HKS GT2 SUPERCHARGER

**Part No.: 12002-KK001**
**SCION FR-S / SUBARU BRZ**

# SERVICE MANUAL

**Installation must be done by a professional.**
Read this manual prior to the installation.
Always have access to this manual as well as a factory service manual.

※ Make sure the vehicle is applicable to this kit.

| | |
|---|---|
| PRODUCT NAME | PULLEY UPGRADE KIT |
| PURPOSE | AUTOMOBILE PARTS |
| PART NUMBER | 12002-KK001 |
| VEHICLE | 12001-KT004A<br>・SCION FR-S & SUBARU BRZ<br>Manual Transmission Vehicles 2012～2014/11<br>※Applicable vehicle's year depends on the ECU ID compatible with Flash Editor.<br>12001-KT004<br>・SCION FR-S & SUBARU BRZ 2012～ |
| ENGINE | FA20 |
| REMARKS | ○ HKS will not be responsible for any and all damages to the vehicle's engine or other supplemental devices through the use of this product.<br>○ This kit must be used in conjunction with the "GT2 S/C SYSTEM ECU PACKAGE FR-S (12001-KT004A)" or "GT2 S/C SYSTEM Pro FR-S (12001-KT004)".<br>○ This kit will be effective when using a high-octane fuel (for example E85)to a vehicle equipped with a 12001-KT004(A)<br>○ The data preset to Flash Editor is for manual transmission vehicles. The data is not compatible with automatic transmission vehicles. (12001-KT004A)<br>If you are using the Flash Editor, please refer to the necessary parts list on the next page.<br>○ Fuel and ignition settings are required. If neglected, the engine may be damaged.(12001-KT004) |

**REVISION OF MANUAL**

| Rev. Number | Date | Manual Number | Details |
|---|---|---|---|
| 3-3.01 | 2015/8 | E04215-A40030-00 | 1st Edition |
| 3-3.02 | 2023/6 | E04215-A40031-00 | 2nd Edition |
| | | | |

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## NOTICE

Thank you for purchasing PULLEY UPGRADE KIT. This manual assumes that you have and know how to use the tools and equipment necessary to safely perform service operations on your vehicle. This manual assumes that you are familiar with typical automotive systems and basic service and repair procedures. Do not attempt to carry out the operations shown in this manual unless these assumptions are correct. Always have access to a factory service manual. To avoid injury, follow the safety precautions contained in the factory service manual.

## ATTENTION

- This manual indicates items you need to pay attention to in order to install this product safely and lists precautions to avoid any possible damage and/or accidents.
- This product is an automobile part. Do not use for any other purposes.
- HKS will not be responsible for any damage caused by incorrect installation and/or use, or use after modification and/or dismantling of this product.
- This product was designed for installation on a specific factory vehicle.
- The specifications of this product are subject to change without notice.
- The instructions are subject to change without notice. Make sure to refer to the most recent instructions.

○ Data for F/E is created in state of mounting the parts marked in the following Table.

●：Absolutely necessary ○：If there is it, it is better ×：cannot use it together

| | Parts installed | | HKS S/C | |
|---|---|---|---|---|
| | Product Name | Code No. | RON91 | E85 |
| Intake Parts | GT2 S/C SYSTEM ZN6/ZC6 FA20 USA | 12001-KT004A | ● (Any one) | ● (Any one) |
| | GT2 S/C SYSTEM Pro FR-S | 12001-KT004 | | |
| | Pulley Up Grade Kit | 12002-KK001 | × | ● |
| | AIR INTAKE DUCT ZN6/ZC6 FA20 | 70999-AT002 | ○ | ○ |
| | Premium Suction ZN6/ZC6 FA20 | 70018-AT006 | × | × |
| | Super Air Filter TOYOTA type20 | 70017-AT120 | × | × |
| | RACING SUCTION ZN6/ZC6 86/BRZ FA20 | 70020-AT115 | × | × |
| | Dry Carbon Suction Kit ZN6/ZC6 FA20 | 70026-AT001 | × | × |

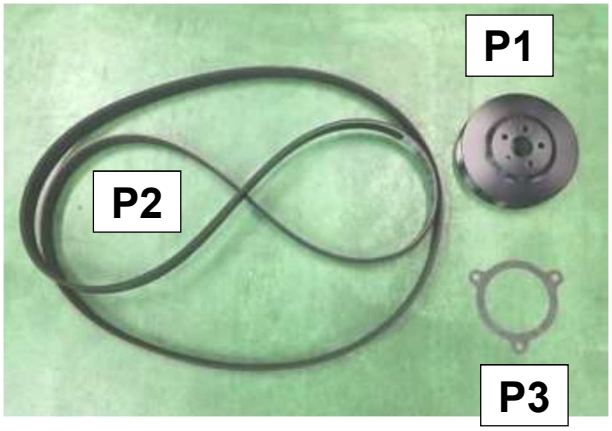
| | Parts installed | | HKS S/C | |
|---|---|---|---|---|
| | Product Name | Code No. | RON91 | E85 |
| Exhaust Parts Muffler | LEGAMAX Premium ZN6 (MAIN) | 32018-AT039 | ● (Any one) | ● (Any one) |
| | LEGAMAX Premium ZN6 (MAIN + CP) | 32018-AT040 | | |
| | LEGAMAX Sports S-Tail ZN6/ZC6 | 32018-AT041 | | |
| | LEGAMAX Sports S-Tail Ti ZN6/ZC6 | 32018-AT041V | | |
| | Hi-Power SPEC-LⅡ ZN6/ZC6 FA20 | 32016-AT123 | | |
| | Hi-Power Muffler SPEC-L Scion FR-S | 32016-BT001 | | |
| | Hi-Power Single Racing Version FR-S | 32016-BT002 | | |
| | Hi-Power Single Racing Version2 FR-S | 32016-BT003 | | |
| Exhaust Parts Manifold | SUPER MANIFOLD W/ CATA R-SPEC ZN6/ZC6 | 33005-AT006 | ● (Any one) | ● (Any one) |
| | SUS EXHAUST MANIFOLD Scion FR-S & SUS FRONT PIPE Scion FR-S | 33002-BT001 33004-BT002 | | |
| Cooling Parts | S-TYPE OIL COOLER KIT ZN6/ZC6 (for S/C) | 15004-AT011 | ○ | ○ |
| Spark Plug | SUPER FIRE RACING M50HL | 50003-M50HL | ● | ● |
| Fuel Parts | Deatsch Werks Fuel Injector 700cc ※Not HKS Product | 16U-02-0700-4 ※Not HKS Product | × | ● |
| | Deatsch Werks Fuel Pump ※Not HKS Product | 9-651-1010 ※Not HKS Product | × | ● |

# PARTS LIST

| No. | Part Name | QT | Description |
|---|---|---|---|
| 1 | Supercharger Pulley | 1 | 3.94inc(100mm)-6PK |
| 2 | V-ribbed Belt | 1 | 6PK2135 |
| 3 | Suction Pipe Gasket | 1 | |
| 4 | Service Manual | 1 | The book |

# 1. INSTALLATION OF SUPERCHARGER PULLEY

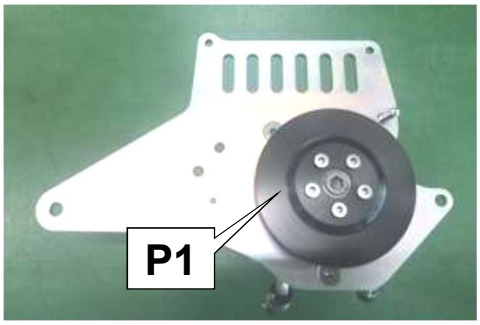
PARTS LIST




| No. | Part Name | QT |
|---|---|---|
| P1 | Supercharger Pulley | 1 |
| P2 | V-ribbed Belt | 1 |
| P3 | Suction Pipe Gasket | 1 |

(1) Remove the supercharger from the vehicle, to replace the Supercharger Pulley.

- P1 Supercharger Pulley x1




(2) In accordance with installation manual of the GT Supercharger System (12001-KT004(A)), install the supercharger to the vehicle.

- P2 V-ribbed Belt x1
- P3 Suction Pipe Gasket x1

# 2. INSTALLATION OF FLASH EDITOR (ONLY 12001-KT004A)

(1) If you use E85 Fuel, install the data referring to the installation manual attached to Flash Editor.



# 3. MAINTENANCE

○The V-ribbed Belt is a “wear and tear” part. Check if there are no cracks, fissures, or chippings at the inspection before driving.
Replace it if any cracks, fissures, or chippings are found. Never use any V-ribbed Belt other than the specified one. Using non-designated belts may cause noise from the V-ribbed Belt when starting the engine and/or at idle.
Use the part number below to order the V-ribbed Belt:

| PRODUCT NAME | PART No. |
|---|---|
| V-ribbed Belt 6PK2135 | 12002-KK004 |

# 4. IF BELT BREAKS

- Park the vehicle in a safe place to check if the car is still drivable. Check for any damage caused by the torn belt such as oil leak, coolant leak, damaged harness, and etc.
- Do not drive the vehicle if the belt is damaged since the water pump is operated by the belt.
- Move the vehicle to a safe place and replace the belt with a brand new one. Repair any problems that may have caused the belt to break.



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