

# Jumper Settings

## SSCB Jumper Settings

Table G-1 identifies the jumper settings for the Secure Station Control Board (SSCB). Figure G-1 shows the location of the jumpers on the SSCB.

*Table G-1 SSCB 3-pin Jumper Settings*

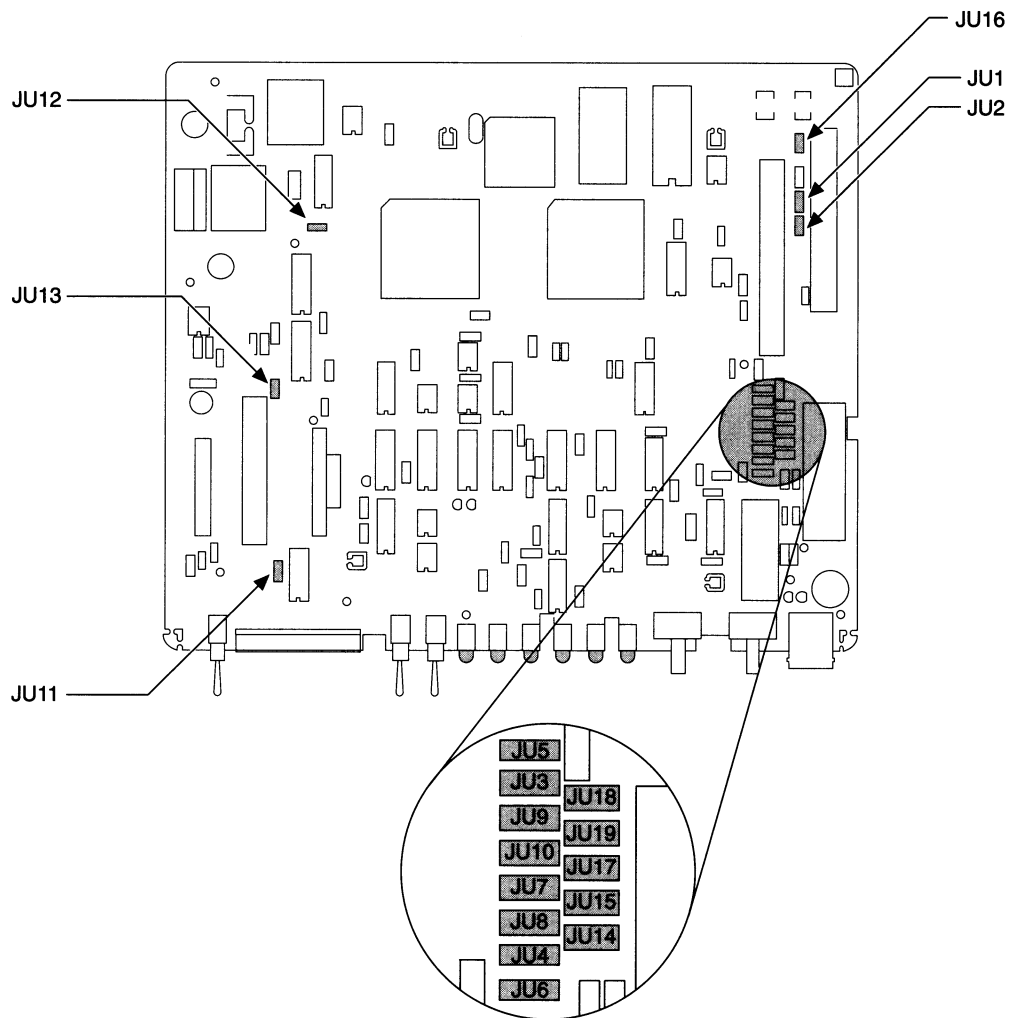
Jumper	Description	Normal Position	Alternate Position
JU1	TTRC HSR	TTRC present	TTRC not present
JU2	Secure HSR	Secure not present	Secure present
JU3	Coded modulation audio	Secure not present	Secure present
JU4	Post-IDC TX data	data present	data not present
JU5	Trunking modulation audio	TTRC present	TTRC not present
JU6	Transmit data path	No data	TX data around splatter filter
JU7	RX2 wireline	no RX2 to wireline	RX2 to wireline
JU8	RX2 audio	RX2 not present	RX2 present
JU9	Secure alert tones	Secure not present	Secure enc/dec present
JU10	Secure RX audio	Secure not present	Secure present
JU11	RX diversity audio	no diversity	diversity
JU12	+5 Vdc	+5 Vdc on SSCB	+5 Vdc supplied on RF Tray †
JU13	RF tray +5 Vdc	no +5 V to RF tray	+5 V to RF tray
JU14	SAM TX audio	No audio out	SAM TX audio via splatter filter
JU15	Pre-IDC TX data	data not present	data present
JU16	Exp TX audio select	processed transmit audio to J800	raw transmit audio to J800
JU17	SAM line audio	SAM audio not routed to line	SAM audio routed to line
JU18	RX1 gate control	via logic section	via squelch section
JU19	MPT squelch to exp conn	fast key from J800	MPT squelch from J800
JU20 ‡	Secure coded modulation gain	high gain	low gain ††

**SSCB Jumper Settings**

**Table G-1 SSCB 3-pin Jumper Settings (Continued)**

Jumper	Description	Normal Position	Alternate Position
JU21 ‡	Wattmeter A-D resolution	low power stations	high power stations ‡‡
JU22 ‡	Wattmeter A-D resolution	low power stations	high power stations ‡‡

† For upgrading stations from analog to digital.  
 †† Use for TLN3045B and earlier.  
 ‡ Present on data SSCB only.  
 ‡‡ High power refers to 75 Watt PAs and above (TLN3318A, TLN3319A, TLN3320A, and TLN 3342A).



**Figure G-1 SSCB Jumper Locations**

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## TTRC Jumper Settings

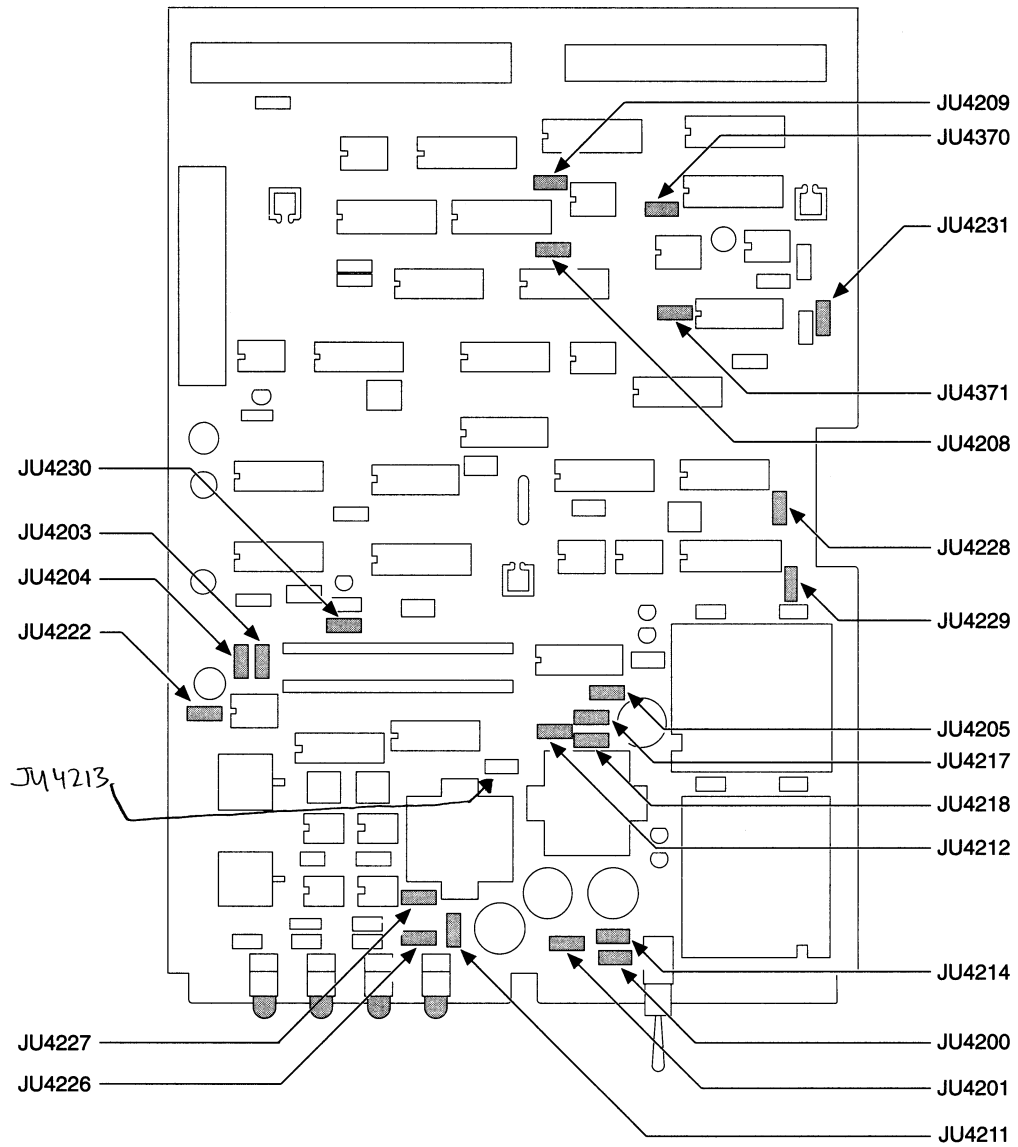
The TTRC jumper settings are configured on the TTRC Audio board. All jumper settings are described in Table G-2. Figure G-2 shows the jumper locations for TTRC Audio board.

Table G-2 *TTRC Jumper Settings*

Jumper	Description	Normal Position	Alternate Position
JU4200	Line 3 termination	600 $\Omega$	900 $\Omega$
JU4201	Line 1 termination	600 $\Omega$	900 $\Omega$
JU4203	TX audio notch filter	enabled	disabled
JU4204	Wireline TX audio notch filter	enabled	disabled
JU4205	Line 2 TX cancellation circuit	2-wire audio	4-wire audio
JU4208	Trunked modulation audio	TX data	Gen TX audio
JU4209	RDM/WBM simulcast	RDM	WBM
JU4211	Line 1 DC blocking cap	DC control	Secure present
JU4212	Line 2 DC blocking cap	DC control	Secure present
JU4213	Line 3 DC blocking cap	DC control	Secure present
JU4214	Line 4 DC blocking cap	DC control	Secure present
JU4217	Line 2 termination	600 $\Omega$	900 $\Omega$
JU4218	Line 4 termination	600 $\Omega$	900 $\Omega$
JU4222	Line 2 interrupt circuit	2-wire audio	4-wire audio
JU4226	DC control (+) input	2-wire audio	4-wire audio
JU4227	DC control (-) input	2-wire audio	4-wire audio
JU4228	Line 2 output level	0 dBm	-10 dBm
JU4229	Line 4 output level	0 dBm	-10 dBm
JU4230	ALC bypass circuit	ALC active	fixed gain †
JU4231	2175 Hz status tone noise filter	2175 Hz status tone	Not 2175 Hz status tone
JU4370	Gen TX data input	non-simulcast	simulcast
JU4371	Gen TX data input	non-simulcast	simulcast
R4381	For SP simulcast (0 $\Omega$ )	not present	present for simulcast (SP)

† Using this jumper position requires a fixed level of HLG (12.5,  $\pm 2.5$  dBm) for proper operation.

**TTRC Jumper Settings**



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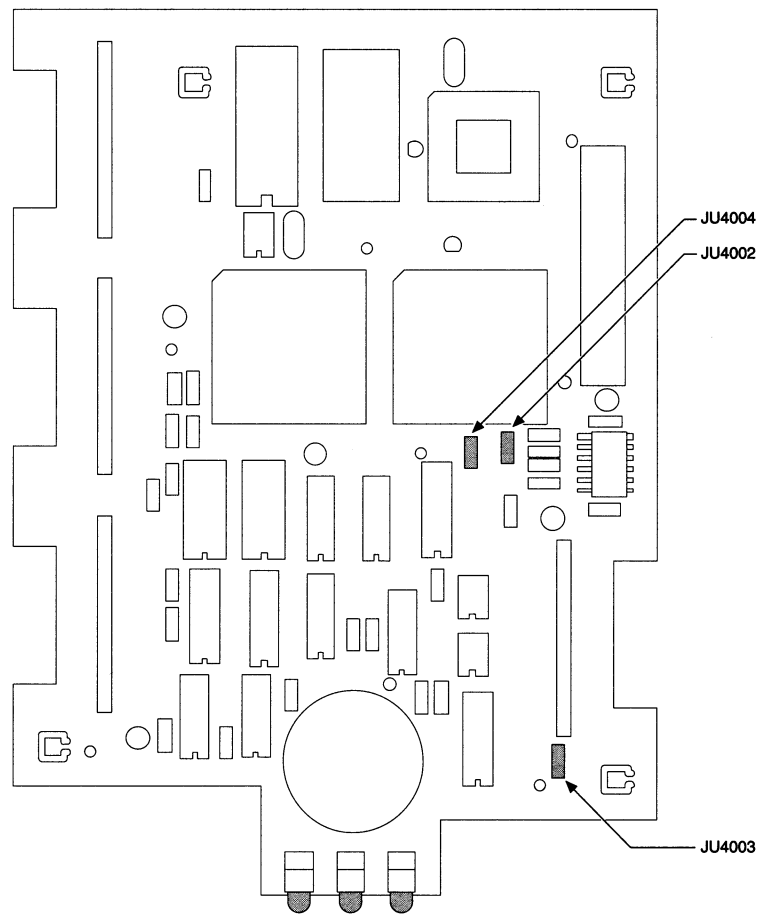
**Figure G-2 TTRC Audio Board Jumper Locations**

## Secure Board Jumper Settings

Table G-3 identifies the 3-pin jumper settings for configuring the encryption capability of the Secure board. Figure G-3 shows the jumper locations for the Secure board.

Table G-3 *Secure Board 3-pin Jumper Settings*

Jumper	Description	Normal Position	Alternate Position
JU4002	Remote key reset	disabled	enabled
JU4003	MRTI audio encryption input	no MRTI audio	MRTI audio
JU4004	Receive audio equalizer, filter, and limiter	filter present	filter not present



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Figure G-3 *Secure Board Jumper Locations*