



DD-EFI Digital Pro Dash User Guide

[Home](#) » [DD-EFI](#) » DD-EFI Digital Pro Dash User Guide 

Contents

- 1 DD-EFI Digital Pro Dash
- 2 Product Usage Instructions
- 3 Main Connector
- 4 Troubleshooting Dash Not Turning ON:
- 5 Dash Setup & Configuration
- 6 I/O Connectors
- 7 Sensor Connector
- 8 Digital Connector
- 9 Disclaimer
- 10 Warranty
- 11 Documents / Resources



DD-EFI Digital Pro Dash



Product Information:

The DD-EFI Pro Dash is a digital dashboard designed for use with vehicles. It features main connectors V1 and V2 for connecting to the vehicle's ECU. The dash has two I/O connectors for sensors and digital inputs.

The product comes with sensor and digital wiring harnesses, T-Tap connectors, and a breakout board for connecting sensors directly from DD-EFI.

Please note that Digital Dash EFI LLC has no affiliations, representations, endorsements, sponsorships, or associations with the Raspberry Pi Foundation or EFI Analytics. The company reserves the right to revise the installation and user manual without prior notification.

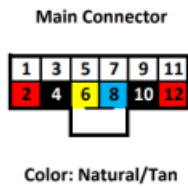
For warranty-related inquiries, please contact support at Digital Dash EFI LLC via email at support@dd-efi.com.

Product Usage Instructions

- 1. Connection from Dash to ECU:** Wire the Can H/L Wires (Red/Black Twisted Pair) to the ECU Can H/L Wires. Use a volt meter to verify that there is 12V on the Yellow Wire (12V Switched). The screen will only turn on when 12V is applied.
- 2. Dash Setup & Configuration:** If you have already completed the assembly process of your dash and provided your TunerStudio Registration and Current Project, your setup and configuration are complete. Proceed to wiring the I/O connectors for your digital and analog inputs.
- 3. I/O Connectors:** The Pro Dash has two I/O connectors for sensors and digital inputs. Refer to the provided diagrams for each pin's location, function, and wire color in the 12-pin and 10-pin black connectors. Use the provided sensor and digital wiring harnesses, T-Tap connectors, and breakout board for easy connections.
- 4. Sensor Connector:** Make a single wire connection by attaching the Yellow Wire (Pin 12) to your vehicle's fuel sending unit signal wire. Use the provided T-Tap Wire Connector for easy connection to your factory wiring.

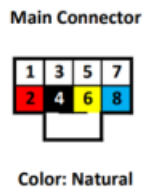
Main Connector

V1

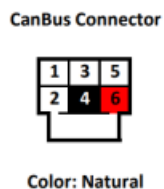


Pin	Wire	Description
1	N/A	
2	Red	12V Power - Connect to a "Clean" 12V+ Battery Power Source
3	N/A	
4	Black	Ground - Connect to a "Clean" Ground Source
5	N/A	
6	Yellow	12V Ignition - Connect to a "Clean" switched battery source
7	N/A	
8	Blue	Optional 12V Switched - another trigger to Turn ON the dash ie: Dome light, Door Switch, etc.
9	N/A	
10	Black	Can L - Connect this wire to the CAN L on your Megasquirt ECU (Red/Black Twisted Pair)
11	N/A	
12	Red	Can H - Connect this wire to the CAN H on your Megasquirt ECU (Red/Black Twisted Pair)

V2



Pin	Wire	Description
1	N/A	
2	Red	12V Power - Connect to a "Clean" 12V+ Battery Power Source
3	N/A	
4	Black	Ground - Connect to a "Clean" Ground Source
5	N/A	
6	Yellow	12V Ignition - Connect to a "Clean" switched battery source
7	N/A	
8	Blue	Optional 12V Switched - another trigger to Turn ON the dash ie: Dome light, Door Switch, etc.



Pin	Wire	Description
1	N/A	
2	N/A	
3	N/A	
4	Black	Can L - Connect this wire to the CAN L of your Megasquirt ECU (Red/Black Twisted Pair)
5	N/A	
6	Red	Can H - Connect this wire to the CAN H of your Megasquirt ECU (Red/Black Twisted Pair)

CAUTION: Make sure to install a Jumper Wire (With Factory Resistor or Fuse) between the vehicle's alternator excite/sensing wire to the vehicles ignition wire when removing the instrument cluster or your alternator may not charge. To verify that your alternator is charging start the vehicle and use a Volt Meter on the Battery terminals. You should have a reading of 13V+ when connected to the Battery.

Connection from ECU to Dash: Install your USB Tuning Cable into one of the open USB Ports on the Pro Dash
Connection from Dash to ECU: Wire the Can H/L Wires (Red/Black Twisted Pair) to the ECU Can H/L Wires

Troubleshooting Dash Not Turning ON:

- Fan on back of Dash Running – NO
 - Verify Wiring – Make sure the Red (12V Battery) and Black (Ground) are NOT hooked up to the CAN H/L wires. This is the 6ft long twisted wire pair that goes to your Megasquirt ECU.
 - Verify 12V – Use a Volt Meter to verify there is 12V to both the Red Wire (12V Battery) and the Yellow Wire (12V Switched).
- Fan on back of Dash Running – YES
- Use a Volt Meter to verify there is 12V on the Yellow Wire (12V Switched). The screen will only Turn ON when 12V is applied.

Dash Setup & Configuration

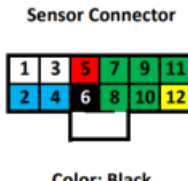
After the assembly process of your dash, you were requested to provide your TunerStudio Registration and Current Project.

If you did this, your setup and configuration has been completed and you can move on wiring to the I/O Connectors for your Digital and Analog Inputs

If you did NOT, please contact support@dd-efi.com to complete this step of the setup and configuration process.

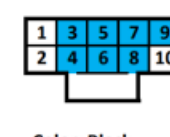
I/O Connectors

The DD-EFI Pro Dash has (2) I/O Connectors for Sensors and Digital Inputs. Below are diagrams outlining what each Pins location, function, and wire color in the 12 Pin and 10 Pin black connectors. Provided: Sensor and Digital Wiring Harnesses, (4) T-Tap Connectors (Used for: Fuel Level, L/R Turn Signals, High Beam), Breakout Board (If you purchased sensors directly from DD-EFI)

Sensor Connector		Pin	Wire	Description
		1	White	VR2+ ***
		2	Blue	VR2- ***
		3	White	VR1+ ***
		4	Blue	VR1- ***
		5	Red	5V VREF Power - this is used to supply 5V Power for Sensors 1-5
		6	Black	Sensor Ground - this is used to supply Ground for Sensors 1-5
		7	Green	Sensor 1
		8	Green	Sensor 2
		9	Green	Sensor 3
		10	Green	Sensor 4
		11	Green	Sensor 5 (Oil Pressure) this is already pre-setup for a DD-EFI 0-100PSI Pressure Sensor
		12	Yellow	Fuel Level - this is already pre-setup by connecting to the factory fuel sending units signal wire

Sensor Connector

- (5) ADC (Sensor) Inputs:
 - o Sensor 5, this is pre-configured in default DD-EFI Dashboards for Oil Pressure
 - o This requires a Digital Pressure Sensor, so if you need one, we offer one at <https://dd-efi.com/collections/accessories>
- Breakout Board – this is included with any order that purchases sensors directly from us to simplify the wiring process
- Sensor Wiring:
 - o All wiring diagrams are on our website (<https://dd-efi.com/pages/technical-resources>)
- Fuel Level (Yellow Wire) – this is a pre-configured internal circuit to make the wiring of your factory vehicle fuel sending unit a single wire connection. Attach the Yellow Wire (Pin 12) to your vehicles fuel sending unit signal wire. There is a provided T- Tap Wire Connector for easy connection to your factory wiring.

Digital Connector		Pin	Wire	Description
		1	White	PWM Output 1
		2	White	PWM Output 2
		3	Blue	Digital Input 1 (Left Turn Signal) this is already pre-setup by connecting to the factory Left Turn wire
		4	Blue	Digital Input 2 (Right Turn Signal) this is already pre-setup by connecting to the factory Right Turn wire
		5	Blue	Digital Input 3 (High Beam) this is already pre-setup by connecting to the factory High Beam wire
		6	Blue	Digital Input 4
		7	Blue	Digital Input 5
		8	Blue	Digital Input 6
		9	Blue	Digital Input 7
		10	N/A	

Digital Connector

- (2) PWM Outputs:

- Configurable for either ON/OFF
- PWM Setup: Extended Control -> PWM Output 1 or 2
- Outputs are low side (Pull to Ground)
- Each capable of up to 6A
- **(7) Digital Inputs:**
 - Configurable for 12V trigger inputs
- **Digital Inputs 1, 2 & 3 – pre-configured in DD-EFI Dashboards for**
 - Provided T-Tap Wire Connector(s) for easy connection
 - Left Turn Signal – Digital Input 1
 - Right Turn Signal – Digital Input 2
 - High Beam – Digital Input 3
- **Push Button Start**
 - Setup: Extended Control -> Push Button Start
 - Input Port
 - Select one of the available Digital Inputs
 - This typically comes from the output of the push start button; the inputs are preconfigured for 12v input.
 - Output Port
 - Select one of the available PWM Outputs
 - These outputs provide a ground signal and are typically wired to a relay that will provide the 12v to the starter solenoid.
- **Examples of other Digital Inputs uses:**
 - Factory Indicators – Seat Belts, Low Level Indicators, etc.
 - AC Idle Up
 - Launch Control

Disclaimer

Digital Dash EFI LLC makes no affiliations, representations, endorsements, sponsorships, or associations with the Raspberry Pi Foundation or EFI Analytics.

You, the “User”, hereby warrant that the User has and will continue to comply with any and all laws, rules, statutes, and regulations related to the use of Digital EFI LLCs products and services, that may include but are not limited to, any and all local, state, and federal requirements. As required under the Magnuson-Moss warranty Act, 15 U.S.C. ch. 50 § 2301 et seq., User must not install any products or services unless the User has the technical ability to properly set-up the entire vehicle to compensate for the installation of the products. The necessary work and expertise needed to install different products vary. Instructions, where provided, are given to assist in the installation only; they are not a substitute for mechanical experience in setting up vehicles. User agrees to defend, indemnify, and hold Digital Dash EFI, LLC, its officers, directors, employees, and agents, harmless from and against any claims, liabilities, damages, losses, and expenses, including without limitation, reasonable legal and accounting fees, arising out of or in any way connected to User’s access, use, or misuse of the services or the products. DIGITAL DASH EFI DISCLAIMS AND TAKES NO RESPONSIBILITIES FOR ANY CONDUCT OF USER IN CONNECTION WITH USER’S USE OF THIS MANUAL OR THE PRODUCTS AND SERVICES, AT ANY TIME.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL DIGITAL DASH EFI LLC , ITS AFFILIATES, EMPLOYEES, LICENSORS OR DIGITAL DASH EFI LLC S BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL, EXEMPLARY, INCIDENTAL, SPECIAL, PUNITIVE, OR ENHANCED DAMAGES, INCLUDING, WITHOUT LIMITATION, PERSONAL OR PROPERTY DAMAGE, WHETHER INCURRED DIRECTLY OR INDIRECTLY, OR ANY LOSS OF USE OR OTHER INTANGIBLE LOSSES, RESULTING FROM USE OF THIS

PRODUCT OR THE SERVICES OR ANY ERRORS CONTAINED WITHIN THIS MANUAL OR THE SUPPLY, PERFORMANCE OR USE OF THE HARDWARE AND SOFTWARE EVEN IF DIGITAL DASH EFI LLC HAS BEEN ADVISED AT ANY TIME OF THE POSSIBILITY OF SUCH DAMAGES. NOTWITHSTANDING THE FOREGOING, IN NO EVENT SHALL DIGITAL DASH EFI LLC 'S AGGREGATE LIABILITY TO USER FOR ANY AND ALL CLAIMS ARISING OUT OF OR RELATING TO THE SERVICE OR THIS AGREEMENT EXCEED THE AMOUNT PAID, IF ANY, BY USER TO DIGITAL DASH EFI LLC. THE DAMAGES LIMITATION SET FORTH IN THE IMMEDIATELY PRECEDING SENTENCE APPLIES (i) REGARDLESS OF THE GROUND UPON WHICH LIABILITY IS BASED (WHETHER DEFAULT, CONTRACT, TORT, STATUTE, OR OTHERWISE), (ii) IRRESPECTIVE OF THE TYPE OF BREACH OF OBLIGATIONS, AND (iii) WITH RESPECT TO ALL EVENTS RELATED TO THE PRODUCT AND SERVICES.

Digital Dash EFI LLC reserves the right to revise this installation and user manual at any time, without obligation to notify any person of revisions.

WARNING: California's Proposition 65 requires that a clear and visible warning be provided to consumers in California that have the potential to expose them to various substances which may cause cancer, birth defects or other reproductive harm. Many of the products of Digital Dash EFI LLC utilize manufactured products from Aluminum, Plastics, and other standard materials. These products can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov


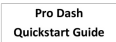
Warranty

Digital Dash EFI LLC makes every effort to ensure our products and services are of the highest quality and standards. This warranty applies to the ORIGINAL PURCHASER of this product and covers only those products exposed to normal use or service. Digital Dash EFI LLC warrants all merchandise manufactured by Digital Dash EFI LLC against defects in workmanship or material for a period of six (6) months after the date of purchase. This warranty does not apply to any product that has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident. Any part or product found to be defective after examination by Digital Dash EFI LLC will be repaired or replaced. Digital Dash EFI LLC assumes no responsibility for loss of time, diagnosis, removal and/or installation labor, loss of vehicle use, inconvenience or any other consequential expenses. This Warranty is in lieu of all other expressed warranties or liabilities. Any implied warranties, including any implied warranty of merchantability, shall be limited to the duration of this written warranty.

OTHER THAN AS EXPRESSLY PROVIDED HEREIN, DIGITAL DASH EFI LLC PROVIDES THE INFORMATION IN THIS MANUAL AND PRODUCT ON AN "AS IS" AND "AS AVAILABLE" BASIS AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, GRANTS NO OTHER WARRANTIES OF ANY KIND, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE PRODUCT AND THIS MANUAL (INCLUDING ALL CONTENT CONTAINED THEREIN), INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF SATISFACTORY QUALITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.

If you have any questions regarding warranty, please contact support at Digital Dash EFI LLC at support@dd-efi.com.

Documents / Resources

 	DD-EFI Digital Pro Dash [pdf] User Guide Digital Pro Dash, Dash
--	--

