HPF

RF AMP

MIX 1

MIX 2

VCO 1

VCO 2

45MHz BPF

SYNTHESISER 1

SYNTHESISER 2

* Rx 250uV
THIS RECEIVE TEST IS AT 45MHz
AND HAS A 10k RESISTOR
IN SERIES WITH THE 50ohm
SOURCE & CAPACITOR.

** NOT_FITTED

SEE NOTE 1

NOTES:
1. LINK 1.6 FOR 1.6-3.1
2. WHEN WIDE BAND FILTER Z202
IS USED, Z3 IS 7308kHz &
Z201 IS 1813kHz.

ALTERNATE OVEN ASSEMBLY

PCB 07-01768-03
ASSY 08-05322-001

ISSUE CHANGE

ISSUE 1
C138 WAS 8p2
C160 WAS 1n
C/R 25027
NJA 24-6-97

ISSUE 2
R52 WAS 10
C158 WAS 1p
C/R 25119
07-08-97 NGA

ISSUE 3
C127 WAS 33n
C/R 25149
17-09-97 NGA

ISSUE 4
C/R 25167
HI-STAB OVEN
WAS ALTERNATE
FIT. PCB ISSUE
UPDATED.
30-10-97 NJA

ISSUE 5
REF SHEET 2

ISSUE 6
D20-D23 WERE
BB609A, D31
WAS BB405A
V26 WAS BSD213
PCB WAS ISS -02
C/R 25951
GW 4-3-99

CODAN

MATERIAL	DRN	C G	DATE 10-9-96
	CHKD	MJS	3-4-97
FINISH	APPD	NJA	24-6-97

SCALE

TOLERANCES UNLESS OTHERWISE STATED
2 PLACES DEC. ±
1 PLACE DEC. ±
ANGULAR ±

TITLE
Rx/EXCITER
(RF MIXER & SYNTHESISERS)

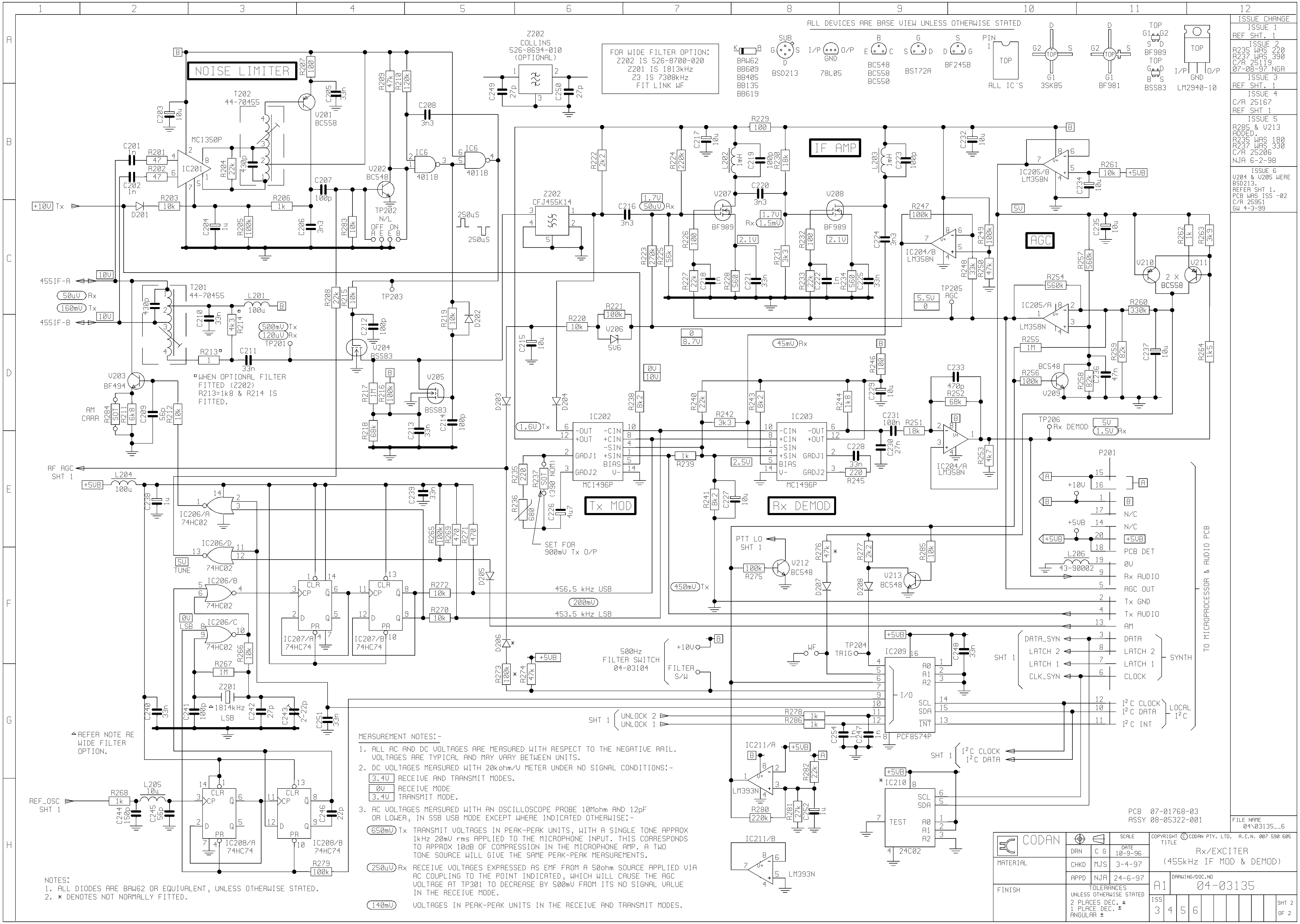
DRAWING/DOC.NO
04-03135

A1

ISS 3 4 5 6

SHT 1 OF 2

FILE NAME
04\03135__6



MEASUREMENT NOTES:-

1. ALL AC AND DC VOLTAGES ARE MEASURED WITH RESPECT TO THE NEGATIVE RAIL. VOLTAGES ARE TYPICAL AND MAY VARY BETWEEN UNITS.
2. DC VOLTAGES MEASURED WITH 20kohm/V METER UNDER NO SIGNAL CONDITIONS:-
   - 3.4V RECEIVE AND TRANSMIT MODES.
   - 0V RECEIVE MODE
   - 3.4V TRANSMIT MODE.
3. AC VOLTAGES MEASURED WITH AN OSCILLOSCOPE PROBE 10Mohm AND 12pF OR LOWER, IN SSB USB MODE EXCEPT WHERE INDICATED OTHERWISE:-
   - 650mV Tx TRANSMIT VOLTAGES IN PEAK-PEAK UNITS, WITH A SINGLE TONE APPROX 1kHz 20mV rms APPLIED TO THE MICROPHONE INPUT. THIS CORRESPONDS TO APPROX 10dB OF COMPRESSION IN THE MICROPHONE AMP. A TWO TONE SOURCE WILL GIVE THE SAME PEAK-PEAK MEASUREMENTS.
   - 250uV Rx RECEIVE VOLTAGES EXPRESSED AS EMF FROM A 50ohm SOURCE APPLIED VIA AC COUPLING TO THE POINT INDICATED, WHICH WILL CAUSE THE AGC VOLTAGE AT TP301 TO DECREASE BY 500mV FROM ITS NO SIGNAL VALUE IN THE RECEIVE MODE.
   - 140mV VOLTAGES IN PEAK-PEAK UNITS IN THE RECEIVE AND TRANSMIT MODES.

NOTES:
1. ALL DIODES ARE BAW62 OR EQUIVALENT, UNLESS OTHERWISE STATED.
2. * DENOTES NOT NORMALLY FITTED.

CODAN		SCALE	COPYRIGHT © CODAN PTY. LTD. A.C.N. 007 590 605
	DRN	C G	DATE 10-9-96	TITLE Rx/EXCITER (455kHz IF MOD & DEMOD)
MATERIAL	CHKD	MJS	3-4-97	
	APPD	NJA	24-6-97	DRAWING/DOC.NO A1 04-03135
FINISH	TOLERANCES UNLESS OTHERWISE STATED 2 PLACES DEC. ± 1 PLACE DEC. ± ANGULAR ±		ISS 3 4 5 6	SHT 2 OF 2

FILE NAME 04\03135__6