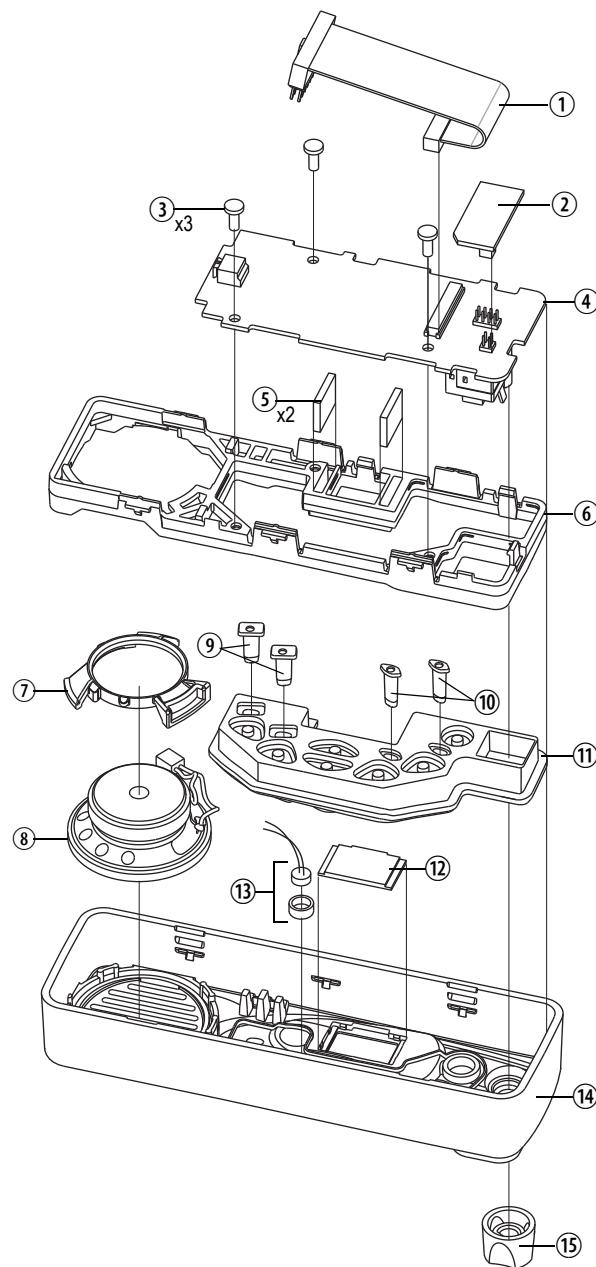


**Table 8.2 Spare parts of the graphical control head**

<b>Pos.</b>	<b>Description</b>	<b>Qty.</b>	<b>IPN<sup>1</sup></b>	<b>Spares Kit<sup>2</sup></b>
①	M4 x 12 Taptite screw	2	349-02058- <b>xx</b>	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
②	Adaptor flange	1	301-00020- <b>xx</b>	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
③	Control head loom (with female-female adaptor) – female-female adaptor	1	219-02882- <b>xx</b> 240-00021-41	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
④	3 x 10 PT screw	4	346-10030- <b>xx</b>	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
⑤	Control head board	1	–	T02-00032-0003
⑥	Seal	2	362-01124- <b>xx</b>	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
⑦	Short light pipe	1	262-00003- <b>xx</b>	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
⑧	Long light pipe	1	262-00004- <b>xx</b>	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
⑨	Space frame	1	319-30077- <b>xx</b>	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
⑩	Speaker clamp	1	303-50111- <b>xx</b>	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
⑪	Speaker	1	252-00011- <b>xx</b>	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
⑫	LCD assembly (including LCD seal) <sup>3</sup>	1	–	T02-00032-0004
⑬	Main keypad - F1, F2, F3, F4	1	311-03124- <b>xx</b>	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
	Main keypad - E, L, S, A	1	311-03187- <b>xx</b>	–
⑭	Power keypad	1	311-03120- <b>xx</b>	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
⑮	Concealed microphone	1	–	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
⑯	Front-panel assembly	1	–	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)
⑰	Knob for volume-control potentiometer	1	311-01054- <b>xx</b>	T02-00032-0001 (TM9300) T02-00032-0002 (TM9400)

1. The characters **xx** in an IPN stand for the issue number. Items will always be the latest issue at the time the radio is manufactured.
2. Spares kits T02-00032-0001 (TM9300) and T02-00032-0002 (TM9400) contain an assembled control head without control head board, concealed microphone and LCD assembly.
3. The LCD seal IPN 362-01126-**xx** is part of the LCD assembly and must be replaced whenever the LCD is replaced. This seal is included in the T02-00032-0004.

Figure 8.4 Spare parts of the 2-digit control head



Use [Table 8.3 on page 187](#) as the key to this figure.

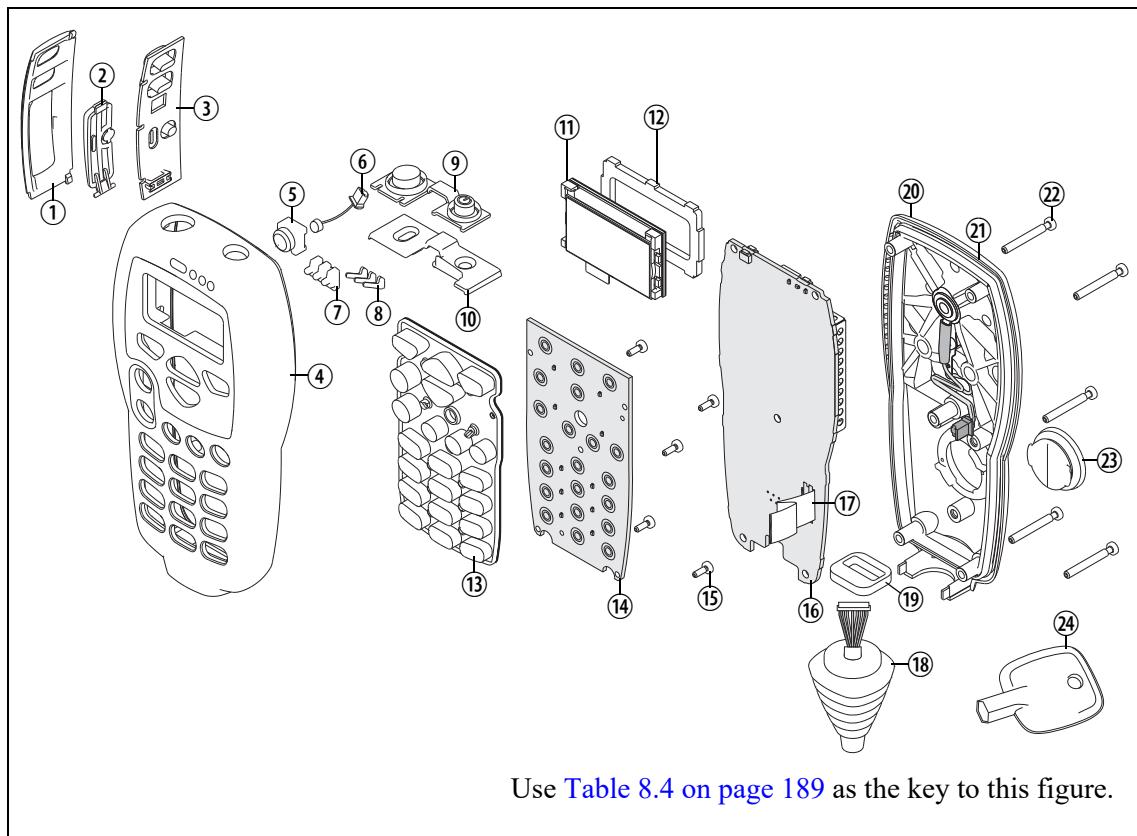
**Table 8.3 Spare parts of the 2-digit control head**

Pos.	Description	Qty.	IPN	Spares Kit <sup>1</sup>
①	Control-head loom (with female/female adaptor) – female-female adaptor	1	219-02882- <b>xx</b> 210-00021-41	TMAA22-01
②	Control-head options board (optional) – dynamic microphone board	1	–	TMAA02-06
③	3 x 8 PT screw	3	346-10030-08	TMAA22-01
④	Control-head board	1	–	TMAA22-03 (x6)
⑤	Elastomeric strip	2	209-00011- <b>xx</b>	TMAA22-01
⑥	Space frame	1	319-30073- <b>02</b>	TMAA22-01
⑦	Speaker clamp	1	303-50111- <b>xx</b>	TMAA22-01
⑧	Speaker	1	252-00011- <b>xx</b>	TMAA22-01
⑨	Short light pipe	1	262-00003- <b>xx</b>	TMAA22-01
⑩	Long light pipe	1	262-00004- <b>xx</b>	TMAA22-01
⑪	Keypad	1	311-03114- <b>xx</b>	TMAA02-01
⑫	LCD	1	008-00031- <b>xx</b>	TMAA22-01
⑬	Concealed microphone (future release)	–	–	–
⑭	Front-panel assembly	1	–	TMAA22-01
⑮	Knob for volume-control potentiometer	1	311-01054- <b>xx</b>	TMAA22-01

The characters **xx** in an IPN stand for the issue number. Items will always be the latest issue at the time the radio is manufactured.

1. Spares kit TMAA22-01 contains an assembled 2-or 3-digit-display control head without the control-head board. Spares kit does not include the optional parts of the concealed microphone.

**Figure 8.5 Spare parts of the hand-held control head**

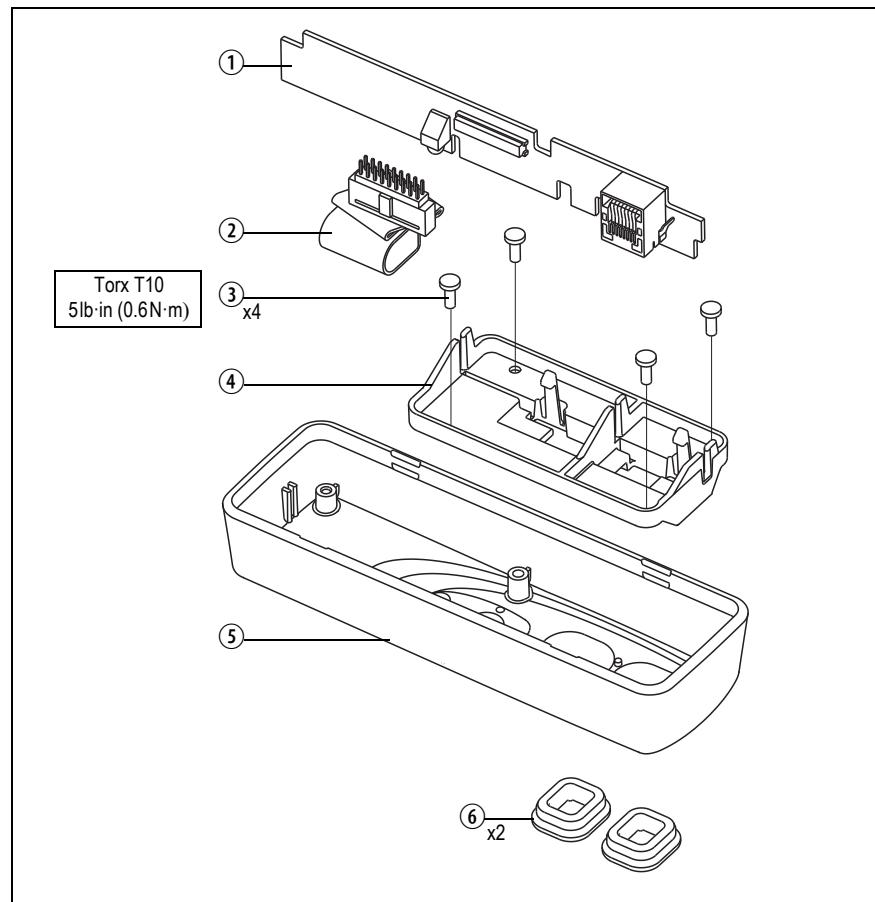


**Table 8.4 Spare parts of the hand-held control head**

Pos.	Description	Qty.	IPN <sup>1</sup>
①	PTT keypad frame	1	306-01050- <b>xx</b>
②	PTT keypad actuator	1	311-03132- <b>xx</b>
③	PTT/function key keypad	1	311-03133- <b>xx</b>
④	front panel, including lens (TM9300) front panel, including lens (TM9400)	1 1	contact Tait Support
⑤	microphone grommet	1	360-02032- <b>xx</b>
⑥	microphone and loom	1	219-03088- <b>xx</b>
⑦	light spreader	1	304-07039- <b>xx</b>
⑧	light pipes <sup>2</sup>	3	262-00011- <b>xx</b>
⑨	top keypad	1	311-03134- <b>xx</b>
⑩	keypad support	1	306-01051- <b>xx</b>
⑪	LCD assembly, including loom	1	008-00044- <b>xx</b>
⑫	foam tape for LCD assembly	1	369-01060- <b>xx</b>
⑬	main keypad	1	311-03135- <b>xx</b>
⑭	user interface (UI) board	1	T02-00075- <b>xxxx</b>
⑮	K18x5 T6 PT screw	5	349-00030-02
⑯	main board	1	T02-00074- <b>xxxx</b>
⑰	main to UI board loom	1	219-03114- <b>xx</b>
⑱	curly cord to radio body	1	219-03080- <b>xx</b>
⑲	foam tape	1	369-01063- <b>xx</b>
⑳	rear panel, including hookswitch and loom	1	contact Tait Support
㉑	rear panel seal	1	369-01062- <b>xx</b>
㉒	K25x20 T7 PT screw	5	346-10025-20
㉓	programming cover and seal	1 1	303-23188- <b>xx</b> 369-01061- <b>xx</b>
㉔	tool for programming connector cover	1	319-60100- <b>xx</b>

1. The characters **xx** in an IPN stand for the issue number. Items will always be the latest issue at the time the radio is manufactured.
2. For hand-held control heads other than black: A 7 mm length of heat shrink (IPN 400-00020-06) is slid over each light pipe, to provide additional light shielding.

**Figure 8.6 Spare parts of the programming control head**



**Table 8.5 Spare parts of the programming control head**

Pos.	Description	Qty.	IPN
①	Control-head board	1	T02-00086-AAAA
②	Control-head loom (with female/female adaptor) – female-female adaptor	1	219-02882- <b>xx</b> 210-00021-41
③	3 x 8 PT screw	3	346-10030-08
④	PCB bracket	1	302-10063- <b>xx</b>
⑤	Front panel	1	316-06843- <b>xx</b>
⑥	RJ45 bung	2	302-50002- <b>xx</b>

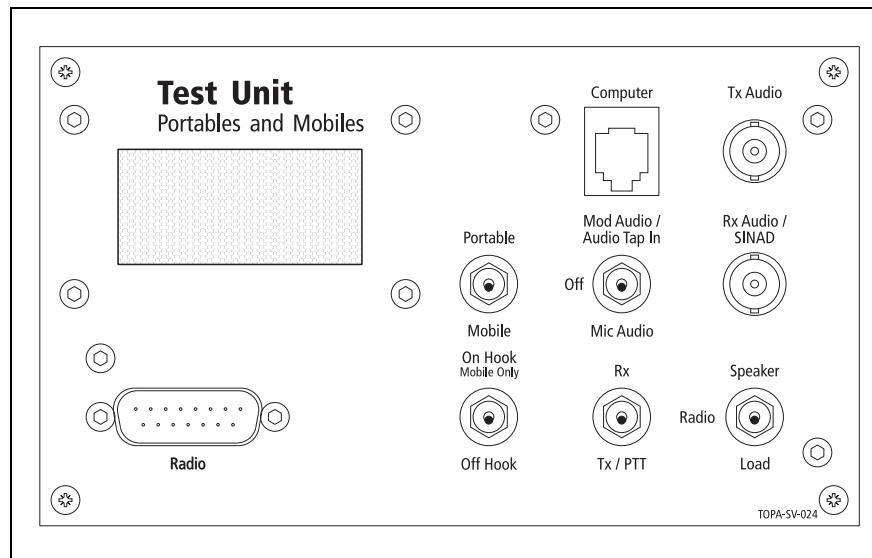
# 9    **TOPA-SV-024 Test Unit**

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The TOPA-SV-024 test unit is used to test and maintain Tait portable and mobile radios by providing an interface between the radio, a test PC, and an RF communications test set.

The diagram below shows the front panel of the test unit.

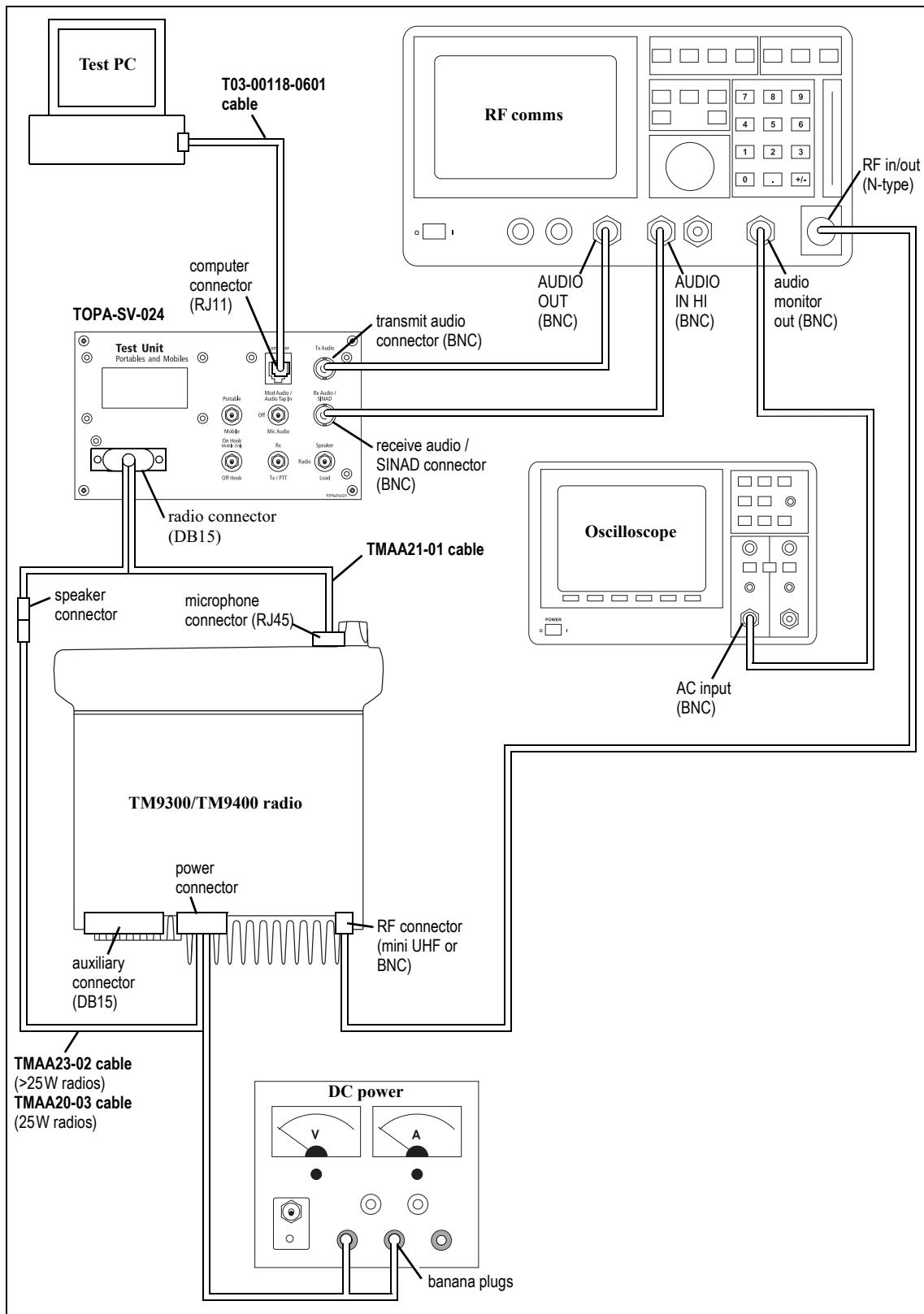
**Figure 9.1    TOPA-SV-024 test unit**



## 9.1    **Test Equipment Setup**

The diagram on the following page shows how the test unit is connected to the radio, the test PC, and the RF communications test set.

Figure 9.2 Test equipment setup



## 9.2 Operation

This section explains the function of the TOPA-SV-024 test unit controls. The procedure for using the test unit is described in the relevant section on test equipment setup.

### Portable / Mobile Switch

This 2-way toggle switch is used to switch attenuation resistors (R4, R5, R6) in and out of the line from the radio's positive speaker output to the positive **Rx Audio/SINAD** output of the test unit (before the isolating transformer).

- When set to **Portable**, the attenuation resistors are switched out.
- When set to **Mobile**, the attenuation resistors are switched in (attenuation 10:1).

**Notice** Selecting the wrong switch position may result in incorrect SINAD readings and damage to the test unit.

### Mod Audio/Audio Tap In / Off / Mic Audio Switch

This 3-way toggle switch is used to switch between **Mod Audio/**  
**Audio Tap In**, **Mic Audio**, and **Off** (no audio signal).

For normal transmit deviation tests, this switch is set to **Mic Audio**.

### On Hook / Off Hook Switch

This 2-way toggle switch is used to simulate the microphone hookswitch opening ("hook off") and closing ("hook on"). This is done by switching a 12k $\Omega$  resistor in or out of the microphone PTT line.

- When set to **Off Hook**, the 12k $\Omega$  resistor is switched out of the microphone-PTT line. This simulates the microphone being removed from the microphone clip.
- When set to **On Hook**, a 12k $\Omega$  resistor is switched into the microphone-PTT line. This simulates the microphone being placed on the microphone clip.

### 9.2.1 Rx / Tx/PTT Switch

This 2-way toggle switch is used to switch between receive and transmit mode.

- When set to **Rx**, the PTT line is switched to high impedance.
- When set to **Tx/PTT**, the PTT line is pulled to ground.

## 9.2.2 Speaker / Radio / Load Switch

This 3-way toggle switch is used during receive audio tests to switch the audio to the test unit speaker (**Speaker**), to the radio's internal speaker (**Radio**) or to a dummy load consisting of R1 and R2 (**Load**).

**(i)** This switch does not disconnect the radio's internal speaker on mobiles. If the switch is set to **Speaker** or **Load**, this simulates an external speaker being connected in parallel to the radio's internal speaker.

With all settings, a low level audio signal is available for testing through the SINAD port.

### Portable

- When set to **Speaker**, only the speaker of the test unit is active.
- When set to **Radio**, only the speaker of the portable is active.
- When set to **Load**, no speaker is active. The audio signal is terminated in the test unit dummy load.

### Mobile

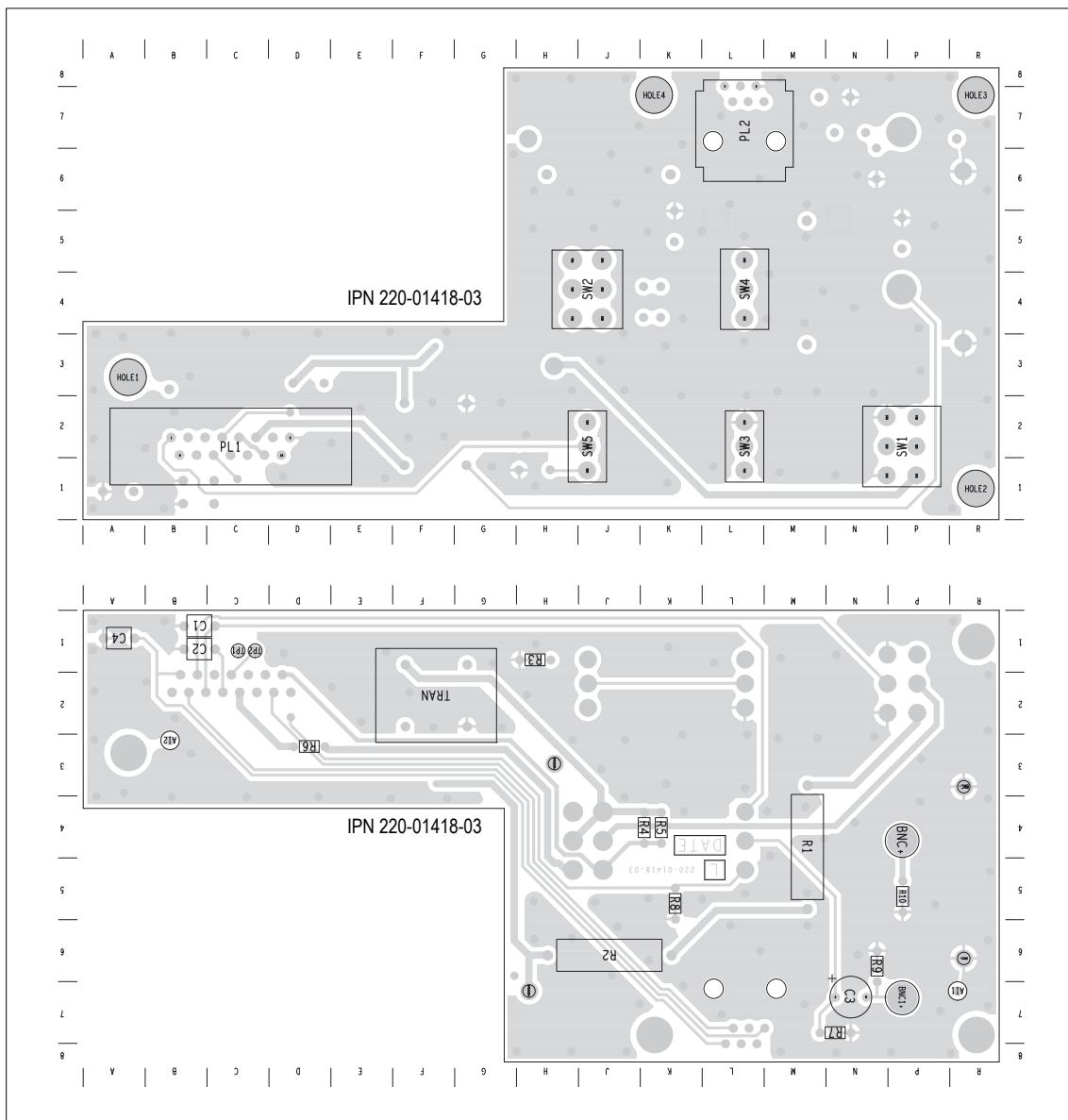
- When set to **Speaker**, the speakers of the test unit and the mobile are both active. The speaker of the mobile cannot be disconnected.
- When set to **Radio**, only the speaker of the mobile is active.
- When set to **Load**, the speaker of the mobile remains active.

## 9.3 PCB Information

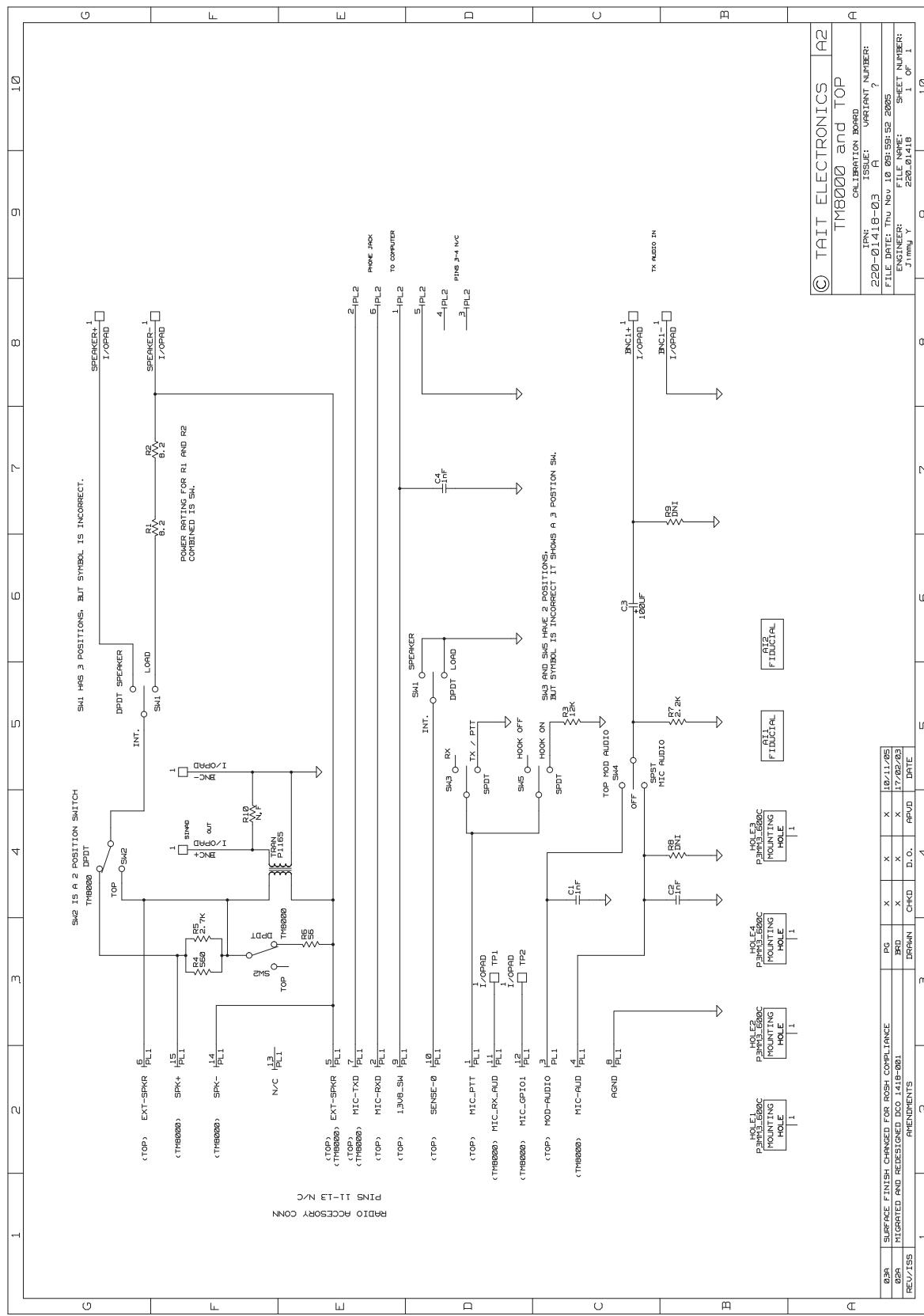
### 9.3.1 Parts List (PCB IPN 220-01418-03)

Ref.	IPN	Description	Ref.	IPN	Description
BNC1	240-02100-11	Skt Coax BNC 3.5mm Pnl N/Tag	SW2	230-00010-57	Sw Tgl Dpdt On-On Pnl Mtg
BNC2	240-02100-11	Skt Coax BNC 3.5mm Pnl N/Tag	SW3	230-00010-03	Sw Tgl Spst Mini Pnl Mtg
C1	011-54100-01	Cap Cer AI 1n 10% T/C B 50v	SW4	230-00010-16	Sw Tgr Spst 3-Pos Pnl Mtg
C2	011-54100-01	Cap Cer AI 1n 10% T/C B 50v	SW5	230-00010-03	Sw Tgl Spst Mini Pnl Mtg
C3	020-59100-06	Cap Elec Rdl 100m 16v 6.3x11	TRAN	054-00010-17	Xfmr Line 600 Ohm 1:1
C4	011-54100-01	Cap Cer AI 1n 10% T/C B 50v		220-01418-03	PCB T/Orca calib Kit
PL1	240-00010-55	Plg 15w Drng W-Wrap Pnl Mtg		250-00010-19	SPKR c/w rbr sealing ring
PL2	240-04021-60	Skt 6w Modr Ph Vrt T-Ent		303-03034-00	CASE Sloped pnl encl
R1	032-31820-01	Res M/F Pwr 17x5 8e2 5% 2.5w		307-01015-01	GRILLE A2M1128 spkr sml blk
R2	032-31820-01	Res M/F Pwr 17x5 8e2 5% 2.5w		316-06645-03	PNL frt test unit port & mbl
R3	030-55120-20	Res Flm 4x1.6 12k 5% 0.4w		316-87066-00	PILLAR M3x13.4mm A4M2857
R4	030-53560-20	Res Flm 4x1.6 560e 5% 0.4w		345-00040-10	SCRW M3x6 P/H Pz BZ Mc
R5	030-54270-20	Res Flm 4x1.6 2k7 5% 0.4w		349-00020-36	SCRW M3x8 P/H T10 blk T/T
R6	030-52560-20	Res Flm 4x1.6 56e 5% 0.4w		352-00010-08	NUT M3 cold form hex S/T BZ
R7	030-55100-20	Res Flm 4x1.6 10k 5% 0.4w		353-00010-13	WSHR M3 sprf int BZ
SPKR	032-31820-01	Res M/F Pwr 17x5 8e2 5% 2.5w		353-00010-16	WSHR M3 Fibre 8x1.5
SW1	230-00010-42	Sw Tgl On Off On Dpdt Ms500hb		356-00010-73	TAG sldr BNC pnl mtg
				369-00010-11	FOOT rbr bump on slfadh
				410-01172-00	PKG blnk T/Orca

### 9.3.2 Board Layout



### 9.3.3 Circuit Diagram



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8.1. Licensee's right to use the Software and Documentation will commence when the Designated Products are supplied by Tait to Licensee and will continue for the life of the Designated Products with which or for which the Software and Documentation are supplied, unless Licensee breaches this Agreement, in which case this Agreement and Licensee's right to use the Software and Documentation may be terminated immediately upon notice by Tait.

8.2. Within thirty (30) days after termination of this Agreement, Licensee must certify in writing to Tait that all copies of the Software have been removed or deleted from the Designated Products and that all copies of the Software and Documentation have been returned to Tait or destroyed by Licensee and are no longer in use by Licensee.

8.3. Licensee acknowledges that Tait made a considerable investment of resources in the development, marketing, and distribution of the Software and Documentation and that Licensee's breach of this Agreement will result

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## **Section 9 CONFIDENTIALITY**

Licensee acknowledges that the Software and Documentation contain proprietary and Confidential Information valuable to Tait and are Tait trade secrets, and Licensee agrees to respect the confidentiality of the information contained in the Software and Documentation.

## **Section 10 LIMITATION OF LIABILITY**

10.1. In no circumstances shall Tait be under any liability to Licensee, or any other person whatsoever, whether in Tort (including negligence), Contract (except as expressly provided in this Agreement), Equity, under any Statute, or otherwise at law for any losses or damages whether general, special, exemplary, punitive, direct, indirect, or consequential arising out of or in connection with any use or inability of using the Software.

10.2. Licensee's sole remedy against Tait will be limited to breach of contract and Tait sole and total liability for any such claim shall be limited at the option of Tait to the repair or replacement of the Software or the refund of the purchase price of the Software.

## **Section 11 GENERAL**

11.1. COPYRIGHT NOTICES. The existence of a copyright notice on the Software will not be construed as an admission or presumption of publication of the Software or public disclosure of any trade secrets associated with the Software.

11.2. COMPLIANCE WITH LAWS. Licensee acknowledges that the Software may be subject to the laws and regulations of the jurisdiction covering the supply of the Designated Products and will comply with all applicable laws and regulations, including export laws and regulations, of that country.

11.3. ASSIGNMENTS AND SUBCONTRACTING. Tait may assign its rights or sub-contract its obligations under this Agreement, or encumber or sell its rights in any Software, without prior notice to, or consent of, Licensee.

11.4. GOVERNING LAW. This Agreement shall be subject to and construed in accordance with New Zealand law and disputes between the parties concerning the provisions hereof shall be determined by the New Zealand Courts of Law. Provided however Tait may at its election bring proceedings for breach of the terms hereof or for the enforcement of any judgment in relation to a breach of the terms hereof in any jurisdiction Tait considers fit for the purpose of ensuring compliance with the terms hereof or obtaining relief for breach of the terms hereof.

11.5. THIRD-PARTY BENEFICIARIES. This

Agreement is entered into solely for the benefit of Tait and Licensee. No third party has the right to make any claim or assert any right under this Agreement, and no third party is deemed a beneficiary of this Agreement. Notwithstanding the foregoing, any licensor or supplier of third-party software included in the Software will be a direct and intended third-party beneficiary of this Agreement.

11.6. SURVIVAL. Sections 4, 5, 6.3, 7, 8, 9, 10, and 11 survive the termination of this Agreement.

11.7. ORDER OF PRECEDENCE. In the event of inconsistencies between this Agreement and any other Agreement between the parties, the parties agree that, with respect to the specific subject matter of this Agreement, this Agreement prevails.

11.8. SECURITY. Tait uses reasonable means in the design and writing of its own Software and the acquisition of third-party Software in order to limit Security Vulnerabilities. While no software can be guaranteed to be free from Security Vulnerabilities, if a Security Vulnerability is discovered, Tait will take the steps specified in Section 6 of this Agreement.

11.9. EXPORT. Licensee will not transfer, directly or indirectly, any Designated Product, Documentation or Software furnished hereunder or the direct product of such Documentation or Software to any country for which New Zealand or any other applicable country requires an export license or other governmental approval without first obtaining such license or approval.

11.10. SEVERABILITY. In the event that any part or parts of this Agreement shall be held illegal or null and void by any court or administrative body of competent jurisdiction, such determination shall not affect the remaining terms which shall remain in full force and effect as if such part or parts held to be illegal or void had not been included in this Agreement. Tait may replace the invalid or unenforceable provision with a valid and enforceable provision that achieves the original intent and economic effect of this Agreement.

11.11. CONSUMER GUARANTEES. Licensee acknowledges that the licenses supplied in terms of this agreement are supplied to Licensee in business, and that the guarantees and other provisions of prevailing consumer protection legislation shall not apply.

11.12. WHOLE AGREEMENT. Licensee acknowledges that it has read this Agreement, understands it and agrees to be bound by its terms and conditions. Licensee also agrees that, subject only to the express terms of any other agreement between Tait and Licensee to the contrary, this is the complete and exclusive statement of the Agreement between it and Tait in relation to the Software. This Agreement supersedes any proposal or prior agreement, oral or written, and any other communications between Licensee and Tait relating to the Software and the Designated Products.