

VESTAX

SERVICE NOTE

MODEL: PDX- a2

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Vestax Corporation Service Department

PDX a2 Adjustment manual

1. Temperature Sensor Comparative Voltage Adjustment

Measurement Point : TP-4 (VC) TP-I(GND)
Adjusting Point : R351 (470ohm Cermet Trimmer)
Measurement Equipment : DC Millivoltmeter (input impedance 100K ohm)
Setting Conditions : Power on. Turntable stopped.

Adjustment Sequence :

- (1) Power on.
- (2) Connect DC Millivoltmeter to TP-4.
- (3) Adjust R351 to give $1,540\text{mV} \pm 5\text{mV}$.

2. Center Frequency of Pitch Control Adjustment

Measurement Point : TP-3 (CP) TP-I(GND)
Adjusting Point : L501 (3.3mil OSC Coil)
Measurement Equipment : Frequency Counter
Setting Conditions : Power on.- Turntable stopped. Quartz Lock o-ff.

Adjustment Sequence:

- (1) Power on.
- (2) Connect Frequency Counter to TP-3-
- (3) Pitch control fader center position.
- (4) Adjust L501 for Frequency Counter $230.4\text{KHz} \pm 0.1\text{KHz}$.

3. Meter Sensitivity adjustment.

Measurement Point : Check meter needle deflection.
Adjusting Point : R506 (4.7Kohm Cermet Trimmer)
Measurement Equipment: : N/A
Setting Conditions : Power on. Turntable stopped. Quartz Lock off.

Adjustment Sequence:

- (1) Power on.
- (2) Quartz Lock off.
- (3) Set Pitch control fader to @10% position.
- (4) Adjust R506 so that meter shows +10%.
- (5) Set Pitch control fader to -10% position.
- (6) Recheck points so that -10% and +10% are in correct position.

4. APC Offset Adjustment

Measurement Point : TP-2 (APC) TP-1(GND)
Adjusting Point : R308 (47Kohm Cermet Trimmer)
Measurement Equipment : DC Millivoltmeter (input impedance 100Kohm.)
Setting Condition : Power on. Turntable 33 1/3rpm. Quartz Lock on.

Adjustment Sequence:

- (1) Power on.
- (2) Quartz Lock on, Speed 33 1/3 rpm, Start.
- (3) Adjust R308 so that DC Millivoltmeter shows $3.5\text{volt} \pm 0.2\text{volt}$.
- (4) Set Pitch control fader to -10% position.

NOTE; Rotate R308 slowly to allow correct voltage to set.

PARTS LIST

MODEL	PDT-5000	LIST NAME		CODE	
PARTS NO	SPECIFICATION			PCB	BRAND
	STANDARD	PARTS NAME			
L501	M-8G, OSC-3.3M	COIL		MAIN	SUMIDA
R501	10KB	SLIDE VR		MAIN	TUBAME
R351	471B	SEMI FIXED VR		MAIN	
R506	472B	SEMI FIXED VR		MAIN	
R308	473B	SEMI FIXED VR		MAIN	
S101	KEY01C1PY	SW		MAIN	ALPS SKHH
S102	KEY01C1PY	SW		MAIN	ALPS SKHH
S103	KEY01C1PY	SW		MAIN	ALPS SKHH
J101	2P	US JACK		MAIN	JALCO
J102	3.5	JACK		MAIN	JALCO
Z-301	X-HC-49/U-7.37M	CRYSTAL OSC.	9215393200	MAIN	TOMIYO
		FUSE HOLDER			JALCO
		POWER TURMINAL			IRISO
		HEAT SINK			RYOSAN
J091	2P	PIN TURMINAL		MAIN	NITIATU
J032	3P	PIN TURMINAL		MAIN	NITIATU
J033	3P	PIN TURMINAL		MAIN	NITIATU
J034	3P	PIN TURMINAL		MAIN	NITIATU
J052	4P	PIN TURMINAL		MAIN	NITIATU
J035		CONNECTOR	B2B-PH-K-S	MAIN	NITIATU
J012		CONNECTOR	PH-2-03P	MAIN	NITIATU
J071		CONNECTOR	PH-2-04P	MAIN	NITIATU
J011		CONNECTOR	PH-2-06P	MAIN	NITIATU
J051		CONNECTOR	S4B-PH-K-S	MAIN	NITIATU
J031		CONNECTOR	B3P-VH	MAIN	NITIATU
J035	2P	SOCKET ASSY		MAIN	UNIT
J012	3P	SOCKET ASSY	9672170700	MAIN	UNIT
J051	4P	SOCKET ASSY	9672170900	MAIN	UNIT
J071	4P	SOCKET ASSY	9672171000	MAIN	UNIT
J011	6P	SOCKET ASSY	9672171100	MAIN	UNIT
TP001		SB HEADER		MAIN	NITIATU
TP002		SB HEADER		MAIN	NITIATU
TP003		SB HEADER		MAIN	NITIATU
TP004		SB HEADER		MAIN	NITIATU

PARTS LIST

MODEL	PDT-5000	LIST NAME		CODE	
PARTS NO	SPECIFICATION			PCB	BRAND
	STANDARD	PARTS NAME			
	LH-5-8	SPACER			
	RVC1.2 BLK				
	UL1007 AWG24	ORANGE LEAD			
	UL1007 AWG22	BLACK LEAD			
	BID3D*06MS2N3AI				
	2DTBID3008CR3C				
	TLC-134 t1.6	PCB			
Q307	2SA1584-Q-TP	T.R		MAIN	ROHM
Q308	2SA1584-Q-TP	T.R		MAIN	ROHM
Q309	2SA1584-Q-TP	T.R		MAIN	ROHM
Q310	2SA1584-Q-TP	T.R		MAIN	ROHM
Q317	DTB123ES-TP	T.R		MAIN	ROHM
Q305	2SC2458-BL(TPE4)	AUDIO AM AMPLIFIER TR		MAIN	TOSHIBA
Q502	2SC2458-BL(TPE4)	AUDIO AM AMPLIFIER TR		MAIN	TOSHIBA
Q505	2SC2458-BL(TPE4)	AUDIO AM AMPLIFIER TR		MAIN	TOSHIBA
Q102	RN1202(TPE4)	BIAS RESISTACE TR		MAIN	TOSHIBA
Q103	RN1202(TPE4)	BIAS RESISTACE TR		MAIN	TOSHIBA
Q302	RN1202(TPE4)	BIAS RESISTACE TR		MAIN	TOSHIBA
Q303	RN1202(TPE4)	BIAS RESISTACE TR		MAIN	TOSHIBA
Q304		BIAS RESISTACE TR		MAIN	TOSHIBA
Q314		BIAS RESISTACE TR		MAIN	TOSHIBA
Q504		BIAS RESISTACE TR		MAIN	TOSHIBA
Q704		BIAS RESISTACE TR		MAIN	TOSHIBA
Q316	RN1204(TPE4)	BIAS RESISTACE TR		MAIN	TOSHIBA
D103	1SS176(TPE7)	WAVE DETECTION D.I		MAIN	TOSHIBA
D104	1SS176(TPE7)	WAVE DETECTION D.I		MAIN	TOSHIBA
D105	1SS176(TPE7)	WAVE DETECTION D.I		MAIN	TOSHIBA
D106	1SS176(TPE7)	WAVE DETECTION D.I		MAIN	TOSHIBA
D301	1SS176(TPE7)	WAVE DETECTION D.I		MAIN	TOSHIBA
D302	1SS176(TPE7)	WAVE DETECTION D.I		MAIN	TOSHIBA
D303	1SS176(TPE7)	WAVE DETECTION D.I		MAIN	TOSHIBA
D306	1SS176(TPE7)	WAVE DETECTION D.I		MAIN	TOSHIBA
D309	1SS176(TPE7)	WAVE DETECTION D.I		MAIN	TOSHIBA
D310	1SS176(TPE7)	WAVE DETECTION D.I		MAIN	TOSHIBA
D311	1SS176(TPE7)	WAVE DETECTION D.I		MAIN	TOSHIBA
D502	LTZ-MR15-TP			MAIN	ROHM
D503	LTZ-MR15-TP			MAIN	ROHM

PARTS LIST

MODEL	PDT-6000	LIST NAME		CODE	
PARTS NO		SPECIFICATION		PRICE	BRAND
34056		DIGITAL INDICATION PCB ASSY			
22153		DIGITAL INDICATION PCB			
Q-801		TRANSISTOR	2SC2458Y		TOSHIBA
Q-802		C-MOS	TC74HC02AP		TOSHIBA
Q-803		C-MOS	TC74HC04AP		TOSHIBA
Q-804		IC	NSU9202BM		JRC
Q-805		IC 3PIN REG	TA78L005AP		TOSHIBA
D-801		7 SEG LED	NSA161		STANLAY
D-802		7 SEG LED	NAA261		STANLAY
D-803		DIODE	ISS-176		TOSHIBA
D-804		DIODE	ISS-176		TOSHIBA
D-805		DIODE	ISS-176		TOSHIBA
D-810		DIODE	ISS-176		TOSHIBA
D-811		DIODE	ISS-176		TOSHIBA
D-806		REGURATOR	LTZ-MR15		RHOM
D-807		REGURATOR	LTZ-MR15		RHOM
D-808		REGURATOR	LTZ-MR15		RHOM
D-809		REGURATOR	LTZ-MR15		RHOM
D-812		REGURATOR	LTZ-MR15		RHOM
C-801		C.A	RC2-16V470M		ELNER
C-802		C.A	RC2-6V470M		ELNER
C-804		C.A	RC2-6V470M		ELNER
C-805		C.A	RC2-6V470M		ELNER
C-810		C.A	RC2-6V470M		ELNER
C-803		C.G	DD306-249F104Z25		MURATA
C-806		C.F	50SMC224J		RUBICOM
C-807		C.F	50SMC104J		RUBICOM
C-808		C.F	50SMC104J		RUBICOM
C-811		C.F	50SMC104J		RUBICOM
C-809		C.C	RPE131CH101J50		MURATA
R-801		R.D	NAS0167W103J		HDK
R-804		R.D	NAS0167W103J		HDK
R-802		R.D	NAS0167W102J		HDK
R-803		R.D	NAS0167W221J		HDK
R-817		R.D	NAS0167W221J		HDK
R-818		R.D	NAS0167W221J		HDK
R-805		R.D	NAS0167W104J		HDK
R-806		R.D	NAS0167W104J		HDK
R-807		R.D	NAS0167W104J		HDK
R-808		R.D	NAS0167W104J		HDK
R-809		R.D	NAS0167W104J		HDK
R-812		R.D	NAS0167W104J		HDK

PDT-5000
PC-MAIN
2218262

TK-T134 94V-0

B

8262-3
TK-T134 94V-0

8262-1
TK-T134 94V-0

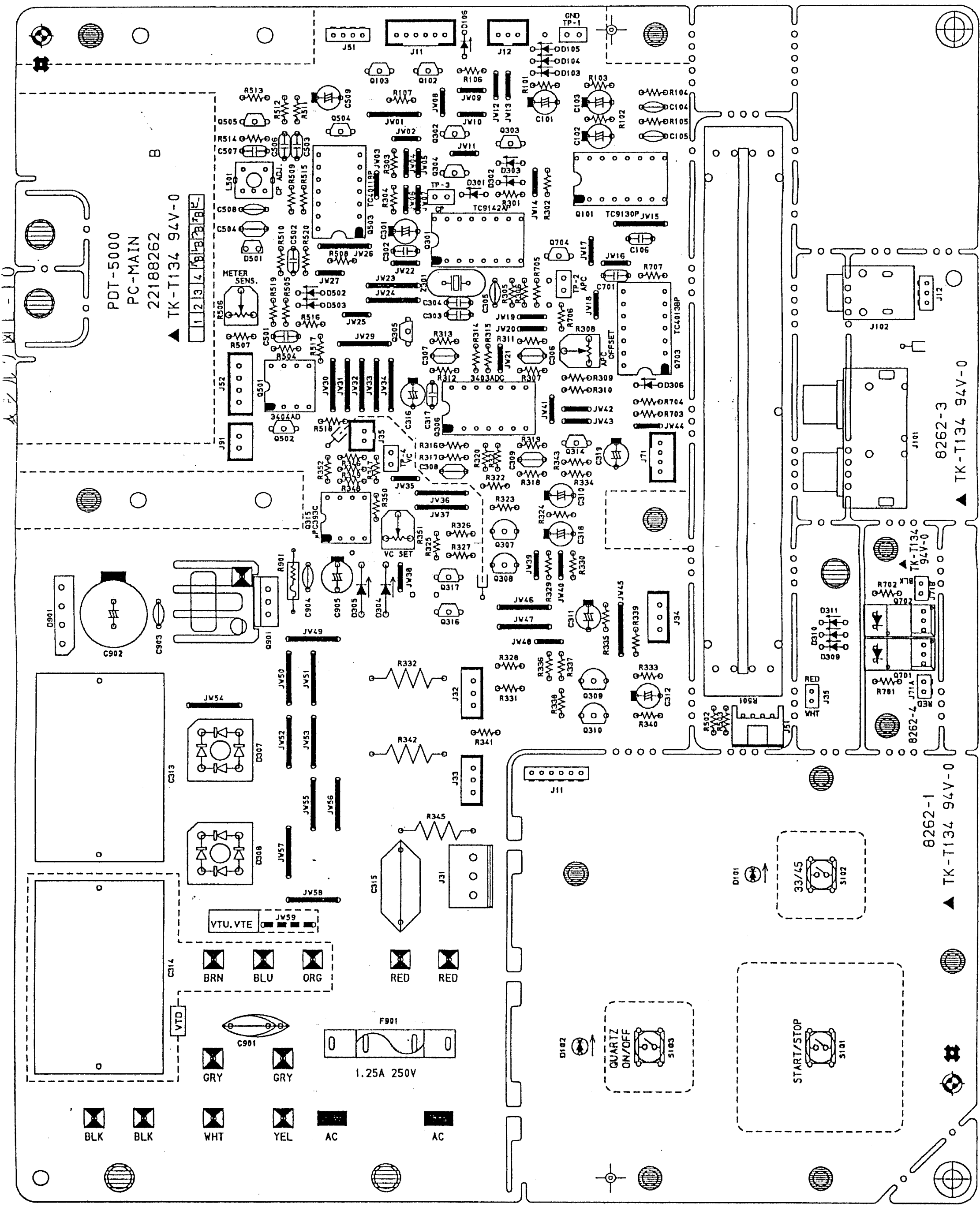
TK-T134 94V-0

8262-1

TK-T134 94V-0

TK-T134 94V-0

TK-T134 94V-0



- BLK
- BLK
- WHT
- YEL
- AC
- AC

VTU, VTE

BRN BLU ORG

VTD
C901
GRY GRY

F901
1.25A 250V

QUARTZ
ON/OFF
S103

START/STOP
S101

33/45
S102