AK90 Operation

Step1 : Install software Open the AK90 file from CD



Click "SETUP " for installing the software



Next step

User Information	×
Irstel Istical	Type your name below. You must also type the name of the company you work for and the product serial number. Ignore here,just type any words is OK Name: dell Company: 0 Serial: Q Ignore here,just type any words is OK
	< <u>B</u> ack <u>N</u> ext > Cancel

Next step



Software is installed completely

Next step install driver for AK90



After installing driver plug AK90 to computer to test the connection of AK90 with computer . PS: The connection port had better is "port2 to port5", you also can change the port Number in computer manager selection of your computer . When you plug AK90 to computer if screen shows "find a new unit " and then asks you To install driver for unit , You need to install driver again by manually .

3 41274		- 6 8
「「「「「「「」」」「「「」」」「「「」」」「「」」「「」」」「「」」」		
	Image: Section 100 I	
1 MG 0 0 0	🖸 (1) - Maximum Want 😂 A100.2.5 🧕 # 46.64* (2.3) ACD. 💆 # 46.65* (2.4) ACD. 💆 # 10000	■ < 2.33 (2.3) (2.3) * 7+000

Get into "Disk C" to find out a file called "SiLabs" .

Next step



Next step



Next step

After driver installed completely then plug AK90 to computer .

Note: plug AK90 to PC , you will hear a sound "Bi " means unit connects to PC successfully Then start the software . Do not open the software first without plug AK90 to PC .





If the security key is checked OK , you will hear a sound "Bi Bi Bi "for 3 times . Then you can start every function in AK90 software



Please see the EWS picture on the software for the help with how to connect MCU for EWS2,3,3+ and EWS4



For EWS2,3 you have to clean the pins on the MCU for reading data . For EWS4 you only solder a 6 wires on circuit by following the number on the cable.

☆ AK-90 (C:\Documents and Settings\dell\My Documents\Gambit2.01\衛點範例\2D47J.bin)		
		AK 90
	<u>_</u>	AK-90
00010 IT EWS ANALYZER		■ ₽]
00040 CEL VIN WBAGE410302//01025 04-2-4-2 1000001		
	5	Communicate
00050 ZP 00060 841 TYPE EWS 3	8	Rearch COM
00070 E41 GM: 41414603C		Connect Com OK -^0^-
00090215090000023 Can be changed		
		EWS Read/Write
000A0 DEL		2L86D 🔹
	D.Vt	READ EWS
000C0 F21 No lised locked No lised locked		WBITE FWS
000F0 FF 2 shows used keys		M. EWS PICTORE
00100 FF 3 🔽 🗖 8 🗖	J.	Factory KEY (10030A)
00110 ECI and reactive keys		Toot Kou
00130 OF		WW WRITE KEY
00140 FF MODIFY TO DUMP EXIT		File Read/Write
00150 FF I		Load BIN File
00160 03 43 00 09 02 15 09 00 00 CS 33 00 08 FC FE A& .C3		Save BIN File
00170 4C FF		
00180 FF	_	EXIT

Reading keys



AK-90 In Circuit Programmer for EWS2/3/4 ¥2.5	🔳 🗆 🔀
00 01 02 03 04 05 06 07 08 09 04 0E 0C 0E 0F 00000 55 02 D5 6E 39 9A 2A AE A4 8E 1C 23 77 00 00 00 Uk9.*#w 00010 00 04 7C 6E 00 01 02 00 01 FC 00 15 00 00 #w	AK-90
00020 20 2C Ač 4P 04 20 03 02 1C 20 40 00 00 00 ,,K @ 00030 4C 47 53 57 30 33 35 00 FF FF FF FF 00 00 00 LGSW035 BMW KEY ANALYZER	
Key Type: EWS-3/EWS-4 Key Number (1-10):	EWS Read/Write
3 VIN: WBAPB12030WC27210	KEY-1 READ EWS WRITE EWS
KM: 27517	
Reading keys	Test Key WRITE KEY
about the car	Load BIN File Save BIN File
	EXIT

Writing keys into PCF7935

▓ AK-90 (C:\Documents and Settings\dell\My Documents\Gambit2.01\御匙範例\2D47J.bin)	
	AK _ 90
00000 42 21 42 21 40 01 43 31 42 21 FE FE FE FE FE FE BIBI@ C1BL	AK-30
00020 88 37 49 45 01 81 81 07 11 97 06 55 F0 00 F0 FF .7TEU	
00030 FF FF 00 40 FF 0A 01 0A 0A F8 00 CC 5A 5A E9 54@ZZ.T	
00040 CE C3 04 17 5E 3C 26 5E A2 48 C3 50 BA 46 A7 DF]<&[.H.P.F.	
00050 2A 4A 69 2C C7 F1 DC C3 02 27 9E DC 51 1F 63 6F *Ji,'Q.co	Communicate
00060 8A 6E B7 DE 52 7A 64 21 1F 8E DE 1E 37 C3 02 26 .nRzd!7&	Search COM
00070 E4 CE 15 1A E L 58 65 77 86 F2 67 AF F2 D6 B6 55mwU	Connect Com OK -^0^-
00080 00 DE E6 C1 04 7C 64 CS CE 9B 16 CF F4 C6 8C 5C [d]	EWS BeadWrite
00090 Write BMW Key about Keys are in	
000A0 used, new or locked	KEY-1
000B0 Select Key	READ EWS
000C0 C Key01 Used Key06 Used	WRITE EWS
000D0 C Key02 Used C Key07 NoUse	EWS ANALYZE
000E0 C Key03 Used C Key08 NoUse	- 💭 - EWS PICTURE
000F0 C Key04 Locked(Write EWS) C Key09 NoUse	
00100 C Key05 Used C Key10 NoUse	Factory KEY (10030A)
	Test Key
00120 Transponder	
UU130 10030A[EML] PCF7930(35	
001F0 Write Key Cancel	File Read/Write
	Load BIN File
	Save BIN File
	EXIT



Waiting for 1 minute , do not move during programming Or the key will be failed in programming

<mark>號</mark> AK-90 (C:\Documents and Settings\dell\My Documents\Gambit2.01\鎖匙範例\2D47	7J.bin)
00010203040506070809040E0C0C0E0F	AK-90
00000 42 21 42 21 40 01 43 31 42 21 FF FF FF FF FF FF FF BI	B!@.C1B!
00010 FF 1 AK90 01 FE	
00020 88 37 49 45 01 81 81 07	IEU
00030 FF FF 00 40 FF 0A 01 0A 0 Write DATA OK PE9 54@	@ZZ.T
00040 CE C3 04 17 5C 3C 26 5E / 確定 為A7 DF	.]<&[.H.P.F
00050 2A 4A 69 2C C7 F1 DC C3 4 63 6F *J	li,'Q.co
00060 8A 6E B7 DE 52 7A 64 21 1F 8E DE 1E 37 C3 02 26 .n.	Rzd!7& W Search COM
00070 E4 CE 15 1A E1 F8 6C 77 8A F2 C7 A2 F2 DE BE 55	mwU Connect Com OK -^0^-
00080 00 DE E6 C1 BMW KEY ANALYZER 🛛 .] EWS Read/Write
00090 2C 99 71 5E	^?.
000A0 DE BE 3C 97 Key type.	<&q./L 7930+7935 •
000B0 02 AC 48 B5 CYYS-3/CYYS-4	H.(~^eQ.Vt READ EWS
000C0 F2 DC C5 FA Key Number (1-10):	I.G WRITE EWS
000D0 FF FF FF FF 7	e]M 🗘 EWS ANALYZE
000E0 AF BE BE 39	9
000F0 FF 02 04 9E	}
00100 FF FF FF FF WB00000000000000000000000	C>Y.U. Factory KEY (10030A)
00110 EC FF FF FF KM:	A 🛒 🚽 Test Kev
00120 42 OF FF FF 0	
00130 OF 10 10 03	".P
00140 FF FF FF FF FF	File Read/Write
00150 FF FF FF FF OK	AAF Dead BIN File
	Save BIN File
00170 4C FF FF FF	
	EXIT

After programming keys , you also can test the key again to see

If the key number is correct.

Writing keys into EML chips

就 AK-90 (C:\Documents and Settings\dell\My Documents\Gambit2.01\錉匙範例\2D47J.bin)	🔳 🗖 🔀
000102030405060708090A0E0C0C0E0F	AK-90
00000 42 21 42 21 40 01 43 31 42 21 FF FF FF FF FF FF FF B!B!@.C1B!	
00010 FF	
00020 88 37 49 45 01 81 81 07 11 97 06 55 F0 00 F0 FF .7IEU	
00030 FF FF 00 40 FF 0A 01 0A 0A F8 00 CC 5A 5A E9 54@ZZ.T	
00040 CECSI04 17 50 30 26 58 AS 48 CS 50 8 4 46 AS DE 128 EHD E	Community of the second
00050 2 Write BMW Key	Communicate
00060 8 Select Key	[1] Search COM
00070 E C Keylli Used C Keyll6 Used	Connect Com OK -^0^-
00080 0 C Key02 Used C Key07 Nellceßk/rite E\/S)	EWS Read/Write
00090 2 C Key02 Used C Key07 No0se[White EW3]	KEV 1
000A0 D Keyus Used Keyus Nouse(write Ews)	KEY-I
000B0 0 C KeyU4 Locked[Write EWS] C KeyU9 NoUse[Write EWS]	READ EWS
OOOCO F. C Key05 Used C Key10 NoUse(Write EWS)	WRITE EWS
000D0 F	EWS ANALYZE
000E0 A • 100304[EML] • PCF7930/35	- Q- EWS PICTURE
	201
00100 F Write Key Cancel	Factory KEY (10030A)
00110 E	Test Key
00130 OF 10 10 03 00 D5 03 10 22 05 50 FF FF FF FF FF FF".P	
00140 FF	File Read/Write
00150 FF 41 41 46AAF	Load BIN File
00160 03 43 00 09 02 15 09 00 00 C9 33 00 08 FC FE A& .C3	Save BIN File
00170 4C FF	
00180 FF	EXIT



Please check the battery power if it is in full power before programming

Now you can start the car with the new key, turn ignition on to wait for 5 sec.

Another function

AK90 can read keys with CAS system only , not program .



號 AK-90 (C.\Documents and Settings\dell\My Documents\Gambit2.01\領匙範例\2D47J.bin)	
00 01 02 03 04 05 06 07 08 09 04 0E 0C 0E 0F 00000 00 06 01 00 57 42 41 47 4E 36 33 34 38 33 44 52WBAGN63483 00010 31 31 33 31 37 2C 02 F1 15 68 01 02 30 33 35 34 11317,h0354 00020 55 36 46 41 FF FF FF FF FF FF FF FF FF 00 C5 8E 1F U6FA 00030 03 9F 95 71 0E 04 18 02 07 DE 00 00 00 00 00 00q	3DR Communicate
Key Type: CAS/CAS2/CAS3 Key Number (1-10): VIN: WBAGN63483DR11317 KM:	Connect Com OK -10- EWS Read/Write KEY-1 READ EWS WRITE EWS EWS ANALYZE WR EWS PICTURE
<u>50573</u> ОК	Factory KEY (10030A) Test Key WRITE KEY File Read/Write Load BIN File
	EXIT