Package

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



#### Optional: W204/W207 Click 'n Go





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



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

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#### 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.

🔀 BGA T	ools			800
EZS Read	<u>C</u> ollect Data	<u>W</u> rite Key	Requests Settings Help	
		Sonder	Hash.com Account Settings	
User /	Account :			$\frown$
	_			Save
User F	Password :			$\sim$
Serve	r Address or IF	?:		
sor	nderhash	.com		
			0%	

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 Tools	EJOX
	EZS Read Collect Data Write Key Requests Settings Help	
	Bluetooth Interface Settings	
	Discover	
ON ADE	Address Name	
B VIDE magic eraser	(20:15:03:25:00:36) MBHASH	
20;15:03:25:00:36		
	PIN Code for BT Device : 1234	>
	0%	

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

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Your EZS hashes are shown after reading EZS.

🔏 B	GA Tools			Elox					
<u>EZS</u>	Read <u>C</u> ollect Data <u>W</u> rite Key	/ <u>R</u> equests <u>S</u> et	tings <u>H</u> elp	n dagen began began began dagen degen degen degen began began began began b					
	Read EZS and Key Data								
	Final Hashes :	Counters :	Key Set ID :	Odometer :					
0:	88455D27C087E240	190623	C0937D01	92922					
1:	12E902EC6A90479D	194063	VIN :						
2:	42B1E9D29B2ADC45	196600							
3:	5F348B54E3F987D2	196608							
4:	C57802334324F3A7	196608	EZS Type :						
5:	92FE3A28D939A8A9	196608	204545090	8					
6:	551AD910CF9C09D8	196608	EZS Serial # :						
7:	893AF14F870AB0A2	196608	201189809	1706140					
S:	D6E3AEFB19290000		EZS ESNR :						
P:	000000000000000000000000000000000000000		000000000	0000000					
	<ul> <li>✓ Initialized</li> <li>✓ Personalized</li> <li>✓ Neutralized</li> <li>✓ TP Removed</li> <li>✓ Activated</li> <li>✓ Series EZS</li> </ul>								
Disco	onnected	1	100%						

## 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.



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

🔀 BGA Tool	s)							×		
EZS Read	llect Data	/rite Key	<u>R</u> equests	<u>S</u> ettings	<u>H</u> elp					
	Collect Data for Password Calculation									
Key # :	00			S	SID :	0000	0000			
SSID :	000000	000		Ir	nitial Hash :					
Key Status	: 0000				000000	00000	00000			
Counter :	000000	)		F	assword :					
Life :	000000				000000	00000	00000			
SW Version	: 00			Range :	<ul> <li>Shore</li> </ul>	t 🔿 Mid	C Long			
Radio :	000000	)	N	Key Re	maining Life	e: 0	00000			
Remark :	000000	00000		Reading	Cycles Le	ft :	0300			
	Prepare	$\supset$								
					1					
					0%					

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 To	BGA Tools								
EZS Read	<u>Collect</u> Dat	Write Key	Requests	<u>S</u> ettings	<u>H</u> elp	tan' na ina ina ina ina i	ager ager fran han han mer t	un inn he	
	Collect Data for Password Calculation								
Key # :	01			S	SID :	907E	61DB		
SSID :	907	E61DB		In	itial Hash :				
Key Stat	us: 14E	с		2	2 <mark>4302</mark> C0	DB44	5FC53		
Counter	2D1	648		Pi	assword :				
Life :	187	208		(	000000	0000	00000		
SW Vers	sion : <mark>62</mark>			Range :	<ul> <li>Short</li> </ul>	🔘 Mid	C Long		
Radio :	030	500		Key Ren	naining Life :	10	86947		
Remark :	830	A9483051	F	Reading	Cycles Left	:	37		
						>			
collecting Da	ata				87%				

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### Password found!

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🖧 В	BGA Tools								
<u>E</u> ZS	Read	<u>C</u> ollect Data	<u>W</u> rite Key	<u>R</u> equests	<u>S</u> ettin	gs <u>H</u> elp			
	Read EZS and Key Data								
	Final H	lashes :		Counters :		Key Set ID	:	Odometer :	
0:	033	E0A6435	E61C85	195481		907E6	1DB	160934	
1:	6C3	362E715	03CEAB	187209		VIN :			
2:	ECI	1BFE847	AAF280	196608					
3:	F09	DCD45E2	D20127	196608			_		
4:	85F	AEA9616	196608		EZS Type :				
5:	961	96DFBBFCFE3E2D87		196608		2075450108			
6:	2EC	2ECE8293890A47BA		196608		EZS Serial # :			
7:	1F8B30E0DA49C685		196608		2021577021706175				
S:	236	31F9B0E	279704			EZS ESNR	:		
P.	P 76317F104CF09460					00000	00000	000000	
	Initialized Personalized Neutralized Read EZS Read EZS								
Pass	Password Found 100%								

### How to program key - At least one key

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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.

00	USED		
00000	EXISTING UNUSED UNUSED UNUSED	Key 0 Key 1 Key 2 Key 3 Key 4	Select ke
000000000000000000000000000000000000000	UNUSED UNUSED UNUSED	<ul> <li>○ Кеу 5</li> <li>○ Кеу 6</li> <li>○ Кеу 7</li> </ul>	
	Write		
	0000 000000 000000 00 000000 000000000	0000 UNUSED 000000 UNUSED 000000 UNUSED 000000 UNUSED 00000000000 UNUSED Write	0000         UNUSED         Key 2           000000         UNUSED         Key 3           000000         UNUSED         Key 4           00         UNUSED         Key 5           000000         UNUSED         Key 6           0000000000         UNUSED         Key 7

#### Your key is now programmed!





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