

## Delphi CZ20008

# Delphi CZ20008 Distributor Instruction Manual

## 1. PRODUCT OVERVIEW

---

The Delphi CZ20008 Distributor is a critical component in an internal combustion engine's ignition system. Its primary function is to direct high voltage electrical energy from the ignition coil to the correct spark plug at the precise moment, ensuring efficient engine operation and combustion.



Image 1: The complete Delphi CZ20008 Distributor assembly. This unit is designed to precisely time and distribute ignition

## 2. PRODUCT COMPONENTS

---

The distributor assembly consists of several key components, primarily the distributor cap and the rotor.

- **Distributor Cap:** The cap houses a series of terminals. These terminals serve as connection points for the spark plug wires and the ignition coil wire. A central carbon contact within the cap transfers high voltage from the coil wire to the rotor.
- **Rotor:** The rotor is a highly conductive metal strip attached to a plastic base. It is installed on top of the distributor shaft. As the rotor spins, it distributes the high voltage energy received from the central carbon contact to the appropriate terminals inside the cap, which then send the energy to the spark plugs.



Image 2: Top view of the Delphi CZ20008 Distributor cap, showing the terminals for spark plug wires and the central coil

### 3. FUNCTION AND OPERATION

---

The distributor operates by rotating its internal rotor, which is driven by the engine's camshaft. As the rotor spins, its tip passes close to the internal contacts of the distributor cap, creating a spark gap. High voltage from the ignition coil is fed to the center of the cap, transferred to the rotor, and then discharged across this gap to the correct spark plug wire terminal. This timed discharge ensures that each cylinder receives a spark at the optimal moment for combustion.

Your browser does not support the video tag.

*Video 1: An instructional video explaining the function of a distributor, including the roles of the cap and rotor in distributing high voltage to the spark plugs.*

### 4. INSTALLATION

---

Installation of the Delphi CZ20008 Distributor requires specific automotive knowledge and tools. It is crucial to ensure correct timing and alignment for proper engine function. Incorrect installation can lead to engine misfires, reduced performance, and potential damage. It is highly recommended that installation be performed by a qualified automotive technician.

Refer to your vehicle's service manual for specific installation procedures, torque specifications, and any necessary timing adjustments.

### 5. MAINTENANCE

---

Regular inspection of the distributor cap and rotor is essential for maintaining optimal engine performance. These components are subject to wear over time due to the high voltage electrical discharges they handle.

- **Inspection:** Periodically check the distributor cap for cracks, carbon tracking (burn marks), or corrosion on the terminals. Inspect the rotor for excessive wear, burning, or damage to the metal strip. Any signs of significant wear or damage indicate a need for replacement.
- **Replacement:** Worn or damaged caps and rotors can lead to engine misfires, poor fuel economy, increased emissions, and in severe cases, prevent the engine from starting. Replace these components as a set if wear is observed.

### 6. TROUBLESHOOTING

---

Symptoms of a malfunctioning distributor, particularly a worn cap or rotor, may include:

- Engine misfires or rough idling
- Reduced engine performance
- Increased fuel consumption
- Higher exhaust emissions
- Difficulty starting the engine or a no-start condition

If these symptoms occur, inspect the distributor cap and rotor for wear and replace if necessary. Consult a qualified automotive technician for proper diagnosis and repair.

### 7. SPECIFICATIONS

---

<b>Manufacturer</b>	Delphi
<b>Brand</b>	Delphi
<b>Model</b>	Distributor
<b>Item Model Number</b>	CZ20008
<b>Manufacturer Part Number</b>	CZ20008
<b>OEM Part Numbers</b>	DA3, DA100, 301829, 690-902, 481829, 10458104, 12570425, 93441558, DST1829
<b>Item Weight</b>	2.56 pounds
<b>Product Dimensions</b>	7.4 x 5.76 x 14.25 inches
<b>Exterior</b>	Machined
<b>ASIN</b>	B000CGHVLI
<b>Date First Available</b>	November 24, 2005

## 8. WHAT'S IN THE BOX

---

The package contains one Delphi CZ20008 Distributor assembly.

## 9. WARRANTY AND SUPPORT

---

For warranty information and technical support regarding your Delphi CZ20008 Distributor, please refer to the official Delphi website or contact your authorized Delphi dealer. It is advisable to keep your purchase receipt for any warranty claims.