



AEM CD-5/7 QUICK START GUIDE



READ ENTIRE DOCUMENT BEFORE BEGINNING. Follow the link below to download DashDesign software.
<https://www.aemelectronics.com/?q=products/instructions/software-downloads>

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DIGITAL DASH DISPLAYS

CD Dash Line, lets you see everything

Daylight readability, ease of use and limitless customization all at a competitive price. Consider the bar raised.

[View All Dash Displays](#)

AEM Performance Electronics Support - Software Downloads

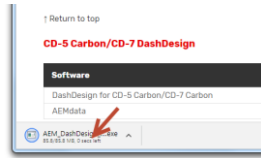
Click on table to jump to a specific software section

Infinity EMS	Series 2 EMS	EMS-4	Series 1 EMS
Fuel/Ignition Controllers	AQ-1 Data Logger	AEMData Logging and Analysis	Wideband Failsafe
Water/Methanol Failsafe	Serial Gauge	X-WiFi	CD-5/CD-7 Carbon Dash Design

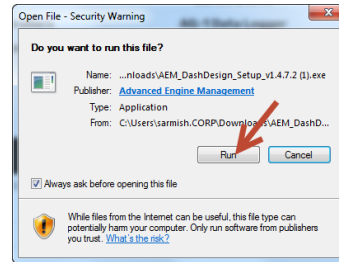
Click **DOWNLOAD** – Your software Version may not match the example below.

CD-5 Carbon/CD-7 DashDesign

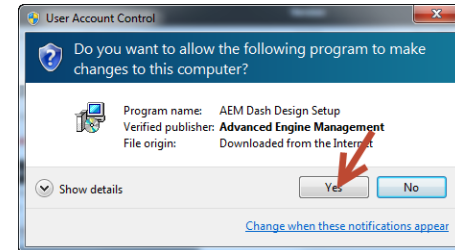
Software	Version	Update Date	File Size	Download
DashDesign for CD-5 Carbon/CD-7 Carbon	1.4.7.2	June 19th, 2018	86MB	DOWNLOAD
AEMdata	4.01.40	April 2nd, 2018	103MB	DOWNLOAD



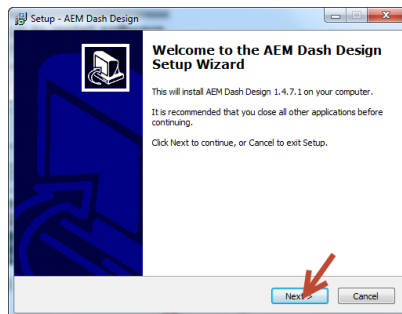
1. Wait till the download completes then click to launch installer



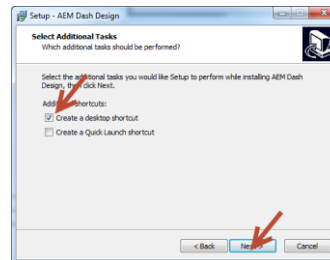
2. Click Run to confirm



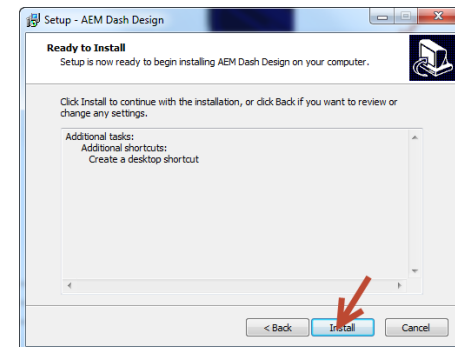
3. Click Yes to allow changes



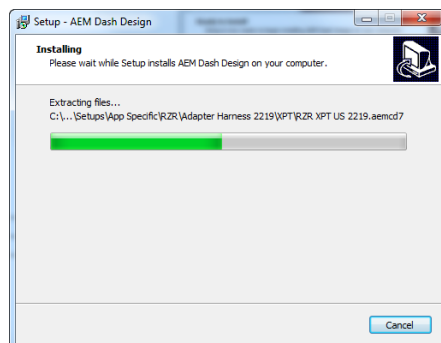
4. Click Next to continue



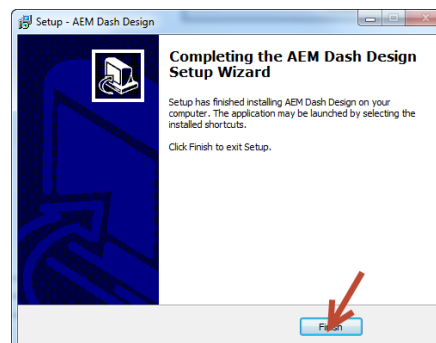
5. Click to create a desktop icon then Next to continue



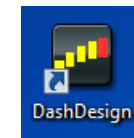
6. Click to install



7. Wait for the installation to complete



8. Click Finish to complete



9. Launch the software by double clicking the desktop icon

Connecting - Infinity, 30-71XX

If using an AEM supplied Infinity harness, simply plug the 4 pin Deutsch DTM connector from the dash harness into the corresponding connector on the Infinity harness labeled AEMNet. If using a custom designed harness, see full manual for details. The full manual can be found here after software install. \\Documents\AEM\DashDesign\Instructions. Note that a switched, 12V power source at the AEMNet connector is required for proper function of the Dash.

Be sure you have the latest software installed. In the DashDesign software, go to Tools | Upload Firmware. The firmware files are located at \\Documents\AEM\DashDesign\Firmware with the format *CD-14x23.bin* where x23 is an example version. In the DashDesign software, go to File | Open... and navigate to the library of pre-configured setup files for the Infinity. They are installed at the following location. \\Documents\AEM\DashDesign\Setups\App Specific\AEM Infinity. Choose your file and click Open.

Connect the Dash to your PC using the supplied USB connector. Turn the key on. Ensure the dash is powered up. A status message will be displayed as shown below.



In the DashDesign software, go to File | Upload to display... A status message will notify you when it is safe to disconnect the USB cable. Once the USB cable is disconnected, the Dash will reboot and will be ready for use.

Connecting - Series II EMS

See Series II user documentation for location of the CAN1L and CAN1H circuits. Following is a pinout of the 4 pin Deutsch DTM connector on the Dash harness.

Pin	Function
1	AEMNet CAN+
2	AEMNet CAN-
3	+12V Power
4	Ground

Connect the CAN1H circuit from your Series II ECU to Pin 1 AEMNet CAN+. Connect the CAN1L circuit from your Series II ECU to Pin 2 AEMNet CAN-. Use optional AEM PN 35-2626 as mating connector.

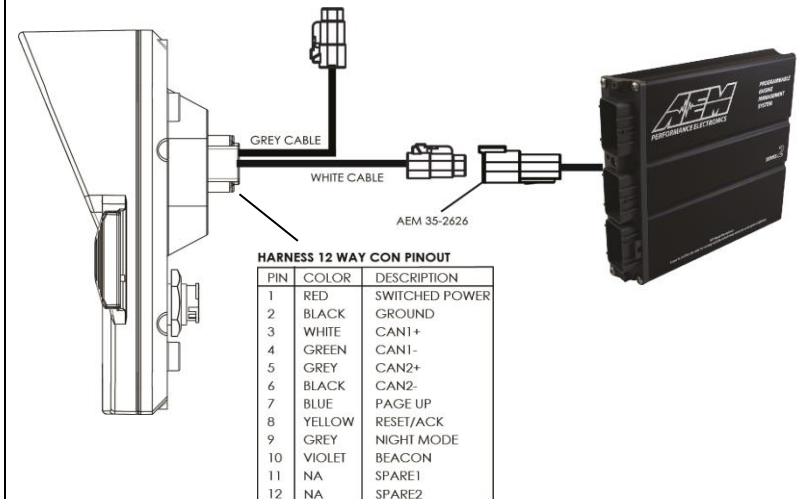
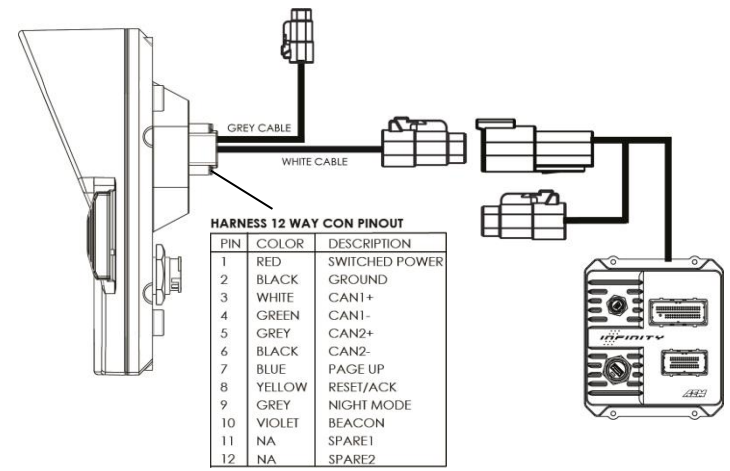
Be sure you have the latest software installed. In the DashDesign software, go to Tools | Upload Firmware. The firmware files are located at \\Documents\AEM\DashDesign\Firmware with the format *CD-14x23.bin* where x23 is an example version. In the DashDesign software, go to File | Open... and navigate to the library of pre-configured setup files for the Series II. They are installed at the following location. \\Documents\AEM\DashDesign\Setups\App Specific\AEM Series2 & EMS-4. Choose your file and click Open.

Connect the Dash to your PC using the supplied USB connector. Turn the key on. Ensure the dash is powered up. A status message will be displayed as shown below.



In the DashDesign software, go to File | Upload to display... A status message will notify you when it is safe to disconnect the USB cable. Once the USB cable is disconnected, the Dash will reboot and will be ready for use.

The AEMNet CAN output must be enabled in your Series II ECU before the dash can receive messages. In AEMTuner, select **Wizards | Setup Wizard** and choose Telemetry: AEMNet from the Wizard Types column. Left click on the Configuration Name AEMNet Datastream and click the Apply button to enable.



Typical OBDII Connection

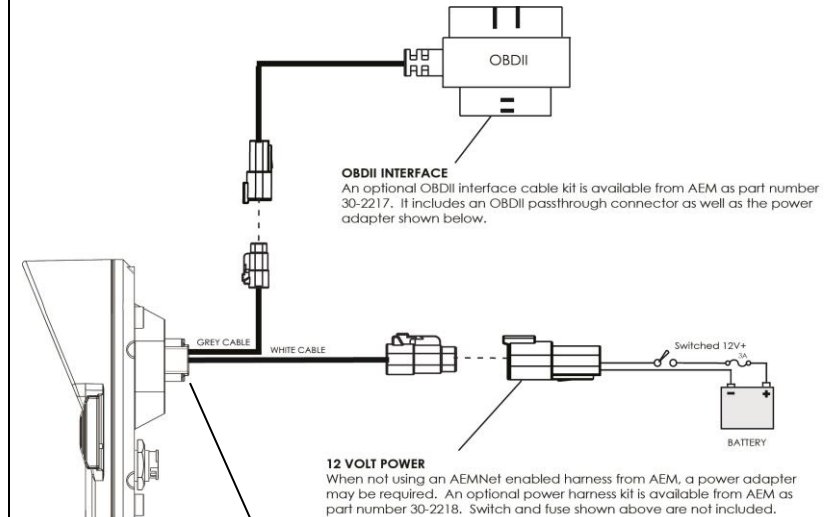
Be sure you have the latest software installed. In the DashDesign software, go to Tools | Upload Firmware. The firmware files are located at \Documents\AEM\DashDesign\Firmware with the format *CD-14x23.bin* where x23 is an example version. In the DashDesign software, go to File | Open... and navigate to the library of pre-configured setup files for OBDII. They are installed at the following location. \Documents\AEM\DashDesign\Setups\App Specific\OBDII
Choose your file and click Open.

Connect the Dash to your PC using the supplied USB connector. Turn the key on. Ensure the dash is powered up. A status message will be displayed as shown below.



In the DashDesign software, go to File | Upload to display... A status message will notify you when it is safe to disconnect the USB cable. Once the USB cable is disconnected, the Dash will reboot and will be ready for use. To configure your dash for OBDII data display, the dash must scan your vehicle's OBDII port to identify all ECUs and available PIDs. PID stands for Parameter ID. These are codes used to request specific data from a vehicle. To begin the scan process, launch AEM DashDesign and go to Tools | Scan Vehicle OBDII...

<p>1. Set Time and Date in Display Upload Firmware Scan Vehicle OBDII...</p>	<p>The OBDII Scan Wizard will guide you through the process.</p>
<p>2. OBDII Scan Wizard This wizard will guide you through scanning the vehicle for OBDII PIDs Please connect USB between PC and dash. Applet: CD7-OBDDI_Applet01D04.bin Firmware: CD7-14x04.bin</p>	<p>3. OBDII Scan Wizard This wizard will guide you through scanning the vehicle for OBDII PIDs Please ensure dash is connected to the vehicle's OBDII port, key is in the Run position, then unplug USB to start scan Applet: CD7-OBDDI_Applet01D04.bin Firmware: CD7-14x04.bin</p>
<p>4. OBDII Scan Wizard This wizard will guide you through scanning the vehicle for OBDII PIDs Wait for dash scan to complete before reconnecting USB Applet: CD7-OBDDI_Applet01D04.bin Firmware: CD7-14x04.bin</p>	<p>5. The dash will scan your vehicle and identify all available PIDs. When the scan is complete the message <i>Reconnect USB cable to complete process</i> will be displayed on the dash. Plug in the USB cable.</p>
<p>6. OBDII Scan Wizard This wizard will guide you through scanning the vehicle for OBDII PIDs Complete Information OBDII Scan complete. 27 PIDs found on 3 ECUs on Port 2 Applet: CD7-OBDDI_Applet01D04.bin Firmware: CD7-14x04.bin</p>	<p>7. The scan is complete. Click OK to proceed. 8. Save your setup file then upload again before proceeding. You can also use the hotkey combination <i>Ctrl+U</i>. If the setup file is not loaded into dash after completing OBDII Scan Wizard there can be errors or missing data.</p>



HARNESS 12 WAY CON PINOUT



PIN	COLOR	DESCRIPTION
1	RED	SWITCHED POWER
2	BLACK	GROUND
3	WHITE	CAN1+
4	GREEN	CAN1-
5	GREY	CAN2+
6	BLACK	CAN2-
7	BLUE	PAGE UP
8	YELLOW	RESET/ACK
9	GREY	NIGHT MODE
10	VIOLET	BEACON
11	NA	SPARE1
12	NA	SPARE2


3rd Party Hardware

AEM has validated CAN setups for many 3rd party hardware platforms. For a continuously updated list of validated setups, please visit our forum at <https://www.aemelectronics.com/?q=forum/can-configurations-3rd-party-hardware>

Be sure to create an account!

The screenshot shows the AEM Electronics website. At the top, there is a navigation bar with the AEM logo and the tagline "Engineered to Outperform". The main navigation menu includes: PRODUCTS, MEDIA, DEALERS, SEMINARS, FORUM, INSTRUCTIONS, SOFTWARE DOWNLOADS, ABOUT US, CONTACT US, and PRODUCT LEGAL RESTRICTIONS. The "FORUM" link is circled in red. Below the navigation bar is a large advertisement for "DIGITAL DASH DISPLAYS" featuring a "CD Dash Line". The ad text reads: "CD Dash Line, lets you see everything. Daylight readability, ease of use and limitless customization, all at a competitive price. Consider the bar raised." A red button labeled "View All Dash Displays" is visible. In the top right corner, there are links for "Login" and "Create Account", both of which are circled in red. A search bar and a "BUY NOW! Find an authorized dealer" button are also present.

AEM ELECTRONICS			
FORUM	TOPICS	POSTS	LAST POST
 CD-7 Digital Racing Dash Display Post comments/questions regarding the CD-7, CD-7L and Dash Design software	114	533	Can Bus data not showing available after scan by Mkeisling 1 hour 57 min ago
 AEM Fuel Delivery Post comments/questions regarding AEM Fuel Delivery	15	59	AEM 50-1000 compatible with PWM control? by ChesLans 06/19/2018 - 14:59

TOPIC / TOPIC STARTER	REPLIES	LAST POST
 Sticky: CAN Configurations for 3rd Party Hardware by AEM_JR » Fri, 01/06/2017 - 15:33	29	by AEM_JR Fri, 08/03/2018 - 08:47

3rd Party Supported Hardware Examples – See forum thread for latest info!

- Adaptronic M1200, M2000, M6000 ECUs
- Adaptronic Modular series Plug-in ECUs
- Autosport Labs, AnalogX 4 Channel Analog to CAN Module
- BigStuff GEN4 Pro Xtreme ECUs
- Bosch IMU 2-Axis Accel & Yaw Sensor
- EFI Technology S.r.l. Euro-4 ECU
- EMS EM-Tech EM70, EM80, EM140, EM160 & EM180 ECUs
- FAST XFI 2.0 ECU
- gaugeART 31-001, 8 Ch Analog Expansion Module
- GM/Delphi MEFI-4b ECUs
- Haltech Elite 550, 750, 950, 1000, 1500, 2000, 2500, 2500T ECUs
- Haltech Elite VMS, VMS-T
- Haltech Platinum Pro, Platinum Sport and Platinum Sprint ECUs
- Haltech WBC1 & WBC2, 1 & 2 Ch CAN widebands
- Holley HP EFI, Dominator EFI ECUs
- Hondata KPro4 and S300 V3 ECUs
- KMS MD35 ECU
- KMS Single Ch CAN wideband
- KMS 4 Ch EGT Module
- KMS 4 Ch Wheelspeed Module
- KMS 2 Ch DBW Module
- KMS Flex Fuel CAN Module
- Life Racing F42, F88, F90 & GDI Series ECUs
- Link G4+ based ECUs
- Link CAN-Lambda Module
- Megasquirt, MS3, MS2, Microsquirt, DIYPNP & MSPNP Gen2 ECUs
- MicroTech LT-9C, LT-10C, LT-15C & LT-16C ECUs
- Motec M1, M84, M400, M600, M800, & M880 ECUs
- Motec PDM15, PDM16, PDM30 & PDM32 Power Distribution Modules
- Motec PLM Lambda Module
- Motec LTC, LTCD Lambda to CAN Modules
- Motec E888, E816, CAN Expansion Modules
- MSD AtomicEFI Throttle Body ECUs
- MSD GRID Programmable Ignition
- PCS EGT-2000, 8 Ch EGT Module
- Performance Electronics PE3 Series ECUs
- Polaris RZR XP-900, RZR XP-1000, & RZR XP-Turbo ECUs
- ProEFI Pro128, Pro112, and Pro48 ECUs
- RaceGrade TC8, 8 Ch EGT Module
- RaceGrade 8 Ch and 15 Ch Keypads
- Racepak V300SD, V500SD, Sportsman, G2X, & G2XPro Loggers
- Racepak 220-VM-USM, Universal 4 Sensor Analog Modules
- Racepak 220-VP-IRXXXX, IR Tire & Brake Temp Modules
- Racepak 220-VP-JBXXXX, Exhaust Temp Modules
- Racepak 220-VP-PTXXXX, Pressure Sensor Modules
- Racepak 220-VP-PTXXXX, Wheelie Bar Force Modules
- Racepak 220-VP-RIDEHTXX, Laser Ride Height Modules
- Racepak 220-VP-TCXXXX, Thermocouple Modules
- Racepak 220-VP-TRXXXX, Coolant/Air/Oil/Trans/Diff Temp Modules
- Syvecs S6, S6+, S6I, S8, SDI & S12 ECU's
- Techmor AC-1-4, 4 Ch Analog Expansion Module
- Techmor IR-1 Non-Contact IR Tire Temperature Module
- Techmor AP-1, 16 Ch Aero Pressure Sensor Module
- Techmor SG-1-C, Strain Gauge Amplifier Module
- Vi-PEC i44-i88 ECUs
- Zeitronics Zi-3 CAN AFR Meter and Datalogging System

