

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

August 7, 2005, Auburn Hills, Mich. -

The Quadra-Drive® II Jeep® 4x4 system combines the NV245 full-time transfer case with Electronic Limited Slip Differentials (ELSD) for best-in-class tractive performance. The system instantly detects tire slip and smoothly distributes engine torque to the tires with traction. In some cases, the vehicle will even anticipate low traction and adjust to proactively limit or eliminate slip.

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 severe 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 put 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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