



CERTIFIKAT O ECE-HOMOLOGACIJI
ECE COMPONENT TYPE-APPROVAL CERTIFICATE

Sporočilo o podeljeni homologaciji za tip vozila glede na tip nadomestnega sistema za dušenje zvoka RESS ali sestavnega dela na osnovi pravilnika ECE 92 R, amandma 01, dopolnilo 00

Communication concerning approval granted of a vehicle type with regard to a type of RESS or component thereof pursuant to Regulation No. 92 R, Amendment 01, Supplement 00

Homologacijska št.: **E26 92 R 01 8067**
Approval No.:

Razširitev št.: **00**
Extension No.:

- | | |
|--|--|
| 1. Blagovno ime ali znamka motocikla:
<i>Trade name or mark of the motorcycle:</i> | Husqvarna |
| 2. Tip motocikla:
<i>Motorcycle type:</i> | Husqvarna 701 (e1*168/2013*00032*)
Husqvarna 701 (e1*168/2013*00034*)
Husqvarna 701 (e1*2002/24*0690*) |
| 3. Ime in naslov proizvajalca:
<i>Manufacturer's name and address:</i> | KTM AG
Stallhofnerstrasse 3
AT-5230 Mattighofen
Austria |
| 4. Če pride v poštev, ime in naslov predstavnika proizvajalca:
<i>If applicable, name and address of manufacturer's representative:</i> | / |
| 5. Motor
<i>Engine</i> | |
| 5.1. Proizvajalec:
<i>Manufacturer:</i> | KTM AG |
| 5.2. Tip:
<i>Type:</i> | 766
glej prilogo 2 poročila o preskusu
16-00124-CM-GBM-00
766
see enclosure 2 of the test report
16-00124-CM-GBM-00 |
| 5.3. Model:
<i>Model:</i> | / |

5.4.	Največja nazivna moč: <i>Rated maximum net power:</i>	55 kW / 8000 min ⁻¹ glej prilogo 2 poročila o preskusu 16-00124-CM-GBM-00 55 kW / 8000 min ⁻¹ see enclosure 2 of the test report 16-00124-CM-GBM-00
5.5.	Vrsta motorja: <i>Kind of engine:</i>	na prisilni vžig <i>positive-ignition</i>
5.6.	Način delovanja: <i>Cycles:</i>	štiritaktni <i>four-stroke</i>
5.7.	Prostornina valja: <i>Cylinder capacity:</i>	693 cm ³ glej prilogo 2 poročila o preskusu 16-00124-CM-GBM-00 693 cm ³ see enclosure 2 of the test report 16-00124-CM-GBM-00
6.	Menjalnik <i>Transmission</i>	
6.1.	Vrsta menjalnika: <i>Type of transmission:</i>	ročni menjalnik <i>manual transmission</i>
6.2.	Število prestav: <i>Number of gears:</i>	6 prestav <i>6 gears</i>
7.	Oprema <i>Equipment</i>	
7.1.	Dušilnik zvoka <i>Exhaust silencer</i>	
7.1.1.	Proizvajalec ali pooblaščen zastopnik (če obstaja): <i>Manufacturer or authorized representative (if any):</i>	AKRAPOVIČ D.D.
7.1.2.	Model: <i>Model:</i>	/
7.1.3.	Tip: <i>Type:</i>	M-HZAA013
	v skladu s številko risbe: <i>in accordance with drawing No.:</i>	252486
7.2.	Dušilnik zvoka na sesalni strani <i>Intake silencer</i>	originalen <i>original</i>
7.2.1.	Proizvajalec ali pooblaščen zastopnik (če obstaja): <i>Manufacturer or authorized representative (if any):</i>	/
7.2.2.	Model: <i>Model:</i>	/
7.2.3.	Tip: <i>Type:</i>	/

v skladu s številko risbe: <i>in accordance with drawing No.:</i>	/
8. Uporabljene prestave za izvajanje meritev v vožnji: <i>Gears used for test of motor cycle in motion:</i>	3-ja prestava <i>3rd gear</i>
9. Končno prestavno razmerje(a): <i>Final drive ratio(s):</i>	3,070
10. ECE homologacijska številka pnevmatik(e): <i>ECE type approval number of tyre(s):</i>	ni navedeno <i>no specification</i>
Če ni na voljo, navesti naslednje podatke: <i>If not available, the following information shall be provided:</i>	
10.1. Proizvajalec pnevmatik: <i>Tyre manufacturer:</i>	Continental
10.2. Trgovska oznaka(e) tipa pnevmatik (po oseh), (npr: tovarniška oznaka, hitrostni razred in razred nosilnosti): <i>Commercial description(s) of the type of tyre (by axle), (e.g. trade name, speed index, load index):</i>	1. os: TKC 80 Twinduro Hitrostni razred: S*, Razred nosilnosti: 54* 2. os: TKC 80 Twinduro Hitrostni razred: R*, Razred nosilnosti: 70* <i>1st axle: TKC 80 Twinduro Speed index: S*, Load index: 54* 2nd axle: TKC 80 Twinduro Speed index: R*, Load index: 70*</i>
10.3. Velikost pnevmatik (po oseh): <i>Tyre size (by axle):</i>	1. os: 90/90-21 2. os: 140/80-18 <i>1st axle: 90/90-21 2nd axle: 140/80-18</i>
10.4. Druge homologacijske številke (če so na voljo): <i>Other type approval number (if available):</i>	/
11. Mase <i>Masses</i>	
11.1. Največja tehnično dovoljena masa: <i>Maximum permissible gross weight:</i>	350 kg
11.2. Testna masa: <i>Test mass:</i>	231 kg
11.3. Razmerje moč/masa: <i>Power to mass ratio index (PMR):</i>	238,1
12. Dolžina vozila: <i>Vehicle length:</i>	2,32 m
12.1. Referenčna dolžina l_{ref} : <i>Reference length l_{ref}:</i>	2,32 m

* iz EU-WVTA
from EU-WVTA

13. Hitrost vozila za meritve v prstavi (i) <i>Vehicle speeds of measurements in gear (i)</i>	
13.1. Hitrost vozila na začetku pospeševalnega cikla (povprečje 3 pospeševanj) za prestavo (i): <i>Vehicle speed at the beginning of the period of acceleration (average of 3 runs) for gear (i):</i>	39,7 km/h
13.2. Dolžina pred začetkom pospeševanja za prestavo (i): <i>Pre-acceleration length for gear (i):</i>	0 m
13.3. Hitrost vozila v_{PP} (povprečje 3 pospeševanj) za prestavo (i): <i>Vehicle speed v_{PP} (average of 3 runs) for gear (i):</i>	49,9 km/h
13.4. Hitrost vozila v_{BB} (povprečje 3 pospeševanj) za prestavo (i): <i>Vehicle speed v_{BB} (average of 3 runs) for gear (i):</i>	59,7 km/h
14. Hitrosti vozila pri meritvah v prestavi (i+1) (če pride v poštev) <i>Vehicle speeds of measurements in gear (i+1) (if applicable)</i>	
14.1. Hitrost vozila na začetku pospeševalnega cikla (povprečje 3 pospeševanj) za prestavo (i+1): <i>Vehicle speed at the beginning of the period of acceleration (average of 3 runs) for gear (i+1):</i>	ne pride v poštev <i>not applicable</i>
14.2. Dolžina pred začetkom pospeševanja za prestavo (i+1): <i>Pre-acceleration length for gear (i+1):</i>	ne pride v poštev <i>not applicable</i>
14.3. Hitrost vozila v_{PP} (povprečje 3 pospeševanj) za prestavo (i+1): <i>Vehicle speed v_{PP} (average of 3 runs) for gear (i+1):</i>	ne pride v poštev <i>not applicable</i>
14.4. Hitrost vozila v_{BB} (povprečje 3 pospeševanj) za prestavo (i+1): <i>Vehicle speed v_{BB} (average of 3 runs) for gear (i+1):</i>	ne pride v poštev <i>not applicable</i>
15. Pospeški so izračunani med linijami AA' in BB'/PP' in BB' <i>Accelerations are calculated between lines AA' and BB'/PP' and BB'</i>	
15.1. Opis delovanja naprav za stabilizacijo pospeševanja (če pride v poštev): <i>Description of functionality of devices used to stabilize the acceleration (if applicable):</i>	ne pride v poštev <i>not applicable</i>
16. Ravni hrupa v vožnji <i>Noise levels of moving vehicle</i>	
16.1. Rezultati merjenja pri polnem plinu L_{wot} : <i>Wide-open-throttle test result L_{wot}:</i>	80,8 dB(A)
16.2. Rezultati merjenja v vožnji L_{crs} : <i>Constant speed test results L_{crs}:</i>	71,9 dB(A)

16.3. Delni faktor moči k_p : <i>Partial power factor k_p:</i>	0,460
16.4. Končni rezultat merjenja L_{urban} : <i>Final test result L_{urban}:</i>	76,7 dB(A)
17. Raven hrupa v mirovanju <i>Noise level of stationary vehicle</i>	
17.1. Pozicija in smer mikrofona (skladno z dodatkom 2, Priloga 3, pravilnika ECE 41 R, amandma 04): <i>Position and orientation of microphone (according to Appendix 2 of Annex 3 of 04 series of regulation No. 41):</i>	glej točko 3.5.3. poročila o preskusu 16-00124-CM-GBM-00 <i>see point 3.5.3. of the test report 16-00124-CM-GBM-00</i>
17.2. Rezultat merjenja v mirovanju: <i>Test result for stationary test:</i>	90 dB(A) / 4000 min ⁻¹
18. Dodatne določbe za emisije hrupa: <i>Additional sound emission provisions:</i>	glej točko 3.5.3. poročila o preskusu 16-00124-CM-GBM-00 in priložene risbe <i>see point 3.5.3. of the test report 16-00124-CM-GBM-00 and attached drawings</i>
19. Referenčna skladnost podatkov v uporabi <i>In-use compliance reference data</i>	
19.1. Za meritev izbrana prestava (i) ali, izbrana lega izbirnika prestave, pri vozilih z varibalnim menjalnikom: <i>Gear (i) or, for vehicles tested with non-locked gear ratios, the position of the gear selector chosen for the test:</i>	3-ja prestava <i>3rd gear</i>
19.2. Dolžina pred začetkom pospeševanja l_{PA} : <i>Pre-acceleration length l_{PA}:</i>	0 m
19.3. Hitrost vozila na začetku pospeševalnega cikla (povprečje 3 pospeševanj) za prestavo (i): <i>Vehicle speed at the beginning of the period of acceleration (average of 3 runs) for gear (i):</i>	39,7 km/h
19.4. Raven zvočnega tlaka $L_{wot(i)}$: <i>Sound pressure level $L_{wot(i)}$:</i>	80,8 dB(A)
20. Odstopanja v umerjanju merilnika nivoja hrupa: <i>Deviations in calibration of sound level meter:</i>	< 0,2 dB(A)
21. Datum predložitve vozila v postopek homologacije: <i>Date of submission of vehicle for approval:</i>	20.07.2016

22. Tehnična služba odgovorna za homologacijske preskuse:
Technical service responsible for conducting approval tests: TÜV SÜD Auto Service GmbH
Westendstraße 199
D-80686 München
Germany
23. Datum poročila o preskusu, ki ga je izdala ta služba:
Date of test report issued by that Service: 19.12.2016
24. Številka poročila o preskusu, ki ga je izdala ta služba:
Number of test report issued by that Service: 16-00124-CM-GBM-00
25. Homologacija:
Approval: **podeljena**
granted
26. Mesto homologacijske oznake na vozilu:
Position of approval mark on the vehicle: vgravirano z laserjem / tablica
pritrjena s kovicami
engraved by laser / plate fixed with rivets
27. Kraj:
Place: 1000 LJUBLJANA
28. Datum:
Date: 22.12.2016
29. Podpis:
Signature: mag. Tomaž Svetina, univ.dipl.inž.
vodja sektorja za vozila

30. Temu sporočilu je priložen seznam dokumentov, ki so deponirani pri homologacijskem organu, ki je odobril to homologacijo in jih je na zahtevo mogoče dobiti:
glej kazalo opisne dokumentacije št. E8067 Rev.00
The list of documents deposited with the Administrative Service which has granted approval is annexed to this communication and may be obtained on request:
see index to information package No E8067 Rev.00



Ta homologacija se uporablja za tip serijsko izdelanih neoriginalnih nadomestnih sistemov za dušenje zvoka (RESS) ali njegovih sestavnih delov pod naslednjimi pogoji:

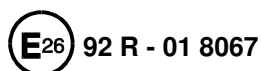
Posamezni proizvodi iz serijske proizvodnje morajo ustrezati najmanj vsem zahtevam pravilnika ECE 92 R, amandma 01, dopolnilo 00, "Enotni pogoji za homologiranje neoriginalnih nadomestnih sistemov za dušenje zvoka (RESS) za motorna kolesa, mopede in trikolesna vozila".

Priloženo poročilo o preskusu in risbe so sestavni del te homologacije.

Vsak sestavni del neoriginalnega nadomestnega sistema za dušenje zvoka, vendar ne deli in cevi za vgradnjo, mora biti čitljivo in trajno označen z:

- znamko (tovarniškim imenom ali oznako proizvajalca),
- trgovskim imenom,
- homologacijsko oznako.

Temu tipu proizvoda se dodeli naslednja homologacijska oznaka:



Homologacijska oznaka na proizvodu mora po izvedbi in velikosti ustrezati zahtevam pravilnika ECE 92 R.01.

S tem homologacijskim znakom so lahko označeni samo tisti proizvodi, ki v celoti ustrezajo homologacijski dokumentaciji.

Homologacijska oznaka na proizvodu mora biti nameščena na mestu, ki je označeno v homologacijski dokumentaciji. Mesto homologacijske oznake mora biti izbrano tako, da je oznaka jasno čitljiva tudi po vgradnji v vozilo.

Proizvod je lahko označen tudi s tujo homologacijsko ali drugo oznako, če s tem ni motena razpoznavnost in čitljivost homologacijske oznake, ki jo je dodelil slovenski homologacijski organ.

Na proizvodu ne sme biti oznak, ki bi lahko privedle do zamenjave z uradno dodeljeno oznako.

Kakršnekoli spremembe na proizvodu so dovoljene samo na podlagi posebnega dovoljenja homologacijskega organa.

Veljavnost homologacije preneha z vrnitvijo ali z odvzemom. Homologacija se odvzame, če pogoji za podelitev in obstoj homologacije ne obstajajo več, če lastnik homologacije krši obveznosti, povezane s homologacijo, oziroma če se ugotovi, da homologirani proizvod ne ustreza več veljavnim predpisom.

Proizvajalec je dolžan stalno kontrolirati kakovost homologiranega proizvoda in njegovo skladnost s homologacijsko dokumentacijo. O tej kontroli je dolžan voditi evidenco in omogočiti vpogled v zapiske nadzornemu organu, ki ga določi homologacijski organ. V primeru ugotovitve neskladnosti s homologacijsko dokumentacijo je proizvajalec dolžan o tem takoj obvestiti homologacijski organ.

Homologacijski organ lahko kadarkoli preverja pravilno izvajanje pooblastil, dodeljenih s to homologacijo, in v ta namen tudi izbira vzorce za ponovni preskus. Stroške takšnih pregledov in presoj skladnosti proizvodnje, se zaračunajo proizvajalcu.

Vsako spremembo oznake proizvajalca, naslova ali proizvodne tovarne oziroma pri homologaciji imenovane pooblaščen osebe je treba takoj sporočiti homologacijskemu organu.

Pravice, podeljene s to homologacijo, so neprenosljive. Pravice tretjih s to homologacijo niso prizadete.

V primerih, da se proizvodnja ali prodaja proizvoda ne začne v roku enega leta od podelitve homologacije, da se proizvodnja ali prodaja prekine za več kot eno leto oziroma, da se predvideva taka prekinitve, je o tem treba takoj obvestiti homologacijski organ.

O začetku proizvodnje ali začetku prodaje oziroma njihovem ponovnem začetku je treba obvestiti homologacijski organ najkasneje v enem mesecu.

Neupoštevanje zgoraj navedenih določil lahko povzroči odvzem homologacije in se kazensko preganja.

Pravno razlago v zvezi s to homologacijo lahko daje samo homologacijski organ.

22.12.2016



mag. Tomaž Svetina, univ.dipl.inž.
vodja sektorja za vozila

This Approval shall apply to a type of non-original replacement exhaust silencing systems (RESS) or its components from serial production under the following conditions:

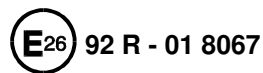
Individual products from serial production shall comply at least with all requirements set out in the Regulation No. 92 R, Amendment 01, Supplement 00 "Uniform provisions concerning the approval of non-original replacement exhaust silencing systems (RESS) for motorcycles, mopeds and three-wheeled vehicles".

The attached test report and drawings shall be a constituent part of this Approval.

Each component of the nonoriginal replacement exhaust silencing system, excluding pipes and fitting accessories, shall be marked with a readable and durable:

- *make (trade name or mark of manufacturer),*
- *commercial name,*
- *approval marking.*

This type of product shall be allotted the following approval marking:



The design and size of the approval marking shall meet the requirements of the Regulation No. 92 R.

Only products which fully comply with the approval documentation may bear the allotted approval mark.

The approval marking on the product must be attached at the place indicated in the approval documentation. Location of the approval marking shall be selected in such way that the marking is clearly readable even when installed on a vehicle.

The product may also be marked with a foreign approval or other marking, provided that the identifiability and readability of the approval marking granted by the Slovenian Type Approval Authority is not affected.

The product shall not bear any markings that may lead to confusion with the officially allotted marking.

Changes of any kind performed on the product shall be subject to special permission by the Slovenian Type Approval Authority.

The Approval will become ineffective when returned or withdrawn. The Approval shall be withdrawn: should the conditions for its granting and existence no longer exist, should the owner of the Approval break his obligations related to the Approval, or when it has been established that the approved product no longer complies with the applicable regulations.

The manufacturer shall regularly inspect the quality of the approved product as well as its conformity with the approval documentation. He shall keep record of this inspection and allow to the surveillance body appointed by the Slovenian Type Approval Authority access to the records. Should any non-conformities be found with respect to the approval documentation, the manufacturer shall immediately inform thereof the Slovenian Type Approval Authority.

Any time, the Slovenian Type Approval Authority may check the correct implementation of the authorizations appointed through this Approval, and for this purpose also select samples for a repeated test. The costs of such checks and conformity of production assessments are charged to the manufacturer.

Any changes regarding the manufacturer's marking, the address or the production plant, or the authorized person appointed through this Approval, shall be forthwith notified to the Slovenian Type Approval Authority.

The rights granted through this Approval shall be untransferrable. The rights of third persons shall not be affected through this Approval.

In the case where the production or sale of the product does not start within one year after the granting of the Approval, or the production or sale is interrupted for a period longer than one year, or such interruption is foreseen, the Slovenian Type Approval Authority shall be immediately notified.

The Slovenian Type Approval Authority shall be notified of the start of production or start of sale, or its restart, within a month's time at the latest.

Non-compliance with above stated provisions may result in withdrawal of the Approval and will be prosecuted.

Legal explanations in relation with this Approval may only be given by the Slovenian Type Approval Authority.

22.12.2016



Tomaž Svetina, M.Sc.Eng.
Head of Vehicle department



KAZALO OPISNE DOKUMENTACIJE E8067
INDEX TO THE INFORMATION PACKAGE E8067
 Revision: 00

Homologacijska številka: **E26 92 R 01 8067*00**
Approval number:

Datum izdaje: **22.12.2016**
Date of issue:

Datum razširitve homologacije: /
Date of extension of approval:

Datum zadnje spremembe: /
Date of latest amendment:

Razlog za razširitev/revizijo: /
Reason for extension/revision:

Poročilo o preskusu: **16-00124-CM-GBM-00**
Test report:

Število strani: **16**
Number of pages:

datum izdaje: **19.12.2016**
date of issue:

datum zadnje spremembe: /
date of latest amendment:

Opisni list/Tehnični opis naprave: /
Information document/Technical description of the device:

Število strani: **0**
Number of pages:

datum izdaje: /
date of issue:

datum zadnje spremembe: /
date of latest amendment:

Risba(e)¹:
Drawing(s)¹:

Število strani: **4**
Number of pages:

datum zadnje spremembe: /
date of latest amendment:

Navodila za vgradnjo in uporabo:
Mounting and handling instructions:

Število strani: **12**
Number of pages:

datum zadnje spremembe: /
date of latest amendment:

Ostala dokumentacija:
Other documentation:

Število strani: **1**
Number of pages:

Skupno število strani: 33
Total number of pages:

¹ kosovnice, slike, sheme in diagrami / ¹ bill of materials, pictures, schematics and diagrams



Akrapovič, d.d.
Malo Hudo 8A
1295 Ivančna Gorica

**SLOVENIAN TRAFFIC SAFETY AGENCY,
KOTNIKOVA ULICA 19a,
1000 LJUBLJANA,
SLOVENIA**

We, Akrapovič d.d., Malo Hudo 8a. 1295 Ivančna Gorica, Slovenia hereby ask STSA to grant approval against **ECE-R92 01** for the following product:
Exhaust system for Motorcycles:

Type: **M-HZAA013**

Version: **M-HZAA013 05T (Ti / Ti / Ca)**
M-HZAA013 05C (Ti / Ca / Ca)
M-HZAA013 02T (SS / Ti / Ca)
M-HZAA013 02C (SS / Ca / Ca)
M-HZAA013 02SS (SS / SS / Ca)
M-HZAA013 03T (SS / Ti / Ti)
M-HZAA013 03C (SS / Ca / Ti)
M-HZAA013 03SS (SS / SS / Ti)
M-HZAA013 06T (Ti / Ti / Ti)
M-HZAA013 06C (Ti / Ca / Ti)

Manufacturer: **Akrapovič d.d.**
Malo Hudo 8a
1295 Ivančna Gorica
Slovenia

We declare that we have not applied to any other Approval Authority in the EU Member States for this approval.

We have requested **TÜV SÜD Auto Service GmbH**, to carry out all testing required by the directive and/or regulation that the approval is sought against and to present the entire documentation for the approval.

Yours sincerely,

Akrapovič d.d.
Uroš Rosa, CEO



Date: 26.09.2016

AKRAPOVIČ d.d.
Malo Hudo 8a, 1295 Ivančna Gorica,
Slovenija



Techn.Bericht Nr. / *Techn. Report No.*: 16-00124-CM-GBM-00
 Hersteller / *Manufacturer*: Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica
 Slovenija
 Typ / *Type*: M-HZAA013

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PRÜFBERICHT TEST REPORT

Nr. / no. 16-00124-CM-GBM-00

über die Prüfung einer Nicht-Originalauspuffanlage oder
 von Einzelteilen hiervon als Technische Einheit für Krafträder gemäß
 ECE-R 92 Revision 1
 Einheitliche Bedingungen für die Genehmigung von nicht- originalen Austausch-
 Schalldämpferanlagen für Krafträder, Mopeds und Dreiradfahrzeuge

*about a test of a non-original exhaust system or a component
 as a separate technical unit for motorcycles according to
 ECE-R 92 Revision 1*

*Uniform provisions concerning the approval of non-original replacement exhaust silencing
 systems (RESS) for motorcycles, mopeds and three-wheeled vehicles.*

Genehmigungsstand / Approval status		
<input checked="" type="checkbox"/>	Erteilung einer Typgenehmigung <i>Granting of a type approval</i>	E26 92R-01 8067*00
<input type="checkbox"/>	Nachtrag/Änderung zur Typgenehmigung Nr. <i>Extension/correction to type approval no.</i>	

Gründe der Erweiterung / *Reasons for extension*

Es wird geändert: -
It will be changed: -

Es wird aktualisiert: -
It will be updated: -





Techn.Bericht Nr. / *Techn. Report No.*: 16-00124-CM-GBM-00
 Hersteller / *Manufacturer*: Akrapovic, Malo Hudo 8a, 1295 Ivancna Gorica
 Slovenija
 Typ / *Type*: M-HZAA013

Seite / *Page* 2/8

0. Allgemeine Angaben / General information

0.1. Fabrikmarke / *Make*: Akrapovic Exhaust System Technology

0.2. Typ / *Type*: M-HZAA013

0.2.1 Ausführungen / *Variants*

Ausführungen / <i>Variants</i>	Material / <i>Material</i>		
	Rohre / <i>Tubes</i>	Außenmantel / <i>Sleeve</i>	Endkappe / <i>End cap</i>
M-HZAA013 05 T	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>	Karbon / <i>Carbon</i>
M-HZAA013 05 C	Titan / <i>Titanium</i>	Karbon / <i>Carbon</i>	Karbon / <i>Carbon</i>
M-HZAA013 02 T	VA / <i>Stainless steel</i>	Titan / <i>Titanium</i>	Karbon / <i>Carbon</i>
M-HZAA013 02 C	VA / <i>Stainless steel</i>	Karbon / <i>Carbon</i>	Karbon / <i>Carbon</i>
M-HZAA013 02 SS	VA / <i>Stainless steel</i>	VA / <i>Stainless steel</i>	Karbon / <i>Carbon</i>
M-HZAA013 03 T	VA / <i>Stainless steel</i>	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>
M-HZAA013 03 C	VA / <i>Stainless steel</i>	Karbon / <i>Carbon</i>	Titan / <i>Titanium</i>
M-HZAA013 03 SS	VA / <i>Stainless steel</i>	VA / <i>Stainless steel</i>	Titan / <i>Titanium</i>
M-HZAA013 06 T	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>
M-HZAA013 06 C	Titan / <i>Titanium</i>	Karbon / <i>Carbon</i>	Titan / <i>Titanium</i>

Die Ausführungen unterscheiden sich in der Verwendung verschiedener Werkstoffe. Der konstruktive Aufbau ist gleich. Das akustische Verhalten ist gleichwertig.

The variants vary because different materials are used. The basic construction remains the same. The acoustic behaviour is similar.





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- 0.3. Name und Anschrift des Herstellers /
Name and address of manufacturer: Akrapovic d.d.
 Malo Hudo 8a
 1295 Ivancna Gorica
 Slovenija
- 0.4. Name und Anschrift des Beauftragten /
Name and address of authorised agent: entfällt / *not applicable*
- 1.0. Klasse der Fahrzeuge, für die die
 Anlage bestimmt ist / *Class of the
 vehicles the unit is used for*: L3e
- 1.1. Beschreibung der Fahrzeuge, für
 die die Einrichtung bestimmt ist /
*Description of the vehicles
 the unit is used for*: siehe Anlage 2 / *notice enclosure 2*
- 2. Angaben zum Prüfobjekt / *Composition of the separate technical unit***
- 2.1. Art der Technischen Einheit:
Kind of technical unit: Siehe Anlage Technische Dokumentation
See Enclosure, Technical documentation
- 2.2. Ort der Kennzeichnung/
Place of marking: Lasergravur auf Endkappe / Typschild aufgenietet
Engraved by laser / plate fixed with rivets
- 2.3. Zusammenstellung der technischen Einheit /
*Composition of the separate
 technical unit*: siehe Anlage 1 / *notice enclosure 1*
- 2.4. Lage und Richtung der Auspuffmündung:
Position and direction of the tail pipe: links seitlich nach hinten
at the left side to the rear
- 2.5. Prüfmuster eingegangen am:
Test samples submitted for testing at: 20.07.2016





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3. Prüfprotokoll / Test report

Versuchsreihe A / *Tests series A*

3.1. Fahrzeug lfd. Nr. 1) / *Vehicle no. 1)*

3.1.1. Typ / *Type*: Husqvarna 701
 3.1.1.1 Variante / *Version / Variant / Version*: B / -
 3.1.1.2 Fahrzeugkategorie / *Category*: L3e-A3
 3.1.1.3 Handelsbezeichnung / *Model*: Husqvarna 701 Enduro
 3.1.2. Hersteller / *Manufacturer*: KTM AG
 3.1.3. Genehmigungs-Nr. / *Homologation no.*: e1*168/2013*00032*
 3.1.3.1 Nachtrag bzw. Erweiterung / *Extension*: 00
 3.1.4. Fahrzeugidentifizierungsnummer /
Vehicle identification no.: VBKP37012HM781677
 3.1.5. Baujahr / *Year of manufacture*: 2016
 3.1.6. km-Stand / *Kilometers*: 435
 3.1.7. Zul. Gesamtgewicht / *total weight*: 350 kg

3.2. Antriebsmaschine / *Engine*

3.2.1. Hersteller / *Manufacturer*: KTM
 3.2.2. Typ / *Type*: 766
 3.2.3. Hubraum / *Engine capacity*: 693 cm³
 3.2.4. Höchstleistung / *engine net power*: 55 kW bei / *at* 8000 min⁻¹
 3.2.5. max. Drehmoment / *net torque*: 71 Nm bei / *at* 6750 min⁻¹

3.3. Kraftübertragung / *Transmission*

3.3.1. Art der Kraftübertragung /
Kind of transmission: mechanisch / *mechanical*
 3.3.4. Getriebe / *Gearbox*: manuell / *manual*
 3.3.5. Übersetzungsverhältnisse /
Transmission ratios:
 primär / *primary* / sekundär / *secondary* 2,194 / 3,070
 Höchstgeschwindigkeit / *Top speed*: 170 km/h
 Reifen / *Tires*: Continental TKC 80 Twinduro
 vorne / *front* 90/90-21
 hinten / *rear* 140/80-18

3.4. Zusammenbau der Auspuffanlage / *Assembly of the exhaust system*

(Teile lfd. Nr. lt. Anl. 1 /
no. of parts, enclosure 1)
 Versuchsreihe A / *Tests series A*: 1)2)3)4)





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3.5. Messung der Geräuschwerte / *Acoustic measurements*

- 3.5.1. Hersteller des Messgerätes /
Manufacturer of the sound level meter: GRASS
- 3.5.2. Typ des Messgerätes /
Type of the sound level meter: F-2003; F-2004; F-2018
- 3.5.3. Fahrgeräusch, Standgeräusch /
Drive by noise, stationary noise:
 nach ECE-R 41.04 /
according ECE-R 41.04
- 3.5.4. Beladungszustand bei der Fahrgeräuschmessung /
Load condition during drive by test: Leergewicht zuzüglich 75 kg Fahrer /
Unloaded weight plus 75 kg driver
- 3.5.5. Abweichung bei Kalibrierung /
Deviation at calibration: < 0.2 dB(A)

3.6. Messung der Leistung / *Power measurement*

- 3.6.1. Messung der Leistungskurve mit Nicht-Originalauspuffanlage /
Testing of max. power with non-original exhaust system:
 Die gemessene Nennleistung und die zugehörige Drehzahl liegen im Toleranzbereich von 5% im Vergleich zu den mit der Originalauspuffanlage gemessenen Werten. (siehe Anlage) /
The tested max. power and the engine speed are in the 5% tolerance in comparison with the original exhaust system. (see enclosure)
- 3.6.2. Messung der Höchstgeschwindigkeit mit Nicht-Originalauspuffanlage/
Testing of top speed with non-original exhaust system:
 Entfällt, da Fahrzeugklasse: L3e
Not applicable, because vehicle category: L3e

3.7. Konditionierung der Auspuffschalldämpferanlage / *Conditioning*

durch Druckschwingungen / *by pulsation*





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3.8. Messung der Schadstoffemissionen / *Pollution Test*

Messung des Abgasverhaltens mit Austauschkatalysator in Verbindung mit Nicht-Originalauspuffanlage gegen die in (EU)168/2013 Anh. VI genannten Grenzwerte bezogen auf die Fahrzeugklasse des Prüffahrzeugs.

Testing of pollution with aftermarket catalytic converter in combination with non-original exhaust system against the limits mentioned in (EU)168/2013 Annex VI regarding the vehicle category of the test bike.

3.9. Ergebnisse / *Test results*

Die Ergebnisse der Prüfungen hinsichtlich / *The results of*

- 3.9.1. Geräusche / *Sound testing*
- 3.9.2. Leistung / *Power measurement*
- 3.9.3. Höchstgeschwindigkeit / *Top speed*
- 3.9.4. Abgasverhalten / *Pollution test*

sind der als Anlage 3 und 4 beigefügten Tabellen zu entnehmen /
are attached in the enclosure 3 and 4.

Aufgrund der durchgeführten Messungen mit Original- und Nicht-Original-Auspuffanlage können die Punkte 6.2 bis 6.5 der ECE-R 92 als erfüllt betrachtet werden. /

The results of the tests with the original and not original exhaust systems show that item 6.2 to 6.5 of the Directive ECE-R 92 are fulfilled.

- 3.9.5. Die beschriebene Nicht-Originalauspuffanlage / Technische Einheit darf an den in der Anlage 2 aufgeführten Kraftfahrzeugen unter den dort genannten Bedingungen verwendet werden. /
The described non-original exhaust system / technical unit is suitable for an application on the vehicles listed in enclosure 2.
- 3.9.6. Die allgemeinen Spezifikationen gemäß Punkt 6.1 der ECE-R 92 wurden überprüft und werden durch die Nicht-Originalauspuffanlage / Technische Einheit erfüllt. /
The general specifications concerning item 6.1 of the Directive ECE-R 92 were checked and fulfilled.





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4. Anlagen / *Enclosures*

Anlage 1, Teile der Nicht-Originalauspuffanlage
Enclosure 1, Composition of the non original exhaust system
 Anlage 2, Verwendungsbereich
Enclosure 2, Field of application
 Anlage 3, Ergebnis der Prüfungen
Enclosure 3, Test results
 Anlage 4, Ergebnis der Prüfungen hinsichtlich Abgasverhalten
Enclosure 4, Test results according pollution
 Anlage, Leistungskurve
Enclosure, Performance diagram
 Anlage, Protokoll Geräuschmessung
Enclosure, protocol noise test

Attachments	Drawing no.	Date	Pages
Drawing Silencer	M-HZAA013	01.12.2016	1
Part List	M-HZAA013-S HU701	-	1
Assembly Drawing	S HU 701	-	2
Installation Instructions	Husqvarna 701	-	12

5. Schlussbescheinigung / *Summary*

Der angegebene Beschreibungsbogen und der darin beschriebene Typ entsprechen der genannten Prüfgrundlage.
 Der ungünstigste Fall wurde entsprechend Prozessbeschreibung „Erstellung von Gutachten“ bestimmt.
 Der Prüfbericht darf nur vom Auftraggeber und nur in vollem Wortlaut vervielfältigt und weitergegeben werden. Eine auszugsweise Vervielfältigung und Veröffentlichung des Prüfberichtes ist nur nach schriftlicher Genehmigung des Prüflaboratoriums zulässig

The information folder and the type described therein are in compliance with the test specification mentioned above. The worst-case was selected in accordance with document

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Slovenija

Typ / *Type*: M-HZAA013

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Genehmigungsbehörde / Approval authority	Land / Country	Registriernummer / Registration-number	Aktueller Benennungsumfang / Actual scope list
Kraftfahrt-Bundesamt (KBA)	Deutschland/ <i>Germany</i>	KBA-P 00100-10	www.kba.de
Vehicle Certification Agency (VCA)	Vereintes Königreich/ <i>United Kingdom</i>	VCA-TS-006	http://ec.europa.eu/enterprise/sectors/automotive/approval-authorities-technical-services/technical-services/index_en.htm
Approval Authority of the Netherlands (RDW)	Niederlande/ <i>The Netherlands</i>	RDWT-082-01	
National Standards Authority of Ireland (NSAI)	Irland/ <i>Ireland</i>	Technical Service Number: 49	
Vehicle Safety Certification Center (VSCC)	Taiwan/ <i>Taiwan</i>	DE04-06-2	http://www.vsc.org.tw/English/Default.aspx

München, 19.12.2016



Dipl.-Ing. (FH) Max Höhler
Prüfingenieur / *The Expert*

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ANLAGE 1
ENCLOSURE 1

zum Prüfbericht Nr. / *to test report no.*
Typ / *Type:*
Hersteller / *Manufacturer:*

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M-HZAA013
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Teile der Nicht-Originalauspuffanlage + Originalteile/
Composition of the original exhaust system + original parts

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Lfd. Nr. / No.	Einzelteile, Abmessungen in mm / <i>Components parts, dimensions in mm</i>	Abmessungen des Teiles in mm bzw. Originalteil / Ersatzteil / <i>Dimensions of the part in mm or original part / replacement part</i>	Teilenummer bzw. Genehmigungsnummer / <i>Part no. or homologation no.</i>
1)	Krümmerröhr / <i>header pipe</i>	Originalteile / <i>original parts</i>	-
2)	Verbindungsrohr / <i>link pipe</i>	-	L-HU7SO1
3)	Katalysator / <i>catalytic converter</i>	Ø72 x 100	P-KAT-060 e26*01081*F
4)	Schalldämpfer / <i>silencer</i> (2 x Austrittsrohr / 2 x <i>outlet pipe</i> Ø 25)	konisch hexagonal / <i>conical hexagonal</i> 133 x 172,1 Länge ohne Endkappen / <i>length without end caps</i> 400	M-HZAA013 e26*08067*G E26 92R 01 8067



ANLAGE 2
ENCLOSURE 2

zum Prüfbericht Nr. / to test report no.
Typ / Type:
Hersteller / Manufacturer:

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M-HZAA013
Akrapovic, Malo Hudo 8a
1295 Ivančna Gorica, Slovenija

Verwendungsbereich (Fahrzeugdaten) / Field of application

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Lfd. Nr.	Hersteller	Fabrikmarke	Handelsbezeichnung	Fahrzeugtyp ab Genehmigung Nr.	Var. Vers.	Motortyp 4 Takt	Hubraum in cm ³	Nennleistung kW/min ⁻¹	Sonstige bestimmende Merkmale	Anordnung entspr. Anl. 1 lfd. Nr.
No. of vehicle	Manufacturer	Trade mark	Commercial description	Vehicle type beginning with no. of homologation	Var. Vers.	Engine type 4 Stroke	Engine capacity in cm ³	max. engine power kW/min ⁻¹	Additional remarks	Composition reg. enclosure no. 1
1)	KTM AG	Husqvarna	Enduro	Husqvarna 701	alle all	766	693	55/8000	mit Kat.*) / with cat.	1)2)3)4)
2)			Supermoto	e1*168/2013*00032*		766	693	31/5500		
3)			Enduro	Husqvarna 701		760	690	24/7000		
4)			Supermoto	e1*168/2013*00034*		760	690	30/7000		
5)			Enduro	Husqvarna 701		760	690	49/7000		
6)				e1*2002/24*0690*		760	690	24/7000		
7)						760	690	30/7000		
8)			Supermoto			760	690	49/7000		
9)						760	690	30/7000		
10)						760	690	49/7000		

*) Der serienmäßige Katalysator wird durch einen Austausch-Katalysator ersetzt.
The original catalytic converter is replaced by an aftermarket-catalyst.



ANLAGE 3
ENCLOSURE 3

zum Prüfbericht Nr. / *to test report no.*
Typ / *Type:*
Hersteller / *Manufacturer:*

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M-HZAA013
Akrapovic d.d.,
1295 Ivančna Gorica, Slovenija

Ergebnis der Prüfungen / *Test results*

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Lfd.Nr.	Leistung Fahr- zeug / Serie kW/min ⁻¹	Leistung Austausch kW/min ⁻¹	Vmax Serie km/h	Vmax Aus- tausch km/h	Fahrgeräusche in dB(A) / <i>Sound levels driving vehicle in dB(A)</i>					Standgeräusche in dB(A) / <i>Sound levels stationary vehicle in dB(A)</i>			
					gemes- sen in Gang	Grenz- wert **)	Serie gemes- sen	Austausch gemessen	bei km/h	lt. Fzg. BE	Serie gemes- sen /	Austausch gemessen	bei min ⁻¹
<i>No. of vehicle</i>	<i>Engine power original kW/min⁻¹</i>	<i>Engine power non original kW/min⁻¹</i>	<i>Vmax original km/h</i>	<i>Vmax non original km/h</i>	<i>measured in gear ratio</i>	<i>Limit Value **) SL_{EU4}</i>	<i>Original mea- sured L_{urban}</i>	<i>Non original measured L_{urban}</i>	<i>at km/h</i>	<i>Vehicle type hom.</i>	<i>Original mea- sured</i>	<i>Non original measured</i>	<i>at min⁻¹</i>
1) A*	55/8000	55/8000	-	-	3	77	78	77	50	90	90	90	4000

*) Versuchsreihe / *Test series*

**) Grenzwert der Richtlinienfassung, die bei Erteilung der Fahrzeuggenehmigung Gültigkeit hatte /
Limit value of directive which was valid by vehicle type homologation

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ANLAGE 4 zum Prüfbericht Nr. / *to test report no.* **16-00124-CM-GBM-00**
ENCLOSURE 4 **Typ / Type:** **M-HZAA013**
Hersteller / Manufacturer: **Akrapovic d.d.,**
1295 Ivančna Gorica, Slovenija

Ergebnis der Prüfungen hinsichtlich Abgasverhalten /
Test results according pollution

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Versuchsreihe / Series A: (Fahrzeug lfd. Nr. / Vehicle no. 1)

Messung gemäß / *Tests regarding:*
entsprechend Typ / *according to Type*

134/2014 Anh. / *Annex II; III; VI*
I; II; V

Typ / Type I

Äquivalente Schwungmasse / <i>Equivalent flywheel mass</i>	230 kg
---	--------

WMTC Phase 2 WMTC Stage 2	Kategorie 3-2 <i>Class 3-2</i>	CO [mg/km]	THC [mg/km]	NO _x [mg/km]
Test 1	R ₁	567	105	40
Test 2	R ₂	582	103	42
Test 3	R ₃	-	-	-
Mittelwert / <i>Average</i>		575	104	41
Grenzwerte / <i>Limits</i> 168/2013 Annex VI (A1) Euro 4 (v _{max} ≥ 130 km/h)		1140	170	90

Typ / Type II

Betriebsbedingung / <i>Running condition</i>	CO [Vol %]	Motordrehzahl / <i>Engine rpm</i> [min -1]	Motoröltemperatur / <i>Engine oil temperature</i> [°C]
Normale Leerlaufdrehzahl / <i>Nominal idle speed</i>	0,01	1770	90° C
Hohe Leerlaufdrehzahl / <i>Exceeded idle speed</i>	0,01	2500	90° C

Typ / Type V

Mathematisches Dauerhaltbarkeitsverfahren / *Mathematical durability procedure*

Verschlechterungsfaktor / <i>Deterioration Factor (DF)</i>	1,3	1,2	1,2
Test 1 R ₁ x DF	737	126	48
Test 2 R ₂ x DF	757	124	50
Test 3 R ₃ x DF	-	-	-
Mittelwert / <i>Average</i>	747	125	49
Grenzwerte / <i>Limits</i> 168/2013 Annex VI (A1) Euro 4 (v _{max} ≥ 130 km/h)	1140	170	90





**Uniform provisions concerning the approval of vehicles of category L₃,
with regard to noise according to ECE-R 41.04, Annex 3**

0. Customer

Company: Akrapovic
 Address: Malo Hudo 8a
 ZIP-Code/City/Country: 1295 Ivancna Gorica, Slovenia

1. Vehicle

Manufacturer: HUSQVARNA
 Model/Trade name: Husqvarna 701 Enduro
 Type: HUSQVARNA 701
 Version: B
 Vehicle Class: L3e
 Vehicle Ident. No.: VBKP37012HM781677
 Year of manufacture: without
 Type App. No./EG/ECE: Prototype
 Maximum vehicle speed: 170 [km/h]
 Milage: 435 [km]
 Type approval stationairy: 90,0 [dB(A)]
 Type approval L_{urban}: 77,0 [dB(A)]

2. Engine

Manufacturer: KTM
 Type: 7-766*29955*
 Working principle: Positve Ignition
 Stroke numbers: 4-Stroke
 max. Power P_n: 55 [kW]
 Engine speed S: 8000 [rpm]
 Idle Engine speed: 1650 [rpm]
 Cylinder numbers: 1
 Cylinder capacity: 693 [cm³]
 Engine position: Fornt

3. Transmission

Type: Manuel
 Ident. No.: n.a.
 Numbers of axles: 2
 Numbers of wheels: 2
 Powerd axles: Axle 2
 Number of gears: 6
 Gear mode: locked
 Ratio Prim:Sek: 15 / 46
 Driving mode: n.a.



4. Tyres

	front	rear
Manufacturer:	Continental	Continental
Type:	TKC 80 Twinduro	TKC 80 Twinduro
Dimension:	90/90-21	140/80-18
Infalton pressure:	1,8	1,8

5. Exhaustsystem

	No.	Manufacturer	Marking left	Marking right
Pre Catalyst:				
Catalyst:				
Front sil.:				
Middle sil.:				
Rear sil.:	1	Akrapovic	ZAA-shape	
Tail pipe:	2	Akrapovic	D=25mm	



**Uniform provisions concerning the approval of vehicles of category L3,
with regard to noise according to ECE-R 41.04, Annex 3**

6.0 Measurements and Calculation of the moving vehicle

6.1 Results pass by noise

Gear	Run	Mode	acc. point ⁽²⁾ [m]	A-A'		P-P'		B-B'		a _{wot test} [m/s ²]	a _{wot aver} [m/s ²]	Sound level L ⁽³⁾		L _{mode aver}		L _{mode max} [dB(A)]	L _{wot} ⁽⁴⁾ [dB(A)]	L _{crs} ⁽⁴⁾ [dB(A)]	L _{urban} [dB(A)]
				v [km/h]	n [rpm]	v [km/h]	n [rpm]	v [km/h]	n [rpm]			left [dB(A)]	right [dB(A)]	li [dB(A)]	re [dB(A)]				
3	1	wot ₍₃₎	0,0	39,8	2885	49,8	3611	59,4	4313	3,36	3,42	80,9	79,7	80,8	79,5	80,8	80,8	71,9	76,7
3	2			39,6	2870	49,9	3616	59,8	4335	3,47		80,7	79,4						
3	3			39,8	2889	50,1	3630	59,8	4337	3,44		80,8	79,4						
3	4	crs ₍₃₎		50,2	3648	50,1	3643	50,3	3661			71,9	71,7	71,9	71,1	71,9	80,8	71,9	76,7
3	5			50,3	3656	50,5	3672	50,8	3691			71,8	71,3						
3	6			49,7	3617	49,7	3614	49,6	3606			72,1	70,4						

2) Acceleration point according Line A-A'; 3) measurement values are given with the 1 dB(A) deduction; 4) Intermediate Results

6.2 Weights and Dimensions

max. perm. Weight:	350	[kg]
Kerb mass vehicle m _{kerb} :	156	[kg]
Testweight incl. rider:	231	[kg]
Reference length l _{ref} :	2320	[mm]
Power-to-Mass Ratio PMR:	238,1	

6.3 Constants/Factors

Reference acceleration a _{wot ref} :	3,75	[m/s ²]
lower limit Target acceleration a _{wot ref min} :	3,38	[m/s ²]
upper limit Target acceleration a _{wot ref max} :	4,13	[m/s ²]
Target acceleration a _{urban} :	1,85	[m/s ²]
Gear selected (i):	3	
Gear selected (i+1):	-	
Gear weighting factor k:	-	
Partial power factor k _p :	0,460	



6.4 Vehicle speeds of measurements⁽⁵⁾

gear (i):		
Pre-acceleration length:	0,0	[m]
V _{PP} :	49,9	[km/h]
V _{BB} :	59,7	[km/h]
gear (i+1):		
Pre-acceleration length:	-	[m]
V _{PP} :	-	[km/h]
V _{BB} :	-	[km/h]

5) speed average of 3 runs



**Uniform provisions concerning the approval of vehicles of category L3,
with regard to noise according to ECE-R 41.04, Annex 3**

7. Results stationary noise level

	Sound level L		Engine speed [rpm]
	left	right	
	[dB(A)]	[dB(A)]	
1. Run	89,7		4000
2. Run	89,4		
3. Run	89,5		
	90,0	dB(A)	

8. Measurement conditions

Air temperature:	31,6	[°C]
Surface temperature:	51,3	[°C]
Wind speed:	1,2	[m/s]
Wind direction:	159,0	[°]
Air humidity	32,9	[%]
Air pressure:	1016,7	[mbar]

9. General Requirements

Ambient noise level		
before Meas.:	47,9	[dB(A)]
after Meas.:	49,3	[dB(A)]
Calibration level (Target):	94,30	[dB(A)]
Calibration level Mikro 1:	94,30	[dB(A)]
Calibration level Mikro 2:	94,29	[dB(A)]

10. Summary Test Results**10.1 Noise levels of stationary vehicle**

L: **90,0** [dB(A)]

10.2 Noise levels of moving vehicle

Intermediate result		Limit
$L_{wot\ rep}$:	80,8 [dB(A)]	82,0 [dB(A)]
$L_{crs\ rep}$:	71,9 [dB(A)]	
Final Result		
L_{urban} :	76,7 [dB(A)]	77,0 [dB(A)]

11. General

Expert:	Wibmer Ch.
Test driver:	Engel Markus
Test track:	Strecke "OST"
Test date:	20.07.2016
FAKT-motion P-Nr.:	M15-0019
Technical institute:	FAKT-motion GmbH, Junkersstr. 1, 87734 Benningen
Data file:	M15-0019_ZAA-shape_insert D 25mm_Husqvarna_701 Enduro_55KW.xlsx
Remarks:	Insert D=2 x a 25 mm



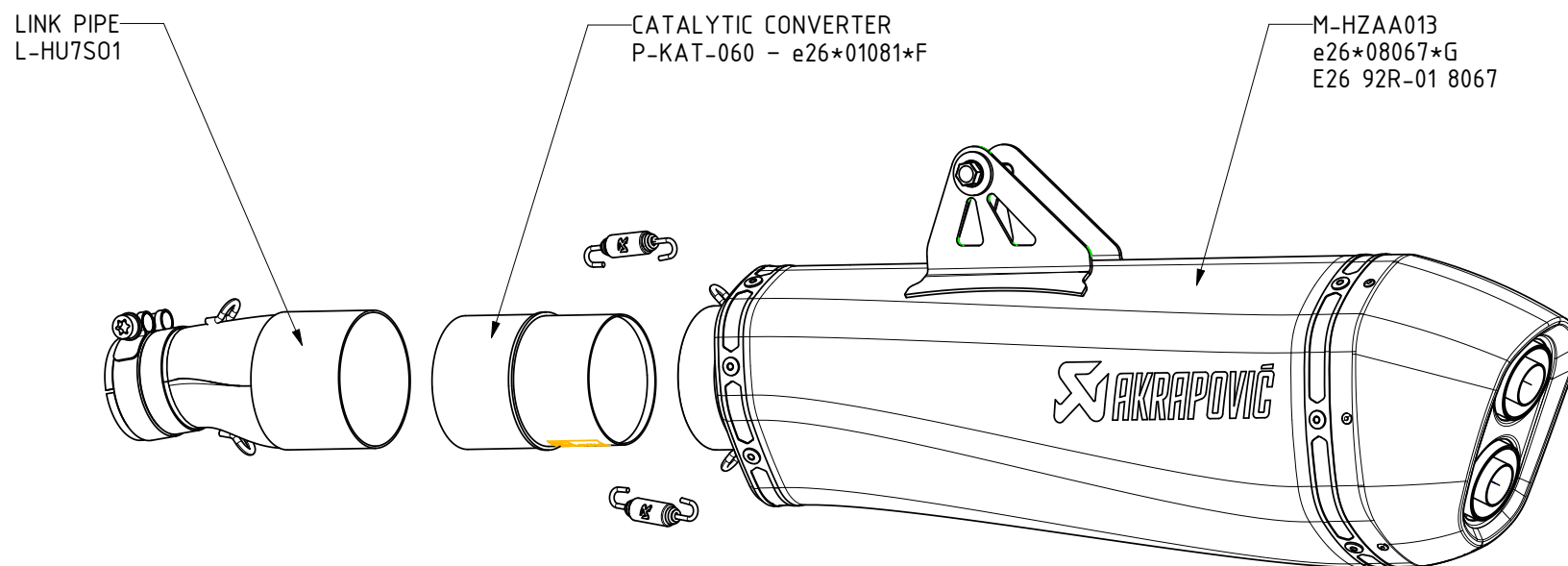
Benningen, 13.10.2016
Place, Date of issue

Signature Expert

Slip-ON line / EC / ECE Type approval

S HU 701 supermoto SO E4 OEM

Product code: S-HU7SO3-WT



Slip-ON line / EC / ECE Type approval

S HU 701 SUPERMOTO SO OPEN MTT OEM

Product code: S-HU7SO3-WT

