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› TadaMark A/C Air Conditioner Compressor Clutch User Manual

TadaMark 8ACC002-max



A/C Air Conditioner Compressor Clutch User Manual

Brand: TadaMark | Model: 8ACC002-max

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your new TadaMark A/C Air Conditioner Compressor Clutch. Designed for specific Acura and Honda models, this component is crucial for your vehicle's air conditioning system, ensuring efficient cooling and comfortable driving. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product and vehicle:

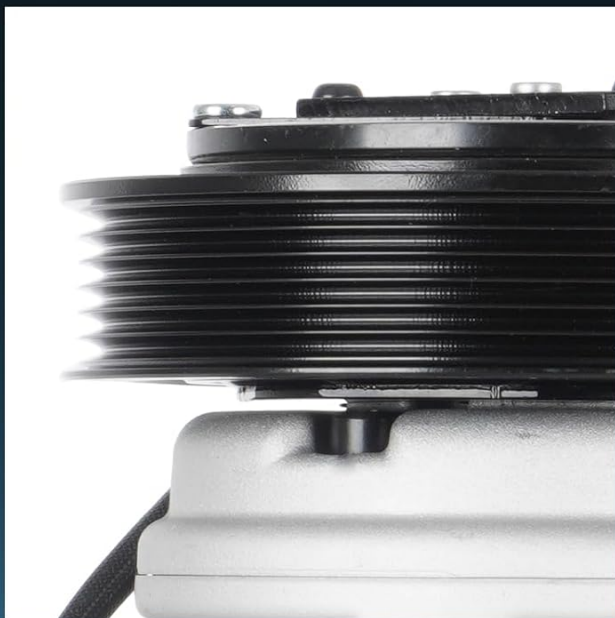
- Installation should be performed by a qualified technician.
- Disconnect the vehicle's battery before beginning any work on the A/C system.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- The A/C system contains pressurized refrigerant. Do not attempt to discharge or service the system without proper training and equipment.
- Ensure the vehicle is on a stable, level surface and properly supported before working underneath it.
- Keep all tools and parts organized to prevent accidents.

3. PRODUCT SPECIFICATIONS



Overall view of the TadaMark A/C Air Conditioner Compressor Clutch.

PRODUCT DETAILS



Detailed view of the compressor's clutch, electrical connector, and pulley system.

Technical Specifications

Attribute	Value
Compressor Type	10SR17C Compressor
Grooves	6
Pulley Diameter	135 mm
Oil Type	PAG 100
Refrigerant Type	R134a
Oil Prefilled Amount	180 ± 10 ML
Item Weight	15.49 pounds
Package Dimensions	11.02 x 8.39 x 7.48 inches

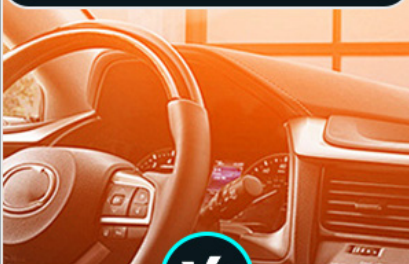
Attribute	Value
Manufacturer Part Number	8ACC002-max

Key Features:

- Manufactured and tested according to strict standards for higher durability and stability.
- Each compressor is tested for noise, leakage, and vibration.
- Pre-filled with the proper amount of oil for convenience and optimal performance.
- Features a hard-wearing piston for smooth and stable operation.
- Equipped with an oil fill-up plug for better inner oil return.
- Premium pulley design ensures ultimate durable reliability performance.

BEFORE INSTALLATION

Excessive Temperatures



Slow Cooling



Need more fuel



Comfortable Breeze



Rapid Refrigeration



Reduce fuel usage



AFTER INSTALLATION

Illustration of the high-quality and advanced internal components, including the hard-wearing piston, oil fill-up plug, and premium pulley.

4. COMPATIBLE VEHICLES

This A/C Air Conditioner Compressor Clutch is compatible with the following vehicle models:

- 2007-2013 Acura MDX 3.7L
- 2008-2017 Honda Odyssey 3.5L
- 2009-2015 Honda Pilot 3.5L
- 2009-2014 Honda Ridgeline 3.5L

Refer to the following AC Compressor Part Numbers for cross-reference:

- 38810RGLA02
- 10362850
- 10362851
- 639365
- 157334
- 158334
- 5512491
- 6512491
- TEM255315
- C1795R

5. INSTALLATION GUIDE

Proper installation is critical for the performance and longevity of your new A/C compressor. It is highly recommended that installation be performed by a certified automotive technician.

Pre-Installation Requirements and Important Notes:

- **System Cleaning:** If the old compressor was damaged (e.g., seized, contaminated), the entire air conditioning system **must** be thoroughly disassembled and cleaned. All parts must be cleaned to remove any debris or contaminants. The new compressor can only be installed after the cleaning agent is completely evaporated.
- **Component Replacement:** The condenser, expansion valve, and evaporator must be replaced if they are dirty, as they cannot be effectively cleaned. Failure to replace these dirty parts will lead to contaminants flowing into the new A/C compressor, causing premature failure.
- **Pre-loaded Oil:** Each compressor is equipped with pre-loaded refrigeration oil to prevent rust, oxidation of internal components, and to ensure proper lubrication. Do not add additional oil unless specifically required by your vehicle's service manual or a professional technician.
- **Vacuum and Recharge:** After installation, the A/C system must be properly evacuated (vacuumed) to remove all air and moisture, and then recharged with the correct type and amount of R134a refrigerant.

ATTENTION:

1. The air conditioning system must be cleaned before installing the new ac compressor.
2. The condenser, expansion valve and evaporator must be replaced if they are dirty, as they cannot be cleaned. If these dirty parts are not replaced they will flow into the new ac compressor and cause new problem.
3. Each compressor is equipped with pre-loaded refrigeration oil to prevent rust, oxidation of internal components, and to ensure proper lubrication.



Critical steps for pre-installation: cleaning the A/C system and replacing dirty components like the condenser, expansion valve, and evaporator.

HIGH QUALITY AND ADVANCED COMPONENTS

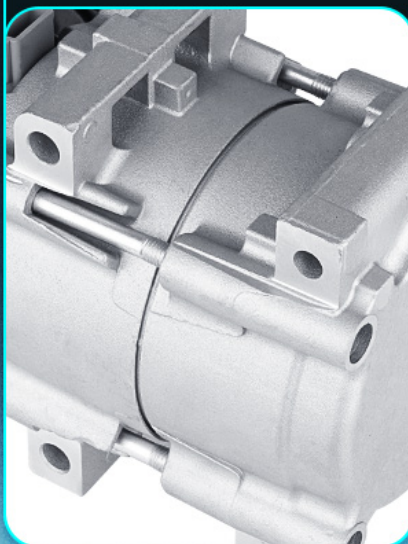


Oil Fill-Up Plug

Fill-up plug for better inner oil return

Hard-Wearing Piston

Ensure smooth and stable operation



Premium Pulley

Provide ultimate durable reliability performance

Visual comparison of common issues before installation (excessive temperatures, slow cooling, high fuel consumption) versus benefits after proper installation (comfortable breeze, rapid refrigeration, reduced fuel usage).

General Installation Steps (Consult a professional service manual for detailed vehicle-specific instructions):

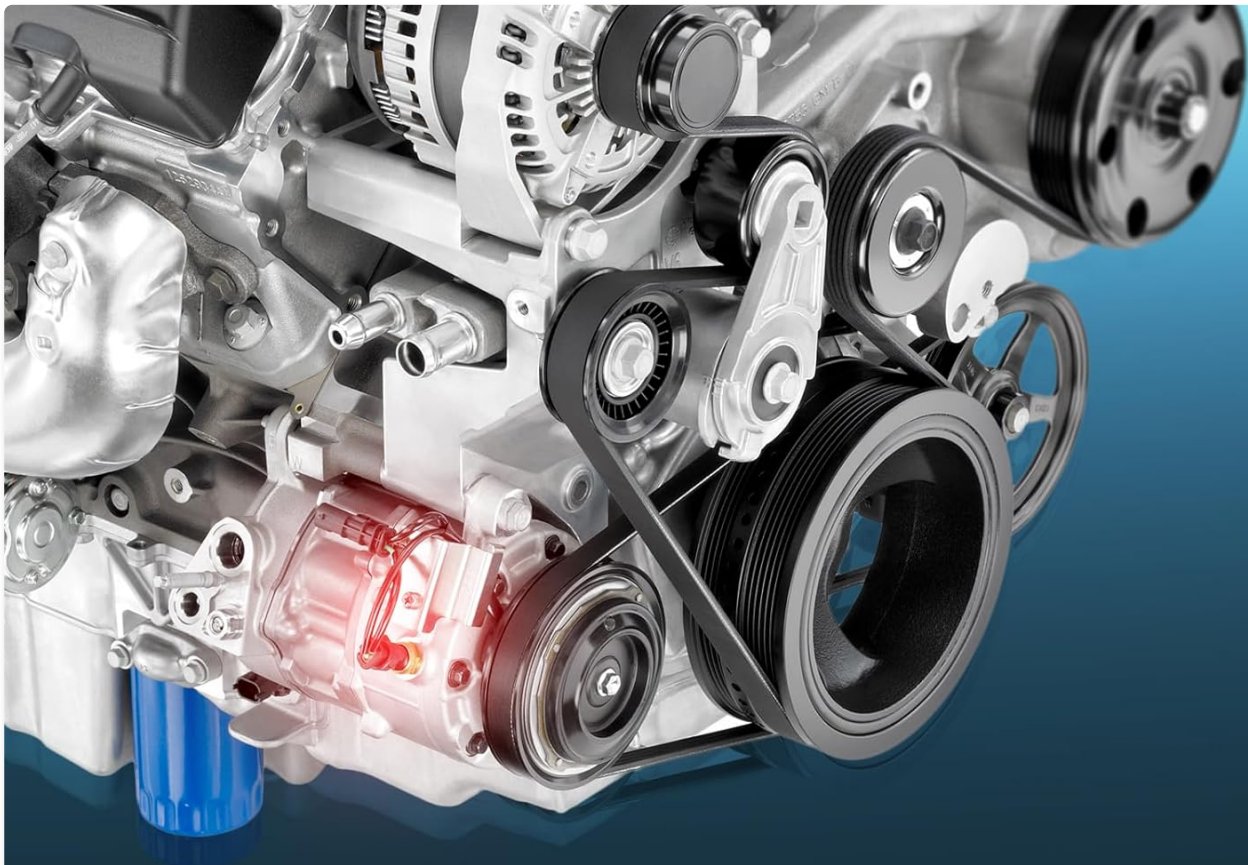
1. Safely lift and secure the vehicle.

2. Properly recover the refrigerant from the A/C system using certified equipment.
3. Remove the old A/C compressor, noting the routing of belts and connections.
4. Perform necessary system flushing and component replacement as outlined in the pre-installation notes.
5. Install the new TadaMark A/C compressor, ensuring all mounting bolts are torqued to manufacturer specifications.
6. Reconnect all electrical connectors and hoses. Replace O-rings as necessary.
7. Reinstall the serpentine belt, ensuring proper tension.
8. Evacuate the A/C system for at least 30-45 minutes to remove all moisture.
9. Recharge the system with the correct amount of R134a refrigerant.
10. Start the engine and test the A/C system for proper operation and leaks.

6. OPERATING PRINCIPLES

The A/C compressor is the heart of your car's refrigeration system. It plays a vital role in regulating the temperature inside your vehicle's cabin.

- The compressor compresses the refrigerant gas, increasing its pressure and temperature.
- This high-pressure, high-temperature gas then flows to the condenser, where it releases heat and condenses into a liquid.
- The liquid refrigerant then passes through an expansion valve, which reduces its pressure and temperature, causing it to vaporize in the evaporator.
- As the refrigerant vaporizes in the evaporator, it absorbs heat from the air passing over the evaporator fins, thus cooling the air that enters the cabin.
- The cooled, low-pressure gas then returns to the compressor to repeat the cycle.
- An efficiently operating compressor effectively reduces engine load, contributes to lower fuel consumption, and saves energy.



A/C COMPRESSOR WITH CLUTCH

1. The heart of car's refrigeration system, regulating the temperature
2. Compress the refrigerant allowing it to circulate and change temperature
3. Effectively reduce engine load, reduce fuel consumption and save energy

Diagram illustrating the core function of the A/C compressor in the refrigeration cycle.

HIGH QUALITY EXHAUST



The air is fresh and odorless



Steady and smooth air discharge



Quiet, no abnormal noise



Depiction of fresh, odorless, steady, and smooth air discharge from the vehicle's vents, indicating proper A/C system operation.

7. MAINTENANCE

To ensure the long-term performance and efficiency of your A/C system and compressor, consider the following maintenance tips:

- **Regular System Checks:** Have your A/C system inspected annually by a qualified technician to check refrigerant levels, hose integrity, and overall system health.
- **Cabin Air Filter:** Replace your cabin air filter regularly (typically every 12,000 to 15,000 miles or as per your vehicle's manual) to ensure good airflow and prevent debris from entering the system.
- **Run A/C Periodically:** Even in cold weather, run your A/C system for a few minutes once a month to keep the compressor seals lubricated and prevent refrigerant leaks.
- **Clean Condenser:** Keep the condenser (located in front of the radiator) free of leaves, dirt, and other debris to ensure proper heat dissipation.

8. TROUBLESHOOTING

If you experience issues with your A/C system after installing the new compressor, refer to the table below for common problems and potential solutions. For complex issues, consult a professional automotive technician.

Common Issues and Solutions

Problem	Possible Cause	Solution
A/C not blowing cold air	Low refrigerant, system leak, faulty expansion valve, clogged condenser, electrical issue.	Check for leaks, recharge refrigerant, inspect/replace expansion valve or condenser, check electrical connections.
Compressor not engaging (clutch not spinning)	Low refrigerant pressure, faulty clutch relay/fuse, wiring issue, faulty pressure switch, seized compressor.	Check refrigerant level, inspect fuses/relays, check wiring, test pressure switch, verify compressor spins freely.
Unusual noises from compressor	Insufficient lubrication, worn bearings, internal damage, loose mounting.	Check oil level, inspect for loose components, professional diagnosis may be required.
A/C smells musty or moldy	Bacterial growth in evaporator, dirty cabin air filter.	Replace cabin air filter, use an A/C system cleaner/deodorizer.

9. WARRANTY AND SUPPORT

Your TadaMark A/C Air Conditioner Compressor comes with a **one-year guarantee** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service.

The warranty does not cover damage resulting from improper installation, accident, misuse, abuse, neglect, unauthorized repair or modification, or normal wear and tear.

For any questions, concerns, or warranty claims, please feel free to contact us via message. Our customer service team is dedicated to assisting you and ensuring your satisfaction.

Contact Information:

Online Message System (e.g., Amazon messaging for purchases made on Amazon)

Visit the [TadaMark Store on Amazon](#) for more information and support resources.