



EcoFlash

User Manual

V1.0

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Note: If you are not sure about any specific details, please contact us at <u>info@ecotrons.com</u>.

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1 Installation of EcoFlash

1.1 Download the EcoFlash Software

1) Download the EcoFlash Reprogramming software from the website:

http://www.ecotrons.com/support/



Click the "EcoFlash v1.X", and then download the software "EcoFlash v1.x-setup.exe"

1.2 Install EcoFlash

1) Unzip the file "EcoFlashV1.X.zip" and Double-click the file "EcoFlash v1.X-setup.exe" to install the EcoFlash:

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2) Click "Next"



3) Click "Next" and choose the path to install EcoFlash

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nstallation Folder Where would you like EcoBlash to be installed?	
The software will be installed in the folder listed below. To select new path, or click Change to browse for an existing folder.	a different location, either type in a
Install EcoFlash to:	
C:\Ecotrons\EcoFlash	C <u>h</u> ange
Space required: 4.88 MB	
Space available on selected drive: 47.37 GB	
	1 and 1

4) Click "Next"

Shortcut Folder	
Where would you like the shortcuts to b	e installed?
The shortcut icons will be created in the folder, you can either type a new name,	folder indicated below. If you don't want to use the defaul or select an existing folder from the list.
Shortcut Folder:	
Install shortcuts for current user only	
 Install shortcuts for current user only Make shortcuts available to all users 	8
 Install shortcuts for current user only Make shortcuts available to all users 	8
 Install shortcuts for current user only Make shortcuts available to all users 	8



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coriash set	up	Balling Tons	
Ready to Insta	all		
You are now rea	ady to install EcoFlash 1.1.1.1		
The installer nov	w has enough information to insta	Il EcoFlash on your computer.	
The following se	attings will be used:		
Install folder:	C:\Ecotrons\EcoFlash		
Shortcut folder:	Ecotrons\EcoFlash		
Please click Ne	at to proceed with the installation.		
	< <u>B</u> ac	ck <u>N</u> ext >	Cancel

6) Click "Next" and wait for installing

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7) Click "Finish"



The installation of "EcoFlash" is successful.

http://www.ecotrons.com



2 Program ECU

2.1 Start EcoFlash software

Double-click the ICON "EcoFlash" on the desktop to start the EcoFlash:



It will pop the EcoFlash window:





2.2 Flash "S19" file to ECU

1) Connect your laptop with a USB or RS232 or a CAN device to ECU harness.



RS232 cable

USB adaptor

Note: Make sure the connection between laptop and USB adaptor (Serial communication cable) is **FULLY** plugged in.

2) Select USB or COM or CAN.

Settings Communication M COM Settings	ode COM •	Flash Open File Flash Cancel
Port Num Baud Rate	USB CAN 115200 -	How to flash the S19/Mot/Hex file? Step 1: Select and set the communication mode! Step 2: Load the S19/Mot/Hex file,click <open file=""> Step 3: Click <flash>! Step 4: Power off the ECU and then power on!</flash></open>
Open Device	Close Device	

If you select use CAN device to flash, the default selection is matched to flash to ECU. Please choose the "ALM" manually if you flash to ALM.



Communication Mode CAN	Flash Open File Flash Cancel	
Device Type FeakCAIV Device Index 0 Channel No. 1 Baud Rate 500kbs	How to flash the S19/Mot/Hex file? Step 1: Select and set the communication mode! Step 2: Load the S19/Mot/Hex file,click <open file=""> Step 3: Click <flash>!</flash></open>	
C ALM C ECU	Step 4: Power on the ECO and then power on:	

Select the device you are using. There are four options: EcotronsCAN, Kvaser, ECO-USBCAN and PeakCAN.

Communication Mode CAN	Flash Open File Flash Cance	1
Device Type PeakCAN		
Device Index EcotronsCAN Kvaser Channel No. ECO-USBCAN Baud Rate PeakCAN SUUKOS	How to flash the S19/Mot/Hex file? Step 1: Select and set the communication mode! Step 2: Load the S19/Mot/Hex file,click <open file:<br="">Step 3: Click <flash>! Step 4: Power off the ECU and then power on!</flash></open>	>
Open Device		

3) Click "Open Device" button to open the device.



Communication Mode COM COM Settings	I I I I I I I I I I I I I I I I I I I	Flash	Cancel
Baud Rate 1152	How to flash th Step 1: Select a Step 2: Load th Step 3: Click < Step 4: Power	ne S19/Mot/Hex file? and set the communicat he S19/Mot/Hex file,cli Flash>! off the ECU and then p	tion mode! ck <open file=""> power on!</open>
Open Device Close	Device		

Note: ① You can click "Find the ECU" to check whether the "USB" or "RS232" is available. (Make sure the ECU is powered ON)

Settings Communication Mo - COM Settings —	ode COM 🔹	Flash Open File	Flash	Cancel
Port Num Baud Rate	COM1 • 115200 • Find The ECU	How to flash the S1 Step 1: Select and s Step 2: Load the S1 Step 3: Click <flash Step 4: Power off th</flash 	9/Mot/Hex file? set the communicat 19/Mot/Hex file,cli h>! ne ECU and then p	ion mode! ck <open file=""> power on!</open>
Open Device	Close Device			

Power on ECU (Key ON) first, then click "Find the ECU":



Communication Mode COM	Flash Open File Flash Cancel
Baud Rate 115200	How to flash the S19/Mot/Hex file? Step 1: Select and set the communication mode! Step 2: Load the S19/Mot/Hex file,click <open file=""> Step 3: Click <flash>! Step 4: Power off the ECU and then power on! EcoFlash find the ECU successfully!</flash></open>
Open Device Open Device Close Device	

If the USB or RS232 is connected well, it will find the ECU and it will prompt information "EcoFlash find the ECU successfully!", then you can do the below steps to flash S19 to ECU.

Otherwise, you need check the connection or whether other programs have taken up the Serial communication cable.

4) Click "Open file" button to open the S19 file.

Settings		Flash		
COM Settings -		Open File	Flash	Cancel
Port Num Baud Rate	COM3 115200 Find The ECU	How to flash the S1 Step 1: Select and s Step 2: Load the S2 Step 3: Click <flas Step 4: Power off th EcoElash find the E</flas 	9/Mot/Hex file? set the communicati 19/Mot/Hex file,clic h>! he ECU and then p CU successfully!	ion mode! ck <open file=""> ower on!</open>
Open Device Open Device	Close Device			-



5) Find the "S19" / "Mot" / "Hex" file, and then click "Open".

Open		✓ 4y Search	h 519	<u>×</u>
Organize 🔻 New fo	der		8≡ ▼ [1 0
🔆 Favorites	Name	Date modified	Туре	Siz
Nesktop	S33_H11_149_Cr17_E4.s19	2017/12/11 10:14	S19 File	
Downloads				
incent ruces				
词 Libraries				
Documents				
E Pictures				
Videos				
Local Disk (C:)				
Local Disk (D:)		ш		
and the second				
File	<u>n</u> ame:)	•

6) Click "Flash" to flash S19 file to ECU.

Settings Communication N - COM Settings -	Iode COM 🔹	Flash Open File	Flash	Cancel
Port Num Baud Rate Open Device	COM3 115200 Find The ECU Close Device	How to flash the S1 Step 1: Select and s Step 2: Load the S Step 3: Click <flas Step 4: Power off t Load the Bin file su Working Page: C:\\ \S19\S33_H11_14</flas 	19/Mot/Hex file? set the communicat 19/Mot/Hex file,clic h>! he ECU and then p ccessfully! Jsers\ZhangNing\D 9_Cr17_E4.s19	ion mode! ck <open file=""> ower on! esktop</open>

7) Turn off the key switch, and then turn on the key switch to power



ECU.you will see the "Erasing the flash, please wait." start to work and the blue progressing bar running...

Wait it to finish.

coriash VI.I.I.I			
Communication Mode USB	Flash Open	File Flash	Cancel
Port Num	*		0%
Baud Rate 1152	Step 2: L Step 3: C Step 4: P	oad the S19/Mot/Hey lick <flash>!</flash>	a file, click <open file=""> ^</open>
Find T	he ECU Flash GU Load the Working	I find the ECU succes S19 file successfully! Page: C:	ssfully!
Open Device	SEA_b1	771 C15 L5953 C	rII1521_E3_lest rII1521_E3_Test_s19
Open Device Close	Device		
Erasing the flash,ple	ase wait		
EcoFlash v1.1.1.1	2		<u> </u>
 EcoFlash v1.1.1.1 Settings 	Flash		
EcoFlash v1.1.1.1 Settings Communication Mode USB	Flash Open	File Flash	
 EcoFlash v1.1.1.1 Settings Communication Mode USB COM Settings 	Flash Open	File Flash	
EcoFlash v1.1.1.1 Settings Communication Mode USB COM Settings Port Num	Flash Open	File Flash	Cancel 8 %
 EcoFlash v1.1.1.1 Settings Communication Mode USB COM Settings Port Num Baud Rate 1152 	Flash Open Step 4: Po Flash GU	File Flash	Cancel 8 % 1 then power on!
EcoFlash v1.1.1.1 Settings Communication Mode USB COM Settings Port Num Baud Rate 1152 Find T	Flash Open Step 4: P Flash GU Load the Working SEA b1	File Flash ower off the ECU and I find the ECU succes \$19 file successfully! Page: C: 771 C15 L5953 Ci	Cancel 8 % 1 then power on! ssfully!
EcoFlash v1.1.1.1 Settings Communication Mode USB COM Settings Port Num Baud Rate 1152 Find Tage	Flash Open Step 4: Per Flash GU Load the Working SEA_b1 SEA_b1	File Flash ower off the ECU and I find the ECU succes S19 file successfully! Page: C: 771_C15_L5953_Ca 771_C15_L5953_Ca	Cancel 8 % 1 then power on! ssfully! rII1521_E3_Test rII1521_E3_Test.s19
 EcoFlash v1.1.1.1 Settings Communication Mode USB COM Settings Port Num Baud Rate 1152 Find T Open Device 	Flash Open Step 4: Po Flash GU Load the Working SEA_b1 SEA_b1 SEA_b1	File Flash ower off the ECU and I find the ECU succes \$19 file successfully! Page: C: 771_C15_L5953_Ci 771_C15_L5953_Ci ng the flash.please wa	Cancel 8 % then power on! ssfully! tII1521_E3_Test tII1521_E3_Test.s19 it
EcoFlash v1.1.1.1 Settings Communication Mode USB COM Settings Port Num Baud Rate 1152 Find T Open Device Open Device Close	Flash Open Step 4: Per Flash GU Load the Working SEA_b1 SEA_b1 Programin Starting ti	File Flash ower off the ECU and I find the ECU succes S19 file successfully! Page: C: 771_C15_L5953_Ca 771_C15_L5953_Ca ng the flash.please wa me: 13:22:26	Cancel 8 % 1 then power on! ssfully! rII1521_E3_Test rII1521_E3_Test.s19 it

When it Flash successfully, it will prompt information "Flash successfully!" and you will hear the fuel pump running for a few seconds.



Settings Communication Mode USB	Plash Open File	Flash	Cancel
Port Num Baud Rate 11520 Find The Open Device	Working Page: SEA_b1771_ SEA_b1771_ ECU Programing the Starting time: 1 Flash successfi The end time: 1	C: C15_L5953_CrII1521 C15_L5953_CrII1521 flash,please wait 3:22:26 illy! I3:23:01	I_E3_Test I_E3_Test.s19

Note: If you select COM, please make sure the serial port is not occupied in other settings. If COM is occupied, it will pop up a window.

Settings Communication M COM Settings	ode COM Flash Open File Flash	Cancel
Port Num	CC Warning	
Baud Rate	115 The port COM3 is not exist or occupied! file? munication model: file,click <o< td=""> Find? OK I then power</o<>	ode! pen file> on!
Open Device Open Device	Close Device	-

You need to check whether other programs have taken up com port.

Note:

If the ECU has been powered on, when click the "Flash" button, it will



report a message"Power off the ECU and then power on (Key-cycle)".

Please Key off then key on again (Key-cycle). And do the same above operation steps.

Settings Communication N -COM Settings -	Mode COM 🔹	Flash Open File Flash Cancel
Port Num Baud Rate	COM3 115200 Find The ECU	\S19\S33_H11_149_Cr17_E4.s19 EcoFlash can't find the ECU! EcoFlash can't find the ECU! EcoFlash can't find the ECU! Flash task is canceled! Load the Bin file successfully! Working Page: C:\Users\ZhangNing\Desktop \S19\S33_H11_149_Cr17_E4.s19
Open Device Open Device	Close Device	EcoFlash find the ECU successfully!

2.3 Flash "S19" file to ALM

For ALM, the operation is the same as ECU, expect the following precautions:

- ALM bootloader only runs at 500K Baud rate.
- It is better to disconnect the O2 sensor during flashing, and it is better to keep the ALM power off at the beginning, and after you clicked the "Flash" button then power it on.
- Try to "Close Device" and then "Open Device" if the connection has problem.



Communication Mode CAN CAN Settings	Flash Open File Flash Cancel
Device Type EcotronsCAIN Device Index 0 Channel No. 1 Baud Rate 500kbs CECU	How to flash the S19/Mot/Hex file? Step 1: Select and set the communication mode! Step 2: Load the S19/Mot/Hex file,click <open file=""> Step 3: Click <flash>! Step 4: Power off the ECU and then power on!</flash></open>
Open Device Close Device	