

GEAR DISPLAY — QUICK GUIDE

1. PRODUCT OVERVIEW

The StroMech Gear Display is a motorsport-style add-on that shows you exactly what gear you're in, at a glance, in any car — road, track, modified or kit car. It plugs straight into the OBD-II port and reads the CAN bus to work out your current gear in real time. CAN bus has been standard on OBD-II since 2008, so most cars are compatible out of the box. Older vehicle? No problem — many pre-2008 cars support it too, just ask and we'll check.



2. INSTALLATION

The Gear Display connects via the vehicle's OBD-II port — no cutting or permanent wiring is required.

1. Locate the vehicle's OBD-II diagnostic port, usually under the dashboard near the steering column.
2. Plug the Gear Display's OBD-II connector into the port.
3. Mount the display unit where it is clearly visible while driving, using the supplied mount.
4. Turn on the ignition — the display powers on.
5. Before relying on the gear indication, complete the Gear Calibration procedure described in Section 3.

3. GEAR CALIBRATION

WHAT YOU NEED	• OBD-II connector from the Gear Display plugged in. • Engine running. • A safe space to drive, so you can use and calibrate all forward gears.
HOW IT WORKS	• A blinking number means that gear is waiting to be learned. You can shift freely while it blinks. • A solid (not blinking) number means: hold and drive steadily in that gear until the next gear starts blinking. • Gears are calibrated in order: 1 → 2 → 3 → ... → last gear.

CALIBRATION STEPS	1. Start calibration: Press and hold the CALIBRATION button for 2+ seconds. → “1” starts blinking. 2. Learn gear 1: Shift to 1st gear and drive steadily. Press the CALIBRATION button once to confirm. The display shows “1” solid for a few seconds while learning. When learning finishes → “2” starts blinking. 3. Learn gear 2: Shift to 2nd gear and drive steadily. Press the CALIBRATION button once to confirm. The display shows “2” solid for a few seconds while learning. When learning finishes → “3” starts blinking. 4. Repeat: for all remaining forward gears (3, 4, 5, ...). While the number blinks you may shift up/down freely; when it is solid, stay in that gear until the next one starts blinking. 5. Finish: After calibrating the last forward gear, the next indicator will blink. Press and hold the CALIBRATION button for 2 seconds to save and exit. → The display returns to normal operation. 6. Tip: Keep RPM and speed steady during each gear's learning step. If a mistake happens, simply end calibration and repeat the process.
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4. SHIFT LED CALIBRATION

Configure the Shift LED with the vehicle stationary and the engine running.

CALIBRATION STEPS

- 1. Enter setup:** Press and hold the SHIFT LED button for 2 seconds. The Shift LED starts blinking (setup mode). Plug the Gear Display's OBD-II connector into the port.
- 2. Set target:** Raise the engine speed to your desired RPM.
- 3. Save:** Press the SHIFT LED button once. The device saves a threshold equal to the RPM you set.

EXAMPLE

- If you set 2000 RPM and press the button, the Shift LED will activate at 2000 RPM or higher.

DISABLE SHIFT LED

- Press and hold the SHIFT LED button for 4 seconds. → When the LED stops blinking, the shift function is disabled. To re-enable, repeat the setup steps and save a new RPM.

5. ON/OFF BUTTON

The Gear Display has an On/Off button so you can quickly turn the screen off when you don't need it, reducing distraction. You do not need to unplug the OBD-II connector.

HOW IT WORKS

- Press and hold the ON/OFF button for 2 seconds → the display turns off.
- To wake the display, press and hold the ON/OFF button for 2 seconds again → the screen turns back on.

6. ERROR CODES

“F” BLINKING	No data received. Your vehicle does not have the supported communication protocol (ISO 15765-4, 11-bit ID, 500 kbit/s).
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7. INTENDED USE AND SAFETY INFORMATION

FOR RACING, AND OFF-ROAD USE ONLY. The StroMech Gear Display is not type-approved and is not designed, tested or certified for use on public roads. It is intended solely as a supplementary information display for closed-course motorsport, track-day and off-road use.

By installing or using this product, you acknowledge and agree to the following:

- Motorsport and vehicle racing are inherently dangerous activities that carry a significant risk of property damage, personal injury or death. By taking part in racing, track days or similar activities, you voluntarily accept these risks.
- The StroMech Gear Display is an auxiliary information device only. It is not a safety device, is not a substitute for the vehicle's original instrumentation, and its use does not guarantee personal safety, vehicle safety, or accurate operation under all conditions.
- StroMech Electronics and its contributors make no warranty, express or implied, regarding the accuracy, reliability, fitness for a particular purpose, or merchantability of this product.
- To the fullest extent permitted by applicable law, StroMech Electronics disclaims all liability for any direct, indirect, incidental, special or consequential damages — including, without limitation, loss of life, personal injury, or damage to vehicles or property — arising from the sale, installation, calibration or use of this product.
- It is the sole responsibility of the user to inspect, verify and confirm that the product is correctly installed, calibrated and functioning as intended before relying on it, and to inspect it regularly for damage, wear or malfunction.
- Any modification, misuse, incorrect installation, or use outside the scope described in this guide is done entirely at the user's own risk.
- Installation of this product may interact with other vehicle systems. StroMech Electronics assumes no responsibility for any damage to other vehicle components or systems resulting from its installation or use.

If you do not agree with the above, do not install or use this product.