



Yamaha YZF R1 (2002, 2003)

Racing / Evolution Exhaust System

# Akrapovic Racing / Evolution Exhaust System

for the Yamaha YZF R1 (2002, 2003)

When you sit on this Supersport motorcycle, you know that it's not meant for making nice easy turns at cruising speed. You know what it's like and you know it's got power to burn. It was clearly designed and built to get your adrenalin flowing, to find that ideal line on the road and even more especially on the track. We're talking about the bike known as a two-wheeled rocket made for everyone who loves the taste of outrageous top speeds, fantastic acceleration and superb braking.

## GOAL

Those crucial seconds, those hundredths of seconds which decide your lap times - you know exactly what each weight savings will bring, and how much each additional horsepower is worth. We too know these things. That's why we use all our experience to try to help all motorcycling enthusiasts whose heart stars beating at the smell of the racetrack. We have developed complete RACING and EVOLUTION exhaust systems for those who try to find the ideal line on their Yamaha R1s. With either one, you will be able to steal back some hundredths, maybe even seconds.

## ABOUT AKRAPOVIC RACING & EVOLUTION SYSTEMS

The function of these systems is precisely determined. More power, more torque, and not just anywhere along the range of the motor; these increases are concentrated in the upper end of the rpm range. Since high revs are used most of the time during races, this means that you get the increased power when you need it most!

The system is built in 4-2-1 construction and is made of conical elements welded together with filigree welds. The RACING line system is made of stainless steel, while the EVOLUTION line system is made of titanium. Conical construction guarantees maximum utilization of the flow of the exhaust gases in both systems. Since the results of testing showed no advantage with the use of interference crossover tubes across the headers, they are not installed in the systems. Note: The EVOLUTION line system includes a fitting for installing a lambda sensor.

Both systems include high-quality silicon-shielded springs for joining the parts of the header assembly, while the muffler is attached to the stock chassis hanging bracket with a high-quality carbon-fiber clamp. We offer a carbon-fiber hanging bracket as an option for both systems. The carbon-fiber hanging bracket ensures maximum compactness and lighter weight.

### NOTE:

Passenger footrests cannot be used when the carbon-fiber hanging bracket is installed.

You also have a choice of materials for the outer sleeve of the muffler: our exceptionally popular carbon-fiber option or exotic titanium. In both cases the performance of the system and the color and depth of the sound are the same; the only difference

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

is the appearance. The perforated inner sleeve, the front cap and the end cap are made of titanium in both versions.

Both systems were developed on stock set-up motorcycles and require no additional tuning. Their construction is identical; they differ only in material selection, which is reflected only in the weight of the system. Weight savings, one of the fundamental reasons for purchasing an aftermarket exhaust system, are incredible with our systems! Due to the specifics of the material, they are greater in the case of the EVOLUTION system.

## Measured performance of the RACING and EVOLUTION system for the Yamaha R1:

### •power:

These Akrapovic systems are exactly what customers expect from a racing exhaust system. An enormous amount of power from the middle of the range all the way up to the physical limits of the motor. Despite the fact that the R1 is already a fundamentally excellent machine, with our system its power increases even more linearly from 5000 rpm and develops such brutal power that there is simply no comparison with the stock system. Maximum power is achieved at 11000 rpm, where it delivers an unbelievable 141.5 HP, while maximum increased power is a full 7 HP at 7500 rpm.

### •torque:

The oscillation of the Akrapovic torque curve from 3400 to 4000 rpm is a consequence of the design of the motor itself. Yamaha solves this problem by using an EX-UP valve, so the oscillations do not show up on the stock curve. Since both Akrapovic exhaust systems are mainly intended for racing, these oscillations in the operation of the motor are immediately noticeable, but they have no effect on adding torque further up the range. The fact is that our system is designed to be run at high rpms, and it does this extremely well, giving bags of additional torque right up to the red line.

Our RACING and EVOLUTION line systems will definitely give your bike that "racing look", together with the world famous scorpion on the logo. If that still doesn't convince you, start the engine. The penetrating sound of the Akrapovic exhaust will get your hair standing on end, and attract a lot of attention to your Yamaha.

No matter whether you choose the RACING or the EVOLUTION system, you will receive top-quality components which are the fruit of the knowledge and experience of our development department. This has been gained through years of working together with numerous factory and private racing teams which use Akrapovic exhaust systems in extreme racing conditions.

	stock	AKRAPOVIC		difference	
		S.S.	titanium	stock - S.S.	stock - titanium
weight comparison	kg	5.60 kg	4.20 kg	kg	kg
max. rear wheel power	135 HP / 10600 RPM	141.5 HP / 11000 RPM		7 HP / 7500 RPM*	
noise measurement	92 db / 5250 RPM	100 db / 5250 RPM		8 db / 5250 RPM	
legal for street use		NO			

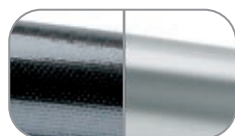
\*MAXIMUM MEASURED POWER DIFFERENCE

# Akrapovic Racing / Evolution Exhaust System for the Yamaha YZF R1 (2002, 2003)

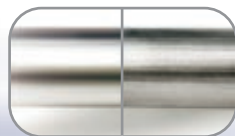


Akrapovic Exhaust System Technology copyright 2003, all rights reserved

Road Program



The outer sleeve is available in carbon-fiber or titanium



The header tubes are made of stainless steel (Racing Line) or titanium (Evolution Line)



CARBON-FIBER CHASSIS HANGING BRACKET IS OPTIONAL



ANTI-SEIZING GREASE (EVOLUTION LINE ONLY)



CARBON-FIBER MUFFLER CLAMP

Product code: S-Y10R5-C, S-Y10R5-T, S-Y10RFT5TL-C, S-Y10RFT5TL-T



# Akrapovic Racing / Evolution Exhaust System for the Yamaha YZF R1 (2002, 2003)



Akrapovic Exhaust System Technology copyright 2003, all rights reserved

Road  
Program



# Akrapovic Racing / Evolution Exhaust System for the Yamaha YZF R1 (2002, 2003)



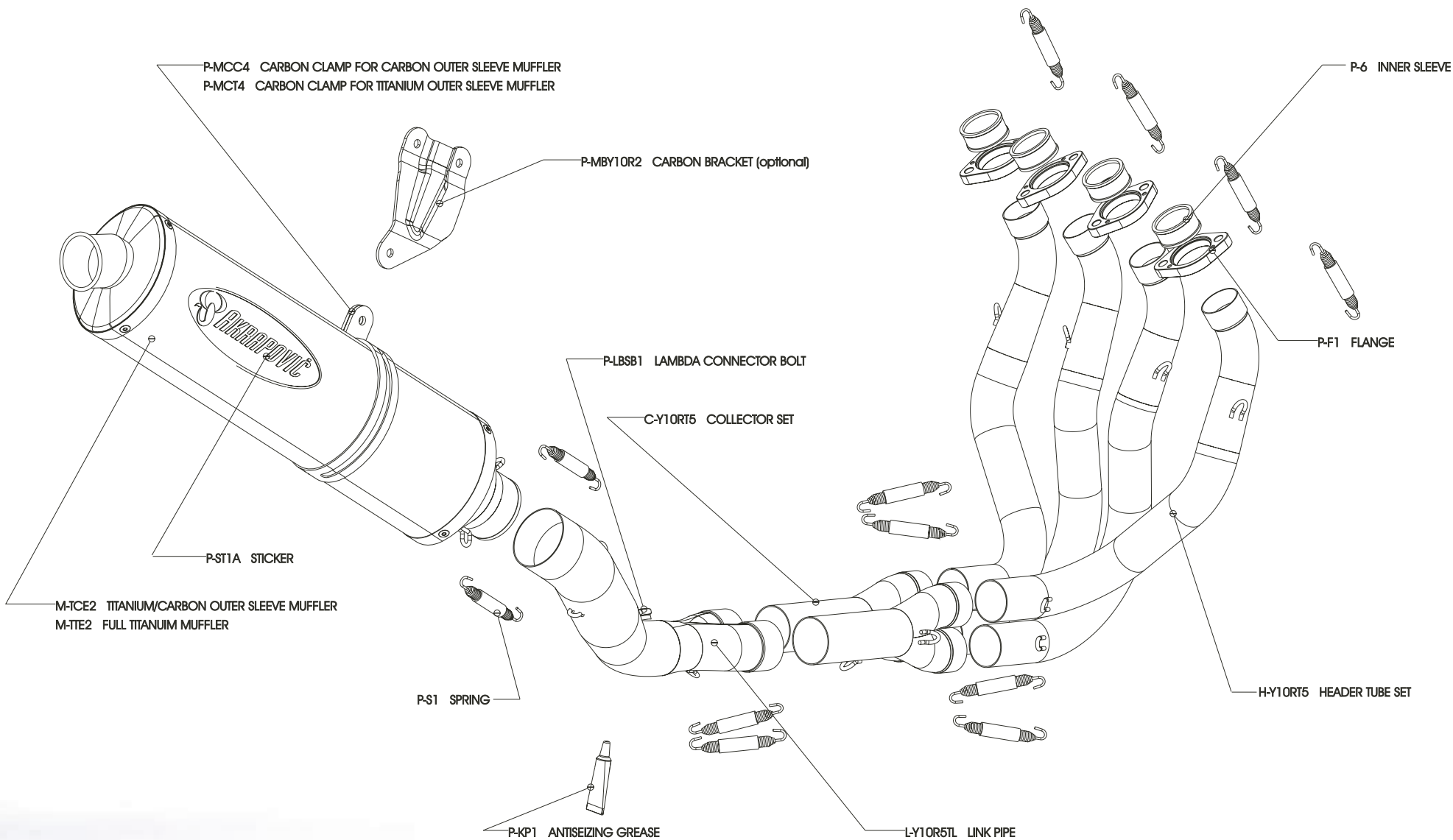
Akrapovic Exhaust System Technology copyright 2003, all rights reserved

Road Program

Product code: S-Y10R5-C, S-Y10R5-T, S-Y10RFT5TL-C, S-Y10RFT5TL-T



# Akrapovic Evolution Exhaust system for the Yamaha YZF R1 (2002, 2003)

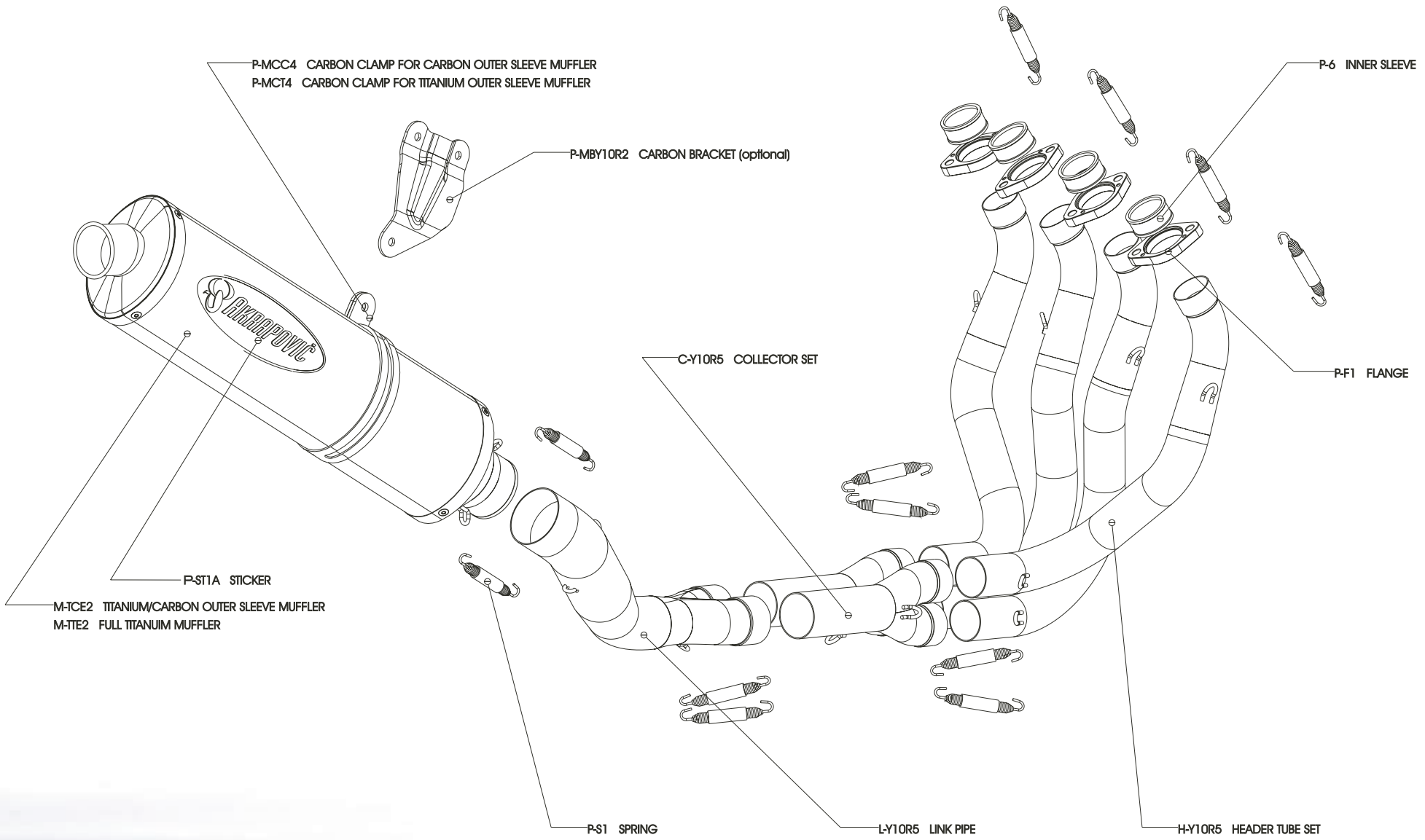


Akrapovic Exhaust System Technology copyright 2003, all rights reserved

Road Program



# Akrapovic Racing Exhaust system for the Yamaha YZF R1 (2002, 2003)



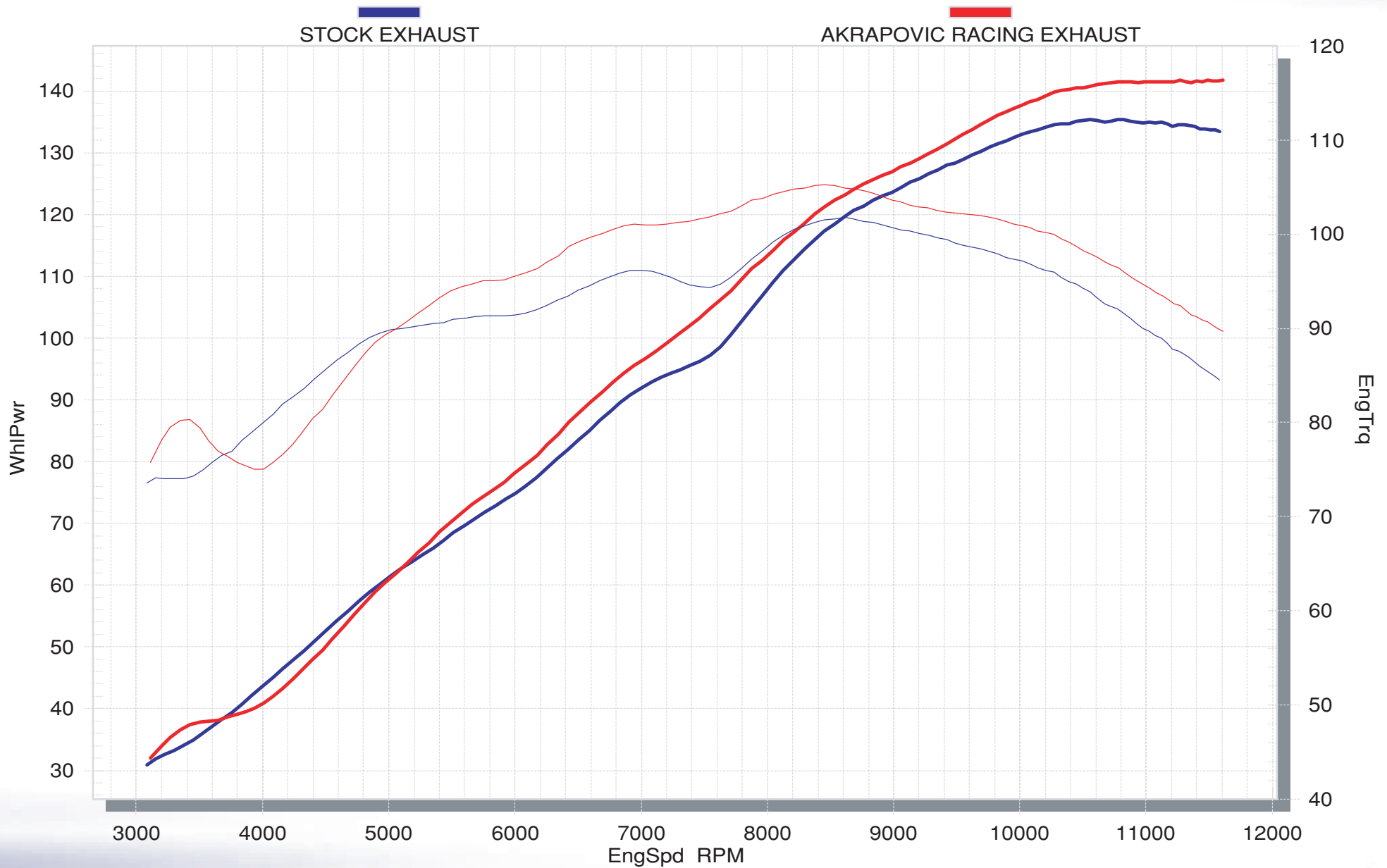
Akrapovic Exhaust System Technology copyright 2003, all rights reserved

Road Program



# Akrapovic Racing / Evolution Exhaust System

for the Yamaha YZF R1 (2002, 2003)



Akrapovic Exhaust System Technology copyright 2003, all rights reserved

Road Program

