

TRANSFER CASE OVERHAUL - BORG-WARNER 13-54

Article Text

1987 Models (4000)

Fig. 1

Courtesy of Ford Motor Road Information Services, Inc.
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ARTICLE BEGINNING

1987 TRANSFER CASES

Models - Borg-Warner 13-54

Models - B-Series Pickup

DESCRIPTION

TRANSFER CASE

The Borg-Warner 13-54 is available in both mechanically and electronically controlled versions. Both types utilize chain-driven internal components. Electronically controlled version utilizes an internal electromagnetic multi-disc clutch assembly to shift transfer case from 2WD-High to 4WD-High while vehicle is in motion (shift on the fly). Transfer case operation (2H to 4H and 4H to 4L) is conducted by an electric motor that moves internal shift forks. (See Fig. 1).

The 13-54 mechanical version transfer case is a manually shifted, part-time 4WD unit. Shifting between 2WD-high and 4WD-high requires vehicle to be stopped and transmission in neutral. Transfer case on both versions is lubricated by a positive displacement oil pump that channels oil flow through drilled holes in rear output shaft.

Models equipped with mechanically controlled transfer cases may be towed with transfer case in Neutral without disconnecting rear drive shaft. Models equipped with electronically controlled transfer cases must have rear drive shaft disconnected, since towing is not available and transmission damage may result.

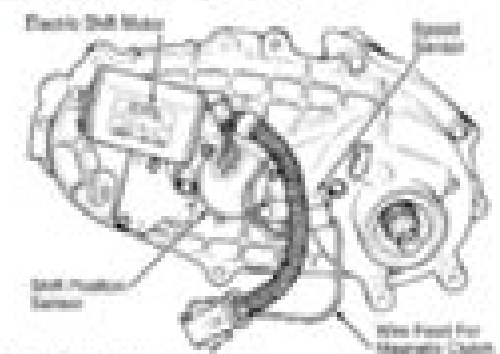


Fig. 1 Identifying Model 13-54 Transfer Case
Courtesy of Ford Motor Co.

OPERATION

1997 Mazda B4000 Pickup Truck Service Repair Manual 97

**Eric Jorgensen, Alan Ahlstrand, John
Harold Haynes**



1997 Mazda B4000 Pickup Truck Service Repair Manual 97:

Subject Guide to Books in Print ,1997 Lemon-Aid Louis-Philippe Edmonston,1997 *Chilton's Ford Ranger Pick-ups 2000-05 Repair Manual* Eric Jorgensen,Alan Ahlstrand,2007-03-02 Covers U S and Canadian models of Ford Ranger and Mazda B2300 B2500 B3000 B4000 pick ups **Ford Ranger and Mazda B-Series Pick-Ups Automotive Repair Manual** Eric Jorgensen,Alan Ahlstrand,John Harold Haynes,2000-06-30 Ford Ranger Pick Ups 1993 99 Repair ManualHaynesSftbd 8 1 4x 1 3 4 319 pgs 766 b w ill **Ford Ranger & Mazda B-series Pick-ups Automotive Repair Manual** Eric Jorgensen,Alan Ahlstrand,John Harold Haynes,2000 Chilton's Ford Ranger Pick-ups 2000-08 Repair Manual Eric Jorgensen,Alan Ahlstrand,2009 Covers all U S and Canadian models of Ford Ranger and Mazda B2300 B2500 B3000 and B4000 pick ups Mazda Pick-up Owners Workshop Manual John Harold Haynes,Peter Ward,1976 **Mazda Pick-up Owners Workshop Manual** J. H. Haynes,Peter Ward,1976-06-01 **Ford Ranger and Mazda (B-Series) Pick-Ups Automotive Repair Manual** Eric Jorgensen,Alan Ahlstrand,J. H. Haynes,2005-05 Complete coverage for your Ford Ranger and Mazda Pick up covering all Ford Ranger models for 1993 thru 2005 and Mazda B2300 B2500 B3000 B4000 for 1994 thru 2005 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 **FORD RANGER HAYNES MANUALS.**,2018 **Mazda Pick-Ups Owner's Workshop Manual** Peter Ward,Mike Stubblefield,John Harold Haynes,1988-01-01 **Mazda 323 & Protegé Automotive Repair Manual** Louis LeDoux,John Harold Haynes,1997 Mazda 323 ProtegT 1990 97 Shop ManualHaynes34 pgs 729 b w ill **Mazda B4000, B3000, B2300 1997 Workshop Manual** Mazda Motor Corporation,1997 *Chilton's Mazda Trucks 1987-93 Repair Manual* ,1999 Haynes Mazda B-Series Pick-Ups Owners Workshop Manual, No. 267 Mike Stubblefield,John Harold Haynes,1990 Chilton's Mazda Trucks 1987-93 Repair Manual Chilton Book Company,1999 The Total Car Care series continues to lead all other do it yourself automotive repair manuals This series offers do it yourselfers of all levels TOTAL maintenance service and repair information in an easy to use format Each manual covers all makes format Each manual covers all makes and models unless otherwise indicated Based on actual teardowns Simple step by step procedures for engine overhaul chassis electrical drive train suspension steering and more Trouble codes Electronic engine controls **Chilton's Mazda** ,1992 Covers all models of B2200 B2600 Navajo and MPV **Chilton's Mazda 323/MX-3/626/Millenia/Protege/Ford Probe (1993-97) 1990-98 Repair Manual** Chilton Book Company,1999 The Total Car Care series continues to lead all other do it yourself automotive repair manuals This series offers do it yourselfers of all levels TOTAL maintenance service and repair information in an easy to use format Covers all models Mazda 323 MX 3 626 MX 6 Millenia Prot g and Ford Probe 1993 97 Based on actual teardowns Simple step by step procedures for engine overhaul chassis electrical drive train suspension steering and more Trouble codes Electronic engine controls **Mazda MX-5 Miata, 1990 Thru 1997** Alan Ahlstrand,John Harold

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Chilton's Ford Pick-Ups/Expedition/Navigator 1997-03 Repair Manual Eric Michael Mihalyi,Jay Storer,2007-05-09
Covers U S and Canadian models of Ford F 150 1997 thru 2003 and F 250 Pick ups 1997 thru 1999 Ford Expedition 1997 thru 2002 and Lincoln Navigator 1998 thru 2002 2 and 4 wheel drive gasoline engines Does not include diesel engine F 250HD Super Duty F 350 or information specific to Lightning models

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