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Seapple 425-S62-3321 SD5H14

A/C Compressor 425-S62-3321 SD5H14 User Manual

For Komatsu Dump Trucks HD325-7, HD325-7R, HD405-7, HD405-7R, HD785-7, HM350-2, HM350-2R, HM400-2, HM400-2R

1. Product Overview

This manual provides essential information for the proper installation, operation, and maintenance of the Seapple A/C Compressor, part number 425-S62-3321 SD5H14. This compressor is designed as a direct replacement for specific Komatsu Dump Truck models, ensuring optimal performance of your vehicle's air conditioning system.

Key Features:

- Part Name: A/C Compressor
- Part Numbers: 425-S62-3321 SD5H14
- Condition: New
- Compatible with Komatsu Dump Truck HD325-7, HD325-7R, HD405-7, HD405-7R, HD785-7, HM350-2, HM350-2R, HM400-2, HM400-2R



Figure 1: Front view of the A/C Compressor, showing the main body and pulley assembly.

2. Installation and Setup

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

Important Considerations Before Installation:

- **System Flush:** The entire A/C system (condenser, evaporator, lines) must be thoroughly flushed to remove old oil, debris, and contaminants from a previous compressor failure. Failure to do so will void the warranty and lead to premature failure of the new compressor.
- **Receiver Drier/Accumulator Replacement:** Always replace the receiver drier or accumulator when replacing the compressor. This component absorbs moisture and filters contaminants.
- **Expansion Valve/Orifice Tube Replacement:** Replace the expansion valve or orifice tube. These components can become clogged with debris and restrict refrigerant flow.
- **Proper Refrigerant and Oil:** Use the correct type and amount of refrigerant (R134a) and PAG oil specified for your vehicle's A/C system. Refer to your vehicle's service manual for exact specifications.
- **Leak Check:** After installation, perform a vacuum test and a leak check to ensure there are no leaks in the system before charging with refrigerant.



Figure 2: Side view of the A/C Compressor, highlighting the mounting brackets and electrical connection.

3. Operation

The A/C compressor is a critical component of your vehicle's air conditioning system. Its primary function is to compress the refrigerant gas, increasing its temperature and pressure, which is then sent to the condenser to dissipate heat.
Once installed and the A/C system is properly charged, the compressor will engage when the air conditioning is turned on in the vehicle cabin. You may hear a slight click as the clutch engages, and the engine RPM may momentarily increase as the compressor places a load on the engine.
Ensure your vehicle's engine is running at appropriate operating temperatures when using the A/C system. Avoid prolonged idling with the A/C on in extreme heat, as this can put undue stress on the system.

4. Maintenance

Regular maintenance of your vehicle's A/C system, including the compressor, can extend its lifespan and ensure efficient

cooling.

- **Regular Use:** Run your A/C system for at least 10-15 minutes once a month, even in cold weather. This circulates the refrigerant and oil, keeping seals lubricated and preventing component degradation.
- **Belt Inspection:** Periodically check the serpentine belt that drives the compressor for cracks, fraying, or excessive wear. Replace if necessary.
- **System Performance Check:** If you notice a decrease in cooling performance, unusual noises, or a burning smell, have your A/C system inspected by a professional immediately.
- **Refrigerant Level:** Do not attempt to "top off" refrigerant without proper equipment. An overcharged or undercharged system can damage the compressor. Always have refrigerant levels checked and adjusted by a certified technician.



Figure 3: Top view of the A/C Compressor, displaying the multi-groove pulley and the product label with serial number and refrigerant type.

5. Troubleshooting

This section provides general troubleshooting tips for common A/C system issues. For complex problems, always consult a professional technician.

Symptom	Possible Cause	Action
No cold air	Low refrigerant, faulty compressor clutch, electrical issue, clogged expansion valve.	Check refrigerant levels, inspect compressor clutch for engagement, check fuses. Professional diagnosis recommended.
Unusual noise from compressor	Worn bearings, internal damage, incorrect oil level/type, loose mounting.	Immediately turn off A/C. Have system inspected by a professional to prevent further damage.
A/C cycles on and off rapidly	Low refrigerant, faulty pressure switch, electrical issue.	Check refrigerant levels. Professional diagnosis recommended for pressure switch or electrical issues.



Figure 4: Rear view of the A/C Compressor, illustrating the refrigerant ports and their configuration.

6. Specifications

- **Part Name:** A/C Compressor
- **Part Numbers:** 425-S62-3321 SD5H14

- **Condition:** New
- **Manufacturer:** Seapple
- **Compatible Models:** Komatsu Dump Truck HD325-7, HD325-7R, HD405-7, HD405-7R, HD785-7, HM350-2, HM350-2R, HM400-2, HM400-2R
- **Refrigerant Type:** R134a (Commonly used in compatible vehicles)
- **Date First Available:** November 17, 2023

7. Warranty and Support

This Seapple A/C Compressor comes with a**6-month warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service.
Warranty Exclusions:

- Damage due to improper installation, including failure to flush the system or replace necessary components (receiver drier, expansion valve).
- Damage from incorrect refrigerant or oil type/amount.
- Damage from accidents, misuse, abuse, or unauthorized modifications.
- Normal wear and tear.

For Technical Support or Warranty Claims:
Please contact the seller, Seapple, through the platform where the purchase was made. Provide your order number, the part number (425-S62-3321 SD5H14), and a detailed description of the issue. It is recommended to have proof of professional installation for warranty claims.
Note: Please confirm according to the correct part number and not just the model number to ensure compatibility. If you are unsure, please find your engine model series number or product part number and model number and contact us to confirm before purchasing.

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This manual is for informational purposes only. Always consult a qualified professional for installation and repair.

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