



Fig. 186: Front Oil Seal

Courtesy of GENERAL MOTORS COMPANY

17. Install the front engine cover. Refer to [Engine, Front Cover Replacement](#).
18. Install the transfer case. Refer to [Transfer Case Replacement](#).
19. Install the drivetrain and front suspension frame front crossmember. Refer to [Drivetrain and Front Suspension Frame Replacement](#).
20. Remove the engine support fixture. Refer to [Engine Support Fixture](#).
21. Refill the engine oil and install a NEW oil filter. Refer to [Engine Oil and Oil Filter Replacement](#).

OIL PAN REPLACEMENT (FWD)

Removal Procedure

1. Drain the engine oil and remove the oil filter. Refer to [Engine Oil and Oil Filter Replacement](#).
2. Support the engine. Refer to [Engine Support Fixture](#).
3. Remove the drivetrain and front suspension frame front crossmember. Refer to [Drivetrain and Front Suspension Frame Replacement](#).

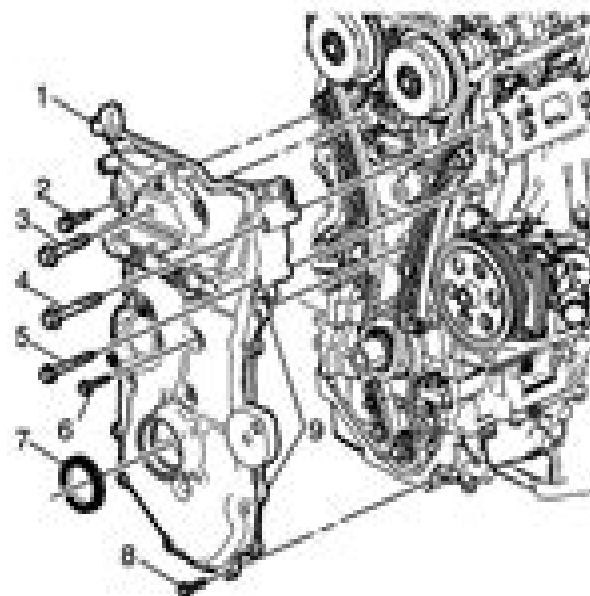


Fig. 186: Front Oil Seal

Courtesy of GENERAL MOTORS COMPANY

4. Remove the front engine cover (1). Refer to [Engine, Front Cover Replacement](#).
5. Remove the front exhaust pipe. Refer to [Exhaust, Front Pipe Replacement \(LTG\)](#).

Manual Repair Diagram

Robert Maddox, John Harold Haynes

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

Manual Repair Diagram:

Aviation Structural Mechanic S 3 & 2 United States. Bureau of Naval Personnel,1966 Aviation Structural Mechanic S 3 & 2 Jerry C. Stewart,1982 Field Manuals United States. War Department,1980-02 **93 - 97 Ford Ranger Repair Manual** , This is the PDF service repair manual for the Ford Ranger 1993 1997 The same manual autoshops and dealers reference to This isnt your everyday off the shelf autostore manual This manual is guranteed to be better than any autostore manual Detailed drawings Detail diagrams Detail step by step instructions Covers more than standard manuals Available as PDF no more damage manuals Chapters include Body Frame and Mounting Engine Suspension Driveline Brakes Transmission Clutch Exhaust system Fuel system Steering Climate Control system Instrumentation and Warning systems Battery and charging system Audio system Lighting Electrical Power supply *Chilton's Auto Repair Manual 1979-1986* Chilton Automotive Books,1985-10-01 **General Motors Full-Size Trucks (99-01) Repair Manual** Jeff Kibler,2002 This manual offers do it yourselfers at all levels total maintenance service and repair information including photos and exploded view illustrations *Digital Overdrive: Automotive & Transportation Technology* , **General Motors Chevrolet Lumina APV, Oldsmobile Silhouette, Pontiac Trans Sport Automotive Repair Manual** J. J. Haynes,John Harold Haynes,1996 Haynes disassembles every subject vehicle and documents every step with thorough instructions and clear photos Haynes repair manuals are used by the pros but written for the do it yourselfer *Manual of instruction in army signalling. [Continued as] Signalling instructions [afterw.] regulations. [Continued as] Training manual-signalling. [With] Amendments. [Continued as] Signal training. [With] Amendments* War office,1921 **Automotive Engine Performance: Practice manual** Ken Layne,1993 The Ultimate Car Repair Manual: Detailed Instructions for Every Maintenance Task Susan T. Maldonado,2025-01-13 Explore the comprehensive guide to car maintenance and repair with this ultimate car repair manual From understanding vehicle systems to using diagnostic tools this book covers everything you need to know to keep your vehicle running smoothly Learn how to perform engine repair and maintenance transmission repair and maintenance brake system repair and maintenance electrical system troubleshooting heating and cooling system repair suspension and steering system maintenance and body and interior repair Whether you re a DIY enthusiast or looking to save money on car repairs this book is a must have for all car owners Master the art of car repair with detailed instructions and step by step guides Say goodbye to expensive auto shop bills and take control of your vehicle s maintenance today Chevrolet S-10 & Blazer, GMC Sonoma & Jimmy, Oldsmobile Bravada, Isuzu Hombre Robert Maddox,John Harold Haynes,2002-01-21 Covers Chevy S 10 and GMC Sonoma pickups 1994 2001 Blazer and Jimmy 1995 2001 and Oldsmobile Bravada Isuzu Hombre 1996 2001 **Bibliography of Scientific and Industrial Reports** ,1946 Manuals Combined: U.S. Army M813 M813A1 M814 5 Ton Cargo Truck - Repair Operator Parts Tech Pubs , Over 5 100 total pages CONTENTS Operator Manual 414 pages June 14 1985 w Changes 1 4 TM 9 2320 260 10 TO 36A12 1C 481 Depot Repair Manual Vol 1 653 pages July 1 1994 TM 9 2320 260

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