



SERVICE ENGINE SOON (MIL) – RDME FC 124301/124302

MODEL

I01 (i3 REx)		
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SITUATION

Malfunction indicator light illuminated.

Fuel-air mixture error codes in the range extender digital motor electronics (RDME).

CAUSE

Possible hardware defect of:

- The oxygen sensor before catalytic converter.
- The fuel injectors.

CORRECTION

Replace oxygen sensor before catalytic converter and injectors.

PROCEDURE

For conditions that are similar to the situation described:

Read out the fault memory (FM) of the vehicle with ISTA.

Are one or more of the following fault codes (FC) entered in the fault memory of the range extender digital motor electronics (RDME)?

- **124301 - Mixture fine control: Fuel-air mixture too lean**
- **124302 - Mixture fine control: Fuel-air mixture too rich**

YES - Replace the oxygen sensor before catalytic converter and the fuel injectors according to repair instructions REP “11 78 510 - Replacing oxygen control sensors (W20)” & “13 64 501 - Removing and installing/replacing a fuel injector (I01).”

NO – continue diagnosis with ISTA.

PARTS INFORMATION

Part number	Description	Quantity
11 78 8 603 903	Oxygen Sensor	1
13 53 8 535 876	Injection valve	2
13 64 1 437 487	O-ring	1
13 64 7 531 313	O-ring	1

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks or the BMW Certified Pre-Owned Program.

Defect Code	1178021400		
Labor Operation:	Labor Allowance:	Description:	
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Main work)	
Or:			
00 00 556	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Plus work)	
And:			
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD 2 as Charging battery)	
And:			
13 64 541	Refer to KSD2	Removing and installing or replacing all fuel injector valves (includes removing and installing intake manifold)	
And:			
00 50 000	1 FRU	Work time to replace oxygen sensor (intake manifold removed)	

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead.

Refer to KSD2 for the corresponding flat rate unit (FRU) allowances.

Work time labor operation code 00 50 000 is not considered a Main labor operation. Also, since the “work time” FRU allowance to be claimed is specified, a separate punch time is not required.

Other Repairs

If other or additional work is performed as a result of performing the ISTA diagnostics and related test plans:

- When covered under an applicable limited warranty, claim these repairs using the applicable defect code and labor operations in KSD2.

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