

**SUBJECT****DDE Fault Codes 4882 and 4B82 for EGR Air Mass Plausibility****MODEL**

E70 (X5 xDrive35d)

SITUATION

The Service Engine Soon light is illuminated with one or both of the following fault codes stored in the DDE:

- 4B82 - Exhaust-gas recirculation-rate control, control deviation
- 4862 - Air system, air to EGR mass flow, plausibility

CAUSE

Air mass monitoring of the EGR valve is outside allowable limits.

PROCEDURE

1. Check the function of the charge air temperature sensor through ISTA diagnosis: In the Function structure, manually select 01 Drive / Diesel electronics DDE7 US / Air mass system / Charging pressure control / Charge air temperature sensor.
2. Replace the charge air temperature sensor if the test plan indicates it is faulty.
3. Check the intake system after the turbochargers (charge air circuit) for leaks with a smoke tester. The charge air system should be free of leaks. Repair any leaks that are found.

Areas that may develop leaks:

- Crankcase ventilation heater/pipe
 - Charge air tube O-rings (air tube from the turbocharger to the intercooler and pipe from the intercooler to the EGR valve/throttle)
 - EGR cooler
 - Charge air intercooler
4. Replace the air mass sensor (HFM).

PARTS INFORMATION

Part Number	Description	Quantity
13 62 8 509 725	Hot-film air mass meter	1
13 62 7 812 741	Charge air temperature sensor (if needed)	1

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle/SAV Limited Warranty or the BMW Certified Pre-Owned Program.

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Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing “vehicle test” (with vehicle diagnosis system – checking faults)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD2 as “Charging battery”)
And as necessary:		
61 00 006	Work time (WT)	Performing vehicle diagnosis – test module

Labor operation code 00 00 006 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead.

Even though work time labor operation code 61 00 006 ends in “006,” it is not considered a Main labor operation.

Work time (WT) labor operation 61 00 006 requires an individual punch time.

And:

Claim the labor listed above with one of the following repairs as applicable:

Defect Code:	13 62 20 15 00	Charge air temperature sensor
Labor Operation:	Labor Allowance:	Description:
13 62 538	Refer to KSD2	Replace the charge air temperature sensor (if the sensor fails test)

And/or:

Defect Code:	13 62 07 15 00	Mass airflow sensor
Labor Operation:	Labor Allowance:	Description:
13 00 003	10 FRU	Work time to check function of charge air temperature sensor and smoke test intake system
and		
13 62 560	Refer to KSD2	Replace the air mass sensor (HFM)

Even though work time labor operation code 13 00 003 ends in “003,” it 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 performing the smoke test and ISTA diagnostics and related test plans result in other eligible and covered work, claim this work with the applicable defect code and labor operations listed in KSD2.

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