# **AUDIOACCESS**

# **PX-612**

# **MULTI-ROOM AMPLIFIER**

# PRELIMINARY SERVICE MANUAL



Harman Consumer Group 250 Crossways Park Dr. Woodbury, New York 11797



#### **PX-612 PRODUCT DESCRIPTION**

The Audioaccess PX-612 multi-room amplifier has been designed to meet the specialized requirements of a total home/multi-room environment. Unlike conventional audio amplifier designs, multi-room amplifiers must reject interference from power circuits, lighting, RF, and even other audio/video system components. The PX-612 6 zone/12 channel, bridgeable amplifier readily meets these challenges while delivering a level of audio performance that rivals far more esoteric amplifier designs. To ensure reliability, each of the twelve identical audio channels is manufactured using discrete transistor driver and output stages. A built-in pass through connection and its channel bridging capabilities further enhances PX-612 flexibility. The PX-612 has been thermally and mechanically engineered to allow simultaneous operation of all twelve channels into four-ohm loads without compromising sonic performance.

The PX-612 is silent in operation. Crosstalk between channels is reduced to completely inaudible levels. The sophistication of the PX-612 power supply and muting circuit assures freedom from audible ticks and pops. Signal sensing relays on the speaker outputs mute the signal when a zone is not in use.

PX-612 turn on and off is automatic. Built-in signal sensing provides unattended, transparent system operation. A built-in pass thru connection and channel bridging capabilities further enhances PX-612 flexibility. The PX-612 is housed in a compact 4" high chassis that matches the Audioaccess PX-600 Multi-Room Preamp/Controller. Each PX-612 is supplied with a speaker harness and an external termination board that allows hookup of the speakers at the pre-wire stage of installation. RCA-type audio input jacks accept signals from the matching PX-600 or any other high quality audio source.

PX-612 features, performance and reliability make it the perfect amplifier choice for a wide range of home theater and multi-room applications.

#### **FEATURES**

	Pass-thru inputs for easy daisy-chaining to additional channels and/or PX-612s
	Hybrid design with rugged, discrete driver and output stages
	Reliable operation with over-current, short-circuit, thermal, and DC protection automatic resetting)
	Quiet, convection cooling (when properly installed according to factory recommendations)
	24-conductor wiring harness connections output to Speaker Termination Board (allows for early construction speaker pre-wire)
	RF filtering on audio inputs
	Tri-color LED status indicator on front panel illuminates Orange for standby, GREEN for normal operation and RED for DC and/or thermal protection (trouble).
	AC mains input is fused and EMI filtered
п	AC majors switch on back panel

Six stereo zones, twelve channels (six channels bridged via switches)

#### INSTALLATION

#### Audio Inputs/Outputs:

Each pair of channels has two sets of RCA connectors. (2-right, 2-left). These are labeled Zones 1 thru 12 on the back panel. The input source are plugged into either set of jacks, making the other set an output. If needed, this output can be connected to another set or zone of channels within the PX-612 or to separate PX-612 or other type of amplifier. To connect the RCA output to another set of channels within the PX-612, plug the input source into the left set of inputs for a zone, then jump the right set of inputs to the next zone with a 14mm jumper (available at electronics supply outlets) or simply use a short RCA cable. To connect to another amplifier, use an RCA cable of appropriate length.

#### **Speaker Outputs:**

The PX-612 uses an outboard Speaker Terminator Board and a 48" long, 24-conductor speaker harness supplied with the unit. Plug the harness into the back of the amplifier then into the speaker terminator board. Connect the wiring from all the speakers to the screw terminals on the Speaker Terminator Board.

Do not strip more than 3/8" of insulation from the speaker wire. Excess bare wire can lead to shorting problems. Twist wire ends carefully and make sure all strands are under the square clamp pad.

#### **Bridged Mode Speaker Outputs:**

In bridged mode, amplifier channels normally used for left and right sides are combined to form one channel (left or right). Therefore, when using bridged mode, connect input signals only to the *left* RCA input jack. For example, use the left channel of the set of inputs marked "Zone 1" for the left channel and the left channel of the set of inputs marked "Zone 2" for the right channel. Be sure to set the bridging switch for that zone to the "bridged mode" position (to the left).

Connect your speaker's positive (+) lead to the right positive (+) on Speaker Terminator Board.

Connect your speaker's negative (-) lead to the left positive (+) on Speaker Terminator Board.

#### Power switch

The main power switch is on the rear panel next to the IEC jack for the AC power cord. Turn the power on (up). When the main power is turned on, the LED on the front panel should be orange indicating a "standby" condition.



## PX-612 SERVICE DOCUMENTATION

### **SPECIFICATIONS**

Number of channels:	Twelve Un-bridged (six stere	eo pairs); six bridged (three stereo pairs)	
D		50 watts @ 8 ohms	
Power Output Per Channel:	Two channels driven	65 watts @ 4 ohms	
Un-bridged		30 watts @ 8 ohms	
From 20Hz-20kHz	All channels driven	40 watts @ 4 ohms	
Power Output Per Channel:	Two channels driven	400 # 000	
Bridged		130 watts @ 8 ohms	
From 20Hz-20kHz	All channels driven	80 watts @ 8 ohms	
Minimum Speaker Impedance:	Un-bridged:	4 $\Omega$ min	
Per Channel	Bridged:	8 $\Omega$ min	
THD & Noise:	0.1% or less, at rated power, 20Hz-20kHz		
Frequency Response:	20Hz-20kHz, +0/-0.2dB, at rated power		
Signal/Noise:	100 dB (ref: Rated Power), measured with amplifier operating unbridged into 8 ohm loads.		
Muting:	Turn on, Turn off and Signal Sensing (each stereo pair output mutes with no input signal)		
Slew Rate:	35 volts/microsecond		
Damping Factor:	Over 200		
Input Impedance:	10K Ohm		
Input Sensitivity:	1 volt for rated output		
Fuses:			
Dimensions:	17 3/8" W x 4" H x 15" D (442 mm x 102 mm x 381 mm) Includes connectors and feet		
Weight:	lbs (kg)		



DOC. NUMBER CUSTOMER PRODUCT STOCK NUMBER

AA420-0000-0 AUDIO ACCESS

PX612

DATE REVISION AA3G2-0000-D

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- 6) BRIDGE TEST
  - A SET GT. LOAD BOX OPEN.
  - B | CONNECT X10 PROBES FROM SCOPE CHANNELS "A" AND "B" TO L113A AND L92A.
  - CONNECT 1700B OUTPUT TO CH-1L INPUT. SET 'ZONE 1' BRIDGE SWITCH TO BRIDGE MODE.
  - D ADJUST VERNIER FOR 15VRMS, COMPARE TO PHOTO "F". OUTPUTS SHOULD BE EQUAL IN AMPLITUDE AND 180 DEGREES OUT OF PHASE.
  - E RETURN 'ZONE 1' BRIDGE SWITCH TO STEREO.
- 7) REPEAT STEPS (5) AND (6) FOR ZONES "2" THROUGH "6".
- 8) SIGNAL SENSE
- A DAISY CHAIN CHANNELS "1L" TO "3R", AND CHANNELS "4L" TO "6R".
- B SET 1700B ATTEN = -SODB, INPUT = 10MV. USING SPLITTER CONNECT OUTPUT TO CHANNELS "3R" AND "4L"
- C ALL 12 CHANNELS ARE NOW DRIVEN. ADJUST VERNIER FOR 20MVRMS AT OUTPUT. ALL CHANNELS SHOULD BE ON.
- D ADJUST VERNIER TO ZERO (3MVRMS AT OUTPUT). ALL ZONES SHOULD TURN OFF BETWEEN 30 AND 60 SEC.
- E SET 17008 INPUT = 3V. ATTEN = ODB. ALL ZONES SHOULD GO GREEN (ON) INSTANTLY.
- F CHECK ALL OUTPUTS, SHOULD BE 8VP-P (2.7VRMS) +/-5%.
- G TURN UNIT OFF. DISCONNECT CABLES, LEAVE INPUTS DAISY CHAINED. DELIVER TO BURN IN.
- 9) BURN IN

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- CONNECT INPUT AND OUTPUT CABLES. CONNECT MAINS CABLE
- TURN UNIT ON, SET OUTPUT POWER TO SVRMS.
- C BURN IN FOR TWO HOURS, CHECK THAT ALL LOAD AND RELAY LED'S ARE ON.
- D TURN POWER OFF. REMOVE FROM BURN IN RACK. IF ALL LED'S OK, INSTALL COVER AND DELIVER TO FINAL TEST.
- E IF ALL LED'S NOT ON DELIVER TO REWORK.
- 10) FINAL TEST
  - A SET TEST EQUIPMENT AS IN BEGINNING OF TEST PROCEDURE.
  - B | CONNECT OUTPUT CABLE TO PX612 LOAD BOX. CONNECT GT. LOAD BOX TO OUTPUT 1L
  - C CONNECT 1700B OUTPUT TO CH-1L INPUT.
- D SET LOADS OPEN. SET 1700B TO VOLTS.

OUTPUT CONNECTOR

- RAISE VERNIER ON 1700B UNTIL SCOPE CLIP 20VRMS. SEE PHOTO "A".
- F GRADUALLY LOWER VERNIER UNTIL OUTPUT = 17VRMS. COMPARE TO PHOTO "B". SET DIST ON 1700B <.15%.
- G GRADUALLY LOWER VERNIER ON 1700B TO ZERO. DISTORTION SHOULD HOVER BETWEEN . 1% AND . 15% UNTIL
- H | OUTPUT BELOW 8V. OUTPUT SHOULD THEN SUDDENLY DROP BELOW .1% AND REMAIN THERE UNTIL VERNIER = 0.
- REPEAT FOR CHANNELS 18 THROUGH 6R.

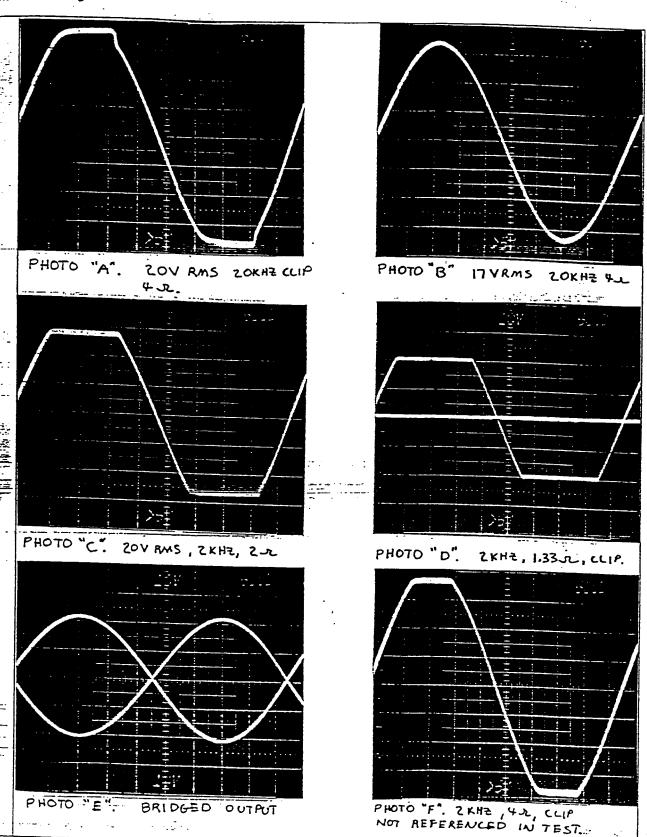


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### MADRIGAL AUDIO LABS

Procedure No: Revision: Title: PX – 612 TEST PROCEDURE

Prepared By: Wayne Mergel Approved By: Page 1 of 1

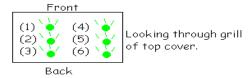
Purpose: The purpose of this document is to establish a procedure for testing PX-612 units.

Application: For use in the PX-612 Department

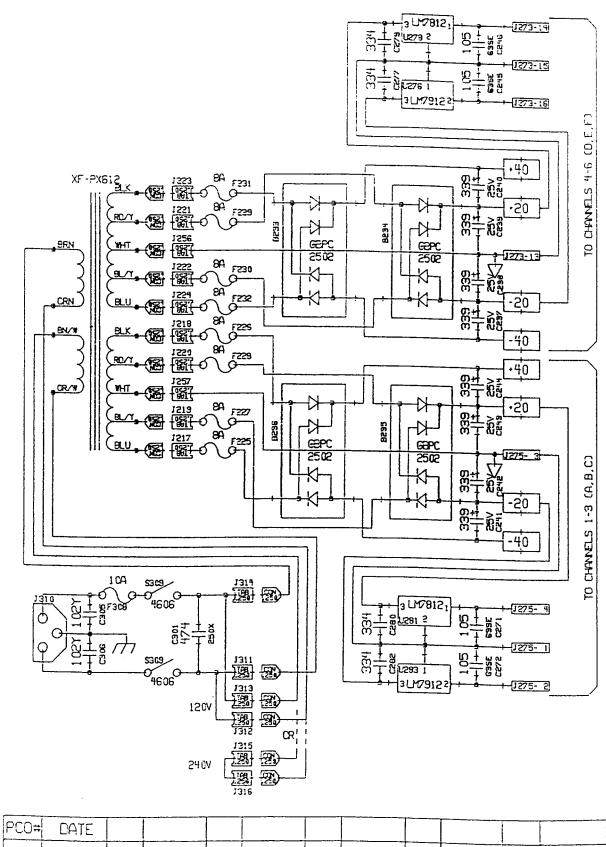
Related Documents: None Equipment Needed: 1-Audio Source, 1 -Speaker Switch Box, 1-48" Speaker Wire Harness

#### Procedure:

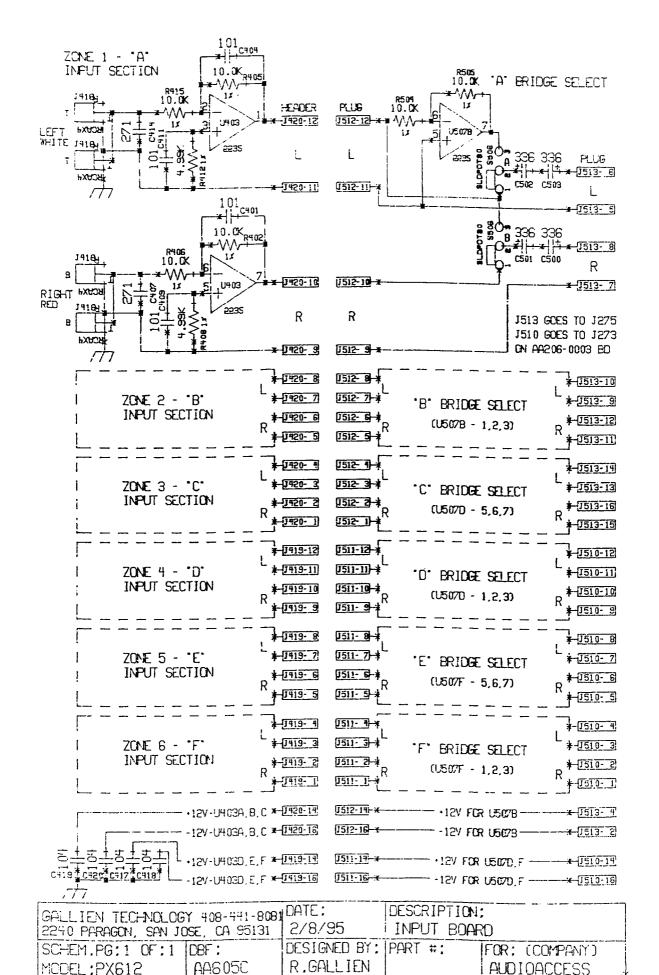
- I. Connect AC Line to PX-612, and then turn on with the power switch on rear panel. Observe LED on the front panel. It should initially be Red, then change to Amber. Watch for about 1 minute to ensure it does not turn Green. Set all six stereo/bridged switches to the stereo position (switched to right).
- II. Connect speaker harness to PX-612 and the speaker switch box.
- III. On PX-612 back panel connect Audio Source to Zone 1 Input.
- IV. As soon as the Audio Source is connected to Zone Inputs on the rear of the unit, the front panel LED should change from Amber to Green.
- V. Make sure that the speaker switch box is set to the same number as the Audio Source is plugged into. You should be able to hear Audio in both speakers.
- VI. Move Right Audio Source to other Zone 1 Right RCA and listen for Audio cut off and come back on the right speaker.
- VII. Switch Zone 1 to bridged mode by moving switch Left. Then move Left Audio Source to the second Zone 1 Left RCA. The Audio should cut out completely on both Left and Right speakers.
- VIII. Switch back to stereo on Zone 1 by switching switch back to the Right (stereo mode) and move the Left RCA connector to Zone 2 and listen for the Left speaker to cut out.
- IX. Switch the speaker switch box to Zone 2 and listen for the Left channel to come on as the Right goes off.
- X. Move Left RCA to Zone 2 also.
- XI. Repeat steps VI through X, working through all Six Zones.
- XII. As each Zone is activated observe that the Green LEDS inside unit light as it's respective zone "sees" an Input.



- XIII. After testing all Six Zones disconnect Audio Source and <u>leave unit on</u> for several minutes. The Front panel LED should eventually change to Amber Again.
- XIV. This completes Testing.



THILL SHIP				-
GALLIEN TECHNOLOG 2240 PARAGON, SAN JO	Y 408-441-8081 DSE, CA 95131	DATE: 3/6/95	DESCRIPTION: POWER SUPPLY	Ī
SCHEM.PG:3 CF:3 MODEL:PX612	DBF: AA503D	DESIGNED BY: R.GALLIEN	PART #: FCR: (COMPANY) AUDIOACCESS	





DOC. NUMBER CUSTOMER

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PRODUCT

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EQUIPMENT	SETTINGS	CONNECTIONS
SCOPE	VERT (10 VOLT/ DIV), TIME BASE (5 USEC/DIV)	"A" - LOAD BOX SCOPE OUTPUT. "B" - X10 PROBE
	MEASUREMENTS WITH RESPECT TO CHASSIS	A STOPHOBE
17008	INPUT (30V), RATIO (.3%), FILTERS (OUT),	INPUT - LOAD BOX INST OUT, OUTPUT - RCA ADAPTER
	FREG (20KHz), ATTEN (0dB), VERN (MIN)	TOTAL SOLL SOLL STANDARTER
FLUKE D810	DC VOLTS, 200MV	INPUT - BIAS CABLE
VARIAC	ZERO	
PX612 LOAD		
GT. LOAD BOX	LOAD "A" & "B" OPEN, INST SELECT "A"	CABLE FROM LOAD "A" TO LOAD "B".
<del>-</del>		CABLE TO LOAD "A" WITH RED AND BLACK CLIP LEADS.
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1) SETUP	<del></del>	

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- A INSPECT ALL WIRING, SOLDER JOINTS, AND ASSEMBLY FOR GOOD WORKMANSHIP.
- B CHECK THAT ALL TEMP SENSE TRANSISTORS SNUG AGAINST SINKS. ADJUST ALL TRIM POTS FULL CLOCKWISE.

C POWER SWITCH OFF, CONNECT MAINS CORD FROM VARIAC.

- D CONNECT BIAS CABLE CH-6R (J118A), X10 PROBE CH-1L OUTPUT (L113A).
- E SET ALL TRIM POTS FULL CLOCKWISE. SET ALL BRIDGE SWITCHES TO STEREO.
- 2) TURN ON
  - A SLOWLY RAISE VARIAC TO 50V AC, WHILE WATCHING SCOPE OUTPUT AND VARIAC CURRENT. THE VARIAC CURRENT SHOULD READ ZERO. THE OUTPUT SHOULD GO NEG < 10V THEN SNAP TO OV.
  - B MEASURE Q34-C= + 8V, Q96-C=-8V, Q117-C= +8V, Q105-C=-8V, FOR ZONES "A" TO "F"
  - C MEASURE CO = + 15V, C188=-15V FOR ZONE 'A' AND 'D'. VOLTAGE ON ALL HEAT SINKS = ZERO.
  - D RAISE VARIAC TO 120 VOLTS, CURRENT < 300MA. NOTE FRONT PANEL LED IS ORANGE.
  - E SUPPLY VOLTAGES NOW MEASURE +/- 19V. AND +/- 38V.
  - F SET SCOPE TO SOMV/DIV. MEASURE OUTPUT VOLTS AT L113(A-F), AND L92(A-F). LESS THAN +/- SOMV.
- 3) BIAS ADJUST
  - A ADJUST R109 FOR 2.5MV +/- .2MV. MOVE BIAS CABLE TO J97A, REPEAT FOR R88. REPEAT FOR ZONES B-F.
- 4) POWER TEST
  - A CONNECT OUTPUT CABLE TO PX612 LOAD BOX. CONNECT GT. LOAD BOX TO OUTPUT 1L
  - B CONNECT 1700B OUTPUT TO CH-1L INPUT.
  - C SET LOADS OPEN. SET 1700B TO VOLTS.

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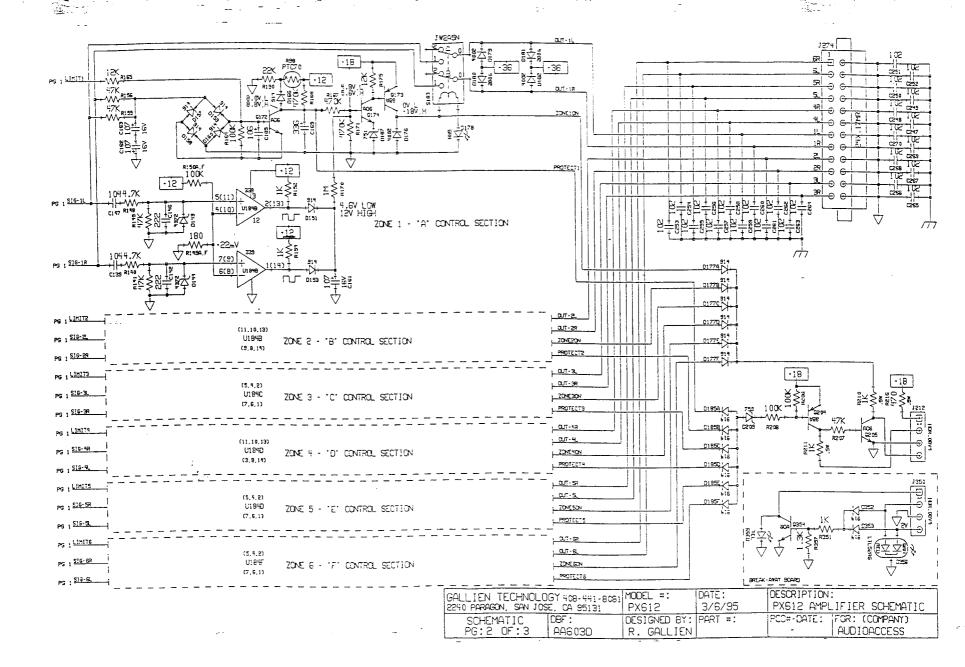
### OUTPUT CONNECTOR

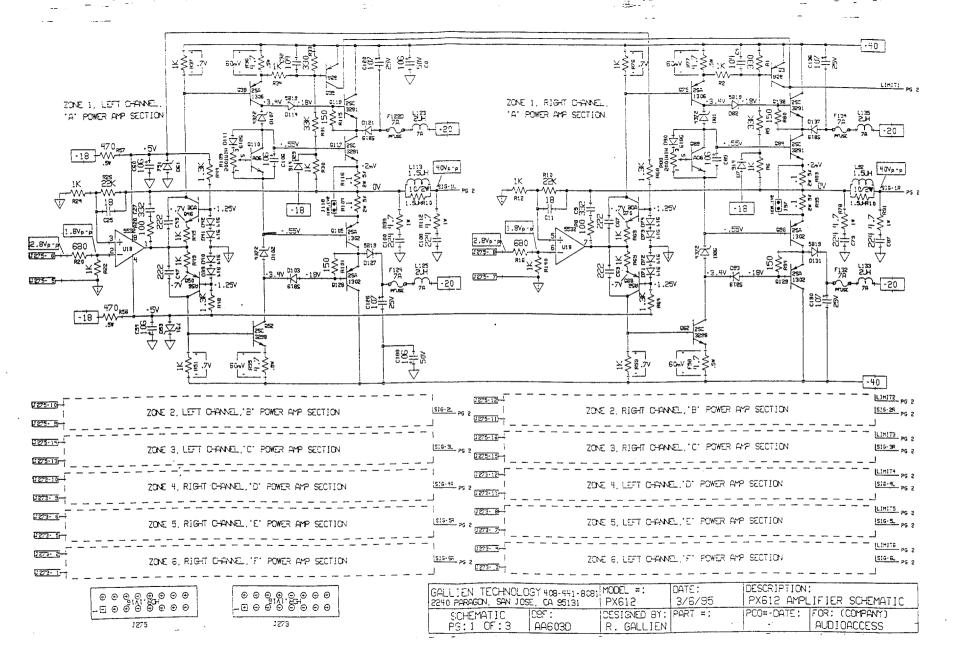
- C RAISE VERNIER ON 1700B UNTIL SCOPE CLIP 20VRMS. SEE PHOTO 'A'.
  - GRADUALLY LOWER VERNIER UNTIL OUTPUT = 17VRMS. COMPARE TO PHOTO 'B'. SET DIST ON 17008 < .15%.
  - GRADUALLY LOWER VERNIER ON 1700B TO ZERO. DISTORTION SHOULD HOVER BETWEEN .1% AND .15% UNTIL OUTPUT BELOW 8V. OUTPUT SHOULD THEN SUDDENLY DROP BELOW .1% AND REMAIN THERE UNTIL VERNIER = 0
- F REPEAT FOR CHANNELS 1R THROUGH 6R.
- 5) CURRENT SENSE

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- A SET 1700B TO 2KHZ, AND VOLTS. SET SCOPE TO 10V, AND SOUSEC.
- B CONNECT GT. LOAD BOX TO OUTPUT IL, AND SET TO 4 OHMS (2 OHMS TOTAL LOAD).
- C | CONNECT 17008 OUTPUT TO CH-1L. ADJUST VERNIER FOR 20VRMS OUTPUT.
- D COMPARE TO PHOTO "C". UNIT MAY CYCLE ON AND OFF.
- E SET GT. LOAD BOX TO 2 OHMS (1.33 OHMS TOTAL LOAD). COMPARE TO PHOTO 'D'. UNIT MAY CYCLE ON AND OFF.
- F SHORT CUTPUT WITH SHORTING PLUG. UNIT SHOULD SHUT OFF INSTANTLY AND REMAIN OFF 5 TO 10 SECONDS. THE FRONT PANEL INDICATOR SHOULD GO RED THEN DRIFT THROUGH ORANGE TO GREEN. THE UNIT SHOULD THEN TURN ON AGAIN AND INSTANTLY TURN OFF REPEATING THE CYCLE AGAIN. THIS CYCLE WILL REPEAT UNTIL THE SHORT IS REMOVED.
- G REPEAT FOR CHAIR.





## PX-612

## PARTS CROSS-REFERENCE

### **DESCRIPTION**

D23-0110-0   SRIDGE RECTIFIER, KBPC25-02   O30-2271-0   CAP, CER AX, 271, 10%, 50V   O01-1042-0   CAP, CER, AX, 101, 10%, 50V   NPO   O30-2103-0   CAP, CER, AX, 104, 10%, 50V   O30-2104-0   CAP, CER, AX, 104, 10%, 50V   O30-2104-0   CAP, CER, AX, 104, 10%, 50V   O30-2104-0   CAP, CER, AX, 1151, 10%, 50V   O30-2180-0   CAP, CER, AX, 18 pf, 10%, 50V   NPO   O30-2222-0   CAP, CER, AX, 222, 10%, 50V   O30-2332-0   CAP, CER, AX, 222, 10%, 50V   O30-2332-0   CAP, CER, AX, 332, 10%, 50V   O30-2334-0   CAP, CER, AX, 332, 10%, 50V   O30-2334-0   CAP, CER, AX, 332, 10%, 50V   O38-0106-0   CAP, CER, AX, 332, 10%, 50V   O38-0106-0   CAP, CER, AX, 332, 10%, 50V   O38-0107-0   CAP, CER, AX, 334, 10%, 50V   O38-1107-0   CAP, CER, AX, 334, 10%, 50V   O39-7102-0   CAP, CER, AX, 334, 10%, 50V   CAP, CER, AX, 334, 10%, 50V   O39-7102-0   CAP, CER, AX, 334, 10%, 50V   CAP, CER, CAX, 107, 107, 20%, 63V, 50V   O39-7102-0   CAP, CER, CAX, 108, 107, 20%, 63V, 50V   CAP, CER, CAX, 108, 107, 20%, 50V   CAP, CER, CAX, 108, 10%, 50V   CAP, CER, CAX, 107, 107, 20%, 50V   CAP, CER, CAX, 107, 107, 107, 107, 107, 107, 107, 107			
001-1042-0 030-2103-0 030-2104-0 030-2104-0 030-2104-0 030-2104-0 030-2104-0 030-2100-0 030-2180-0 030-2180-0 030-2180-0 030-2180-0 030-2180-0 030-2180-0 030-2180-0 030-2180-0 030-2222-0 030-2222-0 030-2222-0 030-2232-0 030-2332-0 030-2333-0 030-233-106-0 030-233-106-0 030-233-106-0 030-233-106-0 030-233-106-0 030-23105-0 030-20105-0 030-20105-0 030-20105-0 030-20105-0 04-20103-0 050-20105-0 050-20105-0 050-0 0	023-0110-0		BRIDGE RECTIFIER, KBPC25-02
303-2103-0   CAP, CER, AX, 103, 10%, 50V	030-2271-0		CAP, CER AX, 271, 10%, 50V
303-2103-0   CAP, CER, AX, 103, 10%, 50V	001-1042-0		CAP, CER, AX, 101, 10%, 50V, NPO
303-2104-0   CAP, CER, AX, 104, 10%, 50V	030-2103-0		CAP, CER, AX, 103, 10%, 50V
CAP, CER, AX, 18 pf, 10%, 50V, NPO	030-2104-0		
CAP, CER, AX, 18 pf, 10%, 50V, NPO	030-2104-0		CAP. CER. AX. 151, 10%, 50V
CAP, CER, AX, 222, 10%, 50V			
CAP, CER, AX, 224, 10%, 50V			
CAP, CER, AX, 332, 10%, 50V			
CAP, CER, AX, 334, 10%, 50V			
038-0106-0 038-0107-0 038-0107-0 038-0107-0 CAP, ELEC, AX TR, 106, 20%, 16V 038-0336-0 038-0336-0 0AP, ELEC, AX TR, 107, 20%, 6.3V, 5X11M 038-0336-0 0AP, ELEC, AX TR, 336, 20%, 25V 038-2106-0 038-1107-0 CAP, ELEC, AX, 106, -10/+50%, 50V 039-7102-0 039-7102-0 CAP, MET PAPER, Y-CAP, 102, 20%, 250V 039-7474-0 032-3105-0 032-3105-0 CAP, MET PAPER, Y-CAP, 102, 20%, 250V 032-3105-0 CAP, ELEC, AX, 107, -10/+50%, 50V CAP, MET PAPER, Y-CAP, 102, 20%, 250V 032-3105-0 CAP, ELEC, AX, 107, -10/+50%, 50V CAP, MET PAPER, Y-CAP, 102, 20%, 250V 032-3105-0 CAP, ELEC, AX, 107, -10/+50%, 50V CAP, MET PAPER, Y-CAP, 102, 20%, 250V 032-3105-0 CAP, ELEC, AX, 107, -10/+50%, 50V CAP, MET PAPER, Y-CAP, 102, 20%, 250V 032-3105-0 CAP, ELEC, AX, 107, -10/+50%, 50V CAP, MET PAPER, Y-CAP, 102, 20%, 250V 032-3105-0 CAP, ELEC, AX, 107, -10/+50%, 50V CAP, MET PAPER, Y-CAP, 102, 20%, 250V 032-3105-0 CAP, ELEC, AX, 107, -10/+50%, 50V CAP, ELEC, AX, 106, -10/+50%, 50V CAP, ELEC, AX, 107, -10/+50%, 50V CAP, ELEC, AX, 106, -10/+50%, 50V CAP, ELEC, AX, 106, -10/+50%, 50V CAP, ELEC, AX, 107, 10/50%, 50V CAP, ELEC, AX, 107, 107, 100/50%, 50V CAP, ELEC, AX, 107, 107, 100/50%, 50V CAP, ELEC, AX, 107, 100, 100 CAP, ELEC, AX, 107, 107, 100 CAP, ELEC, AX, 107, 100, 100 CAP, ELEC, AX, 107, 100, 100 CAP, ELEC, AX, 107, 100, 100 CAP, E			
O38-0107-0			
038-0336-0 038-2106-0 038-2106-0 038-1107-0 039-7474-0 038-1108-0			
038-2106-0 038-1107-0 038-1107-0 038-1107-0 039-7102-0 039-7102-0 039-7102-0 039-7102-0 039-7474-0 039-7102-0 039-7474-0 039-7102-0 039-7474-0 039-7474-0 039-7102-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 031-1339-0 031-1339-0 04-020-2105-0 04-020-2105-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-21103-0 050-2103-0 050-2103-0 050-2103-0 050-2103-0 050-2103-0 050-2103-0 050-			
038-1107-0   CAP, ELEC, AX, 107, -10/+50%, 50V     039-7474-0   CAP, MET PAPER Y-CAP, 102, 20%, 250V     039-7474-0   CAP, MET PAPER Y-CAP, 102, 20%, 250V     032-3105-0   CAP, PE, 105, 5%, 25V (LOW V FILTER)     031-1339-0   CAP, ELEC, RAD, 339, 20%, 50V (FILTER)     020-2105-0   620-2002-000   DIODE, 1N4002     020-1103-0   620-2914-000   DIODE, 1N914, 75ma, 100V     020-1103-0   620-2591-000   DIODE, SHOTTKY, 1N5819, 1A, 40V     020-0120-0   620-2599-000   DIODE, ZENER, 1N759A, 12V, 50Omw     020-0030-0   DIODE, ZENER, 1N759A, 12V, 50Omw     020-0050-0   620-2597-000   DIODE, ZENER, 1N759A, 12V, 50Omw     020-0050-0   620-2597-000   DIODE, ZENER, 1N751, 5.0V, 500mw     020-0050-0   FROOD			
039-7102-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-7474-0 039-3474-0 039-3474-0 039-3105-0 030-31-339-0 020-2105-0 020-2105-0 020-2105-0 020-2103-0 020-1103-0 020-2103-0 020-1103-0 020-0120-0 020-0120-0 020-0120-0 020-0030-0 020-0030-0 020-0050-			
039-7474-0 032-3105-0 032-3105-0 031-339-0 020-2105-0 0620-22015-0 0620-22015-0 0620-2914-000 020-1103-0 0620-2914-000 020-1103-0 0620-2914-000 020-1103-0 0620-2914-000 020-1103-0 0620-2599-000 020-0103-0 020-0030-0 020-0050-0 020-			
032-3105-0         CAP, PE, 105, 5%, 25V (LOW V FILTER)           031-1339-0         CAP, ELEC, RAD, 339, 20%, 50V (FILTER)           020-2105-0         620-2002-000         DIODE, 1N4002           020-1103-0         620-2914-000         DIODE, 1N914, 75ma, 100V           020-1103-0         620-5819-000         DIODE, SHOTTKY, 1N5819, 1A, 40V           020-0120-0         620-2559-000         DIODE, ZENER, 1N759A, 12V, 500mw           020-0030-0         620-2597-000         DIODE, ZENER, 1N751, 5.0V, 500mw           020-0050-0         620-2597-000         DIODE, ZENER, 1N751, 5.0V, 500mw           020-0050-0         620-2597-000         DIODE, ZENER, 1N751, 5.0V, 500mw           020-0050-1         END CAP, LEFT           780-0600-050         END CAP, RIGHT           101-0000-0         720-2500-010         FOOT SNAP IN GOLD           091-0016-0         664-2210-000         FUSE, 5MM, 10A, SB           604-2208-000         FUSE, 5MM, 8A, SB           091-0017-0         FUSE, 5MM, 8A, SB           091-0017-0         FUSE, PICO, 7A           (05-7712-000         IC, LM339A, QUAD COMPARATOR           081-0030-0         INDUCTOR, 2 UH, 7A FERRITE           092-0007-0         JACK, RCAX4, HORIZ, GOLD, RD/WT           025-010-0         LED, RED/GRN			
031-1339-0 020-2105-0 020-2105-0 020-1103-0 020-1103-0 020-1103-0 020-1103-0 020-1103-0 020-1103-0 020-1103-0 020-1103-0 020-1103-0 020-1103-0 020-103-0 020-0120-0 020-0120-0 020-0120-0 020-0030-0 020-0050-0 0			
020-2105-0         620-2002-000         DIODE, 1N4002           020-1103-0         620-2914-000         DIODE, 1N914, 75ma, 100V           020-1103-0         620-5819-000         DIODE, SHOTTKY, 1N5819, 1A, 40V           020-0120-0         620-2599-000         DIODE, ZENER, 1N759A, 12V, 5OOmw           020-0030-0         DIODE, ZENER, 1N4372, 3.0V, 500mw           020-0050-0         620-2597-000         DIODE, ZENER, 1N751, 5.0V, 500mw           020-0050-0         780-0600-051         END CAP, RIGHT           101-0000-0         720-2500-010         FOOT SNAP IN GOLD           091-0016-0         664-2210-000         FUSE, 5MM, 10A, SB           664-2208-000         FUSE, 5MM, 8A, SB           091-0017-0         FUSE, PICO, 7A           001-1195-0         605-0339-000         IC, 5532N BI-POLAR OP-AMP           081-0030-0         INDUCTOR, 2 UH, 7A FERRITE           092-0007-0         INDUCTOR, 2 UH, 7A FERRITE           092-0007-0         JACK, RCAX4, HORIZ, GOLD, RD/WT           025-0010-0         LED, SRN, 3MM           025-0023-0         621-2009-000         LED, YEL           022-2079-0         MOV, 130V, 6500A, 1500pf           070-0520-0         POT, 500 OHM TRIM           AA132-003-D         AP.612 FRONT PANEL			
020-1103-0         620-2914-000         DIODE, 1N914, 75ma, 100V           020-1103-0         620-5819-000         DIODE, SHOTTKY, 1N5819, 1A, 40V           020-0120-0         620-2599-000         DIODE, ZENER, 1N759A, 12V, 50Omw           020-0030-0         DIODE, ZENER, 1N4372, 3.0V, 500mw           020-0050-0         620-2597-000         DIODE, ZENER, 1N751, 5.0V, 500mw           020-0050-0         780-0600-051         END CAP, LEFT           780-0600-050         END CAP, RIGHT           101-0000-0         720-2500-010         FOOT SNAP IN GOLD           091-0016-0         664-2210-000         FUSE, 5MM, 10A, SB           664-2208-000         FUSE, 5MM, 8A, SB           091-0017-0         FUSE, PICO, 7A           605-7712-000         IC, LM339A, QUAD COMPARATOR           081-0030-0         INDUCTOR, 1 UH W/ 10 OHM 2W RES           081-0037-0         INDUCTOR, 2 UH, 7A FERRITE           092-0007-0         JACK, RCAXA, HORIZ, GOLD, RD/WT           025-010-0         LED, GRN, 3MM           025-0023-0         621-2009-000         LED, YEL           070-0520-0         MOV, 130V, 6500A, 1500pf           070-0520-0         POT, 500 OHM TRIM           0A132-003-0         760-4600-003         PX-612 FRONT PANEL           0A26-00		620, 2002, 000	
020-1103-0         620-5819-000         DIODE, SHOTTKY, 1N5819, 1A, 40V           020-0120-0         620-2599-000         DIODE, ZENER, 1N759A, 12V, 500mw           020-0030-0         DIODE, ZENER, 1N4372, 3.0V, 500mw           020-0050-0         620-2597-000         DIODE, ZENER, 1N751, 5.0V, 500mw           780-0600-051         END CAP, LEFT           780-0600-050         END CAP, RIGHT           101-0000-0         720-2500-010         FOOT SNAP IN GOLD           091-0016-0         664-2210-000         FUSE, 5MM, 10A, SB           664-2208-000         FUSE, 5MM, 8A, SB           091-0017-0         FUSE, PICO, 7A           001-1195-0         605-0712-000         IC, LM339A, QUAD COMPARATOR           081-0030-0         INDUCTOR, 1 UH W/ 10 OHM 2W RES           081-0057-0         INDUCTOR, 2 UH, 7A FERRITE           092-0007-0         JACK, RCAX4, HORIZ, GOLD, RD/WT           025-010-0         LED, GRN, 3MM           025-0023-0         621-2009-000         LED, YEL           022-2079-0         MOV, 130V, 6500A, 1500pf           070-0520-0         MOV, 130V, 6500A, 1500pf           A132-003-0         760-4600-003         PX-612 FRONT PANEL           A4145-0003-D         PX-612 POWER BOARD (COMPLETE ASSY)           A4145-0003-D			•
020-0120-0         620-2599-000         DIODE, ZENER, 1N759A, 12V, 500mw           020-0030-0         DIODE, ZENER, 1N4372, 3.0V, 500mw           020-0050-0         620-2597-000         DIODE, ZENER, 1N751, 5.0V, 500mw           780-0600-051         END CAP, LEFT           780-0600-050         END CAP, RIGHT           101-0000-0         720-2500-010         FOOT SNAP IN GOLD           091-0016-0         664-2210-000         FUSE, 5MM, 10A, SB           604-2208-000         FUSE, PICO, 7A           605-7712-000         IC, 5532N BI-POLAR OP-AMP           001-1195-0         605-0339-000         IC, LM339A, QUAD COMPARATOR           081-0030-0         INDUCTOR, 1 UH W/ 10 OHM 2W RES           081-0057-0         INDUCTOR, 2 UH, 7A FERRITE           092-0007-0         JACK, RCAX4, HORIZ, GOLD, RD/WT           025-010-0         LED, GRN, 3MM           025-0023-0         621-2009-000         LED, YEL           007-0520-0         MOV, 130V, 6500A, 1500pf           070-0520-0         POT, 500 OHM TRIM           AA132-003-0         760-4600-003         PX-612 INPUT BOARD (COMPLETE ASSY)           AA145-0003-D         PX-612 POWER BOARD (BLANK)           AA145-0003-D         PX-612 POWER BOARD (COMPLETE ASSY)           AA132-001-0         760			
DIODE, ZENER, 1N4372, 3.0V, 500mw			
020-0050-0         620-2597-000 780-0600-051 780-0600-051 780-0600-050         DIODE, ZENER,1N751, 5.0V, 500mw           101-0000-0         780-0600-050         END CAP, LEFT END CAP, RIGHT           091-0016-0         664-2210-000 664-2210-000         FUSE, 5MM, 10A, SB           091-0017-0         FUSE, 5MM, 8A, SB           091-0017-0         605-7712-000         IC, 5532N BI-POLAR OP-AMP           001-1195-0         605-0339-000         IC, LM339A, QUAD COMPARATOR           081-0030-0         INDUCTOR, 1 UH W/ 10 OHM 2W RES           081-0057-0         INDUCTOR, 2 UH, 7A FERRITE           092-0007-0         JACK, RCAX4, HORIZ, GOLD, RD/WT           025-010-0         LED, GRN, 3MM           025-0023-0         621-2009-000         LED, RED/GRN           022-2079-0         MOV, 130V, 6500A, 1500pf           070-0520-0         POT, 500 OHM TRIM           AA132-003-0         760-4600-003         PX-612 FRONT PANEL           AA206-0005-C         PX-612 INPUT BOARD (COMPLETE ASSY)           AA145-0003-D         PX-612 POWER BOARD (BLANK)           AA145-0003-D         PX-612 POWER BOARD (BLANK)           AA132-001-0         760-4600-008         PX-612 POWER BOARD (COMPLETE ASSY)           014-0066-0         633-7812-002         REGULATOR, LM7812, +12V, 1A		620-2599-000	
780-0600-051 780-0600-050 780-0600-050 101-0000-0 720-2500-010 720-2500-010 720-2500-010 720-2500-010 720-2500-010 720-2500-010 720-2500-010 720-2500-010 720-2500-010 720-2500-010 720-2500-000 720-2500-000 720-2500-000 720-2500-000 720-2500-000 720-25000-000 720-25000-000 720-25000-000 720-25000-000 720-2000-0000 720-2000-0000 720-2000-0000 720-2000-0000000000		620 2507 000	
780-0600-050 101-0000-0 720-2500-010 091-0016-0 664-2210-000 664-2208-000 FUSE, 5MM, 10A, SB FUSE, 5MM, 8A, SB  091-0017-0 605-7712-000 01-1195-0 081-0030-0 081-0030-0 081-0057-0 092-0007-0 025-0009-0 025-0009-0 070-0520-0 070-0520-0 AA145-0003-D AA132-001-0 760-4600-008 091-001 FOOT SNAP IN GOLD FUSE, SIMM, 10A, SB FUSE, 5MM, 10A, SB FU	020-0050-0		
101-0000-0       720-2500-010       FOOT SNAP IN GOLD         091-0016-0       664-2210-000       FUSE, 5MM, 10A, SB         664-2208-000       FUSE, 5MM, 8A, SB         091-0017-0       605-7712-000       IC, 5532N BI-POLAR OP-AMP         001-1195-0       605-0339-000       IC, LM339A, QUAD COMPARATOR         081-0030-0       INDUCTOR, 1 UH W/ 10 OHM 2W RES         081-0057-0       INDUCTOR, 2 UH, 7A FERRITE         092-0007-0       JACK, RCAX4, HORIZ, GOLD, RD/WT         025-010-0       LED, GRN, 3MM         025-0023-0       621-2009-000       LED, YEL         022-2079-0       MOV, 130V, 6500A, 1500pf         070-0520-0       POT, 500 OHM TRIM         AA132-003-0       760-4600-003       PX-612 FRONT PANEL         AA206-0005-C       PX-612 INPUT BOARD (COMPLETE ASSY)         AA145-0003-D       PX-612 POWER BOARD (BLANK)         AA145-0003-D       PX-612 POWER BOARD (COMPLETE ASSY)         AA132-001-0       760-4600-008       PX-612 TOP COVER         014-0066-0       633-7812-002       REGULATOR, LM7812, +12V, 1A			·
091-0016-0       664-2210-000       FUSE, 5MM, 10A, SB         091-0017-0       FUSE, 5MM, 8A, SB         091-0017-0       FUSE, PICO, 7A         605-7712-000       IC, 5532N BI-POLAR OP-AMP         001-1195-0       605-0339-000       INDUCTOR, 1 UH W/ 10 OHM 2W RES         081-0030-0       INDUCTOR, 1 UH W/ 10 OHM 2W RES         081-0057-0       INDUCTOR, 2 UH, 7A FERRITE         092-0007-0       JACK, RCAX4, HORIZ, GOLD, RD/WT         025-010-0       LED, GRN, 3MM         025-0009-0       LED, RED/GRN         025-0023-0       621-2009-000       LED, YEL         002-2079-0       MOV, 130V, 6500A, 1500pf         070-0520-0       POT, 500 OHM TRIM         AA132-003-0       760-4600-003       PX-612 FRONT PANEL         AA206-0005-C       PX-612 INPUT BOARD (COMPLETE ASSY)         AA145-0003-D       PX-612 POWER BOARD (BLANK)         AA145-0003-D       PX-612 POWER BOARD (COMPLETE ASSY)         AA132-001-0       760-4600-008       PX-612 TOP COVER         014-0066-0       633-7812-002       REGULATOR, LM7812, +12V, 1A	101 0000 0		
091-0017-0			
091-0017-0         FUSE, PICO, 7A           001-1195-0         605-7712-000         IC, 5532N BI-POLAR OP-AMP           001-1195-0         605-0339-000         IRDUCTOR, 1 UH W/ 10 OHM 2W RES           081-0057-0         INDUCTOR, 2 UH, 7A FERRITE           092-0007-0         JACK, RCAX4, HORIZ, GOLD, RD/WT           025-010-0         LED, GRN, 3MM           025-0023-0         621-2009-000         LED, YEL           022-2079-0         MOV, 130V, 6500A, 1500pf           070-0520-0         POT, 500 OHM TRIM           AA132-003-0         760-4600-003         PX-612 FRONT PANEL           AA206-0005-C         PX-612 INPUT BOARD (COMPLETE ASSY)           AA145-0003-D         PX-612 POWER BOARD (BLANK)           AA145-0003-D         PX-612 POWER BOARD (COMPLETE ASSY)           AA132-001-0         760-4600-008         PX-612 TOP COVER           014-0066-0         633-7812-002         REGULATOR, LM7812, +12V, 1A	091-0016-0		
605-7712-000 IC, 5532N BI-POLAR OP-AMP 001-1195-0 605-0339-000 IC, LM339A, QUAD COMPARATOR 081-0030-0 INDUCTOR, 1 UH W/ 10 OHM 2W RES 081-0057-0 INDUCTOR, 2 UH, 7A FERRITE 092-0007-0 JACK, RCAX4, HORIZ, GOLD, RD/WT 025-010-0 LED, GRN, 3MM 025-0009-0 LED, YEL 022-2079-0 MOV, 130V, 6500A, 1500pf 070-0520-0 POT, 500 OHM TRIM AA132-003-0 760-4600-003 PX-612 FRONT PANEL AA206-0005-C PX-612 INPUT BOARD (COMPLETE ASSY) AA145-0003-D PX-612 POWER BOARD (BLANK) AA132-001-0 760-4600-008 PX-612 TOP COVER 014-0066-0 633-7812-002 REGULATOR, LM7812, +12V, 1A	004 0047 0	004-2208-000	
001-1195-0       605-0339-000       IC, LM339A, QUAD COMPARATOR         081-0030-0       INDUCTOR, 1 UH W/ 10 OHM 2W RES         081-0057-0       INDUCTOR, 2 UH, 7A FERRITE         092-0007-0       JACK, RCAX4, HORIZ, GOLD, RD/WT         025-010-0       LED, GRN, 3MM         025-0002-0       LED, YEL         022-2079-0       MOV, 130V, 6500A, 1500pf         070-0520-0       POT, 500 OHM TRIM         AA132-003-0       760-4600-003       PX-612 FRONT PANEL         AA206-0005-C       PX-612 INPUT BOARD (COMPLETE ASSY)         AA145-0003-D       PX-612 POWER BOARD (BLANK)         PX-612 POWER BOARD (COMPLETE ASSY)         AA132-001-0       760-4600-008       PX-612 TOP COVER         014-0066-0       633-7812-002       REGULATOR, LM7812, +12V, 1A	091-0017-0	005 7740 000	
081-0030-0       INDUCTOR, 1 UH W/ 10 OHM 2W RES         081-0057-0       INDUCTOR, 2 UH, 7A FERRITE         092-0007-0       JACK, RCAX4, HORIZ, GOLD, RD/WT         025-010-0       LED, GRN, 3MM         025-0023-0       621-2009-000         025-0023-0       MOV, 130V, 6500A, 1500pf         070-0520-0       POT, 500 OHM TRIM         AA132-003-0       760-4600-003       PX-612 FRONT PANEL         AA206-0005-C       PX-612 INPUT BOARD (COMPLETE ASSY)         AA145-0003-D       PX-612 POWER BOARD (BLANK)         AA145-0003-D       PX-612 POWER BOARD (COMPLETE ASSY)         AA132-001-0       760-4600-008       PX-612 TOP COVER         014-0066-0       633-7812-002       REGULATOR, LM7812, +12V, 1A	004 4405 0		•
081-0057-0       INDUCTOR, 2 UH, 7A FERRITE         092-0007-0       JACK, RCAX4, HORIZ, GOLD, RD/WT         025-010-0       LED, GRN, 3MM         025-0023-0       621-2009-000         022-2079-0       MOV, 130V, 6500A, 1500pf         070-0520-0       POT, 500 OHM TRIM         AA132-003-0       760-4600-003       PX-612 FRONT PANEL         AA206-0005-C       PX-612 INPUT BOARD (COMPLETE ASSY)         AA145-0003-D       PX-612 POWER BOARD (BLANK)         AA145-0003-D       PX-612 TOP COVER         014-0066-0       633-7812-002       REGULATOR, LM7812, +12V, 1A		605-0339-000	
092-0007-0       JACK, RCAX4, HORIZ, GOLD, RD/WT         025-010-0       LED, GRN, 3MM         025-0009-0       LED, RED/GRN         025-0023-0       621-2009-000       LED, YEL         022-2079-0       MOV, 130V, 6500A, 1500pf         070-0520-0       POT, 500 OHM TRIM         AA132-003-0       760-4600-003       PX-612 FRONT PANEL         AA206-0005-C       PX-612 INPUT BOARD (COMPLETE ASSY)         AA145-0003-D       PX-612 POWER BOARD (BLANK)         AA145-0003-D       PX-612 POWER BOARD (COMPLETE ASSY)         AA132-001-0       760-4600-008       PX-612 TOP COVER         014-0066-0       633-7812-002       REGULATOR, LM7812, +12V, 1A			·
025-010-0       LED, GRN, 3MM         025-0009-0       LED, RED/GRN         025-0023-0       621-2009-000       LED, YEL         022-2079-0       MOV, 130V, 6500A, 1500pf         070-0520-0       POT, 500 OHM TRIM         AA132-003-0       760-4600-003       PX-612 FRONT PANEL         AA206-0005-C       PX-612 INPUT BOARD (COMPLETE ASSY)         AA145-0003-D       PX-612 POWER BOARD (BLANK)         AA145-0003-D       PX-612 POWER BOARD (COMPLETE ASSY)         AA132-001-0       760-4600-008       PX-612 TOP COVER         014-0066-0       633-7812-002       REGULATOR, LM7812, +12V, 1A			
025-0009-0       LED, RED/GRN         025-0023-0       621-2009-000       LED, YEL         022-2079-0       MOV, 130V, 6500A, 1500pf         070-0520-0       POT, 500 OHM TRIM         AA132-003-0       760-4600-003       PX-612 FRONT PANEL         AA206-0005-C       PX-612 INPUT BOARD (COMPLETE ASSY)         AA145-0003-D       PX-612 POWER BOARD (BLANK)         AA145-0003-D       PX-612 POWER BOARD (COMPLETE ASSY)         AA132-001-0       760-4600-008       PX-612 TOP COVER         014-0066-0       633-7812-002       REGULATOR, LM7812, +12V, 1A			
025-0023-0       621-2009-000       LED, YEL         022-2079-0       MOV, 130V, 6500A, 1500pf         070-0520-0       POT, 500 OHM TRIM         AA132-003-0       760-4600-003       PX-612 FRONT PANEL         AA206-0005-C       PX-612 INPUT BOARD (COMPLETE ASSY)         AA145-0003-D       PX-612 POWER BOARD (BLANK)         AA145-0003-D       PX-612 POWER BOARD (COMPLETE ASSY)         AA132-001-0       760-4600-008         014-0066-0       633-7812-002    REGULATOR, LM7812, +12V, 1A			
022-2079-0       MOV, 130V, 6500A, 1500pf         070-0520-0       POT, 500 OHM TRIM         AA132-003-0       760-4600-003       PX-612 FRONT PANEL         AA206-0005-C       PX-612 INPUT BOARD (COMPLETE ASSY)         AA145-0003-D       PX-612 POWER BOARD (BLANK)         AA145-0003-D       PX-612 POWER BOARD (COMPLETE ASSY)         AA132-001-0       760-4600-008       PX-612 TOP COVER         014-0066-0       633-7812-002       REGULATOR, LM7812, +12V, 1A		004 0000 000	·
070-0520-0       POT, 500 OHM TRIM         AA132-003-0       760-4600-003       PX-612 FRONT PANEL         AA206-0005-C       PX-612 INPUT BOARD (COMPLETE ASSY)         AA145-0003-D       PX-612 POWER BOARD (BLANK)         AA132-001-0       760-4600-008       PX-612 TOP COVER         014-0066-0       633-7812-002       REGULATOR, LM7812, +12V, 1A		621-2009-000	·
AA132-003-0 760-4600-003 PX-612 FRONT PANEL AA206-0005-C PX-612 INPUT BOARD (COMPLETE ASSY)  AA145-0003-D PX-612 POWER BOARD (BLANK)  PX-612 POWER BOARD (COMPLETE ASSY)  PX-612 POWER BOARD (COMPLETE ASSY)  PX-612 TOP COVER  O14-0066-0 633-7812-002 REGULATOR, LM7812, +12V, 1A			
AA206-0005-C  AA145-0003-D  AA145-0003-D  AA145-0003-D  AA132-001-0  AA132-001-0  AA132-001-0  AA132-002			· · · · · · · · · · · · · · · · · · ·
AA145-0003-D AA145-0003-D AA132-001-0 760-4600-008 014-0066-0 PX-612 POWER BOARD (BLANK) PX-612 POWER BOARD (COMPLETE ASSY) PX-612 TOP COVER REGULATOR, LM7812, +12V, 1A		760-4600-003	
AA145-0003-D PX-612 POWER BOARD (COMPLETE ASSY) AA132-001-0 760-4600-008 PX-612 TOP COVER 014-0066-0 633-7812-002 REGULATOR, LM7812, +12V, 1A			
AA132-001-0 760-4600-008 PX-612 TOP COVER 014-0066-0 633-7812-002 REGULATOR, LM7812, +12V, 1A			,
014-0066-0 633-7812-002 REGULATOR, LM7812, +12V, 1A			
	014-0066-0	633-7812-002	REGULATOR, LM7812, +12V, 1A Page 1

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014-1065-0	633-7912-002	PX-612	REGULATOR, LM7912, -12V, 1A
081-0009-0			RELAY, JW2EN, DC12V
050-1302-0			RES, CARBON FILM, 1.3K OHM, 1/8W, 5%
050-1001-0			RES, CARBON FILM, 100 OHM, 1/8W, 5%
050-1004-0	654-0040-100		RES, CARBON FILM, 100K OHM, 1/8W, 5%
050-1203-0			RES, CARBON FILM, 12K OHM, 1/8W, 5%
050-1501-0			RES, CARBON FILM, 150 OHM, 1/8W, 5%
050-1801-0			RES, CARBON FILM, 180 OHM, 1/8W, 5%
053-1002-0			RES, CARBON FILM, 1K OHM, 1/2W, 5%
050-1002-0	654-0020-100		RES, CARBON FILM, 1K OHM, 1/8W, 5%
050-1005-0			RES, CARBON FILM, 1M OHM, 1/8W, 5%
050-2204-0			RES, CARBON FILM, 220K OHM, 1/8W, 5%
050-2203-0			RES, CARBON FILM, 22K OHM, 1/8W, 5%
050-3301-0			RES, CARBON FILM, 330 OHM, 1/8W, 5%
050-3303-0			RES, CARBON FILM, 33K OHM, 1/8W, 5%
053-0470-0			RES, CARBON FILM, 4.7 OHM, 1/8W, 5%
054-0470-0	650-2348-005		RES, CARBON FILM, 4.7 OHM, 1W, 5%
050-4702-0			RES, CARBON FILM, 4.7K OHM, 1/8W, 5%
053-4701-0			RES, CARBON FILM, 470 OHM, 1/8W, 5%
050-4704-0			RES, CARBON FILM, 470K OHM, 1/8W, 5%
050-4703-0			RES, CARBON FILM, 47K OHM, 1/8W, 5%
050-6801-0			RES, CARBON FILM, 680 OHM, 1/8W, 5%
055100-1			RES, CERAMIC WW, .10 OHM, 2W, 5%
060-1003-0			RES, METAL FILM, 10K 1/8W, 1%
060-4992-0			RES, METAL FILM, 4.99K 1/8W, 1%
050-0000-0	651-0000-000		RES, METAL WIRE, 0 OHM, 1/8W
090-0022-0			SW, ROCKER, DPST, 10A, 250V
090-0033-0			SW, SLIDE, DPDT, PC MOUNT (BRIDGE SW)
022-0043-0			THERMISTOR, PTC, 70 DEG C
080-0067-A			TRANSFORMER 115/230V, SEMKO
012-1001-0	211-21302-00		8 TRANSISTOR, 2SA1302, PNP
012-1002-0			0 TRANSISTOR, 2SA1837, PNP
012-0001-0	210-43281-00		7 TRANSISTOR, 2SC3281, NPN
012-0002-0		72013	1 TRANSISTOR, 2SC4793, NPN
010-0012-0	624-0006-000		TRANSISTOR, MPSA06 NPN, TO-92
010-1013-0	624-0056-000		TRANSISTOR, MPSA56 PNP, TO-92

PX612 PARTS LIST	
AASWH/3	
	3M SPEAKER WIRE HARNESS
700-1000-256	
	48" SPEAKER WIRE HARNESS
AA145-004-D	
	POWER BOARD COMPLETE ASSEMBLY
800-3160-000-00	
	600/612/603 BOX
805-3000-007	
	600/612/603 FOAM SET
	B Stock Replacement Amp/ with trade
350206	5 AMP 250 VOLT SLO BLO FUSE

PX-612 Reac Connector PX612

32 3L ZEZLIEIL ULARSLSRGUR

Bottom Row All and.

4 4 4 4 4 4 4 4 4 4 4 6 6

LED (911811) 025-0101-0

Rolay: 081-0009-0

612

Mode Sw:090-0033-0

612 PC Board

AA 145-0004-7

612 Grim

12.5

XFR PX-612 230V

080-0003- A

PX-612

B. Stock: \$225.00 New Board: \$300.00

+1 hour

\$ 1 | 02 \$ 300.00 + 1 hour (+350.00)

- as of

612 PC Board

- 7X-612 -Power Relay PCB 220V X-1mp 2-30 3 780 Thomas - GRange -> Brown -- -> N.C. - Red - - Violet Anode I I cathode - - Yellow (b) [b] PWR Input PCB GREEN LED Amp 4-6 old MUS: Power Input Board: (See "More") 338 OORBB eRRel u a Da a Day e c D n n c e k 9 9 k 0 Range - - 7311 NC -9-9312 NC -9-9313 Red - - 9314 X-Imr Termination Brown - +9315 Violet - +9316 AC Power Relay PCB Note: Yellow wire 2 RO 3 F Y V 4C from x-former is not used for XRAY View) [38 -> To: F/P MUS/220VI [J9] → To: J-212 Systems 7 10/ old Input Pur. Bod more

VX-612 Old Power Input Board for Mon US Use Continued 1) Remove M300 Componant 2) Charge Luse to: 664-2205-000 PWR Input PCB GREEN LED Amp 4-6 Hure 1-3 88700788 112 8 8 9 1 1 H & Q & A Q & H C C H H C C C OH S OF SOLD AC PEDOCRES FOR SECOND (XRAY UND) DE PER LA