

## HIGH PERFORMANCE EXHAUST SYSTEM

for SCION FR-S/ TOYOTA 86/ SUBARU BRZ

It will make the new horizontally-opposed + DS4 technology engine for higher performance.  
We have developed it for the best power feeling and sound for NA.

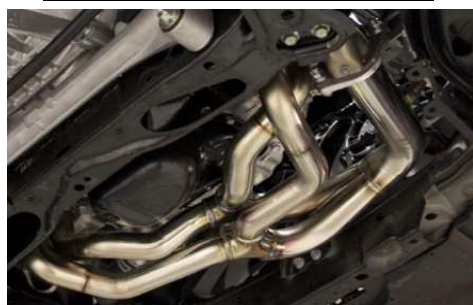
-We also released Titanium tip model for the super thin pipe of lightweight SPEC-L muffler.

-We have removed both first and second catalyzer to be straight for the higher performance.

-We have tuned the unique horizontally-opposed FA20 sound from the frequency analysis for the straight layout by removal of catalyzer.

-We have developed the product to fit for user taste of system structure.

### HKS EXHAUST MANIFOLD



Code No. 33002-BT001

MSRP:

\* Please check the more information about the product in the separate documents.

### STAINLESS FRONT PIPE



Code No. 33004-BT002

MSRP:

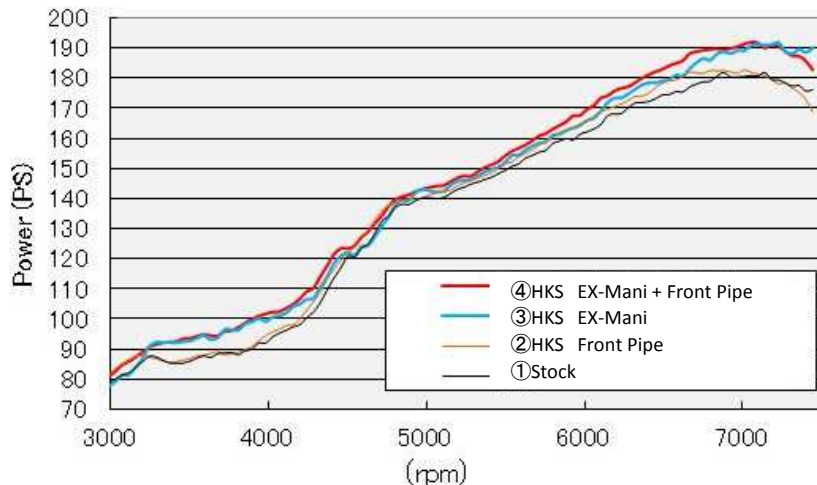
### Hi Power SPEC-L Ti



Code No. 32016-BT001

MSRP:

<Performance> Check the torque of the middle range and the performance at the high RPM!



As you can see on the left graph, the exhaust manifold is the main part for the higher output.

We recommend having a total full straight exhaust tuning by having more power by changing the muffler and exhaust manifold and tune the sound with the front pipe.

\*If the exhaust manifold is changed the engine check light might be turn on for a certain combination. So depending on the situation, muffler + exhaust manifold or muffler + front pipe will be the good options.

Please check the combination lists below for the best results.



Check the sound here!

<http://youtu.be/DdVCUqEFLw>

<Combination List> Please choose the one that is most suitable for you.

	EXHAUST MANIFOLD	FRONT PIPE	MUFFLER	CLOSE SOUND LEVEL	COMMENTS	REMARKS
1	Stock	Stock	HKS	95dB	Even only muffler change will have good sound with SPEC-L that has a super thin pipe.	
2	Stock	HKS	HKS	98dB	It has effective power up from 5500-7000RPM range. Sound is a little louder than #1.	
3	HKS	Stock	HKS	97dB	Both middle and high RPM range got big power up. This specification will have almost same power as the #4(12ps up). The sound very racing like sound.	*1
4	HKS	HKS	HKS	100dB	The peak power is about same as the #3(12ps up), but has one more up level for the all RPM range. It's fun to drive with the full straight NA design and also clear and cool sound!	*2

\*1 Because the first catalyzer is eliminated, the Engine Check Lamp will be on. Fix this problem with an included o2 sensor adaptor.

\*2 Because the first and second catalyzer is eliminated, the Engine Check Lamp will be on. However, there was no problem for the Fail-Safe during our test drive.

HKS Co., Ltd.



<http://www.hks-power.co.jp/>