ROUTE

1222-044

ENGINEERING MANUFACTURING INSTRUCTIONS --- No. 5764



SUBJECT

CARD TESTING

SECTION--551 PART-1&3 PAGE-CONT'D on PG.-

CAN-GEB-062120551-A

1. PURPOSE

> Testing of: INPUT BRIDGE (DC TACH) 621L551G1

2. ELEMENTARY

S&C Data Bk 1190 sect 551 Dwg 266A9872

EQUIPMENT 3.

- PN15VDC Reg Power Supply a) 15VDC Variable Power Supply
- Multimeter John Fluke 8300 or equiv. b)
- Resistor 1 M ohm 1% 177A1017P17 C)
- Resistor 10K 18 177A1015 P 023 d)
- Resistor 620 2W 0:

SET-UP 8 18 6

5. TESTS

> Power Supply a)

Apply PN15VDC * 1)

Plov 2) Adjust R9 for +10V + 0.1V at

Adjust R10 for -10V + 0.1V at N10V 3)

Switch operation

CP13 LET WARM UP FEW MINS CP14

Connect CP21 to CP22 and measure the voltage at CP17 for the following conditions.

_			
	Prepared By	Section and Unit	Type Names Signatures
	H. Keyzers	; IC 910	Prod. Engineering ST. Strong. USS. Tallars
	Date Issued 30 Aug 78	Supersodes Issue Dated New	Manuf. Eng. J Legros Salagranish
	SIGNATURES P	RED AS SHOWN	Guality Control . H. Marksfield . W

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CARD TESTANG

SECTION- 551 PARI---18.3 PAGE-2 CONT'D on PG.

				_			
10011	CONNE	CT	PBI	RE	ITB13	ITB16	CP 17
		CP 16	DOWN	cW	OPEN	OPEN	+ 5 48
	C P 15	CP14	NWOG		Della.	market P	-5V
			UP				OV
		▼				(OV)	(-5V)
		CP 13	2		7	OPEN	OV
	CP 12	CP13			ov		+5V
	To:	HAD	1 7	4	ov		-5V
	an and the second	CPII	UP	CCW	OV	7	OV

Mea	sure	voltage a	at TB-11	for .		OP.
973		TB-10	TB-12	R7	R6	TB-il
		SPEN .	CPEN	CW	CCW	0
	(1)	O VOLTS	OPEN	CCW	CCW	
Mark.	# 11U	OPEN	O VELTS	CCW	CW	-0.75 V
	(iv)	OPEN	O PEN.	CCW	ČW	0
c)	Tach	inputus	OPEN	CW	CCW	1+0,75V

- Connect 1 M ohm 1% resistor in place of R31 1)
- With Rl CW and TB-1 connected to OV 2) Adjust R3 for 0V + 1 mV at CP3
- Similarly adjust $\overline{R}4$ for $0V \pm 1mV$ at TB2. 3)
- Apply +1V to TB-1 4)
- With Rl CW CP3 should be $-5.5V \pm .55V$ and TB-2 5) should be +5.5V + 0.55.
- With Rl CCW CP3 should be -0.5V + .2V and TB-2 should be +0.5V + .2V. Revenpent for some results
 - d) Tach Amp
- 1) Connect CP2 to CP3. Connect 10K 1% resistor inplace of R80.

Apply approx IV to TB-1 and adjust R1 until CP3 is -5.0V. 2)

Voltage at CP5 should then be +5.0 + .1V (Rev mput 3)

4) Connect ammeter between TB-6 and OV

- With CP5 at 5V current should be 1 mA for R5 CW and 0.33 mA for R5 CCW 900 pec and 0.33 mA for R5 CCW
- Connect ammeter between TB-4 and OV
- Current should be-1mA for R2 CW and-0.33 mA for R2 CCW 7)

Prepared By	; Section and Unit	Type Names : Signatures		
H. Keyzers	IC 910	Prod. Engineering JT. Strong USTUME. 57		
Date Issued 30 Aug 78	Supersedes Issue Dated New	Manuf. Eng. J. Legros Salagram 25/09/13		
		Order Cornel II Marksfield / College		
SIGNATURES RE	"D AS SHOWN	Engla. Lah		

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ENGINEERING MANUFACTURING INSTRUCTIONS -- No. 5764



SUBJECT

CARD TESTING

SECTION- 551 PART— 1&3 PAGE-CONT'D on PG.-F

Absolute value op-amp and relay driver connect TB2+0

Connect 620 ohm resistor between TB-8 and OV or 114 1)

2) Connect CP5 to CP6

Adjust voltage at TB-1 to OV 3)

Voltage at TB-8 should be P15 2 12V +12.7V 4)

Increase voltage at TB-1 until TB-8 is OV (IP or 12V+) 5)

Voltage at CP6 should be >+1V.9U 6)

Decrease voltage at TB-1 to OV and TB-8 should go to Pl5V again ≈ 12 U

Reference Clamp

INTERACT Connect TB-21 & TB-22 to 0V 1)

Adjust R11 for 0V + .1 mV at CP19 Repeat 2+3 till 0±. ImV Adjust R12 for 0V + .1 mV at CP23 Repeat 2+3 till 0±. ImV 12)

3) Connect TB-22 to -10.000V. Leave TB-21 at 0V 4)

In the following test it is imperative that that same 5) Note: meter is used on the same scale and the same input lead configuration.

Connect DVM (+) of meter to TB-18(6V) a)

" TB-22 DVM (+) b)

-10V Note this reading C) Connect DVM (+) of meter to TB-18 (64) d)

17 " CP-19 DVM (+) e)

Adjust R13 to read (10.000V) (+ 1mV) ADJ TO READ. f)

to CP23 Connect DVM(+) of meter q)

" TB18 (OV) 11 · DVM(-) · h)

Adjust Rl4 to read OV + lmV i)

Measure resistance from: q)

> @ 10K ohm CP20 to CP23 " TB20 🔊 15K 🗮 RH1 CW CP20 " TB20 🥝 65K 📺 RH1 CCW CP20 " CP18 (@165K RH1 CCW CP20

6. SEALING

The following pots are to be sealed R3, R4, R9, R10, R11, R12, R13, R14

 	Section and Unit	1 Type Names	Signatures
Prepared By H. Keyzers	TC 910	Prod. Engineering JT Strong	1005toneuson
Date Issued	Supersedes Issue Dated	Prod. Engineering	CAL WALL
30 Aug 78	New	Manuf. Eng. J Legros	D. 17. 16 44. 10. 15 10 153 11
72.21		Quality Control Marksfield	
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