

Infinity Basslink SM

Powered, 8" (200mm) car audio under seat woofer system



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Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
15. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. The mains plug of the power supply cord shall remain readily operable.
18. Do not expose batteries to excessive heat such as sunshine, fire or the like.



CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.



THE LIGHTNING FLASH WITH AN ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE PRODUCT.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

For Products That Transmit and Receive RF Energy:

FCC Regulations (USA Only)

FCC Information For Users

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radio and Television Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and then on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment to a different outlet so that the equipment and receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: Changes or modifications not expressly approved by Harman could void the user's authority to operate the equipment.

IC Statement and Warning (Canada Only)

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For Canadian Model

This Class B digital apparatus complies with Canadian ICES-003.

Modèle pour les Canadien

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For Products with Radio Receivers That Can Use an External Antenna:

CATV or Antenna Grounding

If an outside antenna or cable system is connected to this product, be certain that it is grounded so as to provide some protection against voltage surges and static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements of the grounding electrode.

Note to CATV System Installer:

This reminder is provided to call the CATV (cable TV) system installer's attention to article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

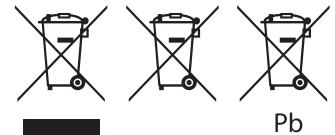
For CD/DVD/Blu-ray Disc™ Players:

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
CLASSE 1 PRODUIT LASER

Caution:

This product uses a laser system. To prevent direct exposure to the laser beam, do not open the cabinet enclosure or defeat any of the safety mechanisms provided for your protection. DO NOT STARE INTO THE LASER BEAM. To ensure proper use of this product, please read the owner's manual carefully and retain it for future use. Should the unit require maintenance or repair, please contact your local Harman Kardon service center. Refer servicing to qualified personnel only.

For Products That Include Batteries:



Instructions for Users on Removal and Disposal of Used Batteries.

CAUTION

Risk of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

Alkaline batteries are considered nonhazardous. Rechargeable batteries (i.e., nickel cadmium, nickel metal-hydride, lithium and lithium-ion) are considered hazardous household materials and may pose an unnecessary health and safety risk.

In the European Union and other locations, it is illegal to dispose of any battery with household trash. All batteries must be disposed of in an environmentally sound manner. Contact your local waste management officials for information regarding the environmentally sound collection, recycling and disposal of used batteries.

To remove the batteries from your equipment or remote control, reverse the procedure described for inserting batteries in the owner's manual.

For products with a built-in battery that lasts for the lifetime of the product, removal may not be possible for the user. In this case, recycling or recovery centers handle the dismantling of the product and the removal of the battery. If, for any reason, it becomes necessary to replace such a battery, this procedure must be performed by authorized service centers.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor "chip" components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.



1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge build-up or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES devices.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing.

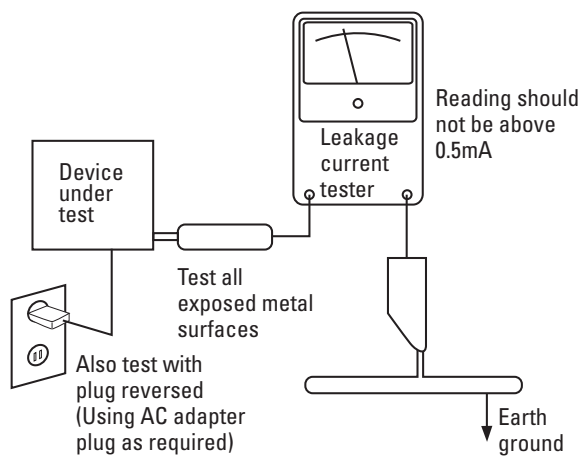
Components identified with the IEC symbol  in the parts list are of special significance to safety. When replacing a component identified with , use only the replacement parts designated, or parts with the same ratings or resistance, wattage, or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

SPECIFICATIONS -- Infinity BassLink SM / JBL BassPro SL

All tests should be done with gain controls set so 1 volt in will give you ROP and input switch should be set to low, power supply Voltage:DC=14.4V..... unless other wise specified			LIMIT	UNIT		
Type of Power AMP		Full Range: Class AB			N/A	
		Sub-w: Class D			Yes	
		Number of Channels			1	
Frequency Response		Sub-W	+/-3db	Hz	NA	
			+/-3db	Hz	35-120	
Crossover / EQ		Crossover	Filter range +/-3db	Hz	50-120	
			Slope	dB	-12dB/octave	
		Bass Boost	Center Frequency	Hz	70Hz	
			Variable Level	dB	0~9dB	
Phase switch				degree	0° or 180°	
Total MAX Power		V+=15.5V 50Hz for subwoofer Output Power at 10% THD			W	@10% THD @30s
Rated Output Power (Low input)						
4 Ohms load			@ 1% THD+N	W	>80W	
			@ ROP	%	<1%	
Rated Output Power (Hi input)						
4 Ohms load			@ 1% THD+N	W	>80W	
			@ ROP	%	<1%	
THD+N vs frequency at 1W 20Hz-200Hz for Sub-woofer		4 Ohms load		%	<0.3%	
Limiter/compressor					1% - 2% ROP	
Low Level - Fully differential input impedance				Ohm	>10k	
High Level 1- Fully differential input impedance				Ohm	>10k	
High Level 2- Fully differential input impedance				Ohm	=120	
Signal to Noise Ratio - A weighted Ref to 1 Watt				dB	>80dB	
Residual noise - A weighted					<0.1mV	
Effective damping factor at ROP					>6.2	
DC offset				mV	<30mV	
Turn on/off Noise				dB	<30	
thermal Noise				dB	<30	

SPECIFICATIONS -- Infinity BassLink SM / JBL BassPro SL

All tests should be done with gain controls set so 1 volt in will give you ROP and input switch should be set to low, power supply Voltage:DC=14.4V..... unless other wise specified		LIMIT	UNIT	
Input Sensitivity				
RCA input @ ROP speaker level input @ ROP HI1=HI2	Min Gain		Volts	2Vac
	Max Gain		mV	200mVac
	Min Gain		Volts	20Vac
	Max Gain		mV	2Vac
Remote Bass level control			dB	0- -40dB
Gain Control THD Test				
RCA input @ 1W speaker level input @1W	Control @ MIN gain		%	0.1%
	Control @ 1V ROP		%	0.1%
	Control @ Max gain		%	0.3%
	Control @ Min gain		%	0.1%
	Control @ Max gain		%	0.3%
Audio Turn on	Turn On			<10mVac for 2-3S
	Turn Off			<5mV for 10 minutes
Input Voltage				
		Main High	Vdc	16
		Main Low	Vdc	9
		Remote High (Turn On)	Vdc	4
		Remote Low (Turn Off)	Vdc	<4
Input Current	Main:	4 Ohm @ ROP	A	<10A
		Quiescent @ Pause mode	A	<1A
		Off mode @ Remote Off	uA	10
	Remote:	standby mode @ Remote of	mA	10
	efficiency	4 Ohm THD 1%	%	>80%
Power/Protect - Auto Reset		DC on output	Red LED	Yes
		Speaker shor 1W, ROP	Red LED	Yes
		Speaker shor 1W, ROP	Red LED	Yes
		Speaker shor 1W, ROP	Red LED	Yes
		Low Voltage	Red LED	Yes
		High Voltage	Red LED	Yes
		Input Reversed Voltage	fuse	Yes



BassLink SM

Powered, 8" (200mm) car audio under seat woofer system



Big bass from a compact powered subwoofer system.

The BassLink SM powered woofer fits under the front seat of many vehicles, and adds powerful bass to any car audio system. An electronic crossover and flexible EQ adjustments let you tune the BassLink SM to your system, your car's acoustic environment and your listening preferences. The energy-efficient digital amplifier provides a powerful engine to drive the subwoofer while staying cool even when driven hard. The BassLink SM delivers great bass output without taking up a lot of space.

Features

- ▶ Proprietary, shallow-profile woofer
- ▶ Efficient Class D amplifier
- ▶ Intelligent electronic design
- ▶ System Control
- ▶ Line- and high-level inputs
- ▶ Wired, remote level control capability



BassLink SM

Powered, 8" (200mm) car audio under seat woofer system



Proprietary, shallow-profile woofer

The 8" (200mm) woofer in the BassLink SM is designed specifically to provide low distortion, great bass performance contained in our proprietary ABS enclosure, which has a remarkably compact footprint.

Efficient Class D amplifier

The amp that powers the BassLink SM produces minimal heat, and it doesn't require a lot of current from the car's electrical system.

Intelligent electronic design

The BassLink SM employs custom circuitry to protect and provide optimum performance at varying output levels without impacting performance or clarity.

System Control

An electronic crossover control provides variable adjustment from 50Hz – 120Hz allowing you to dial-in BassLink SM to best integrate with the rest of your car audio system.

Line- and high-level inputs

For added installation flexibility, the BassLink SM features both line- and high-level inputs allowing you to connect to both factory installed and aftermarket systems. If you use the high-level inputs to connect the BassLink SM to the head unit, an input load switch lets you switch from "Low" to "High" to achieve optimum results.

Wired, remote level control capability

The BassLink SM is compatible with the RBC Remote Bass Controller (sold separately), which enables you to control the level remotely.

What's in the box:

1 powered woofer enclosure
4 mounting screws
Owner's manual

Product specifications:

BassLink SM

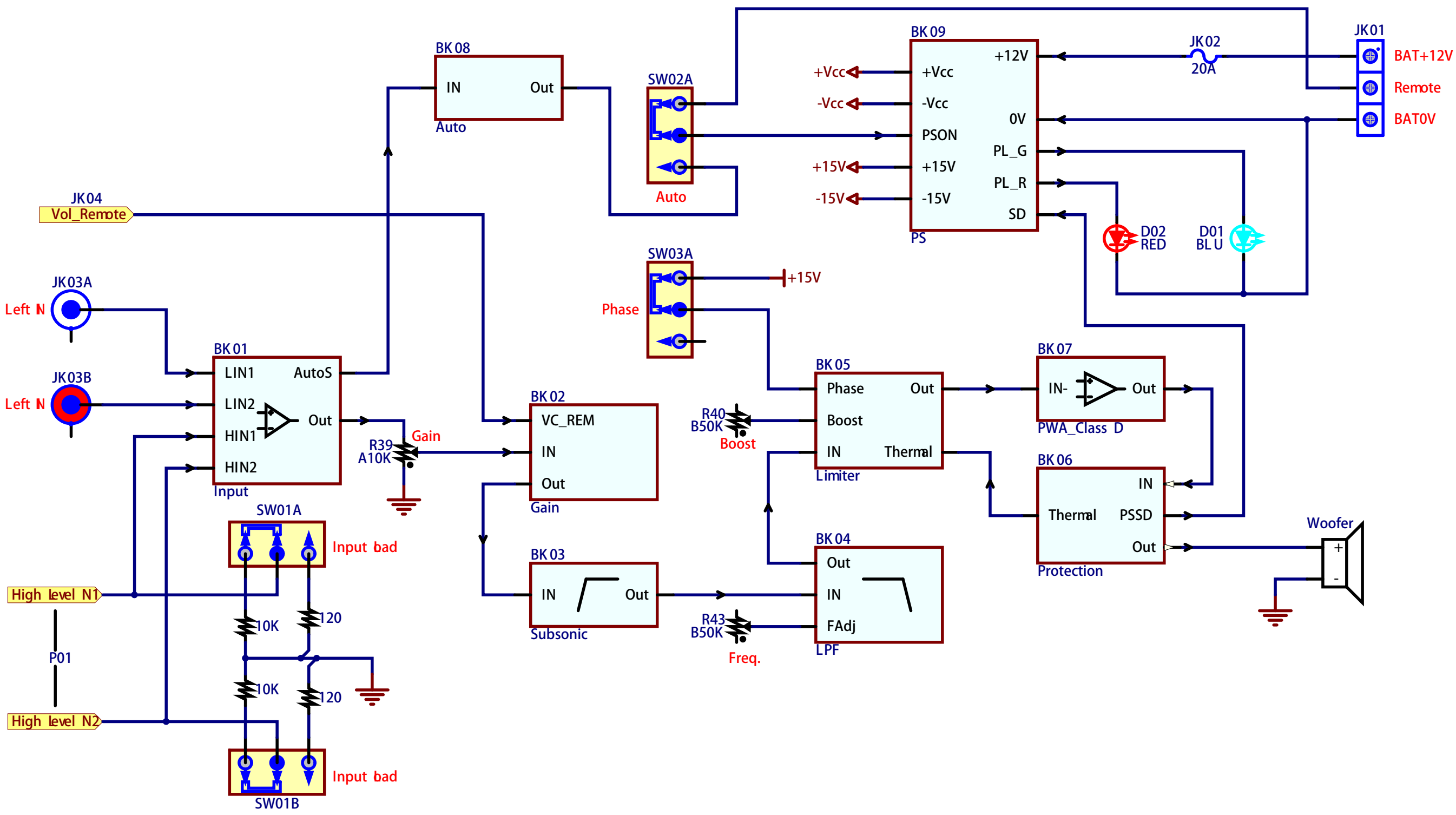
- ▶ Description: Powered, under seat woofer enclosure
- ▶ Woofer: 8" (200mm)
- ▶ Amplifier Power: 125W RMS
- ▶ Frequency Response: 35Hz – 120Hz
- ▶ Fuse: 20A
- ▶ Maximum Current Draw: 12A
- ▶ Quiescent Current Draw: <800mA
- ▶ Input Sensitivity: 0.2V – 2V Line-Level Input; 2V – 20V High-Level Input
- ▶ Crossover Frequency: 50Hz – 120Hz
- ▶ Crossover Slope: 12dB/octave
- ▶ Bass Boost: 0dB to +9dB @ 70Hz
- ▶ Dimensions (L x W x H):
13-9/16" x 9-7/8" x 2-13/16"
(344mm x 250mm x 71mm)



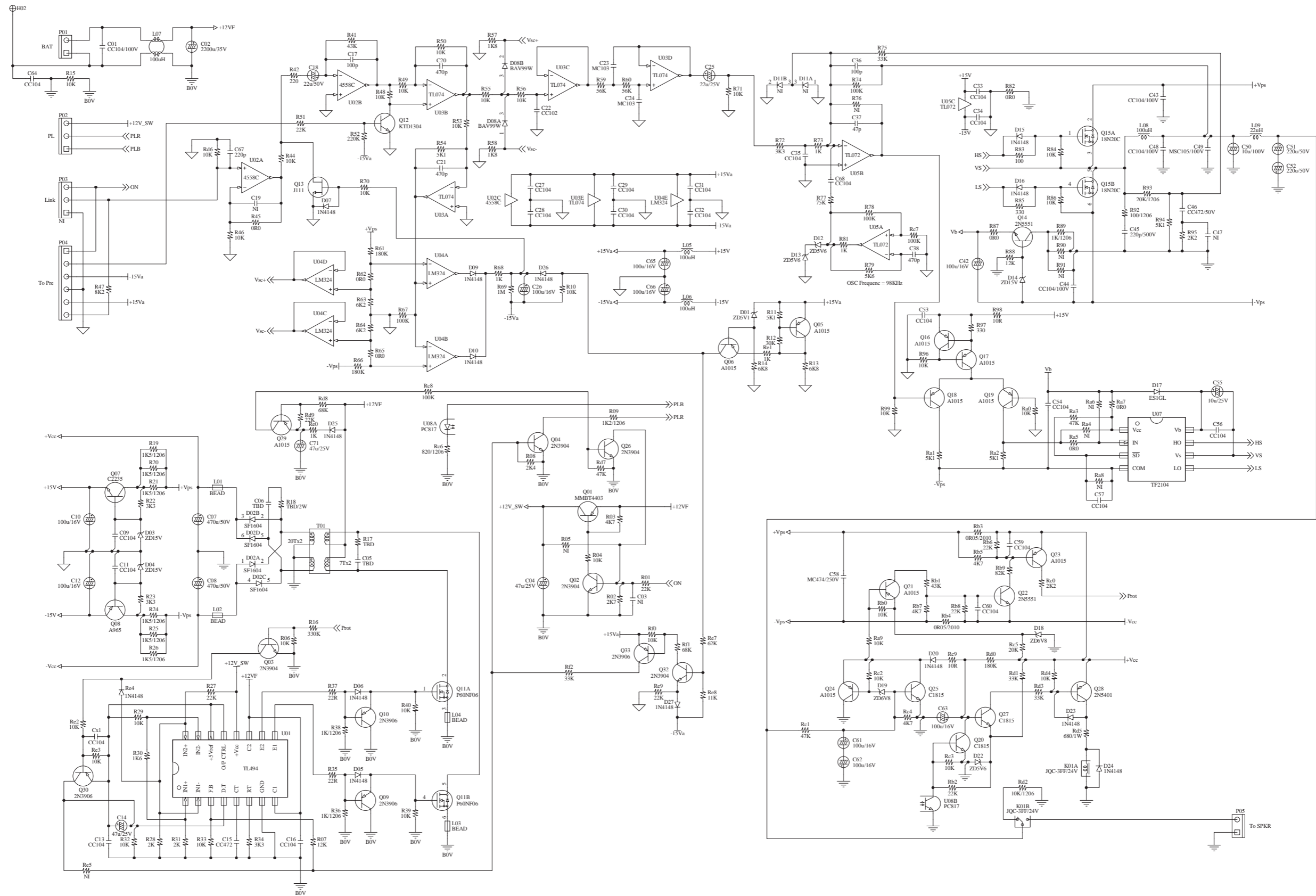
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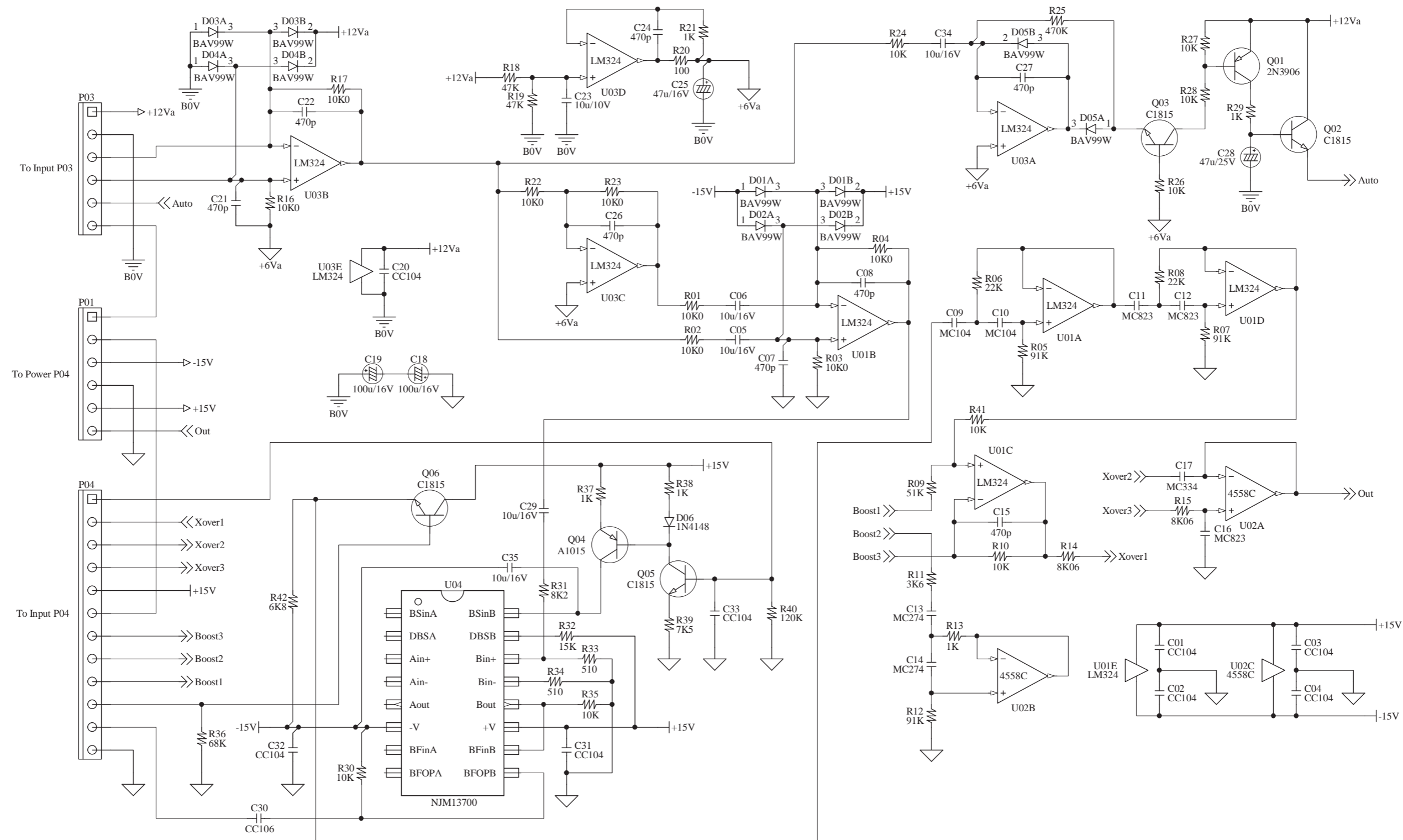
SET BLOCK DIAGRAM



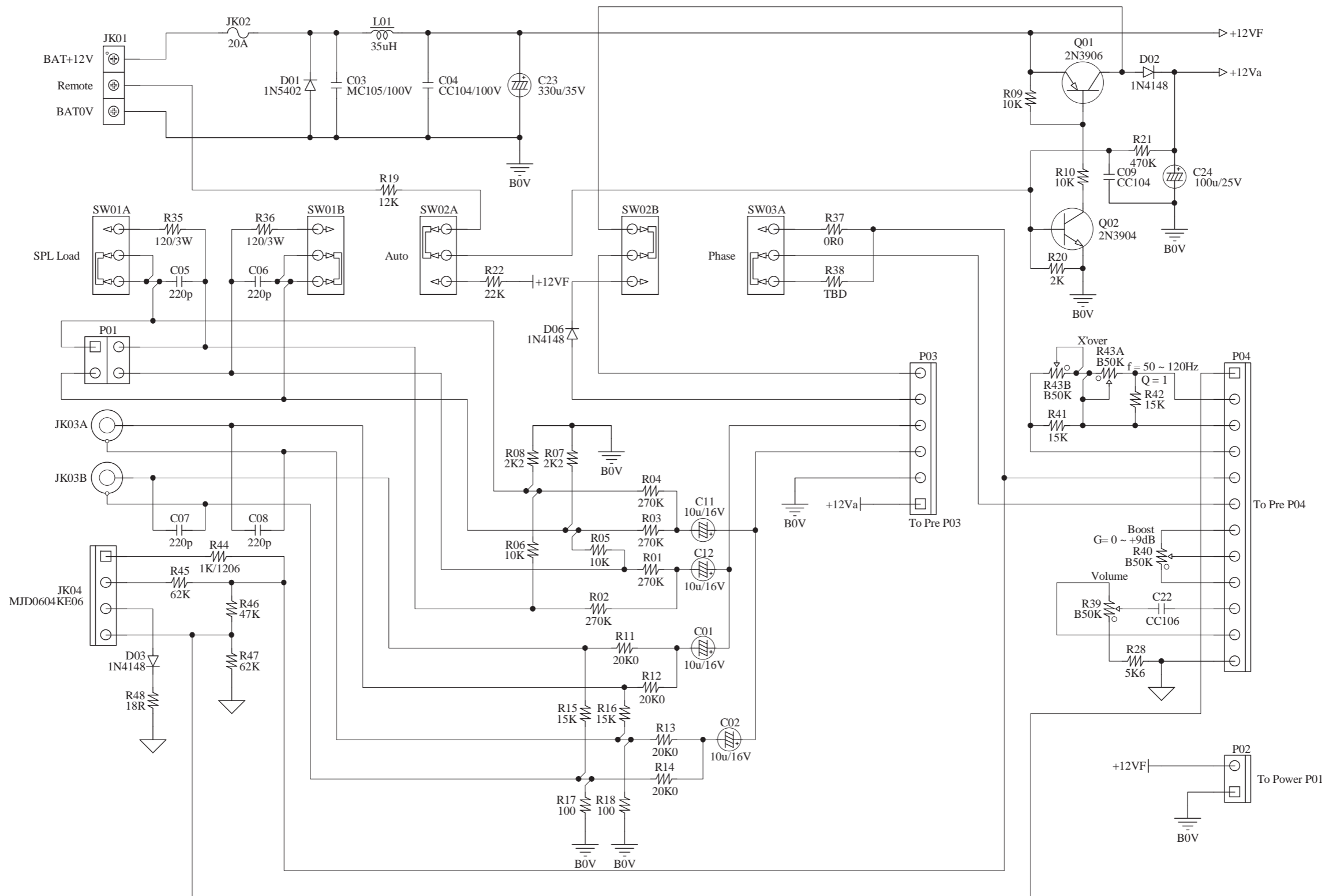
CIRCUIT DIAGRAM - POWER BOARD



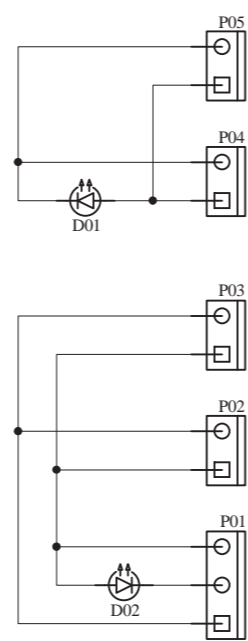
CIRCUIT DIAGRAM - PRE AMP BOARD



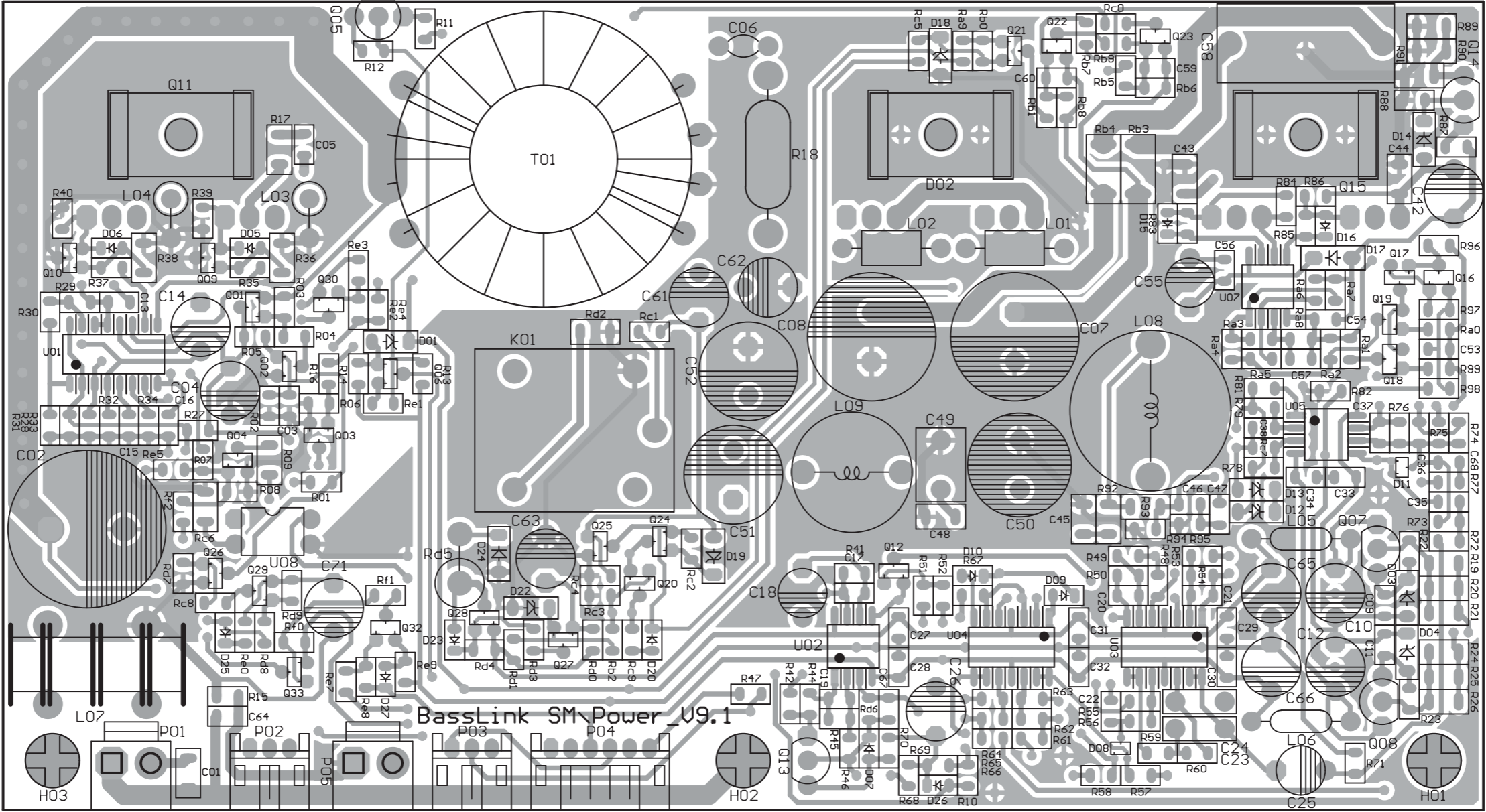
CIRCUIT DIAGRAM - INPUT BOARD



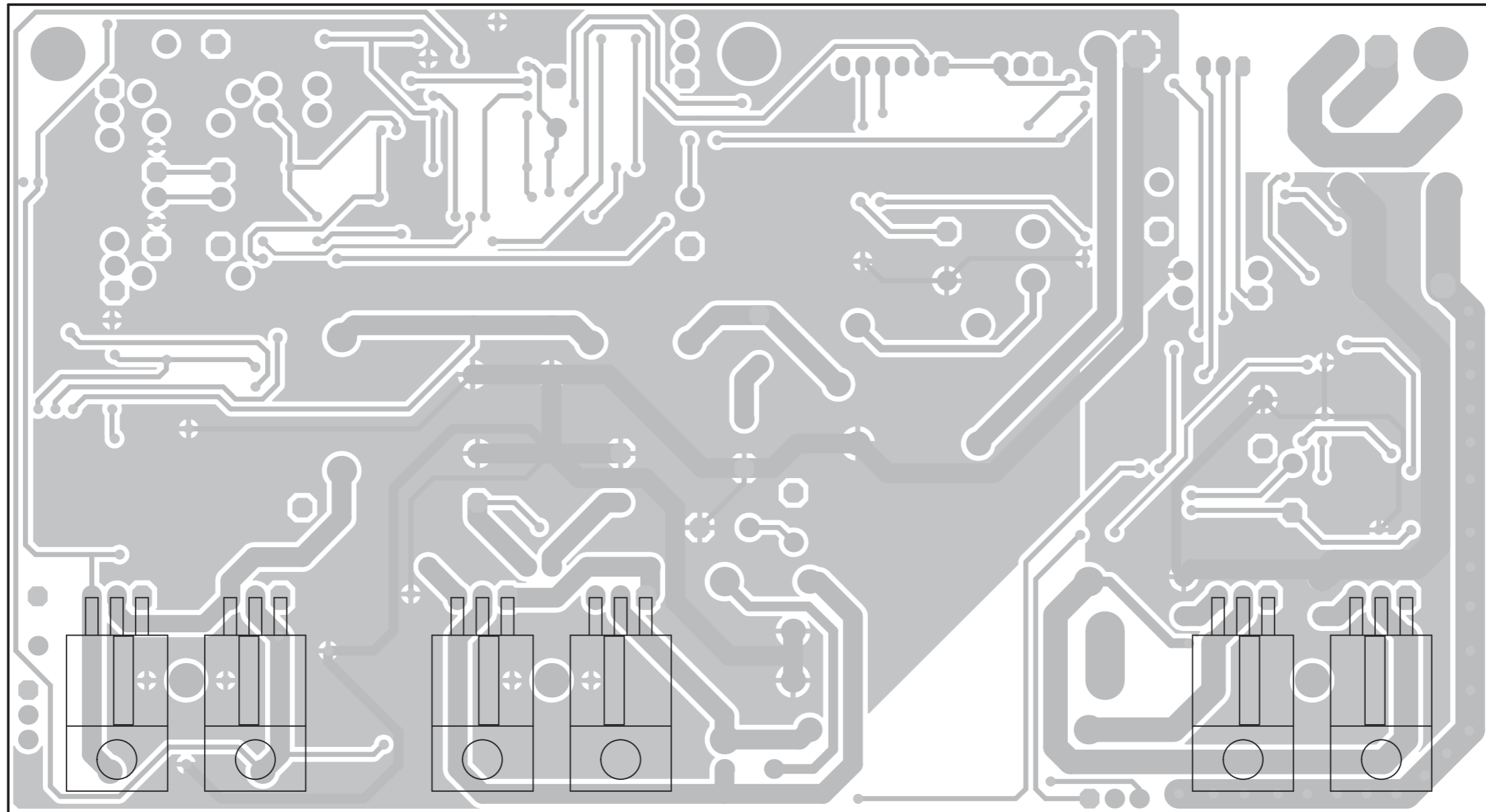
CIRCUIT DIAGRAM - PL BOARD



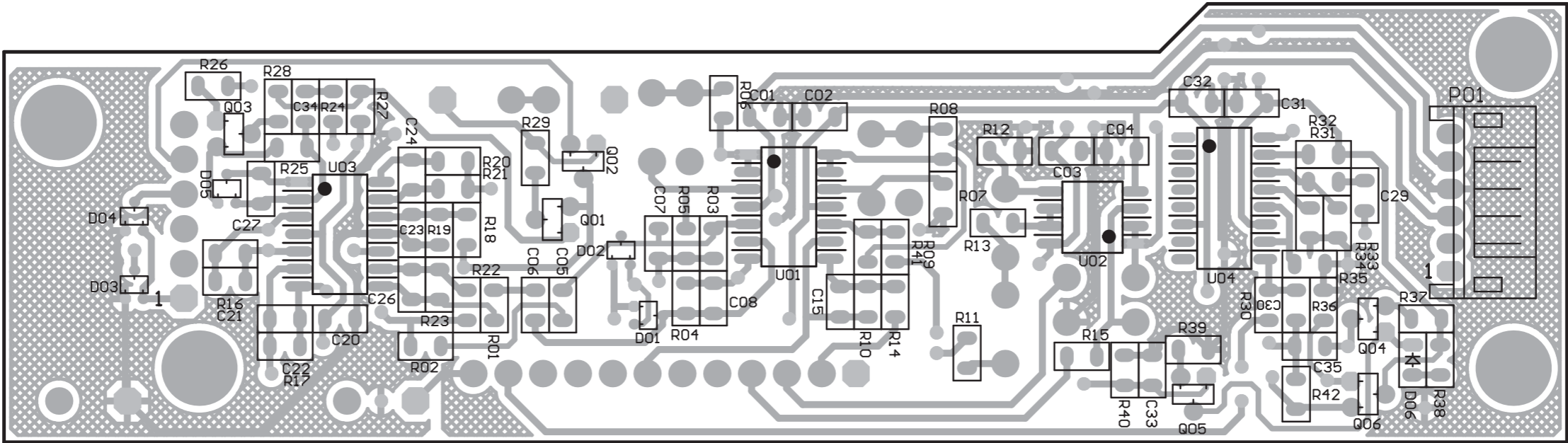
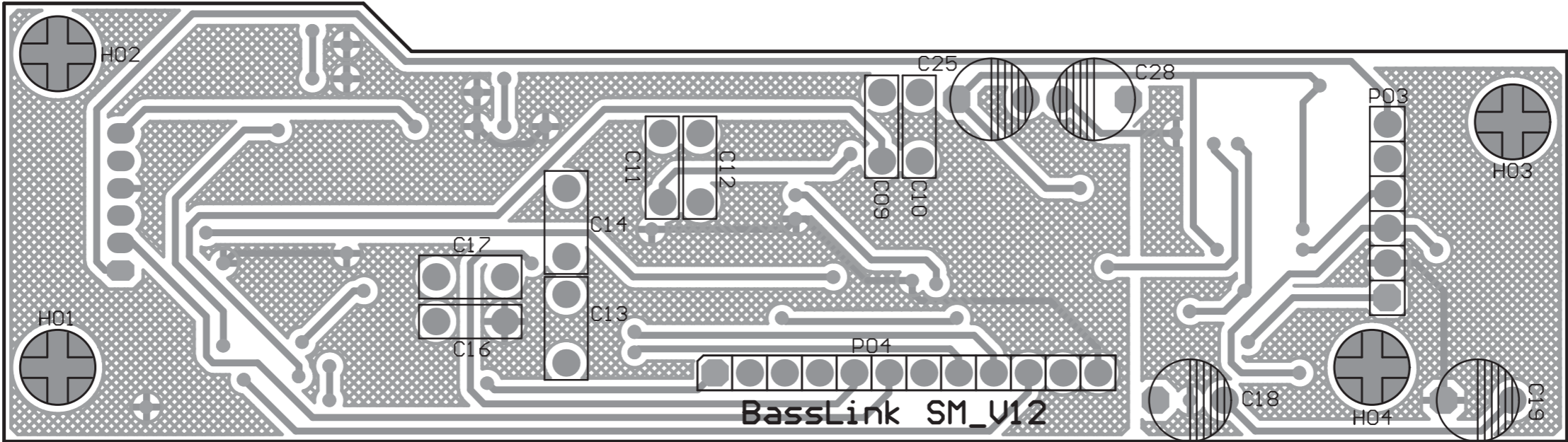
LAYOUT DIAGRAM - POWER AMP BOARD (TOP VIEW)



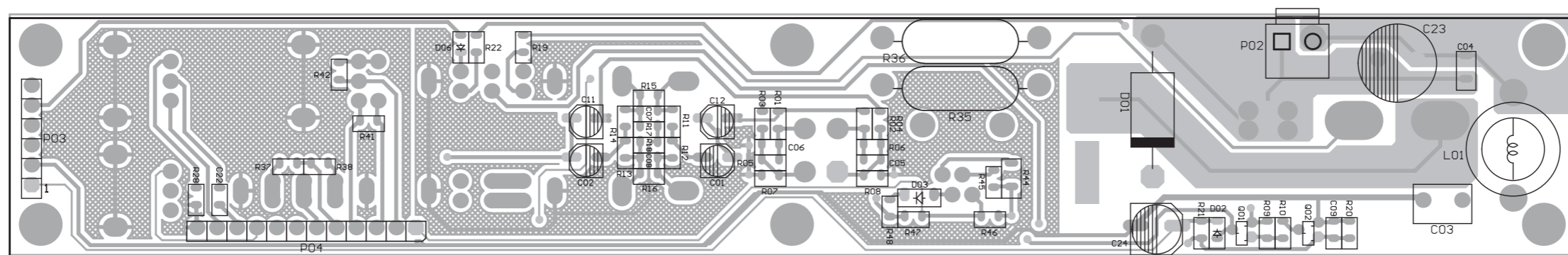
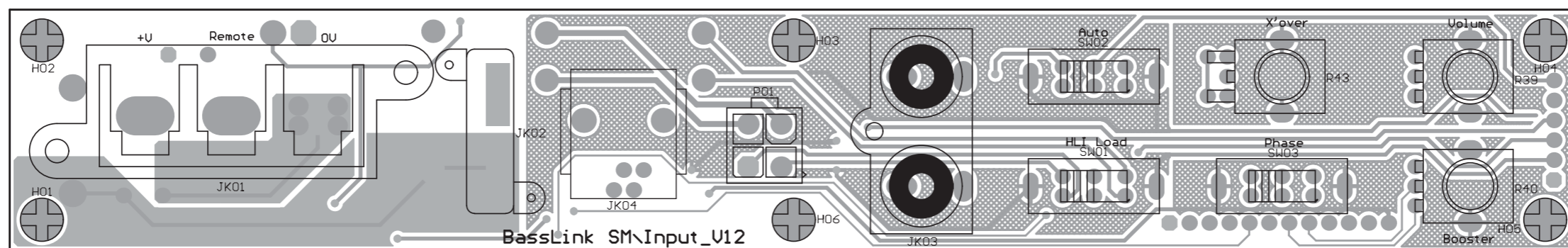
LAYOUT DIAGRAM - POWER AMP BOARD (BOTTOM VIEW)



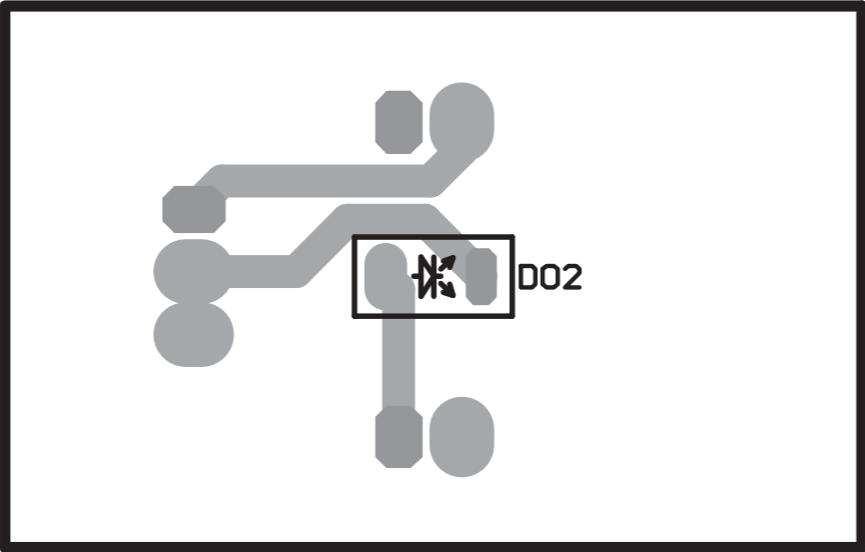
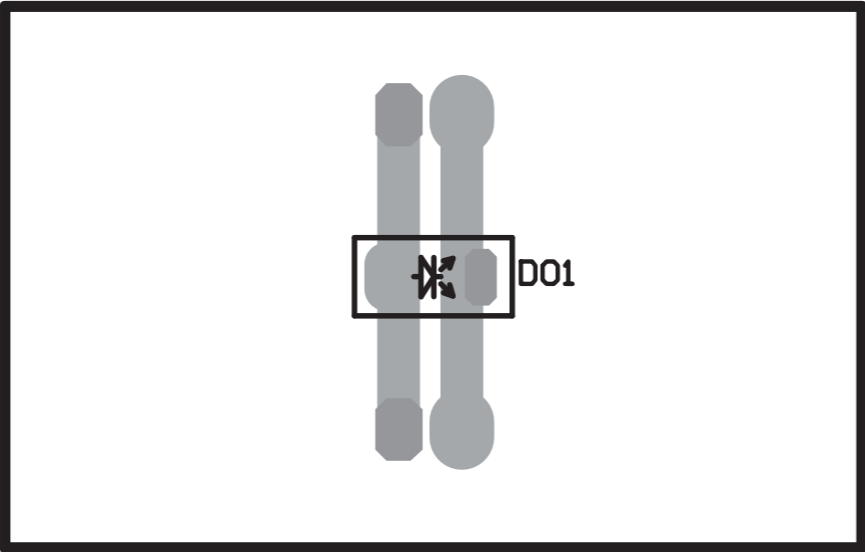
LAYOUT DIAGRAM - PRE AMP BOARD



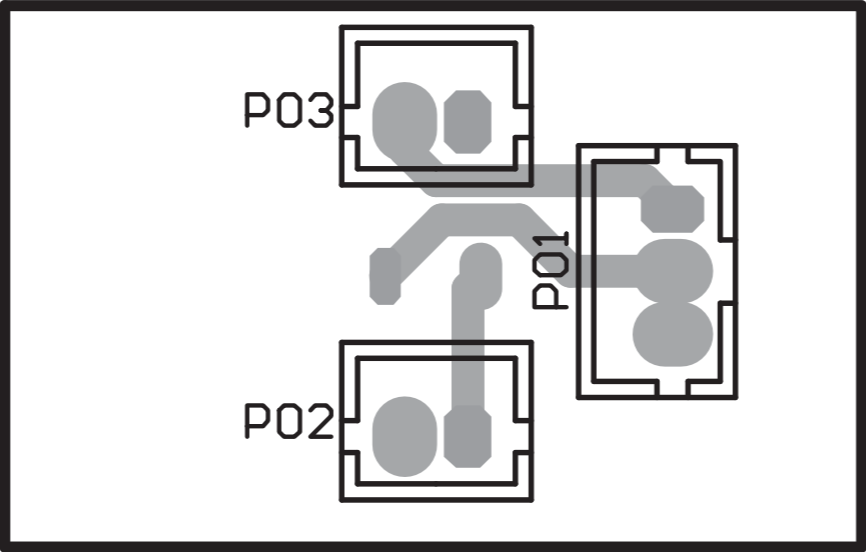
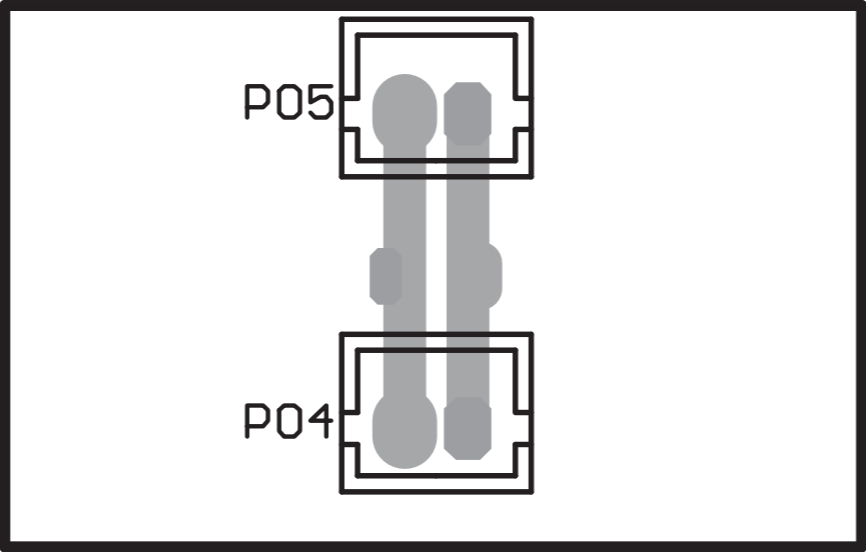
LAYOUT DIAGRAM - INPUT BOARD



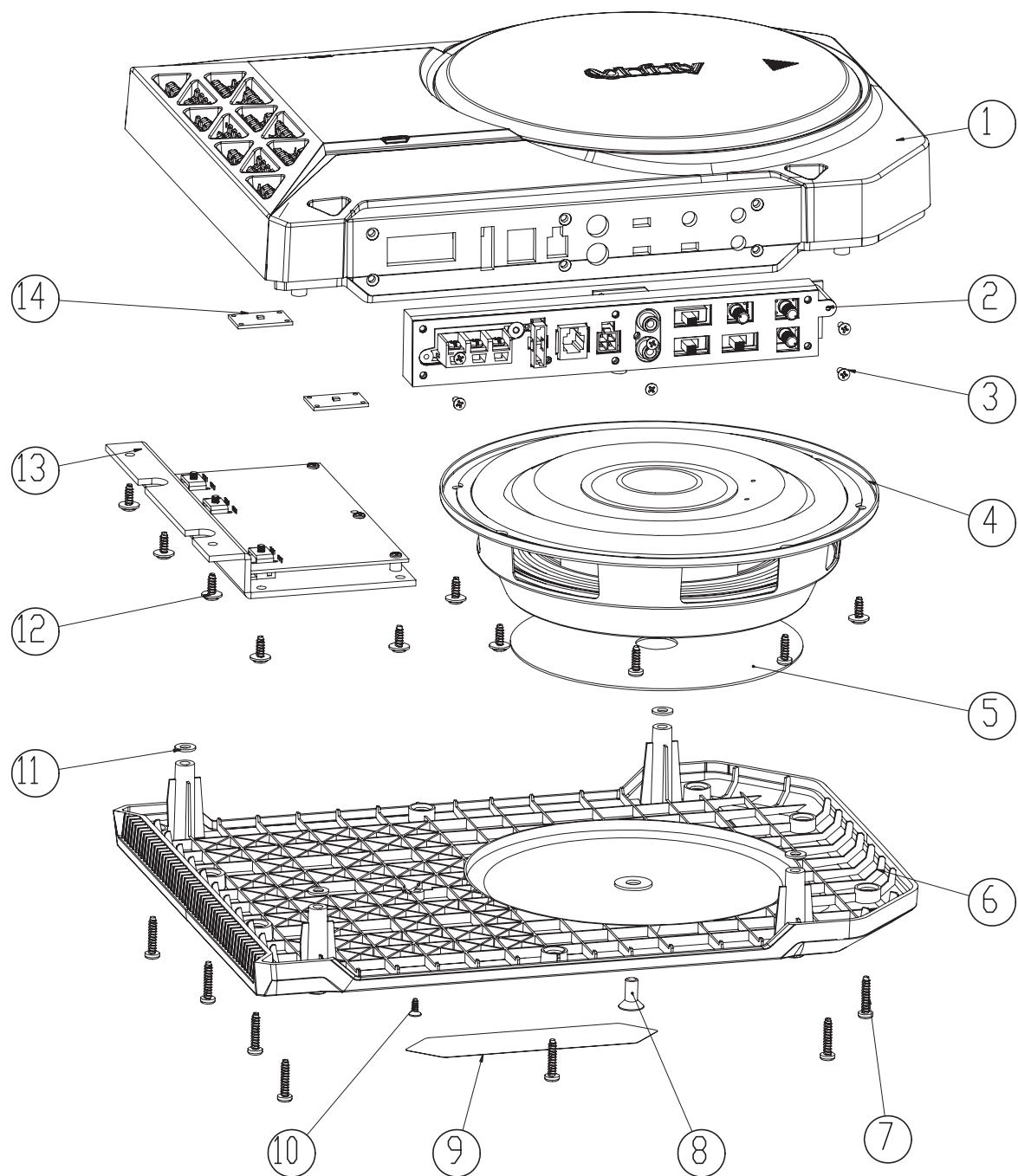
LAYOUT DIAGRAM - PL BOARD



LAYOUT DIAGRAM



MECHANICAL EXPLODED VIEW - INFINITY BASSLINK SM



⑧	Screw	351-BM06014A967-E	1				
⑦	Screw	352-FM04016D469-E	10				
⑥	Bottom Cover	304-ABS-10037-0AAE	1	⑭	PL PCB	051-B10122D00-E	2
⑤	EVA	214-080-10108-0BAE	1	⑬	Power Amp	051-B10122C00-E	1
④	Speaker	062-0008-10154-E	1	⑫	Screw	352-FM04010C1315-E	14
③	Screw	351-BM03010A2141-E	6	⑪	EVA Pad	336-EVA-10207-0BAE	4
②	Input PCB	051-B10122A00-E	1	⑩	Screw	351-BM03012A088-E	1
①	Top Cover Ass'y	303-ABS-10043-0AAE	1	⑨	Label	410-000-10460-E	1
ITEM	NAME	PART NO.	QTY	ITEM	NAME	PART NO.	QTY

INFINITY BASSLINK SM SPARE PARTS LIST

Pos. No.	P/N	SAP Description
1	303-ABS-10043-0AAE	TOP COVER ASSY BassLink SM
4	062-0008-10154-E	8" woofer BassLink SM
2	051-B10122A00-E	PCB ASSY Basslink SM INPUT
6	304-ABS-10037-0AAE	BOTTOM COVER BassLink SM
9	410-000-10460-E	LABEL BassLink SM
13	051-B10122C00-E	PCB ASSY POWER AMP
14	051-B10122D00-E	PCB ASSY PL
	051-B10122B00-E	PCB ASSY PRE AMP
	371-000-10049-E	Screw Pack BassLink SM
	402-000-10314-E	Beauty Box BassLink SM
	162-A020D030-E	HARNESS WIRE (FOR HIGH LEVEL INPUT)