



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED ⁽¹⁾ 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*0907*00

Report No 14-00025-CM-MIL-00, by technical service TÜV SÜD Auto Service, date 28 July 2014

Reason(s) for extension: Not applicable

1. Make of exhaust: Termignoni
2. Type of exhaust: Y104
3. Name and address of manufacturer:
Termignoni S.p.A.
Via della Rampina, 1
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 GRANTED

8. Place: BRISTOL

9. Date: 01 AUGUST 2014

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*0907*00

INFORMATION PACKAGE CONTENTS

INDEX REVISION NUMBER: Not applicable

Total number of sheets: 10 (Ten)

Reasons for Revision: Not applicable

Revision date
&
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EAQ305327

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 2009/108/EC)

1. *Make (trade name of manufacturer):* Termignoni
2. *Type and general commercial description:* Y104
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 2009/108/EC are mentioned in the motorcycle homologation (notice enclosure 2 of the test report).



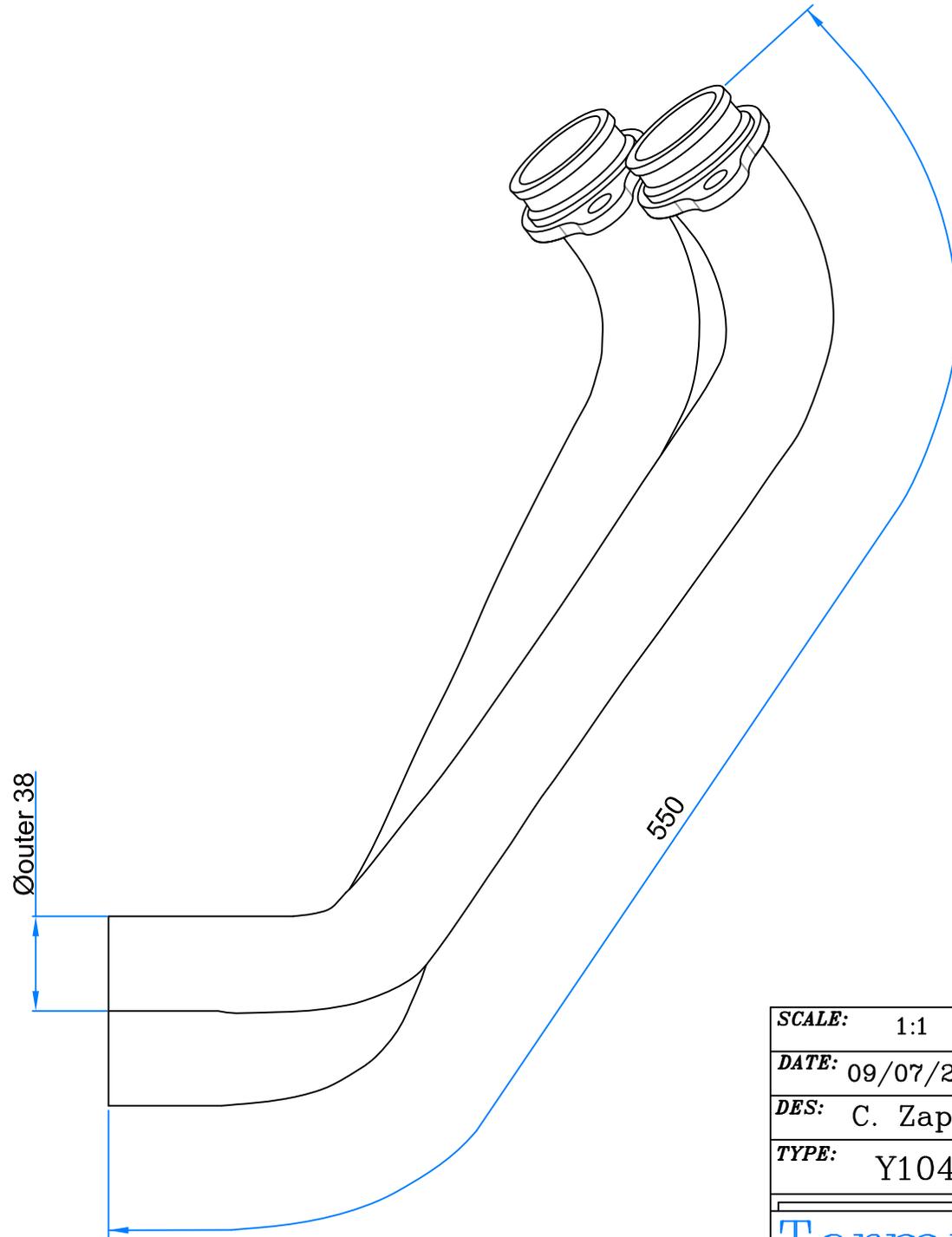


Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2009/108/EC)

<i>Enclosures</i>	<i>Drawing no.</i>	<i>Date</i>
<i>Drawing of collectors</i>	Y104: COLLECTORS	09/07/2014
<i>Drawing of silencer</i>	Y104: SILENCER	15/07/2014
<i>Drawing of final body</i>	Y104: FINAL BODY	15/07/2014
<i>Drawing of catalytic converter</i>	Y104: CATALYTIC CONVERTER	15/07/2014
<i>Drawing of reduction</i>	Y104: TAPPO	15/07/2014
<i>Drawing of composition</i>	Y104: ASSEMBLY	15/07/2014
<i>List of vehicles</i>		
<i>Fitting instructions</i>		



Material: Stainless steel or titanium



SCALE: 1:1	MODEL:
DATE: 09/07/2014	YAMAHA MT-07 2014
DES: C. Zappia	Collectors code Y104
TYPE: Y104: Collectors	Y104 e11 0907 ⑤⑨

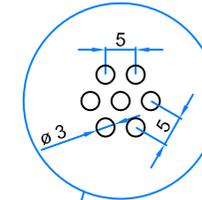
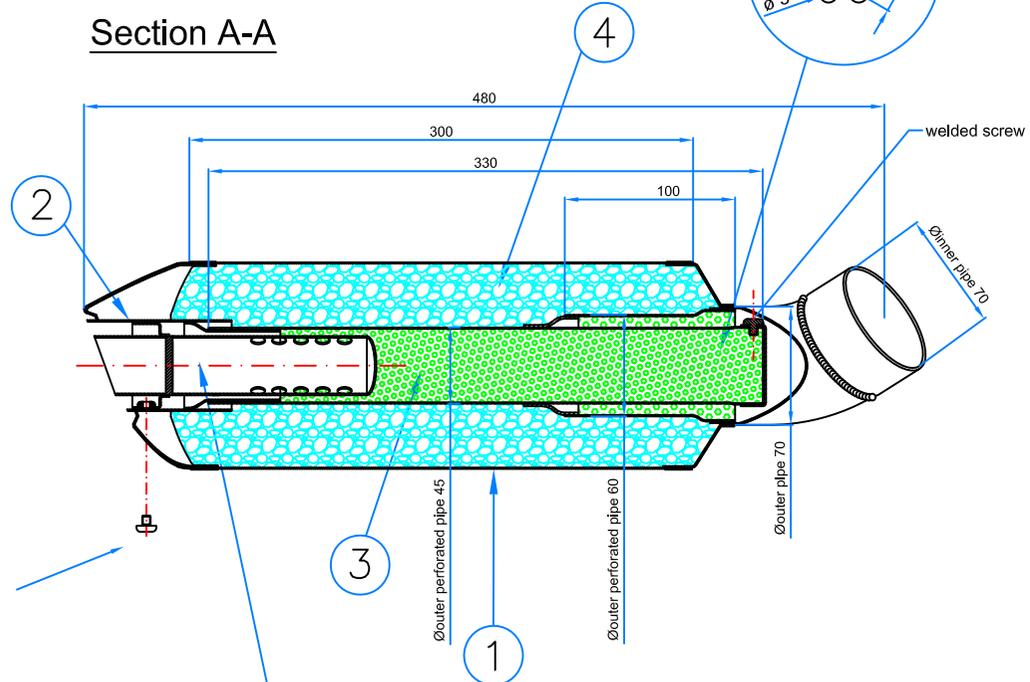
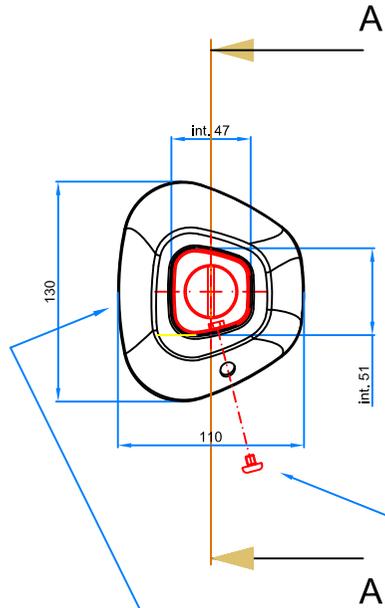


Termignoni S.p.A.

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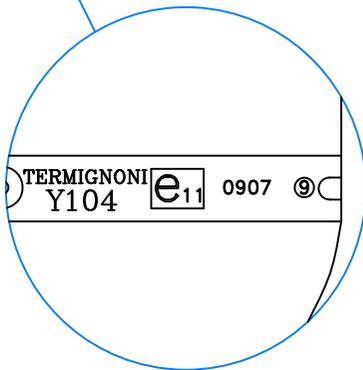
General tolerance: ±1mm

DETAIL (NOT IN SCALE)



Welded screw

see drawing
"Y104: TAPPO"



DETAIL (NOT IN SCALE)

PART LIST

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

SCALE:

MODEL:

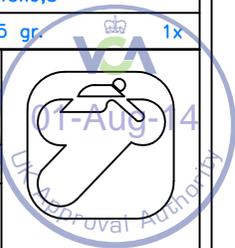
DATE: 15/07/2014

YAMAHA MT-07
SILENCER code Y104
Y104 e11 0907 ©

NAME: E. Vrapì

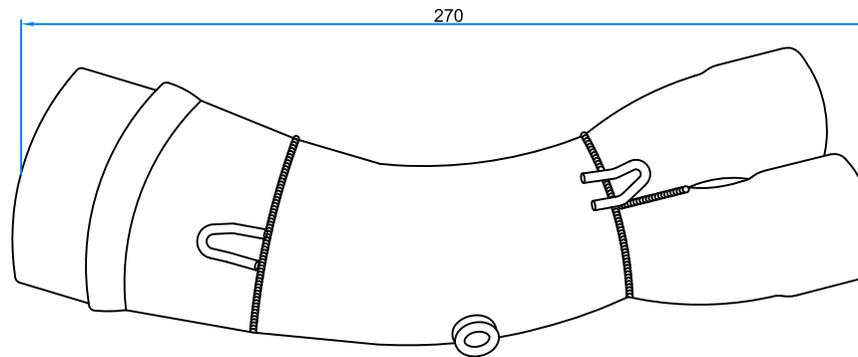
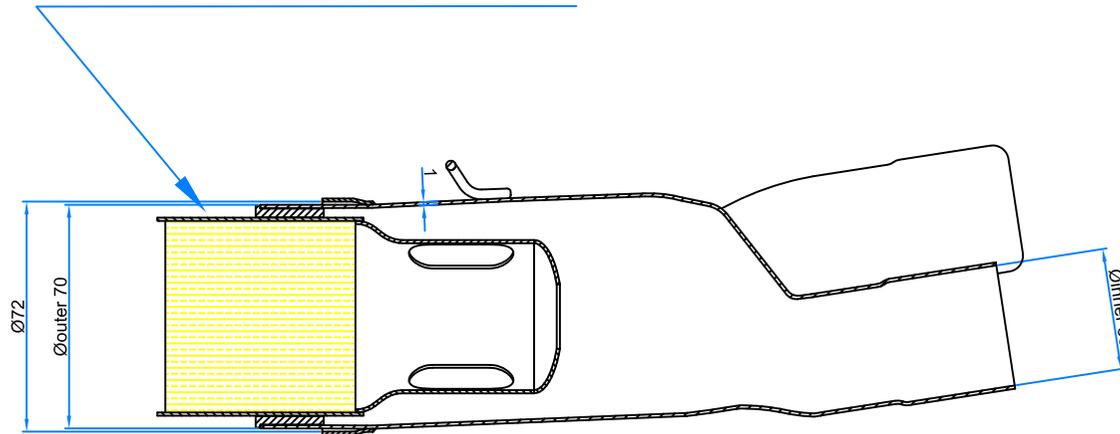
TYPE: Y104: SILENCER

Termignoni s.p.a.



Material: Stainless steel or titanium

see drawing
"Y104: Catalytic converter"



SCALE: 1:1	MODEL: YAMAHA MT-07 2014
DATE: 15/07/2014	Final body code Y104
DES: C. Zappia	Y104 e11 0907 ⑤⑨
TYPE: Y104: Final body	

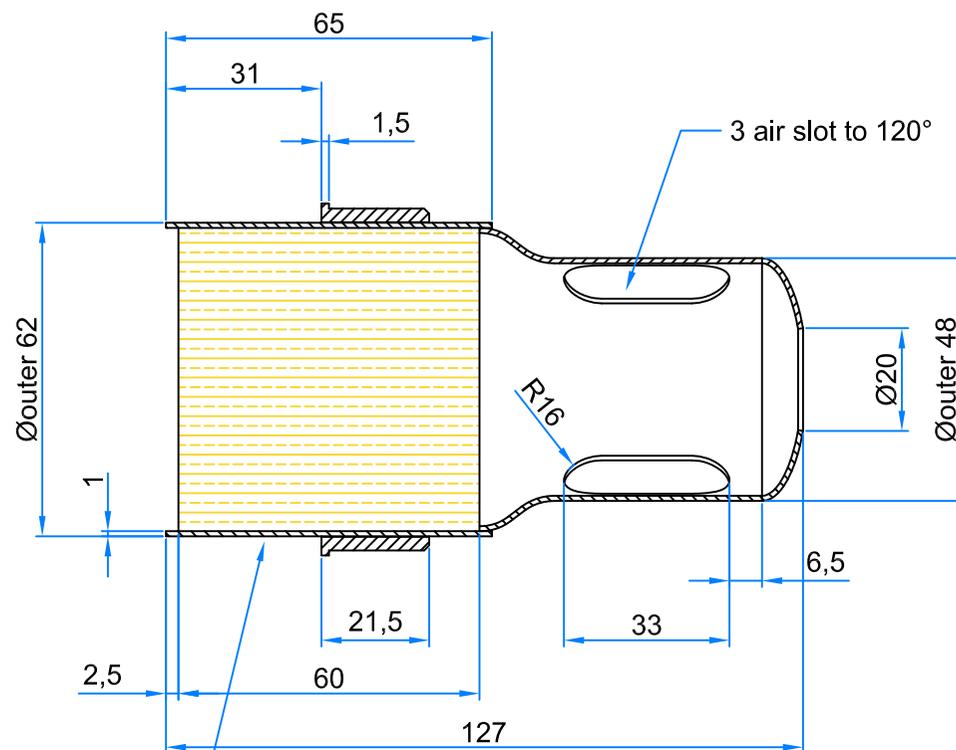
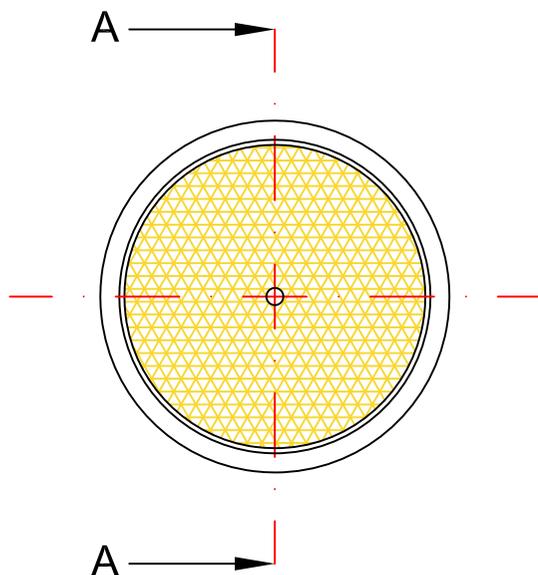
Termignoni S.p.A.



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

MATERIAL: S.Steel or Titanium

Section A - A



TERMIGNONI
Y104  0907 ⑤ ⑨

CHARACTERISTICS

DIMENSIONS : Øi 60x60 mm.

CPSI : 400

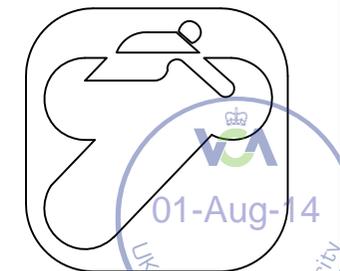
FORMULATION : Pt/Pd/Rh

RATIO : 1/13/1

LOADING : 140 gr/fts

SCALA: 1:1	MODEL: YAMAHA MT-07 2014 Catalytic converter Y104 e11 0907 ⑤ ⑨
DATUM: 15/07/2014	
NAME: E. Vrapì	
Type: Y104: Catalytic converter	

Termignoni s.p.a.

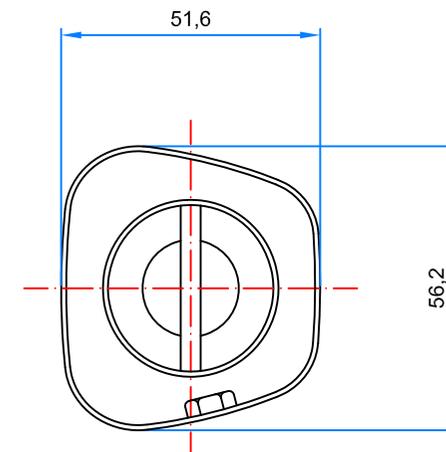
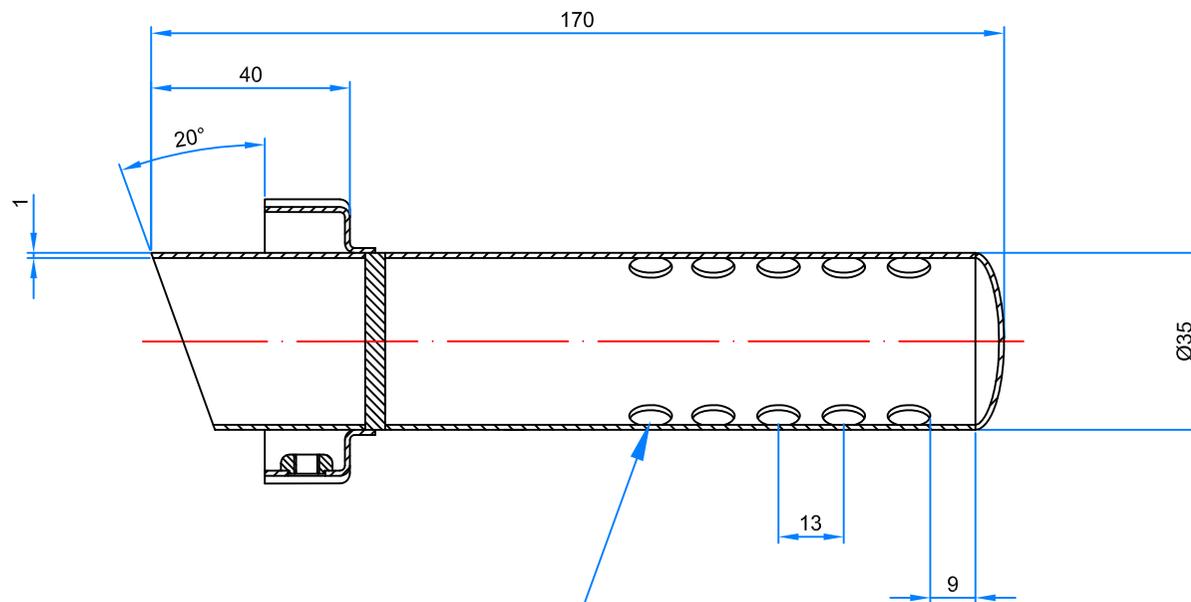


info@termignoni.it

Cod. TERMIGNONI TY170

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

MATERIAL: S.Steel or Titanium

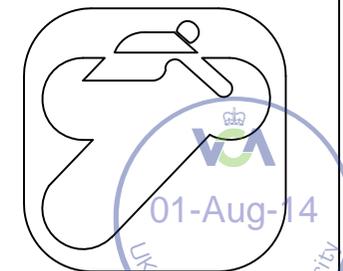


3 rows of $\varnothing 9$ holes at 120°

SCALA: 1:1	MODEL: YAMAHA MT-07 2014
DATUM: 15/07/2014	Tappo code Y104
NAME: E. Vrapì	Y104 e11 0907 ⑤ ⑨
Tipè: Y104: Tappo	

Cod. TERMIGNONI TER532

Termignoni s.p.a.

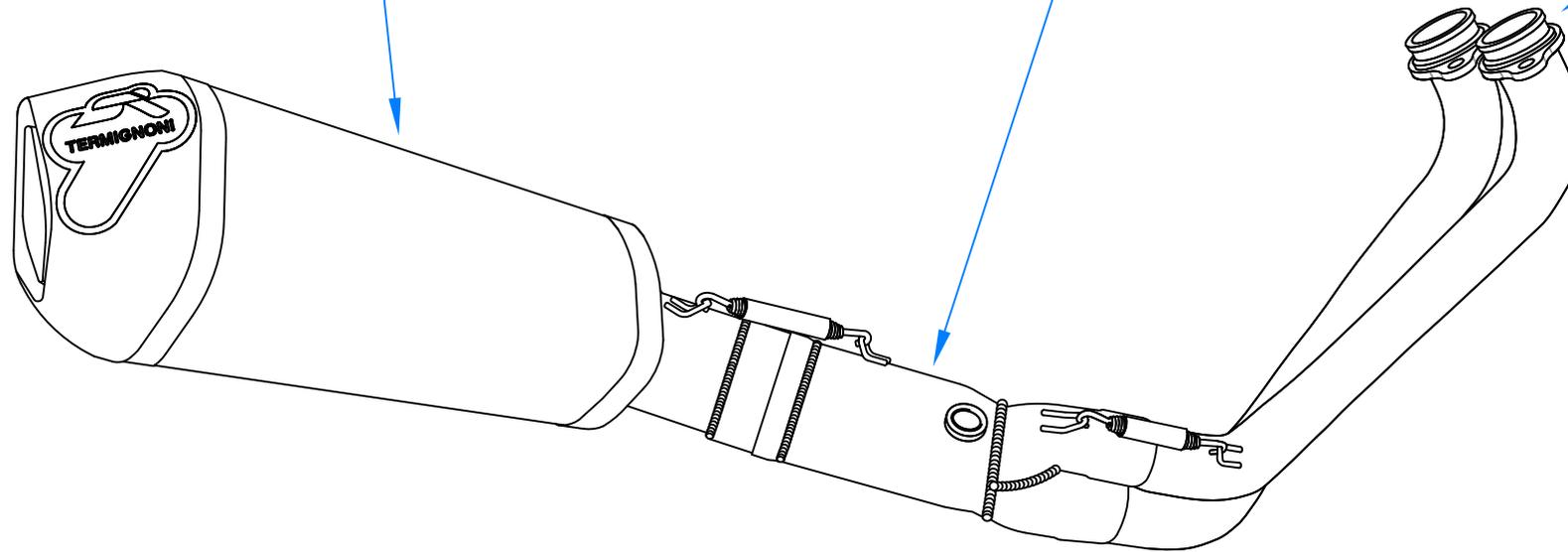


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SILENCER
see drawing "Y104: Silencer"

COLLECTORS
see drawing "Y104: COLLECTORS"

FINAL BODY
see drawing "Y104: Final Body"



SCALE:	MODEL:
DATE: 15/07/2014	YAMAHA MT-07 2014
NAME: C. Zappia	SILENCER code Y104
	Y104 e11 0907 ⑤ ⑨
TYPE:	Y104: ASSEMBLY

Termignoni s.p.a.



INFORMATION DOCUMENT N° Y104/97/24 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)	Yamaha Motor Co. Ltd.	YAMAHA	MT-07 / MT-07 ABS	RM04 e13*2002/24*0660*00	M401E	4-stroke	689	55 / 9000	with cat	1) 2) 3) 4) 5)





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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



Techn. Report No.: 14-00025-CM-MIL-00
Manufacturer: Termignoni S.p.A
15077 Predosa (AL)
Type: Y104

TEST REPORT

No. 14-00025-CM-MIL-00

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 2009/108/EG
Concerning chapter 9, annex III

Approval status	
<input checked="" type="checkbox"/>	Granting of a type approval
<input type="checkbox"/>	Extension/correction to type approval no. --

Techn. Report No.: 14-00025-CM-MIL-00
Manufacturer: Termignoni S.p.A
15077 Predosa (AL)
Type: Y104

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Reason for extension:

It will be changed: Not applicable

It will be updated: Not applicable

0. General information

- 0.1. Make: TERMIGNONI
- 0.2. Type: Y104
- 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: Y104/97/24 rev. 00
Date: 28.07.2014
- 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, maximum shape 130x110 mm, absorption-reflection principle with outlet pipe \varnothing 33 mm according to drawing no. Y104: Silencer, in combination with non original header system, according to drawing no. Y104: Collectors. Equipped with catalytic converter inside of the inlet section of silencer according to drawings no. Y104: Final body and Y104: Catalytic converter. Aluminium-alternatively stainless steel alternatively titanium alternatively carbon fiber-cover.



Techn. Report No.: 14-00025-CM-MIL-00
Manufacturer: Termignoni S.p.A
15077 Predosa (AL)
Type: Y104

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- 2.2. Place of marking: On the silencer, see drawing:
Y104: 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

The tests were carried out in 2 series A at 22/07/2014 and B at 24/07/2014

3.1. **Vehicle**

- (0.1) Make: YAMAHA
- 3.1.1. Type / Variant / Version: RM04
- 3.1.1.1 Model: MT-07
- 3.1.2. Manufacturer: Yamaha Motor Co., Ltd.
- 3.1.3. Homologation no.: e13*2002/24*0660*
- 3.1.3.1 Extension: 00
- 3.1.4. Vehicle identification no.: *JYARM041000004077*
- 3.1.5. Year of manufacture: 2014
- 3.1.6. Kilometers: 1498
- 3.1.7. Total weight: 179 kg

3.2. **Engine**

- 3.2.1. Manufacturer: Notice 3.1.2
- Trade name: YAMAHA
- 3.2.2. Type: M401E

Techn. Report No.: 14-00025-CM-MIL-00
Manufacturer: Termignoni S.p.A
15077 Predosa (AL)
Type: Y104

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- 3.2.3. Engine capacity: 689 cm³
3.2.4. Rated maximum engine power: 55 kW at 9000 min⁻¹

3.3. Transmission

- 3.3.1. Kind of transmission: Mechanical
3.3.4. Gearbox: 6 Speed
3.3.5. Transmission ratios:
primary / final Notice vehicle homologation no. s. 3.1.3
Top speed: Notice vehicle homologation no. s. 3.1.3
Tires:
front 120/70ZR17 M/C (58W)
rear 180/55ZR17 M/C (73W)

3.4. Assembly of the exhaust system

(no. of parts, enclosure 1): 1) 2) 3) 4)

3.5. Acoustic measurements

- 3.5.1. Manufacturer of the sound level meter: Brüel & Kjaer
3.5.2. Type of the sound level meter: 2236
3.5.3. Drive by noise, stationary noise:
according to the Council Directive No. 97/24/EC with the amendment 2009/108/EC chapter 9 III.
3.5.4. Load condition during drive by test: Unloaded weight plus 80kg driver
3.5.5. Deviation at calibration: < 0.2 dB(A)

Techn. Report No.: 14-00025-CM-MIL-00
Manufacturer: Termignoni S.p.A
15077 Predosa (AL)
Type: Y104

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3.6. Power measurement

3.6.1. Testing of max. power with non-original exhaust system:

The tested max. power und the engine speed are in the 5% tolerance in comparison with the original exhaust system. (see enclosure)

3.6.2. Testing of top speed with non-original exhaust system:

Not applicable, because vehicle class: Motorcycle L3e

3.7. Conditioning

by pulsation

3.8. Pollution Test

Testing of pollution with aftermarket catalytic converter in combination with non-original exhaust system against the limits mentioned in 97/24/Chap. 5 Annex II, regarding the type approval of the test bikes.

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.

Techn. Report No.: 14-00025-CM-MIL-00
 Manufacturer: Termignoni S.p.A
 15077 Predosa (AL)
 Type: Y104

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

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	www.kba.de
Vehicle Certification Agency (VCA)	Vereintes Königreich/ United Kingdom	VCA-TS-006	http://ec.europa.eu/enterprise/sectors/automotive/approval-authorities-technical-services/technical-services/index_en.htm
Approval Authority of the Netherlands (RDW)	Niederlande/ The Netherlands	RDW-99050009 01	http://www.vscg.nl/Default.aspx
National Standards Authority of Ireland (NSAI)	Irland/ Ireland	Technical Service Number: 49	
Vehicle Safety Certification Center (VSCC)	Taiwan/ Taiwan	DE04-06-1	http://www.vscg.org.tw/English/Default.aspx

München, 28.07.2014



Pietro Vergani
 Authorized Signatory





ENCLOSURE 1

To test report no.
Type:
Manufacturer:

14-00025-CM-MIL-00
Y104
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 Y104: Collectors
2)	Final body	Notice drawing	Drawing Y104: Final body
3)	Catalytic converter	Ø 60 x 60 mm	Drawing Y104: Catalytic converter
4)	Reduction	Notice drawing	Drawing Y104: Tappo
5)	Silencer (outlet pipe Ø 33 mm)	One silencer on the right, maximum shape 130x110 mm, absorption-reflection principle with outlet pipe Ø 33 mm	Drawing Y104: Silencer





ENCLOSURE 2

To test report no.

14-00025-CM-MIL-00

Type:

Y104

Manufacturer:

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 ³	Rated maximum engine power in kW/min ⁻¹	Additional remarks:	Composition as shown in enclosure no. 1
1)	Yamaha Motor Co. Ltd.	YAMAHA	MT-07 / MT-07 ABS	RM04 e13*2002/24*0660*00	M401E	4-stroke	689	55 / 9000	with cat	1) 2) 3) 4) 5)



ENCLOSURE 3

To test report no.
Type:
Manufacturer:

14-00025-CM-MIL-00
Y104
Termignoni S.p.A.

Test results

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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 measured	Non original measured	at km/h	Vehicle type hom.	Original measured	Non original measured	at min ⁻¹
1) A*	55,0 / 9000	55,4 / 9000	-	-	2/3	80	78	77	50	91	91	92	4500

*) *Test series*

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



ENCLOSURE 4

To test report no.
Type:
Manufacturer:

14-00025-CM-MIL-00
Y104
Termignoni S.p.A.

Test results according pollution

Test series: B

Type I

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

	CO [g/km]	HC [g/km]	NO _x [g/km]
Test 1	0,495	0,085	0,040
Test 2	-	-	-
Test 3	-	-	-
<i>Average</i>	0,495	0,085	0,040
<i>Limits C, II</i> (Vh≥150cm³)	2,62	0,33	0,22

Type II

Running condition	CO [Vol %]	Engine rpm [min ⁻¹]	Engine oil temperature [K]
Nominal idle speed	0,09	1200	371
Exceeded idle speed	0,08	2300	371

