



Kraftfahrt-Bundesamt

DE-24932 Flensburg

Bauartgenehmigungsbogen

betreffend eine Nicht-Originalauspuffanlage für einen
Typ eines Kraftrads

Component type - approval certificate

in respect of a non-original exhaust system for a type of motorcycle

Prüfbericht Nr. - Report No: **06-00140-CM-GBM, Erw. 02**

des Technischen Dienstes - by technical service:

TÜV SÜD AUTOMOTIVE GMBH
TÜV SÜD Gruppe
DE-85748 Garching

vom - date: **28.03.2007**

Nr. der Bauartgenehmigung: e1*97/24*2005/30/9/III*0569*02
Component type-approval No.:

1. Fabrikmarke der Anlage - Make of exhaust:
AKRAPOVIC Exhaust System Technology
2. Typ der Anlage - Type of exhaust:
M-HR001
3. Name und Anschrift des Herstellers - Name and address of manufacturer:
Akrapovic, d.o.o.
SI-1295 Ivancna Gorica
4. Name und Anschrift des Beauftragten des Herstellers (falls zutreffend):
If applicable, name and address of the manufacturer's authorized representative:
entfällt - not applicable
5. Fabrikmarke(n), Typ(en) und gegebenenfalls Varianten und Versionen des Fahrzeugs (der Fahrzeuge), für die die Anlage bestimmt ist -
Make(s) and Type(s) and any variant(s) or version(s) of the vehicle(s) for which the exhaust system is designed:
siehe Anlage 2 des Prüfberichts -
see enclosure 2 of test report



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Nummer der Genehmigung: e1*97/24*2005/30/9/III*0569*02

Approval No.:

6. Die Anlage wurde zur Prüfung vorgeführt am - Date system submitted for testing:
12.10.2006
7. Die Bauartgenehmigung wird **erweitert**
Component type-approval **extended**
8. Ort - Place: **DE-24932 Flensburg**
9. Datum - Date: **12.04.2007**
10. Unterschrift: **Im Auftrag**
Signature:

(Matthias Kratz)





Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Nummer der Genehmigung: e1*97/24*2005/30/9/III*0569*02

Approval No.:

Anlagen:
Enclosure:

1 Blatt Nebenbestimmungen und Rechtsbehelfsbelehrung
(Collateral clauses and instruction on right to appeal)

1 (Teil-)Beschreibungsbogen Nr. **M-HR001 (2 Blatt)** vom **26.02.2007**
mit Anlagen **(29 Blatt)**
(partial) description sheet No. **M-HR001 (2 sheet/s)** of **26.02.2007**
with enclosures **(29 sheet/s)**

1 Prüfbericht **(7 Blatt)** mit Anlagen **1, 3 + 4 (4 Blatt)**
test report **(7 sheet/s)** with enclosures **1, 3 + 4 (4 sheet/s)**

und – and

X Anlage **2** des Prüfberichts **(1 Blatt)**
enclosure **2** of test report **(1 sheet/s)**

Die mit "**X**" gekennzeichneten Anlagen sind der Benachrichtigung beigelegt.
Die übrigen Anlagen können von der Genehmigungsbehörde angefordert werden.
Enclosures marked by "**X**" are annexed to this communication. The other
enclosures can be claimed at the administrative service.



Kraftfahrt-Bundesamt

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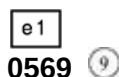
- Anlage -

Nebenbestimmungen und Rechtsbehelfsbelehrung

Nebenbestimmungen

Jede Einrichtung, die dem genehmigten Typ entspricht, ist gemäß der angewendeten Vorschrift zu kennzeichnen.

Das Genehmigungszeichen lautet wie folgt:



Die Einzelerzeugnisse der reihenweisen Fertigung müssen mit den Genehmigungsunterlagen genau übereinstimmen. Änderungen an den Einzelerzeugnissen sind nur mit ausdrücklicher Zustimmung des Kraftfahrt-Bundesamtes gestattet.

Änderungen der Firmenbezeichnung, der Anschrift und der Fertigungsstätten sowie eines bei der Erteilung der Genehmigung benannten Zustellungsbevollmächtigten oder bevollmächtigten Vertreters sind dem Kraftfahrt-Bundesamt unverzüglich mitzuteilen.

Verstöße gegen diese Bestimmungen können zum Widerruf der Genehmigung führen und können überdies strafrechtlich verfolgt werden.

Die Genehmigung erlischt, wenn sie zurückgegeben oder entzogen wird, oder der genehmigte Typ den Rechtsvorschriften nicht mehr entspricht. Der Widerruf kann ausgesprochen werden, wenn die für die Erteilung und den Bestand der Genehmigung geforderten Voraussetzungen nicht mehr bestehen, wenn der Genehmigungsinhaber gegen die mit der Genehmigung verbundenen Pflichten - auch soweit sie sich aus den zu dieser Genehmigung zugeordneten besonderen Auflagen ergeben - verstößt oder wenn sich herausstellt, dass der genehmigte Typ den Erfordernissen der Verkehrssicherheit oder des Umweltschutzes nicht entspricht.

Das Kraftfahrt-Bundesamt kann jederzeit die ordnungsgemäße Ausübung der durch diese Genehmigung verliehenen Befugnisse, insbesondere die genehmigungsgerechte Fertigung, nachprüfen. Es kann zu diesem Zweck nach den Regeln der zugrundeliegenden Vorschriften Proben entnehmen oder entnehmen lassen.

Die mit der Erteilung der Genehmigung verliehenen Befugnisse sind nicht übertragbar. Schutzrechte Dritter werden durch diese Genehmigung nicht berührt.

Rechtsbehelfsbelehrung

Gegen diese Genehmigung kann innerhalb eines Monats nach Bekanntgabe Widerspruch erhoben werden. Der Widerspruch ist beim **Kraftfahrt-Bundesamt, Fördestraße 16, DE-24944 Flensburg**, schriftlich oder zur Niederschrift einzulegen.



Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Nummer der Genehmigung: e1*97/24*2005/30/9/III*0569*02

Approval No.:

- Attachment -

Collateral clauses and instruction on right to appeal

Collateral clauses

All equipment which corresponds to the approved type is to be identified according to the applied regulation.

The approval identification is as follows: - see German version -

The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the Kraftfahrt-Bundesamt.

Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorised representative named when the approval was granted is to be immediately disclosed to the Kraftfahrt-Bundesamt.

Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.

The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

The Kraftfahrt-Bundesamt can at any time check the proper exercise of the conferred authority taken from this approval, in particular the approving standards. For this purpose, samples can be taken or have taken according to the rules of the underlying regulations.

The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

Instruction on right to appeal

This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Kraftfahrt-Bundesamt, Fördestraße 16, DE-24944 Flensburg.**

Techn.Bericht Nr. / *Techn. Report No.:* 06-00140-CM-GBM-02

Hersteller / *Manufacturer:* Akrapovic, Malo Hudo 8a, 1295 Ivancna Gorica, Slovenija

Typ / *Type:* M-HR001

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**PRÜFBERICHT
TEST REPORT
Nr. / no. 06-00140-CM-GBM
Erweiterung / *Extension* 02**

e1*97/24*2003/77/9/III*0569*01
über die Prüfung einer Nicht-Originalauspuffanlage oder
von Einzelteilen hiervon als Technische Einheit für Kraffträder gemäß

der Richtlinie des Rates der Europäischen Gemeinschaften zur Angleichung der
Rechtsvorschriften der Mitgliedstaaten über den zulässigen Geräuschpegel, Abgasverhalten
und Auspuffanlagen von zwei- oder dreirädrigen Kraftfahrzeugen/

*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*

Nr. 97/24/EG in der Fassung 2005/30/EG
nach Kapitel 9, Anhang III

*No. 97/24/EC including the amendment 2005/30/EG
Concerning chapter 9, annex III*

Änderungen / *Changes:* Die Kombination mit genehmigten Katalysatoren kommt hinzu /
Combination with homologated catalytic converters is added

0. Allgemeine Angaben / *General information*

- 0.1. Fabrikmarke / *Make:* Akrapovic Exhaust System Technology
- 0.2. Typ / *Type:* M-HR001
- 0.2.1. Ausführungen / *Variants* unverändert / *without changes*

Techn.Bericht Nr. / *Techn. Report No.:* 06-00140-CM-GBM-02

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- 0.3. Name und Anschrift des Herstellers /
Name and address of manufacturer: Akrapovic
Malo Hudo 8a
1295 Ivancna Gorica
Slovenija
- 0.4. Name und Anschrift des Beauftragten /
Name and address of authorized agent: entfällt / *n.a.*
- 0.5. Nr. des Beschreibungsbogens /
No. of information document: M-HR001
Ausgabedatum / *Date:* 26.02.2007
- 1.0. Klasse der Fahrzeuge, für die die
Anlage bestimmt ist / *Class of the
vehicles the unit is used for:* Kraftrad / *motorcycle*
- 1.1. Beschreibung der Fahrzeuge, für
die die Einrichtung bestimmt ist /
*Description of the vehicles
the unit is used for:* siehe Anlage 2 / *notice enclosure 2*
- 2. Angaben zum Prüfobjekt / Composition of the separate technical unit**
- 2.1. Art der Technischen Einheit / *Kind of technical unit:*

Technische Einheit, unverändert in Verbindung mit genehmigten Katalysatoren und Original Krümmersystem oder Austausch-Krümmersystem /
The technical unit remains the same in combination with homologated catalytic converters and original header system or aftermarket header system.
- 2.2. Ort der Kennzeichnung/
Place of marking: Lasergravur auf Endkappe / Typschild aufgenietet
Engraved by laser / plate fixed with rivets
- 2.3. Zusammenbau Anlage bei der Prüfung/
assembly of the exhaust system for testing
(Teile lfd. Nr. lt. Anl. 1 /
no. of parts, enclosure 1): siehe 3.4 / *notice 3.4*
- 2.4. Lage und Richtung der Auspuffmündung:
Position and direction of the tail pipe: am Fahrzeugende rechts und links nach hinten
at the right and left side at the rear of the vehicle

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3. **Prüfprotokoll / Test report**

Die Prüfungen wurden in 2 Versuchsreihen C und D am
12.10.2006 durchgeführt. /

The tests were carried out in 2 series C and D at 2006/10/12

3. **Prüfprotokoll** (Fortsetzung) / **Test report** (continuation)

Versuchsreihe C / D / Series C / D: (lfd. Nr. / no. 1)

3.1. **Fahrzeug / Vehicle**

- | | | |
|---------|--|-----------------------|
| (0.1) | Fabrikmarke / <i>brand name:</i> | KTM |
| 3.1.1. | (0.2.) Typ / <i>Type:</i> | LC 8 EFI / Super Duke |
| 3.1.2. | (0.5.) Hersteller / <i>Manufacturer</i> | KTM (A) |
| 3.1.3. | Genehmigungs- Nr. /
<i>Homologation no.:</i> | e1*2002/24*0232* |
| 3.1.3.1 | Nachtrag bzw. Erweiterung /
<i>Extension:</i> | 00 |
| 3.1.4. | Fahrzeugidentifikationsnr. /
<i>Vehicle identification no.:</i> | VBKVA 44075M907959 |
| 3.1.5. | Baujahr / <i>Year of manufacture:</i> | 2005 |
| 3.1.6. | km-Stand / <i>Kilometers:</i> | 6234 |
| (2.1) | Masse des fahrber. Fahrzeugs /
<i>Weight of the vehicle:</i> | 195 kg |

3.2. **(3.) Antriebsmaschine / Engine**

- | | | |
|--------|--|--|
| 3.2.1. | (3.0.) Hersteller / <i>Manufacturer:</i> | s. 3.1.2. / <i>notice</i> 3.1.2 |
| | (3.1.) Fabrikmarke / <i>Trade name:</i> | KTM |
| 3.2.2. | (3.1.1) Typ / <i>Type:</i> | 610 |
| 3.2.3. | Hubraum (abgerundet) /
<i>Engine capacity:</i> | 1000 cm ³ |
| 3.2.4. | (3.2.7.1) Höchstleistung /
<i>Rated maximum engine power:</i> | 88 kW bei / <i>at</i> 9000 min ⁻¹ |

Techn.Bericht Nr. / *Techn. Report No.:* 06-00140-CM-GBM-02

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Typ / *Type:* M-HR001

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3. **Prüfprotokoll** (Fortsetzung) / **Test report** (continuation)

3.3. (4.) **Kraftübertragung / Transmission**

(4.1) Systemzeichng. Kraftübertrag. /
Drawing of transmission: siehe Fahrzeuggenehmigung Nr. /
notice vehicle homologation no.
s. 3.1.3.

3.3.1. (4.2) Art der Kraftübertragung /
Kind of transmission: mechanisch / *mechanical*

(4.3) Kupplung (Art) / *Clutch (kind):* Mehrscheiben-Ölbad / *wet multiplate*

(4.4) Schaltgetriebe / *Gearbox*

3.3.2. (4.4.1) Art / *Kind* mechanisch / *mechanical*

(4.4.2) Betätigungsart /
Kind of activity: fußgeschaltet / *foot shifted*

3.3.4. Anzahl der Gänge /
No of gears 6

3.3.5. (4.5.) Übersetzungsverhältnisse /
Transmission ratios:
Primär / sekundär 1,914 / 2,211

(4.6.) Höchstgeschwindigkeit /
Top speed: 240 km/h

(5.2.) Reifen / *Tires:*
vorne / *front* 120/70ZR17M/C(58W)
hinten / *rear* 180/55ZR17M/C(73W)

3.4. Zusammenbau Anlage /
assembly of the exhaust system
(Teile lfd. Nr. lt. Anl. 1 /
no. of parts, enclosure 1): C: 1)2)3a)4a)5a)5b)6a)6b)
D: 1a)2a)3b)4b)5a)5b)6a)6b)

Techn.Bericht Nr. / *Techn. Report No.:* 06-00140-CM-GBM-02

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Typ / *Type:* M-HR001

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3.5. Messung der Leistung/ *Power measurement*

3.5.1. Messung der Leistungskurve mit Nicht-Originalauspuffanlage /

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

Die gemessene Nennleistung und die zugehörige Drehzahl liegen im Toleranzbereich von $\pm 5\%$ im Vergleich zu den mit der Originalauspuffanlage gemessenen Werten.

The tested max. power and the engine speed are in the $\pm 5\%$ tolerance in comparison with the original exhaust system.

3.5.2. Messung der Höchstgeschwindigkeit mit Nicht-Originalauspuffanlage/

Testing of top speed with non-original exhaust system:

Entfällt, da Fahrzeugklasse: Kraftrad

Not applicable, because vehicle class : motorcycle

3.6. Konditionierung / *Conditioning*

durch Druckschwingungen / *by pulsation*

3.7. Messung des Abgasverhaltens / *Pollution measurement*

Messung des Abgasverhaltens mit Austauschkatalysator in Verbindung mit Nicht-Originalauspuffanlage gegen die nach 97/24/ Kap.5 Anh. II je nach Typgenehmigung des Fahrzeugs genannten Grenzwerte.

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.

3.8. Ergebnisse / *Test results*

Die Ergebnisse der Prüfungen hinsichtlich / *The results of*

3.8.1. Geräusche / *Noise testing*

3.8.2. Leistung / *Power measurement*

3.8.3. Höchstgeschwindigkeit / *Top speed*

3.8.4. Abgasverhalten / *Pollution test*

sind der als Anlage 3 und 4 beigefügten Tabellen zu entnehmen / *are attached in the enclosure 3 and 4.*

Aufgrund der Messung mit dem/n o.g. Fahrzeug/en können auch die in Anlage 2 aufgeführten Krafträder die die gleiche Serienkatalysatoren besitzen und gleiche bzw. geringere Motorleistung haben, mit in den Verwendungsbereich aufgenommen werden/

All motorcycles with the same serial catalytic converter 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.

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- 3.8.4. Der beschriebene Austauschkatalysator / Technische Einheit darf an den in der Anlage 2 aufgeführten Kraftfahrzeugen unter den dort genannten Bedingungen verwendet werden. /

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

- 3.8.5. Die allgemeinen Spezifikationen gemäß 97/24/EG Kap.9 Anh. III Abschnitt 3.5.1. wurden überprüft und werden durch den Austauschkatalysator / Technische Einheit erfüllt. /

The general specifications concerning 97/24/EC capt.9 annex III point 3.5.1 were checked and fulfilled by the non original catalytic converter / technical unit

4. Anlagen / Enclosures

Anlage 1, Teile der Nicht-Originalauspuffanlage (Blatt 1)

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

Anlage 2, Verwendungsbereich (Blatt 1)

Enclosure 2, Field of application (Page 1)

Anlage 3, Ergebnis der Prüfungen hinsichtlich Geräusch und Leistung (Blatt 1)

Enclosure 3, Test results according noise and engine power (Page 1)

Anlage 4, Ergebnis der Prüfungen hinsichtlich Abgasverhalten (Blätter 2)

Enclosure 4, Test results according pollution (Pages 2)

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Hersteller / *Manufacturer*: Akrapovic, Malo Hudo 8a, 1295 Ivancna Gorica, Slovenija

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5. Schlussbescheinigung / Summary

Der o.a. Beschreibungsbogen und der darin beschriebene Typ entspricht der genannten Prüfgrundlage 97/24/EC in der Fassung 2005/30/EG Kapitel 9, Anhang III.

Gegen die Erteilung einer EG-Typgenehmigung bestehen keine technischen Bedenken.

Das Prüflaboratorium ist für das o.g. Prüfverfahren akkreditiert von der Anerkennungsstelle des Kraftfahrt-Bundesamtes, Bundesrepublik Deutschland, unter der KBA-Akkreditierungs-Nummer: KBA-01-02.

The named information document and the described type correspond to the Directive 97/24/EC including the amendment 2005/30/EG chapter 9, annex III.

There are no technical objections against granting an EC Type-approval.

The technical service is accredited for the named testing procedure by the Kraftfahrt-Bundesamt, Federal Republic of Germany, by the KBA-Accreditation-certification-number: KBA-01-02.

Dieser Bericht umfasst Blatt 1 bis 7 /
This test report contains the pages 1 to 7

Garching, 28.03.2007
Prüfingenieur / *The Expert*



Dipl.-Ing. (FH) Max Höhler
Prüflabor DIN EN ISO/IEC 17025

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ANLAGE 1
ENCLOSURE 1

zum Prüfbericht Nr. / to test report no.
Typ / Type:
Hersteller / Manufacturer:

06-00140-CM-GBM-02
M-HR001
Akrapovic, Malo Hudo 8a
1295 Ivancna Gorica, Slovenija

Teile der Nicht-Originalauspuffanlage + Originalteile/
Composition of the original exhaust system + original part

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Lfd. Nr. / No.	Einzelteile, Abmessungen in mm / <i>Components parts, dimensions in mm</i>	Abmessungen des Teiles in mm bzw. Originalteil / Ersatzteil / <i>Dimensions of the part in mm or original part / replacement part</i>	Teilenummer bzw. Genehmigungsnummer / <i>Part no. or homologation no.</i>
1)	Krümmerröhre / <i>header pipes</i>	Originalteile / <i>original parts</i>	-
1a)	Krümmerröhre / <i>header pipes</i>	-	H-KTMR(T)16
2)	Sammler / <i>collector</i>	Originalteile / <i>original parts</i>	-
2a)	Sammler / <i>collector</i>	-	C-KTMR(T)16
3a)	Katalysator / <i>catalytic converter</i>	-	P-KAT-008 e1*0647*(5)
3b)	Katalysator / <i>catalytic converter</i>	-	P-KAT-011 e1*0658*(5)
4a)	Y-Rohr / <i>y-pipe</i>	-	L-KTMSO8
4b)	Y-Rohr / <i>y-pipe</i>	-	L-KTMR(T)16
5a)	Katalysator links / <i>catalytic converter left</i>	-	P-KAT-010 e1*0648*(5)
5b)	Katalysator rechts / <i>catalytic converter right</i>	-	P-KAT-010 e1*0648*(5)
6a)	Schalldämpfer links / <i>rear silencer left</i> (Austrittsrohr / <i>outlet pipe</i> Ø 28)	rhombusförmig / <i>rhombic</i> 110 x 140 Länge ohne Endkappen / <i>length without endcaps</i> 340	M-HR001 e1*0569*(9)
6b)	Schalldämpfer rechts / <i>rear silencer right</i> (Austrittsrohr / <i>outlet pipe</i> Ø 28)	rhombusförmig / <i>rhombic</i> 110 x 140 Länge ohne Endkappen / <i>length without endcaps</i> 340	M-HR001 e1*0569*(9)

ANLAGE 2
ENCLOSURE 2

zum Prüfbericht Nr. / to test report no.
Typ / Type:
Hersteller / Manufacturer:

06-00140-CM-GBM-02
M-HR001
Akrapovic, Malo Hudo 8a
1295 Ivancna Gorica, Slovenija

Verwendungsbereich (Fahrzeugdaten) / Field of application

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Lfd. Nr. Fahrzeug	Hersteller /	Fabrikmarke /	Handelsbezeichnung /	Fahrzeugtyp (und Genehmigungsnummer) /	Motortyp /	Art des Motors/	Hubraum in cm ³ /	Nennleistung in kW/min ⁻¹ /	Sonstige bestimmende Merkmale /	Anordnung entspr. Anlage 1 lfd. Nr. /
No. of vehicle	Manufacturer	Trade mark	Commercial description	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)	KTM	KTM	990	KTM LC8 EFI	610	4-Takt /	1000	88/9000	mit Kat.*) / with cat.	1)2)3a)4a)5a)5b)6a)6b)ww. / or 1a)2a)3b)4b)5a)5b)6a)6b)
2)	Sportmotorcycle AG		Superduke / R	(e1*0232*)		4-stroke		72/7000		

*) Der serienmäßige Katalysator wird durch einen Austauschkatalysator ersetzt.
The original catalytic converter is replaced by an aftermarket-catalyst.

ANLAGE 3
ENCLOSURE 3

zum Prüfbericht Nr. / to test report no.
Typ /Type:
Hersteller / Manufacturer:

06-00140-CM-GBM-02
M-HR001
Akrapovic, Malo Hudo 8a
1295 Ivancna Gorica, Slovenija

Ergebnis der Prüfungen hinsichtlich Geräusch und Leistung
Test results according noise and engine power

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Lfd.Nr. Fahr- zeug /	Leistung Serie kW/min ⁻¹	Leistung Austausch kW/min ⁻¹	Vmax Serie km/h	Vmax Aus- tausch km/h	Fahrgeräusche in dB(A) / Sound levels driving vehicle in dB(A)					Standgeräusche in dB(A) / Sound levels stationary vehicle in dB(A)			
					gemes- sen in Gang	Grenz- wert **)	Serie gemes- sen	Austausch gemessen	bei km/h	lt. Fzg. BE	Serie gemes- sen /	Austausch gemessen	bei min ⁻¹
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*	88/9000	86/9000	-	-	2 / 3	80	78	78	50	96	98	96	4500

*) Versuchsreihe / test series

**) Grenzwert der Richtlinienfassung, die bei Erteilung der Fahrzeuggenehmigung Gültigkeit hatte /
Limit value of directive which was valid by vehicle type homologation

**Beschreibungsbogen M-HR001 betreffend die EG-Typgenehmigung als selbständige technische Einheit einer Auspuffvorrichtung für Krafträder (Richtlinie 97/24/EG) /
Information Document M-HR001 relating to EG type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC)**

Blatt / page 1/2

- | | | |
|----|---|--|
| 1. | Fabrikmarke (Firmenname des Herstellers) /
<i>Make (trade name of manufacturer):</i> AKRAPOVIČ Exhaust System Technology | |
| 2. | Typ und allgemeine Handelsbezeichnung (en) /
<i>Type and general commercial description:</i> | M-HR001 |
| 3. | Name und Anschrift des Herstellers / | AKRAPOVIČ Exhaust System Technology
Malo Hudo 8a, 1295 Ivančna Gorica
Slovenija |
| 4. | Name und Anschrift des Beauftragten /
<i>Name and address of deputy:</i> | entfällt / <i>not applicable</i> |
| 5. | Liste der Teile / <i>Parts list:</i> | s. Anlage 1 des Technischen Berichts/
<i>notice enclosure 1 of the test report</i> |
| 6. | Fabrikmarke(n) und Krafttradtyp(en) des Verwendungsbereichs /
<i>Make and motorcycle type of the field of application:</i> | s. Anlage 2 des Technischen Berichts/
<i>notice enclosure 2 of the test report</i> |
| 7. | Einschränkungen und Vorschriften für den Einbau /
<i>Restriction and instructions for installing:</i> | s. Montageanleitung und Verwendungsbereich /
<i>notice assembly manual and field of application</i> |

Die Angaben zu den nach Richtlinie 97/24/EG, Kap. 5, Anh. VII, Anl. 1 sind dem Prüfprotokoll des Technischen Berichts bzw. den Anlagen zu entnehmen. /
All technical details according to directive 97/24/EC, chapter 5, annex VII, enclosure 1 are mentioned in the test report or shown in the attachments.

**Beschreibungsbogen M-HR001 betreffend die EG-Typgenehmigung als selbständige technische Einheit einer Auspuffvorrichtung für Krafträder (Richtlinie 97/24/EG) /
Information Document M-HR001 relating to EG type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC)**

Blatt / page 2/2

Anlage / Attachment

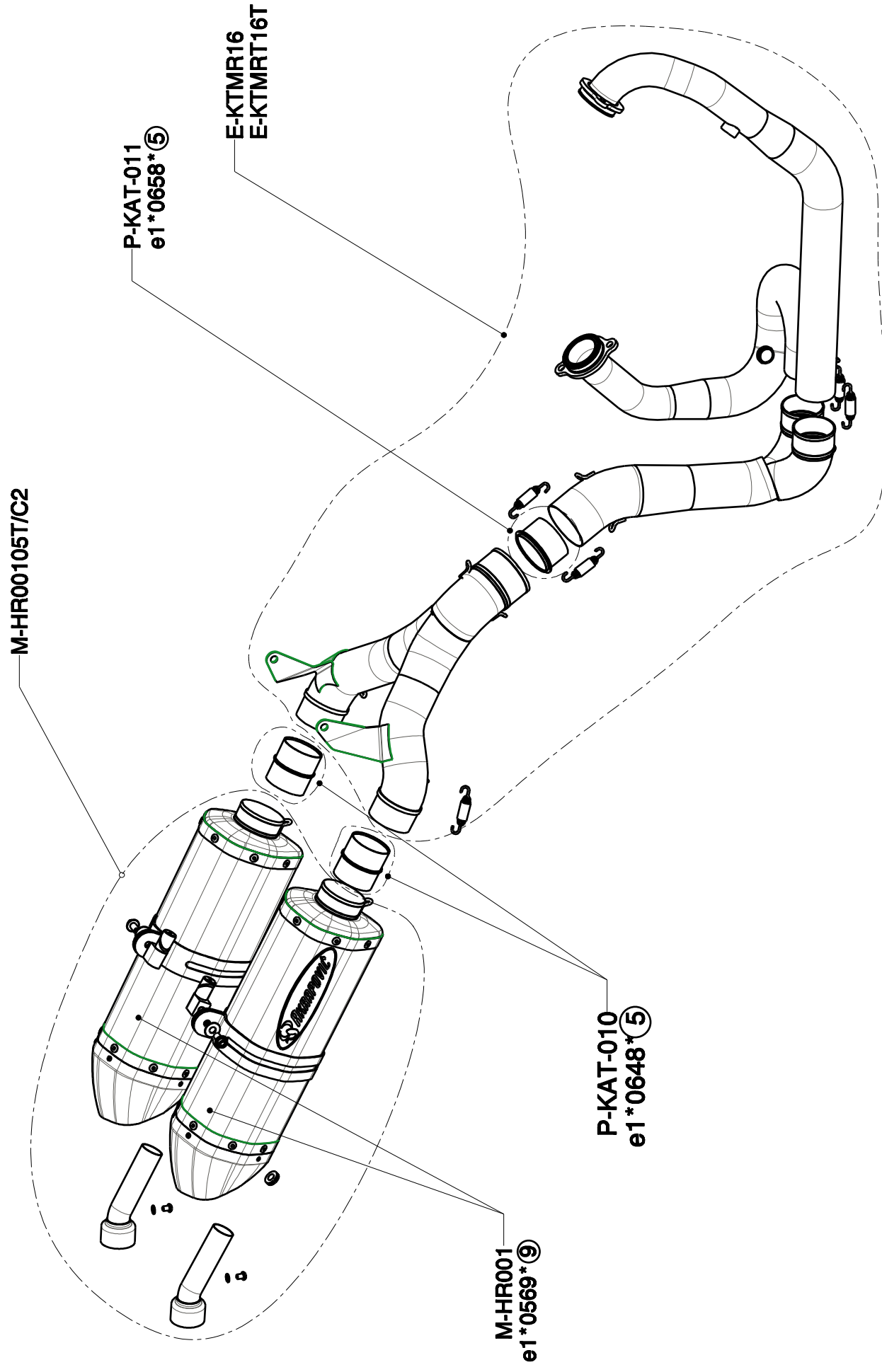
	Zeichnung Nr. / drawing no.	Datum / date
Zusammenstellungszeichnung (4 Blätter) / Assembly drawing (4 pages):	KTM Superduke	-
Montageanleitungen (12 Blätter) / Installation instructions (12 pages):	NAV 139	-
Montageanleitungen (13 Blätter) / Installation instructions (13 pages):	NAV 204	-



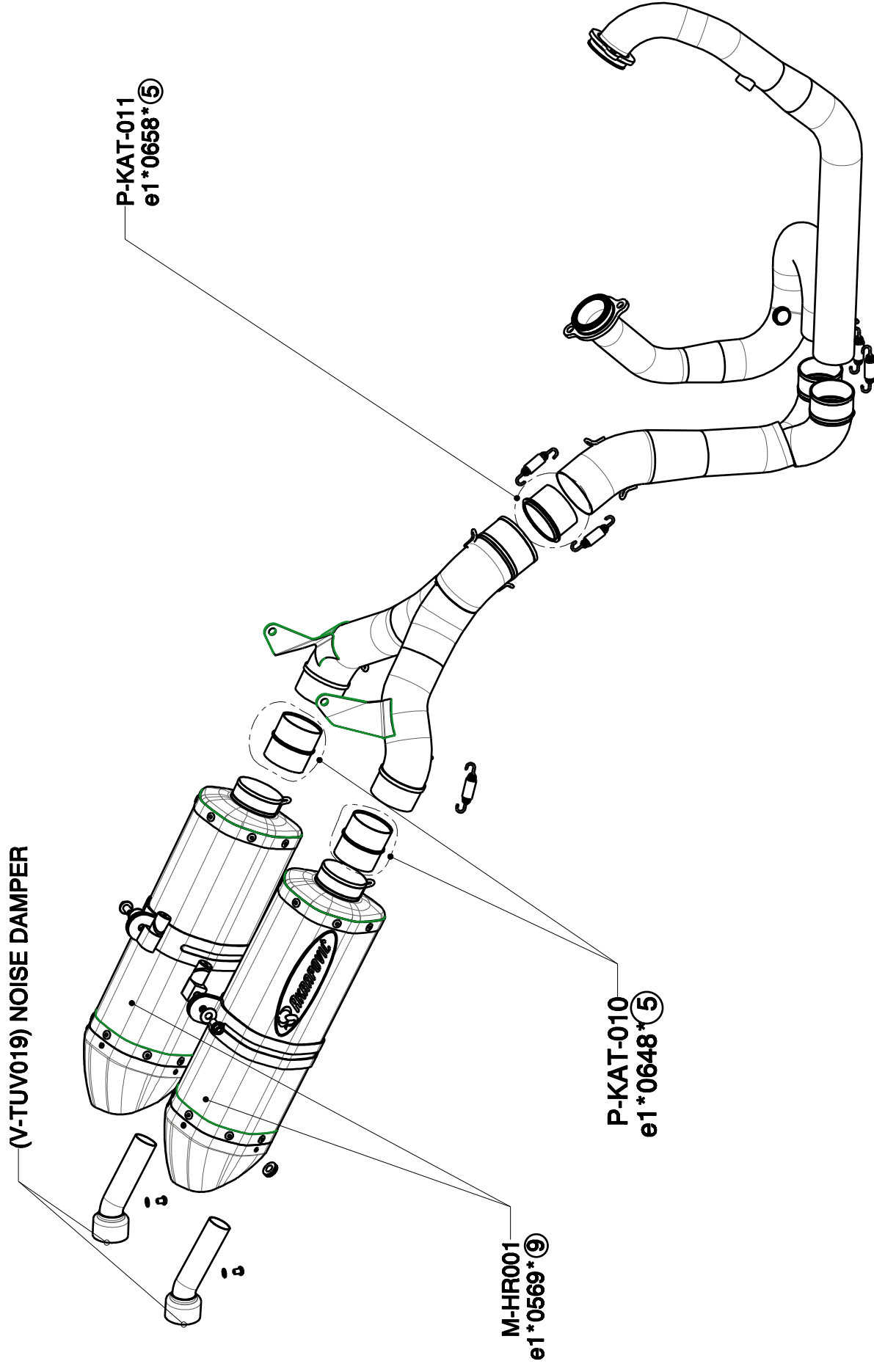
26.02.2007

Datum, Unterschrift /
date, signature

KTM SUPERDUKE 990, Evolution/Racing exhaust system/Model year: 2007/STREET LEGAL (EURO3)
Product code: E-KTMR16 or E-KTMRT16T + M-HR00105T/C/2

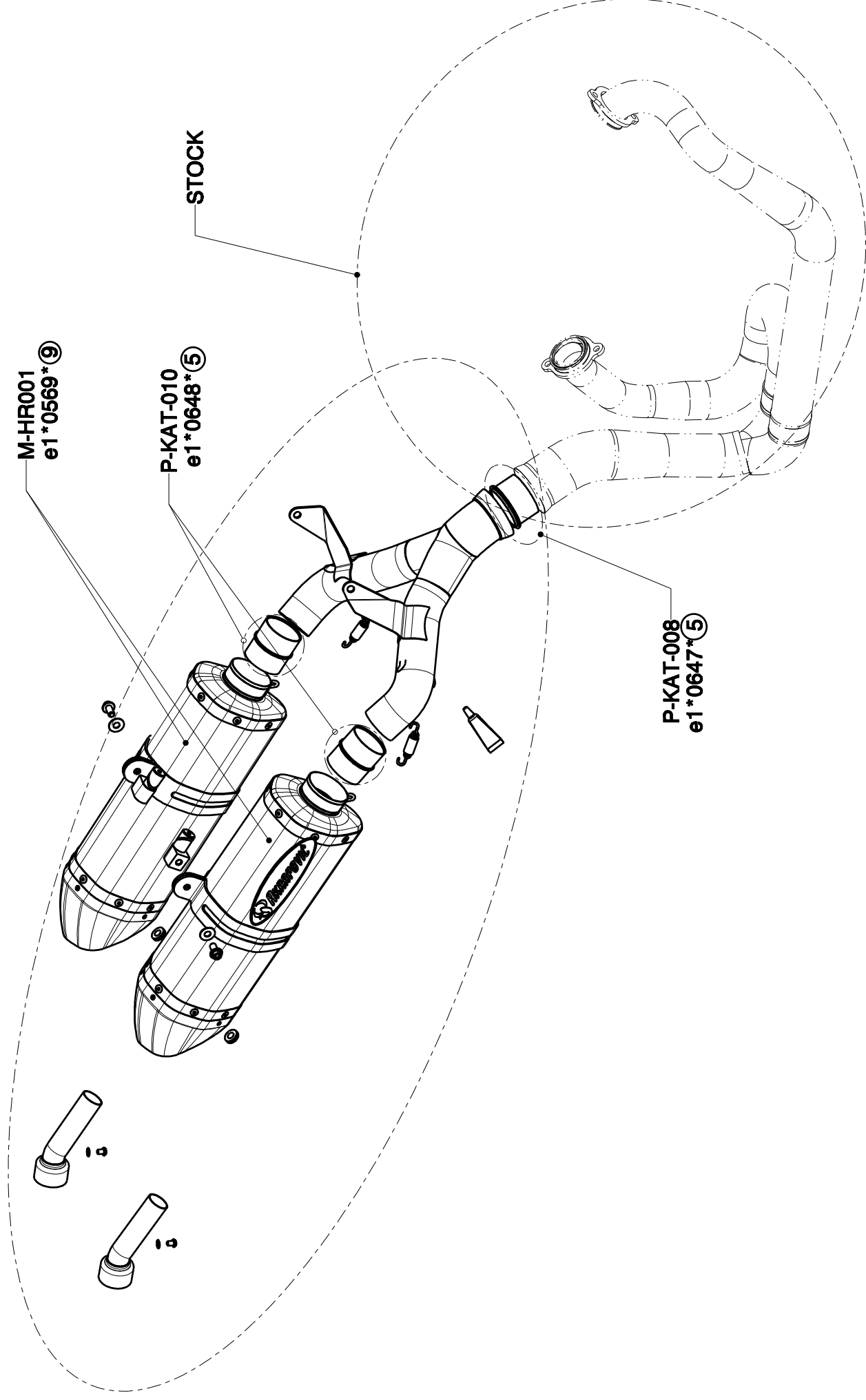


KTM SUPERDUKE 990, Evolution/Racing exhaust system/Model year: 2007/STREET LEGAL (EURO3)
Product code: E-KTMR16 or E-KTMRT16T + M-HR00105T/C/2



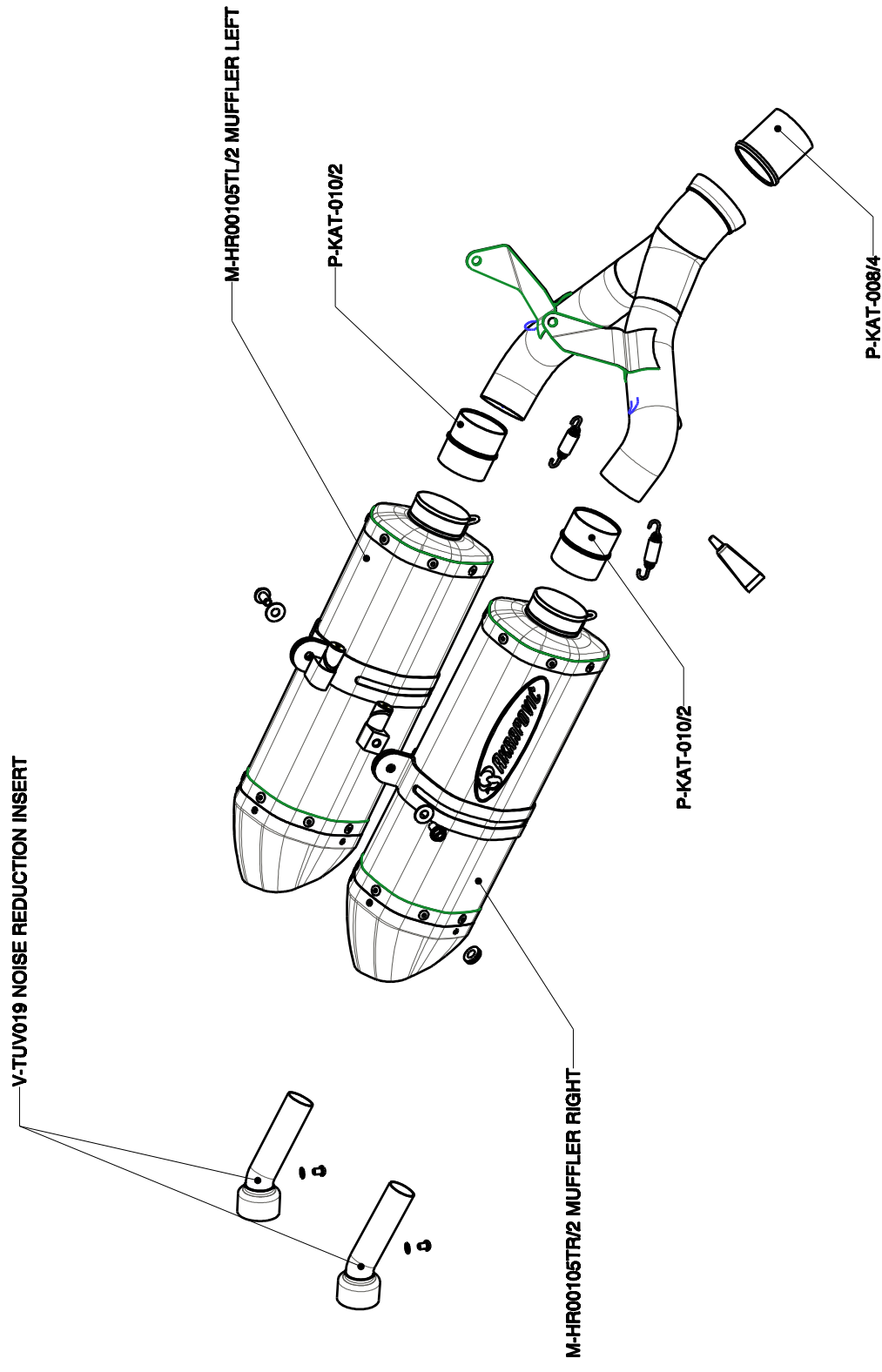
KTM 990 SD, Slip-on exhaust system/Model year:2007/ STREET LEGAL

Product code: S-KTMSO10-HRT



KTM SUPERDUKE 990 , Slip-on exhaust system/Model year:2007/ STREET LEGAL (EURO 3)

Product code:S-KTMSO10-HRT



Installation instructions:

AKRAPOVIC SLIP-ON & SLIP-ON STREET LEGAL EXHAUST SYSTEM for the KTM 990 SUPERDUKE (2005-)

Congratulations on purchasing an Akrapovic exhaust system. Please read these installation instructions carefully. If you have any trouble installing the system please contact your authorized dealer!

IMPORTANT INFORMATION

Exclusion of Certain Liability

1. The manufacturer, importer or dealer shall not be liable for any incidental damage including personal injury or any other damages caused by improper installation or operation of the Akrapovic exhaust system. When installing the Akrapovic exhaust system be careful that the exhaust system does not touch other parts sensitive to high temperature.
2. Akrapovic makes no representation or warranties with regard to damage caused by the improper installation, use and maintenance of the Akrapovic exhaust system. The warranty is limited to defects recognized by our technical department and to normal use, and excludes items subject to normal wear (gaskets and damping wool). The guarantee is void in case of accident, modification, improper or competition use.
3. Do not attempt to install the Akrapovic exhaust system on a motorcycle for which it was not made or tested by Akrapovic.
4. When the exhaust system gets very hot during operation, be careful not to burn yourself on the exhaust system or parts which are in direct contact with it, even when the motor is not running. Also protect other people, especially children, from the injuries mentioned above.
5. In some cases Akrapovic exhaust system kits contain chemical products (ceramic anti-seizing grease; bolt sealant). Handle with care, do not inhale or swallow. Avoid excessive contact with skin, eyes or mucous membranes. Keep out of reach of children.
6. Technical specifications of Akrapovic exhaust systems and related products subject to change without notice.

Trademarks

The Akrapovic Exhaust System Technology logo is a registered trademark of Akrapovic d.o.o.

Akrapovic website

Information about Akrapovic exhaust systems and related products is available on the Akrapovic website at:
<http://www.akrapovic-exhaust.com/>

Copyright

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Symbols

The following symbols are used throughout these installation instructions:

! CAUTION OR WARNING

 INSTALLATION TIP

INSTALLATION INSTRUCTIONS

 BEFORE INSTALLING CHECK SCHEMATIC OF THE EXHAUST SYSTEM!

! IF ANY ITEMS IN THE AKRAPOVIC EXHAUST SYSTEM PACKAGE ARE MISSING PLEASE CONTACT YOUR AUTHORIZED DEALER. KEEP THE SCHEMATIC FOR FUTURE REFERENCE.

! THESE INSTALLATION INSTRUCTIONS MUST BE READ CAREFULLY IN ORDER TO ENSURE PROPER

INSTALLATION AND OPERATION OF THE AKRAPOVIC EXHAUST SYSTEM.



THE EXHAUST SYSTEM CAN BE EXTREMELY HOT. ALLOW THE MOTORCYCLE TO COOL DOWN BEFORE BEGINNING INSTALLATION.



WE ADVISE YOU TO LEAVE INSTALLATION TO A QUALIFIED SERVICEMAN. IMPROPER INSTALLATION MAY RESULT IN A SHORTER LIFETIME OF THE EXHAUST SYSTEM AND/OR DAMAGE TO THE MOTORCYCLE.

REMOVAL OF STOCK EXHAUST SYSTEM

1. put the motorcycle on a side stand, we recommend a racing stand
2. unlock and remove the seat (**Figure 1**)
3. unscrew the bolts from the rear side cowlings and remove the cowlings (**Figure 2, 3, 4**)
4. unscrew the bolt from the muffler hanging bracket; repeat the process for the other muffler (**Figure 5**)
5. unscrew the bolt from the link pipe metal clamp (muffler – link pipe connection) (**Figure 6**) and loosen the metal clamp (**Figure 7**)
6. remove both mufflers (**Figure 8**)
7. remove both rubber dampers from rear chassis tubes (**Figure 9**)

INSTALLATION OF THE AKRAPOVIC SLIP-ON EXHAUST SYSTEM

installing the link pipe:

1. **for 2007 (EURO3) model only:** insert the exhaust catalyst into the outlet of the stock collector (**Figure 9a, 9b**)
2. correctly position and install the Akrapovic Y link pipe (**Figure 10**)
3. **for 2007 (EURO3) model only:** insert the exhaust catalysts into the outlets of the link pipe (**Figure 10a, 10b**)
4. tighten slightly the bolt of the link pipe chassis hanging bracket; repeat the process for the other side link pipe chassis hanging bracket (**Figure 11**)
5. replace the stock link pipe metal clamp (**Figure 12**)

installing the mufflers (round & hexagonal shaped):

1. **only for round shaped muffler:** correctly position the metal clamp and slide it onto the muffler; use Akrapovic copper paste (black tube) (**Figure 13, 14**)
2. **only for round shaped muffler:** correctly position the carbon-fiber clamp and slide it onto the muffler - bear in mind the left offset for the right muffler and right offset for the left muffler of the carbon-fiber clamp viewed from the rear (**Figure 15**). **WARNING:** open the clamp to slightly wider than the diameter of the outer sleeve of the muffler – do not scrape it along the muffler outer sleeve!
3. **only for round shaped muffler:** correctly install bolts onto the **optional** Akrapovic carbon-fiber heat shields. Bear in mind the correct position of the temperature washers (2x for each bolt, on the both sides of the carbon-fiber heat shield) (**Figure 16, 17**)
4. **only for round shaped muffler:** correctly install the heat shields onto the mufflers, before tightening use Akrapovic bolt sealant (**Figure 18, 19, 20**)
5. correctly install muffler metal chassis hanging bracket into rear chassis tube, use Akrapovic bolt sealant (**Figure 21, 22, 23, 24**); repeat the process for the other muffler
6. position the mufflers correctly and slide them onto the outlet sides of the Akrapovic Y link pipe (**Figure 25, 25a**)
7. attach the springs at the Akrapovic muffler - Akrapovic link pipe joints (**Figure 26, 26a**)
8. **only for round shaped muffler:** tighten the metal clamps at the Akrapovic muffler - Akrapovic link pipe joints (**Figure 27**)
9. **only for hexagonal shaped muffler:** correctly position the carbon-fiber clamp and slide it onto the muffler - bear in mind the left offset for the right muffler and right offset for the left muffler of the carbon-fiber clamp viewed from the rear (**Figure 28**). **WARNING:** open the clamp to slightly wider than the diameter of the outer sleeve of the muffler – do not scrape it along the muffler outer sleeve!
10. tighten the muffler carbon-fiber clamps onto the Akrapovic metal chassis hanging brackets on the frame (**Figure 29, 29a**)
6. tighten fully the bolt of the link pipe chassis hanging bracket; repeat the process for the other side link pipe chassis hanging bracket (**Figure 30**)
7. tighten fully the stock link pipe metal clamp (**Figure 31**)

final installation:

1. tighten the bolts on all of the brackets and clamps to which the exhaust system is attached
2. replace the rear side cowlings (**Figure 32, 33, 34**)
3. make sure the mufflers are not touching other parts of the motorcycle
4. reattach the seat
5. clean grease spots:
 - a. muffler – titanium outer sleeve: use a soft cloth sprayed with a multi-purpose spray lubricant (WD-40 or equivalent)
 - b. muffler – carbon-fiber outer sleeve: use a soft dry cloth
 - c. stainless steel link pipe: use a soft cloth sprayed with a contact cleaner, then wipe with a soft dry clothCleaning will prevent spots from burning onto the surface. Do not use aggressive chemical cleaners, because they can damage the sticker.
6. position of the installed Akrapovic Slip-on system (**Figure 35, 35a**)

Check the operation of the brakes and suspension. Make sure all the bolts are sufficiently tightened. In case the exhaust system touches the cowlings or other parts repeat the adjustment of the exhaust system or contact your authorized dealer.

! IT IS NORMAL IF WHITE SMOKE COMES OUT OF THE MUFFLER ON FIRST OPERATION.

! DO NOT STAND BEHIND THE MUFFLER ON FIRST OPERATION.

! DO NOT USE AUTOMOTIVE WHEEL CLEANERS OR ANY CLEANING PRODUCTS WHICH CONTAIN ACIDIC ADDITIVES TO CLEAN AKRAPOVIC EXHAUST SYSTEMS.

MAINTENANCE OF THE AKRAPOVIC EXHAUST SYSTEM

1. Clean the titanium muffler outer sleeve with a multi-purpose spray lubricant (WD-40 or equivalent) and carbon fiber outer sleeve with soft and dry cloth. Do not use aggressive chemical cleaners, because they can damage the sticker. A change in the color of the exhaust system is normal due to the high temperatures.
2. The wearing out of the muffler silencing material depends on the type of the motor and riding style. Contact your dealer/serviceman if visible changes appear on muffler's outer sleeve or the noise level is increased.
3. Periodically ensure that all the bolts and springs are sufficiently tight.

Photos:



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

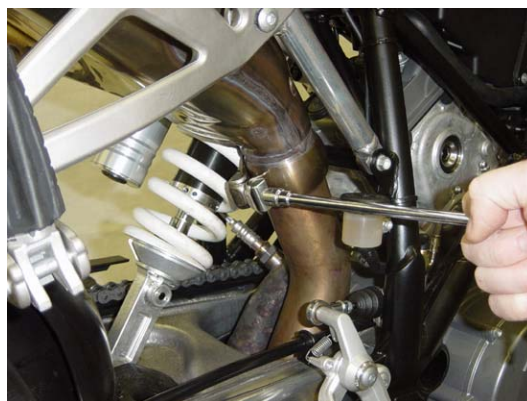


Figure 6



Figure 7



Figure 8



Figure 9



Figure 9a



Figure 9b



Figure 10



Figure 10a



Figure 10b

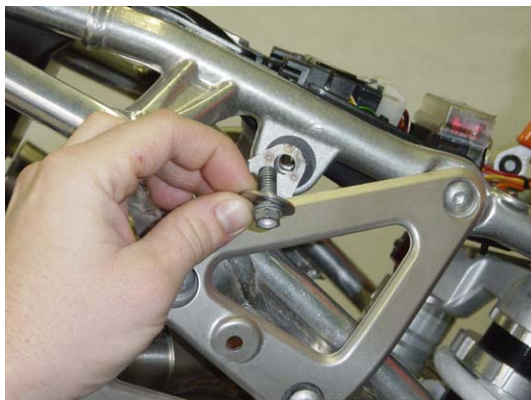


Figure 11



Figure 12



Figure 13



Figure 14



Figure 15

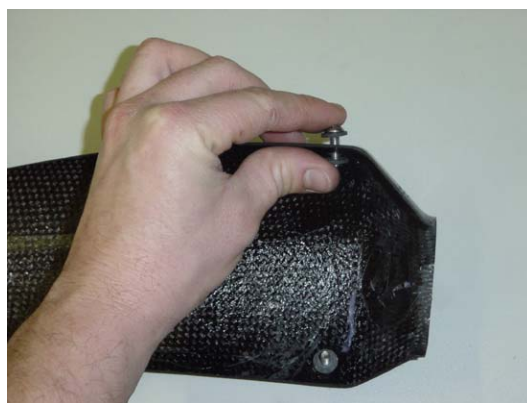


Figure 16



Figure 17



Figure 18



Figure 19



Figure 20



Figure 21



Figure 22



Figure 23



Figure 24



Figure 25



Figure 25a



Figure 26



Figure 26a



Figure 27



Figure 28

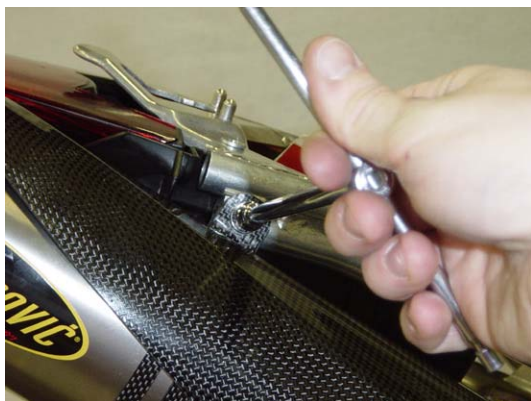


Figure 29



Figure 29a



Figure 30



Figure 31



Figure 32



Figure 33



Figure 34

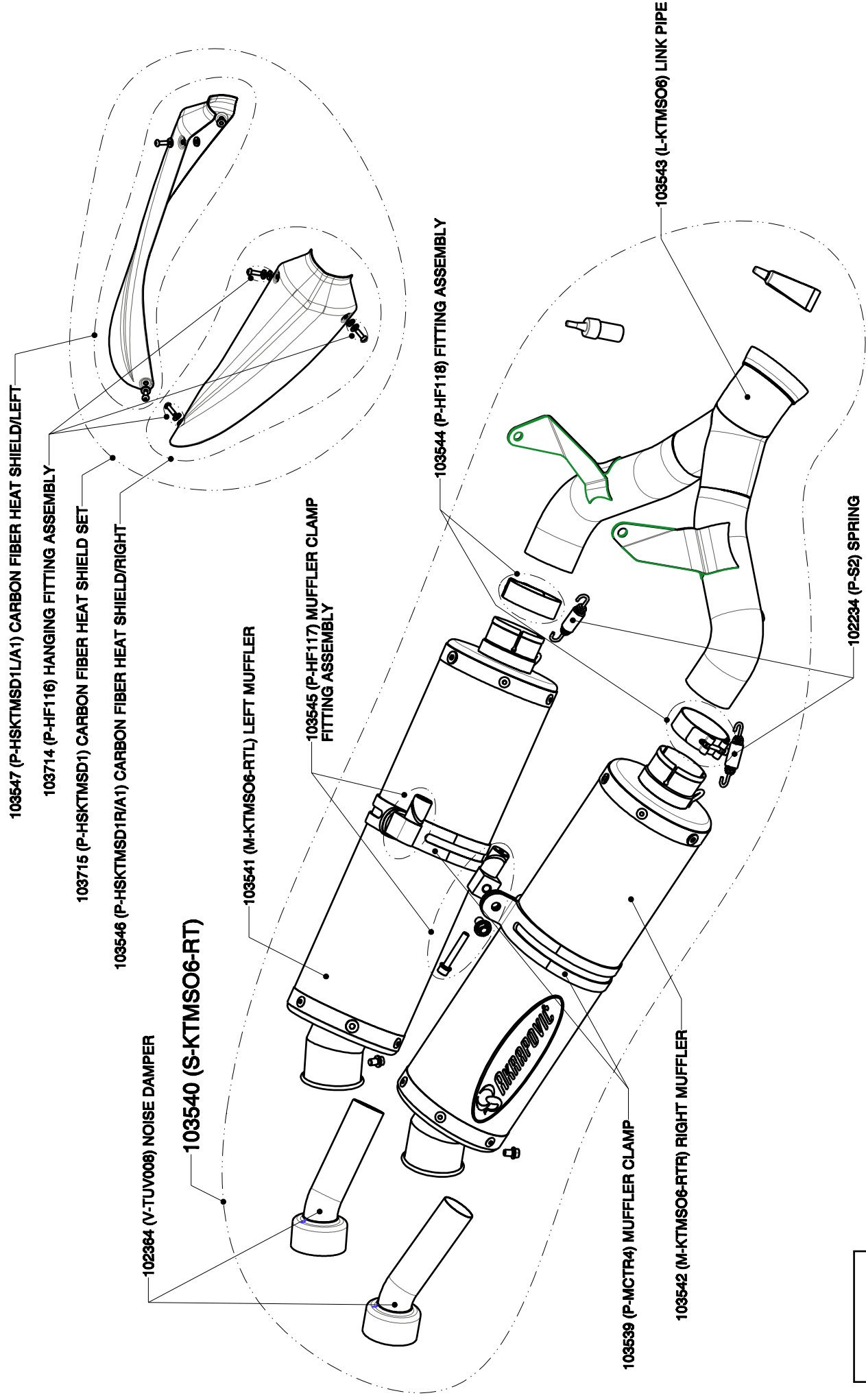


Figure 35



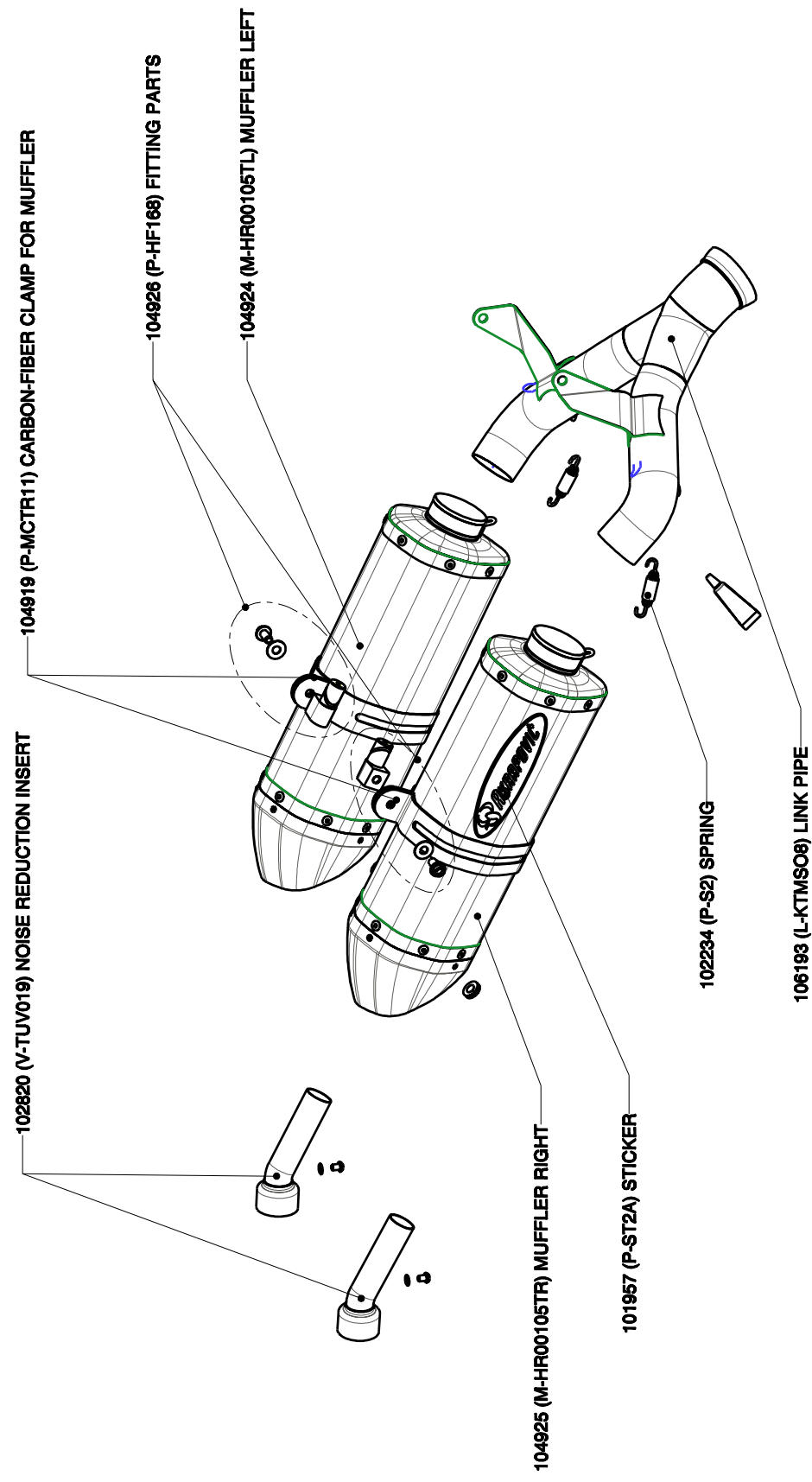
Figure 35a

KTM 990 Superduke, Slip-on exhaust system, model year: 2005
Product code: 103540 (S-KTMSO6-RT)



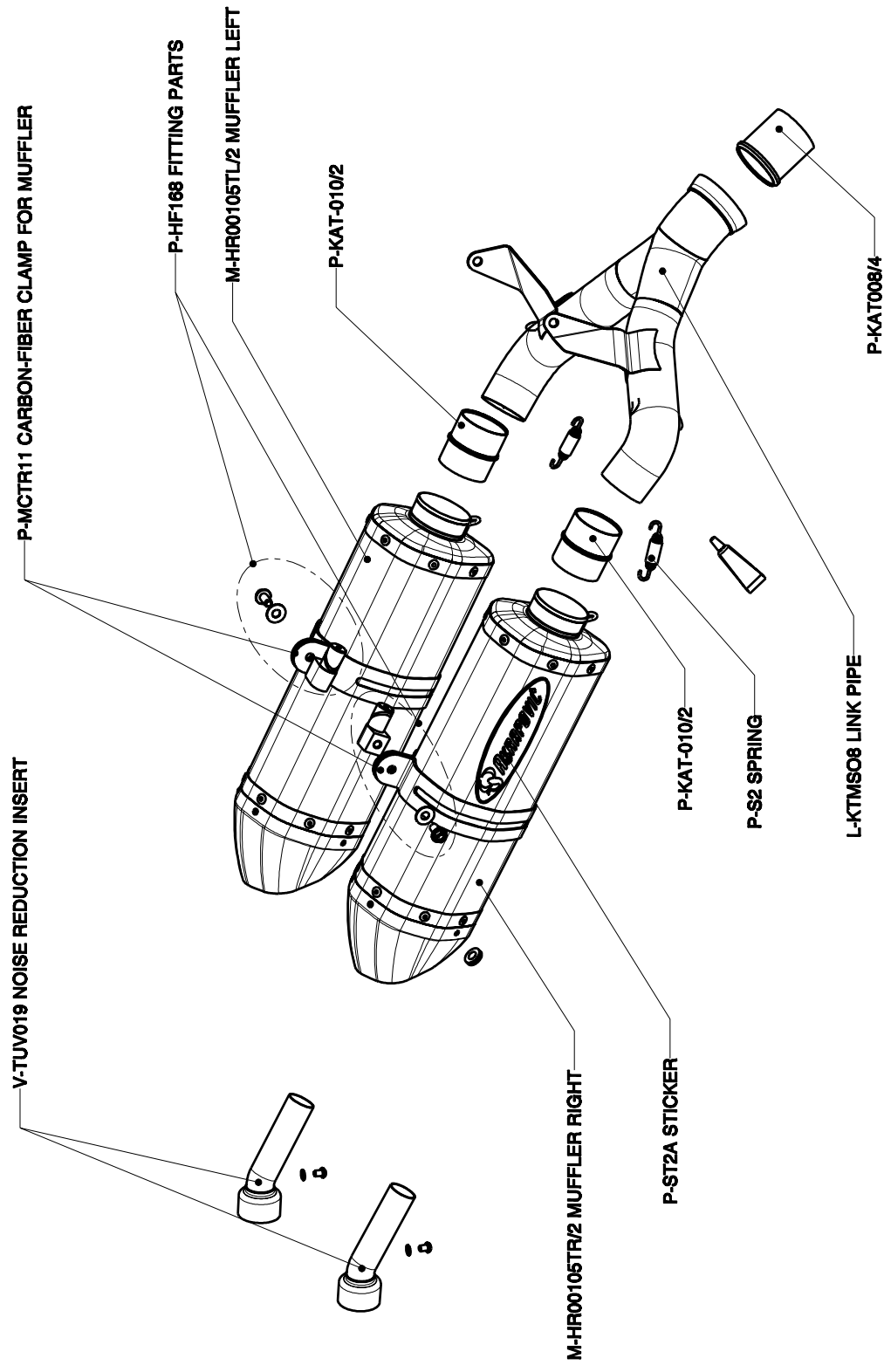
KTM 990 SD, Slip-on exhaust system/Model year:2005-2006/ STREET LEGAL

Product code: 106194 (S-KTMSO8-HRT)



KTM SUPERDUKE 990 , Slip-on exhaust system/Model year:2007/ STREET LEGAL (EURO 3)

Product code:S-KTMSO10-HRT



Installation instructions:

AKRAPOVIC RACING & EVOLUTION STREET LEGAL EXHAUST SYSTEM for the KTM 990 SUPERDUKE (2005-)

Congratulations on purchasing an Akrapovic exhaust system. Please read these installation instructions carefully. If you have any trouble installing the system please contact your authorized dealer!

IMPORTANT INFORMATION

Exclusion of Certain Liability

1. The manufacturer, importer or dealer shall not be liable for any incidental damage including personal injury or any other damages caused by improper installation or operation of the Akrapovic exhaust system. When installing the Akrapovic exhaust system be careful that the exhaust system does not touch other parts sensitive to high temperature.
2. Akrapovic makes no representation or warranties with regard to damage caused by the improper installation, use and maintenance of the Akrapovic exhaust system. The warranty is limited to defects recognized by our technical department and to normal use, and excludes items subject to normal wear (gaskets and damping wool). The guarantee is void in case of accident, modification, improper or competition use.
3. Do not attempt to install the Akrapovic exhaust system on a motorcycle for which it was not made or tested by Akrapovic.
4. When the exhaust system gets very hot during operation, be careful not to burn yourself on the exhaust system or parts which are in direct contact with it, even when the motor is not running. Also protect other people, especially children, from the injuries mentioned above.
5. In some cases Akrapovic exhaust system kits contain chemical products (ceramic anti-seizing grease; bolt sealant). Handle with care, do not inhale or swallow. Avoid excessive contact with skin, eyes or mucous membranes. Keep out of reach of children.
6. Technical specifications of Akrapovic exhaust systems and related products subject to change without notice.

Trademarks

The Akrapovic Exhaust System Technology logo is a registered trademark of Akrapovic d.o.o.

Akrapovic website

Information about Akrapovic exhaust systems and related products is available on the Akrapovic website at:
<http://www.akrapovic-exhaust.com/>

Copyright

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Symbols

The following symbols are used throughout these installation instructions:

! CAUTION OR WARNING

 INSTALLATION TIP

INSTALLATION INSTRUCTIONS



BEFORE INSTALLING CHECK SCHEMATIC OF THE EXHAUST SYSTEM!



IF ANY ITEMS IN THE AKRAPOVIC EXHAUST SYSTEM PACKAGE ARE MISSING PLEASE CONTACT YOUR AUTHORIZED DEALER. KEEP THE SCHEMATIC FOR FUTURE REFERENCE.



THESE INSTALLATION INSTRUCTIONS MUST BE READ CAREFULLY IN ORDER TO ENSURE PROPER INSTALLATION AND OPERATION OF THE AKRAPOVIC EXHAUST SYSTEM.



THE EXHAUST SYSTEM CAN BE EXTREMELY HOT. ALLOW THE MOTORCYCLE TO COOL DOWN BEFORE BEGINNING INSTALLATION.



WE ADVISE YOU TO LEAVE INSTALLATION TO A QUALIFIED SERVICEMAN. IMPROPER INSTALLATION MAY RESULT IN A SHORTER LIFETIME OF THE EXHAUST SYSTEM AND/OR DAMAGE TO THE MOTORCYCLE.

REMOVAL OF STOCK EXHAUST SYSTEM

1. put the motorcycle on a side stand, we recommend a racing stand
2. unlock and remove the seat (**Figure 1, 2**)
3. unscrew the bolts from the rear side cowlings and remove the cowlings (**Figure 3, 4, 5**)
4. unscrew the bolt from the link pipe metal clamp (muffler – link pipe connection) (**Figure 6**) and loosen the metal clamp (**Figure 7**)
5. unscrew the bolt from the muffler hanging bracket; repeat the process on the other side of the motorcycle (**Figure 8**)
6. remove the muffler (**Figure 9**)
7. unscrew the bolts and remove the front spoiler; make sure not to damage the cooling fins (**Figure 10, 11, 12**)
8. unscrew both lambda sensors (**Figure 13, 14**)
9. unscrew the bolt from the rear header tube metal clamp (header tube – collector connection) and loosen the metal clamp (**Figure 15**)
10. unscrew the bolts from the front header tube flange and remove the header tube together with the collector; make sure not to damage the cooling fins (**Figure 16, 17**)
11. unscrew the bolts from the rear header tube flange and remove the header tube (**Figure 18, 19**)

INSTALLATION OF THE AKRAPOVIC RACING OR EVOLUTION EXHAUST SYSTEM

installing the header tubes:

1. position correctly the front header tube and the flange
2. insert the front header tube properly and tighten the flange; make sure not to damage the cooling fins (**Figure 20, 21**)
3. attach the front lambda sensor (**Figure 22**)
4. make sure the front header tube is not touching the engine, other tubes, electrical installations etc.
5. position correctly the rear header tube and the flange
6. insert the rear header tube properly and tighten the flange (**Figure 23**)
7. attach the rear lambda sensor (**Figure 24**)
8. make sure the rear header tube is not touching the engine, other tubes, electrical installations etc.

installing the independent collector:

1. **for Evolution exhaust only:** coat the interior side of the input of the titanium collector with Akrapovic ceramic anti-seizing grease (white tube)
2. make sure the collector is correctly oriented (**Figure 25**)
3. slide the collector onto the header tubes
4. attach the springs (**Figure 26**)
5. **for 2007 (EURO3) model only:** insert the exhaust catalyst into the outlet of the collector (**Figure 26a, 26b**)
6. make sure the collector is not touching the frame and other parts

installing the link pipe:

1. **for Evolution exhaust only:** coat the interior side of the input of the titanium link pipe with Akrapovic ceramic anti-seizing grease (white tube)
2. correctly position and install the Akrapovic Y link pipe (**Figure 27**)
3. attach the spring (**Figure 28**)
4. tighten slightly the bolts of the link pipe chassis hanging brackets (**Figure 29**)
5. **for 2007 (EURO3) model only:** insert the exhaust catalysts into the outlets of the link pipe (**Figure 29a, 29b**)

installing the mufflers:

1. remove both rubber dampers from rear chassis tubes (**Figure 30**)
2. correctly install muffler metal chassis hanging bracket into rear chassis tube, use Akrapovic bolt sealant (**Figure 31, 32, 33**); repeat the process for the other muffler
3. **for Evolution exhaust only:** coat the interior side of the input of the muffler inlet cap with Akrapovic ceramic anti-seizing grease (white tube)
4. position the mufflers correctly and slide them onto the outlet sides of the Akrapovic Y link pipe (**Figure 34**)
5. attach the springs at the Akrapovic muffler - Akrapovic link pipe joints (**Figure 35**)
6. correctly position the carbon-fiber clamp and slide it onto the muffler - bear in mind the left offset for the right muffler and right offset for the left muffler of the carbon-fiber clamp viewed from the rear (**Figure 36**). **WARNING:** open the clamp to slightly wider than the diameter of the outer sleeve of the muffler – do not scrape it along the muffler outer sleeve!
7. tighten the muffler carbon-fiber clamps onto the Akrapovic metal chassis hanging brackets on the frame (**Figure 37, 38**)

final installation:

1. tighten fully the bolts of the link pipe chassis hanging brackets and header tube flanges
2. make sure the mufflers are not touching other parts of the motorcycle
3. clean grease spots:
 - a. muffler – titanium outer sleeve: use a soft cloth sprayed with a multi-purpose spray lubricant (WD-40 or equivalent)
 - b. RACING - stainless steel link pipe, collector, header tubes: use a soft cloth sprayed with a contact cleaner, then wipe with a soft dry cloth
 - c. EVOLUTION - titanium link pipe, collector, header tubes: use a soft cloth sprayed with a multi-purpose spray lubricant (WD-40 or equivalent)Cleaning will prevent spots from burning onto the surface. Do not use aggressive chemical cleaners, because they can damage the sticker.
4. reattach the front spoiler, side cowlings and seat (**Figure 39, 40, 41, 42, 43, 44**)
5. position of the installed Akrapovic Evolution system (**Figure 45**)

Check the operation of the brakes and suspension. Make sure all the bolts are sufficiently tightened. In case the exhaust system touches the cowlings or other parts repeat the adjustment of the exhaust system or contact your authorized dealer.

! IT IS NORMAL IF WHITE SMOKE COMES OUT OF THE MUFFLER ON FIRST OPERATION.

! DO NOT STAND BEHIND THE MUFFLER ON FIRST OPERATION.

! DO NOT USE AUTOMOTIVE WHEEL CLEANERS OR ANY CLEANING PRODUCTS WHICH CONTAIN ACIDIC ADDITIVES TO CLEAN AKRAPOVIC EXHAUST SYSTEMS.

MAINTENANCE OF THE AKRAPOVIC EXHAUST SYSTEM

1. Clean the titanium muffler outer sleeve with a multi-purpose spray lubricant (WD-40 or equivalent). Do not use aggressive chemical cleaners, because they can damage the sticker. A change in the color of the exhaust system is normal due to the high temperatures.
2. The wearing out of the muffler silencing material depends on the type of the motor and riding style. Contact your dealer/serviceman if visible changes appear on muffler's outer sleeve or the noise level is increased.
3. Periodically ensure that all the bolts and springs are sufficiently tight.

Photos:



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6



Figure 7



Figure 8



Figure 9



Figure 10



Figure 11



Figure 12



Figure 13



Figure 14



Figure 15



Figure 16



Figure 17



Figure 18



Figure 19



Figure 20



Figure 21



Figure 22



Figure 23



Figure 24



Figure 25



Figure 26



Figure 26a



Figure 26b



Figure 27



Figure 28



Figure 29

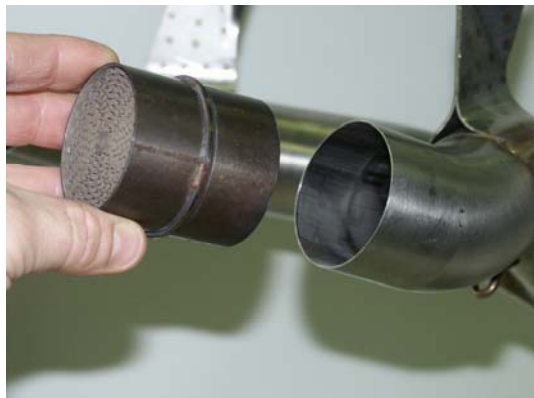


Figure 29a



Figure 29b



Figure 30



Figure 31



Figure 32



Figure 33



Figure 34



Figure 35



Figure 36



Figure 37



Figure 38



Figure 39



Figure 40



Figure 41



Figure 42



Figure 43

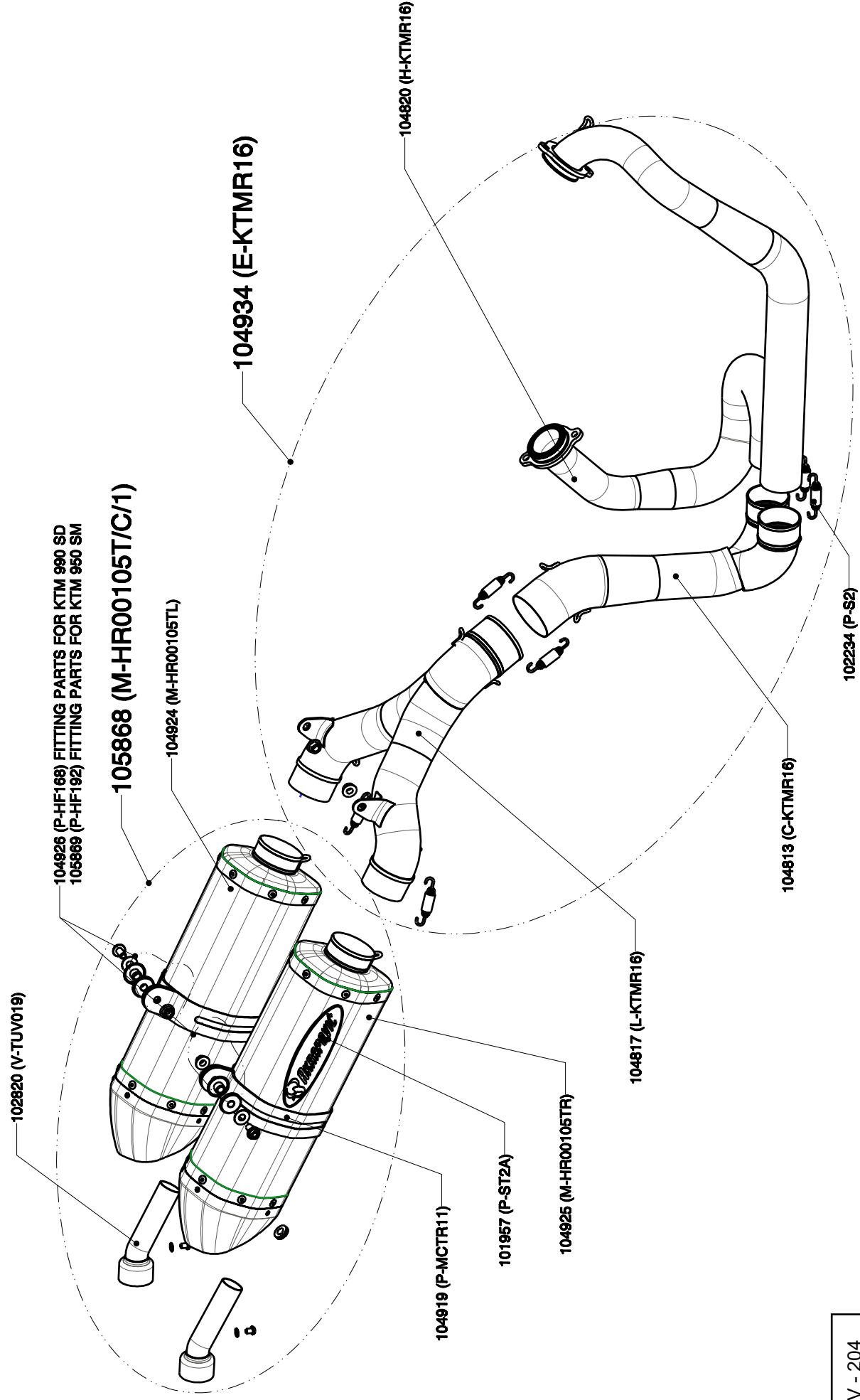


Figure 44

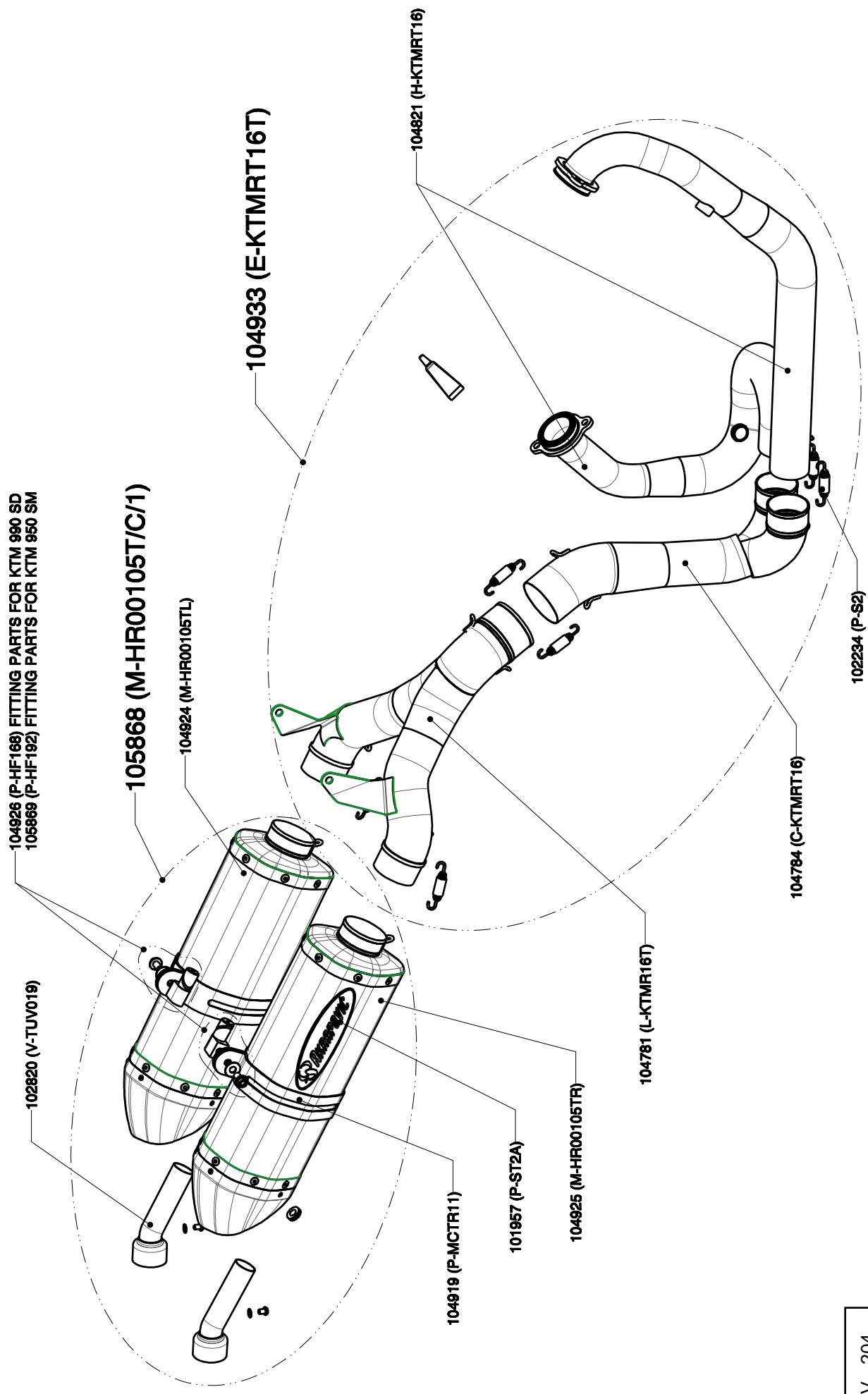


Figure 45

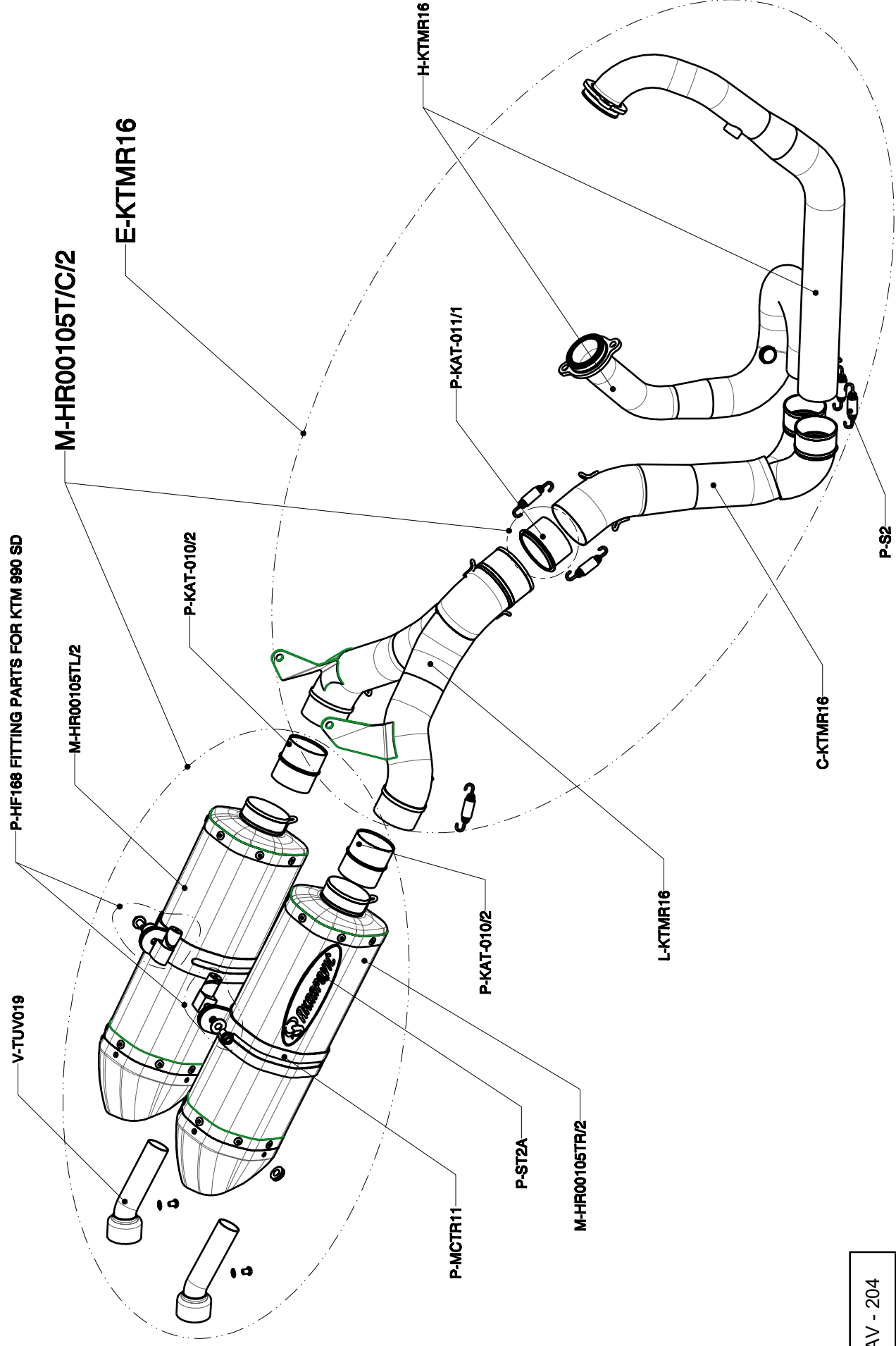
KTM 990 SUPERDUKE, Racing exhaust system/Homologated/Model year: 2005-2006



KTM 990 SUPERDUKE, Evolution exhaust system/Homologated/Model year: 2005-2006



KTM SUPERDUKE 990, Racing exhaust system/Model year: 2007/STREET LEGAL (EURO3)



KTM SUPERDUKE 990, Evolution exhaust system/Model year: 2007/ STREET LEGAL (EURO 3)

