



T2000 & T3000 ERROR CODES

The information supplied here is to be used only as a guide. Not all codes apply to all models and some codes are model specific. This information is provided to assist in determining the cause of a problem only. In some instances, the error message may be caused by an error in a completely different location, in these cases the error message may be of little value.

01=HEAP OVERLAP	48=n/a
02=HEAP EXHAUSTED	49=n/a
03=INVALID HEAP ADDRESS	50=INVALID BCD DATA
04=INVALID TASK NUMBER	51=MESSAGE DATA
05=INVALID TIMER NUMBER	52=STACK OVERFLOW
06=INVALID TIMER	53=INVALID STRING STORE OVERFLOW
07=INVALID MESSAGE CATEGORY or PATH	54=INVALID QUEUE BUTTON
08=INVALID MESSAGE CODE or TYPE	55=INVALID QUEUE TIMEOUT
09=SOFTWARE INTERRUPT	56=DISPLAY MODE
10=INVALID QUEUE NUMBER	57=LANGUAGE POINTER UNINITIALISED
11=INVALID USER CHAR	58=INVALID QUEUE DISPLAY
12=INAPPROPRIATE TAST TYPE	59=INVALID QUEUED
13=ILLEGAL OPCODE	60=INVALID TRUNKPERS MODE
14=XIRQ INTERRUPT	61=SDMQUEUE FULL
15=CANT CREATE ANY MORE TIMERS	62=SDM RX
16=CANT CREATE ANY TIMERS	63=FLASH PERSONALITY INVALID
17=TIMER DOES NOT EXIST	64=n/a
18=TIMER ALREADY EXISTS	65=n/a
19=INVALID TIMER VECTOR	66=n/a
20=INVALID CODEWORD RECEIVED	67=n/a
21=INDICATOR BYTE ERROR	68=INVALID CHANNEL NUMBER
22=TRANSMISSION TIMEOUT	69=CHANNEL BLOCK CALCULATION
23=CODEWORD FIELD PARAMETER	70=SYSNT FREQUENCY NUMBER TOO BIG
24=INVALID CALL REQUEST	71=ILLEGAL TRANSMITTER POWER LEVEL
25=TEST MODE RESET VECTOR INCORRECT	72=INAPPROPRIATE DATABASE ITEM TYPE
26=TASK SUSPENSION CALL	73=INVALID ANN NUMBERING MODEL
27=TASK QUEUE	74=INVALID BAUD RATE
28=n/a	75=UNPROGRAMMER DYNAMIC ITEM
29=n/a	76=INVALID GROUP ADDRESS
30=MSK RX CRC NOT READY	77=INVALID PRESET CALL
31=MSK TX TIMER	78=INVALID DIALLING SCHEME
32=MSK TX INTERRUPT	79=INVALID PRESET LABEL
33=MSK TX CRC NOT READY	80=RX OVERFLOW
34=MAK TX UNLOCKED	81=AUDIO TONE FUNCTION
35=n/a	82=INVALID AUDIO TONE NUMBER
36=n/a	83=CCI RX BUFFER OVERFLOW
37=n/a	84=INVALID CALL TYPE
38=n/a	
39=n/a	
40=INVALID MESSAGE	
41=INVALID PERSONALITY	
42=INVALID DATA	
43=LOGON CHAR	
44=INVALID LOGPERS STATUS	
45=INVALID LOGPERS POWERUP MESS	
46=INVALID LOGPERS NEXT STATE	
47=n/a	

1 to 12	µProcessor tasks	Processor unable to perform errors task due to software or hardware fault (catastrophic condition).
13	Illegal opcode	Illegal operating code due to: <ul style="list-style-type: none"> - Eprom corruption - Ctrl board hardware failure. - The µP has detected an invalid EPROM value.
14 to 21	Timer and processing errors	The µProcessor cannot function due to software or hardware problems. The µP's XIRQ line has a low present. This line should always be high.
22	Transmission timeout	An FFSK transmission has not been completed within an appropriate time (check TXSYNC line from the MODEM to the µP). The µP has not received proper synchronising signals from the FFSK modem during transmit mode.
30	FFSK receive error	FFSK CRC calculation error.
31 to 33	FFSK transmit error	FFSK to be transmitted corrupted or FFSK timing error.
34	Synthesiser not locked	Synthesiser taking too long to lock up.
40 to 60	Software error codes	Not helpful for servicing.
70 to 79	Programming errors	Incorrect programming of the radio. Causes: <ul style="list-style-type: none"> - Wrong programming software used. - Wrong or invalid data programmed into radio.

T2000 - Out of lock indication

T2010	The active channel light is on and all other channel lights flash.
T2015	The right hand channel digit flashes.
T2020	Both BUSY & TX lights flash.

Trunking error messages

U1 – ESN – ERROR	The radios ESN, has become corrupt. The radio will have to be returned to TAIT to be re-formatted.
U2 – DATA – ERROR	The programming of the radio has been lost or corrupt. Programme the radio.
U3 – ECC – ERROR	Either the wrong firmware has been fitted to the logic board, in which case fitting the correct firmware should clear the problem. Or the ECC has become corrupt, in which case the radio should be returned to TAIT.
UA0	Function unavailable.
UA1	Out of range, no communications with the network.
UA2	Called unit, out of range, or switched off.
UA3	Invalid selection.
UA4	Called unit engaged – try again later.

Specific errors

ERROR MESSAGE	MODEL	ACTION
Error 0	T700	RAM problem.
Error 02	ALL	A request for a block of dynamic memory from the heap cannot be satisfied, as there is insufficient memory available.
Error 02	ALL	The available memory inside the μ P, for storing events, has been used up. For example this error may occur if the PTT is repeatedly used in quick succession.
Error 13	ALL	The μ P has encountered an illegal instruction. This should not happen in normal use but may occur if there is a problem on the μ P bus.
Error 14	ALL	The μ P has detected a logic low on it's XIRQ pin. This line should always stay high.
Error 22	ALL	The μ P is not receiving correct synchronisation signals form the FFSK modem during transmit mode.
Error 31	ALL	The μ P could not reply to an incoming code word within the required time.
Error 34	ALL	TX VCO out of lock.
Error 68	ALL	The radio has tried to tune to an invalid channel number.
Error 70	T2035	Change firmware to v3.10 or later.
Error 70	ALL trunking	The channel number the radio has just selected is invalid (not permitted according to the network parameters). This may occur if a mistake is made during programming and the network parameters "highest and lowest channel in network" have been set wrongly, or changed after setting all other channel parameters.
Error 75	ALL	The frequency of the channel, which has just been selected, is invalid (outside the limits allowed for the radio). This error is usually the result of setting up the channel blocks (trunking) incorrectly at the time it was programmed.
Error 80	ALL	The micro is receiving a continuous active signal on the serial link from the control head (T700TR's), or programming equipment (T500TR's). This will be visible as a low logic level at the serial input port of the μ P.
CONF--ERR	T2020 T2030 T2035 T2040 T2050	This happens if the radio's configuration codes become corrupt. Switch off radio, short "factory" test points, switch on radio for 5 seconds, switch off radio and remove link. When the radio is switched back on it should show "PROG", if so programme the radio with a known good file. Trunking radios may still not work and may need to be returned to Tait to have their electronic serial numbers re programmed.
PROG	T2020 T2040 T2050	The radio has lost it's setup information. Re-program with a known good setup file.