From Antenna via P.A. Module

OPTIONAL EXTRA R.F. AMPLIFIER Q101

R.F. AMPLIFIER Q102

BALANCED MIXER Q103 Q104

BUFFER AMPLIFIER Q105

DELAY LINE

NOISE REDUCER IC101 IC102 Q109 Q110 Q111

10·7 MHz. XTAL FILTER XF101

I.F. AMPLIFIER Q201 Q202

10·7 MHz XTAL FILTER XF201

I.F. AMPLIFIER LIMITER/DETECTOR IC201

AGC

AUDIO PRE AMP IC202d

Volume

AUDIO POWER AMPLIFIER IC203

Side tone

Speaker

High signal fast squelch Q207

Squelch Q206

SQUELCH CONTROL Q203 Q204 IC202 a,b,c

Squelch Level

BUSY L.E.D. SWITCH Q205

Busy L.E.D.

RECEIVER P.C.B.

CONTINUOUS REGULATORS IC301 Q305;306;307

5v. Regulated

10v. Regulated

Mic. Pressel

Selcall

C.T.C.S.S.

TX/RX SWITCH & TIMERS IC303a,b,c,d

REGULATOR SWITCH Q308 Q309

Rx. Regulated, switched

Tx. Regulated, switched

Selcall

C.T.C.S.S.

AUDIO PROCESSOR IC302 a,b,c,d Q301 ; Q302 ; Q303

Mic.

Deviation Control

TX RX OFFSET CONTROL Q408,D406

Buffer

Reference

Q401

To B.C.D. Channel switch

PROGRAMMABLE CHANNEL MEMORY MODULE

P.L.L. CONTROL IC401

CHARGE PUMP LEVEL TRANSLATOR Q402 — Q405

LOOP FILTER Q407

VCO &BUFFER Q409 ; Q410

VCO OUTPUT SWITCH & BUFFER Q412;D409;410

EXCITER OUTPUT Q413

HOOK SWITCH Q480;481;482

SPEED UP CCT LOCK DETECTOR IC402

PRESCALER & BUFFER IC403 Q411

OUT OF LOCK CROW BAR Q313

POWER CONTROL Q314 Q315

TX. LED DRIVE Q310,311

TX LED

Receiver Exciter Supply

on/off

HASH FILTER

+v. from battery

Antenna

POWER SENSE D503

ANTENNA AND SWITCH FILTER D501 D502

DRIVER Q501

POWER AMPLIFIER Q502

P.A. MODULE

P.A. BI-PASS Q490 Q491

TRANSMITTER P.C.B.

USED ON

SCALE :
MATERIAL :
FINISH :
GEN. LIMITS :

THIRD ANGLE PROJECTION

IPN

ISSUE	AMENDMENTS	DRN.	CHKD	APVD	DATE
A	ORIGINAL	W.W.	[illegible]	[illegible]	11/83

ISSUE	AMENDMENTS	DRN.	CHKD	APVD	DATE

BLOCK DIAGRAM T498 & T499

TAIT ELECTRONICS Ltd.
Christchurch New Zealand

DRAWING NUMBER A2C428

ISSUE A