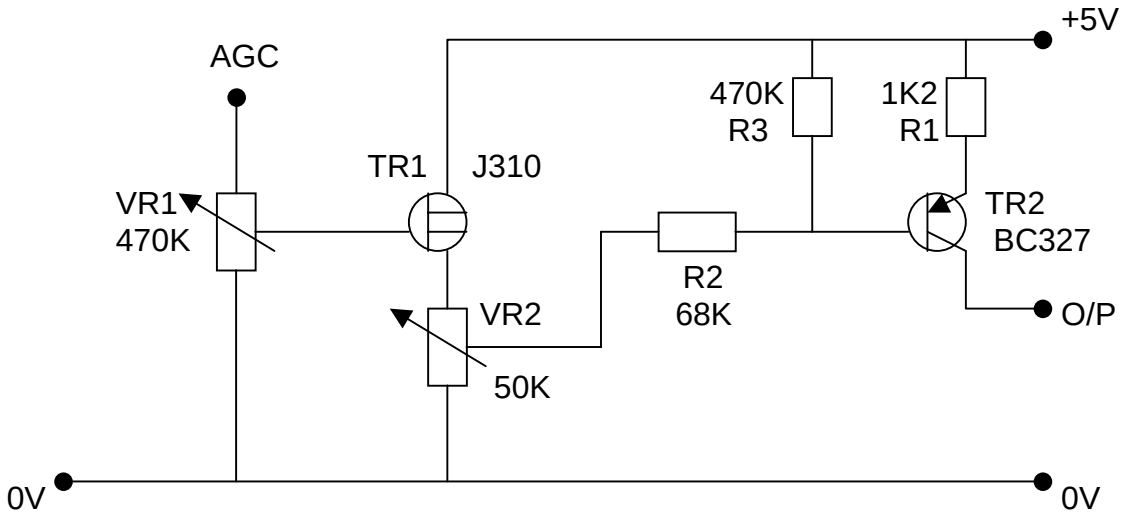
22 December 1999

AR3000A SIGNAL STRENGTH OUTPUT

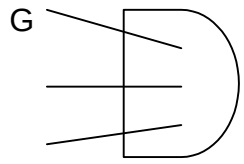
With the use of a small additional circuit, a signal strength output can be obtained to directly drive a 'S' meter. This output can be brought out on the normally unused ACC socket pin 8 (centre pin). Pin 2 can be used as ground.

The circuit to be used is as below;

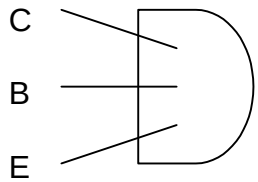


The output has enough range to drive a variety of meters but resistor values can be altered for specific circumstances.
VR1 adjusts input sensitivity.
VR2 adjusts span.
Alignment; Set up 'S0' with VR2 and 'S9' with VR1.
Both adjustments interact, so this may have to be repeated several times.
The meter used for test and initial set up is a low cost moving coil meter. Coil resistance is 675ohm and FSD required 250uA.

J310 (bottom view)

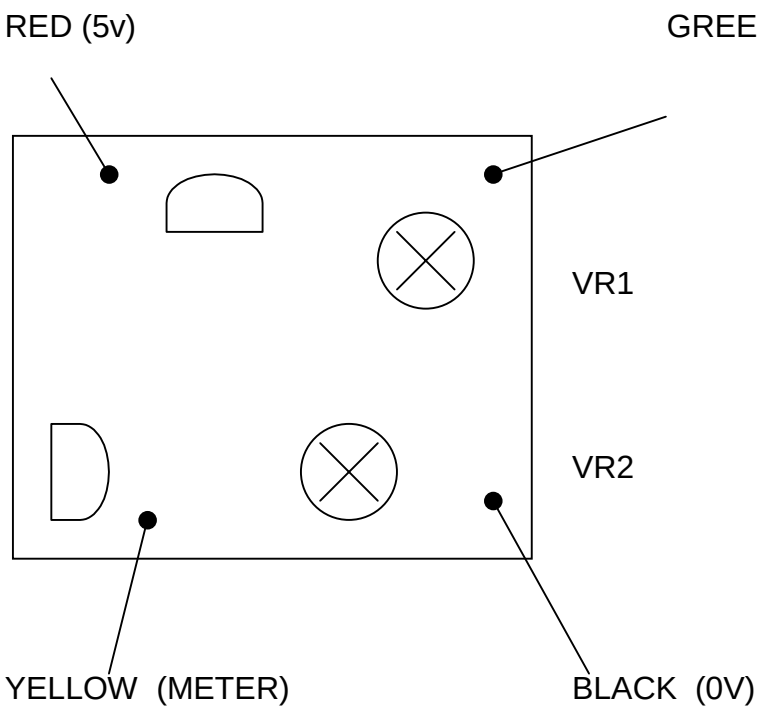


BC327 (bottom view)



Note; The BC327 fits the board as the per the layout, the J310 Gate has to be positioned to the centre pin.

AOR (UK) LTD
4E East Mill, Bridgefoot, Belper, Derbyshire. DE56 2UA. ENGLAND
Tel: 01773 880788 Fax: 01773 880780 e-mail: tony@aor.co.uk



On the AR3000A;

GREEN WIRE - AGC level is taken from J9 pin 10 (orange wire) on the IF unit.
YELLOW WIRE – Meter output is taken to ACC socket pin 8.
RED wire – 5V supply is taken from J3 pin 6 (orange wire) on the IF unit.
BLACK WIRE – Ground is taken from any earth point, power socket or ACC socket pin 2.
Components are mounted on the track side of the board to allow flush mounting in the set.

PCB

TRACK SIDE VIEW