



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL EXTENDED <sup>(1)</sup> TO A COMPONENT TYPE-APPROVAL CERTIFICATE IN RESPECT OF A NON-ORIGINAL EXHAUST SYSTEM FOR A TYPE OF MOTORCYCLE PURSUANT TO COUNCIL DIRECTIVE 97/24/EC – CHAPTER 9 AS LAST AMENDED BY 2009/108/EC.

EC Component type-approval No: e11\*97/24/9/III\*2009/108\*0896\*01

Report No: 14-00006-CM-MIL-01, by technical service: TÜV SÜD Auto Service GmbH, dated 23 January 2015

Reason(s) for extension: To cover

- 1) Updating vehicles list for which the exhaust system is designed
- 2) Document updating

1. Make of exhaust: Termignoni
2. Type of exhaust: Y102
3. Name and address of manufacturer:  
Termignoni S.p.A.  
Via della Rampina, 1  
I-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 manufacturer's documentation
6. Date system submitted for testing: See manufacturer's documentation
7. Component type-approval GRANTED <sup>(1)</sup>

8. Place: BRISTOL

9. Date: 13 FEBRUARY 2015

10. Signature:  A.W.STENNING  
Head of Technical and Quality Support Group

(1) Delete as appropriate





THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

APPROVAL NUMBER: e11\*97/24/9/III\*2009/108\*0896\*01

**INFORMATION PACKAGE CONTENTS**

**INDEX REVISION NUMBER: 01 (One)**

Total number of sheets: 10 (Ten)

Reasons for Revision: See approval certificate

Revision date  
&  
Office stamp

EAQ319567

An executive agency of the Department for Transport  
April 2013 Revision 3





**Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2013/60/EU)**

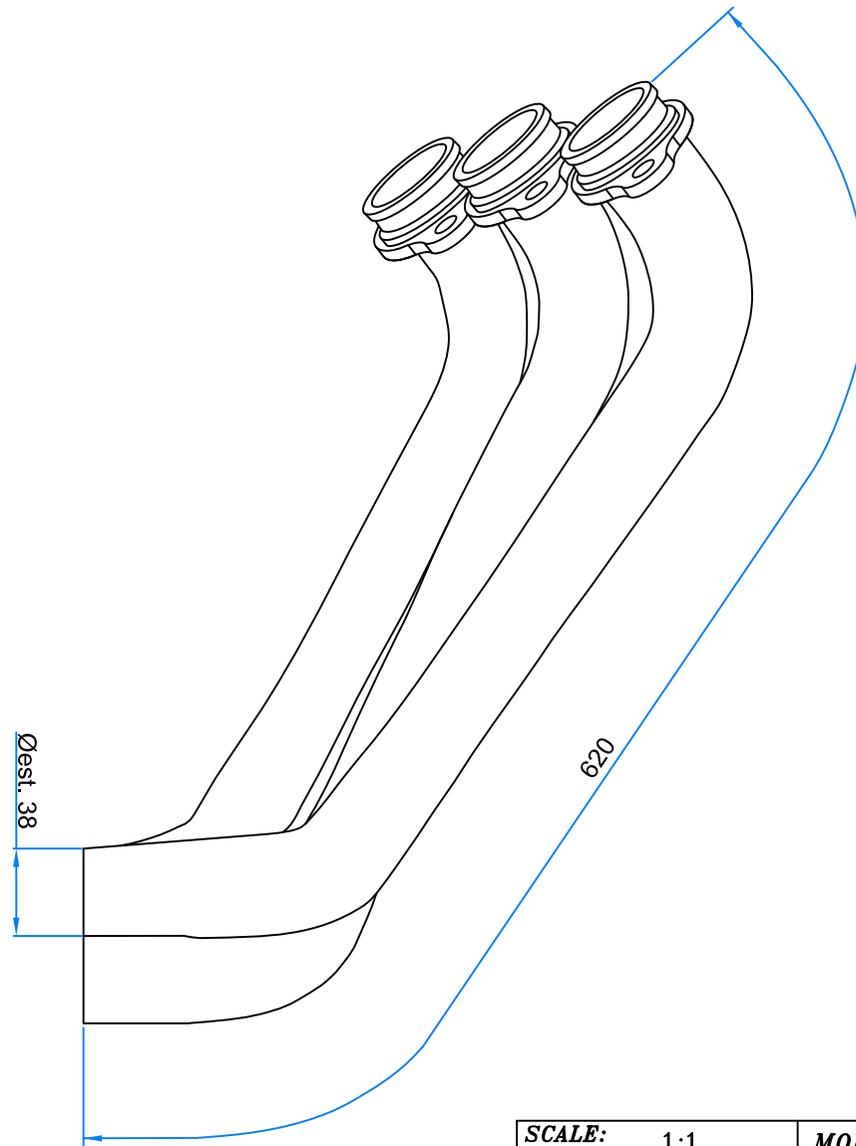
1. *Make (trade name of manufacturer):* Termignoni
2. *Type and general commercial description:* Y102
3. *Name and address of manufacturer:* Termignoni S.p.A.  
via della Rampina, 1  
I-15077 Predosa (AL)
4. *Name and address of manufacturer's authorized representative:* *Not applicable*
5. *Parts list:* *Notice enclosure 1 of the test report*
6. *Make and motorcycle type of the field of application:* *See list enclosed*
7. *Restriction and instructions for installing:* *Notice assembly manual and field of application*

*Further details according to directive 97/24/EC, chapter 9, annex III, enclosure 2 A including amendment 2013/60/EU are mentioned in the motorcycle homologation (notice enclosure 2 of the test report).*



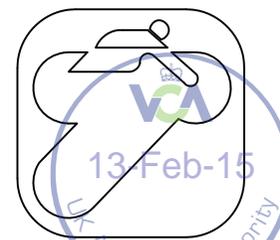
**Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2013/60/EU)**

<i>Enclosures</i>	<i>Drawing no.</i>	<i>Date</i>
<i>Drawing of collectors</i>	Y102: Collectors	12/02/2014
<i>Drawing of final body</i>	Y102: Final body	12/02/2014
<i>Drawing of silencer</i>	Y102: SILENCER	06/02/2014
<i>Drawing of catalytic converter</i>	Y102: CATALYTIC CONVERTER	14/02/2014
<i>Drawing of reduction</i>	Y102: TAPPO	14/02/2014
<i>Drawing of composition</i>	Y102: ASSEMBLY	12/02/2014
<i>List of vehicles</i>		
<i>Fitting instructions</i>		



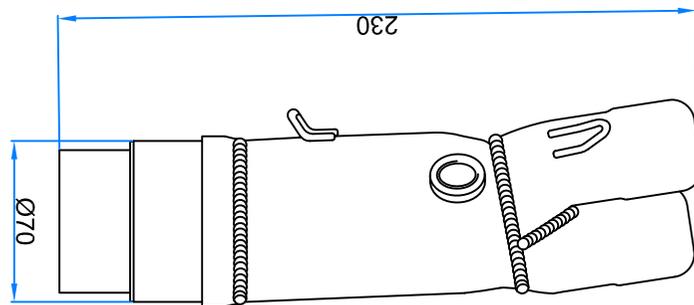
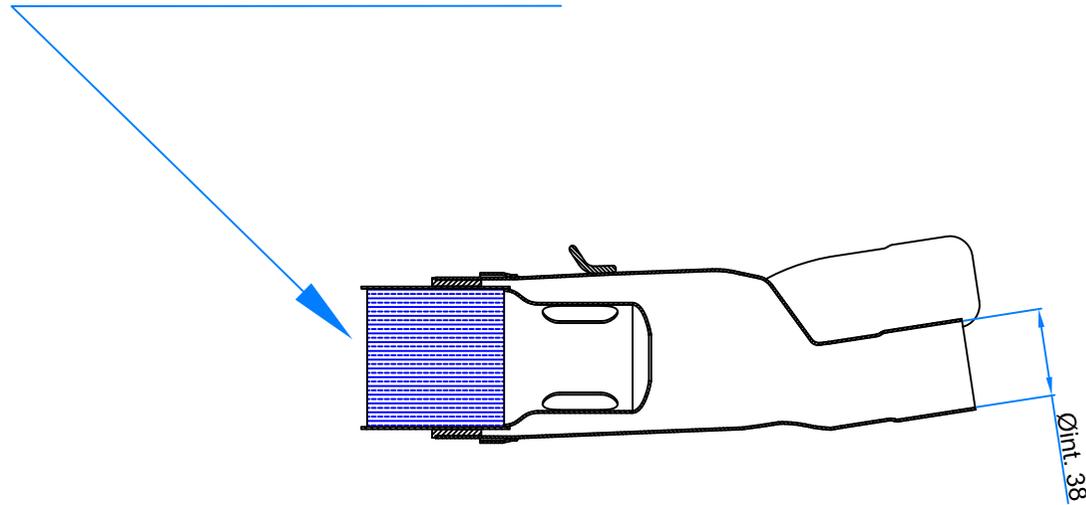
<b>SCALE:</b> 1:1	<b>MODEL:</b>
<b>DATE:</b> 12/02/2014	YAMAHA MT-09 2014
<b>DES:</b> E. Vrapì	Collectors code Y102
	Y102 e11 0896 ⑤⑨
<b>TYPE:</b> Y102: Collectors	

**Termignoni** S.p.A.



info@termignoni.it

see drawing  
"Y102: Catalytic converter"



<b>SCALE:</b> 1:1	<b>MODEL:</b> YAMAHA MT-09 2014
<b>DATE:</b> 12/02/2014	Final body code Y102
<b>DES:</b> E. Vrapì	Y102 e11 0896 ⑤⑨
<b>TYPE:</b> Y102: Final body	

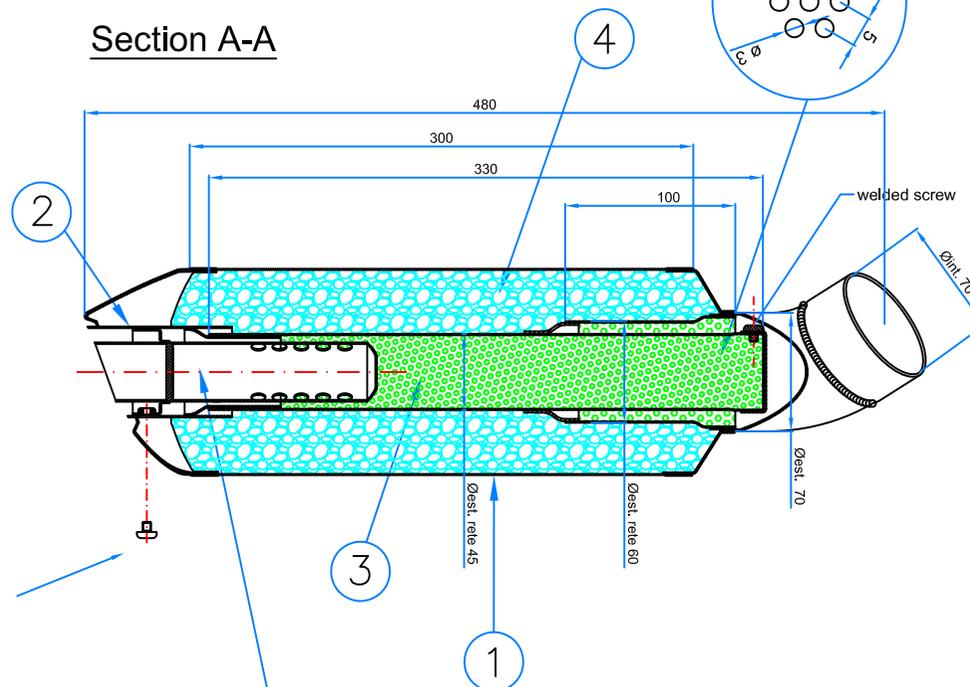
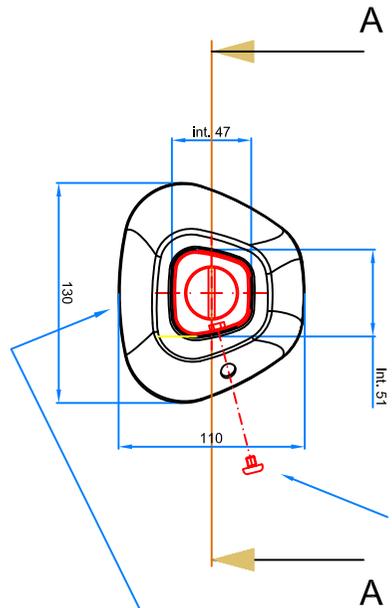
**Termignoni** S.p.A.



info@termignoni.it

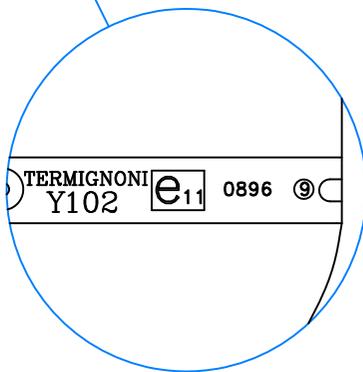
General tolerance: ±1mm

DETAIL (NOT IN SCALE)



Welded screw

see drawing  
"Y102: TAPPO"



DETAIL (NOT IN SCALE)

PART LIST

Nr	Part name	Material	Dimensions	QT
1	Shell	Stainless Steel	See Drawing	1x
	or	Titanium	See Drawing	1x
	or	Carbon fiber	See Drawing	1x
	or	Aluminium	See Drawing	1x
2	Outlet Pipe	Stainless Steel	See Drawing	1x
	or	Titanium	See Drawing	1x
3	Punched-holes pipe	Stainless Steel	Ø 45x0,8	1x
	or	Titanium	Ø 45x0,8	1x
4	Sound deadener	Fiberglass	635 gr.	1x

SCALE:

MODEL:

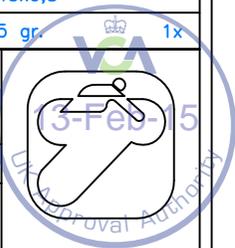
DATE: 06/02/2014

YAMAHA MT 09  
SILENCER code Y102  
Y102 e11 0896

NAME: E. Vrapì

TYPE: Y102: SILENCER

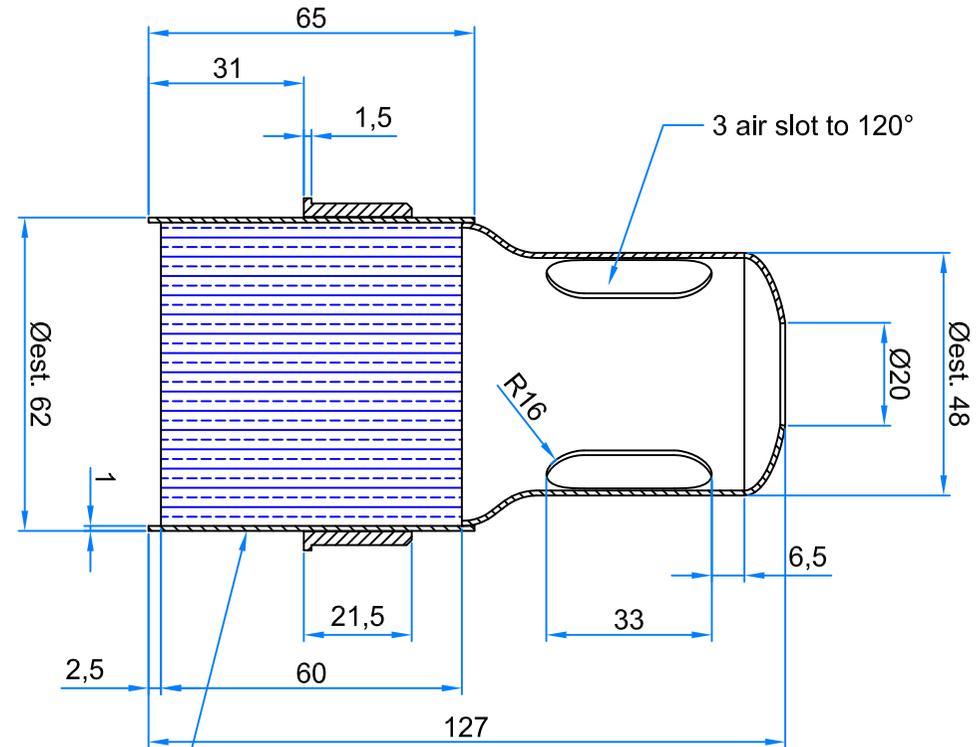
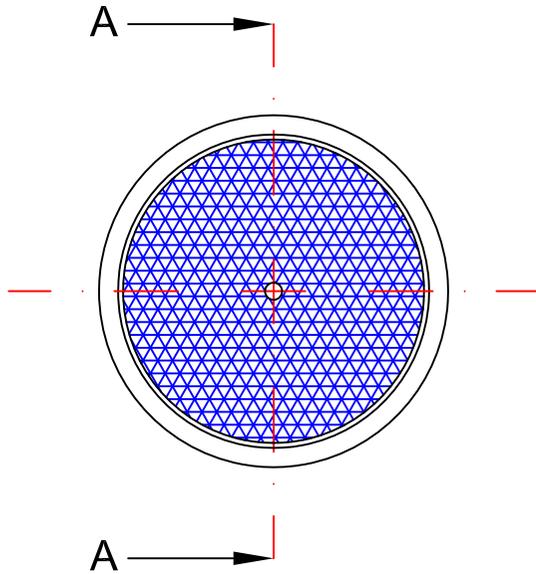
Termignoni s.p.a.



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

MATERIAL: S.Steel or Titanium

### Section A - A



TERMIGNONI  
Y102  0896  

### CHARACTERISTICS

DIMENSIONS :  $\text{\Oest. } 60 \times 60$  mm.

CPSI : 400

FORMULATION : Pt/Pd/Rh

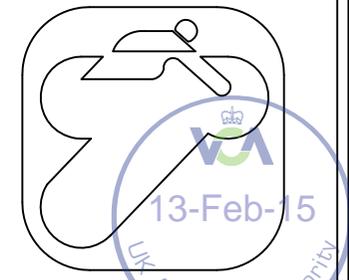
RATIO : 1/13/1

LOADING : 140 gr/ft<sup>3</sup>

<b>SCALA:</b> 1:1	<b>MODEL:</b> YAMAHA MT-09 2014 Catalytic converter Y102 e11 0896  
<b>DATUM:</b> 14/02/2014	
<b>NAME:</b> E. Vrapì	
<b>Tip:</b> Y102: Catalytic converter	

Cod. TERMIGNONI TY170

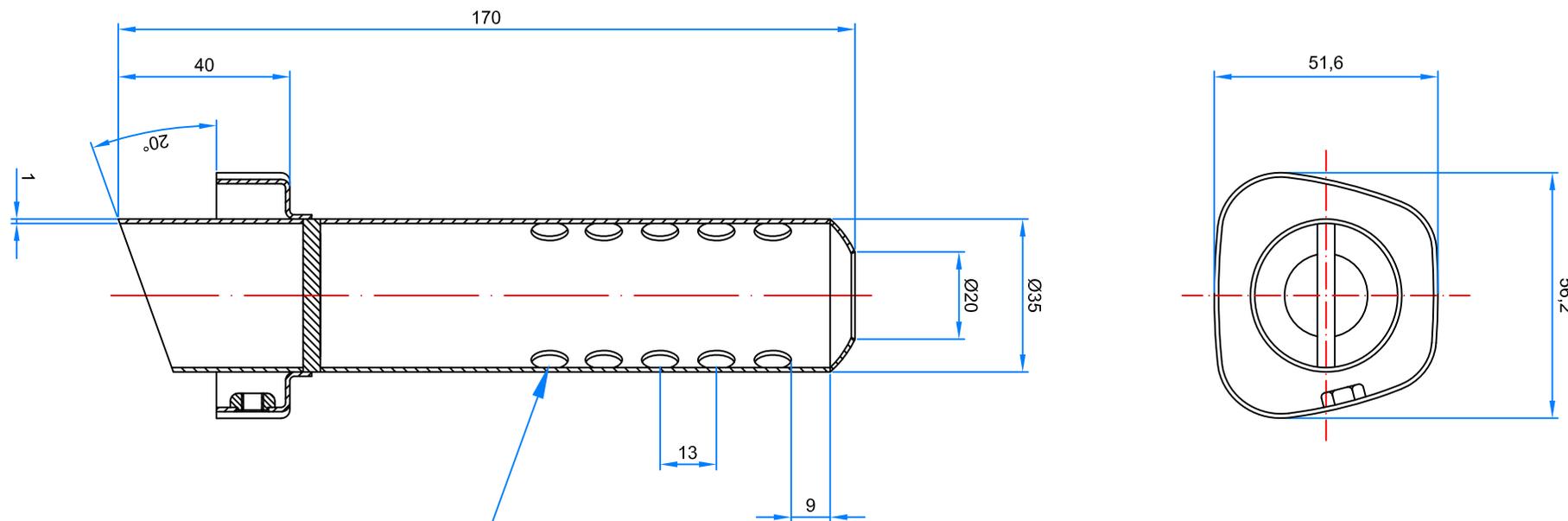
Termignoni s.p.a.



info@termignoni.it

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

MATERIAL: S.Steel or Titanium

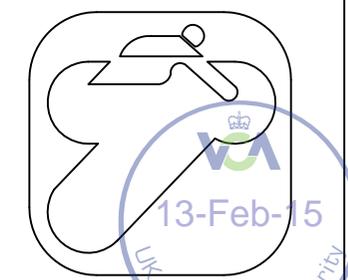


3 rows of  $\text{Ø}9$  holes at  $120^\circ$

<b>SCALA:</b> 1:1	<b>MODEL:</b> YAMAHA MT-09 2014
<b>DATUM:</b> 14/02/2014	Tappo code Y102
<b>NAME:</b> E. Vrapì	Y102 e11 0896 (5) (9)
<b>Tip:</b> Y102: Tappo	

Cod. TERMIGNONI TER506

Termignoni s.p.a.

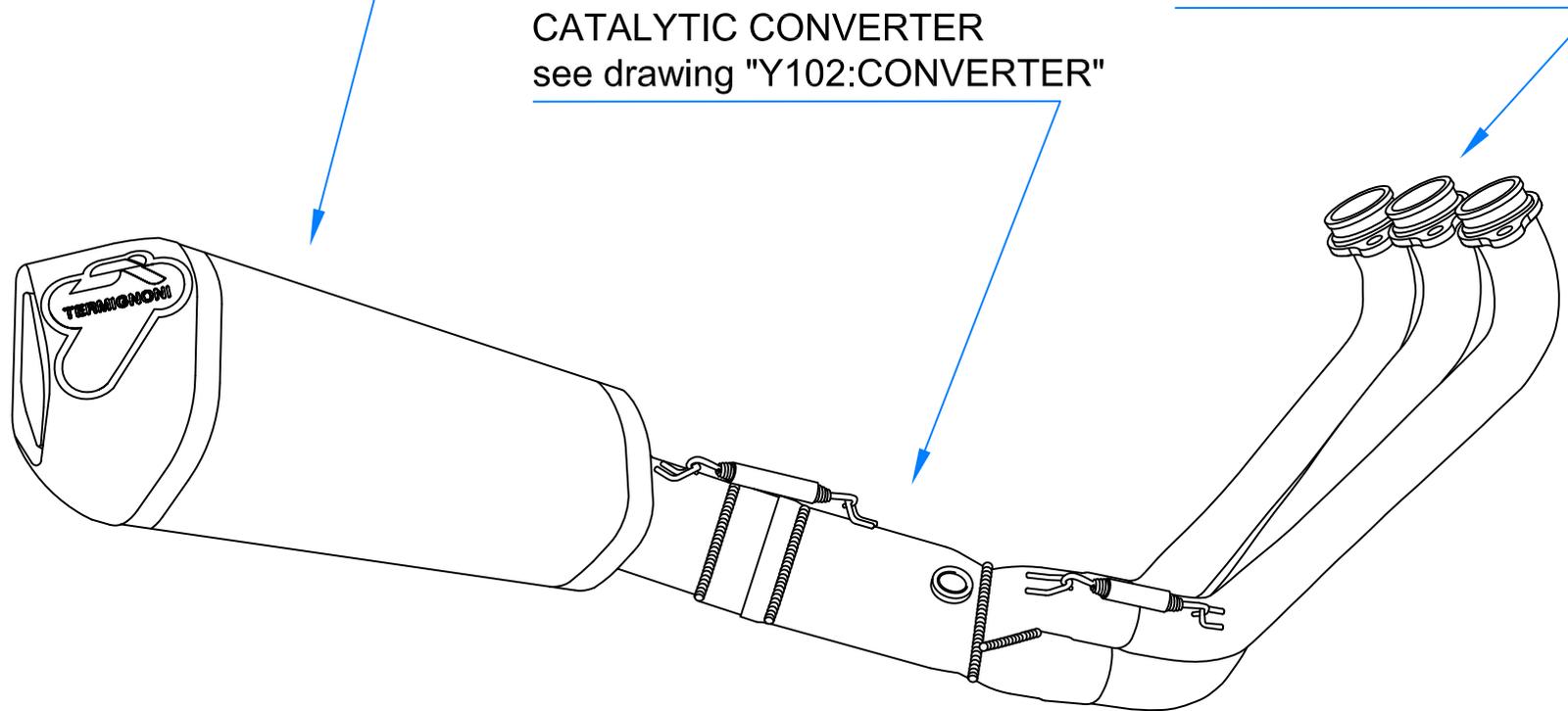


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**SILENCER**  
see drawing "Y102: Silencer"

**CATALYTIC CONVERTER**  
see drawing "Y102:CONVERTER"

**COLLECTORS**  
see drawing "Y102: COLLECTORS"



<b>SCALE:</b>	<b>MODEL:</b>
<b>DATE:</b> 12/02/2014	YAMAHA MT-09 2014
<b>NAME:</b> E. Vrapì	SILENCER code Y102
	Y102 e11 0896 ⑤ ⑨
<b>TYPE:</b>	Y102: ASSEMBLY

Termignoni s.p.a.





Termignoni s.p.a.  
Via della Rampina, 1  
15077 PREDOSA (AL) Italy  
Telef. +39 0131.71666  
Fax +39 0131.71696  
www.termignoni.it  
Part. IVA - C.F. 00862780061  
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



**INFORMATION DOCUMENT N° Y102/97/24 rev. 01 - List of the vehicles**

No. of vehicle	Manufacturer	Make	Commercial name	Vehicle type (and no. of homologation)	Engine type	Stroke	Engine capacity in cm <sup>3</sup>	Rated maximum engine power in kW/min <sup>-1</sup>	Additional remarks:	Composition as shown in enclosure no. 1
1)	YAMAHA MOTOR CO., LTD	YAMAHA	MT-09 / MT-09 ABS	RN29 e13*2002/24*0643*	N701E	4-stroke	847	84,6 / 10000	with cat	1) 2) 3) 4) (*)
2)			MT-09 TRACER					84,6 / 10000		
3)			MT-09 STREET RALLY					84,6 / 10000		
4)			MT-09 SPORT TRACKER / MT-09 SPORT TRACKER ABS					84,6 / 10000		

(\*) The Catalytic converter with separate marking TERMIGNONI Y102 e110896 5 9 must be correctly placed in the assembly, in order to fulfil the requirements of the complete exhaust system. The installation of the muffler, separated by the catalytic converter, is not allowed and doesn't fulfil the directive requirements



Techn. Report No.: 14-00006-CM-MIL-01  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: Y102

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## TEST REPORT

### No. 14-00006-CM-MIL-01

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, pollution and exhaust systems for two or three-wheel motor vehicles

No. 97/24/EC including the amendment 2013/60/EU  
Concerning chapter 9, annex III

Approval status		
<input type="checkbox"/>	Granting of a type approval	
<input checked="" type="checkbox"/>	Extension/correction to type approval no.	e11*97/24/9/III*2009/108*0896* 00

Techn. Report No.: 14-00006-CM-MIL-01  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: Y102

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**Reason for extension:**

It will be changed: Not applicable

It will be updated: The application list will be extended;  
Document updating.

**0. General information**

- 0.1. Make: TERMIGNONI
- 0.2. Type: Y102
- 0.2.1. Variants n.a.
- 0.3. Name and address of manufacturer: Termignoni S.p.A.  
Via della Rampina, 1  
I-15077 Predosa (AL)  
Italy
- 0.4. Name and address of authorized agent: n.a.
- 0.5. No. of information document: Y102/97/24 rev. 01  
Date: 23.01.2015
- 1.0. Class of the vehicles the unit is used for: L3e
- 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: Non-original exhaust system, consisting out of one silencer on the right,  $\varnothing$  130x110 mm and, total length 480 mm, absorption-reflection principle with outlet pipe  $\varnothing$  35 mm with covering pipe 51x47 mm according to drawing no. Y102: Silencer, Y102: Tappo. Equipped with catalytic converter inside of the inlet section of system according to drawings no. Y102:Final body and Y102: Catalytic converter.



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Techn. Report No.: 14-00006-CM-MIL-01  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: Y102

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- 2.2. Place of marking: On the silencer, see drawing:  
Y102: Silencer
- 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 right side of the vehicle

### 3. Test report

New tests were not necessary because the new vehicles are equipped originally with the same exhaust system as already tested vehicles with this type, and the noise and emission test results are comparable to the new vehicles.

#### 3.9. Test results

- The results of
- 3.9.1. Noise testing
  - 3.9.2. Power measurement
  - 3.9.3. Top speed
  - 3.9.4. Emission test
- are attached in the enclosure.

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.

- 3.9.5. The described non-original exhaust system / technical unit is suitable for an application at the vehicles listed in enclosure 2.
- 3.9.6. The general specifications concerning 97/24/EC capt.9 annex III point 3.5.1 were checked and fulfilled regarding the technical possibilities by the non-original exhaust system / technical unit.

### 4. Enclosures

Enclosure 1, Composition of the non original exhaust system  
Enclosure 2, Field of application  
Enclosure 3, Test results  
Enclosure 4, Test results according pollution  
Information Document

Techn. Report No.: 14-00006-CM-MIL-01  
 Manufacturer: Termignoni S.p.A  
 15077 Predosa (AL)  
 Type: Y102

## 5. Summary

The information folder as mentioned under No. 0.5 and the type described therein are in compliance with the test specification mentioned above. The worst-case was selected in accordance with document "Preparation of Test Reports".

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.

Designated as Technical Service by:

Approval authority	Country	Registration-number	Actual scope list
Kraftfahrt-Bundesamt (KBA)	Deutschland/ Germany	KBA-P 00100-10	<a href="http://www.kba.de">www.kba.de</a>
Vehicle Certification Agency (VCA)	Vereintes Königreich/ United Kingdom	VCA-TS-006	<a href="http://ec.europa.eu/enterprise/sectors/automotive/approval-authorities-technical-services/technical-services/index_en.htm">http://ec.europa.eu/enterprise/sectors/automotive/approval-authorities-technical-services/technical-services/index_en.htm</a>
Approval Authority of the Netherlands (RDW)	Niederlande/ The Netherlands	RDW-99050009 01	
National Standards Authority of Ireland (NSAI)	Irland/ Ireland	Technical Service Number: 49	
Vehicle Safety Certification Center (VSCC)	Taiwan/ Taiwan	DE04-06-2	<a href="http://www.vsc.org.tw/English/Default.aspx">http://www.vsc.org.tw/English/Default.aspx</a>

München, 23.01.2015



Pietro Vergani  
 Authorized Signatory





**ENCLOSURE 1**

**To test report no.**  
**Type:**  
**Manufacturer:**

**14-00006-CM-MIL-01**  
**Y102**  
**Termignoni S.p.A.**

**Composition of the original exhaust system + original parts**

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No.	Components parts, dimensions in mm	Dimensions of the part in mm or original part / replacement part	Part no. or homologation no.
1)	Collectors	Notice drawing	Drawing Y102: Collectors and Drawing Y102: Final body
2)	Catalytic converter	∅ 62x127	Drawing Y102: CATALYTIC CONVERTER
3)	Reduction	Notice drawing	Drawing Y102: TAPPO
4)	Silencer (outlet pipe ∅ 51x47 mm)	one silencer on the right, ∅ 130x110 mm, total length 480 mm, absorption- reflection- principle with an outlet pipe 51x47 mm with covering pipe ∅ 35 mm	Drawing Y102: SILENCER



**ENCLOSURE 2**

**To test report no.**  
**Type:**  
**Manufacturer:**

**14-00006-CM-MIL-01**  
**Y102**  
**Termignoni S.p.A.**

**Field of application**

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No. of vehicle	Manufacturer	Make	Commercial name	Vehicle type (and no. of homologation)	Engine type	Stroke	Engine capacity in cm <sup>3</sup>	Rated maximum engine power in kW/min <sup>-1</sup>	Additional remarks:	Composition as shown in enclosure no. 1
1)	YAMAHA MOTOR CO., LTD	YAMAHA	MT-09 / MT-09 ABS	RN29 e13*2002/24*0643*	N701E	4-stroke	847	84,6 / 10000	with cat	1) 2) 3) 4) (*)
2)			MT-09 TRACER					84,6 / 10000		
3)			MT-09 STREET RALLY					84,6 / 10000		
4)			MT-09 SPORT TRACKER / MT-09 SPORT TRACKER ABS					84,6 / 10000		

(\*) The Catalytic converter with separate marking TERMIGNONI Y102 e110896 5 9 must be correctly placed in the assembly, in order to fulfil the requirements of the complete exhaust system. The installation of the muffler, separated by the catalytic converter, is not allowed and doesn't fulfil the directive requirements



**ENCLOSURE 3**

**To test report no.**  
**Type:**  
**Manufacturer:**

**14-00006-CM-MIL-01**  
**Y102**  
**Termignoni S.p.A.**

**Test results**

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No. of vehicle	Engine power original kW/min <sup>-1</sup>	Engine power non original kW/min <sup>-1</sup>	Vmax original km/h	Vmax non original km/h	measured in gear ratio	Limit Value **)	Original measured	Non original measured	at km/h	Vehicle type hom.	Original measured	Non original measured	at min <sup>-1</sup>
1) A*	84,6 / 10000	81,7 / 10000	-	-	2/3	80	80	79	50	94	94	94	5000

\*) *Test series*

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





**ENCLOSURE 4**

**To test report no.**  
**Type**  
**Manufacturer:**

**14-00006-CM-MIL-01**  
**Y102**  
**Termignoni S.p.A.**

**Test results according pollution**

Type I

Equivalent flywheel mass	260 kg
--------------------------	--------

	CO [g/km]	HC [g/km]	NO <sub>x</sub> [g/km]
Test 1	0,296	0,069	0,030
Test 2	-	-	-
Test 3	-	-	-
<i>Average</i>	0,296	0,069	0,030
<i>Limits C, II</i> (Vh≥150cm³)	2,62	0,33	0,22

Type II

Running condition	CO [Vol %]	Engine rpm [min <sup>-1</sup> ]	Engine oil temperature [K]
Nominal idle speed	0,12	1100	365
Exceeded idle speed	0,11	2300	365

