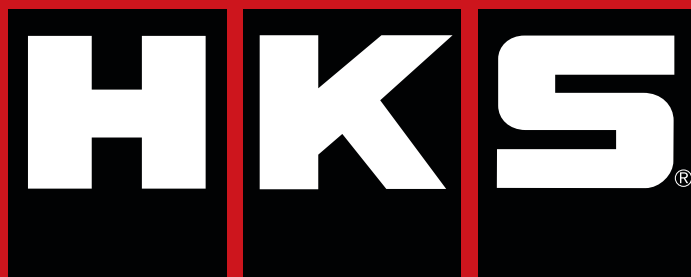


Monthly Information

NEWS



COMMUNIQUE

1 2012
January



New Year's Message

- New Year's Message P1

NEW LINE-UP

- Super Sound Master GH-,LA-,ABA-AP1 (S2000) P2
- EXHAUST MANIFOLD & METAL CATALYZER (S2000) P2
- Super Sound Master DBA-GGH20W (ALPHARD/VELLFIRE) P3
- LEGAMAX Premium DAA-ZWA10 (LEXUS CT200h) P3
- ESpremium DBA-BM9 (LEGACY B4) P3・4
- Super Turbo Muffler TA-,CBA-BP5 (LEGACY TOURING WAGON) / TA-,CBA-BL5 (LEGACY B4) P4
- RACING SUCTION Reloaded
CBA-F15 (JUKE TURBO) / DBA-YF15 (JUKE) P5
- SUPER SQV IV CBA- (N) F15 (JUKE) P5
- HIPERMAX S-Style X・L・C
ZVW40, ZVW41 (PRIUS α) /
PE52, T (N) E52 (ELGRAND) / (C) C25 (SERENA) P6
- R35 DCT COOLER KIT R35 (GT-R) P6
- GT Supercharger Universal Type GTS8555 P7

INFORMATION

- Compatibility of Premium Suction Kit (P/N 70018-AT005) and Racing Suction Reloaded (P/N70020-AT021) with PRIUS α (DAA-ZVW41W/2ZR-FXE 11/5~) P8
- Exhaust parts compatibilities with Subaru limited editions P8
- HKS - Tokyo Auto Salon 2012 with NAPAC P9

EVENT INFORMATION

- SEMA SHOW EVENT REPORT P9

TOPICS

- New Features for S-Style Series P10



The Season's Greetings and all Good Wishes for 2012.

In 2011, Tokyo Motor Show was held last year, and in my opinion, each automobile manufacturer tends to develop and sell more attractive cars. However, most of customers are still interested in eco-cars such as compact cars, kei cars, hybrid cars, electrical car, etc. This trend will be continued awhile.

In such situations, HKS will concentrate our wisdom to create new markets and new products.

In the field of gasoline engine management, completely redesigned HKS F-CON V Pro will be introduced as one of epochal products. Also, development of a system to rewrite factory ECU data (flash rewrite) and more support for PowerWriter shops have been proceeded aggressively to have a ripple effect on GTII Turbine and Supercharger sales.

In the field of natural gas engines, we will create the market and sales channels by release of special full computer and expansion of new bi-fuel system.

Additional line-up of GTII Turbine series and GT Supercharger will be released. We will make a strategic plan to gain more favor of our GTII Turbine and Supercharger from the people around the world. We will also release more exhaust systems and dampers which have characteristics of HKS and are better than expected.

2012 is the year of our 40th anniversary; as we consider 'important year,' we will engage various activities in various areas.

On behalf of the company, I would like to take this opportunity to appreciate for your continued business.

Hiroyuki Hasegawa
President of HKS Co., Ltd.

NEW LINE-UP

Super Sound Master

Applicable to JASMA Regulation

S2000(GH-,LA-,ABA-AP1)

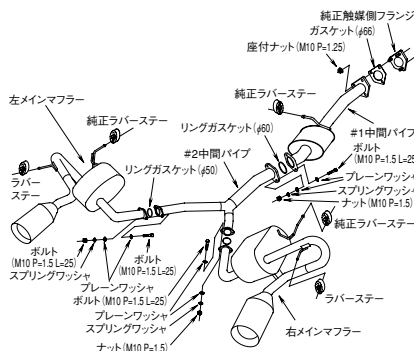
Super Sound Master

HKS SSM
 Super Sound Master

構成図

- Vehicle S2000
- Model GH-,LA-,ABA-AP1
- Engine F20C
- Model Year ... 99/4~05/10

Type of Muffler	RS
Main Material	SUS304 (*2)
Diameter of Tip	102 on both sides
Diameter of Mid Pipe	φ 60-50×2 (*3)
Exhaust Noise Level	Stock 90dB (★58dB) HKS 93dB (★62dB)
Vehicle's Height with Exhaust System(*4)	Height 123mm Measured Position Front pipe
Remarks	



Code No. 32023-AH001

JASMA Number 03S15773



備考

AP2 (2.2L)-Compatibility is not confirmed.

- *2 : Main material in the component figure. □ SUS304/ High quality stainless steel. ■ SUH409/ Stainless steel commonly used for stock exhaust.
 *3 : About center pipe. Diameter of center pipe is the portion that has the largest diameter. (Excluding silencer and tip.) It is the condition with stock suspension.
 *4 : Minimum road clearance between HKS muffler (Any parts included in the kit) and road surface. Therefore, it may be different from actual road clearance of the vehicle.
 The data is basically the condition with stock suspension. However, please understand that some items have data with low down spring or ride height adjustable suspension kit.
 Caution: Hook, bracket, stay may be changed without prior notice.
 ★ Exhaust noise level at idle.

EXHAUST MANIFOLD & METAL CATALYZER S2000

Coming Soon!

Exhaust Manifold (Header) and Metal Catalyzer will be available in the near future.

These 2 items were developed together with Super Sound Master. Even though S2000's original performance is already pretty high enough, "HKS total exhaust tuning" using Super Sound Master, Exhaust Manifold, and Metal Catalyzer together makes noticeable difference especially at about 4000rpm or when the camshaft is switched to the high speed spec.

Exhaust Manifold

This exhaust manifold does not sacrifice the torque characteristics at low to mid speed range. The layout is the same 4-2-1 type as the factory manifold. HKS' exhaust manifold is twisted at "2" to extend the pipe length allowing the torque improvement at mid speed range.. Knocking can be reduced so setting range of the ignition timing and air-fuel ratio can be wider.



Metal Catalyzer

HKS Metal Catalyzer utilizes 150cps cell design compare to the factory 400cps design. Pressure loss reduction and high emissions standard are implemented together. Pressure loss reduction effects especially on high engine RPM range providing sharp engine feeling.



More details will be introduced at HKS' website (<http://www.hks-power.co.jp/>) and the March issue of New Communique.

ALPHARD/VELLFIRE (DBA-GGH20W)

Super Sound Master



構成図



- Vehicle ALPHARD/VELLFIRE
- Model DBA-GGH20W
- Engine 2GR-FE
- Model Year ... 08/5~

Type of Muffler	C-1 (Titan)
Main Material	SUS304 (*2)
Diameter of Tip	φ 75X2
Diameter of Mid Pipe	φ 50X2 (*3)
Exhaust Noise	Stock 85dB (★60dB)
Level	HKS 85dB (★60dB)
Vehicle's Height with Exhaust System (**4)	Height 150mm
	Measured Position Catalyzer
Remarks	

Code No. 32023-AT003

JQR Number JQR41115180



備考

For Alphard "S" & Vellfire "Z". Equalized length front pipe, Metal catalyzer, Center pipe, and Main muffler are included. An emissions test certification for Metal cat is provided.

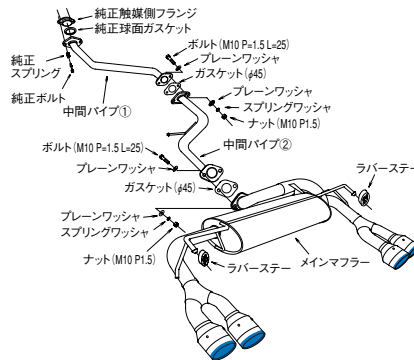
LEGAMAX Premium

LEXUS CT200h (DAA-ZWA10)

LEGAMAX Premium



構成図



- Vehicle LEXUS CT200h
- Model DAA-ZWA10
- Engine 2ZR-FXE
- Model Year ... 11/1~

Type of Muffler	C-1 (Titan)
Main Material	SUS304 (*2)
Diameter of Tip	φ 75X2 on both sides
Diameter of Mid Pipe	φ 45-45X2-42.7X4 (*3)
Exhaust Noise	Stock 68dB (★56dB)
Level	HKS 88dB (★60dB)
Vehicle's Height with Exhaust System (**4)	Height 132mm
	Measured Position Mid pipe
Remarks	

Code No. 32018-AT038

JQR Number JQR10113214



備考

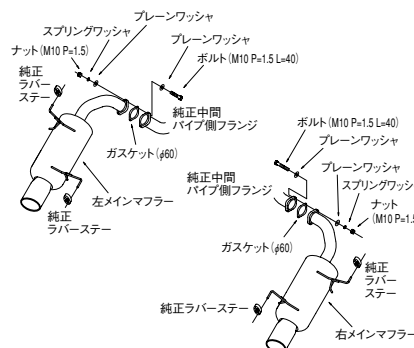
ESpremium

LEGACY B4 (DBA-BM9)

ESpremium



構成図



- Vehicle LEGACY B4
- Model DBA-BM9
- Engine EJ25 (TURBO)
- Model Year ... 09/5~

Type of Muffler	ESP
Main Material	SUS304 (*2)
Diameter of Tip	φ 115 on both sides
Diameter of Mid Pipe	φ 54 (*3)
Exhaust Noise	Stock 76dB (★55dB)
Level	HKS 88dB (★62dB)
Vehicle's Height with Exhaust System (**4)	Height 205mm
	Measured Position Main shell
Remarks	

Code No. 31026-AF015

JQR Number JQR20112181



備考

Only main mufflers

LEGACY B4(DBA-BM9)

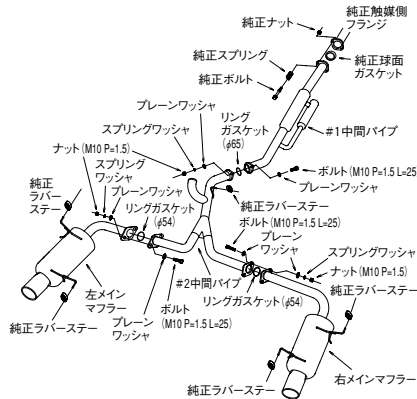
ESpremium



- Vehicle LEGACY B4
- Model DBA-BM9
- Engine EJ25 (TURBO)
- Model Year ... 09/5~

Type of Muffler	ESP
Main Material	SUS304 (*2)
Diameter of Tip	φ 115 on both sides
Diameter of Mid Pipe	φ 65-54X2 (*3)
Exhaust Noise	Stock 76dB (★55dB)
Level	HKS 88dB (★68dB)
Vehicle's Height with Exhaust System(※4)	Height 144mm Measured Position 2nd mid pipe
Remarks	

構成図



Code No. 31026-AF016



備考
Main mufflers + Mid pipes

NEW LINE-UP

Super Sound Master

Applicable to JASMA Regulation

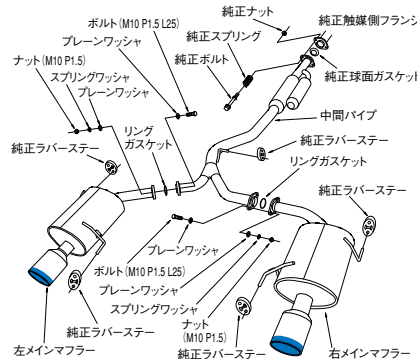
LEGACY TOURING WAGON(TA-,CBA-BP5) Super Turbo Muffler



構成図

- Vehicle LEGACY TOURING WAGON
- Model TA-,CBA-BP5
- Engine EJ20 (TURBO)
- Model Year ... 03/5~09/4

Type of Muffler	SSR
Main Material	SUS304 (*2)
Diameter of Tip	φ 124 on both sides
Diameter of Mid Pipe	φ 65-54X2 (*3)
Exhaust Noise	Stock 81dB (★55dB)
Level	HKS 84dB (★56dB)
Vehicle's Height with Exhaust System(※4)	Height 140mm Measured Position Mid shell
Remarks	



Code No. 31029-AF003



備考
Main + Mid pipe. Compatible with factory rear bumper skirt and/or exhaust finisher installed vehicles.

LEGACY B4(TA-,CBA-BL5)

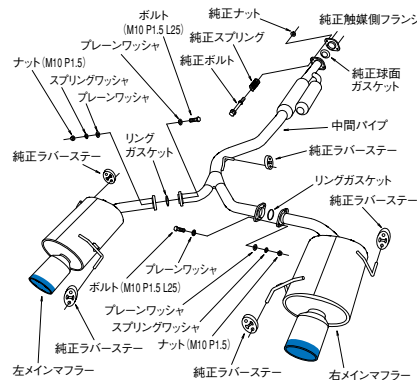
Super Turbo Muffler



構成図

- Vehicle LEGACY B4
- Model TA-,CBA-BL5
- Engine EJ20 (TURBO)
- Model Year ... 03/6~09/4

Type of Muffler	SSR
Main Material	SUS304 (*2)
Diameter of Tip	φ 124 on both sides
Diameter of Mid Pipe	φ 65-54X2 (*3)
Exhaust Noise	Stock 81dB (★55dB)
Level	HKS 84dB (★58dB)
Vehicle's Height with Exhaust System(※4)	Height 140mm Measured Position Mid shell
Remarks	



Code No. 31029-AF004



備考
Main + Mid pipe. Compatible with factory rear bumper skirt and/or exhaust finisher installed vehicles.

*2 : Main material in the component figure. □ SUS304/ High quality stainless steel. ■ SUH409/ Stainless steel commonly used for stock exhaust.
 *3 : About center pipe. Diameter of center pipe is the portion that has the largest diameter. (Excluding silencer and tip.) It is the condition with stock suspension.
 *4 : Minimum road clearance between HKS muffler (Any parts included in the kit) and road surface. Therefore, it may be different from actual road clearance of the vehicle.
 The data is basically the condition with stock suspension. However, please understand that some items have data with low down spring or ride height adjustable suspension kit.
 Caution: Hook, bracket, stay may be changed without prior notice.
 ★ Exhaust noise level at idle.

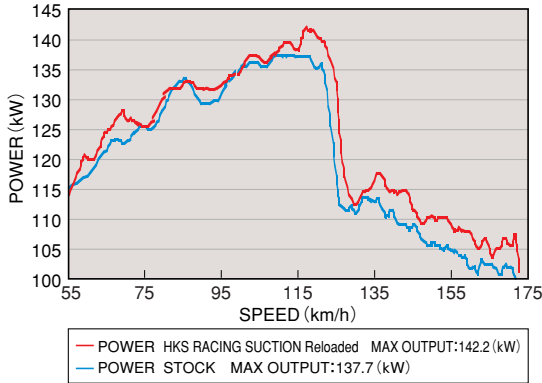
RACING SUCTION Reloaded

CBA-F15(JUKE TURBO)/DBA-YF15(JUKE)

JUKE TURBO(CBA-F15) FEATURES

Peak power was increased to create torqueful engine.
 Sporty intake sound uplifts drivers' sprits.
 Resetting is not required since this product is designed to have no negative affect on the airflow output.
 Buff finish aluminum pipe improves engine compartment appearance.

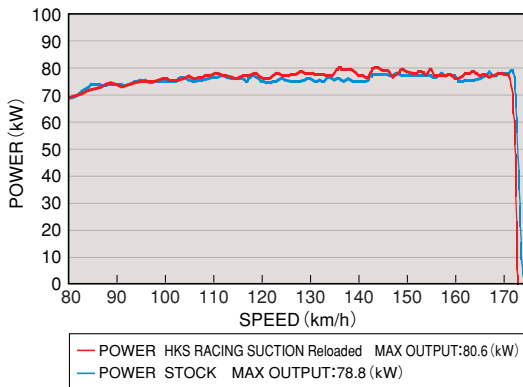
PERFORMANCE



JUKE(DBA-YF15) FEATURES

No power loss at mid speed range. Sporty intake sound uplifts drivers' sprits.
 Resetting is not required since this product is designed to have no negative affect on the airflow output.
 Buff finish aluminum pipe and red alumite engine head louver improve engine compartment appearance.

PERFORMANCE



Vehicle	Class	Model	Engine	Model Year	Filter Size	Code No.	Remarks
JUKE TURBO	CBA-	F15	MR16DDT	10/11~	φ 150-70	70020-AN017	
JUKE	DBA-	YF15	HR15DE	10/6~	φ 150-80	70020-AN018	

SUPER SQV IV

CBA-(N)F15(JUKE)

Features

Factory recirculation valve sound cannot be noticed, but once HKS Super SQV IV is installed, its unique & sharp high frequency sound demonstrates its existence.
 Super SQV IV is mounted right next to the engine, which significantly increase its presence and improve the engine compartment appearance.



Vehicle	Model	Engine	Model Year	Code No.	Remarks
JUKE	CBA-(N)F15	MR16DDT	10/11~	71008-AN028	

HIPERMAX S-Style X·L·C

ZVW40, ZVW41 (Prius α)/PE52, T(N)E52 (Elgrand)/(C)C25 (Serena)

HKS S-Style series providing beautiful low stance and stable driving performance are now available for popular vehicles such as Prius α, E52 Elgrand, etc.

NEW LINE-UP



for Extreme Low Form

Not just for lowering the vehicle height. "Super Low Stance Model" for reliable driving performance.

- Mono Tube
- 30way Adjustable Dampening
- Shock-body Length Adjustable
- Special Oil
- PNE Coating
- Short Coil Spring
- Pillow Upper Mount
- Inverted Strut Type
- Spring Rate Change Available
- Overhaul Available
- 1 Year 20,000km Warranty

※Pillow upper mounts are optional for certain applications.



[Prius α/ZVW4#]

This full-fledged suspension kit is recommended for those who changed cars from sports cars to this eco car and are not completely satisfied with its performance.

[Elgrand/E52]

Settings were done for low stance model to provide reliable driving performance. Spring rates may be seemed relatively high, but the ride won't be stiff at all.

[Serena/C25]

Harder settings were chosen for Serena since body modification is required to lower the vehicle height. With this damper, the vehicle body cannot be easily moved so it prevents tires from coming into contact with the vehicle body.



for Luxury & Almighty

The ultimate all-rounder for the low stance enthusiast.

- Mono Tube
- 30way Adjustable Dampening
- Shock-body Length Adjustable
- Special Oil
- PNE Coating
- M-Shaft
- Strengthened Rubber Upper Mounts
- Inverted Strut Type
- Spring Rate Change Available
- Overhaul Available
- 2 Years 40,000km Warranty



[Prius α/ZVW4#]

Reducing body roll and resetting soft ride quality of the stock model were implemented to provide better ride quality. Drivers can enjoy driving not only on streets but also winding roads when this damper is installed.



for Casual & Comfort

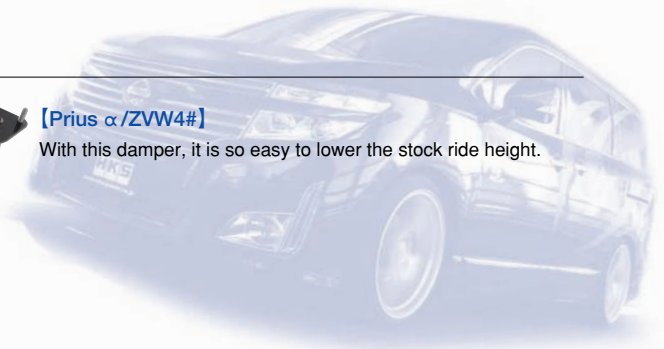
S-Style C is the basic model of new S-style suspension series. The simple structure provides beautiful style and great ride quality.

- Mono Tube
- Fixed Dampening Force
- Shock-body Length Adjustable
- Special Oil
- PNE Coating
- M-Shaft
- Strengthened Rubber Upper Mounts
- Inverted Strut Type
- Spring Rate Change Available
- Overhaul Available
- 2 Years 40,000km Warranty



[Prius α/ZVW4#]

With this damper, it is so easy to lower the stock ride height.



Vehicle	Model	Engine	Model Year	Series	Full Kit Spring Rate N/mm (kgf/mm)	Factory Setting of Vehicle Height		Code No.	Remarks
						FRONT	REAR		
PRIUS α	ZVW40, ZVW41	2ZR-FXE	11/5~	S-Style X	F=69 (7)/R=49 (5)	-46 (-17~-101)	-61 (-61~-99)	80120-AT217	Rear-Separate type, Compatible with all grades.
				S-Style L	F=39 (4)/R=34 (3.5)	-47 (-17~-69)	-42 (-25~-64)	80130-AT107	
				S-Style C	F=39 (4)/R=34 (3.5)	-47 (-17~-69)	-42 (-25~-64)	80110-AT110	
ELGRAND	PE52, TE52	VQ35DE, QR25DE	10/8~	S-Style X	F=118 (12)/R=118 (12)	-25 (-25~-90)	-48 (-48~-92)	80120-AN201	Rear-Separate type
SERENA	(C)C25	MR20DE	05/5~10/10	S-Style X	F=118 (12)/R=118 (12)	-57	-66	80120-AN202	Rear-Separate type

R35 DCT COOLER KIT

2011 MODEL COMPATIBLE

R35 (GT-R)

DCT Cooler Kit for NISSAN GT-R R35 compatible with 2011 Model.

From circuit driving to street, DCT Oil Cooler for GR6 transmission achieves firm shift feeling and protects clutch and transmission. It is considered not just for cooling performance but also for stability of oil temperature.

By reduced maximum oil temperature, it extends life cycle of oil and also reduces maximum water temperature.

Features

● Oil cooler core is located in front left fender to maximize cooling performance.

● The core has special air duct (FRP) for efficient cooling.

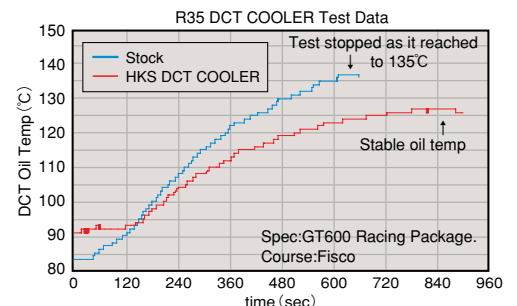
● The oil line is #10 size to reduce resistance of the line. It enables enough oil supply.

● The oil outlet attachment was specially designed for GR6. Stock heat exchanger and HKS Thermostat are integrated in the system that stabilize oil temperature in a short time even after cold starting of the engine. It reduces bad shift feeling when it is cold (same level as stock.).

● During test at Fuji Speedway Racing course by a professional driver, it enabled continuous laps at oil temperature 127°C. The water temperature was reduced by 5°C. (With stock system, oil temp. reached to 135°C and could not continue the test further.)



* Photo is for 2007 Model.



Vehicle	Model	Engine	Model Year	Core Size WxHxD / Rows	Location	Code No.	Remarks
GT-R	R35	VR38DETT	10/11~	200×220×48.5·15rows	In left fender	27002-AN004	<ul style="list-style-type: none"> • MT oil is required separately (for additional 2L). • Front bumper will be modified (Duct). • Washer pump harness needs to be extended (Required separately 0.5SQ 250mm x2). • Volume of washer fluid will be reduced to 1L from stock 1.5L. • Washer fluid volume sensor cannot be installed (No warning). • MT oil pump (stock) sound will be louder.

GT Supercharger Universal Type GTS8555

Light-weighted & Compact Centrifugal Supercharger GTS8555 is released.

Features

- Next generation supercharger "HKS GT SUPERCHARGER" is the centrifugal supercharger utilizing newly developed torque induction type traction drive system.
- The centrifugal supercharger is very light-weighted, and its discharge noise level is low.
- The traction drive can reduce the gear noise that usually comes from a conventional centrifugal supercharger. Also, it is able to increase the speed ratio so the size of the compressor can be reduced.
- The wedge effect torque induction type can obtain the pressing force proportional to the transmission torque and enhance the durability. Also, it enables high efficiency at low load range so the fuel efficiency can be improved to be an environmental friendly supercharger.



Product Parts

•GT SUPERCHARGER Assembly

- GT SUPERCHARGER Unit
- Oil Tank
- Hose Assy for TRACTION FLUID ×2
- Oilcooler
- TRACTION FLUID II
- Short Parts, etc.

*GT Supercharger Pulley must be purchased separately in order to use GT Supercharger Assembly.

Product Warranty

- The warranty is valid for 2 years after installing the product.

●GT SUPERCHARGER UNIVERSAL ASSY

Product	Code No.	Remarks
GTS8555	12002-AK006	Pulley is not included.

memo

Application

Compatibility of Premium Suction Kit (P/N 70018-AT005) and Racing Suction Reloaded (P/N70020-AT021) with PRIUS α (DAA-ZVW41W/2ZR-FXE 11/5~)

Compatibility of Premium Suction Kit (P/N 70018-AT005) and Racing Suction Reloaded (P/N70020-AT021) with PRIUS α (DAA-ZVW41W/2ZR-FXE 11/5~) was confirmed.

● PREMIUM SUCTION KIT

Vehicle	Classification	Model	Engine	Model Year	Code No.	Remarks
PRIUS α	DAA-	ZVW41W	2ZR-FXE	11/5~	70018-AT005	

● RACING SUCTION RELOADED

Vehicle	Classification	Model	Engine	Model Year	Size	Code No.	Remarks
PRIUS α	DAA-	ZVW41W	2ZR-FXE	11/5~	ϕ 150-60	70020-AT021	

Exhaust parts compatibilities with Subaru limited editions

The following table shows compatibilities of exhaust systems and metal catalyzer with Subaru limited editions (tS, Spec C, R205, etc.)

● MUFFLER COMPATIBILITY

Vehicle	Model	Transmission	Compatibility	Reason of Incompatibility	Code Number
Impreza WRX STI 4door tS (2.0L)	CBA-GVB	6MT	NO	Max torque in excess of standardised limits.	31026-AF017 (V) 31021-AF021 31021-AF022
Impreza WRX STI 4door tS (2.5L)	CBA-GVF	5AT	Yes		
Impreza WRX STI Spec C ('09/7 Model)	CBA-GRB	6MT	Yes		
Impreza WRX STI Spec C ('10/12 Model)	CBA-GRB	6MT	NO	Max torque in excess of standardised limits.	31021-AF013
Impreza WRX STI R205 (Not subjected to acceleration noise regulation)	CBA-GRB	6MT	Yes		31021-AF014
Impreza WRX STI R205 (Subjected to acceleration noise regulation)	CBA-GRB	6MT	NO	Max output & torque in excess of standardised limits.	31019-AF026 (V)
Impreza WRX STI A-Line Type S	CBA-GRF	5AT	Yes		
Exiga tuned by STI	DBA-YA5	5AT	Yes		31026-AF010 31026-AF011
Forester tS	CBA-SH9	5AT	NO	Compatibility is not confirmed, yet.	31026-AF012
Legacy Touring Wagon tS	DBA-BR9	6MT/5AT	Yes		31026-AF013 (V) 31026-AF014 (V) 31021-AF017 31021-AF019
Legacy B4 tS	DBA-BM9	6MT/5AT	Yes		31026-AF015 31026-AF016 31021-AF018 31021-AF020

● METAL CATALYZER COMPATIBILITY

Vehicle	Model	Transmission	Compatibility	Reason of Incompatibility	Code Number
Impreza WRX STI 4door tS (2.0L)	CBA-GVB	6MT	Yes		33005-AF014
Impreza WRX STI 4door tS (2.5L)	CBA-GVF	5AT	Yes		33005-AF016
Impreza WRX STI Spec C ('09/7 Model)	CBA-GRB	6MT	Yes		33005-AF014
Impreza WRX STI Spec C ('10/12 Model)	CBA-GRB	6MT	Yes		33005-AF014
Impreza WRX STI R205 (Not subjected to acceleration noise regulation)	CBA-GRB	6MT	NO	Max output in excess of standardised limits.	
Impreza WRX STI R205 (Subjected to acceleration noise regulation)	CBA-GRB	6MT	NO	Max output in excess of standardised limits.	
Impreza WRX STI A-Line Type S	CBA-GRF	5AT	Yes		33005-AF016
Exiga tuned by STI	DBA-YA5	5AT	Yes		33005-AF016
Forester tS	CBA-SH9	5AT	NO	Compatibility is not confirmed, yet.	
Legacy Touring Wagon tS	DBA-BR9	6MT/5AT	Yes		33005-AF017
Legacy B4 tS	DBA-BM9	6MT/5AT	Yes		33005-AF017

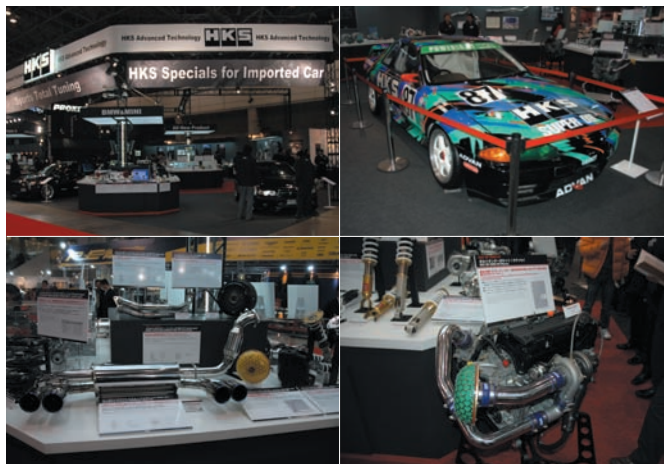
HKS - Tokyo Auto Salon 2012 with NAPAC

HKS is going to participate in Tokyo Auto Salon 2012 with NAPAC which will be held from January 13 to 15, 2012 at Makuhari Messe. Our participation in this show is in 4 years since 2008. For the past 4 years, environment surrounding the tuning has been greatly changed. We will exhibit new products and present set-up menus which cope with environmental changes.

We are looking forward to seeing you at HKS' booth at Tokyo Auto Salon 2012.

Schedule January 13 (Fri), 2012 - From 9:00 to 18:00
 (Media & Traders' Day, 13:00~Special Opening)
 January 14 (Sat), 2012 - From 9:00 to 18:00 (Public Open Day)
 January 15 (Sun), 2012 - From 9:00 to 17:00 (Public Open Day)

The show will be held at Makuhari Messe
 (International Convention Complex)



EVENT INFORMATION

SEMA SHOW EVENT REPORT



SEMA SHOW 2011 was held in Las Vegas Convention Center in Las Vegas, Nevada, U.S.A. from November 1 - 4, 2011. This show is held every year and is only open to aftermarket manufacturers, media, retailers and dealers. HKS' booth displayed new products and appealed our new strategy for the U.S. market after restructuring.

Displayed products were the following: NISSAN R35 GT800+ Racing Spec, HONDA S2000 Tuning Parts, GT SUPERCHARGER, EVC, DMR, GTII Turbine, etc. Also, HKS' HONDA S2000 with GT SUPERCHARGER was a distinguished figure in our booth. For R35 GT-R, all items from GT800+ Racing Spec, GT800 Full Turbine Kit, and the VR38 display engine with not yet released surge tank were on display. The symmetry turbo layout, which is one of features of GT800 Full Turbine Kit, received remarkable attention from visitors to the show. For S2000, newly developed Exhaust Manifold and Metal Catalyzer were on display. Also, V-CAM System for F20 was displayed as a reference exhibit. HKS' S2000 AP2 was decorated in oriental graphics design, and GT SUPERCHARGER, SUPER SOUND MASTER, HIPERMAXIII Sport, etc were installed. HKS brought this S2000 to the show to introduce how to enjoy this car as a new tuning target. GT SUPERCHARGER was surely in the spotlight, but the beautiful and unique pipe layout of SUPER SOUND MASTER got attention as well.

The number of visitors exceeded expectation during the show, even though the show was only for aftermarket manufacturers, media, retailers and dealers. HKS' booth was full of visitors till the show ended. Visitors were from across the world such as U.S., Canada, Europe, Asia, Russia, Australia, etc.

HKS will continue conducting aggressive activities in the U.S. market. We appreciate everyone for participation.



New Features for S-Style Series



Ride Quality Improvement

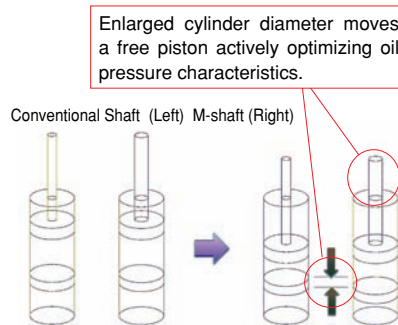
Newly released 「HIPERMAX S-Style」 series. 「C-Wagon」 was reputed for providing the stable driving performance and high ride quality. In addition to C-Wagon's advantages, new function was added for further performance improvement.

“M-shaft” is the one of new features. This is a special shaft used only for 「HIPERMAX M1」 which was our flag ship model. However, there may be some people who are wondering “what is the M1 anyway?” M1 is one of HKS Hipermx suspension series, and its applications were available for LEXUS IS-F, GS, IS, Crown Athlete 20#, R35 GT-R, etc. These cars are sporty but also luxury. M1 was developed to provide further stability on highways and flexibility on street, which was quite challenging. “M-shaft” was developed as a must item for this challenge.

“What is the M1 shaft?” It is a cylinder shaft with diameter larger than conventional cylinder shafts. It may sounds very simple, but diameter enlargement makes a considerable impact to ride quality and dampening force characteristics which controls driving stability. As the shaft diameter is enlarged, the oil inside the damper tries to move a free piston more and oil pressure characteristics are optimized. More practical way to explain the effect of M-shaft is that enlarged cylinder diameter can maintain the dampening even at subtle stroke range. (See the graph.) With valve setting, the ride quality can be improved furthermore.

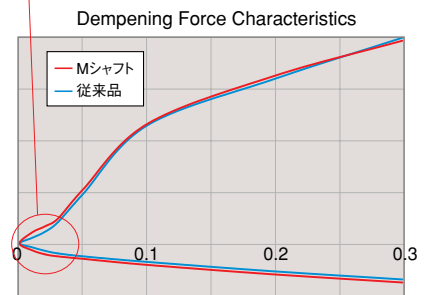
Utilizing the M-shaft to S-Style L and C, mainly on the rear side (*), dampens minivans' unique feeble vibration and provide higher rider quality.

* For $\phi 46$ Standard type of S-Style L/S-Style C. S-Style X does not utilize the M-shaft due to its ultra short stroke design.



HIPERMAX M1

Dampening even at subtle stroke range can be maintained. Utilizing the M-shaft to the rear side of S-Style L and C provides stable and high quality driving.



Durability Enhancement

Another new feature is 「PNE Coating」 which is a special coating method. Parts with PNE coating, it does not require much force to adjust the ride height because the surfaces of the PNE coated parts are very smooth. So, users don't have to worry about adjusting the ride height even if an extended time period has passed from last ride adjustment. PNE coating prevents parts from being seized by rust.

The photos on the right show the conditions of the non PNE coated and PNE coated parts after driving 18,000km in northern Japan to see the damage caused by anti-freeze and snowmelt solutions.

To maintain the performance of the dampening adjustable suspension, components must be prevented from getting rusted. Common galvanization (a photo on the right) cannot provide enough rust prevention. Samples shown in the photos on the right are extreme examples, but, plating on welded parts or adjusting screws tends to come off and/or get thinner so these parts easily get salt corrosion. Once these parts get salt corrosion, screws do not move at all so the ride adjustment has to be given up.

In contrast, PNE Coating's corrosion resistance is 5 times as much as galvanization. This coating can protect against rust, and its smooth surface requires less force to adjust the ride height. PNE coated parts do not get much salt corrosion. (See the photos on the right.) It looks very simple, but it does a competent job

PNE coating was adapted to S-Style X/L/C, D'NOB, and V-Sport to enhance their durability.

HKS will continue to provide more upgraded products. Look out for them!

PNE Coating (Left) Common galvanization (Right)
* Drove 18,000km in snow area.



2012 HKS BUSINESS CALENDAR

2012 HKS CALENDAR

1	SUN	MON	TUE	WEB	THU	FRI	SAT	2	SUN	MON	TUE	WEB	THU	FRI	SAT	3	SUN	MON	TUE	WEB	THU	FRI	SAT
1	2	3	4	5	6	7	5	6	7	8	9	10	11	4	5	6	7	8	9	10			
8	9	10	11	12	13	14	12	13	14	15	16	17	18	11	12	13	14	15	16	17			
15	16	17	18	19	20	21	19	20	21	22	23	24	25	18	19	20	21	22	23	24			
22	23	24	25	26	27	28	26	27	28	29				25	26	27	28	29	30	31			
29	30	31																					

4	SUN	MON	TUE	WEB	THU	FRI	SAT	5	SUN	MON	TUE	WEB	THU	FRI	SAT	6	SUN	MON	TUE	WEB	THU	FRI	SAT
1	2	3	4	5	6	7			1	2	3	4	5						1	2			
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9			
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16			
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23			
29	30						27	28	29	30	31			24	25	26	27	28	29	30			

7	SUN	MON	TUE	WEB	THU	FRI	SAT	8	SUN	MON	TUE	WEB	THU	FRI	SAT	9	SUN	MON	TUE	WEB	THU	FRI	SAT
1	2	3	4	5	6	7				1	2	3	4							1			
8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8			
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15			
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22			
29	30	31					26	27	28	29	30	31		23	24	25	26	27	28				
														30									

10	SUN	MON	TUE	WEB	THU	FRI	SAT	11	SUN	MON	TUE	WEB	THU	FRI	SAT	12	SUN	MON	TUE	WEB	THU	FRI	SAT
	1	2	3	4	5	6					1	2	3							1			
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8			
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														30	31								

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The applications were confirmed by November 2011.

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- HKS will not be responsible for any damage caused by improper installation and/or installing to other inapplicable vehicles.
- The product may not be compatible with vehicles even the model and/or engine type are the same as shown in the application chart.
- Data shown in this publication are based on the in-house data prepared under certain conditions.