

# Installation and Operating Instructions for the Remote Control Hood / Remote Controlled Hood with One Touch functionality Module. For the BMW E85

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## Disclaimer

All work carried out is undertaken at your own risk, neither gapTech nor its associates will be held responsible for any loss or injury incurred either as a direct or indirect result of installing or using this module. Safety to all persons and animals is the responsibility of the user and care must be exercised when operating the device in the presence of people or animals. If you are not prepared to accept responsibility for your own actions or you do not agree with these conditions then you must return the module for a full refund of the purchase price. Fitting or using the module indicates that you are fully aware of all of the risks and are prepared to accept responsibility for them.

## Introduction

The Remote Control Hood (RCH) is a computer controlled module that allows you to raise and lower your Z4 hood using your existing BMW keyfob. It is also available with the One Touch Hood feature built-in, called the Remote Controlled Hood+ (RCH+).

Installation is very simple as there are only three wires to connect for the standard version and five for the RCH+ version and there's no cutting of the existing wiring loom required.

## RCH Operation

To lower the roof using the remote, press the unlock button on your remote three times waiting between 0.8 – 1.5 seconds between each press. Your hood should begin to move within about 0.5 seconds. If your Z4 was locked before any buttons were pressed then the first of these presses will also unlock your car.

To raise the hood of your Z4, the unlock button must be pressed twice followed by a single press of the lock button, again waiting 0.8 – 1.5 seconds between each click. The final single press of the lock button will also lock and arm your Z4.

Whilst the hood is moving, a single press of either the unlock or lock button will cause the hood to stop.

## RCH+ Operation

The RCH+ additionally has the following features.

The normal operation of the power hood requires you to hold the required button until the hood has completed its operation. With the RCH+ module you only need to simply press and hold the required raise or lower button for greater than 0.5 seconds and then release. The hood and windows will then continue their normal operation until fully complete.

If you need to stop the hood movement for any reason then a quick press of either button will cause the hood to immediately halt its operation.

## Installation

Installation is straightforward, there are only three wires to connect for the RCH or five for the RCH+ and there's no need to cut the existing wiring loom. The module has been designed as a micro-module to allow for very easy placement within the existing body trim.

1. Remove the ignition keys..



2. Open the ashtray and lift it out.



4. Remove the centre console by gently but firmly lifting the front and then rotating it out as shown



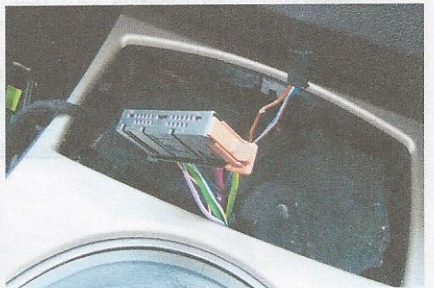
- 6.



3. Remove the screw



- 5.



7. Disconnect the two dark and one white connector from the rear of the centre console



8. Put the console out of the way somewhere safe.
9. Strip back the black cloth tape covering all of the looms to reveal about 10cm of the insulated individual wires.
10. Identify the wires from the module and the wires of the Z4 loom listed in the table below and connect together using the supplied connectors.

Connection number.	If you decide to use scotchlok connectors please use the sizing colour shown.	RCH / RCH+ Module	Z4 Loom
1	Red	Black	Brown on narrow black plug (this wire is also used on the OTH module - if fitted )
2	Red	Green, Only on RCH+	Brown/Red on wide black plug
3	Red	Yellow, Only on RCH+	Brown/Violet on wide black plug
4	Red	Blue	White/Red/Yellow on wide black plug
5	Blue	Red	Red/Black/Yellow on white plug

**Note 1:** The metal blade of the red connectors will require pushing fully home until it is completely flush, this must be done with pliers or similar to ensure a sound connection.

**Note 2:** To make refitting easier, do not bunch all the four connectors together at the same point along the loom. Instead stagger them along the loom starting at the farthest end away from the plugs and then working towards the plugs.

11. Double check all the correct wire colours have been selected and that the wires and connectors are secure.
12. Refit the three plugs into the centre console.
13. Slide the module up into the space between the black carpet and the plastic body.
14. Position the rear of the centre console into the opening whilst laying the cables so they won't get trapped or prevent the console from fitting correctly.
15. Once the rear of the console is in place then the front can also be lowered into place.
16. Refit the Philips screw and ashtray.
17. Test the module; The One Touch function will only work when the ignition is at least at the first position (radio on). The Remote function will only work when the key is out of the ignition.

Any questions please get in touch at [gaptech@live.co.uk](mailto:gaptech@live.co.uk)