

Kart-catalytic converter-  
-exhaust silencer-system  
applicant:  
Type:

no. 1245-0337-01-FBKV  
manufacturer HJS, Menden  
9500077

TA-BC/GAR

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**SHORT TEST REPORT ABOUT A KART-CATALYTIC CONVERTER-EXHAUST  
SILENCER SYSTEM**

**test report no. 1245-0337-01 FBKV**

**Applicant:** manufacturer HJS Fahrzeugtechnik GmbH  
D - 58706 Menden

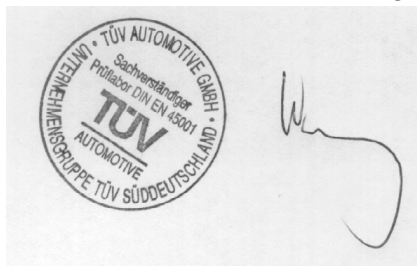
**Test sample:** Kart-Catalytic converter exhaust silencer system consisting of  
an ASN (DMSB) homologated catalytic converter type ONS  
(DMSB) 3510-40, integrated within the exhaust tube, with  
behind situated exhaust silencer based on absorption principle  
according HJS drawing no. 9500074

**Tests carried out:** The sound of a Rimo BK-1 Karts with Honda GX200 RHQ4  
engine was measured according the passing methode  
described in 70/157/EEC (microphone distance to the vehicle  
longitudinal axis 7,5 m) at the Beule outdoor course near  
Hagen and at the indoor Kart hall in Gevelsberg. The test were  
carried out in comparison between Honda-OEM silencer and  
HJS system.

**Result of passing  
procedure:** with Honda-OEM silencer:  
81 decibel / dB(A) outdoor, 80 dB(A) indoor  
with HJS-catalytic converter-silencer system:  
79 dB(A) outdoor, 78 dB(A) indoor  
(results average of each 6 measurements)  
The test results also apply to Karts with Honda GX 120/160  
engines.

**Estimation:** The measured sound level reduction of 2 dB is also audible  
subjectively w/o measuring device!  
remark: Two sound sources, each with sound level of 80 dB,  
have together a sound level of 83 dB, three decibel more.

**Remarks:** Informations about the exhaust emission rates and pollution  
reduction percentages compared with Honda OEM equipment  
is described in the ASN (DMSB) homologation.



Officially recognized expert  
Obering. Dipl.-Ing. K. Wartenberg

Garching, 24-09-2002 war/d