# TRAC - PAC™

## Family of shift lights

# Instruction Booklet

v1.0

FAST LANE INNOVATIONS, LLC

Thank you for purchasing the premier shift light technology we call the ***Trac-Pac™*** Shift Light. This guide is intended to get you started in your quest towards consistency and beating the competition. There are many features included in the shift light and the companion Performance Optimizer App. The guide will point them out, but should you have any questions, you can contact us for help at:

**customerservice@fastlaneinnovations.com**

Below are QR codes to quickly direct you to the app stores.

At Fast Lane Innovations, we're committed to providing innovative products to help you get the most out of your vehicle and driving, and strive to continuously improve these products.

**Google Play Store Link**

**Apple App Store Link**

**Please read and follow all instructions**. Failure to do so can void the warranty, cause damage to the device, damage your vehicle or other property, and/or result in personal injury.
This device is intended only for use in motor vehicles.

## Safety and Precautions

Disconnect your negative battery cable prior to beginning.

Double-check all connections prior to turning on power to the unit.

**CAUTION** - Wear safety glasses while installing the unit.

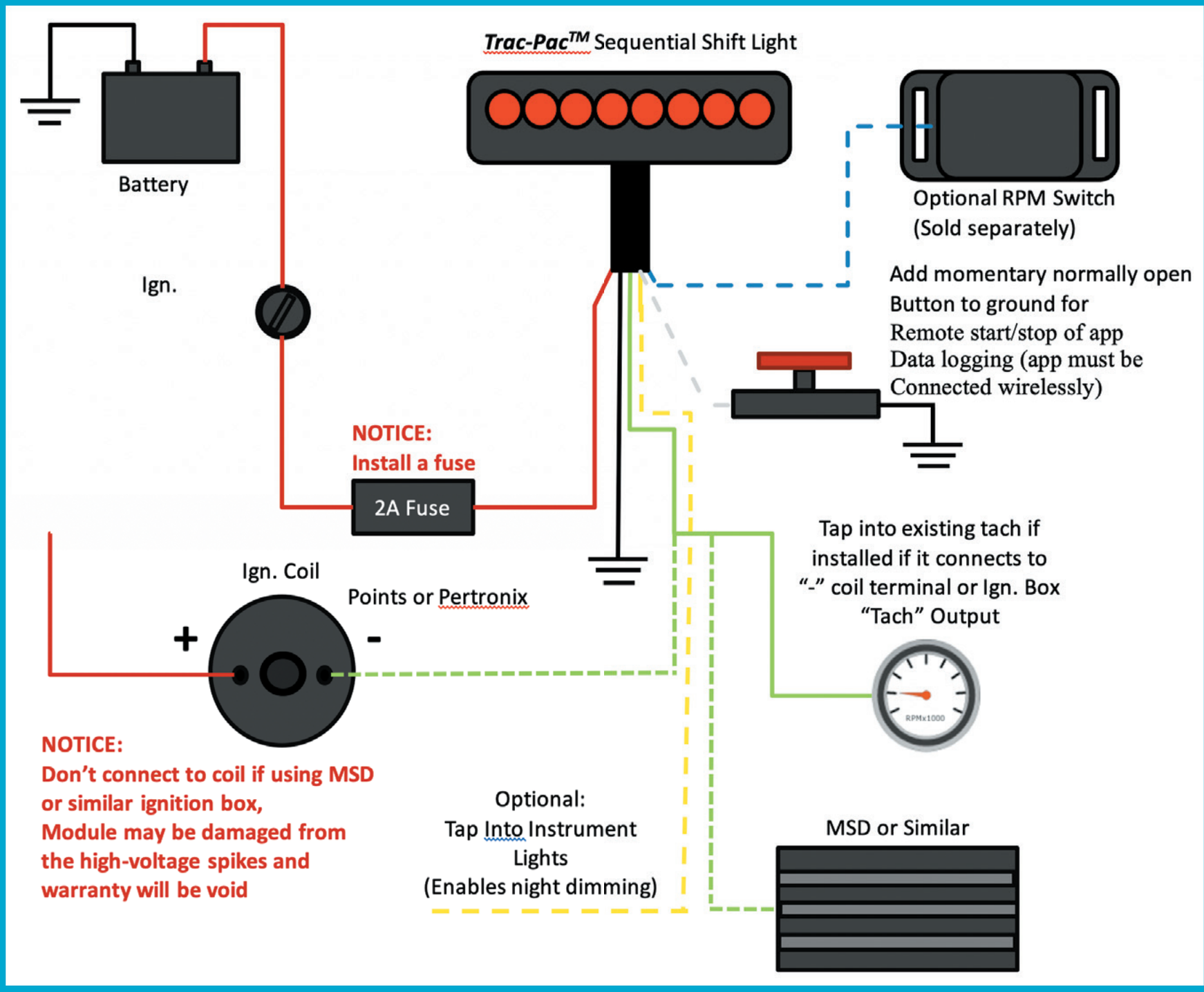
**NOTICE** - A 2A fuse is recommended on the connection to switched 12V source to prevent damage or fire in case of a short or malfunction – install close to power source.

**WARNING** - Pay attention to driving, don't stare at the lights or use your mobile device while driving! The RPM can be logged by the app for later review while not driving.

**WARNING** - the LED's can be VERY bright especially at night, which can disrupt vision or cause distraction. Set the brightness low enough to avoid this especially at night or in dark conditions.

**WARNING** – If the unit malfunctions or causes any distraction, safely come to a stop and cover it or disconnect the power source. Remove the fuse to de-energize the power lead.

# WIRING DIAGRAM

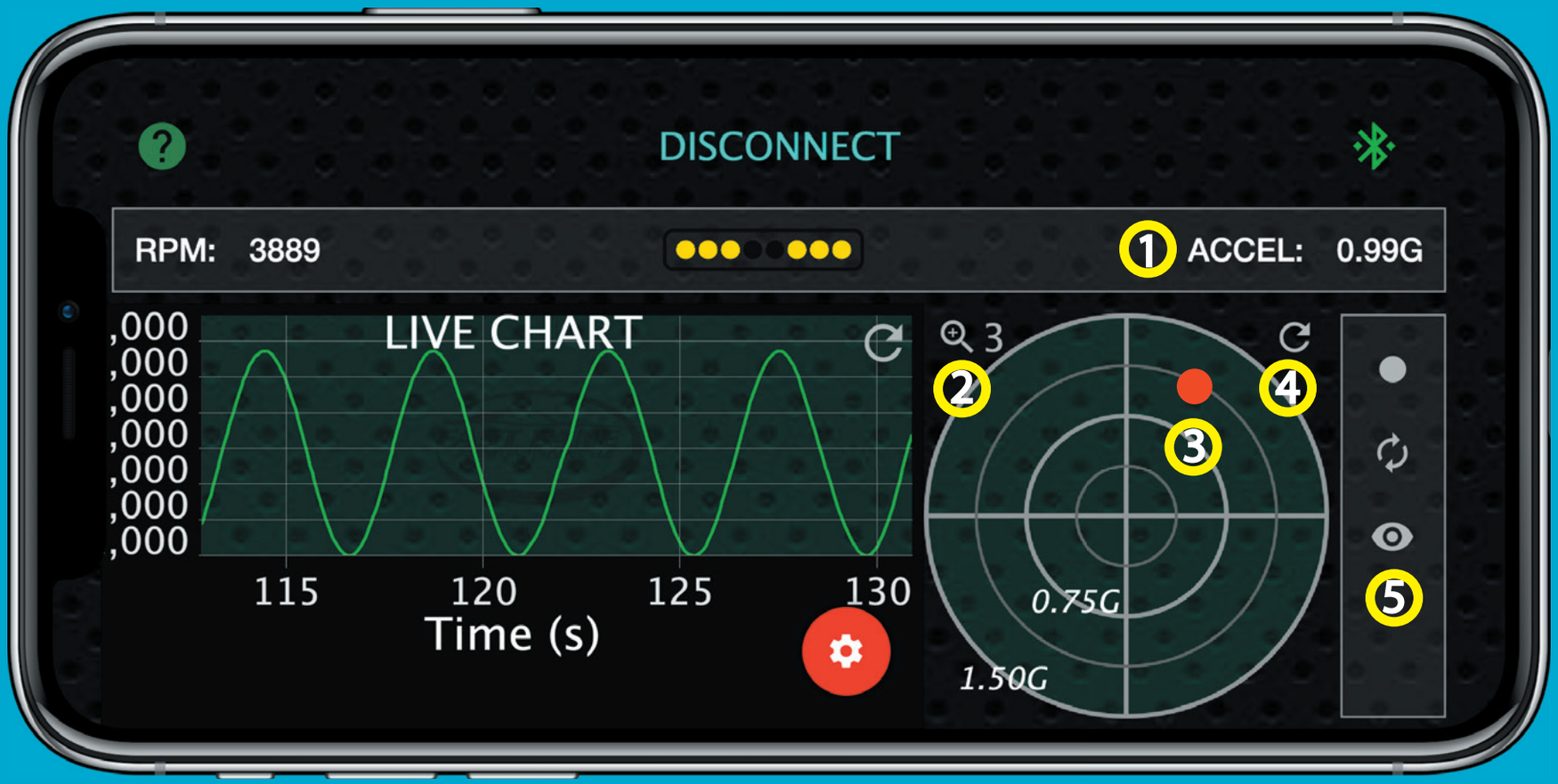



NOTE: Green wire should not be connected if OBD-II is used
Using white wire is optional


# MAIN SCREEN - PORTRAIT

1. Go to info page- links to instructions and last connected device information
2. Connect/Disconnect to shift light - disconnecting is not required
3. Connection indication - "OBD" will be present when connected to an OBD-II wireless module, which will happen automatically when module is present and has power
4. RPM and shift light level indicator
5. Reset Chart
6. Settings Controls
7. "REC" Starts/Stops logging, will pulse red when recording
8. Set to auto-start/stop logging at preset RPM (see Settings Control to set)
9. View logs captured to date

# MAIN SCREEN - LANDSCAPE

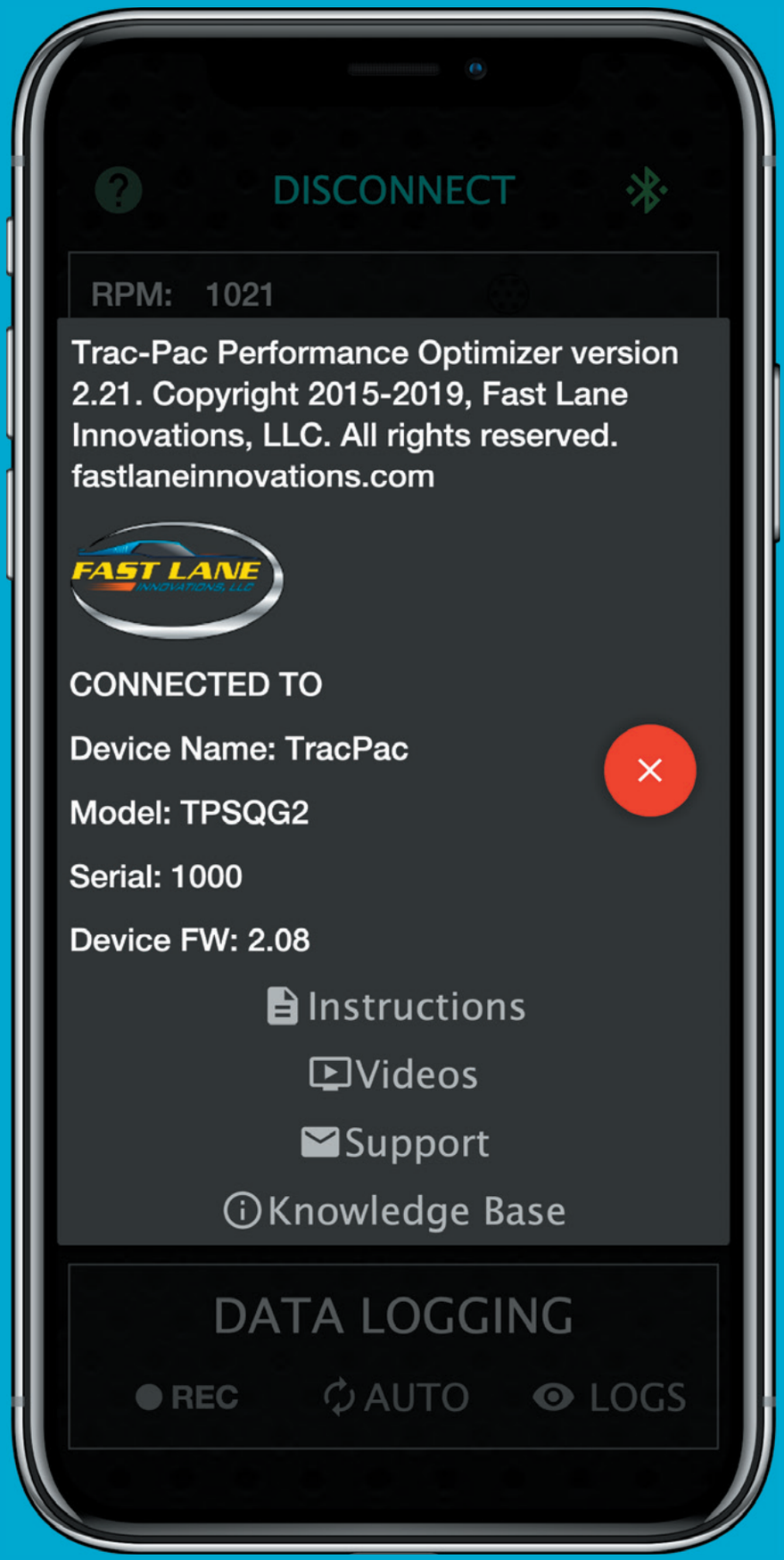



1. Acceleration magnitude - combined magnitude of forward/lateral
2. Change scale of acceleration chart - notice the “0.75G” and “1.5G” labels on the chart rings, these will change scale as the button is pressed
3. Acceleration indicator
4. Reset acceleration chart - recommend only doing when stopped, note that after pressed it will wait for some motion to determine forward direction (accelerate straight forward at this time and it will be correctly initialized)
5. Logging controls (see previous page as well)

# INFO SCREEN

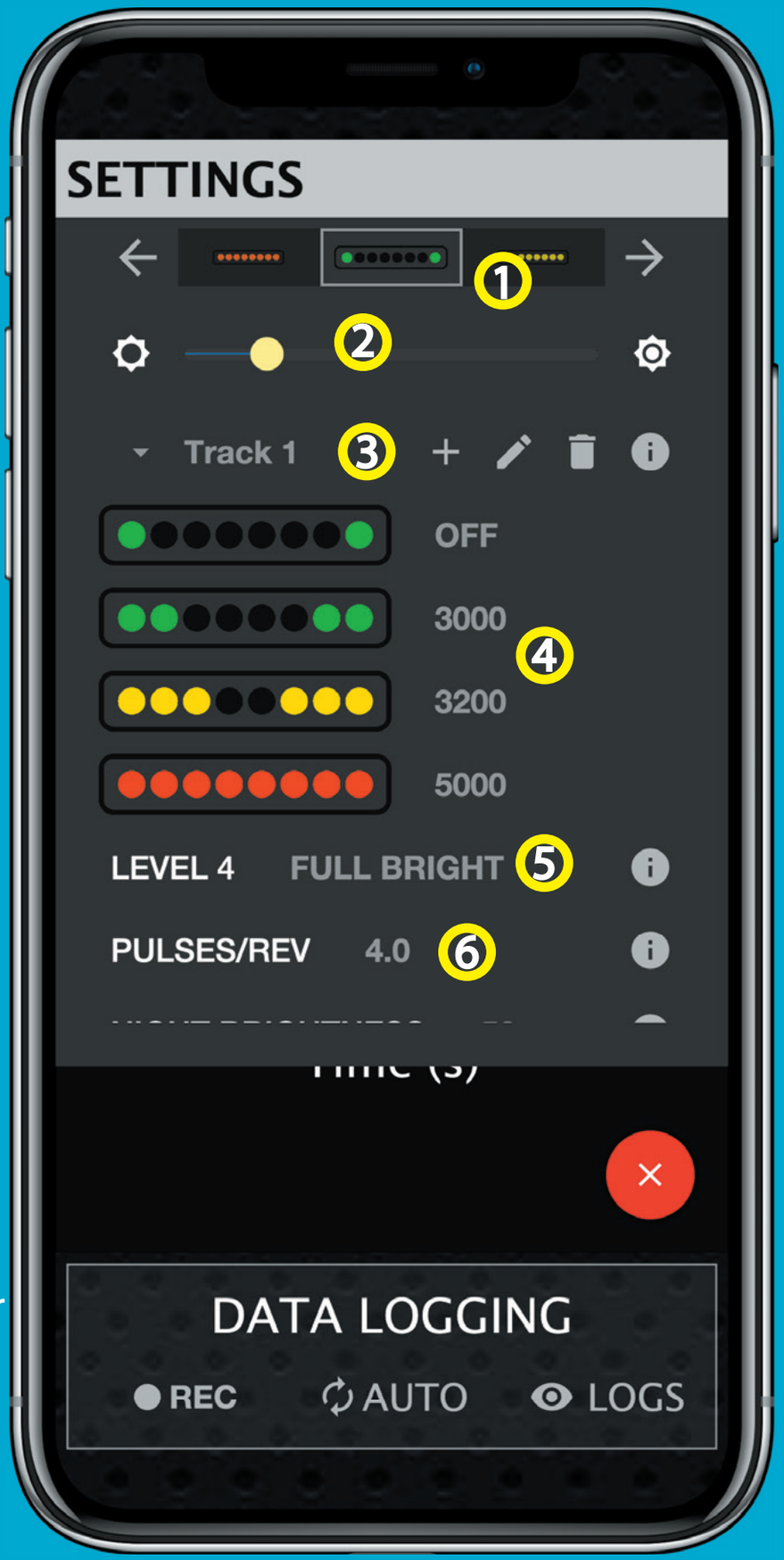
The information screen contains:

- Copyright information
- Click the company logo to connect to the website
- Information about the last connected shift light
- Helpful links to instructions, videos, knowledge base, or send an e-mail for support



# SETTINGS SCREEN

1. Light animation mode selector - press arrow keys to change, current mode is shown in center box
2. Daytime brightness control
3. Saved settings selector - save the RPM settings for different vehicles or tracks. Press "+" to add a new file, changes will be made to the currently shown file, "Log" in this case. Press the pencil to edit the name, and the trash can to delete the current file.
4. RPM levels - set the RPM to trigger levels 1-4. Set to zero to disable that level (except level 4)
5. Behavior of lights at level 4 - no difference, light at max brightness, flash at current brightness setting, flash at max brightness
6. PPR for your engine (pulses per revolution), e.g. set to 4 for a V8 with a single coil/distributor. See video for additional help (click videos link on info page)



## MORE SETTINGS (SCROLL DN)

① RPM Demo mode animates lights even if there is no tach signal or OBD-II, so you can see how it will look while setting up

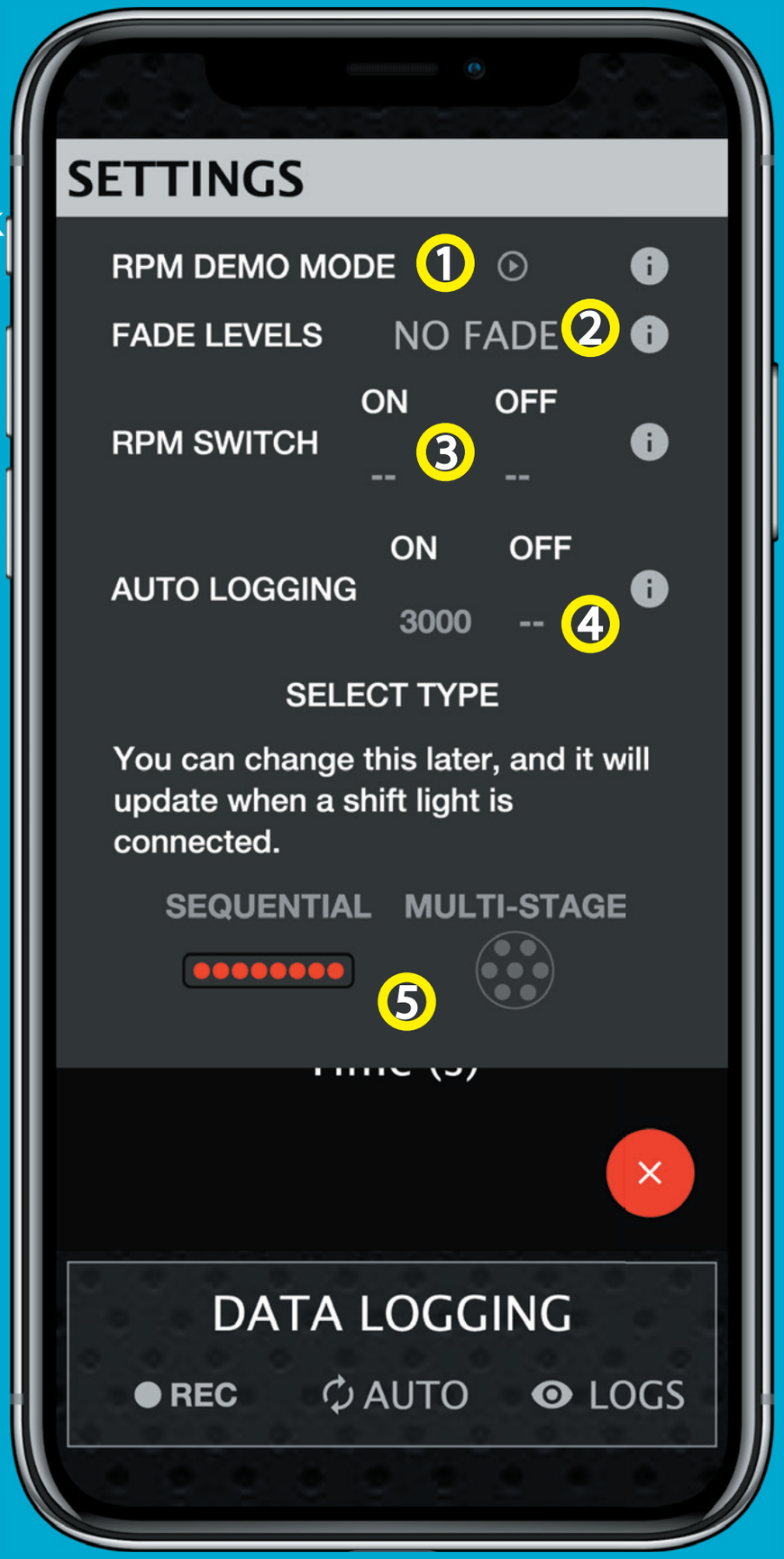
② Fade between levels for a smooth transition

③ Set the RPM switch on and off set-points for optional switch accessory

- On higher than off - stays on after triggering until RPM drops below off point (keep nitrous on above a certain RPM until you let off)
- On lower than off - window switch
- On = Off - simple on/off behavior, on when above setting and off when below

④ Set up auto-logging on/off RPM, must also enable it on main screen by selecting "AUTO". Automatically starts/stops logging at set RPM

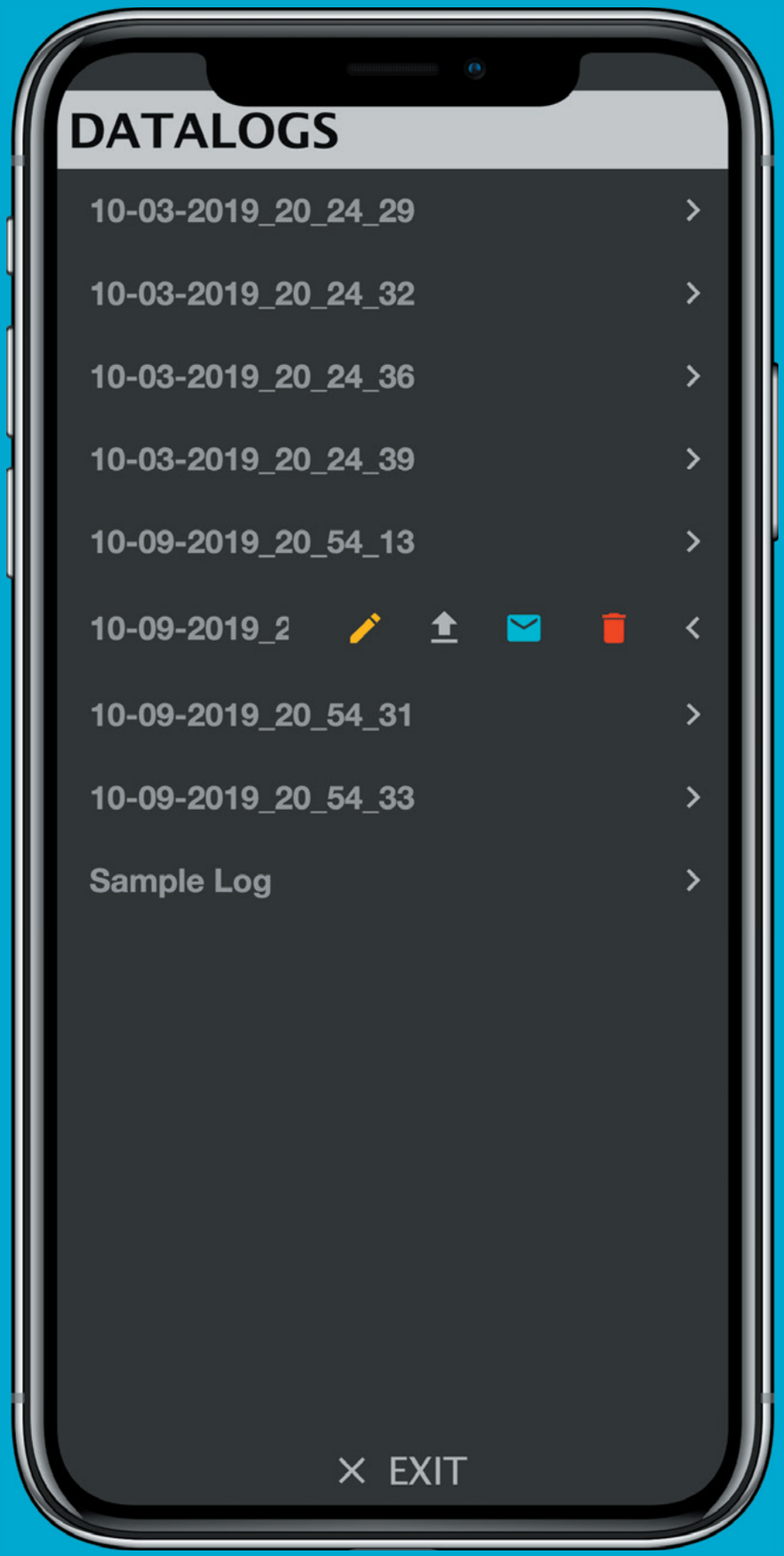
⑤ Choose the type of shift light you plan to use, this should set itself after connecting automatically



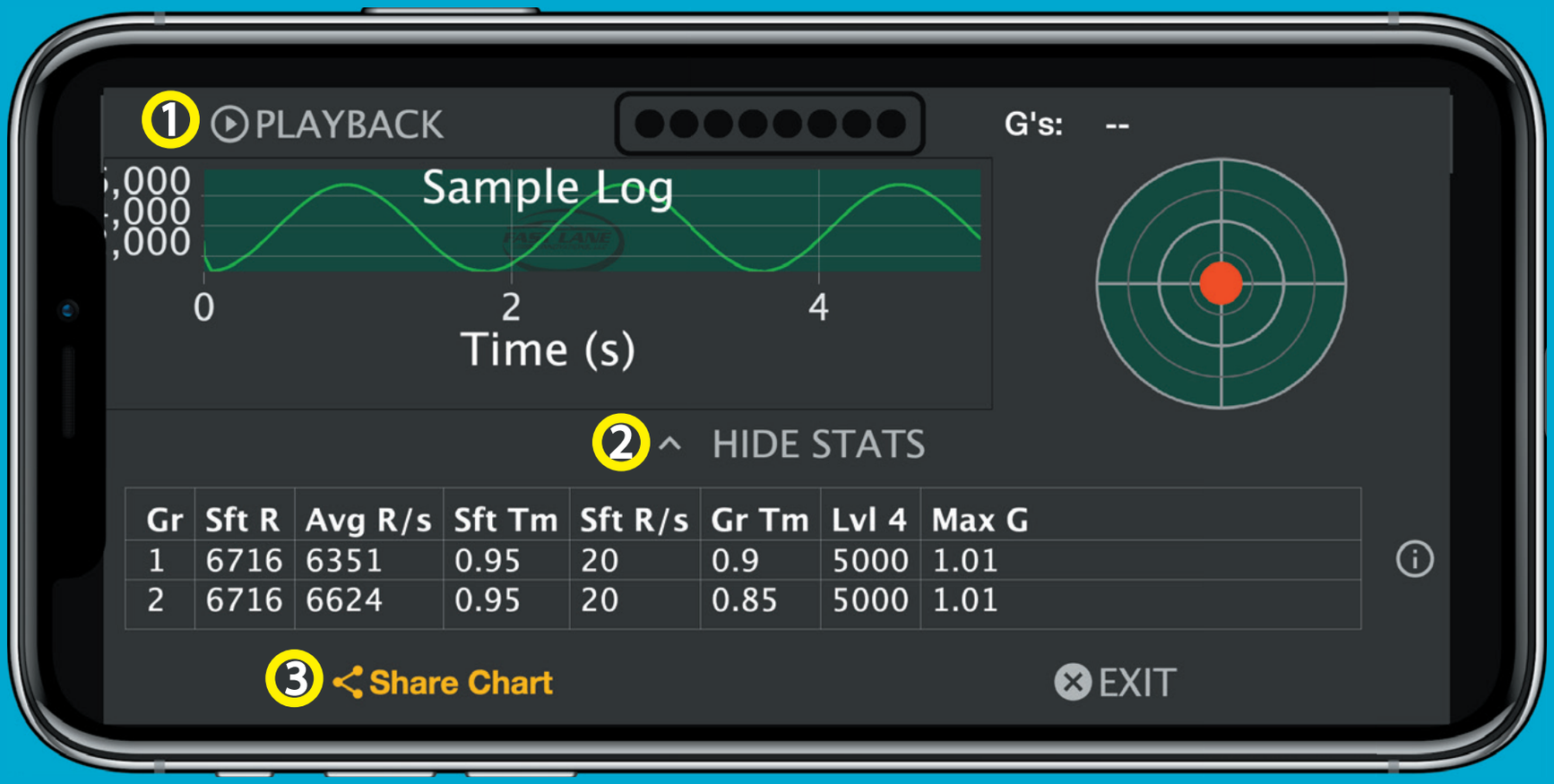
# LOG LISTING

As you record logs, this list will grow to show them.
Click on the name (by default the date and time you started logging) to view the log.
Click on the arrow on the right edge of the log name's row to expand an option menu

- Pencil - rename the log
- Up arrow - change the current RPM level settings to match the settings when this log was recorded
- Envelope - e-mail the log in CSV format
- Trash can - delete this log, an undo option will appear along the bottom of the screen for 5 seconds, click it to restore the log or it wil be permanently deleted



# LOG VIEWING




The portrait orientation is similar, but excludes the acceleration chart

1 Press "PLAYBACK" to animate the charts real-time so you can get an understanding of your run

2 Clicking "SHOW STATS" will display information automatically calculated for each gear (mainly useful for drag racing). The app will determine when gears are shifted based on the RPM being above level 4 and then changing suddenly (either decreasing due to pressing clutch and releasing throttle or increasing in case of power-shifting or torque-converter flash), and considers the hear change complete after the RPM has dropped below level 4 and started rising again. The app doesn't actually know which gear you are in.

3 Share the chart by e-mail or Facebook, etc. Show your friends!

# FCC Notice

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

* Reorient or relocate the receiving antenna.
* Increase the separation between the equipment and receiver.
* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
* Consult the dealer or an experienced radio/TV technician for help.

In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

**This device contains FCC ID: HSW2832**
**This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:**
**(1) This device may not cause harmful interference and**
**(2) This device must accept any interference received, including interference that may cause undesired operation.**