

# Mazda 5 2005 Car Service Repair Manual

Mazda F engine

*1999-2004 Mazda Premacy The Mazda B1800 Pickup (brochure), Tunbridge Wells, Kent, UK: Mazda Car Imports (GB), May 1981, B1800/81/5 FE Service Manual. Section*

The F engine family from Mazda is a mid-sized inline-four piston engine with iron block, alloy head and belt-driven SOHC and DOHC configurations. Introduced in 1983 as the 1.6-litre F6, this engine was found in the Mazda B-Series truck and Mazda G platform models such as Mazda 626/Capella as well as many other models internationally including Mazda Bongo and Ford Freda clone, Mazda B-series based Ford Courier, Mazda 929 HC and the GD platform-based Ford Probe

There were four basic head types within the F range, the diesel SOHC 8-valve (R-series), the petrol SOHC 8-valve, petrol SOHC 12-valve, and the petrol DOHC 16-valve. These heads came attached to multiple variations of the different blocks and strokes. Only the petrol 8-valve and 12-valve shared the same gasket pattern. It was built at...

Convertible

*(1995 Only), and Mazda MX-5. During the 1950s and 1960s, detachable hard-material roofs were offered for various convertible sports cars and roadsters,*

A convertible or cabriolet ( ) is a passenger car that can be driven with or without a roof in place. The methods of retracting and storing the roof vary across eras and manufacturers.

A convertible car's design allows an open-air driving experience, with the ability to provide a roof when required. A potential drawback of convertibles is their reduced structural rigidity (requiring significant engineering and modification to counteract the side effects of almost completely removing a car's roof).

The majority of convertible roofs are of a folding construction framework with

the actual top made from cloth or other fabric. Other types of convertible roofs include retractable hardtops (often constructed from metal or plastic) and detachable hardtops (where a metal or plastic roof is manually removed...

#### Automatic transmission fluid

*Asian vehicles, some Asian power steering fluid applications, some Ford/Mazda manual transmissions. It is generally less expensive than DEXRON VI/MERCON V*

Automatic transmission fluid (ATF) is a hydraulic fluid that is essential for the proper functioning of vehicles equipped with automatic transmissions. Usually, it is coloured red or green to differentiate it from motor oil and other fluids in the vehicle.

This fluid is designed to meet the unique demands of an automatic transmission. It is formulated to ensure smooth valve operation, minimize brake band friction, facilitate torque converter function, and provide effective gear lubrication.

ATF is commonly utilized as a hydraulic fluid in certain power steering systems, as a lubricant in select 4WD transfer cases, and in modern manual transmissions.

#### Car

*Toyota, Nissan, Suzuki, Mazda, and Honda began as companies producing non-automotive products before the war, switching to car production during the 1950s*

A car, or an automobile, is a motor vehicle with wheels. Most definitions of cars state that they run primarily on roads, seat one to eight people, have four wheels, and mainly transport people rather than cargo. There are around one billion cars in use worldwide.

The French inventor Nicolas-Joseph Cugnot built the first steam-powered road vehicle in 1769, while the Swiss inventor François Isaac de Rivaz designed and constructed the first internal combustion-powered automobile in 1808. The modern car—a practical, marketable automobile for everyday use—was invented in 1886, when the German inventor Carl Benz patented his Benz Patent-Motorwagen. Commercial cars became widely available during the 20th century. The 1901 Oldsmobile Curved Dash and the 1908 Ford Model T, both American cars, are widely...

## Ford Fusion (Americas)

*(119 kW) Mazda-designed 2.3 L Duratec 23 I4, paired with either a 5-speed manual or 5-speed automatic transmission, both also designed by Mazda. SE and*

The Ford Fusion is a mid-size car that was manufactured and marketed by the Ford Motor Company. From the 2006 through 2020 model years, two generations of the Fusion have been produced in gasoline, gas/electric hybrid, and gas/plug-in electric hybrid variants. The Fusion was manufactured at Ford's Hermosillo Stamping and Assembly plant in Sonora, Mexico, alongside the Lincoln MKZ, and formerly the Mercury Milan, both of which share its CD3 platform.

Production on the first Fusions began on August 1, 2005. The Fusion replaced the Mondeo for the Latin American markets, except in Argentina (where the current European Mondeo is available); in the United States and Canada it superseded the then mid-size Taurus and the compact Contour. The Fusion is positioned between the compact Ford Focus and the...

## Automotive industry

*carriage. Early car manufacturing involved manual assembly by a human worker. The process evolved from engineers working on a stationary car to a conveyor*

The automotive industry comprises a wide range of companies and organizations involved in the design, development, manufacturing, marketing, selling, repairing, and modification of motor vehicles. It is one of the world's largest industries by revenue (from 16% such as in France up to 40% in countries such as Slovakia).

The word automotive comes from the Greek autos (self), and Latin motivus (of motion), referring to any form of self-powered vehicle. This term, as proposed by Elmer Sperry (1860–1930), first came into use to describe automobiles in 1898.

## Holden

*powertrains, HJ, and later, HX series Premiers as the Mazda Roadpacer AP. Mazda then fitted these cars with the 13B rotary engine and three-speed automatic*

Holden, formerly known as General Motors-Holden, was an Australian subsidiary company of General Motors. Founded in Adelaide, it was an automobile manufacturer, importer, and exporter that sold cars under its own marque in Australia. It was headquartered in Port Melbourne, with major industrial operations in the states of South Australia and Victoria. The 164-year-old company ceased trading at the end of 2020, having switched to solely importing vehicles in its final three years.

Holden's primary products were its own models developed in-house, such as the Holden Commodore, Holden Caprice, and the Holden Ute. However, Holden had also offered badge-engineered models under sharing arrangements with Nissan, Suzuki, Toyota, Isuzu, and then GM subsidiaries Opel, Vauxhall and Chevrolet. The vehicle...

### Suzuki Vitara

*2000–2005 Suzuki Grand Vitara 2-door soft top convertible (UK) 2000–2005 Suzuki Escudo 5-door (Japan) Suzuki Grand Vitara 5-door 1997–2000 Mazda Proceed*

The Suzuki Vitara is a series of SUVs produced by Suzuki in five generations since 1988. The second and third generation were known as the Suzuki Grand Vitara, while the fourth generation eschewed the "Grand" prefix. In Japan and a number of other markets, all generations have used the name Suzuki Escudo (Japanese: スズキエスクード, Hepburn: Suzuki Esukūdo).

The choice of the name "Vitara" was inspired by the Latin word *vita*, as in the English word *vitality*. "Escudo", the name primarily used in the Japanese market, refers to the "escudo", the monetary unit of Portugal before adoption of the Euro. The original series was designed to fill the slot above the Suzuki Jimny. The first generation was known as Suzuki Sidekick in the United States. The North American version was produced as a joint venture...

### Ford Explorer

*Postal Service in 2000 and 2001. A Mazda-produced 5-speed manual was standard with the 4.0 L OHV V6 engine; the SOHC V6 was not offered with a manual transmission*

The Ford Explorer is a range of SUVs manufactured by the Ford Motor Company since the 1991 model year. The first five-door SUV produced by Ford, the Explorer, was introduced as a replacement for the three-door Bronco II. As with

the Ford Ranger, the model line derives its name from a trim package previously offered on Ford F-Series pickup trucks. As of 2020, the Explorer became the best-selling SUV in the American market.

Currently in its sixth generation, the Explorer has featured a five-door wagon body style since its 1991 introduction. During the first two generations, the model line included a three-door wagon (directly replacing the Bronco II). The Ford Explorer Sport Trac is a crew-cab mid-size pickup derived from the second-generation Explorer. The fifth and sixth generations of the...

### Mitsubishi Delica

*Japan, the Delica Cargo and Delica D:3 nameplates were used on rebadged Mazda Bongo Brawny (between 1999 and 2010) and Nissan NV200 (between 2011 and*

The Mitsubishi Delica (Japanese: ミツビシデリカ, Hepburn: Mitsubishi Derika) is a range of vans and pickup trucks designed and built by the Japanese automaker Mitsubishi Motors since 1968. It was originally based on a cabover van and pickup truck introduced the previous year, also called the Delica, its name a contraction of the English language phrase Delivery car. This pickup truck, and a commercial van derived from it has received many names in export markets, being sold as the L300 (later L400) in Europe, Jamaica (discontinued after the third generation) and New Zealand, Express and Starwagon in Australia, and plain Mitsubishi Van and Wagon in the United States. The passenger car versions were known as Delica Star Wagon from 1979 until the 1994 introduction of the Delica Space Gear, which became...

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