DRIVE

User Manual

Version 1.1

DRIVE

Transmission Temperature Gauge

An Android Smart Phone Application

By

Richard Strickland

DRIVE

Transmission Temperature Gauge

For

Android Smart Phones

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USER MANUAL
Version 1.1

www.drive02.com

For use with 1996 to Current Year Vehicles

Ford/LincoIn/Mercury
GM/Chevrolet
Chrysler/Dodge/Jeep (*2007 to Current Year)
Toyota Trucks (*2009 to Current Year)

Android Smart Phones
Version 2.1 or newer

Made in the USA

WARNING
Vehicle operator should focus primary attention to the road while using ***DRIVE***. The information provided by this device should be observed as part of a normal sequence of observations performed in the operation of the vehicle, as with any gauge or other instrumentation. ***DRIVE*** settings should be changed only during conditions when it is safe to do so.
Focusing on the road should be the primary concern of the driver.

Richard Strickland shall not be held liable in any way for any incidental or consequential damages to the vehicle, driver, passengers, and or other involved parties or property occurring while using ***DRIVE***.

Richard Strickland shall not be liable for technical or editorial errors or omissions made herein, nor for incidental or consequential damages resulting from the furnishing or use of this manual.
Richard Strickland reserves the right to make changes to this document and the product described without notice.

Application Description

Drive is an Android application that allows users to read the Transmission Temperature in real-time of their vehicle utilizing a wireless adapter. It also displays coolant temp and intake air temperature as well as any Check Engine trouble codes with descriptions and the ability to erase those codes.

The application requires an adapter called the Elm327 OBDII Bluetooth adapter easily found on eBay and other sites for connecting to the vehicles OBDII diagnostic plug found inside the vehicle, The OBDII plug in the vehicle will be within 3 feet of the steering wheel.

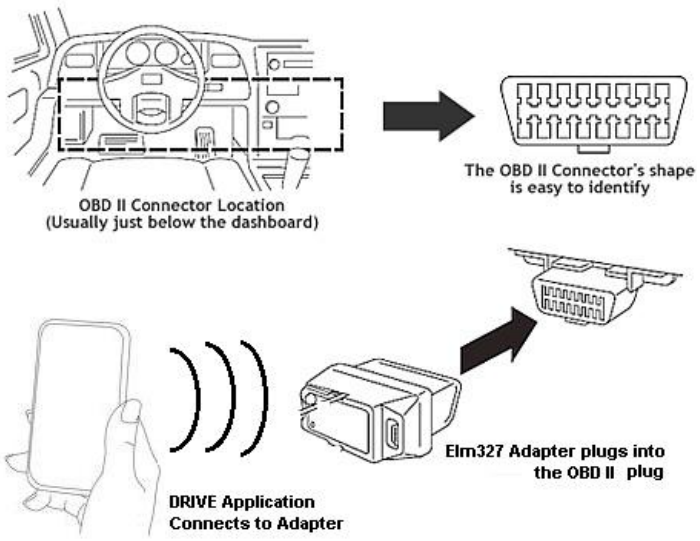
The application requires Android 2.1 or higher on the device in order to use the Bluetooth functionality.

Currently these vehicles are supported:

Ford/Lincoln/Mercury (1996 – Current)
GM/Chevrolet (1996 – Current)
Chrysler/Dodge/Jeep (2007 – Current)
Toyota Trucks (2009 – Current)

*more models in the future
** Diesel vehicles are not supported

Diagram



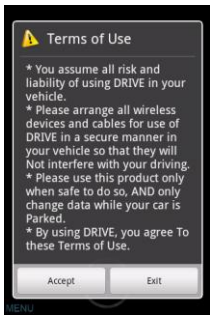
Features

- Real-time Transmission Temperature Meter
- Additional Coolant and Intake Air Temperature shown on Screen
- Alert set point for Transmission Temperature Overheat
- Analog and Digital readout for Transmission Temperature
- Transmission Temperature Digital Color Selection
- Check Engine code readout and description
- Check Engine Trouble Code Erase
- Use in Portrait or Landscape Orientation

Setting up the DRIVE application

Select DRIVE from the program list on the Android device:

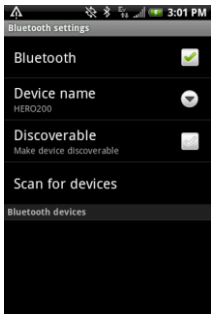
To begin DRIVE you are presented with the "Terms of Use" agreement:



You can either Accept or Exit.

Upon accepting the Terms of Use, the application will check the device to see if the Bluetooth setting is enabled. If not you will be re-directed to the default settings screen of the device:

Then to the Bluetooth settings screen:



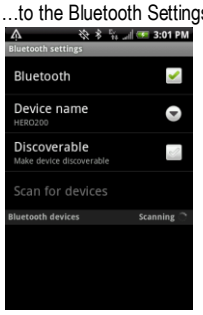
Check Bluetooth to Enable.

Then press the Hardware Back key <~ to return to DRIVE.

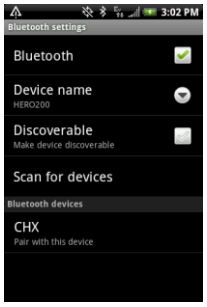
The application will then check to see if any Elm Bluetooth adapters have been setup, if not you will be re-directed to the Bluetooth settings screen. Here is where the android device will find the Elm Bluetooth adapter and store the settings.

Please follow the instructions….

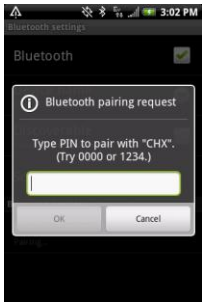
…to the Bluetooth Settings:



Click Scan for Devices.



After found, Click Pair with this Device

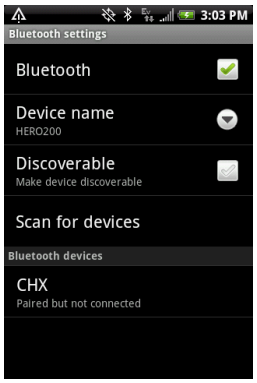


Click on empty box to bring up the Keyboard.

Enter number then Click "OK"

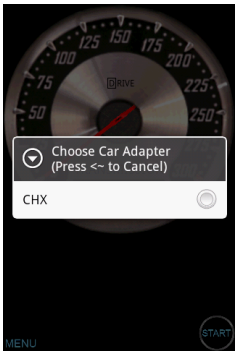
Bluetooth Settings .....Continued

You should now see "Paired but not Connected"



Then press the Hardware Back key <~ to return to DRIVE.

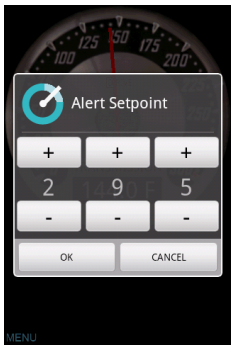
Click Menu on the screen or [MENU] on the Android device, then Click "More" to see the extended Menu, and Click "Select Car Adapter":



The selection will be saved.

Setting the Transmission Alert Point

To set the temperature that will display an alert for overheat, Click Menu, then Click "Set Alert Point":



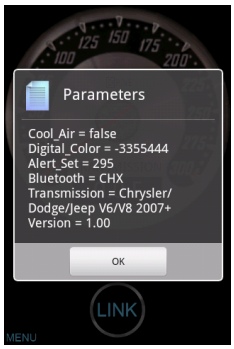
The alert temperature will be saved. When the transmission temperature is over the Alert set point, then the Alert will display and flash red until the temperature drops below the set point. →

Transmission Selection

Click Menu on the screen or [MENU] on the Android device, then Click "Select Transmission"
Scroll the list to find your Transmission (some will have "II" as an alternate to use if the first does not work). The selection will be saved.

View Parameters

Saved Menu Parameters can be view by the Menu/More "Show Parameters":



Parameter Definitions

Cool_Air If the Coolant & Intake Air temperature is displayed.
Digital_Color The RGB color code for the Digital Display.
Alert_Set The set point temperature for Overheat Alert.
Bluetooth The Elm327 Bluetooth adapter name.
Transmission The transmission selected.
Version The version of DRIVE installed.

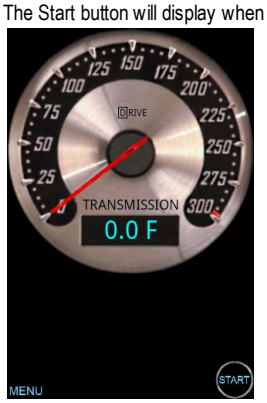
Running the DRIVE application

Once you have gone thru all the previous settings, the application is now ready to Link (connect) and run.

From the main gauge screen you should see a "Link" button. To begin reading the transmission temperature, follow these steps:

- Plug Adapter into vehicle OBD II plug
- Switch On Ignition or Start vehicle (either one will work)
- Click "Link" button on DRIVE application

The Start button will display when ready.



Click "Start, the adapter will analyze the type of communication the vehicle uses so it may take a few seconds to initially connect and read the transmission data.

*Note: Some Chrysler/Dodge/Jeep vehicles use the radiator coolant sensor instead of the transmission sensor while in Park or Neutral. When the transmission is shifted to Drive, it will read the transmission sensor)

Turning Off the Ignition

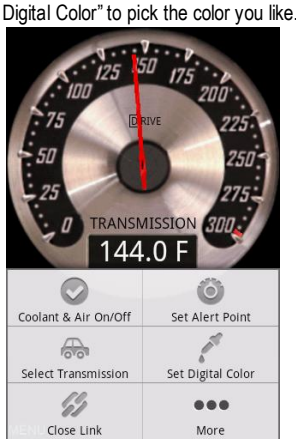
While running DRIVE, if you turn off the ignition, the program will go to standby and check every 30 secs for the ignition to come back on. Once ignition is on, the program will resume within the 30 sec window. (The "Start" button is available too). If you are finished with DRIVE, just go to the Menu and click "Close Link" to disconnect from the Bluetooth adapter.

Display Coolant and Air Intake Temperatures

To enable/disable the display of Coolant and Air Intake Temperatures, Click Menu and then Click "Coolant and Air On/Off". A colored tick will display on the gauge indicating the corresponding temperature as well as a digital readout.

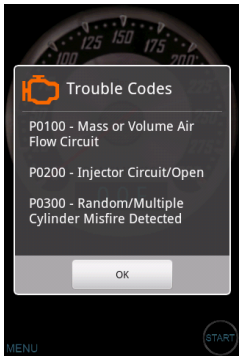
Change Digital Color

To change the color of the Transmission Digital Display, Click Menu then Click "Set Digital Color" to pick the color you like.



Trouble Codes

To see why the Check Engine Light was turned on by the On Board Computer in your vehicle, Click Menu/More and Click "Search for Trouble Codes".
(*You can also see if there are any pending Diagnostic Trouble Codes that would not turn on the Check Engine Light).

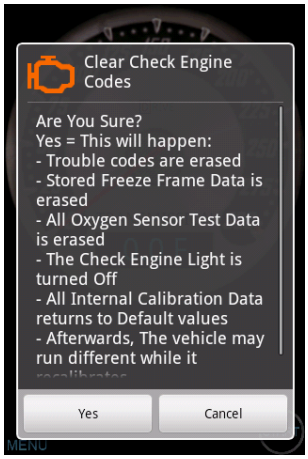


If there are no Trouble Codes, Then the message "No Trouble Codes Found" will be displayed.

Clear Trouble Codes

To clear Trouble Codes and turn Off the Check Engine Light, Click Menu/More and Click "Clear Check Engine Light"

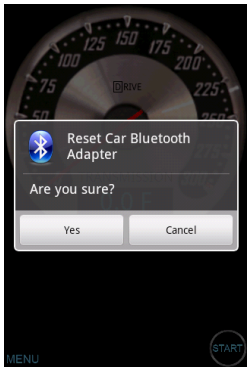
A warning will display, asking "Are You Sure?" for the reasons listed.



If you are sure, then Click "Yes" and a message will be displayed once confirmation has been received:

Reset Elm327 Adapter

If you have trouble linking to another vehicle after using the application and adapter on a different vehicle, then sometimes it's helpful to issue a reset command to the Elm327 adapter. Just Click on Menu/More then Click on "Reset Car Adapter" to issue the command.



If you are sure, then Click "Yes" and a message will be displayed once confirmation has been received: