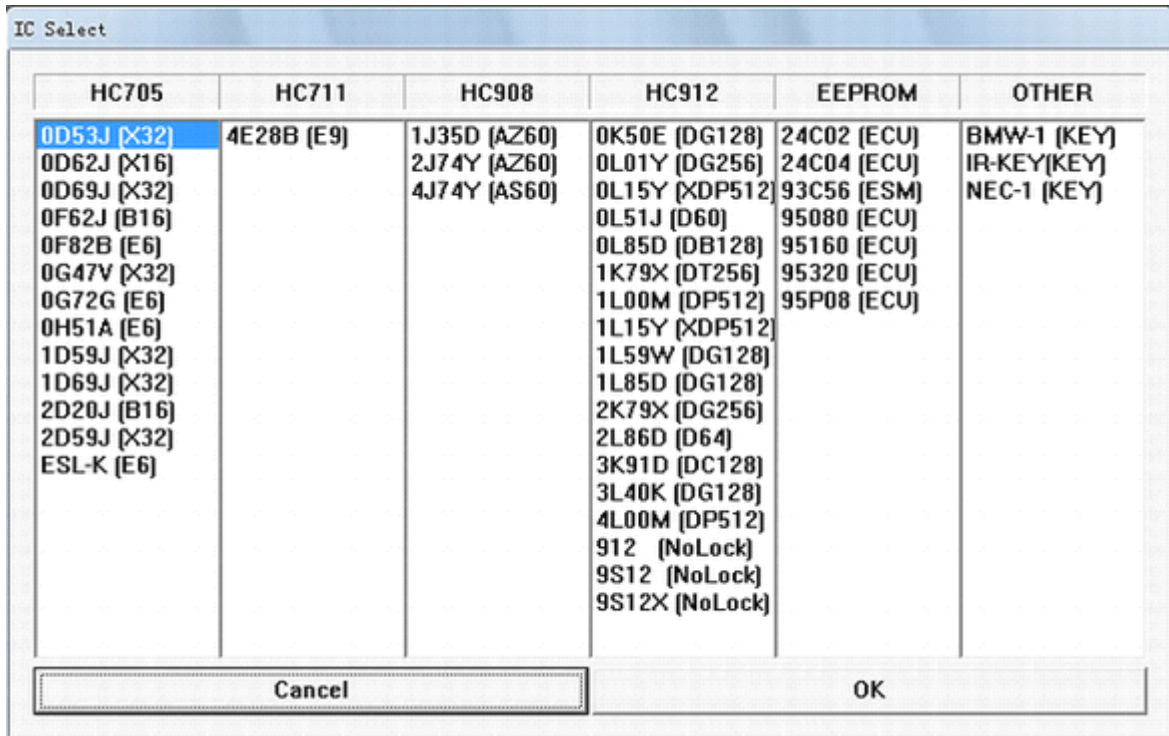


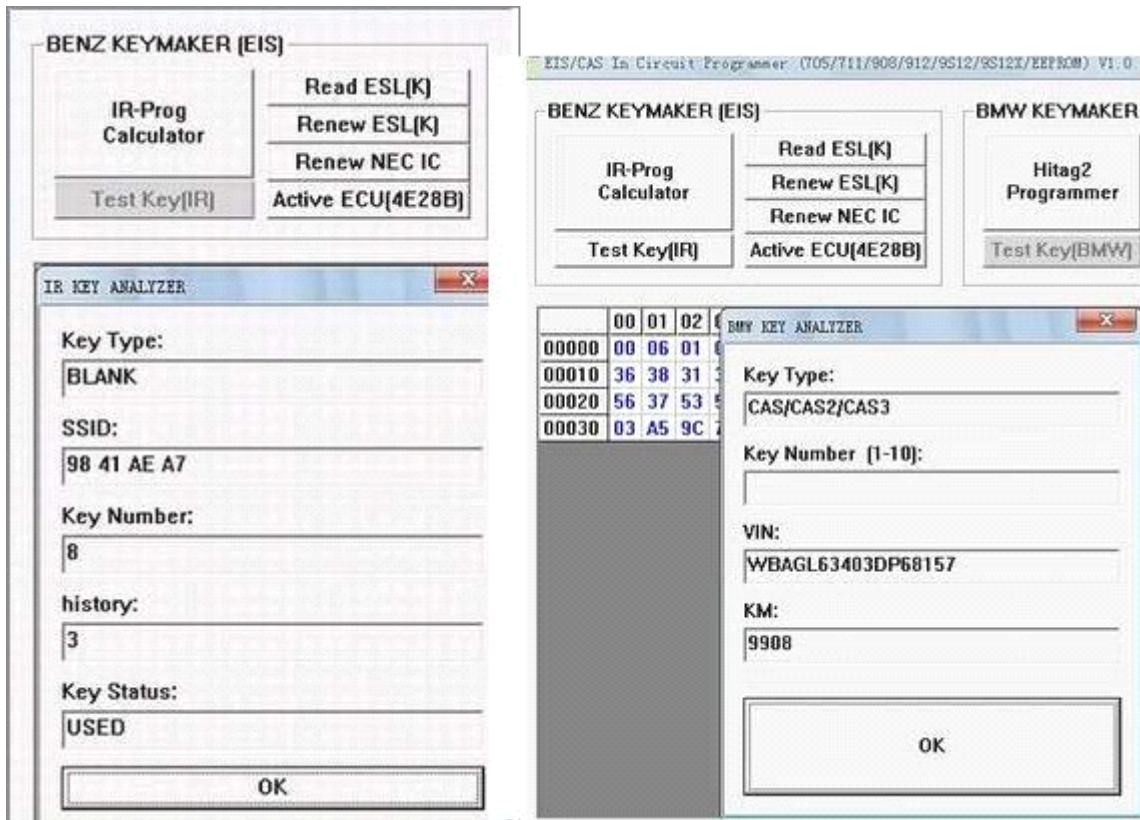
AK400 User manual

AK400 is so far the most usable chipsets, convenient operation, safest top key programmer., with functions as following:

1. MOTOROLA Single-part machine free of removing and reading ,supporting the most free of removing MCU of MOTOTOLA single-part machine.



2. Benz BMW Key testing



3. BENZ IR Key calculating and KEY NEC erasing , writing key datas

EIS → *car type*

ECU → *EEPROM or flash for ECU*

make data of keys and EIS and ECU and ESL or ESM

Process

write key data to NEC via IR

RENEW KEY *Renew NEC of keys*

Write
Big Old

Write
Chrome

Write
Small

4. BMW CA3 related key making

HITAG-2 key memory

Transponder memory

Identifier	P0	01B9011B	R	
PSW / ISK low	P1	4D494B52	R	W
NA / ISK high	P2	20F84F4E	R	W
Configuration	P3	06AA4854	R	W
User page 0	P4	465F4F4B	R	W
User page 1	P5	55555555	R	W
User page 2	P6	AAAAAAAA	R	W
User page 3	P7	FFFFFFFF	R	W

Configuration page 3

- bit 31 = 1 P1 ,P2 locked (ISKL)
- bit 30 = 1 P3 locked (CFGL)
- bit 29 = 1 Remote control pages locked (RCFL)
- bit 28 = 1 User pages write protected (FWUP)
- bit 27 = 1 Remote control pages access (BSEL)
- bit 24 = 1 DCP coding (DCS)

Security Key

low	high
4D494B52	00004F4E

Factory key

Operation mode

- Password
- Elpher(Crypto)

PCF7936

PCF7942

EEPROM key memory

Read Save

Write Load

```

0000 00 07 00 00 00 07 00 00 00 07 00 00 00 07 00 00 00 07 00 00
0010 00 07 00 00 00 07 00 00 00 07 00 00 00 07 00 00 00 07 00 00
0020 F9 43 FF FF 55 AA F0 0F 00 00 00 00 FF FF FF FF .C.U.....
0030 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0040 00 06 01 00 57 42 41 47 4C 36 33 34 30 33 44 50 ...MBA0L63403DP
0050 36 38 31 35 37 2C 02 F2 15 65 01 01 30 33 31 37 68157...h...0317
0060 56 37 53 57 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0070 03 A5 9C 75 15 15 06 08 07 D7 00 00 00 00 00 00 00 00 00 00
    
```

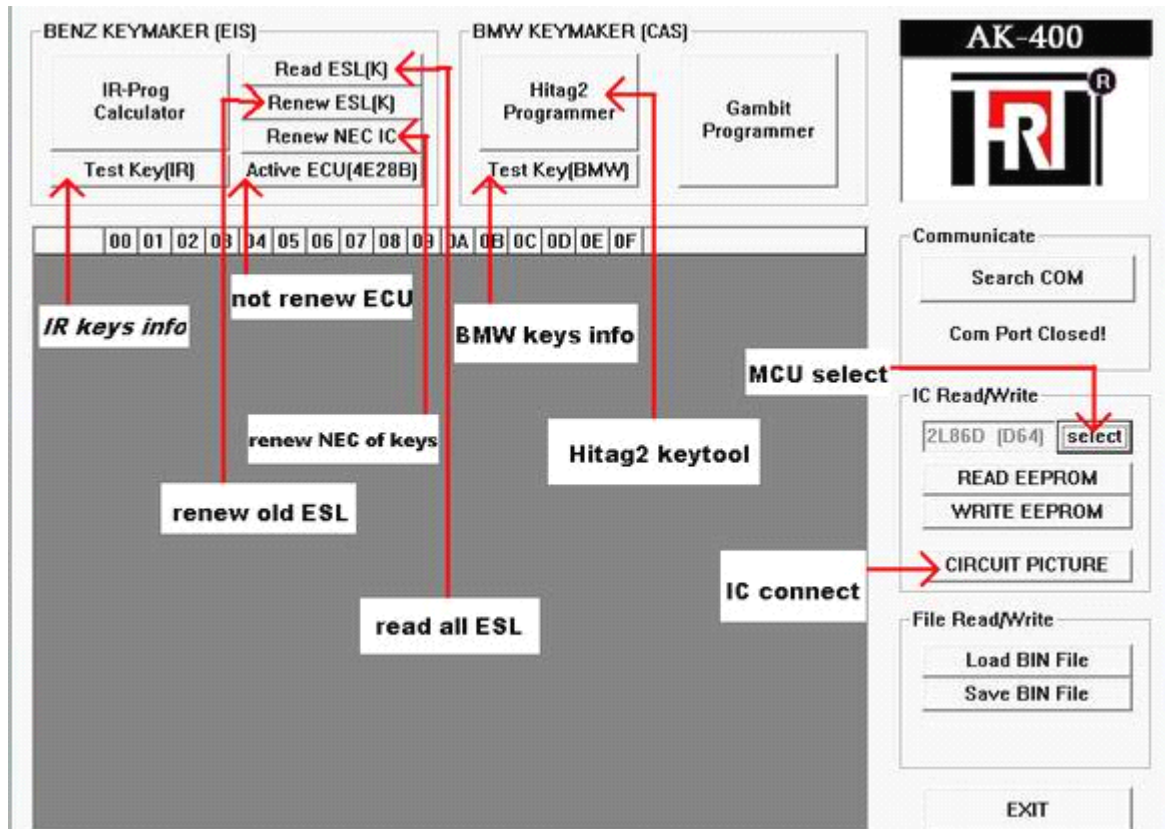
after written keys, save and write back to CAS

Key generation by immobilizer memory:

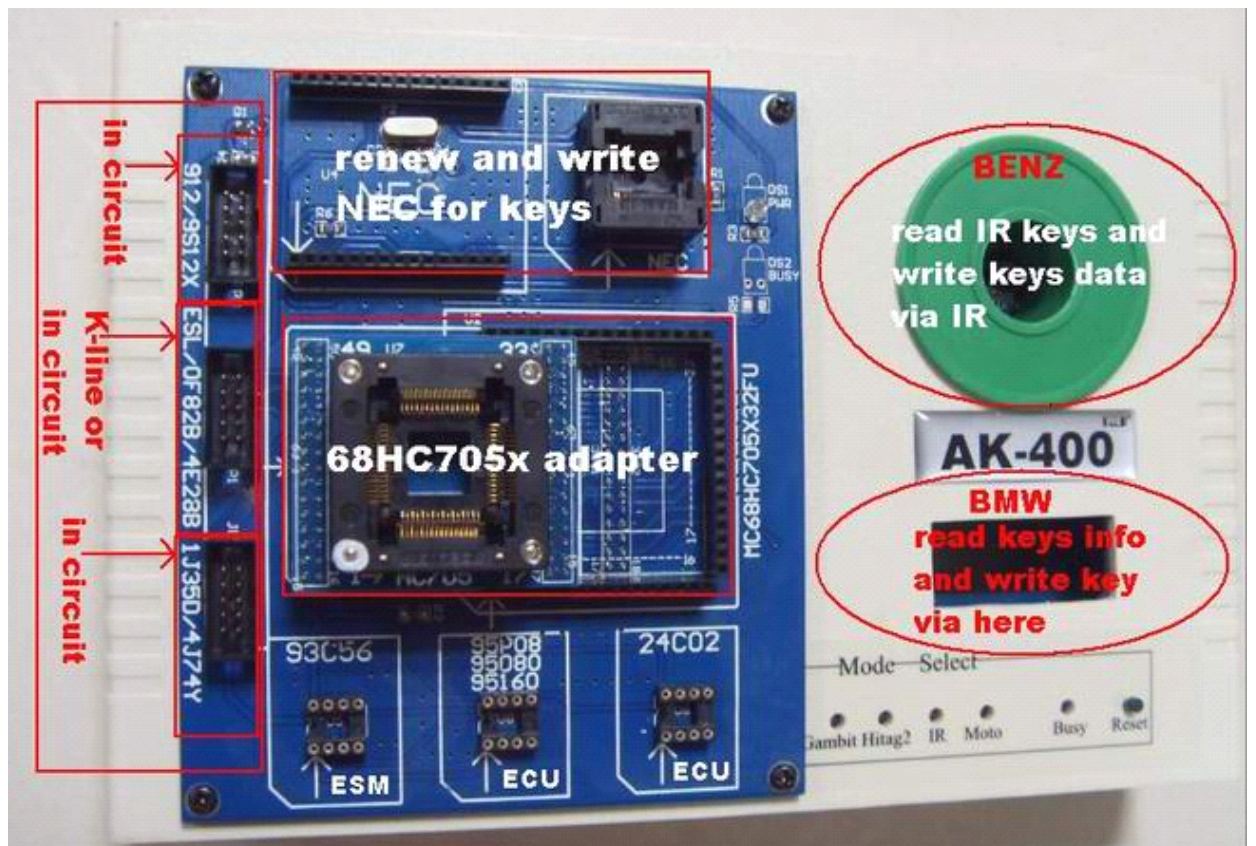
BMW CAS / CAS2 / CAS3 DG256 / CAS3 DG512 / CAS3+ DPS12

Load immobilizer dump Key number 4 Generate key Save immobilizer dump

AK400 Software framework chart



Hardware framework chart



EIS Electricity connection testing chart

