

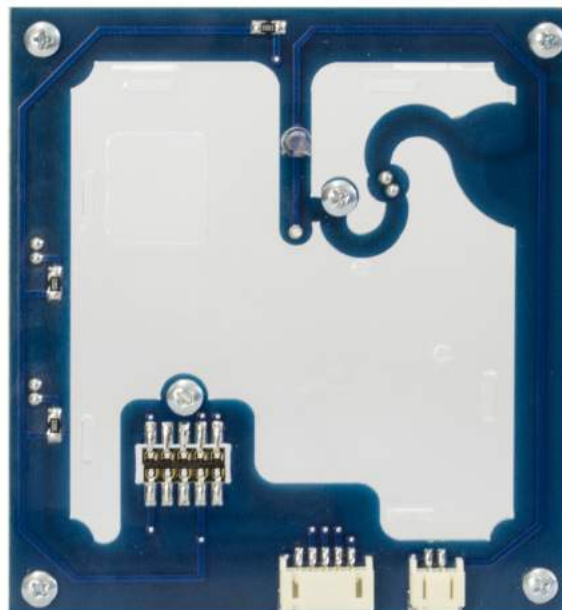
# BGA full solution

## Package

Set contains IR Tools SE, Magic Eraser SE, Magic Eraser SE Connection cable, EZS adapter



Optional: W204/W207 Click 'n Go



[www.mbkeyprog.com](http://www.mbkeyprog.com)



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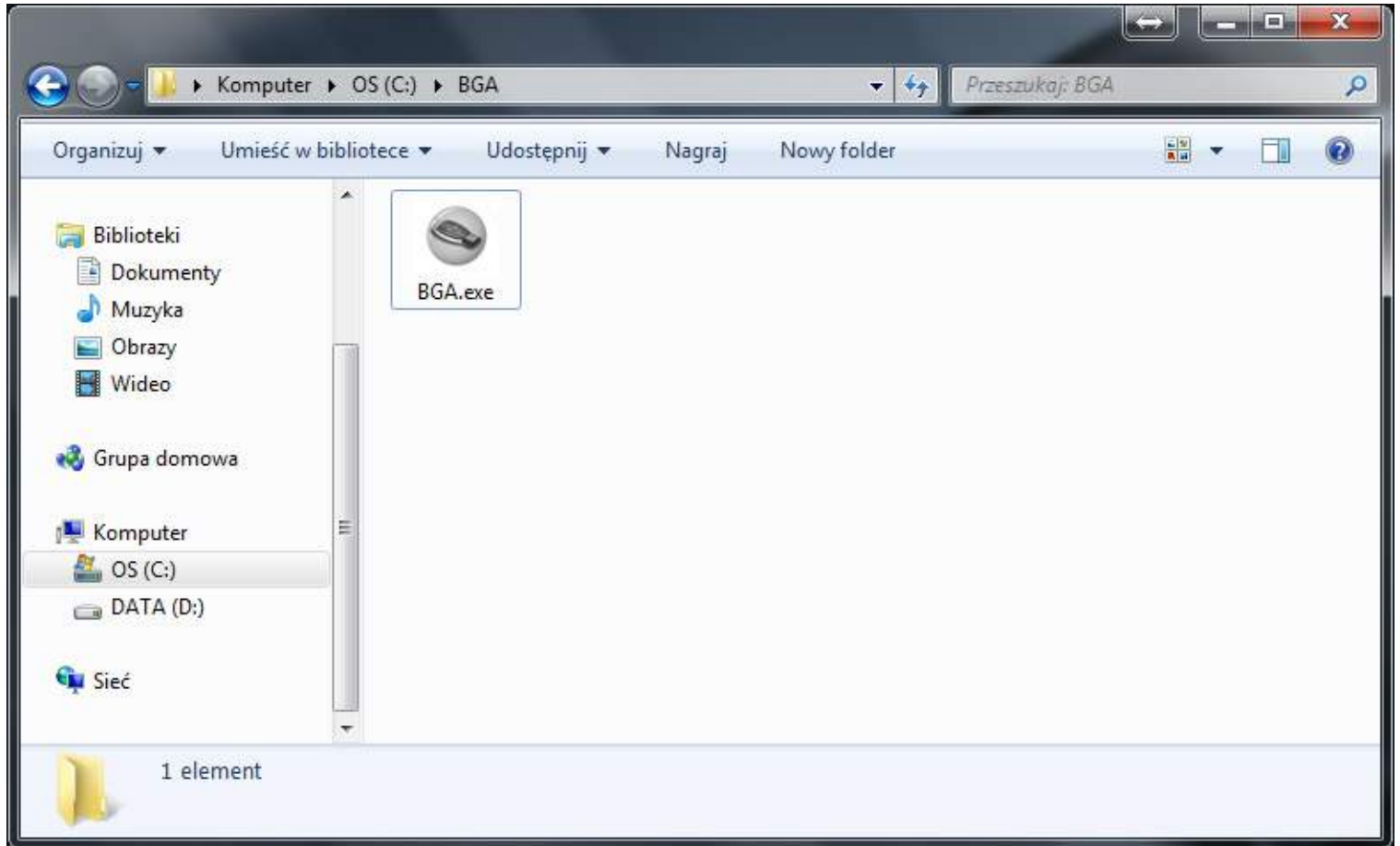
# BGA full solution

Find OBD socket in your vehicle. It's under your steering wheel on the left hand side. Connect Magic Eraser to the OBD.



# BGA full solution

Run the BGA Tools program. Double click the BGA.exe file.

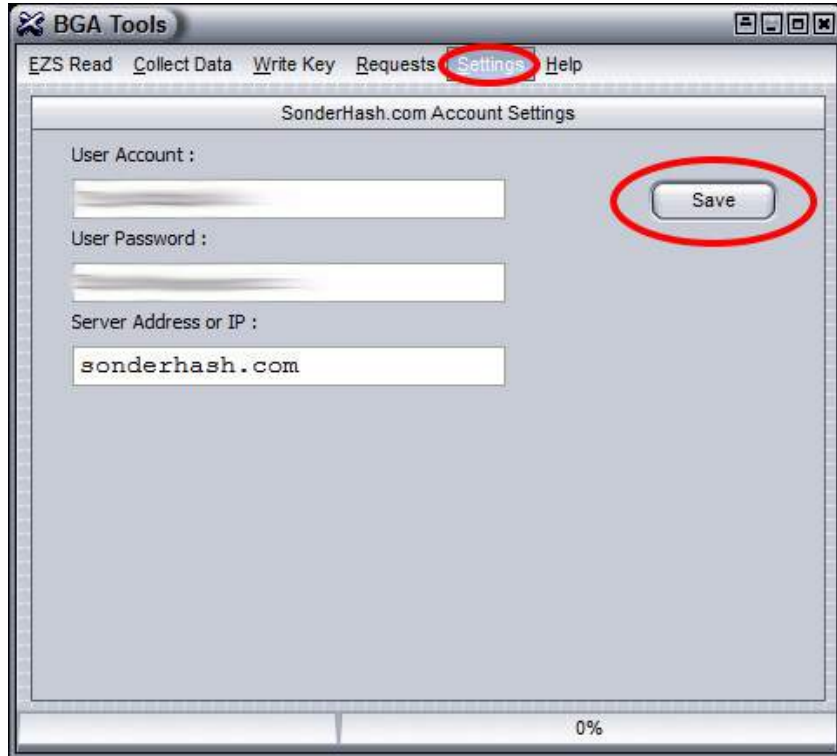


# BGA full solution

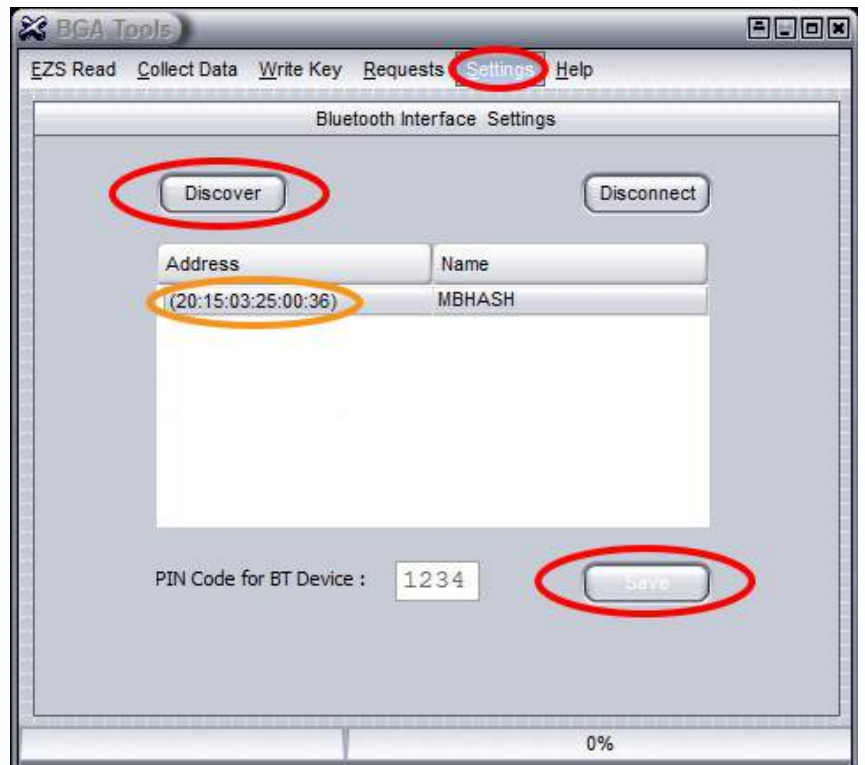
## Set up software

Click on the "Settings" tab and select "Account". Login to your sonderhash account by typing in your Sonderhash email and password, click save afterwards.

You're now logged into your sonderhash account.

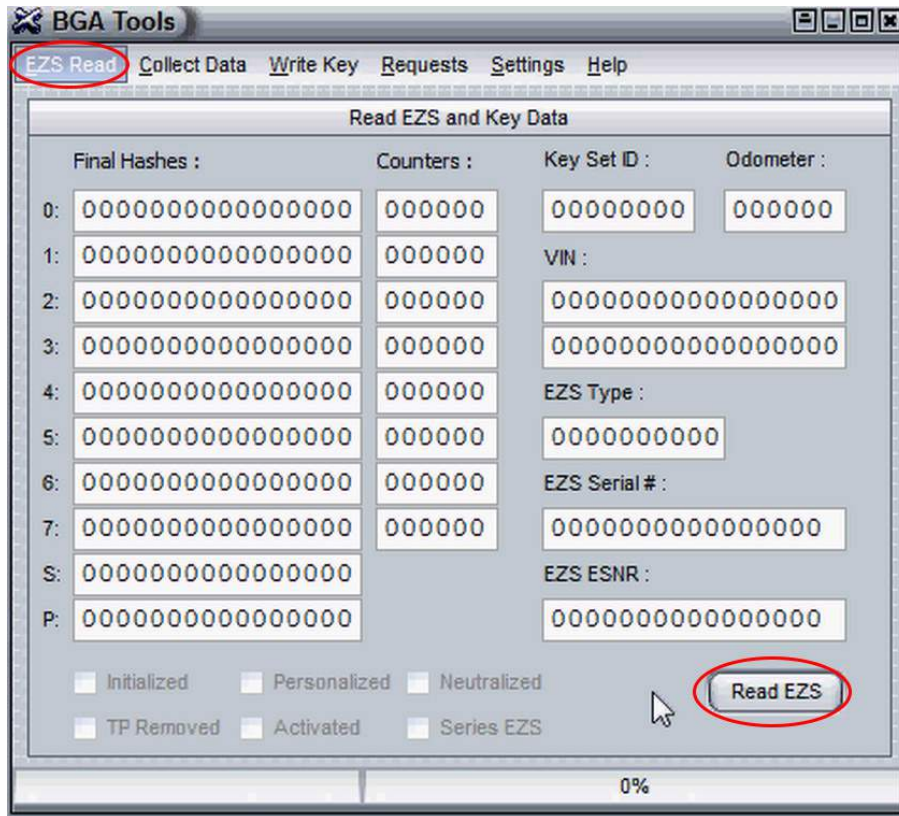


Click on the "Settings" tab and select "Bluetooth". Click "Discover" button to search for devices. Connect to Magic Eraser SE device by selecting "MBHASH" device from the device list, device address is on the sticker on the device (The Addresses need to match!). Type in 1234 PIN Code and click save. Your Magic Eraser SE device is now connected.

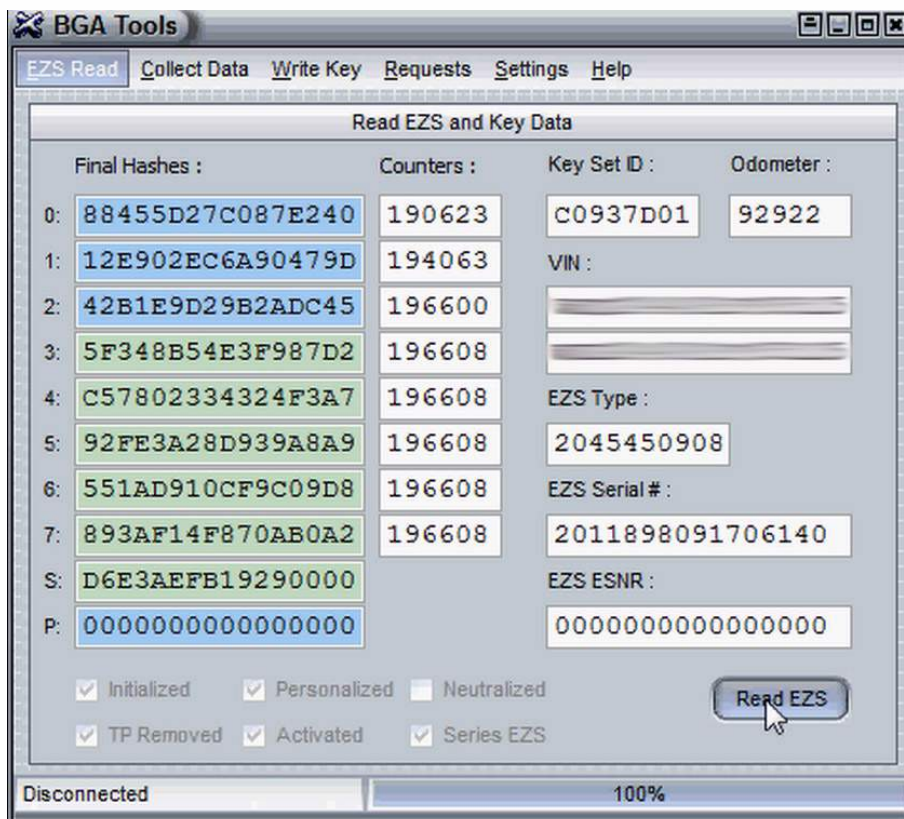


# BGA full solution

Make sure that the IR Tools SE is connected to your computer.  
Go to the "EZS Read" tab and click "Read EZS" button.



Your EZS hashes are shown after reading EZS.



# BGA full solution

## How to read password - At least one key

Click on the "Collect Data" tab. If you have a working key for your EZS please select "Yes" button.

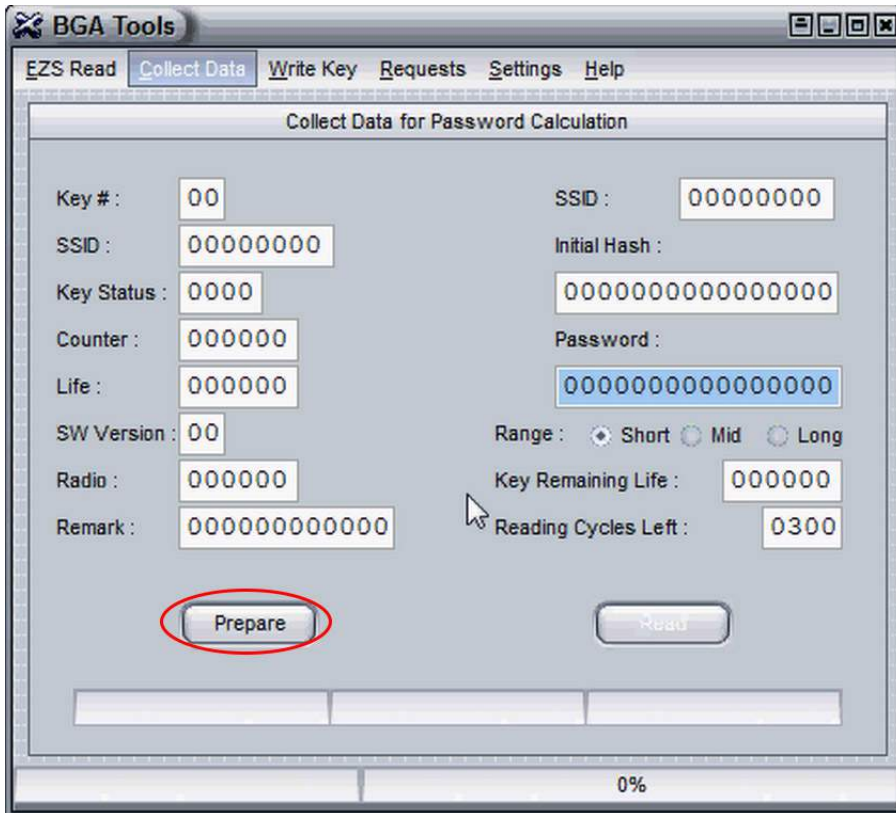


Connect MB Key Prog 2 to the computer and put the working key into MB Key Prog 2.



# BGA full solution

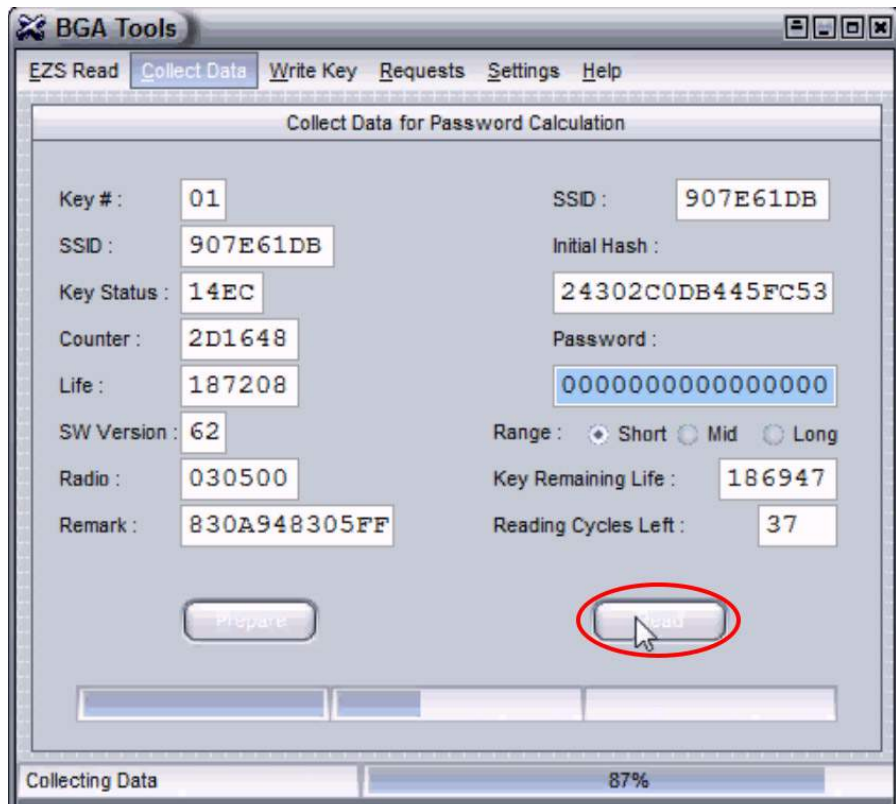
Click "Prepare" button, the program will prepare the working key for further calculation.



Click "Read" button. Your hash is going to get calculated. This operation will take 3+ minutes, please be patient. After that you're ready to program a new key.

If password not found you need to read once again.

Finding password operations might take up to 60 minutes



# BGA full solution

Password found!

**BGA Tools**

EZS Read **Collect Data** Write Key Requests Settings Help

Read EZS and Key Data

Final Hashes :	Counters :	Key Set ID :	Odometer :
0: 033E0A6435E61C85	195481	907E61DB	160934
1: 6C3362E71503CEAB	187209	VIN :	
2: ECD1BFE847AAF280	196608		
3: F09DCD45E2D20127	196608		
4: 85FAEA9616409404	196608	EZS Type :	
5: 96DFBBFCFE3E2D87	196608	2075450108	
6: 2ECE8293890A47BA	196608	EZS Serial # :	
7: 1F8B30E0DA49C685	196608	2021577021706175	
S: 23631F9B0E279704		EZS ESNR :	
P: 76317F104CF09460		0000000000000000	

Initialized  Personalized  Neutralized  
 TP Removed  Activated  Series EZS

Read EZS

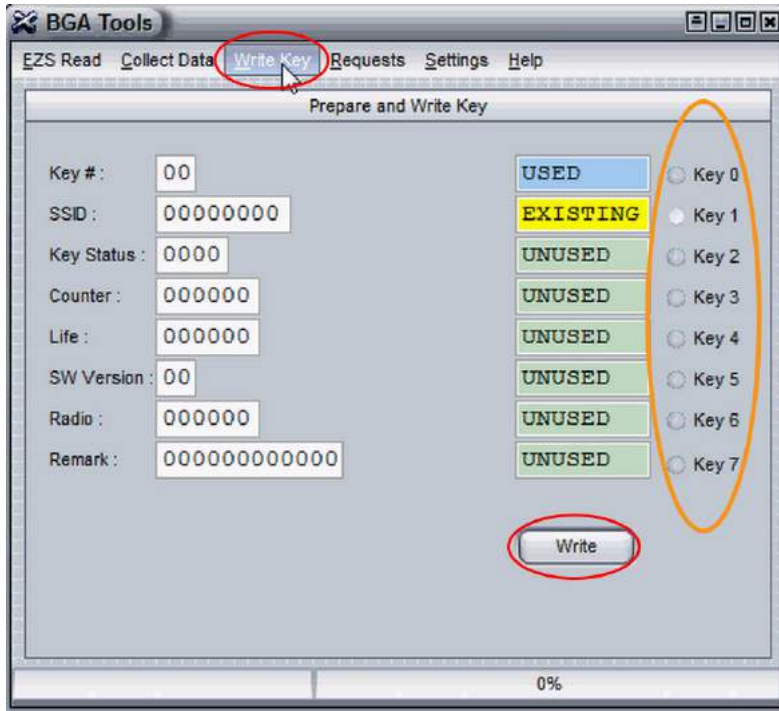
Password Found 100%



# BGA full solution

## How to program key - At least one key

Take out the working key and put in the new key with 21DF status. Go to the "Write Key" tab, select a Key and click "Write" button.



Select key

Your key is now programmed!

