ANTENNA CONTROL FACILITY

CABLE ASSEMBLY 08-03167

J201: PTT OUT (+10V), 0V, N.C, 0V, N.C, SCAN (ACTIVE ANTENNA), TUNE IN/OUT, TUNED IN, N.C, BINARY CODED CHANNEL NUMBER 2 8 1 4

OPTION 'M' MORSE KEY 08-03261

OPTION 'R'

P502: 0V, LOUDSPEAKER, REMOTE P.T.T., RECEIVER AUDIO I/P, POWER ON, TRANSMIT AUDIO I/P, DATA (I²C BUS), RECEIVER DEMODULATOR O/P, 0V, RECEIVER AUDIO O/P, TRANSMIT LAMP, INTERRUPT, DATA LINE ENABLE, CLOCK (I²C BUS)

REMOTE CONTROL & FILTER CABLE 08-03170

J501 / P501

REMOTE CONTROL & FILTER PCB 08-03127 ASSY 07-01032 PCB

L1 44-80044, L2 1mH, L3 44-80044, L4 44-80044

5×1K R502

EXTENSION L/S

SPEAKER CABLE 08-03240

P20 / J1 44-80044

TO PA P2

C18 5µ

EXCITER OUTPUT, 0V, 0V, RECEIVER INPUT

OPTION 'PS' CABLE ASSEMBLY 08-03232

J301: QUIET LINE, PTT, SCAN, ALARM TONES, FSK Tx TONES INPUT, Rx FSK TONES OUTPUT, 0V

J302 / P301

L301 44-80044, C307 33n

TO P1 PA & FILTER PCB. 08-03743 04-02452

PA LOW PASS FILTER, TRANSMIT LAMP, PA LOW PASS FILTER, POWER RELAY, PA LOW PASS FILTER, PA LOW PASS FILTER, PA LOW PASS FILTER, TRANSMIT RELAY, PA LOW PASS FILTER

HI/LO PWR ON PA

P3 / P7

FAN P21

IC1 OM788 10V, IC2 7805

Z1, V1 BC558, D1

L6 44-80044

C9 33n

P8, P9

J5: 2-3.1, 3.1-4.8, 4.8-7.5, 7.5-11.6, 11.6-18, 2-3.1, 4.8-7.5, 3.1-4.8, 7.5-11.6, 11.6-18

C15 68p, C16 0.1µ

P4 / J6

P2 / J1

HIGH PASS FILTER, PA LOW PASS FILTER, TO I/P MORSE HI/LO PWR

AM, SELCALL PTT, QUIET LINE, SCAN, ALARM TONES, 0V, INTERRUPT, DATA LINE ENABLE, CLOCK, DATA

EXTERNAL SELCALL SCAN OPTION 'PS'

V302 BC548, V303 BC548, V301 BC548

J2 P1

OV, LOUD SPEAKER

AUDIO PA DISABLE, AUXILIARY L/S INPUT

VOLUME CONTROL (BINARY CODED) 1 2 4 8

* REMOVE WHEN OPTION RC FITTED

J3 P2

MUTE DETECT, FORCE UNMUTE, FORCE MUTE, PRE-VOLUME I/P, 0V

POST MUTE O/P, PRE. MUTE I/P, DEMODULATOR O/P

AUDIO & IF 16.50kHz PCB 08-03025 04-02093

OPTION RC

IC401a, IC401b

TO P19/5

P5 / J2

TUNE IN/OUT, TUNED IN, MUTE IN, FORCE UNMUTE, P.T.T. IN, UNLOCK IN, USB/LSB, TUNE CARRIER, VOLUME CONTROL 8 4 2 1

MICRO-PROCESSOR CONTROLLER P.C.B 08-03779 04-02451

OPTION LINK 3 EXTERNAL ALARM OPTION LINK 1

OPTION LINK 2 INTERNAL SELCALL

P6 / J3

AUDIO PA DISABLE, C/D RELAY, BEEPS, POWER OFF, 18-24 HIGH PASS FILTER, FORCE MUTE, 0V, Tx TONES, SIDE TONE (L/S)

P1

INTERNAL SELECTIVE CALL OPTION LINKS

INTERNAL SELECTIVE CALL OPTION

P7: FSK DEMODULATOR I/P, 0V, EXTERNAL ALARM I/P

SELCALL P.C.B. 08-03300 04-02250

P2: FSK DEMODULATOR O/P, +5V, 0V, 0V, CLK, DATA — INTERNAL I²C BUS

V2 BC558, D5, D6, K2 LATCHING RELAY, ON/OFF

SPARE SYNTHESISER LATCH, CLOCK, DATA, SYNTHESISER LATCH 1, SYNTHESISER LATCH 2

J4 P10

P12 / J1: RECEIVER INPUT 18-0-24-0, 11-6-18-0, 7-5-11-6, 0V, 4-8-7-5, 3-1-4-8, 2-0-3-1 — HIGH PASS FILTER SELECT (NEGATIVE LOGIC)

P13 / J2: EXCITER OUTPUT, 0V, 0V, 0V

R.F. & SYNTHESISER P.C.B 08-0374-0 04-02450

P14 / J3: SYNTHESISER LATCH 2, DATA, CLOCK, SYNTHESISER LATCH 1, SYNTHESISER UNLOCKED, 0V, 0V, +5V Rx, USB/LSB, TUNE CARRIER

P15: CLOCK, INTERRUPT, DATA 2, DATA 1, DATA LINE ENABLE, POWER ON, 0V, +5V, TRANSMIT LAMP

TO FRONT PANEL P.C.B 08-03746 04-02454 8528; 08-03944 04-02579 8525

C1 IC1 C2 IC2 C3

P21 FAN

P22 DM +5

TO P5/2

V3 BC548, V4 BC548

MOTHER BOARD ASSY 08-03744 ASSY. 07-01244 P.C.B.

ALL DIODES BAW62 OR EQUIVALENT

FIT A 470Ω RESISTOR ACROSS R17 WHEN OPTION C8 IS FITTED

OPTION PH J601, R602 330, R601 330, C601 1n

FRONT PANEL LOUD SPEAKER 8Ω

CUT WHEN OPTION PH FITTED

L2 44-80044, C12 1n, C13 1n, C14 33n, L3 1mH, L4 1mH

DIGITAL SCRAMBLER OPTION 'DS'

MIC. SOCKET P21

PTT

MICROPHONE

BC548 EBC, BC558 ECB, BF245B SDG, ALL IC's PIN 1 TOP

ISSUE 6 CR 2225 15-3-89

ISSUE 5 CR 2225 8-12-88

ISSUE 4 CR 2222 27-3-91

ISSUE 3 CR 2249 15-8-90

ISSUE 2 CR 2558 15-2-93

ISSUE 1 CR 2350 30-6-89

ISSUE 7 CR 2434 17-7-95

ISSUE 8 CR 2434

CODAN | SCALE | DRWN CF 27-3-88 | CHKD 19-4-89 | APPD 14-9-89 | MATERIAL | FINISH | TOLERANCES UNLESS OTHERWISE STATED: 2 PLACES DEC ±, 1 PLACE DEC ±, ANGULAR ±

TITLE: MOTHER BOARD & CHASSIS CIRCUIT

DRAWING/DOC NO. B 04-02453

SIZE A1 | SHT 1 OF 1

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