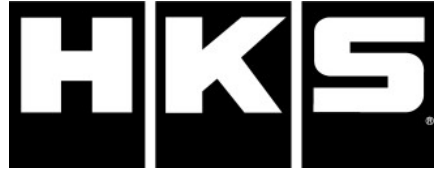


SUPER FIRE RACING COIL PRO

INSTRUCTION MANUAL



PRODUCT	SUPER FIRE RACING COIL PRO
USE	Automotive parts
PART No.	43005-AN001 43005-AN002 43005-AN003
MANUAL No.	E05341-N21010-00
APPLICATION	Nissan Skyline GT-R (BNR32,BCNR33,BNR34)
Engine type	RB26DETT
Model year	On August in 1989 ~ On December in 1994(BNR32) On January in 1995 ~ On December in 1998(BCNR33) On January in 1999 ~ On August in 2002(BNR34)
REMARKS	<p>※This kit was designed on a JDM vehicle and has not yet been tested in other markets.</p> <ul style="list-style-type: none"> • Use of HKS spark plug is recommended • This kit requires removal of engine cover. Please make sure that ignition coils are protected from water.

Ver.	Date	Details
3-1.01	2020/7	1st Edition

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NOTICE

This manual assumes that you have and know 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 repair manual. To avoid injury, follow the safety precautions contained in the factory repair manual.

- This manual indicates items that require careful attention in order to install this product safely, and lists precautions to avoid any possible damage and/or accidents.
- This product was designed for and tested on a factory-spec vehicle or a vehicle equipped with other HKS products. Performance and/or safety cannot be guaranteed if this product is installed onto other inapplicable vehicles.
- HKS will not be held responsible for any damage caused by incorrect installation, mishandling, or for damages caused by modifications to or dismantling of this product.
- This specifications of this product are subject to change without notice.
- This manual is subject to be revised without notice
- This product is designed use in Japan only. It must not be used in any other country.

SAFETY INSTRUCTIONS



Warning

Indicates risk of serious injury and/or possible death.



Caution

Indicates risk of serious injury or property damage.

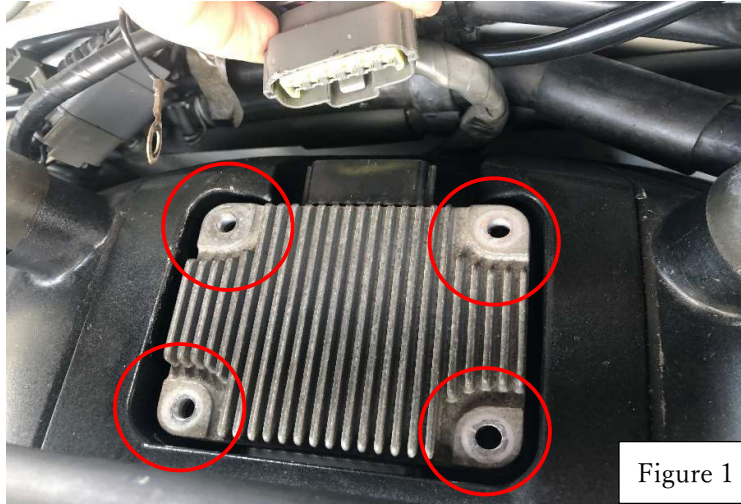
Parts List

No.	Description	Qt	Remarks
1	Ignition coil	6	
2	Ignition coil harness	1	Special parts
3	Coil bracket	1	
4	Coil spacer	6	Red Anodized
5	O-RING	6	S26(small)
6	O-RING	6	S36(large)
7	Hex prop	7	
8	Bracket spacer	6	
9	Cap bolt	7	
10	Flange bolt	6	
11	M5 bolt with Washer	1	
12	Washer plain	1	
13	Tie wrap	3	
14	Instruction manual	1	

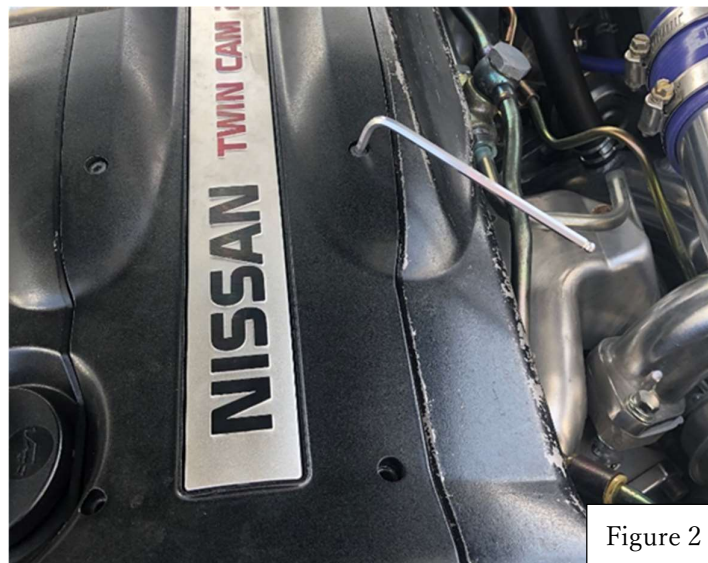
1. Installation

Be sure to perform the work according to the service manual and the instructions issued by the manufacturer.

- (1) Disconnect the negative cable of the battery.
- (2) Remove 4 bolts and disconnect the Power Transistor connector.
(※BNR32, BCNR33)(Figure 1)



- (3) Disconnect the Engine cover. (Figure 2)



(4) Disconnect the Power connector. (Figure 3, Figure 4, Figure 5)

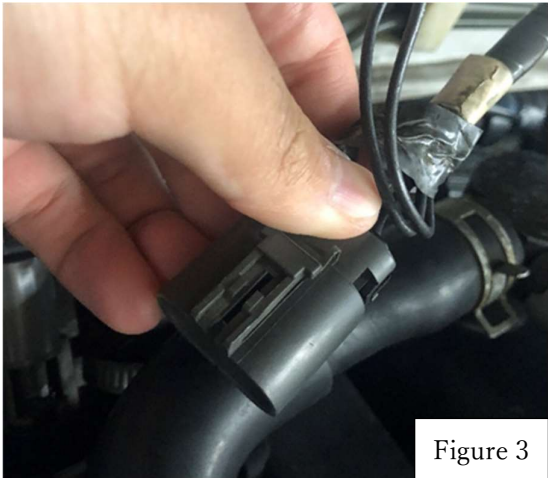


Figure 3

BNR32 Power connector

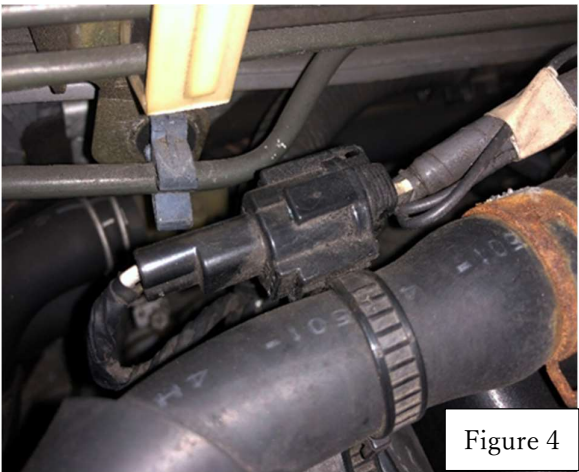


Figure 4

BCNR33 Power connector



Figure 5

BNR34 Power connector

(5) Disconnect the six Ignition coil connectors. (Figure 6)

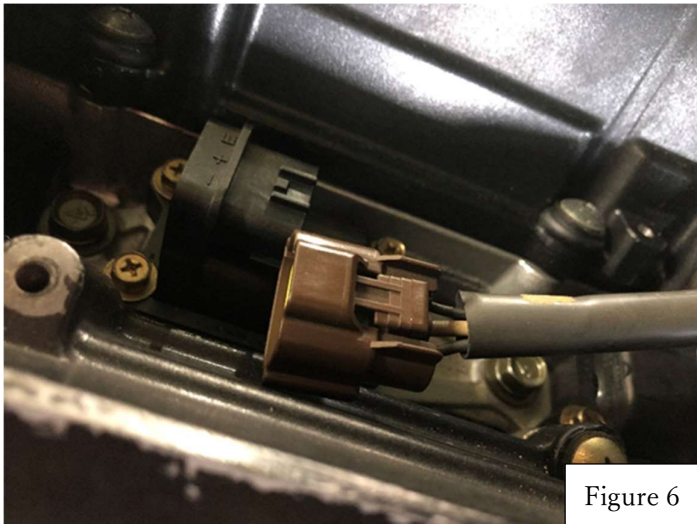


Figure 6

(6) Apply silicone grease and attach two types O-RINGS to Coil Spacer. (Figure 7)



(Above on the top - before installation of O-RING, bottom - after installation)



Caution

- O-RING is sure to install. To prevent ingress of water and dust. Installation without silicone grease may cause O-ring to overheat and be damaged

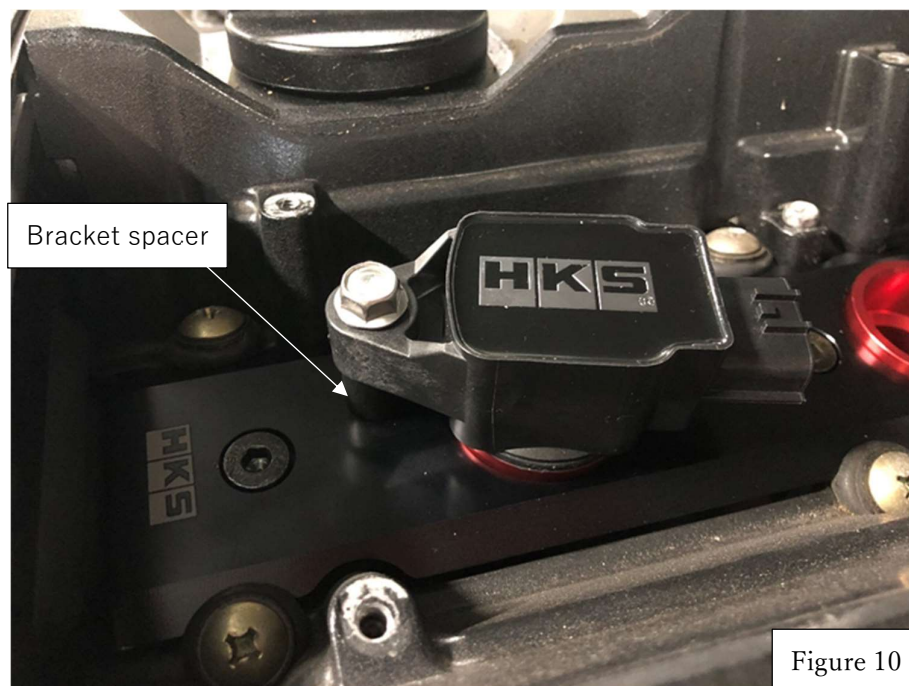
(7) Loosen a bolt holding stock bracket that fixates stock coils, the remove the stock coils and bracket. Insert a Hex Prop(Tightening torque $11.3 \pm 1.2\text{N} \cdot \text{m}$), Set Coil spacer on plug hole. (Figure 8)



- (8) Set Coil bracket on Coil spacer. Fix the Coil bracket to the Hex prop using the Cap bolt.
(Tightening torque $11.3 \pm 1.2 \text{N} \cdot \text{m}$) (Figure 9)



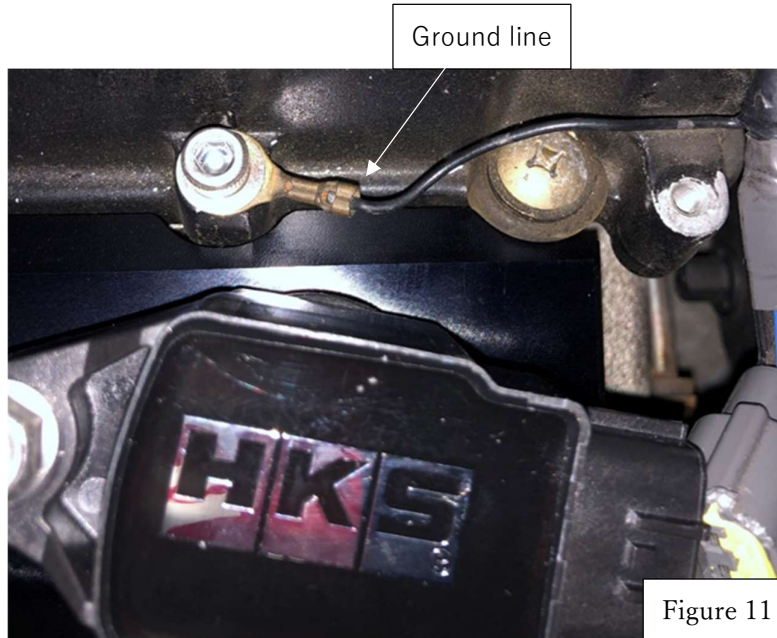
- (9) Insert ignition coil.
Fix the Bracket spacer and ignition coil by the Flange bolt.
(Tightening torque $7.0 \pm 0.7 \text{N} \cdot \text{m}$) (Figure 10)



(10) Install Ignition coil connectors, Power connector, Power Transistor connector in order by Ignition coil harness. After that attach ground from stock harness to the engine using provided Washer plain and M5 bolt with Washer.

(Tightening torque $2.7 \pm 0.3\text{N} \cdot \text{m}$) (Figure 11)

(※Ignition coil harness connector short part is bulkhead side. BNR34 doesn't have a power transistor.)



(11) Make sure that all connectors are fully inserted and harness is not tangled.

(12) Inspect installation for other problems. Reconnect the negative cable onto the battery.

(13) Perform ECU Settings.

(※Performs settings on the vehicle only at professional workshops. Without settings, ignition coils are unable to function properly and may cause unstable idling, misfire and engine failure.)



Caution

- Perform a setting of dwell time at a professional workshop (in F-Con V Pro Power Writer refer to Main Close Angle Time in Ignition Control Map). Make sure that the calibration is done properly or the engine may misfire.
- Do not use dwell time over the recommended values. This may lead to ignition coil failure.

2. Dwell Time

If the IG signal voltage has an adjusting function, set it to 5V.

Dwell Time

V	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0
msec	7.8	7.5	7.0	6.8	6.5	6.1	5.2	4.6	4.1	3.9	3.6	3.4	3.2	3.1	2.9	2.8	2.6

The unit of the above dwell time is μs , so enter 1000 times when inputting the F-CON.

Main Close Angle Time Trim

8.0V	9.0V	10.0V	11.0V	12.0V	13.0V	14.0V	15.0V	16.0V
100	95	81	45	14	0	-11	-19	-27

Ignition control voltage from RB26 genuine coil 12V to 5V Please change.

Main Close Angle Time Trim

(rotations per minute) Uniform 3600 μs

3. Check the following before starting the engine

Description	Check
Make sure ignition coils are plugged.	
Make sure connectors and harnesses are routed and connected properly.	
Make sure bracket is fixed.	
Make sure all installed components and harnesses do not come in contact with other parts.	
Make sure two O-RINGS are attached.	
Make sure there are no tools in the engine room.	
Make sure reconnect the negative cable onto the battery.	
Make sure that all bolts and nuts are tightened.	



Caution

- Bad connection of connectors and harnesses routing may result in a check engine lamp.
- Use without setting may lead to engine damage/failure.

4. Check the following after starting the engine

Description	Check
Make sure all installed components and harnesses do not come in contact with other parts.	
Make sure harness is not strongly twisted.	
Make sure are not made interference sounds.	



Caution

- Parts coming in contact with each other may lead to wire damage.

5. Troubleshooting

○If this product is not performing properly check all wiring and connections, referring to the following before contacting your dealer.

Symptoms	Cause	Countermeasure
<ul style="list-style-type: none"> • Engine does not start • Unstable idling 	Plug is not inserted properly. Coil is not inserted properly. Harness is not connected. Plug is passed its lifespan. Grounding Issue.	<ul style="list-style-type: none"> • Make sure connector • Make sure plug and ignition coil • Check engine ground.
Misfire under high rpm, heavy load.	Plug is not inserted properly. Coil is not inserted properly. Plug is passed its lifespan.	<ul style="list-style-type: none"> • Make sure connector • Make sure plug and ignition coil

If the above guidelines doesn't solve the problem, please contact a repair shop/dealer near you.

6. Operation



Warning

· Do not use this product if unusual occurrences should occur.

Consult with your HKS Authorized immediately.

- In case of accident or other issue, do not try to solve the problem and contact professional shop.
- If you notice any issues when driving such as unusual noises, sounds, scents or vibrations consult with user manual.

7. After-sales service

For inquiries about this product, please contact a professional dealer or the store where you purchased the product.

Contractor	
Phone number	
Person in charge name	
Customer name	



HKS Co., Ltd

7181 Kitayama, Fujinomiya,
Shizuoka 418-0192, JAPAN

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