

4 0 tfsi engine with cylinder on demand

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What is a 4.0 TFSI Engine with Cylinder on Demand?

The 4.0 TFSI engine with cylinder on demand is a technologically advanced V8 engine developed by Audi. This engine features a cylinder deactivation system, which allows it to operate on only four cylinders under certain conditions to improve fuel efficiency.

How does Cylinder on Demand Work?

When the engine is operating at low loads, a computer-controlled system deactivates four of the eight cylinders. The remaining four cylinders continue to operate, providing sufficient power while reducing fuel consumption. As soon as the demand for more power increases, the deactivated cylinders are reactivated seamlessly.

What are the Benefits of Cylinder on Demand?

The cylinder on demand system offers several benefits, including:

- Improved fuel efficiency: Deactivating half of the cylinders significantly reduces fuel consumption, especially during low-load driving conditions.
- Reduced emissions: By reducing fuel consumption, the engine also emits fewer greenhouse gases.
- Enhanced performance: The cylinder deactivation system ensures that the engine provides adequate power when needed, without compromising fuel efficiency.

Is Cylinder on Demand Reliable?

The cylinder on demand system in the 4.0 TFSI engine is designed to be highly durable and reliable. The system uses sophisticated sensors and actuators to ensure smooth and seamless operation of the deactivation process.

What Vehicles Use a 4.0 TFSI Engine with Cylinder on Demand?

The 4.0 TFSI engine with cylinder on demand is currently available in several Audi models, including:

- Audi RS 6 Avant
- Audi RS 7 Sportback
- Audi SQ7
- Audi SQ8
- Audi S8

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