IMPULSE 4.320 CABLE PRODUCT INFORMATION FOCAL INSIDE

February 2022



DEDICATED CABLES CONCEPT

Focal has developed a dedicated line of cables for our compact amplifiers, to simplify the installation of audio solutions Focal Inside Plug and play as much as possible.

In an "OEM" philosophy our cables are built in the same materials and connectors as what we develop on our OEM partners. Our wide range of Focal Inside cables will allow you to respond to all audio configurations. saving you a lot of time.

Impulse 4.320







Cables divided into 3 families:

Iso Harness, Extension Cables for impulse 4.320.

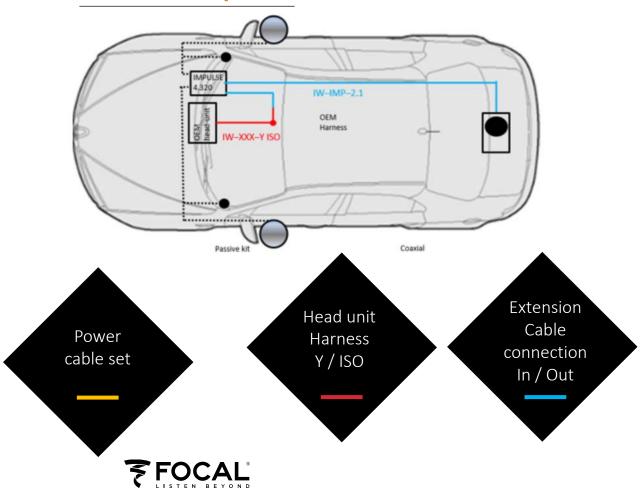
Harness ISO: Made for each brand, to connect to head unit and take audio signal.

Extension cables: to connect ISO Harness to amplifiers.

Take the signal, the booster, and send it to the speakers on doors by the original car cables.

Speakers cables: Power set cable to connect Impulse 4.320 direct to battery.

Cables line explication



3 Families cables

1/ Power set

2/ harness ISO cable

3/ Extension cable









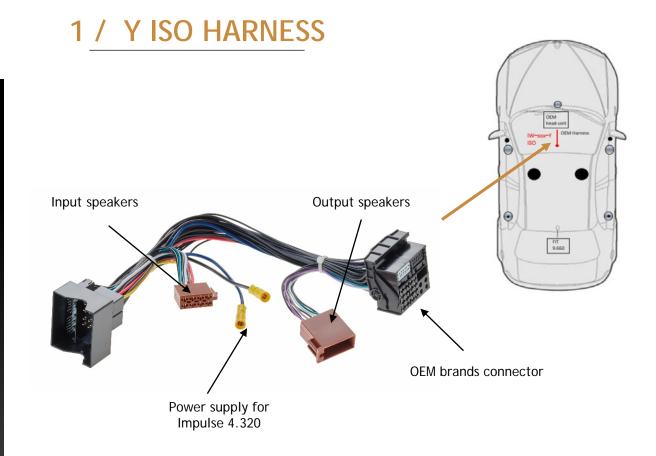
Y iso Harness, are developed for each car brands, for better and easer installation for perfect integration.

Specific brands connector, and iso connectors speakers.

Possibility to connect Impulse 4.320 power supply directly with this bracket.

Made for many brands

Can be used for the following products: Impulse 4.320, and also Ibus 2.0/2.1





1 / Y ISO HARNESS details

IW - XXX - Y - ISO

Y iso Harness, are developed for each car brands, for better and easer installation for perfect integration.

Specific brands connector, and iso connectors speakers.

Possibility to connect Impulse 4.320 power supply directly with this bracket.

Made for:

Ford, BMW/Mini, Toyota, Nissan Renault, Peugeot/Citroen, VW

Can be used for the following products: Impulse 4.320, Fit 9.660, Ibus 2.0/2.1









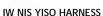


IW FOR YISO HARNESS V2



















IW PSA YISO HARNESS





IW TOY YISO HARNESS V2







IW REN YISO HARNESS





IW VW YISO HARNESS





IW-BMW-Y-ISO-HARNESS

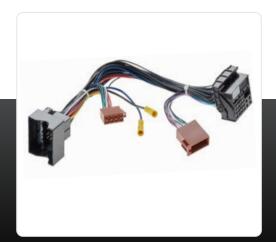




Specific **BMW** and **Mini** harness



lso Connectors









IW-BMW-Y-ISO-HARNESS



Serie 1, 2, 3, 4, 5, 6, 7

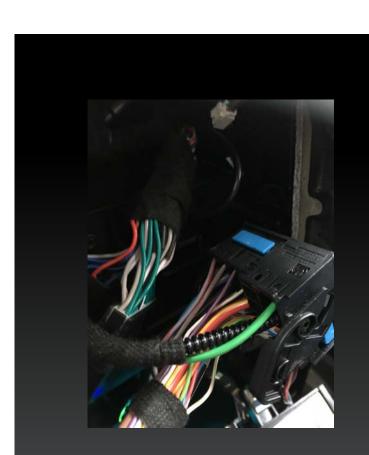
i3 / i8 / Z4

Serie X1, X2, X3, X4, X5, X6, X7



Countryman, Clubman, Cabrio, Roadster, Convertible, Paceman





IW-FORD-Y-ISO-HARNESS

2 différent models



Specific FORD harness



lso Connectors











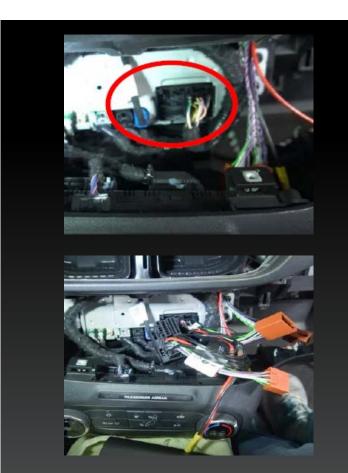
IW-FORD-Y-ISO-HARNESS

2 différent models



Bronco F-150 2021-Fiesta VIII Focus IV Kuga III Puma II Sharp Tourneo Connect 2019-Tourneo Custom 2019-Transit Connect Transit Courier Transit Custom





IW-FORD-Y-ISO-HARNESS V2

2 différent models



Specific FORD V2 harness



lso Connectors













IW-FORD-Y-ISO-HARNESS V2

2 différent models



F-150

D-max

C-max

Ecosport

Edge II

Fiesta VII

Focus III

Galaxis III

Ka+

Kuga II

Mondeo

Mustang -2020

Ranger III

S-max II

Tourneo Connect -2018

Tourneo Courrier -2018

Tourneo Custom -2018

Transit connect -2018

Transit custom -2018





IW-MBZ-Y-ISO-HARNESS



Specific Mercedes harness



lso Connectors













IW-MBZ-Y-ISO-HARNESS



Before 06-2020 USE WITH NGT5 head unit

C class

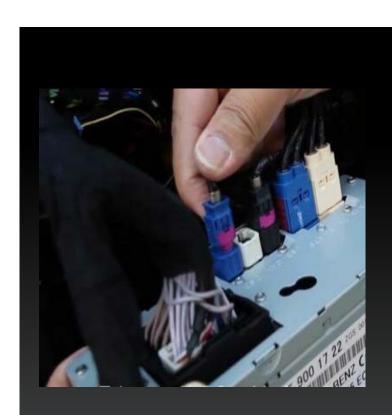
E class

S class

Glc

Glc coupe





IW-NIS-Y-ISO-HARNESS



Specific NISSAN harness



lso Connectors











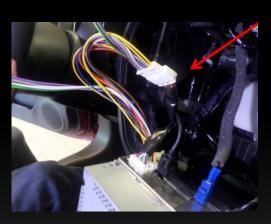


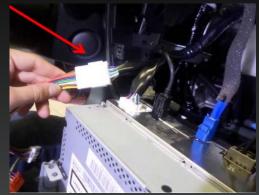
IW-NIS-Y-ISO-HARNESS



350 Z 370 Z Altima Armada Frontier Gt-R Juke Micra Murano Note
Nv 300
Nv 400
Pathfinder
Pulsar
Tiida
Vera
X-trail
X-terra
Urvan







IW-PSA-Y-ISO-HARNESS





Specific PEUGEOT/ CITROEN



Head Unit connector



lso Connectors







IW-PSA-Y-ISO-HARNESS



208 II

308 II

508 II

2008

3008

5008

Expert III

Rifter

Traveler III



Berlingo III
C3 III
C4 grand space Tourer
C4 II
C4 cactus II
C4 space Tourer
C5 aircross
Jumpy III
Space Tourer





IW-REN-Y-ISO-HARNESS







Specific **RENAULT** harness



lso Connectors









IW-REN-Y-ISO-HARNESS



Alaskan Clio

Captur

Espace

Laguna

Megane

Scenic

Twingo II/III

Vel satis

Wind

Zoe

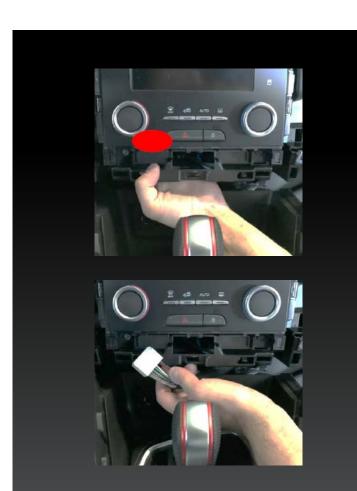


Dokker
Duster
Lodgy
Logan
Sandero



For two
For two cabrio
For two brabus
For four





IW-TOY-Y-ISO-HARNESS







Specific **TOYOTA** harness

Head Unit connector

lso Connectors









IW-TOY-Y-ISO-HARNESS





Ct

Gx

IS

Ls



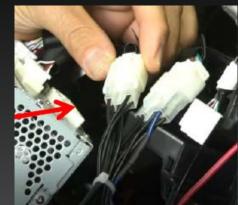
4 Runner	Fortuner
Altis	Gt 86
Auris	Highlander
Avalon	Hilux
Avanza	IQ
C-Hr	Land cruiser
Camry II	Matrix
Celica	Prius
Echo	Pro ace
Fj cruiser	Rav 4

BRZ
Forester IV
Impreza IV
Outback IV
Outback V
Wrx

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IW-TOY-Y-ISO-HARNESS V2

2 différent models







Specific TOYOTA V2 harness



lso Connectors













IW-TOY-Y-ISO-HARNESS V2

2 différent models







4 Runner 2020-

Avalon 2019-

C-Hr 2019-

Camry II 2018-

Corolla 2019-

Highlander 2020-

Rav 4 2019-

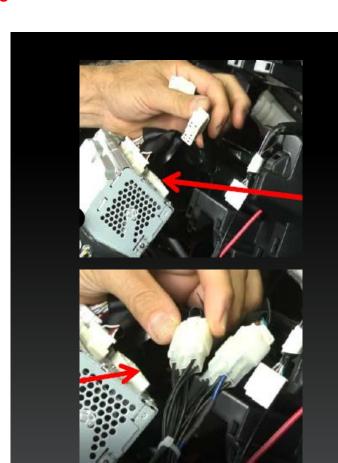
Sequoia 2019-

Sienna 2018-

Tacoma 2019-

Tundra 2020-





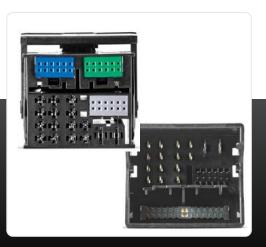
IW-VW-Y-ISO-HARNESS



Specific **VW** harness



Head Unit connector



lso Connectors





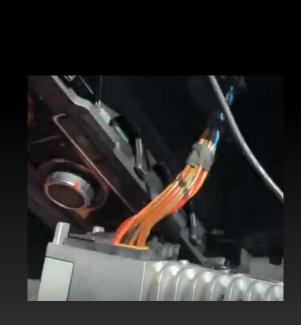


IW-VW-Y-ISO-HARNESS



Golf 7
Polo
Passat
New beetle
Tiguan

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FOCAL INSIDE ELECTRONIC

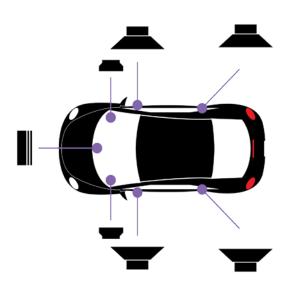


IMPULSE 4.320 cables system



FRONT and REAR SPEAKERS

All brands configuration



Audio: Front and Rear speakers power by Impulse 4x50 W rms

Amplifier: Impulse 4.320

Speakers: Component front

Coaxial rear

Cables:

Head unit harness IW xxx Y ISO HARNESS

Extension cables IW IMP EXT 150

Power cable optional IW PWSUP 600



EXTENSION CABLE 4.0 IW IMP EXT 150

IW – IMP – EXT – 150

Extension cables IMPULSE 4.320

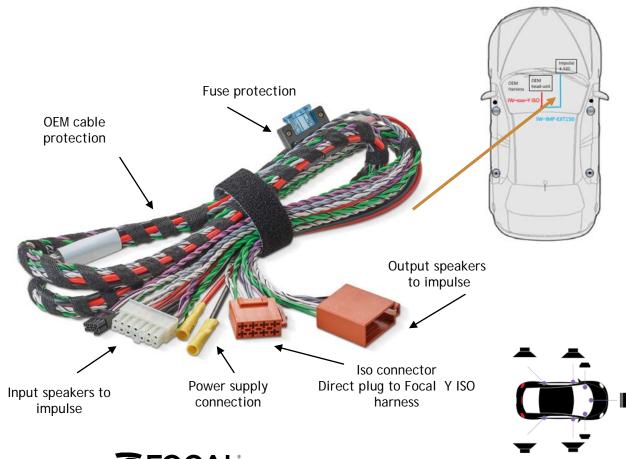
Connect the head-unit harness with ISO connector, in Amplifier IMPULSE 4.320 with specific connectors.

With the iso connector we recover the signal at the iso output of the car head unit, and after amplifying it we send it back to the front and rear doors speakers, using the original car harness.

This cable simply the impulse connection in each car. The IMPULSE 4.320 amplifier allows you to amplify the front speakers and rear speakers with its 4 channels.

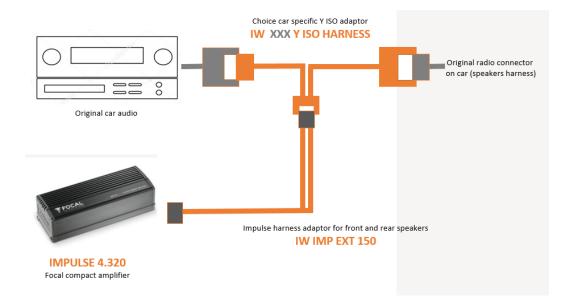
4x50 Wrms for front and rear speakers

If the power supply allows you to directly connect the impulse to the dedicated connectors of the Focal Y ISO harness. The search for position and ground power is then completely simplified.





Cable explication



Choice the harness référence on Focal Inside compatibility list





































IWIMPEXT150

It is very easy to upgrade the sound of your car, from the original car radio.

Have installed a cable behind the car radio on the original connectors.

Our Y ISO Harness adaptor sends the audio signal to our dedicated cable of the chosen audio solution.

Direct plug play on the Impulse 4.320 amplifier and amplify front and rear speakers.

it remains to connect a Ground and the power supply and the installation is ready.

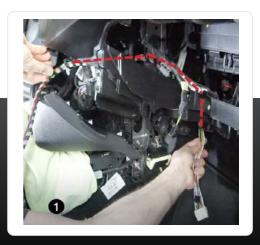


IW-IMP-EXT-150

Impulse cable 1,5mt long



Power supplier connection









Set-up 2: Speakers replacement with IMPULSE amplifier













Choice your Brand cable

IW IMP EXT 150

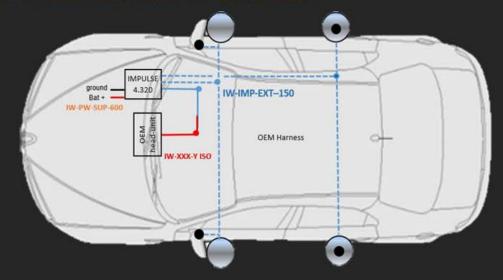
Front and Rear speakers

IMPULSE 4.320

Speakers replacement

Choice your brand speakers

DEDICATED INTEGRATION CABLES

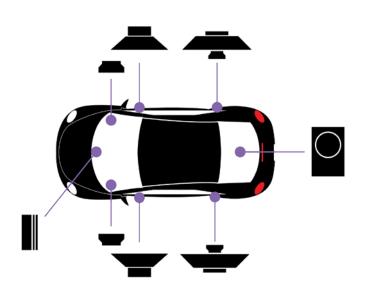


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FRONT and ONE SUBWOOFER

All brands configuration



Audio: Front and Rear subwoofer power by Impulse 2x50 + 1 x 160 W rms

Amplifier: Impulse 4.320 Speakers: Component front

PSB200 subenclosure

Coaxial rear (power by head-unit)

Cables:

Head unit harness IW xxx Y ISO HARNESS

Extension cables IW IMP 2.1

Power cable optional IW PWSUP 600



IW – IMP – 2.1

Extension cables IMPULSE 4.320

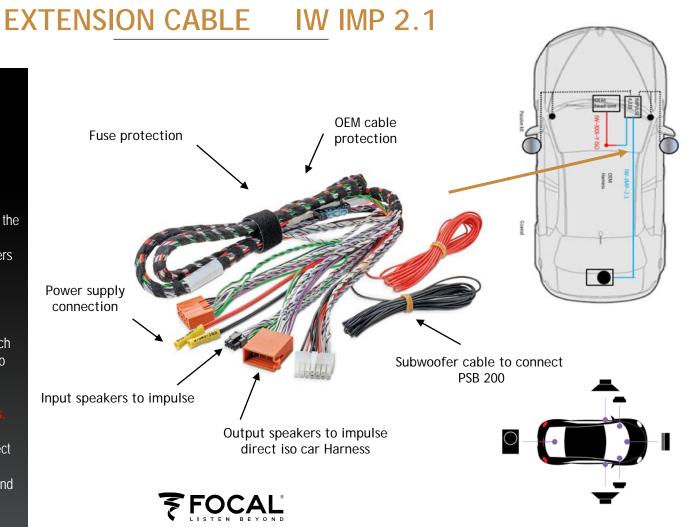
Connect the head-unit harness with ISO connector, in Amplifier IMPULSE 4.320 with specific connectors.

With the iso connector we recover the signal at the iso output of the car head unit, and after amplifying it we send it back to the front speakers using the original car harness. 2 rear channel Impulse are bridge to mono for manage subwoofer box, PSB 200.

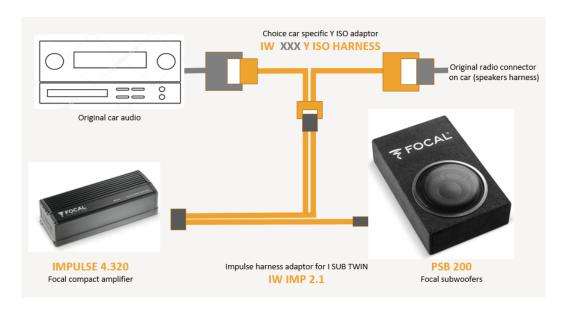
This cable simply the impulse connection in each car. The IMPULSE 4.320 amplifier allows you to amplify the front speakers and subwoofer box with its 3 channels.

2x50w front 1 x160w rms bridge subwoofers

If the power supply allows you to directly connect the impulse to the dedicated connectors of the Focal Y ISO harness. The search for position and ground power is then completely simplified.



Cable explication



Choice the harness référence on Focal Inside compatibility list



Focal Head unit Harness solution Y iso cables

































IW IMP 2.1

It is very easy to upgrade the sound of your car, from the original car radio.

Have installed a cable behind the car radio on the original connectors.

Our Y ISO Harness adaptor sends the audio signal to our dedicated cable of the chosen audio solution.

Direct plug play on the Impulse 4.320 amplifier and on sub boxes PSB200.

Direct bridge subwoofer mode.

it remains to connect a Ground and the power supply and the installation

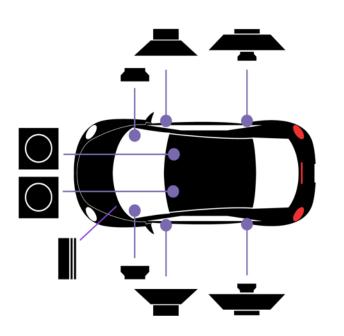
Full pack: Speakers replacement with IMPULSE amplifier and PSB 200



DEDICATED INTEGRATION CABLES IMPULSE ground . 4.320 IW-IMP-EXT-2.1 IW-PW-SUP-600 **OEM Harness** IW-XXX-Y ISO Rear speakers on head unit

FRONT and TWO SUBWOOFERS

All brands configuration



Audio: Front and i sub twin power by Impulse 2x50 + 2 x80 W rms (2 ohms subwoofers)

Amplifier: Impulse 4.320 Speakers: Component front

> **ISUB TWIN** subwoofers 2 ohms Coaxial rear (power by head-unit)

Cables:

Head unit harness IW xxx Y ISO HARNESS

Extension cables IW IMP 2.2

Power cable optional IW PWSUP 600



EXTENSION CABLE IW IMP 2.2

IW - IMP - 2.2

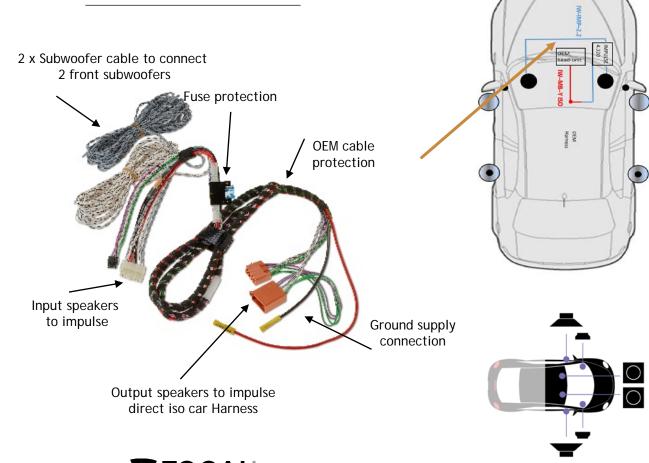
Extension cables IMPULSE 4.320

Connect the head-unit harness with ISO connector, in Amplifier IMPULSE 4.320 with specific connectors.

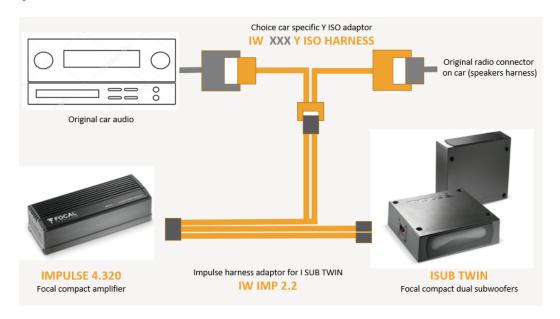
With the iso connector we recover the signal at the iso output of the car head unit, and after amplifying it we send it back to the front speakers using the original car harness. 2 rear channel Impulse can manage 2 front subwoofers, better with 20hms speakers.

This cable simply the impulse connection in each car. The IMPULSE 4.320 amplifier allows you to amplify the front speakers and front subwoofers 2x50w front 2 x80w rms 2ghms subwoofers

If the power supply allows you to directly connect the impulse to the dedicated connectors of the Focal Y ISO harness. The search for position and ground power is then completely simplified.



Cable explication



Choice the harness référence on Focal Inside compatibility list



















IW IMP 2.2

It is very easy to upgrade the sound of your car, from the original car radio.

Have installed a cable behind the car radio on the original connectors.

our Y ISO Harness adaptor sends the audio signal to our dedicated cable of the chosen audio solution.

Direct plug play on the Impulse 4.320 amplifier and on the two twin sub boxes with IW IMP 2.2 cable.

it remains to connect a Ground and the power supply and the installation is ready.























FULL Pack: Speakers replacement with IMPULSE amplifier and ISUB TWIN



Choice your Brand cable

m

DEC:

FOCAL / PRESENTATION

IMPULSE 4.320

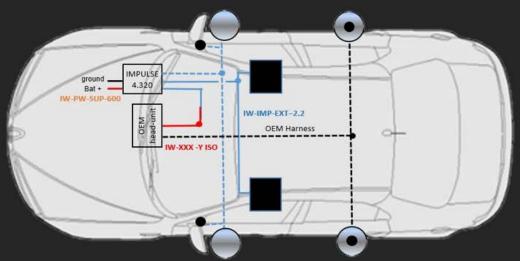
Speakers replacement

Choice your brand speakers

I SUB TWIN

Front and 2 subwoofers

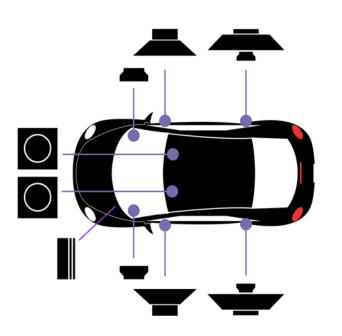
DEDICATED INTEGRATION CABLES



* Rear speakers on head unit

MERCEDES FRONT and TWO SUBWOOFERS

Configuration with NGT5



Audio: Front and isub MBZ 2 power by Impulse 2x50 + 2 x80 W rms (2 ohms subwoofers)

Amplifier: Impulse 4.320 Speakers: Component front

> ISUB MBZ 2 subwoofers 2 ohms Coaxial rear (power by head-unit)

Cables:

Head unit harness IW MBZ Y ISO HARNESS

Extension cables IW IMP 2.2

Power cable optional IW PWSUP 600



EXTENSION CABLE IW IMP 2.2

IW - IMP - 2.2

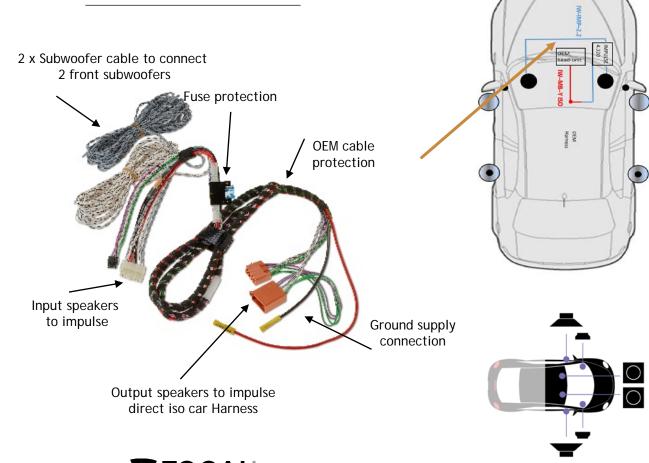
Extension cables IMPULSE 4.320

Connect the head-unit harness with ISO connector, in Amplifier IMPULSE 4.320 with specific connectors.

With the iso connector we recover the signal at the iso output of the car head unit, and after amplifying it we send it back to the front speakers using the original car harness. 2 rear channel Impulse can manage 2 front subwoofers, better with 20hms speakers.

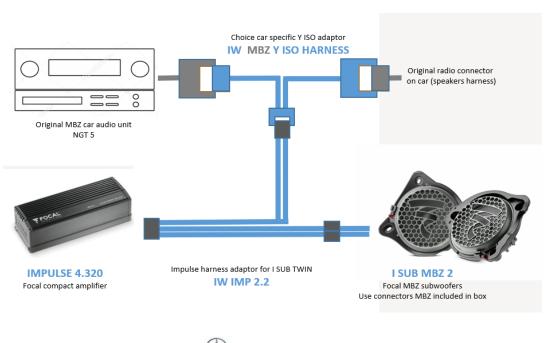
This cable simply the impulse connection in each car. The IMPULSE 4.320 amplifier allows you to amplify the front speakers and front subwoofers 2x50w front 2 x80w rms 2ghms subwoofers

If the power supply allows you to directly connect the impulse to the dedicated connectors of the Focal Y ISO harness. The search for position and ground power is then completely simplified.



Cable explication

Control the harness référence on Focal Inside compatibility List, Word Only with NGT5 Mercedes head unit, before 06/2019



IW IMP 2.2

It is very easy to upgrade the sound of your car, from the original car radio.

Have installed a cable behind the car radio on the original connectors.

our Y ISO Harness adaptor sends the audio signal to our dedicated cable of the chosen audio solution.

Direct plug play on the Impulse 4.320 amplifier and on the two twin sub boxes with IW IMP 2.2 cable.

it remains to connect a Ground and the power supply and the installation is ready.



Focal Head unit Harness solution Y iso cables



Mercedes Warning

Harness compatible with Mercedes with NGT5 head unit Model before 2019/2020, with fakra connector.

C	class w205	02/2014 – 06/2020
E	class w213	04/2016 - 06/2020
GLC	class 253/x253	06/2015 - 04/2019
S	class w222	05/2013 - 06/2020

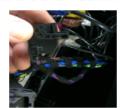
Warning:

After 2020 Mercedes use a Quadlock connector with second subwoofer connector for advance option.

Quadlock connector



Subwoofer connector



IW MBZ Y ISO HARNESS



Set up Mercedes: Speakers replacement with IMPULSE amplifier and ISUB MBZ 2

















IW MBZ Y ISO HARNESS

Control your compatiblity car

IW IMP 2.2 HARNESS

Front and 2 subwoofers

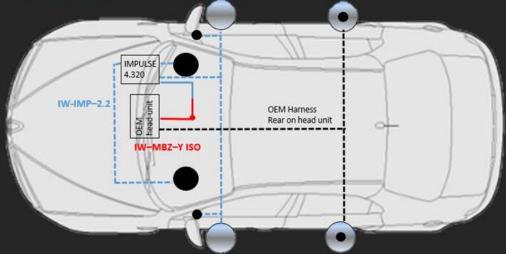
IMPULSE 4.320

Speakers replacement

Choice your speakers

I SUB MBZ 2
Only for left hand driver

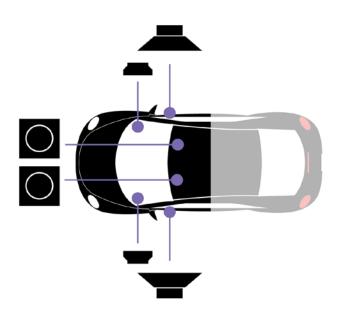
DEDICATED INTEGRATION CABLES



* Rear speakers on head unit

DEC:

BMW FRONT and TWO SUBWOOFERS



Audio: front and rear speakers power by Impulse 2x 50w + 2x 80w rms (2 ohms)

Amplifier: Impulse 4.320 Speakers: Component front

Front BMW subwoofers 20hms

Coaxial rear (power by head-unit)

Cables:

Extension cables IW BMW IMP 2.1

Power cable optional IW PWSUP 600



2 / EXTENSION CABLE IMPULSE 4.320

OFM cable protection

IW - BMW - IMP - 2.1

Extension cables IMPULSE 4.320

This BMW 2.1 cable for the impulse uses a specific connection. it takes the car radio signal directly from the subwoofers connector under the front seats.

This signal is sent in the impulse and manage to amplify the front speakers of the car, and the both subwoofers under the seats.

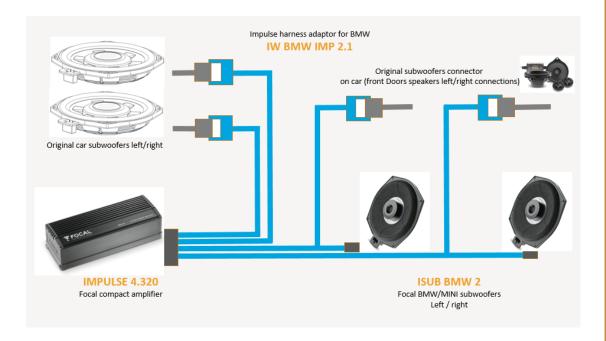
All adjustments, crossover, levels, phase, are made in the Impulse 4.320.

No need to dismantle the car radios of bmw, this type of assembly saves a lot of installation time,

are really amasing with a simply never seen.

Power supply connection it's simple and very effective, the performances Input speakers to impulse Output speakers to impulse direct to bmw subwoofers 2 plugs for power supply use IW POW SUP 600

Cable explication





This cable is compatible with cars with 4 wires in the subwoofer connectors under the seats.

IWBMWIMP2.1

On standard BMW audio versions, the audio signal from the front doors is parallel to the front subwoofers.

The audio signal coming out of the car radio goes through the subwoofers under the seats to go into the doors.

Our IW BMW IMP 2.1 focal cable allows to recover the signal on this BMW sub connectors, left and right.

Direct to amplify it with our impulse 4.320.

to separate it, 2 channels for the front doors, and two channels for the two subwoofers left and right.

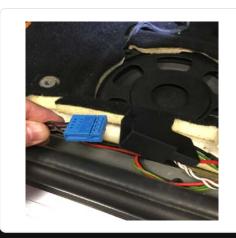
With the settings of the impulse, this will give you an extraordinary update, and simply without disassembling the car radio.

IW BMW IMP 2.1

Signal take under front seat



OEM BMW connector adapter



Compact size amplifier





FULL pack: Speakers replacement with IMPULSE amplifier and I SUB BMW 2















IW BMW IMP 2.1 HARNESS

IMPULSE 4.320

BMW Speakers replacement

I SUB BMW 2 2 ohms subwoofers

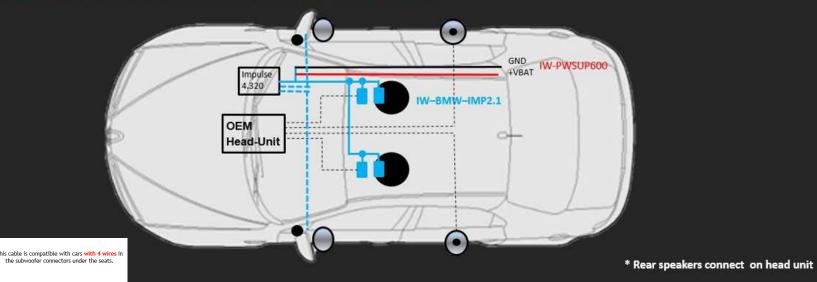
Choice your speakers size

IS/IC BMW 100/100L

IW 100/100I

Front and 2 subwoofers

DEDICATED INTEGRATION CABLES



BEET

IW - PW - SUP 600

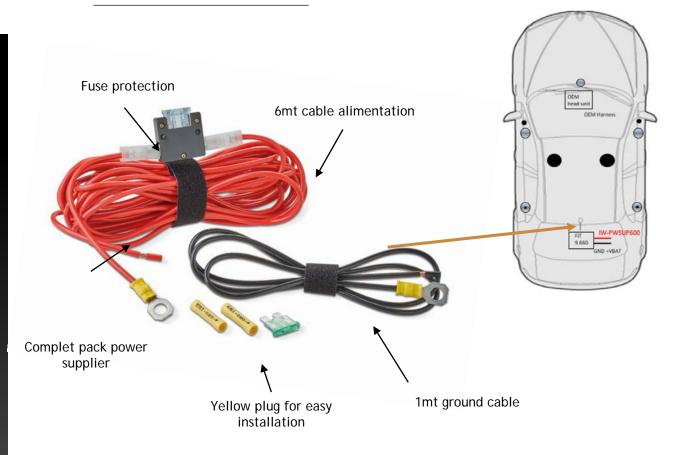
Power Supplier pack Fit 9.660/ Impulse 4.320

Complet pack for power alimentation and ground connection.

Use by Fit 9.660 and Impulse 4.320.

6mt cable red alimentation. 1mt cable black ground. 2 yellow plug connexion. Fuse protection.

4 / POWER SUPPLIER





4 / SIMULATOR SPEAKERS CABLE

IW – SPKSIM – ISO speakers

Speakers simulator Impulse 4.320

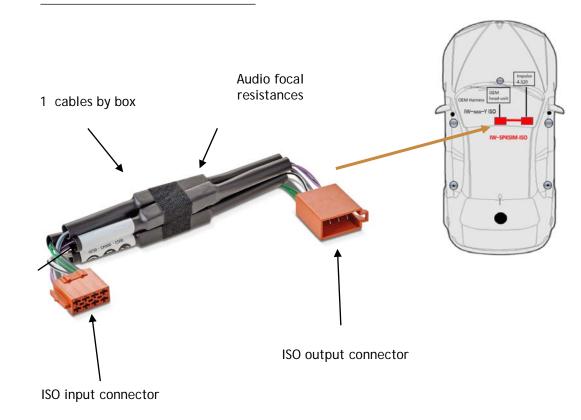
Some models of cars, when we change the original speakers, and adding an amplifier, it happens that it brings some problems. like losing the front / rear fader.

To solve this type of problem, we have developed a speaker simulator with audio resistance.

this cable easily plugs into the ISO connectors of our harness speakers. and remove audio faults.

simple and efficient

Can be use to Impulse 4.320, and Ibus 2.0/2.1





CABLE LIST

