Flash Editor

HKS

INSTRUCTION MANUAL

(Application: TOYOTA ZN8 / SUBARU ZD8)

E84511-T25060-00
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1. Introduction

To use the Flash Editor for TOYOTA ZN8 / SUBARU ZD8, the following items are required:
- **Windows-based PC (Windows11)**
- **USB Cable (USB[A]Male - USB[micro-B]Male)**

Thank you for your purchase of Flash Editor.
- This manual indicates items that require attention in order to install this product safely and lists precautions to avoid any possible damage and/or accidents.
- This product was designed based on installation onto a specific factory vehicle or a vehicle using other HKS products. The performance and/or safety cannot be guaranteed if this product was installed onto other inapplicable vehicles.
- Contact HKS dealer for any lost parts, replacement, and this manual.
- HKS will not be responsible for any damage caused by incorrect installation and/or use of this product.
- This product works only with a vehicle with DC12V negative ground.
- The specifications of this product are subject to be changed without notice.
- This manual is subject to be revised without notice.

Product	Flash Editor	
Use	Reflashing a factory standard ECU	
Application		Code Number
	TOYOTA GR86[ZN8]	42015-AT105
	SUBARU BRZ [ZD8]	

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3. Safety Precautions

The following precautions for use of this product are to prevent possible accidents and/or injuries and for proper use.

⚠ WARNING : Indicates risk of serious injury and/or possible death.

⚠ CAUTION : Indicates risk of serious injury or property damage.

⚠ WARNING

- Make sure to work on the vehicle in a well-ventilated area to prevent possible explosion or a fire.
- Make sure to hold connectors when removing them to avoid possible damage to other electronics parts and/or a fire caused by disconnection or a short circuit.
- Stop using the product if any unusual situation is noticed. Consult the dealer immediately. Failure to do so may cause an electric shock, burn out, or damage to the vehicle.
- Make sure to work on the vehicle in area where a vehicle can be parked safely.
- Do not remove the Flash Editor before writing EUC is completed. If neglected, the engine cannot be started.

⚠ CAUTION

- Do not install this product by yourself.
- Do not modify, disassemble, and/or remodel the product and attached parts to avoid any damage to the unit and/or harness.
- To avoid possible malfunction and damage to the engine, install the unit away from excessive heat or water/moisture.
- Make sure all connections and wiring are not disconnected, short circuited, or incorrect. If so, it may cause an electric shock, burn out, or damage to the vehicle.
- If any unusual noise, scents, and/or vibrations are noticed, consult the dealer immediately.
- If any unusual noises, scents, and/or vibrations are noticed while driving, please refer to a factory repair manual.
- Confirm the following before reading the ECU data with this product:
  - The ECU is a factory standard.
  - Data on the ECU is not modified.
  (Data is not modified with other ECU reflash tool.)
  If the ECU data was changed by a re-flash tool, this product may not be able to function.
  - Do not install any aftermarket part such as HKS' VAC to the CAN communication line.
  If neglected, data cannot be written on the ECU.
- Daily maintenance on the vehicle is the responsibility of the owner.
- To use the Flash Editor on a vehicle with the NA engine, the Flash Editor must be initialized for the NA engine before staring the engine.
  - Without initializing the data, the preset data for a vehicle with HKS Supercharger or Turbocharger are used; it may result in the engine damage.
- To use the Flash Editor on a vehicle with HKS Supercharger or Turbocharger, the Flash Editor must be initialized for the supercharged engine or turbocharged engine before starting the engine.
  - Without initializing the data, the stock ECU data are used; it may result in the engine damage.

4. Product Features

- This product is a tool to reflash a factory standard ECU through the OBDII connector and customize the data.
- The following 2 types of data are available:

【Initialized Data for NA Engine】

PHASE 1 : Data for a factory vehicle.
PHASE 2 : Vehicle equipped with HKS SUPER MANIFOLD with CATALYZER GT-SPEC for ZN8/ZD8

【Initialized Data for Supercharged Engine】

HKS S/C DATA1 and HKS S/C DATA2 are identical data.
HKS Supercharger Kit(12001-AT013)+Φ43 restrictor(12002-AT002)

【Initialized Data for Turbocharged Engine】

HKS T/C DATA1 and HKS T/C DATA2 are identical data.
HKS Turbocharger Kit(11001-AT011)+Pressure Sensor Kit(45999-AT001)

- Please check the HKS website for compatible parts.

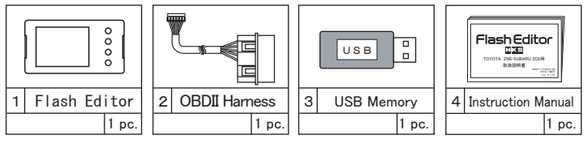
⚠ CAUTION

- When using PHASE data with vehicle equipped with any part other than listed with a black circle or white circle, it may cause damage to vehicles.
- When using PHASE data with a vehicle equipped with any part other than listed with a black circle or white circle, resetting of the vehicle by PowerWriter is required.

- Other setting data can be written on the Flash Editor using PowerWriter.
(Only available through HKS PowerWriter shops.)
- One product can reflash data only for one vehicle. To reflash data of another vehicle, the current data must be restored before using the product for another vehicle.

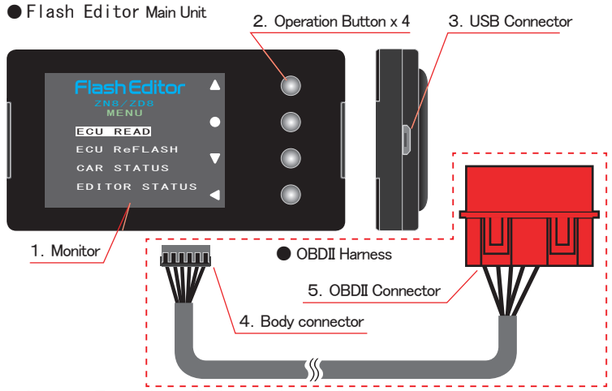
5. Parts List

- Code Number : 42015-AT105
  Product : Flash Editor



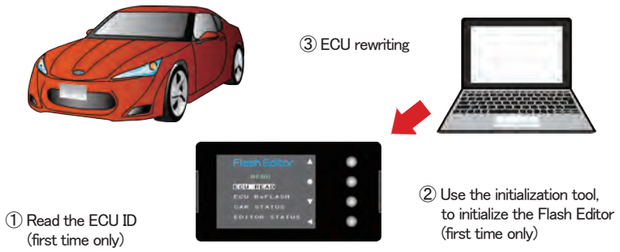
6. Names and Function

- Flash Editor Main Unit



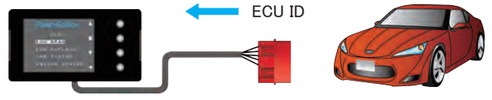
1. Monitor : To monitor reflash operation conditions.
2. Operation Button x 4 : From above [▲: Up][●: Select][▼: Down][◀: Return]
3. USB Connector : Connect to a PC (To use the Initializing tool and PowerWriter)
4. Body connector : Connect a harness from the main unit and the OBDII Harness.
5. OBDII Connector : Connect the Flash Editor to a vehicle.

7. Reflash Operation

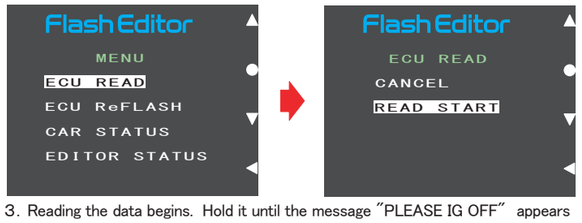


8. Operation Screen

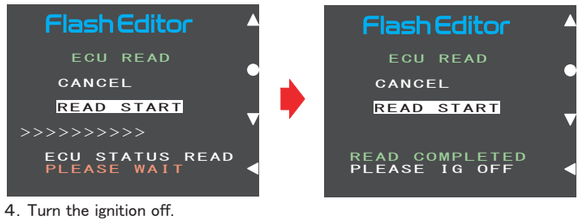
① Read the ECU ID (first time only)



1. Connect the Flash Editor to the OBDII connector from the vehicle. Turn the ignition on. Leave it for 10 seconds or longer. (Do not start the engine.)
2. Select [ECU READ] from the menu; then, select [READ START].



3. Reading the data begins. Hold it until the message "PLEASE IG OFF" appears on the screen.



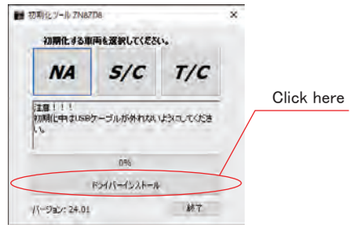
4. Turn the ignition off.

② Use the initialization tool, to initialize the Flash Editor (first time only)

1. Using the personal computer, to perform has entered the USB memory of bundled "initialization tool" (ZN6ZC6InitialaizetionTool.exe).



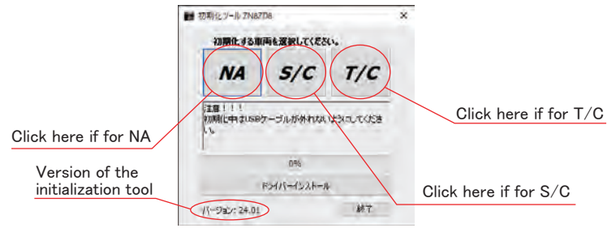
2. Click on the "Driver installation procedure" button of the initialization tool, to install the driver according to the displayed procedure.



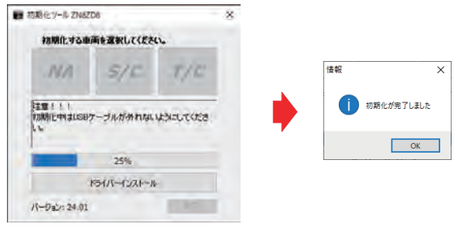
3. Use a USB cable (sold separately) to connect the Flash Editor to your computer.



4. Click the button there was "type" in a vehicle to be used (NA or S/C or T/C), to start the "initialization".



5. When the display indicates "initialization was completed", remove the Flash Editor from a personal computer.

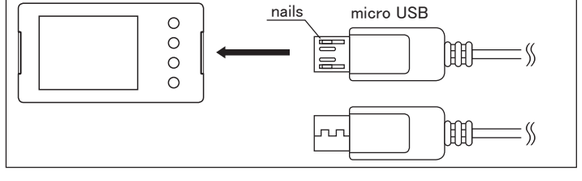


⚠ CAUTION

- To use this product with the NA engine, the product must be initialized for the NA engine.
- To use this product with the supercharged engine, the product must be initialized for the supercharged engine.

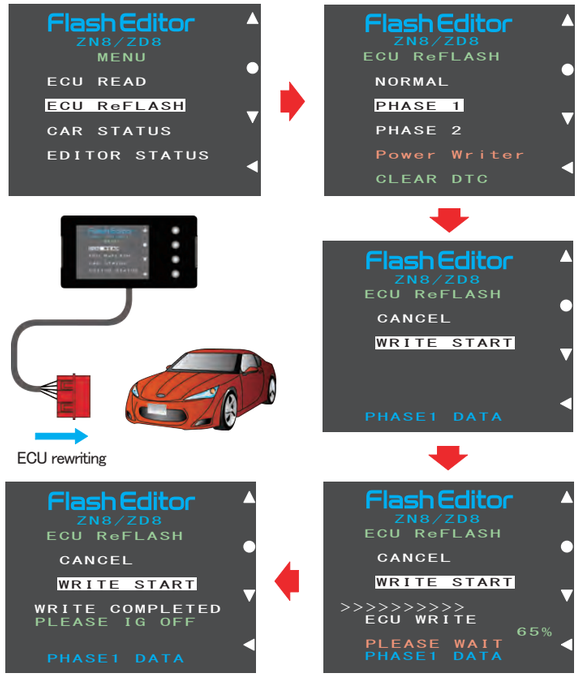
ADVICE :

※ micro USB connector, please insert to come nails in front.



③ **ECU rewriting**

1. Connect the Flash Editor to the OBDII connector from the vehicle. Turn the ignition on. Leave it for 10 seconds or longer. (Do not start the engine.)
2. Select "ECU ReFLASH" from the menu. After selecting "Custom Data" or "NORMAL Data" for the NA engine, select "WRITE START".



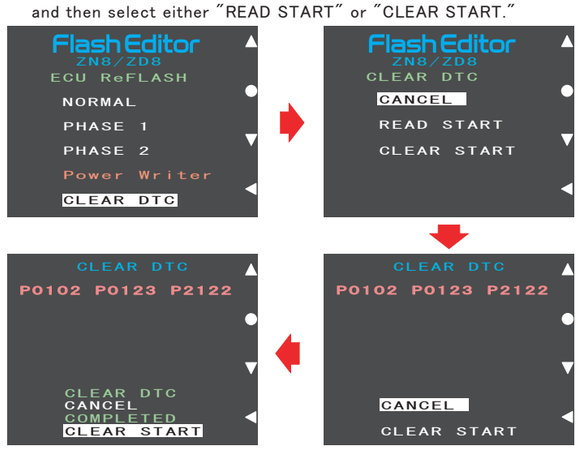
3. When "PLEASE IG OFF" appears, data writing is completed.
4. Turn off the ignition and remove the Flash Editor from the vehicle.
5. Turn the ignition on. Leave it for 5 seconds or longer. (Do not start the engine.)
6. Start the engine. Make sure the engine idles in a normal way.

- When initializing the Flash Editor for the supercharged engine or turbocharged engine, to prevent NORMAL data writing by mistake, "NORMAL" cannot be selected as data to write.
- 「Power Writer」cannot be selected for Reflash Data under initial condition. Custom data must be added by a Power Writer shop to select 「Power Writer」.

【 CLEAR DTC 】

You can view fault codes related to the ECU.

1. After connecting the Flash Editor to the vehicle's OBD Ⅱ connector, turn the ignition ON.
2. From the MENU screen, select "ECU ReFLASH," then select "CLEAR DTC," and then select either "READ START" or "CLEAR START."



3. Loading will begin, and once the screen updates, loading is complete.
4. After loading is complete, select "CLEAR START," and when "CLEAR DTC COMPLETED" is displayed, the DTC erasure is complete.

⚠ CAUTION

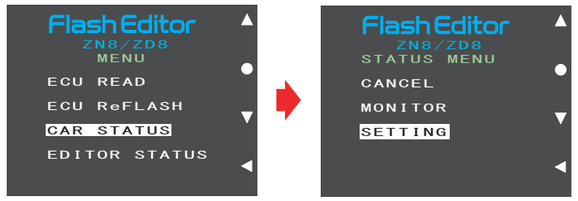
- Do not disconnect the Flash Editor from the OBDII connector from the vehicle before the message "PLEASE IG OFF" appears on the screen during writing the ECU data.
  Failure to do so causes damage to the ECU; the damaged ECU must be replaced with a new one to drive the vehicle.
- When you connect or disconnect the connector, please go Always hold the connector.
  Pulling the cable there is a risk of disconnection.
- After reflashing, remove the Flash Editor main unit from the OBDII connector. Failure to do so may cause a battery to run out.

9. Other Functions

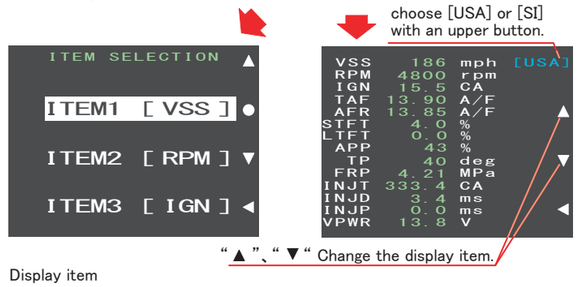
【 CAR STATUS 】

Vehicle's information appears on the screen.

1. Select [CAR STATUS] from the menu.



2. To display vehicle information from the STATUS MENU screen, select [MONITOR]. To configure the display items, select [SETTING].



Display item

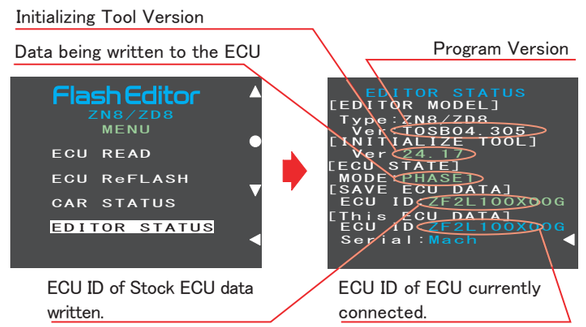
No.	Item	Description	Unit		Remarks
			[USA]	[SI]	
1	SPD	Speed	mph	km/h	
2	REV	Engine RPM	rpm	rpm	
3	WAT	Water Temperature	°F	℃	
4	IGN	Ignition Timing	CA	CA	
5	CORR	A/F Correction Value	%	%	
6	LEAR	A/F Learning Value	%	%	
7	APS	Accelerator Position	%	%	
8	THR	Throttle Position	%	%	
9	INJT	Fuel injection timing	CA	CA	Direct
10	FPrs	Target Fuel Pressure	MPa	MPa	Direct
11	INJD	Injection Time	ms	ms	Direct
12	INJP	Injection Time	ms	ms	Port
13	IN_M	Intake Manifold Pressure	PSI	X100kPa	
14	AIR	Intake Air Volume	g/s	g/s	
15	IN_T	Intake Air Temperature	°F	℃	
16	EX_T	Exhaust Temperature	°F	℃	
17	A/F	Target Air-Fuel Ratio	A/F	A/F	
18	A/FR	The Actual Air-Fuel Ratio	A/F	A/F	
19	KN_E	Learning knock correction value	CA	CA	
20	KN_C	Knock control value	CA	CA	
21	INVT	Intake VVT	°FR	°FR	
22	EXVT	Exhaust VVT	°FR	°FR	
23	BATT	Battery Voltage	V	V	

2. Press the return button to return to the menu.

【 EDITOR STATUS 】

Flash Editor's status appears on the screen.

1. Flash Editor's status appears on the screen.



2. Press the return button to return to the menu.

ADVICE:

- "ECU ID" and "Serial" appear on [SAVE ECU DATA] of [EDITOR STATUS] by executing [ECU READ].
  When "※" appears, the status has not been read, yet.
  Execute [ECU READ].
  (If the ignition is off, the item of [This ECU DATA] is "※".)
- The status of the ECU (Data being written) on [ECU STATE] of [EDITOR STATUS].
  (NORMAL, PHASE 1・2, or HKS S/C DATA 1・2, or HKS T/C DATA 1・2)
  After executing [ECU ReFLASH], the data on the ECU are correct on this screen.

10. Troubleshooting

When the product does not function properly, check the following to see if there is any measure against the symptom appeared.

Symptom	Cause	Measure
Warning light comes on after ECU reflash.	Vehicle's communication system is stopped during reflash.	Clear "DTC" by following procedure : MENU → ECU ReFLASH → CLEAR DTC → CLEAR START.
Data cannot be written on the ECU.	If any aftermarket parts such as a VAC on the CAN communication line.	Uninstall the aftermarket parts. Retry the data writing.

11. Maintenance

⚠ WARNING

- Do not use this product if unusual occurrences should occur to avoid risk of electrical shock and/or fire. Consult with the dealer immediately.

⚠ CAUTION

- Do not try to repair the product yourself. Consult with your dealer.
- If any unusual noises, scents, and/or vibrations are noticed while driving, please refer to a factory repair manual.

12. Repair Service

For questions about this product, any optional, lost, defective and/or damaged parts, please contact your dealer.

13. For Subsequent Owners

If this product is passed on to a new owner, make sure this instruction manual is included along with the product.

14. Product Specifications

- Operating Voltage ····· DC10 – 16V
- Operating Temperature ····· -20 – 60℃
- Outer Size ····· 48.0 x 90.0 x 17.0mm

15. Revision of Manual

Rev. Number	Date	Details
3-1.01	2026/4	1st Edition