



Yamaha YZF R6 (2003 - 2005)

Racing & Evolution Exhaust System

Akrapovic Racing & Evolution Exhaust System

for the Yamaha YZF R6 (2003 - 2005)

On the track amongst strong competition, every extra horsepower and every shaved gram is a welcome bonus. If you install one of our top-level exhaust systems, you'll know exactly what we mean!

The exhaust systems which were designed for the R6 represent the top of the Akrapovic range. They combine everything we have gained from our years of experience on the racing scene, top-level know-how and modern production technology. The Akrapovic RACING and EVOLUTION systems are the flagships of our production series. This is proved by numerous amateur and professional riders all over the world. Of course, some riders want to enjoy the racing feeling during everyday riding, so all Akrapovic exhaust systems are developed on stock set-up bikes, including the RACING and EVOLUTION systems for the Yamaha R6. For 2005, the R6 delivers more power than the 2004 model.

NOTE1: We have also developed an Akrapovic EVOLUTION 2 exhaust system for the Yamaha YZF R6, which is intended only for races and championships which allow louder exhaust systems – 107 dB. The EVOLUTION 2 differs from the EVOLUTION and RACING systems in the design of the muffler. The muffler is shorter and louder than the muffler for the EVOLUTION and RACING systems (105.5 dB). The Akrapovic carbon-fiber bracket is mandatory (instead of optional as for the RACING and EVOLUTION). The EVOLUTION 2 is only suitable for certain types of competition!

NOTE2: Racing, Evolution, and Evolution 2 systems with the HEXAGONAL muffler are also available for the 2003-2005 Yamaha YZF R6. Performance is identical to the oval muffler.

PERFORMANCE

Measurements of the Akrapovic EVOLUTION system on the YAMAHA YZF R6: (without muffler insert):

Power: the linear supply of power up to 13200 rpm is the first thing that catches your eye about the power curve. With the use of our exhaust system the power increase begins at 6200 rpm, and by the time you reach 13250 rpm, 111 HP are being delivered to the rear wheel. The maximum power increase over the stock system is shown at 8600 rpm, where it reaches 4.4 HP. Although this is a racing exhaust system, we were able to increase power in the middle of the range as well. With this we also made the exhaust system suitable for more comfortable riding.

Torque: the torque curve also shows a major increase in the middle of the rpm range. With our exhaust system, there is enough torque so that you don't have to wind the engine out to get the torque you need. But if you do, you'll find enough torque at the top of the range as well, since the torque band is both wider and higher at the top of the range than the stock curve.

CONFIGURATION

The configurations of the Akrapovic RACING and EVOLUTION systems for the R6 are identical. They differ only in the selection of materials. Thus the header assembly for the RACING model is made of high-quality stainless steel, while the EVOLUTION system is distinguished by the use of titanium. The main difference between the materials is reflected in the overall weight of the system. The configuration of both systems is also based on the use of conical elements, from which the tubes of the header assembly are formed. Due to the different parts of the 4-2-1 configuration, some of the joints are not welded, but are held together using free-floating connections with high-quality, silicon-shielded tensioning springs. During the development of both systems we tested the efficacy of the use of interference crossover tubes, which improved the performance of the systems substantially. Both the RACING and EVOLUTION systems include fittings for mounting a lambda sensor. The mufflers of these systems were developed following the familiar Akrapovic formula. Weight reduced to a minimum, oval section which goes beautifully with the lines of the bike, interior made entirely of titanium, two options for the outer sleeve material. You can choose between the racing look of carbon-fiber or the satin sheen of titanium. The difference between the two is purely aesthetic, as all of the performance characteristics are identical. The muffler is attached to the bike with the renowned Akrapovic carbon-fiber clamp. Both systems are available with a lighter carbon-fiber chassis hanging bracket to which the muffler and carbon-fiber clamp are attached. The carbon-fiber chassis hanging bracket slightly raises the level of the muffler.

Product code: 105523 (S-Y6R4L-ZC), 105522 (S-Y6R4L-ZT) hexagonal racing
 105521 (S-Y6RFT4TL-ZC), 105520 (S-Y6RFT4TL-ZT) hexagonal evolution
 100440 (S-Y6R4L-C), 100441 (S-Y6R4L-T) racing
 100442 (S-Y6RFT4TL-C), 10443 (S-Y6RFT4TL-T) evolution

	PERFORMANCE		
	stock	AKRAPOVIC	max. increased power
max. rear wheel power HP / rpm (measured on SuperFlow Cycle Dyn)	104.6 / 12700 (03-04) 107.9 / 13100 (2005)	108 / 12700 (03-04) 111.1 / 13250 (2005)	5.6 / 8100 (03-04) 4.4 / 8600 (2005)

	CONFIGURATION		
	header tubes	collector	link pipe
material	TITANIUM (Evolution) STAINLESS STEEL (Racing)	TITANIUM (Evolution) STAINLESS STEEL (Racing)	TITANIUM (Evolution) STAINLESS STEEL (Racing)
tube shape	CONICAL	CYLINDRICAL	CONICAL

interference crossover tubes	YES	lambda sensor	YES	
header tube inner sleeves	S.S. CNC MACHINED	header tube flanges	ALU CNC MACHINED	
header tubes - collector connection	SLEEVE JOINT + SILICON SHIELDED SPRINGS	collector / header tube - link pipe connection	SLEEVE JOINT + SILICON SHIELDED SPRINGS	
link pipe - muffler connection	SLEEVE JOINT + SILICON SHIELDED SPRINGS	muffler inlet cap / outlet cap	TITANIUM / TITANIUM, CARBON-FIBER (hexagonal)	
muffler metal interior	TITANIUM	muffler outer sleeve	TITANIUM / CARBON-FIBER	
muffler clamp	CARBON-FIBER ROAD	muffler bracket	CARBON-FIBER (optional)	
muffler insert	EU	-	heat shield	-
	US	-	catalytic converter	-

	ADDITIONAL DATA				
	stock	AKRAPOVIC		difference	
weight comparison (kg)	7.30	RACING	EVOLUTION	stock - RACING	stock - EVOLUTION
		5.10	4.28	2.20	3.02
noise measurements (dB / rpm)	stock		AKRAPOVIC		
	93.5 / 6500 (03-04) 92 / 6500 (2005)		101.5 / 6500 (03-04) 101 / 6500 (2005)		
possibility of periodic service without removing A.E.S.	oil		oil filter		
	YES		YES		
legal for street use	NO / YES (street legal version)				

Technical specifications of Akrapovic exhaust systems and related products subject to change without notice.

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ANTI-SEIZING GREASE



CARBON-FIBER MUFFLER CLAMP

Road Program

Product code: 105523 (S-Y6R4L-ZC), 105522 (S-Y6R4L-ZT) hexagonal racing
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Road
Program

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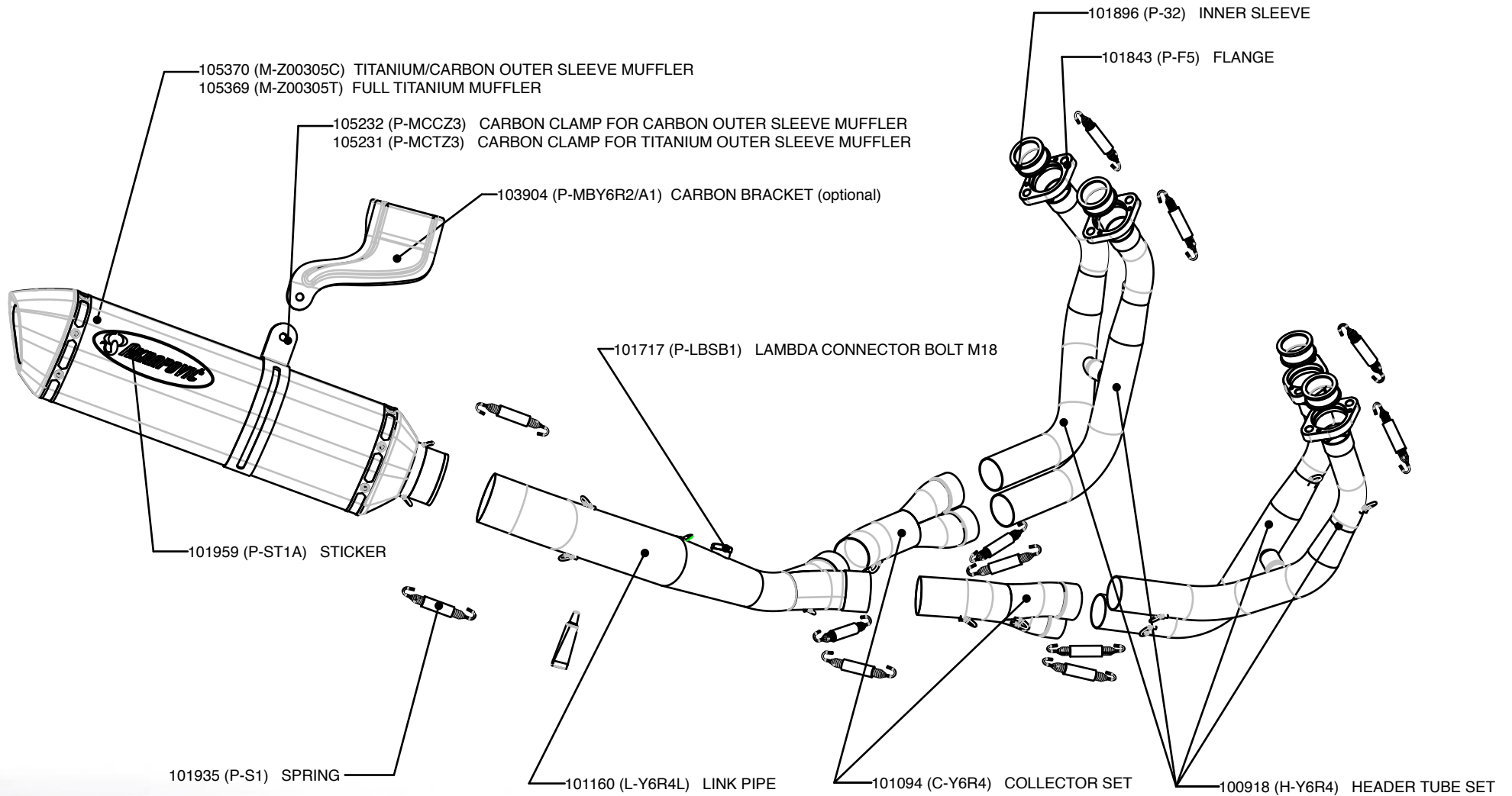
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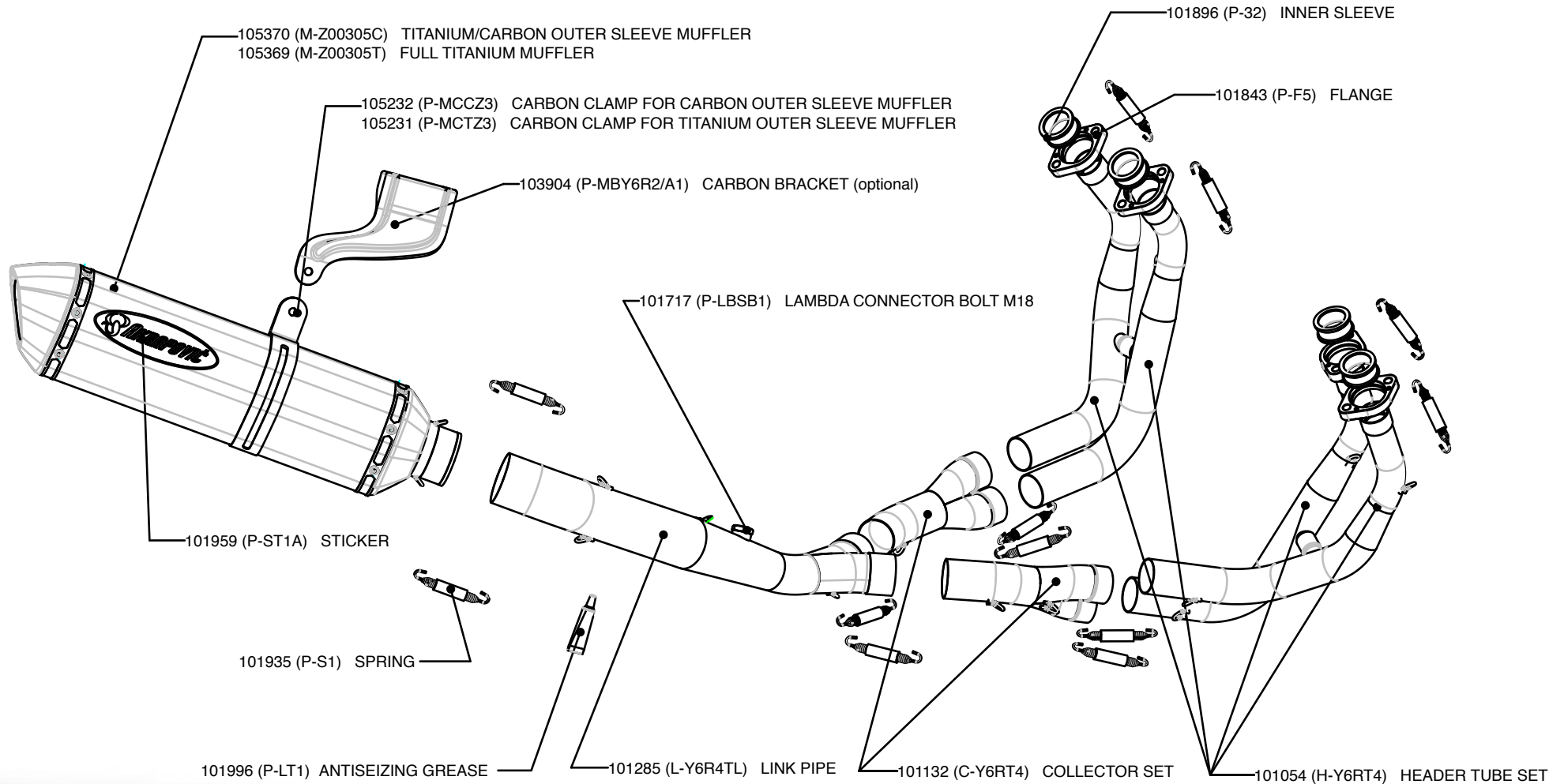


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ANTI-SEIZING GREASE



CARBON-FIBER
MUFFLER CLAMP

Product code: 100440 (S-Y6R4L-C), 100441 (S-Y6R4L-T) racing
100442 (S-Y6RFT4TL-C), 10443 (S-Y6RFT4TL-T) evolution

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Road
Program

Product code: 100440 (S-Y6R4L-C), 100441 (S-Y6R4L-T) racing
100442 (S-Y6RFT4TL-C), 10443 (S-Y6RFT4TL-T) evolution

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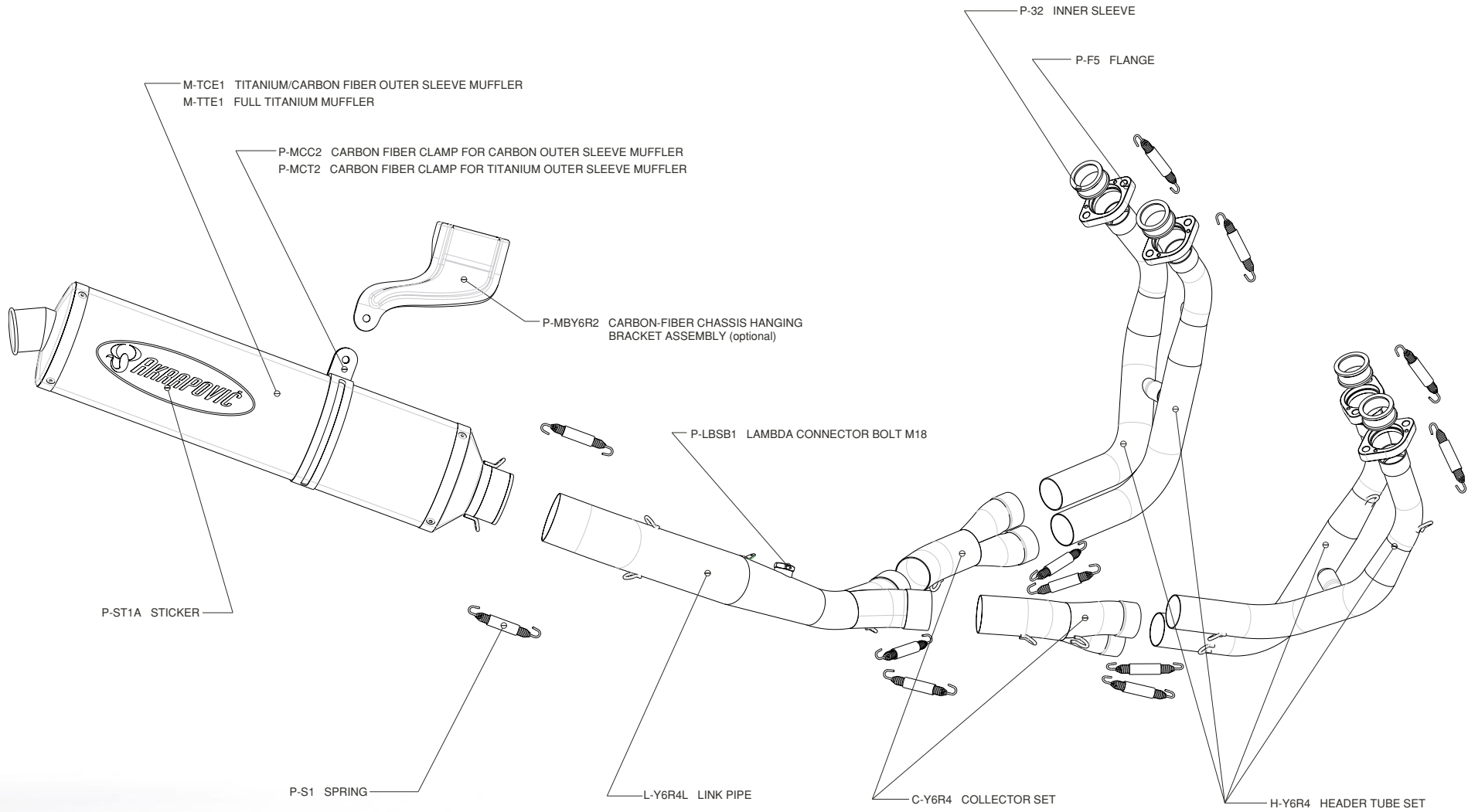
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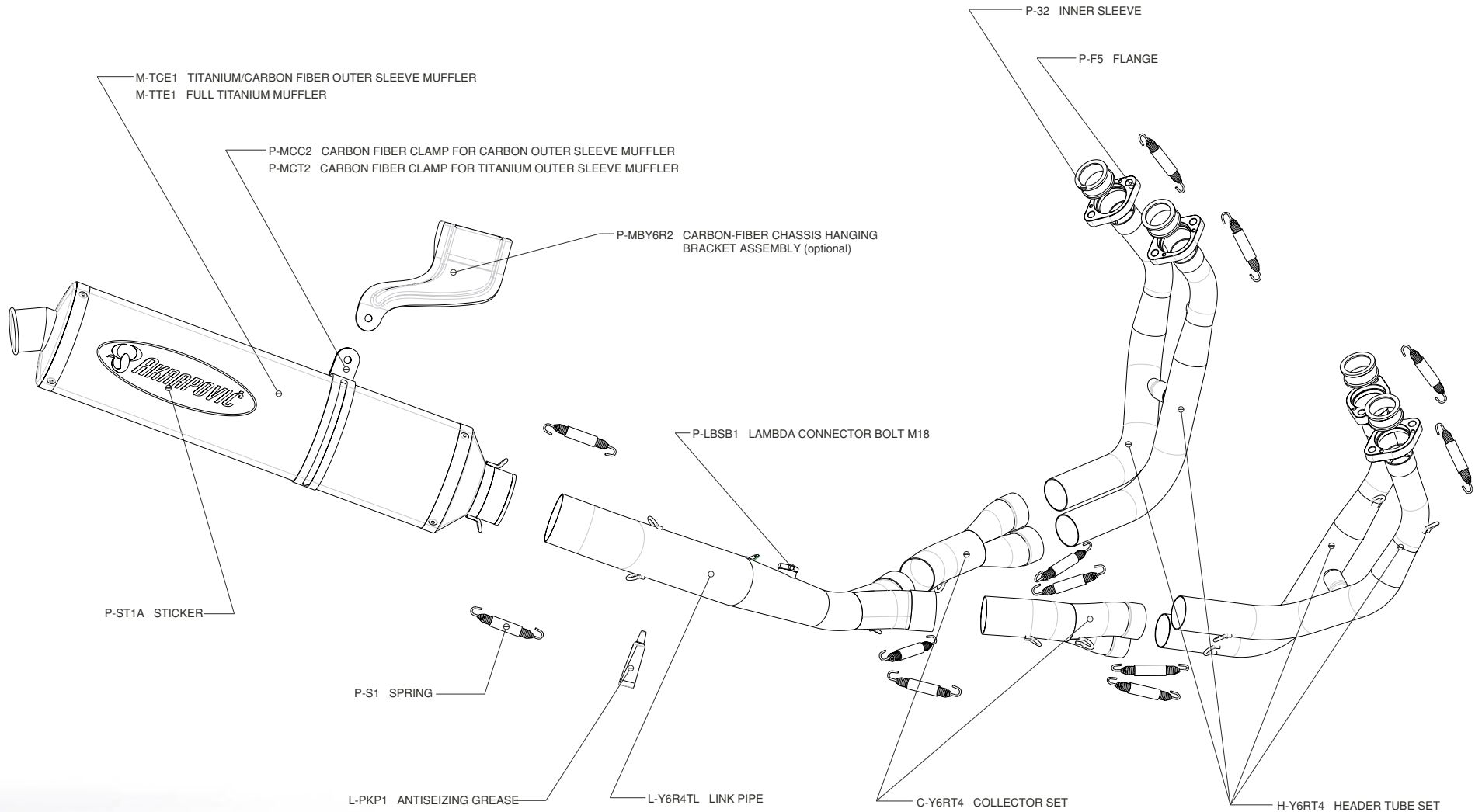
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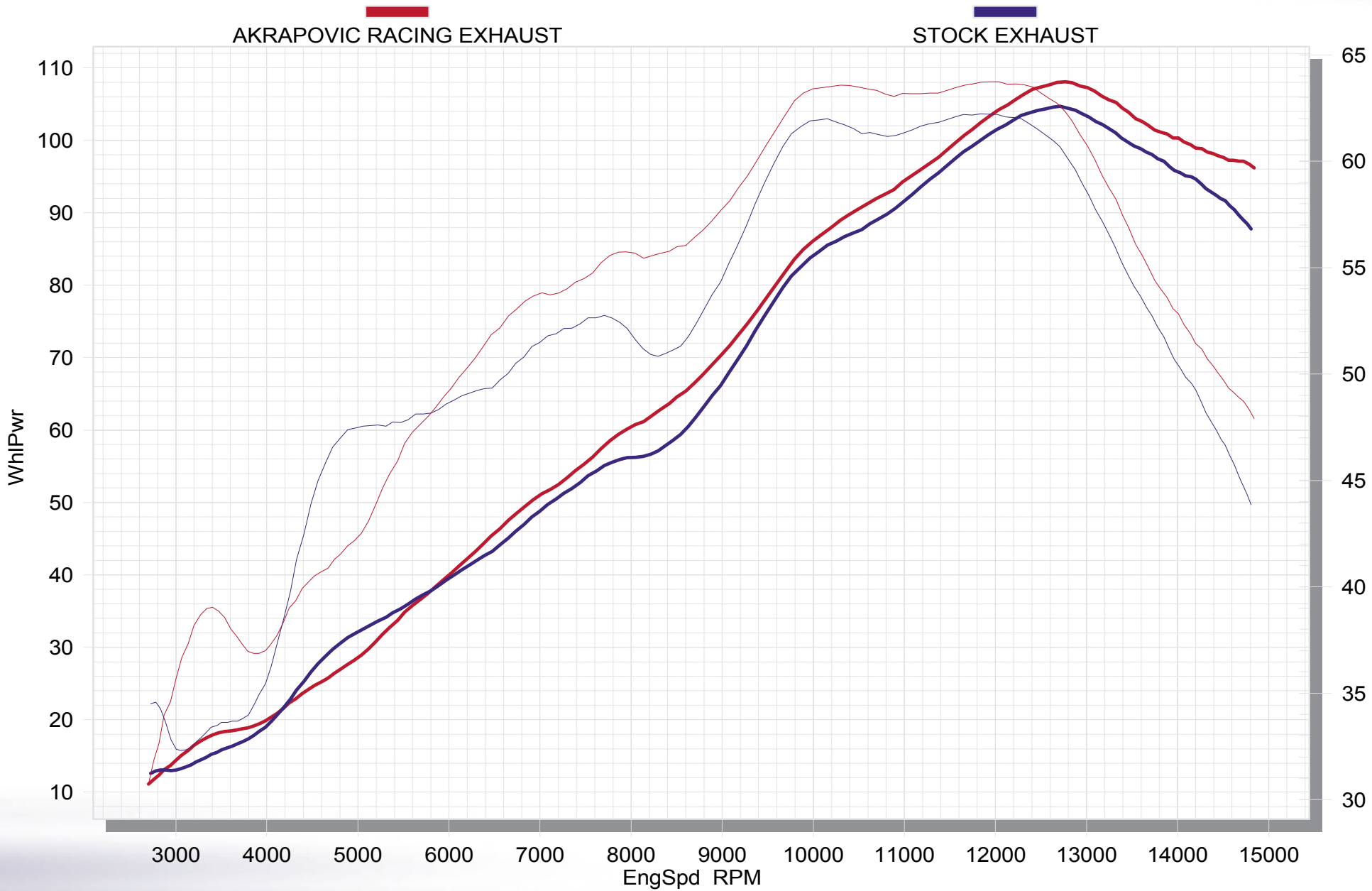
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Road Program

Product code: 100442 (S-Y6RFT4TL-C), 10443 (S-Y6RFT4TL-T) evolution



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Road Program

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 100442 (S-Y6RFT4TL-C), 10443 (S-Y6RFT4TL-T) evolution



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