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绿色发展 和谐共赢

BOSCH共轨SCR系统培训

玉柴机器股份有限公司
性能与电控部
何健
2010.2

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内容

- SCR系统介绍
- OBD
- SCR诊断工具应用
- SCR常见故障分析

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SCR系统工作原理

- SCR是Selective（选择性）、Catalytic（催化）、Reduction（还原）的英文缩写。
- SCR是缺一不可的整体。
- 还原（Reduction）是目的，就是通过还原剂NH_3和NO_X进行反应，将NO_X还原成N_2和H_2O：

$$NO + NO_2 + 2NH_3 \rightarrow 2N_2 + 3H_2O$$

$$4NO + O_2 + 4NH_3 \rightarrow 4N_2 + 6H_2O$$

$$2NO_2 + O_2 + 4NH_3 \rightarrow 3N_2 + 6H_2O$$

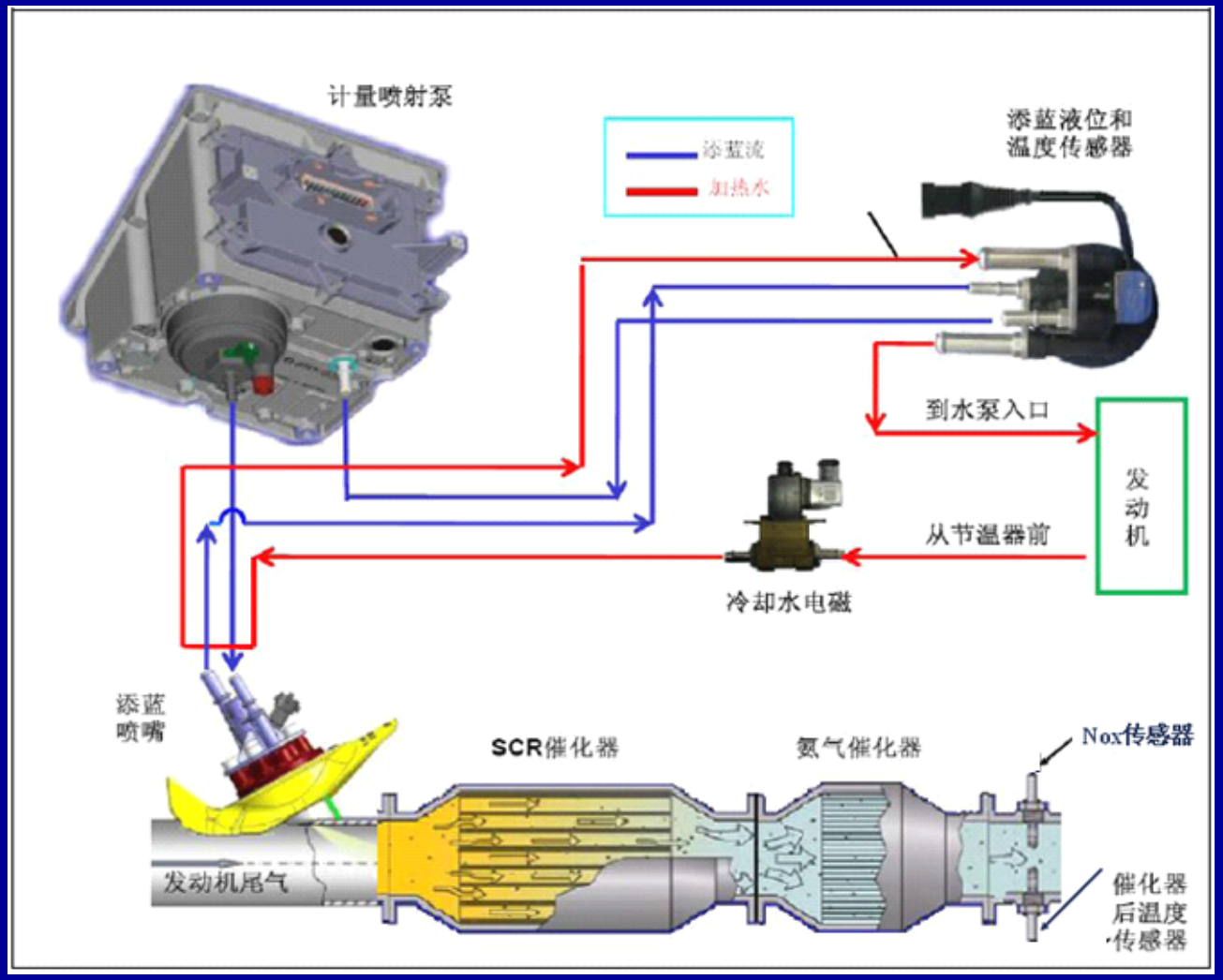
- SCR系统目前采用的还原剂是32.5%的尿素溶液。尿素NH_2CONH_2 加 H_2O 后在高温下分解成 NH_3 和CO_2：

$$NH_2CONH_2 + H_2O \rightarrow 2\ NH_3 + CO_2$$

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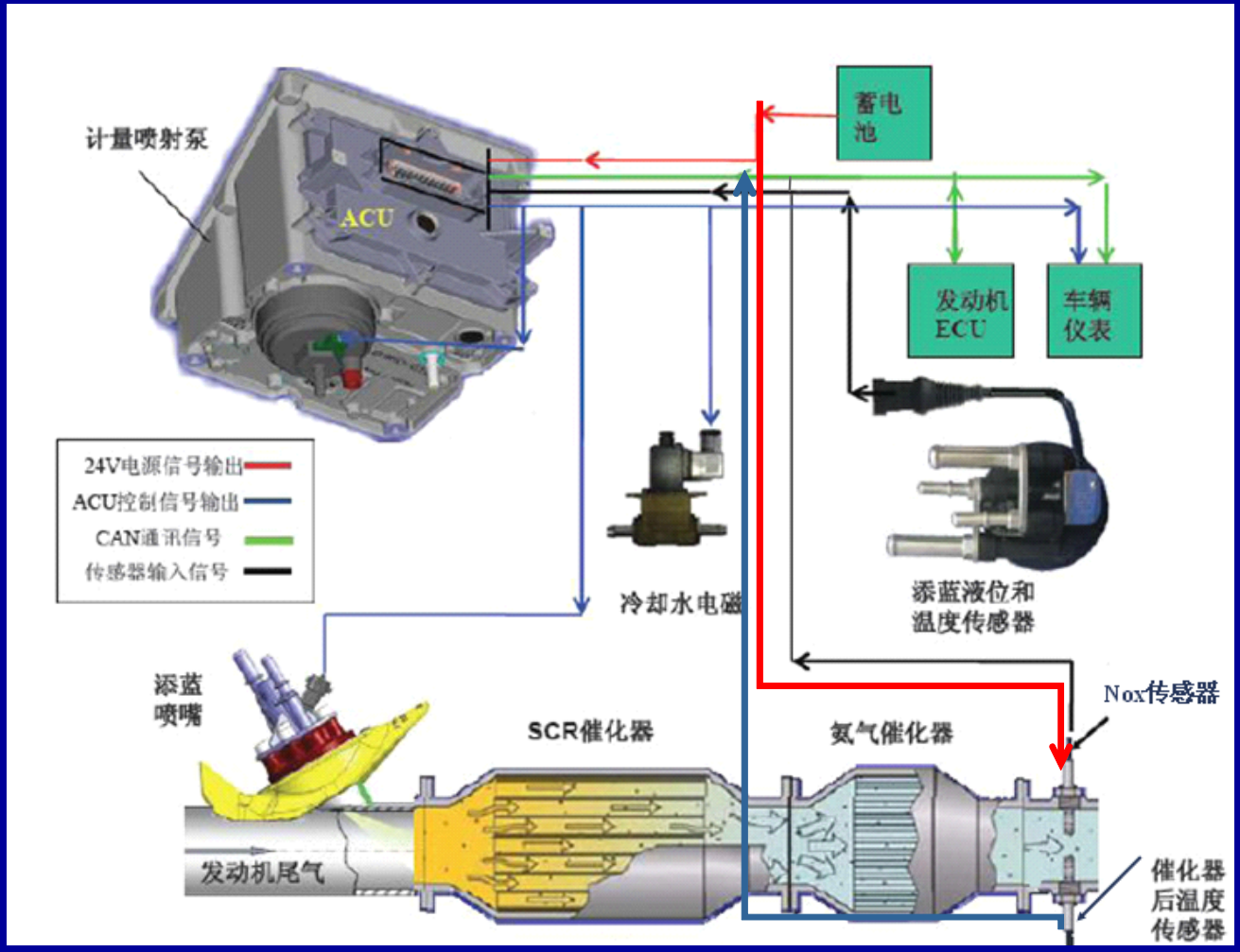
管路布置



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SCR系统工作原理

线路连接



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SCR系统零部件

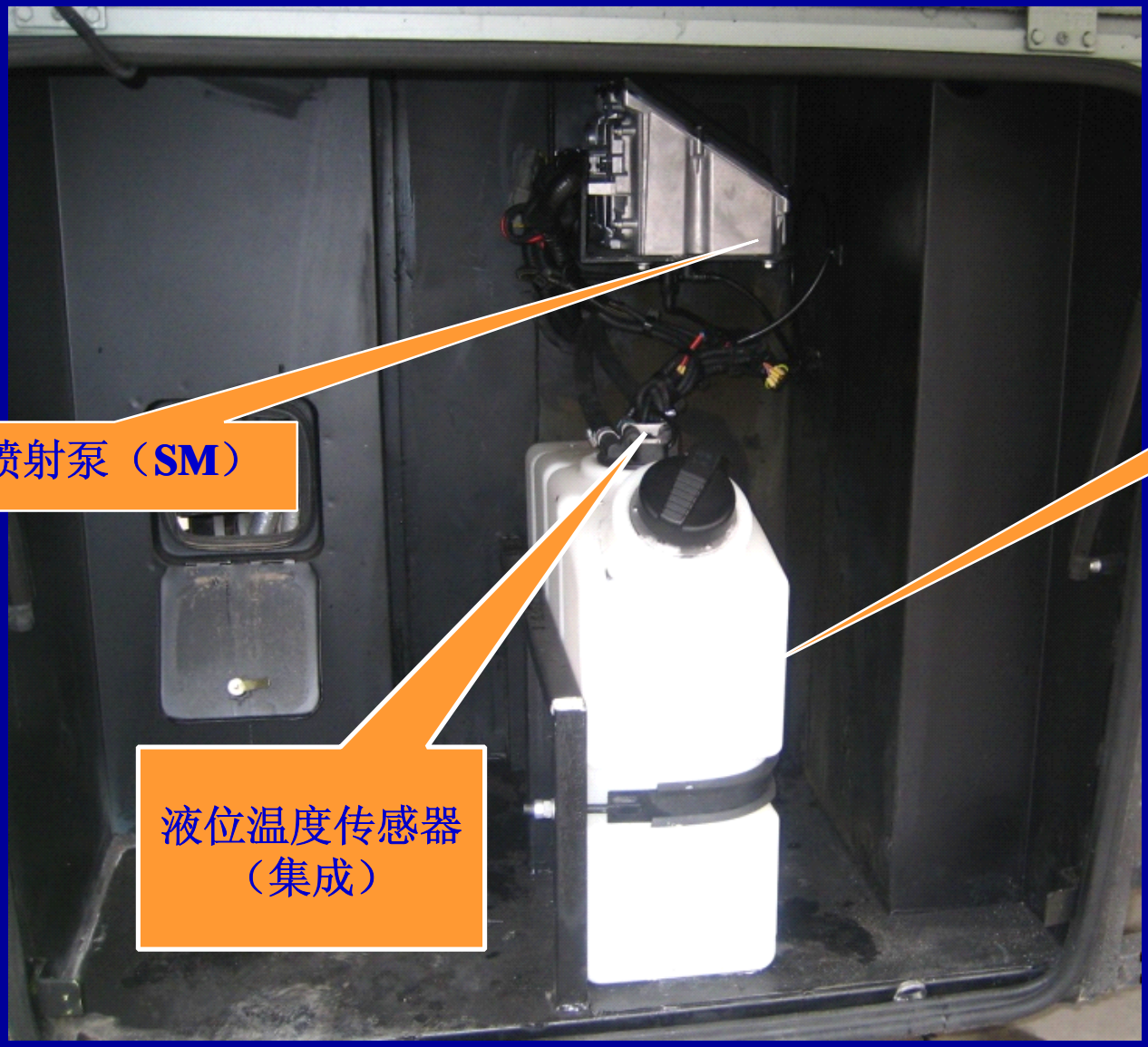
总概图



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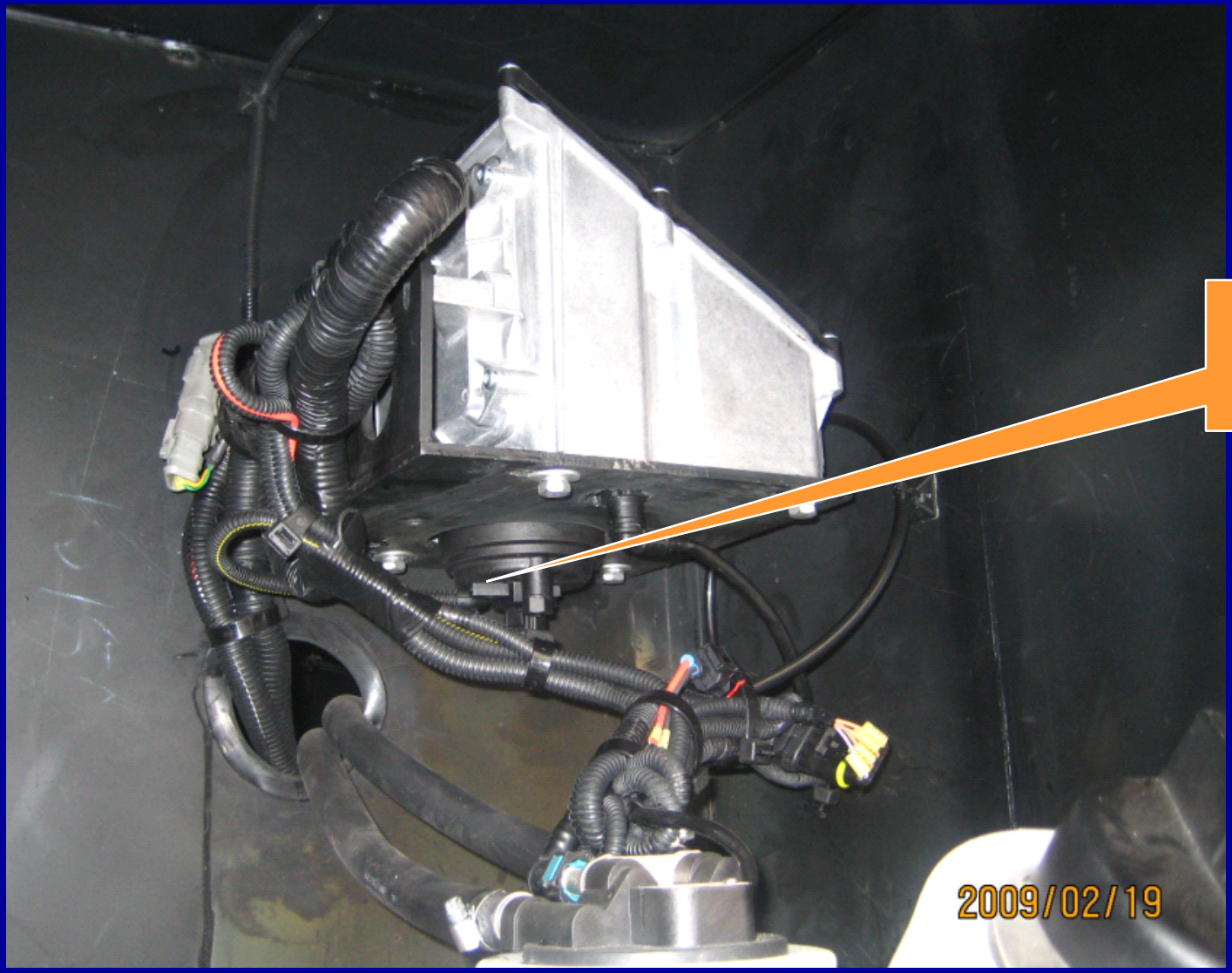
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SCR系统零部件

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