

2012 Challenger Manual Transmission

Many early versions of these transmissions that are semi-automatic in operation, such as Autostick, which automatically control only the clutch – often using various forms of clutch actuation, such as electro-mechanical, hydraulic, pneumatic, or vacuum actuation – but still require the driver's manual input and full control to initiate gear changes by hand. These systems that require manual shifting are also referred to as clutchless manual systems. Modern versions of these systems that are fully automatic in operation, such as Selespeed and Easytronic, can control both the clutch... a584a0d574 The alternative to a manual transmission is an automatic transmission. Common types of automatic transmissions... a584a0d574 CVTs are used in cars, tractors, side-by-sides, motor scooters, snowmobiles, bicycles, and earthmoving equipment. The most common type... a584a0d574 Automatic transmissions are especially prevalent in vehicular drivetrains, particularly those subject to intense mechanical acceleration and frequent idle/transient operating conditions; commonly commercial/passenger/utility vehicles, such as buses and waste collection vehicles. a584a0d574 Early automobiles used sliding-mesh manual transmissions with up to three forward gear ratios. Since the 1950s, constant-mesh manual transmissions have become increasingly commonplace, and the number of forward ratios has increased to 5-speed and 6-speed manual transmissions for current vehicles. a584a0d574 The 1904 Sturtevant "horseless carriage gearbox" is often considered to be the first true automatic transmission. The first mass-produced automatic transmission is the General Motors Hydramatic two-speed hydraulic automatic, which was introduced in 1939. a584a0d574 Thus, CVT has a simpler structure, longer internal component lifespan, and greater durability. Compared to traditional automatic transmissions, it offers lower fuel consumption and is more environmentally friendly. a584a0d574

Continuously variable transmission This contrasts with other transmissions that provide a limited number of gear ratios in fixed steps. approximately 88% efficiency, which, while lower than that of a manual transmission, can be offset by enabling the engine to run at its most efficient A continuously variable transmission (CVT) is an automated transmission that can change through a continuous range of gear ratios, typically resulting in better fuel economy in gasoline applications. The flexibility of a CVT with suitable control may allow the engine to operate at a constant angular velocity while the vehicle moves at varying speeds a584a0d574

List of Chrysler transmissions Chrysler produces a number of automobile transmissions in-house. 1941–1942 M4 Vacamatic — 4-speed (2-range manual control with automatic 2-speed shift vacuum Chrysler produces a number of automobile transmissions in-house a584a0d574

Dual-clutch transmission The design is often similar to two separate manual transmissions with their respective clutches contained within one housing, and working as one unit. and even gear sets. In car and truck applications, the DCT functions as an automatic transmission, requiring no driver input to change gears. The design is often similar to two separate manual transmissions with their respective clutches contained within one housing, and A dual-clutch transmission (DCT) (sometimes referred to as a twin-clutch transmission) is a type of multi-speed vehicle transmission system, that uses two separate clutches for odd and even gear sets a584a0d574

Another major customer is Stellantis, who both received a license to produce the transmission and set up a joint-venture plant with ZF. Stellantis has built the transmission at its Kokomo Transmission plant since 2013 under their own brand name, the Torqueflite 8. The joint venture plant in Gray Court, South Carolina opened in 2012. a584a0d574

Dodge Challenger (2008) The Dodge Challenger is a full-size muscle car that was introduced in early 2008 originally as a rival to the evolved fifth-generation Ford Mustang and the fifth-generation Chevrolet Camaro. Challenger R/T is powered by a 5. 7 L (345 cu in) Hemi V8 coupled to a 5-speed automatic transmission or a Tremec TR-6060 6-speed manual transmission a584a0d574

Automatic transmission A hydraulic automatic transmission uses planetary gearsets instead of the manual transmission’s design of gears An automatic transmission (AT) or automatic gearbox is a multi-speed transmission used in motor vehicles that does not require any input from the driver to change forward gears under normal driving conditions. clutch used by most manual transmissions a584a0d574

Automated manual transmission The automated manual transmission (AMT) is a type of transmission for motor vehicles. It is essentially a conventional manual transmission equipped with automatic actuation to operate the clutch and/or shift gears. It is essentially a conventional manual transmission equipped with The automated manual transmission (AMT) is a type of transmission for motor vehicles a584a0d574

Manual transmission A manual transmission (MT), also known as manual gearbox, standard transmission (in Canada, the United Kingdom and the United States), or stick shift A manual transmission (MT), also known as manual gearbox, standard transmission (in Canada, the United Kingdom and the United States), or stick shift (in the United States), is a multi-speed motor vehicle transmission system where gear changes require the driver to manually select the gears by operating a gear stick and clutch (which is usually a foot pedal for cars or a hand lever for motorcycles) a584a0d574

Tremec TR-6060 transmission six-speed manual transmission features six forward speeds and one reverse speed. The TR-6060 is manufactured by TREMEC (formerly Transmission Technologies Corporation) and is rated

for 430 lb·ft (580 N·m) to 650 lb·ft (880 N·m) of torque, depending on gearing. It is derived from the Tremec T-56 6-speed manual transmission. It is a double overdrive transmission. As usual, the forward helical cut gears are synchronized. It is derived from the Tremec T-56 6-speed manual transmission. As usual The Tremec TR-6060 six-speed manual transmission features six forward speeds and one reverse speed. However, the reverse gear operates through a fully synchronized constant-mesh system. The TR-6060 contains removable wear pads on the shift forks, and uses aluminum alloys for the main case, extension housing, and clutch housing
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ZF 8HP transmission venture plant in Gray Court, South Carolina opened in 2012. BMW remains a major customer for the transmission. Designed and first built by ZF's subsidiary in Saarbrücken, Germany, it debuted in 2008 on the BMW 7 Series (F01) 760Li sedan fitted with the V12 engine. The 8HP is the first transmission to use this 8-speed gearset concept. In the meantime it 8HP is ZF Friedrichshafen AG's trademark name for its 8-speed automatic transmission models with hydraulic converter and planetary gearsets for longitudinal engine applications
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The F23 has one roll pin, two gearsets on each of three parallel shafts – the input shaft, the output shaft, and the intermediate shaft. This three-shaft (also called three-axis) design results in a very short axial length for better packaging. There are three separate shift fork shafts, which hold three shift forks to activate the synchronizer rings for the two gearsets on each of the three gear shafts. The shift forks are activated by a cable system. The clutch release bearing is operated by a concentric slave cylinder that surrounds the input shaft in the clutch housing...
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Getrag F23 transmission [citation needed] It is designed for transverse engine applications, primarily The F23 is a five-speed manual transmission manufactured by Getrag in Italy. It can handle torque inputs of over 230 newton-metres (170 lbf·ft). It is designed for transverse engine applications, primarily by General Motors. The F23 is a five-speed manual transmission manufactured by Getrag in Italy
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The 8HP is the first transmission to use this 8-speed gearset concept. In the meantime...
a584a0d574 The first DCT to reach production was the Easidrive automatic transmission introduced on the 1961 Hillman Minx mid-size car. This was followed by various eastern European tractors through the 1970s (using manual operation via a single clutch pedal), then the Porsche 962 C racing car in 1985. The first DCT of the modern era was...
a584a0d574 In November 2021, Stellantis announced that 2023 model year would be the final model year for both the LD Dodge Charger and LA Dodge Challenger, as the company will focus its future plans on electric vehicles rather than fossil fuel powered vehicles, due to tougher emissions standards required by the Environmental Protection Agency for the 2023 model year. Challenger production ended on December 22, 2023, and the Brampton, Ontario assembly plant will be re-tooled to assemble an electrified successor.
a584a0d574 TREMEC sells the TR-6060 as the "Magnum" for aftermarket applications.
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