



INFORMATION DOCUMENT
N° H144/134/2014 rev. 00

Date: 29/09/2017
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Termignoni S.p.A.
Via della Rampina, 1
I-15077 Predosa (AL)
Italy

**APPLICATION FOR APPROVAL OF SEPARATE TECHNICAL UNIT OF
EXHAUST SYSTEMS FOR MOTORCYCLE PURSUANT
TO REGULATION (EU) 134/2014**


**UNIFORM PROVISIONS CONCERNING THE APPROVAL OF
TWO- OR THREE-WHEEL VEHICLES AND QUADRICYCLES WITH
REGARD TO NOISE-ABATEMENT DEVICE**

Total number of pages: 11 (Including Annex)

Predosa, IT
28.09.2017


Technical manager



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Confirmation

We declare hereby that the specimen submitted for this approval test have been manufactured and assembled in conditions of ordinary mass production and that they are compatible with the enclosed documentation.

Predosa, IT
28.09.2017


Technical manager




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0. GENERAL INFORMATION

B. General information concerning systems, components or separate technical units


- 0.7. Make (trade name of manufacturer):** Termignoni
- 0.8. Type:** H144
Variants: TSSF, CSSF, SSSF for details see page 6.
- 0.8.1. Commercial name (if available): --
- 0.8.2. Type-approval number (if available): --
- 0.8.3. Type-approval issued on (date, if available): N/A
- 0.9. Company name and address of manufacturer:** Termignoni S.p.A.
Via della Rampina, 1
I-15077 Predosa (AL)
Italy
- 0.9.1. Name and address of assembly plants: Termignoni S.p.A.
Via della Rampina, 1
I-15077 Predosa (AL)
Italy
- 0.9.2. Name and address of manufacturer's authorised representative, if any: N/A
- 0.10. Vehicle for which the system/separate technical unit is intended for**
- 0.10.1. Type: PC58
e13*168/2013*00056*00
- 0.10.2. Variant: 1
- 0.10.3. Version: 1
- 0.10.4. Commercial name: Honda CB500FA
- 0.10.5. Category of vehicle: L3e-A2

C. General information concerning vehicle, systems, components or separate technical units

0.12. Conformity of production

- 0.12.1. Description of overall quality-assurance management systems according to described internal quality management initially assessment has been executed



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1. GENERAL CONSTRUCTION CHARACTERISTICS

1.8. Propulsion unit performance

- | | |
|---|---|
| 1.8.1. Declared maximum vehicle speed: | 175 km/h |
| 1.8.3. Maximum net power combustion engine: | 35kW @ 8500rpm, @ A/F ratio:
12,5:1 |
| 1.8.4. Maximum net torque combustion engine: | 43 Nm @ 7000 rpm @ A/F ratio:
12,5:1 |
| 1.8.5. Maximum continuous-rated power electric motor (15/30 minutes power): | N/A |
| 1.8.6. Maximum continuous-rated torque electric motor: | N/A |
| 1.8.7. Maximum continuous total power for propulsion: | N/A |
| 1.8.8. Maximum continuous total torque for propulsion: | N/A |
| 1.8.9. Maximum peak power for propulsion: | N/A |


4. GENERAL INFORMATION ON ENVIRONMENTAL AND PROPULSION UNIT PERFORMANCE

- | | |
|---|-------------|
| 4.0.1. Environmental step: | 4 |
| 4.0.2. Fuel consumption: | 3,5 l/100km |
| 4.0.3. CO ₂ emissions: | 80 g/km |
| 4.0.4. Energy consumption: | N/A |
| 4.0.5. Electric range: | N/A |
| 4.0.6. Limit value for L _{urban} : | 77 dB(A) |

4.4. Additional information on environmental and propulsion unit performance

- | | |
|---|-----|
| 4.4.4. 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. | N/A |
|---|-----|



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Technical description:

Non-original exhaust system, according to drawings no. H144_Silencer, consists of: single silencer on the right side of the vehicle rear, maximum section 88x127 mm, total length 542,9 mm (with endcap and junction pipe), absorption-reflection principle with single outlet pipe of Ø22 mm (inner section), in combination with original header system. The silencer has been designed in three possible variants: TSSF, CSSF, SSSF.

Repair and maintenance information are in manual and webpage: www.termignoni.it

Position and direction of the tail pipe:

On the right side of the vehicle, in longitudinal direction

Used materials:

- TSSF: Titanium (shell), Stainless Steel (outlet pipe), Stainless Steel (punched-holes Pipe), Fibre Glass (sound deadener).
- CSSF: Carbon Fibre (shell), Stainless Steel (outlet pipe), Stainless Steel (punched-holes Pipe), Fibre Glass (sound deadener).
- SSSF: Stainless Steel (shell), Stainless Steel (outlet pipe), Stainless Steel (punched-holes Pipe), Fibre Glass (sound deadener).

Place of marking:

On the silencers, see enclosed drawings of silencers and composition H144_Silencer





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Appendix 1 - 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)	Collectors and final body	Original part	--
2)	Catalytic converter	Original part	--
3)	Silencers (Single outlet pipe, inner section Ø22 mm)	Single silencer on the right side of the vehicle rear, maximum section 88x127 mm, total length 542,9 mm (with endcap and junction pipe), absorption-reflection principle with single outlet pipe of Ø22 mm (inner section), in combination with original header system.	H144_Silencer
4)	Silencer composition	TSSF, CSSF, SSSF	See drawing no. H144_Silencer

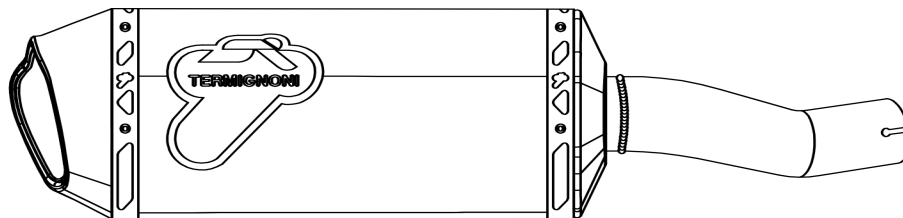


General tolerance: $\pm 1\text{mm}$

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Appendix 2 – Drawing of composition "H144_Assembly"

SILENCER
see drawing "H144_SILENCER"

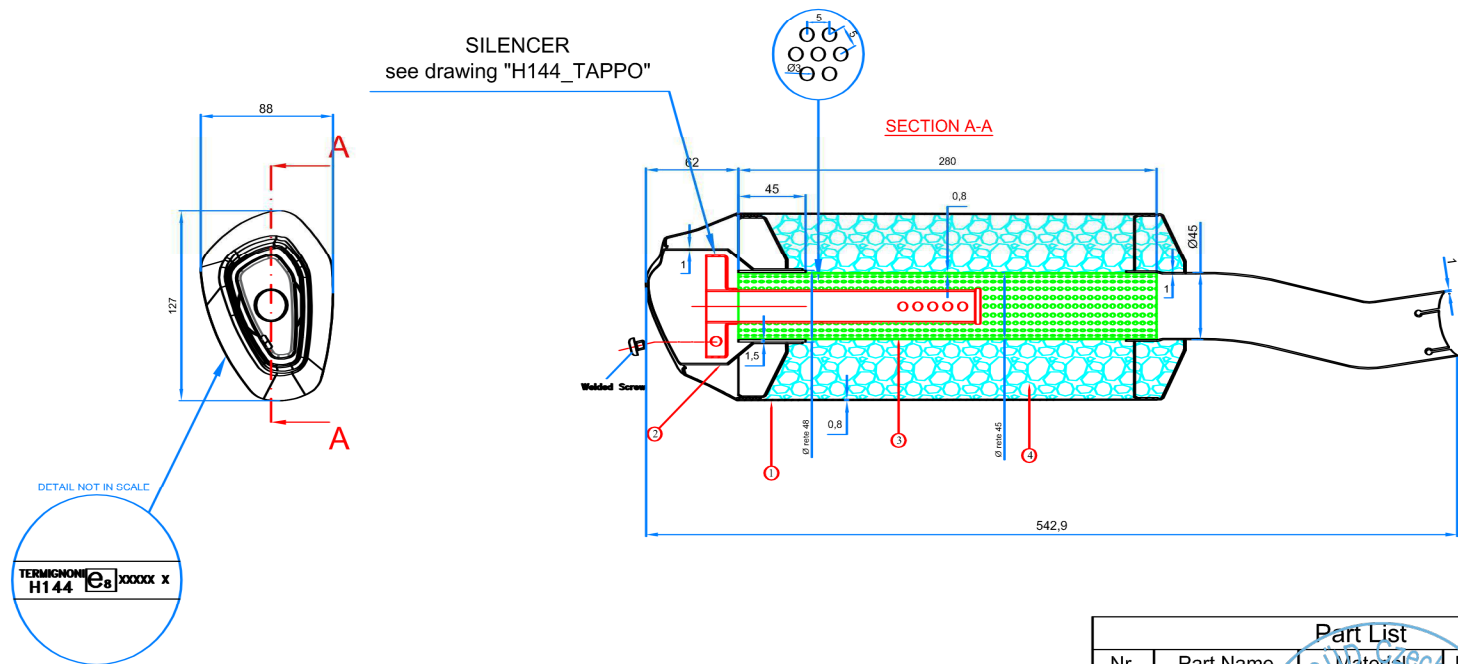


SCALE:	MODEL:
DATE: 04/08/2017	HONDA CBR 500 R
NAME: E. VRAPÍ	1 SIL. Cod. H144
	H144 e8 XXXXX X
TYPE:	H144: SILENCER
Termignoni s.p.a.	



General tolerance: ±1mm

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Appendix 3 – Drawing of silencer “H144_Silencer”



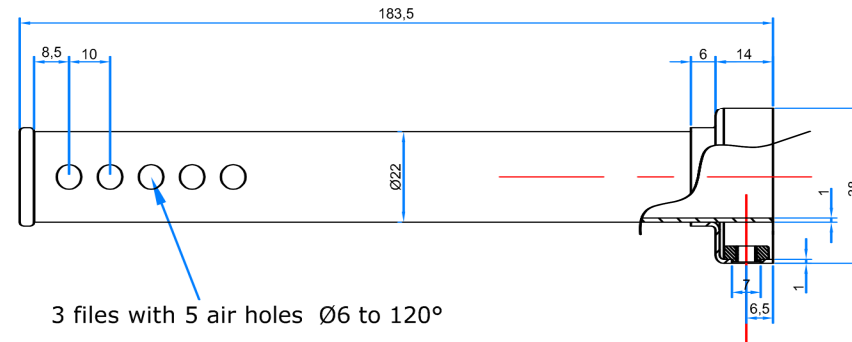
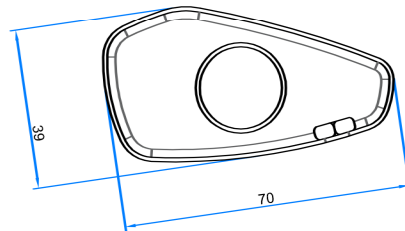
Part List				
Nr.	Part Name	Material	Dimension	QT.
1	Shell / Outlet Cap	Titanium - Carbon fiber Stainless steel	See Drawings	1
2	Outlet Pipe	Stainless steel	See Drawings	1
3	Perforated inner pipe	Stainless steel	Øext. 45x0.8	1
4	Soundproof material	Fiberglass	255 g	1

SCALE: 1:1	MODEL: HONDA CBR 500 R 1 Sil. Cod. H144 H144 e8 XXXXX X
DATE: 04/08/2017	
NAME: S. Emanuelli	
TYPE: H144: SILENCER	
Termignoni s.p.a.	

General tolerance: $\pm 1\text{mm}$

MATERIAL: S.Steel or Titanium

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Appendix 4 – Drawing of outlet pipe "H144_Tappo"



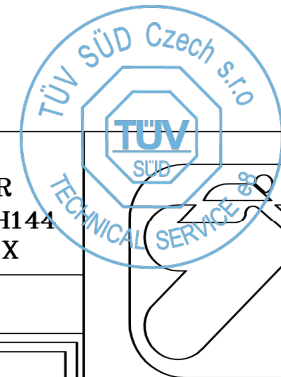
SCALA: 1:1	MODEL: Honda CB 500 R
DATUM: 04/08/2017	1 SIL. OM. Cod. H144
NAME: E. VRAPI	H144 e8 XXXXX X

Tipe: H144: Tappo

Termignoni s.p.a.

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Cod. TERMIGNONI TER657





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Iscriz. C.C.I.A.A. AL 130295
Iscriz. Tribunale Reg. Soc. 7721
N. Export AL 009063
C.C. IT 00862780061
Cap. Soc. € 1.000.000,00 int. vers.

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

