

The ZinAmp SSD PreAmp features the same excellent solid-state pre-amp from the SSD Integrated. The kit is very straightforward to assemble, with one transformer and a single regulated power supply.

The all Class A pre-amp sounds uncommonly warm with very low harmonic distortion; mostly lower second-order. With a low output impedance, you can drive up to two power amps.

The table below shows the parts that are included, depending which kit you have purchased. Information of how to source everything you may need is in this Kit List.

Appendix 1 at the end of this Kit List shows the typical purchase cost of items where they are not included in your particular kit:

	Push-fit wiring w. assembled PCBs	Self-wire w. assembled PCBs	Push-fit wiring w. blank PCBs	Self-wire w. blank PCBs
	🔧💰💰💰💰	🔧🔧💰💰💰	🔧🔧🔧💰💰	🔧🔧🔧🔧💰
Enclosure	✓	✓	✓	✓
Transformers	✓	✓	✗	✗
Internal Wiring	✓	✗	✓	✗
Transistors & Valves	✓	✓	✗	✗
Switches, Pots & Dials	✓	✓	✓	✓
Rear Sockets & Connectors	✓	✓	✓	✓
Components	✓	✓	✗	✗

If you have difficulty finding any of these items online, email parts@zinamp.co.uk and we will help you to find what you need.

Enclosure:



Black Anodise Finish



Silver Anodise Finish

The V6 Pre Amplifier enclosure comprises of:

- 1 x aluminium chassis - pre-drilled, tapped and marked
- 1 x front panel (black or silver)
- 1 x lid (black or silver)
- 1 x adhesive rear decal
- 4 x rubber feet
- 1 bag of M3 x 12mm countersunk slot-head machine screws
- 1 bag M3 plain metal washers
- 1 bag M3 nuts
- 1 bag of M4 19mm nylon stand-offs
- 1 bag of M4 x 10mm nylon cheese-head screws
- 8 x M5 x 20 mm countersunk screws (black or silver)
- 8 x M3 x 5 mm countersunk screws (black or silver)
- 1 x LED Holder
- 1 LED

Transformers:

All Modules are powered by a Single 30VA Transformer

Toroidal 30VA 2x115v to 2x18v

Recommend Airlink [CM0030218](#) from [Airlink Transformers](#)



Internal Wiring:

Push Fit wiring:

Based on Molex KK 254 fittings and comprises of:

- 1 x PreAmp Power Set - [download spec](#)
- 1 x Inputs & Outputs Set - [download spec](#)
- 1 x Audio Path Set - [download spec](#)

Note: Replacement wires damaged during construction require purchase of the corresponding kit. Individual wires are not stocked.

Push-fit wiring requires Molex KK 254 PCB headers to be soldered onto your PCBs -these are supplied with each PushFit wiring set.

NOTE: If you are assembling your own PCBs but are using Push Fit wiring, you don't need to purchase any of the parts listed as 2, 3 or 4 Pole Terminal - these [appear in blue](#) in the Parts List further down.



Self-wiring:

We recommend screw-type terminal block (see module datasheets). You will need to purchase these.



Alternatively, you may choose to assemble your own Molex KK 254 socket-blocks and solder Molex PCB headers to your boards. You will require a Molex crimping tool to make the connections that insert into the socket-blocks.

Cables and Wire:

If you are self-wiring, you will find the wiring specs above a useful reference for planning your cable cuts. Cable types and lengths can be found in these specs, but broadly, you will need the following types of cable:

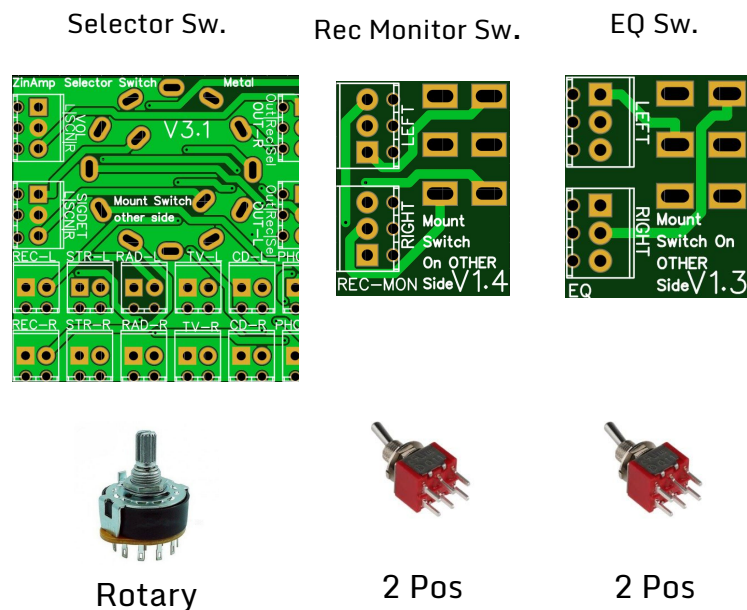
- Single Core Screened - 24AWG (optional)
- 2 Core Screened - 24AWG
- 3 Core Screened - 24AWG
- 2 Core Unscreened (black/red) - 24AWG
- 3 Core Screened (black/green/red) - 22AWG
- Single Core (green) w. silicone flex - 22AWG
- Single Core (red) w. silicon flex - 22AWG

To reduce the amount of cable you need to purchase, you can substitute the Single Core Screened Cable for 2 Core Screened and just use one core. Avoid using both screens for RCA audio inputs as you may introduce cross-talk between left & right channels.

Where devices are supplied, we supply the higher rated Exicon [ECW20N20](#) & [ECW20P20](#).

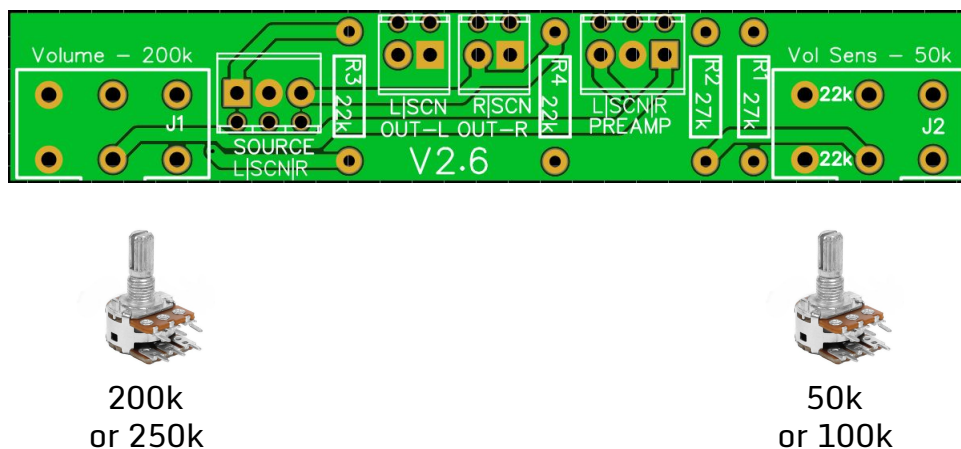
Switches, Pots & Dials:

Switches, Pots and Dials are included in all kits. Also included are the PCBs required to mount each switch and connect it up. None of these switches come pre-mounted on the PCB because the cost of mounting one switch and a row of connectors onto a PCB in a factory is too high to justify passing on to the constructor. The soldering for these items is simple, clearly labelled and is fairly quick for the constructor to do during kit assembly. The PCBs for these switches are shown below:



Volume Control - comprises two potentiometers. Both are provided in all kits and are linear so do not need to be expensive log-pots. The left-hand pot is the volume, the right-hand pot is volume sensitivity. Turning the volume sensitivity to the left decreases the response of the volume control, making the left-pot more logarithmic. Turning the volume sensitivity to the right increases the response of the volume control, making the left-pot less logarithmic. This is useful for different size rooms, where a more or a less responsive volume control may be required.

Volume Pots



Note: In black kits, the selector switch and pots have splined shafts and in silver kits they have round shafts. This is because of the difference in the way the black and silver dials fit to the shaft.

Rear Sockets & Connectors

The rear panel of the ZinAmp V6 comprises the following connectors which are included in all kits.

If you have selected a Push Fit wiring kit, the RCA connections will be ready-soldered to the input cabling. The assembly guide explains how to fit these through the holes in the enclosure.



Self Wiring kits include RCA connectors that can be soldered by the constructor. The assembly guide explains how to do this.

Also included:

1 Fuse Holder



1 IEC Mains AC Connector



Component List:

In kits where blank PCBs are specified, the following components are required. We have tried to consolidate the number of components used across different modules where possible. The list below is sorted by Supplier Part Number and many of these parts are used across more than one PCB module.

If the part number you are searching for is out of stock or unavailable at RS, you can substitute components of similar spec and size. Lead pitch (distance between pins) is the most important consideration for capacitors.

If you need to substitute a component and you are not sure, email: parts@zinamp.co.uk

In most cases, Supplier Part refers to [RS](#)

Value/Spec	Manufacturer	Manufacturer Part	Supplier Part	Part Count
1 Row Jumper	RS-PRO	251-8086	251-8086	1
1.5k	Vishay	MRS25000C1501FCT00	683-3219	4
1.5n	Wima	FKS2 1.5N 100M	122-4235	2
1.5u	Panasonic	ECWFE2W155J	105-1071	2
100k	TE Connectivity	LR1F100K	125-1168	8
100n	Kemet	R46KF310040P1M	126-2250	8
100n	Kemet	R82DC3100Z350K	126-2266	1
100p	Wima	FKP2/100/100/5	484-1978	6

100R	TE Connectivity	LR1F100R	125-1155	5
100R 1W	TE Connectivity	ROX1SJ100R	125-1174	2
100R 3W	TE Connectivity	ROX3SJ100R	214-2623	1
100u 16v	Rubycon	16PK100MEFC5X11	763-9396	2
100u 25v	Nichicon	NRSZ101M25V6.3X11F	737-4159	2
10k	TE Connectivity	LR1F10K	125-1164	4
15k	Vishay	MRS25000C1502FCT00	683-3055	3
1k	Vishay	MRS25000C1001FCT00	683-3165	8
1M	Vishay	MRS25000C1004FCT00	683-4159	2
1u	Panasonic	ECWFE2W105JA	105-1068	2
2 Pole Terminal - Mains	RS-PRO	146-8345	146-8345	6
2 Pole Terminal (self-wire only)	RS-PRO	790-1098	790-1098	18
2.2k	Vishay	MRS25000C2201FCT00	683-3449	9
2.2n	Wima	FKP2/2200/100/5	115-714	2
2.7k	TE Connectivity	LR1F2K7	125-1161	2
2.7R	Vishay	PR01000102708JA100	683-5433	2
20k	TE Connectivity	LR1F20K	125-1166	2
220k	TE Connectivity	LR1F220K	149-060	2
220n	Panasonic	ECWFE2W224J	105-1073	1
22k	TE Connectivity	LR1F22K	125-1167	8
22u 16v	Nichicon	UPW1C220MDD	715-2524	2
240R	TE Connectivity	LR1F240R	148-354	2
27k	TE Connectivity	LR1F27K	148-837	2
3 Pole Terminal (self-wire only)	RS-PRO	790-1092	790-1092	27
3 Row Jumper	Harwin	M20-9980346	745-7046	2
3.9k	Vishay	MRS25000C3901FCT00	683-3641	2
39k	TE Connectivity	LR1F39K	148-871	2
4 Pole Terminal - Mains	RS-PRO	146-8347	146-8347	1
4 Pole Terminal (self-wire only)	RS-PRO	790-1102	790-1102	3
470p	Wima	FKP2/470/100/5	484-2016	2
470u 25v	Nichicon	UVY1E471MPD	739-5285	2
47n	Epcos	B32529C1473K000	210-9020	2
5.1v	Nexpera	BZX79-B5V1,113	508-359	8
50v 1A	Vishay	1N4001-E3/54	628-8931	2
56R	Vishay	MRS25000C5609FCT00	683-4203	2
8.2k	TE Connectivity	LR1F8K2	148-714	2
82R	Vishay	MBB02070C8209FCT00	506-4784	2
9.1v	Nexperia	BZX79-C9V1,113	544-4455	2
BC327	On Semi	BC32716BU	761-9819	12
BC337	On Semi	BC33740BU	761-3943	6
GBPC3504W T0	HY	GBPC2510W	917-8815	1
KBP310	HY	GBU2510	923-5472	1
Shorting Link	RS-PRO	251-8575	251-8575	2
SWITCH-DPDTES	RS-PRO	401-680	401-680	2
U1	Alpha	See Kit List	See Kit List	1

Appendix 1 - Parts Purchase Cost Estimator

These are the items that need to be purchased with each type of kit. These costs are estimates based on Feb 2020 prices in the UK and should be within +/-5%.

	Push-fit wiring w. assembled PCBs	Self-wire w. assembled PCBs	Push-fit wiring w. blank PCBs	Self-wire w. blank PCBs
Transformers			£20	£20
Wiring		£20		£20
Components			£70	£90
TOTAL	£0	£20	£90	£130

Add the respective total to the cost of your selected kit to give a total build cost - within +/-5%

We cannot guarantee any of these prices, but do email parts@zinamp.co.uk if you believe these are outside of 5%. We will always try and help you source parts as cheaply as possible..