XTRONIC CVT

A continuously variable transmission (CVT) has many attractive features, such as helping to improve fuel economy, providing smooth acceleration, delivering engine power continuously and facilitating powerful driving performance.
Nissan realized the advantages of CVTs early on and has worked vigorously to improve their performance since implementing its first CVT on a production model in 1992. Nissan adopted a CVT on a 2.0-liter car for the first time in 1997 and was the world's first automaker to apply a CVT to a 3.5-liter front-wheel-drive car in 2003. Moreover, in conjunction with the development of new engines, Nissan has developed and applied new steel-belt CVTs to 2.0-liter and 1.5-liter class cars. Those units and the XTRONIC CVT for use on 3.5-liter cars give Nissan a full CVT lineup.

XTRONIC CVT delivers powerful acceleration and smooth driving performance

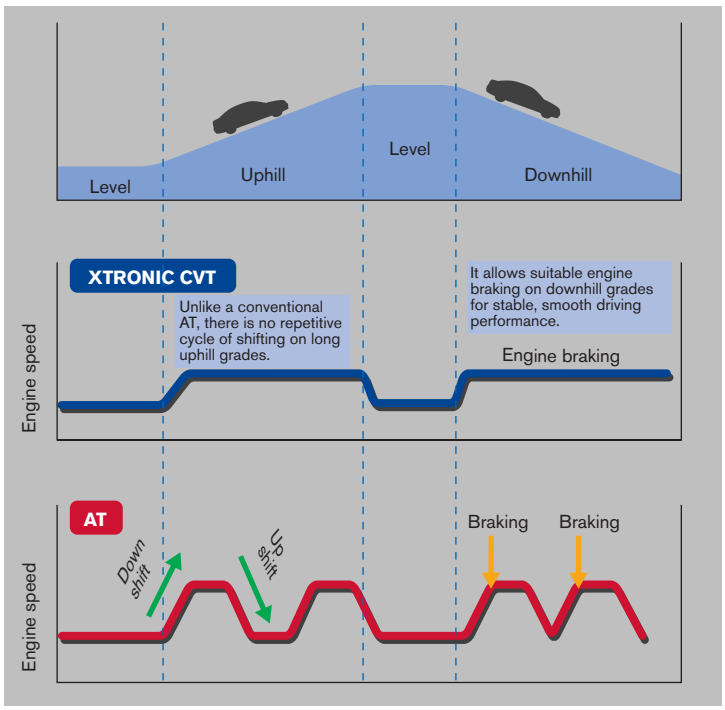
Powerful acceleration and improved fuel economy have been achieved by quickening shift response, widening the gear ratio range and expanding the region of lockup operation.

		For 3.5-liter cars		For 2.0-liter cars		For 1.5-liter cars
Examples of model applications		Teana & Murano		Lafesta		Tiida
Driving mode		D-range	Manual mode*	D-range	Manual mode*	D-range
Gear ratios	1st	2.371〜0.439	2.371	2.349〜0.394	2.339	2.561〜0.427
	2nd		1.53		1.357	
	3rd		1.11		1.1	
	4th		0.86		0.911	
	5th		0.69		0.713	
	6th		0.439		0.508	
	Rev.	1.766		1.750		2.689
Final gear ratio		5.173		5.407		5.473
Fuel consumption rate under Japan's 10/15 test mode (km/l)		10 (Teana), 9.3 (Murano)		15		18.2

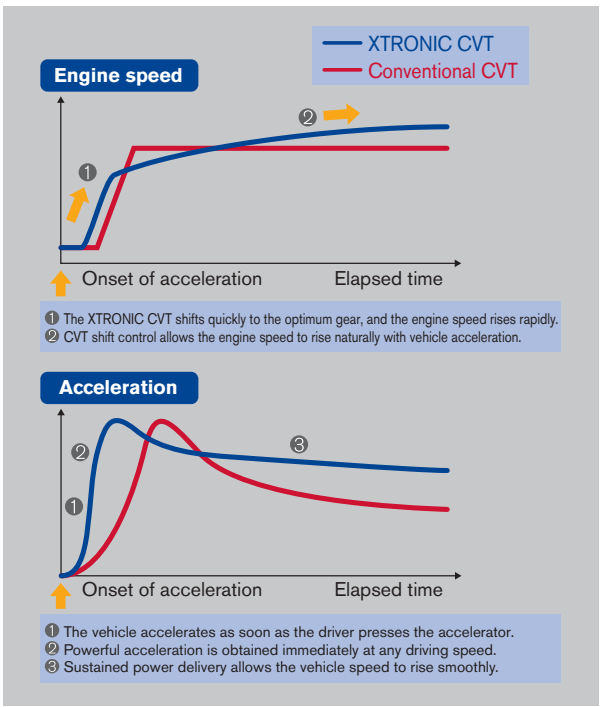
*Typical gear ratios in the manual shift mode

Delivering smooth, delightful performance in various driving situations

Compared with previous CVTs, the XTRONIC CVT improves vehicle response when climbing hills and coming out of turns. Moreover, its linear control provides driveability characterized by a feeling of acceleration that perfectly matches the driver's sensibility.



When there is a series of uphill and downhill grades, the repeated shifting and braking actions required in a conventional AT-equipped vehicle tend to be annoying. With the XTRONIC CVT, there is no repeated upshifting/downshifting on long uphill grades. Moreover, the XTRONIC CVT provides suitable engine braking on downhill grades for smooth, stable driving.



The vehicle accelerates as soon as the driver presses the accelerator, and the XTRONIC CVT shifts quickly to the optimum gear. The engine speed rises swiftly to provide powerful acceleration immediately at any vehicle speed. CVT shift control enables the engine speed to rise naturally with vehicle acceleration. As a result, sustained power delivery allows the vehicle speed to rise smoothly for a pleasing sensation of acceleration.

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