

**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 B15P is a bass-reflex subwoofer loudspeaker, equipped with single 15" driver unit. In addition the B15P is equipped with intelligent passive crossover PWB15 with many operation modes possible.

B15P as default is available in black colour and warnex structure paint. Any different RAL color can be requested.

PWB15 (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.

B15P in MODE1 always requires a dedicated preset loaded on the amplifier/controller when is use with TW AUDIO top loudspeaker. Do never use the B15 in MODE1 without this preset. Always be aware to have the correct preset loaded on your system amplifier before connecting the loudspeaker.

B15P 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**

B15P is designed as 4 Ohm system in contrast to 8 Ohm top loudspeaker connected to PWB15. For best level matching this design allows B15 takes twice the power in comparison to 8 Ohm top loudspeaker connected in parallel.

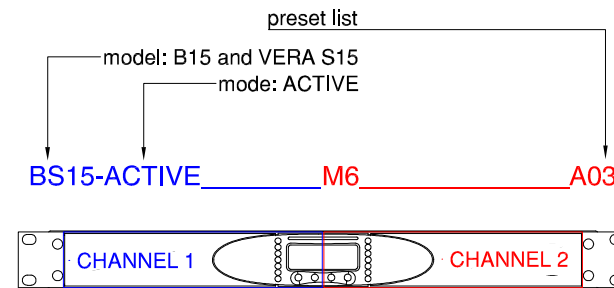
B15P can only be groundstacked. There is no hardware allows to fly this subwoofer. There is second flyable enclosure variant: VERA S15P, find more on www.twaudio.de website.

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

B15P		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

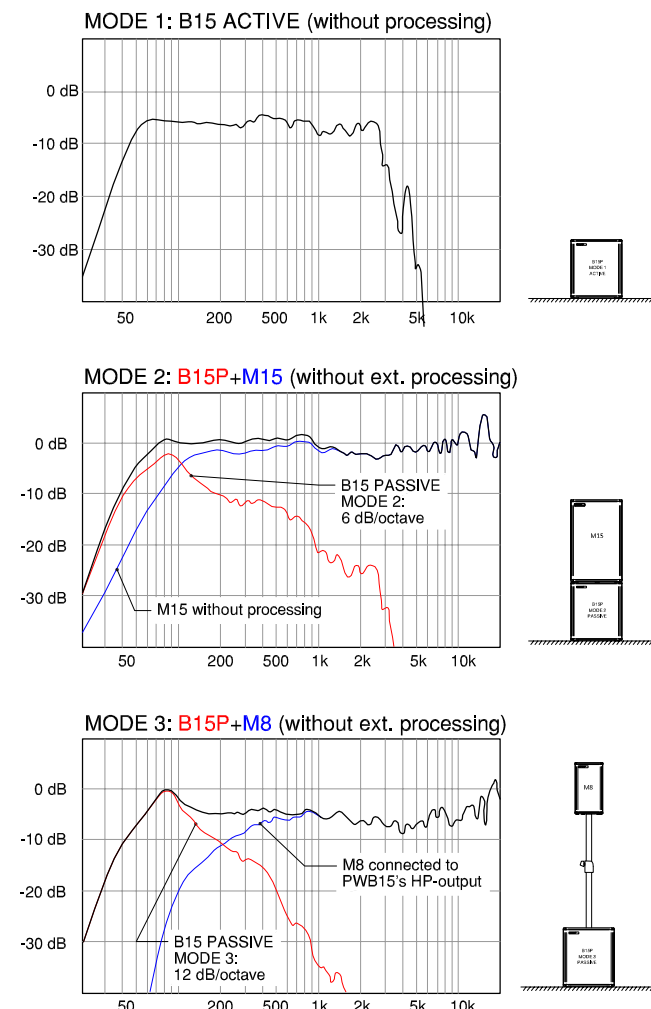
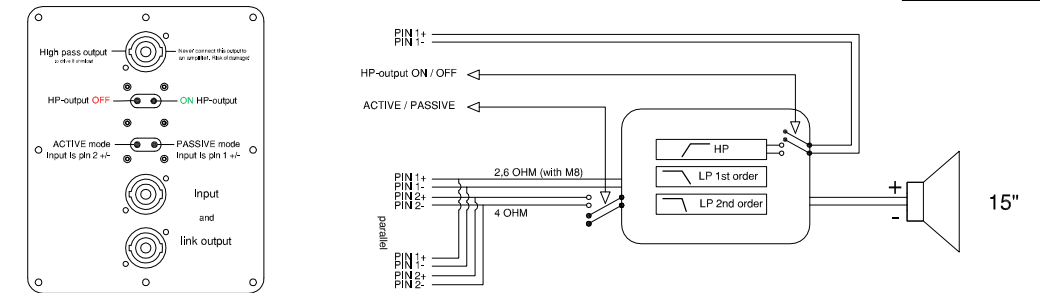


FIG 3. INTERNAL WIRING DIAGRAM



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

FIG 4. PWB15 OPERATION MODES

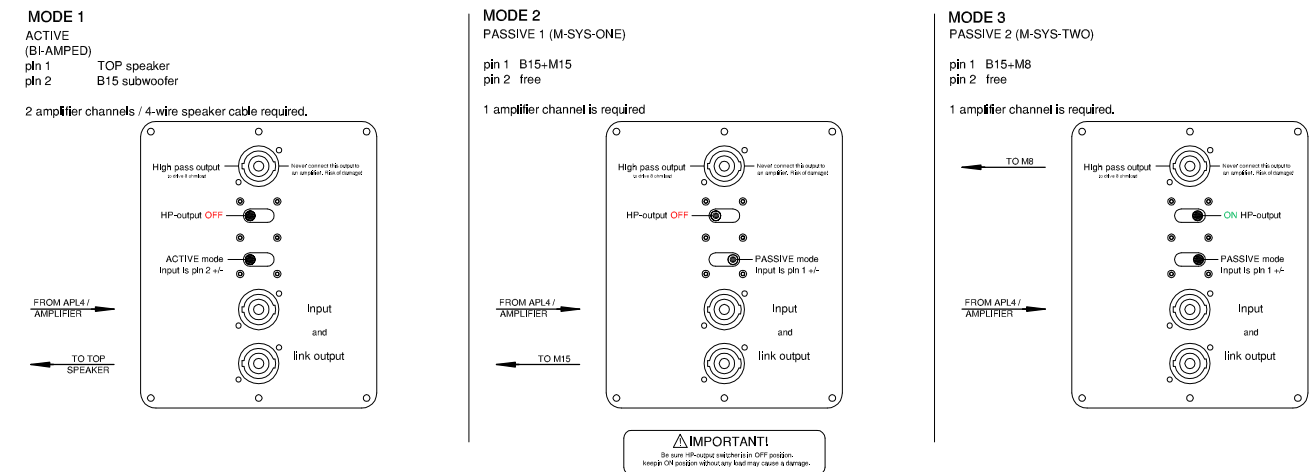
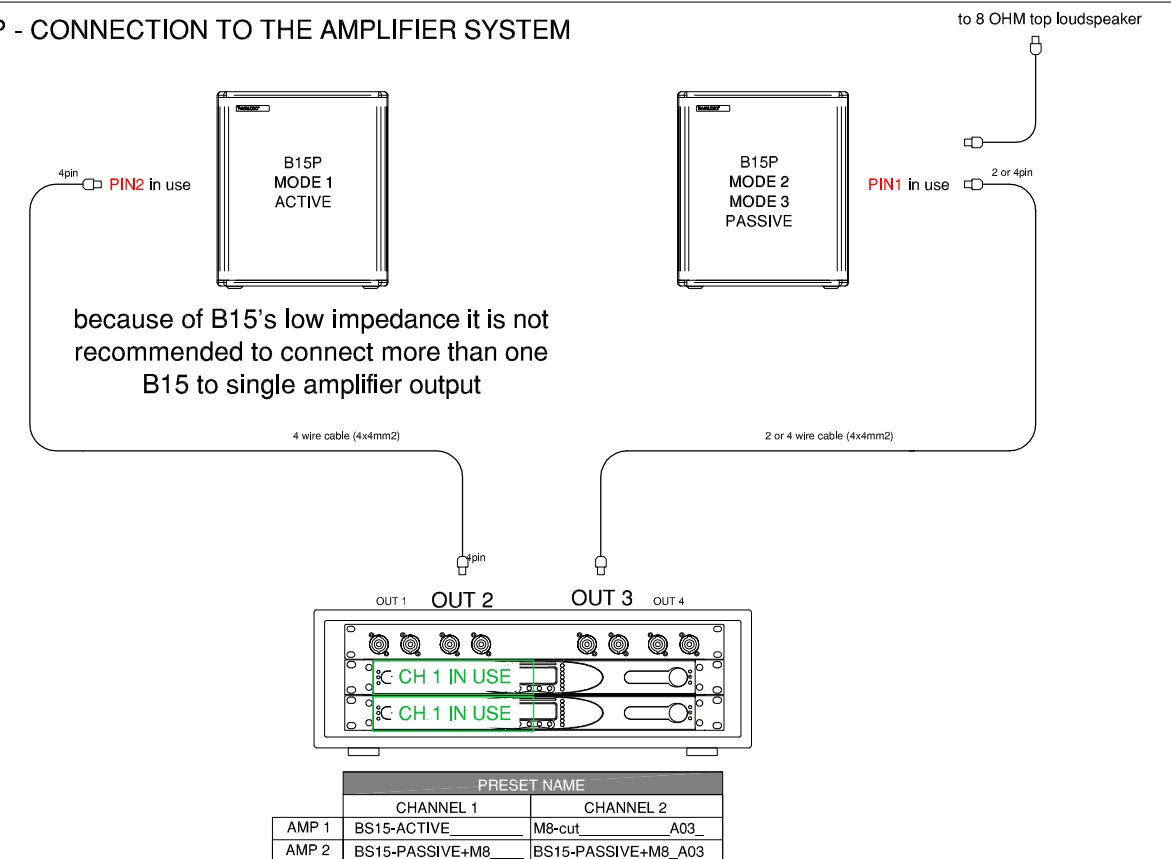


FIG 5. B15P - CONNECTION TO THE AMPLIFIER SYSTEM



**\*NOTE:**

For lower SPL requirements it is possible to connect in parallel 2x B15 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.