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› febi bilstein 28903 Auxiliary Belt Instruction Manual

febi bilstein 28903

febi bilstein 28903 Auxiliary Belt Instruction Manual

Model: 28903 | Brand: febi bilstein

1. INTRODUCTION

This manual provides essential information regarding the febi bilstein 28903 Auxiliary Belt. It is designed to assist users in understanding the product's characteristics, compatibility, and general installation guidelines. febi bilstein Auxiliary Belts are not universal products and are tailored to the specific requirements of each vehicle manufacturer.

2. SAFETY INFORMATION

These products are designed to be used as originally intended and not modified for purpose. Please ensure the products are installed by a competent individual. Products are usually supplied without fitting instructions.

Incorrect installation can lead to premature belt failure, damage to vehicle components, or personal injury. Always prioritize safety and consult a qualified automotive technician for installation.

3. PRODUCT OVERVIEW

The febi bilstein 28903 is an auxiliary belt designed for various automotive applications. It is a V-ribbed belt, also known as a serpentine belt, responsible for transmitting power to essential engine accessories.

- **Length:** 905 mm
- **Weight:** 0.04 kg (40 g)
- **Number of Ribs:** 6
- **Material:** Polymer
- **Product Dimensions (Packaging):** 23.23 x 11.64 x 5.05 cm





**Keilrippenriemen
Multi V Belt**



Stück 1
pcs 1

Nr.
No.

Keilrippenriemen
Auxiliary Belt
courroie trapézoïdale à nervures
cuña correa acanalada
cinghia ausiliaria
multi V-riem
Pasek wielorowkowy
поликлиновой ремень

Ferdinand Bilstein GmbH+Co.KG
Wilhelmstr.47 | 58256 Ennepetal



bilstein

Hersteller

We produce quality

febi bilstein

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Quality from Hertenstein

We produce quality

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Image 1: febi bilstein 28903 Auxiliary Belt in its retail packaging.



Image 2: Close-up view of the multi-V ribbed surface of an auxiliary belt, showing the six ribs.

4. VEHICLE COMPATIBILITY

This auxiliary belt is specifically designed for a range of vehicle manufacturers and models. To ensure correct fitment, always verify compatibility using the vehicle identification number (VIN) or by consulting a professional. All restrictions must be observed.

Compatible Vehicle Models

- **Mini (BMW):** Cooper (R55, R56 LCI, R56, R57), One (R55, R56)
- **Audi:** A3 (8L, 8P), A3 quattro (8L)
- **Seat:** Altea (5P), Cordoba (6K), Ibiza II (6K), Ibiza III (6K), Inca (6K), Leon (1M, 1P), Leon 4x4 (1M), Toledo II (1M)
- **Skoda:** Octavia I (1U), Octavia I 4x4 (1U), Octavia II (1Z), Octavia II 4x4 (1Z)
- **VW:** Bora (1J), Bora 4motion (1J), Caddy 2 (9K), Caddy 3 (2C, 2K), Crossgolf (5M), Crosstouran 1 (1T), Eos (1F), Golf 4 (1J), Golf 4 4motion (1J), Golf 4 Variant (1J), Golf 4 Variant 4motion (1J), Golf 5 (1K, 5M), Golf 5 4motion (1K), Golf 5 Variant (1K), Golf 6 (52, 5K), Golf 6 Variant (AJ), New Beetle (1C, 9C), Polo 3 (6V), Touran (1T)
- **Renault:** Clio I, Rapid
- **Citroën:** C4 II, DS4
- **Peugeot:** 0508, 207, 208, 3008 I, 308 I, 5008 I, Partner III, RCZ

OEM Part Numbers (for cross-reference)

- **Audi:** 038 903 137 G
- **Citroën:** 5750.RG

- **DS:** 5750.RG
- **Mini (BMW):** 11 28 7 566 789
- **Peugeot:** 5750.RG
- **Renault PKW:** 77 00 749 393
- **Seat:** 038 903 137 G
- **Skoda:** 038 903 137 G
- **VW:** 038 903 137 G
- **Other OEM numbers:** 038 903 137, 06F 903 137 E, 38 903 137, 38 903 137 G, 38903137, 6F 903 137 E, 11 28 7 534 399, 11 28 7 571 377, 6PK0894, 6PK0900, 6PK0905, 1 987 946 027, 1 987 947 936, 6PK900, 6PK905, 17159 01, 25920 01, VKMA 31018, VKMA 33410, VKMC 33410, VKMV 6PK900, VKMV 6PK903, VKMV 6PK905, VKMV 6PK906, QBR6900, 28903, CA6PK903, 537 0131 10, 537 0185 10, 537 0186 10, FB 6PK894, FB 6PK900, FB 6PK905, 6PK0905, AD06R903, 6PK906.

5. INSTALLATION GUIDELINES

The installation of an auxiliary belt requires specific tools and technical knowledge. It is strongly recommended that this product be installed by a qualified automotive technician. Consult your vehicle's service manual for detailed, model-specific instructions.

General Steps (Consult a service manual for your specific vehicle)

1. Identify the auxiliary belt routing diagram for your vehicle model.
2. Locate the tensioner pulley and relieve tension on the old belt.
3. Carefully remove the old belt, noting its path.
4. Inspect all pulleys (tensioner, idler, alternator, power steering, AC compressor) for wear, damage, or excessive play. Replace any faulty components.
5. Route the new febi bilstein 28903 Auxiliary Belt according to the diagram. Ensure it is correctly seated in all pulley grooves.
6. Apply tension to the new belt using the tensioner.
7. Verify proper belt alignment and tension.
8. Start the engine and check for any unusual noises or belt slippage.

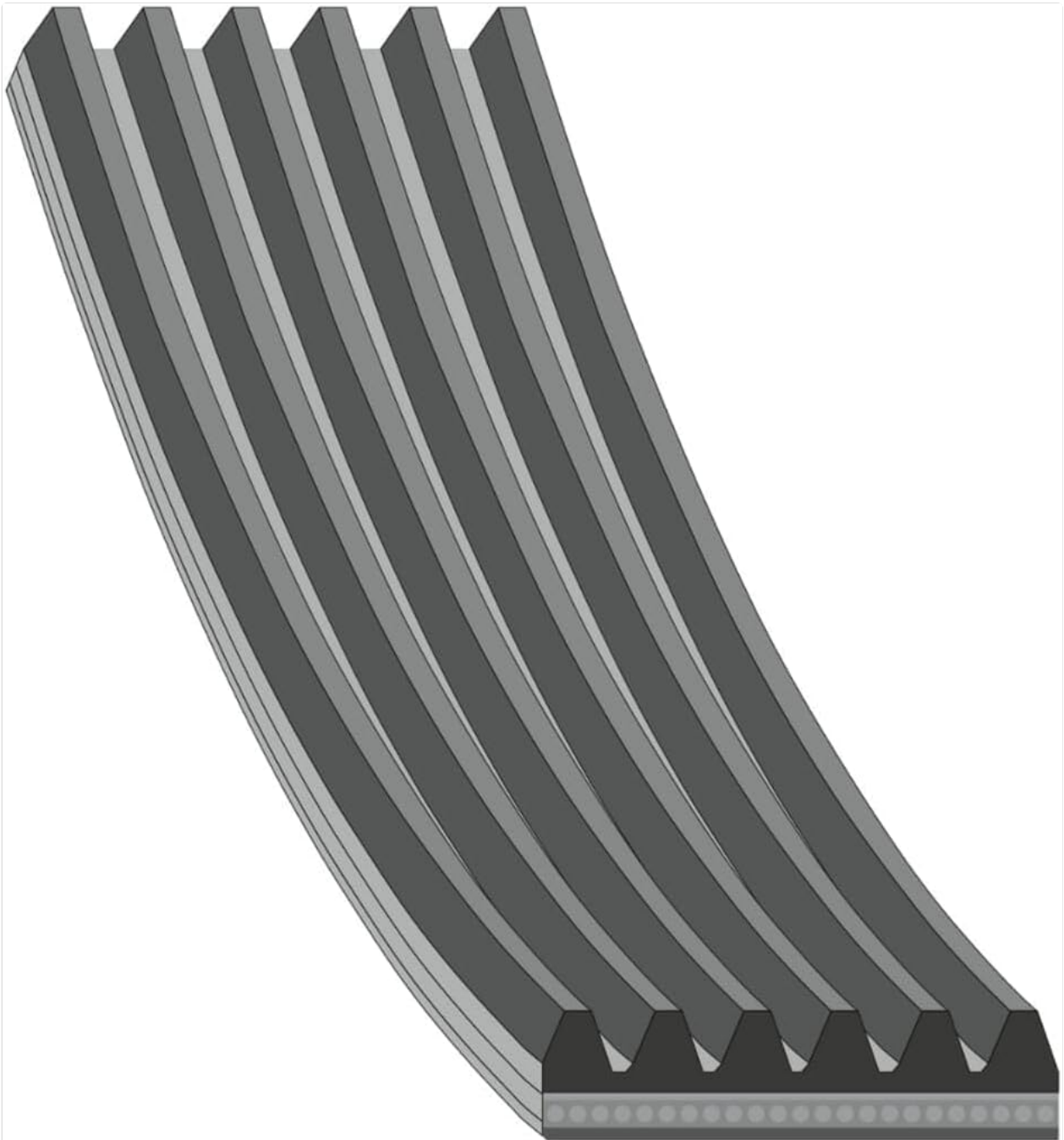


Image 3: Diagram illustrating the cross-section of a multi-V belt, highlighting the ribbed structure for proper seating.

6. OPERATION AND FUNCTION

The auxiliary belt transmits power from the engine's crankshaft to various peripheral components such as the alternator, power steering pump, air conditioning compressor, and water pump (on some vehicles). Proper operation of the belt is crucial for the functioning of these systems, ensuring the vehicle's electrical system charges, power steering assists, and climate control operates correctly.

7. MAINTENANCE AND INSPECTION

Regular inspection of the auxiliary belt is essential for vehicle reliability and to prevent unexpected breakdowns.

- **Visual Inspection:** Periodically check the belt for signs of wear, such as cracks, fraying, glazing (a shiny, hardened surface), missing ribs, or contamination (e.g., oil, coolant).
- **Noise:** Listen for squealing or chirping noises, especially during cold starts or when turning the steering

wheel, which may indicate a worn or improperly tensioned belt.

- **Tension:** While many vehicles use automatic belt tensioners, ensure the belt maintains appropriate tension. A loose belt can slip, while an overly tight belt can stress bearings in the accessory components.
- **Replacement:** Replace the auxiliary belt according to your vehicle manufacturer's recommended service intervals or immediately if signs of significant wear or damage are observed.



Image 4: Diagram showing the ribbed profile of an auxiliary belt, illustrating the contact surface with pulleys.

8. TROUBLESHOOTING COMMON ISSUES

Belt Squeal or Chirp

Cause: Loose belt, worn belt, misaligned pulleys, contaminated belt (oil/coolant), worn tensioner or idler pulley.

Solution: Inspect belt tension and condition. Check pulleys for alignment and wear. Clean any contaminants. Replace worn components as necessary.

Loss of Power Steering, AC, or Charging

Cause: Broken or severely slipping auxiliary belt.

Solution: Immediately inspect the belt. If broken, replace it. If slipping, check tension and condition, and address any underlying issues with pulleys or accessories.

Visible Cracks or Fraying

Cause: Normal wear and tear, excessive heat, or improper installation.

Solution: Replace the belt immediately to prevent sudden failure and potential damage to other engine components.

9. TECHNICAL SPECIFICATIONS

Feature	Detail
Model Number	28903
Brand	febi bilstein
Manufacturer	Febi
Belt Style	Auxiliary (V-Drive)
Length	905 mm
Number of Ribs	6
Material	Polymer
Item Weight	40 g
Product Dimensions (Packaging)	23.23 x 11.64 x 5.05 cm
First Available Date	15 April 2013

10. WARRANTY AND SUPPORT

febi bilstein products are manufactured to high-quality standards. For specific warranty information or technical support, please refer to the official febi bilstein website or contact their customer service directly.

As a brand with over 170 years of experience, febi bilstein stands for continuity, quality, service, reliability, and innovation, providing solutions "Made in Germany".