

# CHEVROLET ASTRO & GMC SAFARI MINI-VANS

1985 thru 1993

24010 Haynes



## Automotive Repair Manual



EVROPEAN MANUAL BASED ON A  
COMPLETE TRANSMISSION  
AND VEHICLE



# Haynes Manual Astro Van

**Don Pfeil, John Harold Haynes**



## **Haynes Manual Astro Van:**

*Chevrolet Astro and Gmc Safari Mini-Vans Automotive Repair Manual* Ken Freund, John Harold Haynes, 2003 Every Haynes manual is based on a complete teardown and rebuild contains hundreds of hands on photos tied to step by step instructions and is thorough enough to help anyone from a do it yourselfer to a professional Pub Date May 2003 Paperback 8 3 8 x 10 5 8 320 pp 850 b w 50 ill Chevrolet Astro and GMC Safari Mini-vans Automotive Repair Manual 1985 Thru 2003 Ken Freund, J. H. Haynes, 2005 This repair service manual covers Chevrolet Astro and GMC Safari mini vans from 1985 thru 2003 Note This manual does not include All Wheel Drive information *Chevrolet Astro & GMC Safari* Ken Freund, Max Haynes, 2007-12-01 With a Haynes manual you can do it yourself from simple maintenance to basic repairs Haynes writes every book based on a complete teardown of the vehicle We learn the best ways to do a job and that makes it quicker easier and cheaper for you Our books have clear instructions and plenty of photographs that show each step Whether you re a beginner or a pro you can save big with Haynes Step by step procedures Easy to follow photos Complete troubleshooting section Valuable short cuts Color spark plug diagnosis Complete coverage for your Chevrolet Astro GMC Safari see years covered Routine maintenance Tune up procedures Engine repair Cooling and heating Air conditioning Fuel and exhaust Emissions control Ignition Brakes Suspension and steering Electrical systems Wiring diagrams Haynes Chevrolet Astro and Gmc Safari Mini-Van Owners Workshop Manual 1985 Thru 1988 John Harold Haynes, Ken Freund, 1988 **Chevrolet Astro and Gmc Safari Mini-Vans Automotive Repair Manual** Ken Freund, John Harold Haynes, 1993 Astro GMC Safari Mini Vans 1985 93 Shop Manual Haynes 325 pgs 780 ill **Haynes Chev GMC Full Size Van 68-92** Don Pfeil, John Harold Haynes, 1992 Does not include diesel engine information Page 4 of cover **American Book Publishing Record**, 1992 Forthcoming Books Rose Army, 1992 **Books in Print**, 1993-09 V 1 Authors A D v 2 Authors E K v 3 Authors L R v 4 S Z v 5 Titles A D v 6 Titles E K v 7 Titles L Q v 8 Titles R Z v 9 Out of print out of stock indefinitely v 10 Publishers **Haynes Ford Focus 2000 and 2001** Jay Storer, John Harold Haynes, 2002 Inside this manual the reader will learn to do routine maintenance tune up procedures engine repair along with aspects of your car such as cooling and heating air conditioning fuel and exhaust emissions control ignition brakes suspension and steering electrical systems wiring diagrams **Cars & Parts**, 1993 **Subject Guide to Books in Print**, 1997 Mazda 626 and MX-6 Automotive Repair Manual Larry Warren, John Harold Haynes, 1997-12 Mazda 626 FWD 1983 91 Shop Manual Haynes 253 pgs 607 ill **Ford Aerostar Mini-van** Larry Warren, John Harold Haynes, 1991 **Automotive Body Repair & Painting Manual** John Haynes, 1989-10-15 This is a complete do it yourself guide What you can learn Full color sections on minor repairs and painting Damage repair Painting Rust Repair Additional detailed information includes Rustproofing and undercoating Tools and equipment Repair of minor dents and rust damage Metal working techniques Major rust repair Body component replacement Sanding and painting Car care and detailing Welding Table of Contents Chapter 1 Introduction Chapter 2

Maintaining and preserving the paint body and interior Chapter 3 Damage repair Doing it yourself or having it done Chapter 4 Tools and working facilities Chapter 5 Minor body repairs Chapter 6 Major body repair Chapter 7 Body component replacement Chapter 8 Preparation for painting Chapter 9 Painting Chapter 10 Doors and glass Chapter 11 Trim and accessories Chapter 12 Welding     Jeep Grand Cherokee Automotive Repair Manual Larry Warren, John Harold Haynes, 2000 Models covered all Jeep Grand Cherokee models 1993 through 2000     *Scientific and Technical Books and Serials in Print*, 1989     *jeep cherokee and comanche automotive repair manual*, 2000     **Gale's Auto Sourcebook**, 1992 Guide to information on cars and light trucks     **The Cumulative Book Index**, 1995 A world list of books in the English language

## Whispering the Techniques of Language: An Mental Quest through **Haynes Manual Astro Van**

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web if the installation marks have disappeared put a new installation mark on the timing belt before removing each part em  
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web dec 9 2020 put the wrench on the crank bolt and turn it clockwise until the mark on the harmonic balancer crank pulley lines up with the tdc mark on the lower timing cover now look at the cam sprocket the dowel in the cam should be in the hole for number 1 on some older b2000 engines they might have an a b c all alignment should be on a

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web mar 11 2020 there are no one size fits all timing solutions but a generally stock headed fe will like around 38 degrees total timing you generally don t have to worry too much about initial timing over 12 degrees but again you have to be careful with the vacuum advance to not get back into that over advance situation

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web align the timing marks of the camshaft with the mark plates of the timing chain and install the timing chain hint align

the timing marks with the mark plates while turning the hexagonal service portion of the camshaft using a wrench 2 install chain tensioner slipper a install the chain tensioner slipper 3 install chain tensioner

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web rotate the crankshaft pulley two complete turns clockwise and check the timing marks if the timing marks are correct tighten the lock bolt for the tensioner to 20 to 34 n m 200 to 350 kgfcm for fe to 37 to 52 n m 380 to 530 kgfcm for f2 engine check the movement on the tension side of the timing belt

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web fe engines use a timing assembly very similar to other ford engines with the aforementioned cam thrust plate an offset positioned dowel pin for locating and a single central cam bolt for retention the factory cam sprockets were often aluminum with molded nylon teeth for quieter operation

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