

Haynes Legacy 1990-1999

Haynes Repair Manual for Subaru Legacy (1990-1999)

Comprehensive Vehicle Maintenance and Repair Guide

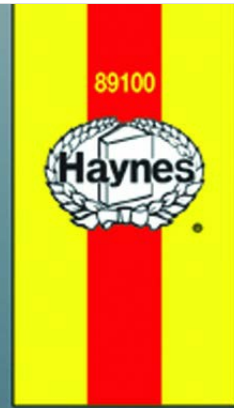
INTRODUCTION

This Haynes Repair Manual provides detailed, step-by-step instructions for the maintenance, service, and repair of Subaru Legacy models manufactured between 1990 and 1999. It is designed to assist both novice and experienced mechanics in performing various tasks, from routine procedures to complex engine rebuilds. The manual covers all Subaru Legacy models from 1990 through 1999, including Legacy Outback and Legacy Brighton variants.

Subaru Legacy

1990 thru 1999 □ All models

Includes Legacy Outback & Legacy Brighton



Haynes Repair Manual

Based on a complete teardown and rebuild



Includes essential information for today's more complex vehicles

Image: Front cover of the Haynes Repair Manual for Subaru Legacy 1990-1999, showing a Subaru Legacy wagon with its hood open.

GENERAL INFORMATION AND SAFETY

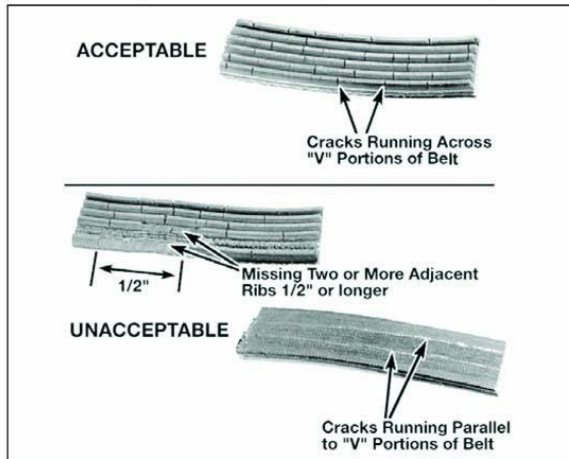
Before beginning any work on your vehicle, it is crucial to review the general information and safety precautions outlined in this manual. Always prioritize safety by using appropriate tools, wearing protective gear, and following all warnings and cautions. The manual includes notes, cautions, and warnings specifically for the home mechanic to ensure safe and effective repairs.

ROUTINE MAINTENANCE

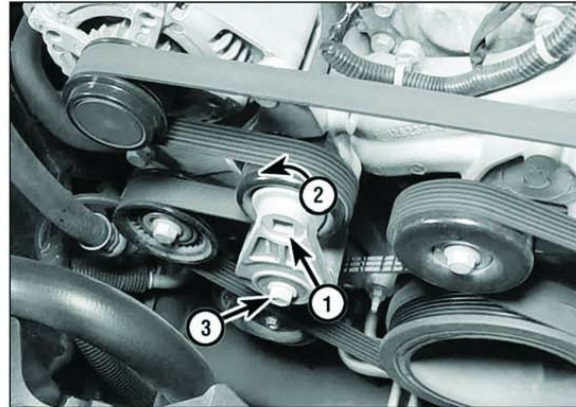
Regular routine maintenance is essential for the longevity and optimal performance of your Subaru Legacy. This section details procedures such as oil changes, fluid checks, filter replacements, and tire rotations. Following the recommended service intervals will help prevent major issues and ensure reliable operation.

1-20

Chapter 1 Tune-up and routine maintenance

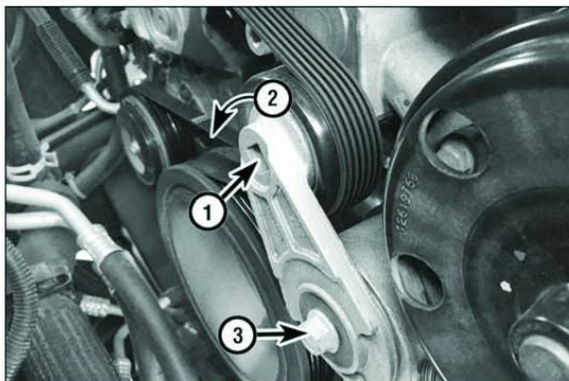


12.4 Small cracks in the underside of a V-ribbed belt are acceptable - lengthwise cracks, or missing pieces that cause the belt to make noise, are cause for replacement



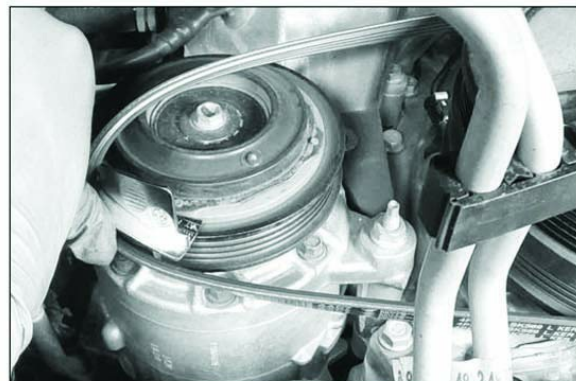
12.6a V6 engine accessory drivebelt tensioner details

- 1 Square drive
- 2 Rotate counterclockwise to release tension
- 3 Tensioner mounting bolt



12.6b V8 engine accessory drivebelt tensioner details

- 1 Square drive
- 2 Rotate counterclockwise to release tension
- 3 Tensioner mounting bolt



12.13 Install the belt installation tool and rotate the crankshaft pulley until the belt is lifted onto the pulley

glazing which gives the belt a shiny appearance. Check the pulleys for nicks, cracks, distortion and corrosion.

4 Note that it is not unusual for a ribbed belt to exhibit small cracks in the edges of the belt ribs, and unless these are extensive or very deep, belt replacement is not essential (see illustration).

Replacement

Accessory drivebelt (alternator, water pump and power steering pump, if equipped)

5 Remove the air intake duct (see Chapter 4, Section 12).

6 Note how the drivebelt is routed, then insert a 1/2-inch square drive breaker bar into the tensioner pulley square hole. Rotate

the tensioner counterclockwise (see illustrations) to release the drivebelt tension. Once tension has been released, remove the belt from the pulleys. Once the outer belt has been removed, the air conditioning belt and vacuum pump belt can be accessed.

7 Install the new drivebelt onto the crankshaft, idler, alternator, power steering pump and water pump pulleys, then turn the tensioner back and locate the drivebelt on the tensioner pulley. Make sure that the drivebelt is correctly seated in all of the pulley grooves, then release the tensioner. Reinstall the air filter duct.

Air conditioning compressor drivebelt

8 Remove the accessory drivebelt (see Steps 5 and 6).

9 Remove the engine splash shield (see Section 8).

10 Using a pair of diagonal cutting pliers, cut the air conditioning belt to remove it.

Note: Some tool manufacturers make air conditioning compressor belt removal tools that can remove the belt without cutting it off. We only recommend using this type of tool if the belt is relatively new. Always check the belt for damage after the removal process.

11 Place the new belt on the crankshaft pulley, making sure the belt is fully seated in the pulley grooves.

12 Place the installation tool on the compressor pulley, then loop the belt over the tool.

13 Rotate the crankshaft pulley and allow the tool to turn, which will lift the belt onto the pulley (see illustration).

Image: An internal page from the manual illustrating acceptable and unacceptable conditions for V-ribbed belts, along with diagrams for V6 engine accessory drivebelt tensioner details and removal/installation of the crankshaft pulley.

TUNE-UP PROCEDURES

This section provides comprehensive tune-up procedures to maintain engine efficiency and performance. It covers spark plug inspection and replacement, ignition timing adjustments, and other critical tune-up tasks.

ENGINE REPAIR

Detailed instructions for engine repair, including component removal, inspection, and installation, are provided. This covers everything from minor adjustments to complete engine rebuilds, ensuring you have the information needed for various engine-related issues.

COOLING AND HEATING SYSTEMS

Learn how to diagnose and repair issues with your vehicle's cooling and heating systems. This section includes procedures for radiator maintenance, thermostat replacement, heater core service, and coolant flushes.

AIR CONDITIONING

This manual offers guidance on the air conditioning system, including component checks, refrigerant handling precautions, and repair procedures to ensure comfortable cabin temperatures.

FUEL AND EXHAUST SYSTEMS

Instructions for servicing and repairing the fuel delivery system, including fuel pump, fuel filter, and injector maintenance, are covered. Additionally, this section addresses exhaust system components and their replacement.

EMISSIONS CONTROL

Understand and maintain your vehicle's emissions control system with detailed information on components such as the oxygen sensor, catalytic converter, and EGR valve, along with diagnostic procedures.

IGNITION SYSTEM

This section provides detailed information on the ignition system, including spark plug diagnosis, ignition coil testing, and distributor service, to ensure proper engine combustion.

BRAKES

Comprehensive procedures for inspecting, maintaining, and repairing the braking system are included. This covers disc brakes, drum brakes, ABS components, and hydraulic system bleeding.

SUSPENSION AND STEERING

Instructions for servicing the suspension and steering components, including shock absorbers, struts, control arms, and power steering system maintenance, are provided to ensure stable handling.

ELECTRICAL SYSTEMS AND WIRING DIAGRAMS

This section offers detailed information on the vehicle's electrical systems, including component testing, circuit diagnosis, and repair. Complete wiring diagrams are provided to assist in tracing electrical faults and understanding system layouts.

TROUBLESHOOTING

A dedicated troubleshooting section helps identify specific problems based on symptoms. This guide provides systematic approaches to diagnose issues efficiently, reducing the time and effort required for repairs.

TECHNICAL SPECIFICATIONS

This section contains important technical specifications for the Subaru Legacy models covered by this manual, including dimensions, weight, and publication details.

Specification	Detail
Publisher	Haynes Manuals N. America, Inc.
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Dimensions	8.25 x 0.75 x 10.63 inches

SUPPORT AND RESOURCES

For additional support, free videos, tips, and further details on the complete range of Haynes manuals, please visit the official Haynes website. This resource can provide supplementary information to assist with your vehicle maintenance and repair needs.

Official Website: www.haynes.com