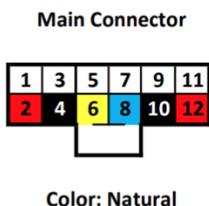




**Pro Dash
Quickstart Guide**

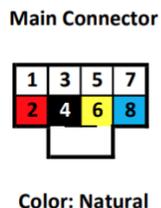
Main Connector

V1 Main Connector Pinout

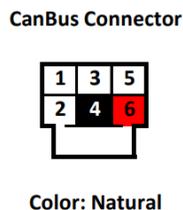


Pin	Wire	Description
1	White	Dimming - 12V+ source to trigger dimming feature
2	Red	12V+ Power - Connect to a "Clean" 12V+ Battery Power Source
3	N/A	
4	Black	Ground - Connect to a "Clean" Ground Source
5	N/A	
6	Yellow	12V+ Ignition - Connect to a "Clean" switched battery source
7	N/A	
8	Blue	Optional 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 Main Connector Pinout



Pin	Wire	Description
1	White	Dimming - 12V+ source to trigger dimming feature
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)

V3 Main Connector Pinout

Main Connector



Color: Natural

Pin	Wire	Description
1	Pink	Dimming - 12V+ source to trigger dimming feature
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	Lt. Blue	Optional 12V+ Switched - another trigger to Turn ON the dash ie: Dome light, Door Switch, etc.

*****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).

V1 Sensor Connector Pinout

Sensor Connector



Color: Black

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

V2 Sensor Connector Pinout

Sensor Connector



Color: Black

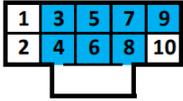
Pin	Wire	Stripe	Description
1	Purple		VR1 +
2	Tan		VR1 -
3	Purple	Black	VR2 +
4	Tan	Black	VR2 -
5	Red		5V VREF Power - this is used to supply 5V Power for Sensors 1-5
6	Black		Sensor Ground - this is used to supply Ground for Sensors 1-5
7	Green		Sensor 1
8	Green	White	Sensor 2
9	Green	Yellow	Sensor 3
10	Green	Orange	Sensor 4
11	Green	Pink	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:**
 - Sensor 5, this is pre-configured in default DD-EFI Dashboards for Oil Pressure
 - This requires a Digital Pressure Sensor, so if you need one, we offer one at <https://dd-efi.com/collections/accessories>
- **Sensor Wiring:**
 - **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.

V1 Digital Connector Pinout

Digital Connector

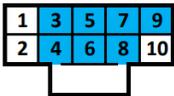


Color: Black

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	

V2 Digital Connector Pinout

Digital Connector



Color: Black

Pin	Wire	Stripe	Description
1	Grey		PWM Output 1
2	Grey	Black	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	White	Digital Input 2 (Right Turn Signal) this is already pre-setup by connecting to the factory Right Turn wire
5	Blue	Yellow	Digital Input 3 (High Beam) this is already pre-setup by connecting to the factory High Beam wire
6	Blue	Orange	Digital Input 4
7	Blue	Pink	Digital Input 5
8	Blue	Lt. Green	Digital Input 6
9	Blue	Tan	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
 - The output of the push start button; the inputs are preconfigured for 12v input.
 - Output Port
 - Select one of the available PWM Outputs
 - Output provides a ground signal wired to a relay that provides 12v to the starter solenoid.

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