

Quadra-Trac II® NV245 Active Full-Time Four-Wheel Drive

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Quadra-Trac II® is an active four-wheel-drive system with center differential that features an electronically controlled clutch pack. The system actively and quickly responds to wheel slippage with the ability to send up to 100 percent torque to the front or rear axle. The Quadra-Trac II 4x4 system gives the customer the benefit of the NV245 two-speed active transfer case and 4-Wheel BTCS.

Four-Wheel Drive Modes

High-range four-wheel drive (4Hi): In this position, the center differential sends 48 percent of the engine power to the front axle, and 52 percent to the rear. Additionally, the center differential is coupled with an electronically controlled clutch pack that can send 100 percent of the engine torque to the axle with the most traction.

Neutral (N): This position allows the vehicle to be towed behind another vehicle (such as a motor home) without uncoupling the driveshafts.

Low-range four-wheel drive (4Lo): In low range, the engine power is sent through another set of gears that multiply torque 2.72:1. By more than doubling the transfer gear ratio, the vehicle has greatly improved torque and control in low-speed technical driving situations (for use in more challenging off-road situations).

When to Use

High range: All road surfaces, including wet or snow-covered pavement, sand, gravel, etc.

Low range: When conditions require added low-speed power, for technical driving situations or circumstances where added torque is helpful, such as pulling a boat trailer out of the water.

How to Engage Four-Wheel-Drive Low Range

Slow to 2-3 mph and shift the vehicle transmission into Neutral. While still rolling forward in Neutral, pull the transfer-case switch up to engage 4Lo. The switch will return to its normal position when you let go. Return the vehicle transmission to the desired gear.

Availability

Available on four-wheel-drive Jeep® Grand Cherokee and Commander.

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