

Installation Guide

Parts Included:

-MMV2 Device
-OBDII Power Adapter Cable
-Windshield Mount
-HDMI Cable
-USB-MicroSD Card Reader
-MicroSD Card
-MiniUSB Cable
-Fuse Tap Aux Wire
-Fuse Spade

Tools Needed:

-Fuse Puller
-Voltage Tester
-10amp Manual Battery Charger
-Pliers
-(optional) Zipties
-2018+ Cummins require a bypass cable. Ensure you have one before proceeding with the install.

WARNING: Altering the OEM configuration of your vehicle may be illegal in your area. Before installing any tuner or performance modification, we strongly advise you to check your local rules and regulations. Our products are intended for off-road purposes only and are not designed for use on pollution-controlled vehicles. Compliance with local laws is the sole responsibility of the customer. Stay informed and responsible, and always prioritize the environment and the safety of your vehicle.

A manual 10amp battery charger must be used whenever the ECM is flashed. DO NOT proceed if you don't have a manual battery charger available. Smart chargers and jumper cables are not suitable substitutes for a 10amp manual charger. The vehicle must be tuned without codes prior to any emissions system removal or modifications. Failure to follow instructions may cause damage to the ECM or void warranty coverage.

Pre-instalation:

1. Connect the 10amp manual battery charger to your truck.
2. Turn off all accessory powered electronics. This includes closing the cab doors, turning off lights, Radio and entertainment screen, and disconnecting any aftermarket electronics.
3. Connect the Mini Maxx to the truck via the OBDII cable and HDMI- make sure the switch is set to BATT, not KEY. Do not install the key-on accessory wire until installation is complete.
4. We recommend to ziptie or otherwise secure the OBDII end of the cable under the dash. This prevents the device from disconnecting during the flash due to vibrations in the cab.

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For 2018+ Ram: ensure you are using the bypass cable adapter instead of the power adapter cable that comes in the MMV2 box. This will be packaged separately and marked with a red strip on the OBDII cable.

Tune Flash Process:

1. Turn the key to the ON position. DO NOT start the engine.
2. Access the Main Menu (top left button). Now select “Change Vehicle” and select your Year vehicle’s year range and Make. The device will now restart.
3. Access the Main Menu, then select “Install Download”
4. Follow the on-screen prompts. You will be prompted to turn the Key to ON/OFF then press continue. Do not start the engine for this.

NOTE: If at any point the device freezes during the download: DO NOT unplug the Mini Maxx- this can cause harm to the ECM. Instead, use the switch on the OBDII power adapter box to safely reset the device. Freezing during the download is usually due to a voltage drop- if this happens go over the Pre-Installation steps again.

Hard Parts:

The Mini Maxx V2 automatically applies emissions delete tuning when flashed. After flashing the tune, you must unplug the following factory components and sensors.

1. EGR
2. DPF
3. DEF, NOX and ammonia
4. All EGT probes (pre-turbo EGT is in the engine bay, if you have an EGR delete kit, do not reinstall this probe with the block-off plate)
5. Throttle Valve (ensure the inner flap remains open)

NOTE: The Mini Maxx V2 does not support custom tuning. If the Grid heater or CCV are deleted/rerouted, you may get error codes. Non-VGT and other aftermarket non-stock replacement turbos and exhaust brakes may not work with this tuner.

Mounting the Device:

1. Clean and dry your inner windshield, select a safe place to mount the Mini Maxx without obstructing the driver's view.
2. Stretch out the HDMI cable to ensure minimal slack, tuck this along dash seams.
3. Use the T-Slot on the back of the device to attach the Mini Maxx to the Universal windshield mount.
4. Position the suction cup on the selected windshield placement, then press the level on the base of the mount to secure it in place.

Finalizing Installation:

Steps below will enable the vehicle key position to control the power state (on/off) of the Mini Maxx; if you do not want the Mini Maxx to automatically power on and off according to the key position, skip these steps.

1. Use a 12 Volt test light or check your owners manual to locate the fuse. The fuse should only have power when the key is in the “on” or “run” position.
2. Remove the Fuse and locate the unpowered (accessory) side of the socket.
3. With the Key on the “run” or “on” position, insert the probe of a 12 Volt test light into each side of the fuse socket. Mark the side that does not light up. (The selected fuse should be either a 10 or 15 amp fuse)
4. Connect the included auxiliary wire to the fuse box. Crimp the spade over the fuse tap, then put the tapped fuse back in the fuse box (make sure the tapped side is placed in the unpowered side of the socket.
5. Connect the Aux end of the wire to the Adapter box, then slide the switch from BATT to KEY.
6. For safety, run this wire under the dash or weather stripping.

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Menu Options:

Main Menu (top left button)

Change Vehicle
- If the Mini Maxx is showing the wrong vehicle type during install, use this Menu option.

Install Download
- This Menu option is used to install the performance and delete programming onto your truck. Do not proceed without a 10amp battery charger. See pages 1-2 for details on this process.

Gauge Setup
- Used to select which gauges you want displayed on the Main Screen. 4 gauges available at one time.
- On LML Duramax's, there is a bug that causes the Boost Gauge to not calculate. Actual Boost is normal, but the Gauge will not be accurate.

Diagnostics
- Used to Scan and Clear diagnostic trouble codes stored in the ECM.

Performance Testing
- Built-in acceleration timer for real-world performance testing. NOT TO BE USED ON PUBLIC ROADWAYS.

Driving Coach Setup
- Set Economy Goal, Reset Average Economy, Adjust Acceleration Sensitivity, and adjust Coach Sound.

Special Functions (varies based on vehicle type)
- Idle Up, PTO, TPMS Base, Headlamp Delay, Horn Chirp, Optical Chirp, Seatbelt Minder, Accessory Delay, Fog light settings, DRL's, Tire Size for Speedometer and more.

Vehicle Setup
- Pyro Source: factory EGT's are not compatible. If you install a pyro docking station, use this setting to select source
- Defuel Levels: sets Defueling levels. This Menu will also affect Engine Warmup Mode time.
- Economy Display %
- Speed display %

User options
- Set Theme: adjusts colour scheme for DAY/NIGHT modes.
- Adjust Backlight: adjust screen brightness for DAY/NIGHT Modes.
- Set SENSOR Settings: set's analog input and frequency.
- Set Animation Pref's: turns on/off Wave animation effect.
- Language settings and Measurement settings.

Show Settings (4 Pages)
- If you have any tune related issues, please take pictures of the first two pages in the show settings menu and send it to help@minimaxx.ca for technical support.
- This Menu shows all of the important stored information on the SD card, such as your VIN, ECM calibration numbers, current defuel settings, fuel economy and more.
- Currently there is a software bug that does not allow the device to show the accurate software version. After you update the SD card, it will continue to show an old software version (such as 2.0.0.1 or 2.0.0.3)
- Registration: This setting will always show as incomplete. We do not keep customer information on file, so your device warranty will be handled by your retailer.

Uninstall Download
- This setting will uninstall the tune and flash the OEM ecm settings back onto the truck. Ensure a 10amp manual battery charger is used when flashing the ECM.

Update Firmware
- This Menu option can be used when reflashing the tune without uninstalling the delete programming. It should also be used after any changes are made to the SD card files, such as updates.

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Power Levels and Compatibility

NOTE: The Power Level ratings listed may not be exact for your particular vehicle. Modifications done to the vehicle and adjusted MMV2 settings may affect these ratings.

If you encounter any tuning related issues such as codes or lack of power, please visit our known errors page and reach out to our technical support team: KNOWN ERRORS

GMC

No Power +0HP, Tow +30HP, Street +65HP, Performance +100HP

YEAR	MODEL	ENGINE	C&C SUPPORT	SOFT	TRANS. SUPPORT	TRANS. TUNNING
2007.5 - 2010	Sierra & Silverado HD (2500 - 5500)	6.6 Duramax	Y	Y	A & M	N
2011 - 2016	Sierra & Silverado HD (2500 - 5500)	6.6 Duramax	Y	N	ALL	N

FORD

No Power +0HP, Tow +40HP, Street +80HP, Performance +120HP.

YEAR	MODEL	ENGINE	C&C SUPPORT	SOFT	TRANS. SUPPORT	TRANS. TUNNING
2008 - 2010	F 250 - 550	6.4 Power Stroke	Y	Y	A & M	N
2011 - 2016	F 250 - 350	6.7 Power Stroke	N	Y	ALL	Y
2017 - 2019	F 250 - 350	6.7 Power Stroke	N	N	ALL	Y

RAM

2007-2018: No Power +0hp, Tow +40Hp, Street +80HP, Performance +120HP

Certain ECM calibrations in 2013+ Ram are limited to 50HP, this includes 2019-2021 models.

Stock Power +0HP, Tow +15Hp, Street +30HP, Performance +50HP

YEAR	MODEL	ENGINE	C&C SUPPORT	SOFT	TRANS. SUPPORT	TRANS. TUNNING
2007.5 - 2009	RAM 2500 - 5500	6.7 Cummins	Y	Y	ALL	N
2010 - 2012	RAM 2500 - 3500	6.7 Cummins	N	Y	ALL	N
2013 - 2017	RAM 2500 - 5500	6.7 Cummins	Y	Y	ALL	68RFE ONLY
2018 - 2021	RAM 2500 - 5500	6.7 Cummins	Y	Y	ALL	Y

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SOFT and Single Tune Use:

Switch on the Fly Tuning:

Allows the user to switch power levels at the ease of a button. On the Mini Maxx V2, simply use the right-hand buttons on the device while on the Main Screen. Your current power level will be displayed in the lower left corner.

Single Power Levels:

Vehicles include 2011-2016 (LML) GMC's and 2017-2019 Ford's. To switch the power level on these vehicle types, you must reflash the tune.

Ensure that a battery charger of at least 10A is connected to the vehicle, do not unplug or disconnect the MMV2 during the flash - failing to follow these instructions may result in a bricked ECM.

1. Power on the MMV2 via USB to a computer or a wall outlet- Do not connect the device to the vehicle yet. Enter the menu and scroll down to select "Update Firmware". The screen will darken while it's updating, once complete it will reboot. After the Device reboots, you may now connect the MMV2 to your vehicle using the HDMI cable and OBDII adapter block.
2. Connect a battery charger capable of supplying at least 10A at all times. Do not use a smart charger, jumper cables or a booster pack that will adjust the amperage it delivers and/or timeout after a few minutes. It is mandatory to use a proper charger, not doing so can result in a bricked ECM and we will not offer any support for negligence.
3. With a capable battery charger connected, turn your ignition to the "ON" position (engine off), go into the MMV2 menu, and select "install download". Follow the on-screen prompts until it's been reinstalled. This is where you will select your power level.
4. Once complete, turn the ignition off and disconnect your battery charger.
5. The reflash process is complete, take your truck for a test drive.

Available Updates:



The Mini Maxx V2 comes pre-installed with the latest stable version of the software, this update is also available on our website. If you are using a laptop, please use the "Manual Update Fix", as the updater application may not work for you.

For the latest Beta release, patch files, or older versions of the software, please contact our technical support team help@minimaxx.ca