

Introducing the Jatco CVT-S (JF021E) for the Nissan ROOX, Mitsubishi Delica Mini and Mitsubishi eK Space

Jatco CVT-S was installed into ROOX, Delica Mini, and eK Space, which were released by Nissan and Mitsubishi Motors in October 2025.

Pump noise was reduced by optimizing the design of the oil pump. Weight reduction was achieved with fewer ribs in the transmission case and side covers added as noise countermeasure. Furthermore, the number of pinions on the carrier was reduced from four to three, which is considered difficult to achieve in continuously variable transmission (CVT) due to noise issues in the planetary gear. This successfully reduced the cost, which contributed to improved profitability. In terms of control, the gearshift program was optimized for the characteristics of the new engine specifications, thereby achieving smooth revving in response to the acceleration pedal, making acceleration feel more natural, which has received high praise from customers.

Moreover, five driving modes (POWER, ECO, NORMAL, GRAVEL, and SNOW) were introduced to Delica Mini, which has contributed to improved product appeal.

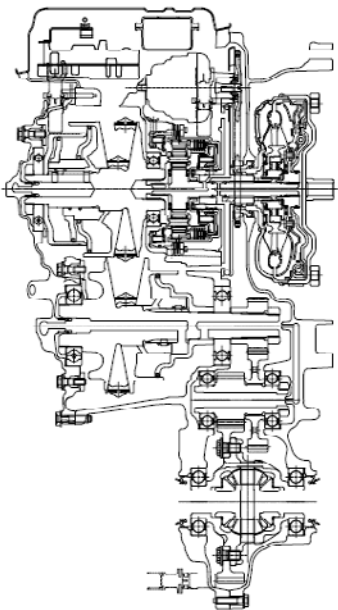


Fig. 1 Main cross-sectional view

Table 1 Specifications of JF021E

Torque capacity	100 Nm
Torque converter size	185 mm
Pulley ratios	2.411–0.404
Auxiliary transmission gear ratios	Fwd 1.000
	Rev 1.000
Ratio coverage	6.0
Final gear ratio	7.319
Selector position	P, R, N, D, L
Overall length	356 mm
Weight (wet)	60.6 kg



ROOX



Delica Mini



eK Space