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THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE GRANTING OF A COMPONENT TYPE-APPROVAL CERTIFICATE IN RESPECT OF A NON-ORIGINAL EXHAUST SYSTEM FOR A TYPE OF MOTORCYCLE PURSUANT TO DIRECTIVE 97/24/EC CHAPTER 9 OF 17 JUNE 1997

Report No: 374-0019-09-ITA by technical service TÜV Italia Srl, TÜV Süd Group dated 8 Jun 2009

Component type-approval No: e11*97/24*97/24/9/III*0658*00

1. Make of exhaust: Termignoni

2. Type of exhaust: HC1

3. Name and address of manufacturer:

   Termignoni S.p.A.
   Via della Rampina, 16
   15077 Predosa (AL)
   Italy

4. If applicable, name and address of the manufacturer's authorized representative: Not applicable

5. Make(s) and type(s) and any variant(s) or version(s) of the vehicle(s) for which the exhaust system is designed: See list enclosed

6. Date system submitted for testing: See enclosure

7. Component type-approval has been GRANTED

8. Place: BRISTOL

9. Date: 25 JUNE 2009

10. Signature:

A. W. STENNING
Head of Technical and Quality Group

25-Jun-09
UK Approval Authority

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APPROVAL NUMBER: e11*97/24*97/24/9/III*0658*00

INFORMATION PACKAGE CONTENTS

INDEX

REVISION NUMBER: Not applicable

Total number of sheets:	9 (Nine)
Number of separate drawings:	0 (Nil)
Number of separate photographs:	0 (Nil)

Reasons for Revision: Not applicable

Revision date
&
Office stamp

25-Jun-09
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Automotive

TECHNICAL REPORT

No. 374 - 0019 - 09 - ITA

about a test of a non-original exhaust system or a component

as a separate technical unit for motorcycles according to the directive of the Council

of the European Community for adaptation to the laws of the Member States

relating to

the permissible sound level and exhaust systems for two or three-wheel motor vehicles

No. ***97/24/EC*** *including the last amendment* ***2006/120/EC dated 27-Nov.-2006***
concerning ***Chapter 9, annex III***
Approval mark according to annex VI point 6.1.1

25-Jun-09
374001909ITA base
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Automotive

0. Technical description

0.1.	Make:	Termignoni
0.2.	Type:	**HC1**
0.2.1.	Variants:	Not applicable
0.3.	Name and address of the manufacturer:	Termignoni S.p.A. Via della Rampina, 16 I-15077 Predosa (AL)
0.4.	Name and address of manufacturer's authorized representative:	Not applicable
0.5.	Class of the vehicles the unit is used for:	Motorcycle - L3e

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Automotive

I. Test object(s)

1.1.	Description of the vehicles the unit is used for:	Notice enclosure b
1.2.	Identification number: silencer:	TERMIGNONI HC1 e11 0658 9
	final body:	TERMIGNONI HC1 e11 0658 5
1.2.1.	Structure of the non-original exhaust system:	Non-original exhaust system, consisting out of one silencer right, elliptic, main axle 133 mm, secondary axle 104 mm, length 335 mm (without endcaps), absorption- reflection- principle with an outlet pipe ∅ 36 mm with covering pipe ∅ 48 mm according to drawing no. HC1: SILENCER in combination with non-original inlet section (according to drawing HC1: FINAL BODY) and with original header system. Carbon fiber- alternatively aluminium- alternatively titanium- alternatively stainless steel-cover.
1.2.2.	List of parts:	See Test Report
1.2.3.	Position of the marking:	On the silencer and on the final body, see enclosures c1. and c5.
1.2.4.	Make vehicles tested:	HONDA
1.2.5.	Material of the non-original exhaust system:	See Test Report
1.3.	Remarks:	---

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Automotive

II. Test Report

2.1.	Test equipment:	The tests were effected with an equipment that corresponds to the test requirements
2.2.	Condition under which the above mentioned test Records have been achieved:	See Test Report enclosure
2.2.1	Summary of the Test Records:	See Test Report enclosure
2.3.	General information about the Tests:	
2.3.1.	Weather condition:	See Test Report enclosure
2.3.2.	Place of the test:	See Test Report enclosure
2.3.3.	Date of the test:	See Test Report enclosure

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Automotive

III. Enclosures

a. Test Report
Composition of the non original exhaust system;
Field of application;
Test Records.

	Number	Pages	Date
1	374-0020-09-ITA	6	08/06/2009

b.	Information Document n° HC1/97/24 rev. 00	07/05/2009
c1.	Drawing HC1: SILENCER	16/04/2009
c2.	Drawing HC1: ASSEMBLY	16/04/2009
c3.	Drawing HC1: TAPPO	16/04/2009
c4.	Drawing HC1: CATALYTIC CONVERTER	16/04/2009
c5.	Drawing HC1: FINAL BODY	16/04/2009

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Automotive

IV. Final confirmation

The named information document and the described type correspond to the Directive 97/24/EC chapter 9, annex III including the last amendment 2006/120/EC.
There are no technical objections against granting an EC Type-approval.

This technical report consists of sheet 1 to 6.

Sachverständiger Prüflabor DIN EN ISO/IEC 17025 TÜV SÜD Automotive GmbH

Recognised Expert
Pietro Vergani

pv Sesto San Giovanni (MI),
the 08.06.2009

194200

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Automotive

TEST REPORT

No. 374 - 0020 - 09 - ITA

about a test of a non-original exhaust system or a component as a separate technical unit for motorcycles according to the directive of the Council of the European Community for adaptation to the laws of the Member States relating to the permissible sound level and exhaust systems for two or three-wheel motor vehicles

No. 97/24/EC including the last amendment 2006/120/EC dated 27-Nov.-2008 concerning chapter 9, annex III
Approval mark according to annex VI point 6.1.1

0. General information

0.1.	Make:	Termignoni
0.2.	Type:	**HC1**
0.2.1.	Variants:	Not applicable
0.3.	Name and address of manufacturer:	Termignoni S.p.A. Via della Rampina, 16 I-15077 Predosa (AL)
0.4.	Name and address of manufacturer's authorized representative:	Not applicable

25-Jun-09
374002009ITA - CBR1000RR
EC Approval Authority

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Automotive

0.5.	No. of information document: Date:	HC1/97/24 rev. 00 07/05/2009
1.0.	Class of the vehicles the unit is used for:	Motorcycle - L3e (according to 2002/24/EC amended 2006/120/EC)
1.1.	Description of the vehicles the unit is used for:	Notice enclosure 2

2. Composition of the separate technical unit

2.1. Kind of technical unit:

Technical unit, consisting out of one silencer right, elliptic, main axle 133 mm, secondary axle 104 mm, length 335 mm (without endcaps), absorption- reflection-principle with an outlet pipe ∅ 36 mm with covering pipe ∅ 48 mm according to drawing no. HC1: SILENCER in combination with non-original inlet section (according to drawing HC1: FINAL BODY) and with original header system.

2.2.	Place of marking:	On the silencer, see drawing HC1: SILENCER and on the final boby, see drawing HC1: FINAL BODY
2.3.	Assembly of the exhaust system for testing (no. of parts, enclosure 1):	Notice 3.4
2.4.	Position and direction of the tail pipe:	On the rear side of the vehicle, above the right footrest

3. Test report

The tests were carried out in 1 series A at 07/05/2009 and 04/06/2009.

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Automotive

3. **Test report** (continuation)

Series A: (no. 1)

3.1. Vehicle

	(0.1)	Make:	HONDA
3.1.1.	(0.2.)	Type / variant / version:	SC59 / 1 / 1
3.1.2.	(0.5.)	Manufacturer	Honda Motor Co. Ltd.
3.1.3.		Homologation no.:	e4*2002/24*1726
3.1.3.1		Extension:	01
3.1.4.		Vehicle identification no.:	*JH2SC59A08M013061*
3.1.5.		Year of manufacture:	2008
3.1.6.	(2.1)	Weight of the vehicle:	199 kg

3.2. (3.) Engine

3.2.1.	(3.0.)	Manufacturer:	Notice 3.1.2
	(3.1.)	Make:	HONDA
3.2.2.	(3.1.1)	Type:	SC59E
3.2.3.		Engine capacity:	999 cm^3
3.2.4.	(3.2.1.7)	Rated maximum engine power:	131 kW at 12000 min^{-1}

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Automotive

3. **Test report** (continuation)

3.3. **(4.)** **Transmission**

	(4.1)	Drawing of transmission:	Notice vehicle homologation no. s. 3.1.3.
3.3.1.	(4.2)	Kind of transmission:	Mechanical
	(4.3)	Clutch (kind):	Wet multi-plate type
	(4.4)	Gearbox	
3.3.2.	(4.4.1)	Kind	Mechanical
	(4.4.2)	Kind of activity:	Foot shifted
3.3.4.		No of gears	6
3.3.5.	(4.5.)	Transmission ratios: primary / final	Notice vehicle homologation no. s. 3.1.3.
	(4.6.)	Top speed:	293 km/h
	(5.2.)	Tires:	
		front	120/70 ZR17
		rear	190/50 ZR17

3.4.	Assembly of the exhaust system (no. of parts, enclosure 1):	1.0., c1., c2., c3., c4., c5.

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3.5. Power measurement

3.5.1. The tested max. power and the engine speed are in the ± 5% tolerance in comparison with the original exhaust system.

3.5.2. Testing of top speed with non-original exhaust system:
Not applicable, because vehicle class : motorcycle

3.6. Conditioning

By pulsation

3.7. Test results

The results of
3.7.1. Sound testing
3.7.2. Power measurement
3.7.3. Top speed
3.7.4. Emission test
are attached in the enclosure 3.
The results of the sound tests with the original and non original exhaust systems fulfil point 3.5.2.1.1 of Directive 97/24/EC chapter 9, including last amendment 2006/120/EC. All motorcycles with the same serial exhaust system and same or fewer performance mentioned in enclosure 2, can be taken into the field of application due to the measurement with the above named motorcycle/s.

3.7.5. The described non-original exhaust system / technical unit is suitable for an application at the vehicles listed in enclosure 2.

3.7.6. The general specifications concerning point 3.5.1 of Directive 97/24/EC Chapter 9 (including last amendment 2006/120/EC) were checked and were fulfilled by the non original exhaust system / technical unit.

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4. Enclosures

Enclosure 1, Composition of the non original exhaust system (Page 1)

Enclosure 2, Field of application (Page 1)

Enclosure 3, Test results (Page 1)

5. Summary

The named information document and the described type correspond to the Directive 97/24/EC including the amendment 2006/120/EC chapter 9, annex III.
There are no technical objections against granting an EC Type-approval.

This test report contains the pages 1 to 6 and enclosures

Sachverständiger Prüflabor DIN EN ISO/IEC 17025 TÜV SÜD Automotive GmbH

Recognised Expert
Pietro Vergani

pv Sesto San Giovanni (MI),
the 08.06.2009

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Automotive

E N C L O S U R E 1 ***to test report no.*** **374-0020-09-ITA**
Type: **HC1**
Manufacturer: **Termignoni S.p.A.**

Composition of the original exhaust system + original parts

No.	Components parts, dimensions in mm	Dimensions of the part in mm or original part / replacement part	Part no. or homologation no.
1.0.	Header pipes	Original parts	-
c1.	Rear silencer	Elliptic, main axle 133 mm, secondary axle 104 mm, length 335 mm (without endcaps), absorption- reflection- principle with an outlet pipe ∅ 36 mm with covering pipe ∅ 48 mm	Drawing HC1: SILENCER
c2.	Drawing of composition	Notice drawing	Drawing HC1: ASSEMBLY
c3.	Reduction	Notice drawing	Drawing HC1: TAPPO
c4.	Catalytic converter	Notice drawing	Drawing HC1: CATALYTIC CONVERTER
c5.	Final body	Notice drawing	Drawing HC1: FINAL BODY

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Automotive

E N C L O S U R E 2 ***to test report no.*** **374-0020-09-ITA**
Type: **HC1**
Manufacturer: **Termignoni S.p.A.**

Field of application

No. of ve-hicle	Manufacturer	Make	Commercial name	Vehicle type (and no. of homologation)	Engine type	Stroke	Engine capacity in cm^3	Rated maximum engine power in kW/min^{-1}	Additional remarks:	Composition as shown in enclosure no. 1
1)	Honda Motor Co.	HONDA	CBR 1000 RR '08	SC59 (e4*2002/24* 1726*)	SC59E	4-stroke	999	131 / 12000	with cat	1.0., c1., c2., c3., c4., c5.

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Automotive

E N C L O S U R E 3 ***to test report no.*** **374-0020-09-ITA**
Type: **HC1**
Manufacturer: **Termignoni S.p.A.**

Test results

- Noise and Power Test

					Sound levels driving vehicle in dB(A)					Sound levels stationary vehicle in dB(A)			
No. of vehicle	Engine power original kW/min^{-1}	Engine power non original kW/min^{-1}	Vmax original km/h	Vmax non original km /h	measured in gear ratio	Limit Value **)	Original mea-sured	Non original measured	at km/h	Vehicle type hom.	Original mea-sured	Non original measured	at min^{-1}
1) A*	131,0/12000	124,8/12000	-	-	2 / 3	80	80,00	80,00	50	99	97	99	6000

*) test series

**) Limit value of directive which was valid by vehicle type homologation

- Emission Test

Test Type I

Emission of gaseous pollutants in an urban cycle.

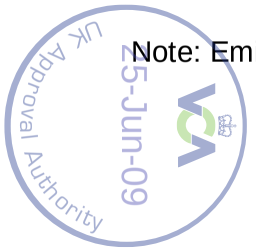
	CO [g/km]	HC [g/km]	NOx [g/km]	equivalent inertia [kg]
Test 1	1,445	0,116	0,018	270
Test 2	0,811	0,087	0,021	270
Test 3	--	--	--	--
Arithmetic mean	1,128	0,102	0,020	270
% of limit	56,4	34,0	13,3	270
limits	2,0	0,3	0,15	

Test Type II

Emission of Carbon monoxide and hydrocarbon at normal idling speed:

Engine revolution [min^{-1}]	CO [%]	HC [ppm]	Oil temperature [K]
1200 ± 100	0,03	113	361
2300 ± 100	0,17	103	361

Note: Emission test has been performed with all the components, as listed in Enclosure 1



TERMIGNONI	**INFORMATION DOCUMENT** **N° HC1/97/24 rev. 00**	**Date: 07/05/2009** **Page 1/2**

Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2006/120/EC)

1.	*Make (trade name of manufacturer)*:	Termignoni
2.	*Type and general commercial description:*	HC1
3.	*Name and address of manufacturer:*	Termignoni S.p.A. via della Rampina, 16 I-15077 Predosa (AL)
4.	*Name and address of manufacturer's authorized representative:*	*Not applicable*
5.	*Parts list:*	*Notice enclosure 1 of the test report*
6.	*Make and motorcycle type of the field of appication:*	*See list enclosed*
7.	*Restriction and instructions for installing:*	*Notice assembly manual and field of application*

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Further details according to directive 97/24/EC, chapter 9, annex III, enclosure 2 A including amendment 2006/120/EC are mentioned in the motorcycle homologation (notice enclosure 2 of the test report).

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Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2006/120/EC)

Enclosures:

		Drawing no.	*Date*
c1.	*Drawing of rear silencer*	HC1: SILENCER	16/04/2009
c2.	*Drawing of composition*	HC1: ASSEMBLY	16/04/2009
c3.	*Drawing of reduction*	HC1: TAPPO	16/04/2009
c4.	*Drawing of catalyst*	HC1: CATALYTIC CONVERTER	16/04/2009
c5.	*Drawing of final body*	HC1: FINAL BODY	16/04/2009
c6.	*List of vehicles*		
c7.	*Fitting instructions*		

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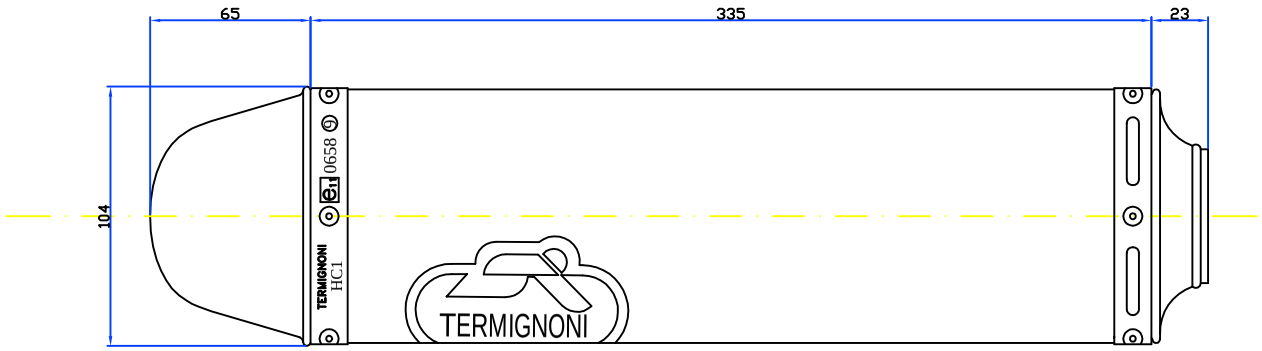
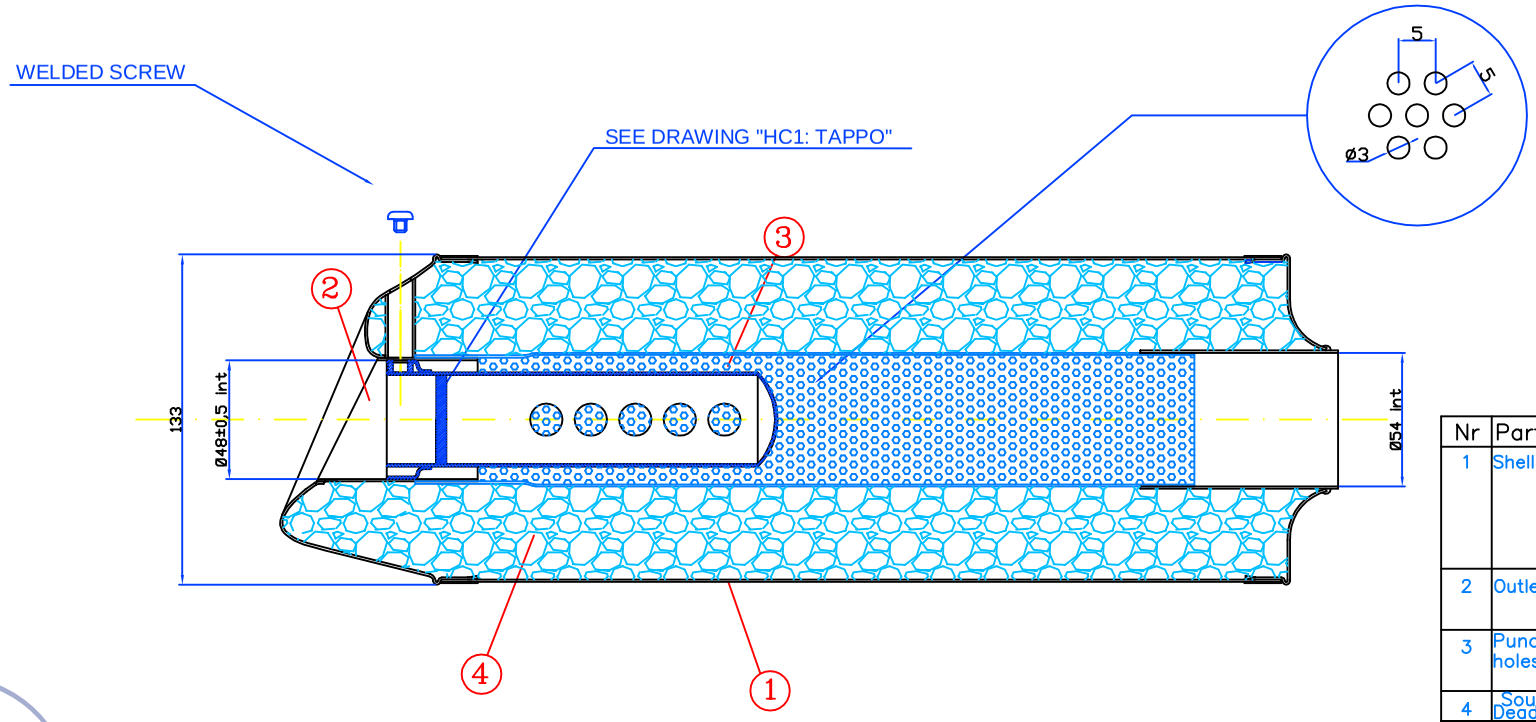
General tolerance: ±1mm





PART LIST

Nr	Part name	Material	Dimensions	Qt.
1	Shell	Alluminium	Sp2mm x See draw	1x
	or	Carbon fiber	Sp1mm x See draw	1x
	or	Titanium	Sp0.6mm x See drawing	1x
	or	Stainless steel	Sp0.6mm x See drawing	1x
2	Outlet pipe	Stainless steel	SEE DRAWING	1x
	or	Titanium	SEE DRAWING	1x
3	Punched-holes pipe	Stainless steel	ø54x0,8	1x
	or	Titanium	ø54x0,8	1x
4	Sound Deadener	Fiberglass	495 g	1x

Scale:
Date: 16.04.2009
Name: D.Zancanaro
Model: HONDA CBR 1000 RR '08 1 sil STR code H081 HC1 e11 0658 5 9
Type: HC1: SILENCER

Termignoni S.p.A.

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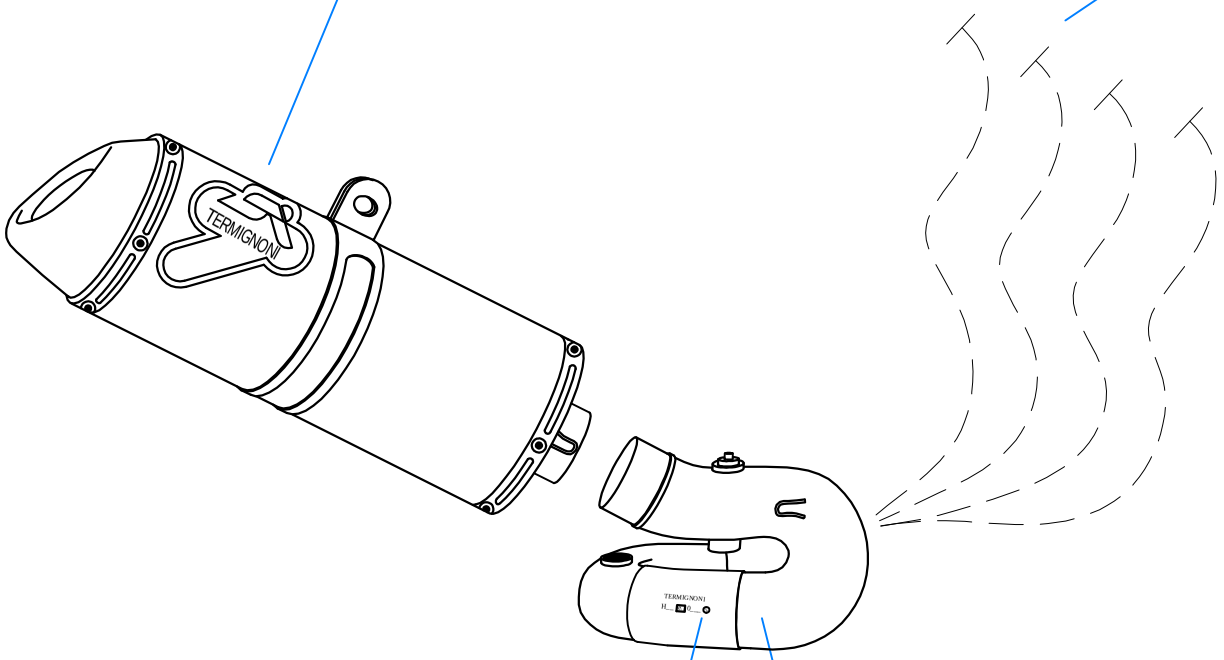
ORIGINAL COLLECTORS

SILENCER
see drawing "HC1: Silencer"



CATALYTIC CONVERTER
see drawing "HC1: Catalytic converter"

FINAL BODY
see drawing "HC1: Final body"

SCALE:	MODEL: HONDA CBR 1000 RR '08 1 sil STR code H081
DATE: 16.04.2009	
DES: D.Zancanaro	HC1 e11 0658 ⑤ ⑨
TYPE: HC1: Assembly	

Termignoni S.p.A.

info@termignoni.it

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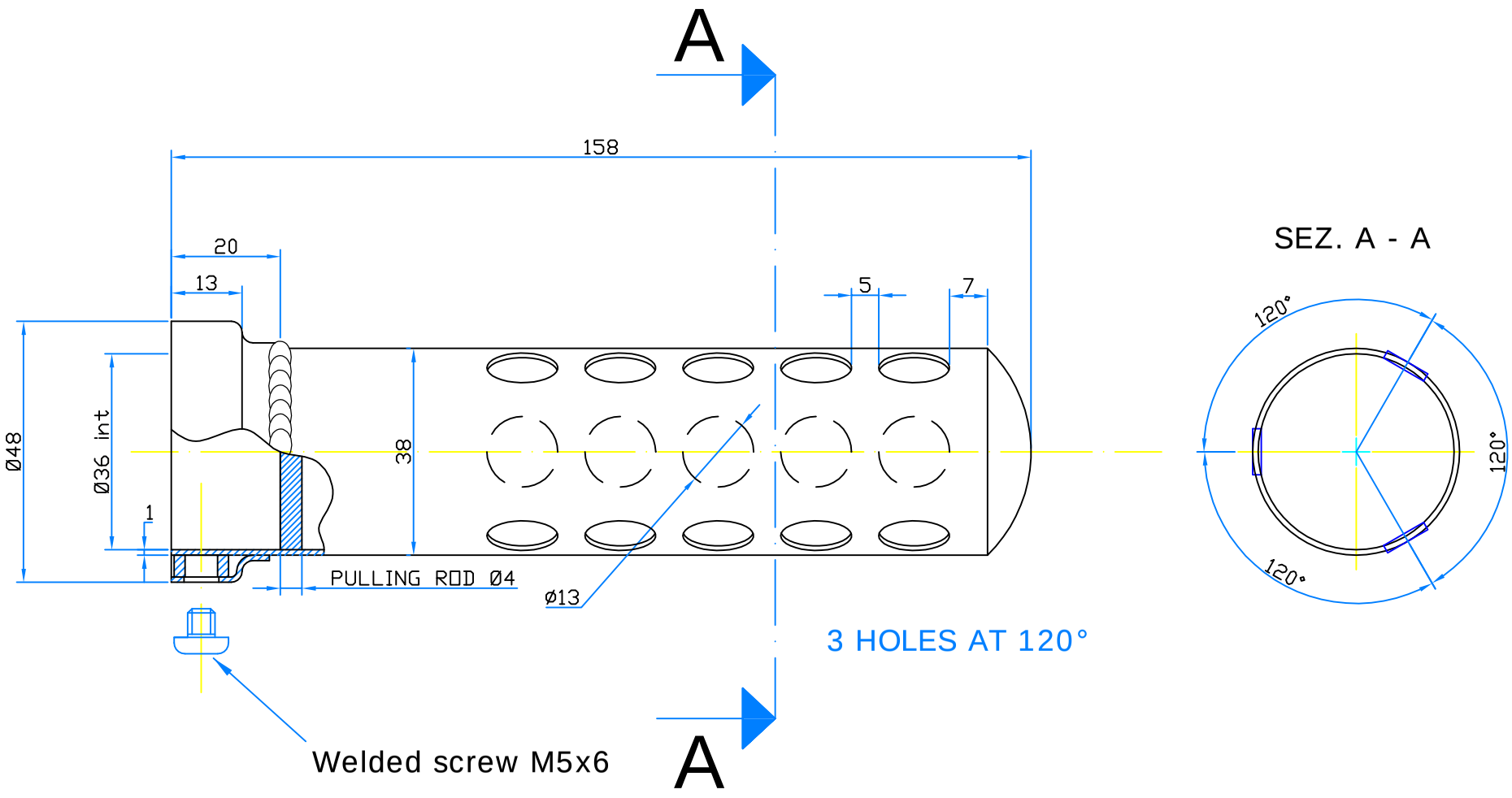
MATERIAL: S.Steel or Titanium



SCALA:	MODEL: HONDA CBR 1000 RR '08 1 sil. code H081
DATUM: 16.04.2009	HC1 e11 0658 ⑤ ⑨
NAME: D.Zancanaro	
TYP: HC1: TAPPO	

Termignoni S.p.A.

info@termignoni.it

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Cod. TERMIGNONI TER262

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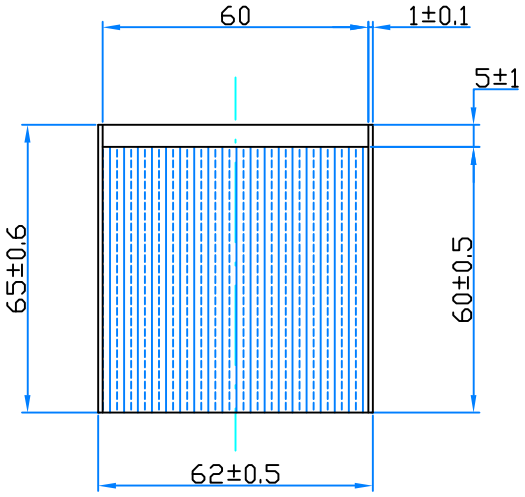

CHARACTERISTICS

DIMENSIONS : Øi 60x60 mm.

CPSI : 400

FORMULATION : Pt/Pd/Rh

RATIO : 1/13/1

LOADING : 140 gr/ft 3

SCALE:	***MODEL:*** HONDA CBR 1000 RR '08 1 sil STR code H081 HC1 e11 0658 ⑤ ⑨
DATE: 16.04.2009	
DES: D.Zancanaro	
TYPE: HC1: Catalytic converter	

Termignoni S.p.A.

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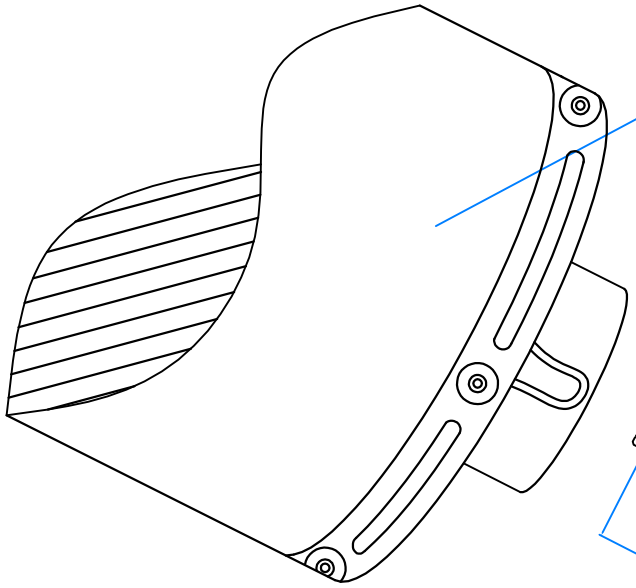
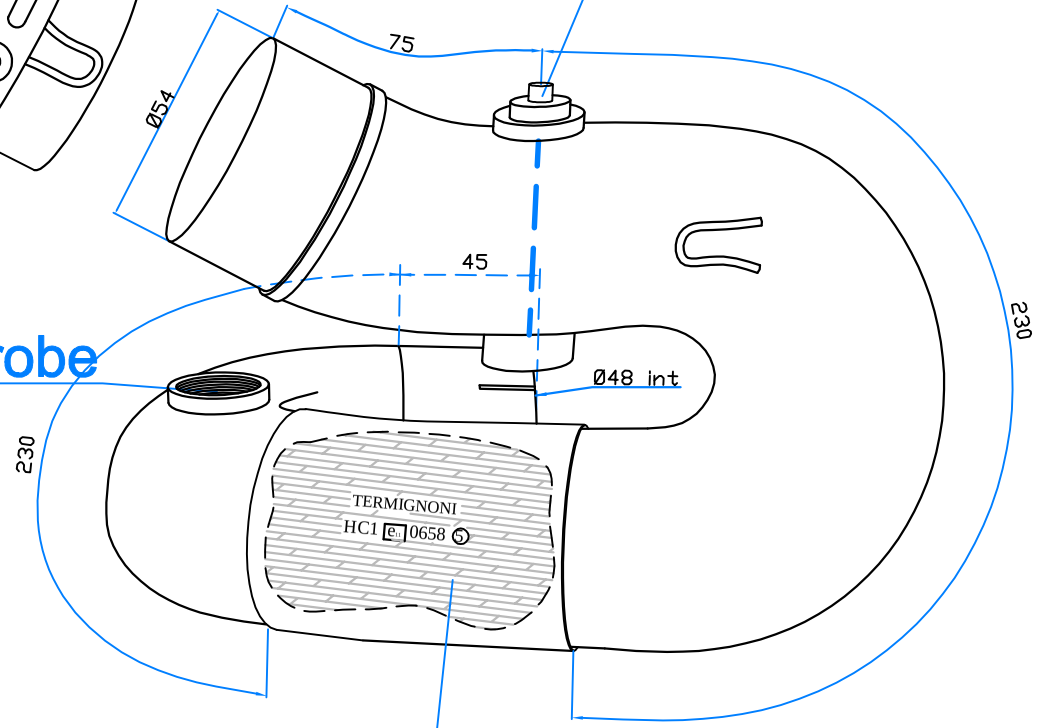
SILENCER

see drawing "HC1: Silencer"



throttle valve



M12x1,25 for lambda probe

CATALYTIC CONVERTER

see drawing "HC1: Catalytic converter"

SCALE:	MODEL: HONDA CBR 1000 RR '08 1 sil STR code H081 HC1 e11 0658 5 9
DATE: 16.04.2009	
DES: D.Zancanaro	
TYPE: HC1: Final body	

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Approval Authority 15-Jun-09

INFORMATION DOCUMENT N° HC1/97/24 rev. 00 - List of the vehicles

No. of vehicle	Manufacturer	Make	Commercial name	Vehicle type (and no. of homologation)	Engine type	Stroke	Engine capacity in cm^3	Rated maximum engine power in kW/min^{-1}	Additional remarks:	Composition as shown in enclosure no. 1
1)	Honda Motor Co.	HONDA	CBR 1000 RR '08	SC59 (e4*2002/24* 1726*)	SC59E	4-stroke	999	131 / 12000	with cat	1.0., c1., c2., c3., c4., c5.

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FITTING INSTRUCTIONS

For Termignoni exhaust systems

A. Dismantling the original exhaust system

1. Remove any casing impeding clear access
2. Detach the silencer support(s) and the original silencer from the branch pipe and/or exhaust manifold

B. Fitting Termignoni silencer(s)

1. Fit the Termignoni silencer(s) to the original branch pipe, or use the Termignoni branch pipe to fit the exhaust manifold
2. Attach the silencer(s) with the mounting(s) supplied with the vehicle, leaving the screws and bolts loose
3. Adjust the exhaust system so that when fully inserted it is at least 5 mm from any other component of the vehicle
4. Tighten all screws and bolts
5. Test the vehicle and check all connections, tightening the screws and bolts if necessary
6. After about 100 km check all the connections again and tighten the screws and bolts if necessary

WARNING:

Take care when working on the exhaust system after testing the vehicle since the surfaces could be very hot

VCA 25-Jun-09 UK Approval Authority