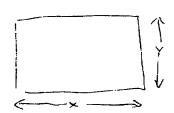
LAI SERVICE MANUAL

MONOCHROME
X-Y MONITOR

LAI-KZ-14XYB

LAI-KZ-20XYB



SPECIFICATIONS

Power Supply	3 - pin connector connection of pins 14" 0.7amp. 20" .					
	14" 0.7amp. 20" 0.9amp. average by diagonal pattern					
	5 - pin connector					
	connection of pins	Pin No.1 No connection				
		Pin No.2 ground				
		Pin No.3 ground				
		Pin No.4 ground (return)				
	,	Pin No.5 +17V ± 10%				
	14" 1.0amp. 20" 1.3amp. average by diagonal pattern					
Input Signals	6 - pin connector connection of pins X axis input	Pin No.1 & 2 (ground) ±7.5V (±5V min.)				
	Y axis input	Pin No.3 & 4 (ground) ±7.5V (±5V min.)				
	Z axis input	Pin No.5 & 6 (ground) 0 to 5V (with contrast control)				
Picture Tube	14"	20″				
Type number	340CGB4 or 340CHB4	500BRB4 or 500BMB4				
Screen size	14 inch diagonal	20 inch diagonal				
Deflection angle	90 degrees	110 degrees				
Phosphor	P4 (white)	P4 (white)				
X - Y amp. Slew Rate	2.3KHz at ±21V	2.3KHz at ±21V				
Voltage	13.0 - 14.0KV ($lk = 0$)	13.5 - 14.5KV (IK=0)				
Oscillation Frequency	15.75KHz center	15.75KHz center				
Semiconductors	IC 2	IC 2				
Julinoon laad to . o	Transistor 22	Transistor 22				
	Diode 21	Diode 21				

WARNINGS

1. POWER DOWN

REMOVE INPUT SIGNAL FROM GAME BOARD TO MONITOR BOARD BEFORE THE MONITOR IS POWER DOWN.

2. X - RADIATION

ALL CATHODE-RAY TUBES (CRT) EMIT SOME X-RAYS. THIS CHASSIS HAS BEEN DESIGNED FOR MINIMUM X-RADIATION. HOWEVER, TO AVOID POSSIBLE EXPOSURE TO SOFT X-RADIATION, ENSURE THAT HIGH VOLTAGE VALUE IS CORRECTLY SET. SHIELDING OF THIS CRT FOR X-RAY RADIATION MAY BE NEEDED TO PROTECT AGAINST POSSIBLE DANGER OF PERSONAL INJURY FROM PROLONGED EXPOSURE AT CLOSE RANGE. REPLACE WITH A TUBE OF THE SAME TYPE NUMBER FOR CONTINUED X-RADIATION PROTECTION.

3. HIGH VOLTAGE (H.V.)

THIS X-Y MONITOR CONTAINS HIGH VOLTAGES DERIVED FROM POWER SUPPLIES CAPABLE OF DELIVERING LETHAL QUANTITIES OF ENERGY. TO AVOID DANGER TO LIFE, DO NOT ATTEMPT TO SERVICE THE CHASSIS UNTIL ALL PRECAUTIONS NECESSARY FOR WORKING ON HIGH VOLTAGE EQUIPMENT HAVE BEEN OBSERVED. IN ORDER TO PREVENT DAMAGE TO SOLID STATE DEVICES, DO NOT ARC CRT ANODE LEAD TO CHASSIS OR EARTH GROUND.

4. CRT HANDLING

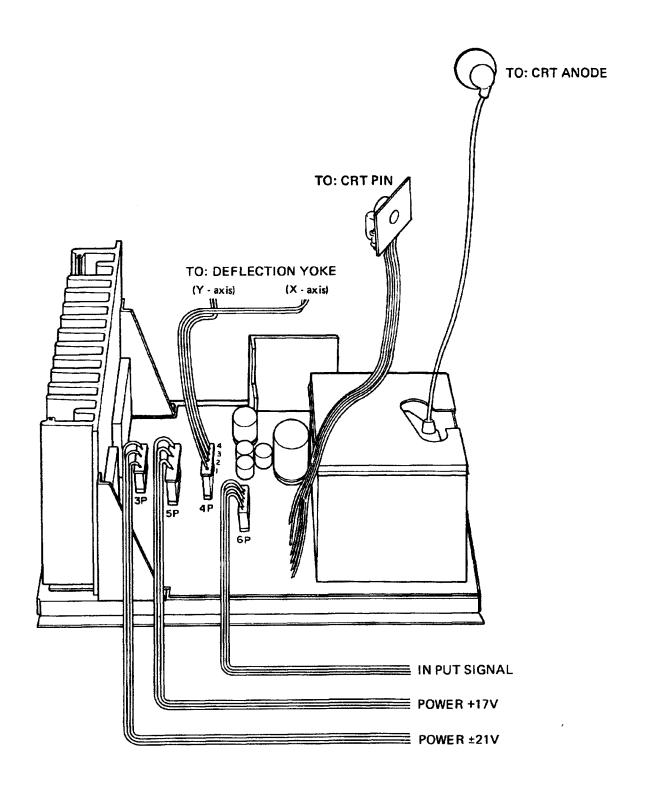
HIGH VACUUM PICTURE TUBE IS DANGEROUS TO HANDLE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. THE PICTURE TUBE ENCLOSES A HIGH VACUUM AND DUE TO THE LARGE SURFACE AREA IS SUBJECT TO EXTREME FORCE. CARE MUST BE TAKEN NOT TO BUMP OR SCRATCH THE PICTURE TUBE AS THIS MAY CAUSE THE TUBE TO IMPLODE RESULTING IN PERSONAL INJURY AND PROPERTY DAMAGE. SHATTER-PROOF GOGGLES MUST ALWAYS BE WORN BY INDIVIDUALS WHILE HANDLING THE CRT OR INSTALLING IT IN THE MONITOR. DO NOT HANDLE THE CRT BY THE NECK.

5. TO PREVENT FIRE OR SHOCK HAZARD DO NOT EXPOSE THIS MONITOR TO RAIN OR MOISTURE.

IMPORTANT NOTICE FOR SERVICE PERSONNEL BEFORE SERVICING

PLEASE READ BEFORE ATTEMPTING SERVICE

- 1. Do not discharge, arc or meter second anode lead of the picture tube and high voltage circuit for protection of transistors in the monitor. Disconnect the lead and discharge the CRT anode to the CRT conductive coating only.
- 2. While the monitor is in operation, do not attempt to connect or disconnect any wires.
- 3. Make sure the power cord is disconnected before replacing any parts in the monitor.
- 4. When the power is on, do not attempt to short any portion of the circuit. This shorting may cause damage to the transistors in the receiver.
- 5. When servicing the H.V. area, make certain that the CRT anode is safely discharged to ground before removing the anode cap.
- 6. Caution must be exercised when servicing this monitor. The regulator has no current limiting and even a momentary short of output voltage could cause destruction of the pass transistors.
- 7. A spot killer circuit is used to blank the CRT under a no signal condition. When the spot killer is active, the CRT will be extinguished.



X - Y DISPLAY ADJUSTMENT

PRELIMINARY

1. Signal

Test Pattern of X, Y, Z and Game Signal

- 2. Chassis Condition
 - (1) Each VR should be positioned to "center". (VR201, VR202, VR501, VR601, and VR701)
 - (2) The core of L801 (Horizontal Oscillation Coil) should be pulled out.
- 3. Power Supply

Connect the following voltages to the positions indicated on the circuit diagram.

DC +21V to the first terminal of 3P Mini Pin

DC -21V to the third terminal of 3P Mini Pin

DC +17V to the fifth terminal of 5P Mini Pin

ADJUSTMENT

Perform the adjustments in the following order.

1. +B Adjustment

Adjust the emitter of Q703 or the terminal output of J702 (Jumper Lead) to 11.5V $\pm 0.2V$ with VR701 (Volume for B-Adj.).

2. High Voltage (H.V.) Adjustment

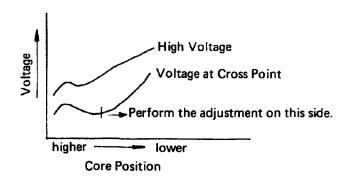
Adjust the cross points of Resistors R807 and R808 to 245 ±2V with L801.

Confirm that H.V. is in the following range.

$$14'' \dots 13.0 - 14.0$$
KV ($1\kappa = 0$)

Note:

The right drawing shows the voltage variation according to the core positions of L801. Perform the adjustment checking H.V.



- 3. Brightness and Contrast (Game Signal) Adjustment
 - (1) Make the picture appear with VR202 (Bright Volume) and perform the rough adjustment to the point where spots disappear.
 - (2) Perform the adjustment by turning VR201 (Contrast Volume) to the brightest point where no blooming appears.
 - (3) Re-adjust VR202 to the point where spots disappear.
 - (4) These controls are preset at the factory, but may be adjusted to suit program material. They are located near H.V. output transformar (See Figure 1)

- 4. Image Adjustment (Test Pattern Signal)
 - (1) DY Fixation

Fix DY after horizontal positioning.

(2) Centering Adjustment

Adjust the test pattern to the center.

(3) Magnet Adjustment (only 20")

Correct the vertical distortion with the right and left magnets.

5. X - Y Gain Adjustment (Test Pattern Signal)

The unit is factory adjusted to the following values. However, re-adjust the unit until the optimum value is obtained.

- (1) Adjust VR501 (X-GAIN) until the following value is obtained for the horizontal amplitude.
- (2) Adjust VR601 (Y-GAIN) until the following value is obtained for the vertical amplitude.

Horizontal Amplitude 20" 350 ± 10mm

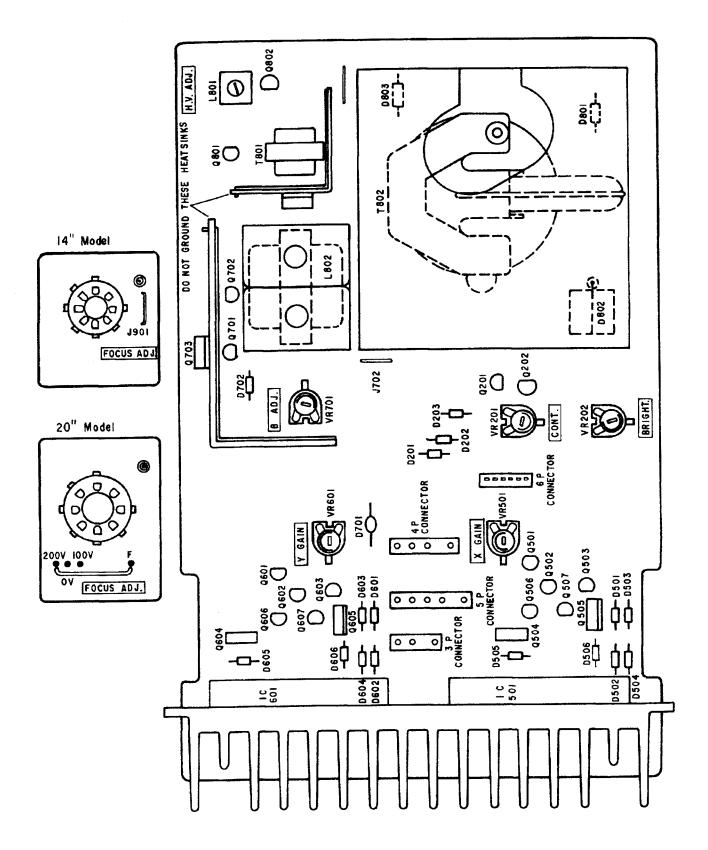
14" 250 ± 10mm

Vertical Amplitude 20" 250 ±10mm

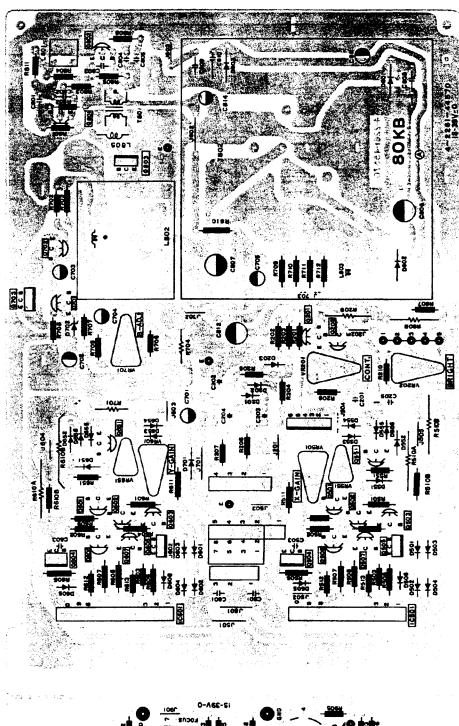
14" 190 ±10mm

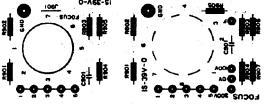
6. Focus Adjustment

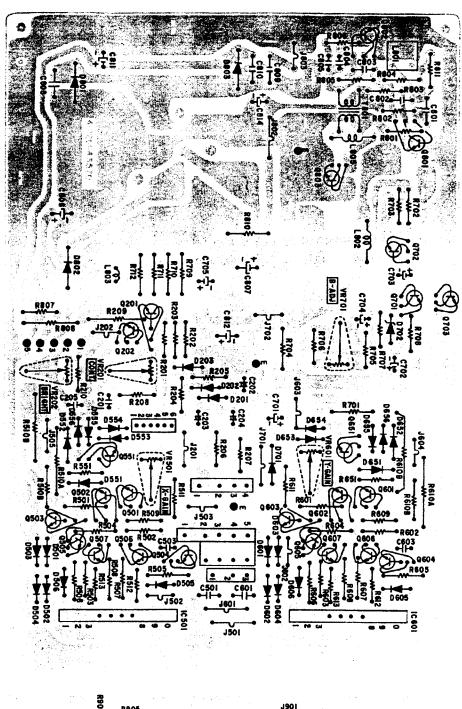
- 20"... Focus adjustment terminals are located near CRT socket. Connect the white lead from point F to one of three terminals (0, 100, 200V) for the best focus.
- 14"... Focus adjustment jumper wire is located near picture tube socket. If focus is inadequate clip the jumper wire (J901).

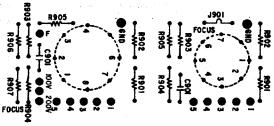


CIRCUIT BOARD DIAGRAM (Parts side)

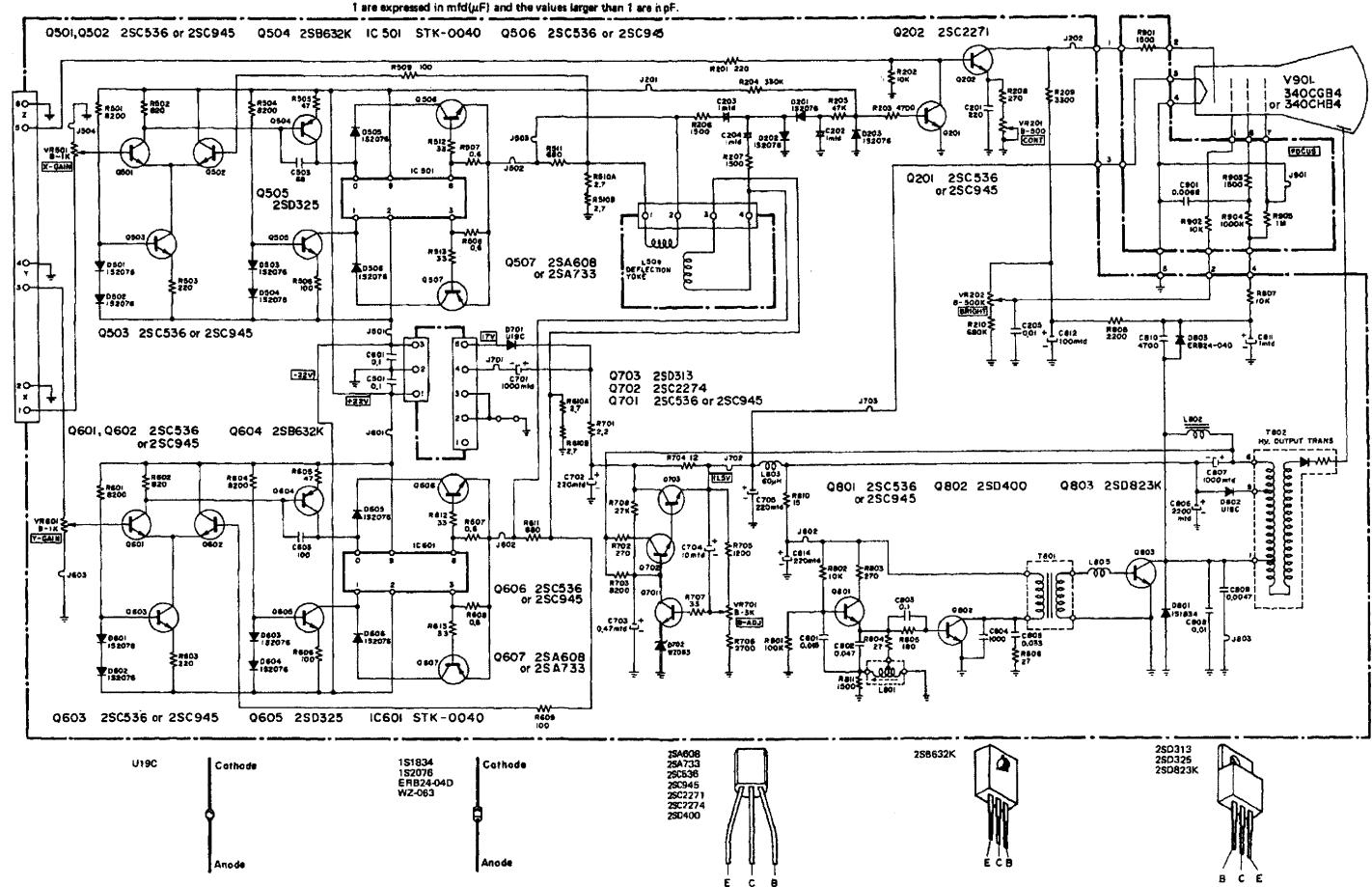






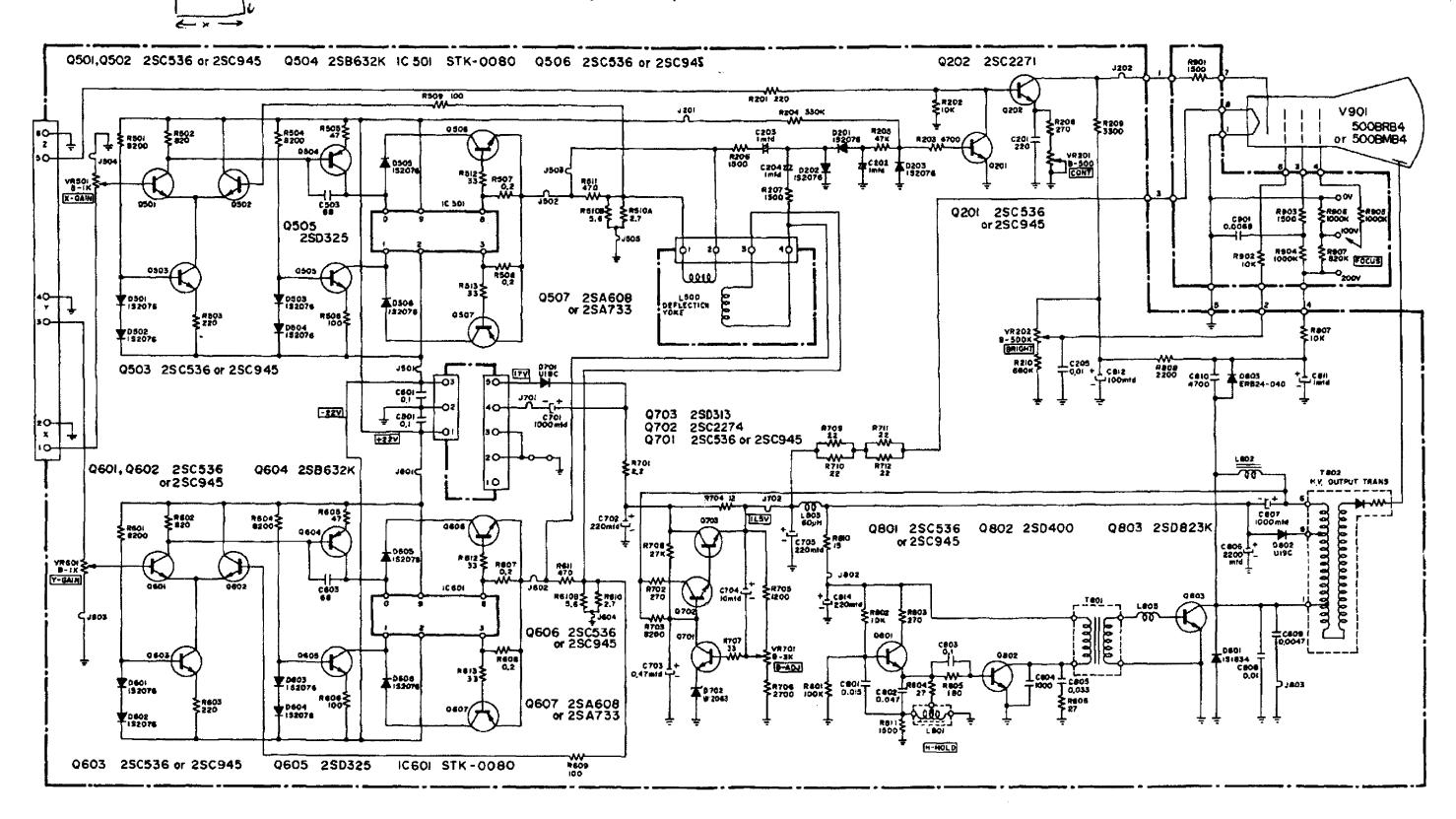


- 1. All resistance values are in ohm. K = 1,000 M = 1,000,000
- 2. Unless otherwise noted in schematic diagram, all capacitorsless than
- 3. This is a fundamental circuit diagram. Some production changes may be made without revision of the diagram.



SCHEMATIC DIAGRAM (model LAI-KZ-20XYB)

- 1. All resistance values are in ohm, K = 1,000 M = 1,000,000
- Unless otherwise noted in schematic diagram, all capacitors less that
 1 are expressed in mfd(μF) and the values larger than 1 are in pF.
- This is a fundamental circuit diagram. Some production changes may be made without revision of the diagram.



PARTS LIST

Model LAI-KZ-14XYB

Model LAI-KZ-20XYB

Location	Parts No.	Description	Q'ty	Schematic Location	Parts No.	Description	Q'ty
CHASSIS	PARTS			CHASSIS	PARTS		
	11 2 3121 19370	CHASSIS FRAME-MCH	1		111 2 3121 19370	CHASSIS FRAME-MCH	1
	11 2 3391 12770	RADIATOR BRKT-TJJ	1		111 2 3391 12770	RADIATOR BRKT-TJJ	1
1	11 2 3391 13370	CHAS MTG BRKT-MCH	2		111 2 3391 13370	CHAS MTG BRKT-MCH	2
	11 2 6111 29470	FBT SHIELD CASE-MCH	1		111 2 6111 29470	FBT SHIELD CASE-MCH	1
	11 2 6111 29570	FBT SHIELD COVER-MCH	1		111 2 6111 29570	FBT SHIELD COVER-MCH	1
	11 2 6111 29670	DY SHIELD CASE-MCH	1		111 2 6111 29670	DY SHIELD CASE-MCH	1
	11 2 6211 22570 11 2 6211 23870	RADIATOR PLATE-TJJ HOR RAD PLATE-TMH	1		111 2 6211 22570 111 2 6211 23870	RADIATOR PLATE-TJJ HOR RAD PLATE-TMH	1
	11 2 6211 23870 11 2 6211 24070	DI RAD PLATE-TMH-B	i		111 2 6211 24070	DI RAD PLATE-TMH-B	i
	11 2 5211 24470	SOUND RAD PLATE-TMH	i		111 2 6211 24470	SOUND RAD PLATE-THH	i
	11 2 6211 25670	IC RADIATOR-MCJ	1		111 2 6211 25470	IC RADIATOR-MCH	1
SCREWS-					CHASSIS		
	02 3 2203 00802	SBT . 3. 0X 8. Z1	14		102 3 2203 00802	SBT . 3. 0X 8. Z1	14
1	02 3 2203 01602	SBT , 3. 0X 16, Z1	4		102 3 2203 01602	SBT , 3. 0X 16, Z1	4
FLECTRE	CAL PARTS			ELECTRI	ICAL PARTS		
L500	4 2761 51970	DEFLECTION YOKE	1	L500	4 2761 51870	DEFLECTION YOKE	1
L801	4 2731 06170	HORIZ OSC COIL	i	or	4 2761 51878	DEFLECTION YOKE	1
L802	4 2731 06570	HORIZ CHOKE	1	L801	4 2731 06170	HORIZ OSC COIL	1
L803	4 2530 03600	HORIZ FILTER CHOKE	1	L802	4 2731 06470	HORIZ CHOKE	1
L805	4 2531 09870	FILTER COIL	1	L803	4 2530 03600	HORIZ FILTER CHOKE	1
T801	4 2731 05970	HOR DRIVE TRANS	1	L805	4 2531 09870	FILTER COIL	1
T802	4 2751 50609	FLYBACK TRANS	1	T801 T802	4 2731 05970 4 2751 50609	HOR DRIVE TRANS FLYBACK TRANS	1 1
SMALL P	ARTC			SMALL F		TETORION THANKS	•
SWALL F	4 2261 45570	PC BOARD BOKB	1	SWITT	4 2261 45570	PC BOARD BOKB	1
	4 2351 05470	CRT SOCKET	i		4 2351 05670	CRT SOCKET	i
	4 2360 04300	GT PIN	Ì		4 2360 04300	GT PIN	í
	4 2361 07270	3P MINI PIN	1		4 2361 07270	3P MINI PIN	i
	4 2361 07370	4P MINI PIN	1		4 2361 07370	4P MINI PIN	1
	4 2361 07470	SP MINI PIN	1		4 2361 07470	5P MINI PIN	1
	4 2361 13471	6P MICRO PLUG	1		4 2361 13471	6P MICRO PLUG	1
	11 0 9011 14670	GROUNDING CONNECTOR	1		111 0 9011 14570	GROUNDING CONNECTOR	1
	11 0 9081 03046	3P MINI SOCKET ASSY	1		111 0 9081 03046	3P MINI SOCKET ASSY	1
	11 0 9081 04031	4P MINI SOCKET ASSY	1		111 0 9081 04031	4P MINI SOCKET ASSY	1
	11 0 9081 05014 11 0 9081 06010	5P MINI SOCKET ASSY 6P MICRO SOCKET ASSY	1		111 0 9081 05014 111 0 9081 06010	5P MINI SOCKET ASSY 6P MICRO SOCKET ASSY	1
	E RESISTORS	or miono booker hour	•		E RESISTORS	OF INTONO SOCKET ASST	•
VANTABLI VR201	4 2221 31370	10L2FRB-500	1	VANTABL VR201	4 2221 31370	10L2FRB-500	1
VN201	4 2221 38770	10L2FRB-500K	i	01,201	4 2221 38770	10L2FRB-500K	i
VR501	4 2220 30271	10L2FR B-1K	1	VR501	4 2220 30271	10L2FR B-1K	i
VR601	4 2220 30271	10L2FR B-1K	1	VR601	4 2220 30271	10L2FR B-1K	1
VR701	4 2221 07570	10L2FRB-3K	1	VR701	4 2221 07570	10L2FRB-3K	1
CAPACIT	ORS			CAPACIT	TORS		
C201 C	1HYDK221W	CERAMIC 220P W 50V	1	C201	C 1HYDKZZ IW	CERAMIC 220P W 50V	1
	2CAEN105A	ELECT IM 160V	1		C2CAEN105A	ELECT 1M 160V	1
	2CAEN105A	ELECT IM 160V	1		C2CAEN105A	ELECT IM 160V	1
	2CAEN105A	ELECT IM 160V	1		C2CAEN105A	ELECT 1M 160V	1
	2HYDP103Z	CERAMIC D. DIM Z 500V	!		C2HYDP103Z	CERAMIC 0.01M Z 500V	1
	1HFRK104A	MYLAR C. 1M 50V	1		C1HFRK104A	MYLAR O. 1M 50V	1
	1HCDK6805L- 1HFRK104A	CERAMIC 68P SL 50V MYLAR O. 1M 50V	1		C1HCDK680SL-	CERAMIC 68P SL 50V	1
	1HCDK680SL-	CERAMIC SEP SE SOV	1		C1HFRK104A C1HCDK680SL-	MYLAR O. 1M 50V CERAMIC 68P SL 50V	1
0000	1VRE-108A	ELECT 1000M 35V	i		C1VRE-108A	ELECT 1000M 35V	i
	1VRE-227A	ELECT 220M 35V	i		C1VRE-227A	ELECT 220M 35V	i
	1HRE-474A	ELECT 0.47M 50V	1		C1HRE-474A	ELECT 0. 47M 50V	1
C704 C	1CRE - 106A	ELECT 10M 16V	1		C1CRE-106A-~	ELECT 10M 16V	1
C705 C	1CRE-227A	ELECT 220M 16V	1	C705	C1CRE-227A	ELECT 220M 16V	1
	2DQRK153A	POLYPR 0.015M 200V	1		C2DQRK153A	POLYPR 0.015M 200V	1
	1HFRK473A	MYLAR 0.047M 50V	1		C1HFRK473A	MYLAR 0.047M 50V	1
	1HFRK104A	MYLAR O. 1M 50V	1		C1HFRK104A	MYLAR O. IM 50V	1
	2HYDK102W	CERAMIC 1000P W 500V	1		C2HYDK102W	CERAMIC 1000P W 500V	
	1HFRK333A	MYLAR 0.033M 50V	1		C1HFRK333A	MYLAR 0. 033M 50V	1
	1CRE-228A 1ERE-108A	ELECT 2200M 16V ELECT 1000M 25V	1		C1CRE~22BA~~ C1ERE-10BA~~	ELECT 2200M 16V ELECT 1000M 25V	1
	2GQRK103A	POLYPR O. OIM 400V	1		C2GQRK103A-~	POLYPR 0.01M 400V	1
	2GQRK472A	POLYPR 0.0047M 400V	i		C2GQRK472A	POLYPR 0.0047M 400V	i
C809 C							,
	2HYDK472W	CERAMIC 4700P W 500V	1	C810 H	C2HYDK472W-~	CERAMIC 4700P W 500V	1
C810 C	2HYDK472W 2FRE-105A	CERAMIC 4700P W 500V ELECT 1M 315V	1		C2HYDK472W-~ C2FRE-105A-~	CERAMIC 4700P W 500V ELECT 1M 315V	1
C810 C				C811			

- Parts orders must contain Model Number, Parts Number and Description.
 Ordering quantity of resistors, capacitors and screws must be multiple of 10 pcs.

PARTS LIST

Model LAI-KZ-14XYB

Model LAI-KZ-20XYB

Schematic Location	Parts No.	Description	Q'ty	Schematic Location	Parts No.	Description	Q'ty
C901	C2JQRK682A	POLYPR 0.0068M 630V	1	C901	C2JQRK682A	POLYPR 0.0068M 630V	1
FIXED	RESISTORS			FIXED	RESISTORS		
R201	R2ESPJ221A	CARBON 220 1/4WJ	1	R201	R2ESPJ221A	CARBON 220 1/4WJ	1
R202	R2ESPJ103A	CARBON 10K 1/4WJ	1	R202	R2ESPJ103A	CARBON 10K 1/4WJ	1
R203	R2ESPJ472A	CARBON 4.7K 1/4WJ	1	R203	R2ESPJ472A	CARBON 4.7K 1/4WJ	1
R204	R2ESPJ334A	CARBON 330K 1/4WJ	1	R204	R2ESPJ334A	CARBON 330K 1/4WJ	1
R205	R2ESPJ473A	CARBON 47K 1/4WJ CARBON 1.5K 1/4WJ	1	R205 R206	R2ESPJ473A R2ESPJ152A	CARBON 47K 1/4WJ CARBON 1.5K 1/4WJ	1
9206 9207	RZESPJ152A RZESPJ152A	CARBON 1. 5K 1/4WJ	i	R207	R2ESPJ152A	CARBON 1.5K 1/4WJ	i
R207 R208	RZESPJ271A	CARBON 270 1/4WJ	1	R208	R2ESPJ271A	CARBON 270 1/4WJ	i
R209	R3DXPK332A	OXIDE-M 3. 3K 2WK	1	R209	R3DXPK332A	OXIDE-M 3.3K 2WK	1
R210	R2ESPJ684A	CARBON 680K 1/4WJ	1	R210	R2ESPJ684A	CARBON 6BOK 1/4WJ	1
R501	R2HCPK822A	SOLID 8.2K 1/2WK	1	R501	R2HCPK822A	SOLID 8.2K 1/2WK	1
R502	R2ESPJ821A	CARBON 820 1/4WJ	1	R502	R2ESPJ821A	CARBON 820 1/4WJ	1
R503	R2ESPJ221A	CARBON 220 1/4WJ	1	R503	R2ESPJ221A	CARBON 220 1/4WJ	1
R504	R2HCPK822A	SOLID 8.2K 1/2WK	1	R504	R2HCPK822A	SOLID 8.2K 1/2WK	1
R505	R2HCPK470A	SOLID 47 1/2WK	1	R505 R506	R2HCPK470A R2HCPK101A	SOLID 47 1/2WK SOLIDE 100 1/2WK	1
R506	R2HCPK101A	SOLIDE 100 1/2WK OXIDE-M 0.6 1WJ	i	R507	R3APPKR20A	OXIDE-M 0. 2 1WK	i
R507 R508	R3APPJOR6A R3APPJOR6A	OXIDE-M 0.6 1WJ	1	R508	R3APPKR20A	OXIDE-M 0. 2 1WK	i
R509	R2ESPJ101A	CARBON 100 1/4WJ	i	R509	R2ESPJ101A	CARBON 100 1/4WJ	i
	R3WPPK2R7A	OXIDE-M 2.7 3WK	1	R510	R3WPPK2R7A	OXIDE-M 2.7 3WK	1
R510B		OX I DE-M 2. 7 3WK	1	R5108	R2HCPK5R6A	SOLID 5.6 1/2WK	1
R511	R2HCPK681A	SOLID 680 1/2WK	1	R511	R2HCPK471A	SOLID 470 1/2WK	1
R512	R2ESPJ330A	CARBON 33 1/4WJ	1	R512	R2ESPJ330A	CARBON 33 1/4WJ	1
R513	R2ESPJ330A	CARBON 33 1/4WJ	1	R513	R2ESPJ330A	CARBON 33 1/4WJ SOLID 8.2K 1/2WK	1
R601	R2HCPK822A	SOLID B. 2K 1/2WK	,	R601 R602	R2HCPK822A R2ESPJ821A	SOLID 8.2K 1/2WK CARBON 820 1/4WJ	1
R602	R2ESPJ821A	CARBON 820 1/4WJ CARBON 220 1/4WJ	i	R603	R2ESPJ221A	CARBON 220 1/4WJ	i
R603 R604	R2ESPJ221A R2HCPK822A	SOLID B. 2K 1/2WK	i	R604	R2HCPK822A	SOLID 8. 2K 1/2WK	1
R605	R2HCPK470A	SOLID 47 1/2WK	1	R605	R2HCPK470A	SOLID 47 1/2WK	1
R606	R2HCPK101A	SOLIDE 100 1/2WK	1	R606	R2HCPK101A	SOLIDE 100 1/2WK	1
R607	R3APPJOR6A	OXIDE-M 0.6 1WJ	1	R607	R3APPKR20A	OXIDE-M 0.2 1WK	1
R608	R3APPJOR6A	OXIDE-M 0.6 1WJ	1	R608	R3APPKR20A	OXIDE-M 0.2 1WK	1
R609	R2ESPJ101A	CARBON 100 1/4WJ	1	R609	R2ESPJ101A	CARBON 100 1/4WJ	1
	R3WPPK2R7A	OX 1 DE -M 2. 7 3WK	1	R610	R3WPPK2R7A	OXIDE-M 2.7 3WK SOLID 5.6 1/2WK	1
R610B		OXIDE-M 2.7 3WK SOLID 680 1/2WK	1	R611	R2HCPK5R6A R2HCPK471A	SOLID 470 1/2WK	i
R611	R2HCPK681A R2ESPJ330A	CARBON 33 1/4WJ	ì	R612	R2ESPJ330A	CARBON 33 1/4WJ	i
R612 R613	RZESPJ330A	CARBON 33 1/4WJ	i	R613	R2ESPJ330A	CARBON 33 1/4WJ	1
R701	R3HWYJ2R2A	WIRE-W 2. 2 5WJ	1	R701	R3HWYJ2R2A	WIRE-W 2. 2 5WJ	1
R702	R2ESPJ271A	CARBON 270 1/4WJ	1	R702	R2ESPJ271A	CARBON 270 1/4WJ	1
R703	R2HCPK822A	SOLID 8.2K 1/2WK	1	R703	R2HCPK822A	SOLID 8.2K 1/2WK	1
R704	R3HWYK120A	WIRE-W 12 5WK	1	R704	R3HWYK120A	WIRE-W 12 5WK	1
8705	R2ESPJ122A	CARBON 1.2K 1/4WJ	!	R705	R2ESPJ122A	CARBON 1.2K 1/4WJ CARBON 2.7K 1/4WJ	1
R706	R2ESPJ272A	CARBON 2.7K 1/4WJ	1	R706 R707	R2ESPJ272A R2ESPJ330A	CARBON 33 1/4WJ	i
R707	R2ESPJ330A	CARBON 33 1/4WJ CARBON 27K 1/4WJ	! 1	R708	R2ESPJ273A	CARBON 27K 1/4WJ	i
R708 R801	R2ESPJ273A R2ESPJ104A	CARBON 100K 1/4WJ	i	R709	R2HCPK220A	SOL 1D 22 1/2WK	1
R802	R2ESPJ103A	CARBON 10K 1/4WJ	i	R710	R2HCPK220A	SOLID 22 1/2WK	1
R803	R2ESPJ271A	CARBON 270 1/4WJ	i	8711	R2HCPK220A	SOLID 22 1/2WK	1
R804	R2ESPJ270A	CARBON 27 1/4WJ	i	R712	R2HCPK220A	SOLID 22 1/2WK	1
R805	R2ESPJ181A	CARBON 180 1/4WJ	1	R801	R2ESPJ104A	CARBON 100K 1/4WJ	1
R806	R2ESPJ270A	CARBON 27 1/4WJ	1	R802	R2ESPJ103A	CARBON 10K 1/4WJ	1
R807	R2ESPJ103A	CARBON 10K 1/4WJ	1	R803	R2ESPJ271A	CARBON 270 1/4WJ	1
R808	R3DXPJ222A	OXIDE-M 2.2K 2WJ	1	R804 R805	R2ESPJ270A R2ESPJ181A	CARBON 27 1/4WJ CARBON 180 1/4WJ	i
	R3DXPJ150A	CARBON 1.5K 1/4WJ	;		RZESPJ270A	CARBON 27 1/4WJ	i
R811	R2ESPJ152A	CARBON 1.5K 1/4WJ	i	R807		CARBON TOK 1/4WJ	i
R901 R902	R2ESPJ152A R2ESPJ103A	CARBON 10K 1/4WJ	i		R3DXPJ222A	OXIDE-M 2. 2K 2WJ	1
R903		CARBON 1.5K 1/4WJ	i	R810		OXIDE-M 15 2WJ	1
R904		CARBON 1M 1/4WJ	1	R811	R2ESPJ152A	CARBON 1.5K 1/4WJ	1
R905		CARBON 1M 1/4WJ	1	R901	R2ESPJ152A	CARBON 1.5K 1/4WJ	1
-				R902		CARBON 10K 1/4WJ	1
				R903		CARBON 1.5K 1/4WJ	1
				R904		CARBON 1M 1/4WJ CARBON 1M 1/4WJ	i
				R905 R906	R2ESPJ105A R2ESPJ105A	CARBON IM 1/4WJ	
				R907		CARBON 820K 1/4WJ	Ì
TUBES	AND SEMICO	ONDUCTORS		TUBES	AND SEMICON	DUCTORS	
D201		07470 SI DIODE 182076	1	D201		470 SI DIODE 192076	1
D202	4 2021 (07470 SI DIODE 182076	1	D202		470 SI DIODE 152076	1
0203		07470 SI DIODE 152076	1	0203		470 SI DIODE 152076	1
D501	4 2021	07470 SI DIODE 152076	1	D501	4 2021 07	470 SI DIODE 152076	1

- Parts orders must contain Model Number, Parts Number and Description.
 Ordering quantity of resistors, capacitors and screws must be multiple of 10 pcs.

PARTS LIST

Model LAI-KZ-14XYB

Model LAI-KZ-20XYB

Schematic Location	Parts No.	Description	Q'ty	Schematic Location	Parts No.	Description	Q'ty
D502	4 2021 07470	SI DIODE 152076	1	D502	4 2021 07470	SI DIODE 152076	1
D503	4 2021 07470	SI DIODE 152076	1	D503	4 2021 07470	SI DIODE 152076	1
D504	4 2021 07470	SI DIODE 152076	1	D504	4 2021 07470	SI DIODE 152076	1
D505	4 2021 07470	SI DIODE 152076	1	D505	4 2021 07470	SI DIODE 1S2076	1
D506	4 2021 07470	SI DIODE 152076	1	D506	4 2021 07470	S1 D100E 1S2076	1
0501	4 2021 07470	SI DIODE 152076	1	D601	4.2021 07470	SI D100E 1S2076	1
D602	4 2021 07470	SI DIODE 1S2076	1	D602	4 2021 07470	SI DIODE 1S2076	1
D603	4 2021 07470	\$1 DIODE 152076	3	D603	4 2021 07470	SI DIODE 152076	1
D604	4 2021 07470	SI DIODE 182076	1	D604	4 2021 07470	SI DIODE 1S2076	1
D605	4 2021 07470	S1 D10DE 1\$2076	1	D605	4 2021 07470	SI DIODE 152076	1
D606	4 2021 07470	SI DIODE 1S2076	1	D606	4 2021 07470	SI DIODE 152076	1
D701	4 2021 19470	SI DIODE U19C	1	0701	4 2021 19470	SI DIODE U19C	1
0702	4 2021 14870	ZE DIODE WZ-063	1	0702	4 2021 14870	ZE DIODE WZ-063	1
D801	4 2021 09670	SI DIODE 1S1834	1	D801	4 2021 09670	SI DIODE 151834	1
D802	4 2021 19470	SI DIODE U19C	1	D802	4 2021 19470	SI DIODE U19C	1
D803	4 2021 10270	SI DIODE ERB24-040	1	0803	4 2021 10270	SI DIODE ERB24-04D	1
10501	4 2061 10370	IC-STK0040	1	IC501	4 2061 10270	IC-STK0080	1
10601	4 2061 10370	IC-STK0040	1	IC601	4 2061 10270	IC-STK0080	1
0201	TG2SC536	SI TR 25C536	1	Q201	TG2SC536	SI TR 25C536	1
01	TN2SC945	SI TR 25C945	1		TN2SC945	SI TR 250945	1
0202	TG2SC2271	SI TR 2502271	1		TG2SC2271	SI TR 25C2271	1
0501	TG2SC536F	S1 TR 25C536	1		TG2SC536F	S1 TR 250536	1
10	TN2SC945Q	SI TR 2SC945	1		TN2SC945Q	SI TR 25C945	1
0502	TG2SC536F	SI TR 2SC536	1	Q502	TG2SC536F	SI TR 25C536	1
10	TN2SC945Q	SI TR 25C945	1	. .	TN2SC945Q	SI TR 25C945	1
0503	TG2SC536F	SI TR 250536	1	Q503	TG2SC536F	SI TR 250536	1
or	TN25C945Q	SI TR 2SC945	1		TN2SC945Q	SI TR 25C945	1
Q504	TG2SB632K-F	SI TR 2SB632K	1	Q504	TG2S8632K-F	\$1 TR 258632K	1