

You have received an Induction Loop Array System from Ampetronic. An Array System provides a solution where a simple loop around the room perimeter will not work. Arrays are the standard solution for buildings with metal structure or reinforcements, or for covering large areas. Arrays can also dramatically decrease the ‘spill’ of the magnetic signal outside of the room, allowing induction loops to be installed in adjacent rooms, and providing an improved level of confidentiality. Arrays can also be used to change the way two loops interfere with each other, providing ways of solving even the most complex installation problems.



BEFORE CONNECTING YOUR ARRAY SYSTEM,
CONSULT THE SP5 HANDBOOK PROVIDED WITH THIS KIT

Loop Designs

To purchase and use an Array System you *must* have a suitable loop layout design for the two cable arrays. If you provide a design, Ampetronic will check it for free, otherwise Ampetronic or your distributor can supply a design for a nominal charge. You can carry out your own loop design following Ampetronic guidance (please ask for our loop design guidance notes).

An array needs a loop design specific to the area to be installed. It is very important that this loop design takes into consideration:

- The intended use of the system
- Structural metalwork near to the system
- Requirements for low spill performance
- Dimensions and layout of the area
- Location for installation of the loop cables

Contents of the Array System Kit

Array System Contents

This Ampetronic Array System contains everything you need for driving an array (cables must be purchased separately).

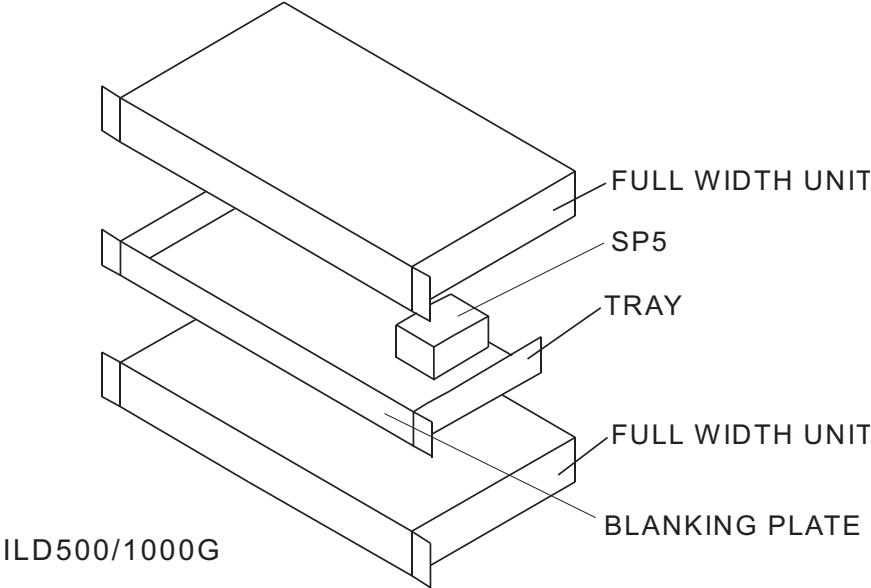
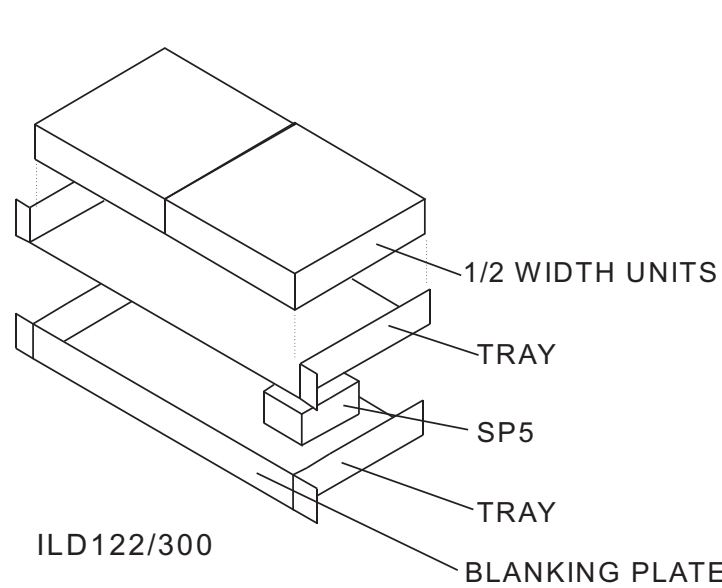
Contents:

- 2 x ILD Loop Amplifier
- 1 x SP5 Phase shifter
- +/-15v power cable to connect to amplifier auxilliary power outlet
- Audio connection cables to connect SP5 to slave I/O ports of the two amplifiers
- Optional rack mount kit

Array Systems from Ampetronic

Standard	With rackmount	Amplifiers
A122	A122-RM	2 x ILD122
A300	A300-RM	2 x ILD300
A500	A500-RM	2 x ILD500
A1000G	A1000G-RM	2 x ILD1000G
Combined system ILD1000G plus combiners (a customised solution for very large areas)		

Rack Mounting an Array System



The following diagrams show the connections for an Array System.

The SP5 must be connected to the Slave I/O of both amplifiers with the provided interconnect cables.

The SP5 is powered from the +/-15v power supply on the amplifier rear panel using the provided cable.

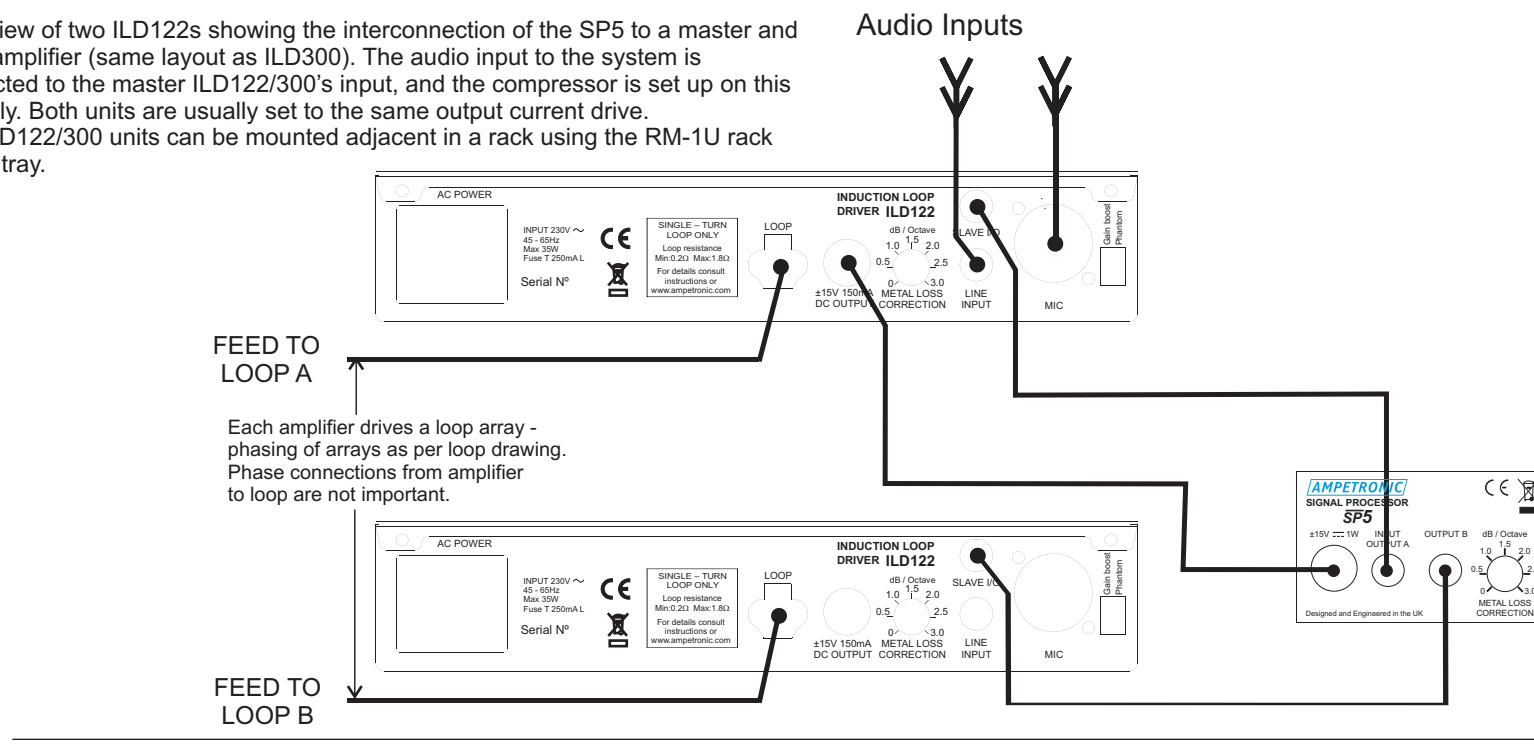
Inputs must all be connected to the 'Master' amplifier inputs.

Metal loss control must be adjusted on the SP5, **NOT** on the individual amplifiers which must be set to 0dB/oct.

The two loop arrays must be connected to the two amplifiers as shown.

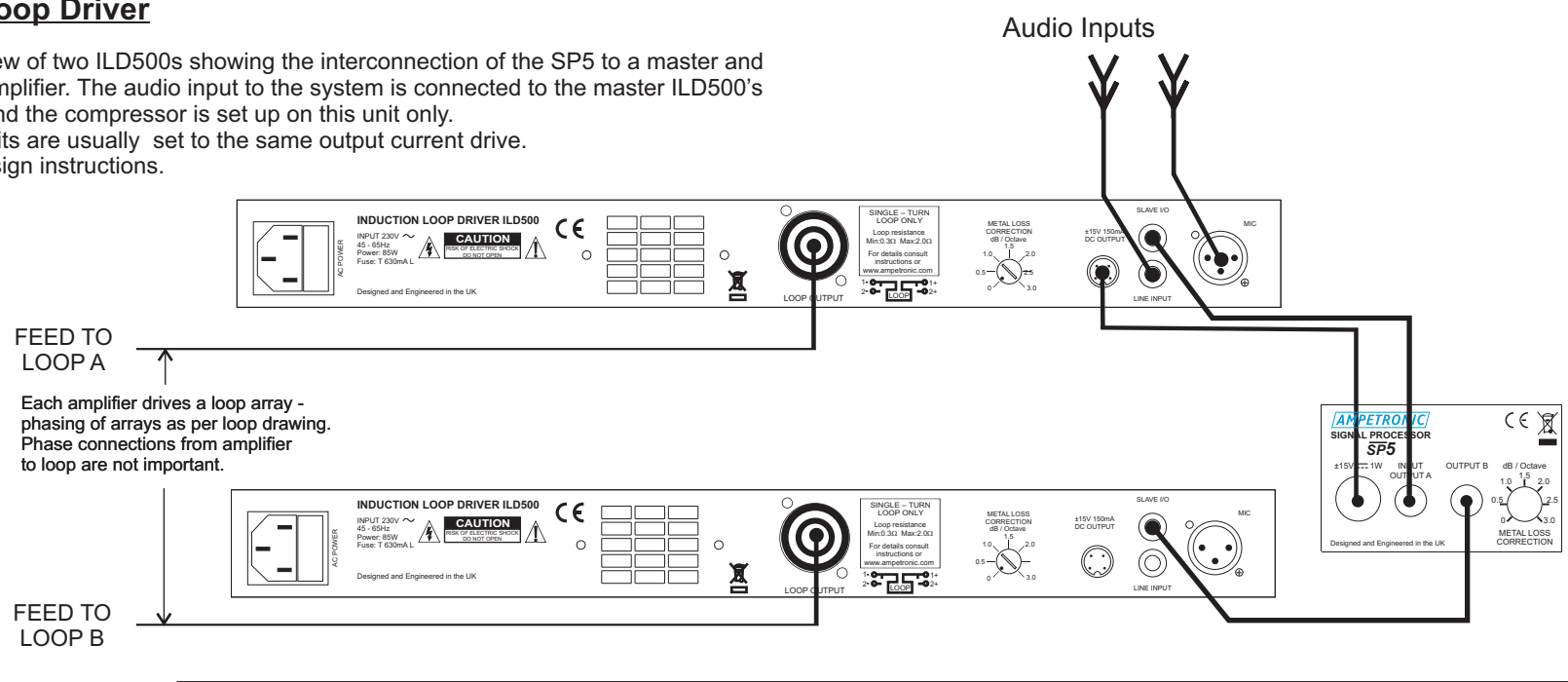
ILD122 / ILD300 Loop Driver

Rear view of two ILD122s showing the interconnection of the SP5 to a master and slave amplifier (same layout as ILD300). The audio input to the system is connected to the master ILD122/300's input, and the compressor is set up on this unit only. Both units are usually set to the same output current drive. Two ILD122/300 units can be mounted adjacent in a rack using the RM-1U rack mount tray.



ILD500 Loop Driver

Rear view of two ILD500s showing the interconnection of the SP5 to a master and slave amplifier. The audio input to the system is connected to the master ILD500's input, and the compressor is set up on this unit only. Both units are usually set to the same output current drive. See design instructions.



ILD1000G Loop Driver

Rear view of two 1000Gs showing the interconnection of the SP5 to a master and slave amplifier. The audio input to the system is connected to the master ILD1000Gs input, and the compressor is set up on this unit only. Both units are usually set to the same output current drive. No space is needed between adjacent ILD1000G units in a rack. See design instructions.

