MDC Cruise Control Instructions

Please read the installation manual thoroughly before performing installation of the cruise control. Do not bypass reading the manual prior to installation as you may permanently damage your cruise control unit. Though the installation process is easy, installation can take longer by troubleshooting if the necessary steps are not followed.

If there are any questions regarding the installation please contact Smart Madness at:
562-961-6800
or
email us at
smartmadness@gmail.com
Installation of the Cruise Control will need to be performed in a well lighted area as you will be working in the foot well and under the dash of your smart.

**Needed Tools**
- Small flat blade screwdriver
- 10mm and 13mm socket wrench.
- Small ¼ or 3/8” drive with a 3” to 4” extension
- T-10 and T-15 Torx bit screwdriver
- Handy flash light

**Disconnect the battery**
You must disconnect the positive lead of the battery. You will need to pull back the passenger side carpet to access the battery. Remove the Styrofoam insert and disconnect the connection from the positive terminal using a 10mm socket.

**Remove the wiper arm cover**
Pull off the speedometer housing

Pull the speedometer out of the dash (towards your chest) by giving it a firm pull. You will then see the white connector on the back of the housing.

Move this little lever of the connector and pull the connector out of the housing. Follow next instruction to adapt this connector to the cruise control connector.
Change the white connector housing from the Cruise Control with the original white connector housing from the speedometer

Remove the black inline connector from the white housing using a small flat blade screwdriver.

Put the original speedo connector from the car into this male housing of the Cruise Control. Look closely to align the pin numbers.

Put the female connector from the Cruise Control into the speedo housing and move the lever back into the locked position.

Next step note… Feed the grey cable with the red connector down to the foot well and refit the speedo/ instrument cluster.

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Removing the Accelerator Pedal

Remove these 2 nuts attaching the accelerator pedal using a 13mm socket or wrench and lift out the pedal.

Undo the cable/plug by pressing and pulling this tab. You may need to use a small flat blade screwdriver to depress the tab.
Removing the wiper arm and installing the new wiper arm style for your CC

Undo the wiper arm by pressing this tab and pulling up and out.

For decorative purposes, you may remove your stock wiper stick, end cap and snap it onto your new CC on/off switch.

Undo the cable/plug. There’s a tab you have to press and hold as you pull out the connector.

Install the grey cable with a small Black connector on one end and a small Red connector on the other. Plug the Black connector in the appropriate place on your new wiper/cruise control arm and feed the red connector down through to the driver foot well. Make sure the other end of this grey cable is marked so you can tell them apart when it comes time to making the next set of connectors.

Use a small nylon strap to secure the cable in place. Refit the cruise/wiper arm and reassemble the steering column housing.

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Fitting the black box

- Remove this screw
- Pull the carpet
- Pull out the accelerator pedal connector

The Cruise Control module will be installed in the space that exists behind the carpeting between the driver and passenger foot wells.

The Grey cables of the speedometer & wiper arm are led here behind the grey plastic cover.
Connecting the Black box:

- Wire harness for the accelerator
- From original harness
- Plug to Cruise Control and wiper arm striped or marked.
- Plug to speedometer
- Connector for a speed signal to use a navigation system
- Kill switch to disable Cruise Control. Make sure this does not get bumped to “OFF” when you put the black box lid on.
- Plug for optional illuminating external (LED) or to connect our Trip computer (then you don’t need the LED)

Attention !! Switch must be EIN (ON) Be careful not to bump the switch to “OFF” when closing the black box.
Installing the optional LED

Internal 3-color LED to see the operating status

This LED is red when ignition is on.
**Attention:**

The Cruise Control is **NOT** an autopilot.
The Cruise Control regulates only the speed.
The Cruise Control does **NOT** have a braking function.
The driver must pay close attention to traffic and the must switch the Cruise Control off if needed.

**Functions of the Cruise control:**

- Cruise control  >  Speed hold
- Speed max        >  No excess of the stored speed
- Recall           >  Return of the speed stored last
- Change the stored speed with cont + - set keys
- Indicate to the function with inserted LED optional with external LED
- Safety functions for switching cruise control off (e.g. pushing the foot brake, pushing the parking brake, open a door while driving, insert the gear selector lever into position 0-R-N, reacting of the ESP, and speed below 16 mph)
- Exit for speed control e.g. for navigation equipment
- Simple operation
- Use of an original smart wiper/ cruise control stalk
- Individually adjustable
- Adjustable accelerator pedal response. Quite faster throttle response in the low to mid rpm range.
1. To use the new wiper/ cruise control arm

**Handling:**
The handling is very easy. Push the button on the end of the wiper arm to set the CC on/off
Push **+cont** or **-set** key to change the speed if CC is set on.
Push **+cont** key while CC off to recall the last set speed.
Push **-set** button while CC off to set the speed max.
2. Settings:

The internal 3-colour LED or the optional external LED display the settings.

**Cruise Control:**
ON: Press the button  
OFF: Press the button or press the break pedal  
*Speed change:* turn the ring –Set or +Cont while CC works

With pushing the foot brake the CC switches automatically off.

You can select following main settings:

1. Disable after accelerating.  
   You have to release the accelerator pedal after 2.5s. **Red LED** is permanently illuminated during this time.
2. Or return to the last set speed after accelerating and decelerating.

The **Cruise Control** works from 16 mph till 100 mph.

**Green LED**
- LED illuminated: **CC** enabled (setting 1)
- LED flashes: **CC** enabled during accelerating (setting 2)

**Disable:** Push any key/button, brake or if chosen setting 1 push accelerator.

**Speed Max (Set):**
ON: Turn set-key down.
OFF: Push wiper arm button.
*Change speed:* Turn cont+/set-key up or down.

The SpeedMax works from 16 mph till 100 mph.

**Red LED**
- LED illuminated: **SpeedMax** on
- LED flashes: **SpeedMax enabled**, to prevent an exceeding.

**Disable:** Push any key/button or if in the Setup selected, push brake.
1. **Settings cruise control key**

Features: disable after accelerating.
Set: hold key 10s during the car stands and ignition is switched on.
Selection: Push the CC key.

**Green LED:** CC is still enabled after accelerating and returns to the last set speed again.
E. g. after overhauling
> *factory setting* <
**Red LED:** disable after accelerating.
Exit: switch off ignition.

2. **Settings key – set**

Features: disable TempoMax after braking.
Set: hold key 10s during the car stands and ignition is switched on.
Selection: Push –set key.

**Green LED:** TempoMax is still enabled during braking.
> *factory setting* <
**Red LED:** TempoMax is disabled after breaking.
Exit: switch off ignition.

3. **Settings key + cont**

Features: Set regulation characteristics
Set: hold key 10s during the car stands and ignition is switched on.
Selection: Push +cont key.

**Green LED**
1 x flashing: regulation diesel
2 x flashing: regulation unleaded
> *factory setting* <
Exit: switch off ignition.

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Sprint Booster:

Sprint Booster makes your car's throttle respond faster to your foot in the low to mid rpm range. It’s a device that improves acceleration by continuously measuring converting the digital signal provided by the electronic throttle potentiometer and providing the ECM with a new altered signal.

You can select 4 different steps or set off (factory setting).

**NOTE:** Do NOT change the levels of your cruise control with the engine on. The engine must be turned off and you will need to have visible access to your LED to determine which level of the booster is being activated.

4. Settings cruise control button

Features: Selection of the throttle response
Set: Press and hold button for 20 seconds.

PLEASE NOTE: First, the 1st menu is activated. Push the CC button until the yellow LED flashes!
Selection: Push CC button.

1. In a well ventilated area with the car stationary, start the engine, do NOT engage gear.
2. Press and hold the cruise control button for at least 20 seconds then release it.
3. Press and hold the cruise control button for 5 seconds and release to cycle 1 stage through the sprint booster feature.
4. Repeat step 2 to advance each stage.
5. Switch off engine and remove ignition key.
6. Wait 20 seconds.
7. You are now ready to go. To adjust the sprint booster again, start from step 1 again.

<table>
<thead>
<tr>
<th>Yellow LED</th>
<th>Throttle response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashes Once</td>
<td>Off &gt; factory setting &lt;</td>
</tr>
<tr>
<td>Flashes Twice</td>
<td>Light throttle response</td>
</tr>
<tr>
<td>Flashes Three Times</td>
<td>Middle throttle response</td>
</tr>
<tr>
<td>Flashes Four Times</td>
<td>Strong throttle response</td>
</tr>
<tr>
<td>Flashes Five Times</td>
<td>Very strong throttle response</td>
</tr>
</tbody>
</table>

To Exit: switch off ignition.
**DISCRIPTION OF THE LED INDICATION**

LED indication

- OFF
- ☼ flashes normal
- ☼☼ flashes fast

<table>
<thead>
<tr>
<th>Function</th>
<th>LED green</th>
<th>LED red</th>
<th>LED yellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immobilizer on</td>
<td></td>
<td>☼ only by standing</td>
<td></td>
</tr>
<tr>
<td>( only on special wish )</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cruise Control on</td>
<td>☼ only by driving</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SpeedMax on</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time up to hold the speed after CC on</td>
<td></td>
<td></td>
<td>☼ only by driving</td>
</tr>
<tr>
<td>Brake still not pushed</td>
<td></td>
<td></td>
<td>☼</td>
</tr>
<tr>
<td>no CAN- BUS signal</td>
<td></td>
<td>☼☼</td>
<td></td>
</tr>
<tr>
<td>Accelerating by CC on</td>
<td>☼ only by driving</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SpeedMax on preventing an exceeding</td>
<td>☼ only by driving</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Settings (look descriptions)</td>
<td>☼</td>
<td>☼</td>
<td>☼</td>
</tr>
<tr>
<td>Open door/ rear flap or pull emergency brake</td>
<td>☼</td>
<td>☼</td>
<td>☼</td>
</tr>
</tbody>
</table>

!! Please Note !!

After starting the engine the LED is flashing until first push of the foot pedal.
The stop light switch is scanned for function.
If the stop light switch has an error, the LED flashes continuously.
The cruise control is disabled!

If the LED flashes continuously green > red > yellow
There is a door/ rear flap not correctly closed or the emergency brake pulled
In this case the cruise control cannot switch on.