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Mr Emmanuel Nucci
TÜV Italia

Your Reference: 374-0073-08-ITA

Our Reference: EAJ192099

Date: 09 July 2008

MANUFACTURER: Termignoni S.r.l.

VEHICLE TYPE: HDXR

EEC DIRECTIVE: 97/24EC

APPROVAL NUMBER: e11*97/24*97/24/9/III*0647*00

1. This vehicle type has been tested and, according to your technical report, meets the requirements of the above EEC Directive. I enclose a set of approval documents, each comprising the approval, your technical report and the manufacturer's documentation duly authenticated.

2. If you think there are any errors in the enclosed package, please contact Andrew Meadows, telephone 0117 952 4187 immediately. Please be aware that from the date of issue we have a three week holding period, any corrections required after this time will need to be corrected via an extension, index revision or correction 1 certificate, as appropriate.

Yours sincerely

Jessica Stephens
Product Certification

INVESTOR IN PEOPLE

POSITIVE ABOUT DISABLED PEOPLE

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1. CONDITIONS

1.1 This Approval may be withdrawn at any time and while held is subject to the following conditions.

2. CONDITIONS OF MOTOR VEHICLE PARTS

2.1 The holder of this approval shall put the approval mark described in the Motor Vehicles (Designation of Approval Marks) Regulations 1979 as amended only on Motor Vehicle Parts that:

a. Have been manufactured, assembled or completed in factories under his control and

b. Conform in all material respects with the samples, which were tested before this approval was issued.

2.2 The holder of this approval shall mark his products in the manner set out in the relevant Regulation/Directive as given in the Motor Vehicles (Designation of Approval Marks) Regulations 1979 as amended together with:

a. The approval number allocated by the Secretary of State for Transport.
b. His name or trademark
c. Any other markings specified in the appropriate international Regulation

2.3 The holder of this approval shall be prepared at any time to satisfy Department for Transport officials or agents of the Department, that the quality of the part being produced and marked or intended to be by him with the approval marking conforms in all material respects with that of the samples tested as the International Regulation requires.

2.4 The holder of this approval undertakes to admit duly authorised officials or agents of the Department at all reasonable times to any premises in which parts marked or intended to be marked are being manufactured, assembled or stored and to permit any such official or agent to inspect parts and all records relating to them and their production processes.

2.5 This approval may be suspended or withdrawn by the Secretary of State for Transport at any time without any particular length of notice being given and in the event of that being done the holder will absolve the Secretary of State from any claim for damages or compensation.

3. CONDITIONS FOR MOTOR VEHICLES

3.1 The holder of this approval shall put the approval mark described in the Motor Vehicles (Designation of Approval Marks) Regulation 1979 as amended only on Motor Vehicles fitted with Motor Vehicle parts which Motor Vehicles as fitted with such parts conform with the type of Motor Vehicle approved by as on behalf of the Secretary of State for Transport and only on Motor Vehicles that:

a. Have been manufactured, assembled or completed in factories under his control and

b. Conform in all material respects with the type of Motor Vehicle, which was tested before an approval certificate was issued.

3.2 The holder of this approval shall mark motor vehicles of the type approved. In the matter set out in the relevant Regulation/Directive using the authorised approval mark as given in the Motor Vehicles (Designation of Approval Marks) Regulation 1979 as amended together with the approval number allocated by the Secretary of State for Transport.

3.3 The holder of this approval shall mark Motor Vehicles of the type approved in the manner set out in the relevant Regulation annexed to the United Nations agreement of 1958 as amended using the authorised approval mark which comprises a capital letter E followed by the number 11 within a circle together with the approval number allocated by the Secretary of State for Transport.

3.4 The holder of this approval shall be prepared at any time to satisfy Department for Transport officials or agents of the Department that Motor Vehicles of the type approved which have been produced and marked or that are intended to be marked by him conform in all material respects with the type of vehicle approved.

3.5 The holder of this approval undertakes to admit duly authorised officials or agents of the Department at all reasonable times to any premises in which the Motor Vehicles of the type approved which have been or are intended to be marked are manufactured, assembled or stored and to permit any such official or agent to inspect the Motor Vehicles and all records relating to them and their production processes.

3.6 This approval may be suspended or withdrawn by the Secretary of State for Transport at any time without any particular length of notice given and in the event of that being done the holder will absolve the Secretary of State from any claim for damages or compensation.

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THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE GRANTING OF COMPONENT TYPE-APPROVAL IN RESPECT OF A NON-ORIGINAL EXHAUST SYSTEM FOR A TYPE OF MOTORCYCLE PURSUANT TO DIRECTIVE 2006/27/EC

Report No: 374-0073-08-ITA By technical service: TÜV Italia S.r.l, TÜV Süd Group dated 04 July 2008
Date: 04 July 2008

Type-approval No: e11*97/24*97/24/9/III*0647*00

Reason for extension: Not applicable

1. Make of exhaust: Termignoni S.r.l.

2. Type of exhaust: HDXR

3. Name and address of Manufacturer:

   Termignoni S.r.l.
   Via Della Rampina, 16
   15077 Predosa (AL)
   Italy

4. If applicable, name and address of manufacturer's authorised 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 has been GRANTED

8. Place: BRISTOL

9. Date: 09 JULY 2008

10. Signature:

A. W. STENNING
Head of Technical and Quality Group

09-Jul-08
UK Approval Authority

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APPROVAL NUMBER: e11*97/24*97/24/9/III*0647*00

INFORMATION PACKAGE CONTENTS

INDEX

REVISION NUMBER: Not applicable

Total number of sheets:	08 (Eight)
Number of separate drawings:	0 (Nil)
Number of separate photographs:	0 (Nil)

Reasons for Revision: Not applicable

EAJ192099

Revision date
&
Office stamp

09-Jul-08
UK Approval Authority

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Automotive

TECHNICAL REPORT

No. 374 - 0073 - 08 - ITA

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 and exhaust systems for two or three-wheel motor vehicles

No. ***97/24/EC*** *including the last amendment* ***2006/120/EC dated 27-Nov.-2006***
concerning ***Chapter 9, annex III***
Approval mark according to annex VI point 6.1.1

09-Jul-08
374007308ITA base
VCA Approval Authority

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Automotive

0. Technical description

0.1.	Make:	Termignoni
0.2.	Type:	**HDXR**
0.2.1.	Variants:	Not Applicable
0.3.	Name and address of the manufacturer:	Termignoni S.r.l. Via della Rampina, 16 I-15077 Predosa (AL)
0.4.	Name and address of manufacturer's authorized representative:	Not applicable
0.5.	Class of the vehicles the unit is used for:	Motorcycle - L3e (according to 2002/24/EC amended 2006/120/EC)

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Automotive

I. Test object(s)

1.1.	Description of the vehicles the unit is used for:	Notice enclosure b
1.2.	Identification number:	TERMIGNONI HDXR e11 0647 9
1.2.1.	Structure of the non-original exhaust system:	Non-original exhaust system, consisting out of two silencers on the right, cylindrical, ∅ 90 mm, total length 519 mm for the top silencer, 484 mm for the bottom one; absorption- reflection-principle with an outlet pipe ∅ 28 mm with covering pipe ∅ 64 mm according to drawing no. HDXR: SILENCER and HDXR: TAPPO, in combination with original header system. Stainless steel- alternatively titanium- alternatively aluminium- alternatively carbon fiber- cover.
1.2.2.	List of parts:	See Test Report
1.2.3.	Position of the marking:	On the silencers, see enclosure c1.
1.2.4.	Make vehicles tested:	Harley Davidson
1.2.5.	Material of the non-original exhaust system:	See Test Report
1.3.	Remarks:	---

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Automotive

II. Test Report

2.1.	Test equipment:	The tests were effected with an equipment that corresponds to the test requirements
2.2.	Condition under which the above mentioned test Records have been achieved:	See Test Report enclosure
2.2.1	Summary of the Test Records:	See Test Report enclosure
2.3.	General information about the Tests:	
2.3.1.	Weather condition:	See Test Report enclosure
2.3.2.	Place of the test:	See Test Report enclosure
2.3.3.	Date of the test:	See Test Report enclosure

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Automotive

III. Enclosures

a. Test Report
Composition of the non original exhaust system;
Field of application;
Test Records.

	Number	pages	date
1	374-0074-08-ITA	6	04/07/2008

b. Information Document n° HDXR/97/24 rev. 00 04/07/2008

c1. Drawing HDXR: SILENCER 26/06/2008

c2. Drawing HDXR: ASSEMBLY 27/06/2008

c3. Drawing HDXR: TAPPO 27/06/2008

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Automotive

IV. Final confirmation

The named information document and the described type correspond to the Directive 97/24/EC chapter 9, annex III including the last amendment 2006/120/EC.
There are no technical objections against granting an EC Type-approval.

This technical report consists of sheet 1 to 6.

Sachverständiger Prüflabor DIN EN ISO/IEC 17025 TÜV SÜD Automotive GmbH

Recognised Expert
Emmanuel Nucci

pv Sesto San Giovanni (MI),
the 04.07.2008

186621

VCA Approval Authority 09-Jul-08 374007308ITA base

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Automotive

TEST REPORT

No. 374 - 0074 - 08 - ITA

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 and exhaust systems for two or three-wheel motor vehicles

No. 97/24/EC including the last amendment 2006/120/EC dated 27-Nov.-2008 concerning chapter 9, annex III
Approval mark according to annex VI point 6.1.1

0. General information

0.1.	Make:	Termignoni
0.2.	Type:	**HDXR**
0.2.1.	Variants:	Not applicable
0.3.	Name and address of manufacturer:	Termignoni S.r.l. Via della Rampina, 16 I-15077 Predosa (AL)
0.4.	Name and address of manufacturer's authorized representative:	Not applicable

09-Jul-08
374007408ITA - XR1200
VCA Approval Authority

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Automotive

0.5.	No. of information document: Date:	HDXR/97/24 rev. 00 04/07/2008
1.0.	Class of the vehicles the unit is used for:	motorcycle - L3e (according to 2002/24/EC amended 2006/120/EC)
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:

Technical unit, consisting out of two silencers on the right, cylindrical, ∅ 90 mm, total length 519 mm for the top silencer, 484 mm for the bottom one; absorption- reflection-principle with an outlet pipe ∅ 28 mm with covering pipe ∅ 64 mm according to drawing no. HDXR: SILENCER and HDXR: TAPPO, in combination with original header system.
Stainless steel- alternatively titanium- alternatively aluminium- alternatively carbon fiber- cover.

2.2.	Place of marking:	on the silencers, see drawing HDXR: 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 1 series A at 27/06/2008.

09-Jul-08
374007408ITA - XR1200
VCA Approval Authority

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Automotive

3. **Test report** (continuation)

Series A: (no. 1)

3.1. **Vehicle**

	(0.1)	Make:	Harley-Davidson
3.1.1.	(0.2.)	Type / variant / version:	XR1 / Z6F / PEBMS0
3.1.2.	(0.5.)	Manufacturer	Harley-Davidson Motor Company
3.1.3. 3.1.3.1		Homologation no.: Extension:	e4*2002/24*1789 00
3.1.4.		Vehicle identification no.:	*5HD1LA6128K443825*
3.1.5.		Year of manufacture:	2008
3.1.6.	(2.1)	Weight of the vehicle:	260 kg

3.2. **(3.)** **Engine**

3.2.1.	(3.0.)	Manufacturer:	notice 3.1.2
	(3.1.)	Make:	Harley-Davidson
3.2.2.	(3.1.1)	Type:	LA6
3.2.3.		Engine capacity:	1202 cm^3
3.2.4.	(3.2.1.7)	Rated maximum engine power:	67 kW at 7000 min^{-1}

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Automotive

3. **Test report** (continuation)

3.3.	**(4.)**	**Transmission**	
	(4.1)	Drawing of transmission:	notice vehicle homologation no. s. 3.1.3.
3.3.1.	(4.2)	Kind of transmission:	mechanical
	(4.3)	Clutch (kind):	wet multi-plate type
	(4.4)	Gearbox	
3.3.2.	(4.4.1)	Kind	mechanical
	(4.4.2)	Kind of activity:	foot shifted
3.3.4.		No of gears	5
3.3.5.	(4.5.)	Transmission ratios: primary / final	see manufacturer's information document
	(4.6.)	Top speed:	200 km/h
	(5.2.)	Tires: front rear	 120/70 ZR18 180/55 ZR17
3.4.	assembly of the exhaust system (no. of parts, enclosure 1):		1.0., c1., c2., c3.

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EC Approval Authority

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Automotive

3.5. Power measurement

3.5.1. The tested max. power and the engine speed are in the ± 5% tolerance in comparison with the original exhaust system.

3.5.2. Testing of top speed with non-original exhaust system:
Not applicable, because vehicle class : motorcycle

3.6. Conditioning

by pulsation

3.7. Test results

The results of
3.7.1. Sound testing
3.7.2. Power measurement
3.7.3. Top speed
are attached in the enclosure 3.
The results of the sound tests with the original and non original exhaust systems fulfil point 3.5.2.1.1 of Directive 97/24/EC chapter 9, including last amendment 2006/120/EC. 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.
Emission test has not been carried out because the non original exhaust system does change neither catalyst nor vehicle performance.

3.7.5. The described non-original exhaust system / technical unit is suitable for an application at the vehicles listed in enclosure 2.

3.7.6. The general specifications concerning point 3.5.1 of Directive 97/24/EC Chapter 9 (including last amendment 2006/120/EC) were checked and were fulfilled by the non original exhaust system / technical unit.

09-Jul-08
374007408ITA - XR1200
VCA Approval Authority

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Automotive

4. Enclosures

Enclosure 1, Composition of the non original exhaust system (Page 1)

Enclosure 2, Field of application (Page 1)

Enclosure 3, Test results (Page 1)

5. Summary

The named information document and the described type correspond to the Directive 97/24/EC including the amendment 2006/120/EC chapter 9, annex III.
There are no technical objections against granting an EC Type-approval.

This test report contains the pages 1 to 6 and enclosures

Sachverständiger Prüflabor DIN EN ISO/IEC 17025 TÜV SÜD Automotive GmbH

Recognised Expert
Emmanuel Nucci

pv Sesto San Giovanni (MI),
the 04.07.2008

186621

VCA 09-Jul-08 374007408ITA - XR1200 EK Approval Authority

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Automotive

E N C L O S U R E 1 ***to test report no.*** **374-0074-06-ITA**
Type: **HDXR**
Manufacturer: **Termignoni S.r.l.**

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.
1.0.	header pipes	original parts	-
c1.	rear silencers	two silencers on the right, cylindrical, ∅ 90 mm, total length 519 mm for the top silencer, 484 mm for the bottom one; absorption- reflection- principle with an outlet pipe ∅ 28 mm with covering pipe ∅ 64 mm	Drawing HDXR: SILENCER
c2.	drawing of composition	notice drawing	Drawing HDXR: ASSEMBLY
c3.	reduction	notice drawing	Drawing HDXR: TAPPO

UK Approval Authority
09-Jul-08

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Automotive

E N C L O S U R E 2 ***to test report no.*** **374-0074-08-ITA**
Type: **HDXR**
Manufacturer: **Termignoni S.r.l.**

Field of application

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)	Harley-Davidson Motor Company	Harley-Davidson	XR1200	XR1 (e4*2002/24* 1789*)	LA6	4-stroke	1202	67 / 7000	with cat *)	1.0., c1., c2., c3.

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

UK Approval Authority
09-Jul-08

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Automotive

E N C L O S U R E 3 ***to test report no.*** **374-0074-08-ITA**
Type: **HDXR**
Manufacturer: **Termignoni S.r.l.**

Test results

- Noise and Power Test

					Sound levels driving vehicle in dB(A)					Sound levels stationary vehicle in dB(A)			
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 mea-sured	Non original measured	at km/h	Vehicle type hom.	Original mea-sured	Non original measured	at min^{-1}
1) A*	67 / 7000	68,1 / 7000	-	-	2 / 3	80	81,00	80,50	50	93	94	93	3500

*) test series

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

TERMIGNONI	**INFORMATION DOCUMENT** **N° HDXR/97/24 rev. 00**	**Date: 04/07/2008** **Page 1/2**

Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2006/120/EC)

1.	*Make (trade name of manufacturer)*:	Termignoni
2.	*Type and general commercial description:*	HDXR
3.	*Name and address of manufacturer:*	Termignoni S.rl. via della Rampina, 16 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 appication:*	*see list enclosed*
7.	*Restriction and instructions for installing:*	*notice assembly manual and field of application*

Sachverständiger Prüflabor DIN EN ISO/IEC 17025 TÜV SÜD Automotive GmbH TÜV SÜD

Further details according to directive 97/24/EC, chapter 9, annex III, enclosure 2 A including amendment 2006/120/EC are mentioned in the motorcycle homologation (notice enclosure 2 of the test report).

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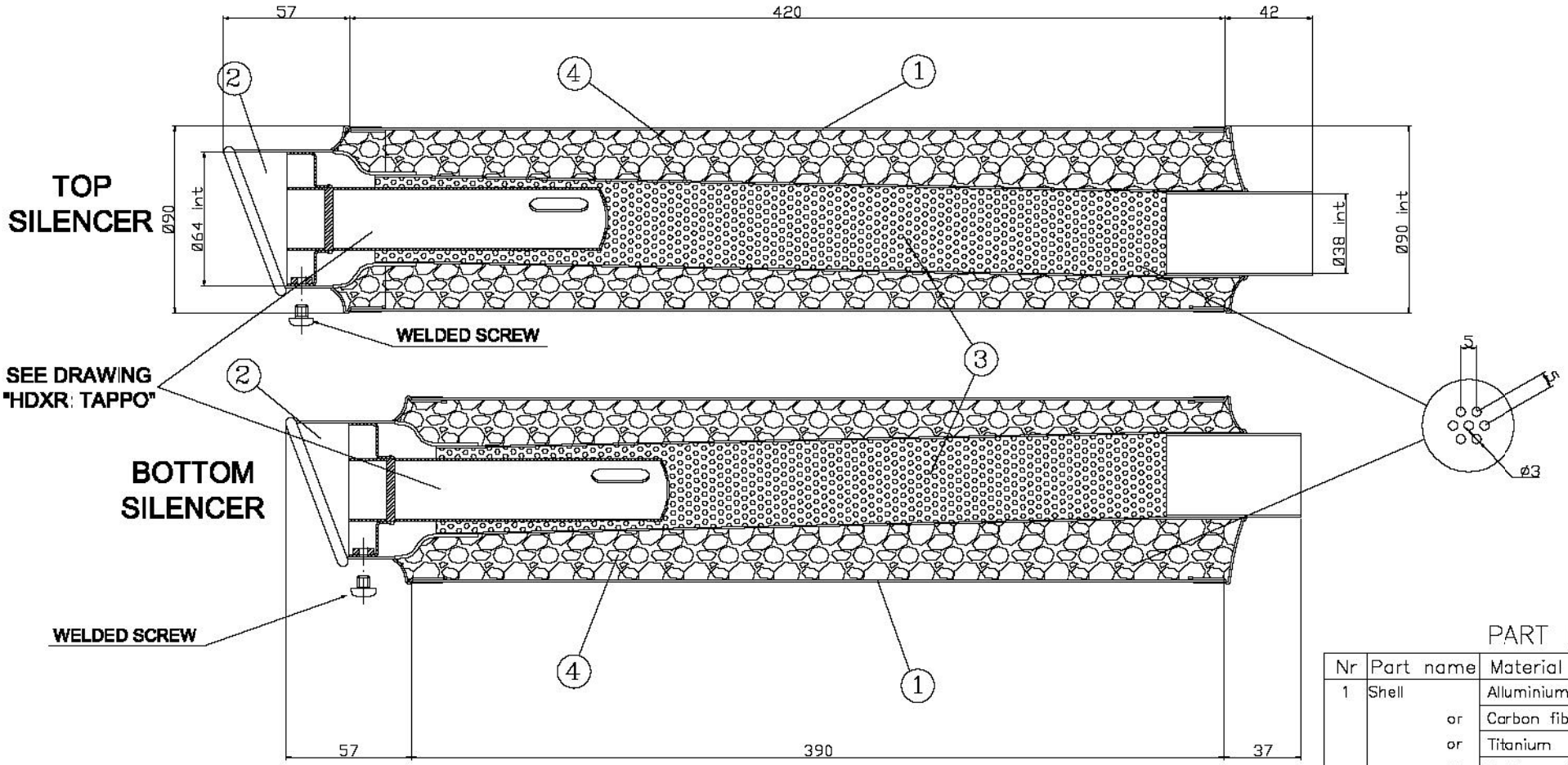
Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2006/120/EC)

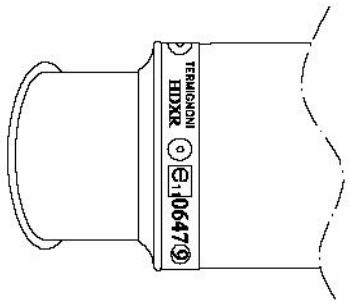
Enclosures:

		drawing no.	*date*
c1.	*Drawing of rear silencer*	HDXR: SILENCER	26/06/2008
c2.	*Drawing of composition*	HDXR: ASSEMBLY	27/06/2008
c3.	*Drawing of reduction*	HDXR: TAPPO	27/06/2008
c4.	*List of vehicles*		
c5.	*Fitting instructions*		

VCA 09-Jul-08 UK Approval Authority

General tolerance: ±1mm





TOP VIEW

UK Approval Authority 09-Jul-08

PART LIST

Nr	Part name	Material	Dimensions	Qt.
1	Shell	Alluminium	Sp2mm x See draw	1x
	or	Carbon fiber	Sp1mm x See draw	1x
	or	Titanium	Sp0.6mm x See drawing	1x
	or	Stainless steel	Sp0.6mm x See drawing	1x
2	Outlet pipe	Stainless steel	SEE DRAWING	1x
	or	Titanium	SEE DRAWING	1x
3	Punched-holes pipe	Stainless steel	ø42x0,8	1x
	or	Titanium	ø42x0,8	1x
4	Sound Deadener	Fiberglass		1x

Scale:	Model: HARLEY DAVIDSON XR 1200 '08 2 sil STR HD03 HDXR e11 0647
Date: 26.06.2008	
Name: P.Pelizza	
Type: HDXR: SILENCER	

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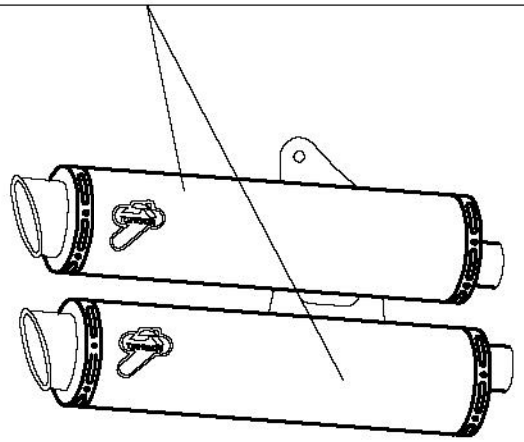
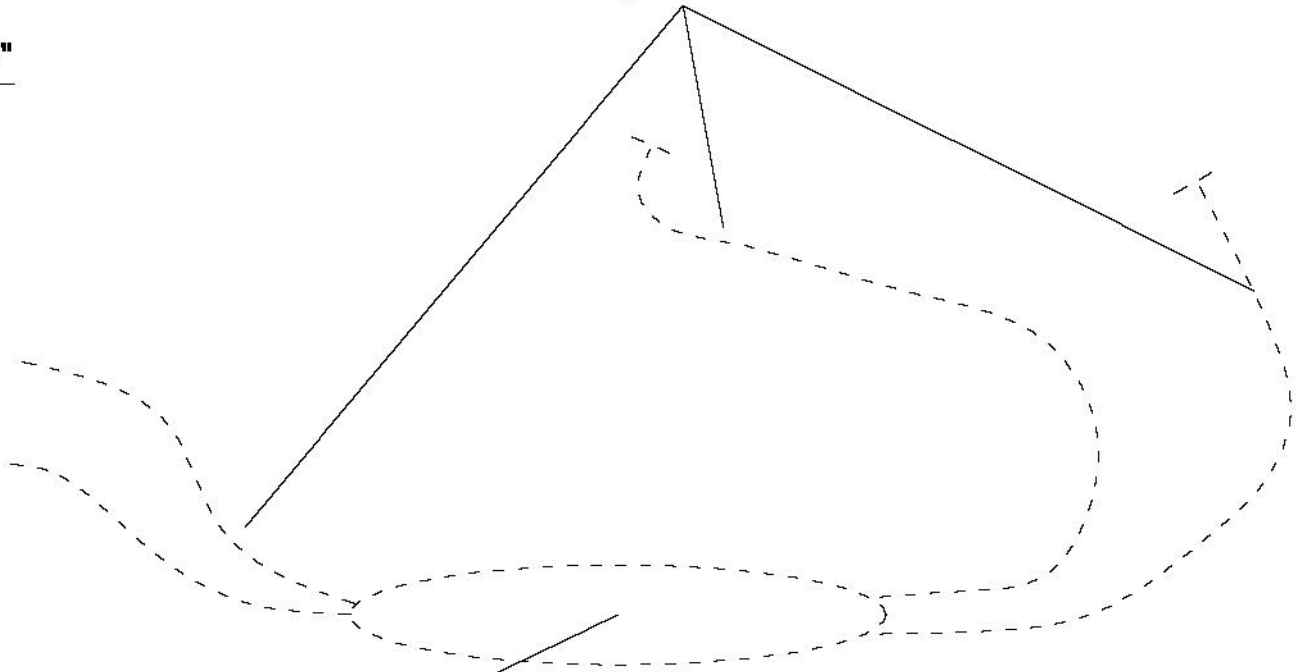
Silencers: see drawing "HDXR: Silencers"



Original collectors



Original catalytic converter

SCALE:		*TYPE:* Harley Davidson XR 1200 2 sil str HD03 HDXR e11 0647 ⑨
DATE:	27.06.08	
NAME:	P.Pelizza	
TYPE:	HDXR: ASSEMBLY	

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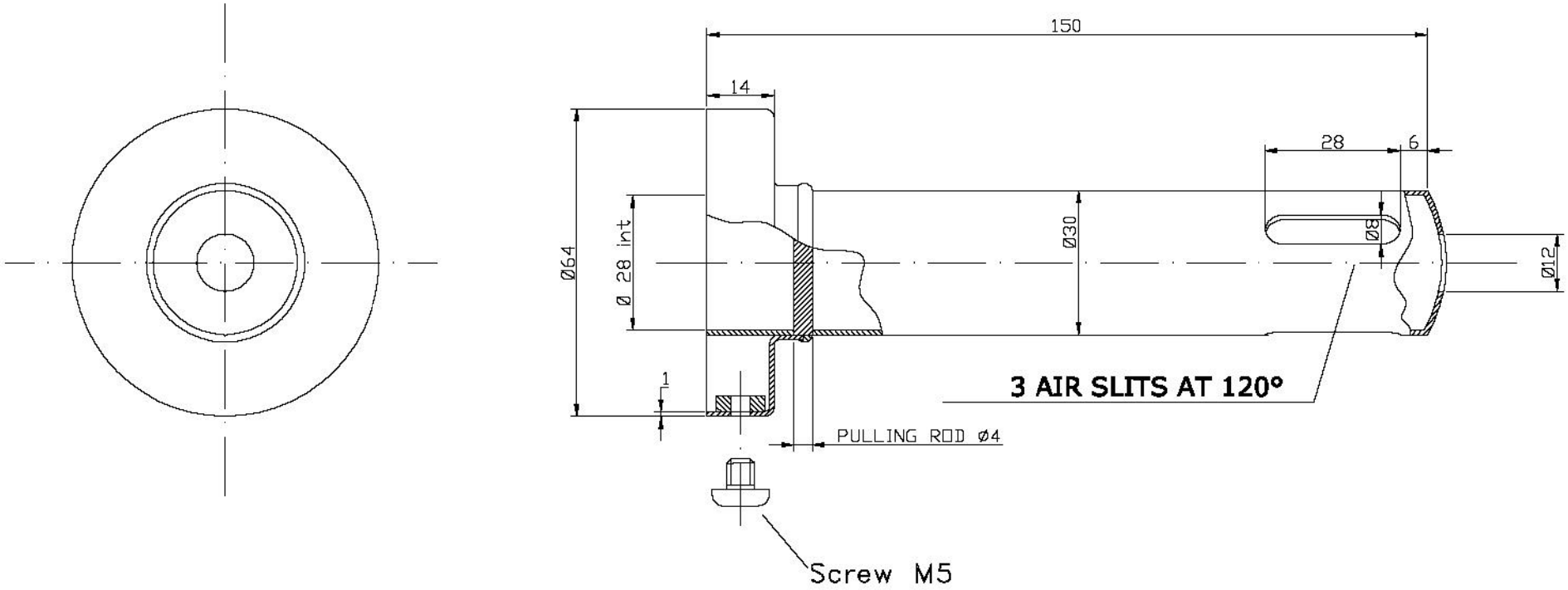
General tolerance: ±1mm

MATERIAL: S.Steel or Titanium



SCALA:	MODEL: HARLEY DAVIDSON XR 1200 2 SIL STR HD03 HDXR e11 0647 ⑨
DATUM: 27.06.08	
NAME: P.PELIZZA	
TYP: HDXR: TAPPO	

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Cod. TERMIGNONI TER247

INFORMATION DOCUMENT N° HDXR/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)	Harley-Davidson Motor Company	Harley-Davidson	XR1200	XR1 (e4*2002/24* 1789*)	LA6	4-stroke	1202	67 / 7000	with cat *)	1.0., c1., c2., c3.

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

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FITTING INSTRUCTIONS

for Termignoni exhaust systems

A. Dismantling the original exhaust system

1. Remove any casing parts impeding clear access.

2. Detach the silencer support(s) and the original silencer from the branch pipe and/or exhaust manifold.

B. Fitting Termignoni silencers

1. Fit the Termignoni silencer(s) to the original branch pipe, or use the Termignoni branch pipe to fit to 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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ISTRUZIONI DI MONTAGGIO

per impianti di scarico Termignoni

A. Smontaggio dell'impianto di scarico originale

1. Rimuovere eventuali parti del rivestimento in modo che non siano d'impaccio.

2. Smontare il/i supporto/i marmitta e la marmitta originale dal tubo di raccordo e/o dal collettore di scarico.

B. Montaggio della marmitta Termignoni

1. Montare la/le marmitta/e Termigoni sul tubo di raccordo originale o utilizzare il tubo di raccordo Termignoni sul collettore di scarico.

2. Fissare la/le marmitta/e con il/i supporto/i in dotazione al veicolo, ma non stringere a fondo le viti ed i bulloni.

3. Disporre l'impianto di scarico in modo tale che anche quando completamente inserito abbia una distanza minima di ca. 5 mm da tutti i componenti del veicolo.

4. Serrare tutti i collegamenti a vite.

5. Effettuare una prova di funzionamento del veicolo, verificare che tutti i collegamenti siano ben fissati, eventualmente stringere ulteriormente.

6. Dopo ca. 100 km controllare nuovamente tutti i collegamenti ed eventualmente stringere le viti ed i bulloni.

ATTENZIONE:
In caso di interventi sull'impianto di scarico dopo una prova di funzionamento, prestare attenzione alla superficie dell'impianto che potrebbe essere molto calda.

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