

Casalmaggiore, June 20th 2022

FIA Formula 4 Championships, Technical Bulletin no. 017/22

OBJECT: 414-F4 GEN2 engine, exhaust pipe with muffler

Copy: FIA Formula 4 Championships - Entrants
SUBJECT: Abarth 414-F4 GEN2 engine – exhaust pipe with muffler

Autotecnica Motori developed a specific design muffler for Tatuus T421 Formula 4 car.

The complete exhaust system is shown below in Fig. 1 with detailed parts list (Tab. 1), codes and prices (Tab. 2). Same info and drawings are available in Autotecnica Motori cloud in the Spare Parts folder.

29B - Exhaust - muffler

Release 14/06/2022

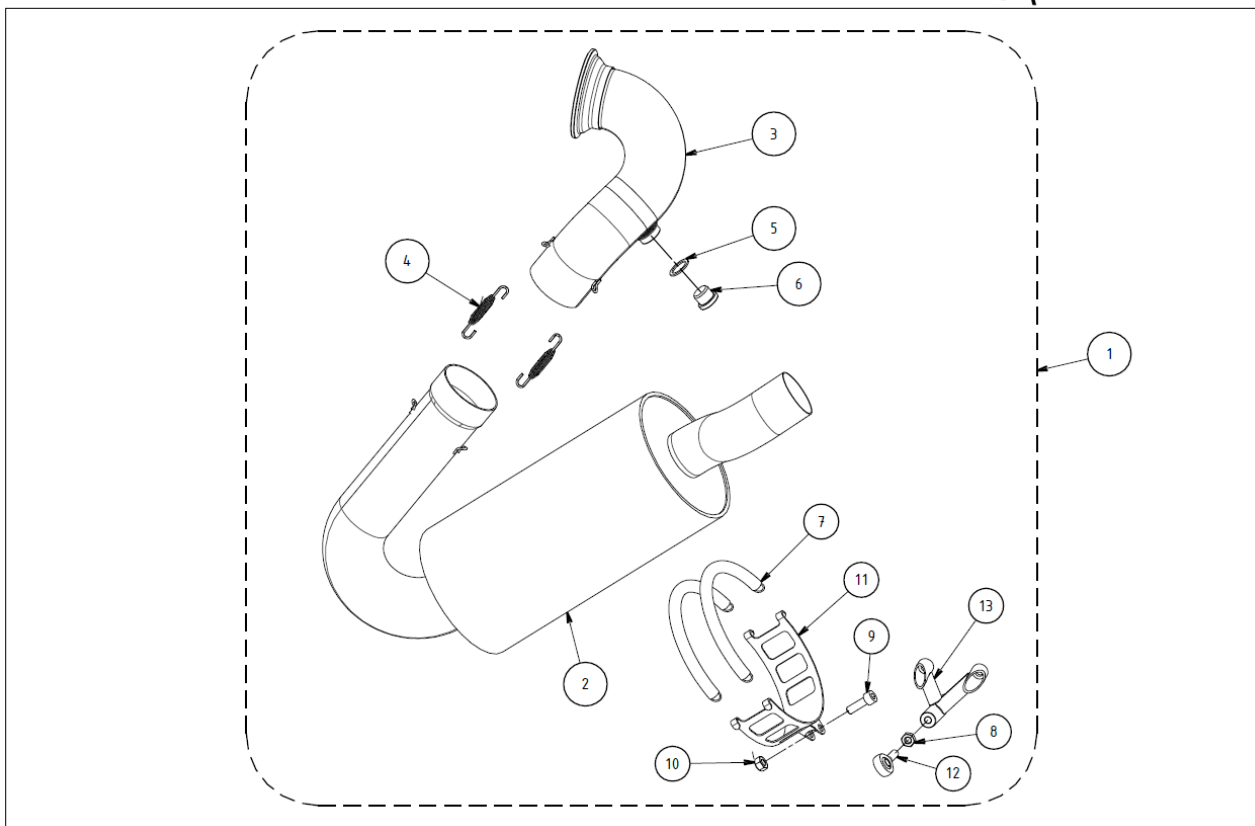


Fig. 1 – Exhaust with muffler drawing

29B - Exhaust - muffler

Release 14/06/2022

Index	Code	Description	Quantity	Mounting instruction
1	AM000513	COMPLETE EXHAUST WITH MUFFLER	1	
2	AM000512	MUFFLER D.150	1	
3	AM000497	EXHAUST	1	
4	AM501401	EXHAUST SPRING	2	
5	AM500073	COPPER WASHER 18x24x1.5	1	
6	AM500265	LAMBDA SENSOR PLUG	1	
7	AM501434	SPRING 12.7 - 1.4 - 127	2	
8	AM501268	HEXAGON THIN NUTS M8	1	
9	AM500426	CH BOLT M8x25 - 8.8	1	Tightening torque 16 ± 2 Nm
10	AM501403	PREVALING-TORQUE NUT M6	1	
11	AM000505	MUFFLER SUPPORT	1	
12	AM501400	BALL JOINT 8-M8	1	
13	AM000506	EXHAUST BRACKET	1	

Tab. 1 – Exhaust with muffler codes and description

Code	Description	Q.ty	Price (unit)	Price (kit)
AM000512	MUFFLER D.150	1	€ 1.320,00	€ 1.320,00
AM000497	EXHAUST	1	€ 475,00	€ 475,00
AM501401	EXHAUST SPRING	2	€ 8,58	€ 17,16
AM500073	COPPER WASHER 18x24x1.5	1	€ 2,00	€ 2,00
AM500265	LAMBDA SENSOR PLUG	1	€ 12,35	€ 12,35
AM501434	SPRING 12.7 - 1.4 - 127	2	€ 15,54	€ 31,08
AM501268	HEXAGON THIN NUT M8	1	€ 3,00	€ 3,00
AM500426	CH BOLT M8x25 - 8.8	1	€ 2,00	€ 2,00
AM501403	PREVALING-TORQUE NUT M8	1	€ 2,00	€ 2,00
AM000505	MUFFLER SUPPORT	1	€ 87,50	€ 87,50
AM501400	BALL JOINT Ø8 - M8	1	€ 16,37	€ 16,37
AM000506	EXHAUST BRACKET	1	€ 157,50	€ 157,50

Tab. 2 – Exhaust with muffler codes and prices

The complete exhaust system with muffler can be ordered with code **AM000513** for **2.000,00€**.

Please note the exhaust pipe in Fig. 2 is a prototype, therefore some minor changes will be present in the mass production component.
Furthermore proper springs will be available.

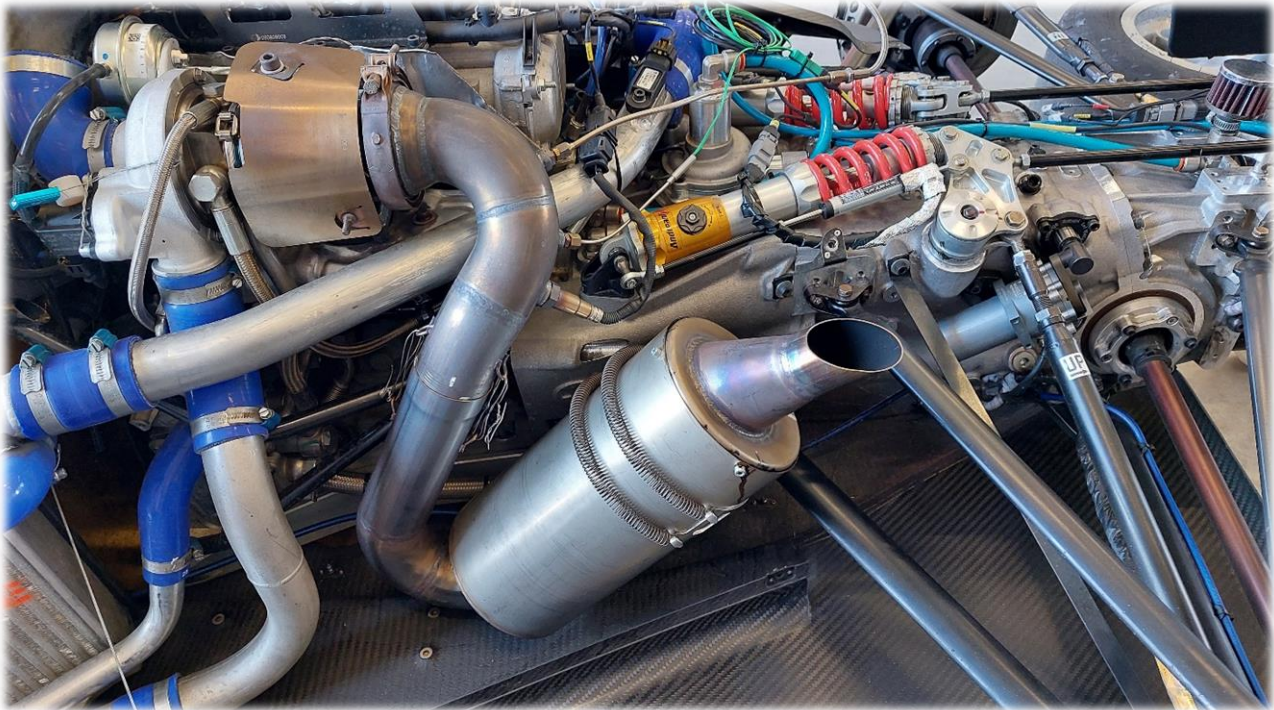


Fig. 2 – Exhaust with muffler mounted



Fig. 3 – Exhaust with muffler dismounted

Technical specs

Following simulation and track noise level measurements, here below noise reduction properties of Autotecnica Motori exhaust with muffler:

"Static" noise level decrease as per ACI Sport Regulation test procedure (3800rpm) = - 4dB

"Static" noise level decrease at 3/4 max rpm (4725rpm) = -3dB

"Drive by" noise level decrease = -3dB

The exhaust pipe is intended to be "plug&play", no chassis and/or auxiliary modification required.

Please note the following components

- AM000497
- AM501401
- AM500073
- AM500265

are in common with "Exhaust with catalyst kit" AM000498.

Orders

Parts orders to be sent to ordini@autotecnicamotori.it.

Delivery time upon order: 4 weeks

First available delivery term August 22nd 2022 (no exhaust system available before week 34).