



AR5000A / AR5000A+3 ADDENDUM (paperwork V1.0)

Due to continuous development of our products, the AR5000A has been enhanced in several areas. The upper frequency range has been extended to 3.0GHz (3000MHz) and the ACC1 audio is now squelch controlled making the revised model suitable for voice activated tape recording. The motor control is retained making the compatibility even wider.

- Frequency range 10kHz to 3000MHz
- ACC1 configuration has been amended with audio out now being squelch controlled

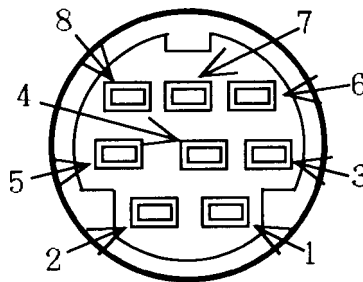
The following comparison chart between the AR5000/AR5000+3 and AR5000A/AR5000A+3 provides cross referencing to the specific page numbers of the operating manual:

Item	AR5000/AR5000+3	AR5000A/AR5000A+3	Page number
Frequency coverage	10kHz - 2600MHz	10kHz - 3000MHz	P.76
ACC1 socket Pin 7	low level audio not squelch controlled	audio squelch controlled with mute	P.10
ACC socket Pin 4 & 5	Tape motor switching contact	Tape motor switching contact still available but not needed when voice activated tape recorders are used	P.10

REASSIGNMENT OF ACC1 SOCKET

The AR5000A/A+3 provides squelch controlled audio output to pin 7 of the ACC1 connector. Tape motor control may still be used to pins 4 & 5. The audio levels have been revised, please refer to the information here and page 10 section 5-11 of the operating manual.

- Pin 1** 12V DC output, 30mA MAX
- Pin 2** Detector output
- Pin 3** Audio input
- Pin 4** Motor control 1
- Pin 5** Motor control 2
- Pin 6** Audio output, high level 330mV @ 600 OHMS
- Pin 7** Audio output, **squelch controlled** low level 2.5mV @ 600 OHMS
- Pin 8** Ground



CR5000 TAPE LEAD

The optional tape connecting lead CR5000 may still be used as switched audio will be provided via the 3.5mm mono jack plug of the lead, however if you are using a voice activated tape recorder, the 2.5mm mono jack plug previously used for tape motor switching does not have to be used.

EVOLUTION IN ACTION

SPECIFICATION

The specification shown below replaces that printed on page 76 section 22 of the operating manual.

Model	AR5000A / AR5000A+3
Frequency range	10kHz ~ 3GHz <i>Cell-blocked in the USA for FCC rules</i>
Tuning	NCO 1Hz ~ 999.999999kHz
Modes	AM, FM, USB, LSB & CW +3 includes Sync AM
I.F frequencies	1st I.F. 622.0 / 622.4 MHz, 2nd I.F. 10.7 MHz, 3rd I.F. 455 kHz
Standard fitted filters	3kHz, 6kHz, 15kHz, 30kHz, 110kHz & 220kHz (provision for 500Hz option)
Memory channels	1000 (100ch x 10 bank) TWICE
Search banks	20 banks TWICE
Memory scan speed	25 channels per second in standard mode, 45 channels per second (max) in <i>Cyber Scan</i>
Search speed	25 increments per second in standard mode, 45 increments per second (with step size of 100kHz or less) in <i>Cyber Search</i>
PASS frequencies	2100 total TWICE (21 banks x 100 ch inc VFO)
Priority	1 channel
I.F. output	10.7 MHz with maximum, ± 5 MHz bandwidth
External reference	10.0 MHz input
Operating temperature	0° to +50° C
Frequency stability	± 2.5 ppm (0° to +50° C)
Aerial input	50 OHM unbalanced. N-TYPE & SO239
Audio output (13.5V)	1.7 WATT into 8 OHMS @ 10% THD
Power requirements	nominal 13.5V d.c. (12 ~ 16V) @ 1A approx with 1W audio output
Size	217(W) x 100(H) x 260mm(D) mm approx excluding projections
Weight	3.5kg

Selectivity - IF filter bandwidth table

Filter kHz	Total noise (b'width kHz / dB)		Total skirt	
0.5 (500Hz)opt	0.5	-3	2.0	-60
2.5 opt	2.5	-3	5.2	-60
3	2.3	-6	5.0	-50
5.5 opt	5.5	-3	11.0	-60
6	6.0	-6	20	-50
15	14	-6	30	-50
30	27	-6	70	-50
110	90	-6	450	-50
220	200	-6	600	-50

Sensitivity

Receive frequency	10dB S/N AM 6kHz	12dB SINAD SSB/CW 3kHz	12dB SINAD FM 15kHz	12dB SINAD FM 220kHz
10kHz - 40kHz	-	22.3	-	-
40kHz - 100kHz	4.46	1.58	-	-
100kHz - 2MHz	2.23	0.71	-	-
2MHz - 40MHz	1.58	0.71	0.89	2.81
40MHz - 1,000 MHz	0.89	0.40	0.50	1.58
1,000MHz - 3.0 GHz	0.71	0.32	0.40	1.25

Specification is typical but not guaranteed, subject to change due to continuous development of the receiver. E&OE. © AOR Ltd 2003

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