SAFETY INFORMATION

Before you use this TW AUDiO product, read the manual carefully.

Loudspeakers can be checked and stamped according to BGV C1 by official departments. For more information contact TW AUDiO at info@twaudio.com or +49 (0) 71 41 - 48 89 89 0

GENERAL

The VERA S18 is a flyable band-pass subwoofer loudspeaker, equipped with single 18" driver inside the enclosure.

VERA S18 can be used with 2 or 4 wires speaker cables.
VERA S18 is driven from PIN2 (Fig. 4). PIN1 is hardwired in NL4 sockets for easy forwarding the signals (for example: signal for full-range speaker)

VERA S18 as default is available in black colour and polyurethane coating. Any different RAL color can be requested (warnex structure paint)

VERA S18 is designed to be driven with a DSP equipped amplifier. TW AUDiO provides presets for the Powersoft K3DSP AESOP or LAB PLM system amplifiers. As an external controller for other amps it's recommended to use the LAKE LM26 or LM44.

VERA S18 always requires a dedicated preset loaded on the amplifier/controller. Do never use the VERA S18 without this preset. Always be aware to have the correct preset loaded on your system amplifier before connecting the loudspeaker. Ensure that the internal connections in the amplifier rack are identical to shown on Fig 2.

BE AWARE.There are different possibilties to connect VERA S18 to APL4/amplifier. In standard configuration (sockets at the rear) S18 is driven from PIN2, while front side sockets deliver signal on PIN1. Study FIG 4. carefully.

COMBINATION WITH OTHER PRODUCTS

VERA S18 can be combined with any TW AUDiO full-range products. According to that many different presets are available (study FIG 1 for more details)
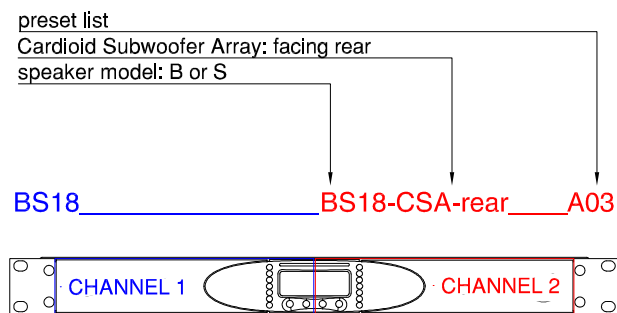Be sure about proper time alignment.

VERA S18 can be groundstacked or combined into VERA10 family array (VERA10, S15, L24). There are different hardware accessories available:
- RF300 - rigging frame to fly S18 (in addition VERA RFLEX is required)
- VERA RFLEX - adapter to extend rearside of RF300
- BLS - boxlink-set to connect VERA S18s together, one below the other

Please see system examples papers on www.twaudio.com for system combinations and setup examples.

If you have any questions about your product don't hesitate to contact TW AUDiO on support@twaudio.com or by phone +49 (0) 71 41 - 48 89 89 56

B18		
Frequnecy range	[Hz]	32 - 160
Power pgm/peak	[W]	2400 / 4800
Impedance	[Ohm]	8
Dispersion		standard or cardioid by CSA
Sensitivity	[dB]	96
max SPL	[dB]	132
Dimensions	[mm]	606x506x800
Weight	[kg]	44,5

FIG 1. PRESETS / REFERED TO PRESETLIST A03

preset list
Cardioid Subwoofer Array: facing rear
speaker model: B or S

BS18_____ BS18-CSA-rear_____A03

CHANNEL 1   CHANNEL 2

PRESET NAME	
CHANNEL 1	CHANNEL 2
BS18	
BS18_____	BS18_____A03
BS18_____	BS18-CSA-rear_____A03
BS18_____	M8-cut_____A03
BS18_____	M10-cut_____A03
BS18_____	M12-cut_____A03
BS18_____	M15-cut_____A03
BS18_____	C12-cut_____A03
BS18_____	C15-cut_____A03

FIG 2. APL4-K AMPLIFIER RACK

OUT 1   OUT 2   OUT 3   OUT 4
PIN1 :C1   PIN1 :C2   PIN1 :C3   PIN1 :C4
PIN2 :C2   PIN2 :C1   PIN2 :C4   PIN2 :C3

LINK ON OFF   Keeping ON position causes hardwired connection between analog INPUT 1 and 2. Be aware of the consequences.

AES/EBU ANALOG   INPUT SELECTION, There is no possibility to forward AES3 signal through XLR connectors, USE AESOP interface. Read K3DSP manual carefully.

IMPORTANT:
FOR AMP CONNECTORS:
PIN1+ is bridged to PIN2+
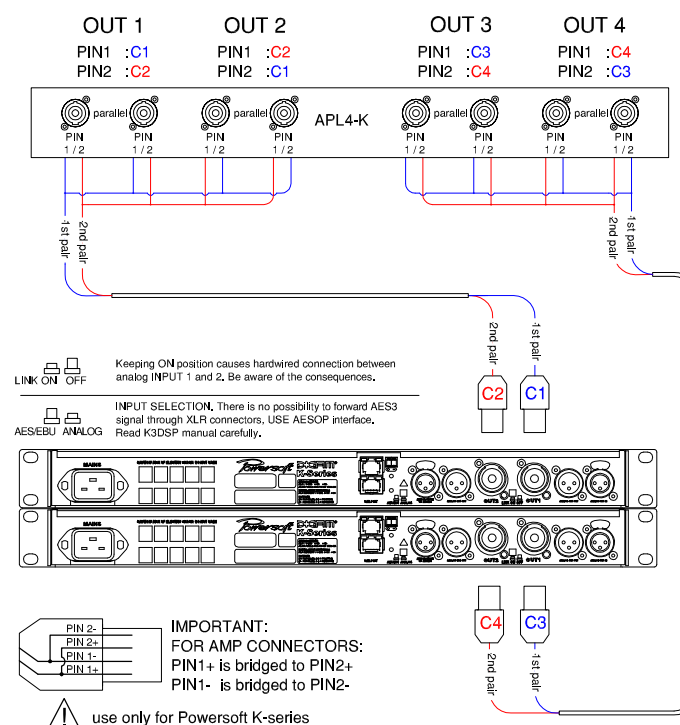PIN1- is bridged to PIN2-

⚠ use only for Powersoft K-series

FIG 4. INTERNAL WIRING DIAGRAM
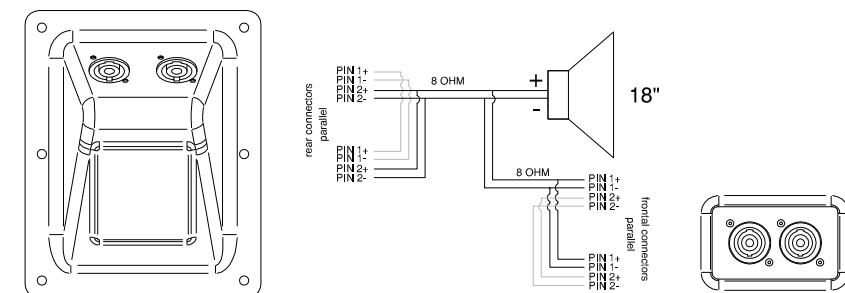
FIG 5. S18 - CONNECTION TO AMPLIFIER SYSTEM

for rear sockets
4pin / pin2 in use
4pin
ALTERNATIVE CONNECTION
2 or 4pin / pin1 in use
for front sockets
4 wire cable (4x4mm2)
4pin

up to 2x S18
on one amp channel

OUT 1   OUT 2   OUT 3   OUT 4
CH 1 IN USE
(NOT IN USE)

ONE AMP. CHANNEL IS USED
for first amplifier use always OUT 2 to connect S18 in standard operation
for second amplifier use OUT 4 to connect S18 in standard operation

FIG 6. S18 - CSA CONNECTION

RF300 + RFEX + BLS
driven from pin2 amp channel 1
driven from pin1 amp channel 2
driven from pin2 amp channel 1

OUT 1   OUT 2   OUT 3   OUT 4
CH 1 FRONT   CH 2 REAR
(NOT IN USE)

TWO AMP. CHANNELS ARE USED
for first amplifier use always OUT 2 to connect:
- 2x S18 facing front and
- 1x S18 facing rear
for second amplifier use always OUT 4 to connect
- 2x S18 facing front and
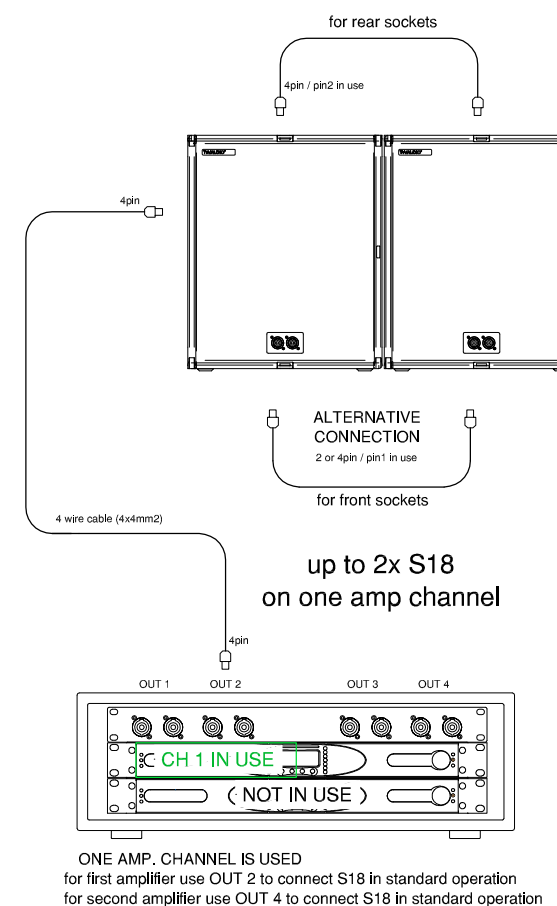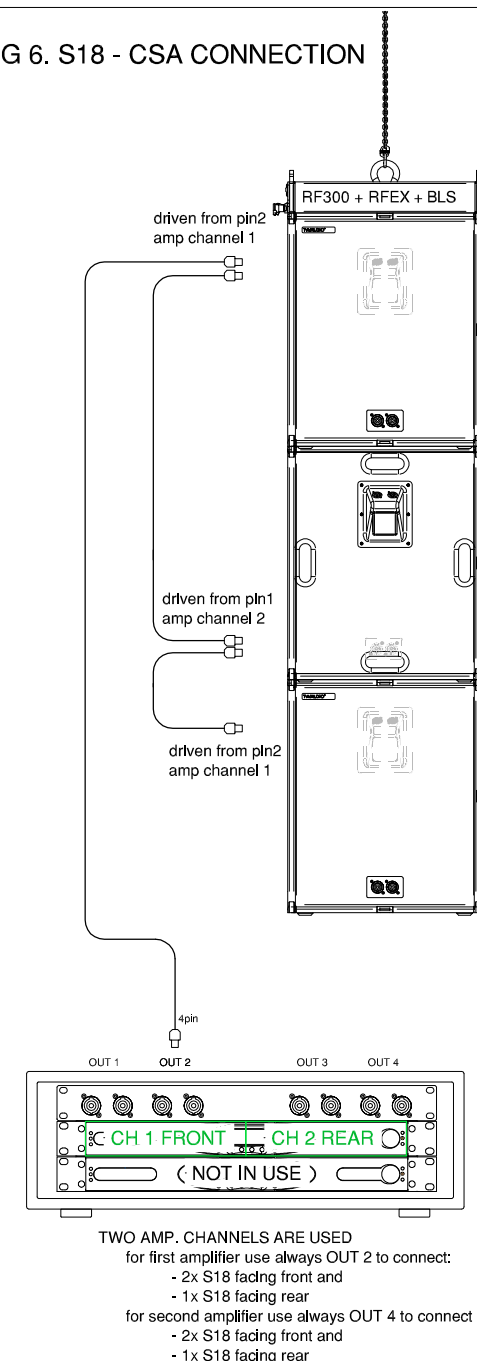- 1x S18 facing rear

*NOTE:

- for long term high SPL requirements drive two S18s on one POWERSOFT K3DSP (4 OHM operation)
- for lower SPL requirements, it is possible to drive 3 to 4 boxes on POWERSOFT K3DSP(2,6 / 2 OHM operation)