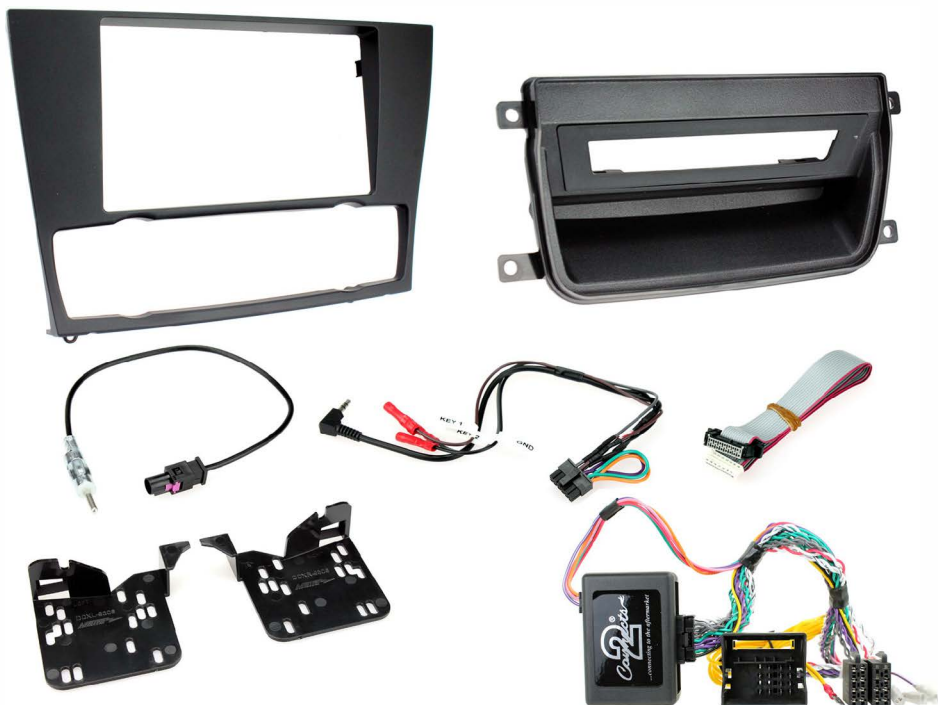


# THE COMPLETE INSTALLATION KIT BMW

## CTKBM01



### This Kit Contains:

- Black Fascia Panel
- Ashtray Button Relocation Panel
- Extension Harness
- CAN-Bus Steering Wheel Control Interface
- Fakra Antenna Adapter
- Universal Patch Lead

[www.connects2.com](http://www.connects2.com)

**Connects**<sup>®</sup>  
**2**

The CTKBM01 Complete Installation Kit from Connects2 allows for the installation of a double DIN aftermarket stereo whilst retaining the vehicle's heated seat button array, antenna connection, steering wheel control functions, parking sensor audio and factory phone buttons for call pick-up/hang-up. This kit is for non-amplified vehicles with automatic air conditioning only.

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## APPLICATION

### BMW

3 Series (E9\* Variants) 2005 - 2012

For non-amplified BMW vehicles with automatic air conditioning only

## PRIOR TO INSTALLATION

Read the manual prior to installation. Technical knowledge is necessary for installation. The place of installation must be free of moisture and away from heat sources. Please ensure that the correct tools are using during the installation to avoid damage to the vehicle or product. Application data and/or product functionality is subject to change at any time **Connects2 can not be held responsible for the installation of this product.**

## PREPARATION - STEREO REMOVAL

**NB: Before removing the factory radio, make sure that the vehicle ignition is turned off.**

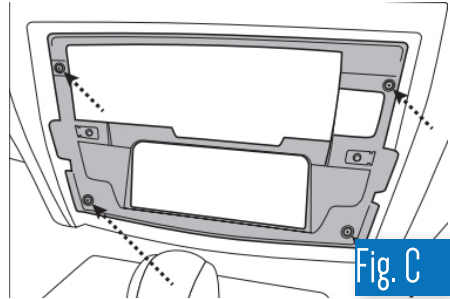
- 1 Firstly, use a Panel Removal Tool to unclip the climate control panel. Unplug all connections to the panel and remove (**Fig. A**)



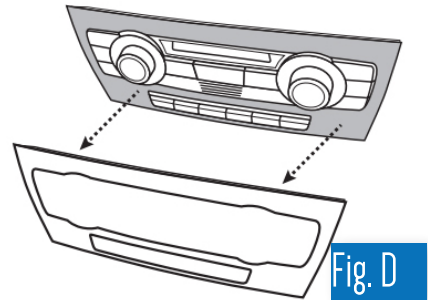
- 2** Remove the two (2) screws from below the stereo using a screwdriver (**Fig. B**)



- 3** Remove the four (4) screws from the bracket behind the climate control panel and remove the stereo (**Fig. C**)

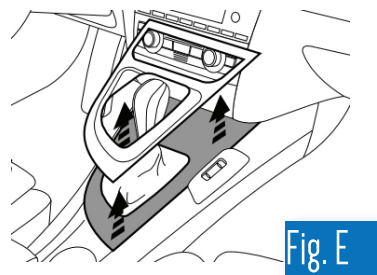


- 4** Remove the climate control array from its trim panel (**Fig. D**)



## PREPARATION - HEATED SEAT BUTTONS

- 5** Use a Panel Removal Tool to unclip the trim panel around the gear stick and remove the panel. Use a screwdriver to remove the four (4) screws attaching the ash tray assembly to the vehicle (**Fig. E**)



- 6** Unclip the heated seat buttons from the climate control panel
- 7** Remove the five (5) screws from the back of the heated seat buttons and remove the circuit board. Unplug the factory harness from the board and connect the included extension harness (**Fig. F**)
- 8** Reassemble the heated seat button panel

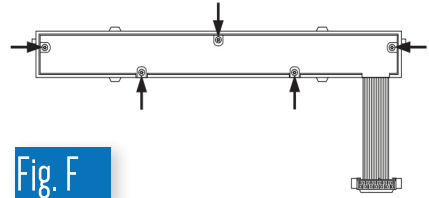


Fig. F

**Need help? If when you read these instructions or at any point during installation you need help, Halfords 'weFit' service is here for you. Please contact your local store for details**

**NB: Keep any clips, screws and parts from the disassembly process for potential reuse when fitting.**

Progress to "Kit Assembly - Preliminary"



## KIT ASSEMBLY - PRELIMINARY

- 9** Attach the included brackets to the right and left sides of the new stereo (**Fig. G**)
- 10** To prepare the button relocation panel, clip the trim panel into the pocket from the front, and push the heated seat button panel in from behind (**Fig. H**). Reattach the full relocation panel assembly to the gear stick trim panel using the screws removed during Step 5.



Fig. G

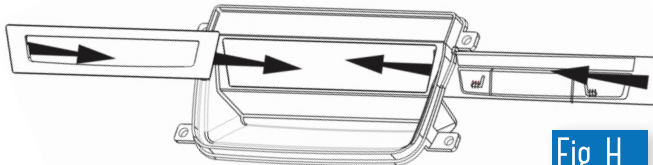


Fig. H

**NB: Before moving on, make sure that the extension harness is accessible - this will be routed through the left side of the dash cavity before final assembly and connected to the climate controls.**



# PREPARING THE PATCH LEAD

To correctly configure the interface for installation, the included patch lead (CTMULTILEAD.2) must be set according to the below information, in relation to the type of aftermarket stereo being installed in the vehicle.

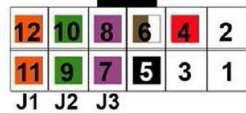
See the diagram below for examples of which loops to cut and which connector type to use for all main brands of aftermarket stereo

## Configuration Assignments (1=Link made, 0=No Link)

J1	J2	J3	Systems	Connector
1	0	0	JVC	Jack/Key1
0	1	0	BEAT/Philips/Nakamichi	Key1
1	1	0	Clarion	Jack
0	0	1	Kenwood	Key1
1	0	1	Alpine	Jack
0	1	1	Panasonic	Key1
1	1	1	Sony/LG/Pioneer	Jack
1 (Pin12)	1 (Pin10)	0	Zenec	Key1
1	1	1	Chinese Learning Brands	Key1, Key2, GND

## Pin Configuration

Pin 1	Description
1	Reserved
2	Reserved
3	Reserved
4	Analog 2 Swc
5	GND Swc
6	Analog 1 Swc
7	Link J3
8	Link J3
9	Link J2
10	Link J2
11	Link J1
12	Link J1

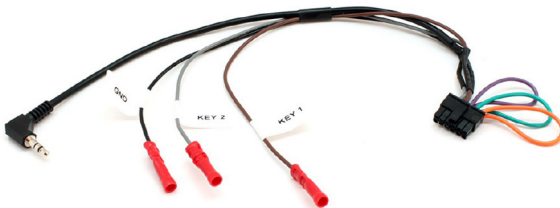


Here are some Examples of how to make various patch Leads:

**Example 1: Alpine** - Remove Link J2 then use the Jack connector into radio.

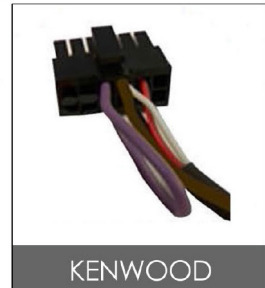
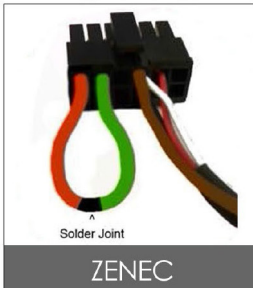
**Example 2: Kenwood** - Remove Link J1 and J2, use the wire connector to Radio.

**Example 3: Zenec** - Remove Link J3, Cut Orange and Green then solder top row (Pin 12 & 10) together and insulate. Use the Wire connector to Radio.



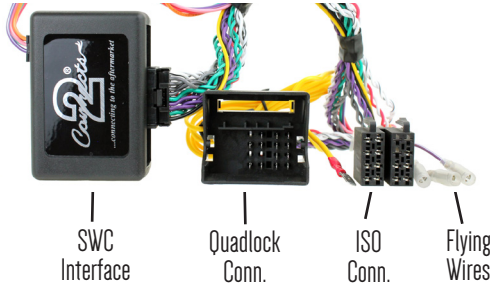
**NB:** When cutting loops on the CTMULTILEAD.2, please ensure that the bare wire ends are insulated

## Examples:



## INSTALLING THE STEERING WHEEL CONTROL INTERFACE

The steering wheel control functions of the original vehicle - which are lost during removal of the factory system - can be retained through the correct installation of the interface included in this kit. Please read these instructions carefully to ensure that your system will work well following the installation.



**11** Connect the 12 Pin black connector of the patch lead to the interface.

**12** Connect the opposite end of the patch lead to the steering wheel control input on the back of the new stereo.

**NB:** This may be a 3.5mm jack plug or a wire input depending upon the stereo brand being fitted. Please see the stereo installation manual for further information on where to connect.

### IMPORTANT

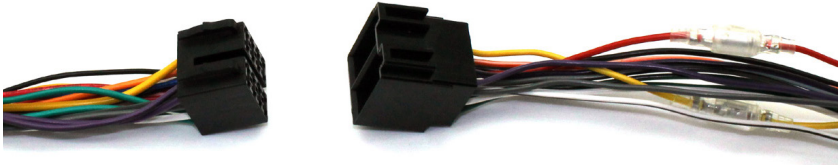
**This step must be completed before connecting power to the interface. Failure to do so may result in no steering wheel control function.**



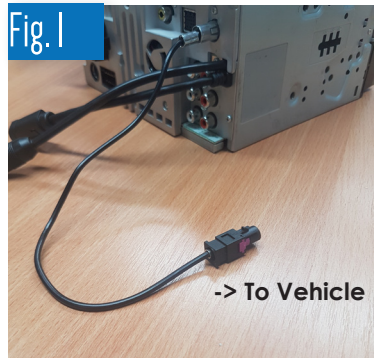
**13** Make both connections from the wiring loom to the interface as shown



- 14** Connect the male power/speaker ISO harness to the female power/speaker ISO harness from the aftermarket stereo. For aftermarket stereos without an ISO connector and for connecting optional inputs, please refer to "Wiring Colour Codes" overleaf



- 15** Connect the included antenna adapter to the vehicle's fakra connector and the aftermarket stereo's DIN connector (Fig. 1)



## WIRING COLOUR CODES

PURPLE	RIGHT REAR SPEAKER +	BLACK	GROUND
PURPLE/BLACK	RIGHT REAR SPEAKER -	RED	12V IGNITION
GREEN	LEFT REAR SPEAKER +	ORANGE	ILLUMINATION
GREEN/BLACK	LEFT REAR SPEAKER -	PINK	SPEED PULSE
GREY	RIGHT FRONT SPEAKER +	GREEN	PARK BRAKE
GREY/BLACK	RIGHT FRONT SPEAKER -	PURPLE/WHITE	REVERSE GEAR
WHITE	LEFT FRONT SPEAKER +	YELLOW	CONNECT TO 12V
WHITE/BLACK	LEFT FRONT SPEAKER -		PERMANENT SOURCE

Continue to "Kit Assembly - Final Installation"



## KIT ASSEMBLY - FINAL INSTALLATION

- 16** Place the stereo into the dash and connect the extension cable from the heated seat button panel to the climate control panel (**Fig. J**).

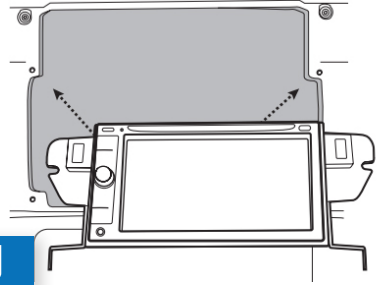


Fig. J

- 17** Push the climate control panel into the dash underneath the stereo until it is back as far as possible (**Fig. K**). Replace the gear stick trim panel removed in Step 5.

**NB:** Before final installation, temporarily rest the stereo inside the dashboard and test functions (e.g. radio reception etc) before pushing the stereo into place to complete the fitting.

- 18** Surround the stereo and climate control panel with the double DIN fascia and screw into position. See screw points circled (**Fig. L**). Reassemble the dashboard in reverse order of disassembly to complete the installation (**Fig. M**).



Fig. L



Fig. K



Fig. M