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**CO and HC contents check**

Proceed as follows to check the CO and HC contents:

- Stop the engine and start it again;
 - Turn the engine for at least two minutes at 1800/2000 rpm;
 - Check that the coolant and air temperature values of the two cylinder banks are at least 73°C and 30°C respectively;
 - Make sure that the cooling fans are on (the fans should start up at least three times if the outdoor temperature is lower than 20°C) and that the air conditioning system compressor is off (select maximum temperature);
 - Sample exhaust gas from the specific vents (**A-Fig. 1**).
- Check that the CO and HC contents are respectively:

CO < 1.0 %
HC < 500 ppm.

- | |
|---------------------|
| A. CO vent |
| B. Exhaust manifold |
| C. Catalyst |

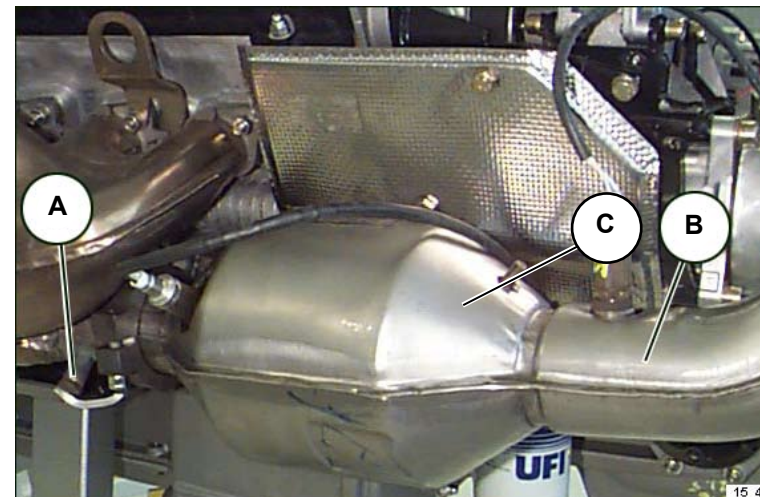


Fig.1



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- The CO content at the exhaust terminals, on the other hand, should be included in the range from 0.0 to 0.2%.
This procedure is used to check whether the catalytic converters are working, but cannot demonstrate the complete efficiency of the devices;
- Check idle speed by means of LDAS 32, making sure that the self-adjusting system is working properly;
- Turn the engine off.



Pay the utmost attention to exhaust system components while checking and adjusting the engine idle speed and checking the CO and HC contents because the parts may be very hot.



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Catalytic converter disassembly

Preliminary operations

- Lift the vehicle on the car lift (000000).
- Disassemble the black plastic rear grille (081303).
- Disassemble the engine hood (082703).
- Disassemble the silencer safety grid (025103).
- Disassemble the spoiler above the silencer (082703).
- Disassemble the silencer guard (025103).
- Disassemble the two exhaust terminals (025103).
- Disassemble the four supports that secure the silencer to the chassis (025103).
- Free the two pipes from the catalytic converters that connect the silencer to the catalytic converters themselves, removing the clamps (025103).
- Remove the four oxygen sensors (025303).
- Remove the two catalytic converter temperature sensors (025403).

Catalytic converter disassembly

1. Disassemble the heat-proof panel (A-Fig.1) under the right catalytic converter.
2. Free the catalytic converter from the rest of the engine unit by removing the clamps (B-Fig.1/2).
3. Extract the catalytic converter.



Repeat the same operations for the left catalytic converter.

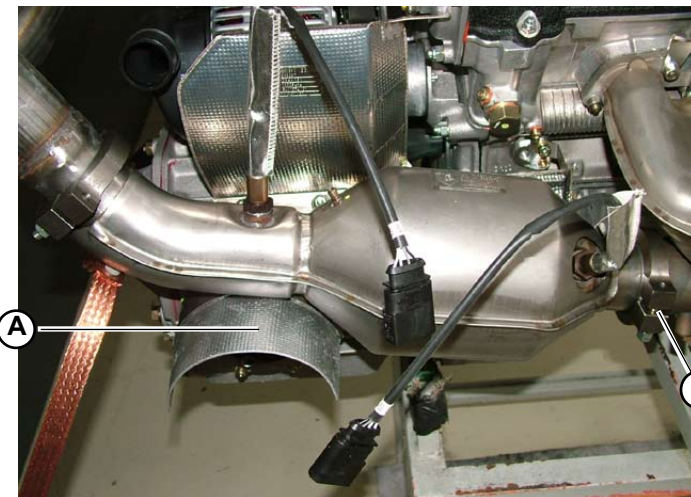


Fig.1



Fig.2



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Catalytic converters assembly

1. Connect the right catalytic converter to the rest of the engine unit using the relative clamp (**A-Fig.1/2**).
2. Assemble the heat-proof panel (**B-Fig.2**) under the right catalytic converter.



Repeat the same operations for the left catalytic converter.

- Connect the two temperature sensors to the catalytic converters (**025405**).
- Connect the four oxygen sensors to the catalytic converters (**025305**).
- Connect the silencer to the catalytic converters using the provided pipes with clamps (**025105**).
- Assemble the silencer's four supports onto the chassis (**025105**).
- Assemble the two exhaust terminals (**025105**).
- Assemble the silencer guard (**025105**).
- Assemble the rear hood located above the silencer.
- Assemble the silencer safety grid (**025105**).
- Assemble the engine hood (**082705**).
- Assemble the black plastic rear grille (**081305**).

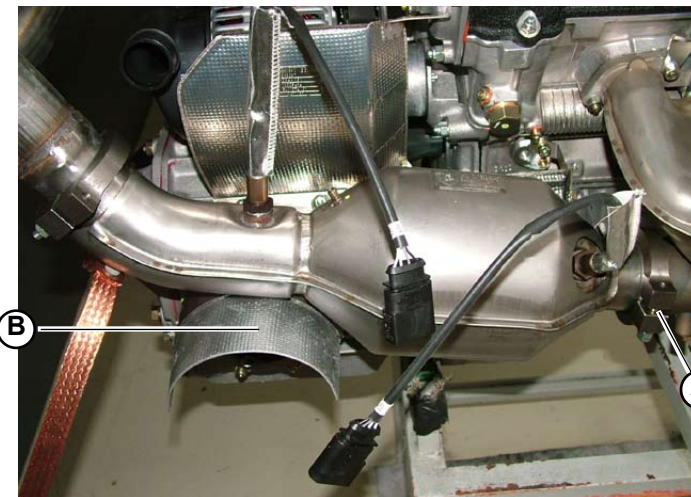


Fig.1



Fig.2