



ED KEYPAD

FUNCTIONS & CONTROLS MANUAL

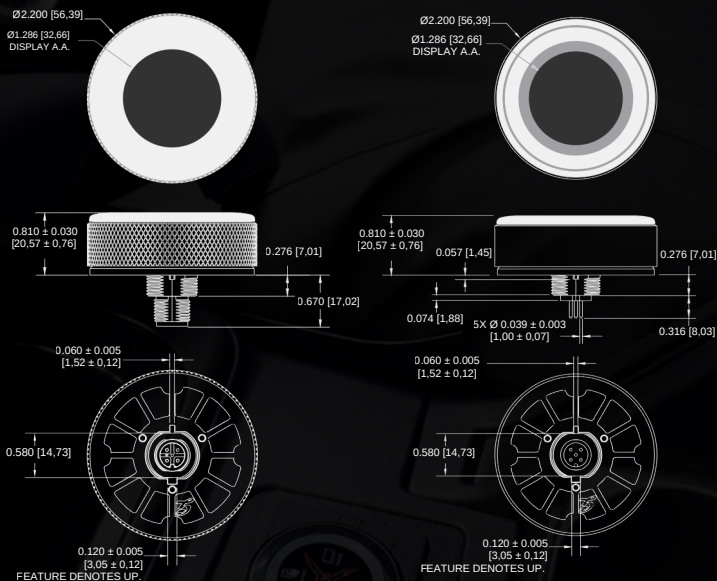


EXPERIENCE A NEW LEVEL OF CONTROL WITH THE ED KEYPAD

The ED Keypad combines a responsive touchscreen with a precision rotary control, giving drivers fast and intuitive access to key vehicle functions. Users can rotate, press, tap, and swipe to navigate menus, adjust settings, and control compatible features without relying on multiple switches or buttons.

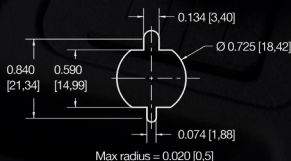
Designed exclusively for the Elite Dash E-10 and E-12.

DIMENSIONS in inches (and millimeters)



Mounting Information

Suggested mounting pattern IN [MM]



Standard plastic mounting nut IN [MM]



Pin Numbering



Connector Output

Pin #	USB	CAN
1	Mode	Mode
2	Vin	Vin
3	GND	GND
4	USB_D+	CAN_H
5	USB_D-	CAN_L

Note: that 120ohm resistor must be added to CAN_H and CAN_L

Utility Mode

CAN: Utility mode runs on the Backup OS, and can be used to troubleshoot and check version number.

Mode Pin Truth at Power Up

Utility Mode	GND
Run Mode	Open

GENERAL SPECS

- Device Diameter (O.D.) 2.200 in (55.88 mm)
- Display Diameter (V.A.) 1.286 in (32.66 mm)
- Touchscreen Projected capacitive
- Display: Type Round color TFT LCD, 320x320
- Display: Brightness 200 Cd/m²

MECHANICAL SPECS

- Pushout Force (Max) 45 lbs (200 N)
- Pullout Force (Max) 45 lbs (200 N)
- Side Load Force 45 lbs (200 N)
- Lens Hardness 2H (4H hardcoat)
- Lens Impact: IK5
- Mounting Torque (Nominal) 4-10 in-lbs
- Mounting Torque (Max) 14 in-lbs
- M12 Connector Torque (Max) 14 in-lbs
- M12 Connector Pullout 15 lbs (66.7 N)
- Mounting Alignment
- (Maximum) < 1 Deg
- Weight (Production Unit) 4.25 oz (120.6 g)

ENVIRONMENTAL SPECS

- Operating Temp. Range -20 to 65 °C
- Storage Temperature -30 to 70 °C
- Humidity 95% @ 65 °C
- Mechanical Shock ANSI EP455 5.14.1
- Seal (Electronics) IP67

ELECTRICAL SPECS

- Radiated Immunity IEC 61000-4-3 80-2700 MHz 10 V/m
- Conducted Immunity IEC 61000-4-6 Level 2 130 dBμV/, 150 KHz to 80 MHz
- ESD IEC 61000-4-2 8 KV Contact 15 KV Air
- Power Frequency Magnetic Field Meets IEC 61000-4-8 100 A/m
- Electrical Fast Transient/Burst: IEC 61000-4-4±1 IEC 61000-4-4 ± 1 KV Coupling Clam
- Conducted Emissions EN EN 55011, EN 55032 Class B
- Radiated Emissions EN 55011, EN55032 FCC Part 15 Class B

FUNCTIONS AND CONTROLS

- Switch between dashboard screen pages
- Access dashboard recent packages
- Control keypad button switches
- Adjust RPM and boost levels using the rotary knob
- Reset Trip A, Trip B, and Current Trip
- Reset service notifications
- Clear diagnostic trouble codes
- Access the debug data view
- Start and Stop Datalogging
- Adjust screen brightness for day and night modes
- Reverse-camera settings
- Front-camera settings
- Turn-signal camera settings
- RPM or launch-control blinker settings
- Intro logo setting
- Color buttons settings
- Work as a touchpad for navigation and control



WELCOME
SCREEN

1 Welcome Screen

Tap the Welcome Screen to access the Main Menu.



MAIN MENU

2 Navigating the Main Menu

The Main Menu displays 5 icons. Tap any icon to open its corresponding screen:

- **Keypad:** Opens the keypad sub-menus interface.
- **Pages:** Opens the dashboard pages interface.
- **Packages:** Opens the theme packages interface.
- **Setting:** Opens the system settings interface.
- **Touch Pad:** Opens the dashboard touchpad interface.
Tap the Center Logo to begin.



TOUCH PAD

3 Using the Touch Pad Interface

Selecting this option turns your ED Keypad into a functional touch pad for your main display.

- **Move Cursor:** Drag your finger across the touch encoder screen to move the mouse cursor on your Dashboard Screen.
- **Click Buttons:** Double-tap the touch encoder screen to click or select buttons on the Dashboard Screen.
- **Exit Interface:** Tap the Bottom Arrow to exit the touch pad and return to the Main Menu.



DASHBOARD
PAGES

4 Navigating Dashboard Pages

Open the Pages Screen from the Main Menu to control your dashboard views using the physical encoder dial.

- **Next Page:** Rotate the ED Keypad clockwise to view the next dashboard page.
- **Previous Page:** Rotate the ED Keypad counterclockwise to view the previous dashboard page.
- **Exit Interface:** Tap the Bottom Arrow to return to the Main Menu



DASHBOARD
RECENT PACKAGES



KEYPAD
SETTINGS



RPM LEVEL
CAN SWITCH KEYPAD



RPM LEVEL
BT SWITCH KEYPAD

5 Navigating Theme Packages

Open the Packages Screen from the Main Menu to cycle through your recently used themes using the physical encoder dial.

- **Next Theme:** Rotate the ED Keypad clockwise to activate the next recent theme package.
- **Previous Theme:** Rotate the ED Keypad counterclockwise to activate the previous recent theme package.
- **Exit Interface:** Tap the Bottom Arrow to return to the Main Menu.

6 Navigating Keypad Menus

Open the Keypad Screen from the Main Menu. The interface displays 5 icons. Tap any icon to open its corresponding menu:

- **Boost Level:** Opens the Boost Level interface.
- **RPM Level:** Opens the RPM Level interface.
- **Switches:** Opens the Keypad Buttons interface.
- **Go Back:** Exits the keypad menu and returns to the Main Menu.
- **Touch Pad:** Opens the dashboard touchpad interface. Tap the Center Logo to begin.

7 Adjusting RPM Level (CAN SWITCH)

Open the RPM Level interface from the Keypad Menu.

- **Change RPM Level (CAN SWITCH):** Rotate the ED Keypad dial to adjust the RPM level from 0 to 3.
- **Switch to (BT SWITCH):** Tap the Arrow Right icon or Swipe Right on the screen to switch.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Keypad Menu.

8 Adjusting RPM Level (BT SWITCH)

Open the RPM Level interface from the Keypad Menu.

- **Change RPM Level (BT SWITCH):** Rotate the ED Keypad dial to adjust the RPM level from 0 to 10.
- **Switch to (CAN SWITCH):** Tap the Arrow Left icon or Swipe Left on the screen to switch.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Keypad Menu.



BOOST
LEVEL

9 Adjusting the Boost Level

Open the Boost Level interface from the Keypad Menu.

- **Change Boost Level:** Rotate the ED Keypad dial to adjust the boost level from 0 to 3.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Keypad Menu.



KEYPAD
BUTTONS

10 Adjusting Keypad Switch Buttons

Open the Switches interface from the Keypad Menu.

- **Select Buttons:** Rotate the ED Keypad dial to navigate and select Keypad Buttons 1–8 and Options 1–2.
- **Activate Button Switch:** Tap ON or OFF on the screen to change the status of the selected button or option.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Keypad Menu.



SETTING
MENU

11 Navigating the Setting Menu

Open the Setting interface from the Main Menu.

- **Select Setting:** Rotate the ED Keypad dial to cycle through the menu icons. The icon moved to the center position is the currently selected menu. Tap the screen to enter your selection and choose from the following options:

1. Blinker Setting	5. Brightness Setting
2. Camera Setting	6. Debug Data View
3. Intro Logo Setting	7. Datalogging
4. Reset Trip & Reset Service Notification	8. Clear Error Codes
- **Change to Next Setting:** Swipe Left or Right across the screen to quickly jump to the next setting.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Keypad Menu.



PAGES SETTING MENU

12 Navigating the Pages Setting Menu

Swipe the screen while in the setting menu to access the Pages Setting interface.

- **Select & Activate Shortcuts:** Rotate the ED Keypad dial to cycle through the menu icons. Moving an icon to the center position instantly activates that specific Dashboard Pages shortcut.

1. Color Setting	4. Keypad Page shortcut
2. Camera Page shortcut	5. System Page shortcut
3. Map Page shortcut	6. TPMS Page shortcut
- **Color Setting Exception:** Unlike the other shortcuts, you must tap the screen to open and access the Color Setting.
- **Change to Previous Setting:** Swipe Left or Right across the screen to quickly jump to the previous setting.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Keypad Menu.



BLINKER SETTING MENU

13 Blinker Setting Menu

Open the Blinker Setting interface from the Setting Menu.

- **Select Setting:** Rotate the ED Keypad dial to cycle through the menu icons. The icon moved to the center position is the currently selected menu. Tap the screen to enter your selection and choose from the following options: RPM or Launch Control blinker.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Setting Menu.



RPM BLINKER

14 RPM Blinker Max Rev Setting

Open the RPM Blinker Setting interface from the Blinker Setting.

- **Select Blinker Mode:** Rotate the ED Keypad dial to cycle through and select your preferred setting: **OFF**, **NEW**, or **OLD** RPM Blinker.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Blinker Setting Menu.



LAUNCH CONTROL BLINKER

15 Launch Control Blinker Setting

Open the Launch Blinker Setting interface from the Blinker Setting.

- **Select Blinker Mode:** Rotate the ED Keypad dial to cycle through and select your preferred setting: **OFF** or **ON** Launch Control Blinker.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Blinker Setting Menu.



CAMERA SETTING MENU

16 Camera Setting Menu

Open the Camera Setting interface from the Setting Menu.

- **Select Setting:** Rotate the ED Keypad dial to cycle through the menu icons. The icon moved to the center position is the currently selected menu. Tap the screen to enter your selection and choose from the following options:
 1. Reverse Camera
 2. Reverse Camera Flip
 3. Front Camera Flip
 4. Signal Lights Camera
- **Select Mode:** Rotate the ED Keypad dial to cycle through and select your preferred setting: **OFF** or **ON**, and **UNFLIP** or **FLIP**.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Setting Menu.



REVERSE CAMERA



REVERSE CAMERA FLIP



FRONT CAMERA FLIP



SIGNAL LIGHTS CAMERA

17 Intro Logo Setting

Open the Intro Logo Setting interface from the Setting Menu.

- **Select Intro Logo Mode:** Rotate the ED Keypad dial to cycle through and select your preferred setting: **ON** or **OFF**.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Setting Menu.



INTRO LOGO
SETTING

18 Reset Trip & Service Notification Setting Menu

Open the Reset Setting interface from the Setting Menu.

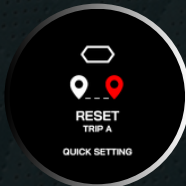
- **Select Setting:** Rotate the ED Keypad dial to cycle through the menu icons. The icon moved to the center position is the currently selected menu. Tap the screen to enter your selection and choose from the following options:
 1. Reset Current Trip
 2. Reset Trip A
 3. Reset Trip B
 4. Reset Service Notification
- **Select Mode:** Rotate the ED Keypad dial to cycle to reset the Trips or Service notification in your Dashboard.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Setting Menu.



RESET TRIPS &
SERVICE NOTIFICATION
SETTING



RESET CURRENT
TRIP



RESET TRIP A



RESET TRIP B



RESET SERVICES
NOTIFICATION

19 Debug Data View

Open the Debug Data View interface from the Setting Menu.

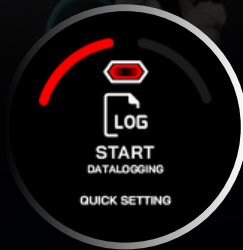
- **Activate Mode:** Rotate the ED Keypad dial to cycle through and view the live diagnostic data logs on your dashboard.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Setting Menu.



DEBUG DATA
VIEW



DATALOGGING
QUICK SETTING



DATALOGGING
STARTED



DATALOGGING
STOPPED

20 Activate Datalogging Quick Setting

Open the Datalogging interface from the Setting Menu.

- **Start Datalogging:** Rotate the ED Keypad dial clockwise to begin recording data logs.
- **Stop Datalogging:** Rotate the ED Keypad dial counterclockwise to stop the active data recording.
- **Exit Interface:** Tap the Bottom Center of the screen to save your log file and return to the Setting Menu.



DAY BRIGHTNESS
SETTING



NIGHT BRIGHTNESS
SETTING

21 Navigating Brightness Settings

Open the Brightness Setting interface from the Setting Menu.

- **Toggle Day/Night Modes:** Tap the center of the screen to switch back and forth between the Daytime and Nighttime brightness configuration pages.
- **Adjust Daytime Brightness:** With the daytime page active, rotate the ED Keypad dial from 0 to 100 to set screen visibility for when the vehicle's **Low Beam** is **OFF**.
- **Adjust Nighttime Brightness:** With the nighttime page active, rotate the ED Keypad dial from 0 to 100 to set screen visibility for when the vehicle's **Low Beam** is **ON**.
- **Exit Interface:** Tap the Bottom Center of the screen to save your changes and return to the Setting Menu.



CLEAR ERROR CODES

22 Clear Error Codes

Open the Clear Error Codes interface from the Setting Menu.

- **Clear Car Errors:** Rotate the ED Keypad dial to initiate the diagnostic clearing process. Once the vehicle's fault codes are wiped, a confirmation notification will appear on your main dashboard screen.
- **Exit Interface:** Tap the Bottom Center of the screen to return to the Setting Menu.



COLOR BUTTONS SETTING

23 Dashboard Color Buttons Setting

Open the Color Setting interface from the Pages Setting Menu.

- **Select Button Color:** Tap your preferred color directly on the screen. A confirmation notification will appear on your main dashboard screen once the color updates.
- **Style Compatibility:** *Note: Color customization is style-dependent. Not all dashboard layouts utilize these theme colors. Switch to other dashboard pages or styles to see the changes.*
- **Exit Interface:** Tap the Center back arrow of the return to the Pages Setting Menu.



ED KEYPAD

FUNCTIONS & CONTROLS MANUAL

**WE ARE HERE TO HELP!
CONTACT US NOW**

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