

General Motors



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About this manual
Its purpose lines. Each Section consists of consecutively numbered paragraphs.
The purpose of this manual is to help you get the best

value from At the beginning of each numbered Section you will be referred to your vehicle. It can do so in several ways. It can help you decide what any illustrations which apply to the procedures in that Section. The reference work must be done even if you choose to have it done by a service center. Reference numbers used in illustration captions pinpoint the pertinent service department or a repair shop; it provides information and procedure Section and the Step within that Section. That is, illustration 3.2 means procedures for routine maintenance and servicing; and it offers diagnostic the illustration refers to Section 3 and Step (or paragraph) 2 within that and repair procedures to follow when trouble occurs. Section. We hope you use the manual to tackle the work yourself. For Procedures once described in the text are not normally repeated. When it is necessary to refer to another Chapter the reference appointment to get the vehicle into a shop and making the trips to will be given as Chapter and Section number. Cross references given leave it and pick it up. More importantly, a lot of money can be saved without use of the word "Chapter" apply to Sections and/or paragraphs in the same Chapter. For example, "see Section 8" means in body and overhead costs. An added benefit is the sense of satisfaction the same Chapter and accomplishment that you feel after doing the job yourself. References to the left or right side of the vehicle assume you are using the manual sitting in the driver's seat facing forward. Even though we have prepared this manual with extreme care, the manual is divided into Chapters. Each Chapter is divided into neither the publisher nor the author can accept responsibility for any numbered Sections which are headed in bold type between horizontal errors or omissions from the information given. NOTE A Note provides information necessary to properly complete a procedure or information which will make the procedure easier to understand. CAUTION A Caution provides a special procedure or special steps which must be taken while completing the procedure where the Caution is found. Not heeding a Caution can result in damage to the assembly being worked on. WARNING A Warning provides a special procedure or special steps which must be taken while completing the procedure where the Warning is found. Not heeding a Warning can result in personal injury.

Introduction to the General Motors A-cars Since its introduction in 1982 the popular GM A-body design has Most models use a Throttle Body Injection (TBI) or multi-port fuel system gone through many changes. Although the basic chassis design has injection system although some 1985 and earlier V6 models are car-changed little engines fuel system and ignition system have been changed. The engine drives the front wheels through either a manual or automatic transmission. Most four-cylinder models are equipped with the 2.5 liter overdrive automatic transaxle via unequal length drive axles. The power assisted overhead Valve (OHV) four-cylinder engine sometimes referred to as the rack and pinion steering gear assembly is mounted behind the engine. "Iron Duke" because of its all-cast-iron construction. In 1993 this engine The front suspension is composed of MacPherson struts three* engine was replaced by a 2.2L OHV four-cylinder engine with a cast-iron point control arms and a stabilizer bar. The rear suspension consists of a block and aluminum cylinder head. a solid axis with integral trailing arms coil springs and shock absorbers. Two different OHV V6 engine designs have been used in these models. The narrower 2.0 liter and 3.1 liter V6 engines are from the The brakes are disc at the front and drum at the rear on most same general engine family they have a 6-degree angle between models (some models have rear disc brakes) with power assist start-cylinder banks. The engine The second V6 engine family (3.0 liter 3.3 liter and 3.8 liter) are wider because of the 9-degree angle between cylinder banks. (ABS).

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