CERTAIN 2016-2017 MODEL YEAR FOCUS RS — CYLINDER HEAD GASKET REPLACEMENT

OVERVIEW

In some of the affected vehicles, the cylinder head gasket may develop a coolant leak into the engine combustion chamber. A leaking cylinder head gasket may exhibit noticeable white smoke and/or low engine coolant level without an external leak. Dealers are to pressure test the cooling system and replace the cylinder head gasket. Based on test results, some vehicles may require a new cylinder head assembly.

SERVICE PROCEDURE

Recommended Tool List:

General Tools	Push-Pin Removal Tool
1/4" & 3/8" Drive Ratchet (Hand and Power Tool)	Magnet
1/4" Drive 8mm and 10mm Deep Sockets	Utility Knife
1/4" Drive 7mm, 8mm and 10mm Shallow Sockets	**General Equipment**
1/4" Drive 8mm and 10mm Universal Sockets	Two Jaw Puller
1/4" Drive 8mm Mid-Length Socket	Fluid Container
1/4" Drive 6 in (15 cm) and 1 in (25 mm) Extensions	Floor Jack
1/4" Drive E8 Inverted Torx® Socket	Universal Pulley Holder
1/4" Drive Torque Wrench	**Special Tools**
3/8" Drive 13mm and 18mm Deep Sockets	303-1565 Alignment Tool, Camshaft TKIT-2010C-FLM
3/8" Drive 10mm and 13mm Mid-Length Sockets	303-507 Timing Peg, Crankshaft TDC TKIT-2001N-FLM TKIT-2001N-ROW
3/8" Drive T50 Torx® Bit	Cooling System Vacuum Tester and Refiller
3/8" Drive 6 in (15 cm) Extension	Cooling System Pressure Tester
3/8" Drive Torque Wrench	
1/2" Drive Flex Head Ratchet	
1/2" Drive T55 Torx® Socket	
1/2" Drive 3 in (8 cm) Extension	
1/2" Drive Torque Wrench	
17mm Open End Wrench	
15mm Box End Wrench	
12 in (30 cm) Pry Bar	
Pliers	
Trim Tool	

WARNING: Always allow the engine to cool before opening the cooling system. Do not unscrew the coolant pressure relief cap when the engine is operating or the cooling system is hot. The cooling system is under pressure; steam and hot liquid can come out forcefully when the cap is loosened slightly. Failure to follow these instructions may result in serious personal injury.

NOTICE: When removing or installing the cylinder head, use care to prevent excessive movement of the turbocharger. Excessive movement may cause damage to the turbocharger oil return tube resulting in an engine oil leak.

IMPORTANT! During cylinder head removal and installation or replacement, it is required to replace all parts/seals/gaskets that are included in the service kit, even if WSM allows reuse of the component.

IMPORTANT! When removing and installing the cylinder head, tilt the front of the cylinder head upward and off of the dowel pins, use caution to not damage or scrape the cylinder head, engine block or head gasket when performing this procedure, click the video icon for an demonstration of this procedure.

1. Install a coolant pressure tester with adapter onto the degas bottle. Pressurize to 138 kPa (20 psi). Once stabilized, pressure should hold at 138 kPa (20 psi) for a minimum of 5 hours.

    - If pressure drop over 5 hours **exceeds 27.57 kPa (4 psi)**, proceed to Step 2.
    - If pressure drop **is less than 27.57 kPa (4 psi)**, replace cylinder head gasket only, following the WSM procedures in Section 303-01D.

2. Remove the spark plugs following WSM procedures in Section 303-07D.

3. Using a bore scope, check for evidence of coolant in any of the cylinders.

    - If coolant is found in any of the cylinders replace the cylinder head and gasket, following the WSM procedures in Section 303-01D.
    - If coolant is not found in any of the cylinders, replace the cylinder head gasket only, following the WSM procedures in Section 303-01D.

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