

# 2003 Oldsmobile Alero Manual

This was the last Chevrolet that was exported to Japan in knock-down kits and assembled at the company's factory in Osaka, Japan before the factory was appropriated...

The platform began development intended to be the next generation GTO, but the muscle car era was drawing to a close. Pontiac decided to make this model America's answer to European luxury sports sedans. The Grand Am name was derived from two other Pontiacs; "Grand" signifying Grand Prix luxury, and "Am" for Trans Am performance.

Oldsmobile

*(1998–2002) Oldsmobile Alero (1999–2004) Oldsmobile Starfire (1953) Oldsmobile Cutlass (1954) Oldsmobile F-88 (1954) Oldsmobile 88 Delta (1955) Oldsmobile Golden*

Oldsmobile (formally the Oldsmobile Division of General Motors) was a brand of American automobiles, produced for most of its existence by General Motors. Originally established as "Olds Motor Vehicle Company" by Ransom E. Olds in 1897, it produced over 35 million vehicles, including at least 14 million built at its Lansing, Michigan, factory alone.

General Motors N platform

*following vehicles: 1999–2004 Oldsmobile Alero 1999–2005 Pontiac Grand Am 1997–1999 Oldsmobile Cutlass 1997–2003 Chevrolet Malibu 2004–2005 Chevrolet Classic*

The General Motors N platform (commonly called the N-body or N car) was a front-wheel drive compact automotive platform produced from 1984 to 2005. The GM N platform was based on the GM J-Body and replaced the GM X platform.

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...

Oldsmobile's sales peaked at over one million annually from 1983 to 1986, but by the 1990s the division faced growing competition from premium import brands, and sales steadily declined. When it shut...

### Pontiac Grand Am

*basic design of the fifth-generation Grand Am was shared with the Oldsmobile Alero (also new for 1999) and Chevrolet Malibu (introduced in 1996). The*

The Pontiac Grand Am is a car model that Pontiac Division of General Motors produced in various years between 1973 and 2005. The first and second generations were RWD mid-size cars built on the LeMans GM A platform. The Grand Am name was reused for a FWD compact car for the third- and fourth-generations. The fifth-generation versions was enlarged to a mid-size car.

### Chevrolet Master

*repurposed from a previous owner where Knock-down kits for Chevrolet, Pontiac, Oldsmobile, Buick and Cadillac passenger cars, and both Chevrolet and G. M. C. truck*

The Chevrolet Master and Master Deluxe are American passenger vehicles manufactured by Chevrolet between 1933 and 1942 to replace the 1933 Master Eagle. It was the most expensive model in the Chevrolet range at this time, with the Standard Mercury providing an affordable product between 1933 and 1937. Starting with this generation, all GM cars shared a corporate appearance as a result of the Art and Color Section headed by Harley Earl. From 1940 a more

expensive version based on the Master Deluxe was launched called the Special Deluxe. The updated corporate appearance introduced a concealed radiator behind a façade with a grille.

This engine is not related to the GMC V6 engine that was designed for commercial vehicle...

### Oldsmobile Alero

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The Oldsmobile Alero is a compact car that was produced by General Motors for its Oldsmobile division. Introduced in 1998 as a 1999 model, the Alero was the replacement for both the Achieva and Cutlass. The Alero was Oldsmobile's last new model nameplate, and — on April 29, 2004 — was also the last Oldsmobile manufactured.

The Oldsmobile Intrigue was introduced on May 5, 1997 as a 1998 model, and replaced the aging Oldsmobile Cutlass Supreme. It rode on the second-generation of the W-body, which it shared with the Buick Regal. The Oldsmobile Intrigue was supposed to compete with upscale Japanese and European imports such as Acura and BMW. The Oldsmobile Intrigue was heavily inspired...

### Oldsmobile Intrigue

*The Oldsmobile Intrigue is a mid-size sedan that was manufactured from 1997 through 2002 by Oldsmobile. The Intrigue's design cues were first seen in 1995*

The Oldsmobile Intrigue is a mid-size sedan that was manufactured from 1997 through 2002 by Oldsmobile. The Intrigue's design cues were first seen in 1995 with the Oldsmobile Antares concept car, being unveiled in production form in January 1996 at the North American International Auto Show. The Intrigue was the first casualty in the three-year phase-out process of Oldsmobile; Olds' remaining

models would last an additional year or two.

#### Getrag F23 transmission

*2000-02 Chevrolet Cavalier 2001-02 Oldsmobile Alero 2000-02 Pontiac Sunfire  
2001-02 Pontiac Grand Am with Manual Transmission (RPO M86 or M94) There*

The F23 is a five-speed manual transmission manufactured by Getrag in Italy. It is designed for transverse engine applications, primarily by General Motors. It can handle torque inputs of over 230 newton-metres (170 lbf·ft).

During its time as a division of General Motors, Oldsmobile slotted into the middle of GM's five passenger car divisions (above Chevrolet and Pontiac, but below Buick and Cadillac). It was also noted for several groundbreaking technologies and designs.

The first generation Grand Am featured innovations that included a deformable urethane nose (an evolution...

#### General Motors 60° V6 engine

*Chevrolet Lumina Minivan 1997-2005 Chevrolet Venture 1999-2004 Oldsmobile  
Alero 1996-2004 Oldsmobile Silhouette 2001-2005 Pontiac Aztek 1999-2005  
Pontiac Grand*

The General Motors 60° V6 engine family is a series of 60° V6 engines produced for both longitudinal and transverse applications. All of these engines are 12-valve cam-in-block or overhead valve engines, except for the LQ1 which uses 24 valves driven by dual overhead cams. These engines vary in displacement between 2.8 and 3.4 litres (2,837 and 3,350 cc) and have a cast-iron block and either cast-iron or aluminum heads. Production of these engines began in 1980 and ended in 2005 in the U.S., with production continued in China until 2010. This engine family was the basis for the GM High Value engine family. These engines have also been referred to as the X engines as they were first used in the X-body cars.

The V200 is a successor to the Daewoo Leganza (model V100), used a larger chassis of its platform. Launched in 23 November, it was sold alongside the Leganza in Korea until the end of V100's production in 2002, when it also superseded it in export markets. The V200 itself was given an extensive facelift for 2006, which resulted in the model known as V250, or Daewoo Tosca in Korea. The V250 completely superseded all versions of...

### Daewoo Magnus

*and LT. It replaced the Oldsmobile Alero since the marque's phaseout in 2004, as most Chevrolet dealerships sold Oldsmobiles. For model year 2005, both*

The Daewoo Magnus is a mid-sized sedan developed and manufactured by Daewoo for model years 2000–2006 under a single generation, and marketed globally by GM Daewoo and other General Motors divisions, as well as GMDAT stake holder Suzuki. Developed under its internal Daewoo designation V200, the Magnus was marketed prominently in the United States as the Suzuki Verona.

### Quad 4 engine

*1996–1998 Oldsmobile Achieva 1999–2001 Oldsmobile Alero 1997–2000 Chevrolet Malibu 1996–1998 Buick Skylark At the same time that Oldsmobile announced*

The Quad 4 is a family of straight-four engines produced by General Motors' Oldsmobile division. Several double overhead camshaft (DOHC) versions were produced between 1987 and 2002, and one single overhead camshaft (SOHC) model was built from 1992 to 1994.

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