

# 1991 Bmw 320i Manual

List of ZF transmissions

*037, BMW M1, Michelotti Pura S5D 310Z – as fitted to the BMW E36 M3 3.0 S5D 320Z – as fitted to the BMW E36 328i S5-16*

1984-1991 BMW E30 318i, 320i S5-17 - ZF Friedrichshafen AG is a German technology manufacturing company that supplies systems, in particular transmissions for all kind of passenger cars and SUVs, light commercial vehicles such as vans and light trucks, as well as all types of heavy and special vehicles like trucks and buses.

The E36 was the first 3 Series to be offered in a hatchback body style. It was also the first 3 Series to be available with a six-speed manual transmission (in the 1996 M3), a five-speed automatic transmission, and a four-cylinder diesel engine. The multi-link rear suspension was also a significant upgrade as compared to the previous generations of the 3 Series. All-wheel drive was not available for the E36, unlike the previous (E30) and successive (E46) generations...

The E46 line-up was phased out starting from late 2004, following the introduction of the E90 3 Series sedans. However...

BMW 3 Series (E36)

*hatchback (see BMW 3 Series Compact), produced from 1994 to 2000. BMW 318i (E36 saloon, Australia) BMW 318iS (E36 coupe, Australia) BMW 320i (E36 convertible*

The third generation of the BMW 3 Series range of compact executive cars is designated under the model code E36, and was produced by the German automaker BMW from 1990 to 2000. The initial models were of the four-door saloon body style, followed by the coupé, convertible, wagon ("Touring"), and eventually hatchback ("Compact").

ZF 4HP transmission

*configuration BMW E30 1984–1988 316 M10/B18 1987–1988 316i M10/B18 1988–1994 316i M40/B16 1984–1987 318i M10/B18 1987–1994 318i M40/B18 1982–1993 320i*

## M20/B20

The 4HP is a 4-speed Automatic transmission family with a hydrodynamic Torque converter with an electronic hydraulic control for passenger cars from ZF Friedrichshafen AG. In selector level position "P", the output is locked mechanically. The Simpson planetary gearset types were first introduced in 1980, the Ravigneaux planetary gearset types in 1984 and produced through 2003 in different versions and were used in a large number of vehicles.

Basically there are two types of motor vehicle transmissions:

Manual – the driver has to perform each gear change using a manually operated clutch

## BMW M3

*coincided with BMW's withdrawal from the Deutsche Tourenwagen Meisterschaft (DTM), resulting in BMW focussing instead on the 318i and 320i models in the*

The BMW M3 is a high-performance version of the BMW 3 Series, developed by BMW's in-house motorsport division, BMW M GmbH. M3 models have been produced for every generation of 3 Series since the E30 M3 was introduced in 1986.

The first generation of the 3 Series was only available as a 2-door saloon; the model range expanded to include a 4-door saloon, 2-door convertible, 2-door coupé, 5-door estate, 5-door liftback ("Gran Turismo"; discontinued in 2019) and 3-door hatchback body styles. Since 2013, the coupé and convertible models have been marketed as the 4 Series; these styles no longer being included in the 3 Series.

## BMW 3 Series (E30)

*2013-06-16. "Specifications for BMW 320i E30 Sedan (1985-1991)". [www.bmwheaven.com](http://www.bmwheaven.com). Retrieved 22 December 2017. "Specifications for BMW 325i E30 LCI Touring (1987-1992)"*

The BMW E30 is the second generation of BMW 3 Series, which was produced from 1982 to 1994 and replaced the E21 3 Series. The model range included 2-door saloon (sometimes referred to as a coupé) and convertible body styles, as well as being the first 3 Series to be produced in 4-door saloon and wagon/estate body styles. It was powered by four-cylinder petrol, six-cylinder petrol and six-cylinder diesel engines, the latter a first for the 3 Series. The E30 325iX model was the first BMW to have all-wheel

drive.

The first BMW M3 model was built on the E30 platform and was powered by the high-revving BMW S14 four-cylinder petrol engine. The BMW Z1 roadster was also based on the E30 platform. Following the launch of the E36 3 Series in 1990, the E30 began to be phased out.

ZF Friedrichshafen

*in the 1980s. 1991: The 5HP18 was the first 5-speed automatic transmission for passenger cars. Introduced in 1991 on the BMW E36 320i/325i and E34 5*

ZF Friedrichshafen AG, also known as ZF Group, originally Zahnradfabrik Friedrichshafen (lit. 'Cogwheel Factory of Friedrichshafen'), and commonly abbreviated to ZF, is a German technology manufacturing company that supplies systems for passenger cars, commercial vehicles and industrial technology. It is headquartered in Friedrichshafen, in the south-west German state of Baden-Württemberg. Specializing in engineering, it is primarily known for its design, research and development, and manufacturing activities in the automotive industry and is one of the largest automotive suppliers in the world. Its products include driveline and chassis technology for cars and commercial vehicles, along with specialized plant equipment such as construction equipment. It is also involved in the rail, marine...

The initial model was available in a coupé body style, with a convertible body style made available soon after. M3 saloons were offered initially during the E36 (1994–1999) and E90 (2008–2012) generations. Since 2014, the coupé and convertible models have been rebranded as the 4 Series range, making the high-performance variant the M4. Variants of the 3 Series since then have seen the M3 produced as a saloon, until 2020, when the M3 was produced as an estate (Touring) for the first time, alongside the saloon variant.

In the longitudinal direction, the gearbox is usually designed separately from the final drive (including the differential). The transaxle configuration combines...

The 3 Series is BMW's best-selling model line, accounting for around 30% of the BMW brand's annual total car sales, and has won numerous awards throughout its history. The M version of the 3 series, M3, debuted...

Automatic – once placed in drive (or any other 'automatic' selector position), it automatically selects the gear ratio dependent on engine speed and load

## BMW 3 Series (E46)

*"2001 BMW 316i". automobile-catalog.com. Retrieved 22 March 2015.*

*"1998 BMW 318i". automobile-catalog.com. Retrieved 22 March 2015.*

*"1998 BMW 320i". automobile-catalog*

The BMW 3 Series (E46) is the fourth generation of the BMW 3 Series range of compact executive cars manufactured by German automaker BMW. Produced from 1997 to 2006, it was the successor to the E36 3 Series, which ceased production in 2000. It was introduced in November 1997, and available in sedan, coupé, convertible, station wagon and hatchback body styles. The latter has been marketed as the 3 Series Compact.

### Alpina

*sells high-performance versions of BMW cars. Alpina works closely with BMW and their processes are integrated into BMW's production lines, and is recognized*

Alpina Burkard Bovensiepen GmbH & Co. KG is an automobile manufacturing company based in Buchloe, in the Ostallgäu district of Bavaria, Germany that develops and sells high-performance versions of BMW cars. Alpina works closely with BMW and their processes are integrated into BMW's production lines, and is recognized by the German Ministry of Transport as an automobile manufacturer, in contrast to other performance specialists, which are aftermarket tuners. The Alpina B7 is produced at the same assembly line in Dingolfing, Germany (BMW Plant Dingolfing), as BMW's own 7 Series. The B7's twin-turbo 4.4-litre V8 is assembled by hand at Alpina's facility in Buchloe, Germany, before being shipped to BMW for installation, and the assembled vehicle is then sent back to Alpina for finishing touches...

Basically there are two types of engine installation:

Initial models were produced with carburetted four-cylinder petrol engines of 1.6 L, 1.8 L, and 2.0 L. Fuel-injection was introduced in late 1975 on the 320i – but in 1977, a carburetted inline 6-cylinder engine replaced both the 320 and 320i models, while a detuned version of the four-cylinder injection...

The M3 performance model was introduced in June 2000 with a 2-door coupé body style, followed by the convertible counterpart in April 2001. The M3 is powered by the BMW S54 straight-six engine with either a 6-speed manual or a 6-speed SMG-II automated manual transmission.

## BMW 3 Series (E21)

*BMW E21 3 Series 320is (US) Specs*“; . *ultimatespecs.com*. “The U.S. E21 320i & 320iS”“; . *bmwe21.net*. Koch, Jeff (24 September 2018). “1977–1983 BMW 320i”“;

The BMW E21 is the first generation of the BMW 3 Series, a range of compact executive cars. The E21 was produced from June 1975 to December 1983 and replaced the BMW 02 Series. The series was exclusively built in a sporty two-door sedan / coupé body-style (except for convertibles made by Baur). Contrary to its predecessor, a 'Touring' body with a sloped rear hatch was no longer offered. Six-cylinder models were made immediately recognizable by quad round headlights, instead of the basic two.

## BMW 3 Series

*The BMW 3 series is a line of compact executive cars manufactured by the German automaker BMW since May 1975. It is the successor to the 02 series and*

The BMW 3 series is a line of compact executive cars manufactured by the German automaker BMW since May 1975. It is the successor to the 02 series and has been produced in seven generations.

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