

Intake Air Distribution and Filtering - 2.0L EcoBlue (77kW/105PS) (YL)/2.0L EcoBlue (96kW/130PS) (YM)/2.0L EcoBlue (125kW/170PS) (YN) - Intake Air Distribution and Filtering



Diagnosis and Testing

General Equipment

Ford diagnostic equipment

Inspection and Verification

1. Verify the customer concern.
2. Visually inspect for obvious signs of mechanical or electrical damage.

VISUAL INSPECTION CHART

Mechanical	Electrical
• Air cleaner element • Air cleaner intake hose • Air cleaner outlet hose • Charge air cooler (CAC) • Charge air cooler (CAC) intake hose • Charge air cooler (CAC) outlet hose	• Fuse(s) • Relay(s) • Wiring harness • Electrical connector(s) • Mass air flow and temperature (MAFT) sensor • Intake air temperature (IAT) sensor

3. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step.
4. If the cause is not visually evident, verify the symptom and refer to the Symptom Chart.

Symptom Chart

Symptom	Possible Sources	Action
Excessive intake air noise	* Detached air cleaner hose(s). * Detached turbocharger hose(s). * Detached charge air cooler hose(s).	* CHECK the hose(s) for security and leaks to atmosphere. INSTALL new intake air components as necessary. TEST the system for normal operation.
Oil in the air intake system	* Blocked or damaged positive crankcase ventilation (PCV) valve. * Blocked or damaged PCV pipe(s)/hose(s). * Blocked or damaged crankcase vent oil separator.	* REFER to: Engine Emission Control (303-08A Engine Emission Control, Diagnosis and Testing).
	* Turbocharger.	* REFER to: Turbocharger (303-04C Fuel Charging and Controls - Turbocharger, Diagnosis and Testing).
Water in the air cleaner	* Air intake pipe splash shield.	* CHECK the air intake pipe splash shield for correct installation and alignment. REPAIR/INSTALL the air intake pipe splash shield as necessary. TEST the system for normal operation.
	* Blocked air cleaner drain.	* CHECK the air cleaner drain for blockage. TEST the system for normal operation.
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Engine lacks power	Air cleaner element blocked.	INSPECT the air cleaner for signs of blockage. INSTALL a new air cleaner element as necessary.
	* CAC pipe(s).	* INSPECT the CAC pipes for damage. INSTALL a new CAC pipe(s) as necessary.
	* CAC blocked.	* INSPECT the CAC for blockage. INSTALL a new charge air cooler as necessary. REFER to: Charge Air Cooler (CAC) (303-12A Intake Air Distribution and Filtering, Removal and Installation).
	* Fuel charging and controls	* REFER to: Fuel Charging and Controls (303-04A Fuel Charging and Controls, Diagnosis and Testing).
	* Turbocharger.	* REFER to: Turbocharger (303-04C Fuel Charging and Controls - Turbocharger, Diagnosis and Testing).

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