

# Traction Control

## What is Traction Control?

**Traction Control** is a vehicle safety feature designed to prevent the loss of traction (grip) of the driven road wheels, which can occur during acceleration. By detecting when one or more wheels are slipping, the system automatically applies the brakes or reduces engine power to maintain optimal grip, especially on slippery surfaces.

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## How Does Traction Control Work?

Traction control systems are usually integrated with a car's anti-lock braking system (ABS) and electronic stability control (ESC). The basic operation involves:

1. **Sensors** detect when a wheel is spinning faster than others (indicating loss of traction).
  2. **Electronic Control Unit (ECU)** receives data from sensors and determines the appropriate intervention.
  3. **Intervention:**
    - **Braking:** The system applies brakes to the slipping wheel(s).
    - **Engine Control:** The ECU may reduce engine power or throttle input to minimize wheel spin.
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## Key Components

- **Wheel Speed Sensors:** Monitor the rotational speed of each wheel.
  - **ECU (Electronic Control Unit):** Processes sensor data and manages interventions.
  - **Braking Mechanism:** Engages individual brakes as needed.
  - **Throttle Control (in advanced systems):** Modulates engine power.
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## Benefits of Traction Control

- **Improved Safety:** Helps maintain control during acceleration on wet, icy, or loose surfaces.
  - **Reduced Wheel Spin:** Minimizes tire wear and prevents excessive wheel spin.
  - **Enhanced Stability:** Works in tandem with ABS and ESC for overall vehicle stability.
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## When Does Traction Control Activate?

- Accelerating quickly on wet, icy, sandy, or gravelly surfaces.
  - When one or more wheels begin to slip or lose contact with the road.
  - During sharp turns, especially in low-traction conditions.
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## Limitations of Traction Control

- **Cannot increase tire traction:** Only manages existing traction without creating more.
  - **Limited usefulness on all surfaces:** May not be as effective on extremely slippery or uneven terrains.
  - **Not a substitute for safe driving practices:** Drivers should still use caution in poor conditions.
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## Traction Control in Aventro Motors Cars

Most modern vehicles, including Aventro Motors models across Hatchback, Sedan, and SUV variants, are equipped with traction control as standard or optional, especially in **ZX** or higher trim levels. This is part of Aventro's commitment to vehicle safety and performance under varied driving conditions.

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## Traction Control Indicator Light

The dashboard display will often include a traction control symbol: - **Illuminates briefly when system is engaged or if road conditions are slippery.** - **Constant illumination** may indicate a fault in the traction control system; service is recommended at an authorized **Aventro Service Center**.

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## Maintenance & Service

If you experience issues with traction control (warning lights, loss of system function), contact your nearest **Aventro Service Center** for diagnostics and repair. Problems could relate to faulty wheel speed sensors, wiring, or ECU malfunction.

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## Related Services at Aventro Motors

- **Electrical System Diagnostics**

- **Dashboard Display Repair**
  - **Wheel Alignment**
  - **Regular Maintenance**
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## **Frequently Asked Questions**

### **Can I switch off traction control?**

Some models offer the ability to temporarily disable traction control, useful in specific situations like getting a stuck vehicle moving. Refer to your Aventro Motors owner's manual for guidance.

### **Does traction control replace winter tires?**

No, traction control assists traction, but does not substitute proper tire selection for icy or snowy conditions.

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For further information, service, or support, contact Aventro Motors Service Centers or email [info@aventromotors.com](mailto:info@aventromotors.com).

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