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WEITARI 921361FA0A

WEITARI A/C Pressure Sensor Switch Instruction Manual

Model: 921361FA0A

1. Introduction

This manual provides essential information for the proper installation, function, and maintenance of the WEITARI A/C Pressure Sensor Switch. This component is crucial for the correct operation of your vehicle's air conditioning system by monitoring refrigerant pressure.

Please read these instructions thoroughly before attempting any installation or repair to ensure safety and optimal performance.

2. Product Overview and Compatibility

The WEITARI A/C Pressure Sensor Switch (Model: 921361FA0A) is a direct replacement part designed to meet or exceed original equipment specifications. It plays a vital role in regulating the air conditioning compressor's operation based on refrigerant pressure levels.

Key Features:

- Direct replacement for specified OEM part numbers.
- Monitors A/C system refrigerant pressure.
- Ensures proper A/C compressor engagement and disengagement.
- Constructed with durable materials for reliable performance.

Compatible Part Numbers:

- 921361FA0A
- 92136-3Z600
- 92CP8-11
- 42CP8-12
- 92136-6J010
- 92136-1FA0A

- 92136-32600
- BBM461503A
- 29-30191
- 92136-6J000

Vehicle Compatibility:

This A/C Pressure Sensor Switch is compatible with a wide range of vehicles. Please verify your vehicle's specific year and model against the list below and cross-reference with the part numbers provided.

- **Infiniti:** FX35 (2003-2012), FX37 (2013), FX45 (2003-2008), FX50 (2009-2013), G20 (2000-2002), G25 (2011-2012), G35 (2003-2005), G37 (2008-2013), I30 (2000-2001), I35 (2002-2004), M35 (2009-2010), M35h (2012-2013), M37 (2011-2013), M45 (2003-2010), M56 (2011-2013), Q40 (2015), Q45 (2002-2006), Q50 (2014-2020), Q60 (2014-2019), Q70 (2014-2019), Q70L (2015-2019), QX4 (2001-2003), QX50 (2014-2017), QX56 (2004-2010), QX70 (2014-2017).
- **Nissan:** 350Z (2003-2009), 370Z (2009-2020), Altima (2002-2018), Armada (2005-2015), Cube (2009-2014), Frontier (2005-2019), GT-R (2009-2019), Juke (2011-2017), Kicks (2018-2019), LEAF (2011-2018), Maxima (2000-2020), Murano (2003-2020), NV1500 (2012-2019), NV200 (2013-2020), NV2500 (2012-2019), NV3500 (2012-2019), Pathfinder (2001-2012), Pathfinder Armada (2004), Quest (2004-2017), Rogue (2008-2019), Rogue Select (2014-2015), Sentra (2000-2019), Titan (2004-2019), Titan XD (2019), Versa (2007-2019), Versa Note (2014-2019), Xterra (2005-2015).

3. Setup and Installation

Important Safety Information: Installation of automotive parts can be complex and may require specialized tools and knowledge. If you are not confident in your ability to perform this installation, it is recommended to seek assistance from a qualified automotive technician. Always disconnect the vehicle's battery before starting any electrical work.

Tools and Materials (Typical):

- Wrench set (appropriate size for the sensor)
- Refrigerant recovery machine (if the system needs to be depressurized)
- Safety glasses
- Gloves

Installation Steps (General Guide):

1. **Locate the Sensor:** Identify the existing A/C pressure sensor on your vehicle. Its location can vary by make and model, but it is typically found on one of the A/C lines or the accumulator/drier.
2. **Depressurize A/C System (if necessary):** Some A/C pressure sensors are located in a part of the system that does not require full depressurization for replacement (e.g., on a Schrader valve). However, if the sensor is directly threaded into a high-pressure line without an isolation valve, the A/C system must be properly depressurized and evacuated by a certified technician using appropriate equipment. **Failure to do so can result in serious injury from high-pressure refrigerant.**
3. **Disconnect Electrical Connector:** Carefully disconnect the electrical connector from the old sensor.
4. **Remove Old Sensor:** Using the appropriate wrench, carefully unscrew the old pressure sensor. Be prepared for a small amount of refrigerant to escape if the system was not fully depressurized, even if an isolation valve is present.
5. **Inspect and Prepare New Sensor:** Ensure the new WEITARI sensor has an intact O-ring or gasket. Apply a small amount of refrigerant oil to the O-ring if not pre-lubricated.
6. **Install New Sensor:** Thread the new sensor into place by hand to prevent cross-threading. Once hand-tight, use a wrench to tighten it to the manufacturer's specified torque. Do not overtighten.
7. **Reconnect Electrical Connector:** Securely attach the electrical connector to the new sensor.

8. **Recharge A/C System (if depressurized):** If the A/C system was depressurized, it must be properly evacuated and recharged with the correct amount and type of refrigerant by a qualified technician.
9. **Test System:** Start the vehicle and test the A/C system for proper operation and check for any leaks.



Image 1: Main view of the WEITARI A/C Pressure Sensor Switch, showing the metal threaded base and the black electrical connector.



Image 2: Angled view of the A/C Pressure Sensor Switch, highlighting the threaded connection and the electrical plug.

4. Operating Principles

The A/C Pressure Sensor Switch continuously monitors the refrigerant pressure within the air conditioning system. This information is sent to the vehicle's engine control unit (ECU) or A/C control module.

- **Low Pressure:** If the refrigerant pressure drops below a safe operating level (indicating a leak or low charge), the sensor signals the ECU to prevent the A/C compressor from engaging. This protects the compressor from damage due to lack of lubrication.
- **High Pressure:** If the refrigerant pressure rises above a safe operating level (due to overcharging, a clogged condenser, or a faulty cooling fan), the sensor signals the ECU to disengage the compressor. This prevents damage to the A/C system components from excessive pressure.

- **Normal Operation:** Within the optimal pressure range, the sensor allows the compressor to cycle on and off as needed to maintain the desired cabin temperature.



Image 3: Close-up view of the three-pin electrical connector on the sensor, showing the numbered pins for wiring identification.

5. Maintenance

The WEITARI A/C Pressure Sensor Switch is designed for long-term, maintenance-free operation. Regular maintenance of the A/C system, such as checking refrigerant levels and inspecting for leaks, will help ensure the longevity of all components, including the pressure sensor.

- Periodically inspect the sensor and its electrical connector for any signs of corrosion, damage, or loose connections.
- Ensure the A/C system is properly charged with the correct type and amount of refrigerant. Over- or under-charging can stress the sensor and other components.

6. Troubleshooting

A faulty A/C pressure sensor can manifest in several ways. Here are common symptoms and potential causes:

Symptom	Possible Cause	Action
A/C compressor does not engage.	Low refrigerant pressure, faulty pressure sensor, electrical issue.	Check refrigerant level. Inspect sensor wiring. Test sensor for proper readings.
A/C compressor cycles on and off rapidly.	Low refrigerant charge, faulty pressure sensor, air in system.	Verify refrigerant charge. Check for leaks. Test sensor.
A/C blows warm air intermittently.	Faulty pressure sensor, intermittent electrical connection, other A/C system issues.	Inspect sensor connection. Diagnose A/C system with professional tools.
Check Engine Light (CEL) with A/C related codes.	Faulty pressure sensor, wiring issue.	Retrieve diagnostic trouble codes (DTCs). Follow vehicle-specific diagnostic procedures.

If troubleshooting steps do not resolve the issue, it is recommended to consult a certified automotive technician for a thorough diagnosis.

7. Specifications

- **Model:** 921361FA0A (also known as 42CP8-12SW)
- **Brand:** WEITARI
- **Contact Type:** Normally Open
- **Connector Type:** Molex
- **Terminal:** Screw
- **Circuit Type:** 1-way
- **Mounting Type:** Flange Mount
- **Contact Material:** Copper
- **Number of Positions:** 1
- **Control Method:** Sensor
- **Unit Count:** 1.0 Count
- **Item Weight:** 2.82 ounces
- **Package Dimensions:** 2.91 x 2.91 x 1.26 inches

8. Warranty and Support

This WEITARI A/C Pressure Sensor Switch comes with a**12-Month Warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product is free from material and workmanship flaws under normal use.

For any questions, concerns, or warranty claims, please contact WEITARI customer support directly through the Amazon Message system. Please provide your order details and a clear description of the issue for prompt assistance.

It is recommended to confirm your part picture and part numbers before purchasing to ensure compatibility and avoid incorrect orders.

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