

INTEGRATION IBUS 2.1 - FLAT SUBWOOFER + 2 CHANNELS AMPLIFIER / User manual

English version

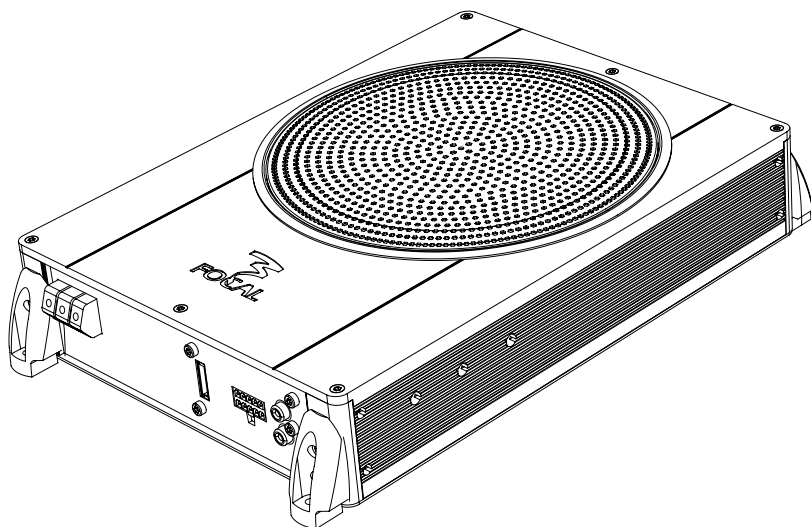
Thank you for choosing Focal and for sharing our passion for the "Spirit of Sound". To obtain the best results from this product, we recommend that you follow carefully all the information contained in this user's manual. If not correctly followed, any fault observed may not be covered by the guarantee.

Warning

Continuous listening at high sound level (above 110dB) can durably damage your hearing.

Listening above 130dB can damage your hearing permanently.

The Focal guarantee only applies if the enclosed guarantee card is returned to us within 10 days of purchase.



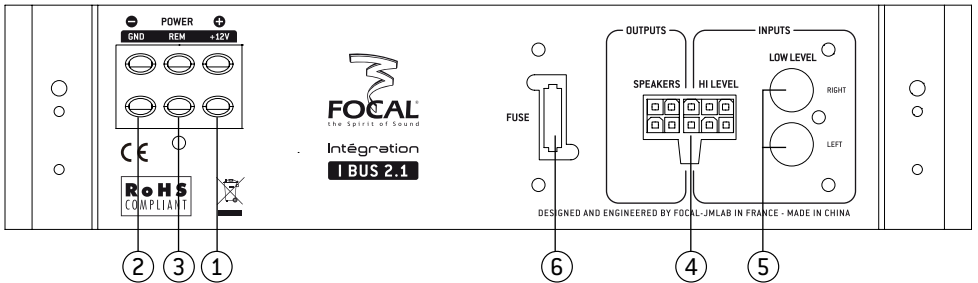
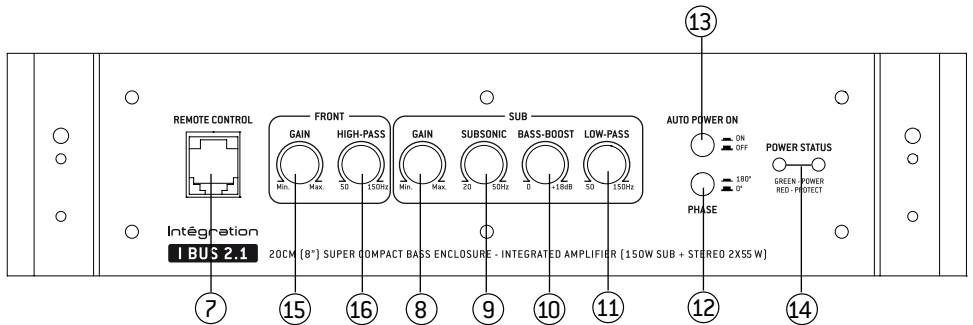
**FOCAL**
the Spirit of Sound

CE

Focal-JMlab® - BP 374 - 108, rue de l'Avenir - 42353 La Talaudière cedex - France - www.focal.com
Tel. (+33) 04 77 43 57 00 - Fax. (+33) 04 77 43 57 04

Due to constant technological advances, Focal reserves its right to modify specifications without notice. Images may not conform exactly to specific product..

INTEGRATION IBUS 2.1 - FLAT SUBWOOFER + 2 CHANNELS AMPLIFIER / User manual



- ① **+12V:** The +BATT power supply connector is dedicated to receiving the power supply cable ensuring the link between the amplifier and the positive (+) terminal of the battery.
- ② **GND:** The GND power supply connector (ground) is dedicated to receive the negative power supply wire linking the amplifier and the vehicle chassis.
- ③ **REM:** The REM connector ensures the link between the IBUS 2.1 and the source (the car radio) via a REM or REMOTE output of the car radio. It permits to automatically switch on the amplifier as soon as the source (the car radio) is turned on). In some cases, the original head unit (OEM) does not have the remote wiring so they cannot send a signal for the start up of the IBUS2.1 enclosure. We advise to put out the cable of the ISO plug and connect the blue cable on a "plus" terminal after contact. Be careful to put off the AUTOPOWER ON connector (Nb 13). If you do not follow these guidelines, the IBUS2.1 may not give optimum performance.

INTEGRATION IBUS 2.1 - FLAT SUBWOOFER + 2 CHANNELS AMPLIFIER / User manual

3

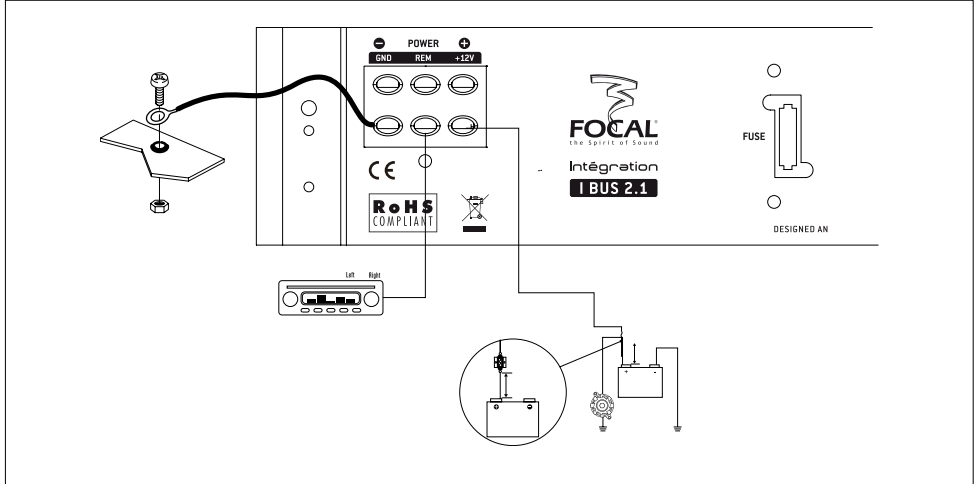
- ④ **OUTPUT/HI LEVEL INPUT** : The output/high level terminal permits to connect the source with high-level signal but also to lead the bass enclosure amplified signal towards the speakers (left part : "OUTPUT")
In the case of a RCA connection, you must disconnect the plug on the cable beam. These outputs permit to amplify your front channels (a 2-way kit) with a very high power (2x55W RMS). CAUTION: you must respect this order, if not you might damage the product.
- ⑤ **INPUT**: The RCA sockets permit to convey the low level signal of the head unit to the amplifier.
- ⑥ **FUSE**: The FUSE connector is dedicated to receive the fuse(s) of the amplifier. In case of replacement, make sure of the perfect conformity of the amperage.
- ⑦ **REMOTE CONTROL PLUG**: the REMOTE CONTROL connector is dedicated to the wiring of the remote control supplied.
- ⑧ ⑬ **GAIN**: The GAIN rotary potentiometer permits to adjust the signal level coming in the amplifier. The tension gain varies from 0.2V to 5V.
- ⑨ **SUBSONIC**: The SUBSONIC rotary potentiometer permits to set the high-pass filter value. The chosen value defines the frequency from which the signal is amplified.
- ⑩ **BASS BOOST**: The BASS BOOST rotary potentiometer permits to increase the bass level from 0 to +18dB. The central frequency is 80Hz.
- ⑪ **LO PASS**: The LO PASS rotary potentiometer permits the setting of the low-pass filter value. The selected value defines the frequency until which the signal is amplified.
- ⑫ **Hi PASS** : The HI-PASS rotary potentiometer permits to adjust the high-pass filter value (the amplification is ensured up to the selected value).
- ⑬ **PHASE**: The PHASE selector permits to adjust the phase setting of the bass channel according to the installation. To determine the correct position of this inverter, simply check if it provides the maximum of bass frequencies.
- ⑭ **Auto Power On**: In ON mode, it's not necessary to connect the remote cable if you're using the high level inputs. Do not function with the RCA inputs. However, we prefer the direct remote wiring on a "plus after contact" (cf Nb 3).
- ⑮ **LED**: The light indicator permits to check the correct working of the amplifier. When the LED is green, it means the amplifier is on and it's working correctly. When the LED is red, it means the amplifier is in protection mode following a dysfunction (overheating, wrong wiring, ...).

Conditions of guarantee

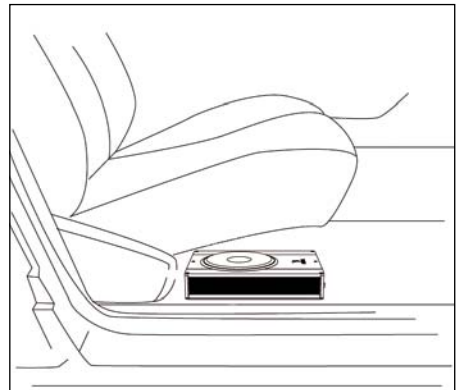
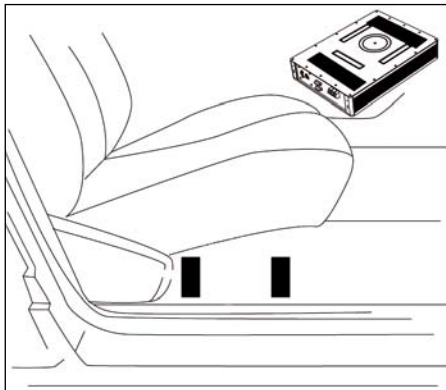
All Focal loudspeakers are covered by guarantee drawn up by the official Focal distributor in your country. Your distributor can provide all details concerning the conditions of guarantee. Guarantee cover extends at least to that granted by the legal guarantee in force in the country where the original purchase invoice was issued.

INTEGRATION IBUS 2.1 - FLAT SUBWOOFER + 2 CHANNELS AMPLIFIER / User manual

Traditional wiring:



Installation



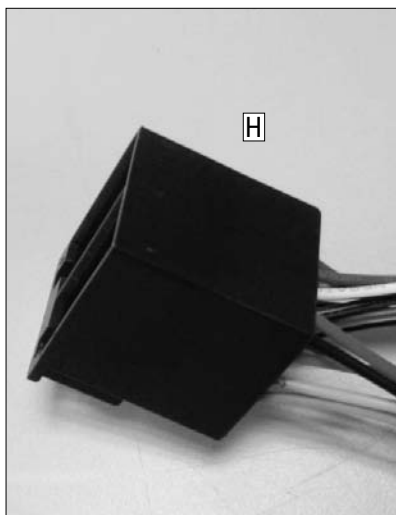
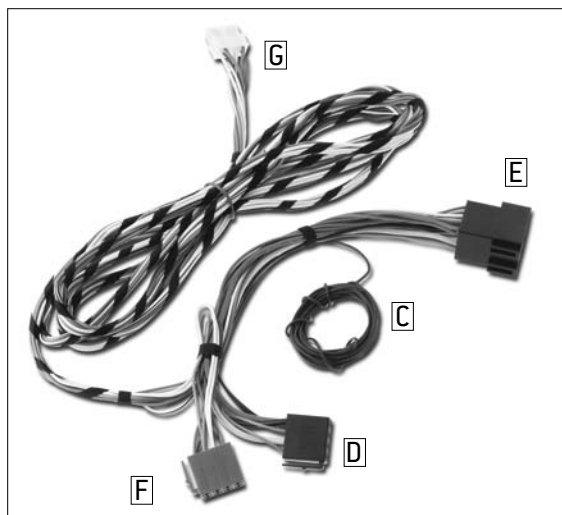
If your car radio is without ISO connector, you must get an ISO adapter.

Photo legend page 12

A	Power supply wire +12 Volts (Red)	F	Speaker connector
B	Ground cable (Black)	G	High level connector
C	Remote cable (Blue)	H	Power supply connector and car speakers
D	Power supply connector	I	Car radio connectors
E	Power supply connector and speakers	J	Remote control wire
		K	Remote control

CONNECTION / CONNEXION

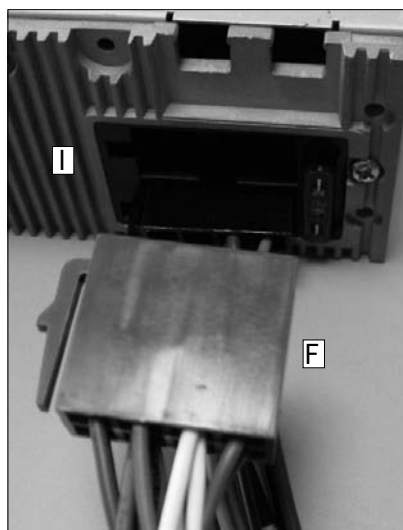
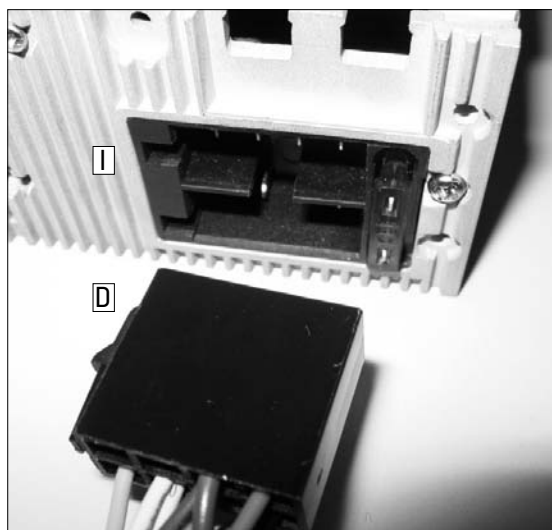
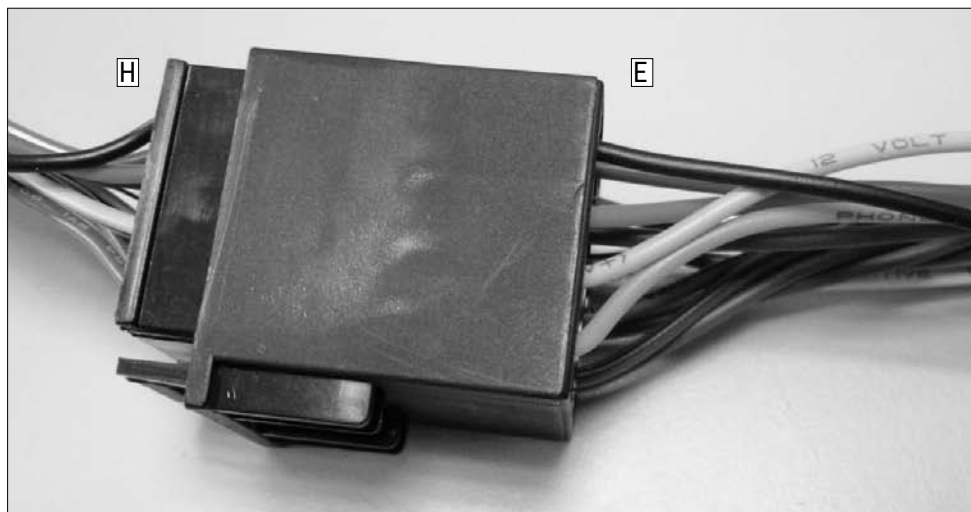
User manual / Manuel d'utilisation



CONNECTION / CONNEXION

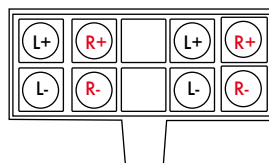
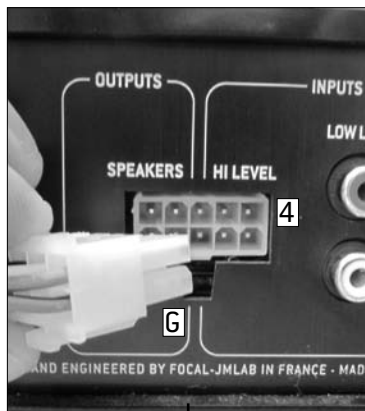
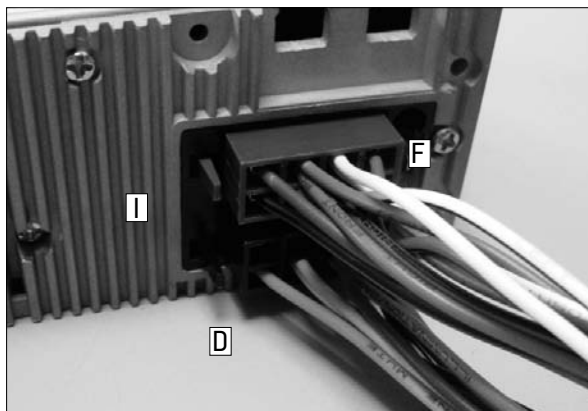
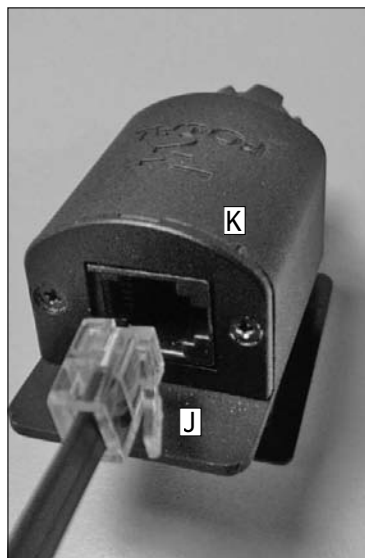
User manual / Manuel d'utilisation

11



CONNECTION / CONNEXION

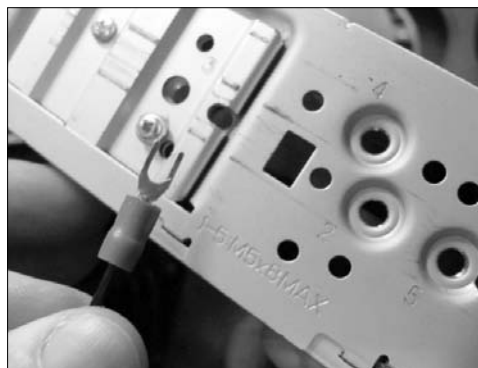
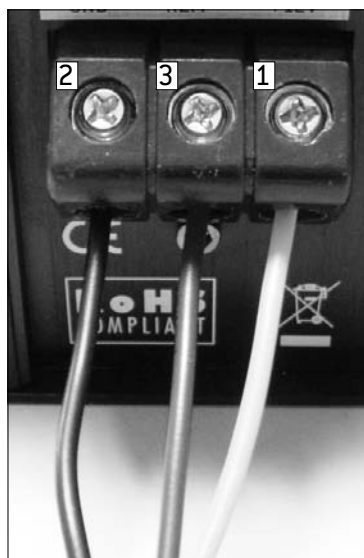
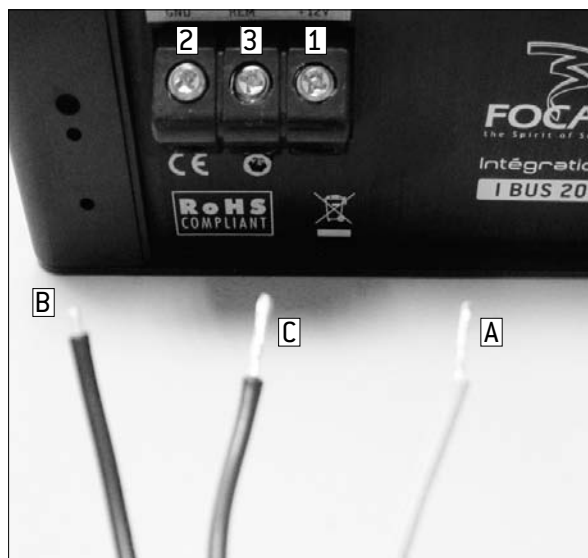
User manual / Manuel d'utilisation



CONNECTION / CONNEXION

User manual / Manuel d'utilisation

13



Ground wiring on the source (black wire on beam). Cancel echo effects and parasitic interference.
Câblage de la masse sur auto-radio (fil noir sur faisceau). Supprime les effets échos et les bruits parasites.

CONNECTION / CONNEXION

User manual / Manuel d'utilisation

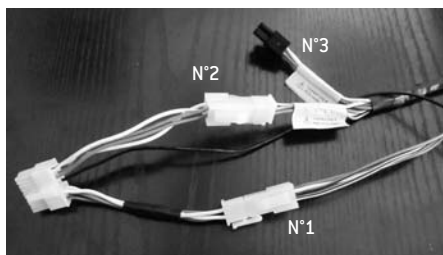
14

Please refer to the technical information below for the configuration of your Plug and Play cable according to your type of car head unit. Optimal operation of the product can only be guaranteed if these instructions are respected and applied. Connecting methods in the case of ISO-standard or FAKRA-standard car head unit (in this case, the ISO/FAKRA Y-cable for the brand of your vehicle will be required).

Merci de vous référer aux informations techniques ci dessous pour la configuration de votre câble Plug and play, selon votre type d'autoradio.

Le fonctionnement optimal du produit ne peut être garanti que si ces consignes sont respectées et appliquées.

Modes de raccordement dans le cas d'un autoradio au stand ISO ou d'un autoradio au standard Fakra (dans ce cas, le "y" ISO/FAKRA à la marque de votre véhicule vous sera indispensable)



N°1 Input High level plug
N°2 High level "mode" plug
N°3 RCA "mode" plug

N°1 - Prise d'entrées haut niveau
N°2 - Prise de "mode haut niveau"
N°3 - Prise de "mode RCA"

"High level mode"

You used the speaker outputs of your head unit
(original model)

"Mode Haut niveau"(par défaut)

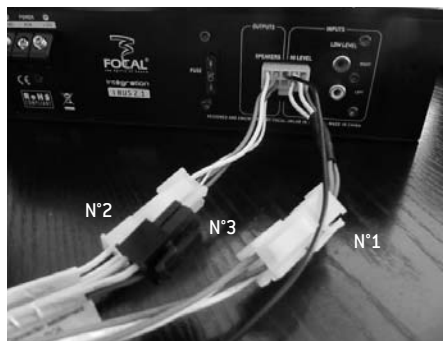
Vous utilisez les sorties haut parleur de votre autoradio.
(par exemple tous les autoradios d'origine sans connecteur
RCA)

"RCA mode"

You used the RCA outputs of your head unit
(after market model)"

Mode RCA"

Vous utilisez les sorties RCA de votre autoradio
(type after market)



N°1: Plugged
N°2: Plugged
N°3: Not Plugged

N°1 : Connecté
N°2 : Connecté
N°3 : Non connecté



N°1: Not Plugged
N°2: Not plugged
N°3: Plugged

N°1 : Non connecté
N°2 : Non connecté
N°3 : Connecté