

mods4cars

OPERATION AND PROGRAMMING MINI R57 MK II Convertible

smartTOP



STLFBW4

Comfort Roof Control Module for

- Mini Cooper Mk II (R57)
- BMW 1 Series Convertible (E88)

v1

Further information and manuals for all products can be found on our web site

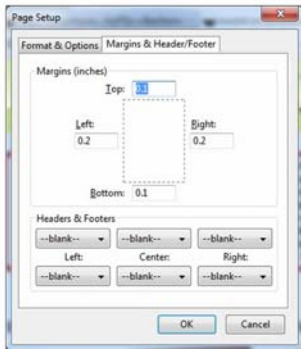
www.mods4cars.com

We explicitly point out that all functions of this control unit should be used only while exercising caution and responsibility. We can NOT be held liable for any damage or injury caused by installing or using this product.

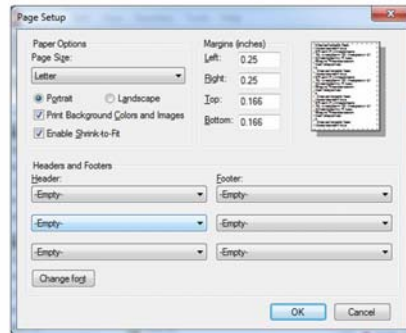
PLEASE READ THE COMPLETE MANUAL CAREFULLY BEFORE USING THIS PRODUCT.

Important Information. READ BEFORE USING!

Firefox



Internet Explorer



PRINTING THIS MANUAL

This manual is designed to produce completely filled pages. In order to get best print results, simply set the borders to minimum settings in the browser's page setup menu and disable headers and footers.

Activate the print preview and if necessary use zoom level 95% or 90% until all pages are shown correctly.

ALL IMAGES CAN BE CLICKED FOR FULL SIZE in the browser.



TROUBLE SHOOTING - NEED TO CONTACT US?
If you run into any problems after installing the module, please go over the manual again in great detail, clicking every photo for full size!
We now have a full Knowledge Base with Support Ticket system available online at www.mods4cars.com/support

If you need to contact us, the best and fastest way to do so is by [opening a support ticket there](http://www.mods4cars.com/support)

EXTREMELY IMPORTANT: In order to avoid problems with diagnostic tools and to avoid confusion or injury by unexpected features or functionality we urge you to **ALWAYS DISABLE** the module before taking the car to a shop or lending it to anyone! If problems arise while the module is installed that might be related to our product, **ALWAYS** contact Mods4cars directly first and enter a support ticket at www.mods4cars.com/support. **NEVER** take the car to a dealer without getting support first!

This module comes with our USB Field Upgrade and Configuration Port! **BEFORE YOU INSTALL**, we encourage you to connect the module using the supplied USB cable and check for firmware updates. All information and software regarding this new feature can be found at www.mods4cars.com/usb. You can even configure and activate your favorite module functions and settings on



screen before the module is installed in the car! It is also possible to permanently install the USB cable with the module in the car, leaving the computer end in an easily accessible spot for later use with a Wifi laptop.

Detailed function description (* = Factory setting)

Function 1 - Main Switch - Workshop and Diagnostics (0=OFF / *1=ON)

The module can quickly and easily be enabled and disabled using this function. It acts like a master switch. When disabled, the module becomes completely inactive and behaves as if it was not installed.

Setting 0 disables the entire module while keeping all other function settings intact. This allows turning the module off and back on without the need to reconfigure all of the other user configurable settings.

IMPORTANT: In order to avoid problems with diagnostic tools and to avoid confusion or injury by unexpected top movement, we urge you to ALWAYS DISABLE the module before taking the car to a shop or lending it to a third person! If problems with the top arise while the module is installed, ALWAYS contact Mods4Cars first at www.mods4cars.com. NEVER take the car to a dealer without getting support first!

Function 2 - One-Touch top operation (0=OFF / *1=ON WU / 2=ON WD / 3=EXT WU / 4=EXT WD)

This function enables one-touch console switch operation, for which the window position after top open as well as an optional extended convenience mode can be programmed.

Setting 1 is standard one-touch mode with windows up (WU) after top open. Setting 2 is standard one-touch mode with windows down (WD) after top open. Settings 3 and 4 (extended) are the same as 1 and 2, but additionally it is possible to turn off the ignition and pull the key while the top still continues.

Settings 3 and 4 require extra responsibility and caution to avoid injury by moving top parts to passengers not expecting the top to continue running after the engine is turned off!

Sunroof and top operation with the console switch:

- Holding down the switch (>2 sec) in either direction will operate the top in manual mode for as long as the switch is held.
- Tap OPEN 1x to open the sunroof only.
- Tap OPEN 2x to open the top and roll windows up.
- Tap OPEN 3x to open sunroof, top and windows.
- Tap CLOSE 1x to close top, windows and sunroof.
- Tap CLOSE 2x to close top and windows only.
- Tap CLOSE 3x to close the top only.
- Tap the console switch in any direction to interrupt an ongoing operation at any time - even if the top was started by remote!

Comfort close for all windows:

- Tap the top close switch when the top is already closed to roll all windows up.

Function 3 - Remote Control (0=OFF / *1=ON WU / 2=ON WD / 3=EXT WU / 4=EXT WD)

This function allows full automatic top operation with the original remote fob by pressing the lock and unlock buttons.

Also here it is possible to determine (independently from operation via the center console switch) the position of the windows after opening the top.

Setting 1 is standard remote mode with windows up (WU) after top open. Setting 2 is standard remote mode with windows down (WD) after top open. Settings 3 and 4 (extended) are the same as 1 and 2, only that it is possible to turn the ignition on and start the engine while the top still continues. Additionally getting out of the car and locking the doors by remote will not interrupt an ongoing top operation.

Settings 3 and 4 require extra responsibility and caution to avoid injury by moving top parts, as locking the (previously unlocked) doors with the remote will not stop the top!

Sunroof and top operation with the remote fob:

- Hold UNLOCK down for about 1 sec., then let go: All windows roll down.
- Hold UNLOCK down until roof starts moving, then let go: Open sunroof only.
- Hold UNLOCK down until roof starts moving, then let go and tap UNLOCK again once: Roof opens, then all windows roll up.
- Hold UNLOCK down until roof starts moving, then let go and tap UNLOCK again twice: Roof and windows open.
- Hold LOCK down for about 1 sec., then let go: All windows roll up.
- Hold LOCK down until roof starts moving, then let go: Roof, windows and sunroof close.
- Hold LOCK down until roof starts moving, then let go and tap LOCK again once: Roof and windows close, sunroof stays open.
- Hold LOCK down until roof starts moving, then let go and tap LOCK again twice: Only roof closes.
- Tap any direction to stop an ongoing operation. To stop the top in extended mode in any door lock state, tap the same direction twice!

Function 4 - Maximum allowed speed for roof operation (*0=0kmh / 1=10kmh / 2=20kmh / 3=30kmh / 4=40kmh)

Setting the max allowed speed for top operation in steps of 10km/h (~7mph). Setting 0 only allows roof operation while halted.

WARNING: Once the top is started within the programmed speed limit, it will continue running, even if the speed later exceeds the limit during the top operation!

Function 5 - All-Windows-Switch (*0=NORMAL / 1=ONE-TOUCH)

This function allows to program the "all-windows" switch to raise all windows using One-Touch. By factory this switch only does One-Touch down.

Function 6 - Folding mirrors -E88 only- (*0=OFF / 1=AUTO / 2=MANUAL / 3=AUTO2 / 4=MANUAL2)

This function allows remote control of the motorized mirrors (factory option motorized mirrors required).

Setting 1 will fold the mirrors in automatically when locking the car and unfold them when the driver's door is opened.

Setting 2 will fold the mirrors in when either the round lock button on the remote or the "lock" surface on the touch door handles is tapped twice within 5 seconds. They fold out when the driver's door is opened.

Setting 3 and 4 are the same as 1 and 2, but the mirrors fold out immediately when the car is unlocked.

IMPORTANT: For technical reasons the module can not read the current status of the mirrors and thus keeps track of the desired state internally. It can only toggle the mirror position, just like the driver's door button does. If the mirrors get out of sync (unfolding while locking or folding while unlocking), simply hit the door button once to bring them back in sync.

Function 7 - Automatic door unlocking (*0=OFF / 1=ACC / 2=IGN)

This function can be set to automatically unlock the doors when either the key is pulled from the ignition lock (setting ACC) or when the ignition is turned off (setting IGN). This removes the requirement to pull the door handles twice to get out of the car.

Function 8 - Sequential door unlock via door handle -E88 only- (*0=OFF / 1=ON)

If the car is equipped with comfort option touch handles (keyless entry) and set to only unlock the driver's door when the driver's door handle is touched, this function allows opening of all doors if desired. With this function enabled and the car locked, simply touch the lock surface first (audible click from door locks), then wait 3 sec and touch the unlock surface inside the handle to unlock all doors at once.

Function 9 - Factory remote windows blocking (*0=OFF / 1=ON)

On some cars the windows can be lowered and/or raised via the remote from the factory (by holding the button down). In cases where this interferes with smartTOP operation (windows start rolling up when trying to close the top), the factory function can be blocked and all control left to the smartTOP with this function.

This behavior has been reported for some Z4 roadster models. For maximum compatibility please do not turn this on unless necessary.

Programming

This module is equipped with our interactive setup feature to allow easy setting of the desired options or temporarily disabling the entire module.



Programming:

All programming is done by using the Convertible top switch (3) and the two green turn signal (indicator) arrows (1,2). Functions are indicated by the left arrow (1) and their settings are indicated by the right arrow (2). Navigation is done by tapping TOP CLOSE (next function) or tapping TOP OPEN (next setting). After selecting the last function or function setting, the setup automatically jumps back to the first function / lowest setting. Each time either a new function is selected or a function's setting is changed, the arrows will indicate the new status by first blinking the function (left arrow) and then the current setting (right arrow).

To enter programming mode: Turn the ignition fully ON and then completely OFF, then push and hold the TOP OPEN switch until the left arrow blinks once to indicate function 1. Now let go. From this point on you can navigate through the functions by tapping CLOSE and once the arrows are finished indicating the function and setting, change the setting by tapping OPEN. The new settings are active immediately.

To end programming mode: Either wait for 30 sec. or insert the key into the ignition lock. End of programming mode is indicated by both arrows lighting up simultaneously for 1 second.

Function/Setting Matrix (*green fields are factory defaults)

Product: STLFBW4 - SmartTOP for BMW 1 Series Conv. + MINI Conv.

Firmware: v1.00

←	SETTING 0	SETTING 1	SETTING 2	SETTING 3	SETTING 4
FUNCTION 1 Main Switch	OFF Module Disabled - Hardware bypass ON	*ON Module Enabled	-	-	-
FUNCTION 2 Conv. Top One-Touch	OFF Don't change center console switch behavior	*ON WU Enabled + windows up after top open	ON WD Same as 1 but windows down after top open	EXT WU Allow ignition off during top operation	EXT WD Same as 3 but windows down after top open
FUNCTION 3 Remote Control	OFF No remote functions	*ON WU Enabled + windows up after top open	ON WD Same as 1 but windows down after top open	EXT WU Allow ignition on during top operation	EXT WD Same as 3 but windows down after top open
FUNCTION 4 Maximum Speed	*0 km/h Only while halted	10 km/h 10 km/h (~7mph)	20 km/h 20 km/h (~13mph)	30 km/h 30 km/h (~19mph)	40 km/h 40 km/h (~25mph)
FUNCTION 5 All Windows	*OFF Factory behavior	ONETOUCH One-Touch operation to raise all windows	-	-	-
FUNCTION 6 Folding Mirrors	*OFF Disabled	AUTO Automatic with every LOCK	MANUAL Manual with quick double-tap on LOCK	AUTO2 Like AUTO but unfold on unlock	MANUAL2 Like MANUAL but unfold on unlock
FUNCTION 7 Automatic Door Unlocking	*OFF Disabled	KEY Unlock doors when key is pulled	IGN Unlock doors when ignition is turned off	-	-

FUNCTION 8 Sequential unlock (Touch door handles)	*OFF Factory behavior	ON Function enabled	-	-	-
FUNCTION 9 Factory window remote signal blocking	*OFF Factory behavior	ON Function enabled	-	-	-