MM4X4 VEHICLE ELECTRONICS

lockup-mate® PLUS+

ALL TOYOTAS

CarScanner Phone App Setup

Version 1 – 10/25

This document captures the configuration settings for the CarScanner app which I successfully used in conjunction with lockup-mate®PLUS+. The OBD2 reader I prefer to use, though, is an UltraGaugeMX.

My CarScanner configuration:

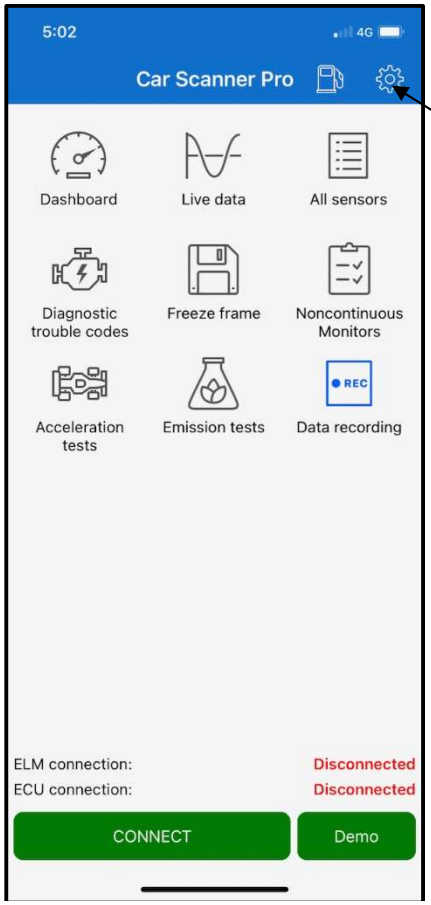
2016 LC200 Sahara 4.5L Diesel

vGate iCarPro Bluetooth 4.0 OBD2 dongle

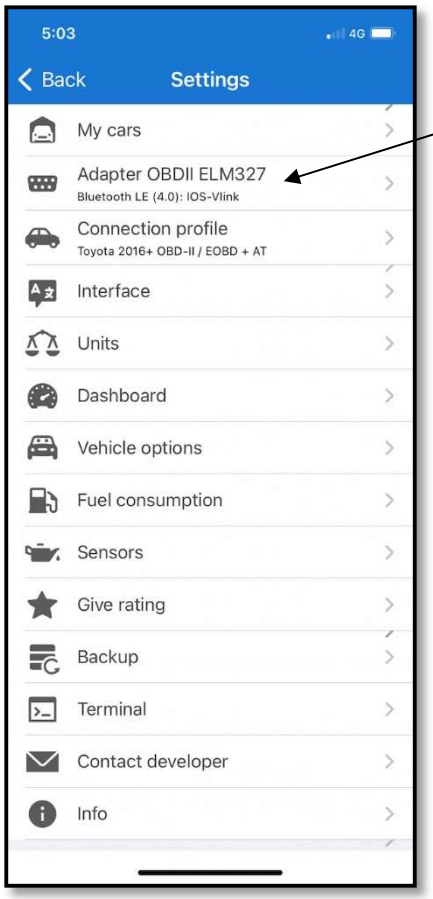
iPhone 11

Programming the CarScanner App

These instructions assume you are familiar with how to use the App and how to setup a page to display your preferred vehicle parameters onto the screen. If not, please refer to the App manual for more detail.

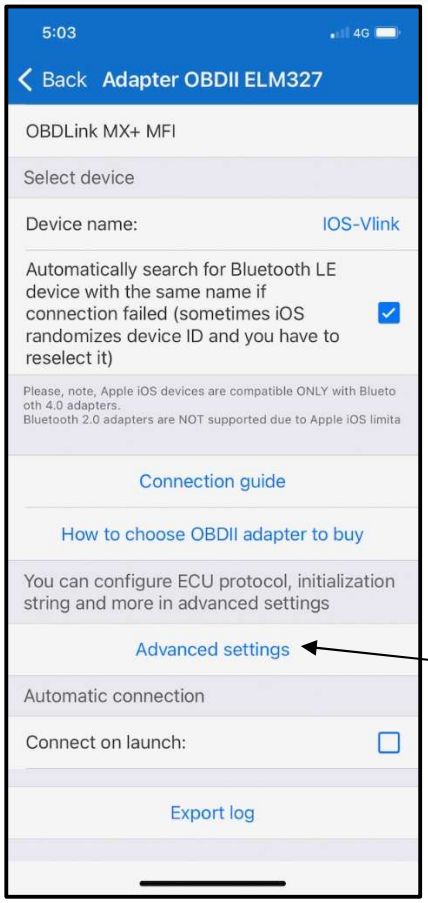


Press settings.



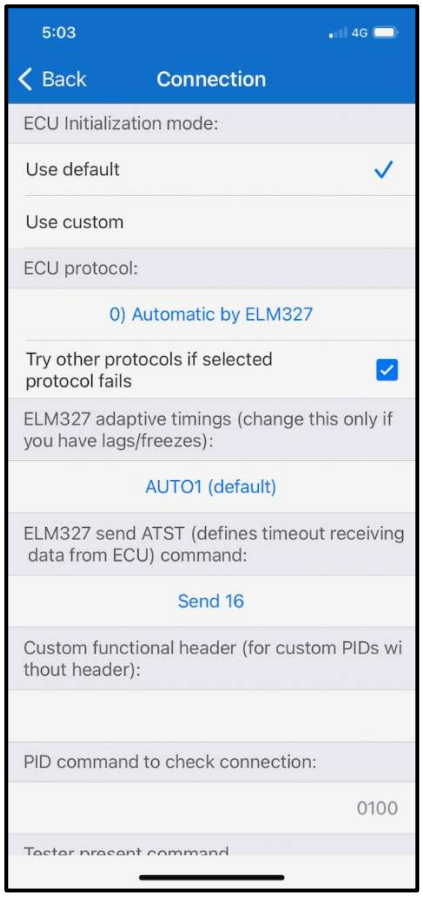
Press.

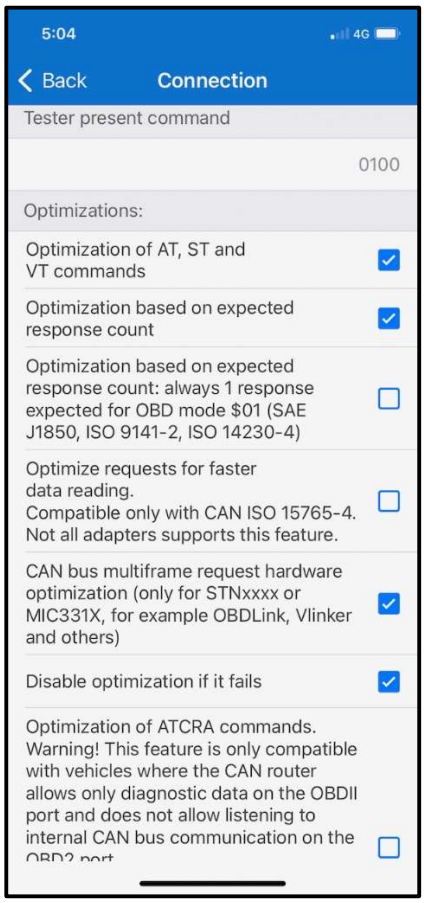
Following screens are the settings in this item.

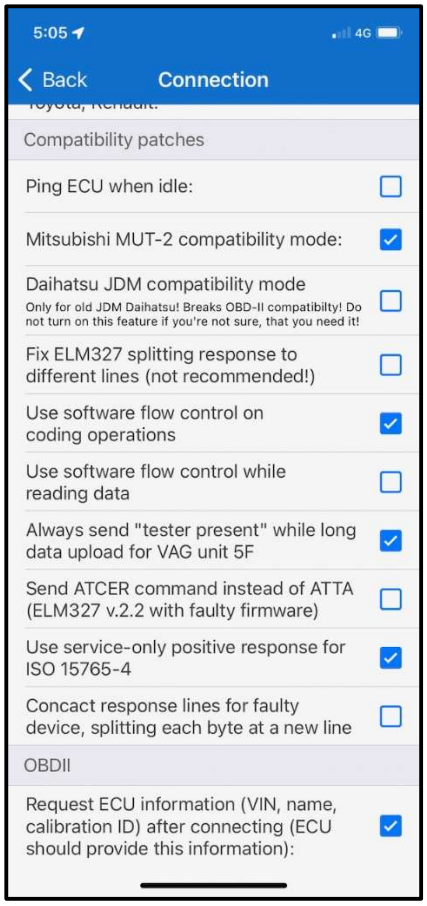


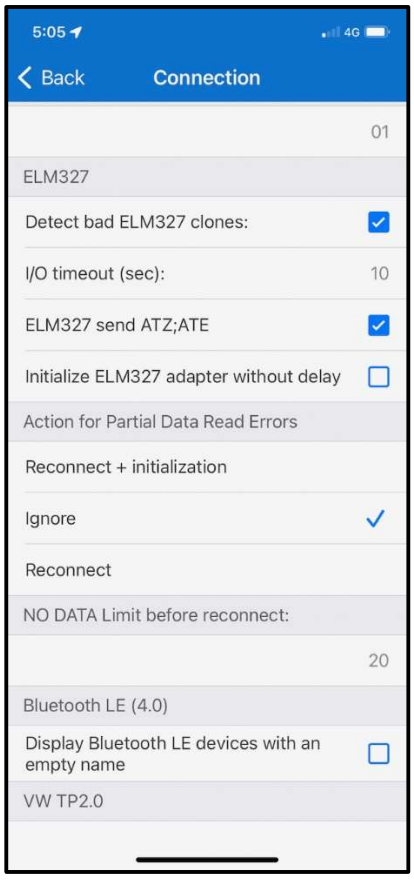
Press Advanced Settings

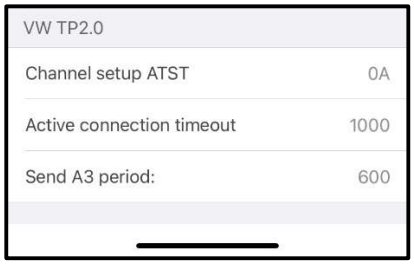
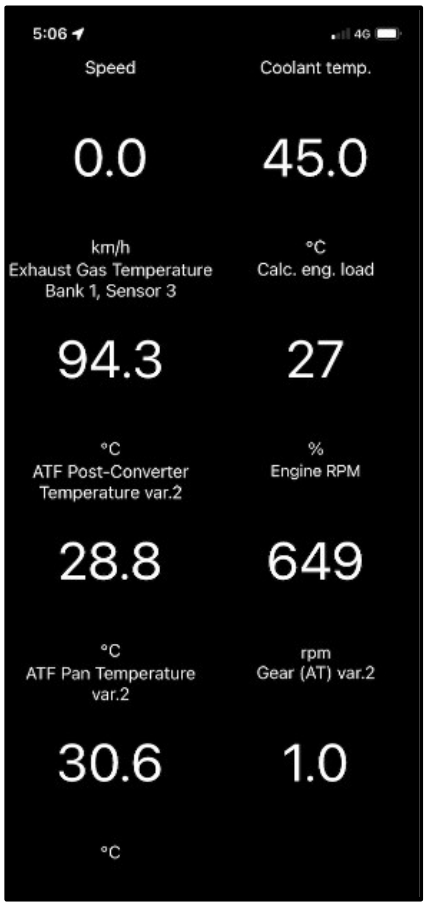
Following screens are the configuration settings for this item.


5:03
4G
Back
Connection
ECU Initialization mode:
Use default
Use custom
ECU protocol:
0) Automatic by ELM327
Try other protocols if selected protocol fails
ELM327 adaptive timings (change this only if you have lags/freezes):
AUTO1 (default)
ELM327 send ATST (defines timeout receiving data from ECU) command:
Send 16
Custom functional header (for custom PIDs wi thout header):
PID command to check connection:
0100


5:04
4G
Back
Connection
Tester present command
0100
Optimizations:
Optimization of AT, ST and VT commands
Optimization based on expected response count
Optimization based on expected response count: always 1 response expected for OBD mode $01 (SAE J1850, ISO 9141-2, ISO 14230-4)
Optimize requests for faster data reading. Compatible only with CAN ISO 15765-4. Not all adapters supports this feature.
CAN bus multiframe request hardware optimization (only for STNxxxx or MIC331X, for example OBDLink, Vlinker and others)
Disable optimization if it fails
Optimization of ATCRA commands. Warning! This feature is only compatible with vehicles where the CAN router allows only diagnostic data on the OBDII port and does not allow listening to internal CAN bus communication on the


5:05
4G
Back
Connection
Compatibility patches
Ping ECU when idle:
Mitsubishi MUT-2 compatibility mode:
Daihatsu JDM compatibility mode
Only for old JDM Daihatsu! Breaks OBD-II compatibilty! Do not turn on this feature if you're not sure, that you need it!
Fix ELM327 splitting response to different lines (not recommended!)
Use software flow control on coding operations
Use software flow control while reading data
Always send "tester present" while long data upload for VAG unit 5F
Send ATCER command instead of ATTA (ELM327 v.2.2 with faulty firmware)
Use service-only positive response for ISO 15765-4
Concact response lines for faulty device, splitting each byte at a new line
OBDII
Request ECU information (VIN, name, calibration ID) after connecting (ECU should provide this information):


5:05
4G
Back
Connection
01
ELM327
Detect bad ELM327 clones:
I/O timeout (sec):
10
ELM327 send ATZ;ATE
Initialize ELM327 adapter without delay
Action for Partial Data Read Errors
Reconnect + initialization
Ignore
Reconnect
NO DATA Limit before reconnect:
20
Bluetooth LE (4.0)
Display Bluetooth LE devices with an empty name
VW TP2.0



Screen parameters which updated correctly