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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: 12 (Including Annex)

Predosa, IT
25.10.2017


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
25.10.2017


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:** Y116
- Variants: SSSF, SSTF, STSF, STTF, TSSF, TSTF, TTTF, CSSF, CSTF, CTSF, CTTF

for details see page 6.

0.8.1. Commercial name (if available): N/A

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

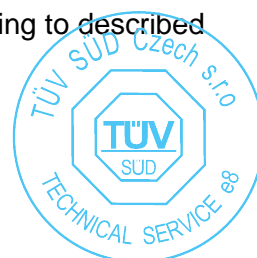
0.10. Vehicle for which the system/separate technical unit is intended for


- | | | |
|------------------------------|-----------------------|-------------------------------------|
| 0.10.1. Make: | Yamaha | Yamaha / MBK |
| 0.10.2. Type: | SH08 | SH13 |
| | e13*168/2013*00043*01 | e13*168/2013*00287*00 |
| 0.10.3. Variant: | A | A |
| 0.10.4. Version: | 01, 02, 03 | 01, 02 |
| 0.10.5. Commercial name: | CZD300-A (X-MAX 300) | A/01: X-MAX 300
A/02: EVOLIS 300 |
| 0.10.6. Category of vehicle: | L3e-A2 | 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

Type:	SH08	SH13
1.8.1. Declared maximum vehicle speed:	138 km/h	
1.8.3. Maximum net power combustion engine:	20,6 kW @ 7250 rpm	
1.8.4. Maximum net torque combustion engine:	29,0 Nm @ 5750 rpm	
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

Type:	SH08	SH13
4.0.1. Environmental step:	4	
4.0.2. Fuel consumption:	3,2l/100km	
4.0.3. CO ₂ emissions:	74 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. Y116_Silencer, consists of: single conic shaped silencer on the right side of the vehicle rear, maximum section diameter of Ø138mm, total length 515 + 186,6 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 twelve possible variants: SSSF, SSTF, STSF, STTF, TSSF, TSTF, TTTF, CSSF, CSTF, CTSF, CTTF

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:

- SSSF: Stainless Steel (Shell), Stainless Steel (outlet pipe), Stainless Steel (punched-holes Pipe), Fibre Glass (sound deadener).
- SSTF: Stainless Steel (Shell), Stainless Steel (outlet pipe), Titanium (punched-holes pipe), Fibre Glass (sound deadener).
- STSF: Stainless Steel (Shell), Titanium (outlet pipe), Stainless Steel (punched-holes pipe), Fibre Glass (sound deadener).
- STTF: Stainless Steel (Shell), Titanium (outlet pipe), Titanium (punched-holes pipe), Fibre Glass (sound deadener).
- TSSF: Titanium(shell), Stainless Steel (outlet pipe), Stainless Steel (punched-holes pipe), Fibre Glass (Sound Deadener).
- TSTF: Titanium(shell), Stainless Steel (outlet pipe), Titanium (punched-holes pipe), Fibre Glass (sound deadener).
- TTTF: Titanium(shell), Titanium (outlet pipe), Titanium (punched-holes pipe), Fibre Glass (sound deadener).
- CSSF: Carbon Fibre (shell), Stainless Steel (outlet pipe), Stainless Steel (punched-holes pipe), Fibre Glass (sound deadener).
- CSTF: Carbon Fibre (shell), Stainless Steel (outlet pipe), Stainless Steel (punched-holes pipe), Fibre Glass (sound deadener).
- CTSF: Carbon Fibre (shell), Titanium (outlet pipe), Stainless Steel (punched-holes pipe), Fibre Glass (sound deadener).
- CTTF: Carbon Fibre (shell), Titanium (outlet pipe), Titanium (punched-holes pipe), Fibre Glass (sound deadener).

Place of marking:

On the silencers, see enclosed drawings of silencers and composition Y116_Silencer



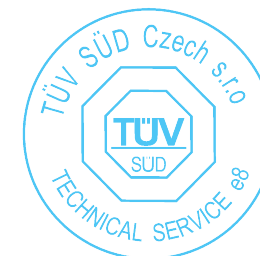


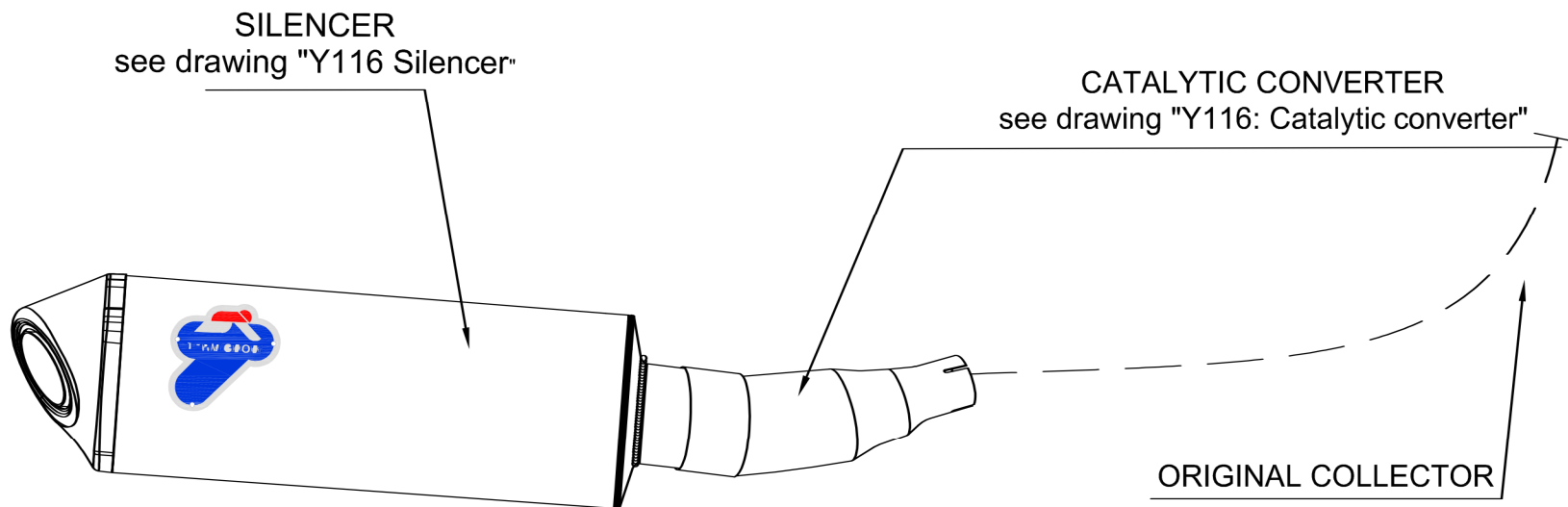
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Date: 04/08/2017
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Appendix 1 - Composition of the original exhaust system + original parts

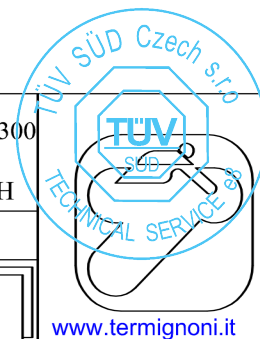
No.	Components parts, dimensions in mm	Dimensions of the part in mm or original part / replacement part	Part no. or homologation no.
1)	Collectors and final body	Original part	--
2)	Catalytic converter	Ø65x100 400CPSI	Y116_Catalytic converter
3)	Silencers (Single outlet pipe, inner section Ø33 mm)	single conic shaped silencer on the right side of the vehicle rear, maximum section diameter of Ø138mm, total length 515 + 186,6 mm (with endcap and junction pipe), absorption-reflection principle with single outlet pipe of Ø22 mm (inner section), in combination with original header system.	Y116_Silencer
4)	Silencer composition	SSSF, SSTF, STSF, STTF, TSSF, TSTF, TTTF, CSSF, CSTF, CTSF, CTTF	Y116_Silencer, Y116_Assembly

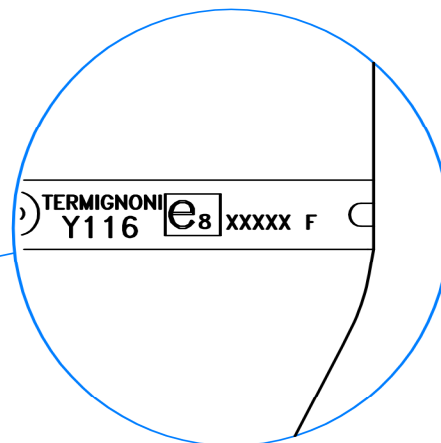
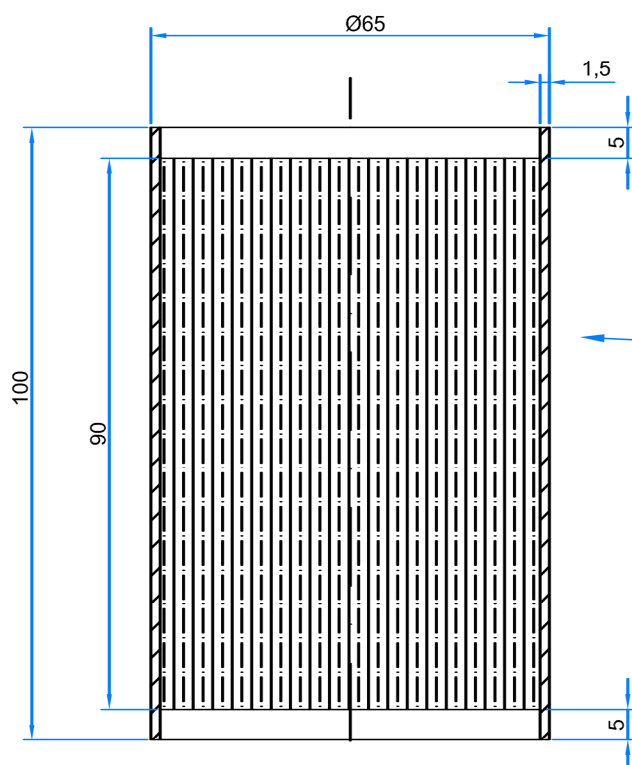




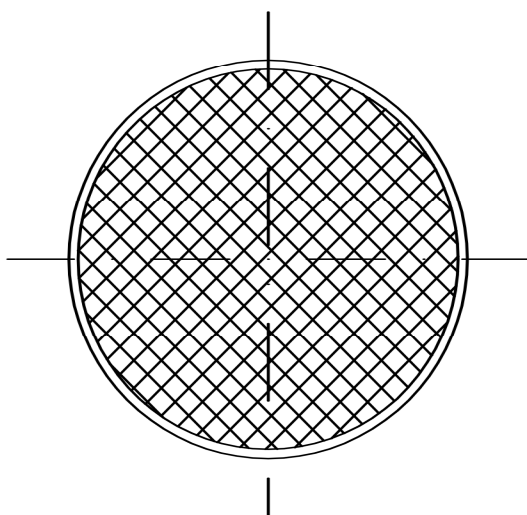
SCALE:	MODEL:
DATE: 25/10/2017	YAMAHA X-MAX 300
NAME: S.Emanuelli	Assembly
TYPE: Y116: Assembly	Y116 e8 XXXXX H

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DETAIL (NOT IN SCALE)



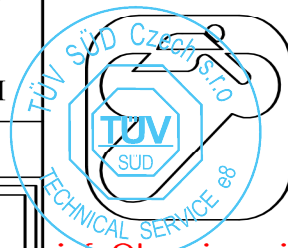
CHARACTERISTICS

CPSI : 400

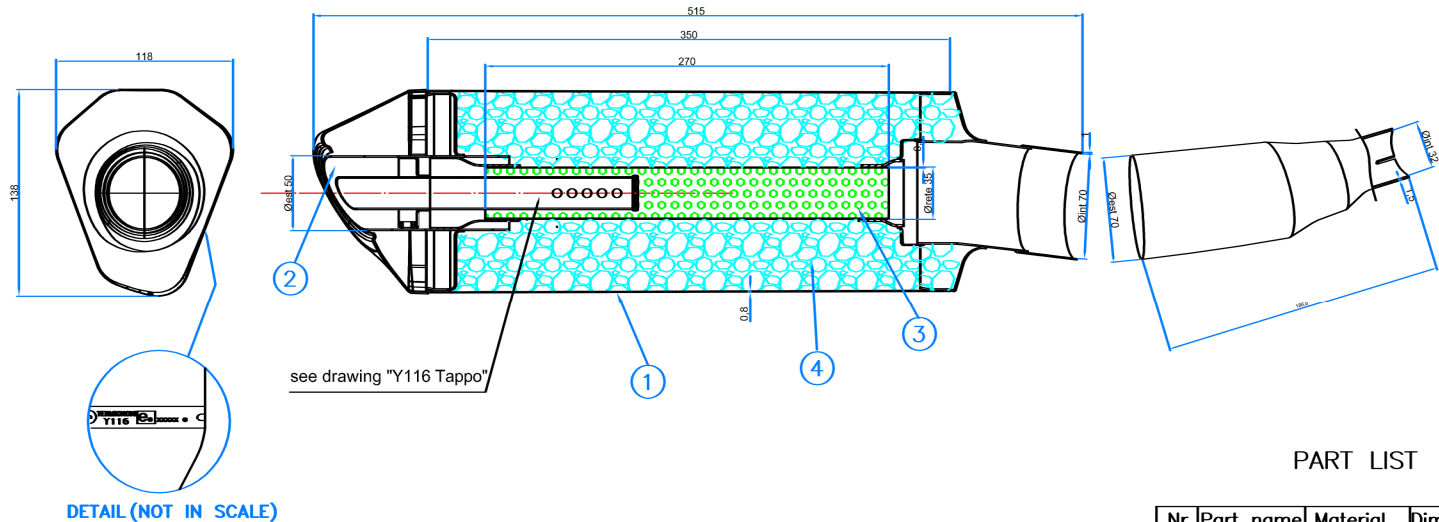
FORMULATION : Pt/Pd/Rh

RATIO : 1/10/1

LOADING : 40 gr/ft³

SCALE:	MODEL:	
DATE:	YAMAHA X-MAX	
25/10/2017	300 2017	
DES: S.Emanuelli	1 Sil. cod. Y116	
TYPE: Y116: Catalytic converter	Y116 e8 XXXXX H	
Termignoni s.p.a.		info@termignoni.it

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Appendix 4 – Drawing of silencer “Y116_Silencer”



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
2	Outlet Pipe	Stainless Steel	See Drawing	1x
		or Titanium	See Drawing	1x
3	Purched-holes pipe	Stainless Steel 1.45x0.8	See Drawing	1x
		or Titanium 1.45x0.8	See Drawing	1x
4	Sound deadener	Fiberglass	650± +10%	1x

SCALE: YAMAH-X-MAX 100 200

DATE: 25/10/2017

NAME: S. Benvenuti

TYPE: Y116 SILENCER

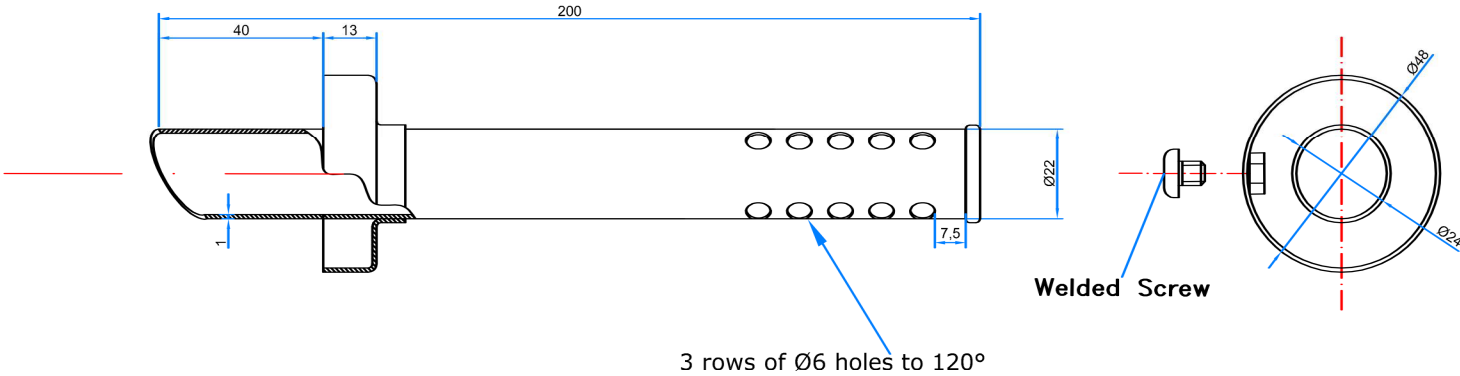
Termignoni s.p.a.

MODEL: Y116 e8 XXXXX-H

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

MATERIAL: S.Steel or Titanium

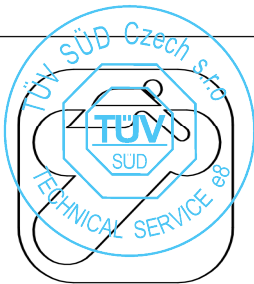
INFORMATION DOCUMENT N° Y116/134/2014 rev. 00
Appendix 5 – Drawing of outlet pipe “Y116_Tappo”



SCALA:	MODEL:
DATUM: 25/10/2017	YAMAHA X-MAX 300 2017
NAME: S.Emanuelli	1 Sil. cod. Y116
	Y116 e8 XXXXX H
Type:	Y116 Tappo

Termignoni

s.p.a.



info@termignoni.it

Cod. TERMIGNONI TER669



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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

