



TA122-03 Service Manual

Contents

Introduction	3
Model difference table	3
Specifications	5
Line Input Levels Transmit	5
Line Output Levels Receive	5
Current Consumption	5
Circuit Description	7
TA122-03 Block Diagram	7
Keying Circuits	8
TX Key Opto	8
Microphone PTT	8
Simultaneous Operation of both Keying Inputs	8
Audio Paths	9
TX Audio Path	9
Microphone Audio Path	9
RX Audio Path	9
RX Gate Circuits	10
Gating Source	10
Operation of Gating Circuits	10
Gate Relay Contacts	10
Repeater Operation	10
Other Functions	11
Control Head Fitted	11
PTT via MIC-AUD-IN	12
BCD Channel Selection	12
Programming Radio Parameters	12
RX Audio Output	12
Radio Volume	13
Squelch Control	13
Monitor Function	13
Voltage Regulator and Supplies	13
Installation	15
Remove PCB	15
Fit Milar Sheeting	15
Audio Mute Option	16
Monitor Option	16
Tuning and Adjustment	17
Standard Link Settings	17
Tuning and Adjustment	17
Rx Adjustments	18
Tx Adjustments	18
PCB Information	19
Parts List	19
PCB Layout (Top Side)	23
PCB Layout (Bottom Side)	24
Internal Cable Specifications	27
D012201a: 8 Way Micromatch Cable	27

Introduction

The TA122-03 has been developed as a 600 ohm Balanced Line + E&M signalling interface for the T700 range of radios.

The TA122-03 is based on the TA122-02, incorporating the following features:

- The microphone amplifier circuit will be bypassed automatically when a T700 control head is connected to the TA122-03.
- BCD7, BCD6, BCD5 and BCD4 inputs are removed as per TA122-02.
- The Rx squelch and audio mute input circuitry has been redesigned.
- The mechanical layout is altered to be compatible with the TA096-02 board.
- All optional links are made with zero Ohm SMD resistors and are either open circuit or closed circuit.
- Minor circuit modifications to improve level control.
- Selection of -48V or 12V or standard active low keying

The information provided is to be read in conjunction with the standard T700 Service Manual, M700.

Any correspondence regarding the 600 ohm Interface or information in this manual should be directed to Custom Solutions Group, Tait Electronics Ltd.

Model difference table

	Features	T700-69	TA122-01	TA122-02	TA122-03
1	IPN	227-12201-00	227-12201-00	227-12202-00	227-12203-00
2	4 Wire 600 Ohm + E&M	yes	yes	yes	yes
3	Opto Keying option	12V only	12V only	12V or 48V	12V or 48V
3	Repeater option	no	yes	yes	yes
4	Gate Relay	no	no	yes	yes
5	Gain preset	no	no	yes	yes
6	Mic. Amplifier	no	no	yes	yes
7	Bypass Mic.Amp with C/H	no	no	no	yes
8	BCD Channel select	100 channels	100 channels	16 channels	16 channels
9	Documentation	T1 413	TA122-01 Manual	TA122-02 Manual	TA122-03 Manual

Specifications

Line Input Levels Transmit

Min Input (Frequency range 66 Hz - 3 KHz) = -20dBm

Max Input (Frequency range 66Hz to 300 Hz) = 0dBm

(Frequency range 300 Hz to 3 KHZ) = +10dBm

Line Output Levels Receive

Min Output (Frequency range 66 Hz - 3Khz) = -20dBm

Max Output (Frequency range 66Hz to 300 Hz) = 0dBm

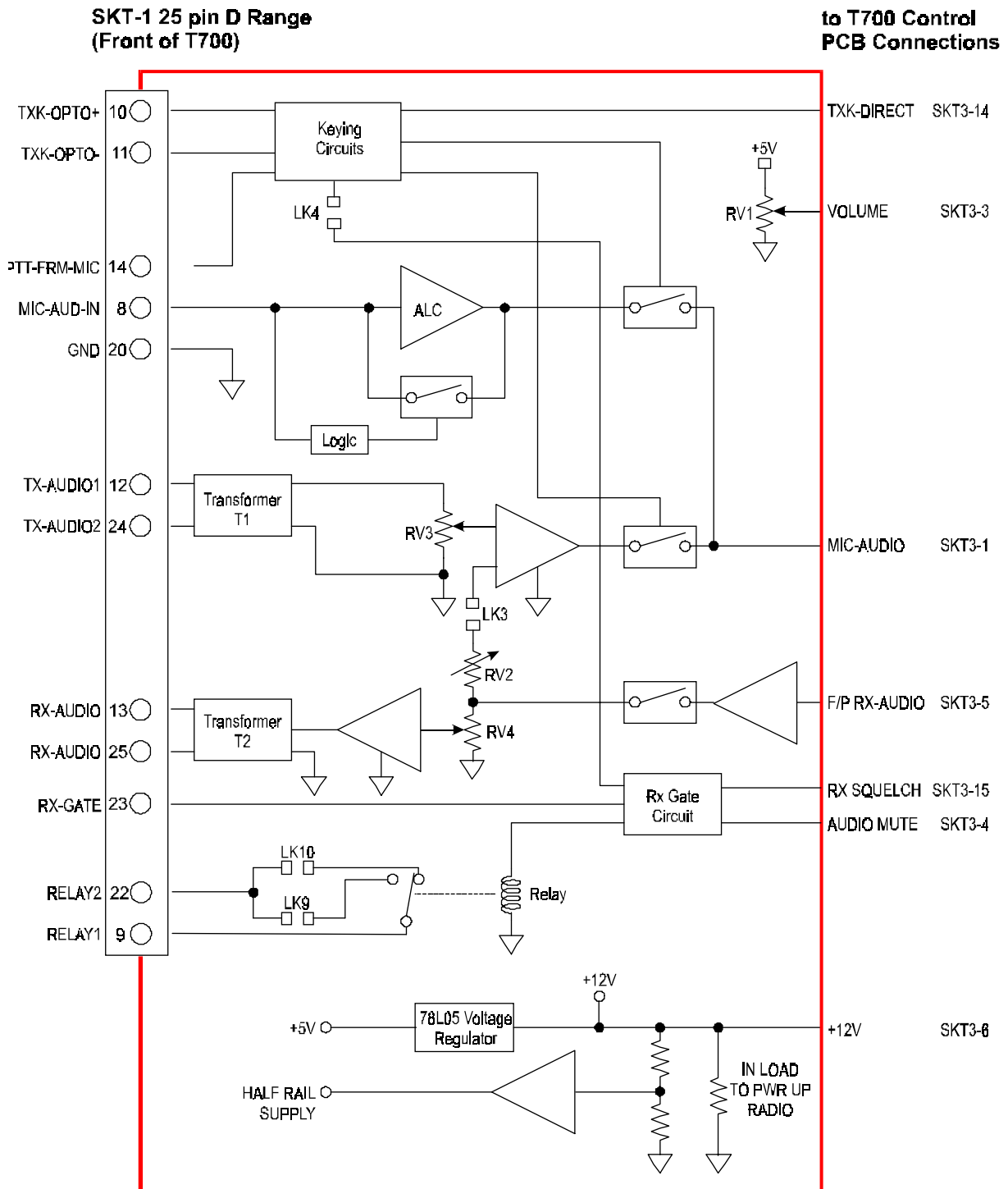
(Frequency range 300 Hz to 3KHz) = +10dBm

Current Consumption

Current Drawn 50mA typical

Circuit Description

TA122-03 Block Diagram



Keying Circuits

The TA122-03 has provision for 2 types of keying signal:

- i. An opto isolated input which may be Link set to be active high or active low.
- ii. A pull to ground from a microphone PTT input.

TX Key Opto

Activation of the TXK-OPTO key will connect the TX-AUDIO1 to the MIC-AUDIO. Also, the TXK-DIRECT line to the radio will be activated and will make the radio transmit. The inputs to the TXK-OPTO circuit are controlled by two links, LK-1 and LK-2. The following options are available:

LK-1	LK-2	Circuit operation
Open	Open	Apply 48V across the TXK-OPTO inputs to make the radio transmit.
Open	Closed	Apply 12V across the TXK-OPTO inputs to make the radio transmit.
Closed	Open	Invalid.
Closed	Closed	Pull TXK-OPTO-(pin 11) to GND to make the radio transmit (standard setting).

Microphone PTT

If the microphone PTT line (PTT-FRM-MIC) is pulled low, the radio will transmit. This also causes the amplified microphone input to be fed to MIC-AUDIO via IC6-11 and 10.

Simultaneous Operation of both Keying Inputs

In the case of both the TXK-OPTO and the PTT-FRM-MIC being active at the same time, the TXK-DIRECT line to the radio will be pulled low and the radio will transmit. The choice of which audio signal is passed to the radio is controlled by two links, LK-7 and LK-8.

LK-7	LK-8	Circuit operation with TXK opto and microphone PTT both active.
Open	Open	Microphone input and TX Audio both connected to Mic Audio.
Open	Closed	600 Ohm line input to radio.
Closed	Open	Microphone input connected to Mic Audio (standard setting).
Closed	Closed	Neither input connected to Mic Audio

Audio Paths

TX Audio Path

TX-AUDIO is applied to SKT1 pins 12 and 24 and connects to T1 (a 600 ohm Balancing transformer) to allow for Balanced Line Connection. D1 & D2 clip excessive signal levels. The preset RV3 adjusts the Input Level into the Amplifier stage, IC1. IC6 gate A switches the audio path off and on with the keying signal from Q1. The TX Audio then passes via blocking capacitor C33 to the MIC-AUDIO input of the radio.

The input range for the TX-AUDIO input may be adjusted by the appropriate settings of links 13 and 14 as follows:

INPUT RANGE (dBm)	LK13	LK14
0	CLOSED	CLOSED
-10 (STANDARD)	OPEN	CLOSED
-20	OPEN	OPEN

Microphone Audio Path

The microphone audio (MIC-AUD-IN) is connected to SKT1, pin 8. Under normal circumstances this is amplified and passed to IC6, gate D, which switches the audio path off and on with the keying signal from the microphone PTT and Q2. The microphone audio then passes via blocking capacitor C33 to the MIC-AUDIO input of the radio.

When a control head is fitted to the TA122-03, the microphone amplifier is automatically bypassed so as to avoid too much gain and dual AGC stages in the MIC-AUDIO path. The switch-over circuit senses the presence of the control head and forces the changeover.

RX Audio Path

The RX-AUDIO is connected via SK3 Pin 5 into a Buffer Amplifier IC2/A. The signal then passes to Gate B of IC6. When the Gate Signal on IC6 pin 5 is high, the Audio is switched onto the Line Driver Amplifier IC3. RV4 adjusts the level into the Amplifier. The output of IC3 is connected to a 600 ohm Balancing Transformer T2. Balanced audio output is available on SKT1 pins 13 and 25.

The output range for the RX-AUDIO input may be adjusted by the appropriate settings of links 15 and 16 as follows:

OUTPUT RANGE (dBm)	LK15	LK16
0	CLOSED	CLOSED
-10 (STANDARD)	OPEN	CLOSED
-20	OPEN	OPEN

RX Gate Circuits

Gating Source

The RX-GATE signal may be sourced either from the radio's RX SQUELCH signal or the AUDIO MUTE signal. The polarity of the RX SQUELCH and the AUDIO MUTE are opposite, so Q5 is used to invert the AUDIO MUTE input and match the signals at the option links (LK5 and LK6). Rx squelch is available on board. Audio Mute, if required, is to must be wired from the T700 Control board as described in the Fitting instructions (Section of this manual).

The selection of the gating source is selected using LK5 and LK 6 as follows:

GATING SOURCE	LK5	LK6
RX-SQUELCH	CLOSED	OPEN
AUDIO MUTE (STANDARD)	OPEN	CLOSED

Operation of Gating Circuits

If the gate signal following the options links (LK5 & LK6) is low (no carrier and/or valid signalling present), then Q6 is off and the RX-GATE output on SKT1 pin 23 is high. Q7 will be off so that the relay (RLY1) will not be active. Q8 will also be off and so IC6 gate B will NOT pass the RX-AUDIO signal through to the line driver amplifier.

If the gate signal following the options links (LK5 & LK6) is high, then Q6 is on and the Rx-GATE output on SKT1 pin 23 is low. Q7 will be on, so that the relay (RLY1) will be active. Q8 will also be on and so IC6 gate B will pass the RX-AUDIO signal through to the line driver amplifier.

Gate Relay Contacts

The relay has two sets of contacts. One set is connected to 3 I/O pads, S1, S2 and S3. The other set is connected to SKT-1 pins 9 and 22. This set of contacts may be selected to be either normally open or normally closed using the links LK9 and LK10 as follows:

RELAY CONTACTS	LK9	LK10
NORMALLY OPEN (STANDARD)	CLOSED	OPEN
NORMALLY CLOSED	OPEN	CLOSED

Repeater Operation

Note: The radio must be converted to Duplex for this function to work.

The repeater function is enabled by fitting links, LK-3 and LK-4. LK-4 enables the RX-GATE signal from Q6 to control the TXK-DIRECT line to the radio. This will also turn off Q1 thereby operating IC6 gate A, enabling the TX-AUDIO path. The audio from the receiver is taken from the output of IC6 gate B, via LK-3. RV2 sets the talk through audio level onto the TX audio buffer amplifier IC1.

Other Functions

Some other radio functions may be accessed through the 25 way D Range connector SKT1.

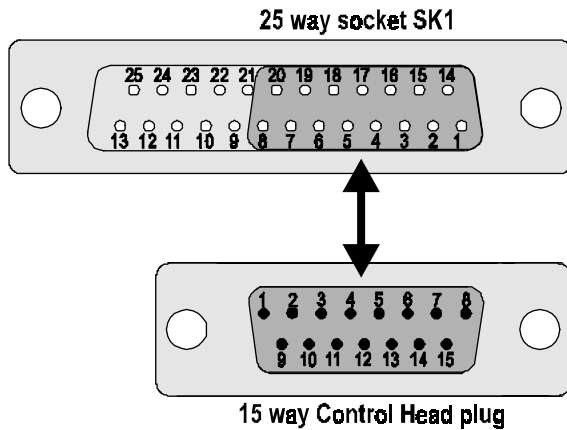
Control Head Fitted

Where a Control Head is fitted to the TA122-03 unit, the unit's 25 way D Range socket is wired so that the Control Head 15 Way Plug connects as in the table below.

The 25 way D Range socket pins 8 to 1 match up with pins 1 to 8 on the 15 way D Range plug *except* for pin 2 on the 25 way D Range. On the 25 way D Range, pin 2 is not connected but the matching pin on the 15 way D Range (pin 7) is connected to BCD4.

25 way D Range socket pins 20 to 14 match up with 15 way D Range plug pins 9 to 15

25 WAY-SCKET PIN	CONNECTION	DESCRIPTION	15 WAY PLUG PIN
1	SQ	Signalling Squelch O/P	8
2	None	Not Connected	7
3	BCD2	BCD Line, active high	6
4	BCD0	BCD Line, active high	5
5	DTR-O/P	Data to Radio	4
6	F/P-Rx-Audio	De-emphasised receiver audio	3
7	Volume	DC level from Control Head Volume Control	2
8	Mic-Aud-In	Mic audio input before pre-emphasis	1
9	Relay1	Rx Gate relay contact 1, normally open	
10	TXK-Opto+	10mA current loop to activate transmitter	
11	TXK-Opto-	10mA current loop to activate transmitter	
12	Tx-Audio1	600 Ohm balanced Tx Audio I/P+	
13	Rx-Audio	600 Ohm balanced Rx Audio O/P	
14	Ptt-Frm-Mic	PTT input for Control Head Mic	15
15	BCD3	BCD line, active high	14
16	BCD1	BCD line, active high	13
17	Dfr-1/P	Data from radio for programming and Control Head Commands	12
18	+12v	Supply for Control Head and programming lead	11
19	SQ-Level	DC level from Control Head to set squelch opening	10
20	Gnd	Ground	9
21	Monitor	Not connected	
22	Relay2	Rx Gate relay contact 2, normally open	
23	Rx-Gate	10K to +12v O/P shorts to Gnd when carrier present	
24	Tx-Audio2	600 Ohm balanced Tx Audio I/P-	
25	Rx-Audio	600 Ohm balanced Rx Audio I/P-	



Use the table on the previous page and this diagram to connection between the 25 way socket SKT1 at the front of the T700 radio and the 15 way plug on the control head.

PTT via MIC-AUD-IN

When the control head is fitted and the PTT pressed, a DC voltage appears at the MIC-AUD-IN. This DC voltage activates Q10 on the TA122-03 board. Q10 pulls low PTT-FRM-MIC line. This feature allows the control head to be used without modification. The earlier modification whereby the PTT contact was connected to pin14 of the control head D-range was required to get the MIC-AUDIO switched to the radio on the TA122-03 PCB.

- iii. With the control head fitted, a DC level of approximately 5V on MIC-AUDIO O/P on Control Head will cause the TA122-03 to transmit and pass on audio to the radio
- iv. With the control head fitted, the transmitter is activated via the normal data string to the radio when the PTT is pressed.

BCD Channel Selection

Four BCD channel selection inputs are available (BCD0 to BCD3) giving sixteen possible channels. These are on the following pins of SKT-1: BCD0 on pin 4; BCD1 on pin 16; BCD2 on pin 3; BCD3 on pin 15. The inputs are taken directly through to the T700 control board where they are pulled down to ground with 47K resistors. To drive the BCD inputs, voltage levels of 0V or 5V should be used.

When BCD is chosen, CAL and LED signals on SK4 pins 6 and 2 of the Control PCB must be linked to ground.

Programming Radio Parameters

The radio parameters may be programmed through SKT1. Data to the radio (DTR) is on pin 5. Data from the radio (DFR) is on pin 17.

RX Audio Output

The RX audio signal is available on SKT1 pin 6.

Radio Volume

The radio volume is connected to SKT-1, pin 7 as standard. The input is a voltage level of 0 to 5 volts with 5 volts giving minimum volume and zero volts, maximum volume.

The volume may alternatively be internally set to a defined value using RV1.

Selection of internal or external volume control is achieved using links LK11 and LK12 as follows:

VOLUME CONTROL	LK11	LK12
INTERNAL	OPEN	CLOSED
EXTERNAL (STANDARD)	CLOSED	OPEN

Squelch Control

The radio squelch level may be set up using SKT1 pin 19. Input range is 0 to 5V. RX squelch is active high, ie with a carrier present, RX Squelch output is high. The RX squelch output is brought out to SKT1 pin 1.

Monitor Function

An input has been included to perform a monitor function. If this is to be used, then it needs to be set up as described in Installation section of this manual). The monitor input is on SKT1, pin 21.

When installed and enabled, the monitor function will disable the audio mute and output the received audio to the speaker continuously. The monitor function is enabled by pulling the monitor input to ground. To disable the monitor function, the monitor input should be set to open circuit.

Voltage Regulator and Supplies

12 Volts is supplied to the PCB from the Radio via SK3 pin 6. This directly supplies IC1, IC2, IC3 and IC6 and several other Transmitter circuits requiring 12V. Also a 5V Regulator IC5 provides 5V for RV1, the Volume Preset. IC1/B is used as a Buffer from R22, R23 & C5 to provide a buffered half-rail supply for biasing the OP Amps IC1/A, IC2/A and IC2/B.

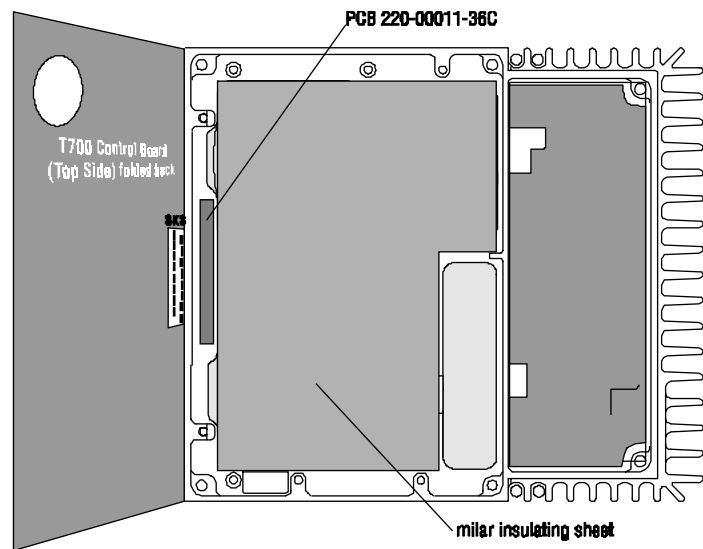
Installation

Remove PCB

1. Disconnect 16 way Control Board Loom from PCB 220-00011-36C at S1.
2. Remove PCB 220-00011-36C, its rubber grommet and screws, retaining the two screws.

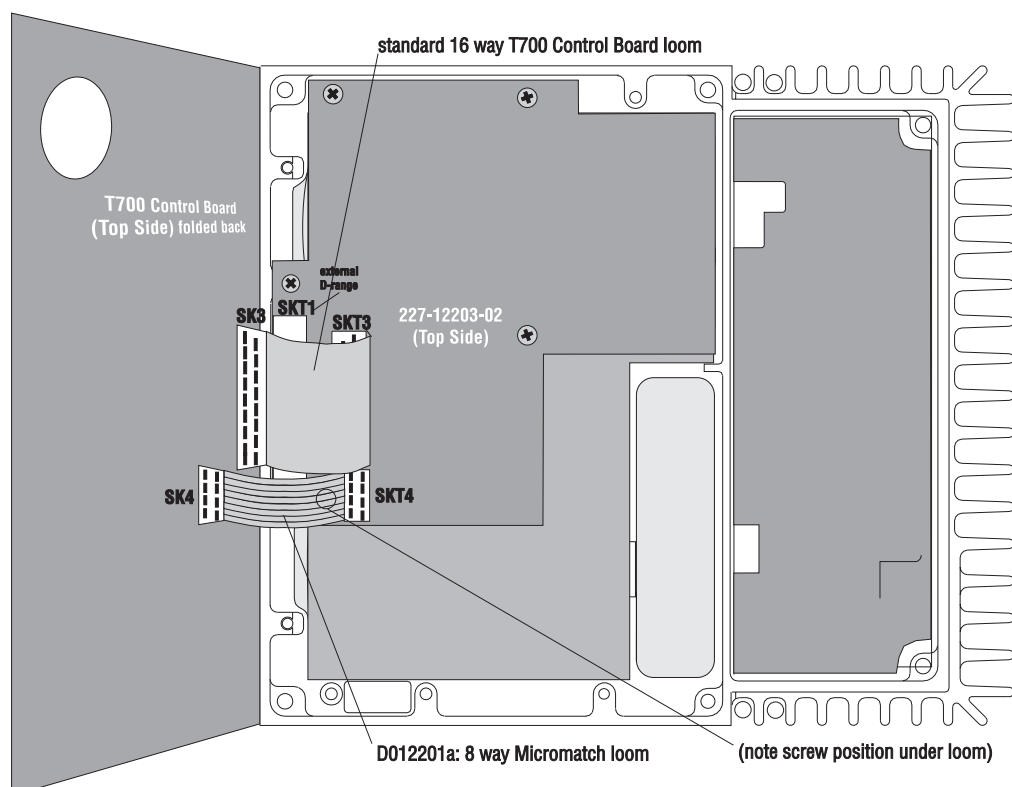
Fit Milar Sheeting

1. Lay Milar with shiny side up, matching holes and notches.



Fit PCB 227-12203-02

1. On top of Milar sheet, fit new PCB 227-12203-02 as shown.
2. Using two screws from PCB 220-00011-36C and three from TA122-03 kit, screw new board to radio where shown.
3. Connect 16 way Control Board Loom from SK3 to new board at SKT3.
4. Connect 8 way micromatch loom to new board SKT4 and Control Board SK4.



Audio Mute Option

If Audio Mute is required to operate the RX gate circuitry, a wire must be taken from PAD 5 on the TA122-02 PCB to the T700 control board. Take the wire up to the control board, in front of SK2 and through the hole just by *Q4 and D72. Then take the wire along the solder side of the Control board and connect to the test point beside C109 (the test point has a track leading to R131).

Monitor Option

If the monitor function is required, a wire is taken from the pad, S4 on the TA122-03 PCB to the T700 control board. Take the wire up to the control board, in front of SK2 and through the hole just by *Q4 and D72. Then take the wire along the solder side of the Control board and connect to the middle pin of Q101 (next to R132). This point must also be linked to the middle pin of Q100 (between R114 and R116).

Tuning and Adjustment

Standard Link Settings

LINK IDENTITY	FUNCTION
LK1 OPEN LK2 CLOSED	Assert 12 volts between SKT-1 pins 10 and 11 to activate TXK-OPTO
LK3 OPEN LK4 OPEN	Repeater operation not selected
LK5 OPEN LK6 CLOSED	RX gate circuitry taken from AUDIO MUTE.
LK7 CLOSED LK8 OPEN	Microphone audio to radio if both keying circuits active
LK9 CLOSED LK10 OPEN	Relay normally open.
LK11 CLOSED LK12 OPEN	Volume control taken from SKT-1 pin 7.
LK13 OPEN LK14 OPEN	TX-AUDIO input range = -10 dBm
LK15 OPEN LK16 CLOSED	RX-AUDIO output range = -10 dBm

Tuning and Adjustment

There are 4 presets on the PCB which may be set when the TA122-03 PCB is installed in the host T700 radio.

- RV1 sets a fixed volume level if no external volume control is to be used. If this is required, then LK11 should be removed and LK12 should be fitted.
- RV2 is used when operating in repeater mode. If this is required LK3 and LK4 should both be fitted. RV2 then sets the level of RX-AUDIO fed back to the MIC-AUDIO.
- RV3 sets the level from the 600 ohm Transmitter Audio Line inputs to the MIC-AUDIO input in the T700. This will need to be adjusted to give the required Transmitter deviation for the Line Level supplied to T2.
- RV4 sets the Receiver Audio Output Level (F/P RX-AUDIO) and should be adjusted for the appropriate output level from T1 when receiving a signal,. It is usually set to -10dBm.

With the TA122-03 PCB fitted to the radio, make the following adjustments;

Rx Adjustments

1. Connect Rx-Audio to Tx-Audio to provide a load.

2. Adjust RV1 fully anti-clockwise.
3. Set Test Set to current radio Rx frequency and RF level to -47 dBm.
4. Set the audio frequency on the Test Set to 1KHz at 3KHz deviation.
5. Adjust RV4 to give -10 dBm on the Rx-Audio output, and check that there is <2% distortion on the signal.
6. Check that turning RV1 clockwise increases the speaker tone volume. Leave tone set at a comfortable volume.

Tx Adjustments

1. Disconnect Rx-Audio and Tx-Audio if connected.
2. Turn off the Test Set transmitter and set to Tx Tests.
3. Set audio generator to 1KHz at -10 dBm and feed into pins 12 and 24 of the 25 way D Range.
4. Make the radio transmit using pins 10 and 11 of the 25 way D Range.
5. Adjust RV3 to set the audio frequency to 1KHz at 3KHz deviation.
6. Check that there is <2% distortion on the signal.

PCB Information

Parts List

Board Name: TA122-03

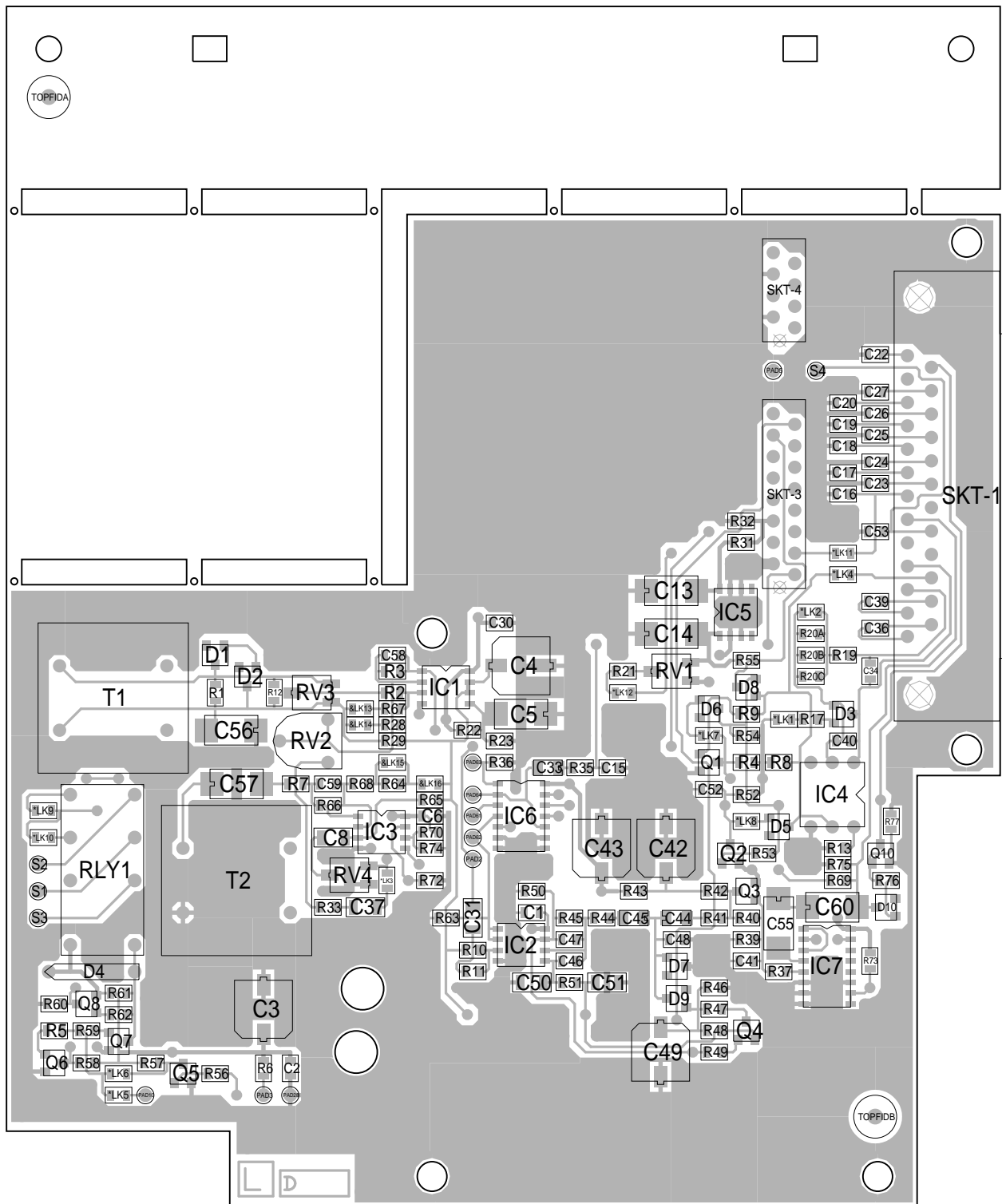
IPN:227-12203-01

Issue:A

QTY	DESIGNATIONS	VER	IPN	DESCRIPTION
1	TA122-03	A	227-12203-01	Printed Circuit Board
2	Q4, Q8	3	000-10008-07	TRANSISTOR BC807 PNP AF LOW POWER
8	Q1, Q2, Q3, Q5, Q6, Q7, Q9, Q10	1	000-10008-48	TRANSISTOR BCW60/BC848 NPN AF SMALL SIG
1	D4	3	001-00011-70	DIODE 1N4001 1A/50V
1	D8	6	001-10000-56	DIODE BAW56 DUAL SWITCH COMMON ANODE
1	D3	4	001-10000-70	DIODE BAV70 DUAL COMM CATHODE GEN SWITCH
4	D5, D6, D7, D9	4	001-10000-99	DIODE BAV99 DUAL SW(PIN3 IS ANODE / CATH)
1	D10	1	001-10084-33	DIODE ZENER BZX84/C3V3 (PIN 1 IS N.C.)
2	D1, D2	1	001-10084-62	DIODE ZENER BZX84/C6V2 (PIN 1 IS N.C.)
1	IC4	1	002-00020-50	IC 4N25A OPTO COUPLER
2	IC1, IC2	2	002-10003-58	IC 358D DUAL OP AMP
1	IC7	2	002-10040-53	IC 4053BD 2CH MUX/DEMUX
1	IC6	1	002-10040-66	IC 4066BD QUAD BILATERAL SWITCH (SMD)
1	IC5	1	002-10078-05	IC 78L05CD REG 5V 100MA
1	IC3	2	002-10330-78	IC 33078D-R2 DUAL OP AMP LOW NOISE
2	C44, C45	1	014-06470-00	CAP 470N 25V TANT SMD CHIP
1	C33	1	014-07100-02	CAP 1U0 16V TANT SMD CHIP
7	C5, C13, C14, C55, C56, C57, C60	1	014-08100-00	CAP 10U 16V 20% TANT SMD CHIP
2	C50, C51	2	015-05470-08	CAP 47N 10% 50V X7R
3	C8, C31, C37	1	015-06100-08	CAP 100N 10% 50V X7R
3	C46, C48, C59		015-22470-01	CAP 47P 5% NPO 50V
1	C47		015-22680-01	CAP 68P 5% NPO 50V
16	C1, C2, C15, C16, C17, C18, C19, C20, C22, C23, C24, C25, C26, C27, C30, C53		015-23150-01	CAP 150P 5% NPO 50V
3	C34, C40, C52		015-24100-08	CAP 1N0 5% 50V X7R
2	C6, C41		015-24470-08	CAP 4N7 10% 50V X7R
2	C36, C39		015-25100-08	CAP 10N 10% 50V X7R
5	C3, C4, C42, C43, C49	2	016-08470-01	CAP 47U ELEC 16V 6.3*7.3MM SMD

QTY	DESIGNATIONS	VER	IPN	DESCRIPTION
16	*LK1, *LK2, *LK3, *LK4, *LK5, *LK6, *LK7, *LK8, *LK9, *LK10, *LK11, *LK12, & LK13, & LK14, & LK15, & LK16	1	036-10000-00	RES/LINK ZERO OHM
2	R6, R31		036-12220-00	RES 22 5%
1	R17		036-13390-00	RES 390 5%
1	R19		036-13470-00	RES 470 5%
1	R7		036-13560-00	RES 560 5%
1	R1		036-13680-00	RES 680 5%
5	R32, R35, R44, R47, R57		036-14100-00	RES 1K0 5%
1	R74		036-14150-00	RES 1K5 5%
2	R43, R68		036-14220-00	RES 2K2 5%
2	R39, R42		036-14270-00	RES 2K7 5%
4	R37, R41, R20A, R20B		036-14330-00	RES 3K3 5%
1	R76		036-14470-00	RES 4K7 5%
5	R21, R36, R50, R63, R67		036-14560-00	RES 5K6 5%
1	R28		036-14680-00	RES 6K8 5%
12	R8, R11, R12, R33, R40, R54, R58, R59, R60, R70 R72, R75		036-15100-00	RES 10K 5%
2	R49, R64		036-15120-00	RES 12K 5%
1	R20C		036-15180-00	RES 18K 5%
2	R3, R66		036-15220-00	RES 22K 5%
1	R46		036-15330-00	RES 33K 5%
16	R2, R4, R5, R10, R22, R23, R45, R52, R55, R56 R61, R62, R65, R71, R73, R77		036-15470-00	RES 47K 5%
4	R9, R29, R53, R69		036-16100-00	RES 100K 5%
1	R13		036-16390-00	RES 390K 5%
2	R48, R51		036-16470-00	RES 470K 5%
1	RV2	2	042-07100-06	TRIM POT 1MG0 HOR 6MM
3	RV1, RV3, RV4	1	042-15100-01	TRIM POT 10K LOG SMD
2	T1, T2	1	054-00010-16	TRANSFORMER 600 OHM LINE MATCHING 1:1 PCB MTG
0.06		1	205-00010-12	CABLE FLAT RIBBON 16 CORE GREY
1	RLY1	2	237-00010-22	RLY DPDT 12V DIL 10X10X20MM
2	1.0, 1.0	1	240-00020-56	SKT 8 WAY 2X4 MICROMATCH ICD (PURE MECH PART)
1	SKT-1		240-02010-59	SOCKET 25WAY RT ANGLE SIDE ENTRY DRANGE
2	M1, SKT-4	1	240-04020-50	SKT 8WAY 2X4 AMP MICRO MATCH TOP ENTRY
1	SKT-3	1	240-04020-54	SKT 16WAY 2X8 AMP MICRO MATCH TOP ENTRY
2	1.0, 1.0	1	316-80032-00	PACKAGE FOAM A4M2495 (MECH PART)

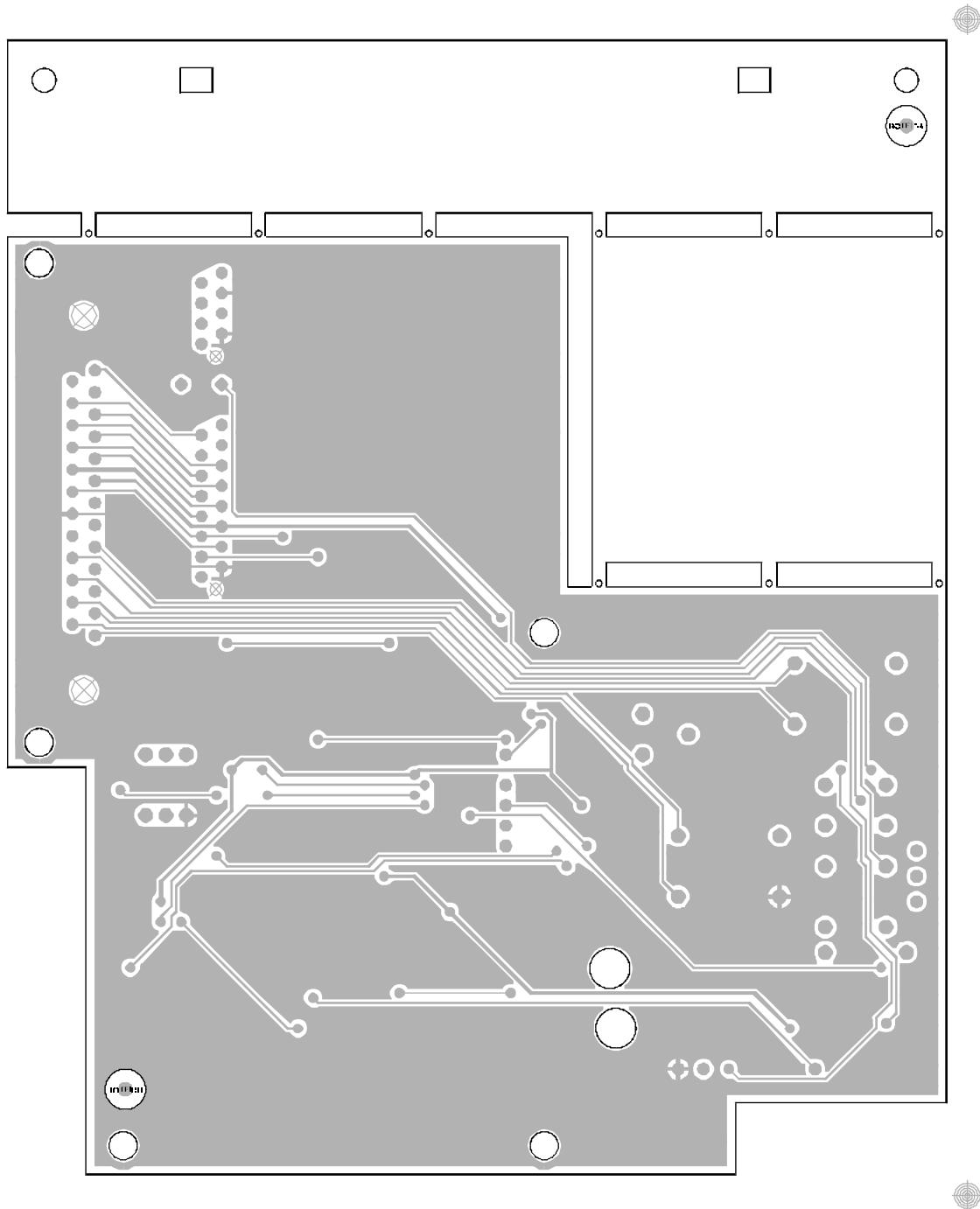
QTY	DESIGNATIONS	VER	IPN	DESCRIPTION
3	1.0, 1.0, 1.0	1	349-00020-32	SCREW TAPTITE M3*8MM PAN POZI ST BZ
1		1	365-01482-00	LABEL BLANK 20X67MM BRIGHT ORANGE
1		1	399-00010-51	BAG PLASTIC 75*100MM
1		1	399-00010-86	BAG STATIC SHIELDING 127*203MM
1		1	410-01072-00	CARTON ACCESSORY A2A678 204*136*60MM(MECH PART)
4	BOTFIDA, BOTFIDB, TOPFIDA, TOPFIDB	1	FIDUCIAL	FIDUCIAL MARK
1	C58	1	FOOT-PRINT	CAP PACKAGE OUTLINE ONLY
13	S1, PAD2, S2, S3, PAD3, S4, PAD5, PAD10, PAD28, PAD61, PAD62, PAD63, PAD64	1	I/O-PAD	PAD HOLE FOR OFF BOARD WIRE CONNECTION



TAIT ELECTRONICS	IPN:	ISS:	ID:	DATE:
	227-12203-02	A	1.TA	18 Sep 1997
TA122-03 PCB LAYOUT - TOP SIDE				

Scale:1.4:1 ; Rotation: 0 degrees

PCB Layout (Bottom Side)



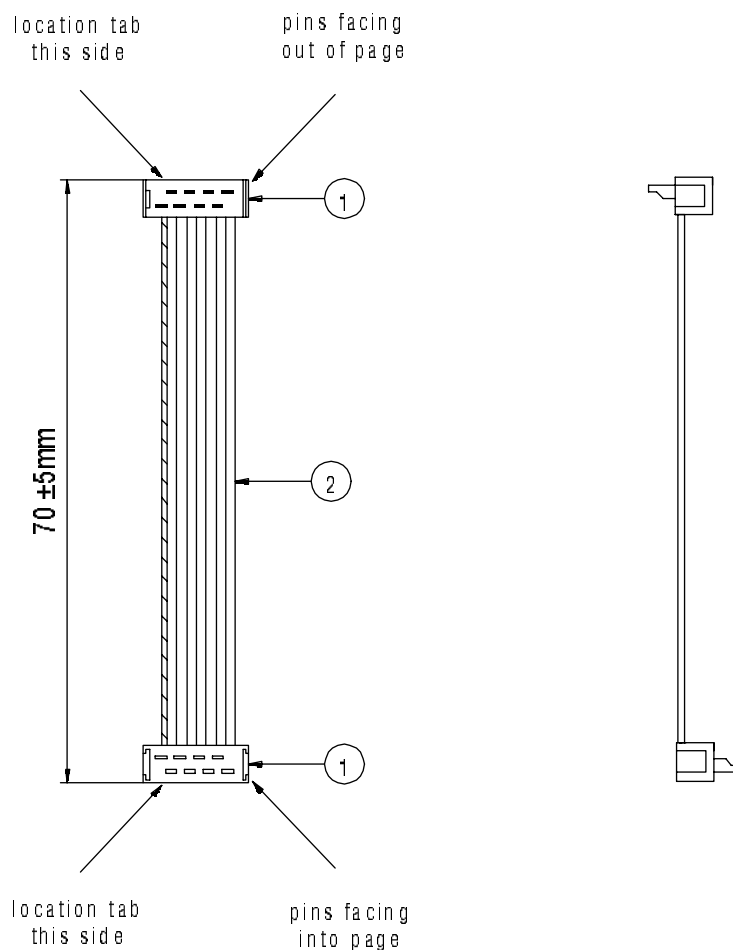
TAIT ELECTRONICS	IPN: 227-12203-02	ISS: A	ID: 2.BA	DATE: 17 Sep 1997
TA122-03 PCB LAYOUT - BOTTOM SIDE				

Scale: 1.4:1; Rotation: 0 degrees

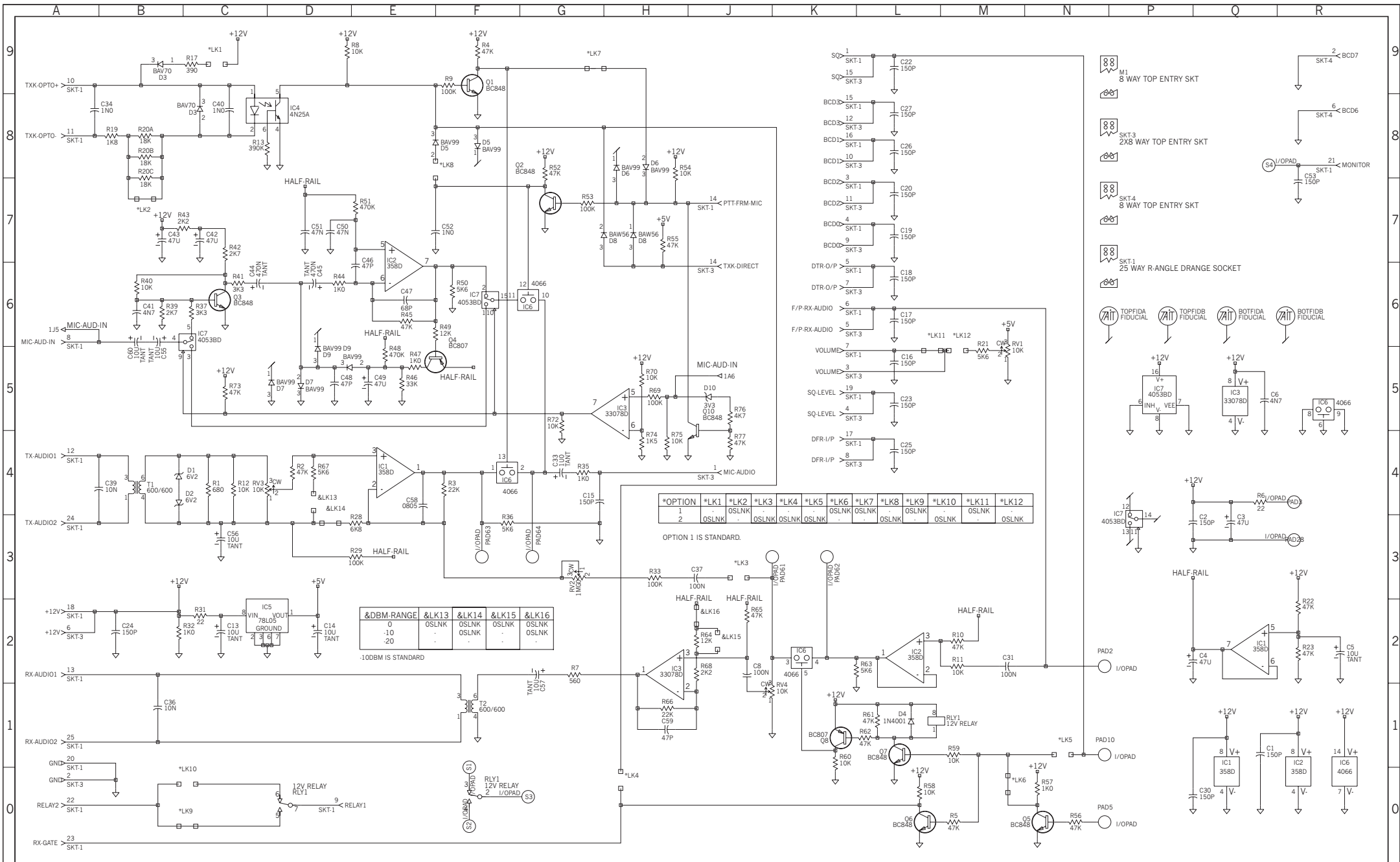
Internal Cable Specifications

D012201a: 8 Way Micromatch Cable

Connects SKT4 on TA122-03 PCB and SK4 T700 Radio Control PCB



ITEM	DESCRIPTION	QTY	SUPPLIER	SUPPLIER PART
1	8 pin micromatch plug	2	Tait	240-00020-56
2	16 way IDC cable	70mm	Tait	205-00010-12



*OPTION	*LK1	*LK2	*LK3	*LK4	*LK5	*LK6	*LK7	*LK8	*LK9	*LK10	*LK11	*LK12
1	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK
2	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK	OSLNK

OPTION 1 IS STANDARD.

&DBM-RANGE	&LK13	&LK14	&LK15	&LK16
0	OSLNK	OSLNK	OSLNK	OSLNK
-10	OSLNK	OSLNK	OSLNK	OSLNK
-20	OSLNK	OSLNK	OSLNK	OSLNK

-10DBM IS STANDARD

2A	TA0122-03-97-0001	M.HALL	B.H.V	M.HALL	S.CRAGG	22-10-96	QTY: 1.0	IPN: 410-01072-00	CARTON ACCESSORY A2A678 204*136*60MM(MECH PART)
1A	CLONED FROM TA122-02	M.HALL	B.H.V	M.HALL	S.CRAGG	22-10-96	QTY: 1.0	IPN: 399-00010-86	BAG STATIC SHIELDING 127*203MM (MECH PART)
							QTY: 1.0	IPN: 399-00010-51	BAG PLASTIC 75*100MM (MECH PART)
							QTY: 1.0	IPN: 385-01432-00	LABEL BLANK 20X3/MM BRIGHT ORANGE (MECH PART)
							QTY: 3.0	IPN: 349-00020-32	SCREW TAPTITE M3*8MM PAN POZI ST B2 (MECH PART)
							QTY: 2.0	IPN: 316-80032-00	PACKAGE FOAM A4M2495 (MECH PART)
							QTY: 2.0	IPN: 240-00020-56	SKT 8 WAY 2X4 MICROMATCH ICD (PURE MECH PART)
							QTY: 0.06	IPN: 205-00010-12	CABLE FLAT RIBBON 16 CORE JURY (MECH PART)

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TA122-03

T700 600 OHM INTERFACE MIC I/P

ISSUE: 2.S.C. 1

227-12203-02

PROJECT: TAI22-03 DESIGNER: B.H.V. FILE NAME: A012232A FILE DATE: 16-09-97 NO. SHEETS: 1