

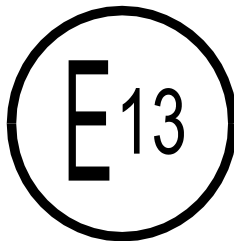


Référence: E13*59R02/01*0042A*02

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Luxembourg, le 08 mai 2020

Communication concernant:⁽²⁾
Communication concerning:



- la délivrance d'une homologation
approval granted
- l'extension d'homologation
approval extended
- le refus d'homologation
approval refused
- le retrait d'homologation
approval withdrawn
- l'arrêt définitif de la production
production definitely discontinued

d'un type de dispositif silencieux d'échappement de remplacement ou d'élément d'un tel dispositif en application du Règlement N° 59.

of a type of replacement silencing system or components of the said system pursuant to Regulation No. 59.

Numéro d'homologation par type:
Approval number:

E13*59R02/01*0042A*02

- 1. Marque de fabrique ou de commerce du dispositif silencieux d'échappement:**
Trade name or mark of the exhaust silencing system: APR
Stoll GmbH
- 2. Type du dispositif silencieux d'échappement:**
Type of the exhaust silencing system: APR 253 609
- 3. Nom et adresse du fabricant:**
Manufacturer's name and address: Stoll GmbH
Porschestraße 1
D-79761 Waldshut-Tiengen
- 4. Le cas échéant, nom et adresse de son mandataire:**
If applicable, name and address of manufacturer's representative: Not applicable
- 5. Description sommaire du dispositif silencieux (avec/sans ⁽²⁾ / matériaux fibreux, etc.):**
Brief description of the exhaust silencing system (with/without ⁽²⁾ / fibrous material, etc.): Centre- and rear-silencer with fibrous material; absorption / reflection principle.

- 6. Marque de fabrication ou de commerce du type de véhicule auquel le dispositif silencieux est destiné:**
Trade name or mark of the vehicle type for which the exhaust silencing system is intended: Volkswagen, Seat, Audi and Skoda
- 7. Type de ce véhicule, à commencer par le numéro de série:**
Vehicle type, starting from serial number: PDE, serial number: not applicable
- 8. Principe de fonctionnement du moteur (à allumage commandé, à allumage par compression etc.):**
Kind of engine: Positive-ignition
- 9. Cycle ⁽²⁾:**
Cycles ⁽²⁾: ~~Two-stroke~~ / Four stroke
- 10. Cylindrée:**
Cylinder capacity: See appendix 2/02
- 11. Puissance maximale du moteur (kW):**
Rated maximum net power (kW): See appendix 2/02
- 12. Nombre de rapports de la boîte de vitesses:**
Number of gears: See appendix 3/02
- 13. Rapport(s) de la boîte de vitesses utilise(s):**
Gears used: See appendix 3/02
- 14. Rapport(s) du pont:**
Final drive ratio(s): See appendix 3/02
- 15. Régime de puissance maximale:**
Rated maximum net power: See appendix 2/02
- 16. Conditions de charge du véhicule pendant l'essai:**
Load conditions of vehicles during test: A: 1408 kg
B: 1430 kg
C: 1355 kg
D,E: 1393 kg
- 17. Valeurs du niveau sonore:**
Sound levels:
- 17.1 - Véhicule en marche [db(A)]:**
Vehicle in motion [dbA]: See appendix 3/02
- 17.2 - Véhicule à l'arrêt [db(A)] à [tr/min]:**
Vehicle stationary [dbA] with engine running at [rpm]: See appendix 3/02
- 18. Valeur de la contre-pression:**
Value of the back pressure: See appendix 3/02
- 19. Dispositif silencieux présenté**
Exhaust silencing system submitted
- à l'homologation le:**
for approval on: A: 07.02.2018, 20.08.2018
- à l'extension de l'homologation le:**
for extension of approval on: B: 11.09.2019, 08.10.2019
C: 20.11.2019
D, E: 26.03.2020

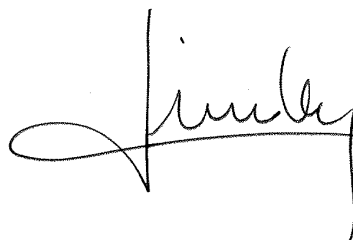
20. **Autorité déléguée:**
Assigned authority: *Société Nationale de Certification et d'Homologation L-5201 Sandweiler*
- Service technique chargé des essais d'homologation:**
Technical service responsible for conducting approval tests: TÜV Rheinland Luxemburg GmbH s.à.r.l.
2-4 rue Edmond Reuter
L – 5326 Contern
21. **Date du procès-verbal émis par ce service:**
Date of report issued by that service: 27.04.2020
22. **Numéro du procès-verbal émis par ce service:**
Number of report issued by that service: TS-R59-003/18, Ext.02
23. **L'homologation est ⁽²⁾:**
Approval: ~~Granted~~ / extended / ~~refused~~ / ~~withdrawn~~
24. **Emplacement sur le dispositif silencieux de la marque d'homologation:**
Position of approval mark on the vehicle: Engraved onto the exhaust silencers outer shell
25. **Lieu:**
Place: Luxembourg
26. **Date:**
Date: 08 mai 2020
27. **Signature:**
Signature:

Pour le Ministre de la Mobilité
et des Travaux publics



Alain DISVISCOUR
Conseiller

Pour la SNCH



Laurent LINDEN
Directeur opérationnel



28. **Sont annexes à la présente communication les pièces suivantes qui portent le numéro d'homologation indiqué ci-dessus:**

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

- **dessins, schémas et plans du dispositif silencieux d'échappement**
- drawings, diagrams and plans of the silencing system
- **photographies du dispositif silencieux d'échappement**
- photographs of the exhaust silencing system
- **bordereau des éléments, dûment identifiés, formant le dispositif silencieux**
- list of components, duly identified constituting the exhaust silencing system

² **Biffer la mention qui ne convient pas**
Strike out what does not apply



Référence: E13*59R02/01*0042A*02

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Luxembourg, le 08 mai 2020

Index du dossier d'homologation

Index to type-approval report

	Numéro d'homologation: Approval number:	E13*59R02/01*0042A*02
	Révision: Revision:	00
	Marque de fabrication ou de commerce: Trade name or mark:	APR Stoll GmbH
	Type: Type:	APR 253 609
1.	Procès-verbal d'essai: Test report:	N° TS-R59-003/18, Ext.02
	- Test report:	Page 1 to 7
	- List of modification:	Appendix 0 - Page 8
	- Technical information:	Appendix L - Page 9 & 10
	- Composition of the separate technical unit:	Appendix 1/02 - Page 11
	- Range of application:	Appendix 2/02 - Page 12 to 16
	- Test results:	Appendix 3/02 - Page 17
2.	Dossier du constructeur: Report of the manufacturer:	N° APR 253 609-02
	- Manufacturer's information document:	Page <u>1</u> to <u>3</u>
	- Appendices:	Refer to page <u>3</u>
3.	Autres documents annexés: Other documents annexed:	Not applicable
4.	Date de délivrance de l'homologation initiale: Date of issue of initial type approval:	06.09.2018
5.	Date de la dernière délivrance de pages révisées: Date of last issue of revised pages:	Not applicable
6.	Date de la dernière délivrance d'une homologation révisée: Date of last extension:	08.05.2020

Vehicle type / Type : **APR 253 609**
Manufacturer : **Stoll GmbH**

TEST REPORT

according to: UNECE Regulation No. 59

Uniform provisions concerning the approval of replacement silencing system

as last amended by

02 series of amendments of the Regulation, Supplement 01

Previously granted

UNECE approval : E13*59R02/01*0042A***01**

Structure of the Test Report

Item No.

- | | |
|----|-------------------------------|
| 0. | General information |
| 1. | Tested vehicle(s) / object(s) |
| 2. | Test record |
| 3. | Appendices |
| 4. | Statement of conformity |
-

The Test Report shall be reproduced and published in full by the client only. It shall however be reproduced and published partially with the written permission of the Testing Laboratory only.

Vehicle type / Type : APR 253 609
 Manufacturer : Stoll GmbH

0. General information

- 0.1. Make (trade name of the manufacturer) : APR
Stoll GmbH
- 0.2. Type : APR 253 609
- 0.3. Category of vehicle : M1
- 0.4. Name and address of the manufacturer : Stoll GmbH
Porschestraße 1
79761 Waldshut-Tiengen
Germany
- 0.5. No. of the information document : APR 253 609-02
 - Date of issue : 15.04.2020
 - Date of last change : -

1. Tested vehicle(s) / objects

- 1.1. Description : The tests were performed in two series A and **E**
- 1.1.1. Test vehicle (A) : Test series A
- Make : Volkswagen AG
- Type(s) / variant s) / version (s) : AU
GAC4CHHAX0 /
FD6FD6D9011S7MM0N1ML72VR2
- General commercial description : Golf
- Identification number : WVVZZZAUZH316758
- Category of vehicle : M1
- Vehicle type approval number : e1*2007/46*0623*25
- Power plant
- Manufacturer of engine : Volkswagen AG
- Manufactures engine code : CHHA
- Rated maximum net power : 169 kW at 4700 min⁻¹
- Mass in running order (m_{ro}) : 1408 kg
- Power-to-mass ratio (PMR) : 120,03
- Transmission : 6 speed – automatic transmission (DSG)
- 1.1.1.1. Condition of vehicle : ~~New, used~~, pretested
- Mileage : 8426 km

Vehicle type / Type : **APR 253 609**
Manufacturer : **Stoll GmbH**

1.1.2. Test vehicle (B) : Test series B

Make : Volkswagen AG

Type(s) / variant s) / version (s) : AU
GAC4DNUCX0 /
FD7FD7GC001O7CSMR2ML1CVR2NA

General commercial description : Golf

Identification number : WVVZZZAUZKW123056

Category of vehicle : M1

Vehicle type approval number : e1*2007/46*0623*37

Power plant

Manufacturer of engine : Volkswagen AG

Manufactures engine code : DNUC

Rated maximum net power : 213 kW at 5400 min⁻¹

Mass in running order (m_{ro}) : 1430 kg

Power-to-mass ratio (PMR) : 148,95

Transmission : 7 speed – automatic transmission (DSG)

1.1.2.1. Condition of vehicle : ~~New, used~~, pretested

Mileage : 3907 km

1.1.3. Test vehicle (C) : Test series C

Make : Audi AG

Type(s) / variant s) / version (s) : GB
SDKZCF1 / FD6FD6D9011RTC187CSAEM1

General commercial description : A1 Sportback

Identification number : WAUZZZGB7KR048907

Category of vehicle : M1

Vehicle type approval number : e1*2007/46*1892*04

Power plant

Manufacturer of engine : Audi AG

Manufactures engine code : DKZC

Rated maximum net power : 147 kW at 4400 min⁻¹

Vehicle type / Type : **APR 253 609**
 Manufacturer : **Stoll GmbH**

	Mass in running order (m_{ro})	:	1335 kg
	Power-to-mass ratio (PMR)	:	110,11
	Transmission	:	6 speed – automatic transmission (DSG)
1.1.3.1.	Condition of vehicle	:	New, used , pretested
	Mileage	:	937 km
1.1.4.	Test vehicle (D)	:	Test series D,E
	Make	:	Volkswagen AG
	Type(s) / variant s) / version (s)	:	1K FM6FM62Q011N7MGVI
	General commercial description	:	Golf
	Identification number	:	WVWZZZ1KZAW285904
	Category of vehicle	:	M1
	Vehicle type approval number	:	e1*2001/116*0242*33
	Power plant		
	Manufacturer of engine	:	Volkswagen AG
	Manufactures engine code	:	CCZB
	Rated maximum net power	:	155 kW at 5300 min ⁻¹
	Mass in running order (m_{ro})	:	1393 kg
	Power-to-mass ratio (PMR)	:	111,27
	Transmission	:	6 speed – manual transmission
1.1.4.1.	Condition of vehicle	:	New, used , pretested
	Mileage	:	65549 km

Vehicle type / Type : APR 253 609
 Manufacturer : Stoll GmbH

1.2. Worst case configuration : For each test series, the highest powered vehicle was selected according to the range of application (appendix 2/02) and the relevant revision of UN Regulation No.51.

1.2.1. The test vehicles were equipped with a new replacement silencer

Type : APR 253 609

Assembly silencers according appendix: 1/02

Test-series	Assembling	Tailpipe(s) Variant	Valve control unit equipment
A	01)02)1)2)3)4)	5)	None
B			
C			
D			
E			

2. Test record

2.1. Equipment for measuring and testing : The test facilities / measurement equipment used, were in compliance with the test requirements.

Acoustic measurements : Precision sound level meter meets the requirements described in IEC 61672 – 1:2002 class 1.

Manufacturer : Brüel & Kjaer

Type :
 Test series A : 2240
 Test series B, C-E : 2250L

Speed measurement : GPS/GLONASS Data logger 100 Hz
 Type : Vbox 3i
 Manufacturer : Racelogic

Measurement of the vehicle performances : Each with nominal speed

Test Series A, B : Test bench
 Manufacturer : TAT Dyno Systems
 Test Series C-E : VAM 320
 Manufacturer : Xylem Analytics

2.1.1. Specification for the test site

Test Series A,B : Lamsheim test track, comparison measurement with ISO noise test track
 Test Series C-E : Bastuck test track ISO 10844:2014

2.1.2. Subcontracting : n/a

Vehicle type / Type : APR 253 609
 Manufacturer : Stoll GmbH

2.2. Test results

() numbering according to Annex 1 of the UNECE R59 02 series of amendments
 [] numbering according to Annex 1 – appendix of the UNECE R59 02 series of amendments
 { } numbering according to Annex 6 – Information for users and technical inspection

2.2.1. Test results referring to measurements : See Appendix 3/02

2.2.2. Test results of not measurable attributes

Additional specifications regarding sound absorbing fibrous material, used in exhaust silencing systems.

The design of replacement exhaust system uses fibrous materials. The exhaust gases are not in directly contact with the fibrous material, because the perforated pipes inside, are wrapped by stainless steel wool to prevent washing out the fibrous material.

2.2.3. Alternative test methods : n/a

Remark concerning extension : The vehicle type has been tested according to the modification(s) mentioned in appendix 0.

The new parts meet the requirements of the directive.

~~An actual practical test of the vehicle was not necessary. The results of the previous test(s) are still valid.~~

2.3. Additional information : The results of the test refer exclusively to the object mentioned under section 1.1. of this report.

Test site : Technologiezentrum Typprüfstelle TÜV Pfalz Verkehrswesen GmbH
 Sulzbach, TÜV Saarland automobil GmbH,
 Lebach, Bastuck test track

Test date
 Test series A was conducted : 07.02.2018
 20.08.2018
 Test series B was conducted : 11.09.2019
 08.10.2019
 Test series C was conducted : 20.11.2019
 Test series D,E was conducted : 26.03.2020

Meteorological Conditions	Test series			
	A	B	C	D,E
Test Site (surface characteristics)	Asphalt dry	Asphalt dry	Asphalt dry	Asphalt dry
Temperatures of ambient air [°C]	5	20	5	9
Temperatures of test track surface [°C]	5	25	5	11
Barometric pressure [hPa]	1000	1024	980	988
Humidity [%]	83			
Wind Speed [m/s]	<5	<5	2,5	4,5
Wind direction	-	-	W	W
Background noise [dB(A)]	46	53	45	49

Vehicle type / Type : APR 253 609
Manufacturer : Stoll GmbH

3. Appendices

Appendix 0	: List of modification
Appendix L	: Communication concerning the type approval
Appendix 1/02	: Composition of the separate technical unit
Appendix 2/02	: Range of application
Appendix 3/02	: Test results

Information document

4. Statement of conformity

The in section 0.5. mentioned information document and the type described in that comply with the requirements mentioned on page 1. The mentioned test results refer to the vehicle(s)/object(s) described under point 1.1 of this report. With regard to the required level of performance to be achieved, the tested samples were representative for the type to be approved (see section 1.3).

L-5326 Contern, 27.04.2020



Dipl.-Ing. (FH) M.Schmitt
Expert Technical Service

Vehicle type / Type : APR 253 609
Manufacturer : Stoll GmbH

List of modifications

Appendix 0

- Correction of : -
- Modification of : Editorial changes have been made
Company form and registered office of technical service changed
- Addition of : New tests were conducted
Range of application extended
- Deletion of : -

corresponding Test Report No. : TS-R59-003/18, **Ext.02**
 Type : APR 253 609
 Manufacturer : Stoll GmbH

Attachment L, data referring to UNECE-R 59,
 Series 02, Supplement 01

Communication

of a type of exhaust replacement silencing system or components of the said system pursuant to
 Regulation No- 59

- | | | |
|-----|---|---|
| 1. | Trade name or mark of the exhaust silencing system | : APR
: Stoll GmbH |
| 2. | Type of the exhaust silencing system | : APR 253 609 |
| 3. | Manufacturer's name and address | : Stoll GmbH
Porschestraße 1
79761 Waldshut-Tiengen
Germany |
| 4. | If applicable, name and address of manufacturer's representative | : N/A |
| 5. | Brief description of the silencing system with / without fibrous material | : Centre- and rear-silencer with fibrous material; absorption / reflection principle. |
| 6. | Trade name or mark of the vehicle type for which the exhaust silencing system is intended | : Volkswagen, Seat, Audi and Skoda |
| 7. | Vehicle type, starting from serial number | : PDE, serial number: not applicable |
| 8. | Kind of engine | : Positive-ignition |
| 9. | Cycles | : Four strokes |
| 10. | Cylinder capacity | : See appendix 2/02 |
| 11. | Engine power | : See appendix 2/02 |
| 12. | Number of gears | : See appendix 3/02 |
| 13. | Gears used | : See appendix 3/02 |
| 14. | Final drive ratio | : See appendix 3/02 |
| 15. | Rated maximum net power | : See appendix 2/02 |
| 16. | Load condition of vehicle during test | |
| | Test series A | : 1408 kg |
| | Test series B | : 1430 kg |
| | Test series C | : 1355 kg |
| | Test series D,E | : 1393 kg |

corresponding Test Report No. : TS-R59-003/18, **Ext.02**
Type : **APR 253 609**
Manufacturer : **Stoll GmbH**

- 17. Sound levels : See appendix 3/**02**
- 17.1. Sound level in motion : See appendix 3/**02**
- 17.2. Sound level stationary : See appendix 3/**02**
- 18. Value of the back pressure : See appendix 3/**02**
- 19. Exhaust silencing system submitted for approval on
Test series A : 07.02.2018,
20.08.2018
For extension of approval on
Test series B : 11.09.2019,
08.10.2019
Test series C : **20.11.2019**
Test series D,E : **26.03.2020**
- 20. Technical Service responsible for conducting approval tests : TÜV Rheinland Luxembourg GmbH **s.à.r.l.**
2a, Kalchesbruck
L-1852 Luxembourg
- 21. Date of Test report issued by that service : **27.04.2020**
- 22. Number of report issued by that service : TS-R59-003/18, Ext.**02**
- 24. Position of approval mark on the vehicle : The UNECE approval mark is engraved onto the exhaust silencers outer shell.

Composition of the separate technical unit

No.	Component parts, dimensions in mm	Dimensions of parts in mm or original part / replacement part	Part-no or. / approval no.	See on drawing
01)	Front pipe	Original-part	-	-
02)	Catalyst / particulate trap	Original-part	-	-
1)	Reducer	76,0 to 65,0 opt. 76,0 to 60,0	EXH0025 EXH0015	
2)	Triangle Resonator 1 inlet pipe Ø 76,0 1 outlet pipe Ø 76,0	Triangular 130,62 x 345	MUA0013 opt. MUA0045	MUH0013
3)	Mid muffler 1 inlet pipe Ø 76,0 1 outlet pipe Ø 76,0	Oval 220 x 169 x 286	MUA0014 opt. MUA0028	MUH0014
4)	GTI axleback	Tube Ø 76,0	MUA0015 opt. MUA0028	
5)	Exhaust pipes		TIP00..	TIP0011 TIP0012

Remarks: -

Range of application

Data of the vehicles for which the exhaust replacement silencing system is intend; according UNECE R59, Annex 6, paragraph 1, {g}

No.	Manufacturer	Make	Tradename	Vehicle type and Approval no	Category of vehicle	Motor type/ working principle [PI / CI] ¹⁾	Engine capacity [cm ³]	Rated maximum net power [kW/min ⁻¹]	Kind of transmission	Restriction ²⁾ concerning vehicles where the system can be mounted
() Numbering according to Annex 1, / [] Numbering according to Annex 1 - Appendix / { } Numbering according to Annex 6 of UNECE R59										
	[1.6.1]	[1.1]/{i}	(6)/[1.2]	(7)/[1.2], [1.5]/{ii, iii}	[1.4]	(8)/[1.6.2]/{iv}	(10)	(11)/[1.6.3]/{v}	[1.7.1] (12)/{vi}	[1.11]/{vii}
1.	Volkswagen AG.	VW	Polo	AW	M1	CZPC / PI	1984	147 / 4400	MT / AT	01)02)1)2)3)4)5)
2.				e1*2007/46*1783*..		DKZC / PI		147 / 4400		
3.			T-ROC	A1		CZPB / PI	1984	140 / 4180		
4.				e13*2007/46*1845*..		DKZA / PI		140 / 4200		
5.			Jetta Beetle	16		CCZA / PI	1984	147 / 5100		
6.			Scirocco	13		CCZB / PI		1984		
7.			EOS	1F		CCZA / PI	1984	147 / 5100		
8.				e1*2001/116*0349*..		CCZB / PI		155 / 5300		
9.			Golf VI	1K		CCZB / PI	1984	155 / 5300		
10.				e1*2001/116*0242*..		CULC / PI		162 / 4500		

Range of application

Data of the vehicles for which the exhaust replacement silencing system is intend; according UNECE R59, Annex 6, paragraph 1, {g}

No.	Manufacturer	Make	Tradename	Vehicle type and Approval no	Category of vehicle	Motor type/ working principle [PI / CI] ¹⁾	Engine capacity [cm ³]	Rated maximum net power [kW/min ⁻¹]	Kind of transmission	Restriction ²⁾ concerning vehicles where the system can be mounted
() Numbering according to Annex 1, / [] Numbering according to Annex 1 - Appendix / { } Numbering according to Annex 6 of UNECE R59										
	[1.6.1]	[1.1]/{i}	(6)/[1.2]	(7)/[1.2], [1.5]/{ii, iii}	[1.4]	(8)/[1.6.2]/{iv}	(10)	(11)/[1.6.3]/{v}	[1.7.1] (12)/{vi}	[1.11]/{vii}
11.	Volkswagen AG.	VW	Golf VII	AU e1*2007/46*0623*..	M1	CXDA / PI	1984	162 / 4500	MT / AT	01)02)1)2)3)4)5)
12.						CHHB / PI		162 / 4500		
13.						CHHA / PI		169 / 4700		
14.						DLBA / PI		180 / 5000		
15.						DKTB / PI		180 / 5000		
16.						CJXE / PI		195 / 5350		
17.						DNUC / PI		213 / 5400		

Range of application

Data of the vehicles for which the exhaust replacement silencing system is intend; according UNECE R59, Annex 6, paragraph 1, {g}

No.	Manufacturer	Make	Tradename	Vehicle type and Approval no	Category of vehicle	Motor type/ working principle [PI / CI] ¹⁾	Engine capacity [cm ³]	Rated maximum net power [kW/min ⁻¹]	Kind of transmission	Restriction ²⁾ concerning vehicles where the system can be mounted
() Numbering according to Annex 1, / [] Numbering according to Annex 1 - Appendix / { } Numbering according to Annex 6 of UNECE R59										
	[1.6.1]	[1.1]/{i}	(6)/[1.2]	(7)/[1.2], [1.5]/{ii, iii}	[1.4]	(8)/[1.6.2]/{iv}	(10)	(11)/[1.6.3]/{v}	[1.7.1] (12)/{vi}	[1.11]/{vii}
18.	Seat S.A.	SEAT	Leon	1P e9*2001/116*0052*..	M1	CCZB / PI	1984	155 / 5300	MT / AT	01)02)1)2)3)4)5)
19.				5F e9*2007/46*0094*..		DKZA / PI	1984	140 / 4200		
20.						CJXE / PI		195 / 5350		
21.						CJXA / PI		206 / 5600		
22.						CJXH / PI		213 / 5900		
23.						DNUC / PI		213 / 5400		
24.						CJXC / PI		221 / 5500		

Range of application

Data of the vehicles for which the exhaust replacement silencing system is intend; according UNECE R59, Annex 6, paragraph 1, {g}

No.	Manufacturer	Make	Tradename	Vehicle type and Approval no	Category of vehicle	Motor type/ working principle [PI / CI] ¹⁾	Engine capacity [cm ³]	Rated maximum net power [kW/min ⁻¹]	Kind of transmission	Restriction ²⁾ concerning vehicles where the system can be mounted
() Numbering according to Annex 1, / [] Numbering according to Annex 1 - Appendix / { } Numbering according to Annex 6 of UNECE R59										
	[1.6.1]	[1.1]/{i}	(6)/[1.2]	(7)/[1.2], [1.5]/{ii, iii}	[1.4]	(8)/[1.6.2]/{iv}	(10)	(11)/[1.6.3]/{v}	[1.7.1] (12)/{vi}	[1.11]/{vii}
25.	Audi Hungaria Zrt.	AUDI	TT, TTS	8J e1*2001/116*0369*..	M1	DKZB / PI	1984	145 / 4350	MT / AT	01)02)1)2)3)4)5)
26.			Coupe			CCZA / PI		147 / 5100		
27.			Roaster			CHHC / PI		169 / 4500		
28.						DKTB / PI		180 / 5000		
29.			A3 Cabriolet	8P e1*2001/116*0456*..		CCZA / PI		147 / 5100		
30.	Audi AG	AUDI	A1 Sportback	GB e1*2007/46*1892*..	M1	CZPC / PI	1984	147 / 4400	MT / AT	01)02)1)2)3)4)5)
31.						DKZC / PI		147 / 4400		
32.			A3, S3 Sportback	8P e1*2001/116*0217*..		CCZA / PI		147 / 5100		
33.			A3, S3 Cabrio	8V e1*2007/46*0607*..		CZPZ / PI		140 / 4180		
34.			Limousine Sportback			DKZA / PI		140 / 4200		

Range of application

Data of the vehicles for which the exhaust replacement silencing system is intend; according UNECE R59, Annex 6, paragraph 1, {g}

No.	Manufacturer	Make	Tradename	Vehicle type and Approval no	Category of vehicle	Motor type/ working principle [PI / CI] ¹⁾	Engine capacity [cm ³]	Rated maximum net power [kW/min ⁻¹]	Kind of transmission	Restriction ²⁾ concerning vehicles where the system can be mounted
() Numbering according to Annex 1, / [] Numbering according to Annex 1 - Appendix / { } Numbering according to Annex 6 of UNECE R59										
	[1.6.1]	[1.1]/{i}	(6)/[1.2]	(7)/[1.2], [1.5]/{ii, iii}	[1.4]	(8)/[1.6.2]/{iv}	(10)	(11)/[1.6.3]/{v}	[1.7.1] (12)/{vi}	[1.11]/{vii}
35.	Škoda Auto a.s.	SKODA	Octavia	1Z e11*2001/116*0230*..	M1	CCZA / PI	1984	147 / 5100	MT / AT	01)02)1)2)3)4)5)
36.				5E		DKZA / PI		140 / 4200		
37.				e8*2007/46*0318*..		CZPC / PI		147 / 4400		
38.						CHHB / PI		162 / 4500		
39.						CHHA / PI		169 / 4700		
40.						DKTB / PI		180 / 5000		
41.						DLBA / PI		180 / 5000		

Remarks:

- 1) PI = Positive Ignition (Petrol Car) / CI = Compression Ignition (Diesel Car)
- 2) Composition of the separate technical unit. See Appendix: 1/02 of test report.
- 3) For vehicles with the motor type: **CCZA** and **CCZB** the replacement silencing system was also tested in connection with the engine performance improvement kit APR-2.0 TSI-CCZ, Manufacturer: Stoll Böttner GmbH, D-79761 Waldshut-Tiegen. The increase of engine performance was carried out according to technical report no.: 16-TAAS-0549/MOE of TÜV Austria Automotive GmbH, 1015 Wien / Austria.

There are no technical considerations against this use of the replacement silencer system APR253 609 in connection with the performance improvement kit.

Test results, corresponding paragraph 8.1. of UNECE Regulation No. 51

No. vehicle/ test series	Trans- mission	Gears used	Final drive ratio	EC-approval no. concerning the sound level	Sound level values in dB(A) measured										Back pressure	
					moving vehicle					stationary vehicle					Orig. Repl. in hPa measured	
					Replacement	Original	Vehicle type approval	Speed in km/h	Limit value	Replacement	Original	Vehicle type approval	min ⁻¹			
					() Numbering according to Annex 1, / [] Numbering according to Annex 1 - Appendix of UNECE R59											
[1.7]/(12)	(13)	(14)	[1.9]/(17)							[1.10]/(18)						
13 / A	6 / AT	3	4,77	E1 51R-0211921*02	74	74	74	50	75	77	76	78	3750	22	15	
17 / B	7 / AT	4	4,47	E1*51R03/02*13215*01	71	73	72	50	73	87	89	96	3750	22	21	
31 / C	6 / AT	4	4,77	E1*51R03/02*13101*00	70	70	69	50	72	89	90	95	3750	40	10	
9 / D	6 / MT	3	3,94	E1 R51-0210559*01	76	76	75	50	75	83	83	81	3750	50	16	
9 / E 4)	6 / MT	3	3,94	16-TAAS-0549/MOE	76	76	75	50	75	83	83	81	3750	52	18	

Remarks:

- 4) Test series E was performed in connection with the engine performance improvement kit APR-2.0 TSI-CCZ, Manufacturer: Stoll Böttner GmbH, D-79761 Waldshut-Tiegen. The increase of engine performance was carried out according to technical report no.: 16-TAAS-0549/MOE of TÜV Austria Automotive GmbH, 1015 Wien / Austria.

The series of tests was carried out to prove that the replacement silencer system complies with the national approved performance improvement kit. The test provisions of the UNECE Regulation No. 59R02-01 are fulfilled.