

Introducing the Jatco CVT-XS (JF023E) for Nissan KICKS

The “KICKS,” launched in North America by Nissan Motor Co., Ltd. in August 2024, is equipped with the Jatco CVT-XS (JF023E). The JF023E, which has been installed in the “Sentra” since October 2023, features a completely redesigned hydraulic system coupled with twin oil pump system, and multi-plate lock-up system using a three-way linear solenoid. These advanced mechanisms enhance the sense of power and driving performance. The ratio coverage is enlarged by reducing minimal belt pitch diameter, which contributes to improve fuel efficiency. Additionally, the vertical arrangement of the control valve assembly enabled very compact packaging dimensions and enhances safety in crash situations. The refined performance of the KICKS, enabled by its integration with the JF023E, has earned high praise from customers.

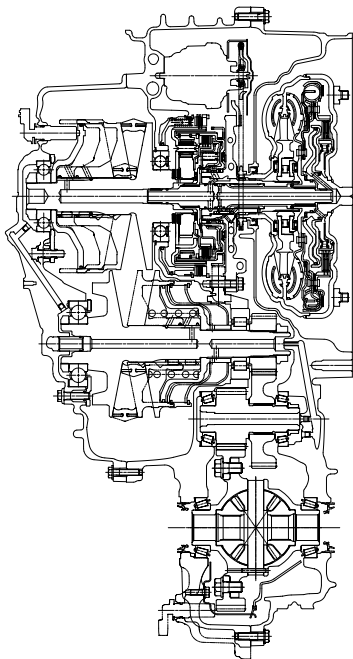


Fig. 1 Main cross-sectional view

Table 1 Specifications of JF023E

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|-----------------------|---------------|
| Torque capacity | 280 Nm |
| Torque converter size | 230 mm |
| Pulley ratios | 2.805 - 0.357 |
| Ratio coverage | 7.9 |
| Reverse gear ratio | 0.745 |
| Final gear ratio | 5.341 |
| Selector positions | P, R, N, D, B |
| Gear box length | 379.9 mm |
| Weight (wet) | 94.6 kg |

KICKS

