

# NSAI

## ECE TYPE-APPROVAL CERTIFICATE



Communication Concerning:<sup>2</sup> Approval granted  
~~Approval extended~~  
~~Approval refused~~  
~~Approval withdrawn~~  
~~Production definitively discontinued~~

of a vehicle type with regard to a type of NORESS or component there of pursuant to UN Regulation No. 92.

Approval No: **E24\*92R02/00\*0092\*00**

Reason for extension: **N/A**

1. Trade name or mark of the vehicle: **KTM (A)**

2. Vehicle type: **HQV CVI**

3. Manufacturer's name and address: **Please see the test report no. 24-00007-CM-GBM-00 and accompanying information document for details**

4. If applicable, name and address of manufacturer's representative: **N/A**

5. Engine

5.1. Manufacturer: **KTM**

5.2. Type: **A676**

5.3. Model: **N/A**

5.4. Rated maximum net power: **77 kW bei / at 9250 min-1**

5.5. Kind of engine (e.g. positive-ignition, ~~compression ignition, etc.~~)<sup>(3)</sup>: **Positive Ignition**

5.6. Cycles: ~~two-stroke~~/four-stroke<sup>(2)</sup>: **Four-Stroke**

5.7. Cylinder capacity: **799 cm3**

6. Transmission

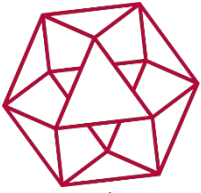
6.1. Type of transmission: non-automatic gearbox/~~automatic gearbox~~ **Non-automatic gearbox**

6.2. Number of gears: **6-Speed**

<sup>1</sup> Distinguishing number of the country which has granted/extended/refused/withdrawn an approval (see approval provisions in the Regulation).

<sup>2</sup> Delete what does not apply.

<sup>3</sup> If a non-conventional engine is used, this should be stated.



# NSAI

Approval No:

**E24\*92R02/00\*0092\*00**

## 7. Equipment

### 7.1. Exhaust silencer

7.1.1. Manufacturer or authorized representative (if any):

*N/A*

7.1.2. Model:

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

7.1.3. Type:

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

### 7.2. Intake silencer

7.2.1. Manufacturer or authorized representative (if any):

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

7.2.2. Model:

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

7.2.3. Type:

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

8. Gears used for test of motor cycle in motion:

*3<sup>rd</sup> & 4<sup>th</sup>*

9. Final drive ratio(s):

*2.563*

10. ECE type approval number of tyre(s):

*N/A*

If not available, the following information shall be provided:

10.1. Tyre manufacturer:

*Michelin Power*

10.2. Commercial description(s) of the type of tyre (by axle),  
(e.g. trade name, speed index, load index):

*Michelin Power*

10.3. Tyre size (by axle):

*Front: 120/70 ZR17 45V  
Rear: 180/55 ZR17 63V*

10.4. Other type approval number (if available):

*N/A*

## 11. Masses

11.1. Maximum permissible gross weight:

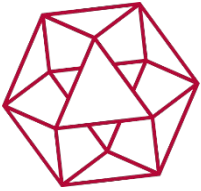
*435 kg*

11.2. Test mass:

*255 kg*

11.3. Power to mass ratio index (PMR):

*301.9.*



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12. Vehicle length:

12.1. Reference length lref:

**2.1 m**

13. Vehicle speeds of measurements in gear (i)

**3 + 4**

13.1. Vehicle speed at the beginning of the period of acceleration (average of 3 runs) for gear (i):

***See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details***

13.2. Pre-acceleration length for gear (i):

**0 m**

13.3. Vehicle speed vPP' (average of 3 runs) for gear (i):

***See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details***

13.4. Vehicle speed vBB' (average of 3 runs) for gear (i):

***See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details***

14. Vehicle speeds of measurements in gear (i+1) (if applicable)

**N/A**

14.1. Vehicle speed at the beginning of the period of acceleration (average of 3 runs) for gear (i+1):

**N/A**

14.2. Pre-acceleration length for gear (i+1):

**N/A**

14.3. Vehicle speed vPP' (average of 3 runs) for gear (i+1):

**N/A**

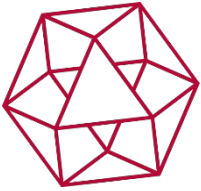
14.4. Vehicle speed vBB' (average of 3 runs) for gear (i+1):

**N/A**

15. Accelerations are calculated between lines AA' and BB'/PP' and BB'

15.1. Description of functionality of devices used to stabilize the acceleration (if applicable):

***See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details***



# NSAI

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## 16. Sound levels of moving vehicle

### 16.1. Wide-open-throttle test result Lwot:

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

### 16.2. Constant speed test results Lcrrs:

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

### 16.3. Partial power factor kp:

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

### 16.4. Final test result Lurban

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

## 17. Sound level of stationary vehicle

### 17.1. Position and orientation of microphone (according to Appendix 2 of Annex 3 of 04 series of UN Regulation No. 41):

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

### 17.2. Test result for stationary test:

**91 db(A) at 3500 min<sup>-1</sup>**

## 18. Additional sound emission provisions:

*See manufacturer's statement of compliance (attached)*

## 19. In-use compliance reference data

### 19.1. Gear (i) or, for vehicles tested with non-locked gear ratios, the position of the gear selector chosen for the test:

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

### 19.2. Pre-acceleration length IPA:

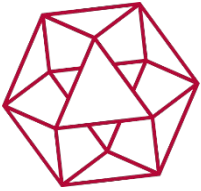
*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

### 19.3. Vehicle speed at the beginning of the period of acceleration (average of 3 runs) for gear (i):

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*

### 19.4. Sound pressure level Lwot(i):

*See test report 24-00007-CM-GBM-00 and the accompanying manufacturer's documentation for details*



# NSAI

Approval No:

**E24\*92R02/00\*0092\*00**

20. Date of submission of vehicle for approval:

**05.03.2024**

21. Technical Service performing the approval tests:

**TÜV SÜD Auto Service GmbH,  
Westendstraße 199,  
D-80686 München**

22. Date of report issued by that Service:

**04.03.2024**

23. Number of report issued by that Service:

**24-00007-CM-GBM-00**

24. Approval granted/extended/refused/withdrawn<sup>2</sup>:

**Granted**

25. Position of approval mark on the motor cycle:

**On exhaust**

26. Place:

**Dublin**

27. Date:

**28<sup>th</sup> May, 2024**

28. Signature:

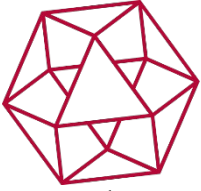


29. The following documents, bearing the approval number shown above, are annexed to this communication:

Drawings, diagrams and plans of the engine and of the sound reduction system;

Photographs of the engine and of the exhaust or silencing system;

List of components, duly identified constituting the sound reduction system.



# NSAI

Approval No:

**E24\*92R02/00\*0092\*00**

## *Index to the Information Package*

Date of issue: **28<sup>th</sup> May, 2024**

Date of latest amendment: **N/A**

Reason for extension/revision: **N/A**

1. Test report(s)

- numbers(s): **24-00007-CM-GBM-00**

- date of issue: **04.03.2024**

- date of latest amendment: **N/A**

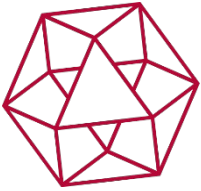
2. Information document

- number(s): **NXT22**

- date of issue: **04.03.2024**

- date of latest amendment: **N/A**

Documentation: **36 pages**



# NSAI

Approval No:

**E24\*92R02/00\*0092\*00**

Appendix: **Additional conditions, and advisory notes on legal alternatives**

A: Additional conditions:

1. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
2. Each type from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
3. Changes in the type are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
4. At regular intervals, any tests or associated checks prescribed by the applicable legislation to verify continued conformity with the approved type shall be carried out. The manufacturer shall demonstrate compliance with this by submitting to NSAI evidence of adequate arrangements and documented control plans for each type approved.
5. Any set of samples or test pieces showing evidence of non-conformity shall give rise to further sampling and testing and all steps shall be taken to restore conformity of production.
6. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options:

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.



## PRÜFBERICHT TEST REPORT

**Nr. / no. 24-00007-CM-GBM-00**

über die Prüfung einer Nicht-Originalauspuffanlage oder  
von Einzelteilen hiervon als Technische Einheit für Krafträder gemäß  
ECE-R 92, Änderungsserie 02  
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, 02 series of amendments*

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

<b>Genehmigungsstand / Approval status</b>	
<input checked="" type="checkbox"/>	Erteilung einer Typgenehmigung <i>Granting of a type approval</i> <b>E24*92R02/00*0092*00</b>
<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:* -



**0. Allgemeine Angaben / General information**

- 0.1. Fabrikmarke / Make: REMUS
- 0.2. Typ / Type: NXT22
- 0.2.1. Ausführungen / Variants: NXT22 (1)
- 0.3. Name und Anschrift des Herstellers /  
*Name and address of manufacturer:* Remus Innovation GmbH  
Ruhmannstr. 11  
A-8570 Voitsberg
- 0.4. Name und Anschrift des Beauftragten /  
*Name and address of authorized agent:* entfällt / n.a.
- 0.5. Nr. des Beschreibungsbogens /  
*No. of information document:* NXT22  
Ausgabedatum / Date: 04.03.2024
- 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 / see enclosure 2

## **2. Angaben zum Prüfobjekt / Composition of the separate technical unit**

- 2.1. Art der Technischen Einheit / *Kind of technical unit:*  
Technische Einheit, bestehend aus einem Schalldämpfer nach Zeichnung Nr. 24ESD20021.1, oval 203 x 268 x 436 mm, Absorptionsprinzip mit Eintritts- und Austrittsrohren gem. Anlage 1. /  
*Technical unit, consisting of a silencer according to drawing no. 24ESD20021.1, oval 203 x 268 x 436 mm, absorption-principle with inlet and outlet pipes according to enclosure 1.*
- 2.2. Ort der Kennzeichnung /  
*Place of marking:* seitlich am Schalldämpfer /  
*at the side of the silencer*
- 2.3. Zusammenstellung der techn. Einheit /  
*Composition of the separate technical unit:* siehe Anlage 1 / *see enclosure 1*
- 2.4. Lage und Richtung der Auspuffmündung /  
*Position and direction of the tail pipe:* rechts seitlich nach hinten /  
*right side to the rear*

## **3. Prüfprotokoll / Test report**

Die Prüfungen wurden in 1 Versuchsreihe A mit folgendem Fahrzeug durchgeführt. /  
*The tests were carried out in 1 series A with following vehicle:*

Versuchsreihe A / Series A: (lfd. Nr. / no. 1, Messdatum / Date 01.02.2024)

### **3.1. Fahrzeug / Vehicle**

- 3.1.1. Typ / Type: HQV CV1  
3.1.1.1 Variante / Version / *Variant / Version:* A / -  
3.1.1.2 Fahrzeugkategorie / *Category:* L3e-A3  
3.1.1.3 Handelsbezeichnung / *Model:* Husqvarna 801 Svartpilen
- 3.1.2. Hersteller / *Manufacturer:* KTM (A)
- 3.1.3. Genehmigungs-Nr. / *Homologation no.:* e1\*168/2013\*00376\*  
3.1.3.1 Nachtrag bzw. Erweiterung / *Extension:* 00
- 3.1.4. Fahrzeugidentifizierungsnummer /  
*Vehicle identification no.:* VBKUF7P38RM762120
- 3.1.5. Baujahr / *Year of manufacture:* 2024
- 3.1.6. Km-Stand / *Kilometers:* 67
- 3.1.7. Zul. Gesamtgewicht / *Total weight:* 435 kg

### 3. **Prüfprotokoll** (Fortsetzung) / **Test report** (continuation)

#### 3.2. **Antriebsmaschine / Engine**

- 3.2.1. Hersteller / *Manufacturer:* KTM  
3.2.2. Typ / *Type:* A676  
3.2.3. Hubraum / *Engine capacity:* 799 cm<sup>3</sup>  
3.2.4. Höchstleistung / *Max. net power:* 77 kW bei / *at* 9250 min<sup>-1</sup>  
3.2.5. Max. Drehmoment / *Max. net torque:* 87 Nm bei / *at* 8000 min<sup>-1</sup>

#### 3.3. **Kraftübertragung / Transmission**

- 3.3.1. Art der Kraftübertragung /  
*Kind of transmission:* mechanisch / *mechanical*  
3.3.2. Getriebe / *Gearbox:* 6-Gang-manuell / *6-gear-manual*  
3.3.3. Übersetzungsverhältnisse /  
*Transmission ratios*  
primär / *primary* / sekundär / *secondary:* 1,923 / 2,563  
Höchstgeschwindigkeit / *Top speed:* 224 km/h  
Reifen / *Tires:* Michelin Power  
vorne / *front:* 120/70 ZR17 45V  
hinten / *rear:* 180/55 ZR17 63V

#### 3.4. **Zusammenbau der Auspuffanlage / Assembly of the exhaust system** (Teile lfd. Nr. lt. Anlage 1 / *no. of parts acc. enclosure 1*)

Versuchsreihe A / Series A: 1)2)3a)

#### 3.5. **Messung der Geräuschwerte / Acoustic measurements**

- 3.5.1. Hersteller des Messgerätes /  
*Manufacturer of test equipment:* MÜLLER-BBM  
3.5.2. Typ des Messgerätes /  
*Type of the test equipment:* PAK MK II Configuration  
3.5.3. Fahrgeräusch, Standgeräusch /  
*Drive by noise, stationary noise:* nach ECE-R 41.05 /  
*according ECE-R 41.05*

### **3. Prüfprotokoll (Fortsetzung) / Test report (continuation)**

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 is 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 /  
*not applicable, because vehicle class:* L3e

### **3.7. Konditionierung der Auspuffschalldämpferanlage / *Conditioning of silencer system***

durch Druckschwingungen / *by pulsation*

### **3.8. Ergebnisse / *Test results***

Die Ergebnisse der Prüfungen hinsichtlich / *The test results of*

3.8.1. Geräuschmessung / *Noise testing*

3.8.2. Leistungsmessung / *Power measurement*

sind der als Anlage beigefügten Tabellen zu entnehmen. /  
*are attached in the enclosures.*

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 non-original exhaust system show that item 6.2 to 6.5 of the directive ECE-R 92 is fulfilled.*

### 3. **Prüfprotokoll** (Fortsetzung) / **Test report** (continuation)

- 3.8.3. 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 at the vehicles listed in enclosure 2.*
- 3.8.4. 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 are fulfilled.*

### 4. **Anlagen / Enclosures**

Anlage 1: Teile der technischen Einheit (1 Seite / Page)  
*Enclosure 1: Composition of the separate technical unit*

Anlage 2: Verwendungsbereich (1 Seite / Page)  
*Enclosure 2: Field of application*

Anlage 3: Ergebnisse der Geräusch- und Leistungsmessungen (6 Seiten / Pages)  
*Enclosure 3: Results of noise testing and power measurements*

### 5. **Schlussbescheinigung / Summary**

Der erwähnte Beschreibungsbogen und der darin beschriebene Typ entsprechen der genannten Prüfgrundlage. Der ungünstigste Fall wurde entsprechend der Prozessbeschreibung "Anforderungen an Prüfberichte (AS-PB-T-02)" bestimmt.

Der Prüfbericht darf nur vom Auftraggeber und nur in vollem Wortlaut vervielfältigt und weitergegeben werden. Eine auszugsweise Vervielfältigung und Veröffentlichung des Prüfberichtes sind nur nach schriftlicher Genehmigung zulässig. /

*The mentioned information document and the type described therein are in accordance with the test basis mentioned above. The worst-case was selected in accordance with document "Requirements for Test Reports (AS-PB-T-02)".*

*The test report may be reproduced and published in full and by the client only. It can be reproduced partially with the written permission of the test laboratory only.*

**5. Schlussbescheinigung (Fortsetzung) / Summary (continuation)**

TÜV SÜD Auto Service GmbH ist benannt als Technischer Dienst durch:  
*TÜV SÜD Auto Service GmbH is designated as Technical Service by:*

<b>Genehmigungsbehörde</b> <i>Approval authority</i>	<b>Land</b> <i>Country</i>	<b>Registriernummer</b> <i>Registration number</i>
Kraftfahrt-Bundesamt (KBA)	Deutschland <i>Germany</i>	KBA-P 00100-10
Vehicle Certification Agency (VCA)	Vereinigtes Königreich <i>United Kingdom</i>	VCA-TS-006
Approval Authority of the Netherlands (RDW)	Niederlande <i>The Netherlands</i>	RDWT-082-xx
National Standards Authority of Ireland (NSAI)	Irland <i>Ireland</i>	49
Swedish Transport Agency (STA)	Schweden <i>Sweden</i>	TT 0024
Société Nationale de Certification et d'Homologation s.a.	Luxemburg <i>Luxembourg</i>	13/B(g)
Vehicle Safety Certification Center (VSCC)	Taiwan <i>Taiwan</i>	DE04-06-2

Dieser Bericht umfasst Seite 1 bis 7. /  
*This test report contains the pages 1 up to 7.*

München, 04.03.2024



F. Rinske (B. Eng.)  
Sachverständiger / *Recognized Expert*  
fr  
NXT22\_0.doc



Prüfbericht Nr. / Test report No.: 24-00007-CM-GBM-00  
Hersteller / Manufacturer: Remus Innovation GmbH, A-8570 Voitsberg  
Typ / Type: NXT22



Auto Service

## ANLAGE 1 ENCLOSURE 1

### Teile der technischen Einheit / Composition of the separate technical unit

Lfd. Nr. / No.	Einzelteile, Abmessungen in mm / Components parts, dimensions in mm	Abmessungen des Teiles in mm bzw. Originalteil / Ersatzteil / Dimensions of the part in mm or original part / replacement part	Teilenummer bzw. Genehmigungsnummer / Part no. or homologation no.
1)	Krümmerröhre / Header pipes	Originalteile / Original parts	-
2)	Katalysator mit Vorschalldämpfer / Catalytic converter with pre-muffler	Originalteile / Original parts	-
3a)	Schalldämpfer / Silencer (Austrittsrohr / Outlet pipe Ø 32)	oval / oval 203 x 268 x 436 lg	NXT22

NXT22\_1.doc

Prüfbericht Nr. / Test report No.: 24-00007-CM-GBM-00  
 Hersteller / Manufacturer: Remus Innovation GmbH, A-8570 Voitsberg  
 Typ / Type: NXT22



## ANLAGE 2 ENCLOSURE 2

### Verwendungsbereich / Field of application

Die Fahrzeuge erfüllen - beziehend auf ihre Fahrzeugtypgenehmigung - die Umweltafordersstufen:  
 The vehicles fulfil - regarding their Whole Vehicle Type Approval (WVTA) - the environmental steps:

Euro (5)  
Euro (5)

Lfd. Nr. Fahrzeug /	Hersteller /	Fabrikmarke /	Handelsbezeichnung /	Fahrzeugtyp und Genehmigungsnummer /	Var. Vers. /	Motortyp 4-Takt /	Hubraum in cm <sup>3</sup> /	Nennleistung kW/min <sup>-1</sup> /	Sonstige bestimmende Merkmale /	Anordnung entspr. Anlage 1 lfd. Nr. /
No. of vehicle	Manufacturer	Trade mark	Commercial description	Vehicle type and no. of homologation	Var. Vers.	Engine type 4-stroke	Engine capacity in cm <sup>3</sup>	max. engine power kW/min <sup>-1</sup>	Additional remarks	Composition as shown in enclosure no. 1
1)	KTM (A)	Husqvarna	Husqvarna 801 Svartpilen	HQV CV1 e1*168/2013*00376*	alle / all	A676	799	77/9250	mit Kat. / with cat. *)	1)2)3a)

\*) Der serienmäßige Katalysator bleibt unverändert im Abgassystem. Eine Verschlechterung des Abgasverhaltens ist nicht zu erwarten. /  
 The original catalytic converter remains in the exhaust system. A degradation of catalyst efficiency is not expected.

NXT22\_2.doc



Prüfbericht Nr. / Test report No.: 24-00007-CM-GBM-00  
 Hersteller / Manufacturer: Remus Innovation GmbH, A-8570 Voitsberg  
 Typ / Type: NXT22



Auto Service

### ANLAGE 3 ENCLOSURE 3

#### Ergebnisse der Geräusch- und Leistungsmessungen / Results of noise testing and power measurements

Lfd. Nr. Fahrzeug	Leistung Serie kW/min <sup>-1</sup>	Leistung Austausch kW/min <sup>-1</sup>	V <sub>max</sub> Serie km/h	V <sub>max</sub> Aus- tausch km/h	Fahrgeräusch in dB(A) / Sound level driving vehicle in dB(A)					Standgeräusch in dB(A) / Sound level stationary vehicle in dB(A)			
					gemessen in Gang	Grenz- wert <sup>1)</sup>	Serie gemes- sen <sup>2)</sup>	Austausch gemessen <sup>2)</sup>	bei km/h	lt. Fzg. BE	Serie gemes- sen <sup>2)</sup>	Austausch gemessen <sup>2)</sup>	bei min <sup>-1</sup>
No. of vehicle	Engine power original kW/min <sup>-1</sup>	Engine power non-original kW/min <sup>-1</sup>	V <sub>max</sub> original km/h	V <sub>max</sub> non original km/h	measured in gear ratio	Limit value <sup>1)</sup>	original mea- sured <sup>2)</sup>	non- original measured <sup>2)</sup>	at km/h	Vehicle type hom.	original mea- sured <sup>2)</sup>	non- original measured <sup>2)</sup>	at min <sup>-1</sup>
1)	77/9250	77/9250	-	-	3 + 4	77	77	77	50	91	92	92	4625

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

2) Betriebsart / Operating mode: Sport

Prüfbericht Nr. / Test report No.: 24-00007-CM-GBM-00  
 Hersteller / Manufacturer: Remus Innovation GmbH, A-8570 Voitsberg  
 Typ / Type: NXT22



Auto Service

## ANLAGE 3 ENCLOSURE 3

### Prüf- und Wetterbedingungen / Test and weather conditions

<b>Gewichte und Abmessungen / Weights and dimensions</b>		
Masse im fahrbereit. Zustand <i>Vehicle kerb weight</i>	<b>m<sub>kerb</sub></b> in kg	180
Testgewicht / <i>Test weight</i>	<b>m<sub>t</sub></b> in kg	255
Fahrzeug- bzw. Bezugslänge / <i>Length of vehicle / reference</i>	<b>l<sub>veh</sub> / l<sub>ref</sub></b> in m	2,1
Leistungsgewicht / <i>Power to mass ratio</i>	<b>PMR</b> in kW/t	301,9
Referenzbeschleunigung / <i>Reference acceleration</i>	<b>a<sub>wot ref</sub></b> in m/s <sup>2</sup>	4,10
Sollbeschleunigung / <i>Target acceleration</i>	<b>a<sub>urban</sub></b> in m/s <sup>2</sup>	1,98
Länge Vorbeschleunigung / <i>Length of pre-acceleration</i>	<b>l<sub>pa</sub></b> in m	0
Benutzter Gang / <i>Tested gear</i>	-	3 + 4
Teillastfaktor / <i>Partial load factor</i>	<b>k<sub>p</sub></b>	0,52
Ganggewichtungsfaktor / <i>Gear weighting factor</i>	<b>k</b>	0,45

<b>Wetterbedingungen / Weather conditions</b>		
Umgebungsgeräusch / <i>Ambient noise</i>	dB(A)	51,3
Differenz zwischen Hintergrundgeräusch und zu messendem Geräusch / <i>Difference between ambient noise and testing noise level</i>	dB(A)	> 10
Windgeschwindigkeit / <i>Wind speed</i>	m/s	< 1,0
Temperatur / <i>Temperature</i>	°C	7

### ANLAGE 3 ENCLOSURE 3

#### Ergebnis der Prüfungen – Seriensystem / Test results - Original system

##### Messungen und Berechnung der Vorbeifahrtmessung / Tests and calculation passby noise level

Gang / Stufe / Gear / Posi- tion	Beschl. Vorbeifahrt / Accel. driving noise level wot <sub>test (i)</sub>				Konstante Vorbeifahrt / Constant driving noise level crt <sub>test (i)</sub>			
	links / left dB(A)	rechts / right dB(A)	a <sub>wot test (i)</sub> m/s <sup>2</sup>	V <sub>P-P'</sub> km/h	links / left dB(A)	rechts / right dB(A)	a <sub>crt test (i)</sub>	V <sub>P-P'</sub> km/h
3	79,6	81,1	4,77	50,6	71,9	73,3	-	50,2
3	80,3	81,6	4,95	49,9	72,0	73,2	-	49,5
3	80,5	81,6	4,79	49,8	72,1	72,9	-	49,8

Gang / Stufe / Gear / Posi- tion	Beschl. Vorbeifahrt / Accel. driving noise level wot <sub>test (i)</sub>				Konstante Vorbeifahrt / Constant driving noise level crt <sub>test (i)</sub>			
	links / left dB(A)	rechts / right dB(A)	a <sub>wot test (i)</sub> m/s <sup>2</sup>	V <sub>P-P'</sub> km/h	links / left dB(A)	rechts / right dB(A)	a <sub>crt test (i)</sub>	V <sub>P-P'</sub> km/h
4	81,3	81,5	3,50	49,4	72,6	73,5	-	50,0
4	81,2	81,7	3,49	50,5	72,7	73,6	-	50,2
4	81,4	81,7	3,53	50,4	72,8	73,6	-	50,1

##### Vorbeifahrtmessung Endergebnis / Passby noise level final result

L <sub>wot rep</sub> dB(A)	81,5	L <sub>crs rep</sub> dB(A)	73,4
L <sub>urban</sub> dB(A)	77,3	Grenzwert / Limit value dB(A)	77

Prüfbericht Nr. / *Test report No.:* 24-00007-CM-GBM-00  
Hersteller / *Manufacturer:* Remus Innovation GmbH, A-8570 Voitsberg  
Typ / *Type:* NXT22



Auto Service

## **ANLAGE 3 ENCLOSURE 3**

### **Ergebnis der Prüfungen – Seriensystem / *Test results - Original system***

#### **Messungen und Berechnung der Vorbeifahrtmessung / *Tests and calculation passby noise level***

##### **Standgeräusch / *Stationary noise level***<sup>1)</sup>

n = 4625min <sup>-1</sup>	links / <i>left</i> dB(A)	rechts / <i>right</i> dB(A)
Test 1	-	92,3
Test 2	-	92,5
Test 3	-	92,1
Ergebnis / <i>Result</i>	<b>92</b>	

Prüfbericht Nr. / Test report No.: 24-00007-CM-GBM-00  
 Hersteller / Manufacturer: Remus Innovation GmbH, A-8570 Voitsberg  
 Typ / Type: NXT22



Auto Service

## ANLAGE 3 ENCLOSURE 3

### Ergebnis der Prüfungen - Austauschsystem / Test results - Replacement system

#### Messungen und Berechnung der Vorbeifahrtmessung / Tests and calculation passby noise level

Gang / Stufe / Gear / Posi- tion	Beschl. Vorbeifahrt / Accel. driving noise level wot <sub>test (i)</sub>				Konstante Vorbeifahrt / Constant driving noise level crt <sub>test (i)</sub>			
	links / left dB(A)	rechts / right dB(A)	a <sub>wot test (i)</sub> m/s <sup>2</sup>	V <sub>P-P'</sub> km/h	links / left dB(A)	rechts / right dB(A)	a <sub>crt test (i)</sub>	V <sub>P-P'</sub> km/h
3	80,8	81,5	4,97	50,1	72,5	73,4	-	50,4
3	80,7	81,4	5,09	50,4	72,4	73,2	-	49,6
3	80,6	81,4	5,01	50,7	72,6	73,3	-	50,2

Gang / Stufe / Gear / Posi- tion	Beschl. Vorbeifahrt / Accel. driving noise level wot <sub>test (i)</sub>				Konstante Vorbeifahrt / Constant driving noise level crt <sub>test (i)</sub>			
	links / left dB(A)	rechts / right dB(A)	a <sub>wot test (i)</sub> m/s <sup>2</sup>	V <sub>P-P'</sub> km/h	links / left dB(A)	rechts / right dB(A)	a <sub>crt test (i)</sub>	V <sub>P-P'</sub> km/h
4	81,2	81,6	3,53	49,5	72,8	73,3	-	49,8
4	81,3	81,6	3,52	49,1	72,6	73,5	-	49,3
4	81,4	81,7	3,71	50,0	73,0	73,5	-	49,6

#### Vorbeifahrtmessung Endergebnis / Passby noise level final result

L <sub>wot rep</sub> dB(A)	81,5	L <sub>crs rep</sub> dB(A)	73,4
L <sub>urban</sub> dB(A)	77,3	Grenzwert / Limit value dB(A)	77

Prüfbericht Nr. / *Test report No.*: 24-00007-CM-GBM-00  
Hersteller / *Manufacturer*: Remus Innovation GmbH, A-8570 Voitsberg  
Typ / *Type*: NXT22



Auto Service

## **ANLAGE 3 ENCLOSURE 3**

### **Ergebnis der Prüfungen - Austauschsystem / *Test results - Replacement system***

#### **Messungen und Berechnung der Vorbeifahrtmessung / *Tests and calculation passby noise level***

##### **Standgeräusch / *Stationary noise level***<sup>1)</sup>

n = 4625 min <sup>-1</sup>	links / <i>left</i> dB(A)	rechts / <i>right</i> dB(A)
Test 1	-	92,1
Test 2	-	92,3
Test 3	-	92,3
Ergebnis / <i>Result</i>	<b>92</b>	

<sup>1)</sup> gemäß Anhang 3 Anlage 2 der ÄS 04 der Regelung Nr. 41 /  
*in accordance with Annex 3, Appendix 2 of the 04 series of amendments to Regulation No 41*

NXT22\_3.doc



# Beschreibungsmappe Information folder

<b>Beschreibungsmappe Nr. NXT22</b> für die EU-Typgenehmigung einer lärmmindernden Einrichtung als selbständige technische Einheit (STE) gemäß Artikel 27 der Verordnung (EU) Nr. 168/2013	<b>Datum / date</b> 04.03.2024 geändert / <i>modified</i>
<b>Information folder No. NXT22</b> relating to type-approval of a noise-abatement device as a separate technical unit (STU) according to article 27 of the Regulation (EU) no. 168/2013	<b>Blatt 1 von 1 /</b> <b>Sheet 1 of 1</b>

## Inhaltsverzeichnis / *table of contents:*

	Zeichnungs-Nr. <i>Drawing – no.</i>	Datum <i>date</i>
Beschreibungsbogen / <i>Information document</i>	NXT22/00	04.03.2024
Zeichnung Schalldämpfer / <i>Drawing of silencer</i>	24ESD20021.1	20.02.2024
Stückliste / <i>Parts list</i>	24ESD21021.2	21.02.2024
Zeichnung Gesamtanlage / <i>Drawing noise reduction system</i>	24ESD20021.3	20.02.2024
Montageanleitung / <i>Mounting instructions</i>	Husqvarna 801 Svartpilen	
ASEP Erklärung / <i>ASEP Statement</i>		04.03.2024

**Ort / *place:*** Voitsberg

**Datum / *date:*** 04.03.2024

**Unterschrift / *signature***

**Name und Stellung im Unternehmen /**

***Name and position in the company:***

Stephan Zöchling, CEO

<b>Beschreibungsbogen Nr. NXT22</b> <b>für die EU-Typgenehmigung eines Abgassystems</b> <b>(lärmmindernden Einrichtung) als STE</b> <b>gemäß Artikel 27 der Verordnung (EU) Nr. 168/2013</b>	<b>Datum / date</b> <b>04.03.2024</b> <b>geändert / modified</b>
<b>Information document No. NXT22</b> <b>relating to EU type-approval of an exhaust (noise-abatement device) as a STU</b> <b>according to article 27 of the Regulation (EU) no. 168/2013</b>	<b>Blatt 1 von 3 /</b> <b>Sheet 1 of 3</b>

**B Allgemeine Angaben zu Systemen, Bauteilen und selbständigen technischen Einheiten**  
**General information concerning systems, components or separate technical units**

- 0.7 Fabrikmarke(n) (Firmenname(n) des Herstellers) : REMUS  
*Make(s) (trade name(s) of manufacturer)*
- 0.8 Typ : NXT22  
*Type*
- 0.8.1 Handelsname(n) (sofern vorhanden) : N/A  
*Commercial name(s) (if available)*
- 0.8.2 Typgenehmigungsnummer(n), sofern vorhanden : E24\*92R02/00\*0091\*00  
*Type-approval number(s) (if available)*
- 0.8.3 Typgenehmigung(en) erteilt am (Datum, falls bekannt) : N/A  
*Type-approval(s) issued on (date, if available)*
- 0.9 Firmenname und Anschrift des Herstellers : Remus Innovation GmbH  
*Company name and address of manufacturer*  
Ruhmannstraße 11  
A-8570 Voitsberg
- 0.9.1 Name(n) und Anschrift(en) der Fertigungsstätte(n) : Remus Innovation Forschungs- und  
*Name(s) and address(es) of assembly plants*  
Abgasanlagen Produktions GmbH  
Dr. Niederdorferstraße 25  
A-8572 Bärnbach  
  
Remus Innovation GmbH  
Ruhmannstraße 11  
A-8570 Voitsberg
- 0.9.2 Gegebenenfalls Name und Anschrift des Bevollmächtigten des : N/A  
Herstellers  
*Name and address of manufacturer's authorised representative, if any*
- 0.10 **Fahrzeug(e), für welche(s) das System/die selbständige technische Einheit bestimmt ist**  
**Vehicle(s) for which the system/separate technical unit is intended for**
- 0.10.1 Typ : HQV CV1  
*Type*
- 0.10.2 Variante : A  
*Variant*
- 0.10.3 Version : N/A  
*Version*
- 0.10.4 Handelsname(n) (sofern vorhanden) : Husqvarna 801 Svartpilen  
*Commercial name(s) (if available)*
- 0.10.5 Klasse, Unterklasse und Unter-Unterklasse des Fahrzeugs : L3e-A3  
*Category, subcategory and sub-subcategory of vehicle*

**C Allgemeine Angaben zur Übereinstimmung der Produktion und zum Zugang zu Reparatur- und**  
**Wartungsinformationen**  
**General information regarding conformity of production and access to repair and maintenance information**

**1. ALLGEMEINE BAUMERKMALE**  
**GENERAL CONSTRUCTION CHARACTERISTICS**

- 1.8 Leistung der Antriebseinheit  
*Propulsion unit performance*
- 1.8.1 Angegebene Höchstgeschwindigkeit des Fahrzeugs : 224 km/h  
*Declared maximum vehicle speed*
- 1.8.2 Bauartbedingte Höchstgeschwindigkeit des Fahrzeugs und Gang, : 6 Gang / Gear  
in dem diese erreicht wird

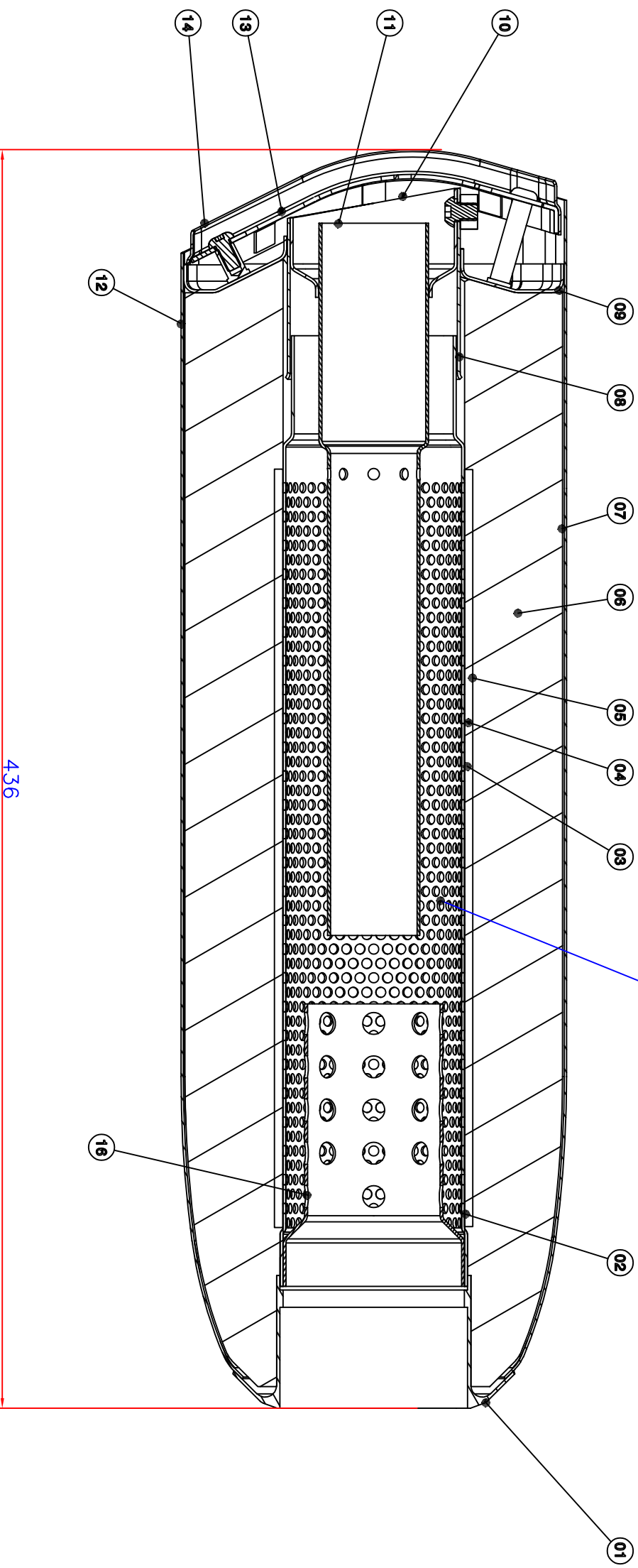
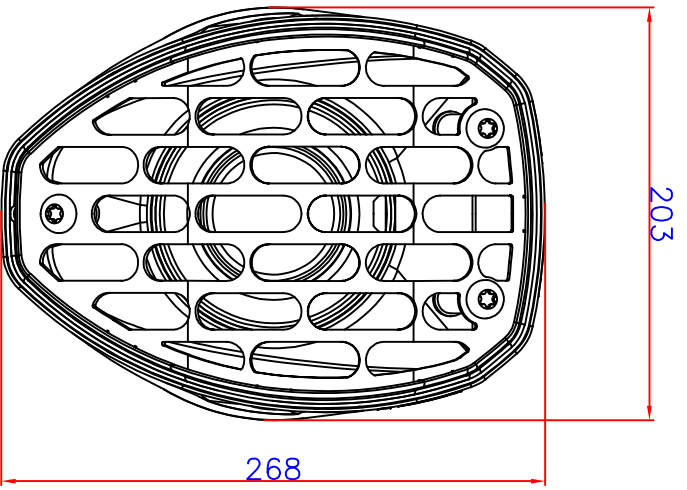


<b>Beschreibungsbogen Nr. NXT22</b> <b>für die EU-Typgenehmigung eines Abgassystems</b> <b>(lärmmindernden Einrichtung) als STE</b> <b>gemäß Artikel 27 der Verordnung (EU) Nr. 168/2013</b>	<b>Datum / date</b> <b>04.03.2024</b> <b>geändert / modified</b>
<b>Information document No. NXT22</b> <b>relating to EU type-approval of an exhaust (noise-abatement device) as a STU</b> <b>according to article 27 of the Regulation (EU) no. 168/2013</b>	<b>Blatt 2 von 3 /</b> <b>Sheet 2 of 3</b>

	<i>Maximum design vehicle speed and gear in which it is reached</i>	see WVTA
1.8.3	Maximale Nutzleistung des Verbrennungsmotors bei Luft/Kraftstoff-Verhältnis <i>Maximum net power combustion engine at AF-ratio</i>	: 77 kW@ 9250 min <sup>-1</sup> L/K-Verhältnis 0,88 77 kW @ 9250 min <sup>-1</sup> A/F-ratio 0,88
1.8.4	Maximales Nutzdrehmoment des Verbrennungsmotors at AF-ratio bei Luft/Kraftstoff-Verhältnis <i>Maximum net torque combustion engine</i>	: 87 Nm@ 8000 min <sup>-1</sup> L/K-Verhältnis 0,95 87 Nm @ 8000 min <sup>-1</sup> A/F-ratio 0,95
1.8.5	Maximale Nenndauerleistung des Elektromotors (Leistung über 15/ 30 Minuten ) <i>Maximum continuous-rated power electric motor (15/30 minutes          power)</i>	: N/A
1.8.6	Maximales Nenn-Dauerdrehmoment des Elektromotors <i>Maximum continuous-rated torque electric motor</i>	: N/A
1.8.7	Maximale Dauer-Gesamtleistung des Antriebs (der Antriebe) <i>Maximum continuous total power for propulsion(s)</i>	: N/A
1.8.8	Maximales Dauer-Gesamtdrehmoment des Antriebs (der Antriebe) <i>Maximum continuous total torque for propulsion(s)</i>	: N/A
1.8.9	Maximale Spitzenleistung des Antriebs (der Antriebe) <i>Maximum peak power for propulsion(s)</i>	: N/A
<b>4.0</b>	<b>Allgemeine Angaben zu Umweltverträglichkeit und Antriebsleistung</b>	
	<b>General information on environmental and propulsion performance</b>	
4.0.6	Geräuschpegel	
	<i>Sound level</i>	
4.0.6.1	Grenzwert für L <sub>Urban</sub> [dB(A)]	: 77
	<i>Limit value for L<sub>Urban</sub></i>	
<b>4.4</b>	<b>Zusätzliche Angaben zu Umweltverträglichkeit und Antriebsleistung</b>	
	<b>Additional information on environmental and propulsion unit performance</b>	
4.4.4	Dieser Beschreibungsbogen ist in Bezug auf die lärmmindernden Einrichtungen durch den geltenden Beschreibungsbogen gemäß der UNECE-Regelung Nr. 92 zu ergänzen. <i>Applicable information document set out in respectively UN Regulation No 92 shall supplement this information document with regards to the noise-abatement devices installed on the vehicle.</i>	
	Kraftrad	
	<i>Motorcycle</i>	
	Marke (Handelsname des Herstellers)	: Husqvarna
	<i>Make (Trade name of manufacturer)</i>	
	EU-Typengenehmigungsnummer	: e1*168/2013*00376*..
	Ab Baujahr	: 2024
	<i>From model year</i>	
	Verbrennungsmotor	
	<i>Combustion engine</i>	
	Baumusterbezeichnung gemäß Kennzeichnung am Motor oder sonstige Identifizierungsmerkmale	: A676
	<i>Engine code (as marked on the engine or other means of identification)</i>	
	Maximale Nennleistung [kW/min <sup>-1</sup> ]	: 77 / 9250
	<i>rated maximum net power</i>	

<b>Beschreibungsbogen Nr. NXT22</b> für die EU-Typgenehmigung eines Abgassystems (lärmmindernden Einrichtung) als STE gemäß Artikel 27 der Verordnung (EU) Nr. 168/2013	Datum / <i>date</i> 04.03.2024 geändert / <i>modified</i>
<b>Information document No. NXT22</b> <i>relating to EU type-approval of an exhaust (noise-abatement device) as a STU according to article 27 of the Regulation (EU) no. 168/2013</i>	Blatt 3 von 3 / Sheet 3 of 3

Arbeitsweise <i>Working principle</i>	: Fremdzündung / <del>Selbstzündung</del> <i>positive ignition / <del>compressed</del></i> <i>ignition</i>
Arbeitsweise <i>cycle</i>	: Viertakt <i>four stroke</i>
Hubvolumen <i>Enginge capacity</i>	[cm³] : 799
Kraftübertragung <i>Drive-train</i>	Kette <i>chain</i>
Getriebe <i>Transmission</i>	: Manuell <i>manual</i>
Anzahl der Gänge <i>Number of gears</i>	: 6
Übersetzungsverhältnisse <i>Gear ratios</i>	I : 2,84 II : 2,00 III : 1,55 IV : 1,27 V : 1,08 VI : 0,95 VII : -
Antriebsübersetzung <i>Final drive</i>	: 2,563



Innenrohr gelocht  
 Ø63x1,2±0,3x330±10  
 2080+10% -5% Löcher Ø3,5mm  
 inner pipe perforated  
 Ø63x1,2±0,3x330±10  
 2080 +10%-5% holes Ø3,5mm

Datum	Name	Zeichnungnr	R E M U S
Gez.: 20.02.24	WB	24ESD20021.1	Typ: NXT22
Gepr.: 23.02.24	ZM		
Geöhn.:		Gepr.:	


Schalldämpfer für HQV 801 Naked



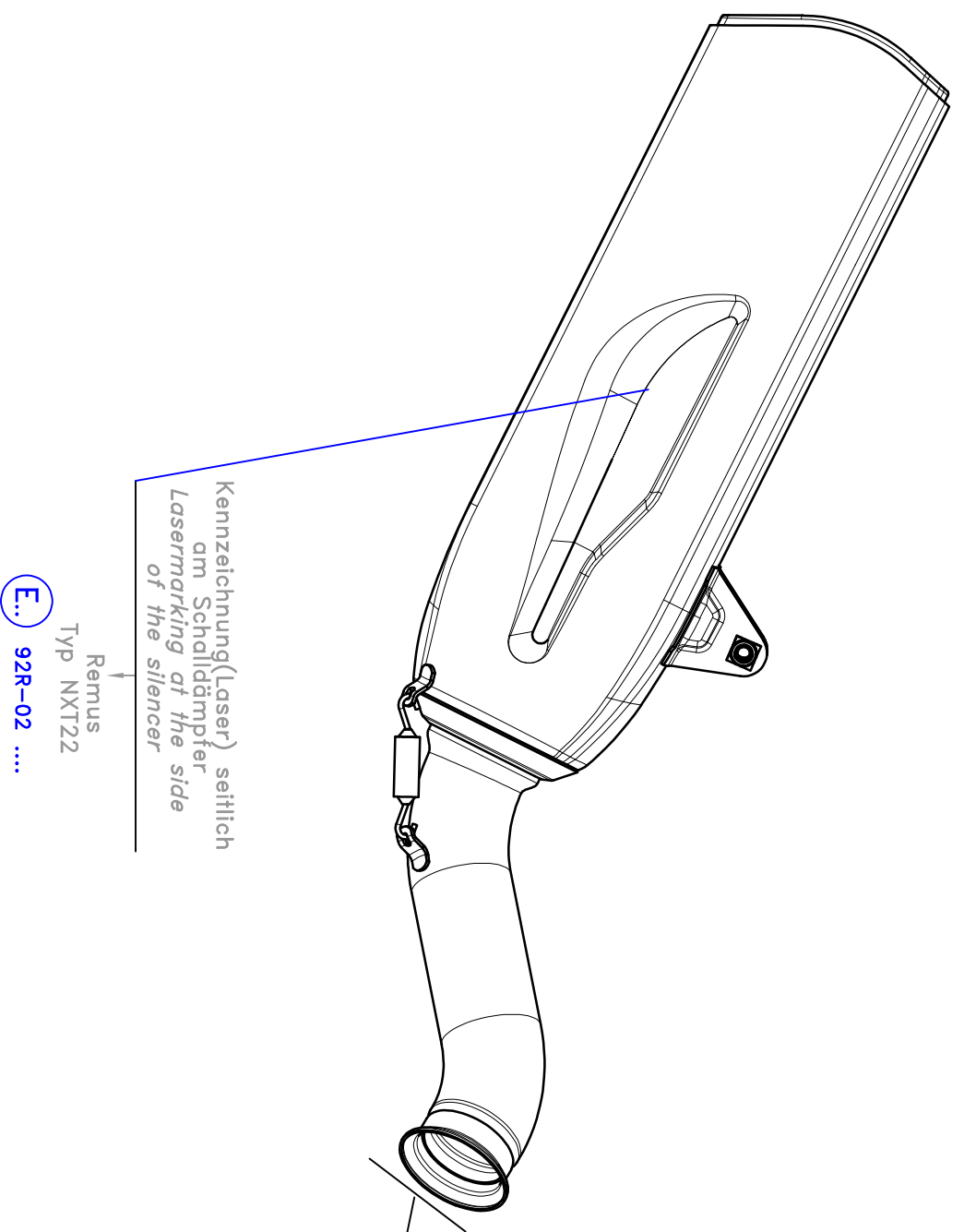
## STÜCKLISTE / parts list

Pos. Nr.	Benennung	Norm	Abmessungen	Werkstoff	Stk.	Einheit
pos. Nr.	description	standard	dimensions	material	pcs.	unit.
1	Einlasshülse inlet sleeve	DIN2465	Ø98/Ø65±0,5x1,2±0,3x46±5	A opt. B	1	mm
2	Innenrohr inner pipe	DIN2465	Ø63±0,2x1,2±0,3x330±5	A opt. B	1	mm
3	Drahtgitter innen inside wire mesh		230±15x270±15	A opt. B	1	mm
4	Stahlwolle steel wool		100+20%-10%		1	g
5	Drahtgitter außen outside wire mesh		180±15x200±10	A opt. B	1	mm
6	Wicklung damping material		380±15x900±15	A opt. B	1	mm
7	Thermoglasgewebe thermoglass mat		400±15x300±15		2	g
8	Auslasshülse outlet sleeve	DIN2465	Ø60x1±0,3x65±5	A opt. B	1	mm
9	Auslassdeckel outlet cap	DIN1541	96±3x132±3x1,2±0,3x16±3	A opt. B	1	mm
10	dB Killer-Hülse dB Killer sleeve	DIN2465	Ø58/Ø35,5x1±0,3x38,5±3	A opt. B	1	mm
11	dB Killer-Innenrohr dB Killer inner pipe	DIN2465	Ø32±0,3x247±3	A opt. B	1	mm
12	Mantel shell	DIN1541	102±5x134±5x1,5±0,3x420±10	A opt. B	1	mm
13	Auslassgitter outlet grill	DIN1541	128±1x91,5±1	A opt. B	1	mm
14	Auslassring outlet ring	DIN1541	132±5x94±5	A opt. B	1	mm
15	Verbindungsrohr connection pipe	DIN2465	Ø54±4x1,2±0,3x275±10	A opt. B	1	mm
16	Einschub sound insert	DIN2465	Ø48±3x1±0,2x98±5	A opt. B	1	mm

Werkstoff/material	Variante/variant
Stahl aluminisiert / steel aluminized	A
Edelstahl / stainless steel 1.4301;1.4509;1.4512	B

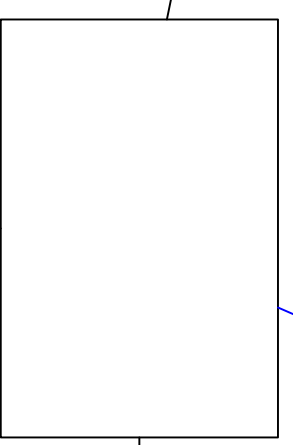
	Datum/date	Name	Zeichnungsnr/drawing-no	REMUS	
Gez.:	21.02.2024	WB	24ESD21021.2	Typ NXT22	
Gep.:	23.02.2024	ZM			
Geä.:					
Schalldämpfer für Motorrad/silencer for motorcycle					

**E24\*92R02/00\*0092\*00**



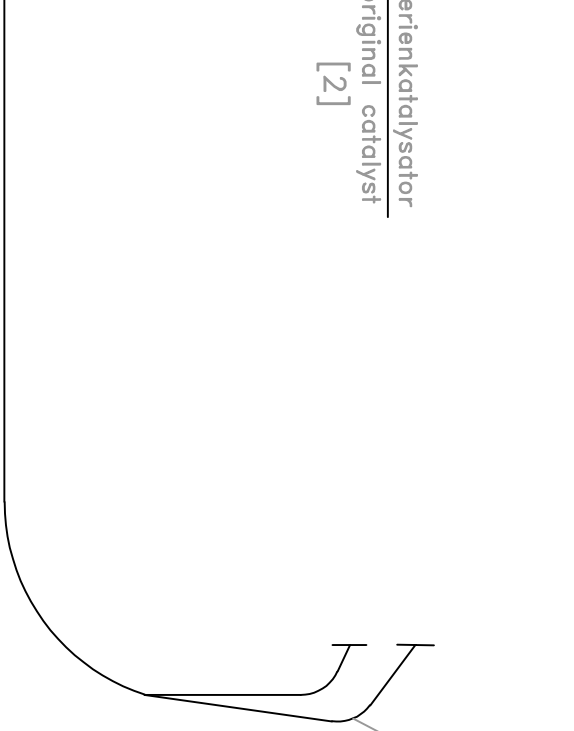
Kennzeichnung(Laser) seitlich  
am Schalldämpfer  
*Lasermarking at the side  
of the silencer*

Remus  
Typ NXT22  
E... 92R-02 ....



Serienkatalysator  
original catalystr  
[2]

Vorschalldämpfer[3]  
*presilencer original part[3]*



Krümmer Originalteil [1]  
*manifold, original part*

	Datum	Name	Zeichnungnr	R E M U S
Gez.:	20.02.24	WB	24ESD20021.3	Typ: NXT22
Gepr.:	23.02.24	ZM		
Geñh.:			Gepr.:	

Schalldämpfer für HQV 801 Naked



ENG

# INSTALLATION INSTRUCTIONS

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A67605979500

# SYMBOLS

The following symbols are used throughout these installation instructions:



**TOOLS AND PROTECTIVE EQUIPMENT REQUIRED**



**TIGHTENING TORQUE**



**LUBRICATION**



**HAND TIGHTEN**



**INSTALLATION TIP**



**CAUTION OR IMPORTANT**



**MOVEMENT ARROW**



**INDICATOR ARROW**



## **CERAMIC PASTE**

For lubrication and corrosion protection on screws, bolts, fits and pins. Free of standard and heavy metals, prevents sticking and seizing, neutral to all known sealing materials, non toxic, up to +1400°C heat resistant, short term up to +1600°C, prevents wear and tear.



## **TOOLS AND EQUIPMENT**

Use appropriate safety equipment like eye protection and mechanic gloves! Use appropriate and working tools for mounting and dismantling of the exhaust system.



We congratulate you on buying a product from REMUS and thank you for your trust. We are always striving to offer the very best product for your vehicle through continuous innovation processes and usage of the latest technologies.

# READ THIS

**Please read this entire installation manual carefully prior to installing and using the REMUS exhaust system.**

REMUS exhaust system should only be installed by persons skilled in car/motorcycle exhaust system installation and performance. The instructions provided in this manual should be followed to ensure proper installation and safe use of the REMUS exhaust system. REMUS and/or its partners shall not be held liable for any damage or personal injury (including direct, indirect, or consequential damage) sustained as a result of improper installation of the REMUS exhaust system or its use and maintenance contrary to the instructions and warnings contained herein.

If you have any questions regarding the installation and/or proper use of the REMUS exhaust system or this manual, please contact your local REMUS partner.

For more information on the REMUS exhaust systems, see the official REMUS website at: <http://www.remus.eu>

## GENERAL INFORMATION

Your safety is our number one priority. Please drive your car/motorcycle responsibly, safely and always obey local traffic rules.

All statements made with regard to the exhaust system's compliance are made in respect of the exhaust system "as is". Any modifications of the REMUS exhaust system or its improper installation, use or maintenance that is not in accordance with this Installation manual, may result in severe damage to the exhaust system and/ or engine, as well as personal injury, and may affect the exhaust system's compliance with the legal requirements, such as exhaust system's air and/ or noise emissions (as an example, the car/motorcycle may not be suitable for use on public roads any longer), as well as warranty coverage.

**If the REMUS exhaust system is manipulated in any way, the type approval is no longer valid!**

The exhaust system may only be used in accordance with relevant laws and regulations, including state and federal, where applicable.

Damage caused by improper installation, use and maintenance of the REMUS exhaust system is not covered by the REMUS warranty. Please refer to the enclosed warranty with regard to the terms of our warranty.

Technical specifications of REMUS exhaust systems and related products are subject to change without notice.





# RIGHTS & NOTES

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The same especially applies to the entire contents of this manual and/or any of its parts, including but not limited to technical specifications, instructions, graphs, photographs, and so on included in this manual.

The photographs and other illustrations in this manual are symbolic and are intended to help represent individual steps for proper installation and use, as well as for a general overview.

The actual component parts of the REMUS exhaust system may not entirely correspond to the photographs and other illustrations.

REMUS takes all copyright and other rights infringement cases under serious consideration. If you have any reason to believe that your exhaust system is not an original REMUS product, please contact our local partners or REMUS at [office@remus.at](mailto:office@remus.at)



# SAFETY WARNINGS

## IMPORTANT SAFETY WARNINGS, PLEASE READ CAREFULLY

The car/motorcycle should be in the off position throughout the whole dismantling and mounting process, as well as any other work done on the exhaust system!

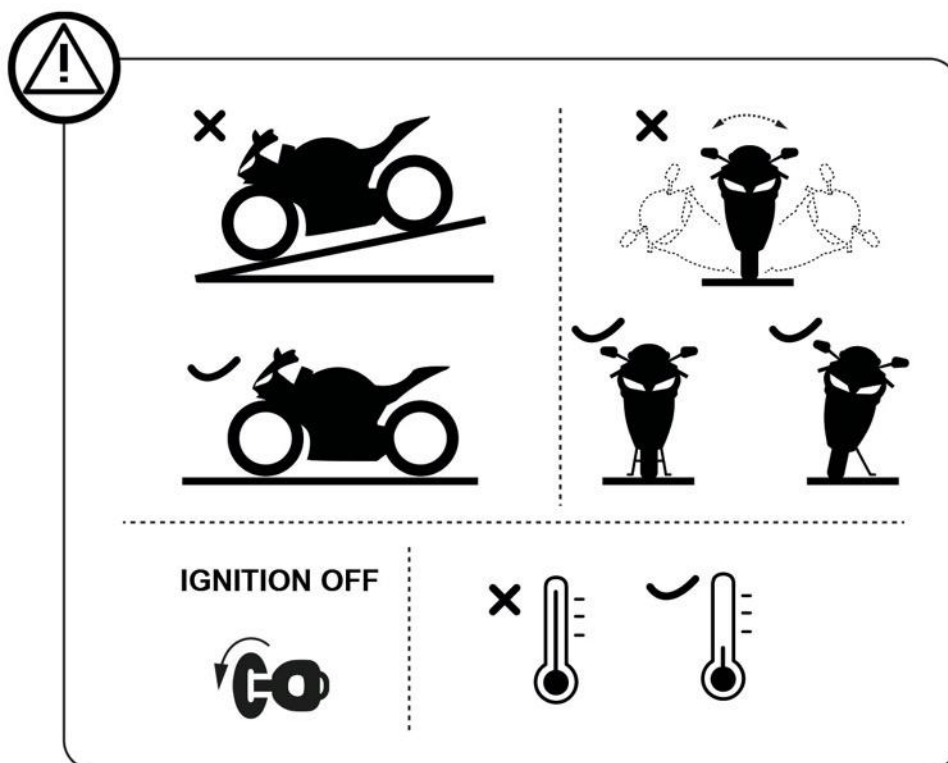
Before dismantling the exhaust system, lock the car/motorcycle and remove the key from the vehicle to avoid electrical errors in the control units!

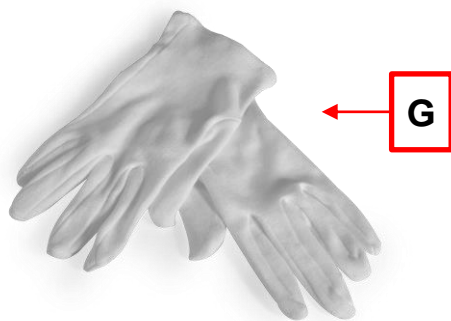
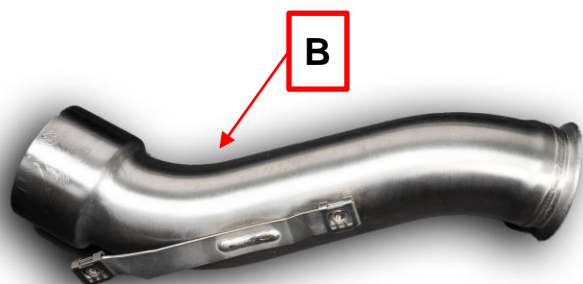
For proper dismantling and mounting of the exhaust system, it is recommended to use an certificated and tested lifting device.

The exhaust system can get extremely hot during and after it is used. Allow the exhaust and engine to cool down before touching it and beginning installation.

Make sure that you have all the parts necessary for the installation of your new REMUS exhaust system, according to the parts list in this manual. If any of the parts are missing, please do not proceed with uninstalling your stock exhaust system/installing the REMUS exhaust system and contact the retailer you bought the REMUS exhaust system from.

**CAUTION:** make sure not to injure yourself or damage any part of the vehicle during dismantling and mounting of the exhaust systems!





pos	pcs	packing content
A	1	sport exhaust
B	1	connection tube
C	1	spring
D	3	screw M5
E	1	heat shield
F	1	ceramic paste
G	1	pair of gloves



# REMOVAL

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## OF STOCK EXHAUST SYSTEM:

The process of uninstalling the original exhaust system may vary depending on the existing exhaust system. Please follow the original exhaust system manufacturer's instructions for uninstalling the original exhaust system.

If you for any reason decide otherwise, please note that any information provided in this respect herein should be considered as general information provided for your convenience only.

REMUS shall not assume any liability or responsibility with regard to uninstalling your existing exhaust system, warranty coverage of such exhaust system or vehicle or their further fitness for use.



## REMOVAL OF STOCK EXHAUST SYSTEM:



Take off the serial muffler by loosening the clamp and bracket screw.





# INSTALLATION OF THE REMUS EXHAUST SYSTEM

Install the REMUS connection tube on the serial pre silencer using the serial clamp.

 Only hand-tighten the clamp!



Slip on the REMUS sport exhaust onto the connection tube, screw the bracket and hook the spring.

 **Only hand-tighten the screw!**



Align the REMUS sport exhaust and tighten all connections.  
Mount the REMUS heat shield onto the muffler.



# FINAL STEPS

**IMPORTANT:** reinstall the dismantled or partially removed stock parts (wheel arches, bumper etc.); check vehicle manufacturer manual for tightening torques.

**IMPORTANT:** make sure all the nuts and bolts are sufficiently tightened. In case the exhaust system touches the cowl or other parts, repeat the adjustment of the exhaust system or contact your authorized dealer.

**IMPORTANT:** clean all exhaust components before the first start of the engine or the stains will burn onto the surfaces!

# TROUBLESHOOTING

Problem	Possible cause	Solution
Exhaust gas is leaking out of the exhaust system	loosened clamp	tighten all connections to specified torque
	connection is not completely joined	loosen the connection and tap it into place, tighten the connection to specified torque
Valve is not working / moving	Valve is mechanical stuck	Remove the actuator and try to move the valve by hand. Use spray lubricant (WD-40® or equivalent) to make the valve working again.
	Valve is not working correct	Make sure the actuator is powered correctly. Make sure the actuator is mounted properly onto the valve and the valve spins correctly.
Exhaust system rattles / doesn't fit properly	Exhaust System is not mounted correct	loosen all connections again and readjust/align the whole system once more





# MAINTENANCE

## **STAINLESS STEEL PARTS:**

Clean stainless steel components with soft cloth sprayed with contact cleaner, then wipe with soft and dry cloth.

## **CARBON PARTS:**

Clean carbon fiber exhaust components with soft and dry cloth.

## **TITANIUM PARTS:**

Clean the titanium exhaust components with a multi-purpose spray lubricant (WD-40® or equivalent).

A change in the color of the exhaust system is normal due to high temperatures. Periodically make sure all the bolts and springs are sufficiently tight.



**IT IS NORMAL FOR WHITE SMOKE TO COME OUT OF THE MUFFLER AT FIRST OPERATION.**

**⚠ CAUTION: DO NOT STAND BEHIND THE MUFFLER AT ANY TIME.**

**⚠ CAUTION: DO NOT USE AUTOMOTIVE WHEEL CLEANERS OR ANY CLEANING PRODUCTS WHICH CONTAIN ACIDIC ADDITIVES TO CLEAN THE REMUS EXHAUST SYSTEMS.**



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 **REMUS Innovation GmbH**  
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A-8570 Voitsberg

## Annex 4

### Statement of Compliance with the Additional Sound Emission Provisions

(Maximum format: A4 (210 x 297 mm))

This statement is required for non-original replacement exhaust silencing systems (NORESS):

- (a) with multiple, manually or electronically adjustable, rider selectable operating modes or variable geometries;
- (b) without multiple, manually or electronically adjustable, rider selectable operating modes or without variable geometries specified for the use on L<sub>3</sub> category vehicles that are type approved pursuant to the amendments to UN Regulation No. 41 and are subject to the ASEP-requirements series of amendments to UN Regulation No. 41.<sup>1</sup>

Remus (Name of manufacturer) attests that the non-original replacement exhaust silencing systems of this type NXT22 (type with regard to its sound emission pursuant to the ...<sup>2</sup> series of amendments to UN Regulation No. 41) comply with the applicable ASEP requirements of UN Regulation No. 41 during the type approval procedure and its production.

Remus (Name of manufacturer) makes this statement in good faith, after having performed an appropriate evaluation of the sound emission performance of the non-original replacement exhaust silencing system in accordance with the requirements of UN Regulation No. 92 during the type approval procedure and its production.

Date: 04.03.2024

Name of authorized representative: ..... POLAR FUELIN .....

Signature of authorized representative: .....  .....

<sup>1</sup> Delete the bullet point that does not apply.

<sup>2</sup> Fill in the series of amendments to UN Regulation No. 41, which the NORESS apply.