

Digital Dash v4.0 Build 25 release notes

Installation Instructions:

Extract the files from techlibrary_4.0.25.zip onto the root folder of a USB memory stick. Once the update process starts, it is important to not remove power until after the update process is complete.

1. Turn off power to the dash.
2. With the dash powered off, insert the USB memory stick into one of the USB ports.
3. Power on the dash. It will display a message that it is updating software. Wait until you see the gauge screen appear before continuing.
4. Turn off the dash and remove the USB stick.

NOTE: It is recommended to delete the update files from the USB memory stick after this procedure is complete.

Bug Fixes:

- EFI version checks implemented (i.e., a message will be displayed if the EFI was not updated to V4)
- EFI log file download speed improvements
- Fixed gauge defaults when adding digital input
- Duplicate symbols removed from keyboard panel
- Touchscreen recalibration has been made more user friendly

Improvements:

- Automatic update of existing screens to V4 format
- Configuration menu
 - Real-time clock now supports Time Zones
 - New Dash Configuration Tab – for optional I/O adapter
 - Local I/O config screen
 - CAN Devices screen – for future product
 - Vehicle tab added
 - Re-calibrate touchscreen moved to new 'Misc' tab
 - New 'Standalone Mode (no EFI)' checkbox – for future product
 - Now prompts to save or discard changes when switching to another screen
- Status LED – new size; Large
- Gauges can now be set to flash on warning.
- Customize mode changes
 - New gauge type: Graph
 - New gauge type: G Meter (for use with accelerometer channels)
 - New gauge type: Symbol – text or symbols that change color with alarms
 - New Switch type: Rocker 2
 - New Internal Parameters – can be displayed as a gauge.
 - AccX
 - AccY
 - AccZ
 - Updated channel selection screen. Channels are only shown if ICF is present in EFI global file. New 'Show all channels' checkbox can be toggled to view all channels regardless of ICF configuration.
 - Analog gauge sweep limits are now -360 to 360
 - Note: Gauge values are no longer updated while in customize mode.
- Local logging (record button)
 - Local channels are recorded in unused input channels of a V4 formatted log file.
- EFI Data Log control
 - Additional V4 trigger channels are available
- User interface improvements

Channel List (below):

199R10965

Revision Date: 2-25-16

RTC	Injector #5 PPH	Boost Vent Sol DC	Line Temp	AccX
RPM	Injector #6 PPH	W/M Injection	Torque Time	AccY
Inj PW	Injector #7 PPH	W/M Manual Enable	Trans Man US Input	AccZ
Duty Cycle	Injector #8 PPH	W/M Low Fluid	Trans Man DS Input	GPSQual
CL Comp	Injector #9 PPH	W/M Pump	Trans Auto/Man In	GPSspeed
Target AFR	Injector #10 PPH	W/M Sol 1 Flow	TB TPS #1,	GPSLat
AFR Left	Injector #11 PPH	W/M Sol 2 Flow	TB TPS #2	GPSLong
AFR Right	Injector #12 PPH	W/M Flow Total	Pedal TPS #1	GPSElev
AFR Average	Injector #1 PW	W/M Sol 1 DC	Pedal TPS #2	GPSDir
Air Temp Enr	Injector #2 PW	W/M Sol 2 DC	TB2 TPS #1	IO1
Coolant Enr	Injector #3 PW	N2O Stage 1,	TB2 TPS #2	IO2
Coolant AFR Offset	Injector #4 PW	N2O Stage 2	TB Position	IO3
Afterstart Enr	Injector #5 PW	N2O Stage 3	TB2 Position	IO4
Current Learn	Injector #6 PW	N2O Stage 4	Brake Pedal	IO5
CL Status	Injector #7 PW	N2O Stage 5	Diag #1,	IO6
Learn Status	Injector #8 PW	N2O Stage 6	Diag #2	IO7
Fuel Economy	Injector #9 PW	N2O Stage 7	Diag #3	IO8
Fuel Flow	Injector #10 PW	N2O Stage 8	Diag #4	IO9
MAP RoC	Injector #11 PW	GPO 1	Diag #5	IO10
TPS RoC	Injector #12 PW	GPO 2	Diag #6	
Tuning Change	Cyl #1 Fuel Cor	GPO 3	Diag #7	
Estimated VE	Cyl #2 Fuel Cor	GPO 4	Diag #8	
Ignition Timing	Cyl #3 Fuel Cor	GPO 5	Diag #9	
Knock Retard	Cyl #4 Fuel Cor	GPO 6	Diag #10	
Knock Level	Cyl #5 Fuel Cor	GPO 7	Diag #11	
IAC Position	Cyl #6 Fuel Cor	GPO 8	Diag #12	
MAP	Cyl #7 Fuel Cor	N2O Enabled	Diag #13	
TPS	Cyl #8 Fuel Cor	N2O Input #1	Diag #14	
MAT	Cyl #9 Fuel Cor	N2O Input #2	Diag #15	
CTS	Cyl #10 Fuel Cor	N2O Input #3	Diag #16	
Baro	Cyl #11 Fuel Cor	N2O Input #4	Diag #17	
Battery	Cyl #12 Fuel Cor	N2O Input #5	Diag #18	
Oil Pressure	Cyl #13 Fuel Cor	N2O Input #6	Diag #19	
Fuel Pressure	Cyl #14 Fuel Cor	N2O Input #7	Diag #20	
Pedal Position	Cyl #15 Fuel Cor	N2O Input #8	AT Launch Input,	
Main Rev Limit	Cyl #16 Fuel Cor	N2O Purge	AT Shift Input	
Rev Limit #1	Cyl #1 Timing Cor	N2O Lean Cutoff	AT Manual Reset	
Rev Limit #2	Cyl #2 Timing Cor	N2O Rich Cutoff	AT Gear	
AC Kick	Cyl #3 Timing Cor	N2O RPM Cutoff	AT 1D #1	
Timing Retard #1	Cyl #4 Timing Cor	N2O MAP Cutoff	AT 1D #2	
Timing Retard #2	Cyl #5 Timing Cor	N2O Purge Output	AT 1D #3	
Timing Retard #3	Cyl #6 Timing Cor	N2O Dry Fuel #1	AT 1D #4	
Fan #1	Cyl #7 Timing Cor	N2O Dry Fuel #2	AT 1D #5	
Fan #2	Cyl #8 Timing Cor	N2O Dry Fuel #3	AT 1D #6	
#2 Fuel Pump	Cyl #9 Timing Cor	N2O Dry Fuel #4	AT 1D #7	
AC Shutdown	Cyl #10 Timing Cor	N2O Dry Fuel #5	AT 1D #8	
TCC Lockup	Cyl #11 Timing Cor	N2O Dry Fuel #6	AT 2D #1	
Sensor Warning	Cyl #12 Timing Cor	N2O Dry Fuel #7	AT 2D #2	
Sensor Caution	Cyl #13 Timing Cor	N2O Dry Fuel #8	AT 2D #3	
Base Fuel lb/hr	Cyl #14 Timing Cor	N2O Tmg Mod #1	AT 2D #4	
Base Fuel VE	Cyl #15 Timing Cor	N2O Tmg Mod #2	AT 2D #5	
Base Timing	Cyl #16 Timing Cor	N2O Tmg Mod #3	AT 2D #6	
Base Target AFR	DI Target FP	N2O Tmg Mod #4	AT 2D #7	
Base Ign Dwell	Boost Gear	N2O Tmg Mod #5	AT 2D #8	
Vol Comp Ign Dwell	Boost Stage	N2O Tmg Mod #6	AT 1D Gear #1	
Inj End Angle	Boost	N2O Tmg Mod #7	AT 1D Gear #2	
ECU Log Trigger	Boost Speed	N2O Tmg Mod #8	AT 1D Gear #3	
Timing vs Air	Boost Time	N2O Timer #1	AT 1D Gear #4	
Timing vs Cool	Target Boost	N2O Timer #2	AT 1D Gear #5	
Status 1	Trans Brake	N2O Timer #3	AT 1D Gear #6	
Status 2	Boost Scramble +	N2O Timer #4	AT 1D Gear #7	
Status 3	Boost Scramble -	N2O Timer #5	AT 1D Gear #8	
Status 4	Manual Boost Build	N2O Timer #6	AT 2D Gear #1	
Status 5	Manual Boost Reset	N2O Timer #7	AT 2D Gear #2	
Status 6	Boost Build	N2O Timer #8	AT 2D Gear #3	
Status 7	Boost Solenoid Duty	Gear,	AT 2D Gear #4	
Status 8	Boost Safety	Speed	AT 2D Gear #5	
Injector #1 PPH	Boost Master Enbl	Line Pressure	AT 2D Gear #6	
Injector #2 PPH	Boost Man Shift Inp	Input Shaft Speed	AT 2D Gear #7	
Injector #3 PPH	Boost Man Stage Inp	Accum Pressure	AT 2D Gear #8	
Injector #4 PPH	Boost Fill Sol DC	TCC Duty Cycle		