

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 S15P is a flyable bass-reflex subwoofer loudspeaker, equipped with single 15" driver unit. In addition, the S15P is equipped with intelligent passive crossover PWS15 with many operation modes possible.

VERA S15P as default is available in black colour and polyurea coating. Any different RAL color can be requested (warnex structure paint)

PWS15 (crossover module) is designed to be operated in 3 different modes:
 - MODE1: active - the crossover is bypassed, requires external processing.
 - MODE2: - with 1st order low-pass filter for 15" driver and top 8 Ohm loudspeaker connected in parallel. (B15P+M15, B15P+M12)
 - MODE3: with 2nd order low-pass filter for 15" driver and 8 Ohm loudspeaker connected to HP (high-pass) output socket.

VERA S15P in MODE1 always requires a dedicated preset loaded on the amplifier/controller when is use with TW AUDIO top loudspeaker. Do never use the VERA S15P in MODE1 without this preset. Always be aware to have the correct preset loaded on your system amplifier before connecting the loudspeaker.

VERA S15P in MODE2 and MODE3 can be used with any professional amplifier available on the market. You may note that TW AUDIO offers presets for these modes as well. These presets mainly protect system in terms of thermal and peak power.

COMBINATION WITH OTHER PRODUCTS

VERA S15P is designed as 4 Ohm system in contrast to 8 Ohm top loudspeaker connected to PWS15. For best level matching this design allows VERA S15P takes twice the power in comparison to 8 Ohm top loudspeaker connected in parallel.

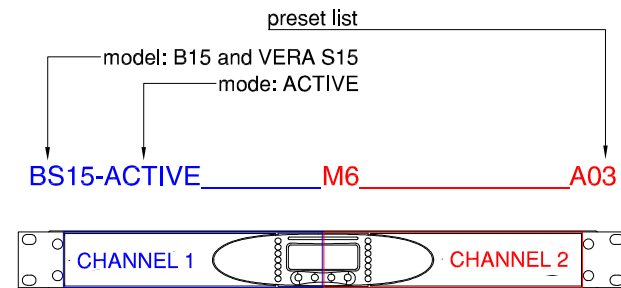
VERA S15 can be groundstacked or combined into VERA10 family array (VERA10, S18, L24). There are different hardware accessories available:
 - VERA RF300 - S15 flying frame (also use for VERA10, S18, L24)
 - VERA GF10 - ground frame

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

VERA S15P	TECHNICAL DATA	
Frequency range	[Hz]	40 - 1500 (without processing)
Power pgm/peak	[W]	1200 / 2000
Impedance	[Ohm]	active: 4 Ohm, passive: 2,5 Ohm
Dispersion		omni
Sensitivity	[dB]	94
max SPL	[dB]	127
Dimensions	[mm]	506x 440x 560
Weight	[kg]	23

FIG 1. PRESETS / REFERED TO PRESETLIST A03



PRESET NAME	
CHANNEL 1	CHANNEL 2
BS18	
BS15-PASSIVE+M8	BS15-PASSIVE+M8_A03
BS15-PASSIVE+M10	BS15-PASSIVE+M10_A03
BS15-PASSIVE+M12	BS15-PASSIVE+M12_A03
BS15-PASSIVE+M15	BS15-PASSIVE+M15_A03
BS15-ACTIVE	M6-cut_A03
BS15-ACTIVE	M8-cut_A03
BS15-ACTIVE	M10-cut_A03
BS15-ACTIVE	M12-cut_A03
BS15-ACTIVE	M15-cut_A03

FIG 2. FREQUENCY RESPONSE DEPENDING ON MODE

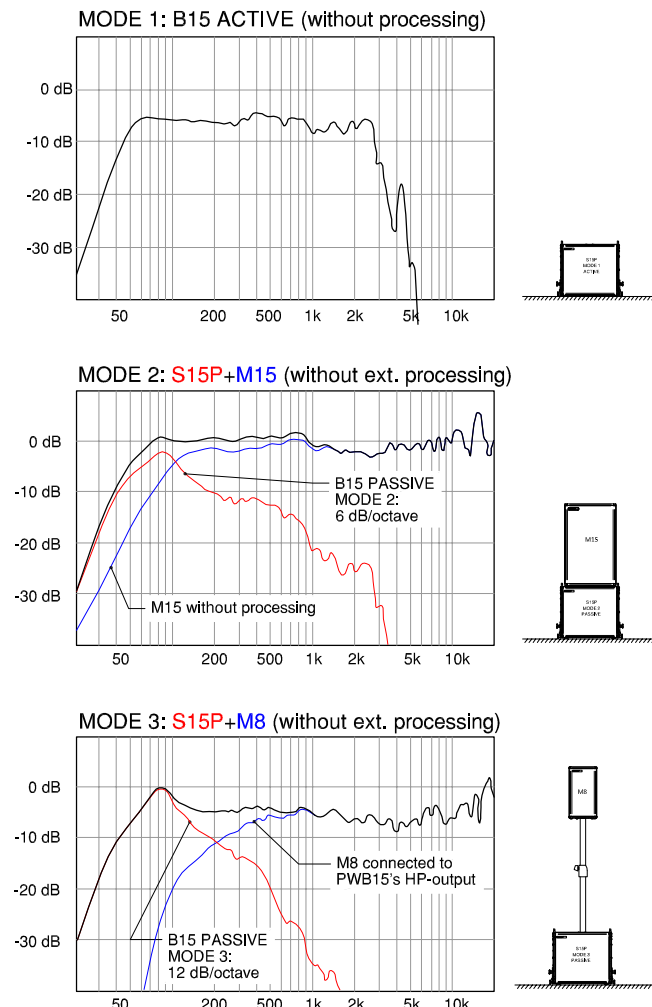
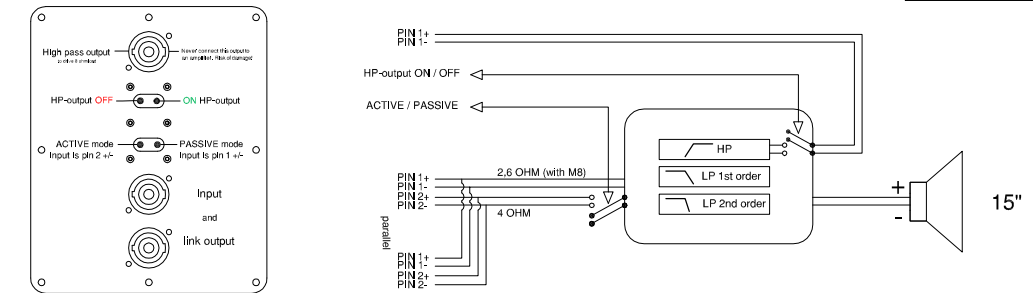


FIG 3. INTERNAL WIRING DIAGRAM



depending on HP-Output position and load there is change between 1st and 2nd low-pass filter used for 15" driver

FIG 4. PWS15 OPERATION MODES

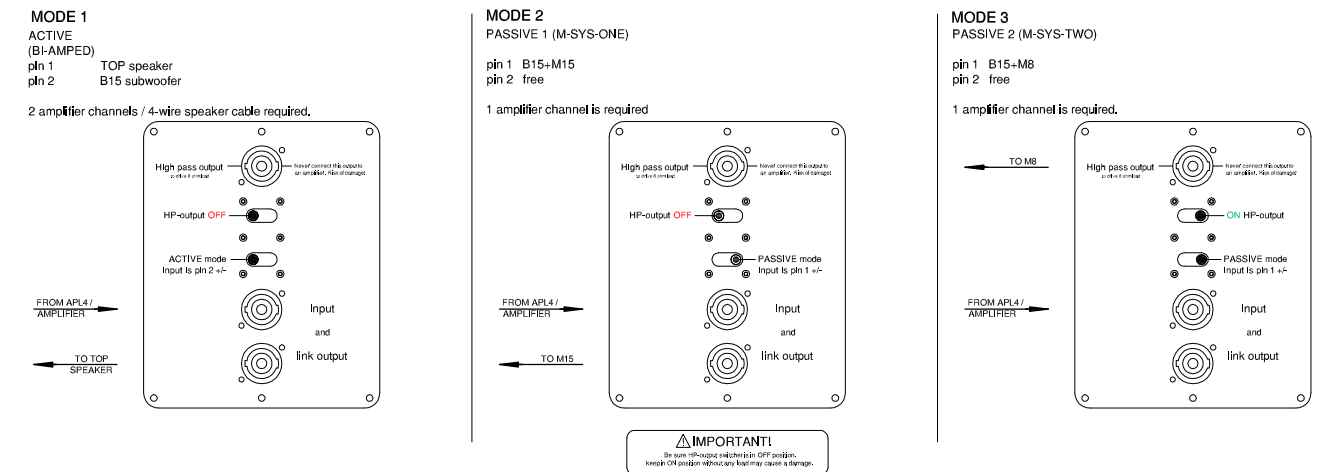
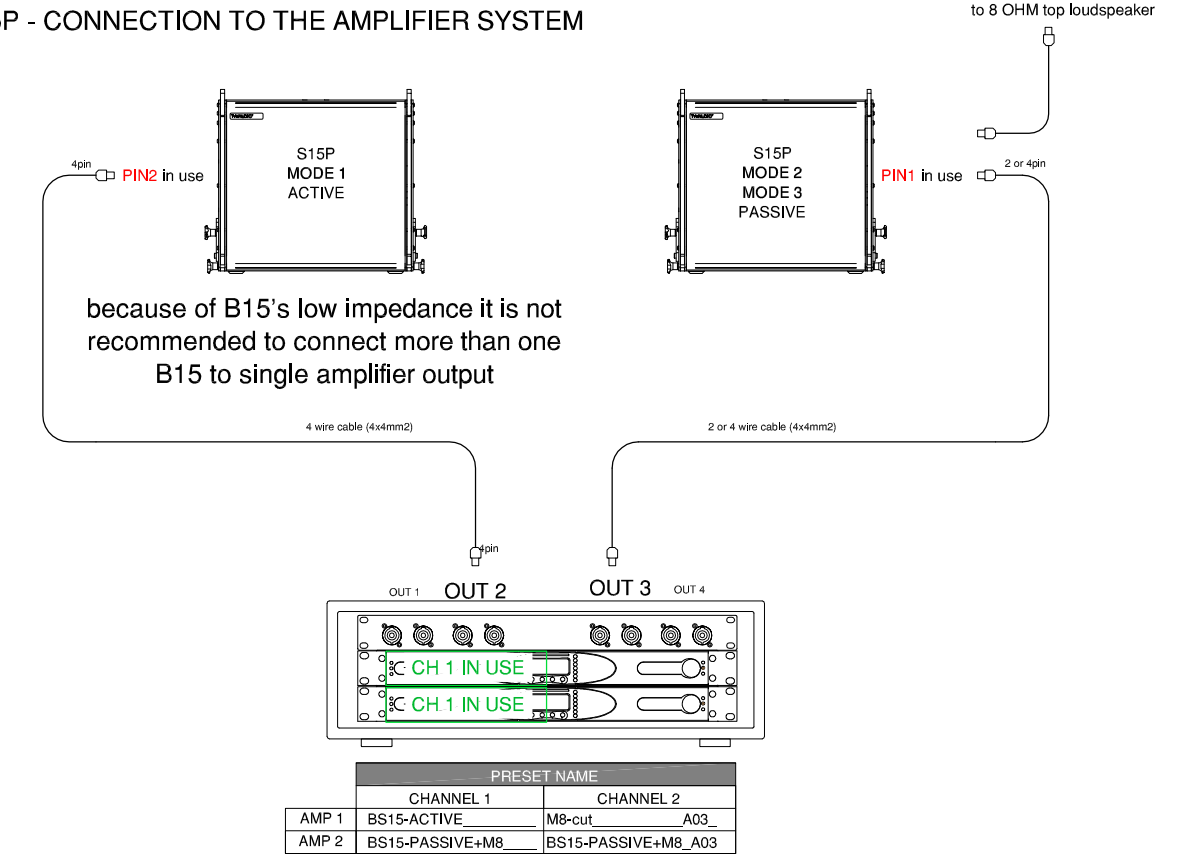


FIG 5. S15P - CONNECTION TO THE AMPLIFIER SYSTEM



***NOTE:**
 For lower SPL requirements it is possible to connect in parallel 2x S15 in MODE 1 to one amp's channel (2 Ohm operation)
 For standalone use:
 for first amplifier, first channel use OUT2 on APL4. B15 ACTIVE is driven from PIN2.
 For combination with top
 TW AUDIO presets are designed that first channel drives LF loudspeaker/ drivers while second amplifier channel M/HF source. For this combination always use OUT2 for first amplifier and OUT4 for second amplifier.