



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 2013/60/EC.

EC Component type-approval No: e11*97/24/9/III*2013/60*0930*00

Report No 15-00019-CM-MIL-00, by technical service TÜV SÜD Auto Service, date 09 June 2015

Reason(s) for extension: Not applicable

1. Make of exhaust: Termignoni
2. Type of exhaust: Y106
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: 03 JULY 2015

10. Signature:  D LAWLOR
Head of Technical Standards & Legislation

(1) Delete as appropriate





THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

APPROVAL NUMBER: e11*97/24/9/III*2013/60*0930*00

INFORMATION PACKAGE CONTENTS

INDEX REVISION NUMBER: Not applicable

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Revision date
&
Office stamp

EAQ310672

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



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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 2013/60/EU)

1. *Make (trade name of manufacturer):* Termignoni
2. *Type and general commercial description:* Y106
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
N Y106/97/24 rev. 00

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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 2013/60/EU)

Enclosures

Drawing no.

Date

Drawing of silencer

Y106: Silencer

25/05/2015

Drawing of composition

Y106: Assembly

22/05/2015

List of vehicles

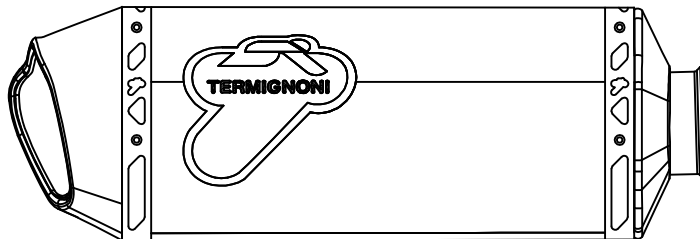
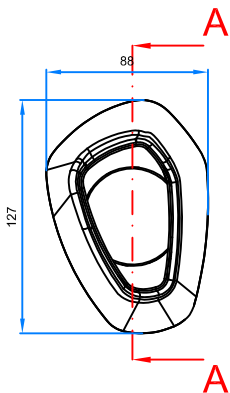
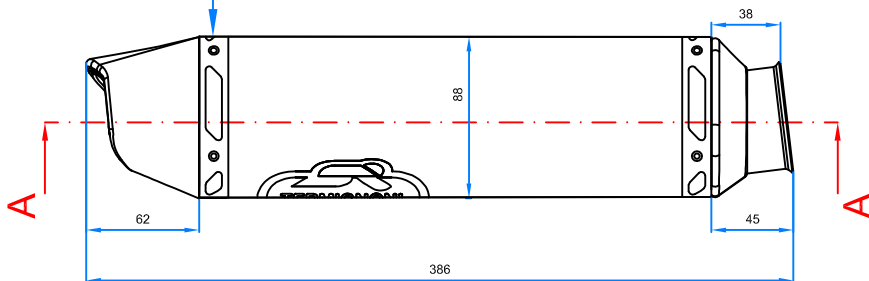
Fitting instructions



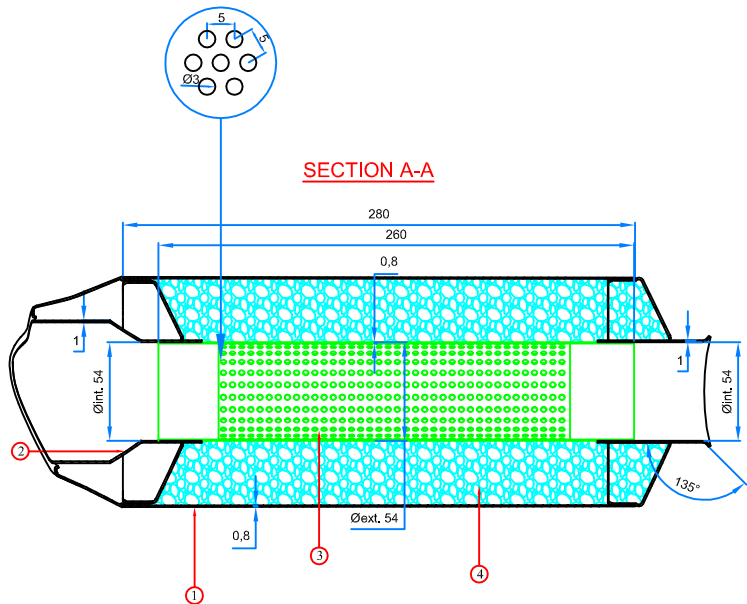
General tolerance: ±1mm

DETAIL NOT IN SCALE

TERMIGNONI
Y106 e11 0930 9



SECTION A-A



Part List

Nr.	Part Name	Material	Dimension	QT.
1	Shell / Outlet Cap	Carbon Fiber	See Drawings	1
2	Outlet Pipe	Titanium	See Drawings	1
3	Perforated inner pipe	Titanium	Øext. 54x0.8	1
4	Soundproof material	S2 Fiberglass	136.5 g	1

SCALE: 1:1

DATE: 25/05/2015

NAME: M. Garampazzi

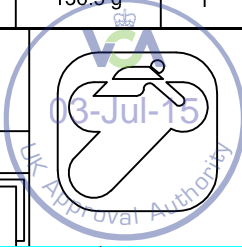
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MODEL:

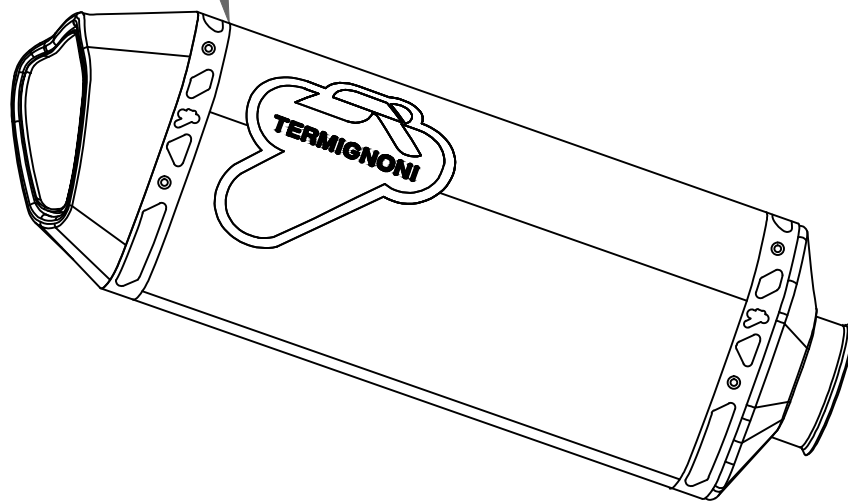
YAMAHA R1 2015
1 SIL. Cod. Y106
Y106 e11 0930 9

Y106: SILENCER

Termignoni s.p.a.



SILENCER
see drawing "Y106_SILENCER"



SCALE: 1:2

DATE: 22/05/2015

NAME: M. Garampazzi

TYPE: Y106: ASSEMBLY

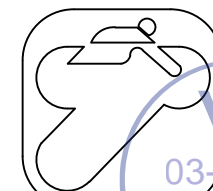
MODEL:

YAMAHA R1 2015

code Y106

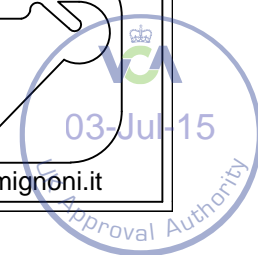
Y106 e11 0930 9

Termignoni s.p.a.



03-Jul-15

www.termignoni.it



INFORMATION DOCUMENT N° Y106/97/24 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	YZF-R1	RN32 e13*2002/24*0740*	N526E	4-stroke	998	147,1 / 13500	with cat*	1) 2) 3)

*) The original catalytic converter remain in the original exhaust system. A degradation of catalyst efficiency is not expected.





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15077 PREDOSA (AL) Italy
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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



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Manufacturer: Termignoni S.p.A
15077 Predosa (AL)
Type: Y106

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TEST REPORT

No. 15-00019-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 2013/60/EU
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.: 15-00019-CM-MIL-00
Manufacturer: Termignoni S.p.A
15077 Predosa (AL)
Type: Y106

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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: Y106
- 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: Y106/97/24 rev. 00
Date: 09.06.2015
- 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, maximum shape 127x88 mm and, total length 386 mm (with endcap), absorption-reflection principle with outlet pipe \varnothing 54 mm according to drawing no. Y106: Silencer, in combination with original header system. Aluminium-alternatively stainless steel alternatively titanium alternatively carbon fiber-cover.
- 2.2. Place of marking: On the silencer, see drawing:
Y106: Silencer

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Type: Y106

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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 right side of the vehicle

3. Test report

The tests were carried out in 1 series A at 28/05/2015

3.1. **Vehicle**

(0.1) Make: YAMAHA

3.1.1. Type / Variant / Version: RN32/A/01

3.1.1.1 Model: YZF-R1

3.1.2. Manufacturer: YAMAHA MOTOR CO., LTD

3.1.3. Homologation no.: e13*2002/24*0740*

3.1.3.1 Extension: 00

3.1.4. Vehicle identification no.: *JYARN321000000624*

3.1.5. Year of manufacture: 2015

3.1.6. Kilometers: 1240

3.1.7. Total weight: 199 kg

3.2. **Engine**

3.2.1. Manufacturer: Notice 3.1.2

Trade name: YAMAHA

3.2.2. Type: N526E

3.2.3. Engine capacity: 998 cm³

3.2.4. Rated maximum engine power: 147,1 kW at 13500 min⁻¹

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Manufacturer: Termignoni S.p.A
15077 Predosa (AL)
Type: Y106

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3.3. Transmission

- 3.3.1. Kind of transmission: Mechanical
- 3.3.4 Gearbox: 6 Speed
- 3.3.5. Transmission ratios:
primary / final See point 3.1.3
- Top speed: See point 3.1.3
- Tires:
front 120/70 ZR17M/C (58W)
rear 190/55 ZR17M/C (75W)

3.4. Assembly of the exhaust system (no. of parts, enclosure 1):

1) 2) 3)

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 2013/60/EU 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)

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)

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15077 Predosa (AL)
Type: Y106

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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
- 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
Information Document

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15077 Predosa (AL)
Type: Y106

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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".

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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/enterpri se/sectors/automotive/appr oval-authorities-technical- services/technical- services/index_en.htm
Approval Authority of the Netherlands (RDW)	Niederlande/ The Netherlands	RDWT-082-01	
National Standards Authority of Ireland (NSAI)	Irland/ Ireland	Technical Service Number: 49	
Vehicle Safety Certification Center (VSCC)	Taiwan/ Taiwan	DE04-06-2	http://www.vsc.org.tw/Engl ish/Default.aspx

München, 09.06.2015



Pietro Vergani
Authorized Signatory

ENCLOSURE 1

To test report no.

15-00019-CM-MIL-00

Type:

Y106

Manufacturer:

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 and final body	Original part	--
2)	Catalytic converter	Original part	--
3)	Silencer (outlet pipe Ø 127x88 mm)	One silencer on the right, maximum shape 127x88 mm and, total length 386 mm (with endcap), absorption-reflection principle with outlet pipe Ø 54 mm	Drawing Y106: Silencer

ENCLOSURE 2

To test report no.
Type:
Manufacturer:

15-00019-CM-MIL-00
Y106
Termignoni S.p.A.

Field of application

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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)	YAMAHA MOTOR CO., LTD	YAMAHA	YZF-R1	RN32 e13*2002/24*0740*	N526E	4-stroke	998	147,1 / 13500	with cat*	1) 2) 3)

*) The original catalytic converter remain in the original exhaust system. A degradation of catalyst efficiency is not expected.

ENCLOSURE 3

To test report no.

Type:

Manufacturer:

15-00019-CM-MIL-00

Y106

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	measure d 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*	147,1 / 13500	146,9 / 13500	-	-	2/3	80	80	80	50	99	98	98	6750

*) *Test series*

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