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 B10 is designed as a bass-reflex subwoofer, equipped with single 10" dual coil cone-driver. In addition the B10P is equipped with our intelligent passive crossover PWB10 whitch enables different operation modes.

B10 as default is available in black colour and warnex structure paint. Any different RAL color can be requested.

PWB10 (passive crossover module) is designed to be operated in two different modes:

- MODE1: STEREO - dual coil 10" driver (2 x 16 Ohm) is powered from two amplifier channels. Passive top loudspeakers can be conected to high-pass filtered TOP OUTPUTS driven by the same amplifier channels.

- MODE2: MONO - dual coil 10" driver (coils connected in parallel 1x 8 Ohm) is powered from one amplifier channel. Passive top loudspeakers can be conected to high-pass filtered TOP OUTPUTS driven by the same amplifier channel.

B10P can be used with any linear amplifier available on the market. TW AUDIO recommends dedicated system amplifiers like Powersoft K-Series, M-Series or LAB.GRUPPEN PLM- / D-Series and IPD-Series and offers dedicated presets for those.

B10 can only be groundstacked. There is no hardware available to fly this subwoofer. Find more on www.twaudio.de website.

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 0.
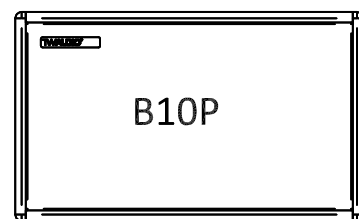
B10P

B10P		TECHNICAL DATA
Frequnecy range	[Hz]	40 - 250 (without processing)
Power pgm/peak	[W]	700 / 1400
Impedance	[Ohm]	2 x 16 STEREO / 1 x 8 MONO
Dispersion		omni
Sensitivity	[dB]	91
max SPL	[dB]	123
Dimensions	[mm]	304 x 500 x 440
Weight	[kg]	20,1

FIG 1. CONNECTION TO AMPLIFIER witch one FOUR WIRE CABLE

B10P REAR PANNEL

APL4-K

OUT 1 parallel	OUT 2 parallel	OUT 3 parallel	OUT 4 parallel
PIN1± :CH1	PIN1± :CH2	PIN1± :CH3	PIN1± :CH4
PIN2± :CH2	PIN2± :CH1	PIN2± :CH4	PIN2± :CH3
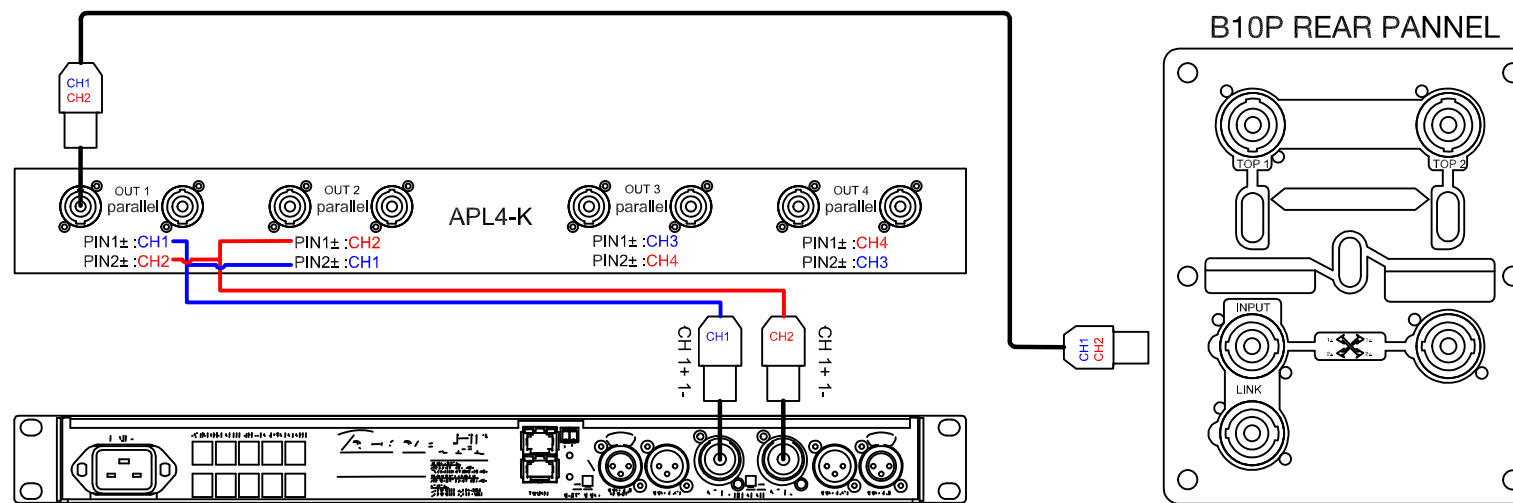
FIG 2. CONNECTION TO AMPLIFIER with two TWO WIRE CABLES

B10P REAR PANNEL

IMPORTANT!!!
NEVER USE THIS CONFIGURATION WITH FOUR-WIRE-CABLES RISK OF DAMAGE!

CH 1+ 1-
CH 1+ 1-

TW AUDIO RECOMEND TO USE POWERSOFT K3DSP
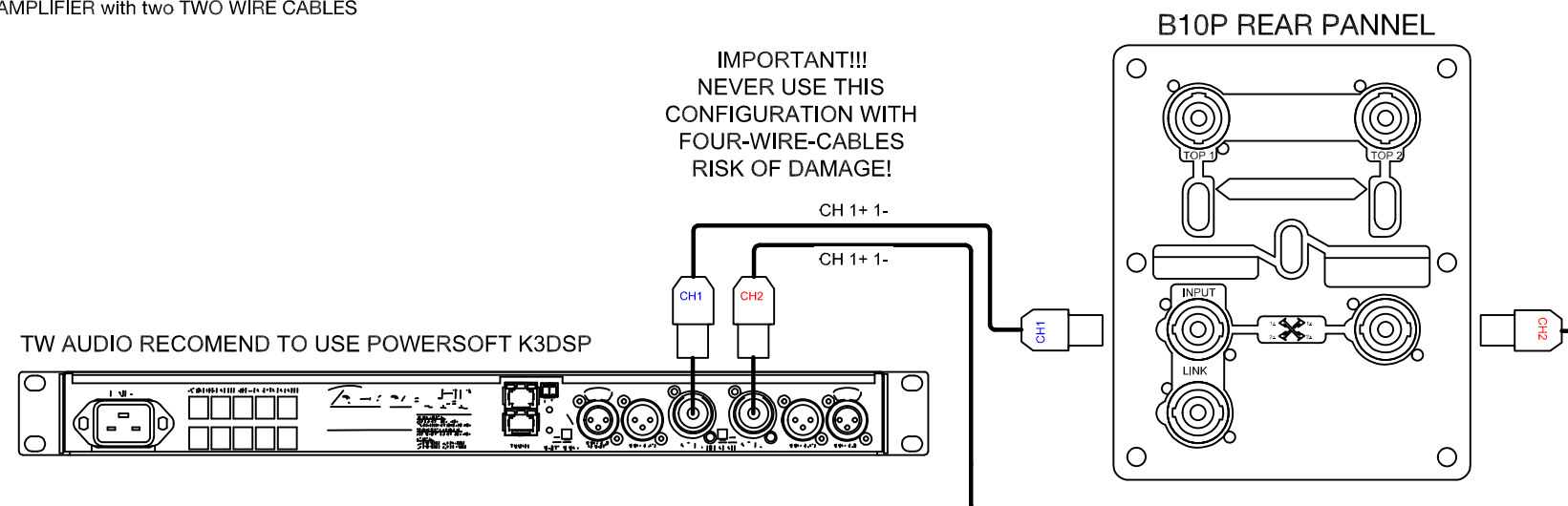
FIG 2. B10P REAR PANNEL AND CROSSOVER DIAGRAM

TOP OUTPUT
Never connect these outputs to an amplifier

S1   S2
S3

Only switch ON with top connected

MONO   STEREO
INPUT
LINK
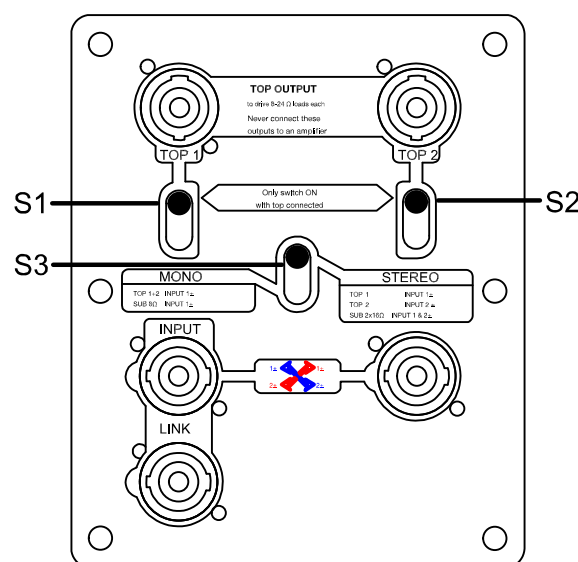
S1:   TOP1 ON /TOP1 OFF
 - If you connect a top speaker to TOP1 output set SWITCH1 ON
 - If you don't connect any speaker to TOP1 output set SWITCH1 OFF

S2:   TOP2 ON /TOP2 OFF
 - If you conect top speaker to TOP2 output set SWITCH1 ON
 - If you don't conect the speaker to TOP2 output set SWITCH1 OFF

S3:   STEREO / MONO MODE

In STEREO MODE dual coil 10" speaker is powered from CH1 and CH2 of amplifier.
You can use both TOP OUTPUTS.

In MONO MODE one channel of amplifier is required. Dual coil 10" speaker is powered parallel from one channel.
You can use both TOP OUTPUTS.

STEREO MODE

S1 / TOP 1 ON
INPUT PIN 1+
INPUT PIN 1-
INPUT PIN 2+
INPUT PIN 2-
S3 / STEREO MODE
S2 / TOP 2 ON
LPF   HPF   TOP 1
dual-coil 10"
LPF   HPF   TOP 2

MONO MODE

S1 / TOP 1 ON
INPUT PIN 1+
INPUT PIN 1-
INPUT PIN 2+
INPUT PIN 2-
S3 / MONO MODE
S2 / TOP 2 OFF
LPF   HPF   TOP 1
dual-coil 10"
LPF   HPF   TOP 2

TWAUDiO®
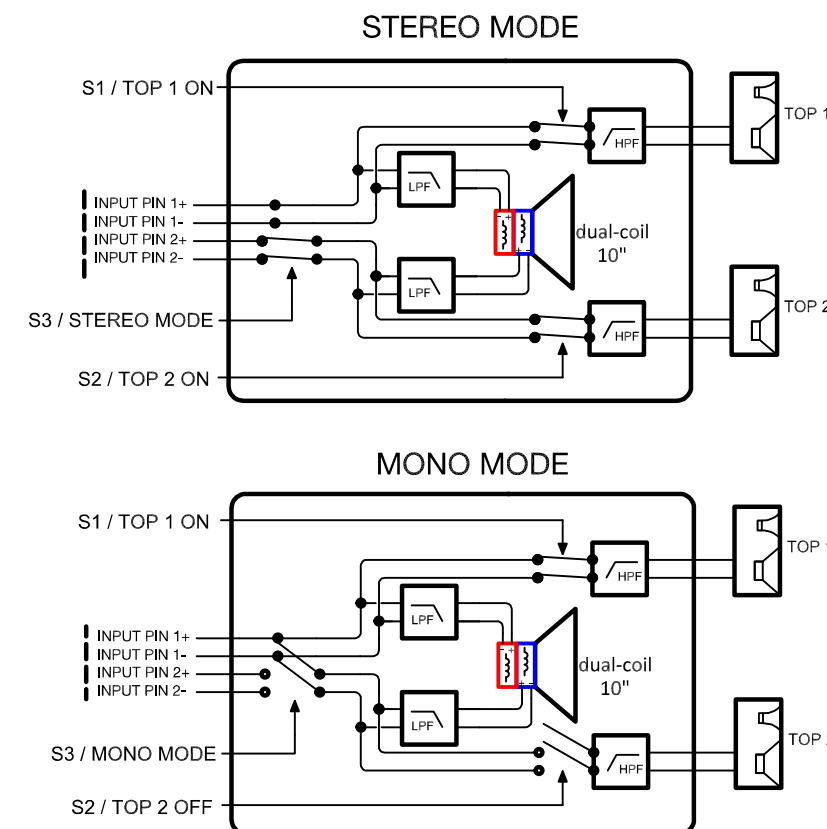
FIG 3. B10P TOP SPEAKERS COMBINATIONS

B10P REAR PANEL

to TOP1

M10 M8 M6 C5

to TOP2

C5 M6 M8 M10

TOP OUTPUT

INPUT

LINK
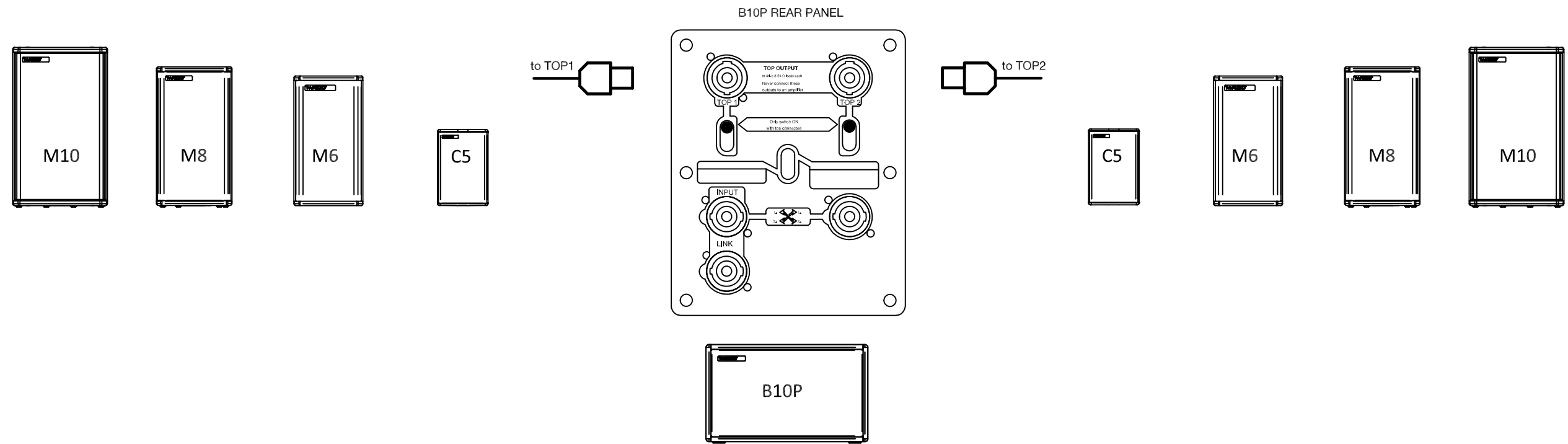
B10P

1x B10P (STEREO) + 2x C5

B10 equipped with PWB10 x-over

C5

PIN1± TOP
PIN2± not used

C5

PIN1± TOP
PIN2± not used

TOP OUTPUT

MONO   STEREO

CH1 amplifier

INPUT

LINK

CH2 amplifier

PIN1± full range
PIN2± must not be connected!
RISK OF DAMAGE!!!

PIN1± full range
PIN2± must not be connected!
RISK OF DAMAGE!!!

B10P

CH1   CH2
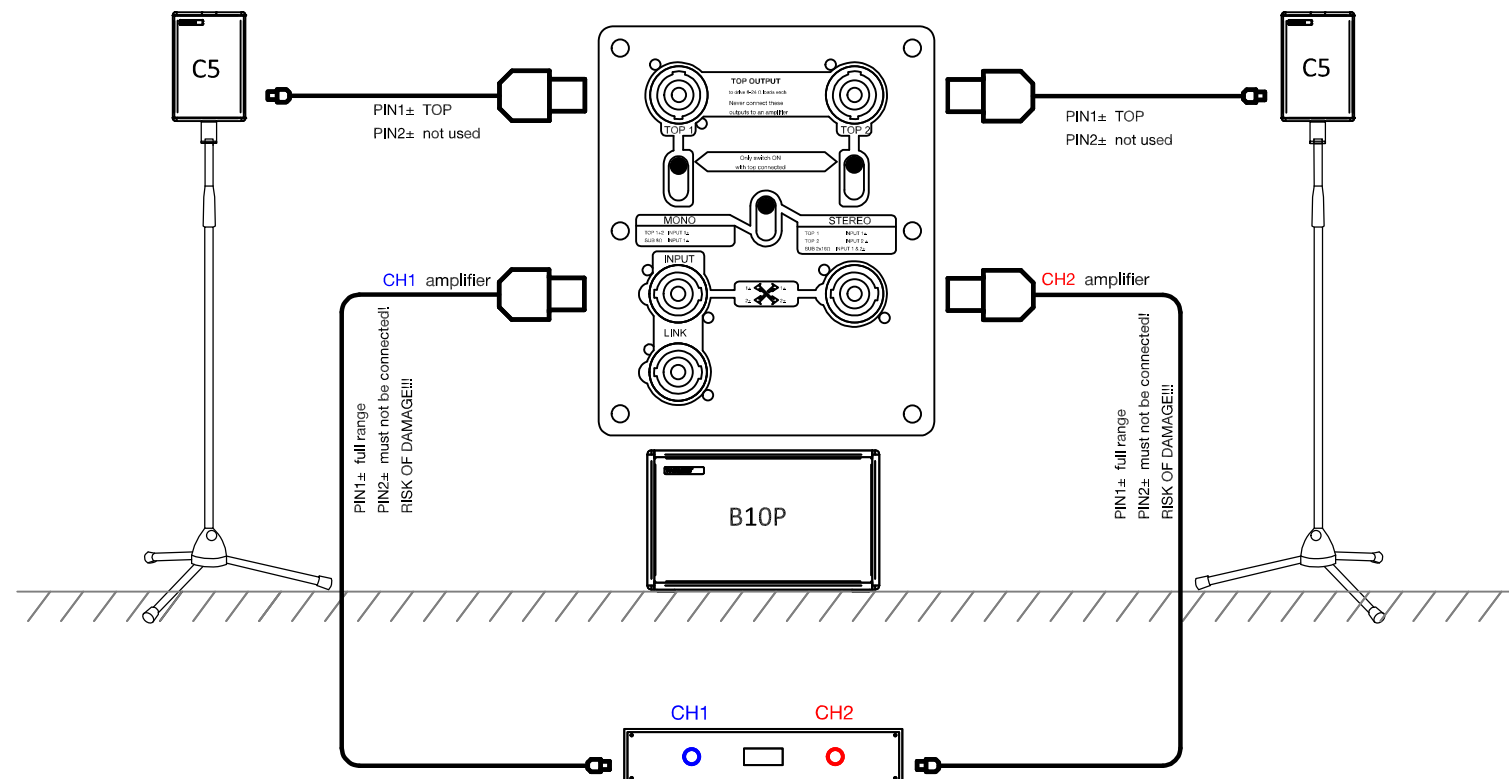
2x B10P (MONO) + 2x M8

B10 equipped with PWB10 x-over

M8

PIN1± TOP
PIN2± not used

TOP OUTPUT
TOP 1 ON → Only switch ON with top connected ← TOP 2 OFF

MONO STEREO

INPUT

LINK

CH1 amplifier
PIN1± full range
PIN2± not used

B10P

M8

PIN1± TOP
PIN2± not used

TOP 1 ON → ← TOP 2 OFF

CH2 amplifier
PIN1± full range
PIN2± not used

B10P

CH1 CH2
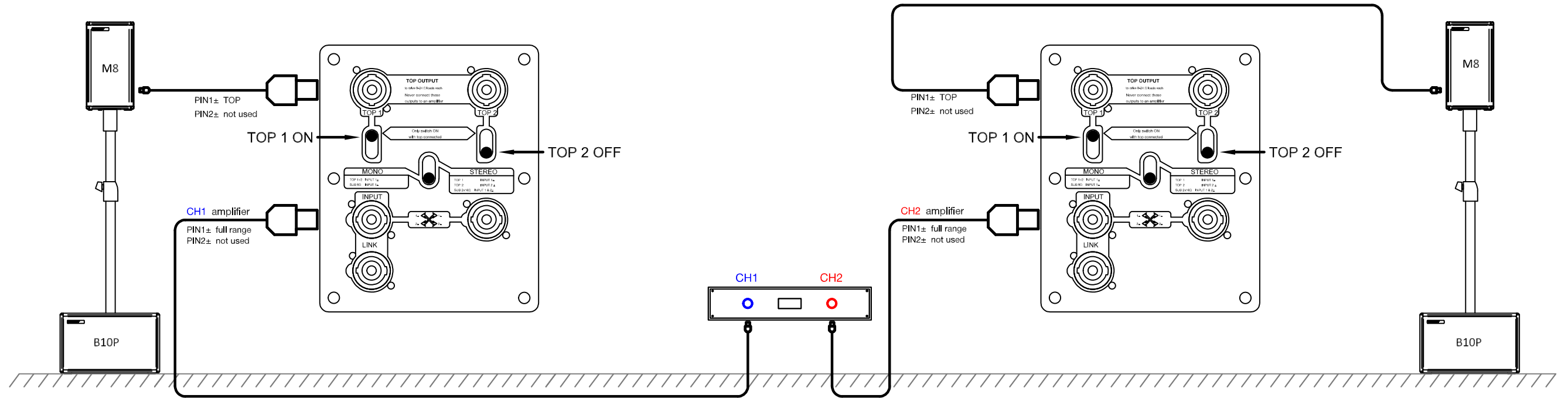
2x B10P (MONO) + 4x C5

B10 equipped with PWB10 x-over

C5   C5

PIN1± TOP
PIN2± not used

PIN1± TOP
PIN2± not used

TOP OUTPUT

TOP 1 ON → Only switch ON with top connected ← TOP 2 ON

MONO STEREO

INPUT

LINK

CH1 amplifier
PIN1± full range
PIN2± not used

B10P

C5   C5

PIN1± TOP
PIN2± not used

PIN1± TOP
PIN2± not used

TOP 1 ON → ← TOP 2 ON

CH2 amplifier
PIN1± full range
PIN2± not used

B10P

CH1 CH2
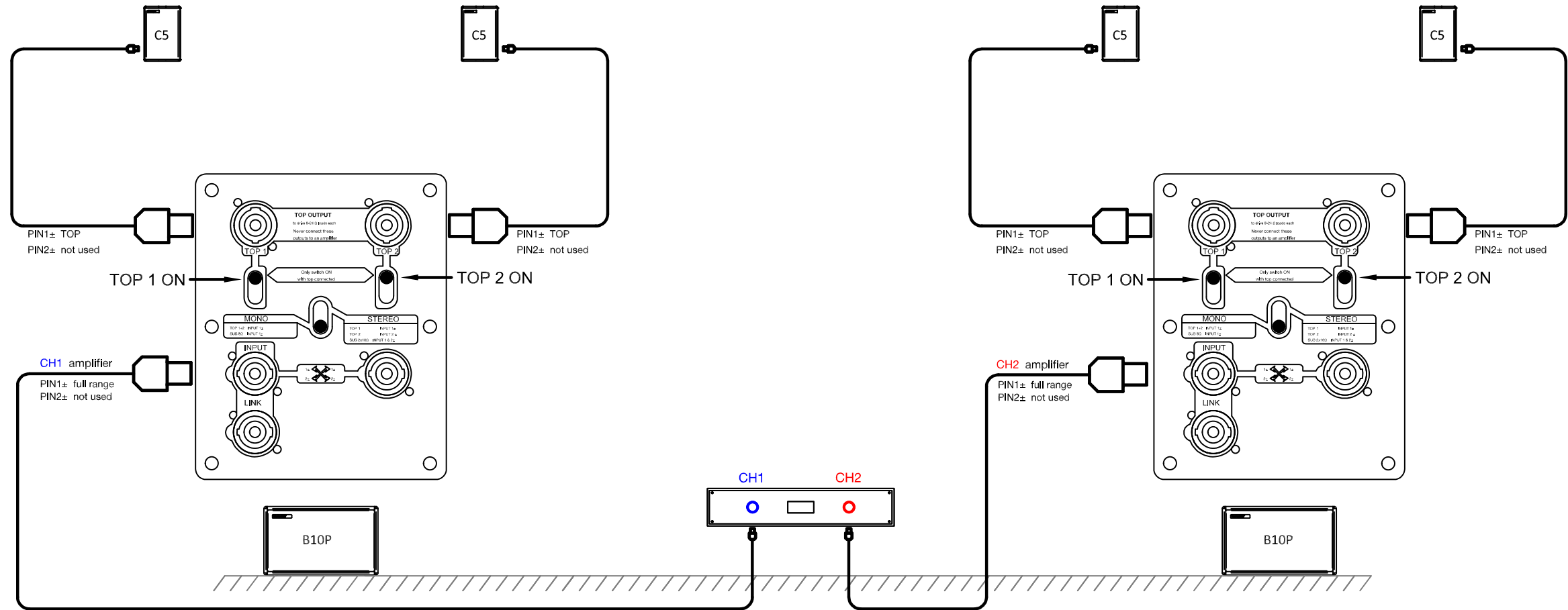
4x B10P (MONO) + 2x M10

B10 equipped with PWB10 x-over

PIN1± TOP
PIN2± not used

TOP 1 ON

TOP 2 OFF

CH1 amplifier
PIN1± full range
PIN2± not used

LINK to bottom B10P

TOP 1 OFF

TOP 2 OFF

M10

B10P

B10P

CH1   CH2

PIN1± TOP
PIN2± not used

TOP 1 ON

TOP 2 OFF

CH2 amplifier
PIN1± full range
PIN2± not used

LINK to bottom B10P

TOP 1 OFF

TOP 2 OFF

M10

B10P

B10P