

Introducing the Jatco CVT7 (JF015E) for the Renault Samsung XM3

The Jatco CVT7 (JF015E) is equipped on the new-generation XM3 that Renault Samsung Motors Co., Ltd. released in South Korea in March 2020. Mated to Renault Samsung's third-generation 1.6L 4-cylinder engine, the JF015E is distinguished by low friction and wide ratio coverage achieved with its auxiliary transmission. In addition, a thorough review of the control system has contributed to outstanding fuel economy and driveability. A notable feature of the XM3 is the application of a new electrical/electronic (E/E) architecture shared by Renault and Nissan. The JF015E has been optimally tuned to match the crossover vehicle concept that reflects the needs of the South Korean market. As a result, the XM3 delivers both the dynamic performance of an SUV and the interior quietness of a sedan, making the vehicle highly popular with customers.

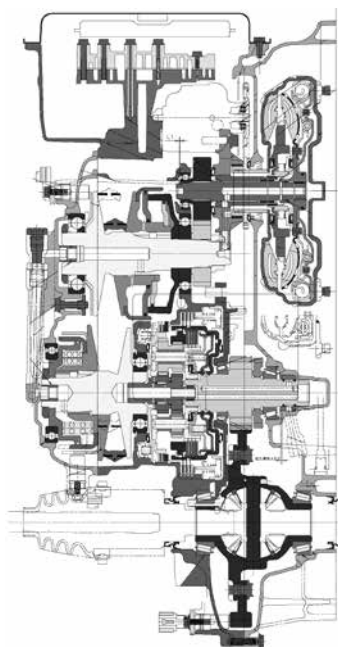


Fig. 1 Main cross-sectional view

Table 1 Specifications of JF015E

Torque capacity	150 Nm	
Torque converter size	205 mm	
Pulley ratios	2.2 - 0.55	
Auxiliary transmission gear ratios	1st	1.821
	2nd	1.000
	Rev.	1.714
Ratio coverage	7.3	
Final gear ratio	3.882	
Selector positions	P, R, N, D + Paddle shift mode	
Overall length	334 mm	
Weight (wet)	70.1 kg (2WD)	



Renault Samsung XM3