

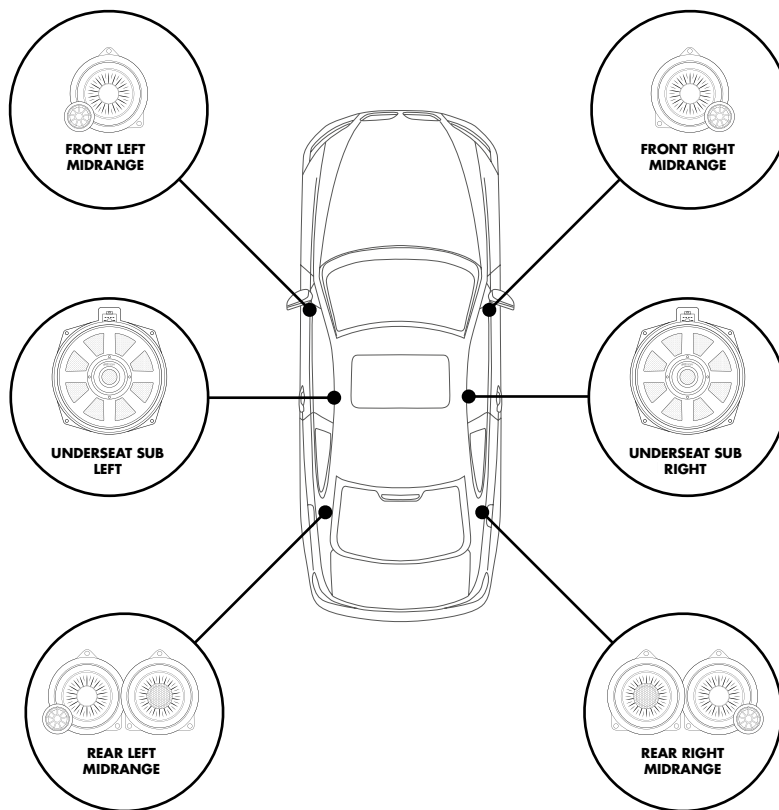
ETON SOUNDUPGRADE BMW WIRING WIZZARD

Partactive connection to OEM Soundsystem BMW SA676 (HIFI soundsystem), E-SERIES

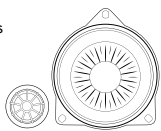
All speakers are plug & play and have the matching BMW-specific connection plugs, i.e. you do not have to cut any cables or drill any holes! In the partially active connection version, you do not have to pull any new cables, all speakers are connected to the original BMW wiring harness. There are different speaker basket types, these are different in the mounting points, the contact surface, the basket depth and have different sealing surfaces. They have been developed to fit to your door trim exactly, the following basket types are currently in use: Basket „N, -T, -W & -W2“, please refer to our compatibility list (www.etongmbh.com) for the appropriate speaker types for your vehicle. If you do not have room for a separate tweeter, you can install the coaxial systems (tweeter and midrange in one unit). These are also available as „XN, XT, XW and XW2“ baskets. For all models we offer individually the B195 NEO under-seat basses. Included in the scope of delivery of the 2-way systems is the tweeter cable crossover, the optionally available B100 XHP midrange crossovers are NOT required, as appropriate active filtering is already carried out in the original BMW amplifier (SA676 Hifi System).

PARTIALLY ACTIVE CONNECTION WITH OEM BMW AMP

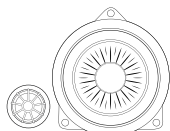
PLEASE NOTE CURRENT LIST OF COMPATIBILITY! www.etongmbh.com



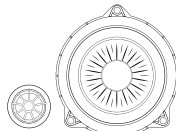
2-way systems



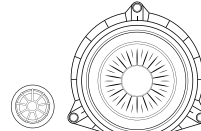
B100 N



B100 T

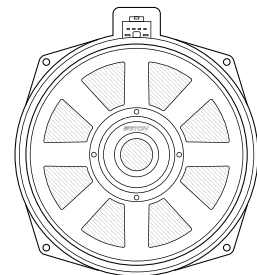


B100 W



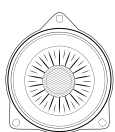
B100 W2

Underseat-Subwoofer

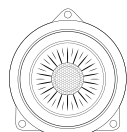


B195 NEO

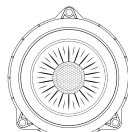
coaxial systems



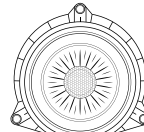
B100 XN



B100 XT



B100 XW



B100 XW2

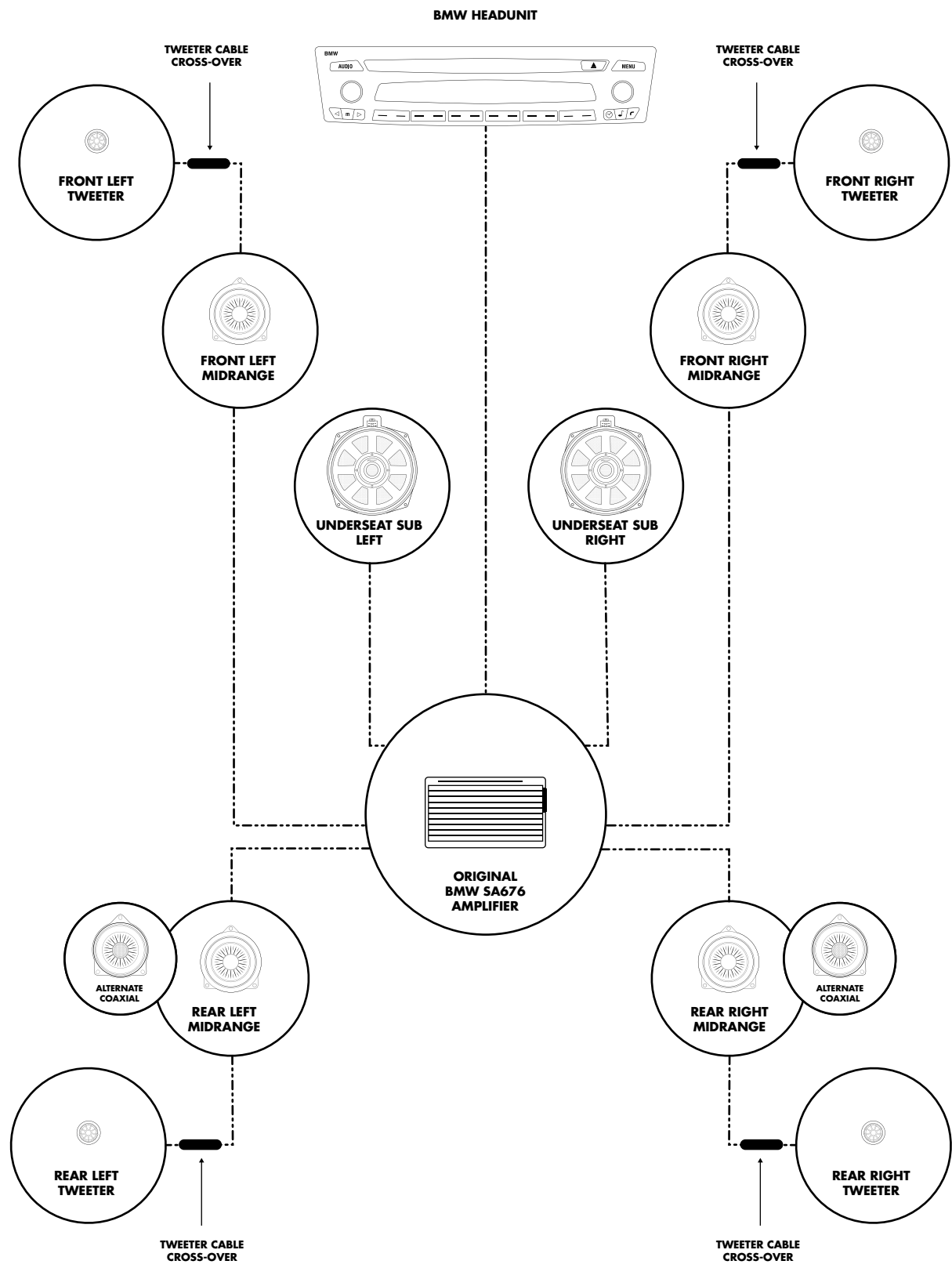
- N**-basket: Screwing from the front, sealing surface on the back of the basket, „N=normal shoring“.
- T**-basket: Screwing from the rear, against the door panel, sealing surface on the front of the loudspeaker, „T=doorpanel shoring“.
- W**-basket: Raised basket height for optimum connection to the door trim, screw connection from the front, loudspeaker is screwed onto the inner door panel, sealing surface on the rear, loudspeaker projects into the wet area of the door „W=Wet/Wet installation“.
- W2**-basket: Greatly extended basket height for optimum connection to the door trim, screw connection from the front, loudspeaker is screwed onto the inner door panel, sealing surface on the rear, loudspeaker protrudes into the wet area of the door. Wet area of the door „W2=Wet/wet installation, with extended basket depth“.

ETON **SOUNDUPGRADE BMW** INSTALLATION WIZZARD

Partactive connection to the OEM Soundsystem BMW SA676 (HIFI Soundsystem), E-SERIES

WIRING LAYOUT

----- ORIGINAL BMW WIRING HARNESS

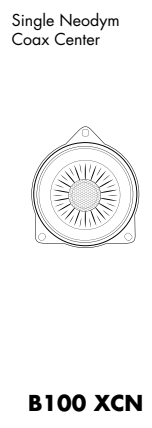
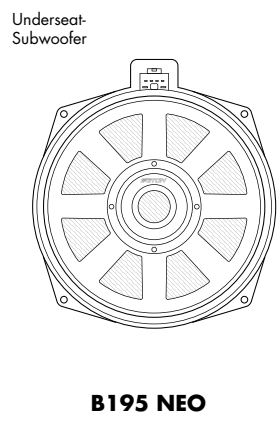
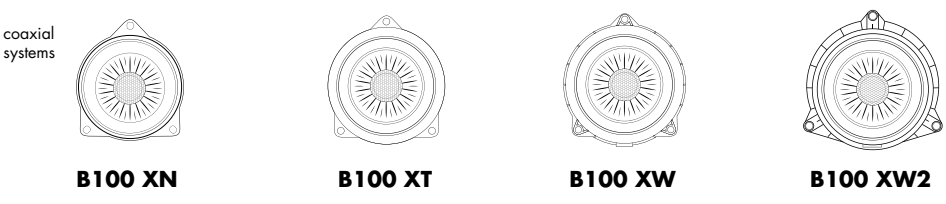
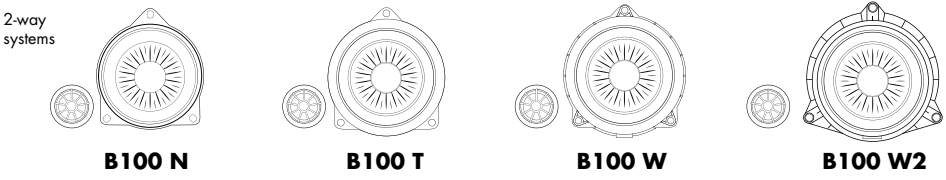
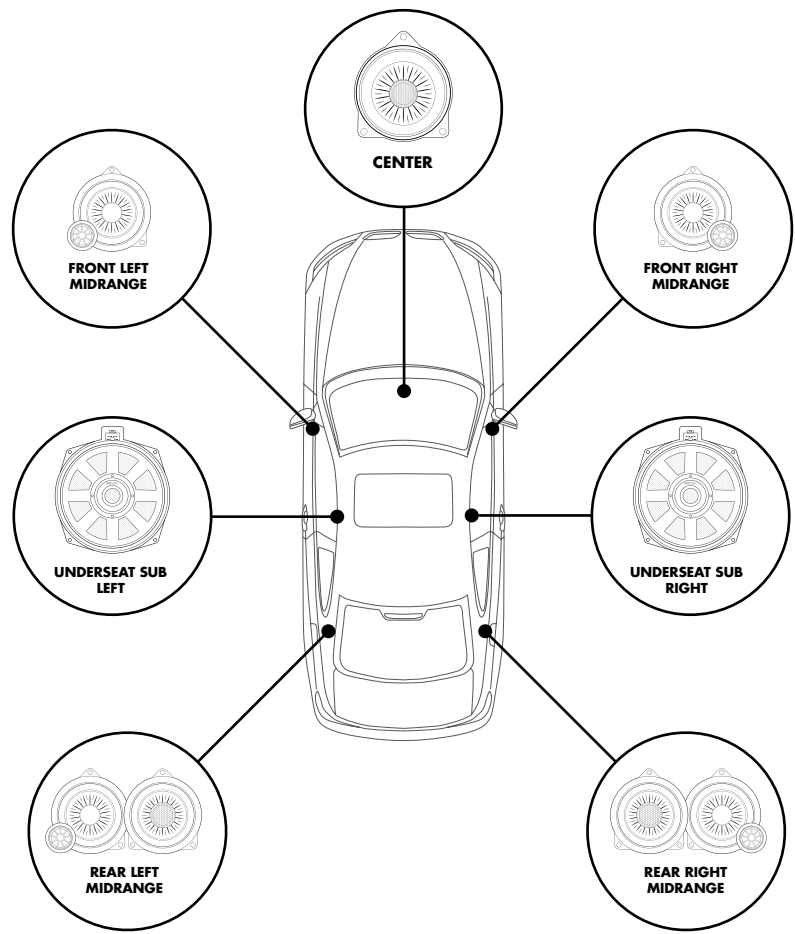


ETON SOUNDUPGRADE BMW WIRING WIZZARD

Partactive connection to OEM Soundsystem BMW SA676 (HIFI soundsystem), F- & G-SERIES

All speakers are plug & play and have the matching BMW-specific connection plugs, i.e. you do not have to cut any cables or drill any holes! In the partially active connection version, you do not have to pull any new cables, all speakers are connected to the original BMW wiring harness. There are different speaker basket types, these are different in the mounting points, the contact surface, the basket depth and have different sealing surfaces. They have been developed to fit to your door trim exactly, the following basket types are currently in use: Basket „N, -T, -W & -W2“, please refer to our compatibility list (www.etongmbh.com) for the appropriate speaker types for your vehicle. If you do not have room for a separate tweeter, you can install the coaxial systems (tweeter and midrange in one unit). These are also available as „XN, XT, XW and XW2“ basket as well as the space-saving single centre speaker „XCN“ (coaxial neodymium speaker). For all models, we offer the B195 NEO under-seat basses separately. Included in the scope of delivery of the 2-way systems is the tweeter cable crossover, the optionally available B100 XHP midrange crossovers are NOT required, as appropriate active filtering is already provided in the original BMW amplifier (SA676 Hifi System). The centre speaker is available as an optional installation location (from F & G series).

PART ACTIVE CONNECTION WITH OEM BMW AMP PLEASE NOTE CURRENT LIST OF COMPATIBILITY! www.etongmbh.com



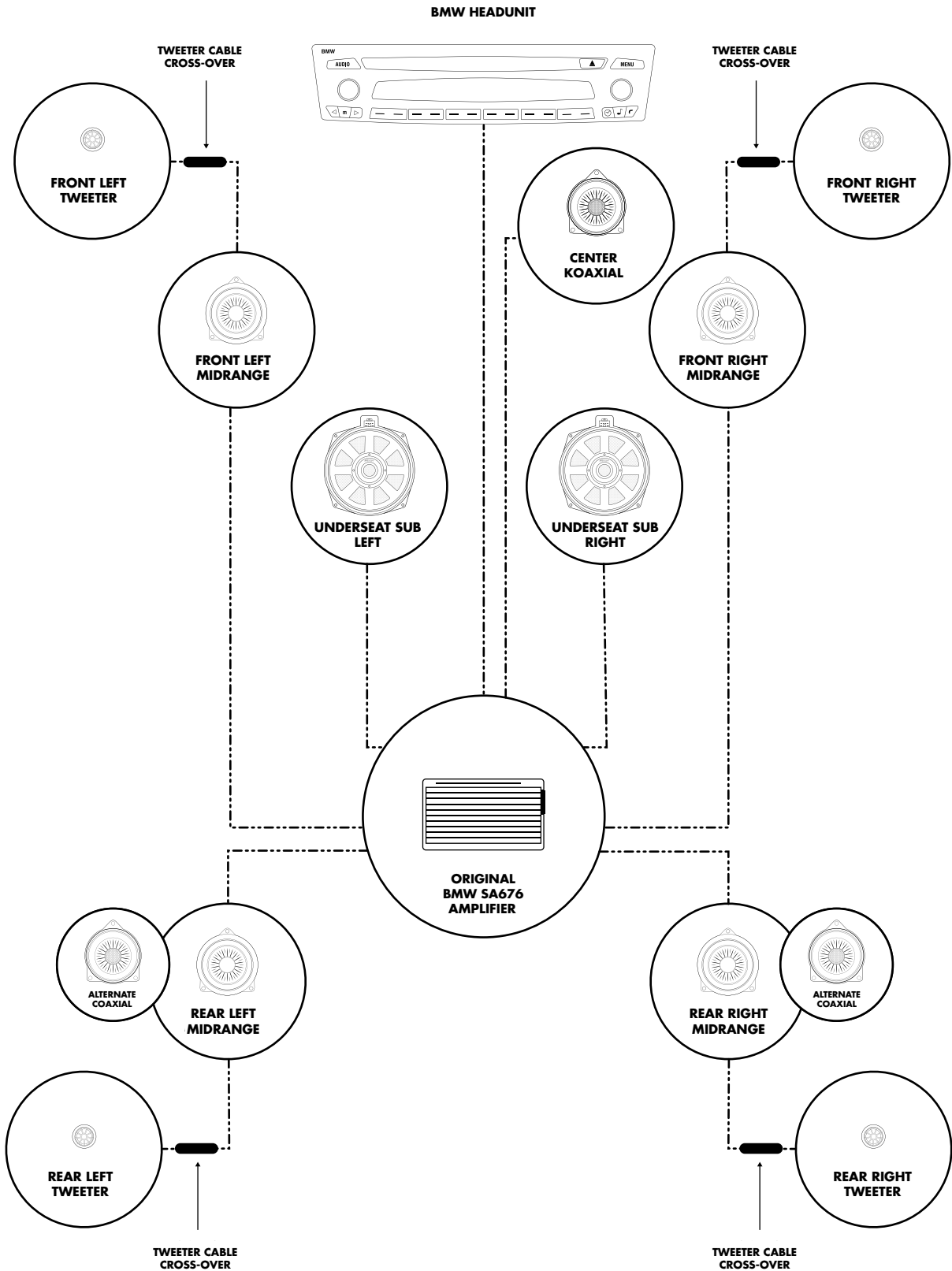
N-basket: Screwing from the front, sealing surface on the back of the basket, „N=normal shoring“.
T-basket: Screwing from the rear, against the door panel, sealing surface on the front of the loudspeaker, „T=doorpanel shoring“.
W-basket: Raised basket height for optimum connection to the door trim, screw connection from the front, loudspeaker is screwed onto the inner door panel, sealing surface on the rear, loudspeaker projects into the wet area of the door „W=Wet/Wet installation“.
W2-basket: Greatly extended basket height for optimum connection to the door trim, screw connection from the front, loudspeaker is screwed onto the inner door panel, sealing surface on the rear, loudspeaker protrudes into the wet area of the door. Wet area of the door „W2=Wet/wet installation, with extended basket depth“.

ETON **SOUNDUPGRADE BMW** WIRING WIZZARD

Partactive connection to OEM Soundsystem BMW SA676 (HIFI soundsystem), F- & G-SERIES

WIRING LAYOUT

----- ORIGINAL BMW WIRING HARNESS



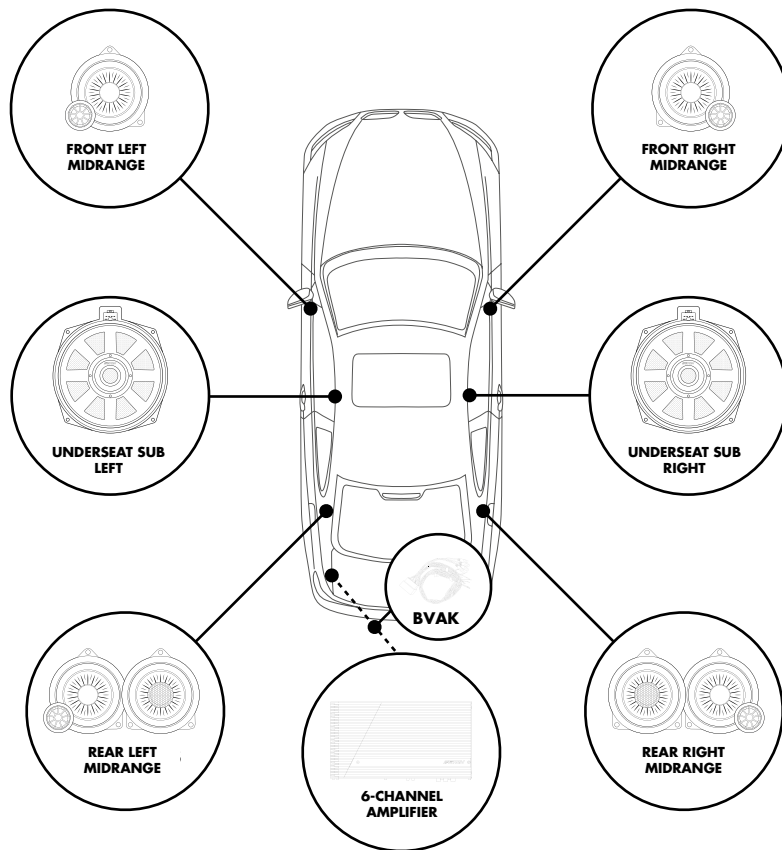
ETON **SOUNDUPGRADE BMW** INSTALLATION WIZZARD (BMW SA676) E-SERIES **PART ACTIVE** connection front- & rearsystem with 6 channel retrofit amplifier

Please refer to the information contained in the partially active connection on the previous page. To replace the original BMW SA676 amplifier module with a 6-channel class-D amplifier Class-D power amplifier, the ETON UG BMW BVAK connection cable kit and two cinch cables with power connection cable are also required.

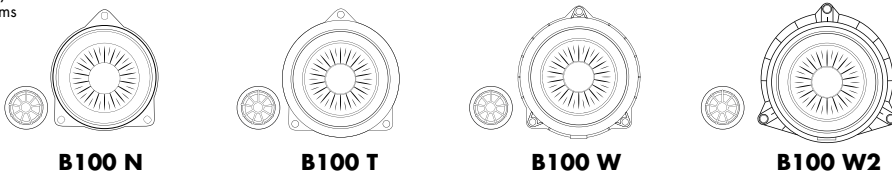
We recommend the use of an ETON POWER 150.6 6-channel power amplifier or the ETON STEALTH 7.1 DSP 7-channel power amplifier with integrated DSP in combination with the ETON Upgrade speakers as well as the ETON BVAK cable kit.

PARTACTIVE CONNECTION 6-CHANNEL

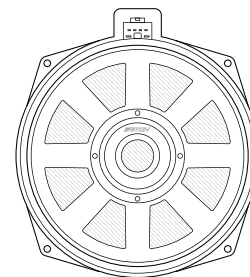
PLEASE NOTE THE CURRENT COMPATIBILITY LIST! www.etongmbh.com



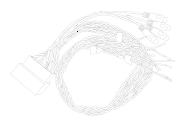
2-way systems



Underseat-Subwoofer

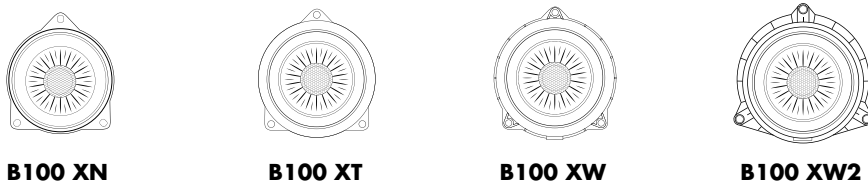


WIRING HARNESS



BVAK

coaxial systems



6-CH AMPLIFIER



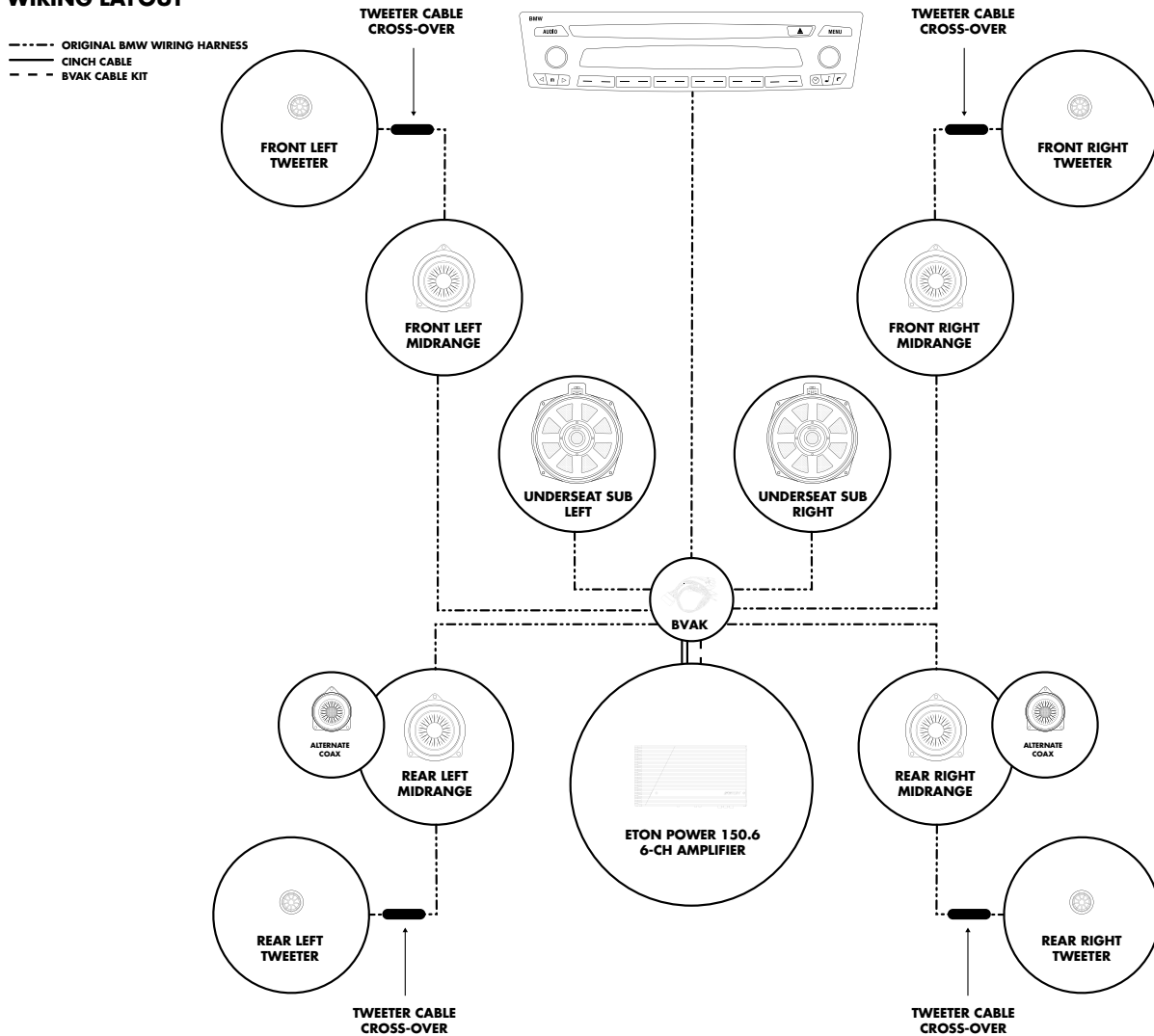
POWER 150.6

- N**-basket: Screwing from the front, sealing surface on the back of the basket, „N=normal shoring“.
- T**-basket: Screwing from the rear, against the door panel, sealing surface on the front of the loudspeaker, „T=doorpanel shoring“.
- W**-basket: Raised basket height for optimum connection to the door trim, screw connection from the front, loudspeaker is screwed onto the inner door panel, sealing surface on the rear, loudspeaker projects into the wet area of the door „W=Wet/Wet installation“.
- W2**-basket: Greatly extended basket height for optimum connection to the door trim, screw connection from the front, loudspeaker is screwed onto the inner door panel, sealing surface on the rear, loudspeaker protrudes into the wet area of the door. Wet area of the door „W2=Wet/wet installation, with extended basket depth“.

ETON SOUNDUPGRADE BMW INSTALLATION WIZZARD (BMW SA676)

E-SERIES PART ACTIVE connection front- & rearsystem with 6 channel retrofit amplifier

WIRING LAYOUT



CONNECTION TO THE AMPLIFIER

OUTPUT

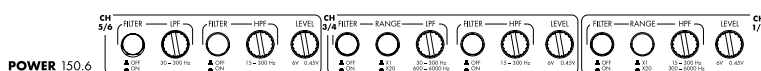
1. Connect the BVAK midrange-, tweeter cable (drivers side) (white + & white-black -) to CH 1 Output
2. Connect the BVAK midrange-, tweeter cable (passengers side) (grey + & grey-black -) to CH 2 Output
3. Connect the BVAK midrange-, tweeter cable (drivers side rear) (green + & green-black -) to CH 3 Output
4. Connect BVAK midrange-, tweeter cable (passengers side rear) (purple + & purple-black -) to CH 4 Output
5. Connect BVAK subwoofer cable (drivers side) (white + & black -) to CH 5 Output
6. Connect BVAK subwoofer cable (passengers side) (purple + & black -) to CH 6 Output

INPUT

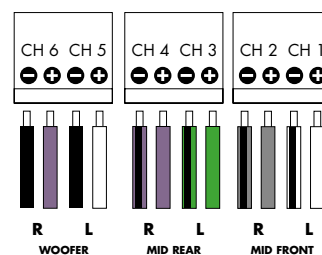
5. Connect BVAK cable (front) cinch connector (left white) with a cinch cable to CH1 Input
6. Connect BVAK cable (front) cinch connector (right red) with a cinch cable to CH2 Input
7. Connect BVAK cable (rear) cinch connector (left white) with a cinch cable to CH3 Input
8. Connect BVAK cable (rear) cinch connector (right red) with a cinch cable to CH4 Input

Connect the blue remote cable of the BVAK cable to your amplifiers remote input (REM).

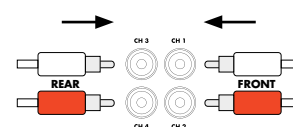
CROSS-OVER FREQUENCIES



OUTPUT



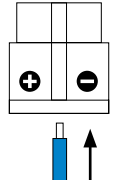
INPUT



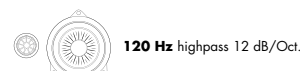
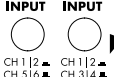
AUTO SENSE

OFF
SIG DC

POWER CONNECTOR



5/6 CH INPUT



MIDRANGE / TWEETER FRONT CH1/2

1. Turn the amplifier to „OFF“ at auto-sense function
2. Place an active filter to CH 1/2 by pressing the button „ON“.
3. Turn the range of CH 1/2 to „X1“.
4. Adjust the **highpassfilter** to **120 Hz**.
5. Adjust the level / gain from CH1/2 (LEVEL 6V – 0.45V).

MIDRANGE / TWEETER REAR CH3/4

6. Place an active filter to CH3/4 by pressing the „ON“ button activate (HPF) & choose „CH 3 | 4“ at 3/4 CH INPUT
7. Deactivate the lowpass filter at CH3/4 by pressing „OFF“
8. Activate the **highpassfilter (HPF)** at **120 Hz**.
10. Adjust the level / gain from CH3/4 (LEVEL 6V – 0.45V).

SUBWOOFER CH5/6

6. Place an activefilter at CH5/6 by pressing the „ON“ button activate (HPF & LPF) & choose „CH 1 | 2“ at 5/6 CH INPUT.
8. Adjust the **lowpassfilter (LPF)** to **120 Hz**.
9. Adjust the **highpassfilter (HPF)** to **35 Hz (Subsonic)**.
10. Adjust the level / gain from CH5/6 (LEVEL 6V – 0.45V).

ETON SOUNDUPGRADE BMW WIRING WIZZARD (BMW SA676)

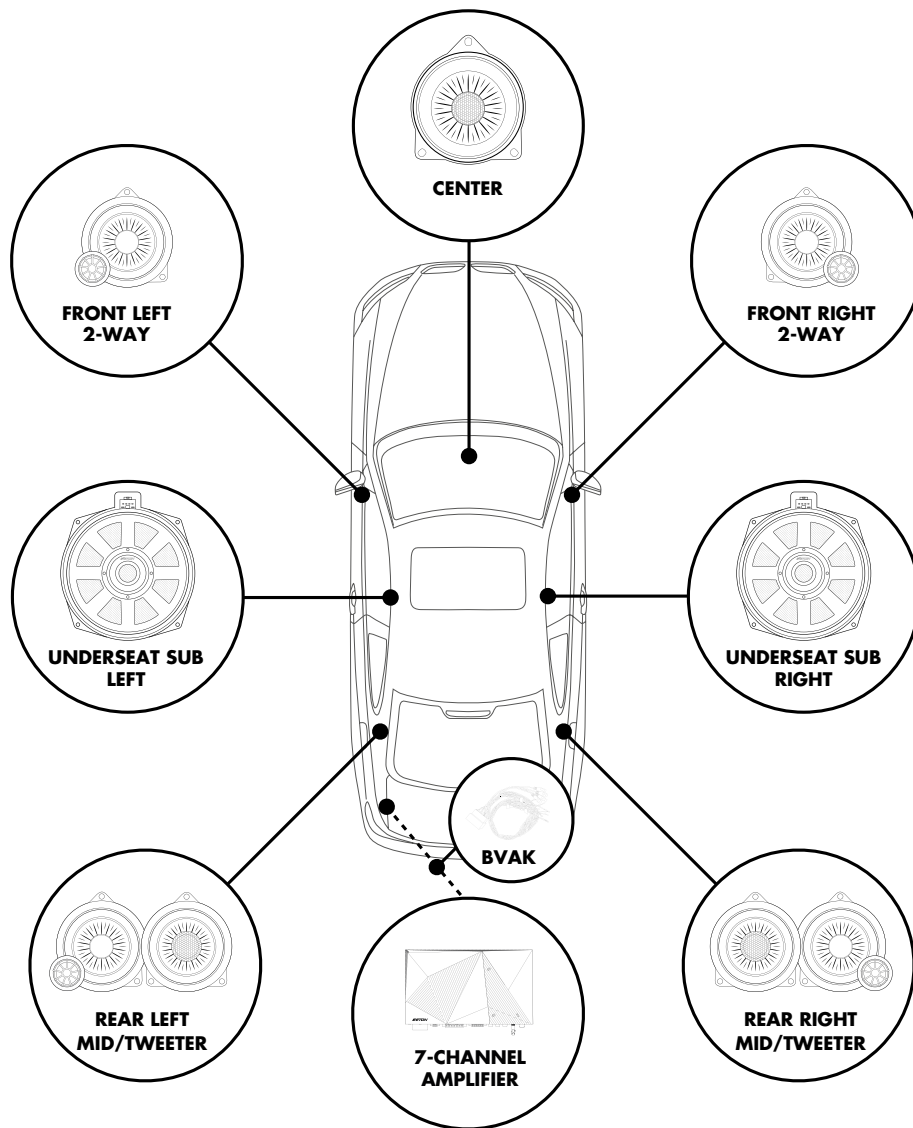
F & G-SERIES ACTIVE SETUP WITH CABLE CROSSOVERS FRONT-, REAR- + CENTER SPEAKERS, 7-CH AFTERMARKET AMP

Please note the information contained in the partially active connection on the previous pages. To replace the original BMW SA676 amplifier module with a 7-channel Class-D power amplifier, the ETON UG BMW BVAK connection cable kit and two cinch cables with power connection cable are also required.

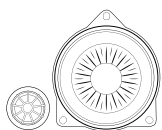
We recommend the use of an ETON STEALTH 7.1 DSP 7-channel power amplifier with integrated DSP in combination with the ETON Upgrade speakers and the ETON BVAK cable kit.

PARTIALLY ACTIVE CONNECTION 7-CHANNEL

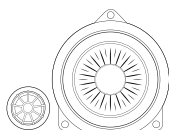
PLEASE NOTE CURRENT LIST OF COMPATIBILITY! www.etongmbh.com



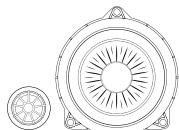
2-way system



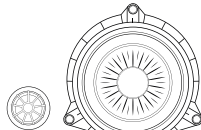
B100 N



B100 T

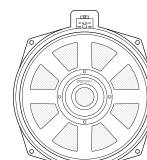


B100 W



B100 W2

N-Type: Screw connection from the front, sealing surface on the back of the basket, „N=normal shoring“.
T-Type: Screwed from behind, against the door panel, sealing surface on the front of the loudspeaker, „T=door shoring“.
W-Type: Increased basket height for optimum connection to the door cardboard, screw connection from the front, loudspeaker is screwed to the inner door panel, sealing surface on the rear, loudspeaker projects into the wet area of the door „W=Wet/Wet shoring“.
W2-Type: Greatly extended basket height for optimum connection to the door panel, screw connection from the front, loudspeaker is screwed to the inner door panel, sealing surface on the rear, loudspeaker projects into the wet area of the door „W2=Wet/Wet shoring, with extended basket depth“.



B195 NEO

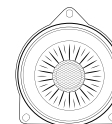
Underseat-Subwoofer

Connection Cable harness



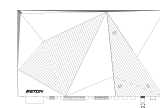
BVAK

Single Center Coax



B100 XCN

7-channel amplifier



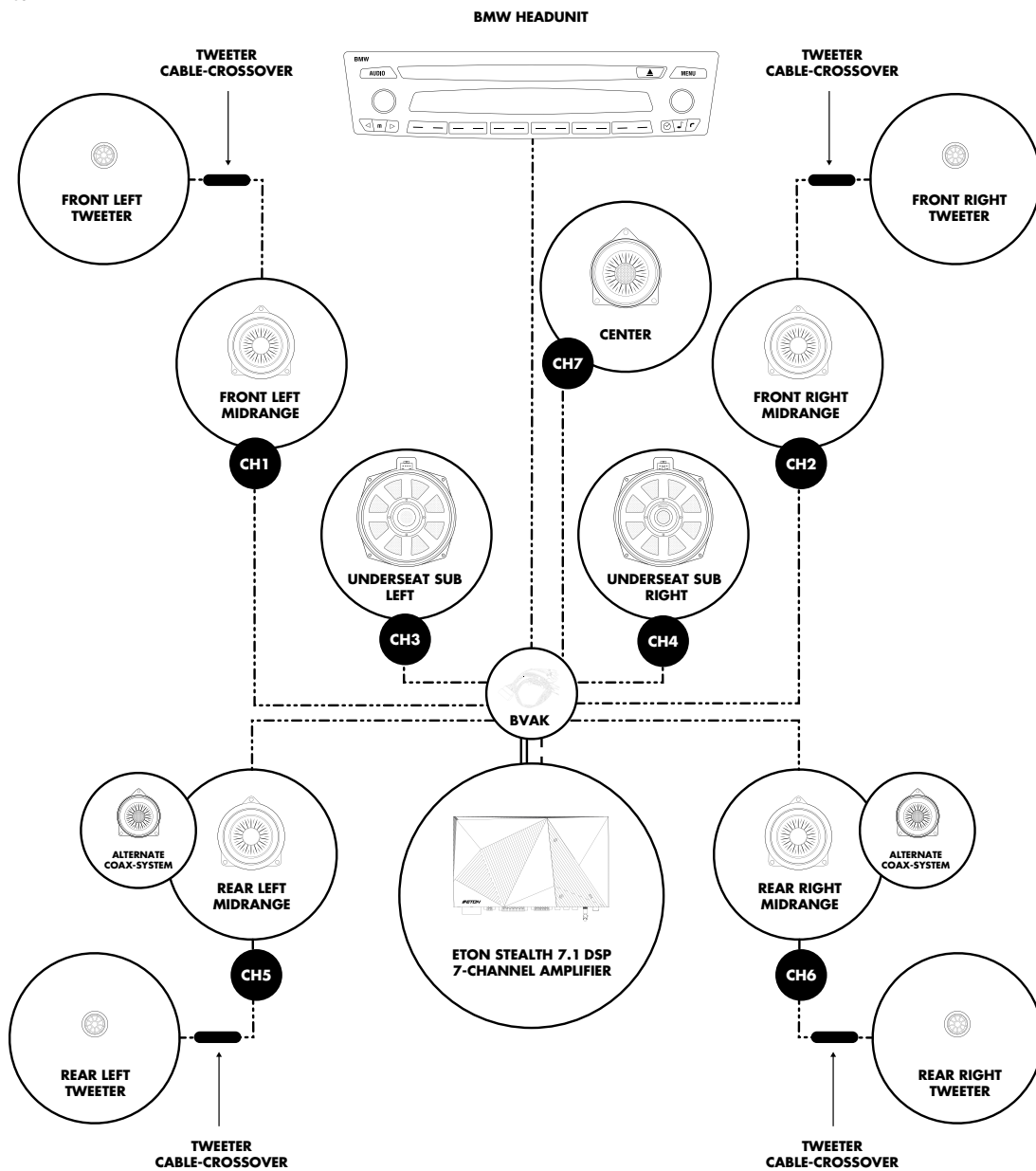
STEALTH 7.1 DSP

ETON SOUNDUPGRADE BMW WIRING WIZZARD (BMW SA676)

F & G-SERIES ACTIVE SETUP WITH CABLE CROSSOVERS FRONT-, REAR- + CENTER SPEAKERS, 7-CH AFTERMARKET AMP

WIRING WIZZARD

- OEM CABLE HARNESS
- RCA CABLE
- - - - - ETON UG BVAK



AMPLIFIER CONNECTION

OUTPUT

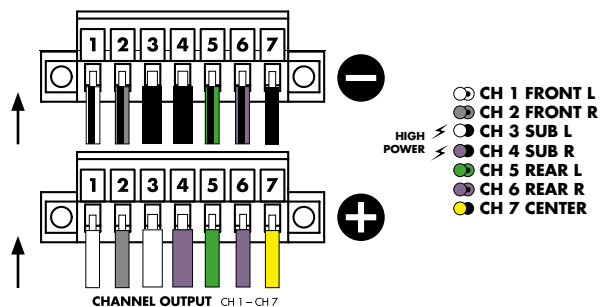
1. Connect BVAK Mid/Tweeter (driver side/lefthanddrive) (white + & white/black -) to channel CH 1 Output
2. Connect BVAK Mid/Tweeter (passenger side/lefthanddrive) (grey + & grey/black -) to channel CH 2 Output
3. Connect BVAK subwoofer (driver side) (white + & black -) to channel CH 3 Output
4. Connect BVAK subwoofer (passenger side) (purple + & black -) to channel CH 4 Output
5. Connect BVAK Mid/Tweeter (driver side rear/lefthanddrive) (green + & green/black -) to channel CH 5 Output
6. Connect BVAK Mid/Tweeter (passenger side rear/lefthanddrive) (purple + & purple/black -) to channel CH 6 Output
7. Connect BVAK Center (yellow + & black -) to channel CH 7 Output

INPUT

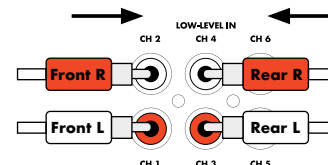
8. Connect BVAK (Front) RCA (Left white) with RCA cable to CH1 Input, red
9. Connect BVAK (Front) RCA (Right red) with RCA cable to CH2 Input, white
10. Connect BVAK (Rear) RCA (Left white) with RCA cable to CH3 Input, red
11. Connect BVAK (Rear) RCA (Right red) with RCA cable to CH4 Input, white

12. Connect BVAK remote cable (blue) to the remote input (ACC, A)

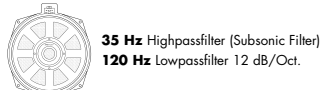
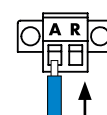
OUTPUT



INPUT

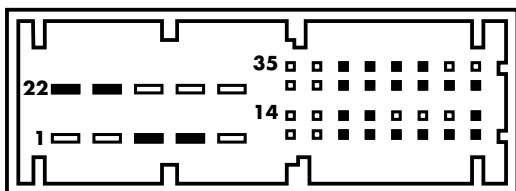
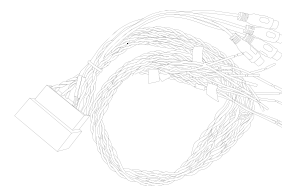


Remote-Input



ETON SOUNDUPGRADE BMW INSTALLATION-GUIDE (BMW SA676)

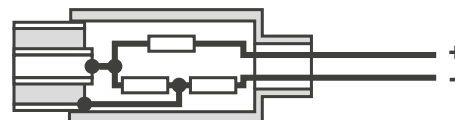
BVAK (BMW amplifier connector cable) assignment plan for 40-PIN BMW connector



■ used
□ not used

BMW SA676, 40-PIN amplifier connection

all RCA female jacks with integrated Hi-/Lo converter



Subwoofer front right	-		black, 1,5 mm2 AWG 15		PIN 3
	+		purple, 1,5 mm2 AWG 15	drilled	PIN 4
Subwoofer front left	-		black, 1,5 mm2 AWG 15		PIN 22
	+		white, 1,5 mm2 AWG 15	drilled	PIN 23
Remote			blue, 0,5 mm2 AWG 20		PIN 10
Headunit-signal rear right	+	RCA female red	white		PIN 8
	-		black		PIN 16
Headunit-signal front right	+	RCA female red	white		PIN 9
	-		black		PIN 17
Mid/tweeter front right	+		grey, 0,75 mm2 AWG 18		PIN 11
	-		grey/black, 0,75 mm2 AWG 18	drilled	PIN 12
Mid/tweeter front left	+		purple, 0,75 mm2 AWG 18		PIN 21
	-		purple/black, 0,75 mm2 AWG 18	drilled	PIN 13
Headunit-signal rear left	+	RCA female white	white		PIN 37
	-		black		PIN 29
Headunit-signal front left	+	RCA female white	white		PIN 38
	-		black		PIN 30
Mid/tweeter rear left	+		green, 0,75 mm2 AWG 18		PIN 32
	-		green/black, 0,75 mm2 AWG 18	drilled	PIN 31
Mid/tweeter rear right	+		white, 0,75 mm2 AWG 18		PIN 33
	-		white/black, 0,75 mm2 AWG 18	drilled	PIN 34
Center front	+		yellow, 0,75 mm2 AWG 18		PIN 39
	-		black, 0,75 mm2 AWG 18	drilled	PIN 40

10 mm bared

RCA ~250 mm wire length

~1000 mm wire length