

TRANSMISSION TYPES

AND ACS PRODUCT AVAILABILITY



With vehicle manufacturers around the world looking to improve vehicle efficiency whilst improving the driving experience, there are now a large variety of different transmission types in the market. In recent years several new transmission & clutch technologies have been introduced which has led to some confusion amongst vehicle owners and part interpreters as to what type of transmission is in the vehicle.

The chart below outlines the common transmission types, their abbreviations and operational functions which will assist when ordering parts for these applications.

TRANSMISSION TYPE	INDUSTRY ABBREVIATION	TYPICAL NUMBER OF PEDALS	GEARSHIFT TYPE	ACTUATION	OVERVIEW	ACS PRODUCT AVAILABILITY			
						CLUTCH KITS	FLYWHEELS	ACTUATION	GEARBOX KITS & COMPONENTS
MANUAL	MT	3 Clutch / Brake / Accelerator	Full Manual	Mechanical / Hydraulic	<p>FULL MANUAL</p> <p>Manual Transmission (MT) (also known as a manual gearbox) is a multi-speed transmission where the driver manually selects the gears by operating a gear stick and clutch (which is usually a foot pedal for cars)</p>	YES	YES	YES	-
AUTOMATED MANUAL TRANSMISSION	AMT	2 Brake / Accelerator	Semi Automatic & Automatic	Electronic	<p>SEMI AUTOMATIC</p> <p>An AMT (Automated Manual Transmission) is essentially a manual transmission with a typical clutch and automated shifting mechanism. Semi-automatic versions control the clutch engagement automatically often using electromechanical, hydraulic, or pneumatic actuation and gives the driver the option to initiate a gear change or leave fully automatic.</p>	YES	YES	YES	-
DUAL CLUTCH TRANSMISSION	DCT	2 Brake / Accelerator	Semi Automatic & Automatic	Electronic	<p>AUTOMATIC</p> <p>A Dual-Clutch Transmission (DCT) is an increasingly popular type of transmission that uses two clutches within the same housing for odd and even gear sets. This offers very fast gear shift times and improved efficiency. Dual Clutch Transmissions can function automatically and do not require driver input to change gears. Dual Clutch Transmissions can have either a Wet or Dry clutch system.</p> <p>SEMI AUTOMATIC</p> <p>Some performance applications have the option to shift manually which is typically achieved via a paddle shift mechanism on the steering column.</p>	YES	YES	YES	YES
CONTINUOUSLY VARIABLE TRANSMISSION	CVT	2 Brake / Accelerator	Automated	Electronic	<p>CONTINUOUSLY VARIABLE TRANSMISSION</p> <p>A Continuously Variable Transmission (CVT) is a transmission that changes through variable gear ratios seamlessly, providing the perfect ratio for throttle response.</p> <p>The flexibility of a CVT allows the engine to operate at a consistent RPM while the vehicle moves at varying speeds.</p>	-	YES	-	-
AUTOMATIC TRANSMISSION	AT	2 Brake / Accelerator	Automated	Electronic	<p>AUTOMATIC</p> <p>An Automatic Transmission (AT), is a fully automated style of transmission that does not require input from the driver to shift gears. Automatic Transmissions utilise a fluid filled Torque Converter to transfer power from the engine to the transmission. Gear ratios are achieved by use of planetary gear sets and by multiplate clutch packs and brake bands. The automation is achieved by a control valvebody and / or solenoids.</p>	-	-	-	-