TSPR-JRAC2

JRAC2 Production Test Set

Installation and Operating Manual

Rev A

IMPORTANT:

Information in this document is subject to change without notice.

To confirm the current revision status of this manual, visit the JAC website:

www.jupiteravionics.com

RECORD OF REVISIONS			
Revision	**Rev Date**	**Description**	**ECR**
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MPB	JAC 03-02-17 AH	JAC 03-02-17 KDV

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TSPR-JRAC2 JRAC2 Production Test Set

SECTION 1 - DESCRIPTION

1.1 System Overview

The TSPR-JRAC2 Production Test Set connects a JRAC2 series audio controller and compatible products to the various test loads and test equipment needed to perform the production acceptance test procedure. The TSPR-JRAC2 allows for manual testing or automated testing via a multi-connector automated test interface.

1.2 Features Overview

The TSPR-JRAC2 Production Test Set is a 19 inch rack mount test panel that connects the unit under test (UUT) to test equipment via the D-sub Cables. Additional D-subminiature connectors allow for an automated test equipment interface. BNC connectors provide test equipment access for each input, output and bi-directional signal. Headset jack connectors for each microphone and phones pair allow for a standard aviation headset connection. Banana jacks accept power supply inputs and provide a connection to keyline outputs. Audio 3.5mm jacks connect to both the unit under test and a computer. Switches allow for audio selection, load selection, on/off control, keyline activation and mode selection. LEDs indicate power status and discrete or keyline outputs from the unit under test.

1.3 Specifications

1.3.1 Mechanical Specifications

Height	12.25 in [311.2 mm] max
Behind panel depth	2.00 in [50.8 mm] max
Overall depth including front panel components	3.00 in [76.2 mm] max
Front panel width	19.0 in [482.6 mm] max
Weight	8.65 lbs (3.9 kg) max
Enclosure Material	brushed aluminum with conversion coating
Connectors for JRAC2 (6):	1 ea. 4 pole 3.5mm stereo jack 2 ea. 62-pin D-Sub male 1 ea. 26-pin D-Sub male 1 ea. 25-pin D-Sub male 1 ea. 15-pin D-Sub male
Mounting	4 ea. 10-32 x 0.5 screws (19 inch rack panel)
Bonding	≤ 2.5 mΩ
Front panel legends	white markings on black background

1.3.2 Test Cables

The TSPR-JRAC2 includes five Production Test Set Cables:

Quantity	Description	JAC Part #
1	JRAC2 J1 to TSPR-JRAC2 J18	CAB-TSPR-0028
1	JRAC2 J2 to TSPR-JRAC2 J28	CAB-TSPR-0029
1	JRAC2 J3 to TSPR-JRAC2 J63	CAB-TSPR-0030
1	JA23 J2 to TSPR-JRAC2 J93	CAB-TSPR-0037
1	JRAC2 J6 to TSPR-JRAC2 J80 to JA37	CAB-TSPR-0038

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SECTION 2 – INSTALLATION

2.1　　　　Introduction

This section contains unpacking and inspection procedures, installation information, and post-installation checks.

2.2　　　　Unpacking and Inspecting Equipment

Unpack the equipment carefully. Check for shipping damage and report any problems to the relevant carrier. Confirm that the Authorized Release Certificate or Certificate of Conformance is included. Complete the on-line warranty card from the Jupiter Avionics Corporation (JAC) website - www.jupiteravionics.com/warranty

2.2.1　　　　Warranty

This product manufactured by JAC is warranted to be free of defects in workmanship or performance for 2 years from the date of installation by an approved JAC dealer or agency. This warranty covers the cost of all materials and labour to repair or replace the unit, but does not include the cost of transporting the defective unit to and from JAC or its designated warranty repair centre, or of removing and replacing the defective unit in the aircraft. This warranty does not cover failures due to abuse, misuse, accident, or unauthorized alteration or repairs.

If the on-line warranty card is not completed, the product will be warranted from the date of manufacture.

Contact JAC for return authorization, and for any questions regarding this warranty and how it applies to your unit(s). JAC is the final arbiter concerning warranty issues.

2.3　　　　Installation Procedures

> **WARNING: Loud noise can cause hearing damage. Set the headset volume to minimum before conducting tests, and slowly increase the volume to a comfortable listening level.**

> **CAUTION:** The power input circuitry of the unit may be damaged if the installation does not conform to the wiring instructions in this manual.

2.3.1　　　　Mechanical Installation

The TSPR-JA9X can be mounted in a 19" test rack in any attitude and location with adequate space for the front panel and sufficient clearance for the connector and wiring harness. It requires no direct cooling.

2.4　　　　Installation Drawings

The Mechanical Installation drawing can be found in Appendix A of this manual.

SECTION 3 – OPERATION

3.1   Introduction

The switches, connectors and annunciators of the TSPR-JRAC2 are described in this section.

✅ **Note**: The connection and operating instructions for the TSPR-JRAC2 depend upon the unit under test (UUT). All connection information can be found in the Acceptance Test Procedure for the relevant product in the Setup Diagram and Connection Setup Procedure sections.

3.2   Front Panel

Each part of the front panel will be described separately in the following sections.

The JRAC2 information is shown in Section 3.3.

Refer to section 3.4 for the JA37 and section 3.5 for the JA23 & JA33

3.3   JRAC2 Section

3.3.1   POWER

The **JRAC2 - POWER** switch (SW53) is a two-position, single pole toggle switch for power on/off. Annunciator DS12 will illuminate green when the unit is connected to a power supply and the switch is in the on (up) position.

The fuse holder (F1) contains the power input fuse (glass body Slo-Blo, 3 Amp, 0.25in dia x 1.25in long).

Two banana jack connectors (marked +28 VDC) provide a power supply connection. The left (negative **-**) power connector (J66) is black, and the right (positive **+**) power connector (J67) is red.

3.3.2   LIGHTS

The **LIGHTS** switch (SW54) is a two-position, single pole toggle switch used for products with panel lights. When the switch is in the 'up' position, the lights will be on, and the annunciator DS13 will illuminate green. When the switch is in the 'down' position, the lights will be off and the annunciator will be dark.

Two banana jack connectors (J64 and J65) provide a lights power supply input and a lights ground.
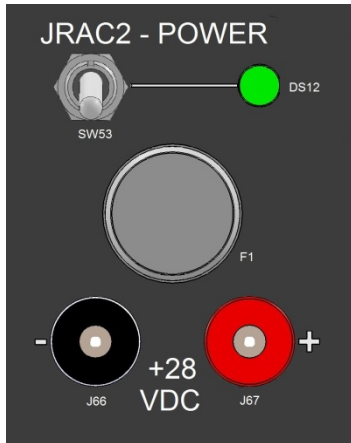
3.3.3   CURRENT

Two banana jack connectors provide a power supply current measurement output. The left (negative **-**) current connector (J68) is black, and the right (positive **+**) current connector (J69) is red.

When **CURRENT** switch SW59 is up, the current can be checked through an external current measurement device.

3.3.4   USER Mode and Mute
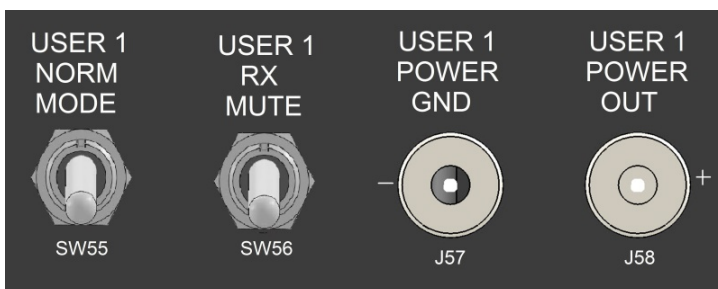
The **USER 1 NORM MODE** switch SW55 is a two position single pole toggle switch, used to select Normal mode when in the up position. The **USER 1 RX MUTE** switch SW56 is used to mute receive audio for USER 1.

Connectors J57 and J58 are used to provide **USER 1 POWER GROUND** (-) and **USER 1 POWER OUT** (+) respectively. The voltage can be checked through an external voltage measurement device.

Below these are the equivalent USER 2 switches and connectors: **USER 2 NORM MODE** (SW60) **USER 2 RX MUTE** (SW61) **USER 2 POWER GND** (J70) and **USER 2 POWER OUT** (71)

3.3.5   USER TX ACTIVE
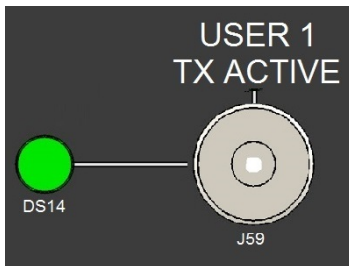
The **USER 1 TX ACTIVE** connector J59 is linked by a line to its associated annunciator DS14, and is used to monitor USER 1 transmit activity.

The **USER 2 TX ACTIVE** connector J72 and annunciator DS16 are situated immediately below, and operate in the same manner.

3.3.6   USER RESET IN/OUT

The **USER 1 RESET IN/OUT** is a panel mount female BNC connector labelled J60, and is used to monitor the UUT RESET output, or to reset the UUT.

Below this, the identical **USER 2 RESET IN/OUT** connector is labelled J73.

3.3.7   ICS ISOLATE MODE
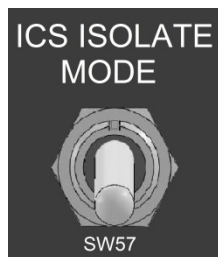
The **ICS ISOLATE MODE** switch is a two position single pole toggle switch labelled SW57, and is used to place the UUT into ICS ISOLATE mode.

3.3.8   SPARE 2

The **SPARE 2** switch is a two position single pole toggle switch labelled SW58.

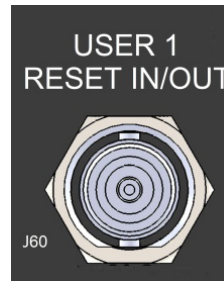It is connected by a line to its corresponding annunciator DS15, and to a black single conductor banana jack labelled J74, which is used to ground Pin 24 on J63 and J77.

3.3.9   ProCS PRODUCT CONTROL

The **TO USER 1 ProCS PRODUCT CONTROL** connector J61 is a four contact 3.5 mm panel mounted jack.

Immediately below it is the **TO USER 2 ProCS PRODUCT CONTROL** connector J75, which is used to connect a PC running ProCS™ to the UUT.

3.3.10   'TO' D-Subminiature Connectors
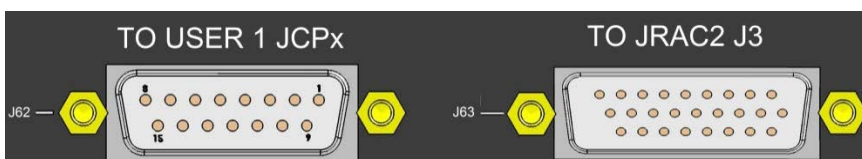
TO USER 1 JCPx is a 15 socket D-subminiature connector labelled J62 used to connect a JCPx control panel to the UUT.

TO JRAC2 J3 is a 26 socket high density D-subminiature connector labelled J63, used for automatic testing purposes.

TO USER 2 JCPx (J76) and **TO TSPR-APX1** (J77) are situated directly below.

3.3.11   COM MICS and PTT
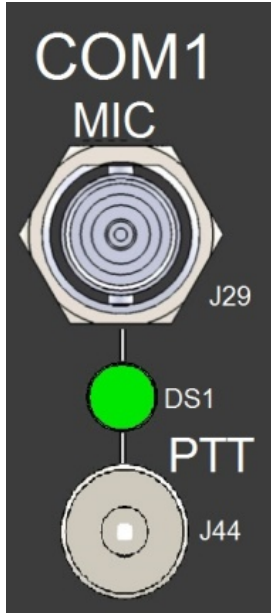
The **COM 1 MIC** is a black BNC female connector labelled J29. It is linked by a line to its associated annunciator DS1, and to a black single conductor panel mount banana jack marked **PTT** and labelled J44.

The **MIC** connector is used to monitor the UUT transmit audio.

The **PTT** connector and annunciator are used to monitor the transmit Press to Talk keyline from the UUT.

COM 2 MIC is J30, with annunciator DS2 and **PTT** connector J45.

COM 3 MIC is J31, with annunciator DS3 and **PTT** connector J46.

COM 4 MIC is J32, with annunciator DS4 and **PTT** connector J47.

COM 5 MIC is J33, with annunciator DS5 and **PTT** connector J48.

COM 6 MIC is J34, with annunciator DS6 and **PTT** connector J49.

COM 7 MIC is J35, with annunciator DS7 and **PTT** connector J50.

COM 8 MIC is J36, with annunciator DS8 and **PTT** connector J51.

COM 9 MIC is J37, with annunciator DS9 and **PTT** connector J52.

COM 10 MIC is J38, with annunciator DS10 and **PTT** connector J53.

3.3.12   CVR and RX COMP
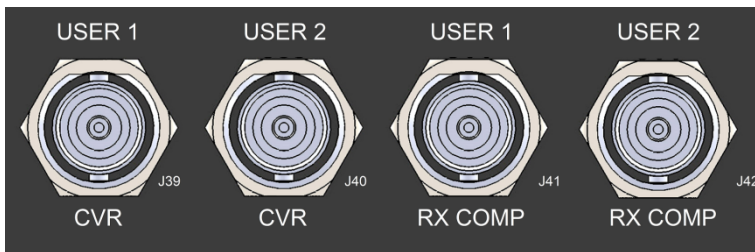
These four female BNC panel mount connectors are marked **USER 1 CVR** (J39), **USER 2 CVR** (J40), **USER 1 RX COMP** (J41) and **USER 2 RX COMP** (J42).

These connectors are used to monitor CVR and RX COMP signals from the UUT

3.3.13   USER MUSIC

These switches are used to route music audio to the UUT.

The **USER 1 MUSIC** switches are labelled SW46 (**LEFT**) and SW47 (**RIGHT**).

The **USER 2 MUSIC** switches are situated to the right of the USER 1 MUSIC switches, and are labelled SW48 (**LEFT**) and SW49 (**RIGHT**).

3.3.14 MUSIC/CONFIGURE Switch

The **MUSIC/CONFIGURE** switch is a two position 3-pole toggle switch, labelled SW51.

When the switch is set to the up position, the music audio is routed from the RX AUDIO connector to the USER 1 music left and right inputs on the UUT.

When the front panel configuration switch is set to the down position, the configuration data lines are connected from the JA99 configuration connector to the UUT connector.

3.3.15 TO ProCS PRODUCT CONFIG

The **TO ProCS PRODUCT CONFIG** interface is a four contact 3.5 mm panel mount jack labelled J55.

This connector is used to connect a PC running ProCS™ to the UUT.

3.2.16 ICS TIE and TIE LOAD

The **ICS TIE** interface is a black BNC connector labelled J56.

The **ICS TIE LOAD** switch provides selection of an impedance of **2K**Ω ± 10%, **287**Ω ± 10% or no load (**OFF**) to the UUT interface connector contacts.

3.3.17 62 Socket D-Subminiature Connectors
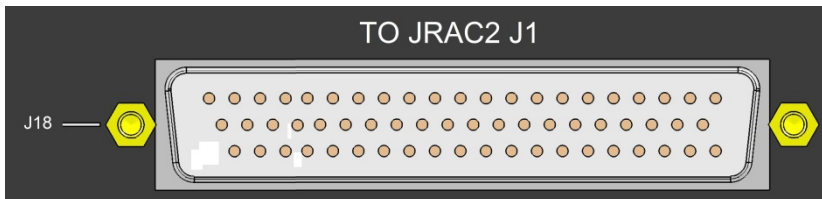
There are four 62-socket high density D-Subminiature connectors on the right hand side of the TSPR-JRAC2. Each one is individually labelled and marked.

The first connector is J18, labelled **TO JRAC2 J1** (shown above).

The second connector is J19, labelled **TO TSPR-APX1**.

The third connector is J28, labelled **TO JRAC2 J2**.

The fourth connector is J43, labelled **TO TSPR-APX1**.

3.3.18 RX AUDIO connector and Switches

The RX AUDIO switches are eighteen two-position 2-pole toggle switches. When a switch is in the up position, the relevant COM, NAV or DIR is connected, and when in the down position, it is disconnected.

The switches are marked **COM1** to **COM10**, **NAV1** to **NAV4**, and **DIR1** to **DIR4**, and are labelled SW1 to SW18

To the right of the switches is a female BNC receive audio connector marked **RX AUDIO** (J9) to interface with an audio generator.

USER 1 and USER 2 music left and right (SW46 – SW49) are also connected to the **RX AUDIO** (J9).

3.3.19 USER Headset Controls
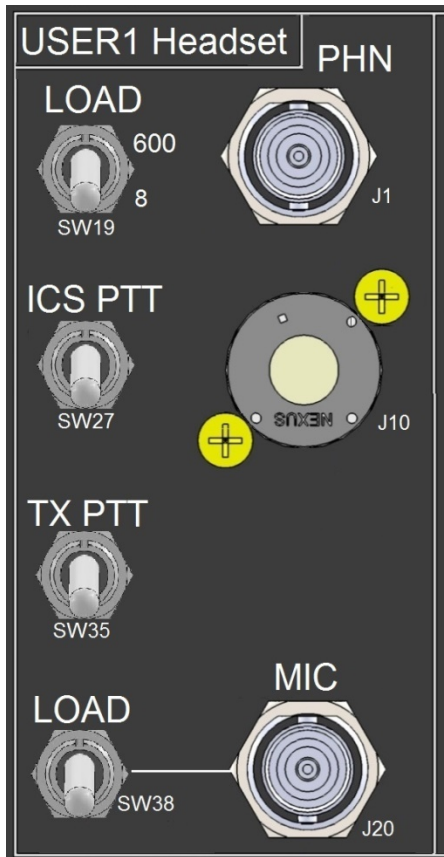
The **USER# Headset** controls and connectors are grouped together by headset number.

At the top of each section are a **LOAD** switch and a female BNC connector marked **PHN**. The **LOAD** switch is a three-position (center off), single pole toggle switch to select the phones load. In the up position the selected load is **600** Ω, in the down position it is **8** Ω, and the centre-off position selects No Load.

The next row has an **ICS PTT** switch and a four conductor headset jack.

The **USER1**, **USER2** and **USER3** sections have a **TX PTT** switch.

In the lowest position of each grouping are a **LOAD** switch and a female panel mount BNC connector marked **MIC**. When the **LOAD** switch is in the up position, the load is applied to the attached microphone.

The labels for the components are shown below:

USER #	LOAD	PHN	ICS PTT	Jack	TX PTT	LOAD	MIC
USER1	SW19	J1	SW27	J10	SW35	SW38	J20
USER2	SW20	J2	SW28	J11	SW36	SW39	J21
USER3	SW21	J3	SW29	J12	SW37	SW40	J22
USER4	SW22	J4	SW30	J13	N/A	SW41	J23
USER5	SW23	J5	SW31	J14	N/A	SW42	J24
USER6	SW24	J6	SW32	J15	N/A	SW43	J25
USER7	SW25	J7	SW33	J16	N/A	SW44	J26
USER8	SW26	J8	SW34	J17	N/A	SW45	J27

3.3.20 USER 4 TX PTT
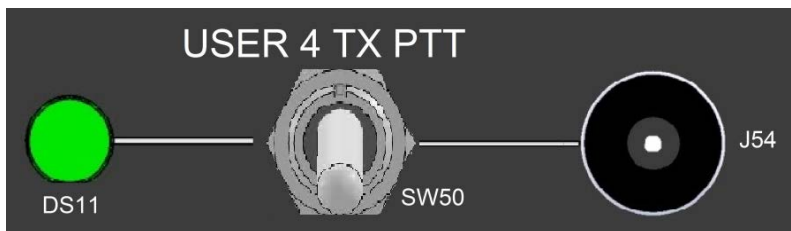
The **USER 4 TX PTT** switch is a two position single pole toggle switch labelled SW60, used to activate USER 4 function on the UUT. It is linked by lines to its associated annunciator DS11, and to a black single conductor panel mount banana jack labelled J44

3.4   **JA37 Section**

3.4.1   JA37 - POWER
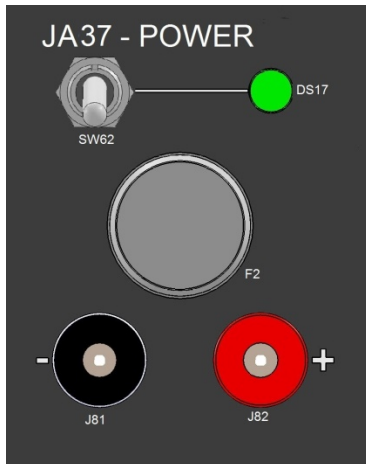
The **JA37 - POWER** switch (SW62) is a two-position, single pole toggle switch for power on/off. Annunciator DS17 will illuminate green when the unit is connected to a power supply and the switch is in the on (up) position.

The fuse holder (F2) contains the power input fuse (glass body Slo-Blo, 3 Amp, 0.25in dia x 1.25in long).

Two banana jack connectors provide a power supply connection. The left (negative **-**) power connector (J81) is black, and the right (positive **+**) power connector (J82) is red.

3.4.2   GROUNDS
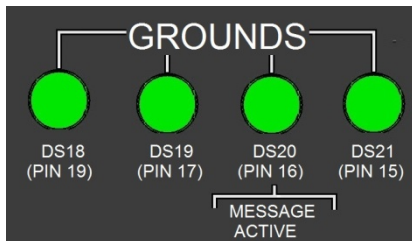
The **GROUNDS** annunciators DS18 to DS21 are marked with their associated pin numbers and will illuminate green when the relevant pin is grounded. DS20 (Pin 16) is linked by lines to the **MESSAGE ACTIVE** legend.

3.4.3   CURRENT

Two banana jack connectors provide a power supply current measurement output. The left (negative **-**) current connector (J83) is black, and the right (positive **+**) current connector (J84) is red.

When **CURRENT** switch SW71 is up, the current can be checked through an external current measurement device.

3.4.4   MESSAGE TRIGGERS
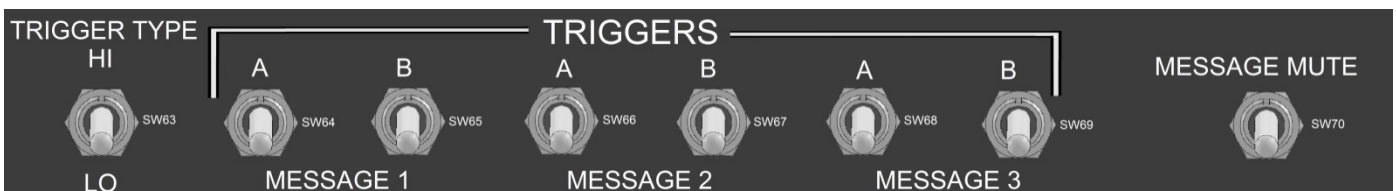
The **MESSAGE TRIGGERS** section consists of six two-pole centre-off toggle switches (SW64 to SW69) grouped into three pairs. Each pair is marked **A** or **B** above the switch, and **MESSAGE 1**, **MESSAGE 2** or **MESSAGE 3** below the paired groups.

The **TRIGGER TYPE** is selected by a two-pole centre-off toggle switch labelled SW63 (**HI** is up and **LO** is down).

The **MESSAGE MUTE** switch is a two-pole centre-off toggle switch labelled SW70 (mute on is up and off is down).

3.4.5   ISOLATION LOADS

The **HI ISOLATION** section consists of two two-pole centre-off toggle switches (SW72 and SW73), each associated with a female BNC panel mount connector (J85 and J86) and marked **HI ISOLATION 1** and **HI ISOLATION 2**. The switches select **600Ω** in the up position, **RX1** or **RX2** in the down position, and **OFF** in the centre-off position.

The **LOW ISOLATION** section consists of two single-pole two-position toggle switches (SW74 and SW75), each associated with a female BNC panel mount connector (J87 and J88) and marked **LOW ISOLATION 1** and **LOW ISOLATION 2**. The switches select **600Ω** in the up position and off in the down position.

3.4.6   PHONES 1 and 2 LOADS
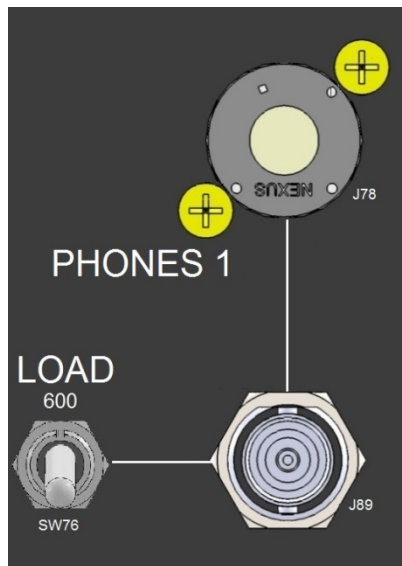
The **PHONES 1** section consists of a four conductor panel mount phones jack (J78) linked by a line to a female BNC panel mount connector (J89) and a single-pole two position toggle switch (SW76) labelled **LOAD**. The switch selects **600Ω** in the up position and off in the down position.

The **PHONES 2** section is identical, with the phones jack (J79) linked by a line to a female BNC panel mount connector (J90) and a single-pole two position toggle switch (SW77) labelled **LOAD**. The switch selects **600Ω** in the up position and off in the down position.

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3.4.7   D-Subminiature Connectors
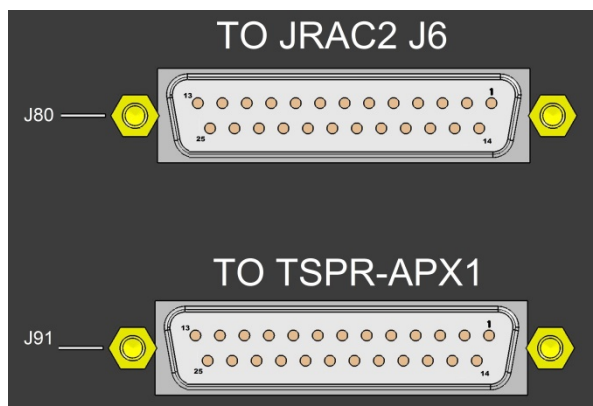
Two 25-socket D-subminiature connectors are labelled **TO JRAC2 J6** (J80) and **TO TSPR-APX1** (J91).

3.4.8   ANALOG TRIGGERS 1 – 3

Three female panel-mount BNC connectors labelled **ANALOG TRIGGER 1** (J103), **ANALOG TRIGGER 2** (J104) and **ANALOG TRIGGER 3** (J105) are provided to interface with a signal generator.

3.5   JA23 & JA33 Section

3.5.1   JA23 & JA33 - POWER

The **JA23 & JA33 - POWER** switch SW78 is a two-position, single pole toggle switch for power on/off. Annunciator DS22 will illuminate green when the unit is connected to a power supply and the switch is in the on (up) position.

The fuse holder F3 contains the power input fuse (glass body Slo-Blo, 3 Amp, 0.25in dia x 1.25in long).

Two banana jack connectors provide a power supply connection. The left (negative **-**) power connector (J94) is black, and the right (positive **+**) power connector (J95) is red.

3.5.2   SPEAKER INPUTS

The **SPEAKER INPUTS** are three two-position, single pole toggle switches labelled SW79, SW80 and SW81, and marked **1**, **2** and **3** respectively.

These switches route **RX AUDIO** (J9) to the UUT.

3.5.3   CURRENT

Two banana jack connectors provide a power supply current measurement output. The left (negative **-**) current connector (J96) is black, and the right (positive **+**) current connector (J97) is red.

When **CURRENT** switch SW85 is up, the current can be checked through an external current measurement device.

3.5.4   SPEAKER Switches and Connectors
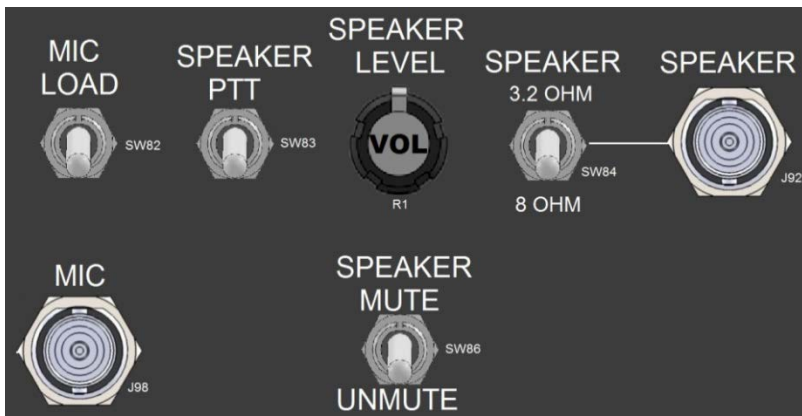
MIC LOAD SW82 is a two-position single pole switch that loads the mic bias voltage during signal injection on the mic connector that activates the speaker output. **SPEAKER PTT** SW83 is a two-position two-pole switch.

The **SPEAKER LEVEL** is controlled by a 1 kΩ panel pot (R1) marked **VOL**.

The **SPEAKER** connector J92 is a female panel mount BNC connector, linked by a line to its associated switch **SPEAKER** SW84 which is a two position centre-off toggle switch, used to select between **3.2 OHM** in the up position, **8 OHM** in the down position, and off in the centre.

The **MIC** connector is a female panel mount BNC connector, and SW86 is used to select **SPEAKER MUTE** in the up position, and **UNMUTE** in the down position.

3.5.5 D-Subminiature Connectors
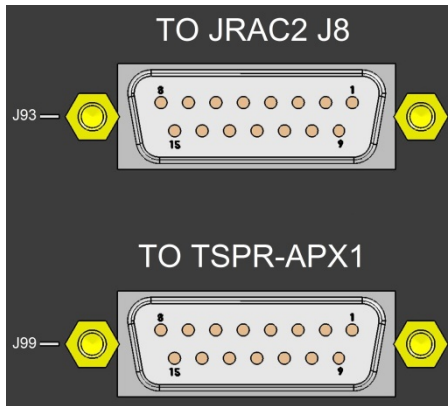
Two 15-socket D-subminiature connectors are labelled **TO JRAC2 J8** (J93) and **TO TSPR-APX1** (J99).

3.5.6 BLUETOOTH and INPUTS
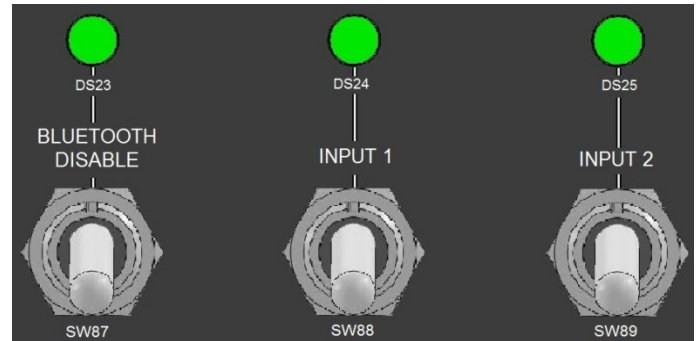
Three two-position, single pole toggle switches allow selection of **BLUETOOTH DISABLE** (SW87), **INPUT 1** (SW88) and **INPUT 2** (SW89). Annunciators DS23, DS24 and DS25 will illuminate green to indicate the associated switch is in the up position.

3.5.7 Connectors and OUTPUT Annunciators
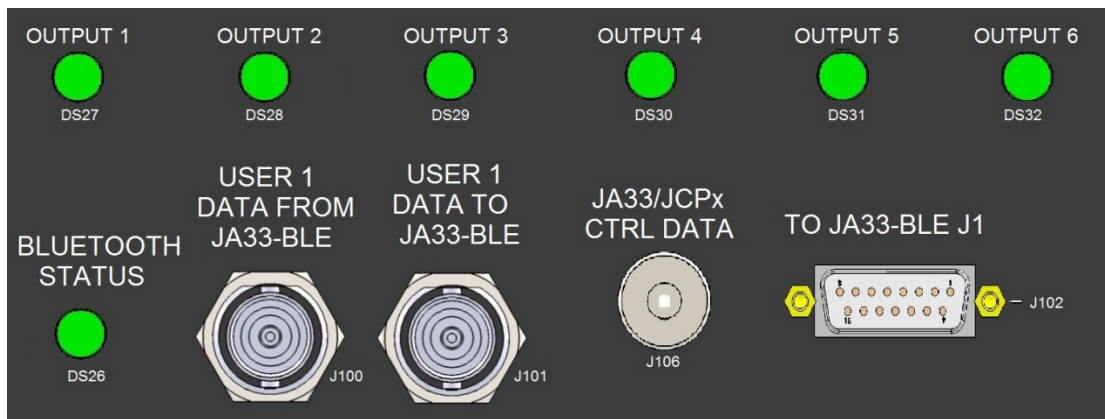
OUTPUT annunciators DS26 to DS32 Illuminate green when the associated output (**BLUETOOTH STATUS** and **OUTPUT 1** to **OUTPUT 6**) is active.

Two female panel mount BNC connectors are marked **USER 1 DATA FROM JA33-BLE** (J100) and **USER 1 DATA TO JA33-BLE** (J100).

A four contact 3.5mm panel mount jack (J106) provides **JA33/JCPx CTRL DATA** to the UUT.

A 15-socket D-subminiature connector (J102) is marked **TO JA33-BLE J1**. This connector interfaces the UUT to the Test Set.

Installation and Operating Manual

Appendix A - Installation Drawings

A1   Introduction

The drawings necessary for installation and troubleshooting of the TSPR-JRAC2 JRAC2 Production Test Set are in this Appendix, as listed below.

A2   Installation Drawings

DOCUMENT	Rev
TSPR-JRAC2 Faceplate	B
TSPR-JRAC2 Mechanical Installation	A

JAC
TSPR-JRAC2

COM1 SW1 COM2 SW2 COM3 SW3 COM4 SW4 COM5 SW5 COM6 SW6 COM7 SW7 COM8 SW8 COM9 SW9 COM10 SW10 NAV1 SW11 NAV2 SW12 NAV3 SW13 NAV4 SW14 DIR1 SW15 DIR2 SW16 DIR3 SW17 DIR4 SW18

RX AUDIO J9

USER1 Headset PHN | USER2 Headset PHN | USER3 Headset PHN | USER4 Headset PHN | USER5 Headset PHN | USER6 Headset PHN | USER7 Headset PHN | USER8 Headset PHN

LOAD 600 8 SW19 J1 | LOAD 600 8 SW21 J2 | LOAD 600 8 SW23 J3 | LOAD 600 8 SW25 J4 | LOAD 600 8 SW22 J5 | LOAD 600 8 SW24 J6 | LOAD 600 8 SW36 J7 | LOAD 600 8 J8

ICS PTT SW27 J10 | ICS PTT SW28 J11 | ICS PTT SW29 J12 | ICS PTT SW30 J13 | ICS PTT SW31 J14 | ICS PTT SW32 J15 | ICS PTT SW33 J16 | ICS PTT SW34 J17

TX PTT SW35 | TX PTT SW36 | TX PTT SW37

LOAD SW38 J20 MIC J20 | LOAD SW39 MIC J21 | LOAD SW40 MIC J22 | LOAD SW41 MIC J23 | LOAD SW42 MIC J24 | LOAD SW43 MIC J25 | LOAD SW44 MIC J26 | LOAD SW45 MIC J27

TO JRAC2 J1 J18
TO TSPR-APX1 J19
TO JRAC2 J2 J28
TO TSPR-APX1 J43

COM1 MIC J29 | COM2 MIC J30 | COM3 MIC J31 | COM4 MIC J32 | COM5 MIC J33 | COM6 MIC J34 | COM7 MIC J35 | COM8 MIC J36 | COM9 MIC J37 | COM10 MIC J38 | USER 1 J39 | USER 2 J40 | USER 1 J41 | USER 2 J42 | USER 1 MUSIC LEFT SW46 RIGHT SW47 | USER 2 MUSIC LEFT SW48 RIGHT SW49

DS1 DS2 DS3 DS4 DS55 DS6 DS7 DS8 DS9 DS10
CVR CVR RX COMP RX COMP

PTT J44 | PTT J45 | PTT J46 | PTT J47 | PTT J48 | PTT J49 | PTT J50 | PTT J51 | PTT J52 | PTT J53

USER 4 TX PTT DS11 SW50 J54

MUSIC CONFIGURE SW51

TO ProCS PRODUCT CONFIG J55

ICS TIE J56
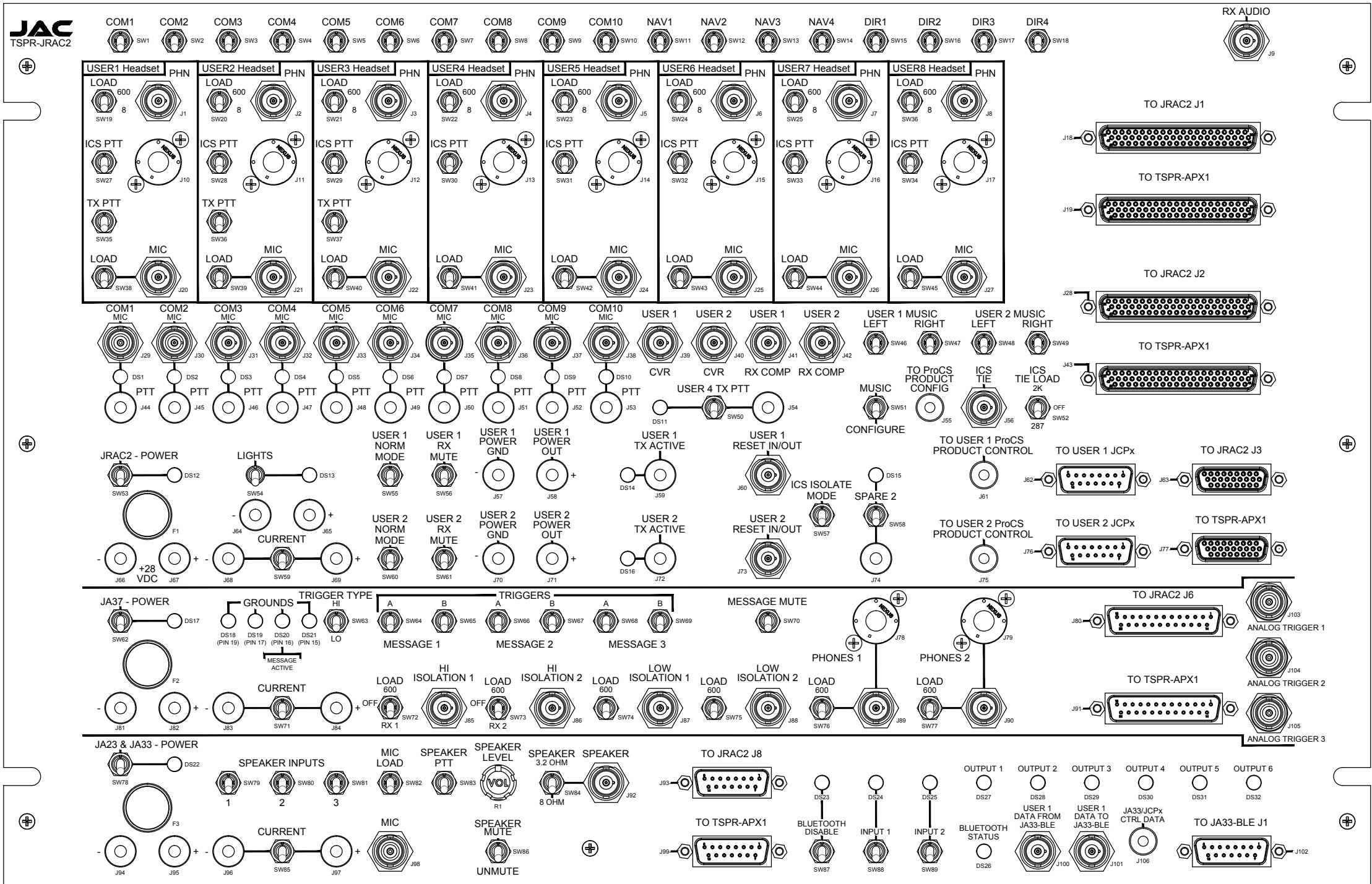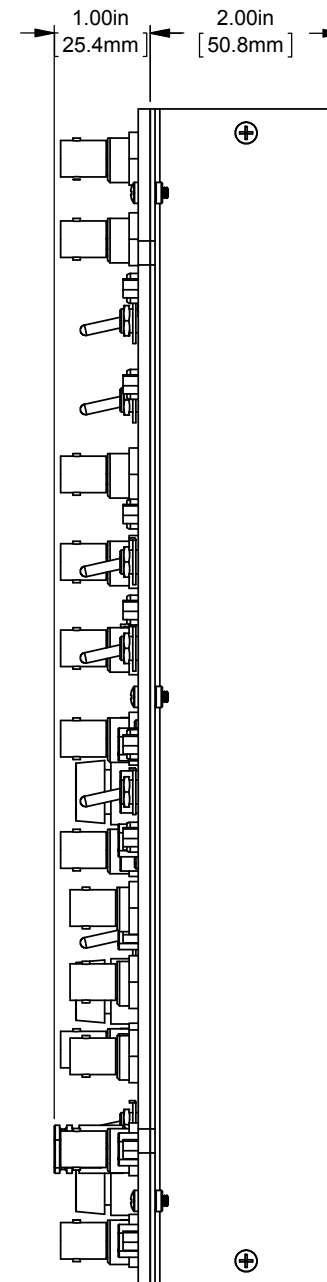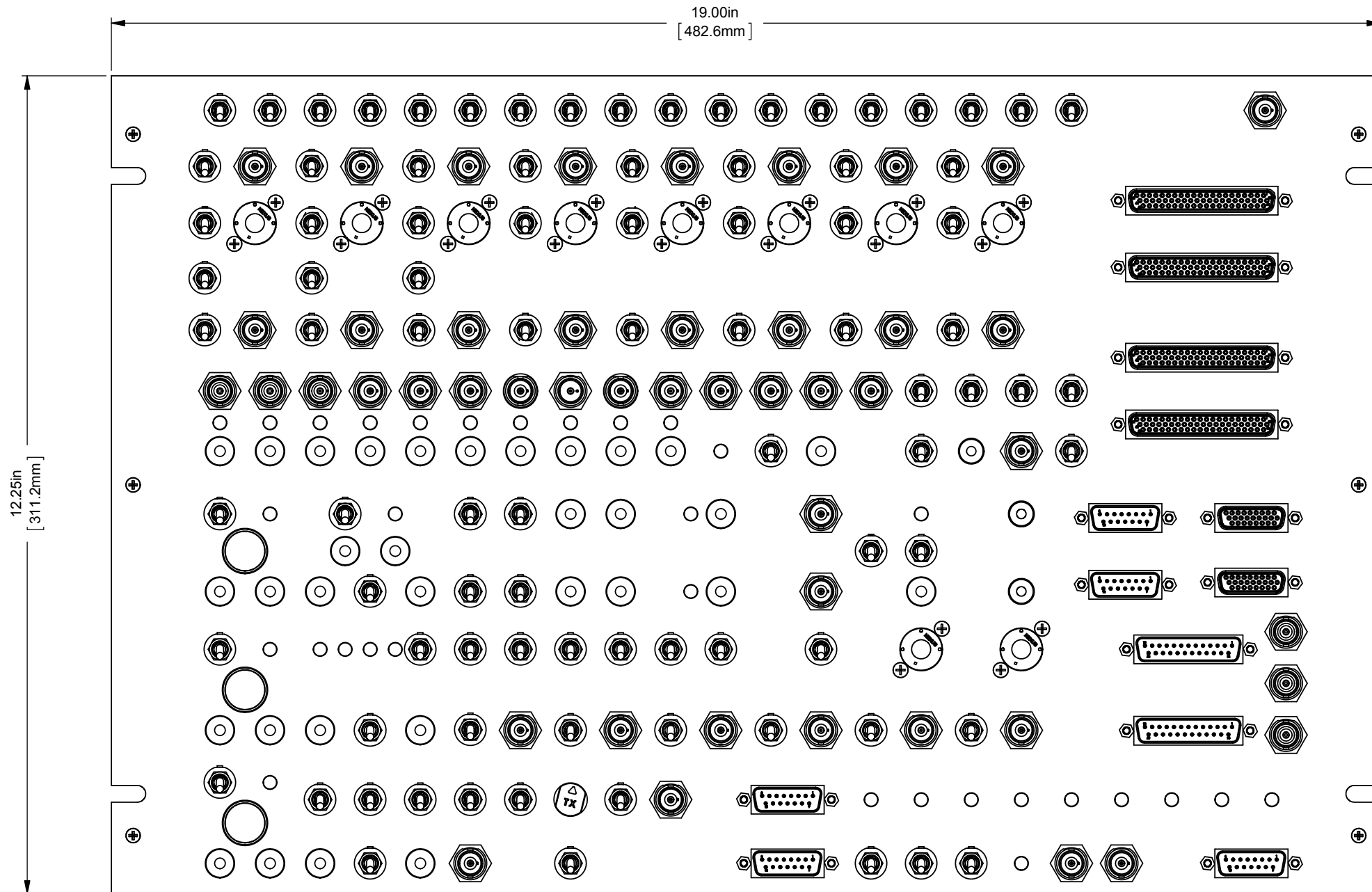
ICS TIE LOAD 2K OFF 287 SW52

JRAC2 - POWER SW53 DS12

LIGHTS SW54 DS13

USER 1 NORM MODE SW55 | USER 1 RX MUTE SW56 | USER 1 POWER GND J57 | USER 1 POWER OUT J58 | USER 1 TX ACTIVE DS14 J59 | USER 1 RESET IN/OUT J60 | ICS ISOLATE MODE SW57 | SPARE 2 DS15 SW58 J74

TO USER 1 ProCS PRODUCT CONTROL J61

TO USER 1 JCPx J62
TO JRAC2 J3 J63

F1 J66 - +28 VDC J67 +

CURRENT J64 - SW59 J65 +

USER 2 NORM MODE SW60 | USER 2 RX MUTE SW61 | USER 2 POWER GND J70 | USER 2 POWER OUT J71 | USER 2 TX ACTIVE DS16 J72 | USER 2 RESET IN/OUT J73

TO USER 2 ProCS PRODUCT CONTROL J75

TO USER 2 JCPx J76
TO TSPR-APX1 J77

JA37 - POWER SW62 DS17

GROUNDS DS18 (PIN 19) DS19 (PIN 17) DS20 (PIN 16) DS21 (PIN 15) MESSAGE ACTIVE

TRIGGER TYPE HI SW63 LO

TRIGGERS
A SW64 B SW65 | A SW66 B SW67 | A SW68 B SW69
MESSAGE 1 | MESSAGE 2 | MESSAGE 3

MESSAGE MUTE SW70

PHONES 1 J78

PHONES 2 J79

TO JRAC2 J6 J80
ANALOG TRIGGER 1 J103

F2 - J81 + J82

CURRENT - J83 SW71 J84 +

LOAD 600 OFF RX 1 SW72 J85 | HI ISOLATION 1 J85 | LOAD 600 OFF RX 2 SW73 J86 | HI ISOLATION 2 | LOAD 600 SW74 J87 | LOW ISOLATION 1 | LOAD 600 SW75 J88 | LOW ISOLATION 2 | LOAD 600 SW76 J89 | LOAD 600 SW77 J90

TO TSPR-APX1 J91
ANALOG TRIGGER 2 J104

JA23 & JA33 - POWER SW78 DS22

SPEAKER INPUTS SW79 1 SW80 2 SW81 3 | MIC LOAD SW82 | SPEAKER PTT SW83 | SPEAKER LEVEL VOL R1 | SPEAKER 3.2 OHM 8 OHM SW84 | SPEAKER J92

TO JRAC2 J8 J93

OUTPUT 1 DS27 | OUTPUT 2 DS28 | OUTPUT 3 DS29 | OUTPUT 4 DS30 | OUTPUT 5 DS31 | OUTPUT 6 DS32

USER 1 DATA FROM JA33-BLE | USER 1 DATA TO JA33-BLE | JA33/JCPx CTRL DATA

TO JA33-BLE J1 J102

F3 - J94 + J95

CURRENT - J96 SW85 J97 +

MIC J98

SPEAKER MUTE SW86 UNMUTE

TO TSPR-APX1 J99

DS23 BLUETOOTH DISABLE SW87 | DS24 INPUT 1 SW88 | DS25 INPUT 2 SW89 | BLUETOOTH STATUS DS26

J100 J101 J106

ANALOG TRIGGER 3 J105

PREPARED	TAT		
CHECKED	JAC 02-24-17 SRM	TITLE	JRAC2 Production Test Set
APPROVED	JAC 02-27-17 KDV	NCAGE CODE L00N3	PART NO. TSPR-JRAC2

JUPITER AVIONICS CORPORATION

SHEET 1/1

CONFIDENTIAL & PROPRIETARY TO JUPITER AVIONICS CORP.

DOC NO.
TSPR-JRAC2 Faceplate Rev B.dwg

JUPITER AVIONICS TEMPLATE AUTOCAD LANDSCAPE SIZEB REV B.DWT

19.00in
[482.6mm]

12.25in
[311.2mm]

1.00in
[25.4mm]

2.00in
[50.8mm]

Notes:
1.   Reference TSPR-JRAC2 Faceplate Rev B.pdf for faceplate engraving.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ARE IN DEGREES TOLERANCES: 1 DEC PLACE: ± 0.1 2 DEC PLACE: ± 0.01 3 DEC PLACE: ± 0.005 ANGLES: ± 0.5 DEG	PREPARED	TAT	JUPITER AVIONICS CORPORATION		
	CHECKED		TITLE	JRAC2 Production Test Set	
	APPROVED		NCAGE CODE L00N3	PART NO. TSPR-JRAC2	SHEET 1/1
MATERIAL: N/A	CONFIDENTIAL & PROPRIETARY TO JUPITER AVIONICS CORP.		DOC. NO. TSPR-JRAC2 Mechanical Installation Rev A.SLDDRW		
FINISH: N/A	DRAWING NOT TO SCALE				

JUPITER AVIONICS TEMPLATE SOLIDWORKS LANDSCAPE SIZEB REV B.DRWDOT