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› Torchbeam AC Compressor with Clutch Instruction Manual for Mercedes-Benz E-Class, ML-Class, C-Class (1996-2003 E320 Model)

Torchbeam 1996-2003 E320

Torchbeam AC Compressor with Clutch Instruction Manual

Model: 1996-2003 E320

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Torchbeam AC Compressor with Clutch. Designed for specific Mercedes-Benz models, this compressor ensures efficient and reliable air conditioning performance. Please read these instructions thoroughly before installation and use to ensure proper function and safety.

VEHICLE COMPATIBILITY

This A/C Compressor with Clutch is compatible with the following Mercedes-Benz models:

- Mercedes-Benz E-Class: 1996-2003 (3.2L, 4.2L, 4.3L, 5.0L engines)
- Mercedes-Benz ML-Class: 1998-2002 (3.2L, 4.3L engines)
- Mercedes-Benz C-Class: 1996-2000 (2.2L, 2.8L engines)

It also fits specific Chrysler and Freightliner models. For a detailed list, refer to the compatibility chart below. Always verify fitment using your vehicle's specific year, make, and model before proceeding with installation.

TORCHbeam

AC COMPRESSOR

Torchbeam Offers an Extensive Range of High-quality AC Compress to Meet Your Needs



Image: Detailed compatibility information for various vehicle models.

PRODUCT FEATURES

The Torchbeam AC Compressor is engineered for reliable performance and durability:

- **Reliable Replacement:** Undergoes strict pressure leak detection tests for durable longevity.
- **Refrigerant Type:** Designed for R134a refrigerant.
- **Oil Type:** Prefilled with PAG 46 oil.
- **Pulley Specifications:** 6 grooves, 4.75-inch diameter, Multi-Groove Serpentine type.
- **Clutch Included:** Yes.
- **Low Noise Operation:** Engineered for quiet performance.
- **Compressor Model:** 7SB16C.
- **Efficient Refrigeration:** Utilizes advanced cooling technology for effective temperature control in various climates.
- **Defogging Function:** Effective defogging for clear visibility in cold weather.
- **Optimized Performance:** Provides efficient cooling while managing energy consumption.

Construction Details



Image: The AC compressor features a durable aluminum housing for corrosion resistance and structural integrity.

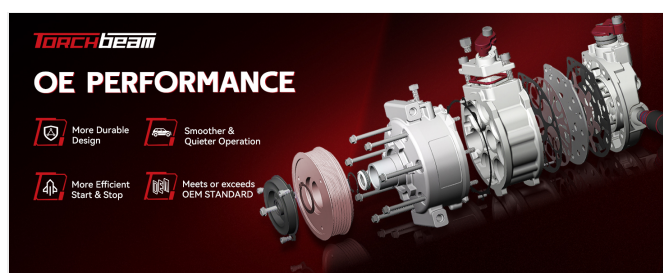


Image: Components are precisely machined to OE specifications, ensuring accurate fitment and reliable operation.



DURABLE 5-GROOVE PULLEY

Lower Noise

72 dB
Under

Premium Cooling
Performance

3800 Kcal/h
Up to

Image: Overview of performance benefits including quick chill, lower noise, no leaking, and reduced fuel usage.

WHEN TO CONSIDER REPLACEMENT

Several indicators suggest that your AC compressor may need replacement:

- **Insufficient Cooling:** The AC system does not cool effectively.
- **Poor Heat Dissipation:** Engine overheating or inefficient cooling.
- **Abnormal Noise:** Unusual sounds coming from the compressor area.
- **Oil Leak:** Visible refrigerant oil leaks around the compressor.



PREMIUM ALUMINUM ALLOY

- ▶ Anti-corrosion & Anti-rust
- ▶ Turning Precess

Image: Visual examples of common symptoms indicating a need for AC compressor replacement.

SETUP AND INSTALLATION

Installation of an AC compressor requires specialized tools and knowledge of automotive air conditioning systems. It is highly recommended that installation be performed by a certified professional to ensure proper function, prevent damage, and maintain system integrity.

Verifying Fitment

Before installation, confirm that this product is the correct fit for your vehicle. You can typically do this by using the "Amazon Confirmed Fit" tool on the product page or by cross-referencing the OEM part numbers provided in the specifications section with your vehicle's requirements.

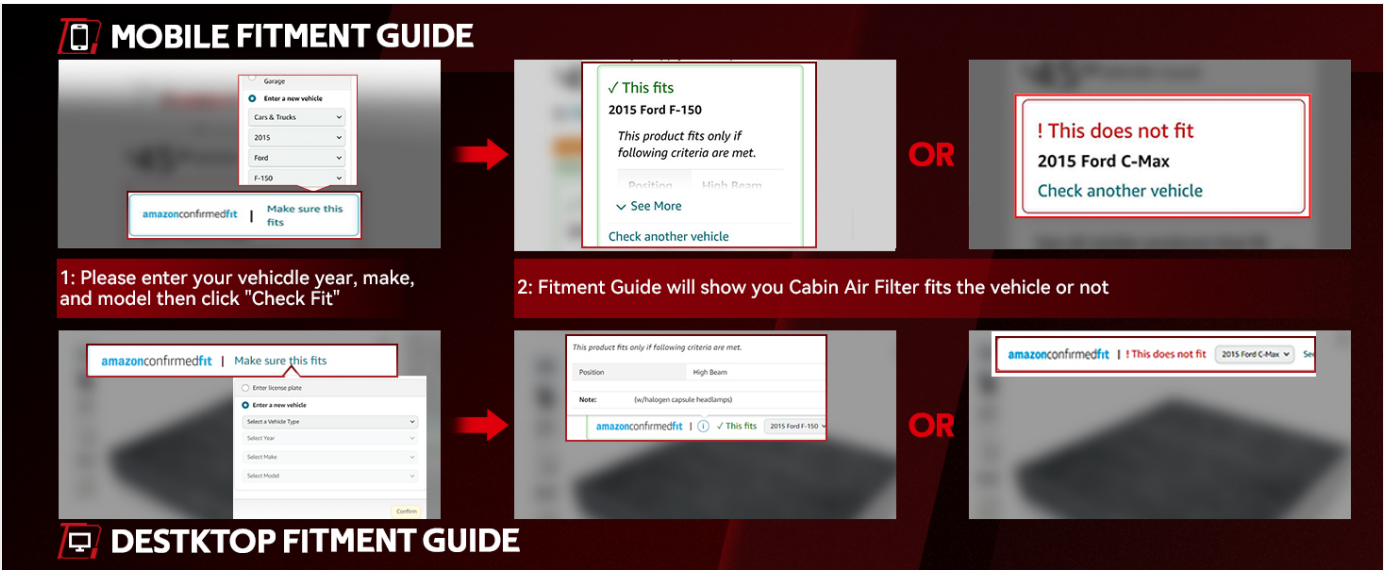


Image: Step-by-step guide on using online tools to confirm vehicle compatibility.

Key Components Overview

Your browser does not support the video tag.

Video: A visual overview of the AC Compressor with Clutch, highlighting its main components and connection points. This video is provided by LZ-AUTO, a seller of this product.



COMPATIBLE INFORMATION

Replacement for Chrysler :

• 2005-2006	Crossfire	V6 3.2L
• 2004	Crossfire	ALL Engine
• 2007-2008	Crossfire	ALL Engine

Replacement for Dodge :

• 2003-2006	Sprinter 2500	ALL Engine
• 2003-2006	Sprinter 3500	ALL Engine

Replacement for Freightliner :

• 2002-2006	Sprinter 2500	ALL Engine
• 2002-2006	Sprinter 3500	ALL Engine

Replacement for Mercedes-Benz :

• 1996	C220	ALL Engine	Convertible
• 1997-2000	C230	ALL Engine	
• 1996-2000	C280	ALL Engine	
• 1996-1997	C36 AMG	ALL Engine	
• 1998-2000	C43 AMG	ALL Engine	
• 1998-2000	CL500	ALL Engine	
• 1998-2002	CLK320	ALL Engine	
• 2003	CLK320	V6 3.2L	
• 1999-2003	CLK430	ALL Engine	
• 2001-2002	CLK55 AMG	ALL Engine	
• 1996-1999	E300	ALL Engine	
• 1996-2003	E320	ALL Engine	
• 1997	E420	ALL Engine	
• 1998-2002	E430	ALL Engine	
• 2003	E500	ALL Engine	
• 1999-2003	E55 AMG	ALL Engine	
• 1998-2002	ML320	ALL Engine	
• 1999-2001	ML430	ALL Engine	
• 2002	ML500	ALL Engine	
• 2000-2002	ML55 AMG	ALL Engine	
• 1998-1999	S320	ALL Engine	
• 1997	S320	ALL Engine	

**Note: To make sure the part will fit your vehicle correctly,
Please use our FITMENT BAR function at the top of the listing and input your full vehicle information.**

Image: A close-up view of the electrical connector on the AC compressor, showing its design and location.

General Installation Steps (Professional Installation Recommended):

1. **System Discharge:** Safely discharge the existing refrigerant from the AC system using appropriate recovery equipment.
2. **Remove Old Compressor:** Disconnect electrical connections, refrigerant lines, and mounting bolts from the old compressor.
3. **Inspect and Replace Components:** Inspect and replace the accumulator/receiver drier and expansion valve/orifice

tube. Flush the AC system to remove contaminants.

- 4. **Install New Compressor:** Mount the new Torchbeam AC compressor, connect refrigerant lines, and electrical connections. Ensure all connections are secure.
- 5. **Vacuum and Recharge:** Evacuate the AC system to remove air and moisture. Recharge with the correct type and amount of R134a refrigerant and PAG 46 oil as specified for your vehicle.
- 6. **Leak Test:** Perform a leak test to ensure there are no refrigerant leaks.
- 7. **Test System:** Start the vehicle and test the AC system for proper operation and cooling performance.

Warning: Improper installation or handling of refrigerants can cause serious injury or damage to the vehicle. Always consult a professional or refer to your vehicle's service manual.

OPERATING INSTRUCTIONS

Once installed and properly charged, the AC compressor operates automatically as part of your vehicle's air conditioning system. When you activate the AC system in your vehicle, the compressor engages to circulate refrigerant, providing cooling or heating as selected.

- **AC Activation:** Turn on your vehicle's air conditioning system using the dashboard controls.
- **Temperature Control:** Adjust the temperature settings to your desired comfort level.
- **Fan Speed:** Select the appropriate fan speed for optimal airflow.
- **Defrost/Defog:** Utilize the defrost or defog settings for clear windshield visibility, especially in humid or cold conditions. The compressor assists in removing moisture from the air.

Ensure your vehicle's engine is running when operating the AC system to prevent battery drain.

MAINTENANCE

Regular maintenance helps prolong the life and efficiency of your AC compressor and entire air conditioning system:

- **Regular System Checks:** Have your AC system inspected annually by a qualified technician.
- **Refrigerant Level:** Ensure proper refrigerant levels. Low refrigerant can cause the compressor to overwork and fail.
- **Belt Inspection:** Check the serpentine belt that drives the compressor for wear, cracks, or proper tension. Replace if necessary.
- **Condenser Cleaning:** Keep the condenser (located in front of the radiator) free from debris, leaves, and dirt to ensure efficient heat exchange.
- **Run AC Periodically:** Even in cold weather, run your AC system for about 10-15 minutes once a month to keep seals lubricated and prevent refrigerant leaks.
- **Cabin Air Filter:** Replace your cabin air filter regularly to maintain good airflow and air quality.

TROUBLESHOOTING

If you experience issues with your AC system, consider the following common problems and potential solutions. For complex issues, professional diagnosis and repair are recommended.

Problem	Possible Cause	Solution
AC not blowing cold air	Low refrigerant, faulty compressor clutch, electrical issue, clogged expansion valve.	Check refrigerant levels, inspect compressor clutch engagement, check fuses/wiring, professional diagnosis.

Problem	Possible Cause	Solution
Unusual noises from AC	Worn compressor bearings, loose mounting, low oil, failing clutch.	Professional inspection to identify source of noise and repair/replace components.
AC compressor not engaging	Low refrigerant pressure, faulty pressure switch, electrical issue, worn clutch.	Check refrigerant, test pressure switch, inspect electrical connections, replace clutch or compressor.
Visible leaks	Damaged seals, cracked housing, loose connections.	Professional leak detection and repair.

SPECIFICATIONS

Feature	Detail
Brand	Torchbeam
Model Name	AC Compressor
Item Model Number	1996-2003 E320
Manufacturer Part Number	1116ACC0435US
OEM Part Numbers	1520971, 4711293, 000230701187, 2302011, 6511631, 0002307011, 351175511, 000230681180, 5511631, 254442, 4710293, 000230701188, 8FK351175511, 5117668AA, 0610045, 7512187, CO105111Z, CO105111DZ, CO4711478, 2369, 7511631, 2041697, 2011112, 8FK351175011, 6001188, 2307011, 5512187, RX097010AA, 5117666AA, 142986, CO105111C, TEM275638, 1440N, 5844, 5839, 142986C, 10000701, 000230201160, 000230681188, 000230201188, 275638, 142986NEW, 3003760, 89022, A0002302011, 6512187, 10347421, DW77356, 2011112AM, 2011112R, 77356, 4471705749, 78356, 5117680AA, 000362, 5117679AA, 639307, 0002306811, C1247, 0002340911, 5097010AA, 000230701180, 000230201180, 0002302011, 000230681187, 5117665AA, CS20084, 0230701180, 19193581, 517666AA, 975638, 903566, 1633X, ACP010604, 2021858R, 7512676, CWK639307, 204989N, AC1204989, 2011560, 202140, 204989, 7512222, 31751601NEW, 033171, 030700, 034742ND, 034742N, 9744728809, 7512309, 42511100985, CO105111G, 4710461, 3639307, 11178356, A75638
Material	Aluminum
Item Weight	15.25 pounds
Product Dimensions	11.46 x 8.86 x 7.68 inches
Recommended Uses	Vehicle Air Conditioning Replacement
Power Source	Engine Powered
Special Feature	Silent Operation
Included Components	A/C Compressor with Clutch

WARRANTY INFORMATION

For specific warranty details regarding your Torchbeam AC Compressor with Clutch, please refer to the warranty documentation included with your purchase or contact Torchbeam customer support directly. Warranty terms typically cover manufacturing defects and material flaws under normal use and service.

CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to report an issue, please contact Torchbeam customer support. You can typically find contact information on the product packaging, the official Torchbeam website, or through the retailer where the product was purchased.

For additional resources and product information, visit the official [Torchbeam Store on Amazon](#).