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› [TYC](#) /

› TYC 622410 Cooling Fan Assembly Instruction Manual for Ford Escape (2008-2012)

TYC 622410

TYC 622410 Cooling Fan Assembly Instruction Manual

For 2008-2012 Ford Escape Models

PRODUCT OVERVIEW

The TYC 622410 Cooling Fan Assembly is designed as a direct replacement for the original equipment (OE) cooling fan in compatible vehicles. This assembly includes the motor, fan blades, and shroud, providing a complete unit for installation. It is engineered to meet OE performance standards, ensuring effective engine cooling.

Key features include:

- **Direct OE Replacement:** Engineered for precise fitment with OE comparable motor, mounting provisions, and wiring harness.
- **Durable Construction:** Built with high-quality PA material for enhanced heat resistance and flexibility, contributing to increased durability and reduced vibrations or noise.
- **Optimized Airflow:** Utilizes licensed Bosch/Continental VDO shroud and blade designs (where applicable) to ensure OE comparable construction and airflow efficiency.
- **Vehicle Tested:** Each design is tested on applicable vehicles prior to market release to ensure seamless integration with control modules and brushless units.

WHAT'S IN THE BOX

The package contains the following components:

- One (1) TYC 622410 Cooling Fan Assembly



Image: The complete TYC 622410 Cooling Fan Assembly, showing two fans within a black shroud.

COMPATIBILITY

This TYC 622410 Cooling Fan Assembly is compatible with the following vehicle models:

- Ford Escape (2008, 2009, 2010, 2011, 2012)

Please verify compatibility with your vehicle's specific year, make, and model before installation.

SPECIFICATIONS

Feature	Specification
Brand	TYC
Model Number	622410

Voltage	12 Volts
Wattage	80 watts
Noise Level	4 Decibels
Maximum Rotational Speed	3500 RPM
Item Weight	10 pounds
OEM Part Number	8L8Z 8C607B
ABPA Partslink Number	FO3115182
UPC	762405234496

INSTALLATION GUIDE

Important Safety Information: Before beginning any automotive repair, ensure the vehicle is turned off, the battery is disconnected, and the engine has cooled down. Wear appropriate personal protective equipment, including safety glasses and gloves. If you are unsure about any step, consult a qualified mechanic.

- Preparation:** Park the vehicle on a level surface. Allow the engine to cool completely. Disconnect the negative terminal of the vehicle's battery.
- Access the Fan Assembly:** Depending on your specific vehicle configuration, it may be necessary to remove certain components to gain access to the existing cooling fan assembly. This might include radiator hoses or other obstructions. Some users have reported successful installation without removing the front bumper.
- Disconnect Wiring:** Locate and disconnect the electrical connector(s) attached to the old cooling fan assembly.

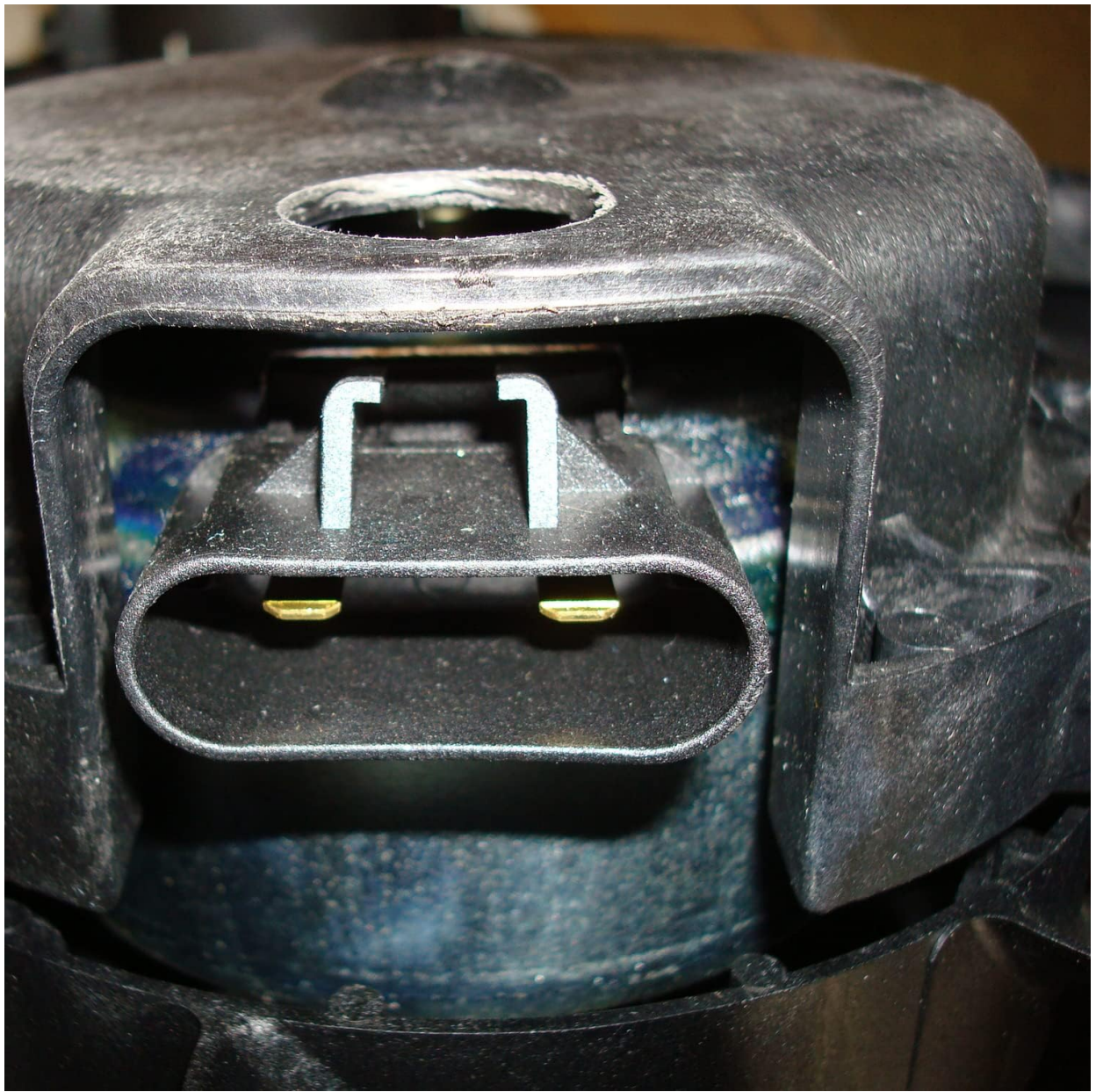


Image: Close-up view of the electrical connector on the cooling fan assembly, showing the two metal pins.

4. **Remove Old Assembly:** Unbolt or unclip the old cooling fan assembly from its mounting points. Carefully remove it from the engine bay.
5. **Install New Assembly:** Position the new TYC 622410 Cooling Fan Assembly into the engine bay. Ensure all mounting points align correctly. Secure the assembly using the original bolts or clips. The design ensures a direct OE replacement fitment.
6. **Connect Wiring:** Reconnect the electrical connector(s) to the new cooling fan assembly. Ensure a secure connection.

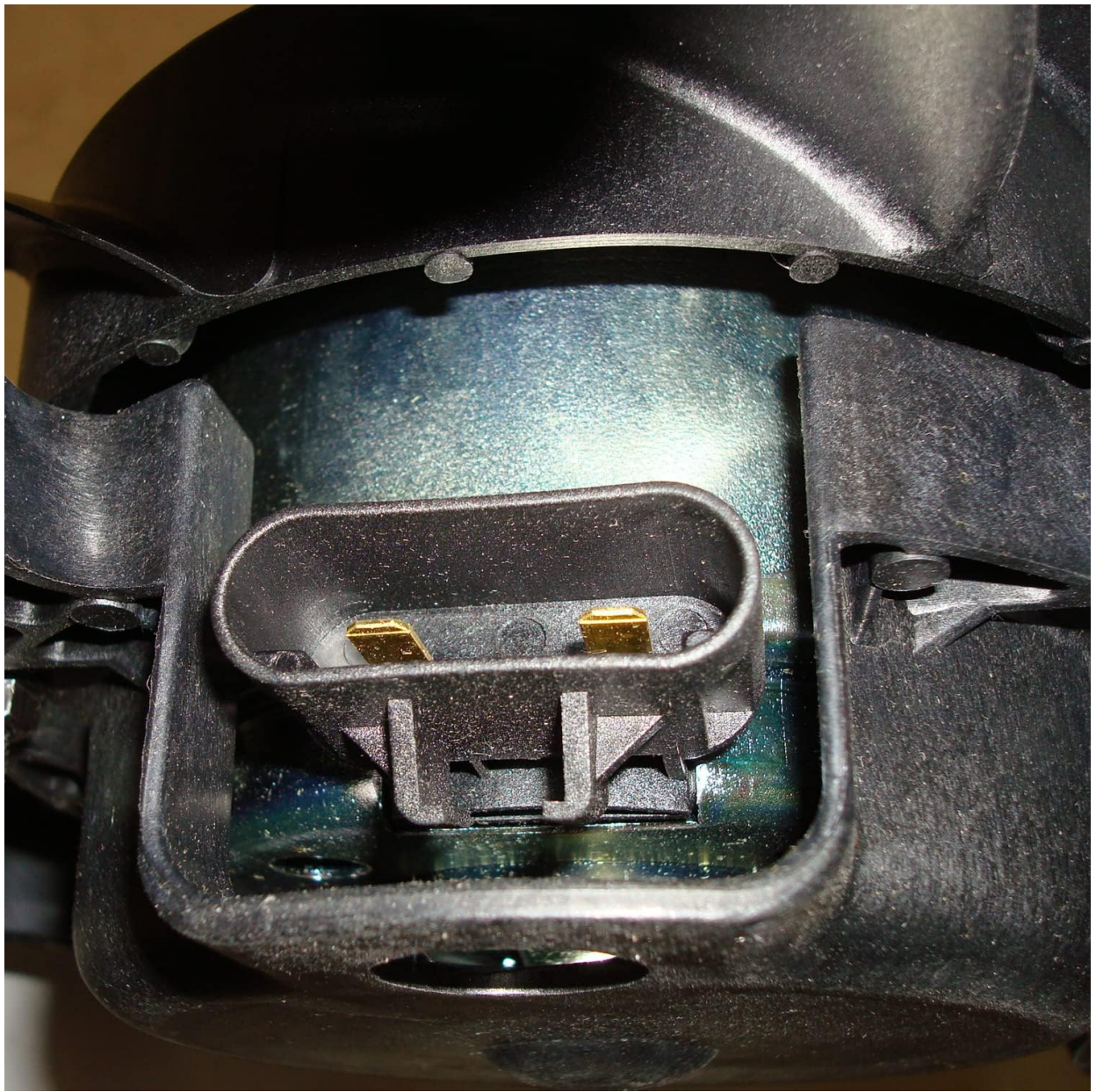


Image: Another perspective of the electrical connector, showing its integration with the fan motor housing.

7. **Reassemble Components:** Reinstall any components that were removed for access, such as radiator hoses.
8. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
9. **Test Operation:** Start the vehicle and allow the engine to reach operating temperature. Verify that the cooling fan operates correctly when needed (e.g., when the engine gets hot or the air conditioning is turned on). Check for any unusual noises or vibrations.

OPERATING INSTRUCTIONS

The TYC 622410 Cooling Fan Assembly operates automatically, controlled by the vehicle's engine management system. Its primary function is to draw air through the radiator and condenser to dissipate heat from the engine coolant and the air conditioning refrigerant.

- The fan will activate when the engine coolant temperature reaches a predetermined level.
- The fan may also activate when the air conditioning system is engaged to assist in cooling the condenser.
- Normal operation may involve the fan cycling on and off as needed to maintain optimal engine temperature.

Listen for the fan engaging and disengaging. While the unit is designed for low noise (4 Decibels), a slight hum is normal during operation.

MAINTENANCE

The TYC 622410 Cooling Fan Assembly is designed for long-term, maintenance-free operation. However, periodic visual inspection can help ensure its continued performance:

- **Inspect Fan Blades:** Periodically check the fan blades for any signs of damage, cracks, or debris accumulation. Damaged blades can cause imbalance and reduce efficiency.
- **Check Shroud:** Ensure the fan shroud is intact and securely mounted. A damaged or loose shroud can affect airflow and fan performance.
- **Wiring Inspection:** Verify that the electrical connections are secure and free from corrosion or damage.
- **Cleanliness:** Keep the radiator and condenser fins clear of leaves, dirt, and other obstructions to allow for optimal airflow through the fan assembly.

Do not attempt to lubricate the fan motor, as it is a sealed unit.

TROUBLESHOOTING

If you experience issues with your cooling fan assembly, consider the following common troubleshooting steps:

- **Fan Not Activating:**
 - Check the vehicle's fuses related to the cooling fan.
 - Verify the electrical connection to the fan assembly is secure.
 - For some Ford Escape models (e.g., 2009 3.0L AWD), there are two relays for high speed and A/C located above the fan on the frame, not in the main fuse box. Inspect these relays for proper function.
 - Ensure the engine coolant temperature sensor is functioning correctly, as it triggers fan operation.
- **Excessive Noise or Vibration:**
 - Inspect fan blades for damage or foreign objects lodged within the shroud.
 - Ensure the fan assembly is securely mounted and all bolts are tightened.
- **Engine Overheating:**
 - If the fan is not running, refer to "Fan Not Activating" steps.
 - Check coolant levels and ensure there are no leaks in the cooling system.
 - Ensure the radiator and condenser are free of obstructions.

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

WARRANTY AND SUPPORT

For specific warranty information regarding your TYC 622410 Cooling Fan Assembly, please refer to the documentation provided with your purchase or visit the official TYC website. TYC products are designed for durability and performance, backed by manufacturer support.

For technical assistance or further inquiries, please contact TYC customer service through their official channels.

[Visit the TYC Store on Amazon](#)

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