Haynes Ford Ranger, Bronco II

Haynes Repair Manual: Ford Ranger & Bronco II (1983-1992)

Comprehensive Service and Repair Procedures for 2WD and 4WD Gasoline Models

Introduction
Safety
General Info
Maintenance
Troubleshooting
Specifications

1. Introduction to Your Repair Manual

This Haynes Repair Manual provides detailed instructions and illustrations for the complete maintenance, service, and repair of Ford Ranger and Bronco II models produced between 1983 and 1992. It covers both 2-wheel drive (2WD) and 4-wheel drive (4WD) variants equipped with gasoline engines. The content is based on a complete teardown and rebuild of the vehicle, ensuring comprehensive and accurate procedures.
The manual is designed for both the novice and experienced mechanic, offering step-by-step guidance for various tasks, from routine maintenance to complex engine overhauls. Always refer to the specific sections relevant to your vehicle's year and configuration.

2. Safety Information and Precautions

Working on a vehicle can be hazardous. Always prioritize safety to prevent injury or damage. Adhere to the following general safety guidelines:

- **Eye Protection:** Always wear safety glasses or goggles when working under the vehicle or with tools.
- **Hand Protection:** Use appropriate gloves to protect hands from chemicals, heat, and sharp objects.
- **Ventilation:** Ensure adequate ventilation when working with solvents, fuels, or when the engine is

running. Carbon monoxide is odorless and deadly.

- **Vehicle Support:** Never work under a vehicle supported only by a jack. Always use sturdy jack stands on a level surface.
- **Battery Disconnection:** Disconnect the negative battery cable before performing any electrical work to prevent accidental shorts or activation of electrical components.
- **Flammable Materials:** Keep open flames, sparks, and smoking materials away from fuel and other flammable liquids.
- **First Aid:** Keep a first aid kit readily accessible in your workshop.

---

3. General Information and Workshop Practices

This section provides foundational knowledge for effective vehicle repair and maintenance. It covers essential tools, workshop setup, and basic procedures applicable across various tasks.

3.1 Essential Tools

A basic set of hand tools is required for most tasks. This includes wrenches, sockets, screwdrivers, pliers, and a torque wrench. Specialized tools may be necessary for certain procedures, and these will be noted in the relevant sections.

3.2 Workshop Preparation

Ensure your workspace is clean, well-lit, and organized. Have a fire extinguisher nearby. Proper lighting is crucial for identifying components and ensuring correct assembly.

3.3 Fastener Identification and Torque

Understanding different types of fasteners (bolts, nuts, screws) and their proper torque specifications is vital. Overtightening can strip threads or break components, while undertightening can lead to loosening and failure. Always refer to the torque specifications provided in this manual.

---

4. Routine Maintenance and Service

Regular maintenance is crucial for the longevity and reliable operation of your Ford Ranger or Bronco II. This section outlines recommended service intervals and procedures.

4.1 Fluid Checks and Changes

- **Engine Oil:** Check level regularly, change according to schedule.
- **Coolant:** Inspect level and condition, flush and refill as recommended.
- **Transmission Fluid:** Check level and condition for both manual and automatic transmissions.
- **Brake Fluid:** Check level and condition.
- **Power Steering Fluid:** Check level.

4.2 Filter Replacements

- **Air Filter:** Inspect and replace as needed to ensure proper engine breathing.
- **Fuel Filter:** Replace at recommended intervals to prevent fuel system contamination.
- **Oil Filter:** Replace with every engine oil change.

4.3 Other Maintenance Items

- **Spark Plugs:** Inspect and replace for optimal ignition.
- **Belts and Hoses:** Inspect for wear, cracks, or leaks.
- **Tire Rotation and Pressure:** Maintain correct tire pressure and rotate tires for even wear.
- **Brake Inspection:** Check brake pad wear, rotor condition, and fluid lines.

---

5. Troubleshooting Common Problems

This section provides guidance for diagnosing and resolving common issues that may arise with your Ford Ranger or Bronco II. It covers symptoms, potential causes, and recommended diagnostic steps.

5.1 Engine Related Issues

- **Engine Cranks but Won't Start:** Check fuel supply, ignition system, and battery condition.
- **Engine Misfires or Runs Rough:** Inspect spark plugs, ignition wires, fuel injectors, and vacuum leaks.
- **Overheating:** Check coolant level, radiator, thermostat, and cooling fan operation.

5.2 Electrical System Malfunctions

- **Battery Not Holding Charge:** Inspect battery terminals, alternator, and battery condition.
- **Lights Not Working:** Check bulbs, fuses, and wiring connections.

5.3 Brake System Concerns

- **Squealing or Grinding Brakes:** Indicates worn brake pads or rotors.
- **Soft Brake Pedal:** May indicate air in the brake lines or a master cylinder issue.

---

6. Technical Specifications

This section provides key technical data and specifications for the Ford Ranger and Bronco II models covered by this manual. Always refer to the specific chapter for detailed specifications related to a particular component or system.

6.1 Engine Specifications

Includes details such as engine displacement, horsepower, torque, cylinder firing order, and valve clearances for various engine types available during the 1983-1992 production years.

6.2 Fluid Capacities and Types

Provides recommended fluid types (e.g., engine oil viscosity, coolant type, transmission fluid specifications) and their respective capacities for the engine, transmission, cooling system, and other components.

6.3 Torque Specifications

Critical torque values for various fasteners throughout the vehicle, including engine components, suspension, brakes, and driveline. Adhering to these values is essential for proper assembly and safety.

6.4 General Dimensions and Weights

Basic vehicle dimensions, curb weight, and gross vehicle weight ratings (GVWR) for different configurations.

Manual Cover Reference

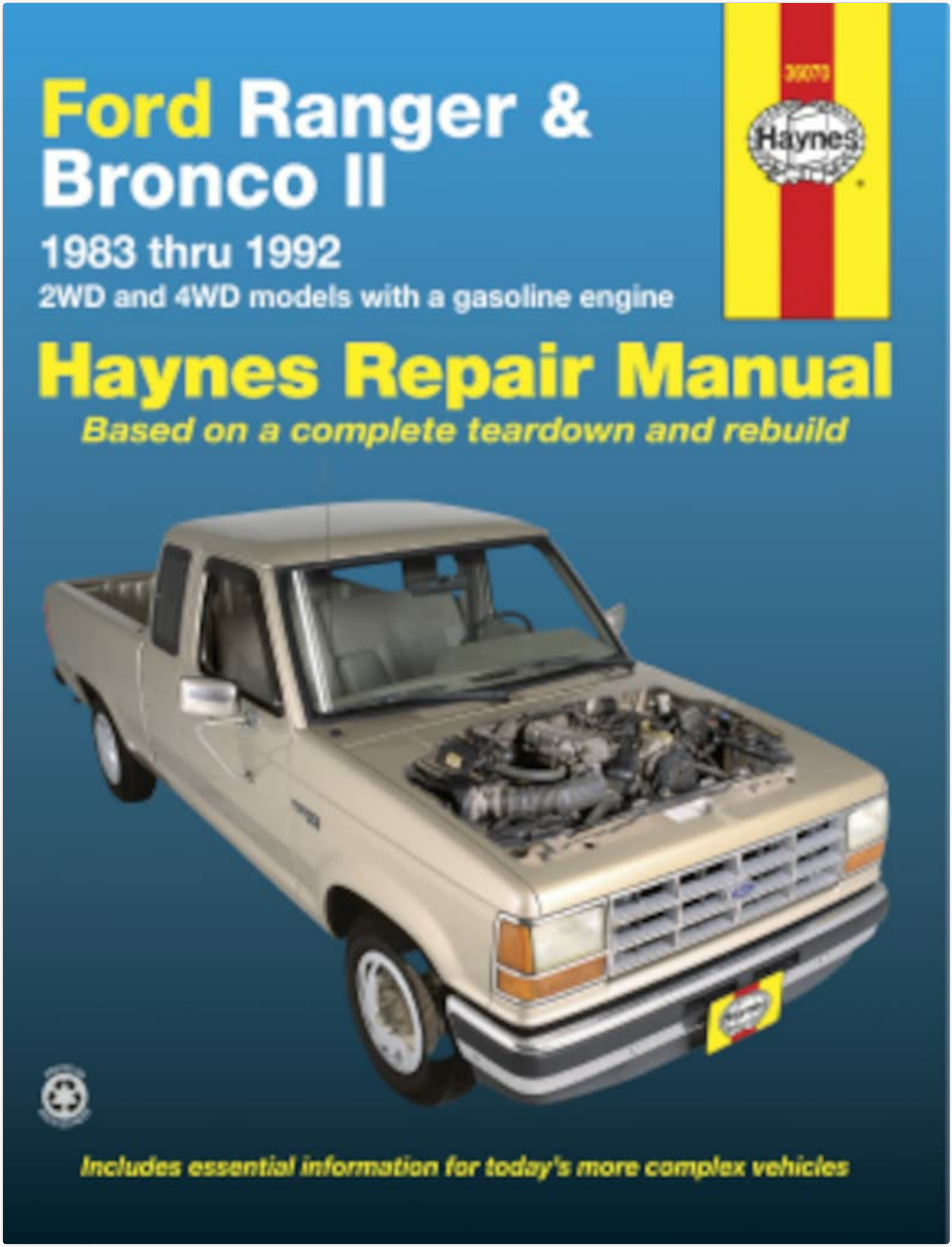

Image: Front cover of the Haynes Repair Manual for Ford Ranger and Bronco II, covering models from 1983 through 1992. The cover displays a beige Ford Ranger pickup truck with its hood open, illustrating the manual's focus on detailed vehicle repair. Key information such as the vehicle models, years covered, and the 'Haynes Repair Manual' branding are clearly visible.