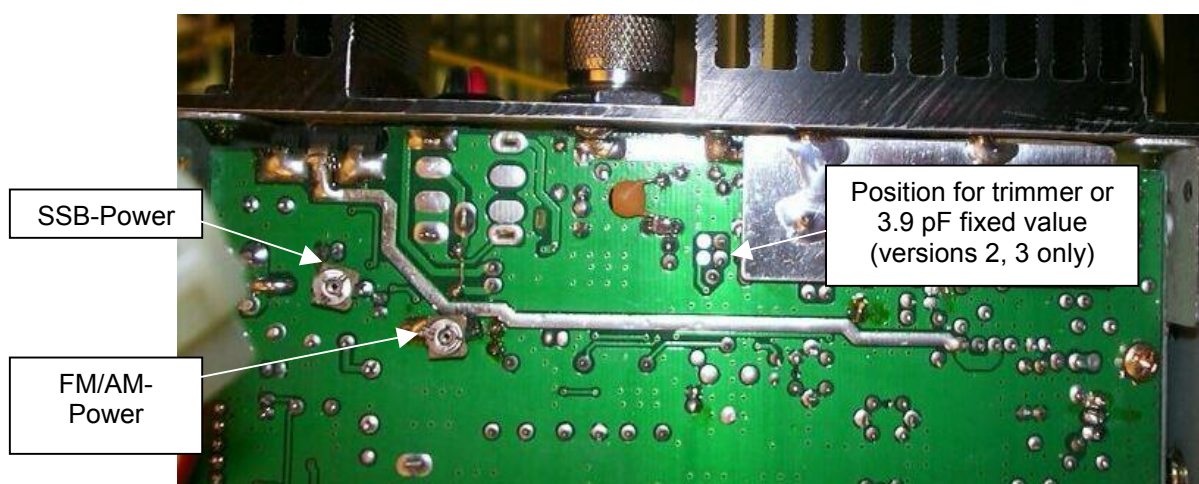
## Modification Hints AE 5800 / March 2003

### Increasing of Output Power for use by licenced radio amateurs

#### Problem:

AE 5800 has been shipped in up to now 3 slightly different versions, These versions have different output adjusting methods to keep the EN 300 433 limits in SSB (4 Watts PEP) , FM (4 Watts) and AM (1 Watt).

**Version 1 (see picture)** has 2 potentiometers on the soldering side.



The left potentiometer is for SSB only, the right for FM (AM is automatically set to 25 % of FM power) Both potentiometers are for output adjusting in the EN 300 433 version. The maximum tunable power value is around 10 watts.

**Version 2** has **only one potentiometer** (for FM), but a small additional **red coloured trimmer capacitor** for SSB in the position, which is free in version 1 (see above photo). **Version 3** has one potentiometer for FM, a **fixed resistor** (1 kOhm, at the position where the SSB potentiometer was in version 1, see left photo), the small red trimmer or a fixed capacitor value 3.9 pF.

#### Output increasing:

If the tuning range of version 1 does not be enough, **delete both** potentiometers (version 1) or the FM potentiometer **and** the red trimmer capacitor (version2)

In version 3 please delete the 1 kOhms resistor, the FM potentiometer **and** the red trimmer or the fixed 3.9 pF capacitor.

#### Final adjustment of SSB-ALC:

It may be necessary to re-adjust **RV 9** on the component side in SSB to obtain 25 Watts PEP with modulation.

#### Note:

This modifications are only allowed when converting the radio to amateur frequencies 28-29.7 MHz (see AE 485 S) and for use by licenced amateur radio operators. Increased power is forbidden in CB frequency range!