



LEADING TRANSPONDER TECHNOLOGY



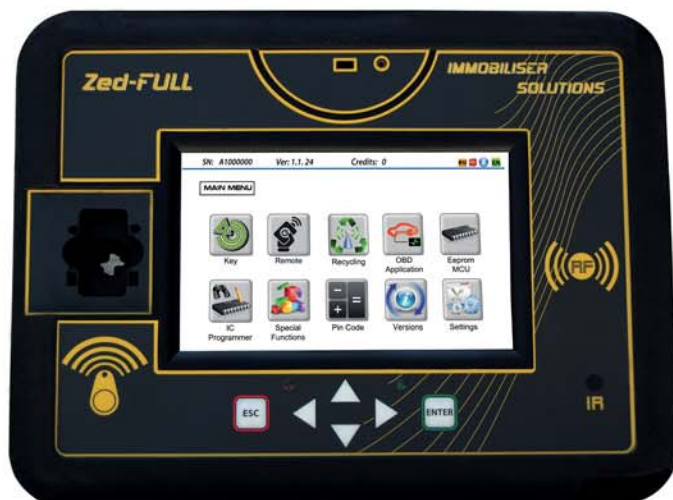
Zed-FULL

APPLICATION GUIDE

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LEADING TRANSPONDER TECHNOLOGY

All applications in single hardware and single cable. Programming different brand passenger cars and trucks is not a dream with Zed-FULL.



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ZFH-EA7 SECURITY MCU ADAPTER (912/9S12/9S12X)

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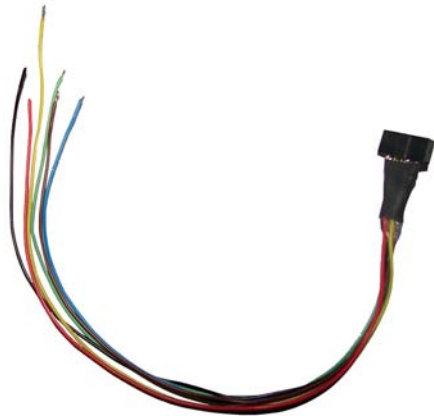
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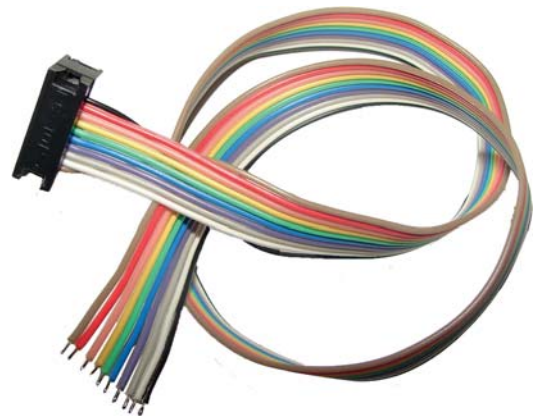
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Zed-FULL Eeprom and MCU Applications (read in-circuit)



ZFH-C06 CABLE (6 Pin)



ZFH-C07 CABLE (10 Pin)



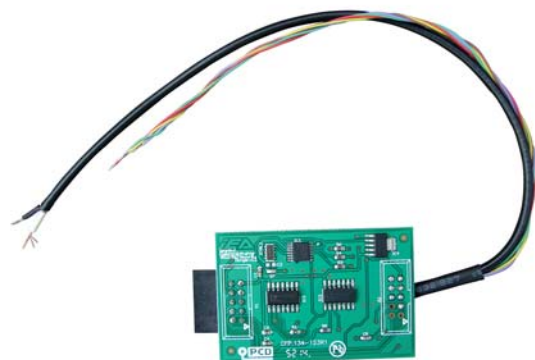
ZFH-C07-2 CABLE (10 Pin)



ZFH-C08 CABLE (20 Pin)



ZFH-C08-2 CABLE (20 Pin)

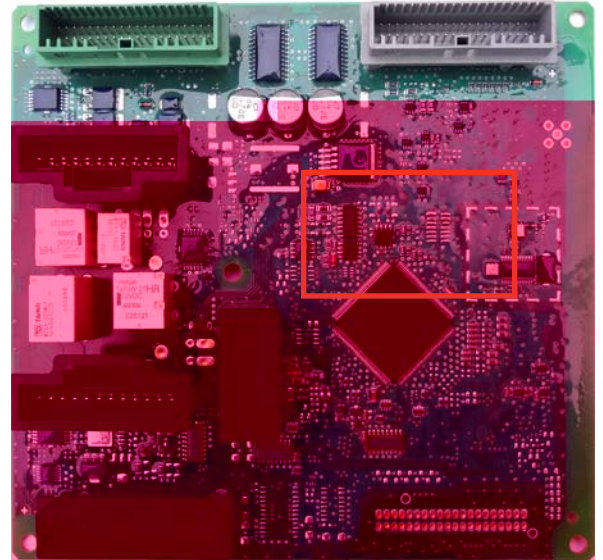


ZFH-EA7 SECURITY ADAPTER

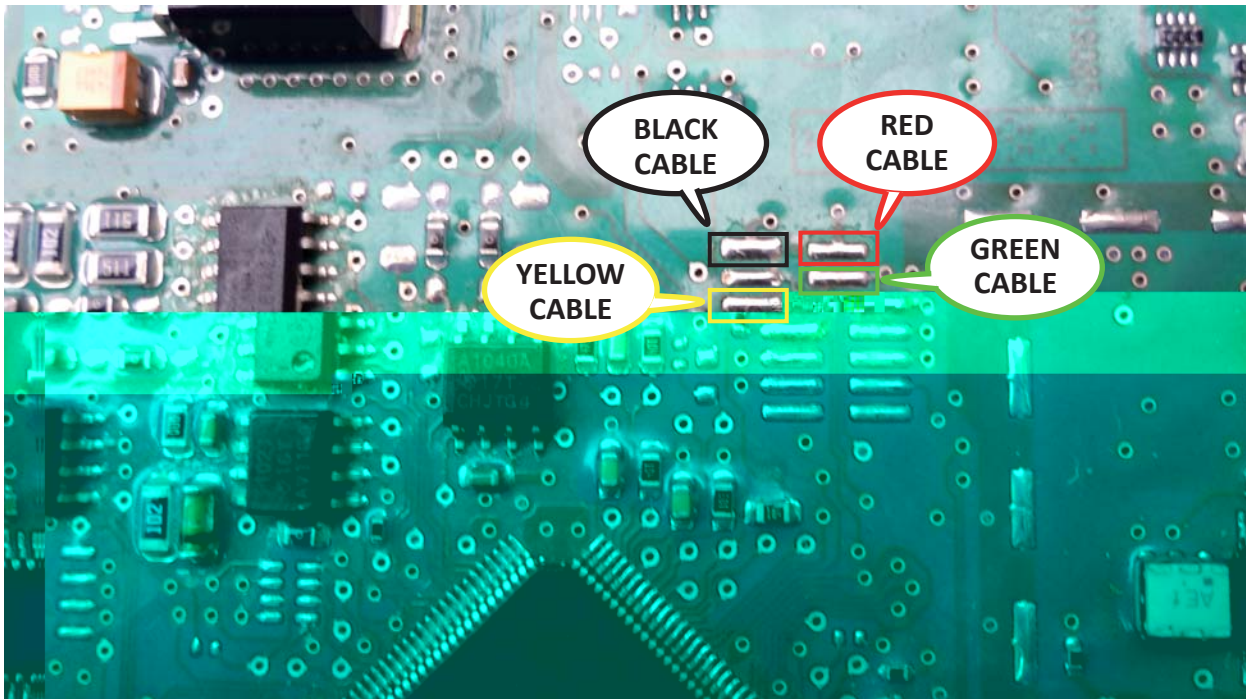
Module 213; Renault CONTINENTAL BCM L38-X38-X95

NEC D76F, QFP, 176pin

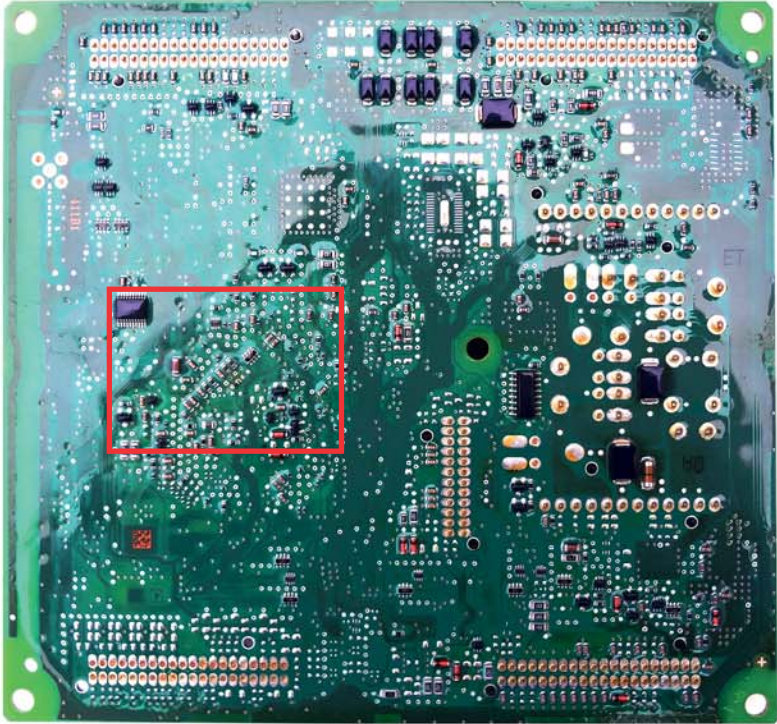
ZFH-C06 CABLE(6 Pin)



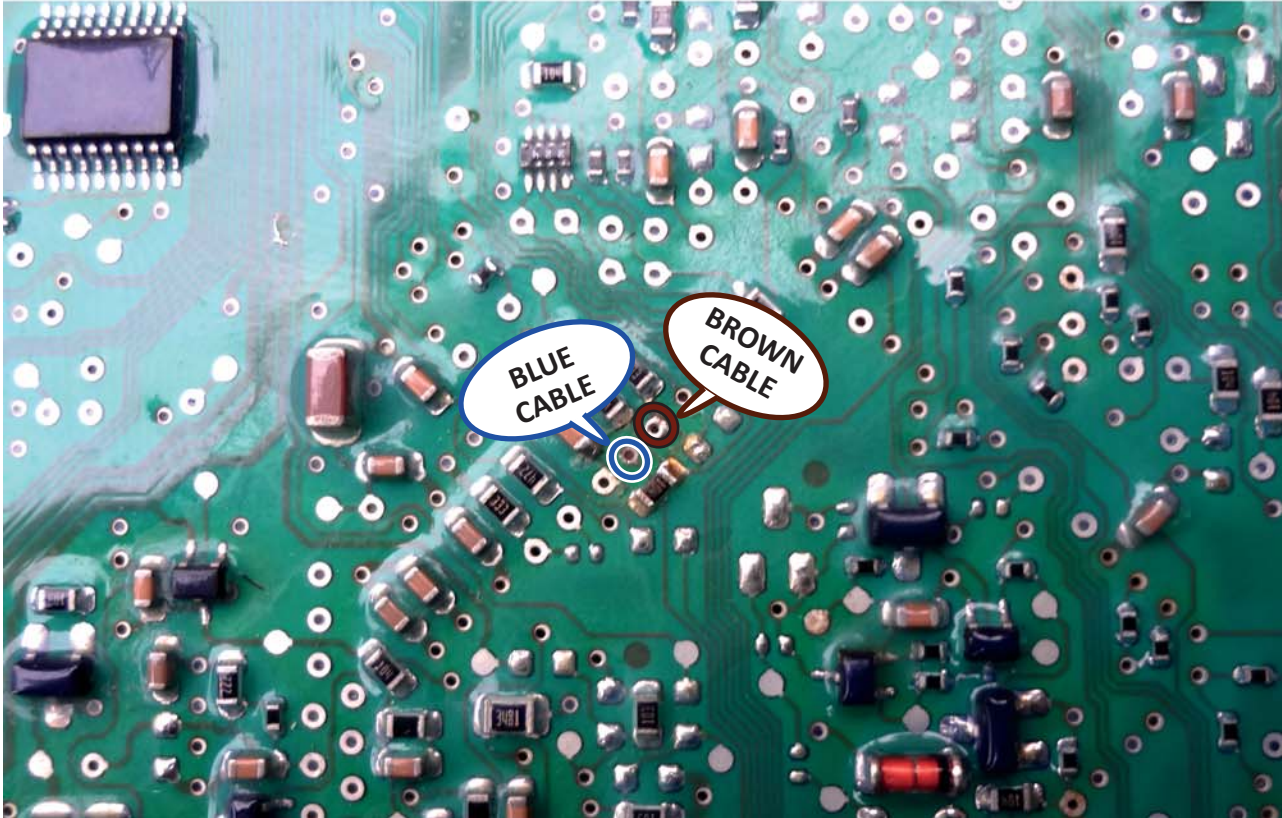
ÖN (FRONT)



Module 213; Renault CONTINENTAL BCM L38-X38-X95
NEC D76F, QFP, 176pin
ZFH-C06 CABLE(6 Pin)



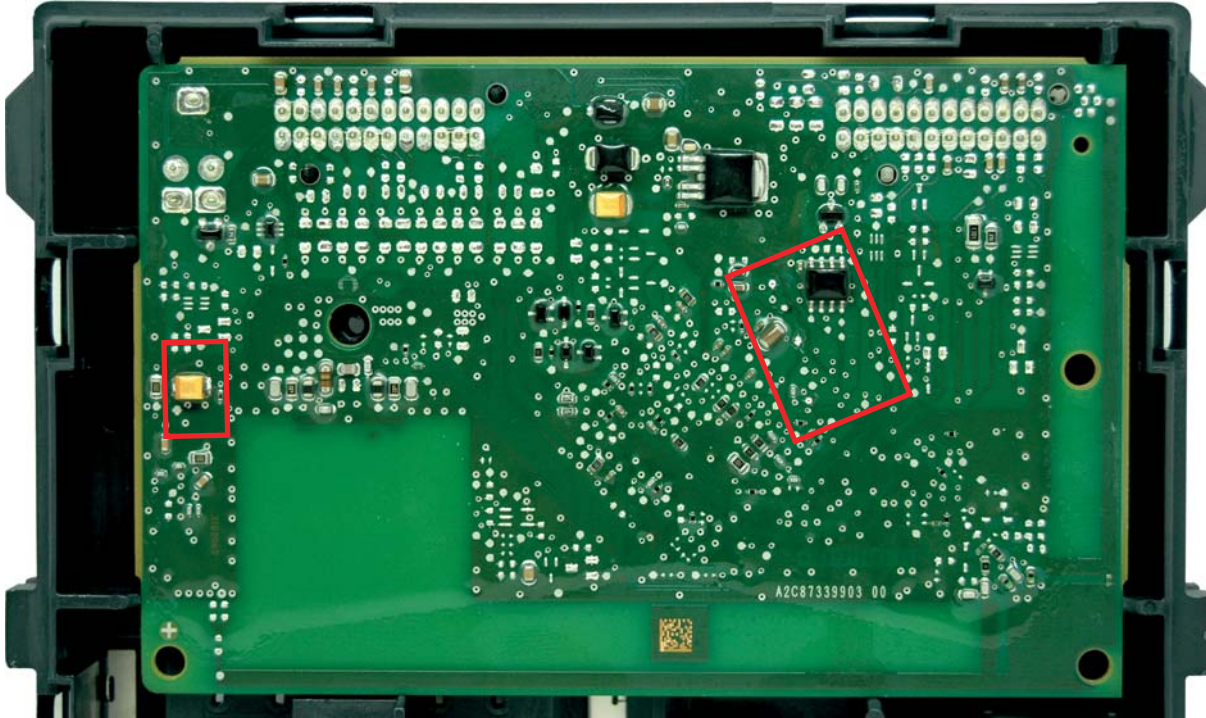
ARKA (BACK)



**Module 258; Renault Clio 4
NEC 70F3633, QFP, 176pin**

ZFH-C06 CABLE(6 Pin)

TIP 1 / TYPE 1



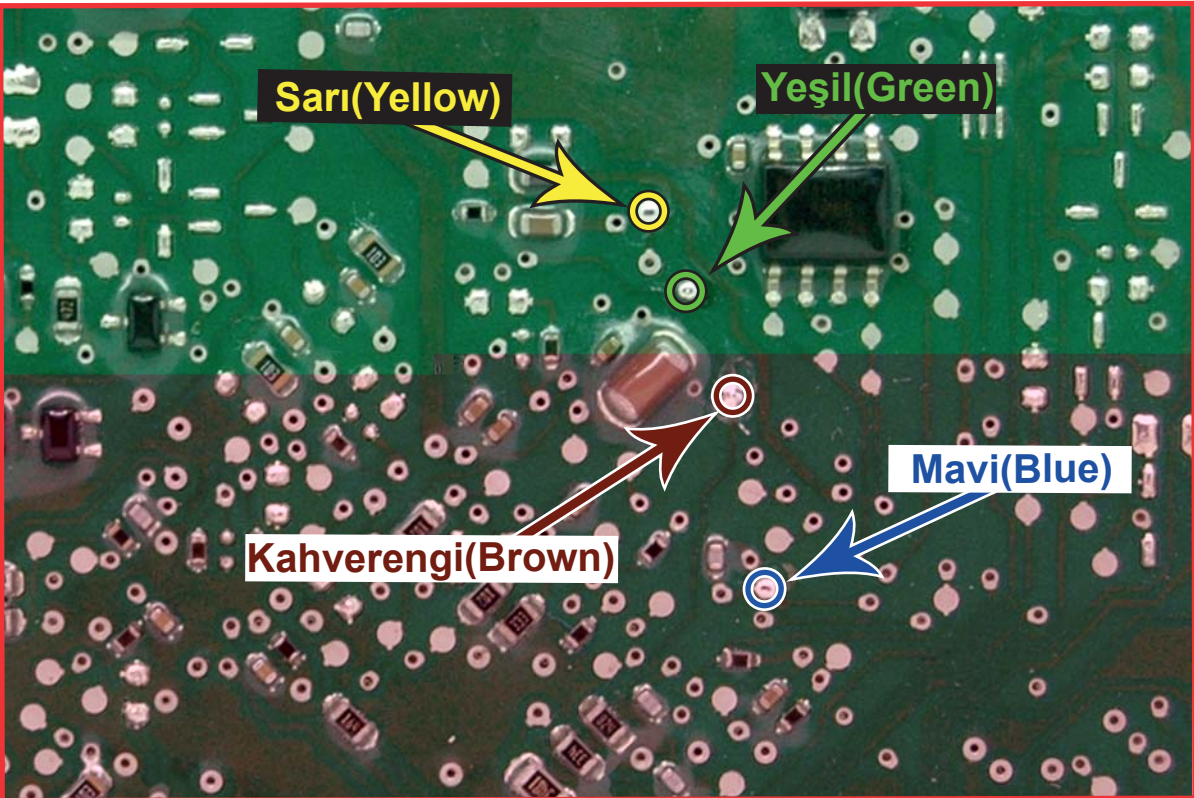
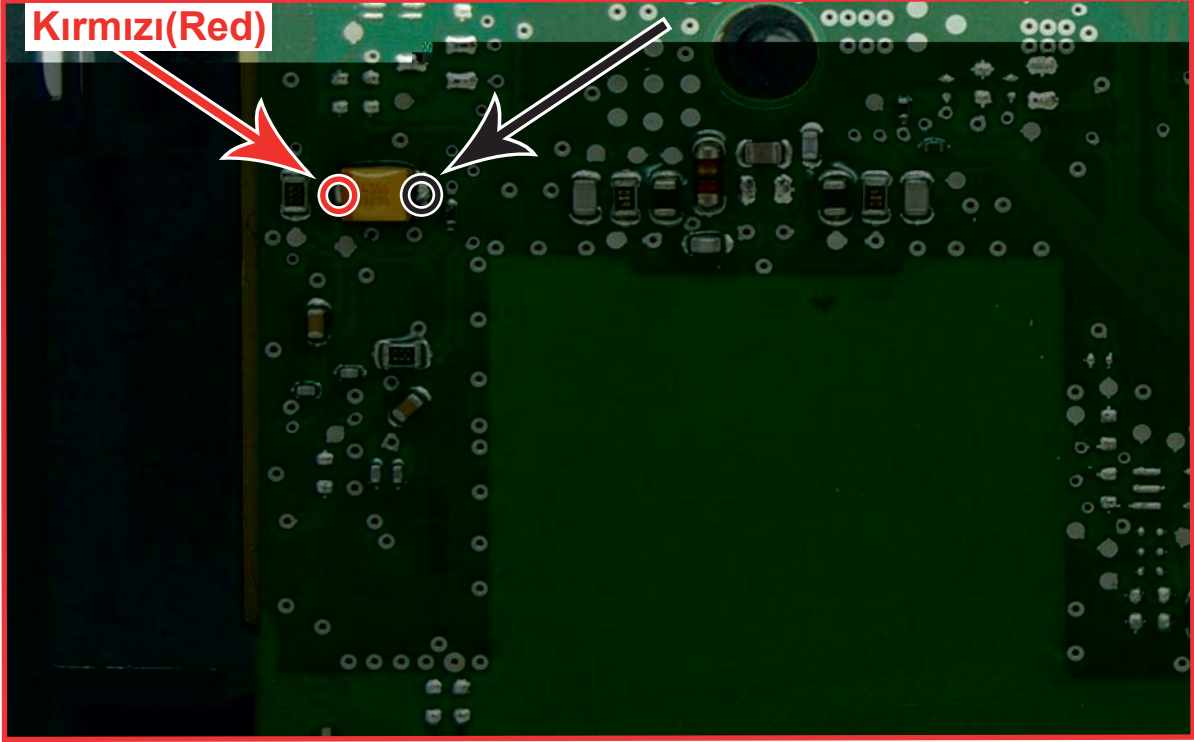
**ARKA KISIM DIĞER SAYFADA
(SEE THE NEXT PAGE FOR BACK SIDE)**



**Module 258; Renault Clio 4
NEC 70F3633, QFP, 176pin**

ZFH-C06 CABLE(6 Pin)

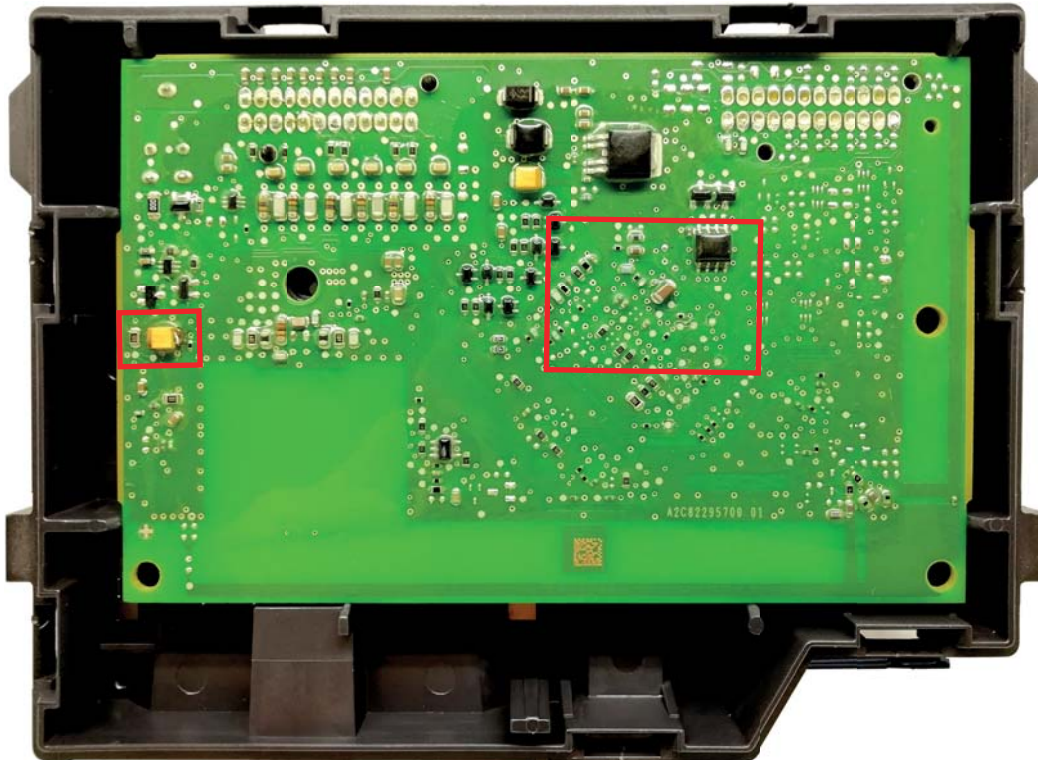
TIP 1 / TYPE 1



**Module 258; Renault Clio 4
NEC 70F3633, QFP, 176pin**

ZFH-C06 CABLE(6 Pin)

TIP 2 / TYPE 2



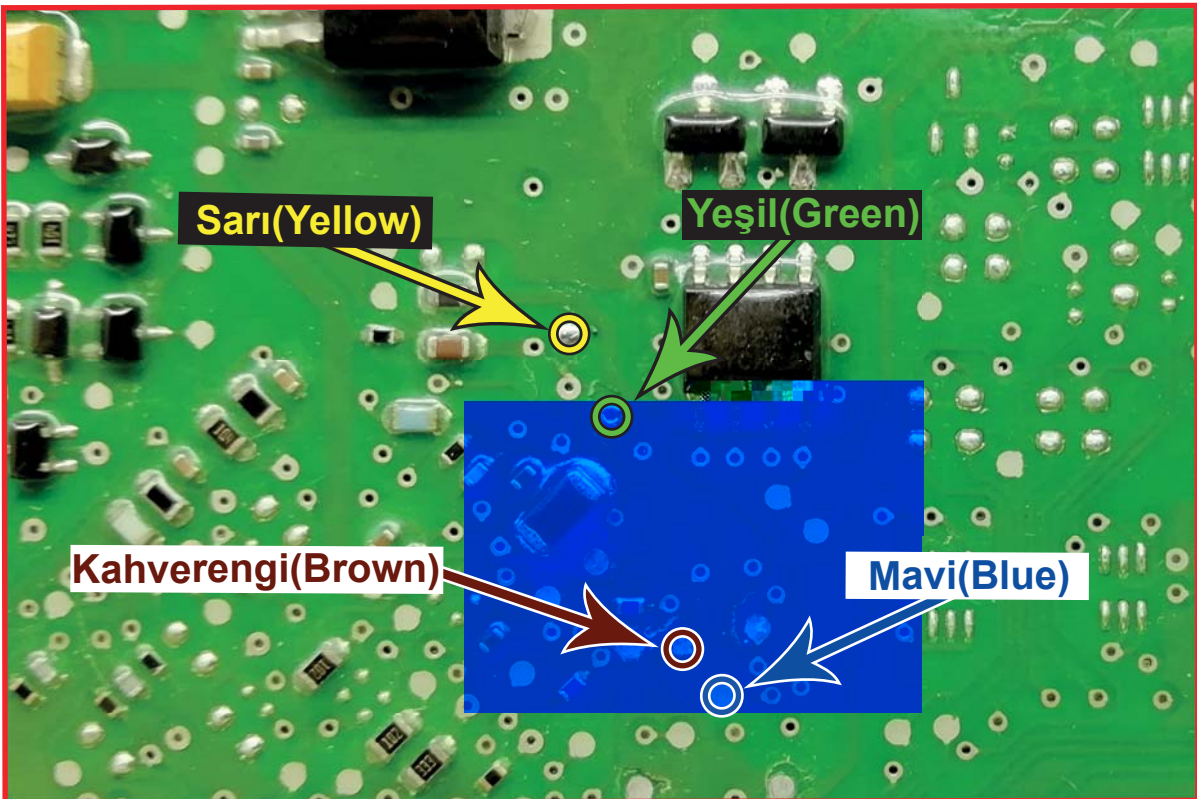
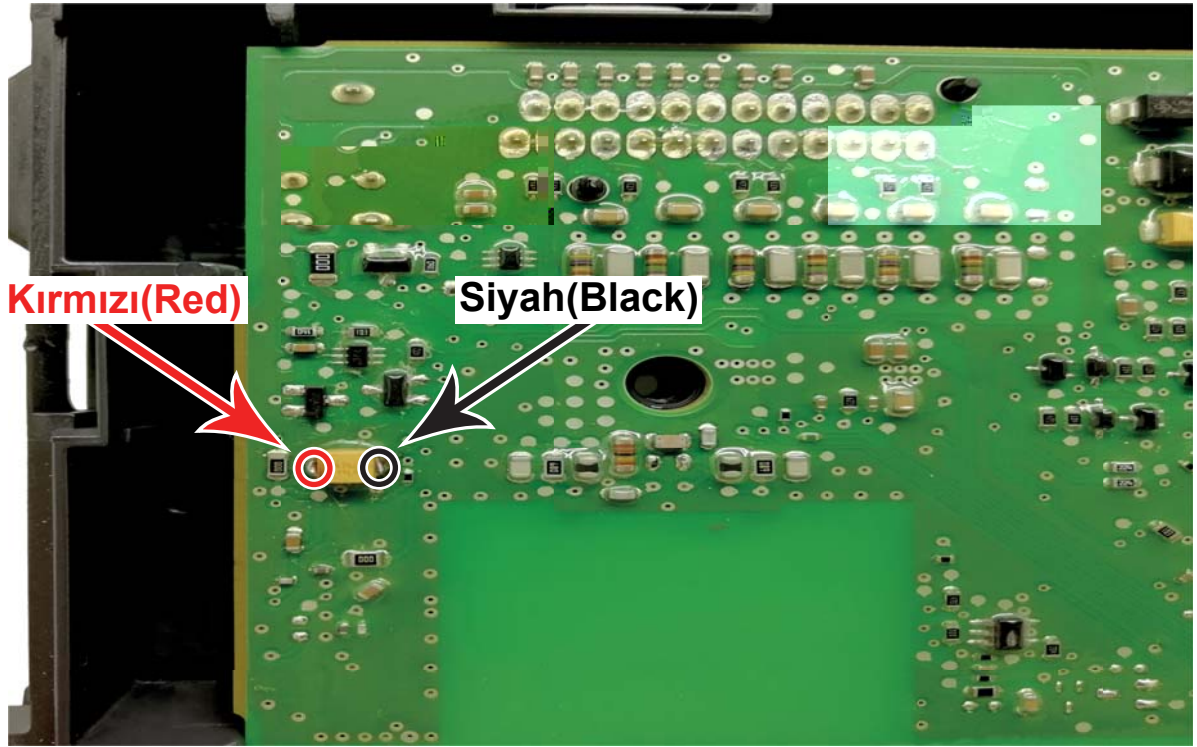
**ARKA KISIM DIĞER SAYFADA
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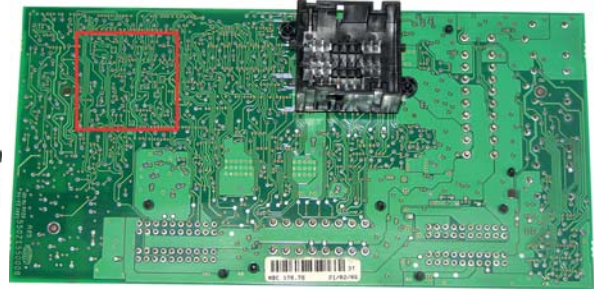
**Module 258; Renault Clio 4
NEC 70F3633, QFP, 176pin**

ZFH-C06 CABLE(6 Pin)

TIP 2 / TYPE 2



Module 13; Fiat, Lancia, Alfa Romeo Magneti Marelli BSI
MC9S12DP256, MC9S12DG256(1K79X, 0L01Y), QFP 112 pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)



○ BLACK CABLE(SİYAH KABLO)

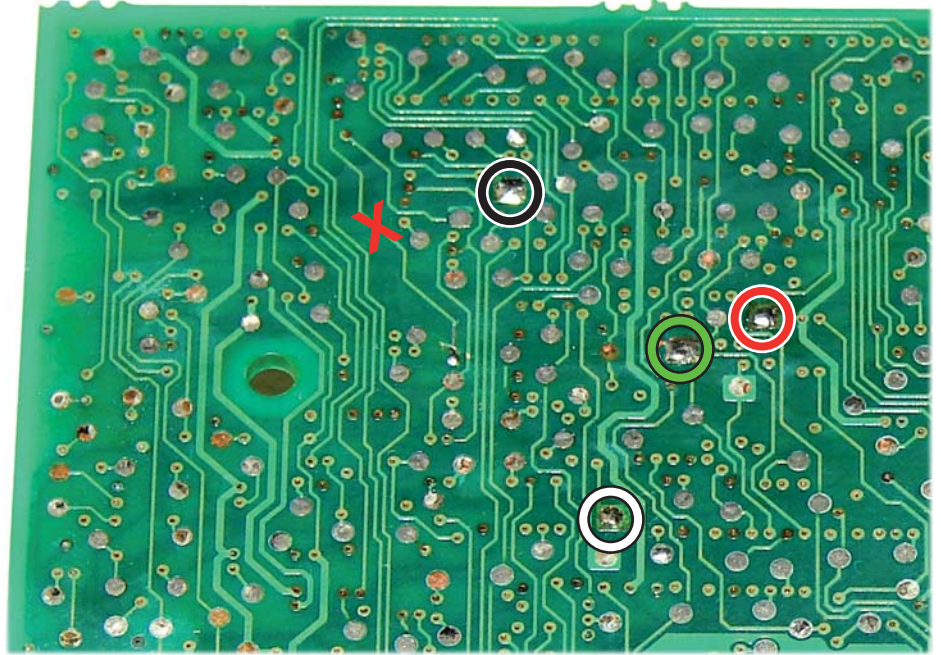
○ RED CABLE(KIRMIZI KABLO)

○ GREEN CABLE(YEŞİL KABLO)

○ WHITE CABLE(BEYAZ KABLO)

X CUT (KESİLECEK)

TYPE 1 / TİP 1



○ BLACK CABLE(SİYAH KABLO)

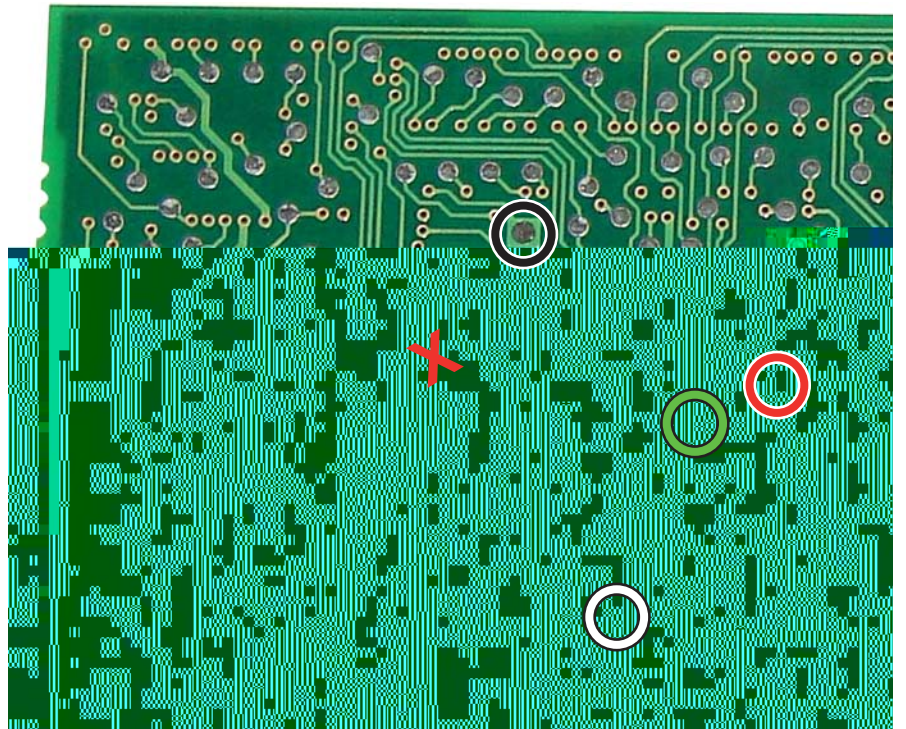
○ RED CABLE(KIRMIZI KABLO)

○ GREEN CABLE(YEŞİL KABLO)

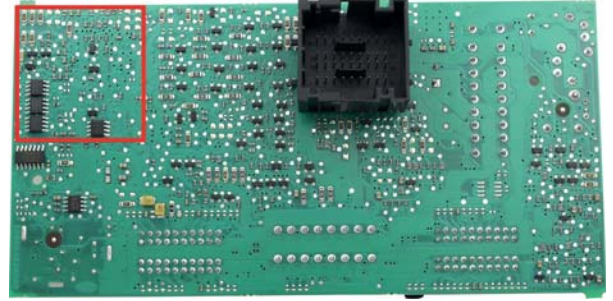
○ WHITE CABLE(BEYAZ KABLO)

X CUT (KESİLECEK)

TYPE 2 / TİP 2

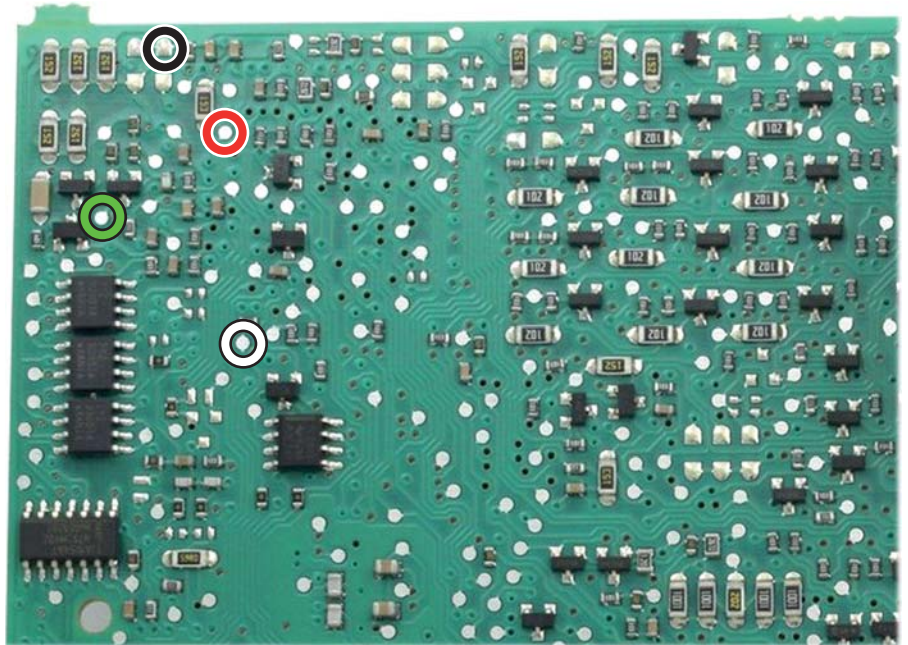


**Module 14; Fiat, Lancia, Alfa Romeo Magneti Marelli BSI
MC68HC912DT128, MC68HC912DG128(0L05H, 3K91D) QFP 112 pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)**



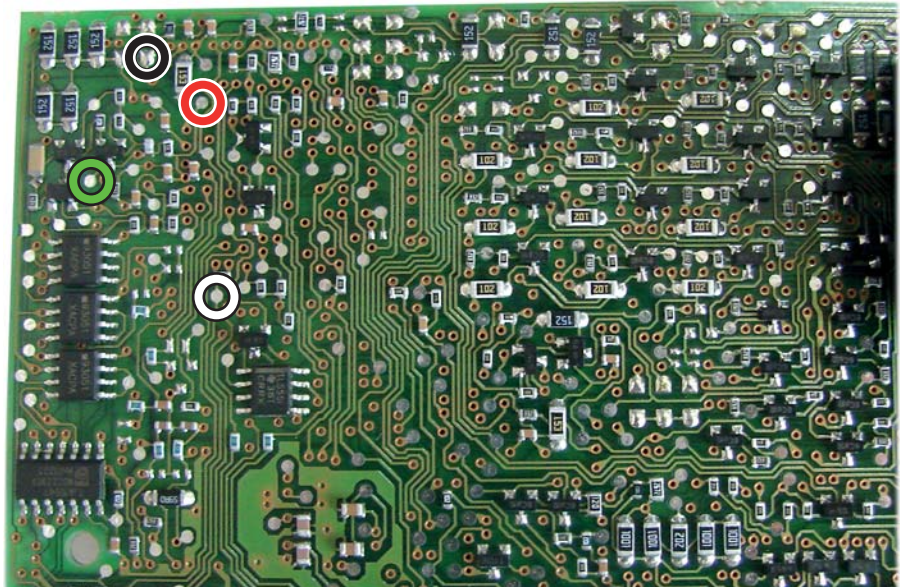
-  BLACK CABLE(SİYAH KABLO)
-  RED CABLE(KIRMIZI KABLO)
-  GREEN CABLE(YEŞİL KABLO)
-  WHITE CABLE(BEYAZ KABLO)

TYPE 1 / TİP 1



-  BLACK CABLE(SİYAH KABLO)
-  RED CABLE(KIRMIZI KABLO)
-  GREEN CABLE(YEŞİL KABLO)
-  WHITE CABLE(BEYAZ KABLO)

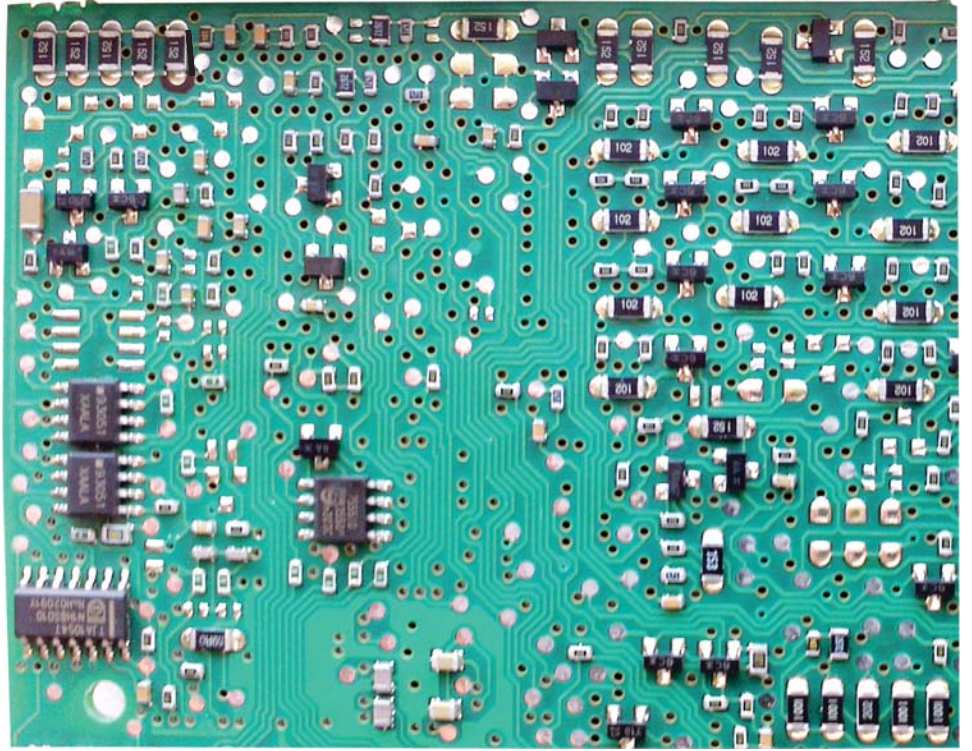
TYPE 2 / TİP 2



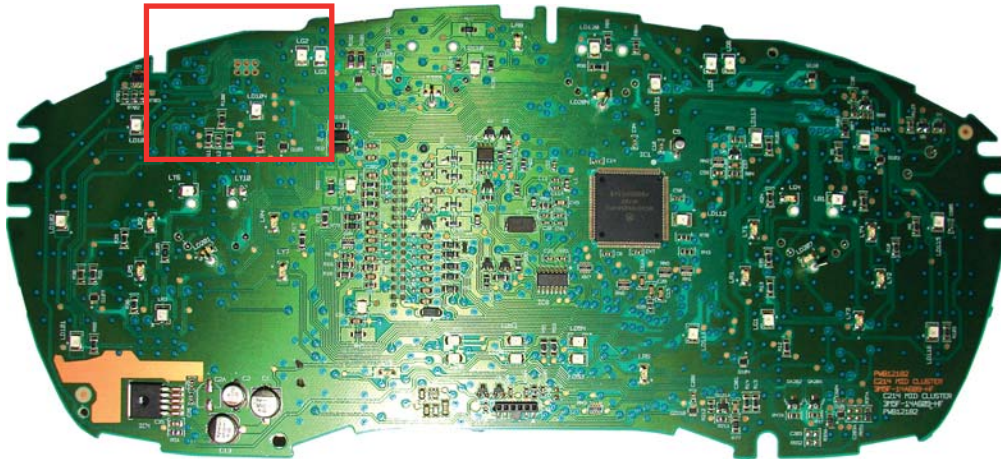
**Module 14; Fiat, Lancia, Alfa Romeo Magneti Marelli BSI
MC68HC912DT128, MC68HC912DG128(OL05H, 3K91D) QFP 112 pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)**

- BLACK CABLE(SİYAH KABLO)
- RED CABLE(KIRMIZI KABLO)
- GREEN CABLE(YEŞİL KABLO)
- WHITE CABLE(BEYAZ KABLO)

TYPE 3 / TİP 3

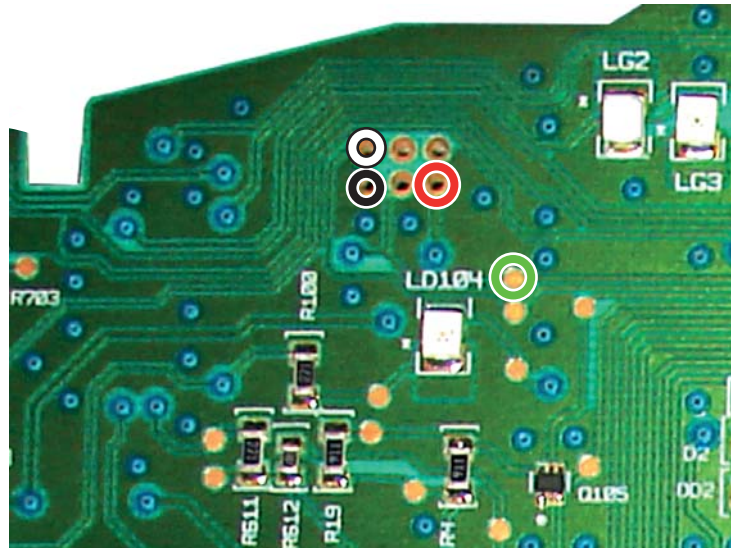


**Module 94; Ford Visteon instrument cluster - 3M5F
MC9S12H256(1K78X) QFP 112 pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)**

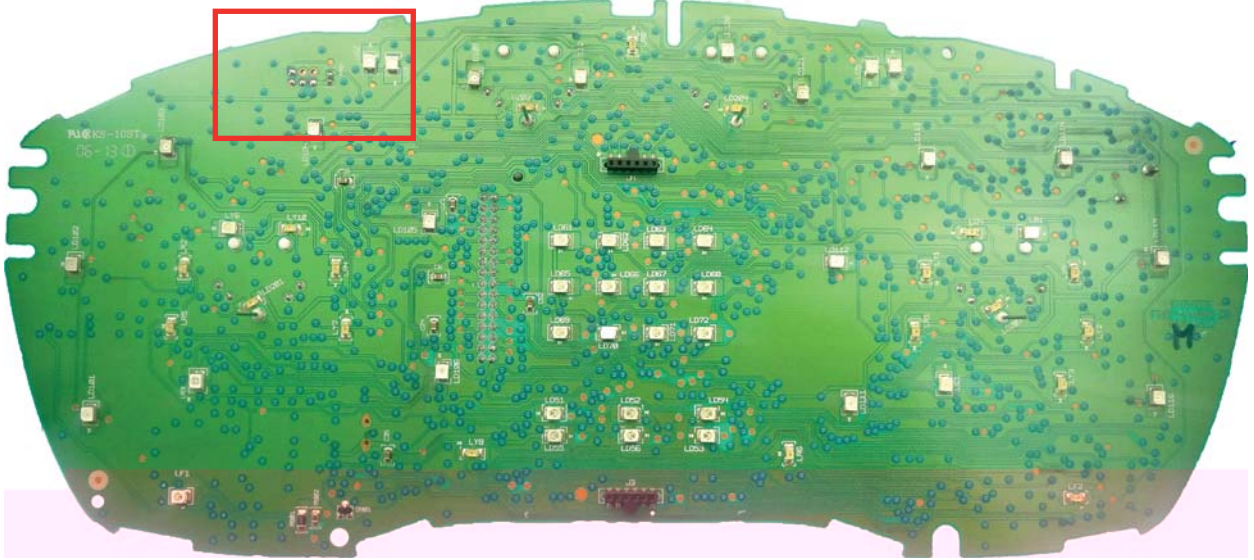


TYPE 1 / TİP 1

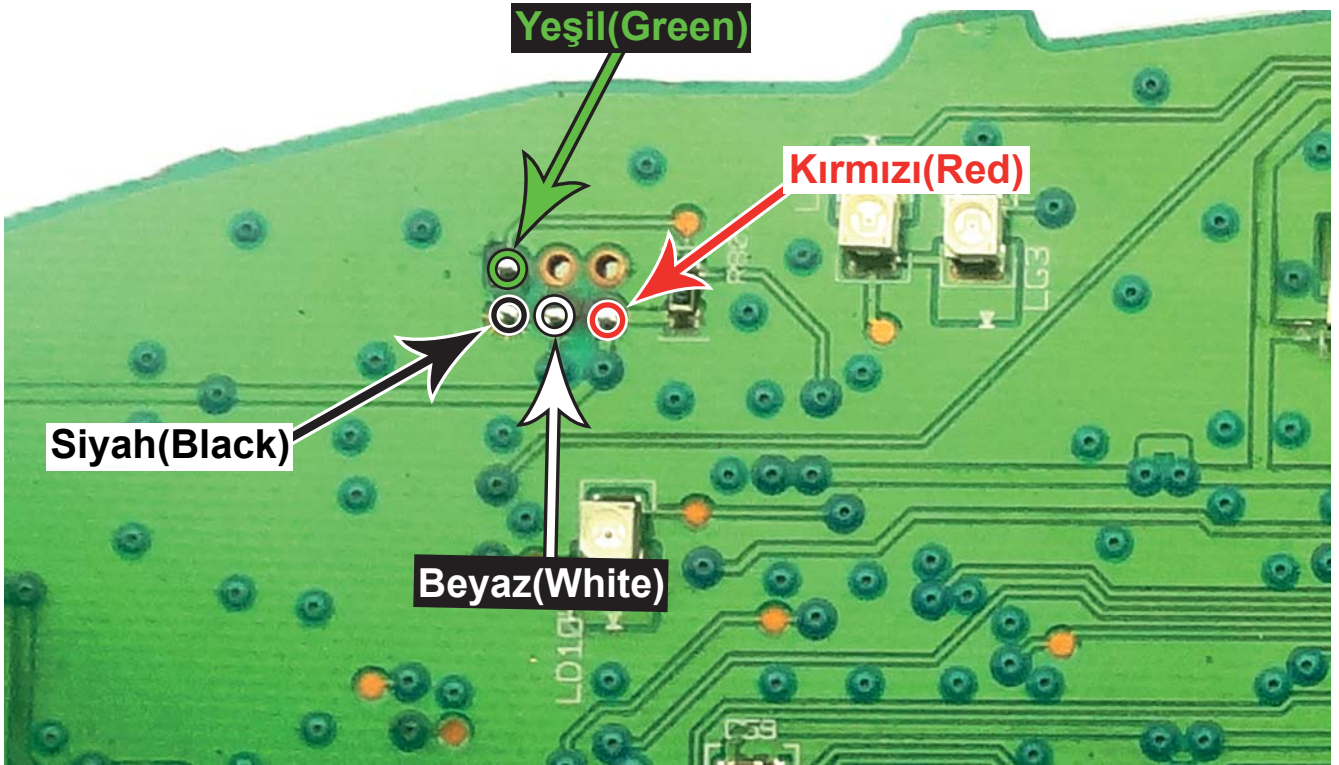
-  BLACK CABLE(SİYAH KABLO)
-  RED CABLE(KIRMIZI KABLO)
-  GREEN CABLE(YEŞİL KABLO)
-  WHITE CABLE(BEYAZ KABLO)



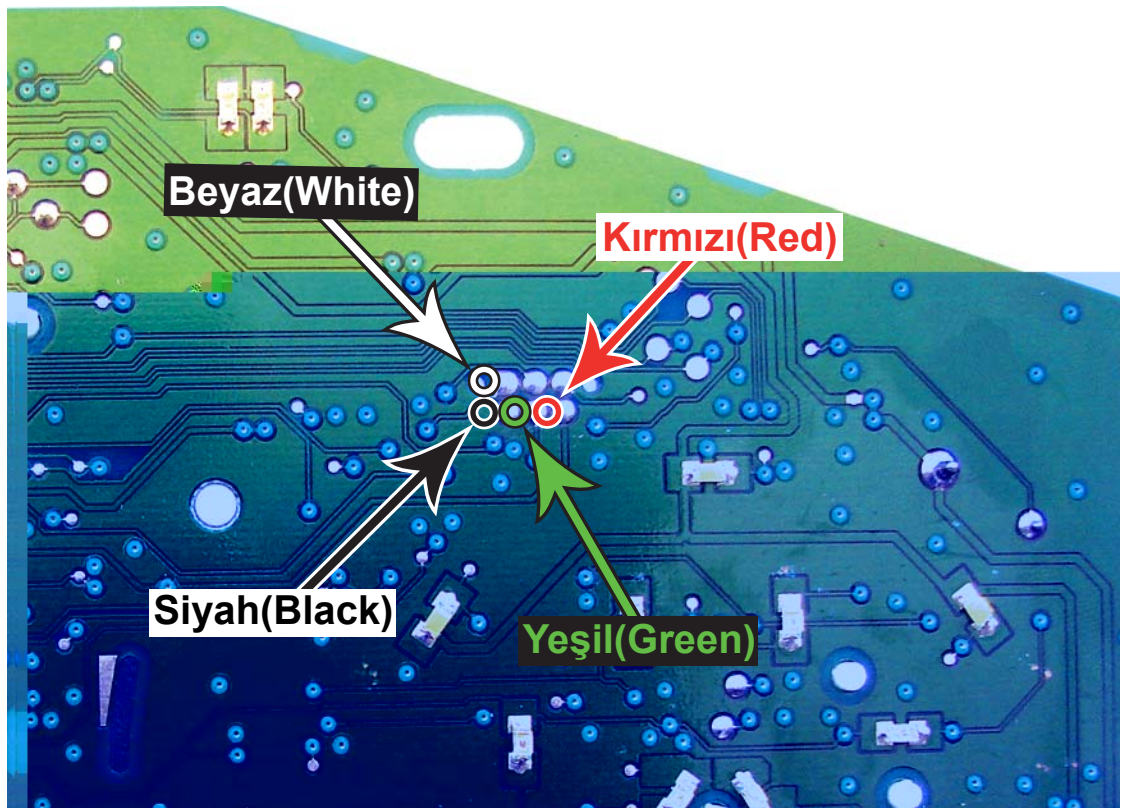
**Module 94; Ford Visteon instrument cluster - 3M5F
MC9S12H256(1K78X) QFP 112 pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)**



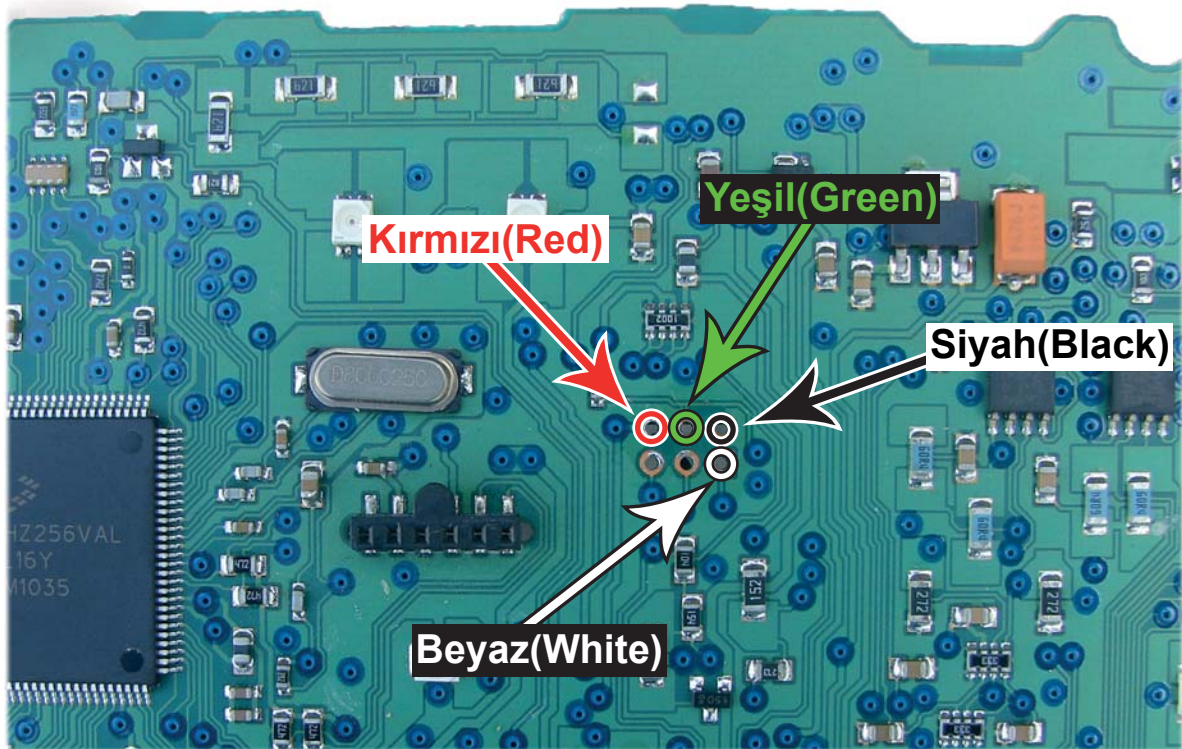
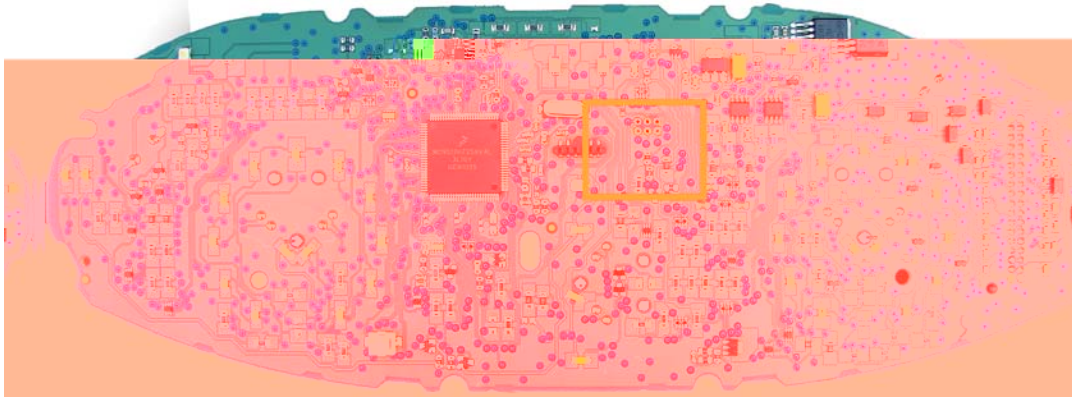
TYPE 2 / TİP 2



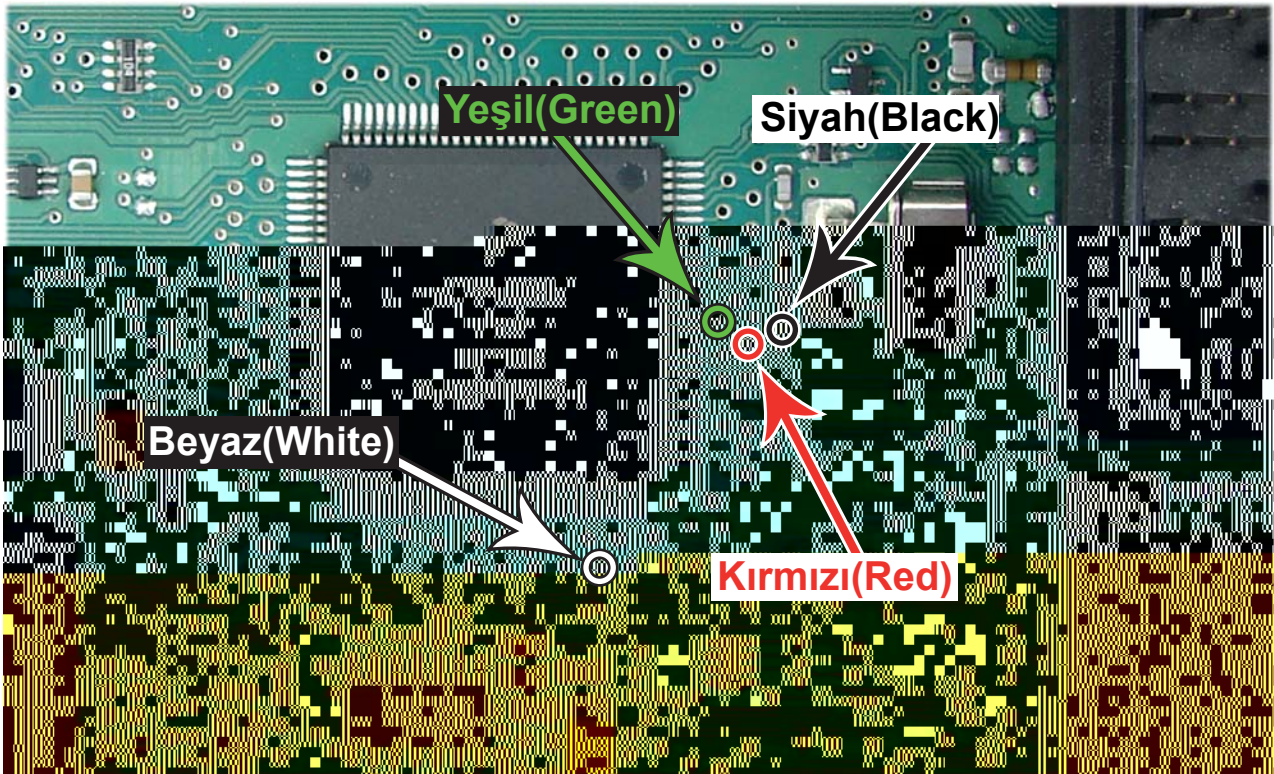
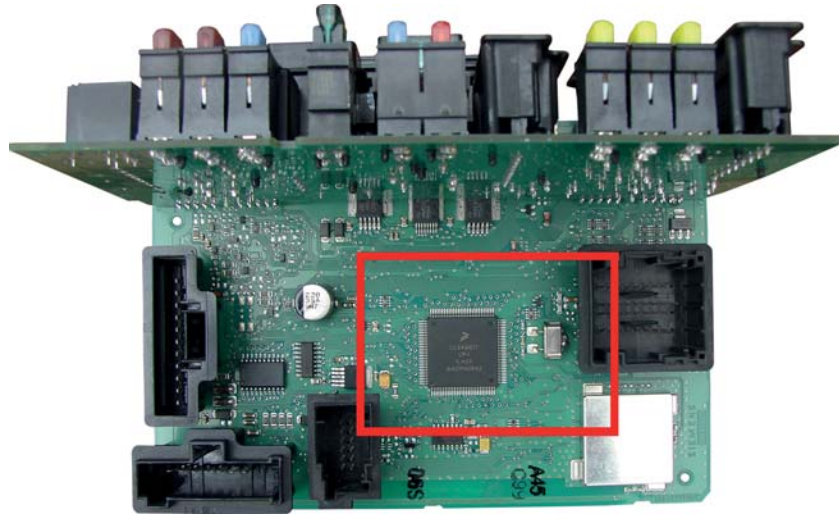
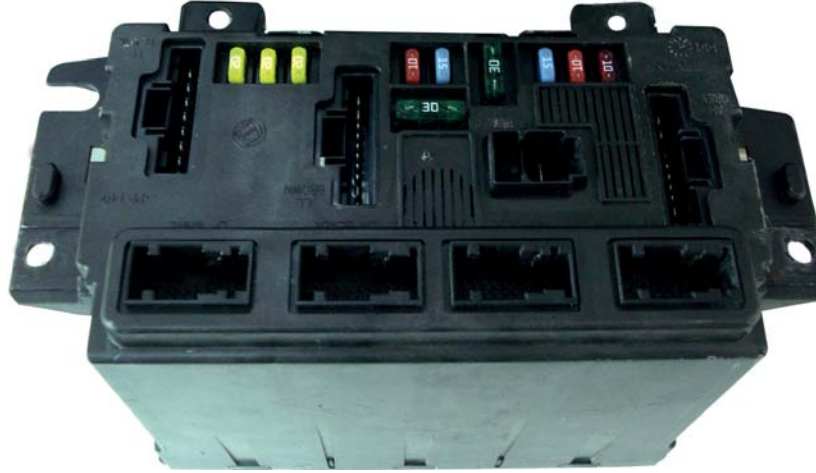
**Module 95; Ford Visteon instrument cluster - 8V4T
MC9S12XHZ512(1M80F) QFP 112 pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)**



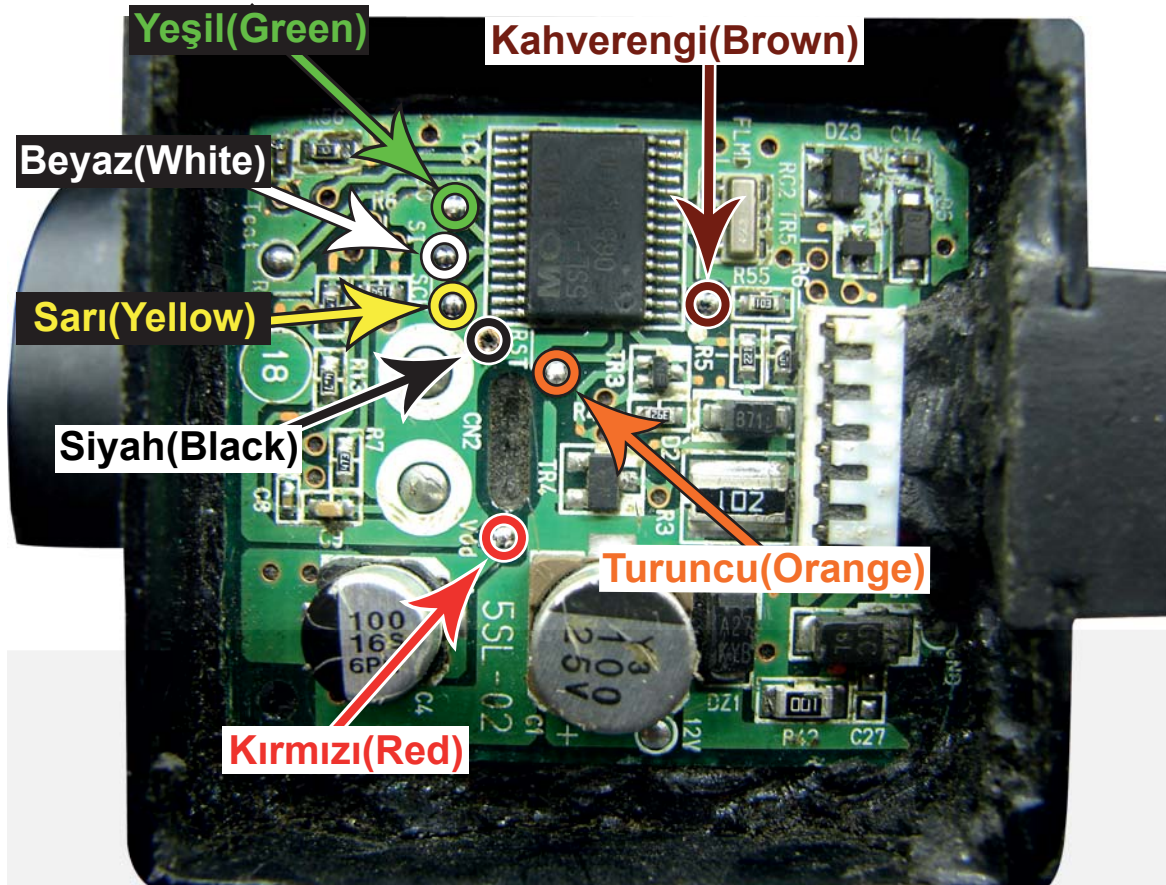
**Module 96; Ford Visteon instrument cluster - 8A6T
MC9S12HZ256VAL(3L16Y) QFP 112 pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)**



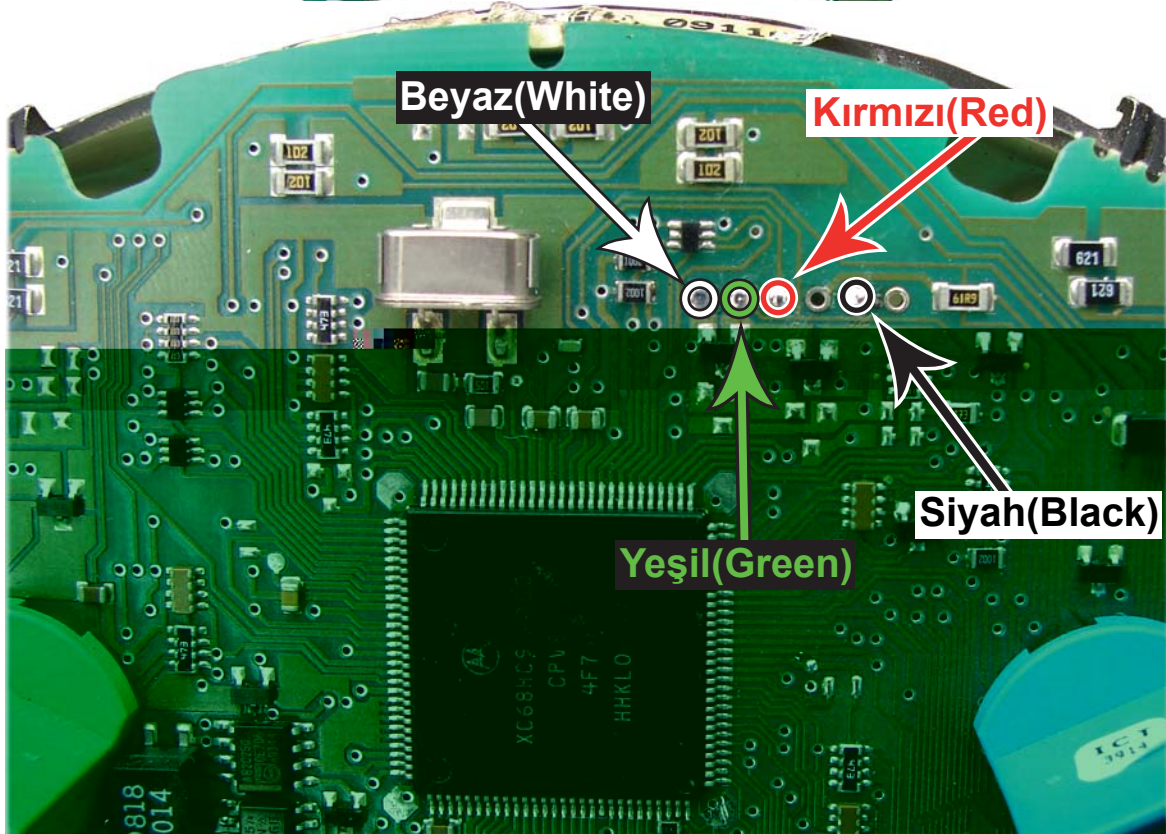
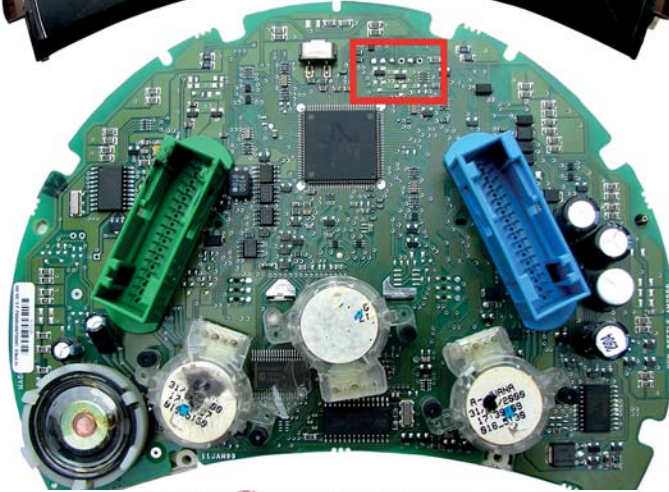
Module 105; Fiat Siemens BSI
MC9S12DG128(1L40K) QFP 112 pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)



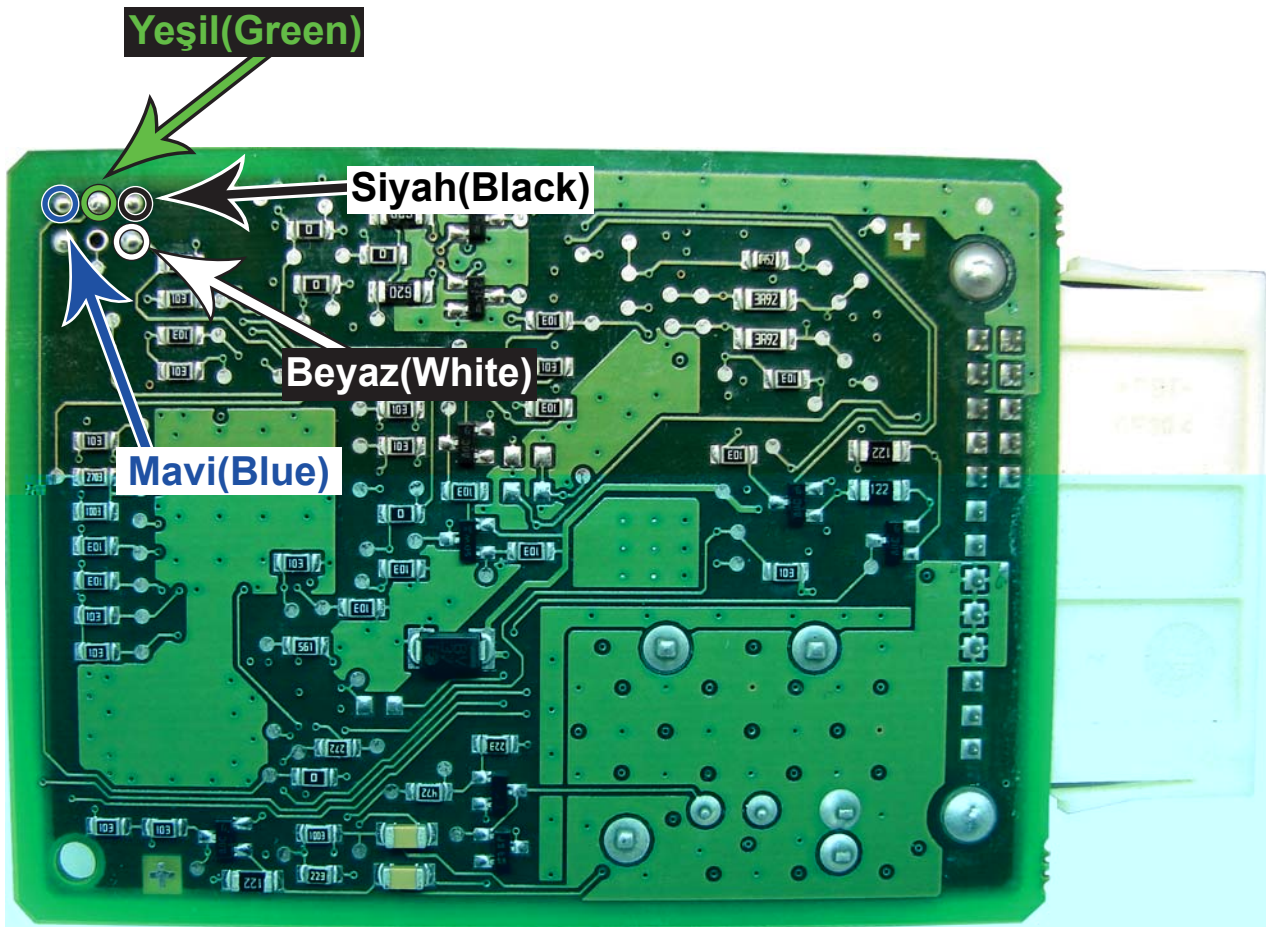
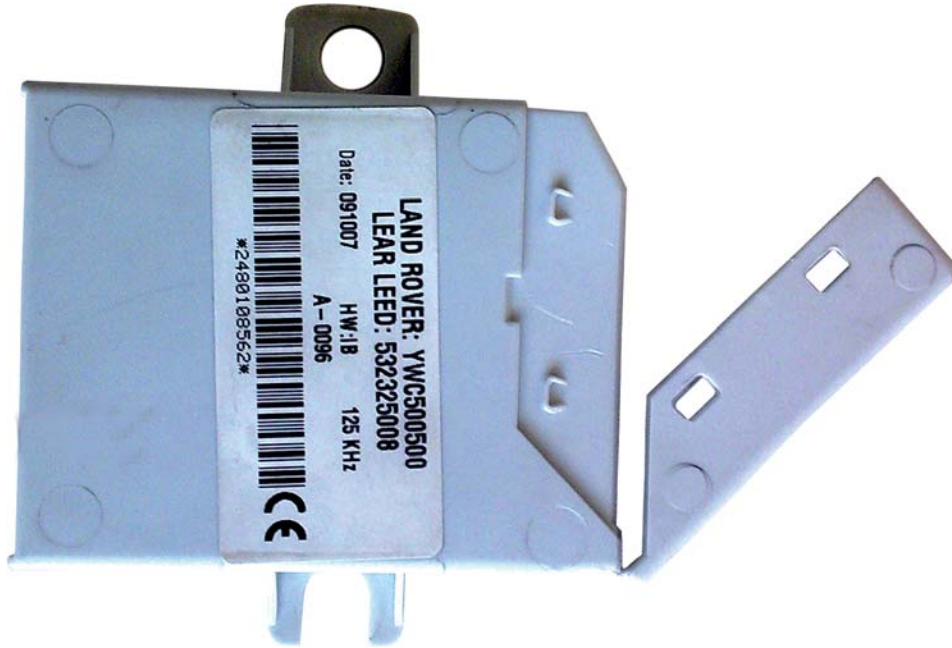
Module 216; Yamaha Motorbike Moric Immo(MCU)
Moric Processor, QFP 30 pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)



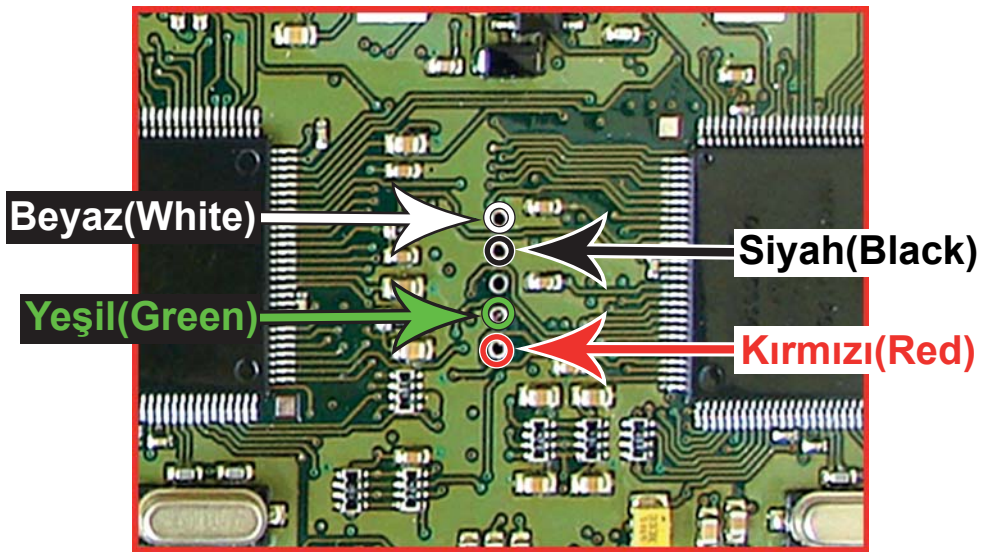
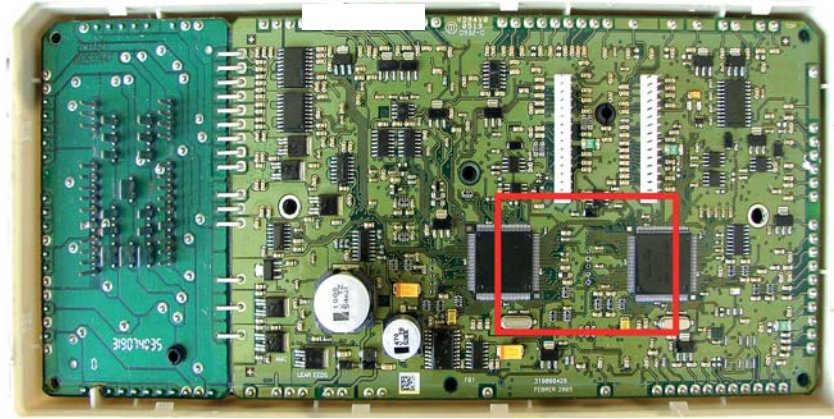
Module 217; Volkswagen Beetle Instrument Cluster
XC68HC9S12D60(4F73K) QFP 112 pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)



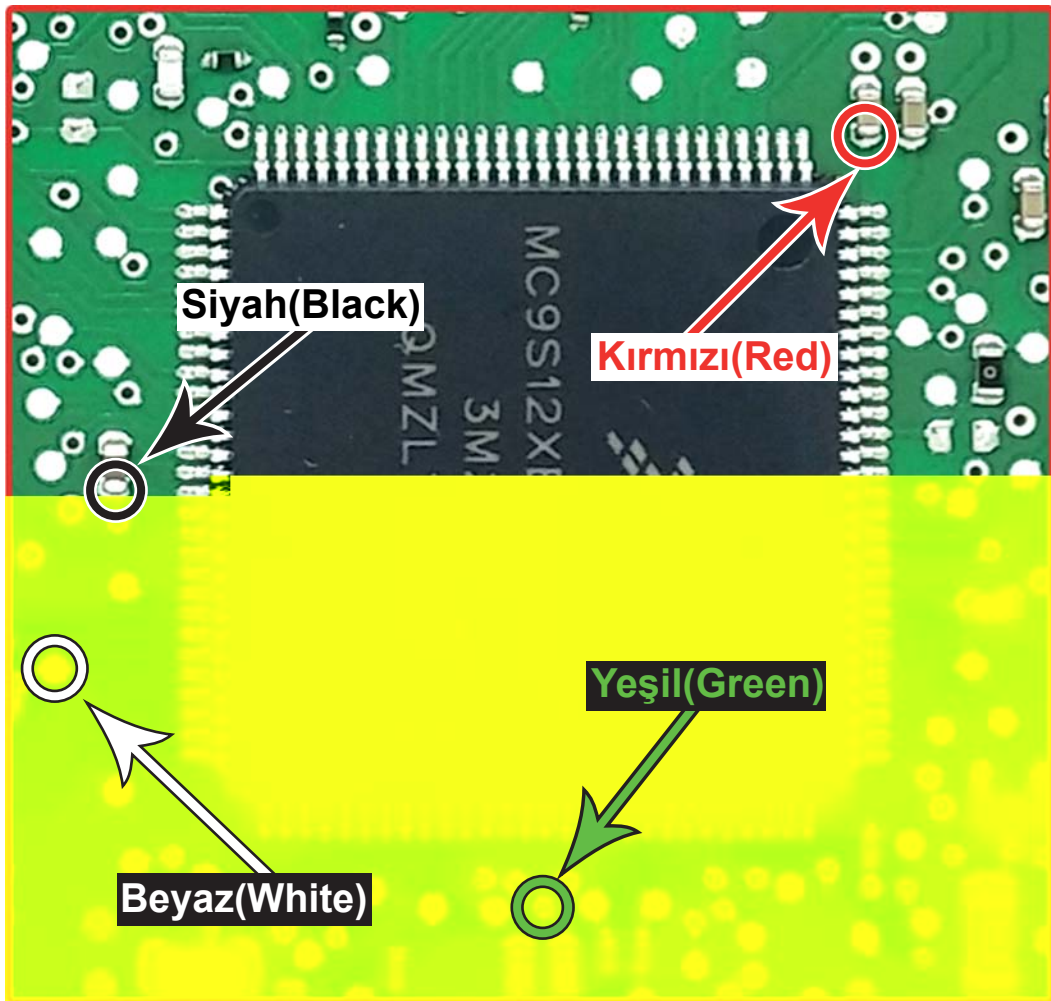
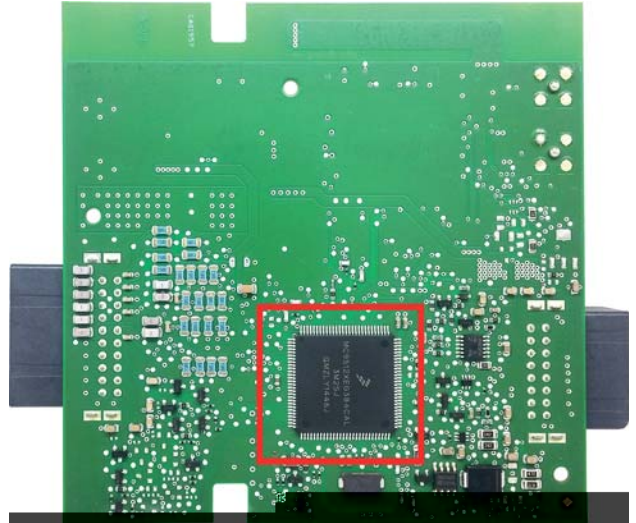
**Module 224; Land Rover, Range Rover immobox
MC9S12DG128(3L40K) secured QFP 112 pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)**



Module 249; Volvo BSI S40,V40,V50 ID 48
MC9S12DP256-MC9S12DG256(1K79X-0L01Y), QFP, 112pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)

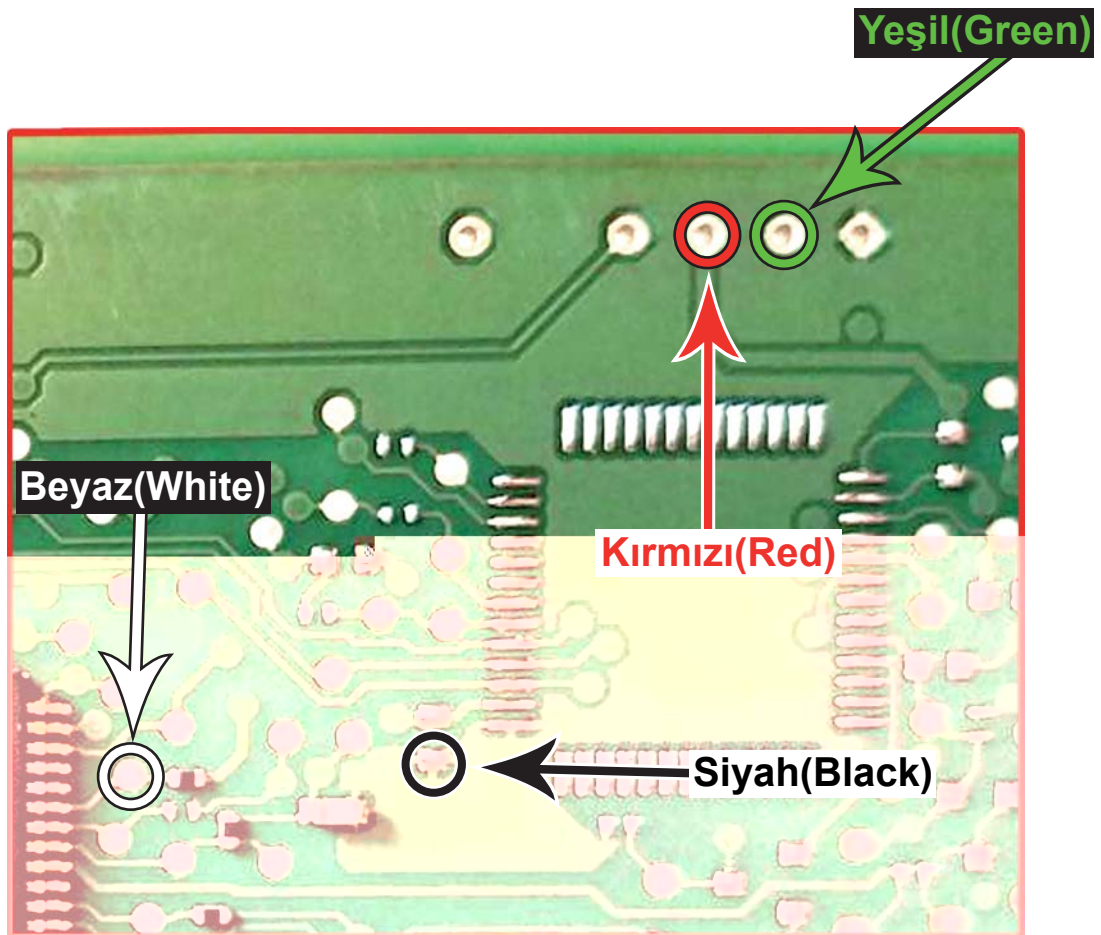
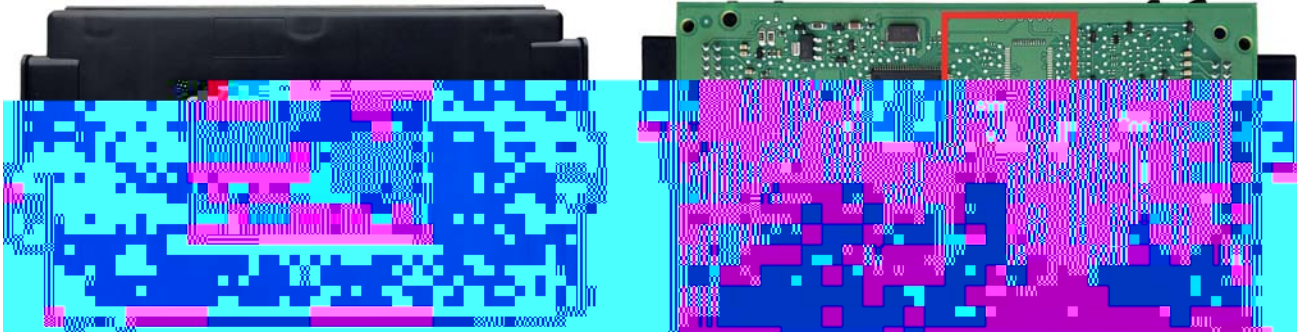


**Module 262; Jeep, Dodge Continental RFHUB
MC9S12XEG384 (3M25J), QFP, 112pin
ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)**



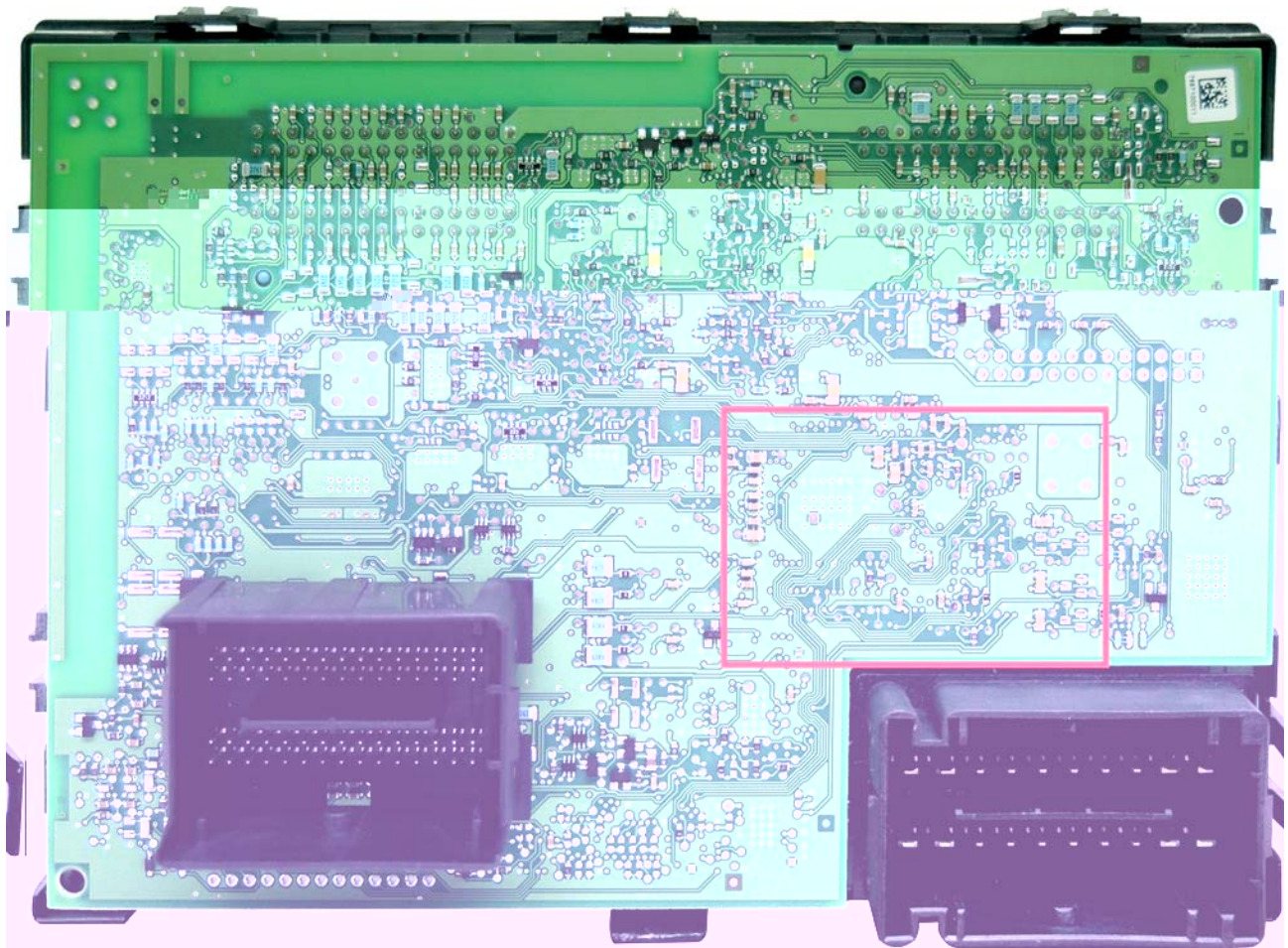
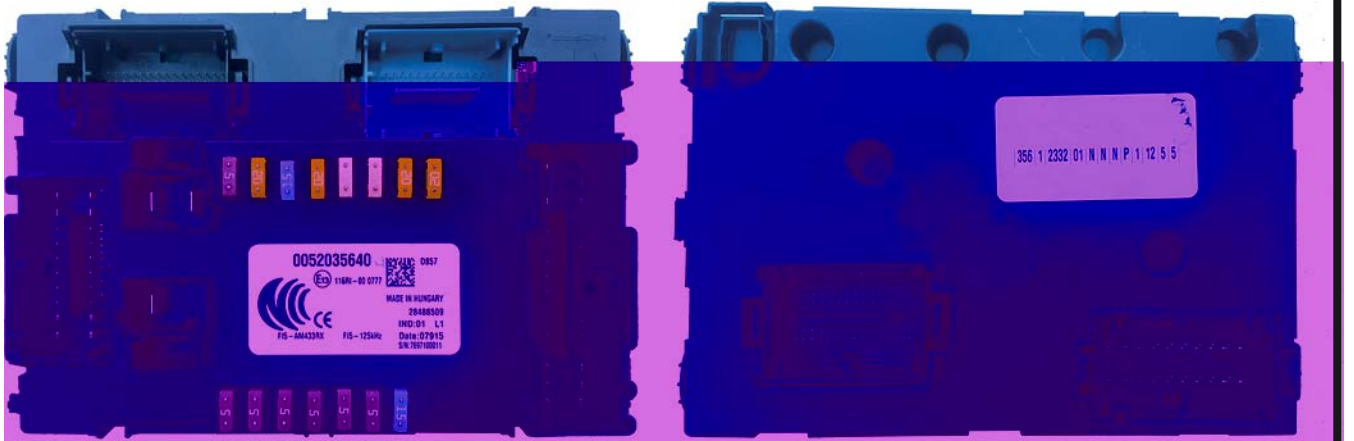
**Module 264; Jeep, Dodge Continental RFHUB
MC9S12XEG384 (1M12S-3M25J), QFP, 112pin**

ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)



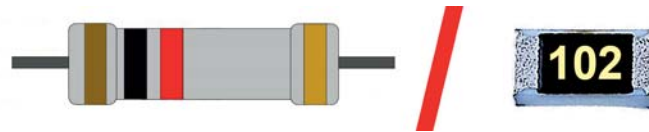
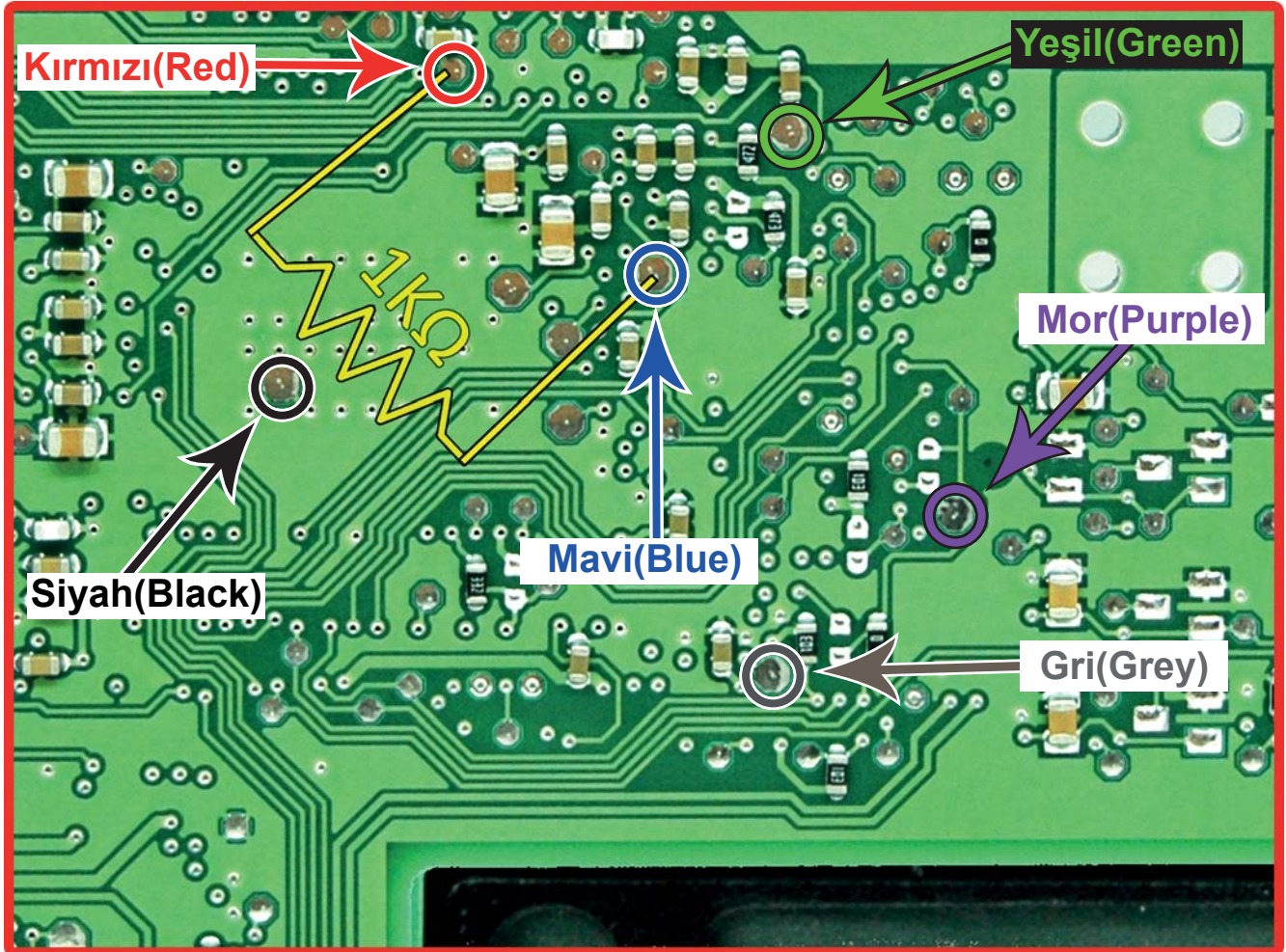
Modül 265: Fiat EGEA DELPHI BSI
MCU: NEC D70F3556, QFP, 176pin

ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)



Modül 265: Fiat EGEA DELPHI BSI
MCU: NEC D70F3556, QFP, 176pin

ZFH-C07 CABLE(10 Pin) / ZFH-C07-2 CABLE(10 Pin)



You must solder 1KΩ Resistor between blue and red cables of the ZFH-C07/ZFH/C07-2 cable.

After Eeprom/MCU application BSI unit must be reinstalled to the vehicle and new key should be programmed via obd.

**Module 10; Fiat, Lancia, Maserati immo110.01/02
MC68HC08AZ32(J66D,1K59H) QFP 64 pin**

ZFH-C08 CABLE(20 Pin) / ZFH-C08-2 CABLE(20 Pin)



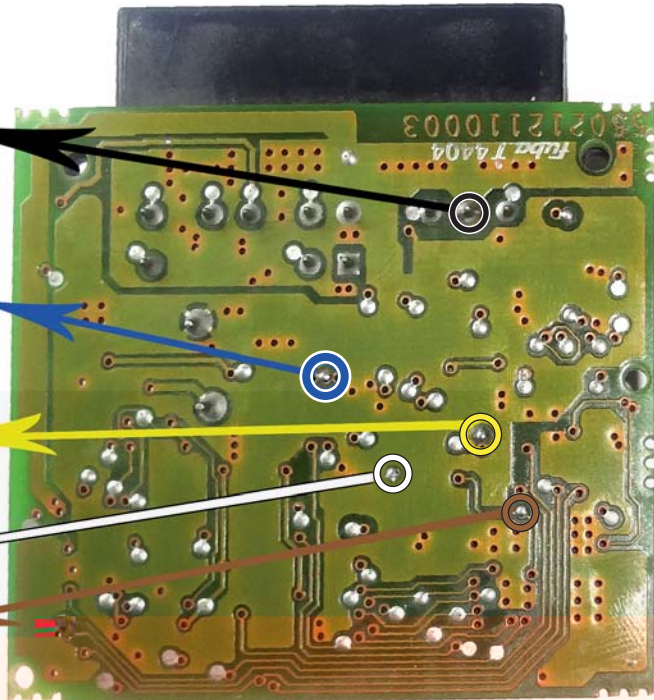
[1] / [G1] Siyah(Black)

[15] / [G2] Mavi(Blue)

[15] / [G2] Mavi(Blue)

[12] / [G2] Beyaz(White)

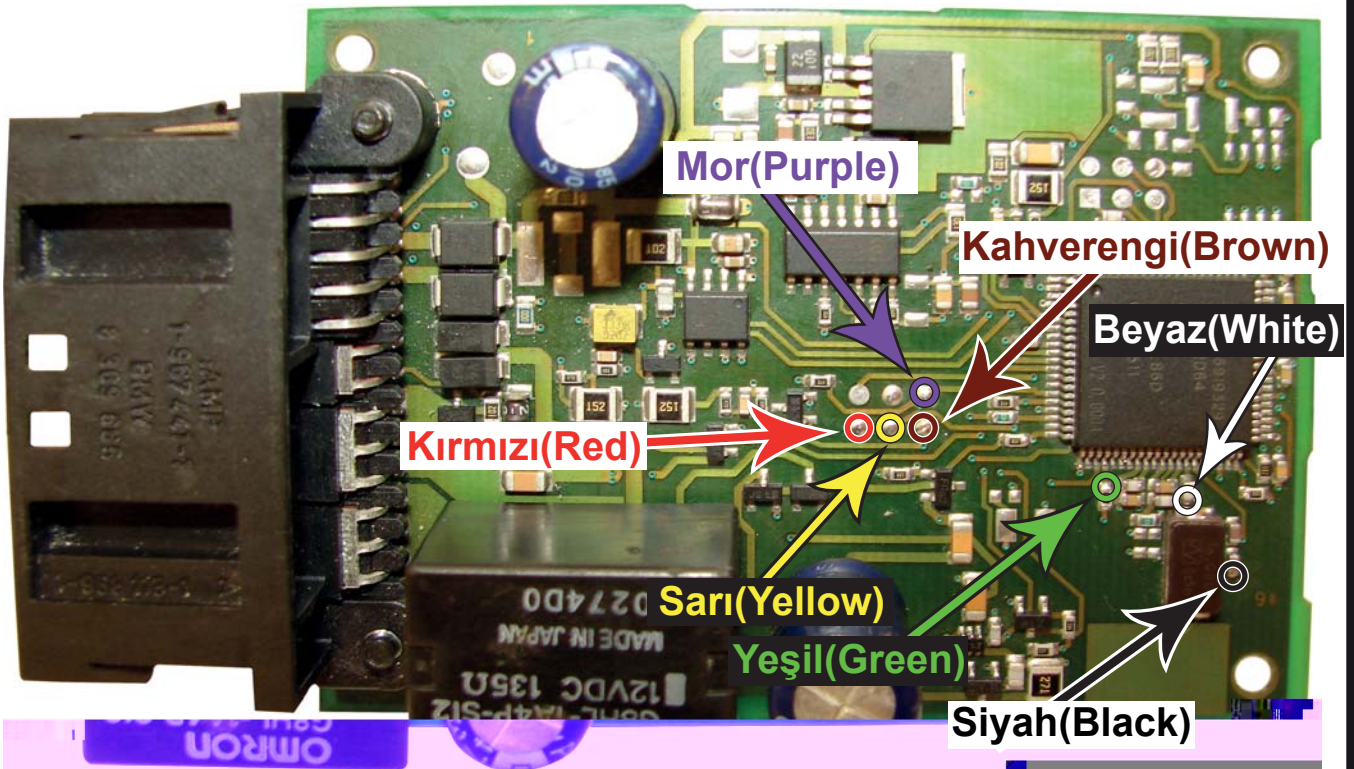
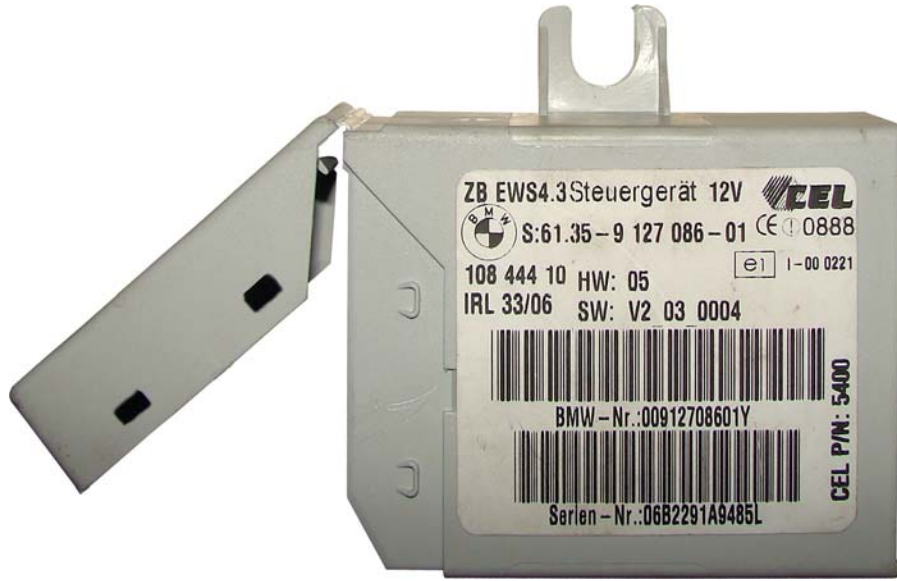
[10] / [G1] Kahverengi(Brown)



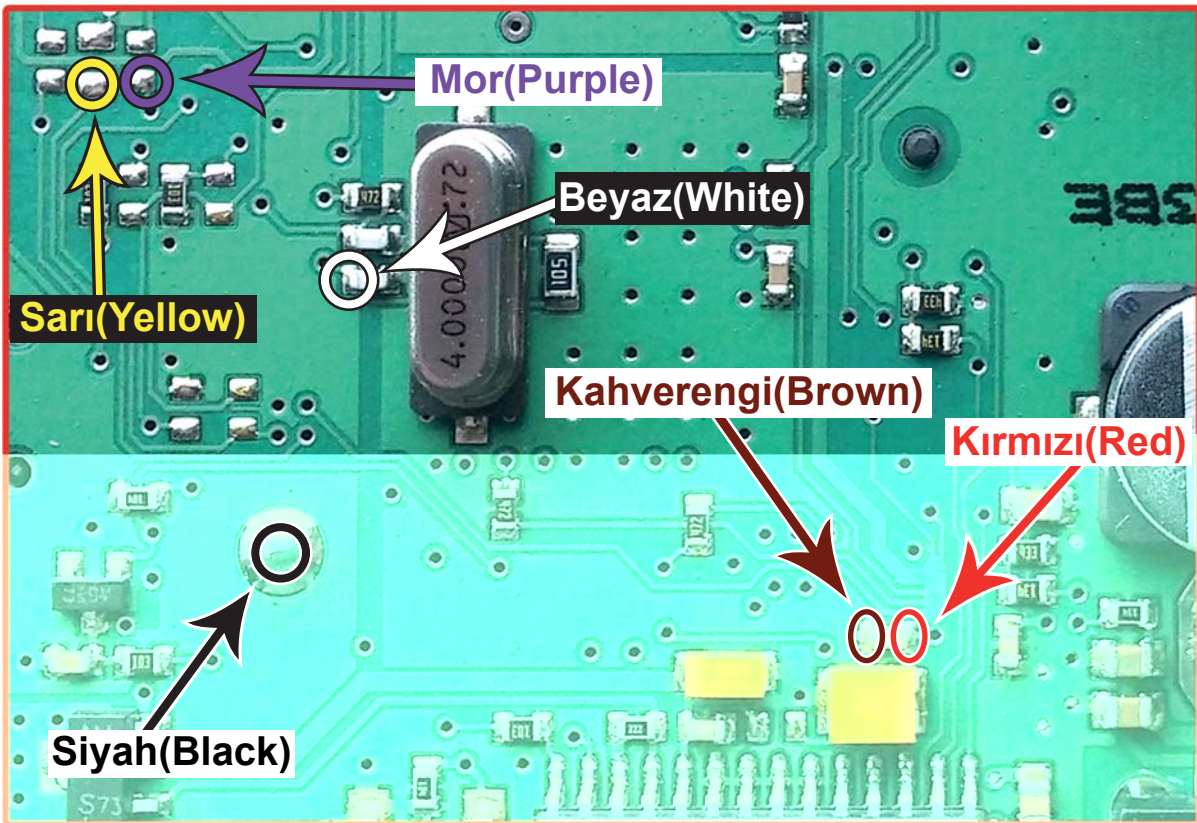
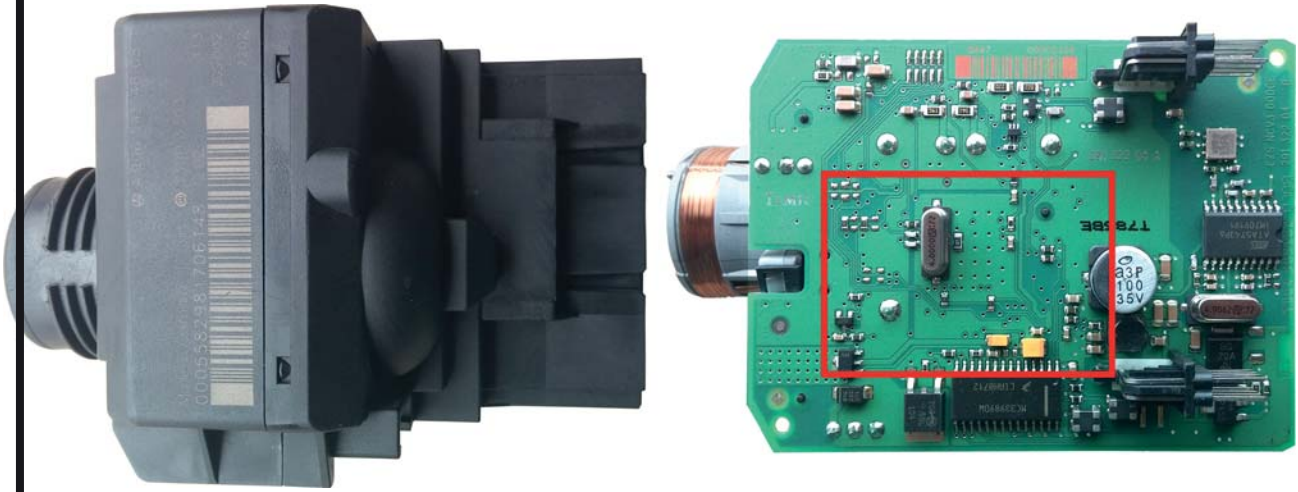
ZFH-C08 CABLE(20 Pin) / ZFH-C08-2 CABLE(20 Pin)

Module 108; BMW X3/X5 EWS4 "MC9S12D64" (2L86D)

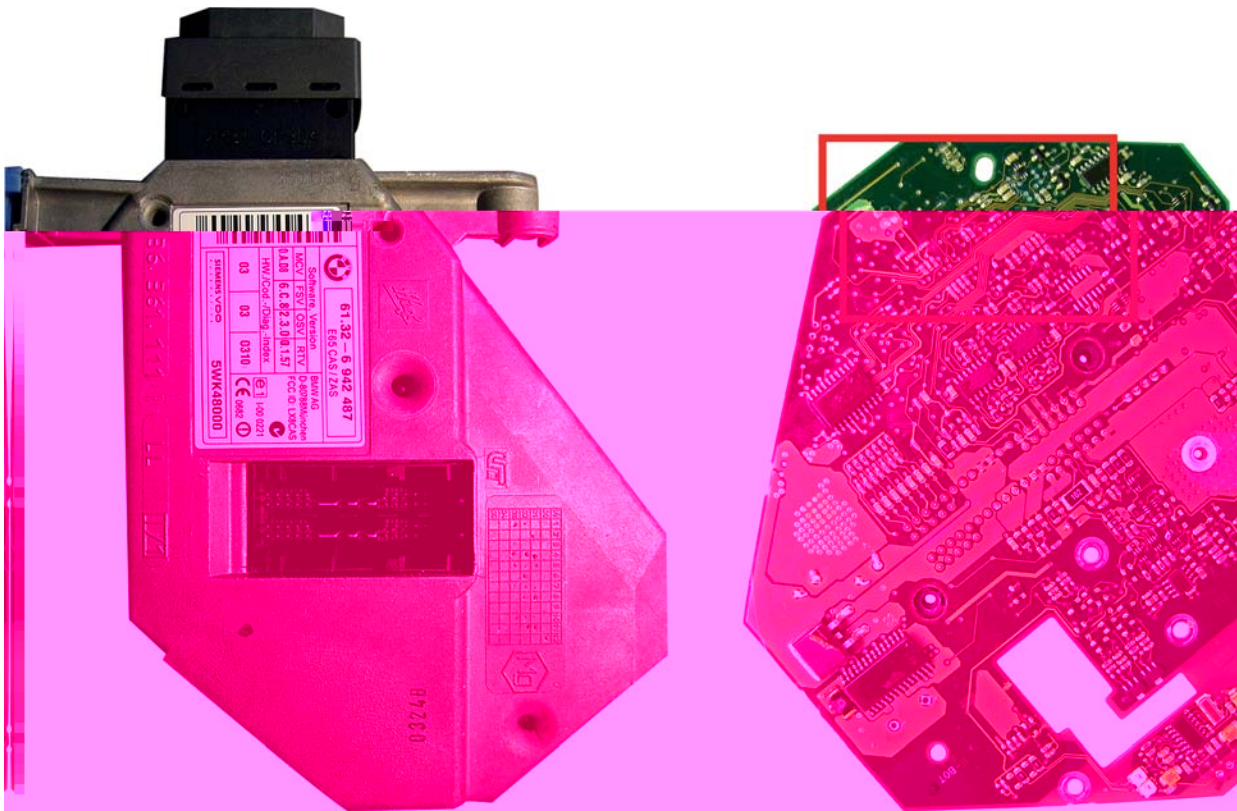
ZFH-EA7 SECURITY MCU ADAPTER



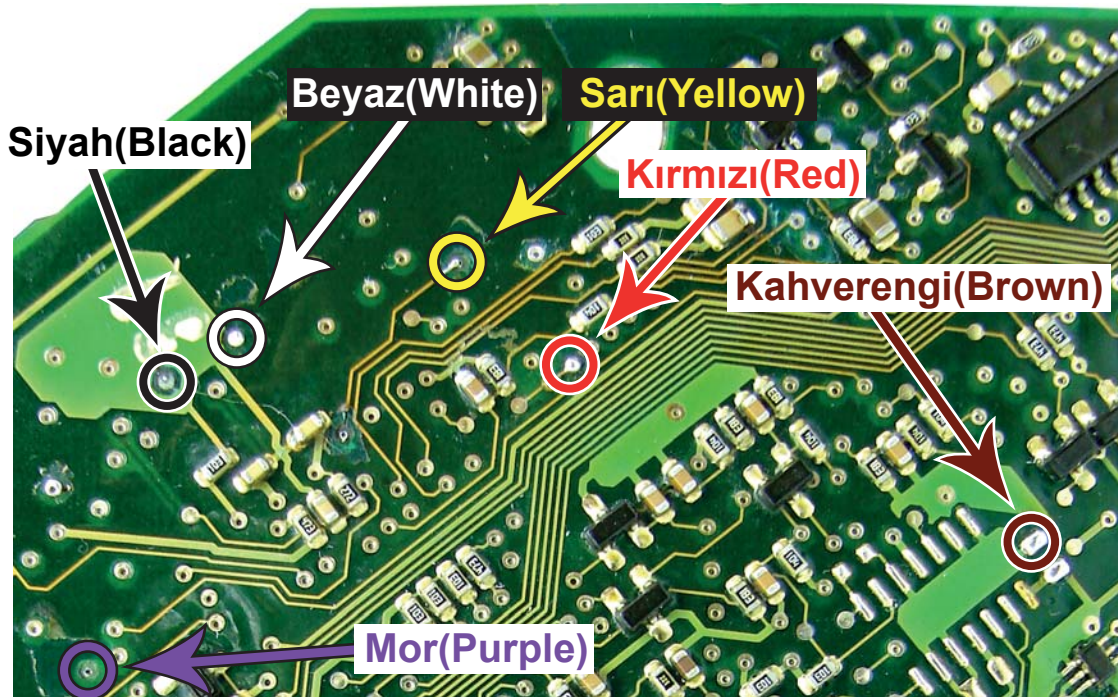
Module 167; VW CRAFTER EZS
MC9S12DP256-MC9S12DG256(0L01Y-1K79X),
MC9S12XDP512(1L15Y) QFP, 112 Pin
ZFH-EA7 SECURITY MCU ADAPTER



**Module 202; BMW 7 Series CAS
MC9S12DG128(0K50E) QFP, 112 Pin
ZFH-EA7 SECURITY MCU ADAPTER**

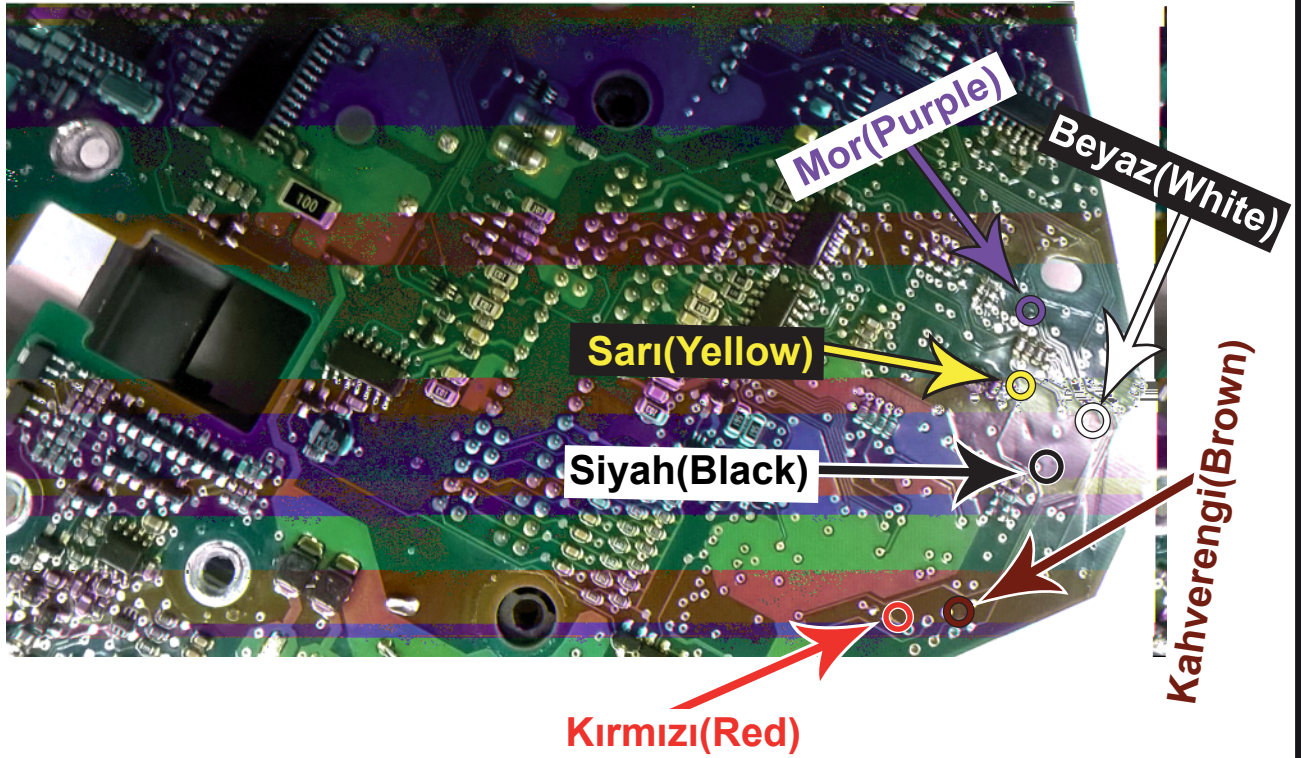


TIP 1 / TYPE 1



**Module 202; BMW 7 Series CAS
MC9S12DG128(0K50E) QFP, 112 Pin
ZFH-EA7 SECURITY MCU ADAPTER**

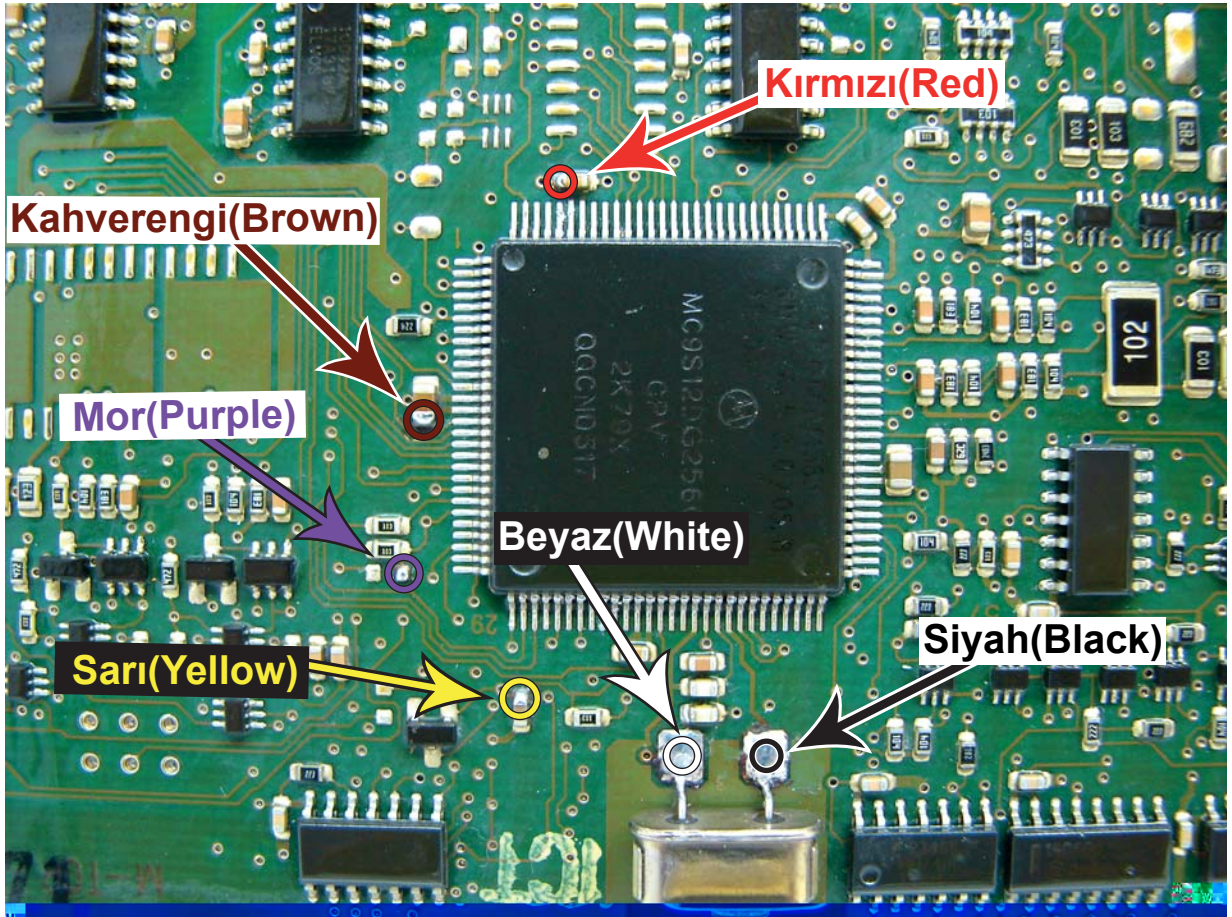
TIP 2 / TYPE 2



**Module 203; BMW 1,3,5,6 Series CAS2 White
MC9S12DP256-MC9S12DG256(2K79X-0L01Y) QFP, 112 Pin
ZFH-EA7 SECURITY MCU ADAPTER**



ÖN (FRONT)

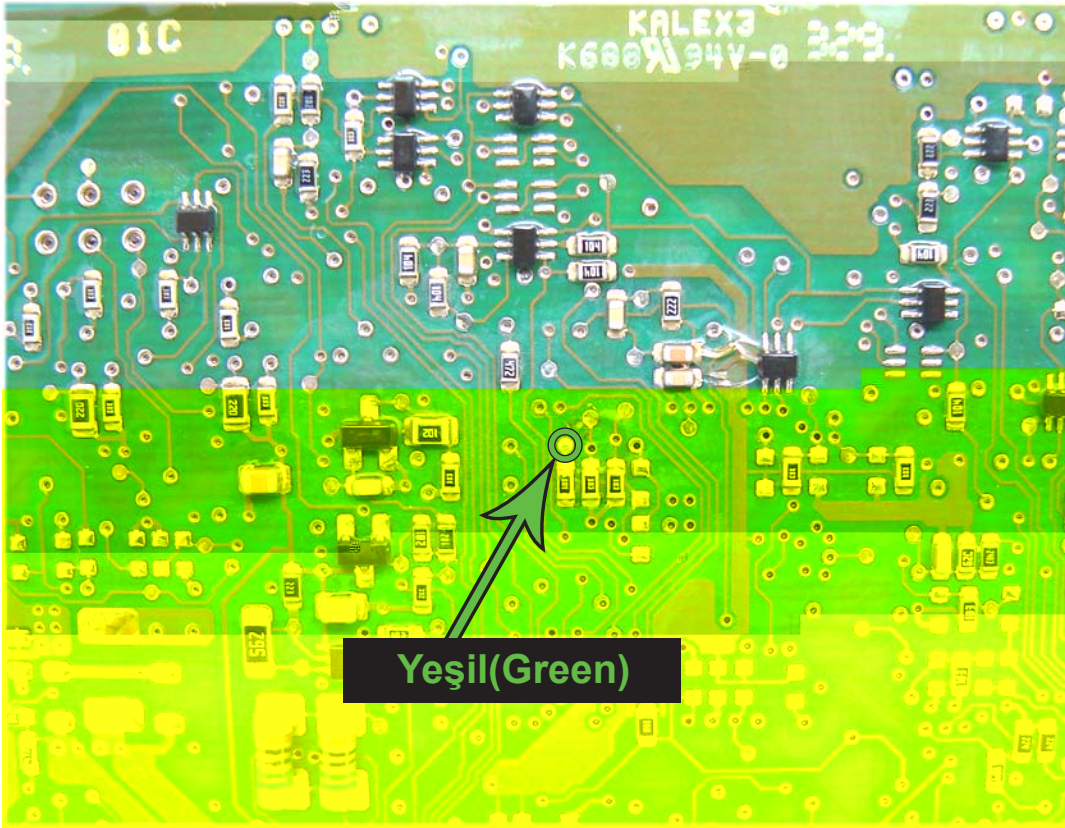


**ARKA KISIM DİĞER SAYFADA
(SEE THE NEXT PAGE FOR BACK SIDE)**

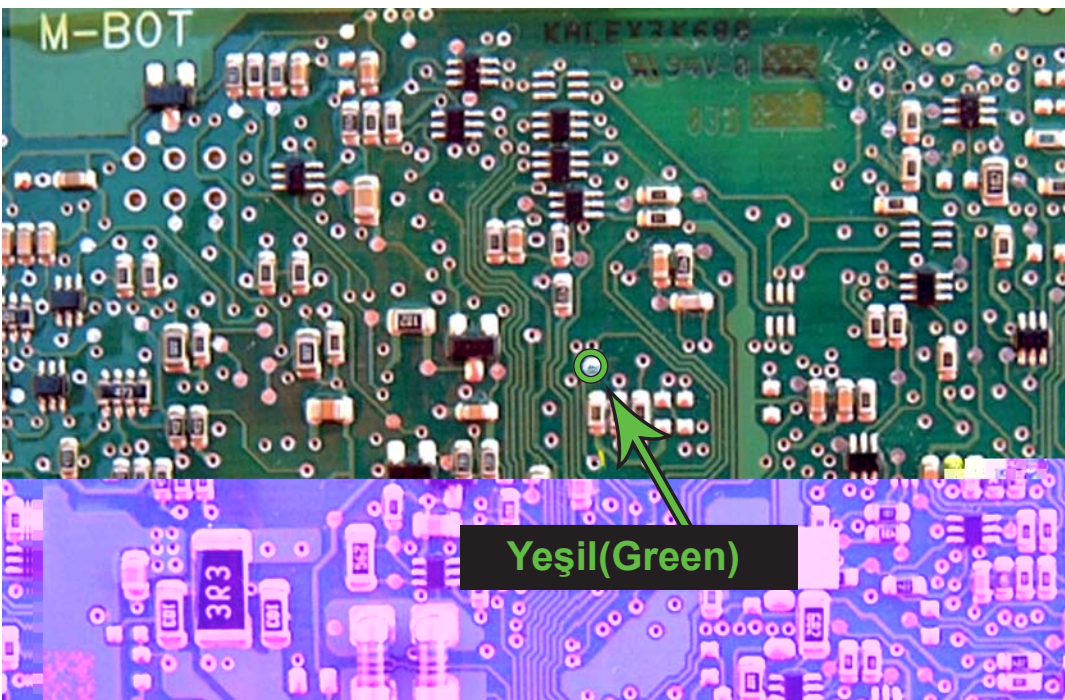


**Module 203; BMW 1,3,5,6 Series CAS2 White
MC9S12DP256-MC9S12DG256(2K79X-0L01Y) QFP, 112 Pin**

ZFH-EA7 SECURITY MCU ADAPTER



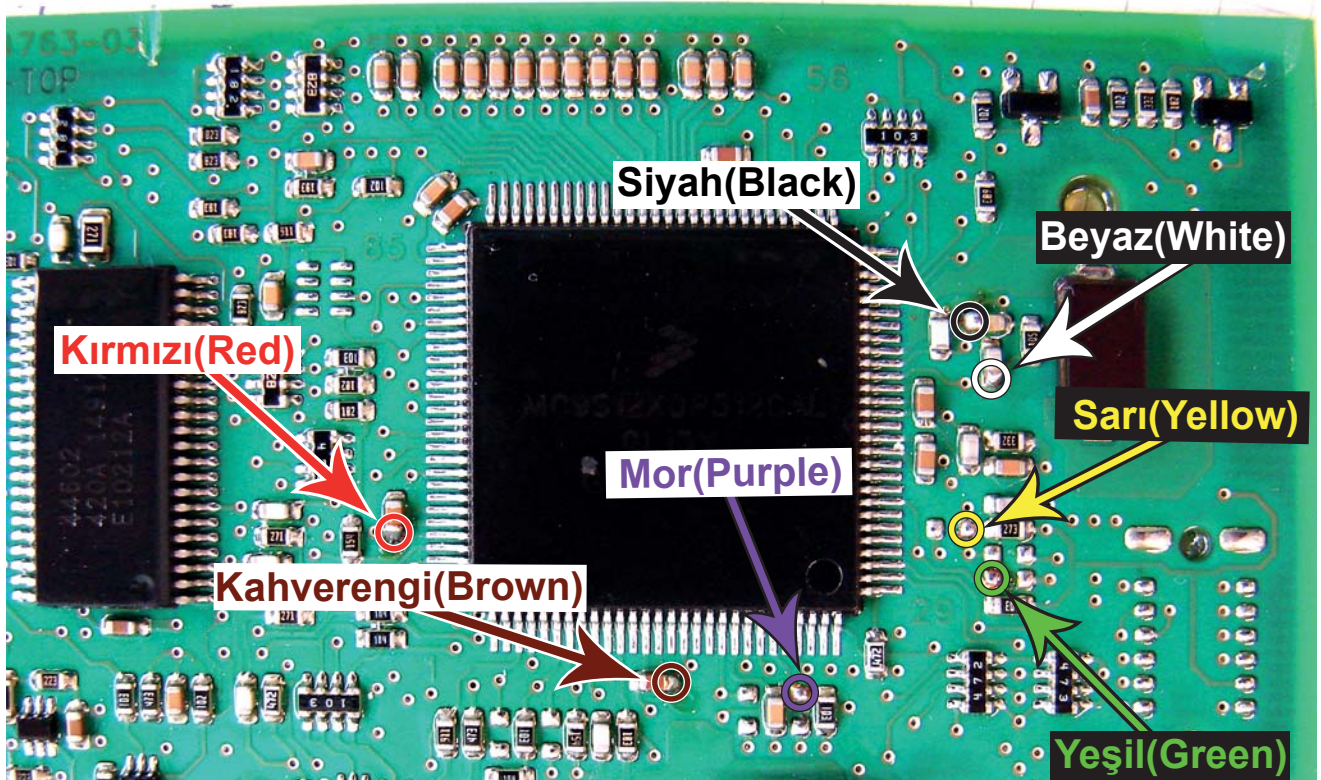
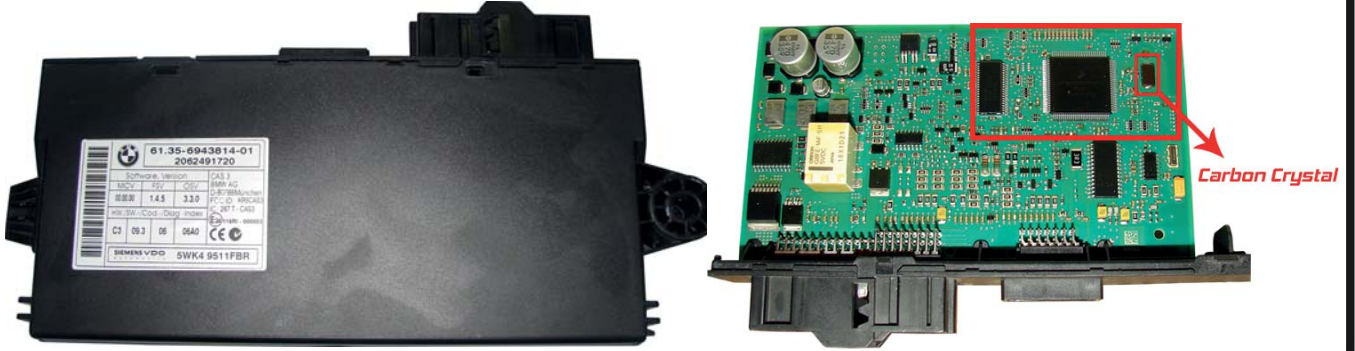
ARKA (BACK) TİP 1 / TYPE 1



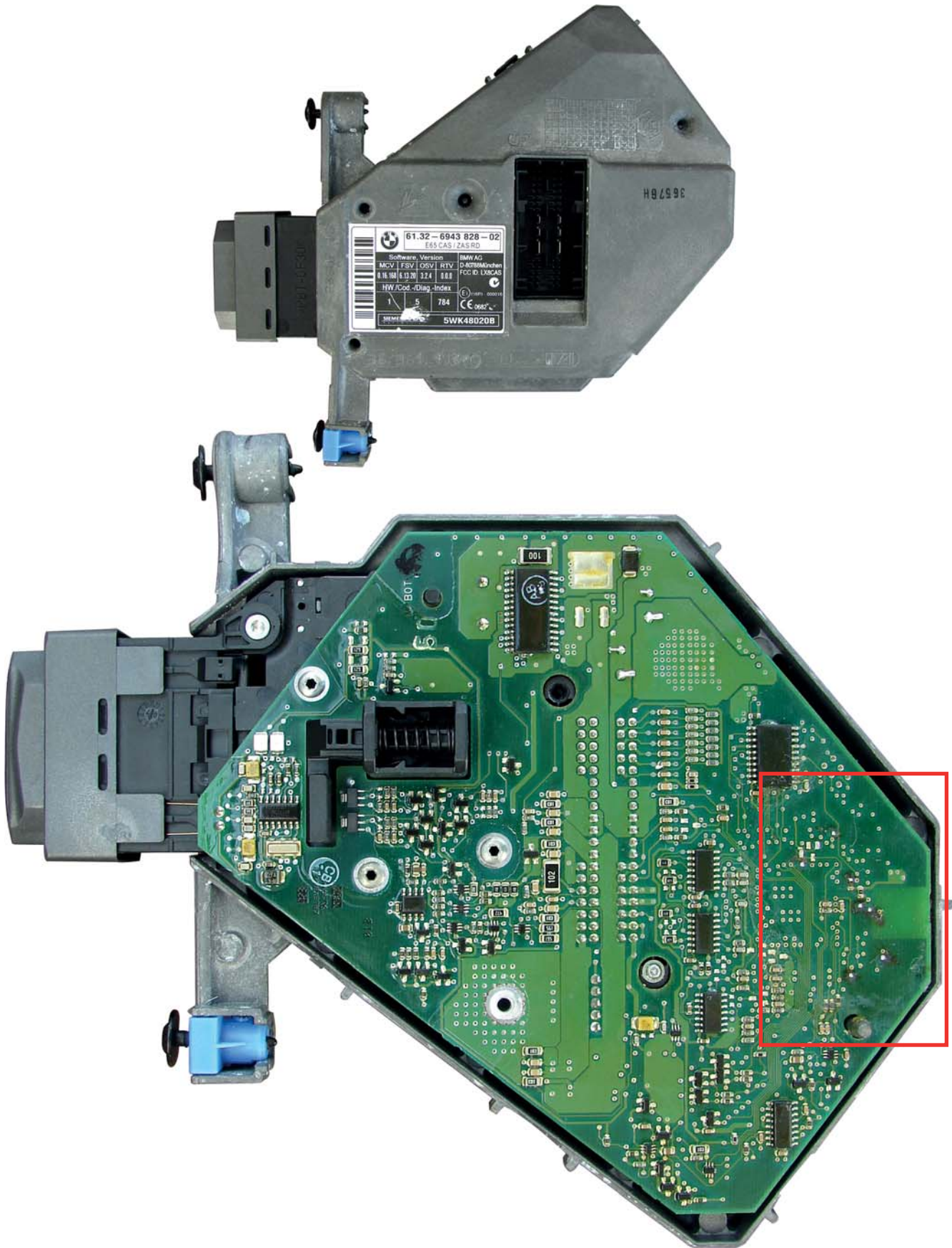
ARKA (BACK) TİP 2 / TYPE 2

Module 204 & 205; BMW 1,3,5,6,X5 Series CAS3 & CAS3+ Black MC9S12XDP512-(0L15Y-0M23S) QFP, 112 Pin

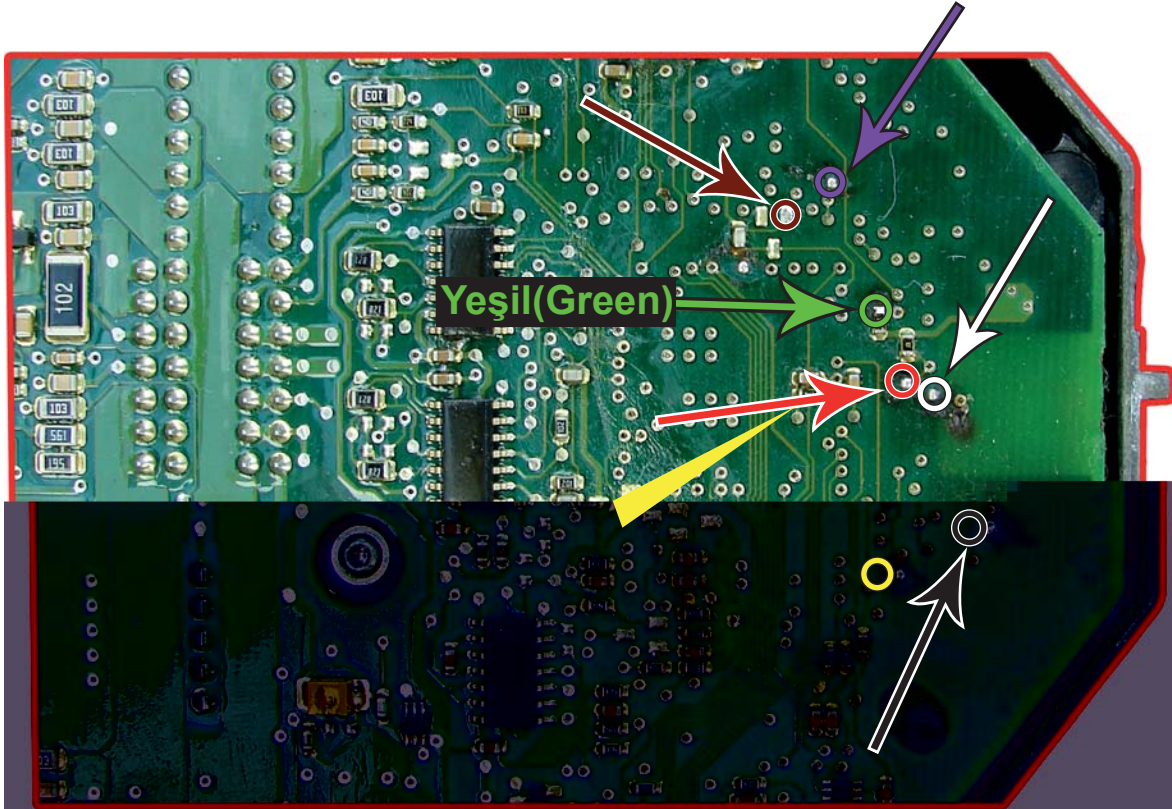
ZFH-EA7 SECURITY MCU ADAPTER



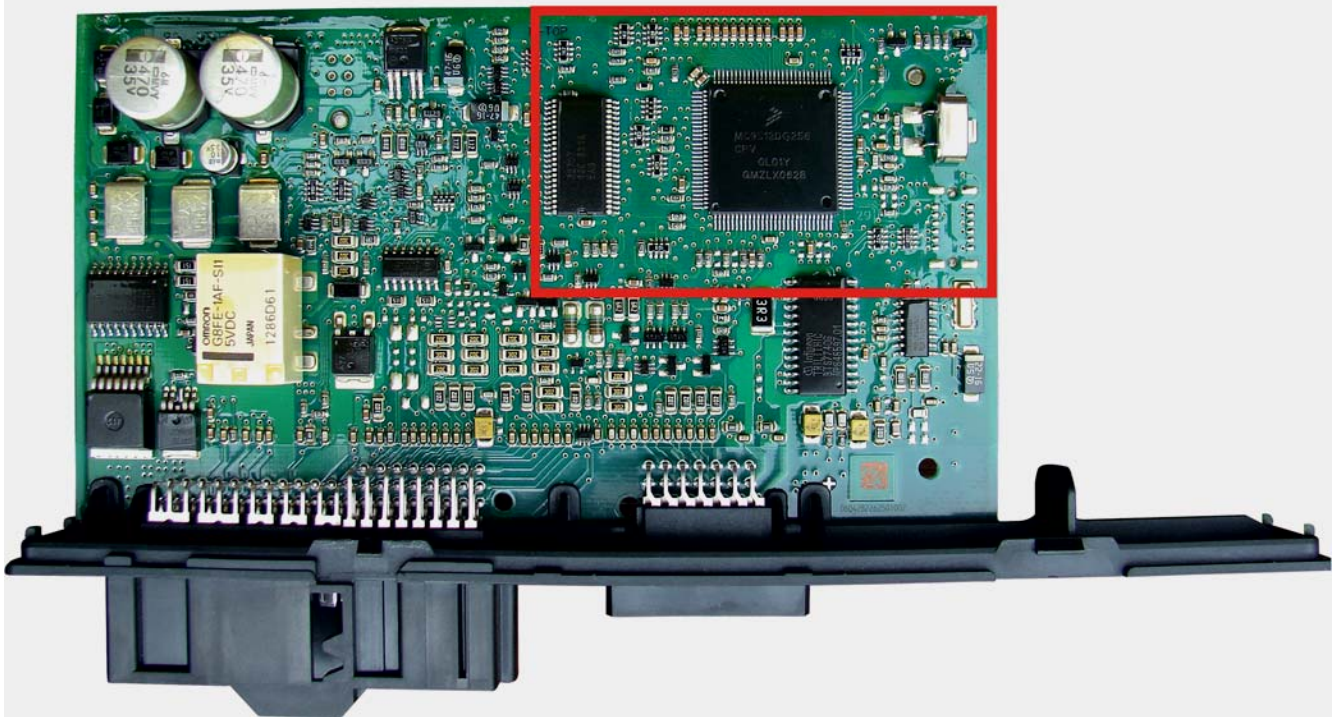
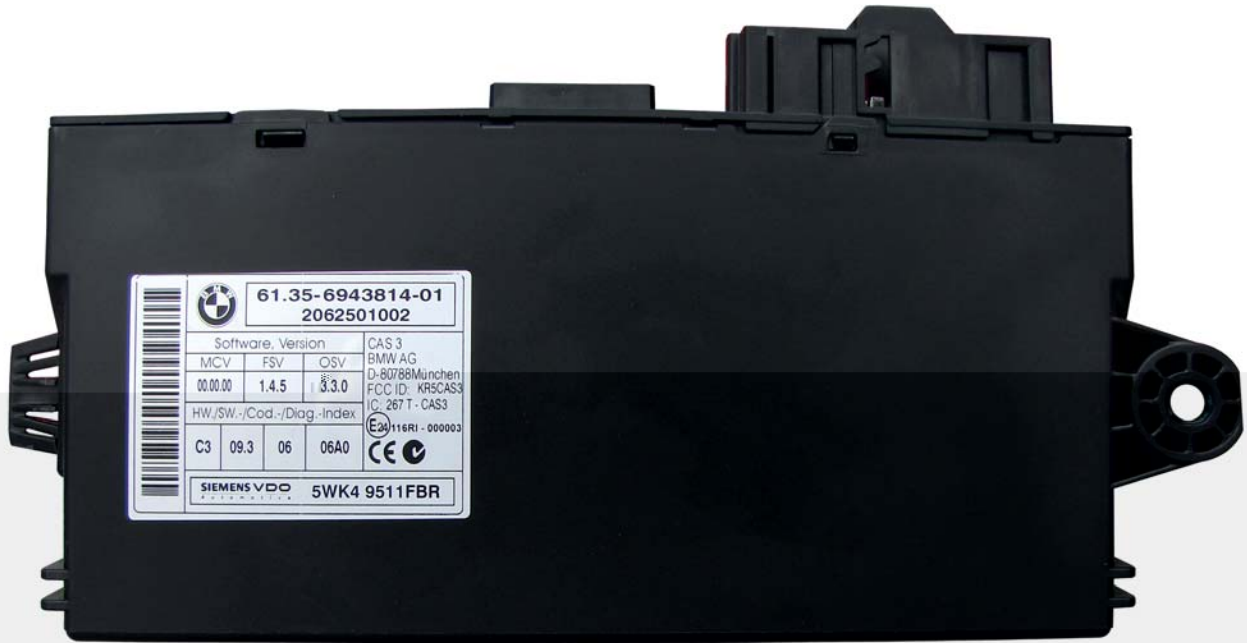
Module 247 ; BMW CAS1 Type2 (E66)
MC9S12DP256-MC9S12DG256(2K79X-0L01Y) QFP, 112 Pin
ZFH-EA7 SECURITY MCU ADAPTER



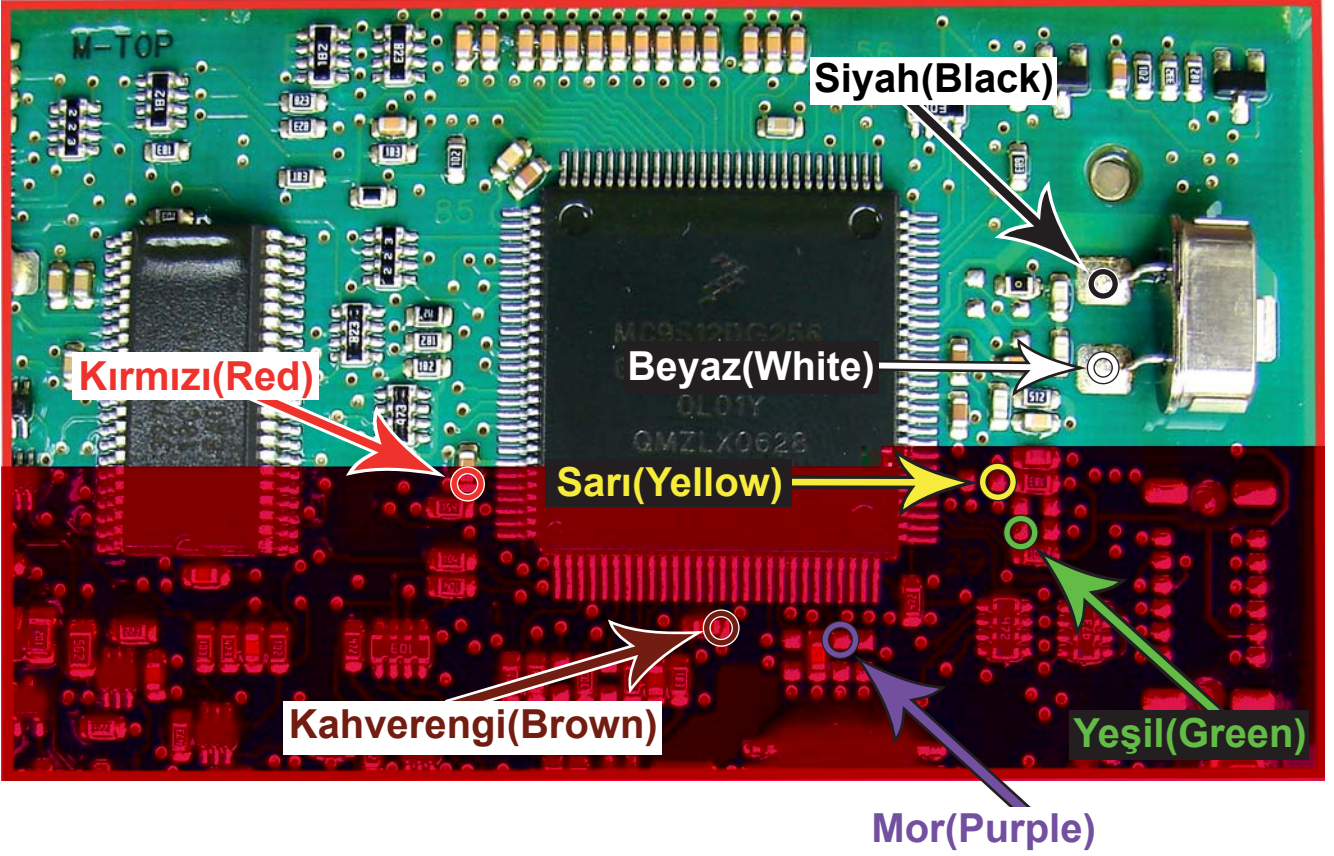
Module 247 ; BMW CAS1 Type2 (E66)
MC9S12DP256-MC9S12DG256(2K79X-0L01Y) QFP, 112 Pin
ZFH-EA7 SECURITY MCU ADAPTER



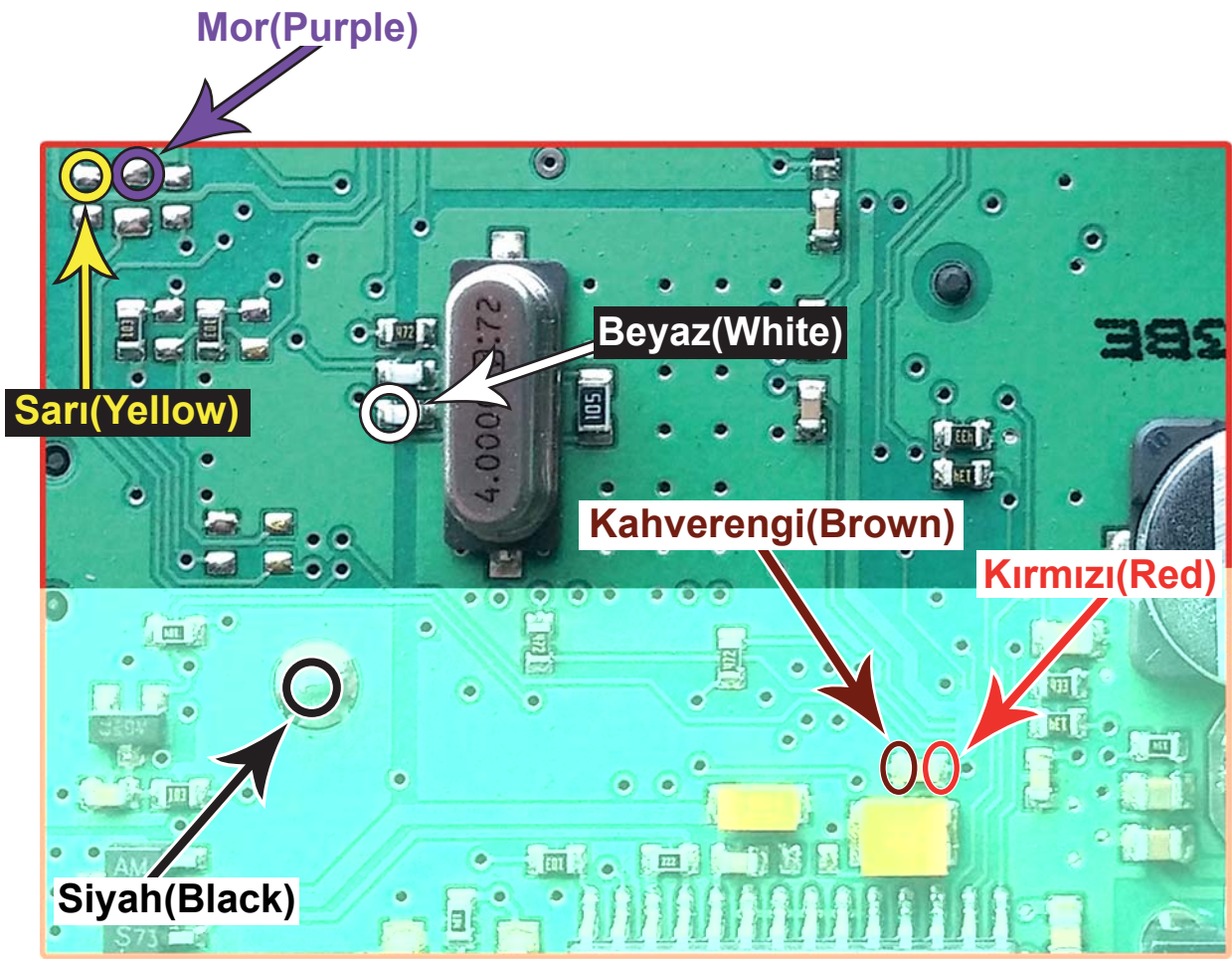
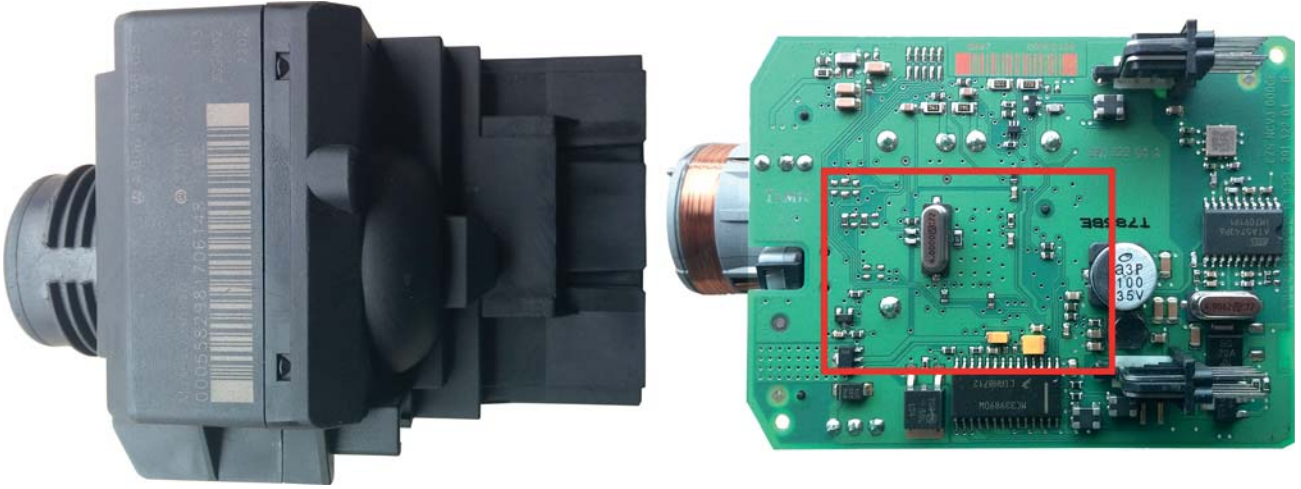
Module 248 ; BMW CAS3 Type2
MC9S12DP256-MC9S12DG256(2K79X-0L01Y), QFP, 112pin
ZFH-EA7 SECURITY MCU ADAPTER



Module 248 ; BMW CAS3 Type2
MC9S12DP256-MC9S12DG256(2K79X-0L01Y), QFP, 112pin
ZFH-EA7 SECURITY MCU ADAPTER



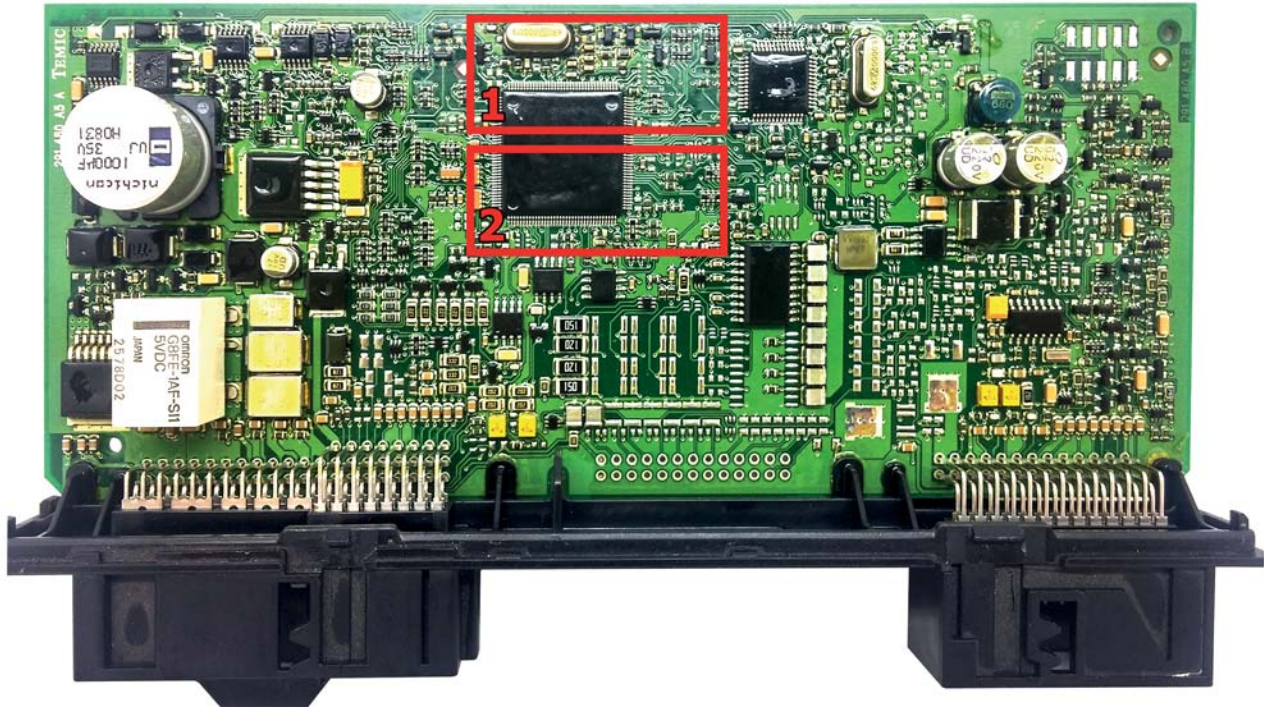
**Module 256; DODGE(Mercedes) Sprinter USA 46
MC9S12DP256-MC9S12DG256(0L01Y-1K79X),
MC9S12XDP512(1L15Y), QFP, 8pin
ZFH-EA7 SECURITY MCU ADAPTER**



**Module 263; BMW CAS4
MC9S12XDP512(1L15Y), QFP, 144pin**

ZFH-EA7 SECURITY MCU ADAPTER

1L15Y



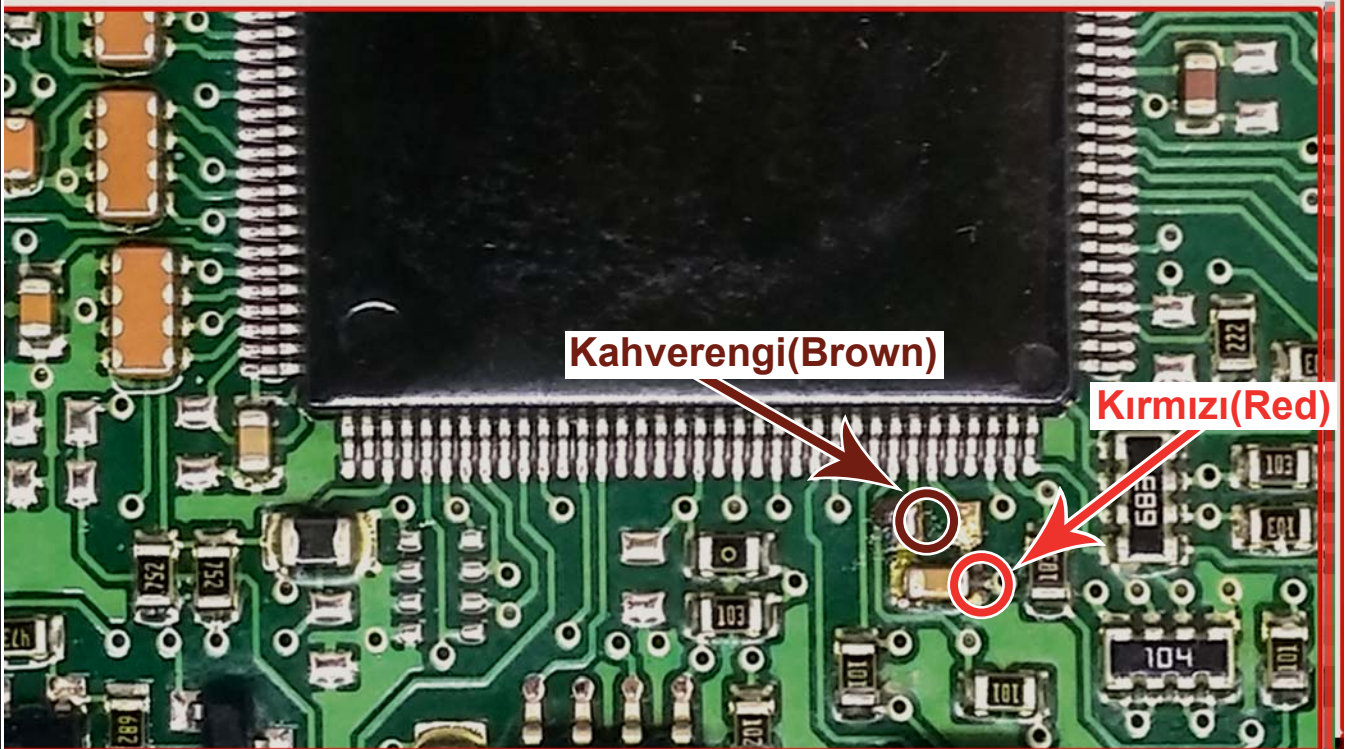
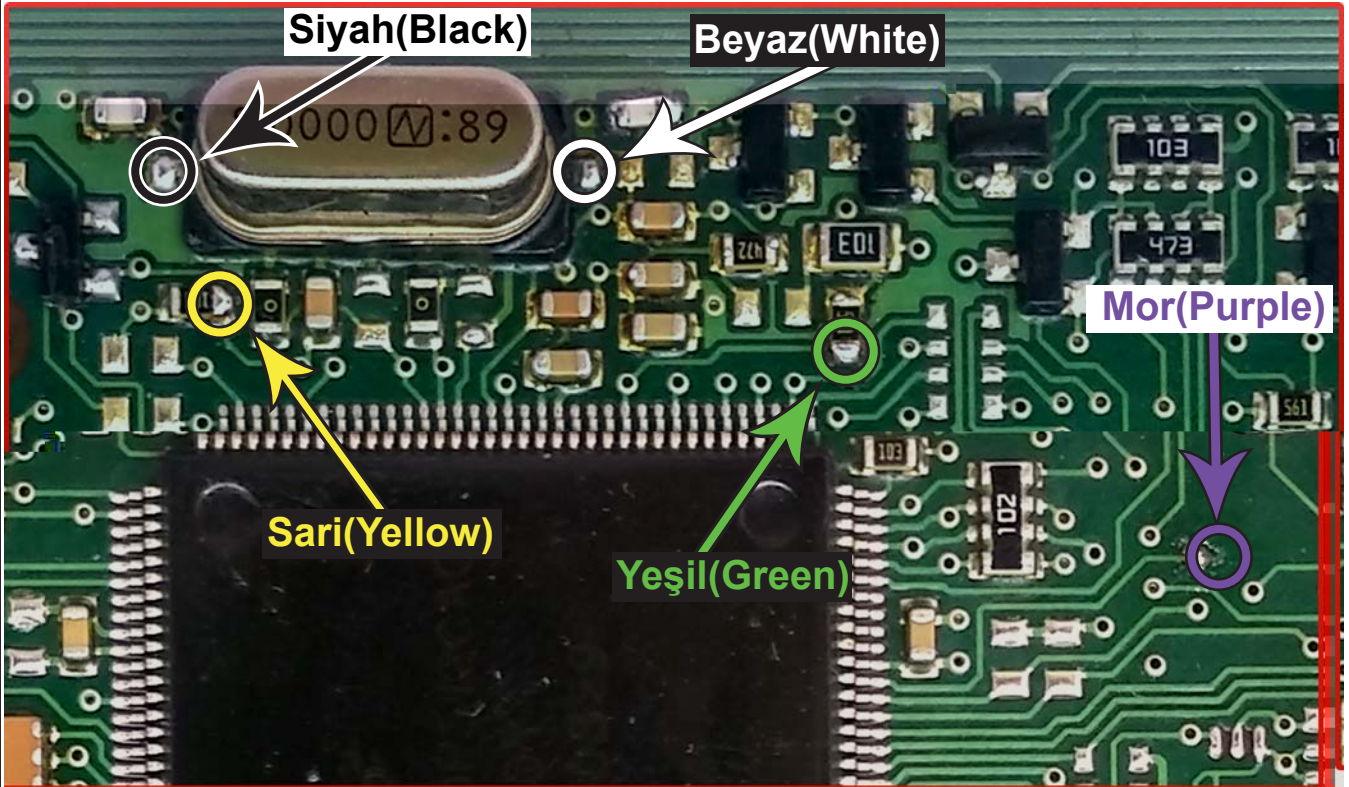
**ARKA KISIM DİĞER SAYFADA
(SEE THE NEXT PAGE FOR BACK SIDE)**



**Module 263; BMW CAS4
MC9S12XDP512(1L15Y), QFP, 144pin**

ZFH-EA7 SECURITY MCU ADAPTER

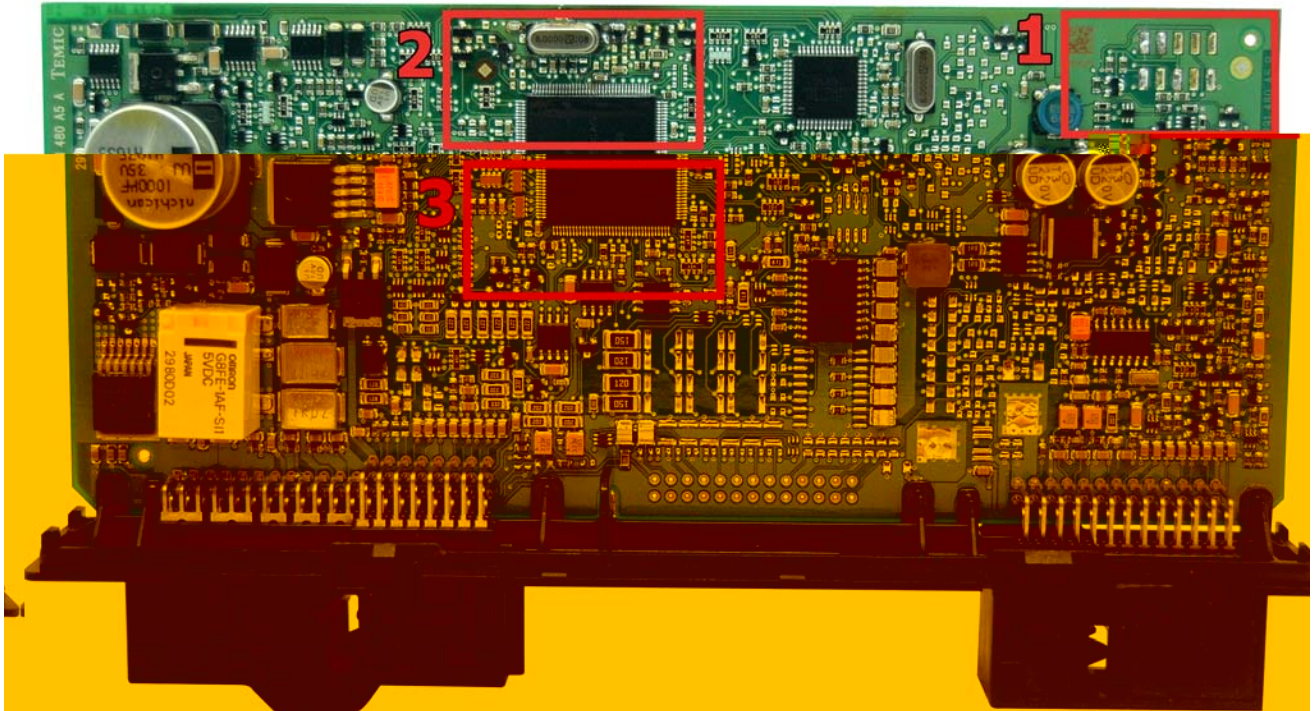
1L15Y



**Module 263; BMW CAS4
MC9S12XEP100(5M48H / 1N35H), QFP, 144pin**

ZFH-EA7 SECURITY MCU ADAPTER

5M48H / 1N35H TYPE 1



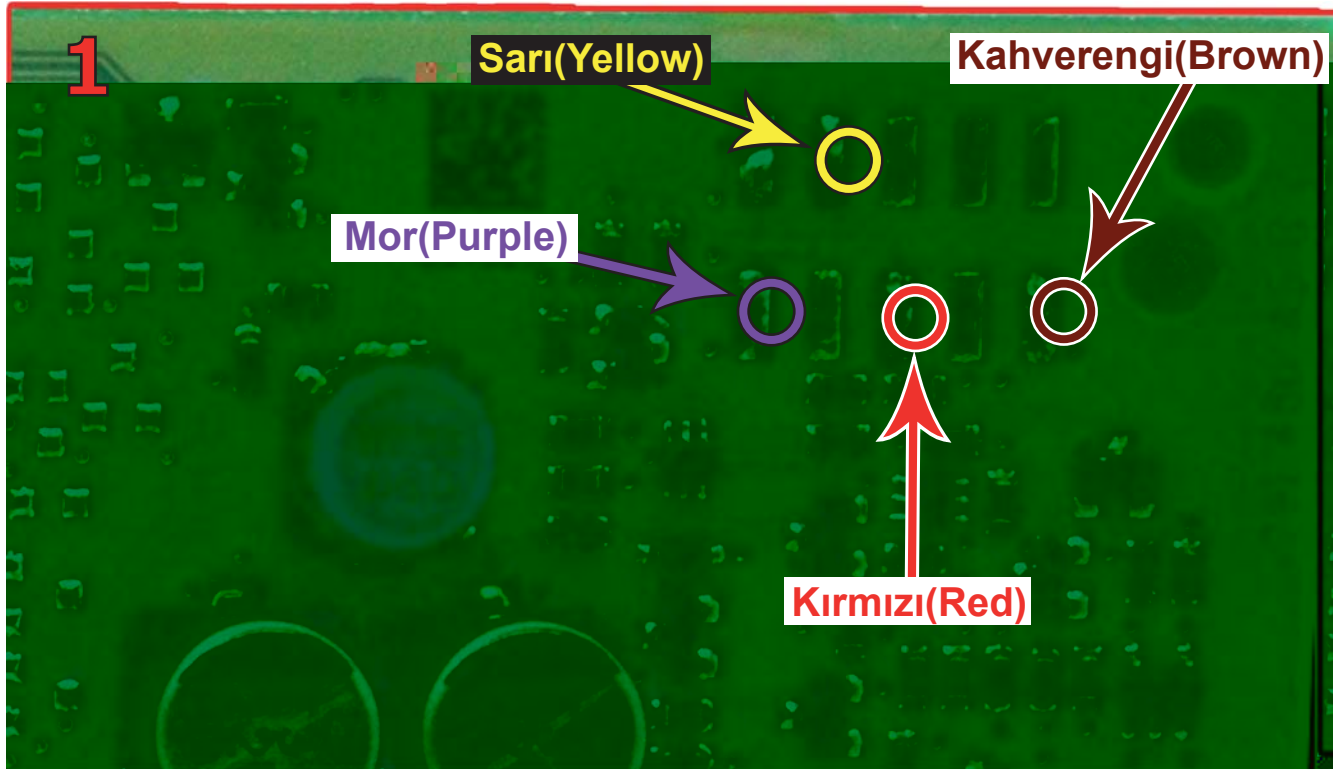
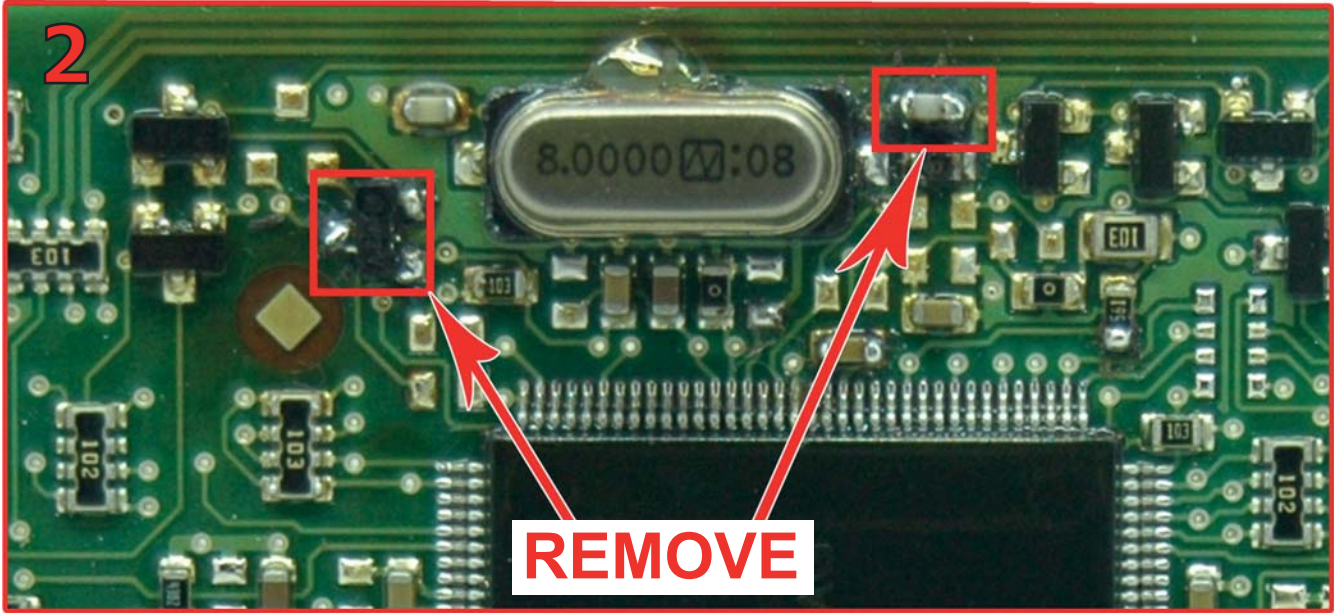
**ARKA KISIM DİĞER SAYFADA
(SEE THE NEXT PAGE FOR BACK SIDE)**



**Module 263; BMW CAS4
MC9S12XEP100(5M48H / 1N35H), QFP, 144pin**

ZFH-EA7 SECURITY MCU ADAPTER

5M48H / 1N35H TYPE 1



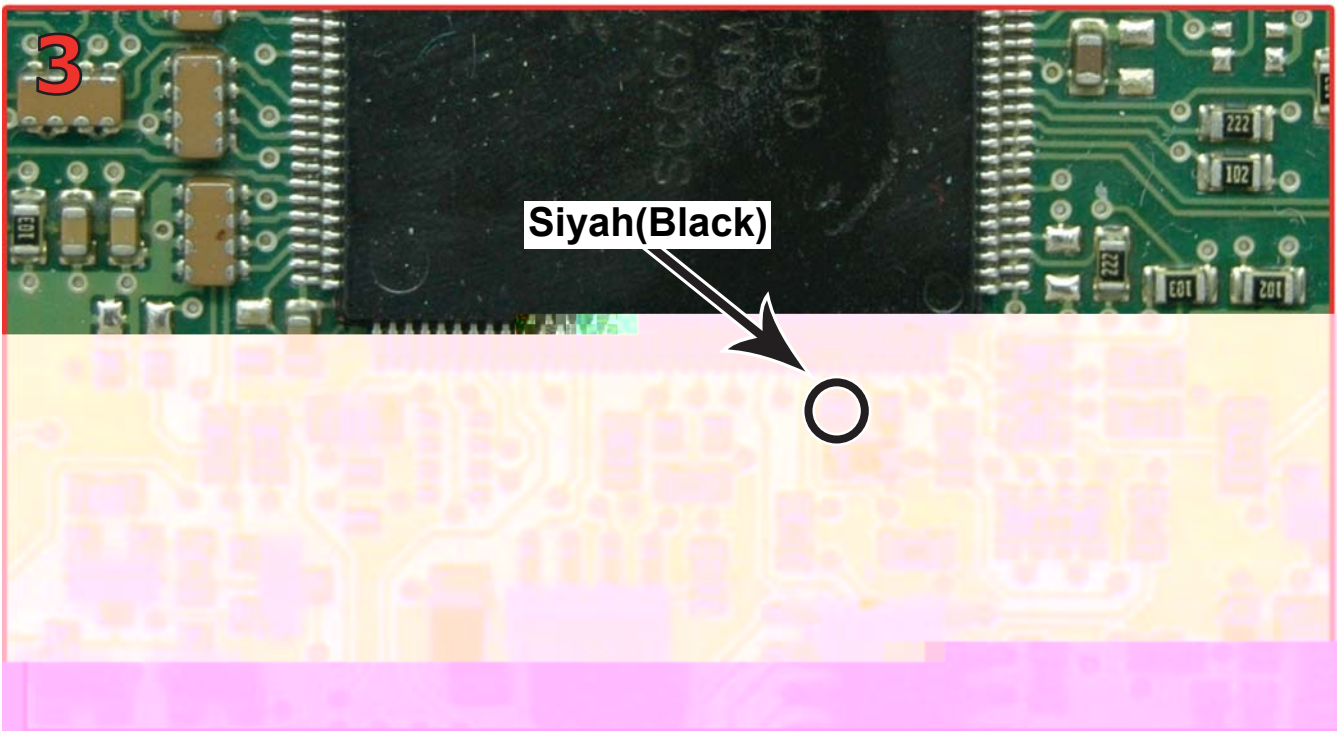
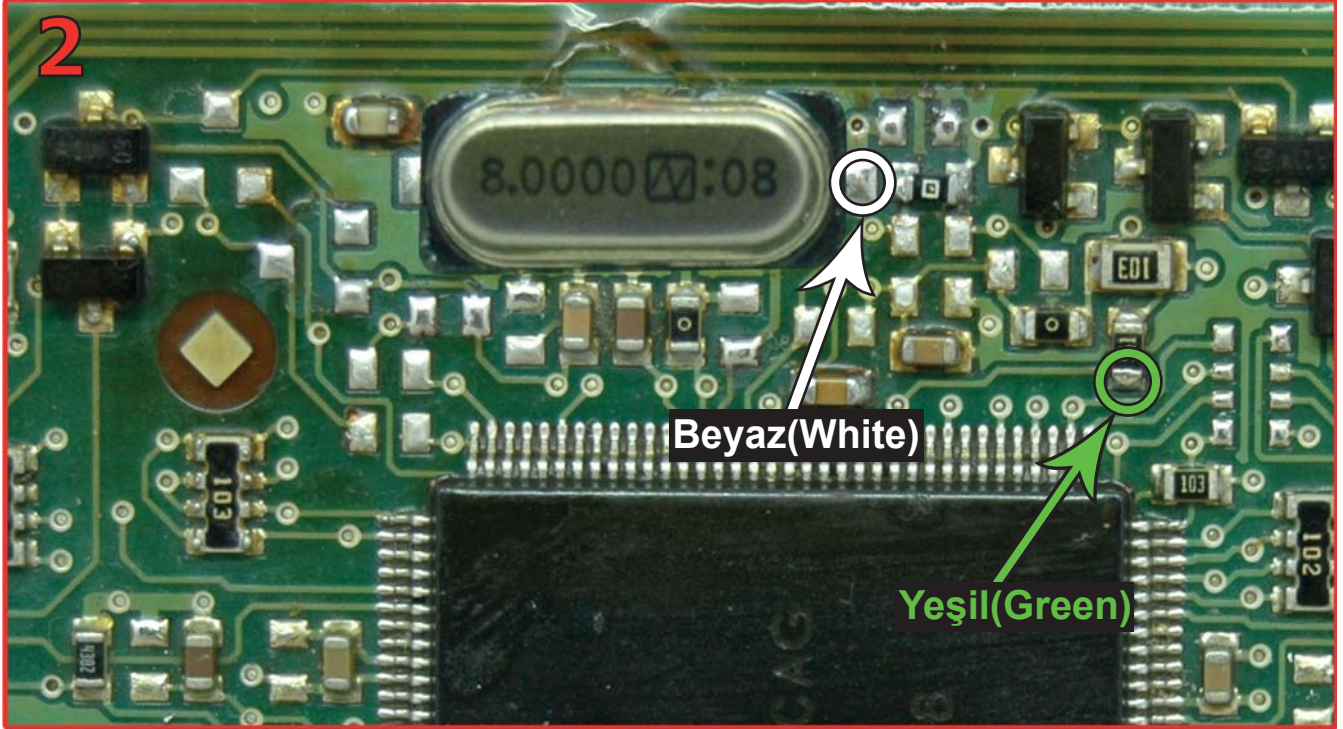
**ARKA KISIM DİĞER SAYFADA
(SEE THE NEXT PAGE FOR BACK SIDE)**



Module 263; BMW CAS4
MC9S12XEP100(5M48H / 1N35H), QFP, 144pin

ZFH-EA7 SECURITY MCU ADAPTER

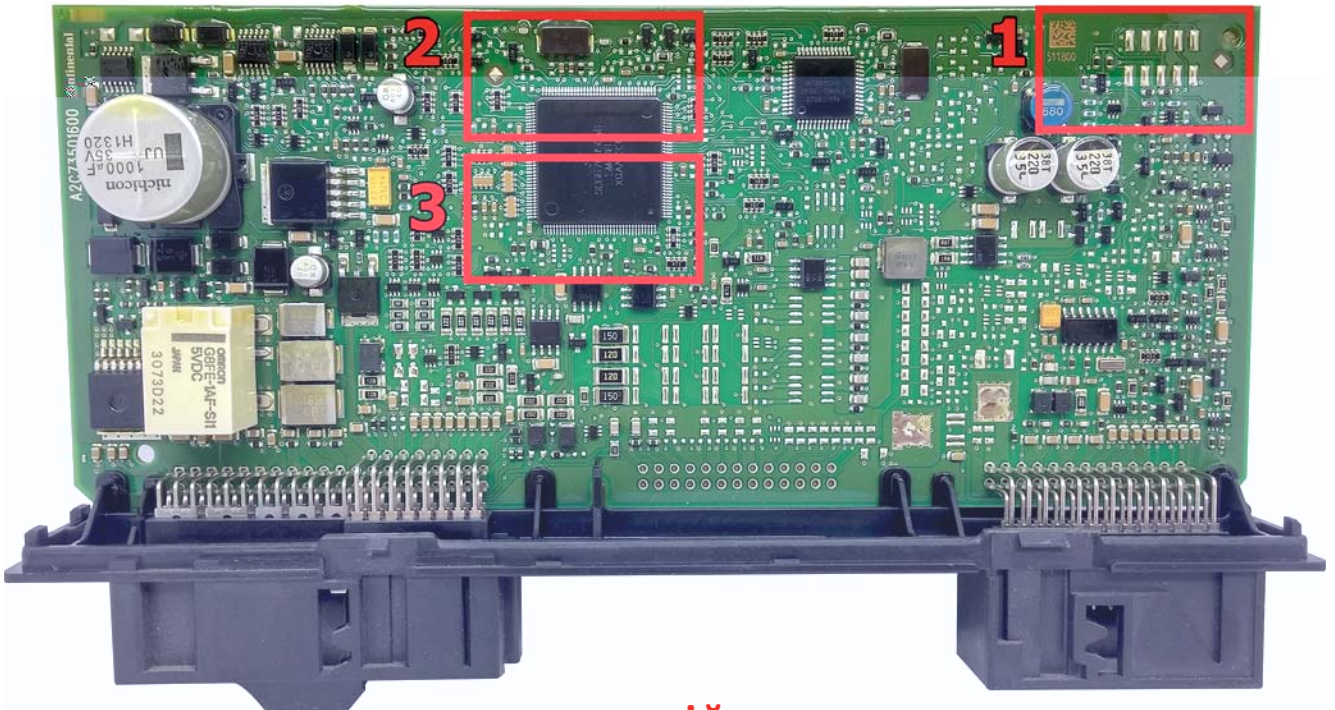
5M48H / 1N35H TYPE 1



**Module 263; BMW CAS4
MC9S12XEP100(5M48H / 1N35H), QFP, 144pin**

ZFH-EA7 SECURITY MCU ADAPTER

5M48H / 1N35H TYPE 2



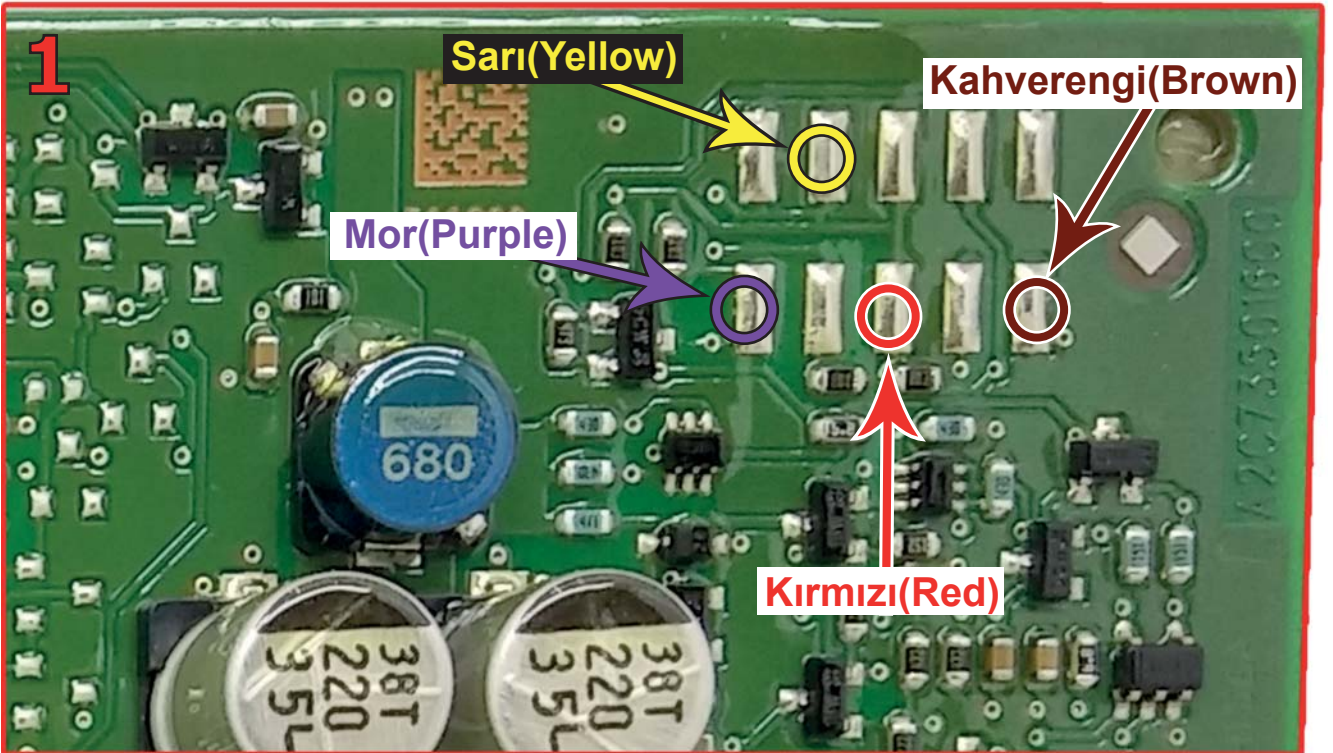
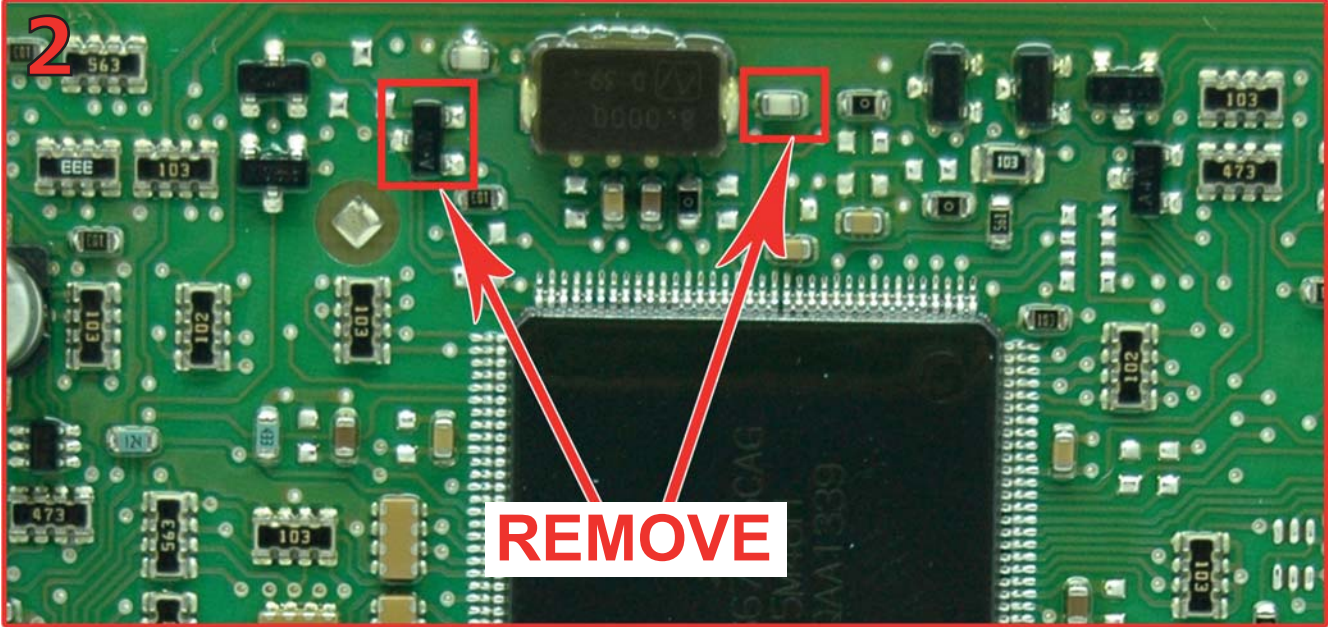
**ARKA KISIM DİĞER SAYFADA
(SEE THE NEXT PAGE FOR BACK SIDE)**



**Module 263; BMW CAS4
MC9S12XEP100(5M48H / 1N35H), QFP, 144pin**

ZFH-EA7 SECURITY MCU ADAPTER

5M48H / 1N35H TYPE 2



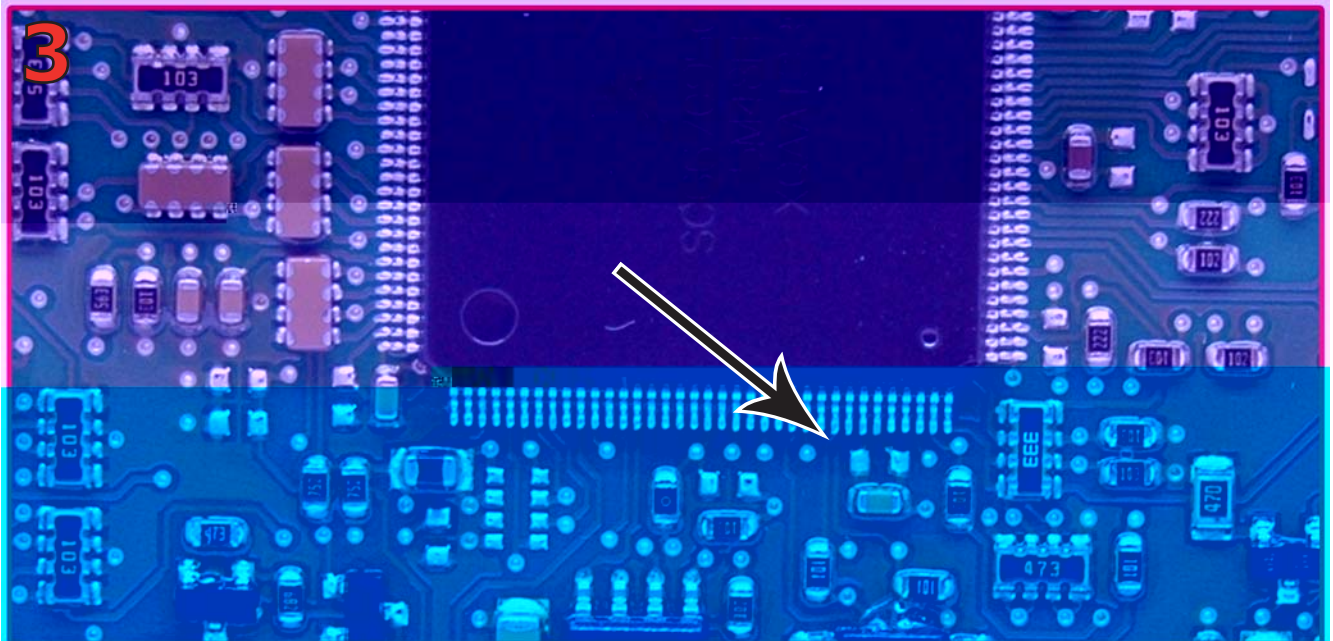
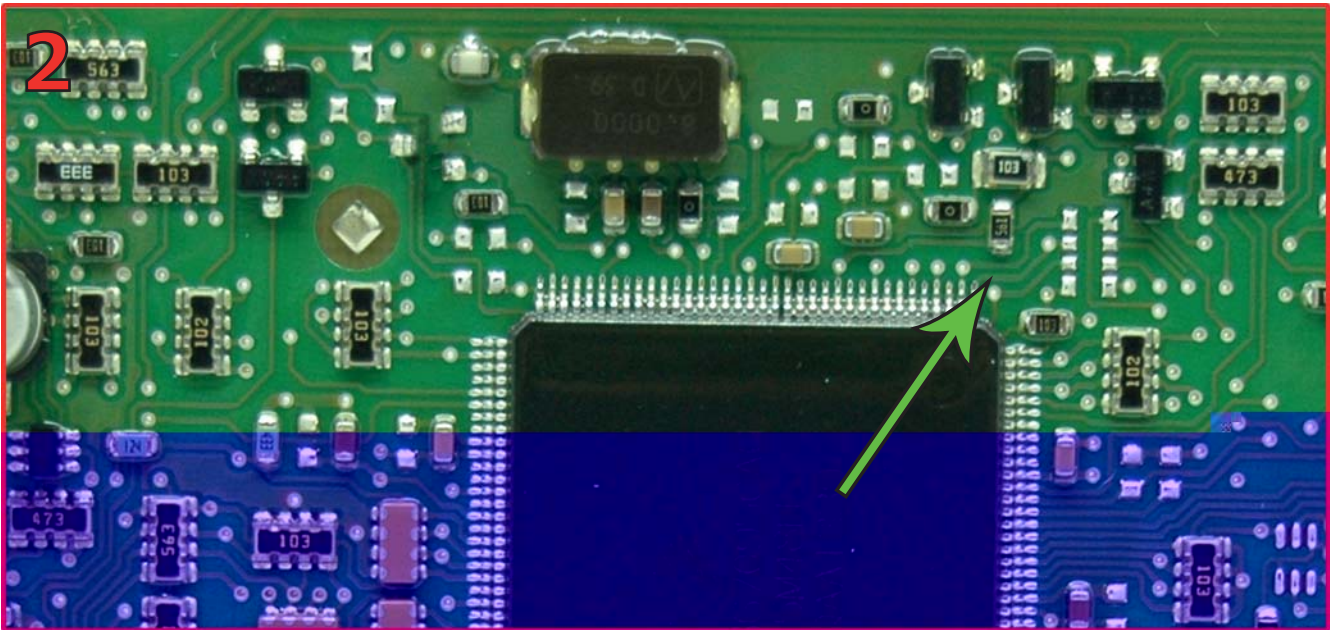
**ARKA KISIM DİĞER SAYFADA
(SEE THE NEXT PAGE FOR BACK SIDE)**



**Module 263; BMW CAS4
MC9S12XEP100(5M48H / 1N35H), QFP, 144pin**

ZFH-EA7 SECURITY MCU ADAPTER

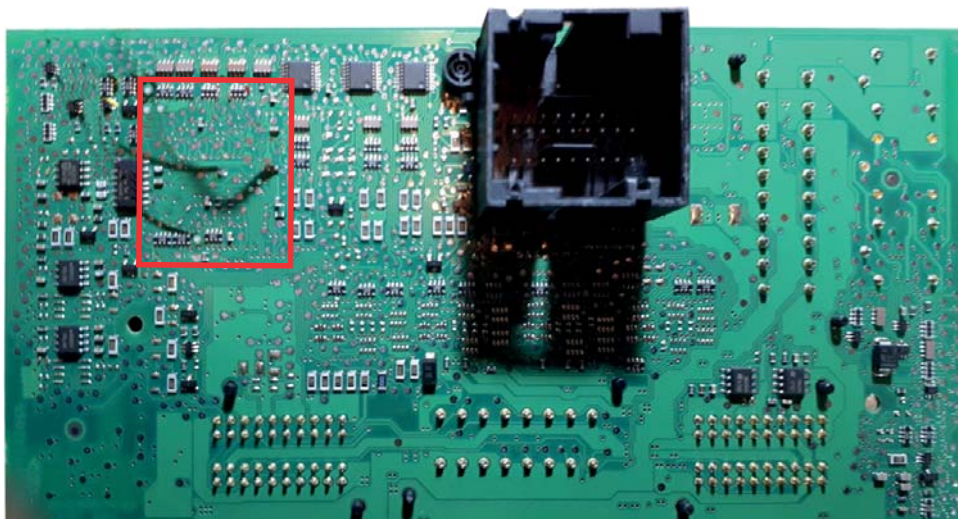
5M48H / 1N35H TYPE 2



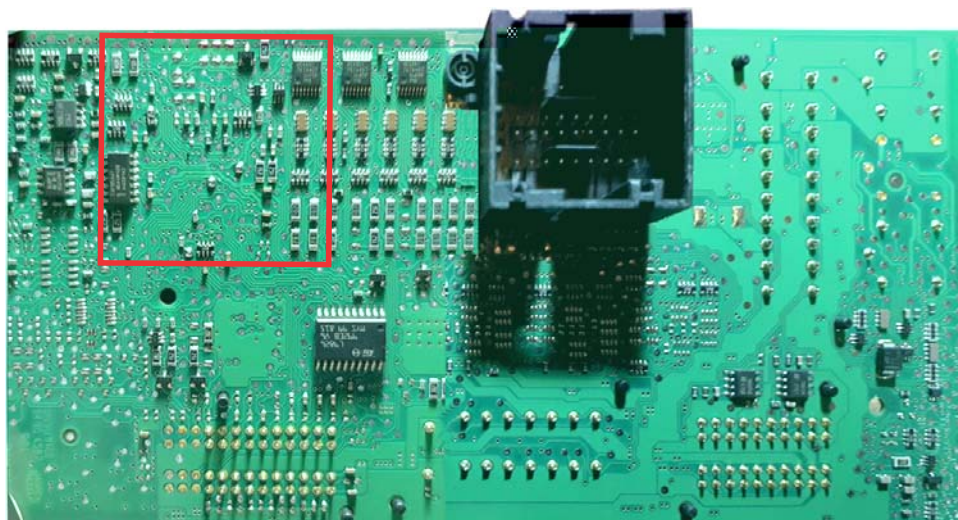
**MODULE 270; ALFA ROMEO 159, FIAT CROMA BSI
MC9S12DG256(1K79X), QFP, 112pin
ZFH-EA7 SECURITY MCU ADAPTER**



TYPE 1



TYPE 2



**MODULE 270; ALFA ROMEO 159, FIAT CROMA BSI
MC9S12DG256(1K79X), QFP, 112pin**

ZFH-EA7 SECURITY MCU ADAPTER

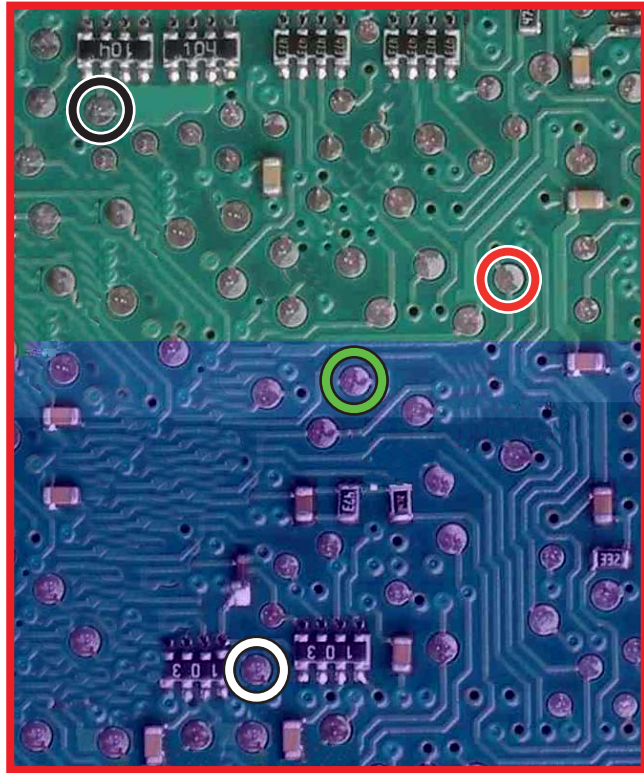
TYPE 1

○ BLACK CABLE(SİYAH KABLO)

○ RED CABLE(KIRMIZI KABLO)

○ GREEN CABLE(YEŞİL KABLO)

○ WHITE CABLE(BEYAZ KABLO)



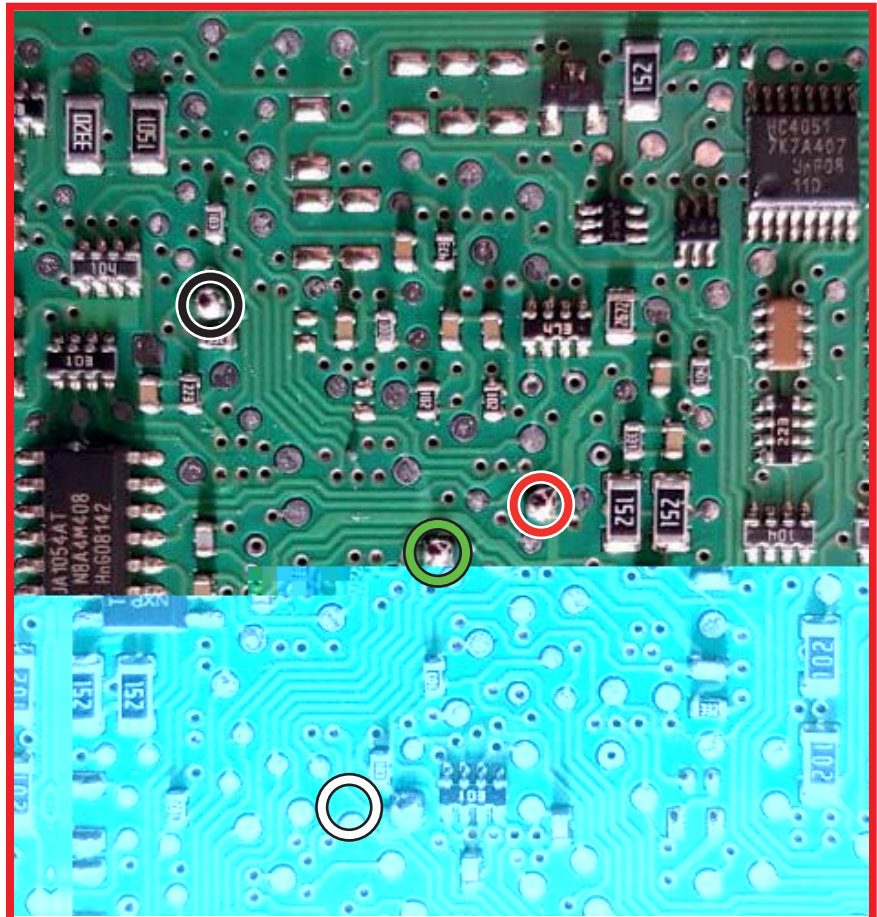
TYPE 2

○ BLACK CABLE(SİYAH KABLO)

○ RED CABLE(KIRMIZI KABLO)

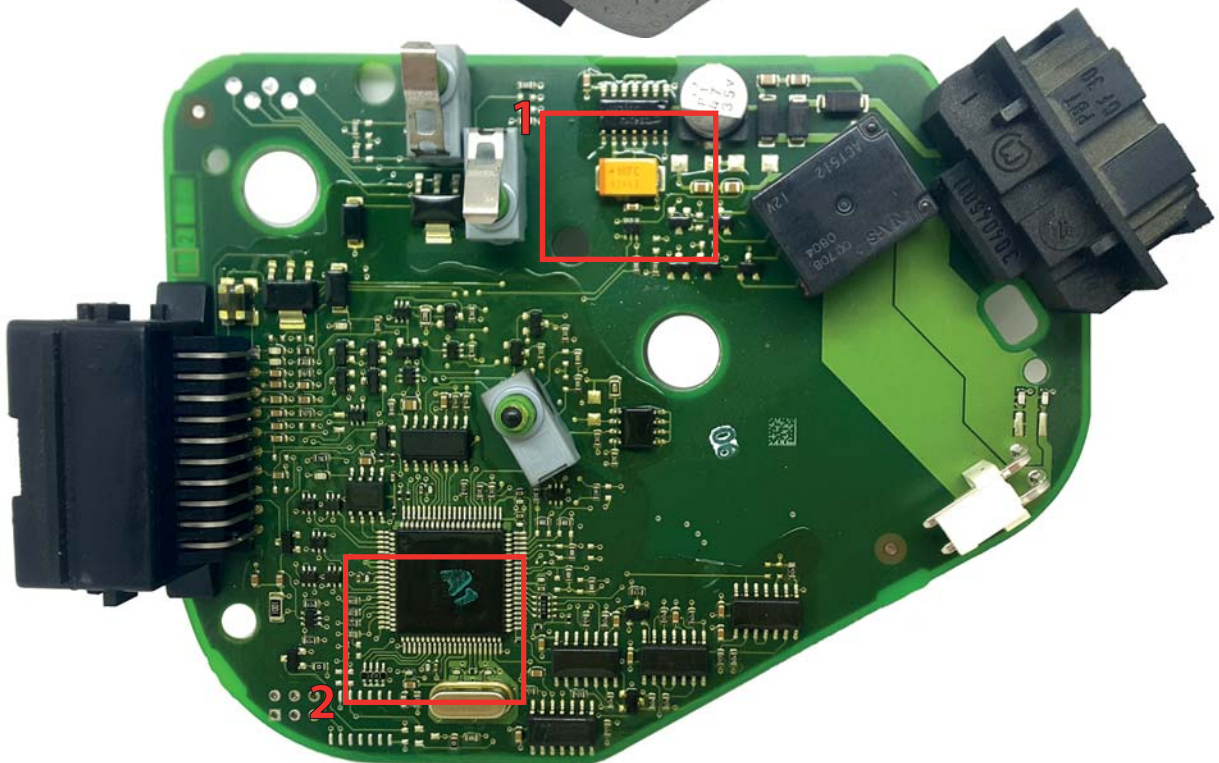
○ GREEN CABLE(YEŞİL KABLO)

○ WHITE CABLE(BEYAZ KABLO)



**Module 271; Audi A6/Q7 EZS
MC9S12DG128(3L40K/1L59W)-MC9S12DG256(0L01Y), QFP, 112pin
0L01Y**

ZFH-EA7 SECURITY MCU ADAPTER

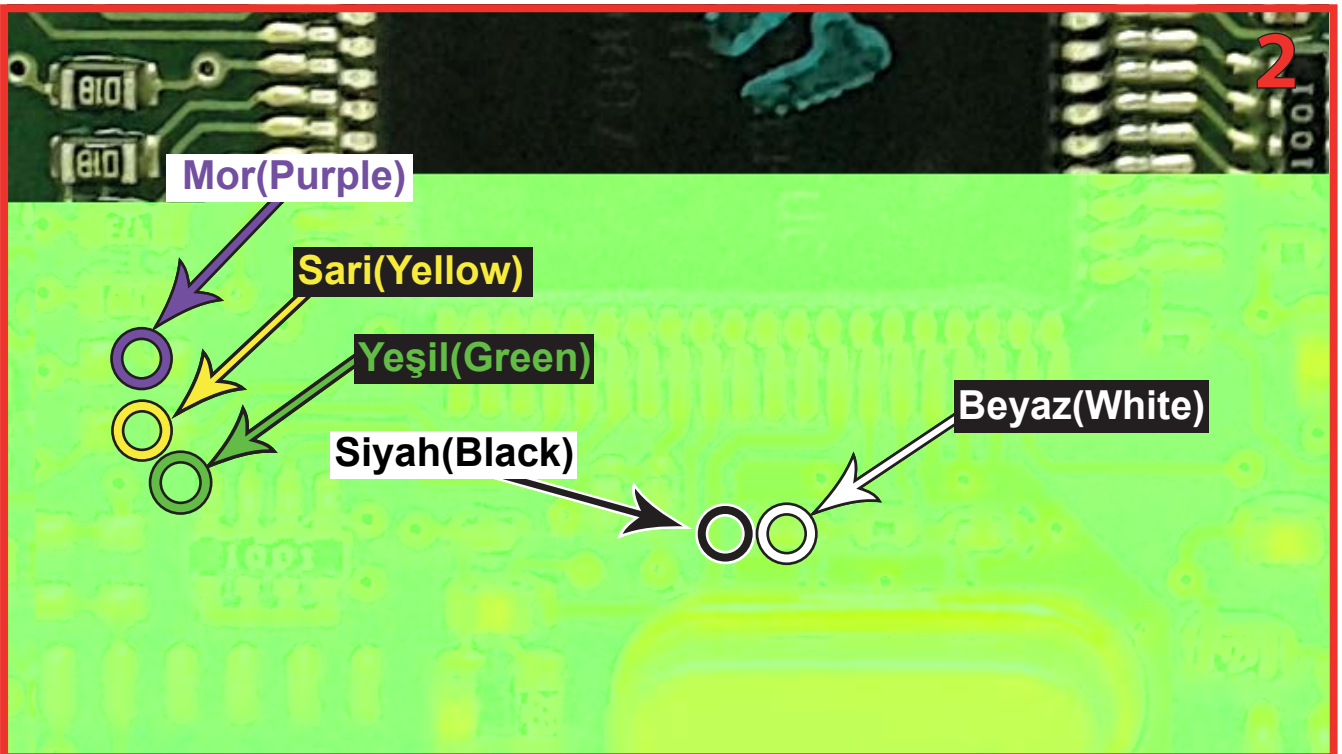
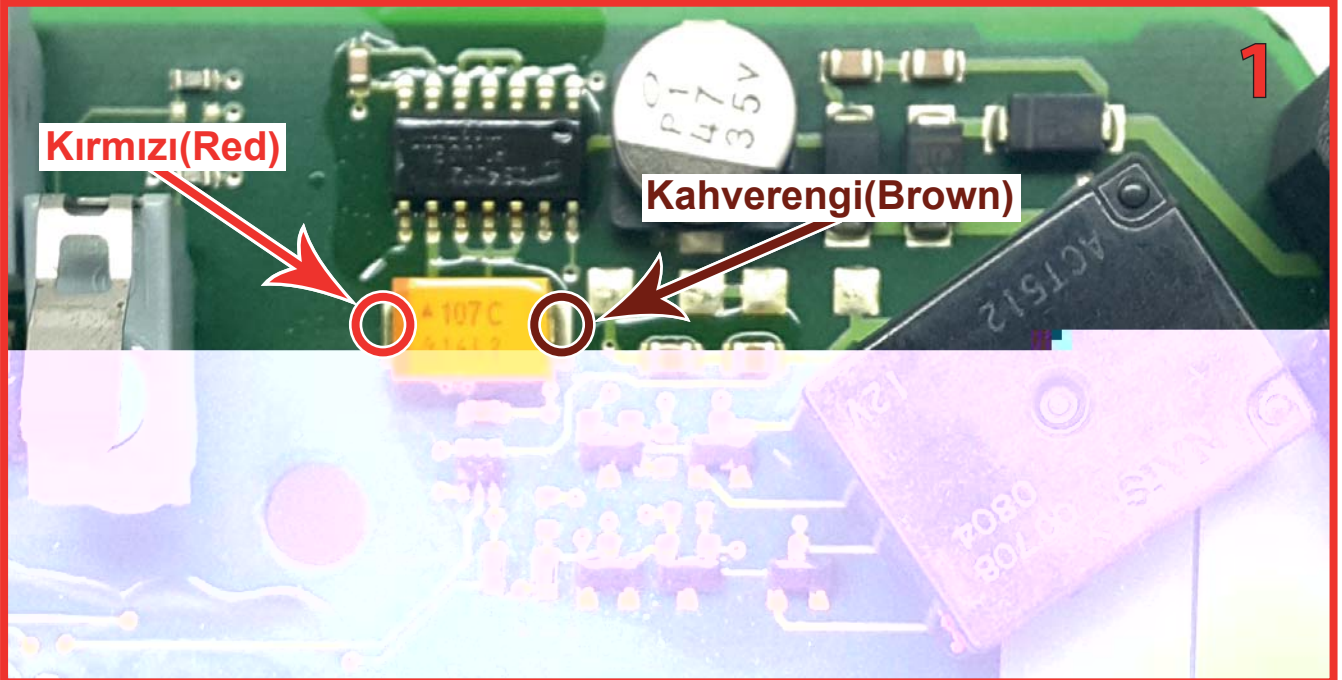


**ARKA KISIM DİĞER SAYFADA
(SEE THE NEXT PAGE FOR BACK SIDE)**



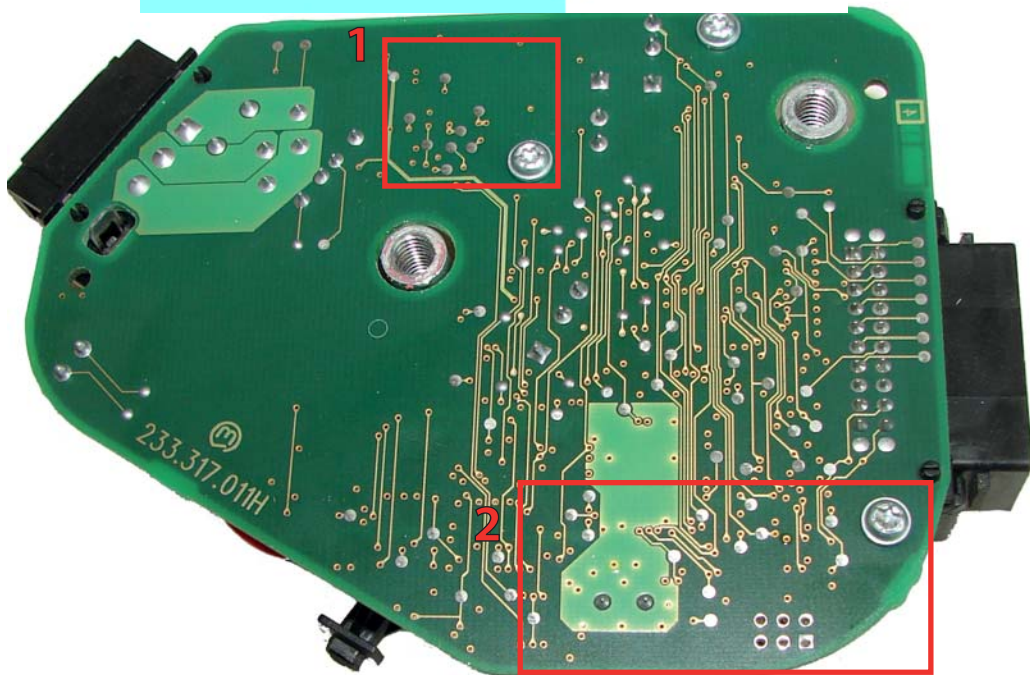
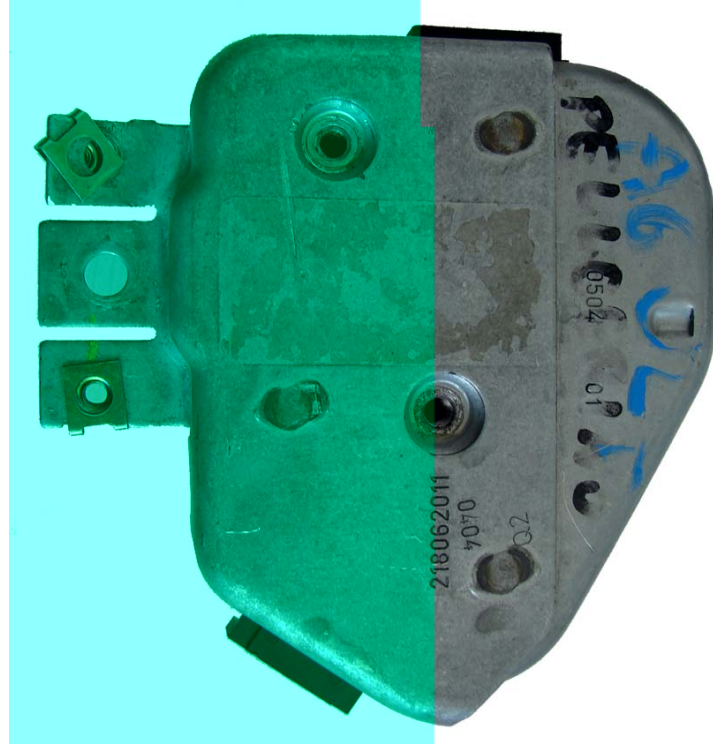
**Module 271; Audi A6/Q7 EZS
MC9S12DG128(3L40K/1L59W)-MC9S12DG256(0L01Y), QFP, 112pin
0L01Y**

ZFH-EA7 SECURITY MCU ADAPTER



Module 271; Audi A6/Q7 EZS
MC9S12DG128(3L40K/1L59W)-MC9S12DG256(0L01Y), QFP, 112pin
3L40K/1L59W

ZFH-EA7 SECURITY MCU ADAPTER



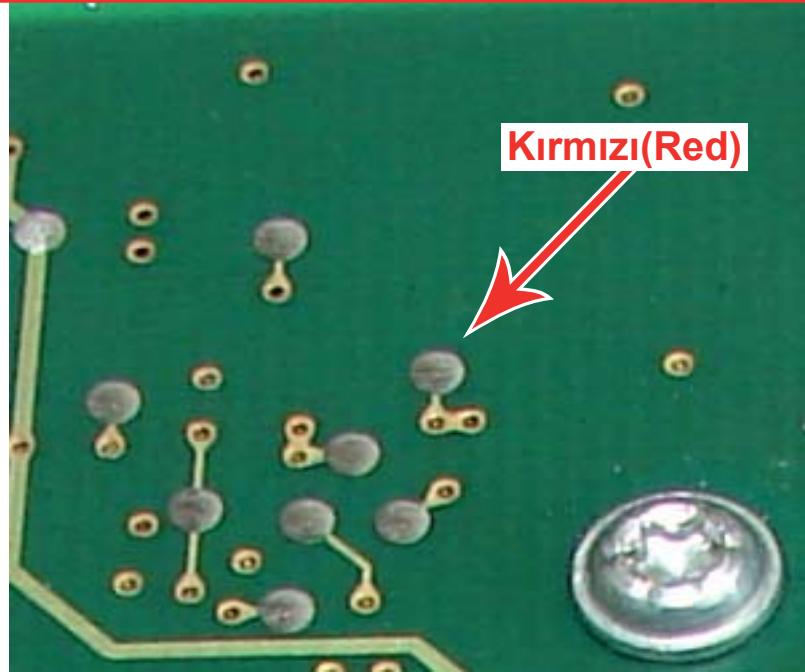
ARKA KISIM DİĞER SAYFADA
(SEE THE NEXT PAGE FOR BACK SIDE)



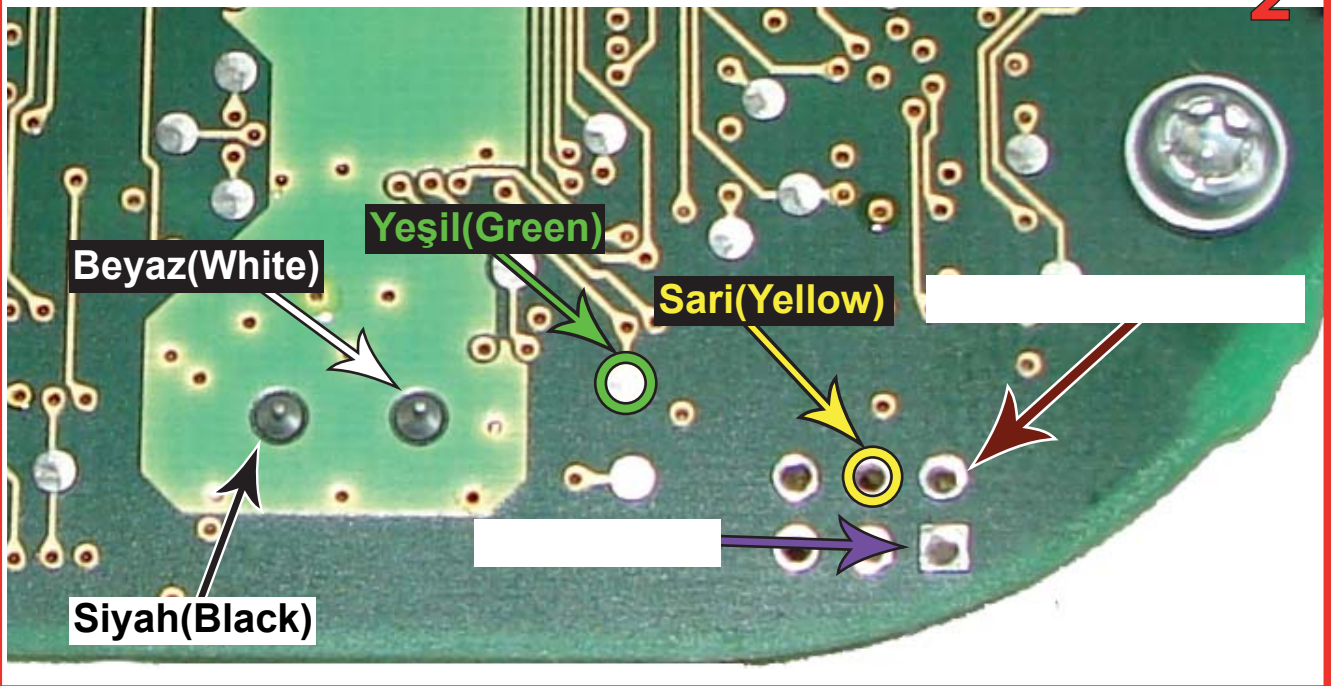
**Module 271; Audi A6/Q7 EZS
MC9S12DG128(3L40K/1L59W)-MC9S12DG256(0L01Y), QFP, 112pin
3L40K/1L59W**

ZFH-EA7 SECURITY MCU ADAPTER

1



2



MOTORBIKE APPLICATIONS THROUGH SOCKET (ZFH-C03 CABLE)



- *ACI500
- *ACI501
- *ACI502
- *ACI503
- *ACI504



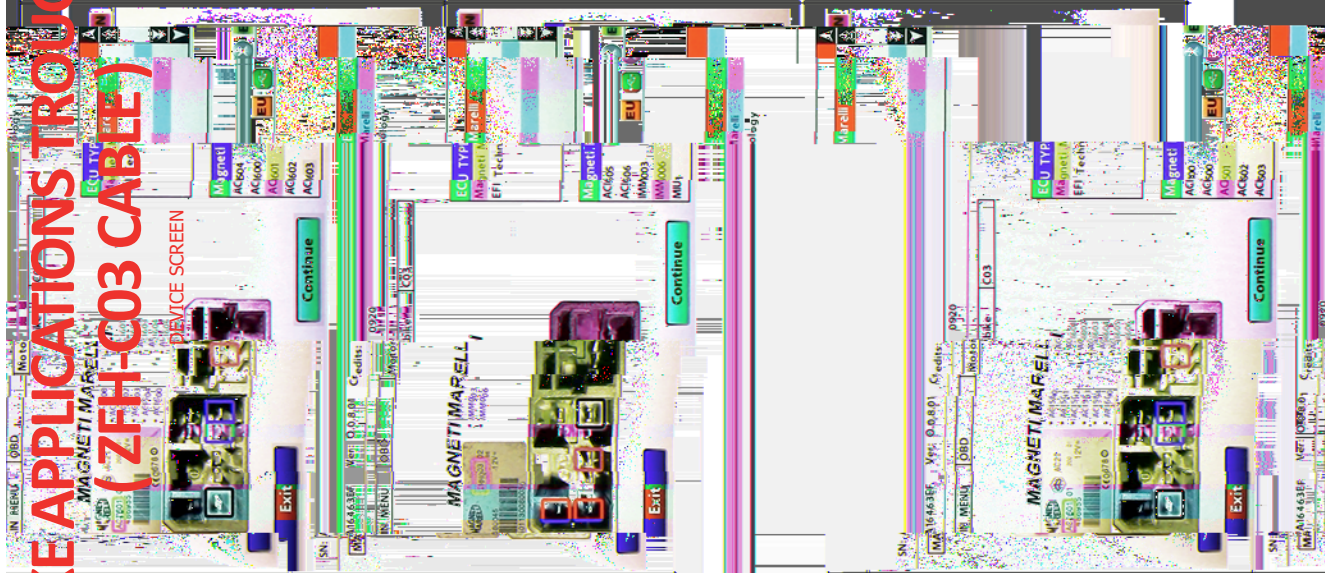
MAGNETI MARELLI

- *ACI600
- *ACI601
- *ACI602
- *ACI603
- *ACI604
- *ACI605
- *ACI606



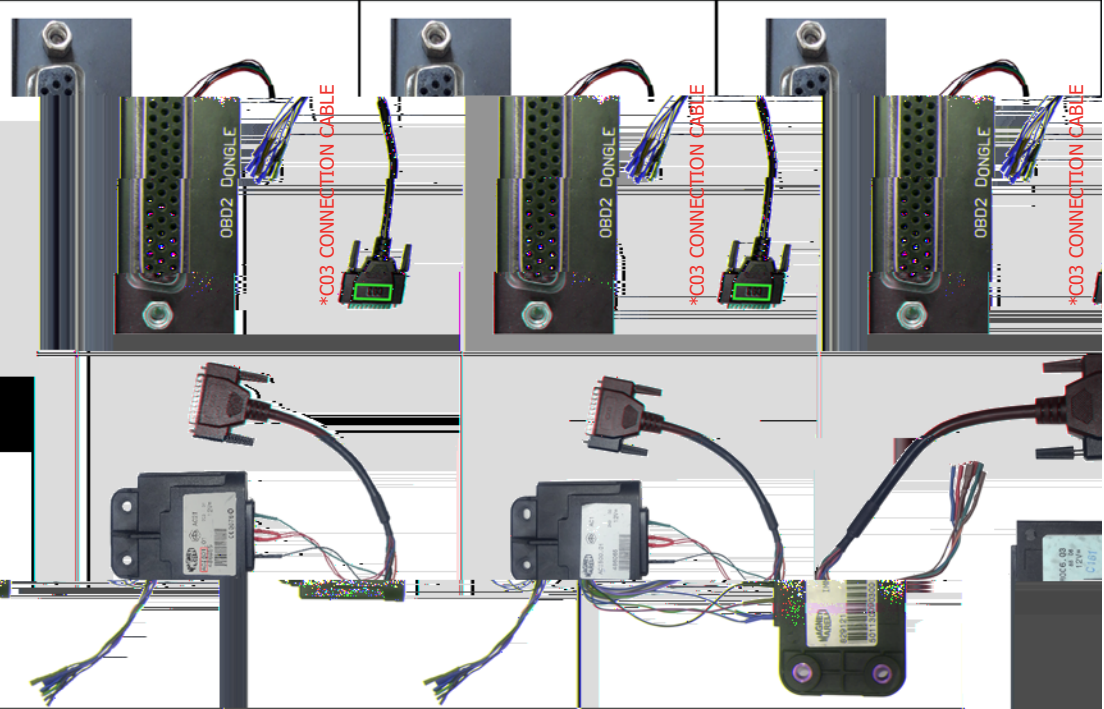
MAGNETI MARELLI

- *TIMM003
- *TIMM006



EXAMPLE CONNECTION

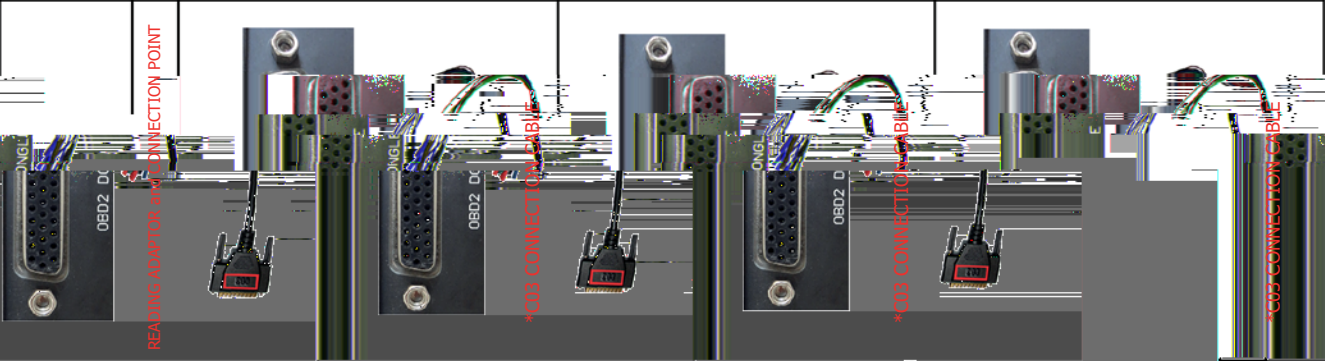
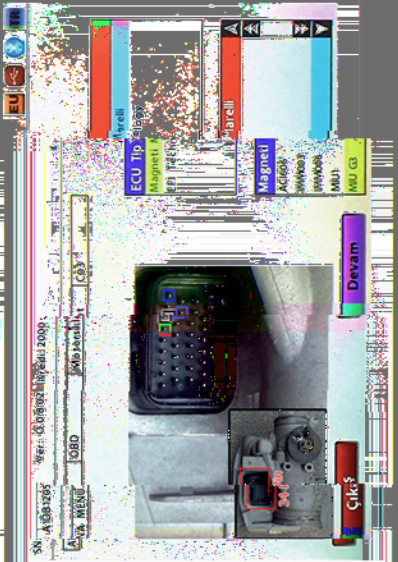
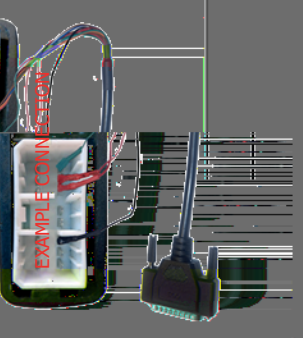
READING ADAPTOR and CONNECTION POINT



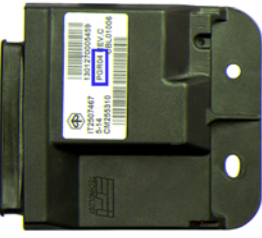
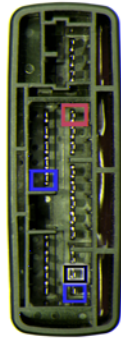
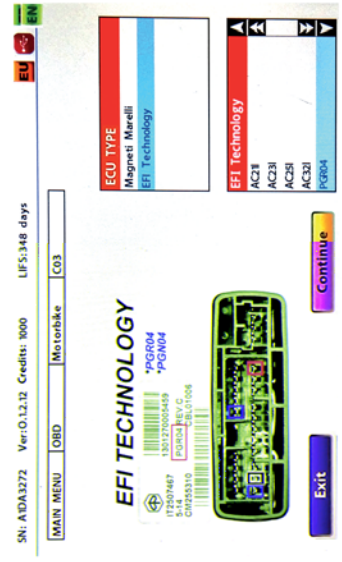


MOTORBIKE APPLICATIONS THROUGH SOCKET (ZFH-C03 CABLE)

ECU TYPE	ECU CONNECTION SCHEME	DEVICE SCREEN	EXAMPLE CONNECTION	READING ADAPTOR and CONNECTION POINT
<p>MAGNETI MARELLI</p> <ul style="list-style-type: none"> *MUI1 *MUI2 *MUI4 				 <p>OBD2 DONGLE</p> <p>*C03 CONNECTION CABLE</p>
<p>EFI TECNOLOGY</p> <ul style="list-style-type: none"> *AC11 *AC12 *AC51 *AC81 *AC211 *AC231 				 <p>OBD2 DONGLE</p> <p>*C03 CONNECTION CABLE</p>
<p>MAGNETI MARELLI</p> <ul style="list-style-type: none"> *AC1100 				 <p>OBD2 DONGLE</p> <p>*C03 CONNECTION CABLE</p>

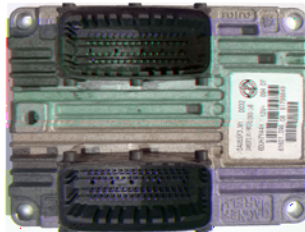




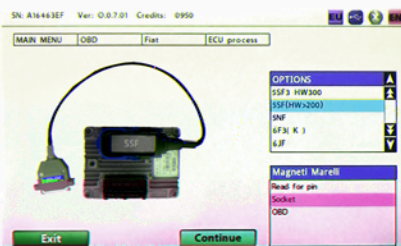



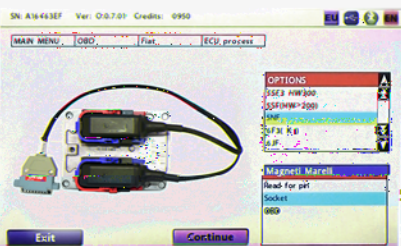
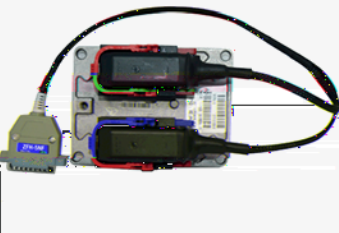



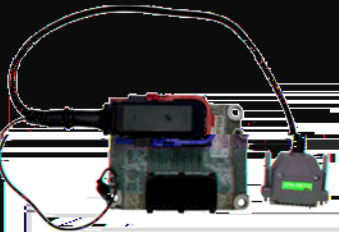

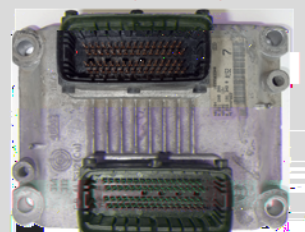
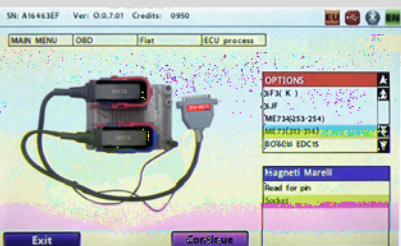
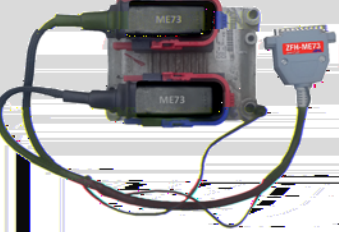

MOTORBIKE APPLICATIONS TROUGH SOCKET (ZFH C03 CABLE)



MOTORBIKE APPLICATIONS THROUGH SOCKET (ZFH-C03 CABLE)

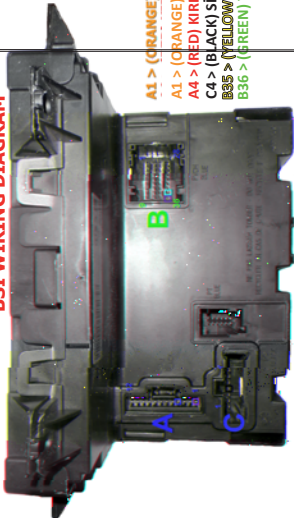



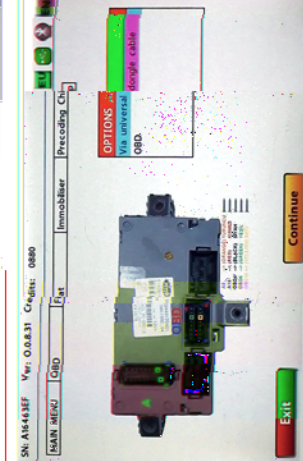

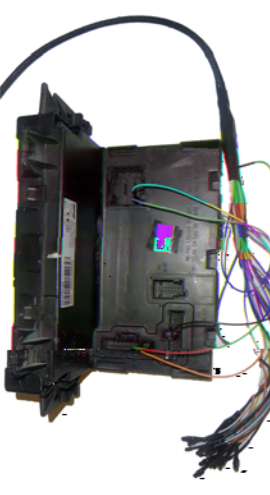
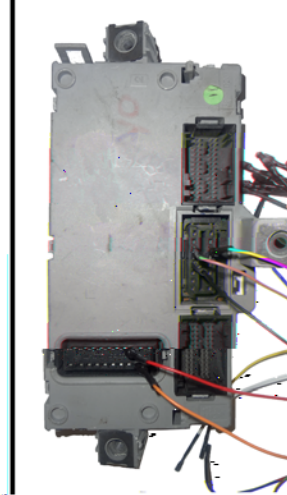
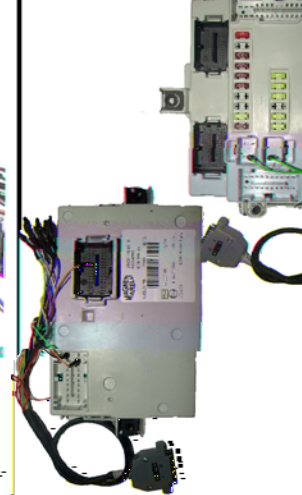
<p>ECU TYPE</p> <p>EFI TECGNOLOGY</p> <p>*PGR04</p> 	<p>ECU CONNECTION SCHEME</p> 	<p>DEVICE SCREEN</p> 	<p>EXAMPLE CONNECTION</p> 	<p>READING ADAPTOR and CONNECTION POINT</p>  <p>*C03 CONNECTION CABLE</p>
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FIAT, ALFA ROMEO LANCIA ECU VIRGIN THROUGH PINS USING ORIGINAL SOCKET

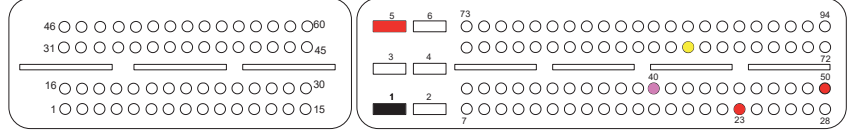
ECU TYPE	DEVICE SCREEN	EXAMPLE CONNECTION	READING ADAPTOR and CONNECTION POINT
<p style="color: red; text-align: center;">5SF3 HW300</p> 			
<p style="color: red; text-align: center;">5SF3 (HW>200)</p> 			
<p style="color: red; text-align: center;">5NF.TX</p> 			
<p style="color: red; text-align: center;">ME731 (253-254)</p> 			
<p style="color: red; text-align: center;">ME73 (313-314)</p> 			

Zed-FULL UNIVERSAL CABLE - "ZFH-C09"

FIAT - ALFA ROMEO - LANCIA > BSI Via Universal Dongle Cable

BSI TYPE	BSI WIRING DIAGRAM	DEVICE SCREEN	EXAMPLE CONNECTION
<p>SIMENS - 46CHIP 9S12 FIAT : PANDA 2003-2013</p> <p>M.MARELLI - 48CHIP 9S160/95320 FIAT : Linea - Bravo - Ducato - Punto PEUGEOT : Boxer / CITROEN : Jumper - Relay IVECO : Daily - Eurocargo / LANCIA : Ypsilon</p> <p>M.MARELLI - 46CHIP 95160 FIAT : Bravo - Ducato PEUGEOT : Boxer / CITROEN : Jumper - Relay IVECO : Daily - Eurocargo / LANCIA : Ypsilon</p>	 <p>A1 > (ORANGE) TURUNCU A1 > (ORANGE) TURUNCU A4 > (RED) KIRMIZI C4 > (BLACK) SIYAH B35 > (YELLOW) SARIL B36 > (GREEN) YEŞİL</p>  <p>A8 -> (ORANGE) TURUNCU A9 -> (RED) KIRMIZI A10 -> (ORANGE) TURUNCU A18 -> (RED) KIRMIZI OBD4 -> (BLACK) SIYAH OBD5 -> (GREEN) YEŞİL OBD6 -> (YELLOW) SARIL</p>  <p>A11 -> (BLACK) SIYAH TERMINAL A2 -> (ORANGE) TURUNCU TERMINAL B25 -> (GREEN) YEŞİL TERMINAL</p> <p>C1 -> (RED) KIRMIZI TERMINAL D1 -> (RED) KIRMIZI TERMINAL D1 -> (RED) KIRMIZI TERMINAL</p>	 <p>SN: A16438EF Veri: 0.0A.831 Çip: 9S12-9890 MAR: MARELLI OBD: OBD Immobiler: Preceding C OPTIONS: Via universale Dongle cable OBD: OBD Continue</p>  <p>SN: A16438EF Veri: 0.0A.831 Çip: 9S160-9890 MAR: MARELLI OBD: OBD Immobiler: Preceding C OPTIONS: Via universale Dongle cable OBD: OBD Continue</p>  <p>SN: A16438EF Veri: 0.0A.831 Çip: 9S160-9890 MAR: MARELLI OBD: OBD Immobiler: Preceding C OPTIONS: Via universale Dongle cable OBD: OBD Continue</p>	  

MAGNETI MARELLI 1.3 FIAT MJD 6F3 (CAN)



KIRMIZI (RED) SİYAH (BLACK) SARI

PEMBE

MAGNETI MARELLI 1.3 FIAT MJD 6F3 (K-LINE)

MAGNETI MARELLI 1.3 FIAT MJD 6JF (K-LINE)

MAGNETI MARELLI 1.2 FIAT IAW 5SF3 (HW300)

ECU VIRGINISING THROUGH 9" UNIVERSAL CABLE

MARELLI 1.2 FI AT IAW 59F (HW<100)

○○○○○●○○○³⁸

○○○○●○○○
1○○○●○○○○○

MARELLI 1.2 FIAT IAW 59F (HW>100)

○○○○○○○○○
○○○○○○○○○

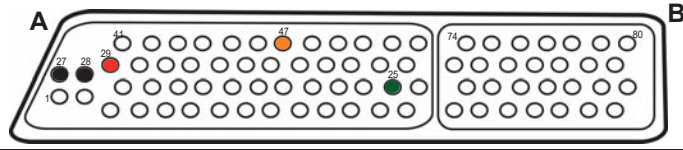
○○○○○○●○○○
1○○○●○○○○○¹⁰

MARELLI 1.2 FIAT IAW 5AF(HW>100)

MARELLI 1.1 - 1.6 FIAT IAW 4AF (HW>100)

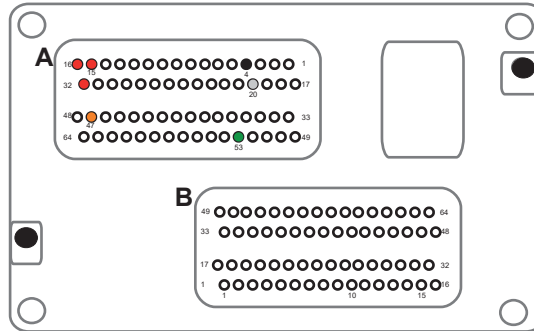
FIAT, ALFA ROMEO, LANCIA ECU VIRGINISING THROUGH PINS USING "ZFH-C09" UNIVERSAL CABLE

MAGNETI MARELLI 1.1 - 1.6 FIAT IAW 4EF (HW>100)



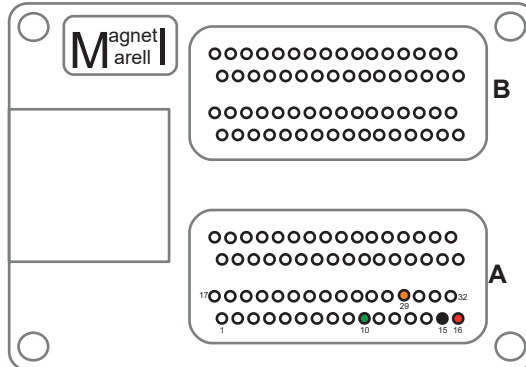
TURUNCU (ORANGE)	KIRMIZI (RED)	SİYAH (BLACK)	YEŞİL (GREEN)
A - 47	A - 29	A - 27,28	A - 25

BOSCH 1.6 FIAT ME731 (253-254)



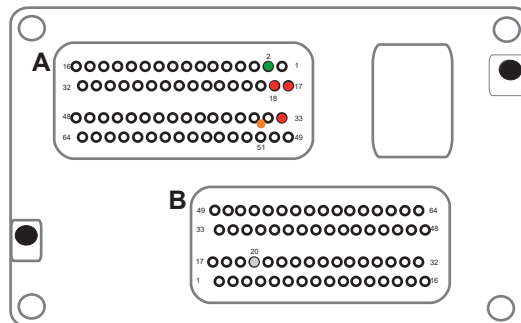
TURUNCU (ORANGE)	KIRMIZI (RED)	SİYAH (BLACK)	BEYAZ (WHITE)	YEŞİL (GREEN)
A - 17	A - 4	A - 4, ECU Chassis	A - 20	A - 53

MAGNETI MARELLI 1.6 FIAT IAW 5SF(HW>200)



TURUNCU (ORANGE)	KIRMIZI (RED)	SİYAH (BLACK)	YEŞİL (GREEN)
A - 29	A - 16	A - 15	A - 10

BOSCH 1.2 FIAT ME73 (313-314)



TURUNCU (ORANGE)	KIRMIZI (RED)	SİYAH (BLACK)	BEYAZ (WHITE)	YEŞİL (GREEN)
A - 51	A - 17,18,33	ECU Chassis	B - 20	A - 2

AUDI SMART KEY(BMC2) PROGRAMMING

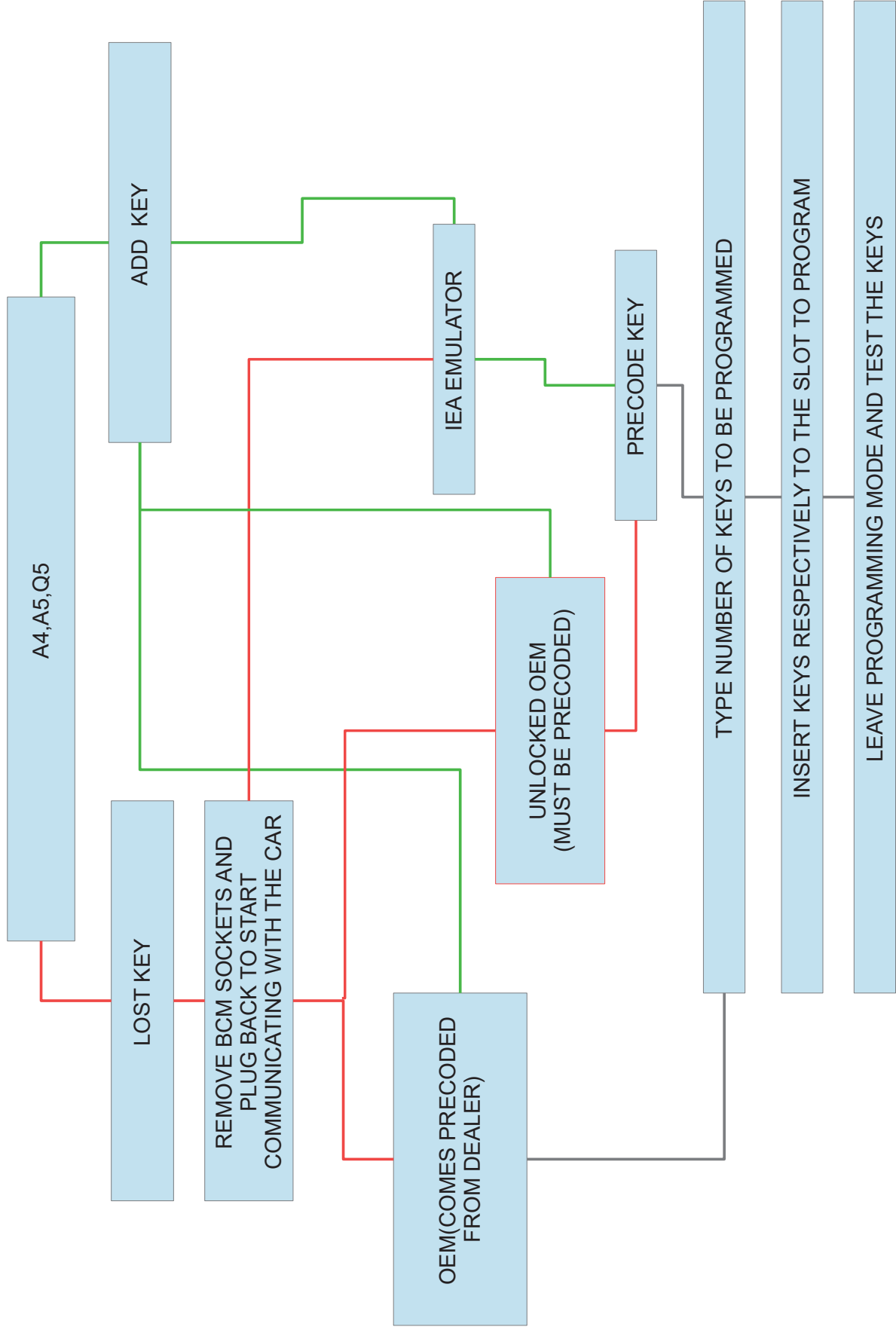


OEM KEY

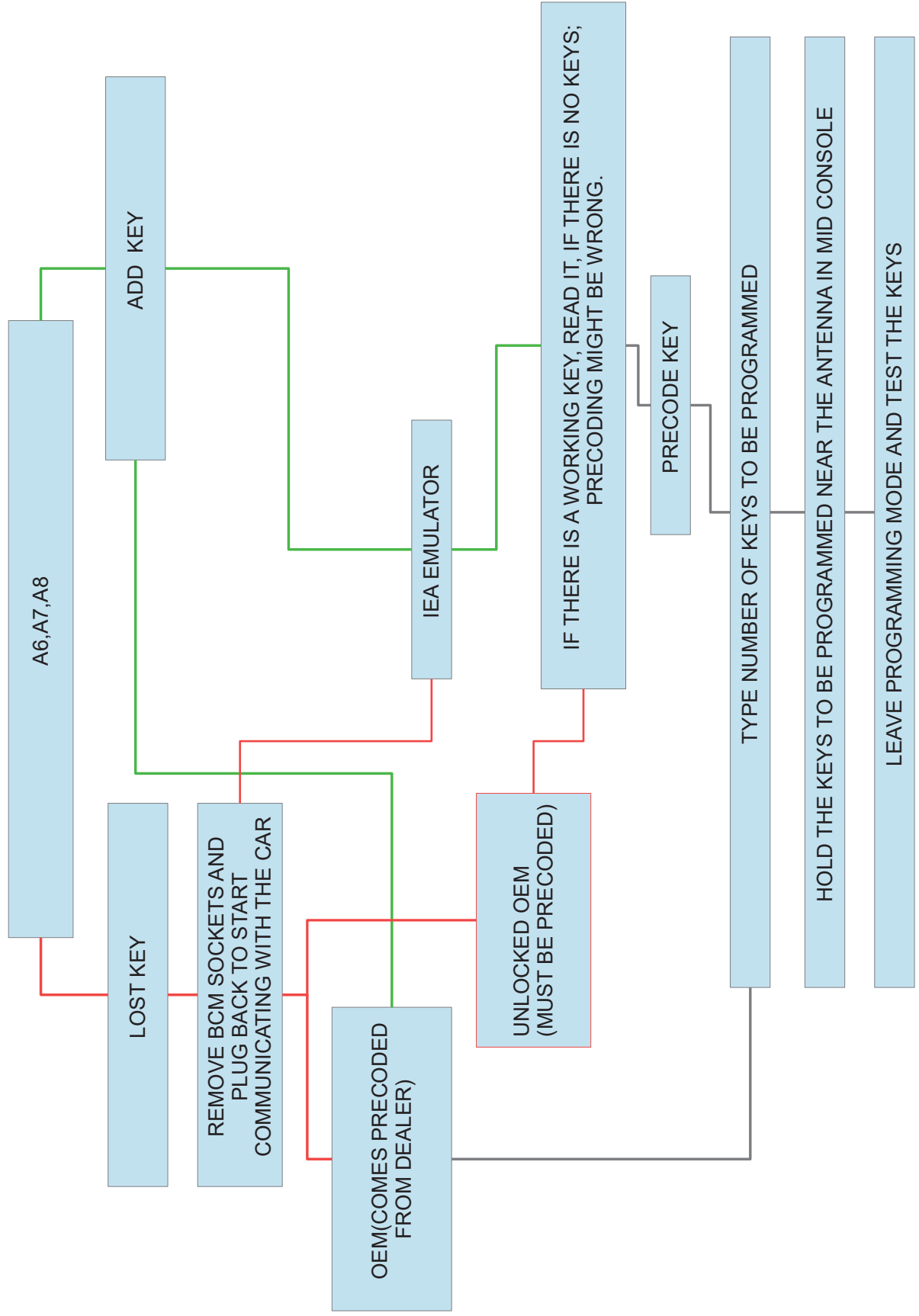


IEA EMULATOR

Audi Smart Key System General Details



Audi Smart Key System General Details



Application Guide

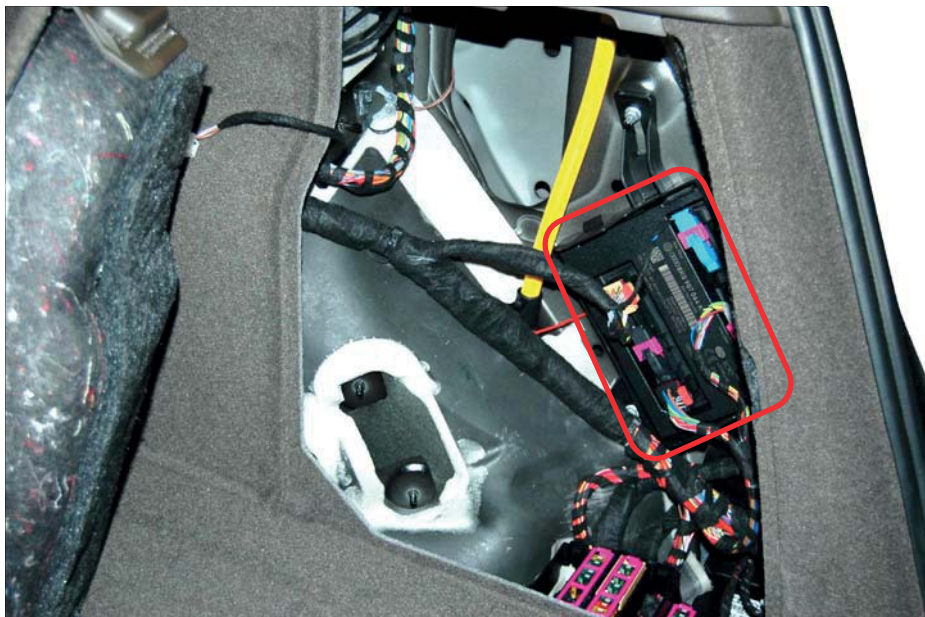
MAKE	MODEL	YEAR	PIN CODE	PRECODE	KEY PROG.	REMOTE PROG.	AUTO IDENTIFY	COMMENT
Audi	A4 slot key	2009-2015	Yes	Yes	Yes	Yes	Yes	
Audi	A5 slot key	2009-2015	Yes	Yes	Yes	Yes	Yes	
Audi	A6 prox	2012-2015	Yes	Yes	Yes	Yes	Yes	If all keys are lost, precoding might not be correct, this may cause programmed key not to start the vehicle.
Audi	A7 prox	2012-2015	Yes	Yes	Yes	Yes	Yes	If all keys are lost, precoding might not be correct, this may cause programmed key not to start the vehicle.
Audi	A8 prox	2011-2015	Yes	Yes	Yes	Yes	Yes	If all keys are lost, precoding might not be correct, this may cause programmed key not to start the vehicle.
Audi	Q5 slot key	2009-2015	Yes	Yes	Yes	Yes	Yes	
Audi	S4 slot key	2009-2015	Yes	Yes	Yes	Yes	Yes	
Audi	S5 slot key	2009-2015	Yes	Yes	Yes	Yes	Yes	
Audi	S6 prox	2012-2015	Yes	Yes	Yes	Yes	Yes	If all keys are lost, precoding might not be correct, this may cause programmed key not to start the vehicle.
Audi	S7 prox	2013-2015	Yes	Yes	Yes	Yes	Yes	If all keys are lost, precoding might not be correct, this may cause programmed key not to start the vehicle.
Audi	S8 prox	2011-2015	Yes	Yes	Yes	Yes	Yes	If all keys are lost, precoding might not be correct, this may cause programmed key not to start the vehicle.
Audi	SQ5 slot key	2009-2015	Yes	Yes	Yes	Yes	Yes	

*Sw might not work for 2015 production vehicles

Removing BCM2 Socket For Lost Key

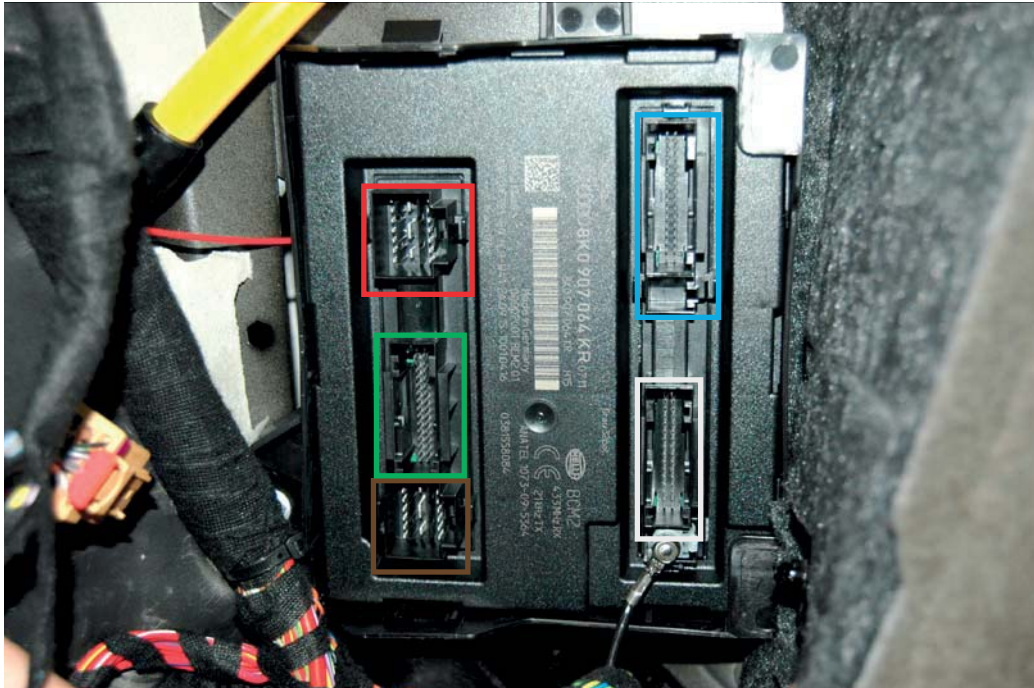


Remove the lid as seen in the picture to get to the BCM2 module

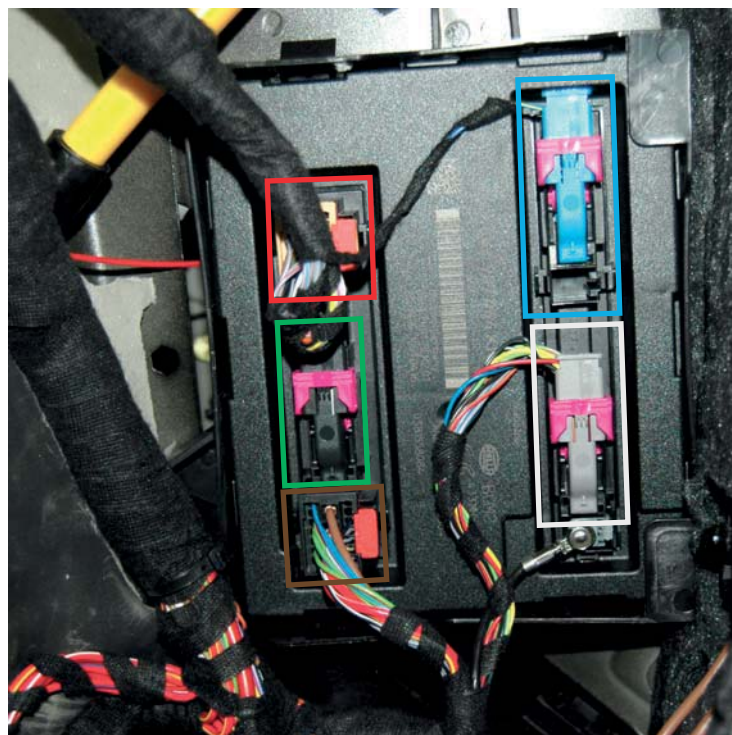


The unit circled in red is the BCM2 unit

Removing BCM2 Socket For Lost Key



Remove all 5 sockets on the BCM2 unit and wait for 5 seconds minimum

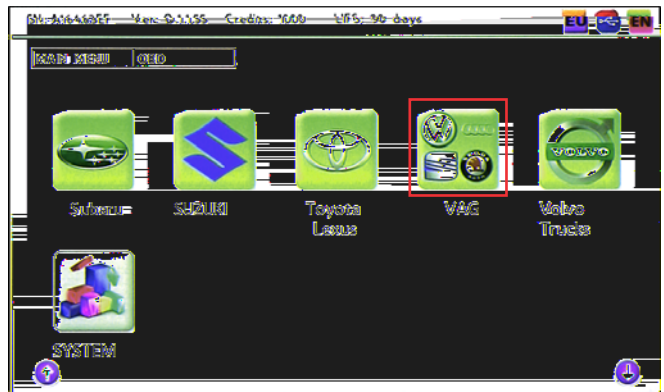


Make sure all the sockets are plugged back to the unit before an attempt to communicate with the car. This will unblock the communication with the car.

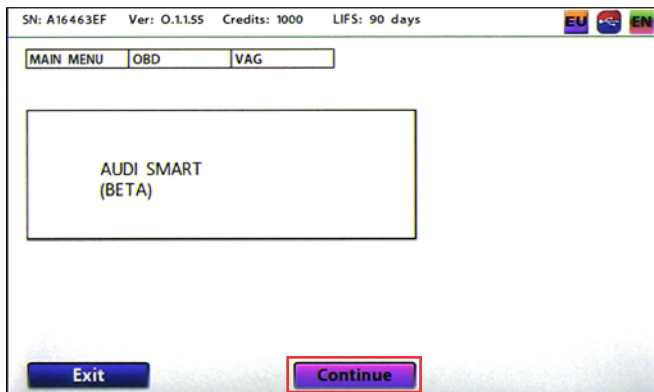
Zed-FULL Audi A4, A5, Q5 (OEM Key Programming) Lost Key Application



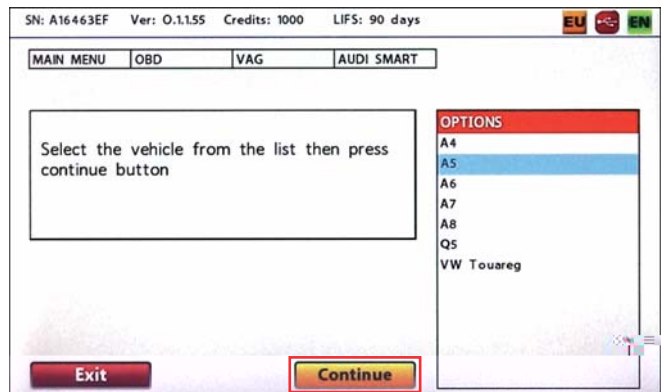
Go to Zed-FULL OBD applications menu



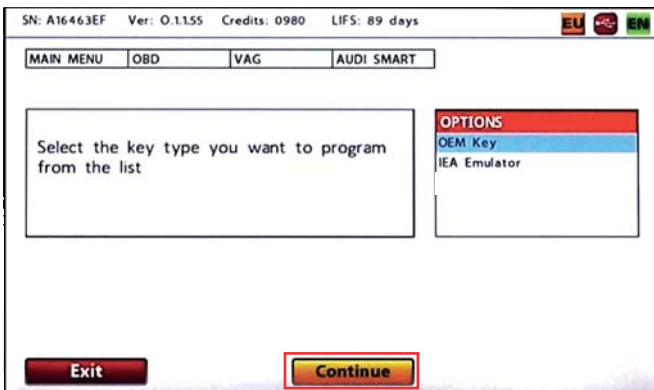
Go to VAG menu



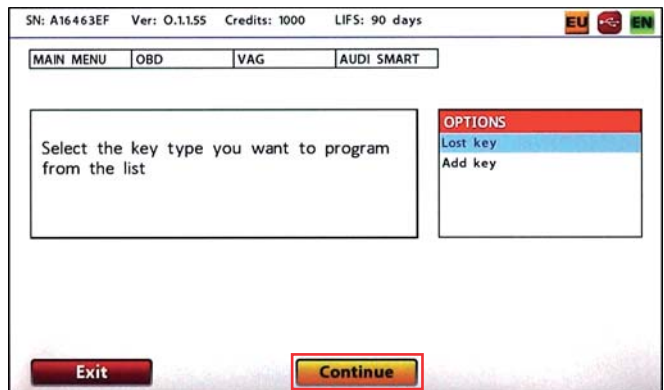
System will be automatically detected



According to the vehicle that you select, Zed-FULL will continue with the appropriate sub system.
A4, A5 and Q5 has same sub system

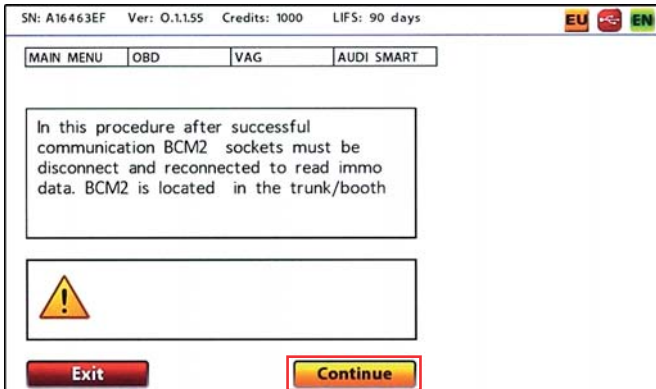


As OEM key option is selected, this key comes already precoded by the dealer, it does not require precoding with Zed-FULL

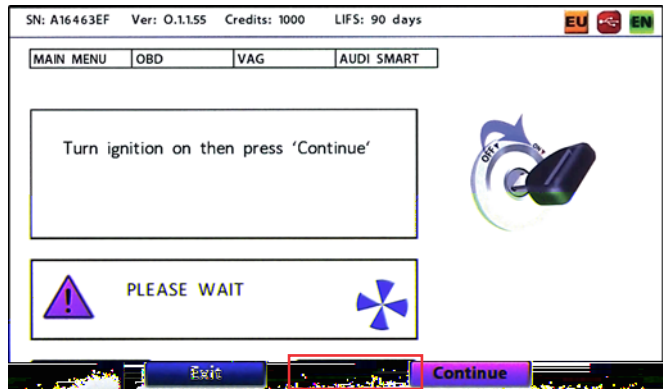


There is no significant difference between lost key and add key situations for A4, A5 and Q5.
If there is no working key, communication with the vehicle will be blocked

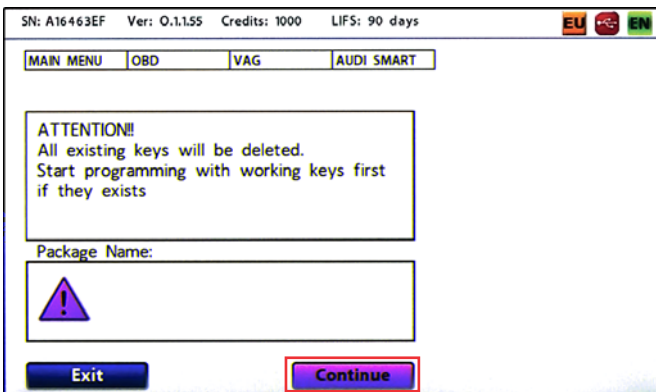
Zed-FULL Audi A4, A5, Q5 (OEM Key Programming) Lost Key Application



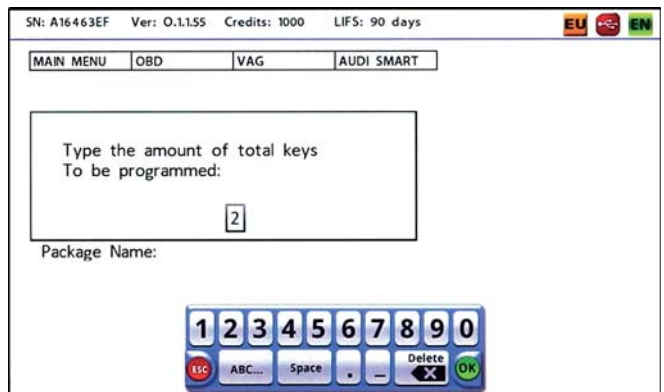
To unblock the communication with the vehicle, all the sockets of the BCM2 unit, which is generally located inside the booth/trunk, needs to be unplugged and plugged back. Refer to page 4 and 5.



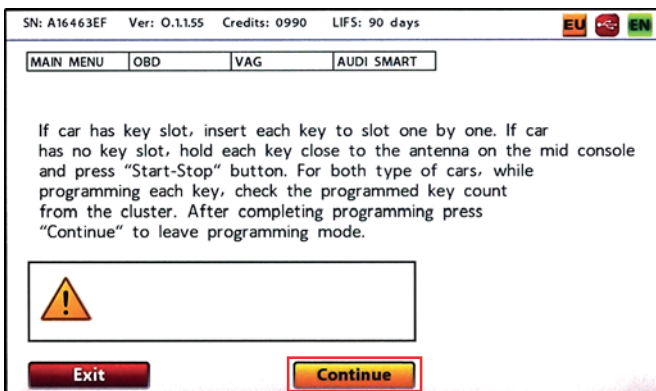
After communication is unblocked, put the key to the slot and push further to turn the ignition to on position.



As per the procedure, all existing keys will be deleted and needs to be programmed back if you have them with you, it is advised to start procedure with existing keys first.



You need to type total amount of keys including working keys and new keys that you will program.

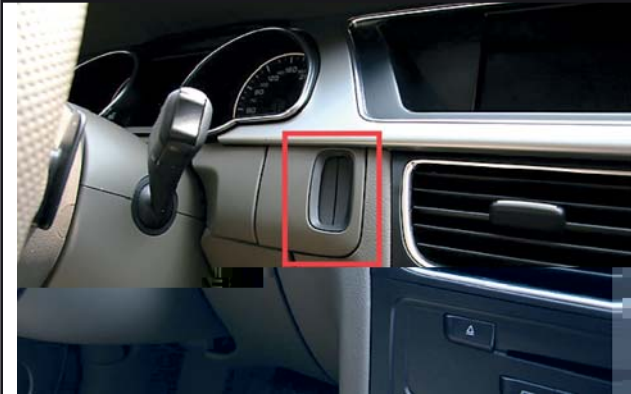


All keys should be inserted to the key slot respectively. To see if the key is programmed or not, follow the instrument cluster indicator.



If there is no key slot, it should be hold near the antenna as seen in the picture.

Zed-FULL Audi A4, A5, Q5 (OEM Key Programming) Lost Key Application



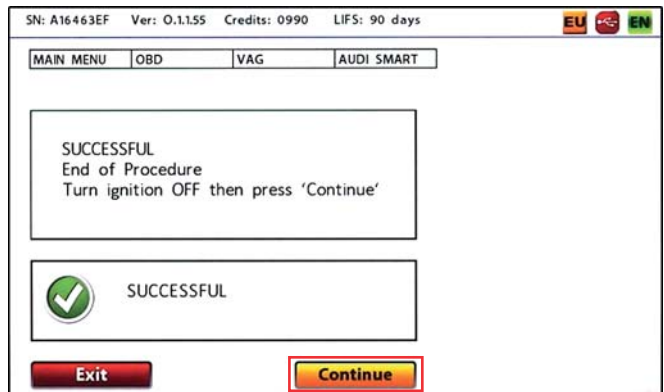
Key slot is located at the right hand side of the steering wheel as seen in the picture



1 / 2 indicator in the instrument cluster means that the first key is programmed successfully and second key needs to be inserted next.



2 / 2 indicator means that second key is also programmed successfully.

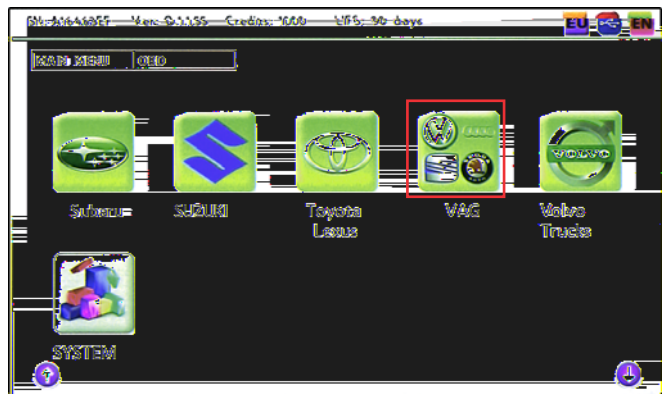


Press Continue to quit programming mode, once the vehicle leave programming mode L3 on the instrument cluster will disappear, if the instrument cluster continue indicating L3, programmed keys will not work.

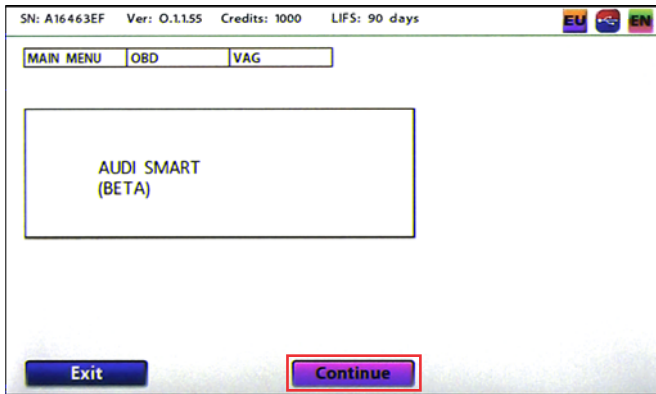
Zed-FULL Audi A4, A5, Q5 (OEM Key Programming) Add Key Application



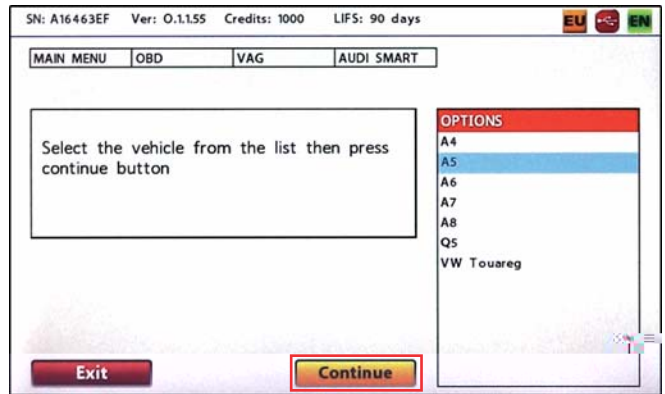
Go to Zed-FULL OBD applications menu



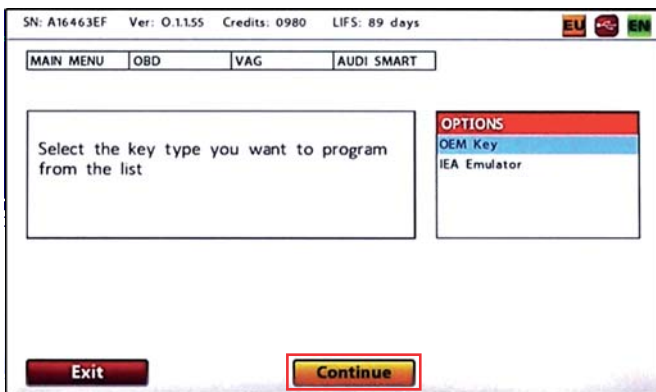
Go to VAG menu



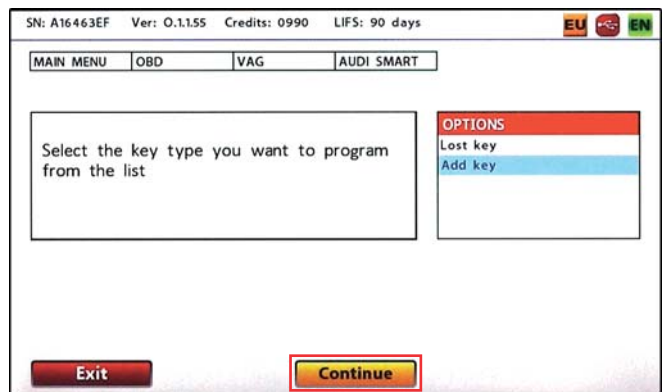
System will be automatically detected



According to the vehicle that you select, Zed-FULL will continue with the appropriate sub system.
A4, A5 and Q5 has same sub system

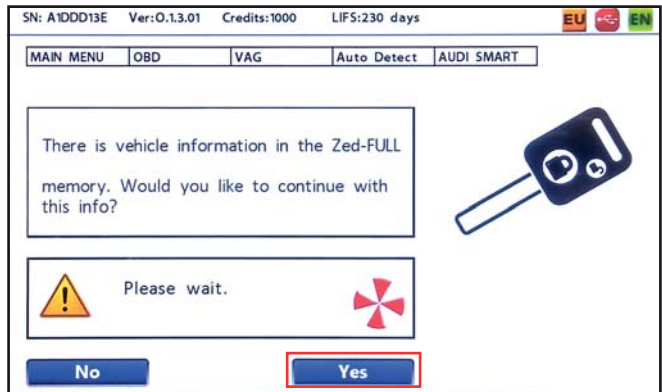
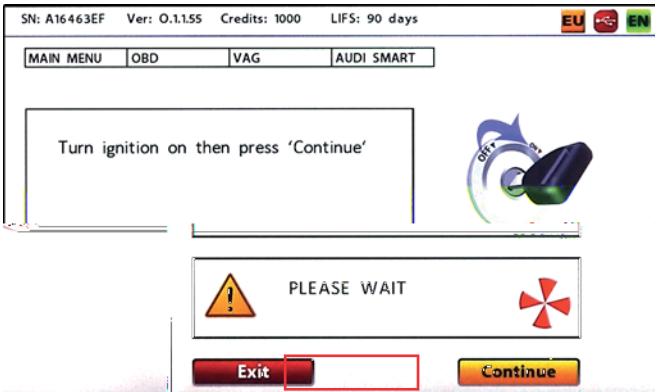


As OEM key option is selected, this key comes already precoded by the delaer, it does not require precoding with Zed-FULL



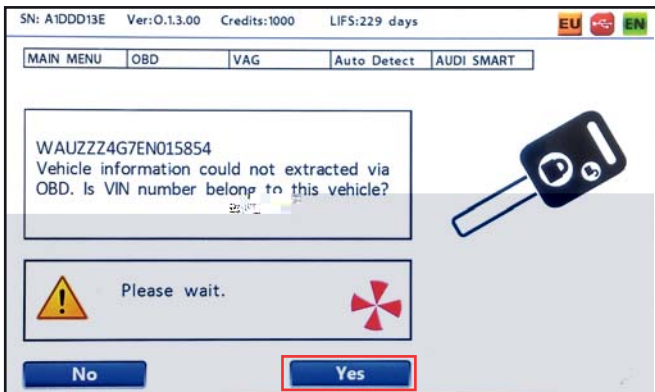
Tere is no significant difference between lost key and add key situations.

Zed-FULL Audi A4, A5, Q5 (OEM Key Programming) Add Key Application



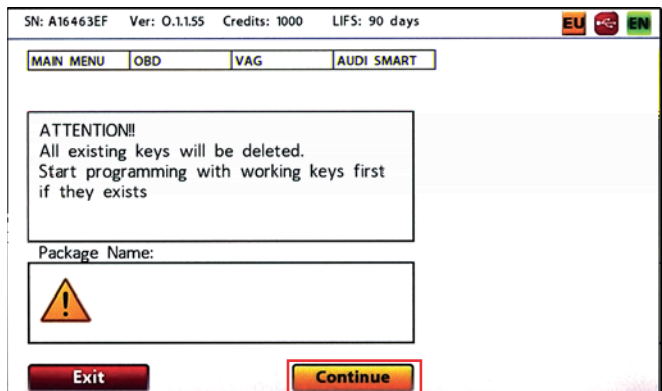
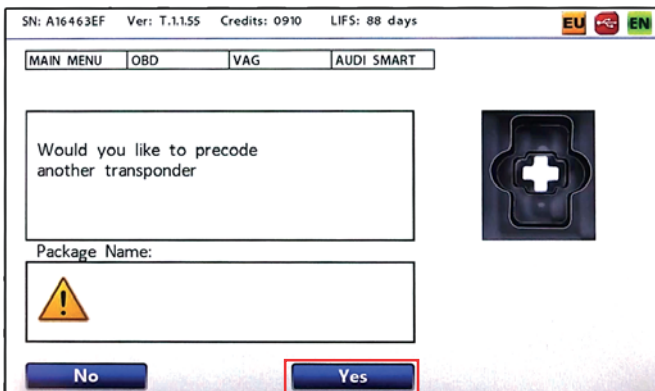
When add key is selected, ignition should be turned on with the working key. If ignition is turned on with an unprogrammed key and "reset BCM2" message is displayed; removing unprogrammed key and turning ignition on with working key will block the BCM2

If vehicle data is read before, Zed-FULL will continue using these data, if not; BCM2 will be read again.



When the BCM2 is blocked, Zed-FULL will display the vin (if saved) please verify the vin. If vin is not displayed select if the model year is before or after 2012.

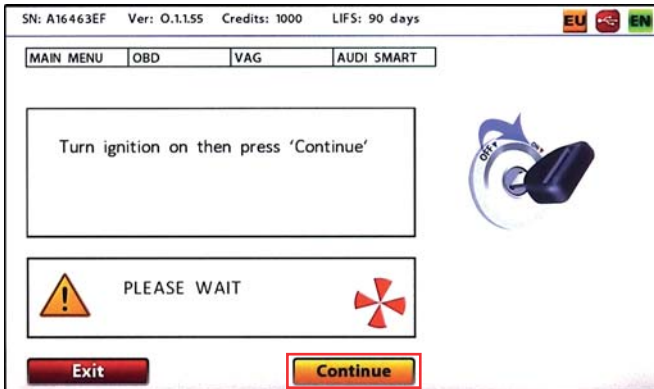
New OEM key is precoded in the Zed-FULL antenna.



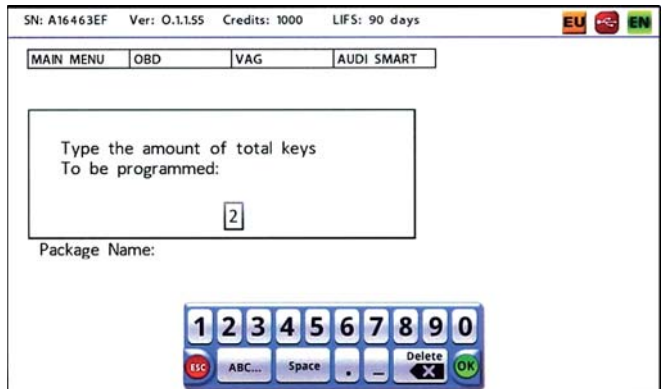
If more than one OEM key needs to be precoded, each new OEM key must be precoded in this step ?

As per the procedure, all existing keys will be deleted and needs to be programmed back if you have them with you, it is advised to start procedure with existing keys first.

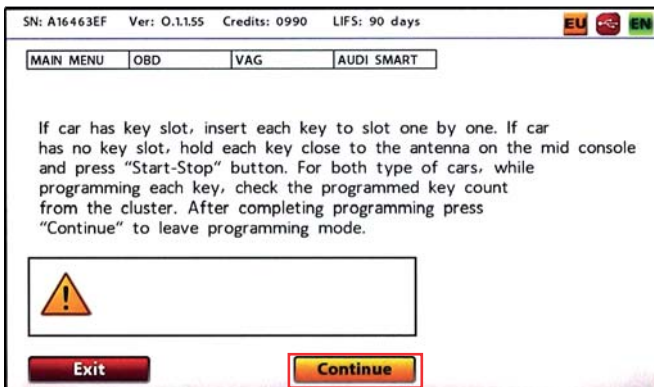
Zed-FULL Audi A4, A5, Q5 (OEM Key Programming) Add Key Application



After communication is unblocked, put the key to the slot and push further to turn the ignition to on position.



You need to type total amount of keys including working keys and new keys that you will program.



All keys should be inserted to the key slot respectively. To see if the key is programmed or not, follow the instrument cluster indicator.



If there is no key slot, it should be hold near the antenna as seen in the picture.



Key slot is located at the right hand side of the steering wheel as seen in the picture

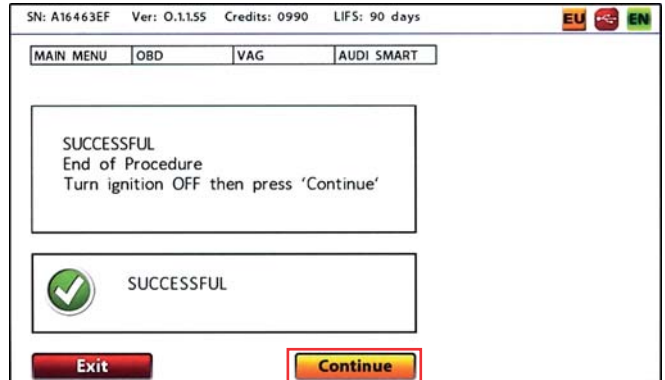


1 / 2 indicator in the instrument cluster means that the first key is programmed successfully and second key needs to be inserted next.

Zed-FULL Audi A4, A5, Q5 (OEM Key Programming) Add Key Application



2 /2 indicator means that second key is also programmed successfully.



Press Continue to quit programming mode, once the vehicle leave programming mode L3 on the instrument cluster will disappear, if the instrument cluster continue indicating L3, programmed keys will not work.

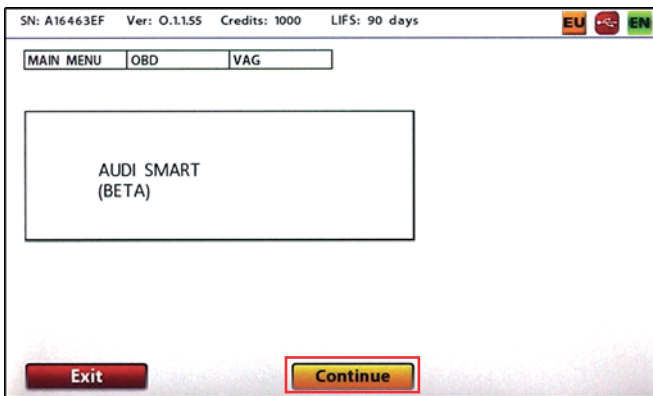
Zed-FULL Audi A4, A5, Q5 (IEA Emulator Programming) Lost Key Application



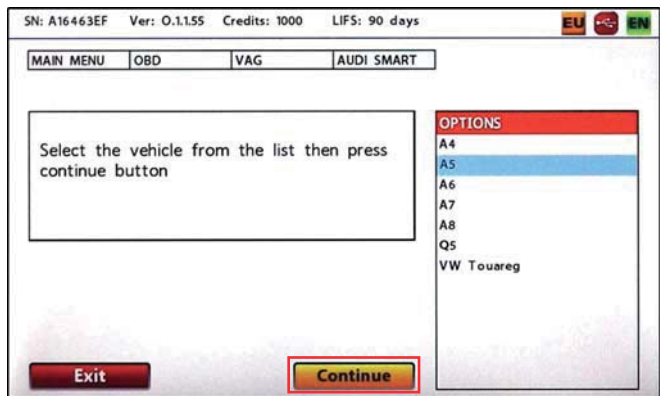
Go to Zed-FULL OBD applications menu



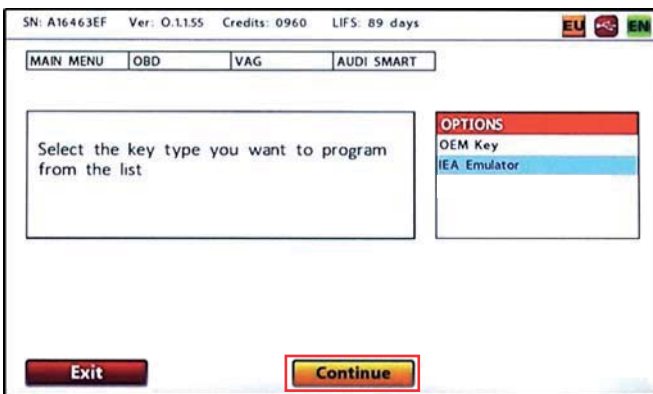
Go to VAG menu



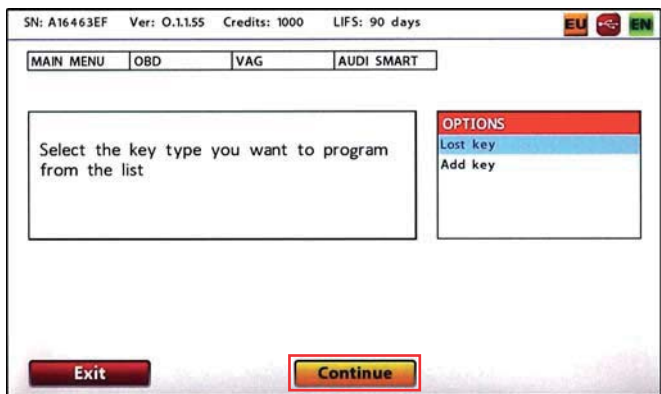
System will be automatically detected



According to the vehicle that you select, Zed-FULL will continue with the appropriate sub system.
A4, A5 and Q5 has same sub system

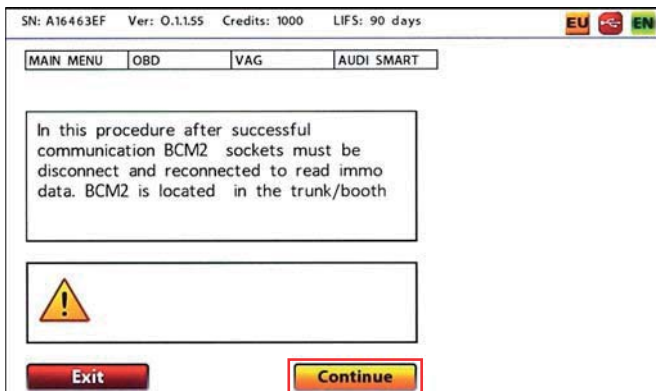


If the key is selected as IEA emulator, it has to be precoded.

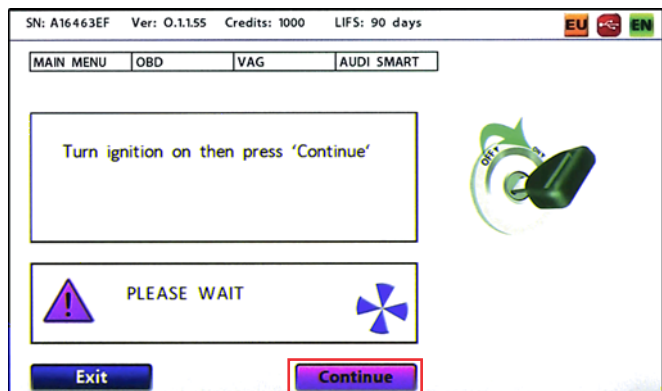


There is no significant difference between lost key and add key situations for A4, A5 and Q5.
If there is no working key, communication with the vehicle will be blocked

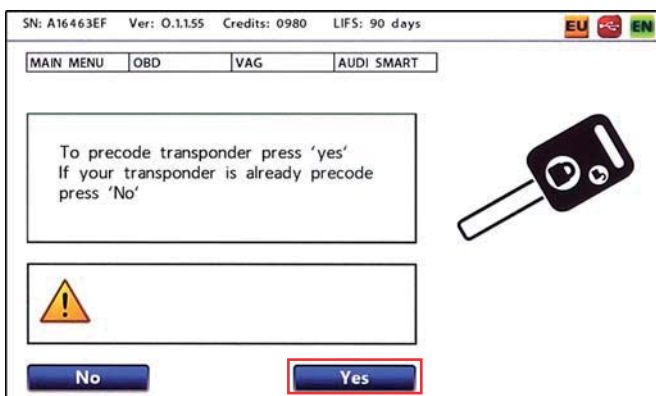
Zed-FULL Audi A4, A5, Q5 (IEA Emulator Programming) Lost Key Application



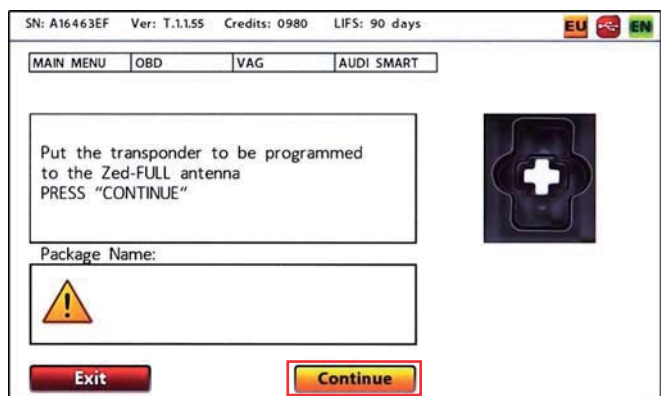
To unblock the communication with the vehicle, all the sockets of the BCM2 unit, which is generally located inside the booth/trunk, needs to be unplugged and plugged back. Refer to page 4 and 5 .



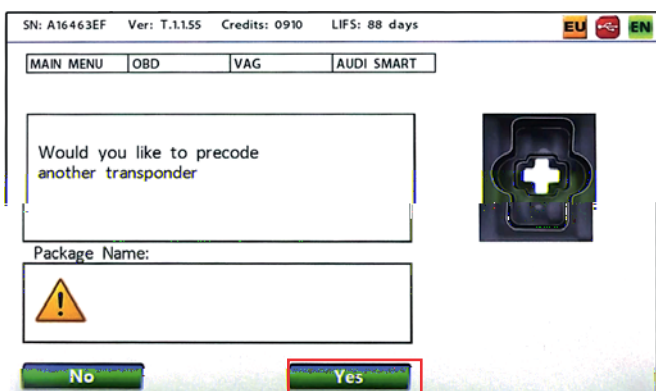
After communication is unblocked, put the key to the slot and push further to turn the ignition to on position.



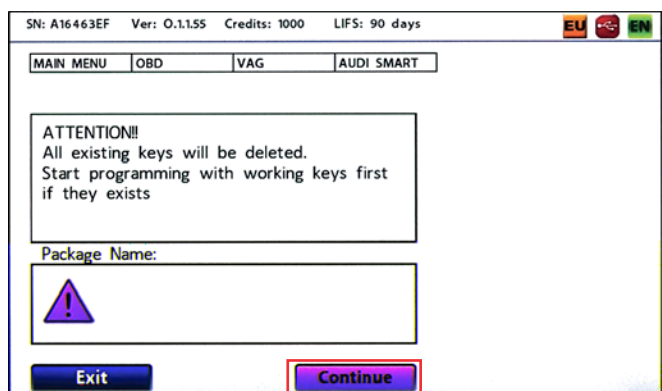
As IEA emulator is not precoded, yes button needs to be pressed here.



IEA emulator is precoded in the Zed-FULL antenna.

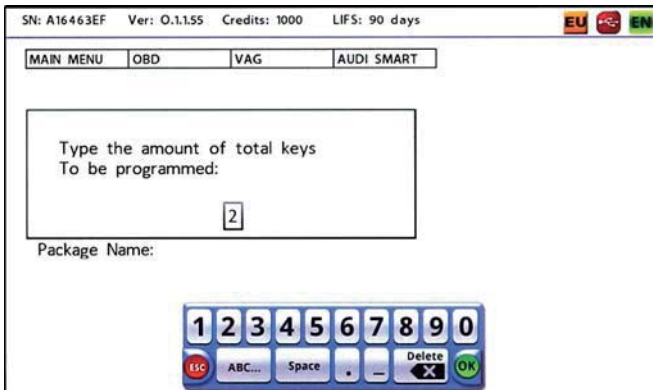


If more than one emulator key needs to be precoded, all emulators must be precoded in this step

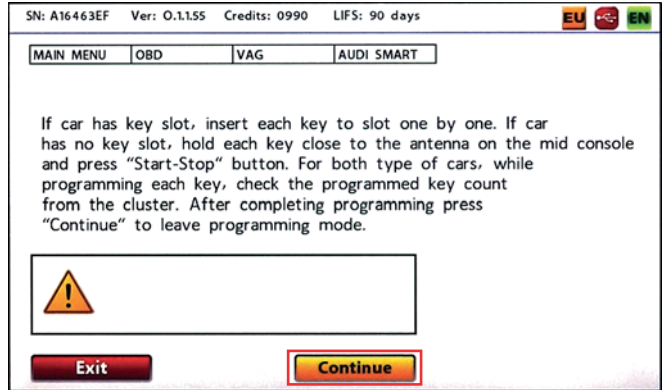


As per the procedure, all existing keys will be deleted and needs to be programmed back if you have them with you, it is advised to start procedure with existing keys first.

Zed-FULL Audi A4, A5, Q5 (IEA Emulator Programming) Lost Key Application



You need to type total amount of keys including working keys and new keys that you will program.



All keys should be inserted to the key slot respectively. To see if the key is programmed or not, follow the instrument cluster indicator.



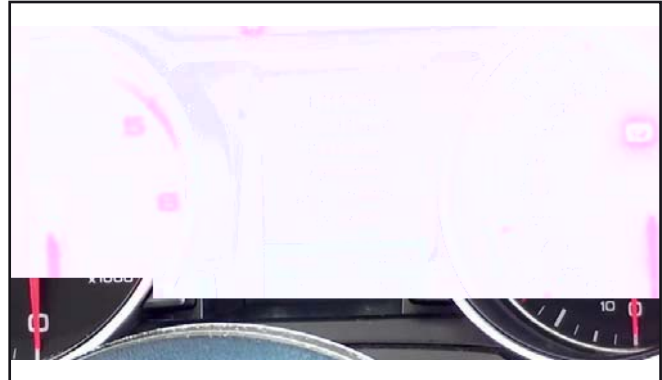
If there is no key slot, it should be hold near the antenna as seen in the picture.



Key slot is located at the right hand side of the steering wheel as seen in the picture

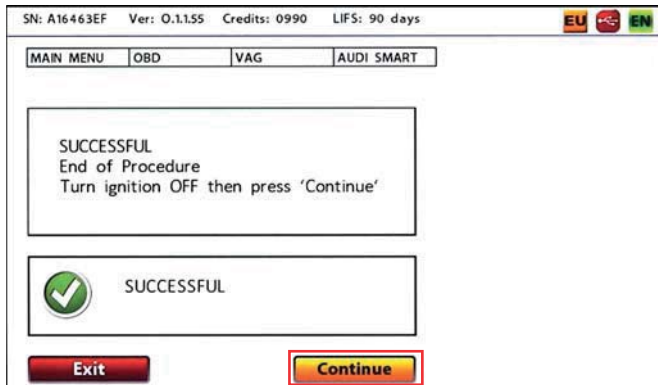


1 / 2 indicator in the instrument cluster means that the first key is programmed successfully and second key needs to be inserted next.



2 / 2 indicator means that second key is also programmed successfully.

Zed-FULL Audi A4, A5, Q5 (IEA Emulator Programming) Lost Key Application

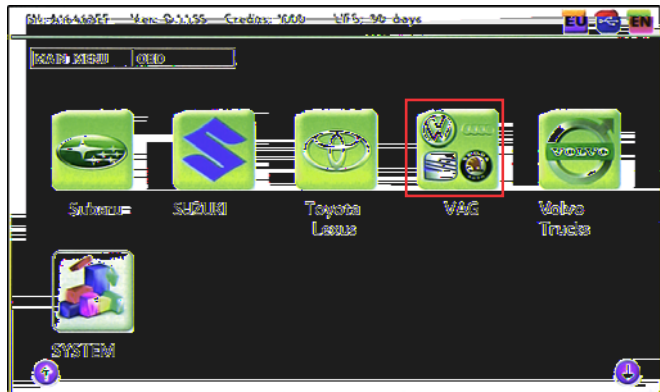


Press Continue to quit programming mode, once the vehicle leave programming mode L3 on the instrument cluster will disappear, if the instrument cluster continue indicating L3, programmed keys will not work.

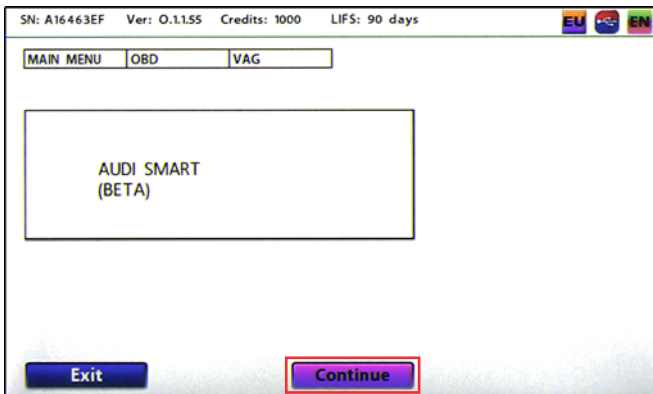
Zed-FULL Audi A4, A5, Q5 (IEA Emulator Programming) Add Key Application



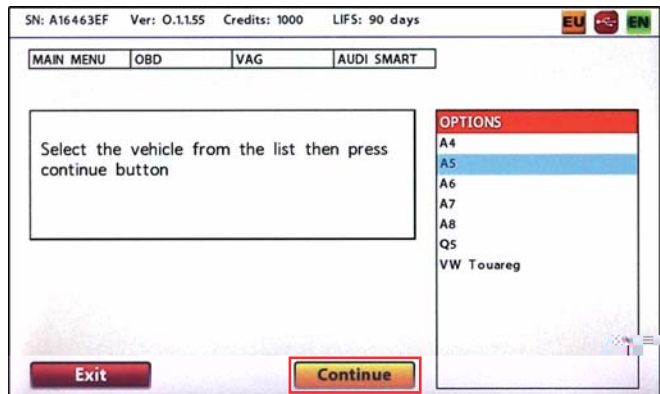
Go to Zed-FULL OBD applications menu



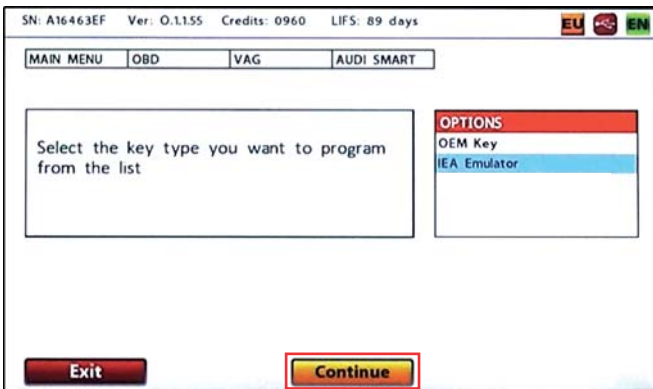
Go to VAG menu



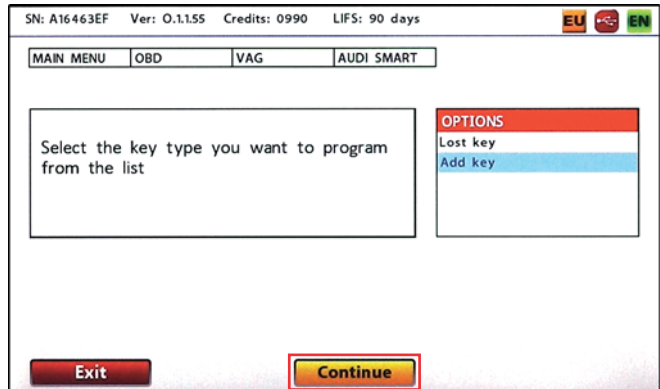
System will be automatically detected



According to the vehicle that you select, Zed-FULL will continue with the appropriate sub system.
A4, A5 and Q5 has same sub system

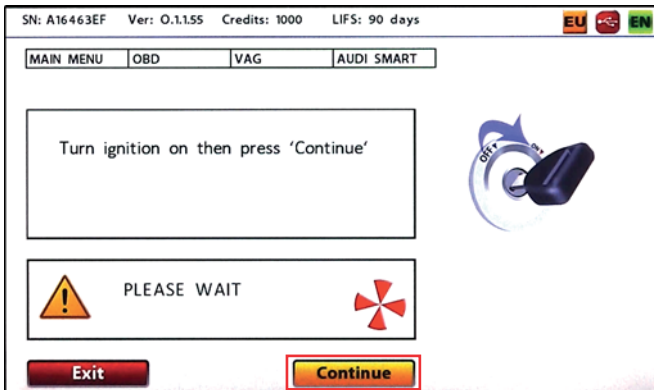


If the key is selected as IEA emulator,
it has to be precoded.

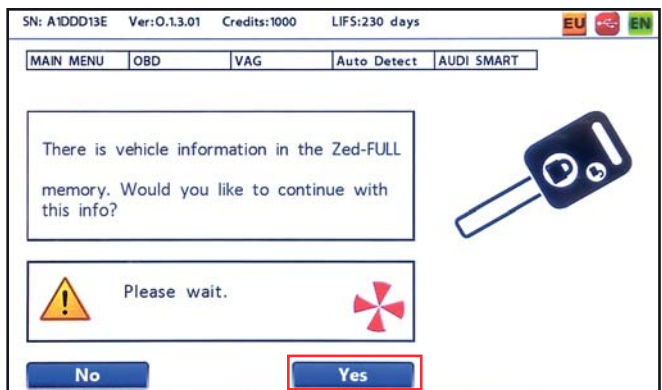


There is no significant difference between lost key and add key situations for A4, A5 and Q5.
If there is no working key, communication with the vehicle will be blocked

Zed-FULL Audi A4, A5, Q5 (IEA Emulator Programming) Add Key Application



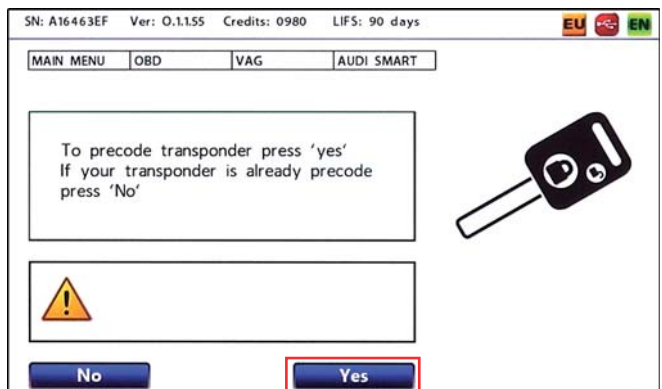
When add key is selected, ignition should be turned on with the working key. If ignition is turned on with an unprogrammed key and "reset BCM2" message is displayed; removing unprogrammed key and turning ignition on with working key will block the BCM2



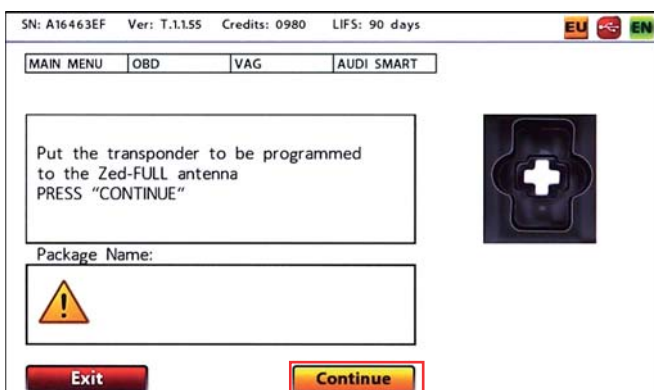
If vehicle data is read before, Zed-FULL will continue using these data, if not; BCM2 will be read again.



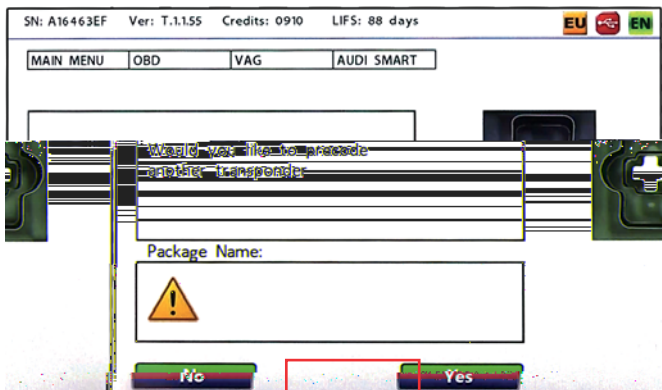
When the BCM2 is blocked, Zed-FULL will display the vin (if saved) please verify the vin. If vin is not displayed select if the model year is before or after 2012.



As IEA emulator is not precoded, yes button needs to be pressed here.

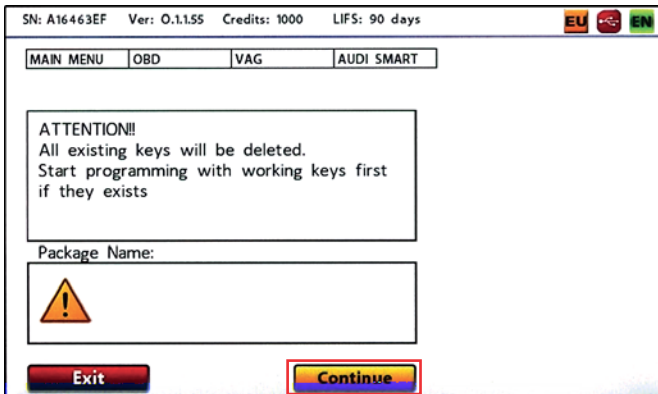


IEA emulator is precoded in the Zed-FULL antenna.

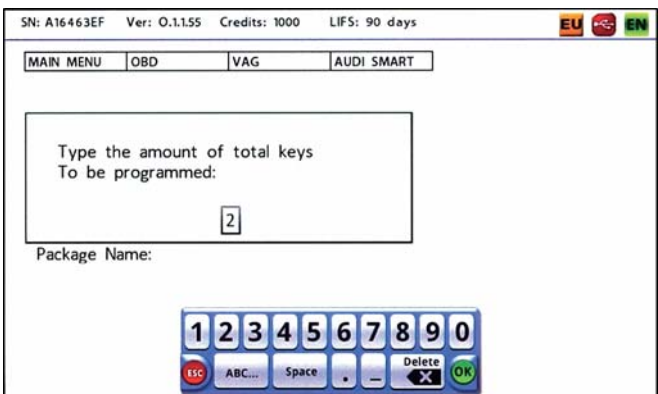


If more than one emulator key needs to be precoded, all emulators must be precoded in this step

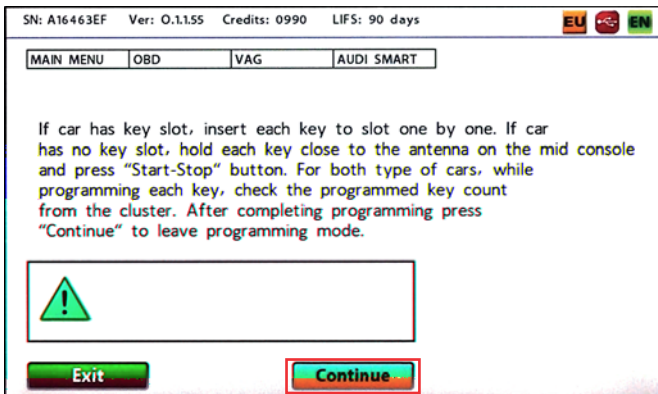
Zed-FULL Audi A4, A5, Q5 (IEA Emulator Programming) Add Key Application



As per the procedure, all existing keys will be deleted and needs to be programmed back if you have them with you, it is advised to start procedure with existing keys first.



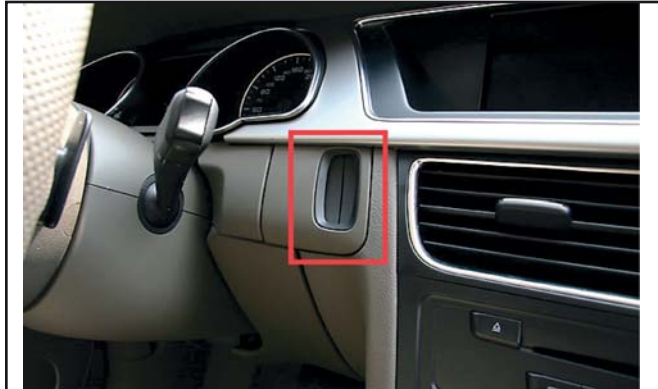
You need to type total amount of keys including working keys and new keys that you will program.



All keys should be inserted to the key slot respectively. To see if the key is programmed or not, follow the instrument cluster indicator.



If there is no key slot, it should be hold near the antenna as seen in the picture.

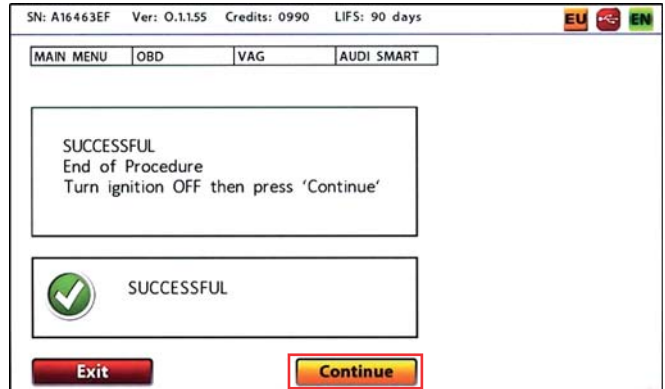


Key slot is located at the right hand side of the steering wheel as seen in the picture



1 / 2 indicator in the instrument cluster means that the first key is programmed successfully and second key needs to be inserted next.

Zed-FULL Audi A4, A5, Q5 (IEA Emulator Programming) Add Key Application



2 /2 indicator means that second key is also programmed successfully.

Press Continue to quit programming mode, once the vehicle leave programming mode L3 on the instrument cluster will disappear, if the instrument cluster continue indicating L3, programmed keys will not work.

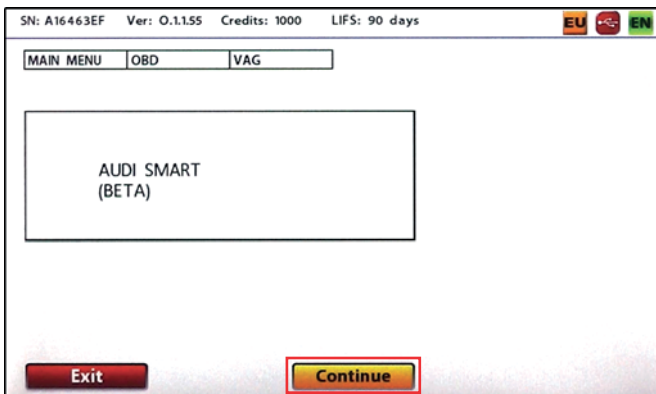
Zed-FULL Audi A6 (IEA Emulator Programming) Add Key Application



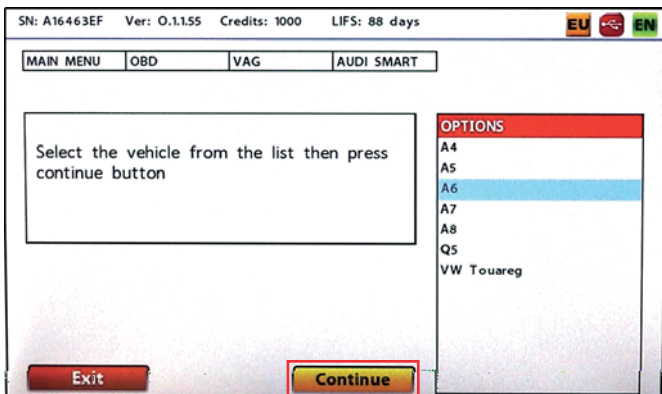
Go to Zed-FULL OBD applications menu



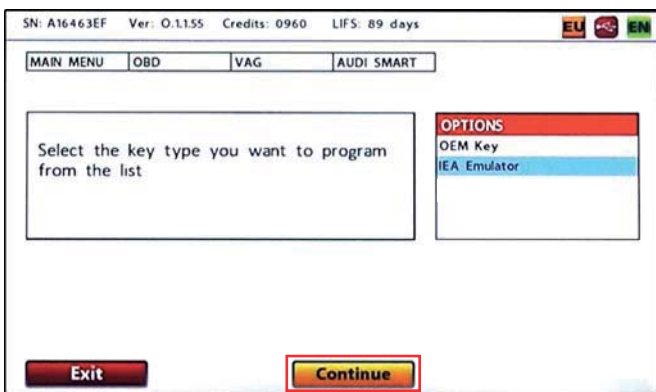
Go to VAG menu



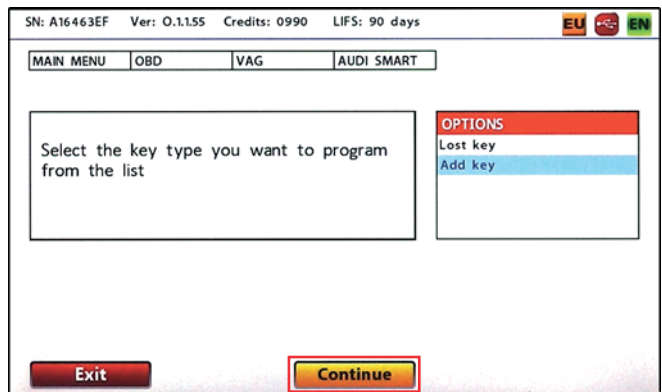
System will be automatically detected



According to the vehicle that you select, Zed-FULL will continue with the appropriate sub system.
A6, A7 and A8 has same sub system

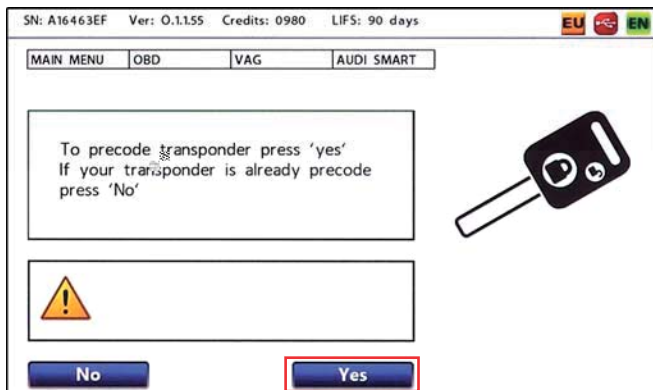


If the key is selected as IEA emulator, it has to be precoded.

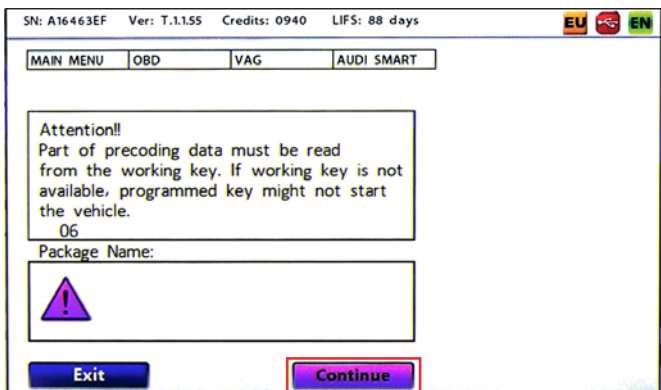


There is no significant difference between lost key and add key situations for A4, A5 and Q5.
If there is no working key, communication with the vehicle will be blocked

Zed-FULL Audi A6 (IEA Emulator Programming) Add Key Application



As IEA emulator is not precoded,
yes button needs to be pressed here.



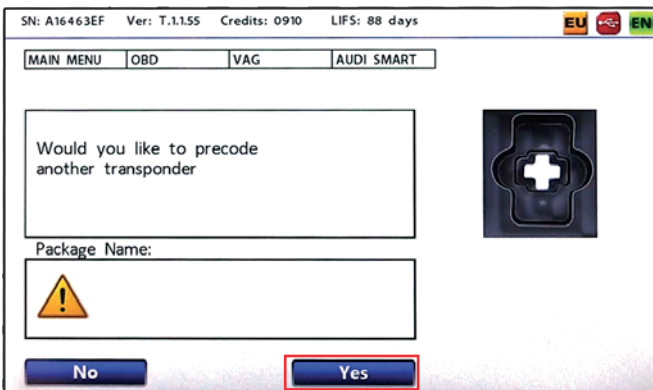
Additional precoding information needs to be read
from the working key, if there is no working
key available, programmed key may not start
the vehicle.



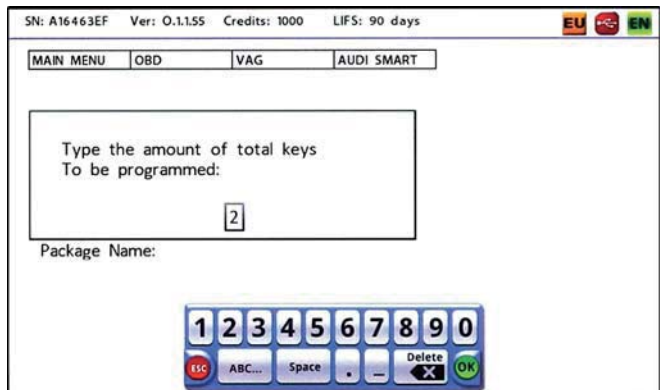
With the additional precoding information taken
from the working key, programmed key will
start the vehicle with no problems.



IEA emulator is precoded in the
Zed-FULL antenna.

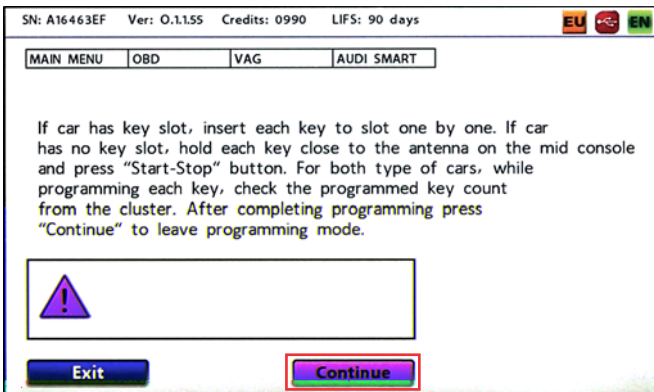


If more than one emulator key needs
to be precoded, all emulators
must be precoded in this step



You need to type total amount of keys including
working keys and new keys that you will program.

Zed-FULL Audi A6 (IEA Emulator Programming) Add Key Application



All keys should be inserted to the key slot respectively.
To see if the key is programmed or not,
follow the instrument cluster indicator.

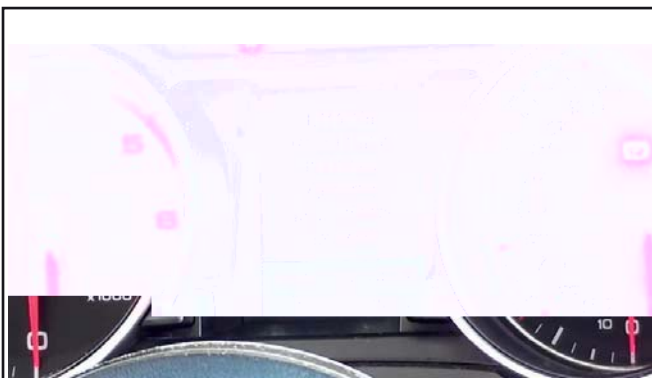
If there is no key slot, it should be hold near
the antenna as seen in the picture.



Key slot is located at the right hand side
of the steering wheel as seen in the picture



1 / 2 indicator in the instrument cluster means that
the first key is programmed successfully
and second key needs to be inserted next.



2 / 2 indicator means that second key is also
programmed successfully.



Press Continue to quit programming mode,
once the vehicle leave programming mode L3 on
the instrument cluster will disappear, if the instrument
cluster continue indicating L3, programmed keys
will not work.

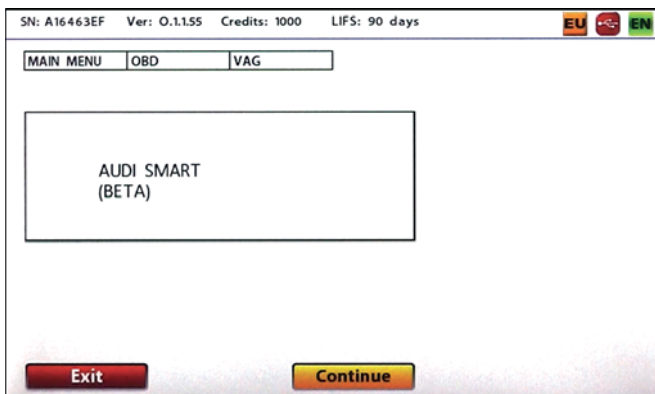
Zed-FULL Audi A6 (OEM Key Programming) Lost Key Application



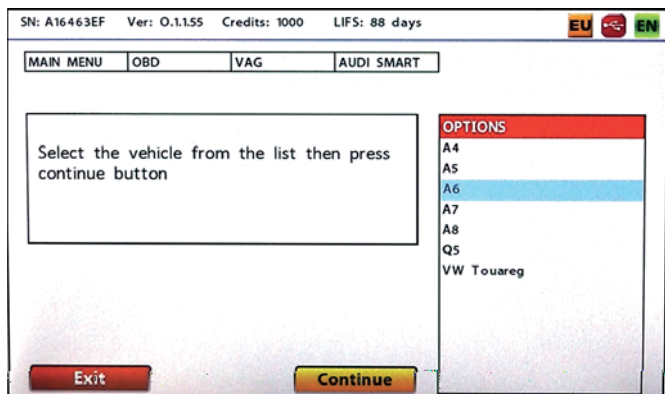
Go to Zed-FULL OBD applications menu



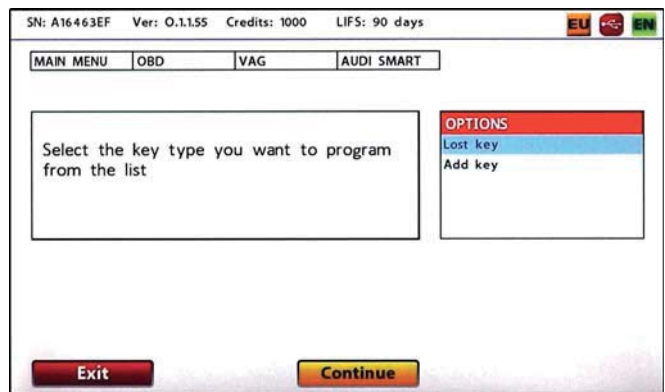
Go to VAG menu



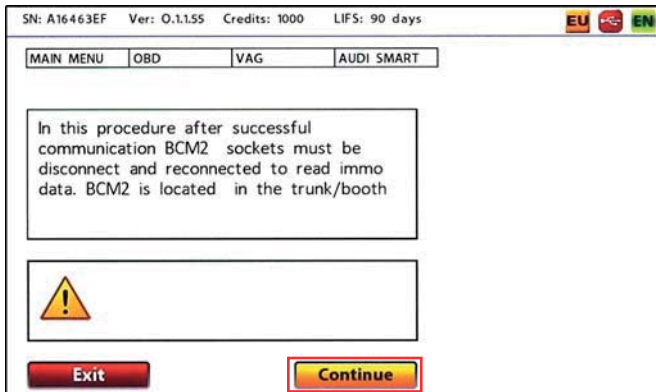
System will be automatically detected



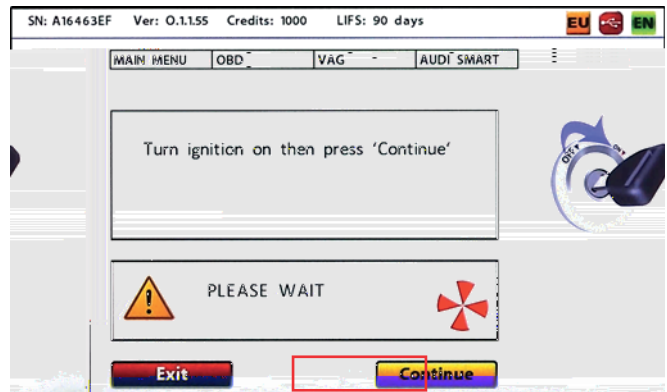
According to the vehicle that you select, Zed-FULL will continue with the appropriate menu



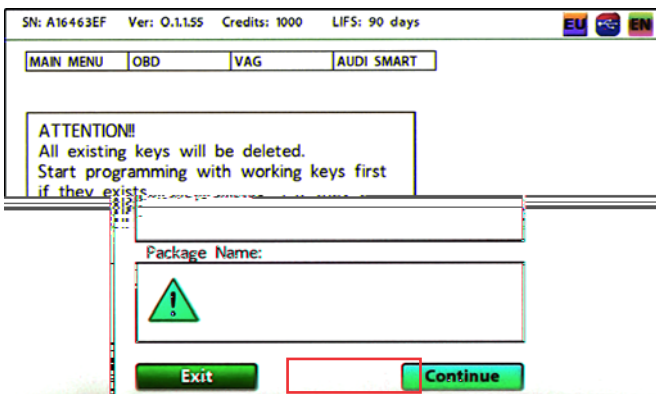
Zed-FULL Audi A6 (OEM Key Programming) Lost Key Application



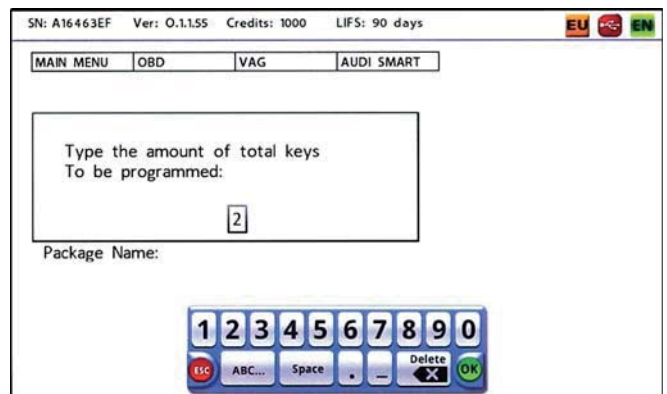
To unblock the communication with the vehicle, all the sockets of the BCM2 unit, which is generally located inside the booth/trunk, needs to be unplugged and plugged back. Refer to page 4 and 5.



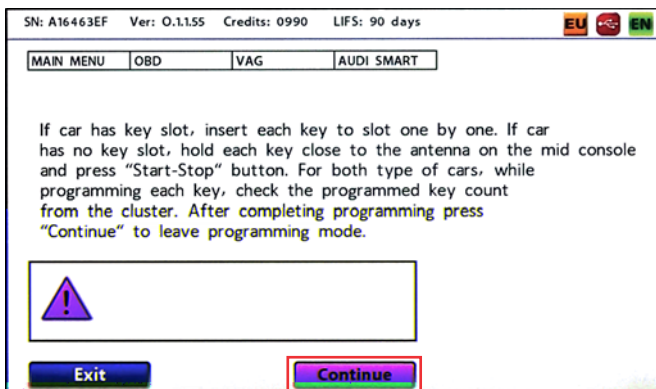
After communication is unblocked, put the key to the slot and push further to turn the ignition to on position.



As per the procedure, all existing keys will be deleted and needs to be programmed back if you have them with you, it is advised to start procedure with existing keys first.



You need to type total amount of keys including working keys and new keys that you will program.

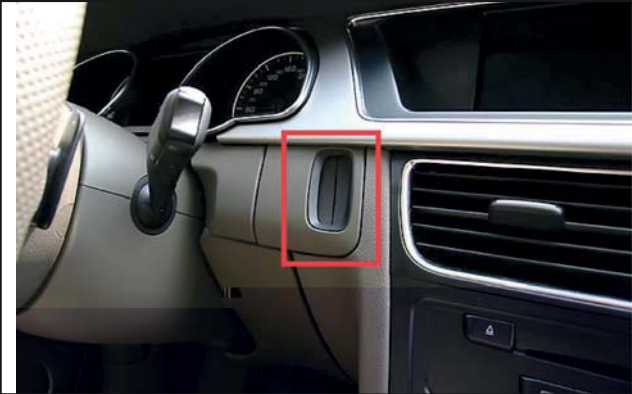


All keys should be inserted to the key slot respectively. To see if the key is programmed or not, follow the instrument cluster indicator.



If there is no key slot, it should be hold near the antenna as seen in the picture.

Zed-FULL Audi A6 (OEM Key Programming) Lost Key Application



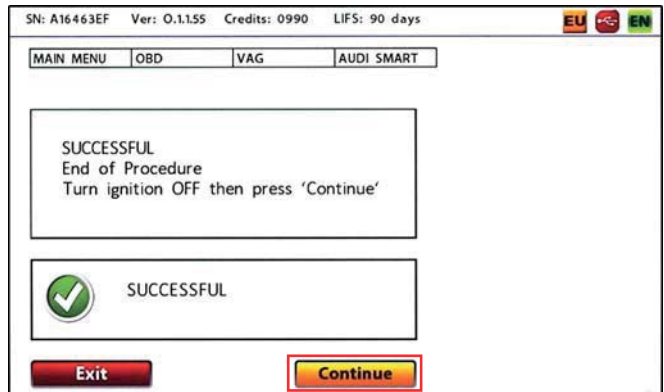
Key slot is located at the right hand side of the steering wheel as seen in the picture



1 / 2 indicator in the instrument cluster means that the first key is programmed successfully and second key needs to be inserted next.



2 / 2 indicator means that second key is also programmed successfully.

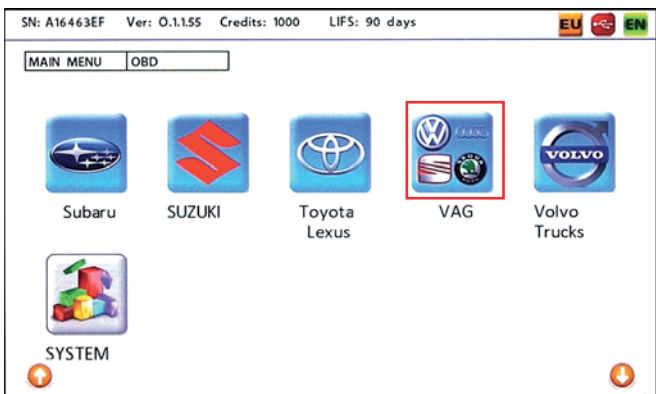


Press Continue to quit programming mode, once the vehicle leave programming mode L3 on the instrument cluster will disappear, if the instrument cluster continue indicating L3, programmed keys will not work.

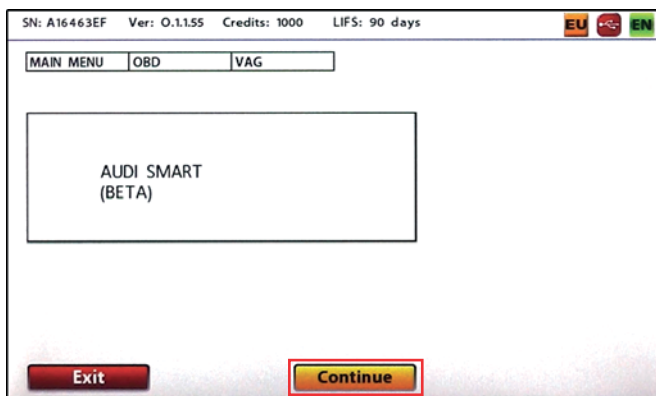
Zed-FULL Audi A6 (OEM Key Programming) Add Key Application



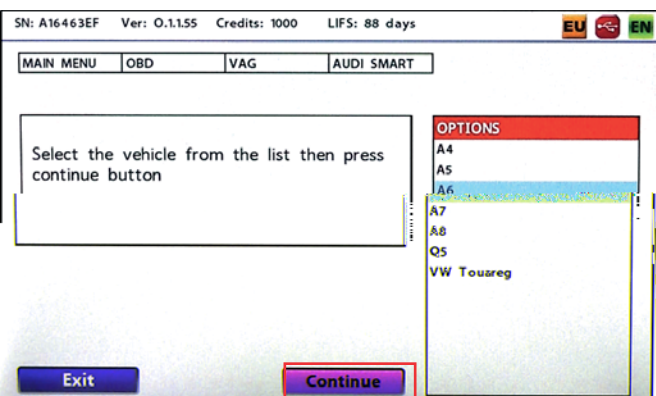
Go to Zed-FULL OBD applications menu



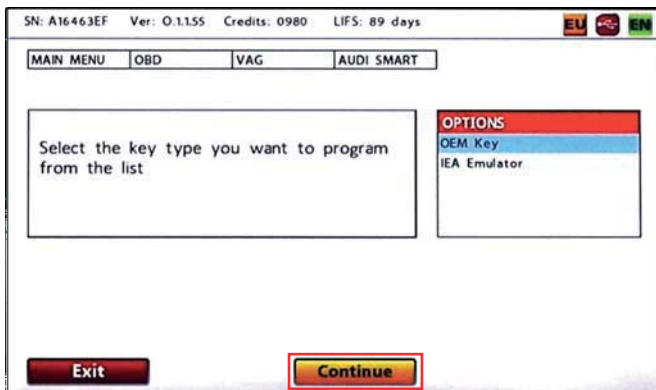
Go to VAG menu



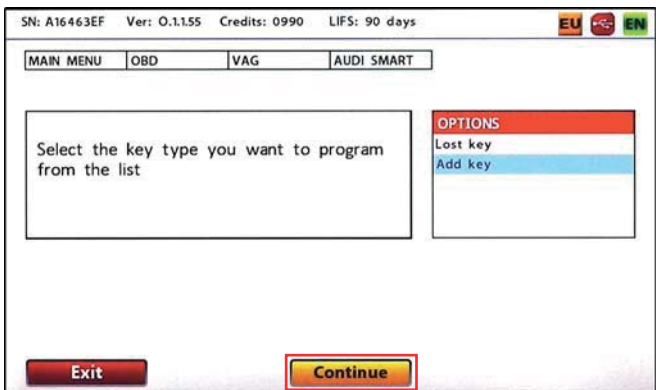
System will be automatically detected



According to the vehicle that you select, Zed-FULL will continue with the appropriate sub system.
A6, A7 and A8 has same sub system

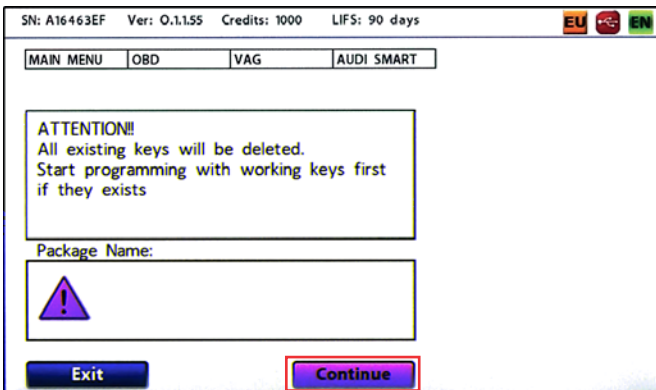


As OEM key option is selected, this key comes already precoded by the dealer, it does not require precoding with Zed-FULL

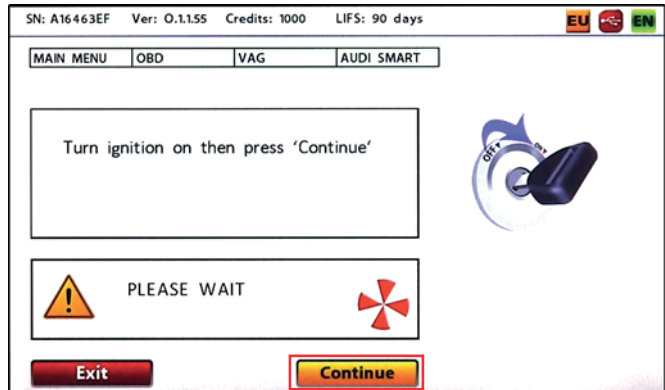


There is no significant difference between lost key and add key situations.

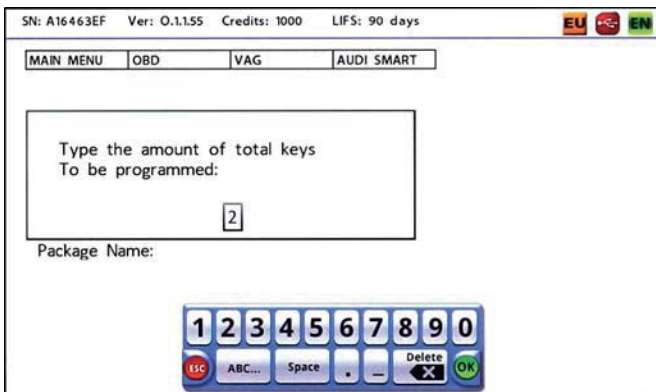
Zed-FULL Audi A6 (OEM Key Programming) Add Key Application



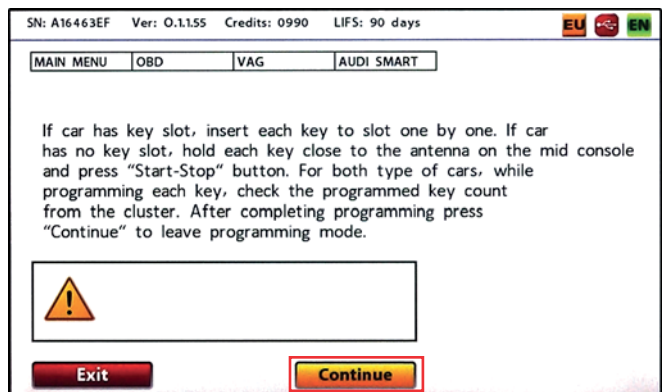
As per the procedure, all existing keys will be deleted and needs to be programmed back if you have them with you, it is advised to start procedure with existing keys first.



After communication is unblocked, put the key to the slot and push further to turn the ignition to on position.



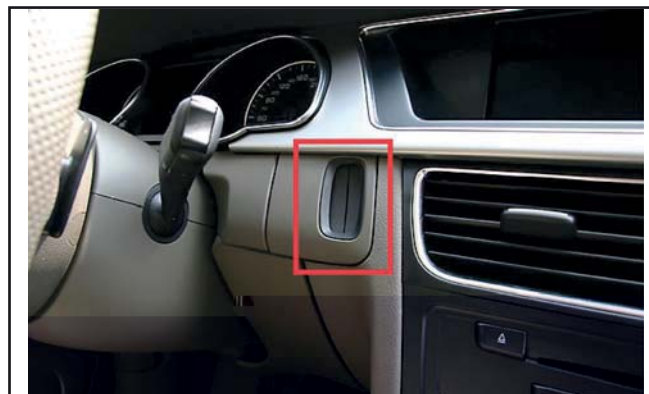
You need to type total amount of keys including working keys and new keys that you will program.



All keys should be inserted to the key slot respectively. To see if the key is programmed or not, follow the instrument cluster indicator.



If there is no key slot, it should be hold near the antenna as seen in the picture.



Key slot is located at the right hand side of the steering wheel as seen in the picture

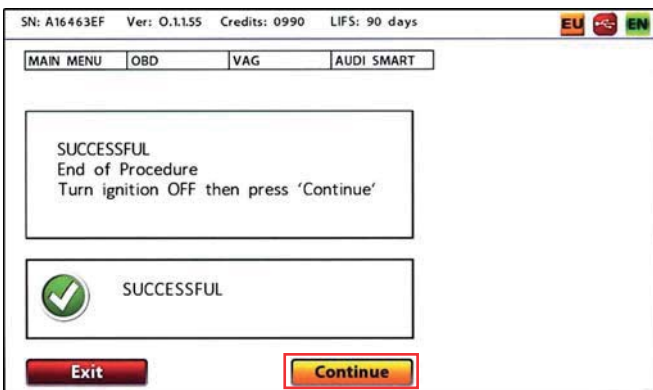
Zed-FULL Audi A6 (OEM Key Programming) Add Key Application



1 / 2 indicator in the instrument cluster means that the first key is programmed successfully and second key needs to be inserted next.



2 / 2 indicator means that second key is also programmed successfully.



Press Continue to quit programming mode, once the vehicle leave programming mode L3 on the instrument cluster will disappear, if the instrument cluster continue indicating L3, programmed keys will not work.

ADAPTERS FOR BMW APPLICATION



ZFH-EA1 ADAPTER (8 Pin)



ZFH-EA3 TEST CLIP (52 Pin)



ZFH-EA4 ADAPTER (52 Pin)



ZFH-EA7 SECURITY ADAPTER



ZFH-C04 CABLE



ZFH-C09 CABLE



BM-FEM APPLICATION MODULE



Zed-FULL BMW APPLICATION

SYSTEM	BY OBD	BY SOCKET	BY EEPROM	MASK NUMBER	MODULE NUMBER
CAS1 (Type 1)	YES	ZFH-C04 ZFH-C09	YES ZFH-EA7	0K50E	202
CAS1 (Type 2)	YES	ZFH-C04 ZFH-C09	YES ZFH-EA7	2K79X,0L01Y	247
CAS2	YES	ZFH-C04 ZFH-C09	YES ZFH-EA7	2K79X,0L01Y	203
CAS3 (Type 1)	YES	ZFH-C04 ZFH-C09	YES ZFH-EA7	0L15Y,0M23S	204
CAS3 (Type 2)	YES	ZFH-C04 ZFH-C09	YES ZFH-EA7	2K79X,0L01Y	248
CAS3+	YES	ZFH-C04 ZFH-C09	YES ZFH-EA7	0L15Y,0M23S	205
CAS3++	YES	ZFH-C04 ZFH-C09	YES ZFH-EA7	0L15Y,0M23S	205
CAS4	NO	NO	YES ZFH-EA7	1L15Y,5M48H, 1N35H	263
CAS4+	NO	NO	YES ZFH-EA7	1L15Y,5M48H, 1N35H	263
FEM/BDC	YES	NO	NO ZFH-EA1, BM-FEM	NO	NO
EWS1	NO	NO	YES ZFH-EA4	0D46J,1D47J, *2D47J	50
EWS2	NO	NO	YES ZFH-EA4	0D46J,1D47J, *2D47J	52
EWS3	YES (0D46J)	NO	YES	ZFH-EA4, 0D46J,1D47J, ZFH-EA3 *2D47J	51
EWS4	NO	NO	YES	ZFH-EA7 2L86D	108

means

Need another eeprom reader for 2D47J mask number.

Zed-FULL BMW APPLICATION

IN CIRCUIT(EEPROM APP.) PC SOFTWARE		CAS BOX SOCKET (WITH C04 / C09 CABLE)		OBD	
CAS1	READ/WRITE	Reading and writing possible.	Read only	READ/WRITE	Read only
	KEY PROGRAMME	On to Pcf7936	On to Pcf7936	KEY PROGRAMME	On to Pcf7936
	REMOTE KEY PROGRAMME	On to original remote key or IEA remote key or Chinese remote key	On to original remote key or IEA remote key or Chinese remote key	REMOTE KEY PROGRAMME	On to original remote key or IEA remote key or Chinese remote key
	ERASE KEY	Can be overwritten on to existing key position, or key can be added to empty key position	Can be overwritten on to existing key position, or key can be added to empty key position	ERASE KEY	Can be overwritten on to existing key position, or key can be added to empty key position
CAS2	READ/WRITE	Reading and writing possible.	Read only	READ/WRITE	Read only
	KEY PROGRAMME	On to Pcf7936	On to Pcf7936	KEY PROGRAMME	On to Pcf7936
	REMOTE KEY PROGRAMME	On to original remote key or IEA remote key or Chinese remote key	On to original remote key or IEA remote key or Chinese remote key	REMOTE KEY PROGRAMME	On to original remote key or IEA remote key or Chinese remote key
	ERASE KEY	Can be overwritten on to existing key position, or key can be added to empty key position	Can only be overwritten on to existing key position, or key can be added to empty key position	ERASE KEY	Can be overwritten on to existing key position, or key can be added to empty key position
CAS3	READ/WRITE	Reading and writing possible.	Read only	READ/WRITE	Read only
	KEY PROGRAMME	On to Pcf7936	On to Pcf7936	KEY PROGRAMME	On to Pcf7936
	REMOTE KEY PROGRAMME	On to original remote key or Chinese remote key	On to original remote key or IEA remote key or Chinese remote key	REMOTE KEY PROGRAMME	On to original remote key or IEA remote key or Chinese remote key
	ERASE KEY	Can be overwritten on to existing key position, or key can be added to empty key position	Can be overwritten on to existing key position, or key can be added to empty key position	ERASE KEY	Can be overwritten on to existing key position, or key can be added to empty key position
CAS3+	READ/WRITE	Reading and writing possible.	Read only	READ/WRITE	Read only
	KEY PROGRAMME	On to Pcf7936	On to Pcf7936	KEY PROGRAMME	On to Pcf7936
	REMOTE KEY PROGRAMME	On to original remote key or IEA remote key or Chinese remote key	On to original remote key or IEA remote key or Chinese remote key	REMOTE KEY PROGRAMME	On to original remote key or IEA remote key or Chinese remote key
	ERASE KEY	Can be overwritten on to existing key position, or key can be added to empty key position	Can be overwritten on to existing key position, or key can be added to empty key position	ERASE KEY	Can be overwritten on to existing key position, or key can be added to empty key position

NOTE: CAS3 + Read through socket and OBD is supported up to ISTA/P version 1.53, if the CAS box is updated with later versions, Zed-FULL is not able to read the cas unit and will give unknown cas unit error.

Zed-FULL BMW APPLICATION

		IN CIRCUIT(EEPROM APP.) PC SOFTWARE		CAS BOX SOCKET (WITH C04 / C09 CABLE)		OBD
CAS3++	READ/WRITE	Reading and writing possible.	READ/WRITE	Read only	READ/WRITE	Read only
	KEY PROGRAMME	On to Pcf7936	KEY PROGRAMME	On to Pcf7936	KEY PROGRAMME	On to Pcf7936
	REMOTE KEY PROGRAMME	On to original remote key or IEA remote key or Chinese remote key	REMOTE KEY PROGRAMME	On to original remote key or IEA remote key or Chinese remote key. (Lost key application Need ECU ISN)	REMOTE KEY PROGRAMME	On to original remote key or IEA remote key or Chinese remote key. (Lost key application Need ECU ISN)
	ERASE KEY	Can be overwritten on to existing key position, or key can be added to empty key position	ERASE KEY	Can be overwritten on to existing key position, or key can be added to empty key position(Lost key application need ECU ISN)	ERASE KEY	Can be overwritten on to existing key position, or key can be added to empty key position(Lost key application need ECU ISN)
CAS4	READ/WRITE	Only read.	READ/WRITE	No	READ/WRITE	No
	KEY PROGRAMME	On to Pcf7936	KEY PROGRAMME	No	KEY PROGRAMME	No
	REMOTE KEY PROGRAMME	On to original remote key or IEA remote key or Chinese remote key	REMOTE KEY PROGRAMME	No	REMOTE KEY PROGRAMME	No
	ERASE KEY	No	ERASE KEY	No	ERASE KEY	No
FEM / BDC	READ/WRITE	No	READ/WRITE	No	READ/WRITE	Read / write
	KEY PROGRAMME	No	KEY PROGRAMME	No	KEY PROGRAMME	No (Only remote key)
	REMOTE KEY PROGRAMME	No	REMOTE KEY PROGRAMME	No	REMOTE KEY PROGRAMME	On to original remote key or IEA remote key or Chinese remote key.
	ERASE KEY	No	ERASE KEY	No	ERASE KEY	Can be overwritten on to existing key position, or key can be added to empty key position(Lost key application need ECU ISN)

NOTE: CAS3 ++ Read through socket and OBD is supported up to ISTAP version 1.53, if the CAS box is updated with later versions, Zed-FULL is not able to read the cas unit and will give unknown cas unit error.



MAKE	MODEL	YEAR	SYSTEM	KEY PROG.	REMOTE PROG.
BMW	7 SERIES	2001-2005	CAS1	EEPROM	EEPROM
BMW	1 SERIES	2005-2011	CAS2/CAS3/CAS3+	OBD2/SOCKET/EEPROM	OBD2/SOCKET/EEPROM
BMW	3 SERIES	2005-2011	CAS2/CAS3/CAS3+	OBD2/SOCKET/EEPROM	OBD2/SOCKET/EEPROM
BMW	5 SERIES	2005-2011	CAS2/CAS3/CAS3+	OBD2/SOCKET/EEPROM	OBD2/SOCKET/EEPROM
BMW	X6	2008-2011	CAS2/CAS3/CAS3+	OBD2/SOCKET/EEPROM	OBD2/SOCKET/EEPROM
BMW	M3	2005-2011	CAS2/CAS3/CAS3+	OBD2/SOCKET/EEPROM	OBD2/SOCKET/EEPROM
BMW	M5	2005-2011	CAS2/CAS3/CAS3+	OBD2/SOCKET/EEPROM	OBD2/SOCKET/EEPROM
BMW	Z3	2005-2011	CAS2/CAS3/CAS3+	OBD2/SOCKET/EEPROM	OBD2/SOCKET/EEPROM
BMW	Z4	2005-2011	CAS2/CAS3/CAS3+	OBD2/SOCKET/EEPROM	OBD2/SOCKET/EEPROM
BMW	Z8	2005-2011	CAS2/CAS3/CAS3+	OBD2/SOCKET/EEPROM	OBD2/SOCKET/EEPROM
BMW	1 SERIES	2012+	CAS4	NO	EEPROM
BMW	5 SERIES	2012+	CAS4	NO	EEPROM
BMW	6 SERIES(2012+	CAS4	NO	EEPROM
BMW	7 SERIES	2012+	CAS4	NO	EEPROM
BMW	X3	2012+	CAS4	NO	EEPROM
BMW	1 SERIES	2012+	FEM/BDC	NO	OBD2(WITH FEM MODULE)
BMW	2 SERIES	2012+	FEM/BDC	NO	OBD2(WITH FEM MODULE)
BMW	3 SERIES	2012+	FEM/BDC	NO	OBD2(WITH FEM MODULE)
BMW	4 SERIES	2012+	FEM/BDC	NO	OBD2(WITH FEM MODULE)
BMW	X5	2012+	FEM/BDC	NO	OBD2(WITH FEM MODULE)
BMW	X6	2012+	FEM/BDC	NO	OBD2(WITH FEM MODULE)


NOTES:

-Recently updated Cas3+ systems will not be programmed by Zed-FULL. At this time needs to downgrade CAS Unit.







-Models between 2005-2007 are mostly equipped with Cas2 (white box) unit. In this application; need a Dongle 5.

CHRYSLER – DODGE – JEEP OBD APPLICATION





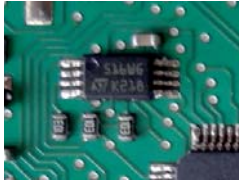

SYSTEM	PIN CODE KEY/REMOTE PROG	APP.LIST	NOTE	KEY INFO
FIAT System	4 digit pin code is extracted from OBD. Original proximity type remote key can be programmed Keys can be added, and deleted. Remotes are programmed together with the transponder and proximity functions. the proximity key must be added.	Journey 2011-2012 300/300C 2011-2012 Charger 2011-2012 Fiat Freemont		
FIAT System Type 2	4-5 digit pin code is extracted from OBD. Original proximity type remote key can be programmed Keys can be added, and deleted. Remotes are programmed together with the transponder and proximity functions. the proximity key must be added.	Jeep Grand Cherokee Durango Charger Chrysler 300 2015+ Dodge Challenger		
Fobik	4 digit pin code is extracted from OBD. Original fobik type remote key can be programmed Keys can be added, deleted. Remotes are programmed automatically after a successful key programming.	300/300C 2008 Caravan 2008-2009 Charger 2008 Commander 2008 Grand Cherokee 2008-2010 Magnum 2008 Town&Country 2008-2009		
Fobik Type A	4 digit pin code is extracted from OBD. Original fobik type remote key can be programmed Keys can be added, deleted. Remotes are programmed automatically after a successful key programming.	Caravan 2010-2012 Town&Country 2010-2012		
Fobik Type B	4 digit pin code is extracted from OBD. Original fobik type remote key can be programmed Keys can be added, deleted. Remotes are programmed automatically after a successful key programming.	Journey 2009-2010 Caravan 2010-2012 300/300C 2009-2010 Challenger 2009-2012(No Prox.) Challenger 2009-2012(keyless go) Charger 2009-2010 Commander 2009-2010 Magnum 2009-2010 Ram P/U 1500 2009-2012(No prox) Town&Country 2010-2012 Town&Country "Limited" 2011-2012(PEM)	If the start stop button of a Pem system can be removed and converted to fobik system, this car can be programmed with Fobik type B, however IF the car is programmed from proximity menu, both keys and proximity functions will work.	
Pem system	Fobik shaped proximity key programming. Removable start stop button.	Durango 2011-2012(Keyless go) (PEM) Grand Cherokee 2011-2012(Keyless go)(PEM) Town&Country "Limited" 2011-2012(PEM)	Keyless Go – FObIK Key Only Keyless Go – FObIK Key Only with optinal keyless go	
DODGE RAM/DART / Chrysler 200 / Cherokee	Keys can be added, and deleted. Pin code extraction is not available via OBD	Dodge Ram 2014 Dodge Dart 2014 Chrysler 200 2014+ Jeep Cherokee 2014+		
CAN 1	There is no need to extract pin code to programme a blank key. Original remote or Pcf7936(Chrysler) can be programmed. Keys can be added and deleted. Remotes are programmed automatically after a successful key programming.	300/300C 05-mid06 Charger 2006 Commander 2006 Dakota 2005-2006 Grand Cherokee 2005-2006 Magnum 2005-2006		
CAN 2	There is no need to extract pin code to programme a blank key. Original remote or Pcf7936(Chrysler) can be programmed. Keys can be added and deleted. Remotes are programmed automatically after a successful key programming.	Chrysler 200 2011-2012 Avenger 2008-2012 Pt Cruiser 2006-2010 Ram Pick Up 1500 2006-2008 Ram P/U 2500/3500 2009-2011 Sebring 4Dr Hardtop 2007-2011 Sebring Convertible 2007-2011		




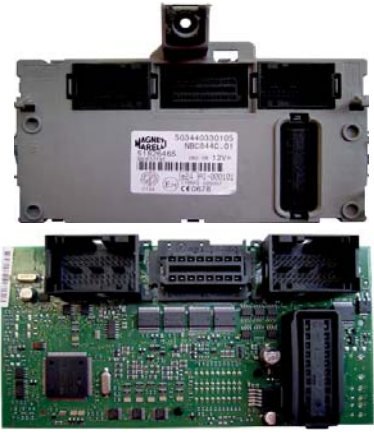





CAN 3	Pin code is extracted from OBD. It is a 4 digit pin code. Chip: 46 PCF7941 The keys can be add and delete.	Caliber 2007-2012 Compass 2007-2012 Wrangler&Rubicon 2007-2012 Liberty 2008-2012 Nitro 2007-2012 Patriot 2007-2012		
CAN 4	Pin code is extracted from OBD. It is a 4 digit pin code. Chip: 46 PCF7941 The keys can be added and delete.	Aspen 2007-2009 Commander 2007 Dakota 2007-2011 Durango 2007-2009 Grand Cherokee 2007		
CAN 5	Pin code is extracted from OBD. It is a 4 digit pin code. Chip: 46 PCF7941 The keys can be added and delete.	300/300C mid 06 – 07 charger mid 06 – 07 Magnum mid 06-07		
Pacifika system	This package is not available	Caravan 2004-2007 Liberty 2005-2007 Pacifika 2004-2007 Town&Country 2004-2007 Voyager 2004-2005		
Type1	This package is not available yet	Breeze 1999-2000 Cherokee 1998-2001 Cherokee 1999-2000 Wrangler&Rubicon 1998-2000 Stratus 4Dr HTP 1999-2000 Sebring Convertible 1998-2000		
Type2	Keys can be added, and deleted. Pin code extraction is not available via OBD	300M 1999-2000 300M 2001-2004 Caravan 2001-2003 Concorde 1998-2000 Concorde 2001-2004 Dakota 2001-2004 Durango 2001-2003 Grand Cherokee 1999-2000 grand Cherokee 2001-2004 Intrepid 1998-2000 Intrepid 2001-2004 Liberty 2002-2004 LHS 1999-2000 LHS 2001 Neon 2000 Neon 2001-2005 Pt Cruiser 2001-2005 Ram Pick Up 1500 2002-2005 Sebring 4Dr Hardtop 2001-2006 Sebring Convertible 2001-2006 Stratus 4Dr HTP 2001-2006 Town&Country 2001-2003 Voyager 2001-2003 Wrangler&Rubicon 2001-2006		

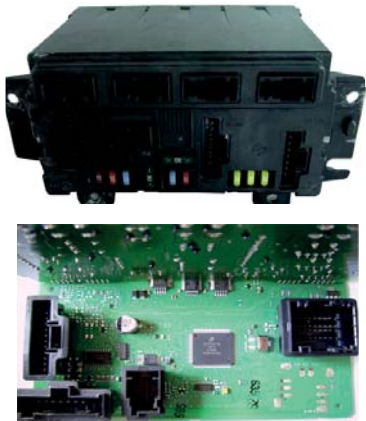


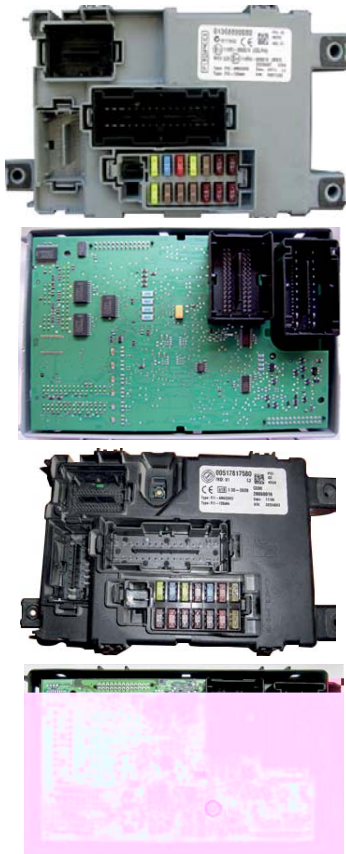


DAEWOO – CHEVROLET - HOLDEN OBD APPLICATION



APPLICATION	DESCRIPTION	APP.LIST	NOTES
DAEWOO-CHEVROLET KLINE KEY PROGRAMMING PACK OBD-DAE-CHE01	<p style="text-align: center;">K-Line key programming</p> <p style="text-align: center;">4D-60: LACETTI-EPICA-OPTRA-A Remote key or transponder can be programmed. Transponder should be blank.</p> <p style="text-align: center;">48: AVEO-KALOS-MATIZ-SPARK: Remote key or transponder can be programmed. Transponder should be blank.</p> <p style="text-align: center;">8E: SPARK 2010+ Need a dealer key to program. Produced 8E chip shouldn't be used!</p>	<p style="text-align: center;">AVEO 2002-2011 KALOS 2002-2011 LACETTI 2002-2008 MATIZ 2000-2008 SPARK 2000-2013 EPICA 2006-2011 TOSCA 2006-2011 LOVA 2002-2011 GENTRA 2002-2011 HOLDEN BARINA 2005- 2011 HOLDEN VIVA 2005-2009 SUZUKI RENO 2002-2008 SUZUKI FORENZA 2004- 2008 BUICK EXCELLE 2004- 2008</p>	
DAEWOO-CHEVROLET KLINE REMOTE PROGRAMMING PACK OBD-DAE-CHE02	<p>K-Line Remote Programming for Vehicles which use 48 or 4D chip</p>	<p style="text-align: center;">AVEO 2002-2011 KALOS 2002-2011 LACETTI 2002-2008 MATIZ 2000-2008 SPARK 2000-2013 LOVA 2002-2011 GENTRA 2002-2011 HOLDEN BARINA 2005- 2011 HOLDEN VIVA 2005-2009 SUZUKI RENO 2002-2008 SUZUKI FORENZA 2004- 2008 BUICK EXCELLE 2004- 2008</p>	
DAEWOO-CHEVROLET CAN1 KEY PROGRAMMING PACK OBD-OPE-VAU01	<p>Can-Bus Key Programming for Vehicles which use 46 chip Remote key or transponder can be programmed. Transponder should be produced.</p>	<p>CHEVROLET CAPTIVA OPEL ANTARA HOLDEN UTE 2007+ COMMODORE VE 2006+</p>	
DAEWOO-CHEVROLET CAN1 REMOTE PROGRAMMING PACK OBD-OPE-VAU12	<p>Remote Programming for Can-Bus vehicles</p>	<p>CHEVROLET CAPTIVA OPEL ANTARA HOLDEN UTE 2007+ COMMODORE VE 2006+</p>	
DAEWOO-CHEVROLET CAN2 KEY PROGRAMMING PACK OBD-OPE-VAU11	<p>Key Programming for Cruze Original Remote key should be used. Remotes are programmed automatically After key programming</p>	<p style="text-align: center;">CRUZE 2008+ CAMARO 2011+ IMPALA 2011+ MALIBU 2011+ SILVERADO 2011+ SONIC 2011+</p> <p style="text-align: center;">OPEL: ASTRA J 2009+ INSIGNIA 2009+ MOKKA 2013+</p>	
DAEWOO-CHEVROLET CAN1 PINCODE READING PACK OBD-HOL08	<p>Pincode reading for Cruze</p>	<p>CRUZE 2008+</p>	

FIAT - ALFA ROMEO - LANCIA - IVECO OBD APPLICATION

Type 1 - Magneti Marelli (9S12 - 48 System)		MCU Type	Original Key/Remote Key
		<p>MC9S12DP256-MC9S12DG256 (1K79X-0L01Y-4L91N), QFP, 112pins</p> <p>MC68HC912DT128-MC68HC912DG128 (0L05H-3K91D), QFP, 112pins</p> <div style="text-align: center;">  </div>	<p>Transponder : Megamos 48 Remote : HCS412</p> <div style="text-align: center;">  </div>
Zed-FULL OBD	Zed-FULL Eeprom Application	Zed-FULL Remote	Application List
# Pin code extraction # Transponder precoding # Add key or erase and programme key # Remote programming on EMULATOR 1 or EMULATOR 2.	# Pin code extraction using the Pc software and precoding the transponder module number 13 or 14 # Programming megamos 48 with image file. # Programming TS48 without creating image file and modifying Eeprom data.	# Cloning 2 or 3 button remotes on to EMULATOR 2	Fiat: 147, GT, Stilo, Doblo 2000-2010, Albea, Palio, Marea, Idea. Lancia: Thesis, Ypsilon, Quattroporte, Granturismo, Musa
Type 2 - Magneti Marelli (95160/95320 - 48 System)		Eeprom Type	Original Key/Remote Key
		<p>95C160(9516WP), TSSOP, 8pin 96C320(9532WP), TSSOP, 8pin</p> <div style="text-align: center;">  </div>	<p>Transponder : Megamos 48 Remote : HCS412</p> <div style="text-align: center;">  </div>
Zed-FULL OBD	Zed-FULL Eeprom Application	Zed-FULL Remote	Application List
# Pin code extraction # Transponder precoding # Add key or erase and programme key # Remote programming on EMULATOR 2.	# Pin code extraction using the Pc software and precoding the transponder module number 17 or 18 # Programming meg. 48 with image file. # Programming TS48 without creating image file and modifying Eeprom data.	# Cloning 2 or 3 button remotes on to EMULATOR 2	Bravo(2007-), Ducato(2006-), Linea(2007-), Stilo(2007-), Punto(2007-), Jumper(2006-), Relay(2006-), Peugeot: Boxer(2006-), Ypsilon(2007-), Daily(2007-), Eurocargo(2007-)

Type 3 - Delphi (93C66B - 48 System)		Eeprom Type	Original Key/Remote Key
		93C66B, SOIC, 8pin 	Transponder : Megamos 48 Remote : HCS412 
Zed-FULL OBD	Zed-FULL Eeprom Application	Zed-FULL Remote	Application List
# Pin code extraction # Transponder precoding # Add key or erase and programme key # Remote programming on EMULATOR 1.	# Pin code extraction using the Pc software and precoding the transponder module number 24 # Programming meg. 48 with image file. # Programming TS48 without creating image file and modifying Eeprom data.	# Cloning 1 button remotes on to EMULATOR 1.	Fiat : Albea, Doblo,2000-2010 Punto, Siena, Strada Palio
Type 4 - Magneti Marelli (95C160 - 46 System)		Eeprom Type	Original Key/Remote Key
		95C160(9516WP), TSSOP, 8pin 	Philips 46 (PCF7936/46) 
Zed-FULL OBD	Zed-FULL Eeprom Application	Zed-FULL Remote	Application List
# Pin code extraction # Transponder precoding # Add key or erase and programme key # Remote key programming on FIR104.	# Pin code extraction using the Pc software and precoding the transponder module number 155 # Programming FIR104 (PCF7946/47) remote key with image file	# Cloning 3 button remotes on to EMULATOR 3. # Pc software and internet connection is needed.	Bravo, Ducato,Boxer Relay Stilo, Punto, Ypsilon, Musa
Type 5 - Magneti Marelli (95C640 - 46 System)		Eeprom Type	Original Key/Remote Key
		95C640(S64S), TSSOP, 8pin 	Philips 46 (PCF7936/46) 
Zed-FULL OBD	Zed-FULL Eeprom Application	Zed-FULL Remote	Application List
# Pin code extraction # Transponder precoding # Erase and programme key # Remote key programming On FIR104	No application yet	# Cloning 3 button remotes on to EMULATOR 3. # Pc software and internet connection is needed.	Fiat : 500L , Ducato (2012+), Iveco : Daily (2012+) Citroen : Jumper (2012+), Relay(2012+) Peugeot : Boxer (2012+) Alfa Romeo : Giulietta 2013+

Type 6 - Siemens (9S12 - 46 System)		MCU Type	Original Key/Remote Key
		MC9S12DG128(1L40K), QFP, 112pin 	Philips 46 (PCF7936/41) 
Zed-FULL OBD	Zed-FULL Eeprom Application	Zed-FULL Remote	Application List
# Pin code extraction # Transponder precoding # Add key or erase and programme key # Remote key programming On FIR107(Emulator 3)	# Pin code extraction using the Pc software Module 105 # Precoding Philips 46 (PCF7936) transponder	No application yet	FIAT: PANDA
Type 7- Delphi (93C86 - 46 System)		Eeprom Type	Original Key/Remote Key
		93C86(28000766), SOIC, 8pin 	Philips 46 (PCF7936/46) 
Zed-FULL OBD	Zed-FULL Eeprom Application	Zed-FULL Remote	Application List
# Pin code extraction # Precoding transponder and remote on to FIR102 and FIR103 (PCF7946/47) # Add key or erase and programme key	# Pin code extraction using the Pc software and precoding the transponder module number 81 # Precoding transponder and remote on to FIR102 and FIR103 (PCF7946/47)	# Cloning 3 button remotes on to EMULATOR 3. # Pc software and internet connection is needed.	Fiat: Doblo, Grande Punto, 500, Fiorino, Qubo, Panda - Peugeot: Bipper - Citroen: Nemo Alfa Romeo: Mito - Lancia: Ypsilon Ford: KA - Opel: Combo D




Type 8 - Magneti Marelli (95320 - 46 System)		Eeprom Type	Original Key/Remote Key
		95320, TSSOP, 8pin	Philips 46 (PCF7936/46) 
Zed-FULL OBD	Zed-FULL Eeprom Application	Zed-FULL Remote	Application List
# Pin code extraction # Transponder precoding # Erase and programme key # Remote key programming On FIR104	No application yet	# Cloning 3 button remotes on to EMULATOR 3. # Pc software and internet connection is needed.	Alfa Romeo: Giulietta 2010-2012





FORD EUROPE OBD APPLICATION

APPLICATION	DESCRIPTION	APP.LIST	NOTES
FORD-MAZDA EUR- OBD-CAN1 KEY PROGRAMMING PACK OBD-FOR-EUR01	<p>Key Programming for cars with Can-Bus System 1 Transponder to be used is 4D-63 (Do not use 80 bit 6F Transponder!) Remotes are on board programmed. Incode-Outcode Bypass.</p> <p>You can do modul initialization via OBD-FOR-EUR21 package.</p>	FIESTA 2002-2007 FUSION 2002-2012 KA 2002-2007 MAZDA2 2002-2007 MAZDA6 2002-2007	
FORD-MAZDA EUR- OBD-CAN2 KEY PROGRAMMING PACK OBD-FOR-EUR02	<p>Key Programming for cars with Can-Bus System 2 Except Keyless Models Transponder to be used is 4D-63 (Do not use 80 bit 6F Transponder!) Remotes are on board programmed. Incode-Outcode Bypass.</p> <p>You can do modul initialization via OBD-FOR-EUR22 package.</p>	FOCUS 2005-2011 CONNECT 2007-2012 C-MAX 2005-2010 MAZDA5 2005-2010 MAZDA3 2004-2009 MAZDA CX-7 2007-2009 MAZDA CX-9 2007-2009	
FORD-MAZDA EUR- OBD-CAN3 KEY PROGRAMMING PACK OBD-FOR-EUR03	<p>Key Programming for cars with Can-Bus System 3 Except Keyless Models Transponder to be used is 4D-63 (Do not use 80 bit 6F Transponder!) Remotes are on board programmed. Remotes of TRANSIT cars with bluehead-key will function After transponder programming. Incode-Outcode Bypass.</p> <p>You can do modul initialization via OBD-FOR-EUR23 package.</p>	TRANSIT 2007-2012 MONDEO 2007-2010 FIESTA 2009-2012 S-MAX 2007-2011 GALAXY 2007-2011	
FORD-MAZDA EUR- OBD-CAN4 KEY PROGRAMMING PACK OBD-FOR-EUR04	<p>Key Programming for cars with Can-Bus System 4 These vehicles equipped with Keyless-Go System. Transponder to be used is 4D-63 DST 80 6F (Do not use other 4D-63) Incode-Outcode Bypass</p>	FOCUS 2005-2011 KUGA 2008-2012	
FORD-MAZDA EUR- OBD-CAN5 KEY PROGRAMMING PACK OBD-FOR-EUR05	<p>Key Programming for cars with Can-Bus System 5 Except Keyless Models Transponder to be used is 4D-63 (Do not use 80 bit 6F Transponder!) Remotes are on board programmed. Incode-Outcode Bypass</p>	MAZDA2 2007-2011 MAZDA2 2014+ MAZDA3 2009-2011 MAZDA3 2013+ MAZDA CX-3 MAZDA CX-5 MAZDA CX-7 2010+ MAZDA CX-9 2010+	
FORD-MAZDA EUR- OBD-PWM1 PCM KEY PROGRAMMING PACK OBD-FOR-EUR07	<p>Key Programming for cars with Pwm System 1 Transponder to be used is 4D-60 (Do not use 80 bit 6F Transponder!) Remotes are on board programmed. Incode-Outcode Bypass</p>	FIESTA 1999-2001 FOCUS 1998-2004 MONDEO 1998-2006 TRANSIT 2000-2006 CONNECT 2000-2007	





FORD EUROPE OBD APPLICATION

APPLICATION	DESCRIPTION	APP.LIST	NOTES
FORD-MAZDA EUR- OBD-PWM1 PCM KEY PROGRAMMING PACK OBD-FOR- EUR08	Key Programming for cars with Pwm System 2 Transponder to be used is 4C Remotes are on board programmed. Incode-Outcode Bypass	MONDEO 97	
FORD FIESTA 2013+ ADD KEY PACK OBD-FOR-EUR09	Adding key package for Ford New Incode-Outcode System Incode calculated automatically by device. No need to external source. Transponder type: 4D-63 DST 80 6F On board remote programming. A few models of B-MAX not supported	Fiesta 2013+ B-MAX 2012+ Kuga 2013+ Tourneo Courier 2013+	
FORD FIESTA 2013+ DELETE KEYS PACK OBD-FOR-EUR10	Delete key package for Ford New Incode-Outcode System Incode calculated automatically by device. No need to external source. Transponder type: 4D-63 DST 80 6F On board remote programming.	Fiesta 2013+ B-MAX 2012+ Kuga 2013+ Tourneo Courier 2013+	
FORD FOCUS 2011+ ADD KEY PACK OBD-FOR-EUR11	Adding key package for FORD FOCUS and C-MAX After 2011. Incode calculated automatically by device. No need to external source. Transponder type: 4D-63 DST 80 6F Remotes are programmed together With key automatically.	2011-2014 FOCUS 2011-2014 C-MAX	
FORD FOCUS 2011 + ERASE KEYS PACK OBD-FOR-EUR12	Adding key package for FORD FOCUS and C-MAX After 2011. Incode calculated automatically by device. No need to external source. Transponder type: 4D-63 DST 80 6F Remotes are programmed together With key automatically.	2011-2014 FOCUS 2011-2014 C-MAX	
FORD PROXIMITY- KEYLESS TYPE2 KEY PROGRAMMING PACK OBD-FOR-EUR13	KEY PROGRAMMING PACKAGE FOR MONDEO FIESTA AND C-MAX PROXIMITY-KEYLESS VEHICLES	MONDEO 2007-2010 C-MAX 2005-2010 FIESTA 09-12	
MAZDA RX-8 KEY PROGRAMMING PACK OBD-FOR-EUR14	KEY PROGRAMMING PACKAGE FOR MAZDA RX-8 VEHICLES. TRANSPONDER TO BE USED : 4D-63 ON-BOARD REMOTE PROGRAMMING	MAZDA RX8	

FORD EUROPE OBD APPLICATION



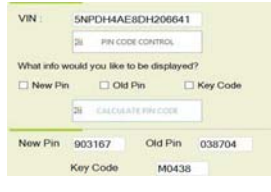
APPLICATION	DESCRIPTION	APP.LIST	NOTES
FORD RANGER AND MAZDA BT-50 2012+ KEY PROGRAMMING PROCEDURE PACK OBD-FOR-EUR15	FORD RANGER AND MAZDA BT-50 2012+ KEY PROGRAMMING PROCEDURE	RANGER 2012+ BT-50 2012+	
MAZDA6 2008+ KEY PROGRAMMING PACK OBD-FOR-EUR16	KEY PROGRAMMING PACKAGE FOR 2008+ MAZDA6 TRANSPONDER TO BE USED : 4D-63; REMOTE PROGRAMMING : ONBOARD	MAZDA6 2007-2012 MAZDA6 2012+	
FORD KUGA KEYLESS-PROXIMITY 2013+ ADD KEY PACK OBD-FOR-EUR17 FORD KUGA KEYLESS-PROXIMITY 2013+ ERASE KEYS PACK OBD-FOR-EUR18	Add key and erase keys package for FORD KUGA KEYLESS after 2013. Incode calculated automatically by device. No need to external source. Proximity Key should be used: 4D-63 DST 80 6F	KUGA KEYLESS 2013+ FOCUS KEYLESS 2011+	
FORD MONDEO 2011+ ADD KEY PACK OBD-FOR-EUR19 FORD MONDEO 2011 + ERASE KEYS PACK OBD-FOR-EUR20	Add key and erase keys package for FORD MONDEO between 2011-2014 years. Incode calculated automatically by device. No need to external source. Transponder type: 4D-63 6F DST 80 Remotes are programmed together with key automatically.	MONDEO 2011-2014	
FORD-MAZDA EUR-OBD-CAN1 MODUL INIT PACK OBD-FOR-EUR21	IF YOU HAVE A ONE WORKING KEY AND THIS KEY DOESN'T WORK THE ENGINE"MODULE INTRODUCE"WITH OTHER UNITS MAPPING. SWITCHES WORK INCOME STATUS.	FIESTA 2002-2007 FUSION; KA 2002-2007 MAZDA2 2002-2007 MAZDA6 2002-2007 ECOSPORT 2004-2012	
FORD-MAZDA EUR-OBD-CAN2 MODUL INIT PACK OBD-FOR-EUR22	IF YOU HAVE A ONE WORKING KEY AND THIS KEY DOESN'T WORK THE ENGINE"MODULE INTRODUCE"WITH OTHER UNITS MAPPING. SWITCHES WORK INCOME STATUS.	FOCUS 2005-2011 CONNECT 2007-2012 C-MAX 2005-2010 MAZDA5 2005-2010 MAZDA3 2004-2009 MAZDA CX-7 2007-2009; MAZDA CX-9 2007-2009	
FORD-MAZDA EUR-OBD-CAN3 MODUL INIT PACK OBD-FOR-EUR23	IF YOU HAVE A ONE WORKING KEY AND THIS KEY DOESN'T WORK THE ENGINE"MODULE INTRODUCE"WITH OTHER UNITS MAPPING. SWITCHES WORK INCOME STATUS.	TRANSIT 2007-2012 MONDEO 2007-2011 FIESTA 2009-2011 S-MAX 2007-2011 GALAXY 2007-2011	

FORD EUROPE OBD APPLICATION



APPLICATION	DESCRIPTION	APP.LIST	NOTES
<p>FORD FOCUS 2014+ ADD KEY PACK OBD-FOR-EUR24</p> <p>FORD FOCUS 2014+ ERASE KEYS PACK OBD-FOR-EUR25</p>	<p>Add key package for Ford Focus vehicles which have F1FT BCM number.</p> <p>Delete keys package for Ford Focus vehicles which have F1FT BCM number.</p>	<p>FOCUS 2014+</p>	
<p>FORD CUSTOM 12-14 ADD KEY PACK OBD-FOR-EUR26</p> <p>FORD CUSTOM 12-14 ERASE KEYS PACK OBD-FOR-EUR27</p>	<p>Add key package for Ford Transit Custom 2012-2014 vehicles which have BK2T BCM number.</p> <p>Delete keys package for Ford Transit Custom 2012-2014 vehicles which have BK2T BCM number.</p>	<p>CUSTOM 2012-2014</p>	
<p>MAZDA 13+ , PROX 13+ ADD KEY PACK OBD-FOR-EUR28</p> <p>MAZDA 13+ , PROX 13+ ERASE KEYS PACK OBD-FOR-EUR29</p>	<p>Add key package for MAZDA 13+ , PROX 13+ vehicles</p> <p>Erase keys package for MAZDA 13+ , PROX 13+ vehicles</p>	<p>MAZDA3 (13+ , PROX 13+) MAZDA2 (14+ , PROX 14+) MAZDA6 (12+ , PROX 12+) MAZDA CX3 MAZDA CX5</p>	
<p>MAZDA CX-7 KEYLESS ADD - ERASE KEYS PACK OBD-FOR-EUR30</p>	<p>Add key and erase keys package for MAZDA CX-7 KEYLESS vehicles</p>	<p>MAZDA CX-7</p>	

HYUNDA-KIA OBd APPLICATION

HYUNDAI-KIA PINCODE GENERAL

Via Chasis	All vehicles up to 06/2007. Except VIN numbers which starts with '0'. Standart pack free in Zed-FULL. This application is done from the device screen, no need to use PC or internet connection.		
Via Key (TK60)	All vehicles which has 46 chip. Requires a working key to calculate the pincode. Calculation is done from PC Software. Requires PIN-OFF02 pack in Zed-FULL.		
Online with VIN	Via internet connection. It is not a stabile solution. All VIN numbers are not supported. Standart pack, for each pincode request credit system will be used.Requires PC Software and internet connection. Old Pin, New Pin, Key code will be shown on PC software as long as we have this info in our database.		

HYUNDAI-KIA PINCODE VIA OBd






HYUNDAI-KIA CAN PINCODE ALLTYPE PACK OBD-HYU-KIA11	Pincode extraction for Diesel Vehicles CRDI 1.5 , 1.6 Diesel Motors Tested 2.0 , 2.5 Diesel Motors not tested But may support.	ACCENT ERA 2006-2012 GETZ 2007-2012 RIO 2006-2011 CERATO(2004-2012)	
	Pincode extraction for Gasoline Engine Vehicles. 1.4 Gasoline Motors Tested 1.6 , 2.0 Gasoline Motors not tested But may support.	ACCENT ERA 2006-2012 ELANTRA 2007-2012 GETZ 2007-2012 RIO 2006-2011 i20 2007-2011	
	Pincode extraction for Accent Blue, Elantra, i10 Diesel&Gasoline Engine Vehicles. 1.4 , 1.6 Gasoline&Diesel Motors Tested 1.8 , 2.0 Gasoline Motors not tested But may support.	ACCENT BLUE 2010+ ELANTRA 2010+ i10 2008+	

HYUNDAI-KIA KEY PROGRAMMING

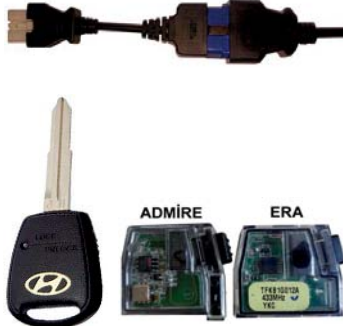

KLINE KEY PROGRAMMING PACK OBD-HYU-KIA02	Key programming for K-Line vehicles From 2000 TO 2010. 46 Transponder/Remote key can be programmed. Pincode can be calculated from last 6 digits of VIN for vehicles Up to 06/2007.	ACCENT ADMIRE(2000-2010) ATOS(2004-2010) GETZ(2003-2010) STAREX(2003-2007) ELANTRA(2001-2006) MATRIX(2001-2010) SONATA(2005-2010) TUCSON(2005-2010) SANTAFE(2006-2010) TERRACAN DIESEL(2006-2011) PICANTO(2004-2011) CARENS(2002-2007) RIO(2000-2005)	
CAN KEY PROGRAMMING PACK OBD-HYU-KIA01	Key programming for 2007-2012 vehicles. 46 Transponder/Remote key Can be programmed. Pincode can be calculated from working key using TK60 from PC software or extracted through OBD Socket.	ACCENT ERA 2006-2012 GETZ 2007-2012 RIO 2006-2011 ACCENT BLUE 2010+ ELANTRA 2010+ i10 2007-2011 i20 2007-2011 i30 2007-2011 STAREX(2008+) SANTAFE (2010-2012) CARENS(2007-2012) GENESIS H1 CERATO(2004-2012) FORTE(2008-2012) VENGA(2004-2012) RIO(2006-2011)	

HYUNDA-KIA OBD APPLICATION





HYUNDAI-KIA KEY PROGRAMMING

<p><i>KLINE KEY PROGRAMMING-2</i></p> <p><i>PACK</i> <i>OBD-HYU-KIA03</i></p>	<p>Key programming for 2012 + vehicles 4D-60 DST 80 6F Transponder/Remote key Can be programmed</p>	<p>i30(2012+) i20(2012+) RIO(2012+) CARENS(2013+) CEED(2013+) CERATO(2013+) FORTE(2013+)</p>	
<p><i>KEYLESS PROGRAMMING</i></p> <p><i>PACK</i> <i>OBD-HYU-KIA09</i></p>	<p>Key programming for Keyless (Start/Stop), Proximity vehicles. 4D-60 DST + (PLUS) 6F transponder / Remote key can be programmed.</p>	<p>IX35 (2010-2014) SPORTAGE (2010-2014)</p>	
<p><i>SMART KEY GENESIS PROGRAMMING</i></p> <p><i>PACK</i> <i>OBD-HYU-KIA10</i></p>	<p>Smart key programming. Type pin code manually. Remote programming automatically.</p>	<p>GENESIS (2010-2013) OPTIMA (2010-2013)</p>	
<p><i>KEYLESS-PROXIMITY2</i></p> <p><i>PACK</i> <i>OBD-HYU-KIA12</i></p>	<p>2014+ Non-slot system Original Proximity-key should be used</p>	<p>IX35 (2014+)</p>	
<p><i>KEYLESS-PROXIMITY4</i></p> <p><i>PACK</i> <i>OBD-HYU-KIA13</i></p>	<p>Sportage With slot Original Proximity-key should be used</p>	<p>SPORTAGE (2012+)</p>	


HYUNDAI-KIA REMOTE PROGRAMMING

<p><i>PWM REMOTE PROGRAMMING</i></p> <p><i>PACK</i> <i>OBD-HYU-KIA05</i></p>	<p>Remote Programming for Old type vehicles. Single Button Remote should be used. There are two types of single button remotes. One them is for "Era" other one is for "Admire". 10 pin external Hyundai socket should be plugged to OBD-II socket for Admire remote programming. There is a cable to use with Zed-FULL during this remote programming procedure.</p>	<p>ACCENT 2000-2010 GETZ 2002-2010 MATRIX STAREX ETC..</p>	
<p><i>KLINE REMOTE PROGRAMMING</i></p> <p><i>PACK</i> <i>OBD-HYU-KIA04</i></p>	<p>Remote programming for new type vehicles. 3 or 2 button remote Should be used.</p>	<p>RIO 2012+ ACCENT BLUE 2010+ ELANTRA 2010+ i10 2007+ i20 2007+ i30 2007+</p>	

MITSUBISHI OBD APPLICATION

VEHICLE	PROCESS	DESCRIPTION	PACK	KEY TYPE	
LANCER	KEY PROGRAMMING	IN KEY PROGRAMMING MODE ALL KEYS ARE DELETED AND NEW KEYS ARE ADDED. EACH TIME MORE THAN 1 KEY CAN BE PROGRAMMED. A BLANK CIPHER-BIPHASE PCF7936 SHOULD BE USED.	MITSUBISHI LANCER KEY PROGRAMMING. OBD-MIT01		
	REMOTE PROGRAMMING	WHEN PROGRAMMING A NEW REMOTE ALL EXISTING REMOTES ARE DELETED FIRST. WHILE THE VEHICLE IS IN REMOTE PROGRAMMING MODE ALL REMOTES SHOULD BE PROGRAMMED IN 30 SECONDS. WHILE PROGRAMMING A REMOTE BOTH BUTTONS SHOULD BE PRESSED, RELEASED THEN UNLOCK BUTTON SHOULD BE PRESSED AND RELEASED.	MITSUBISHI OUTLANDER REMOTE PROGRAMMING. OBD-MIT02		
OUTLANDER, ASX	KEY PROGRAMMING	IN KEY PROGRAMMING MODE ALL KEYS ARE DELETED AND NEW KEYS ARE ADDED. EACH TIME MORE THAN 1 KEY CAN BE PROGRAMMED. A BLANK CIPHER-BIPHASE PCF7936 SHOULD BE USED.	MITSUBISHI OUTLANDER KEY PROGRAMMING. OBD-MIT03 OBD-MIT04		
	REMOTE PROGRAMMING	WHEN PROGRAMMING A NEW REMOTE ALL EXISTING REMOTES ARE DELETED FIRST. WHILE THE VEHICLE IS IN REMOTE PROGRAMMING MODE ALL REMOTES SHOULD BE PROGRAMMED IN 30 SECONDS. WHILE PROGRAMMING A REMOTE BOTH BUTTONS SHOULD BE PRESSED, RELEASED THEN UNLOCK BUTTON SHOULD BE PRESSED AND RELEASED.	MITSUBISHI OUTLANDER REMOTE PROGRAMMING. OBD-MIT05		
L200, TRITON (-2010)	KEY PROGRAMMING	IN KEY PROGRAMMING MODE ALL KEYS ARE DELETED AND NEW KEYS ARE ADDED. EACH TIME MORE THAN 1 KEY CAN BE PROGRAMMED. A BLANK CIPHER-BIPHASE PCF7936 SHOULD BE USED.	MITSUBISHI TRITON KEY PROGRAMMING. BEFORE 2010 OBD-MIT06 OBD-MIT07		
	REMOTE PROGRAMMING	WHEN PROGRAMMING A NEW REMOTE ALL EXISTING REMOTES ARE DELETED FIRST. WHILE THE VEHICLE IS IN REMOTE PROGRAMMING MODE ALL REMOTES SHOULD BE PROGRAMMED IN 30 SECONDS. WHILE PROGRAMMING A REMOTE BOTH BUTTONS SHOULD BE PRESSED, RELEASED THEN UNLOCK BUTTON SHOULD BE PRESSED AND RELEASED.	MITSUBISHI TRITON-L200 REMOTE KEY PROGRAMMING. OBD-MIT08		
L200, TRITON (2010+)	KEY PROGRAMMING	IN KEY PROGRAMMING MODE ALL KEYS ARE DELETED AND NEW KEYS ARE ADDED. EACH TIME MORE THAN 1 KEY CAN BE PROGRAMMED. A BLANK CIPHER-BIPHASE PCF7936 SHOULD BE USED.	MITSUBISHI TRITON-L200 KEY PROGRAMMING. AFTER 2010 OBD-MIT09		
	REMOTE PROGRAMMING	WHEN PROGRAMMING A NEW REMOTE ALL EXISTING REMOTES ARE DELETED FIRST. WHILE THE VEHICLE IS IN REMOTE PROGRAMMING MODE ALL REMOTES SHOULD BE PROGRAMMED IN 30 SECONDS. WHILE PROGRAMMING A REMOTE BOTH BUTTONS SHOULD BE PRESSED, RELEASED THEN UNLOCK BUTTON SHOULD BE PRESSED AND RELEASED.	MITSUBISHI TRITON-L200 REMOTE KEY PROGRAMMING. OBD-MIT10		
380	KEY PROGRAMMING	IN KEY PROGRAMMING MODE ALL KEYS ARE DELETED AND NEW KEYS ARE ADDED. EACH TIME MORE THAN 1 KEY CAN BE PROGRAMMED. A BLANK CIPHER-BIPHASE PCF7936 SHOULD BE USED.	MITSUBISHI 380 KEY PROGRAMMING. OBD-MIT11 OBD-MIT12		
COLT	KEY /REMOTE PROGRAMMING	IN KEY PROGRAMMING MODE ALL KEYS ARE DELETED AND NEW KEYS ARE ADDED. EACH TIME MORE THAN 1 KEY CAN BE PROGRAMMED. A BLANK CIPHER-BIPHASE PCF7936 SHOULD BE USED. REMOTES ARE AUTOMATICALLY PROGRAMMED AFTER A SUCCESSFUL KEY PROGRAMMING.	MITSUBISHI COLT KEY PROGRAMMING. OBD-MIT13		
OUTLANDER, ASX PROXIMITY	PROXIMITY KEY PROGRAMMING	IN PROX. KEY PROGRAMMING MODE ALL KEYS ARE DELETED AND NEW KEYS ARE ADDED. EACH TIME MORE THAN 1 PROX. KEY CAN BE PROGRAMMED. IF ALL KEYS ARE LOST, NEW PROX. KEYS CAN NOT BE PROGRAMMED, THERE SHOULD AT LEAST 1 WORKING KEY NEEDED.	MITSUBISHI PROXIMITY KEY PROGRAMMING. OBD-MIT14		
LANCER, PAJERO, CHALLENGER, MAGNA, L200, TRITON (K line system)	KEY PROGRAMMING	IN KEY PROGRAMMING MODE ALL KEYS ARE DELETED AND NEW KEYS ARE ADDED. EACH TIME MORE THAN 1 KEY CAN BE PROGRAMMED. SHOULD BE USED.	K LINE KEY PROGRAMMING OBD-MIT15		

MITSUBISHI OBD APPLICATION

VEHICLE	PROCESS	DESCRIPTION	PACK	KEY TYPE
PAJERO 2007+ (CAN System)	KEY PROGRAMMING		MITSUBISHI PAJERO CAN KEY PROGRAMING OBD-MIT16	
LANCER WAGON AND SPORTBACK	KEY PROGRAMMING		MITSUBISHI LANCER WAGON KEY PROGRAMING OBD-MIT17	
LANCER PROXIMITY KEY	PROXIMITY KEY PROGRAMMING	Transponder and prox programing for lancer cars. You need remove plastic head from ignition. And replace blade key to turn ignition with key for transponder programing. After transponder programing you can program prox to push remote button to complete procedur	MITSUBISHI LANCER KEYLESS KEY PROGRAMING. OBD-MIT18	
MIRAGE (PROXIMITY KEY)	PROXIMITY KEY PROGRAMMING	Transponder and prox will be programing in the same time. If no any working key Zed Full will force ignition on you should insert key to slot at middle console	MITSUBISHI NEW MIRAGE KEYLESS KEY PROGRAMING. OBD-MIT19	
NEW MIRAGE & SPACESTAR	KEY PROGRAMMING	Key programing for new mirage	MITSUBISHI NEW MIRAGE KEY PROGRAMING. OBD-MIT20	
NEW MIRAGE & SPACESTAR	REMOTE PROGRAMMING	Remote programing for NEW MIRAGE & SPACESTAR	MITSUBISHI NEW MIRAGE & SPACESTAR REMOTE PROGRAMING. OBD-MIT21	

OPEL OBd APPLICATION

SYSTEM	VEHICLES	PROCESS	DESCRIPTION
ID 33 TRANSPONDER SYSTEM	ASTRA F, OMEGA, CORSA B, VECTRA B	PIN CODE EXTRACTION	PIN CODE IS EXTRACTED FROM THE IMMOBILISER. WHILE EXTRACTING THE PIN CODE TO RESET THE IMMOBILISER UNIT IMMO BOX SOCKET SHOULD BE DISCONNECTED AND RECONNECTED... FOR SOME VEHICLES PIN CODE IS EXTRACTED FROM THE ECU. SUPPORTED ECU'S ARE AS FOLLOWS: X14XE,X16XE,X16XEL,Y13DT,Y16XE,Y17DT,Y17DIT,Z10XE,Z10XEP,Z12XE,Z12XEP,Z13DT,Z13DTH,Z14XE,Z14XEP,Z16LET,Z16SE,Z16XE, Z18XE,Z20LET.
		K-LINE KEY PROGRAMMING	DELETE KEYS AND ADD KEYS ARE DONE SEPERATELY, EACH TIME ONLY 1 KEY CAN BE ADDED.
ID 40 TRANSPONDER SYSTEM	ASTRA G, VECTRA B, ZAFIRA, CORSA C, MERIVA, TIGRA B, COMBO, OMEGA B	K-LINE PIN CODE EXTRACTION	PIN CODE IS EXTRACTED FROM THE ECU. SUPPORTED ECU LIST IS AS FOLLOWS: X14XE,X16XE,X16XEL,Y13DT,Y16XE,Y17DT,Y17DIT,Y20DTH,Z10XE, Z10XEP,Z12XE,Z12XEP,Z13DT,Z13DTH,Z14XE, Z14XEP ,Z16LET, Z16SE, Z16XE, Z18XE,Z22XE Z20LET. FOR CORSA C,MERIVA, TIGRA B PIN CODE IS EXTRACTED FROM THE INSTRUMENT CLUSTER.
		K-LINE KEY PROGRAMMING	DELETE KEYS AND ADD KEYS ARE DONE SEPERATELY, EACH TIME ONLY 1 KEY CAN BE ADDED.
		K-LINE REMOTE PROGRAMMING	DELETE REMOTES AND ADD REMOTES ARE DONE SEPERATELY, EACH TIME ONLY 1 REMOTE CAN BE ADDED.
ID 46 OLD SYSTEM	ASTRA H, VECTRA C, CORSA D,	CAN BUS PIN CODE EXTRACTION	PIN CODE IS EXTRACTED FROM THE ECU. SUPPORTED ECU LIST IS AS FOLLOWS: Z10XEP,Z12XEP,Z14XEL,Z14XEP,Z16LER,Z16LET,Z16XE, Z16 XEP,Z19DT,Z19DTL,Z20LEH, Z20LEL ,Z20LER. FOR ASTRA H PIN CODE CAN BE EXTRACTED FROM INFO DISPLAY AND FOR CORSA D PIN CODE CAN BE EXTRACTED FROM THE INSTRUMENT CLUSTER.
		CAN BUS KEY PROGRAMMING	DELETE KEYS AND ADD KEYS ARE DONE SEPERATELY, EACH TIME ONLY 1 KEY CAN BE ADDED. REMOTES ARE AUTOMATICALLY PROGRAMMED AFTER A SUCCESSFUL KEY PROGRAMMING.
ID 46 NEW SYSTEM	ASTRA J INSIGNIA	PIN CODE EXTRACTION	PIN CODE IS EXTRACTED FROM THE BREAK MODULE AND BCM MODULE.
		CAN BUS KEY PROGRAMMING	WHEN THE CAR IS TAKEN TO PROGRAMMING MODE ALL EXISTING KEYS ARE ERASED. WORKING KEYS AND NEW ARE ADDED IN A SINGLE PROCEDURE. REMOTES ARE PROGRAMMED AFTER A SUCCESSFUL KEY PROGRAMMING. TO GET THE CAR TO PROGRAMMING MODE 10 MINUTES MANDATORY DELAY SHOULD BE PASSED. IF KEYS ARE NOT PROGRAMMED WITHIN 45 MINUTES THE CAR WILL GET RID OF PROGRAMMING MODE AND WILL GO BACK TO NORMAL MODE. OR ALTERNATIVELY BATTERY CAN BE DISCONNECTED AND RECONNECTED TO GET RID OF PROGRAMMING MODE.

PEUGEOT - CITROEN OBD APPLICATION

SYSTEM	PIN CODE	KEY/REMOTE PROG.	APP.LIST	NOTE
JOHNSON CONTROL	<p>*Pin code extraction might take up to 30 minutes.</p> <p>*While extracting pin code wipers will work, it is recommended to remove the wiper fuse(located close to the wipers under the hood) to save battery.</p> <p>*It is strongly recommended to use a jump pack and start procedure with a fully charged battery.</p> <p>*Be careful not to move the Zed-FULL obd cable and car's OBD port connection.</p> <p>*If for any reason the process is interrupted, vehicle data will be erased and car won't work. If this happens, as soon as Zed-FULL is connected back to the car and pin code menu is selected, original vehicle data will be written back to the car and procedure can be repeated.</p> <p>*If pin code is extracted once, second time and the next time for the same car, pin code extraction will take about 5 minutes</p>	<p>*A blank Pcf7936 or original remote key can be programmed.</p> <p>*Remotes will automatically be programmed to the car after a successful key programming.</p> <p>*To have the remotes functioning, ignition should be turned on with that remote key.</p> <p>*All keys are deleted and programmed back with new keys, so there is no add key procedure.</p>	<p>*Citroen C4 2005-2010</p> <p>*Citroen C5 2005-2013</p> <p>*Citroen Berlingo 2008+</p> <p>*Peugeot 308 2005-2013</p> <p>*Peugeot 208 2005-2013</p> <p>*Peugeot 3008</p> <p>*Peugeot 5008</p> <p>*Citroen Jumpy 2008+</p> <p>*Peugeot Partner/Partner Tepee 2008+</p> <p>*Peugeot RCZ</p> <p>*Peugeot 607 2005+</p> <p>*Peugeot 807 2005+</p> <p>*Peugeot 407 2008+</p>	Generally Can bus system PSA cars after 2008 have this BSI.
VALEO	<p>*Pin code extraction might take up to 2 minutes.</p> <p>*While extracting pin code wipers will work, it is recommended to remove the wiper fuse(located close to the wipers under the hood) to save battery.</p> <p>*It is strongly recommended to use a jump pack and start procedure with a fully charged battery.</p> <p>*If for any reason the process is interrupted, vehicle data will not be erased and car will work. If wipers continue to work or there is another problem disconnect the battery and reconnect to fix the problem</p>	<p>*A blank Pcf7936 or original remote key can be programmed.</p> <p>*Remotes will automatically be programmed to the car after a successful key programming.</p> <p>*To have the remotes functioning, ignition should be turned on with that remote key.</p> <p>*All keys are deleted and programmed back with new keys, so there is no add key procedure.</p>	<p>*Peugeot 207 2005-2013</p> <p>*Peugeot 307 2005-2013</p> <p>*Peugeot 208 2005-2013</p> <p>*Citroen C3 2005-2013</p> <p>*Citroen C2 2005-2013</p> <p>*Citroen C4 2005-2010</p>	
CONTINENTAL	<p>*Pin code extraction might take up to 45 seconds.</p> <p>*While extracting pin code wipers will work, it is recommended to remove the wiper fuse(located close to the wipers under the hood) to save battery.</p> <p>*It is recommended to start procedure with a fully charged battery.</p> <p>*If for any reason the process is interrupted, vehicle data will not be erased and car will work. If wipers continue to work or there is another problem disconnect the battery and reconnect to fix the problem</p>	<p>*A blank Pcf7936 or original remote key can be programmed.</p> <p>*Remotes will automatically be programmed to the car after a successful key programming.</p> <p>*To have the remotes functioning, ignition should be turned on with that remote key.</p> <p>*All keys are deleted and programmed back with new keys, so there is no add key procedure.</p>	<p>*2010 + Citroen C4, Peugeot 508.</p> <p>*Citroen Ds3</p> <p>*Citroen Ds4</p> <p>*Citroen Ds5</p>	Uds system PSA cars, generally after 2010
SIEMENS	<p>*Pin code extraction might take up to 45 seconds.</p> <p>*While extracting pin code wipers will work, it is recommended to remove the wiper fuse(located close to the wipers under the hood) to save battery.</p> <p>*It is recommended to start procedure with a fully charged battery.</p> <p>*If for any reason the process is interrupted, vehicle data will not be erased and car will work. If wipers continue to work or there is another problem disconnect the battery and reconnect to fix the problem</p>	<p>*A blank Pcf7936 or original remote key can be programmed.</p> <p>*Remotes will automatically be programmed to the car after a successful key programming.</p> <p>*To have the remotes functioning, ignition should be turned on with that remote key.</p> <p>*All keys are deleted and programmed back with new keys, so there is no add key procedure.</p>	2004-2008 Peugeot 407	
K-LINE	Pin code can not be extracted via OBD	<p>*A blank Pcf7936 or original remote key can be programmed.</p> <p>*Remotes will automatically be programmed to the car after a successful key programming.</p> <p>*To have the remotes functioning, ignition should be turned on with that remote key.</p> <p>*All keys are deleted and programmed back with new keys, so there is no add key procedure.</p>	<p>*All PSA cars before 2004</p> <p>*Peugeot 206 all years</p> <p>*Peugeot Partner up to 2008</p> <p>*Citroen Berlingo up to 2008</p>	K-line PSA cars generally before 2005

PEUGEOT - CITROEN OBD APPLICATION

SYSTEM	PIN CODE	KEY/REMOTE PROG.	APP.LIST	NOTE
VALEO UDS	<p>*Pin code extraction might take up to 2 minutes.</p> <p>*If for any reason the process is interrupted, vehicle data will not be erased and car will work. If wipers continue to work or there is another problem disconnect the battery and reconnect to fix the problem</p>	<p>*A blank Pcf7936 or original remote key can be programmed.</p> <p>*Remotes will automatically be programmed to the car after a successful key programming.</p> <p>*To have the remotes functioning, ignition should be turned on with that remote key.</p> <p>*All keys are deleted and programmed back with new keys, so there is no add key procedure.</p>	<p>*Citroen C-Elysee 2012-2015</p> <p>*Peugeot 301 2012-2015</p> <p>*Peugeot 208 2012-2015</p>	

RENAULT OBD APPLICATION

VEHICLE	TRANSPONDER ID	PACK	DESCRIPTION
KANGOO(-2001), CLIO(-2001), TRAFFIC(-2001), MASTER(-2001)	PCF7931,T5	SYSTEM 1	THERE IS NO OBD PROCEDURE FOR THIS SYETEM, KEYS CAN BE CLONED OR PROGRAMMED VIA EEPROM APPLICATION.
CLIOII, TWINGO(02-07), SYMBOL(09-10) ,SOLENZA LOGAN(04-07), LOGAN(08 +), SANDERO	PCF7936 - PCF7946	RENAULT-OBD-PCK1 KEY PROGRAMMING	KEY INFO IS GATHERED FROM VEHICLE VIA OBD AND DISPLAYED ON THE SCREEN. PIN CODE IS EXTRACTED VIA OBD. A BLANK CIPHER-MANCHESTER PCF7936 IS USED TO PROGRAMME A KEY. REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING. ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY.
LAGUNA II(00-04) LAGUNAI(05-07) ESPACE IV (03-06) ESPACE IV (07- 10)	PCF7947 CARD KEY	RENAULT-OBD-PCK2 KEY PROGRAMMING	CARD KEY INFO IS GATHERED FROM VEHICLE VIA OBD AND DISPLAYED ON THE SCREEN. PIN CODE IS EXTRACTED VIA OBD. REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING. ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY. FOR LAGUNA CARD KEYS WITH PCF7936 TRANSPONDER, KEYLESS MENU IS USED TO PROGRAMME THE KEY.
MEGANEII (03-06) SCENICII (03-06)	PCF7947 CARD KEY	RENAULT-OBD-PCK5 KEY PROGRAMMING	CARD KEY INFO IS GATHERED FROM VEHICLE VIA OBD AND DISPLAYED ON THE SCREEN. PIN CODE IS EXTRACTED VIA OBD. ONLY REMOTE KEY CAN BE PROGRAMMED. REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING. ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY.
MEGANEII (07+) SCENICII (07+)	PCF7947 CARD KEY	RENAULT-OBD-PCK6 KEY PROGRAMMING	CARD KEY INFO IS GATHERED FROM VEHICLE VIA OBD AND DISPLAYED ON THE SCREEN. PIN CODE IS EXTRACTED VIA OBD. A BLANK CIPHER-MANCHESTER PCF7936 IS USED TO PROGRAMME A KEY. REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING. ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY.
CLIOII HB CLIO CAMPUS	PCF7946	RENAULT-OBD-PCK4 KEY PROGRAMMING	KEY INFO IS GATHERED FROM VEHICLE VIA OBD AND DISPLAYED ON THE SCREEN. PIN CODE IS EXTRACTED VIA OBD. ONLY REMOTE KEY CAN BE PROGRAMMED. REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING. ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY.
MEGANE I SCENIC I	ID 60-64	RENAULT-OBD-PCK8 KEY PROGRAMMING	PIN CODE IS CALCULATED FROM WORKING KEY OR EXTRACTED WITH EEPROM APPLICATION. THEN KEYS ARE PROGRAMMED VIA OBD. REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING. ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY.
KANGOO(2002-2007), TRAFFIC(2002-2007), MASTER(2002-2007)	PCF7936,PCF7946	RENAULT-OBD-PCK3 KEY PROGRAMMING	KEY INFO IS GATHERED FROM VEHICLE VIA OBD AND DISPLAYED ON THE SCREEN. PIN CODE IS EXTRACTED VIA OBD. A BLANK CIPHER-MANCHESTER PCF7936 IS USED TO PROGRAMME A KEY. REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING. ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY.






RENAULT OBD APPLICATION

VEHICLE	TRANSPONDER ID	PACK	DESCRIPTION
Clio3(2006+), Modus(2006+)	PCF7946/47	RENAULT-OBD-PCK9 KEY PROGRAMMING	<p>KEY INFO IS GATHERED FROM VEHICLE VIA OBD AND DISPLAYED ON THE SCREEN. PIN CODE IS EXTRACTED VIA OBD.</p> <p>A BLANK CIPHER-MANCHESTER PCF7936 IS USED TO PROGRAMME A KEY. SOME MODELS ONLY ACCEPTS REMOTE KEY.</p> <p>REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING.</p> <p>ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY.</p>
Kango3(2008+), Master(2010+)	PCF7946 PCF7947	RENAULT-OBD-PCK10 KEY PROGRAMMING	<p>KEY INFO IS GATHERED FROM VEHICLE VIA OBD AND DISPLAYED ON THE SCREEN. PIN CODE IS EXTRACTED VIA OBD.</p> <p>A BLANK CIPHER-MANCHESTER PCF7936 IS USED TO PROGRAMME A KEY.</p> <p>REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING.</p> <p>ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY.</p>
LAGUNAIII(08+), KOLEOS	PCF7952 CARD KEY	RENAULT-OBD-PCK11 KEY PROGRAMMING	<p>CARD KEY INFO IS GATHERED FROM VEHICLE VIA OBD AND DISPLAYED ON THE SCREEN. PIN CODE IS EXTRACTED VIA OBD.</p> <p>ONLY REMOTE KEY CAN BE PROGRAMMED.</p> <p>REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING.</p> <p>ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY.</p>
2010-2013 SYMBOL , DUSTER,LOGAN, SANDERO	PCF7936 PCF7946	RENAULT-OBD-PCK12 KEY PROGRAMMING	<p>KEY INFO IS GATHERED FROM VEHICLE VIA OBD AND DISPLAYED ON THE SCREEN. PIN CODE IS EXTRACTED VIA OBD.</p> <p>MOSTLY PIN CODE IS EXTRACTED VIA OBD.IF KEY ID DISPLAYED ON THE SCREEN IS 09 09 09 09 PIN CODE IS EXTRACTED FROM KEY OR EEPROM.</p> <p>A BLANK CIPHER-MANCHESTER PCF7936 IS USED TO PROGRAMME A KEY. REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING.</p>
FLUENCE MEGANE3 KEY PROGRAMING	PCF7961 CARD KEY PCF7961 BLADE KEY	RENAULT-OBD-PCK13 KEY PROGRAMMING	<p>ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY.</p> <p>CARD KEY INFO IS GATHERED FROM VEHICLE VIA OBD AND DISPLAYED ON THE SCREEN. PIN CODE IS EXTRACTED VIA OBD.</p> <p>ONLY REMOTE KEY CAN BE PROGRAMMED.</p> <p>REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING.</p> <p>ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY.</p>
CLIO 4 KEY PROGRAMING	HITAG AES CARD KEY	RENAULT-OBD-PCK14 KEY PROGRAMMING	<p>CARD KEY INFO IS GATHERED FROM VEHICLE VIA OBD AND DISPLAYED ON THE SCREEN. PIN CODE IS EXTRACTED VIA OBD.</p> <p>ONLY REMOTE KEY CAN BE PROGRAMMED.</p> <p>REMOTE IS PROGRAMMED AFTER A SUCCESSFULL KEY PROGRAMMING.</p> <p>ALL EXISTING KEYS ARE ERASED BEFORE PROGRAMMING OR ADDING A NEW KEY.</p>



TOYOTA OBD APPLICATION

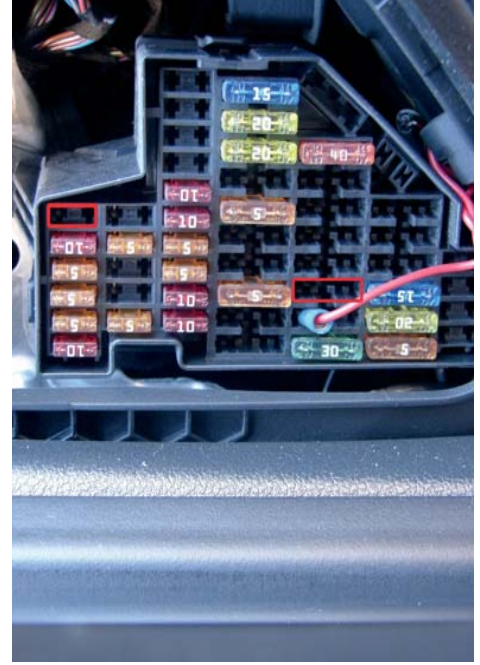
System / Chip	Types	Notes	App. List
4C Chip		There is no OBD key programming procedure for this system. Transponders can be cloned or keys can be programmed with eeprom application.	
4D DST Chip (40 bit)	Immo reset Type 1	If all keys are lost this procedure is applied. All keys are deleted and key count will be shown as 0. Zed-Full pack name: OBD-TOI03	Camry[type2] 03-08 Corolla 05- FJ cruiser 07-08 Highlander 04- Land cruiser 03-06 Matrix 05-07 Rav4 06-07 Sienna 04-07 Solara 04-06 Tacoma 05-08 Yaris 07- 4Runner 03-07 Prius 04-06 Avalon 07-08 Sequoia 08- Tundra 07-08
	Immo reset Type 2	If all keys are lost this procedure is applied. All keys are deleted and new key(s) should be programmed to end the procedure. After resetting keys can be added as many as wanted. Zed-Full Pack name: OBD-TOI02	
	Add key	If master key exists this procedure can be followed. No keys can be added without having a valid master key. Zed-Full Pack name: OBD-TOA01	
	Delete key	If master key exists this procedure can be followed. Keys can not be erased without a valid master key. At the end of the procedure all keys excluding master key on the ignition will be deleted and key count will be shown as 1. Zed-Full Pack name: OBD-TOD01	
G key system 4D DST Plus G & H Chip (80 bit)	Immo reset (Usa Cars)	If all keys are lost this procedure is applied. All keys are deleted and key count will be shown as 0. Zed-Full Pack name: OBD-TOC03	
	Delete ALL Keys	If master key exists this procedure can be followed. Keys can not be erased without a valid master key. At the end of the procedure all keys excluding master key on the ignition will be deleted and key count will be shown as 1. Zed-Full Pack name: OBD-TOD02	
	Add key	If master key exists this procedure can be followed. No keys can be added without having a valid master key. Zed-Full Pack name: OBD-TOA02	
Keyless Go	Immo reset (Usa Cars)	If all keys are lost this procedure is applied. All keys are deleted and key count will be shown as 0. Zed-Full Pack name: OBD-TOC03	
	Add key	If master key exists this procedure can be followed. No keys can be added without having a valid master key. Zed-Full Pack name: OBD-TOC02	
	Delete ALL Keys	If master key exists this procedure can be followed. Keys can not be erased without a valid master key. At the end of the procedure all keys excluding master key on the ignition will be deleted and key count will be shown as 1. Zed-Full Pack name: OBD-TOC01	

VW - AUDI - SEAT - SKODA OBD APPLICATION

SYSTEM	PIN CODE	PRECODE/TRANSPONDER	REMOTE PROG	APP. LIST	NOTE
K-LINE CLUSTER 	Pin code is extracted from the cluster. It is a 4 digit pin code.	There is no need for precoded transponder for these systems, a blank 48 or 48 can bus transponder will work.	*Remote is programmed via OBD, there is also an on board procedure for remote programming but it does not work all the time. *Correct series of remote should be used. N series of remote works for most of the cars.	All VW, Skoda, Seat cars 2000-2004, Polo, Transporter, Ibiza, Cordoba, Fabia 2004-2007. Transporter 2007-2009. 2007-2008-2009 Polo, Fabia, Ibiza are excluded.	
K-LINE POLO, IBIZA, CORDOBA, FABIA 	Pin code is extracted from the cluster or the Ecu. It is a 4 digit pin code.	There is no need for precoded transponder for these systems, a blank 48 or 48 can bus transponder will work.	*Remote is programmed via OBD, there is also an on board procedure for remote programming but it does not work all the time. *Correct series of remote should be used. N series of remote works for most of the cars.	2007-2008-2009 Polo, Fabia, Ibiza, Cordoba	VDO and AGD clusters, EDC15 and Magnetti marelli Ecu's are supported. Zed-FULL covers this system vehicles 100%.
CAN BUS SYSTEM 	Pin code might be extracted either from ECU or Instrument cluster, it might be a 4 or 5 digit pin code.	*There is no need for precoded transponder. *48 can bus transponder should be used, a regular 48 transponder will definitely won't work even though programming seem successful. *Vw, Skoda and Seat has different can bus transponders and they can not be used instead of each other.	*Remote is programmed via OBD, there is no known on board procedure for remote programming. *Correct series of remote should be used. N series of remote works for most of the cars.	All VW Skoda Seat cars 2004-2007 except Passat B6, Vw cc, Vw Touareg, Polo, Transporter, Ibiza, Cordoba, Fabia, Beetle.	*Some 2007 cars might be a dealer key system(USA) *If Zed-FULL says "channel is locked" even after waiting 5 minutes, choose add key option to programme key.
DEALER KEY SYSTEM 	Pin code and CS might be extracted either from ECU or Instrument cluster, it might be a 4 or 5 digit pin code.	*48 Canbus transponder should be precoded with CS. *Blank 48 can bus transponder or regular 48 transponder will definitely won't work programming seem successful. *If CS is 6 bytes, 7 th byte must be brute forced using the external antenna ring.	*Remote is programmed via OBD, there is no known on board procedure for remote programming. *Correct series of remote should be used. N series of remote works for most of the cars.	All VW Skoda, Seat cars 2008-2009 except Passat B6, Vw cc, Vw Touareg, Polo, Transporter, Ibiza, Cordoba, Fabia, Beetle.	Some 2007 cars might be a dealer key system(USA)
BEETLE 	Pin code and CS is extracted from ECU	*Blank Vw can bus 48 transponder is precoded with the CS *Blank 48 can bus transponder or regular 48 transponder will definitely won't work even though programming seem successful. *If CS is 6 bytes, 7 th byte must be brute forced using the external antenna ring.	No remote programming via OBD is available on Zed-FULL. There is an On board procedure for it.	2006-2011 vw Beetle	There is a problem in key programming, it will be fixed soon.

VW - AUDI - SEAT - SKODA OBD APPLICATION

SYSTEM	PIN CODE	PRECODE/TRANSPONDER	REMOTE PROG	APP.LIST	NOTE
<p>UDS CLUSTER</p> 	<p>Pin code and CS is extracted from the cluster. It is a 4 or 5 digit pin code.</p>	<p>*Regular 48 transponder should be precoded with CS. *Vw, Audi,Skoda, Seat blank 48 can bus transponder will also work. *CS is 12 Bytes and all 12 bytes are always available,there is no need for brute force with the external antenna ring. *There are 2 types of transponders, type 1 can be programmed to all vehicles where type 2 transponders can only be programmed to vehicles which has type 2 system. *Zed-Full identifies the vehicle and transponder system before proceeding to programming.</p>	<p>*Remote is programmed via OBD. *There is only 1 type of remote. *There is no remote deleting procedure yet, it will be added soon.</p>	<p>All 2010+ Vw, Skoda, Seat cars except Passat B6, Vw Cc, Vw Touareg.</p>	<p>There are 4 different clusters: *VDO(24c32,24c64 EEPROM) If all keys are lost, using C02P cable (without removing EEPROM from the cluster) or EEPROM adapter, service mode can be activated 2010-2012, very common. *Magnetti Marelli: Add key and lost key situation are all via OBD, not very common, 2010-2012. *Johnson control: Add key and lost key situation are all via OBD, Polo, Ibiza, Fabia 2010-2012, not very common. *VDDI(24c64 EEPROM): Add key and lost key situation are all via OBD 2012-2014 very common</p>
<p>PASSAT B6 SYSTEM</p> 	<p>Pin code and CS is extracted from the ECU via OBD</p>	<p>*Vw can Bus 48 or Pcf7936 transponder must be precoded with CS. *If CS is 6 bytes and if Zed-FULL says "No response", Comfort module EEPROM file must be sent to IEA Tech support *If CS is 7 bytes, Zed-FULL will precode the transponder.</p>	<p>Remote is programmed via OBD. There is no known on board programming procedure.</p>	<p>Passat B6(Smart key with 48 or Pcf7936 transponder Cc(Smart key with 48 or Pcf7936 transponder) 2004-2008. If the car is 2008+ comfort module EEPROM file must be sent to IEA tech support.</p>	<p>If all keys are lost fuses as in the picture needs to be short circuited in order to Wake up the ECU. *Prox. Keys has Pcf7936 transponder.</p>




SYSTEM	PIN CODE	PRECODE/TRANSPONDER	REMOTE PROG	APP.LIST	NOTE
PORSCHE CAYENNE/TOUAREG	Pin code and CS is extracted from the ECU via OBD.	*A blank Pcf7936 or original remote key needs to be precoded with the extracted CS. *if CS is 6 bytes, 7 th byte must be brute forced using the external antenna ring(This Function is not supported in Zed-FULL yet, not very common).	Remote is programmed via OBD. There is no known on board programming procedure.	2004-2008 Porsche Cayenne, Vw Touareg with gasoline engine. Can bus Diesel cars with EDC16 ecu(K-line with EDC16 ecu is not supported)	If all keys are lost fuses as in the picture needs to be short circuited in order to Wake up the ECU.

Short circuit 26-36 and 41st pins

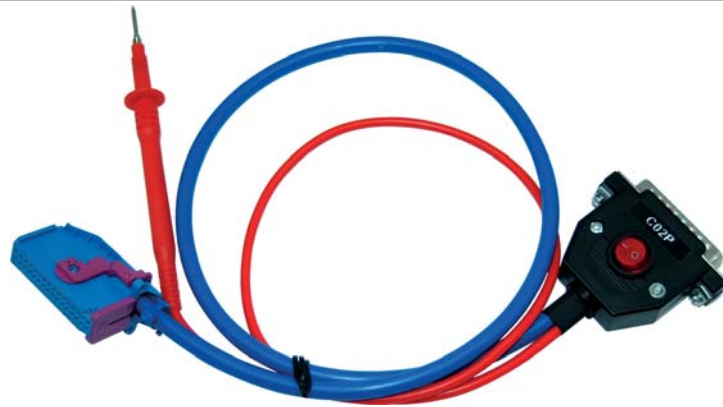
AUDI A3 CLUSTER	Pin code and CS is extracted from the cluster in most cases, but in some cases it maybe extracted from the ECU	*A blank Audi can bus transponder must be precoded using the CS. *48 can bus transponder should be used, a regular 48 transponder will definitely won't work even though programming seem successful. *if CS is 6 bytes, 7 th byte must be brute forced using the external antenna ring	Remote is programmed via OBD. There is no known on board programming procedure.	2004-2008 Audi A3	There are some certain types that is not supported by Zed-FULL(if the vehicle has Simos 7 Ecu and undefinable cluster) but majority of these cars are supported.
AUDI A4 CLUSTER	Pin code and CS is extracted from the cluster.	*if the vehicle has RB4 cluster, blank 48 transponder is used. *if the vehicle has RB8 cluster, a blank 48 transponder should be precoded with the CS. *Always 12 bytes of CS is available, there is no need to use external antenna ring	ats h've u cluster m d xic . T ere iu de	En boar nu	

VW - AUDI - SEAT - SKODA OBD APPLICATION

<p>AUDI A6 & Q7 ECU & EZS</p> 	<p>*If there is a working key, EZS is read first, then with the pin code and part of CS gathered from EZS, complete CS is read from EZS again. *If all keys are lost, ECU is read first, then with the pin code and part of CS gathered from ECU, complete CS is read from EZS.</p>	<p>*This software can extract pin code and CS for the vehicles with flick key(8E transponder). Smart key systems are not supported. *Transponder should be pre-coded before programming, a blank 8E transponder definitely won't be programmed.</p>	<p>*Remote is programmed via OBD. There is no known on board programming procedure. *There are 2 types of remotes with 868 Mhz. And 433 Mhz. Frequency. If wrong remote key is used(incorrect frequency) transponder will work but not the remote, so in this case transponder should be unlocked(under OBD-VAG-Audi A6/Q7 menu) and correct remote with correct frequency should be used.</p>	<p>2005-2011 Audi A6 2005-2011 Audi Q7 Note: Only models with a blade key with a 8E transponder</p>	<p>If all keys are lost fuses as in the picture needs to be short circuited in order to Wake up the ECU.</p>
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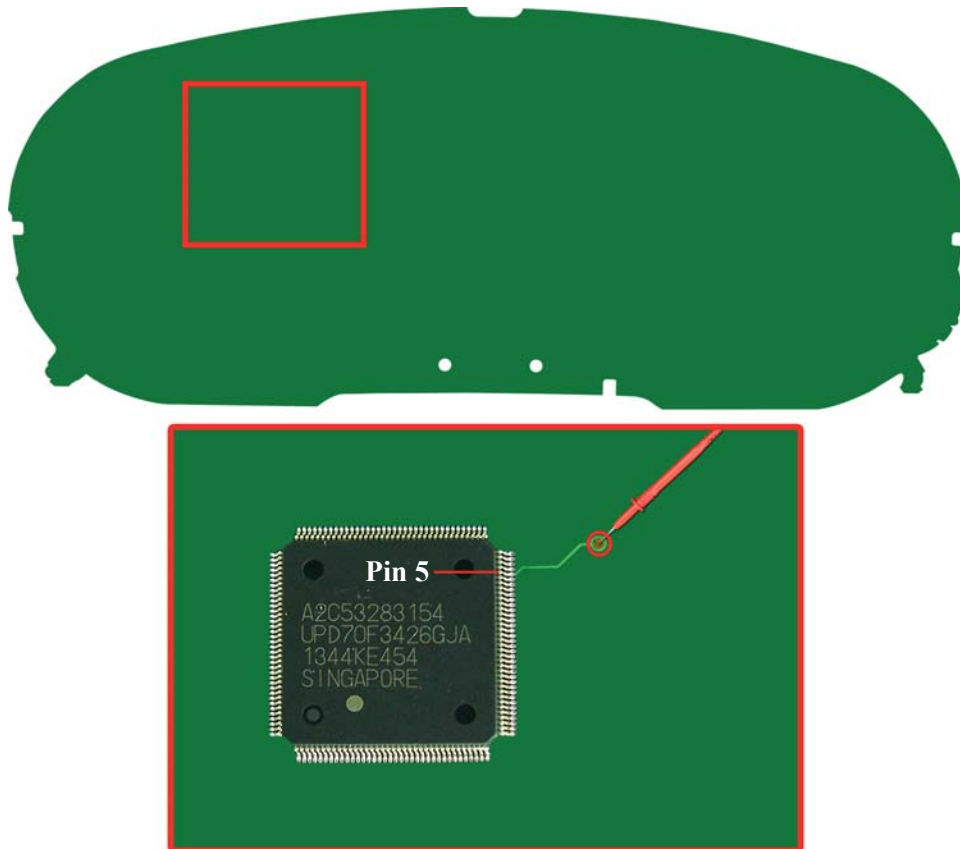
Programming Key using "C02P" Cable for VAG UDS (VDO, VDD) Cluster System Lost Key Situation



“ZFH-C02P”

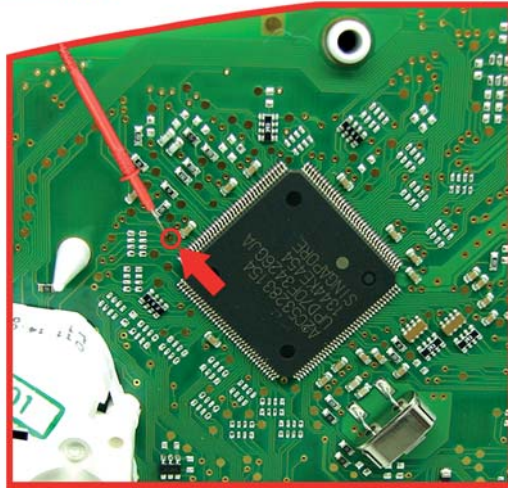
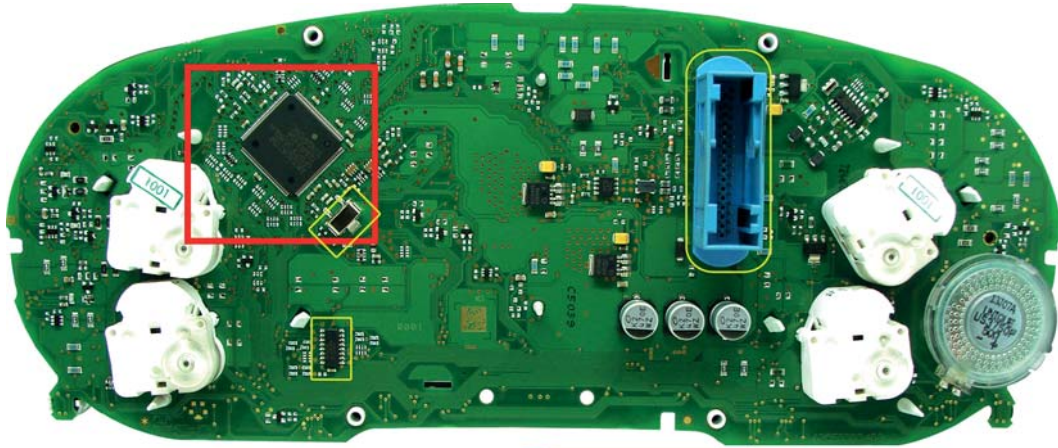
For VAG Vehicles with UDS VDO/VDD instrument cluster, to get the vehicle to the service mode, instrument cluster needs to be removed and with the help of C02P cable vehicle can be taken to service mode without desoldering Eeprom or disassembling the cluster.

INSTRUMENT CLUSTER GENERAL DESCRIPTION

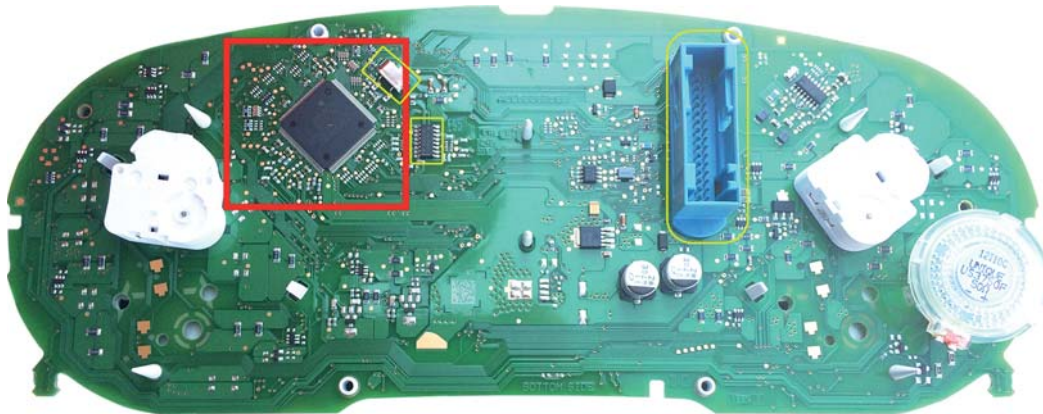


For all clusters in this document, when you see the numbers and letters in correct order (not upside down) the fifth pin from the right top corner is the touch point for the pogo pin.

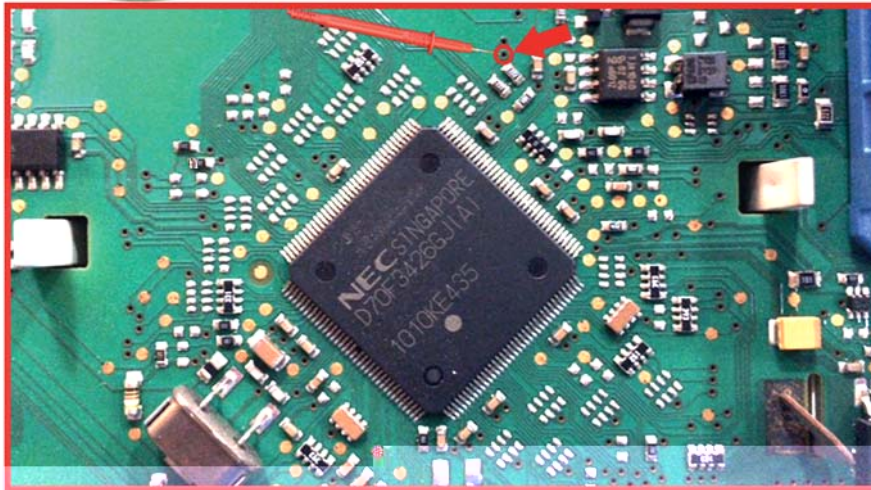
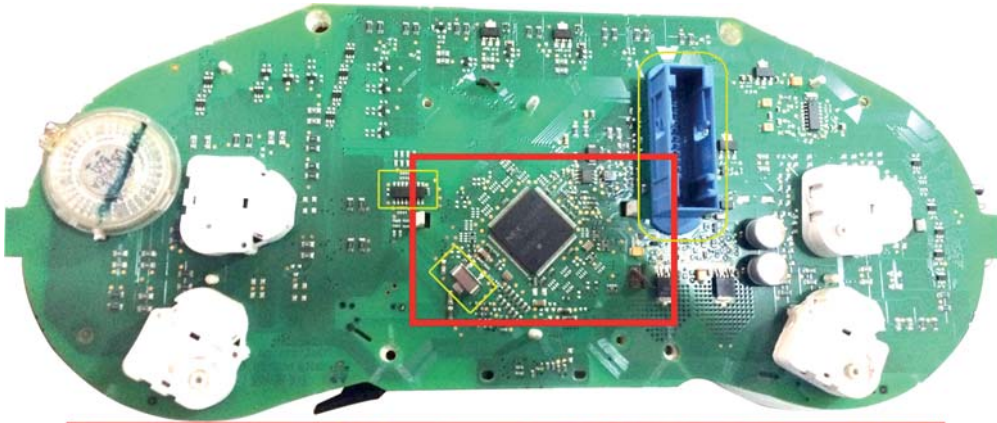
INSTRUMENT CLUSTER TYPE 1



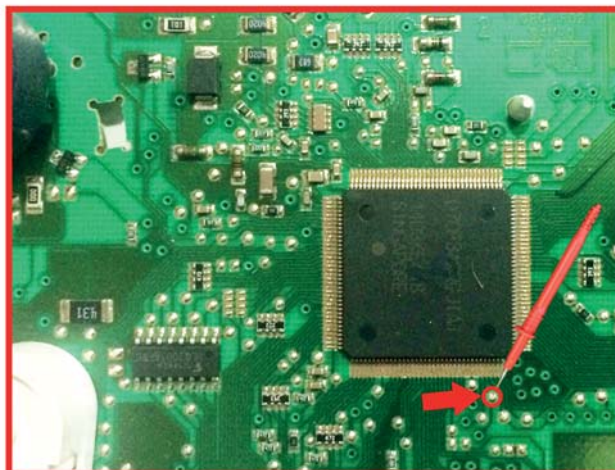
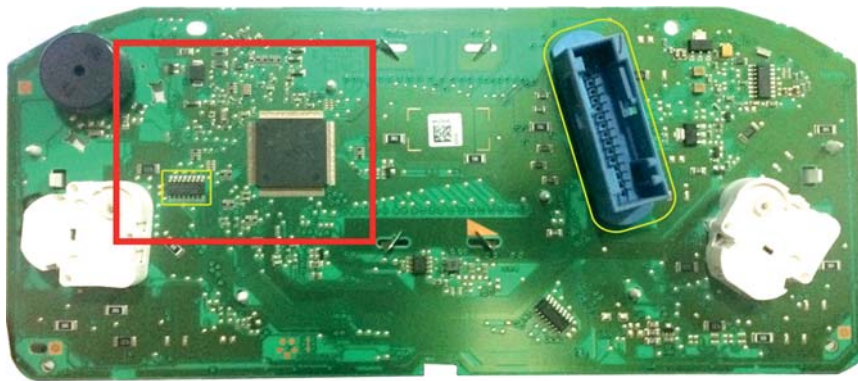
INSTRUMENT CLUSTER TYPE 2



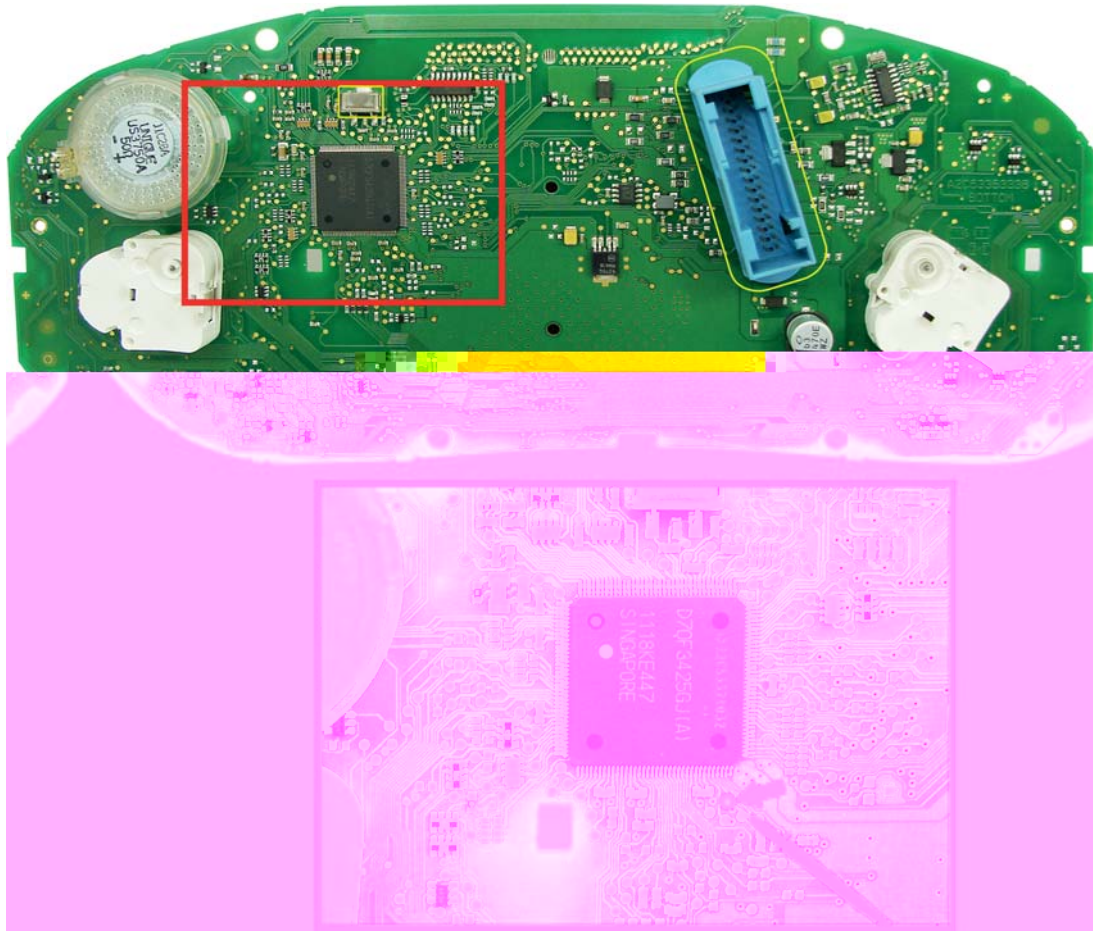
INSTRUMENT CLUSTER TYPE 3



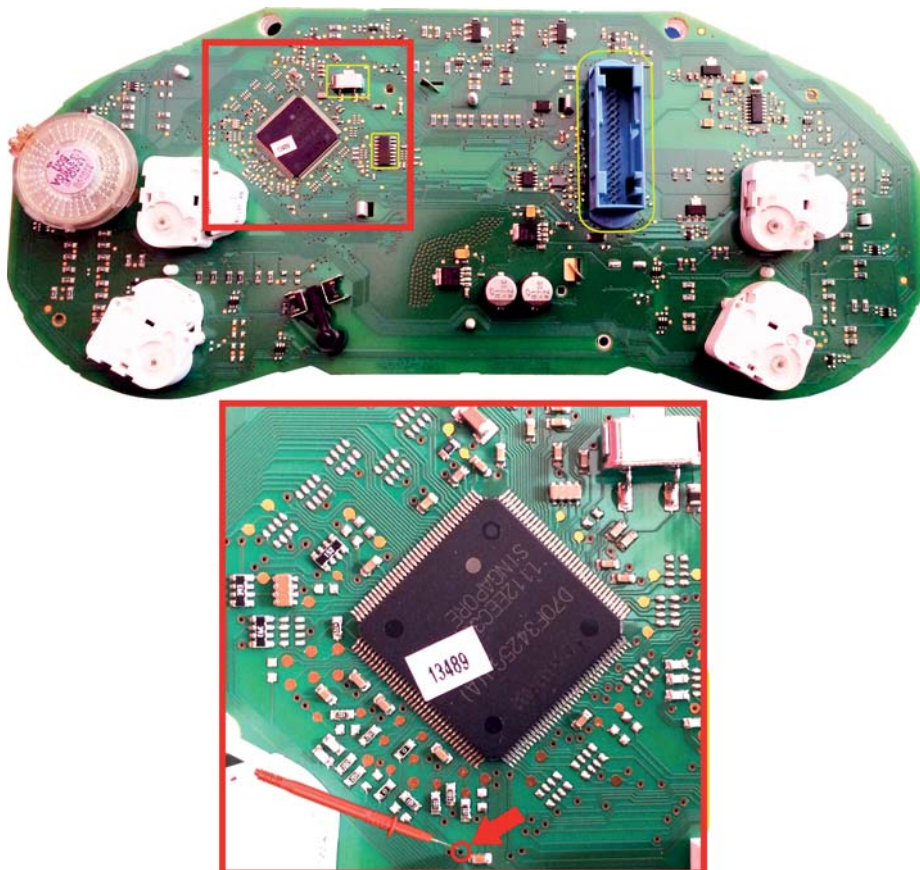
INSTRUMENT CLUSTER TYPE 4



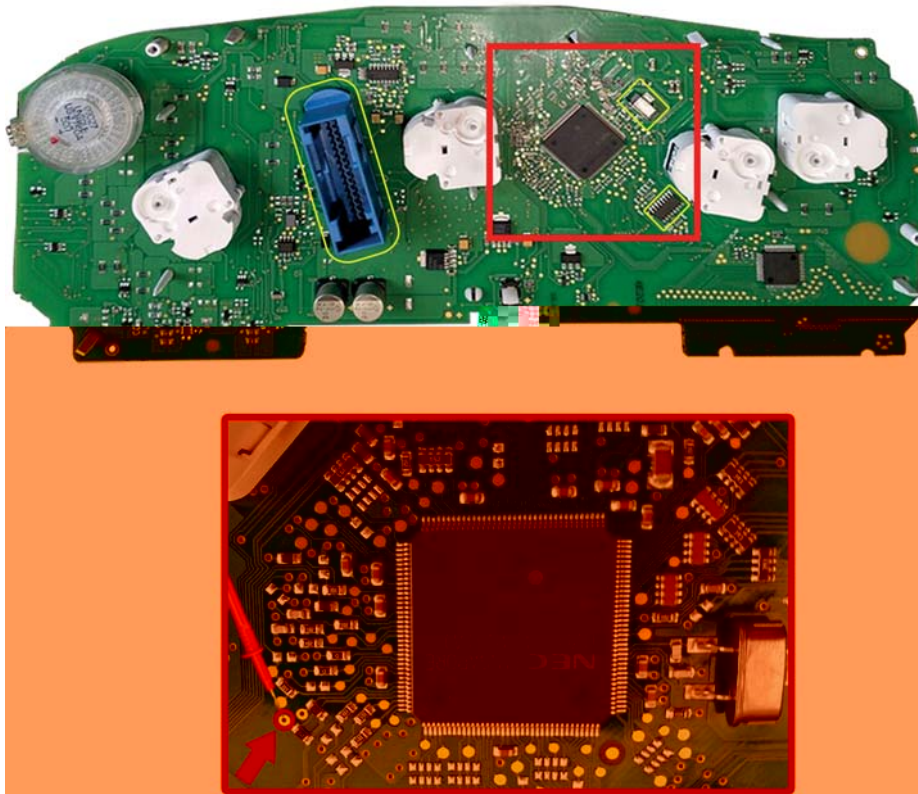
INSTRUMENT CLUSTER TYPE 5



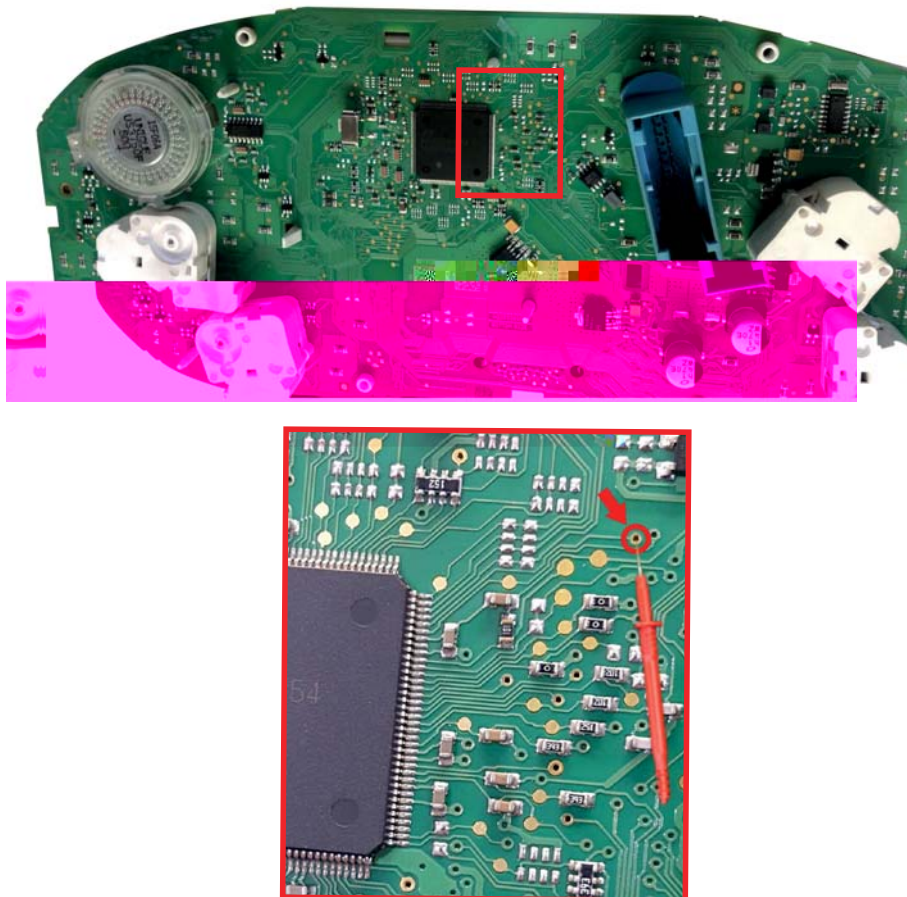
INSTRUMENT CLUSTER TYPE 6



INSTRUMENT CLUSTER TYPE 7



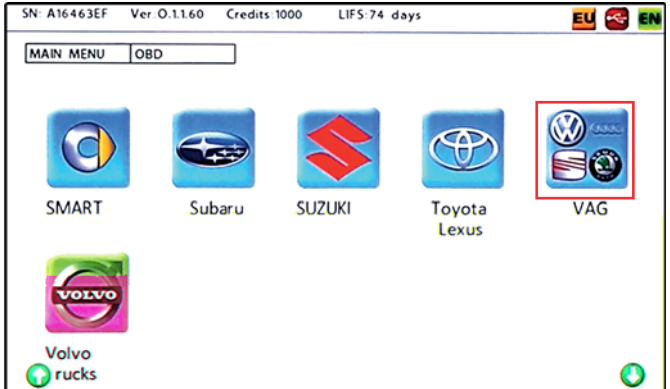
INSTRUMENT CLUSTER TYPE 8



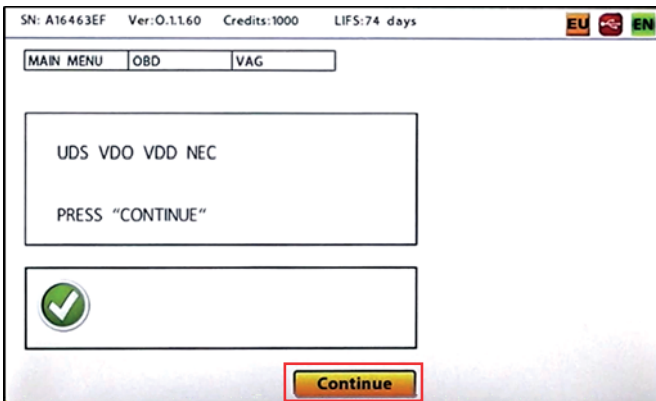
Programming Key using "C02P" Cable for VAG UDS (VDO, VDD) Cluster System Lost Key Situation



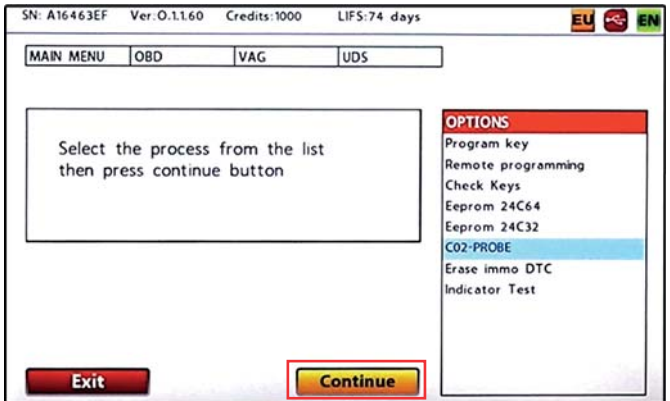
Select "OBD" option.



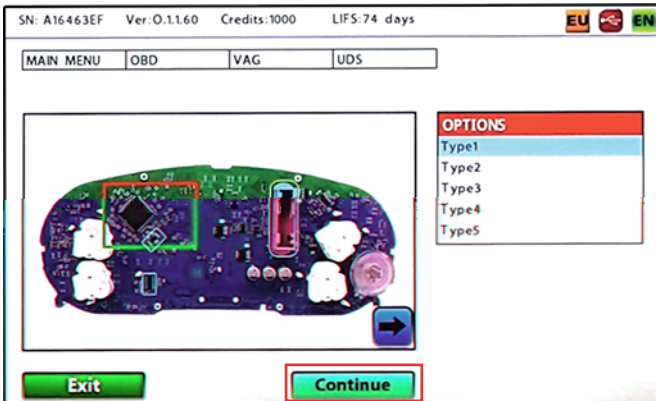
Select brand (VAG)



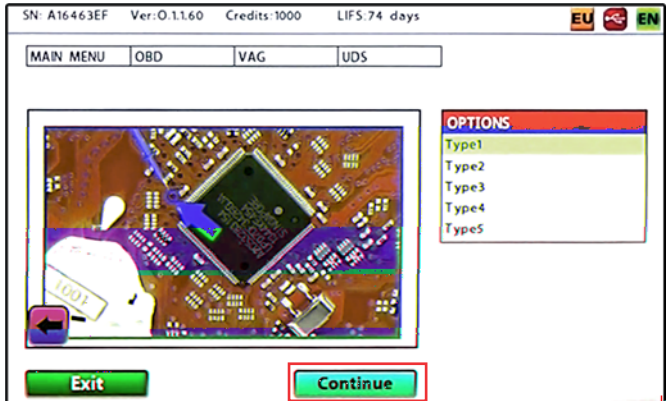
Zed-FULL will automatically detect the car system.
Press on "Continue".



Select "C02-Probe" then "Continue".

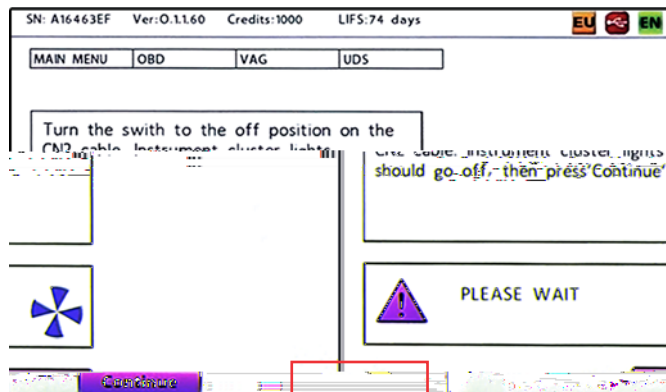


Make sure the picture on the Zed-FULL screen
matches with the cluster circuit board.

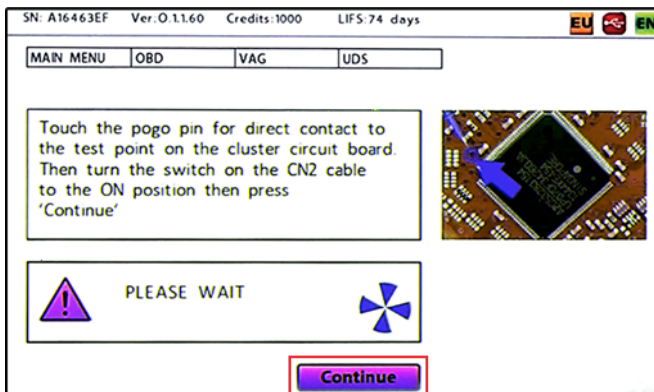


Using arrow on right hand bottom side on Zed-FULL
screen, you may select and see the point that you
need to touch with the probe during procedure.

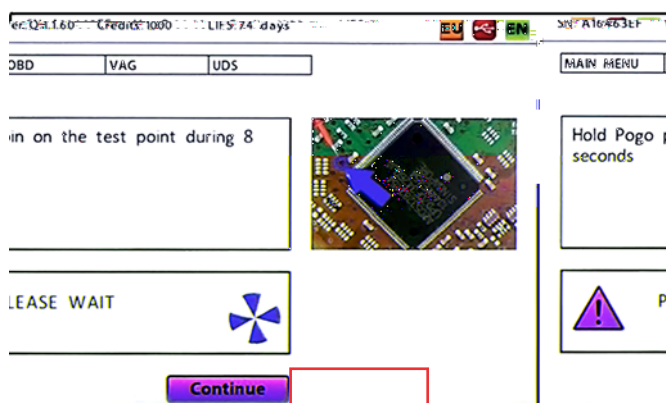
Programming Key using "C02P" Cable for VAG UDS (VDO, VDD) Cluster System Lost Key Situation



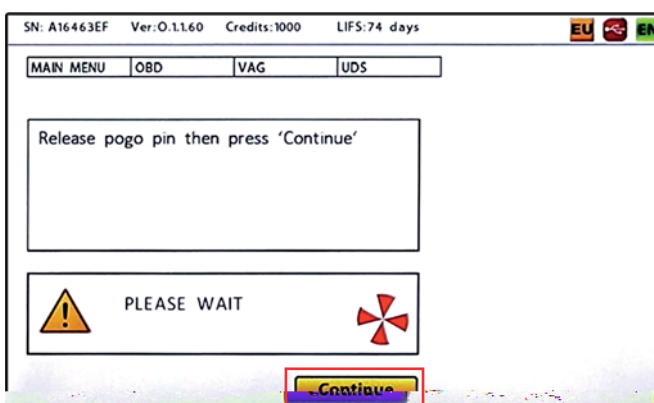
Take the switch on the "C02P" cable to "OFF" position. Cluster lights will go OFF. Press "Continue" button.



Touch and hold the probe on the point shown in the picture. Take the switch to "ON" position and press "Continue" button.



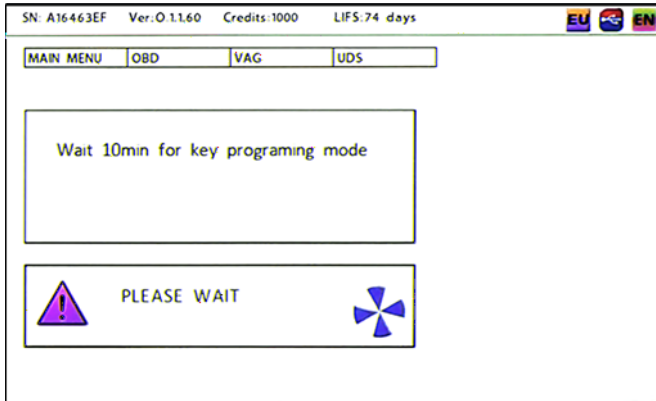
Keep holding the probe on the point on the cluster for 8 seconds.



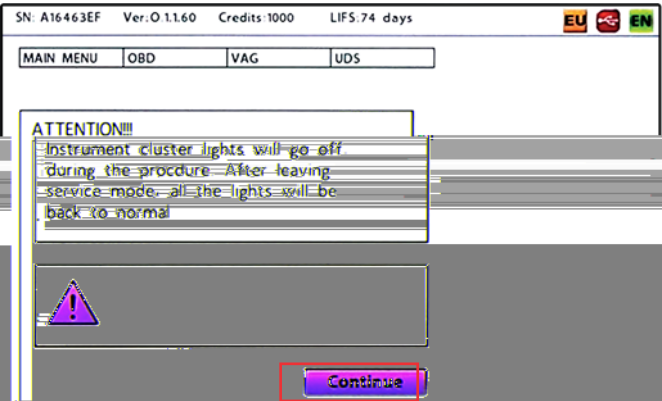
Remove the probe from the point and press "Continue" button.

As per the procedure, all these steps will be done twice. Please follow the screen instructions carefully.

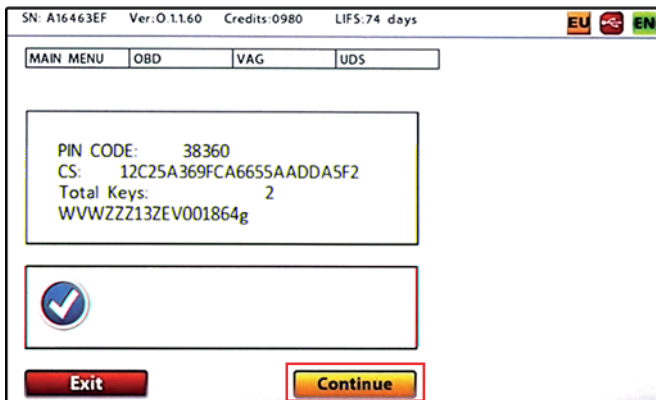
Programming Key using "C02P" Cable for VAG UDS (VDO, VDD) Cluster System Lost Key Situation



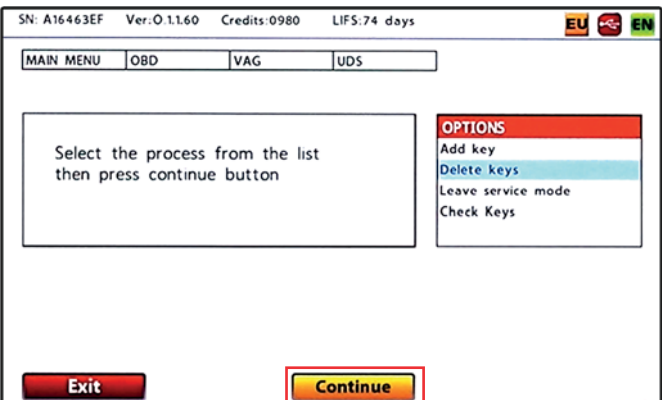
It may take 10 minutes for some clusters to go into programming mode.



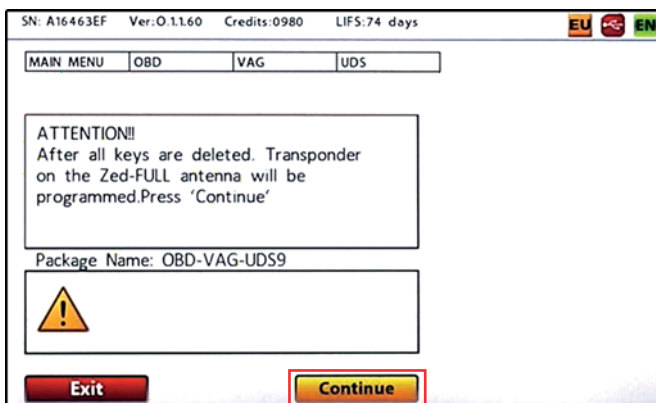
During key programming procedure cluster lights will remain OFF. After key programming procedure cluster lights will return to normal state.



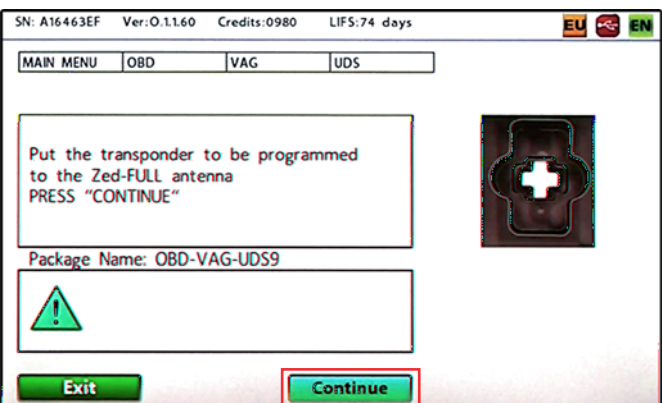
During key programming procedure pincode, CS, key count and VIN number will be shown on Zed-FULL screen.



Select the option you are willing to do from the list and press "Continue"

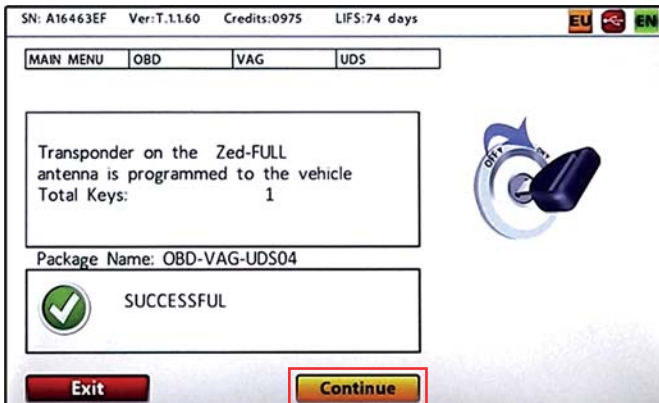


After erasing all keys, the key you put on the Zed-FULL antenna will be programmed to the cluster.

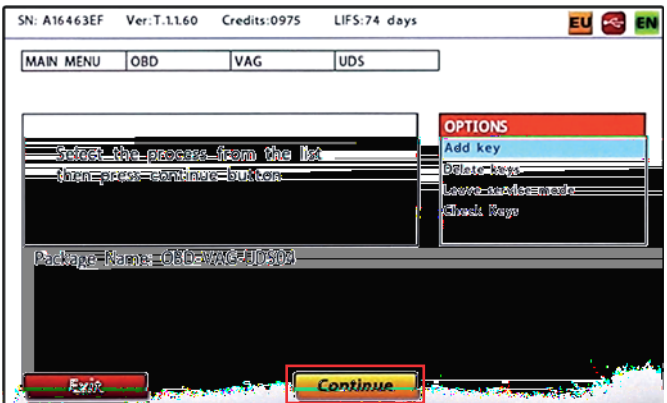


Put the next transponder to be programmed to Zed-FULL antenna and press "Continue" button

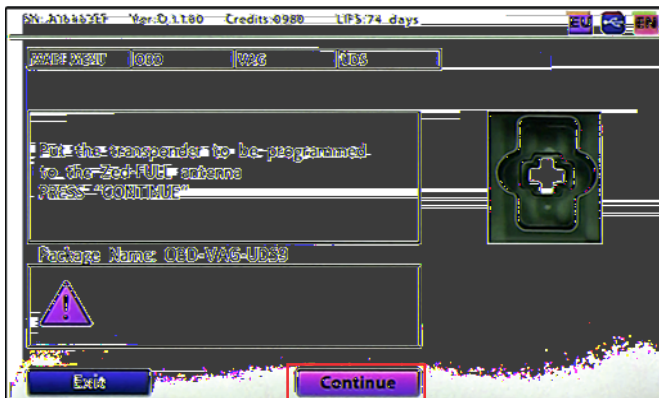
Programming Key using "C02P" Cable for VAG UDS (VDO, VDD) Cluster System Lost Key Situation



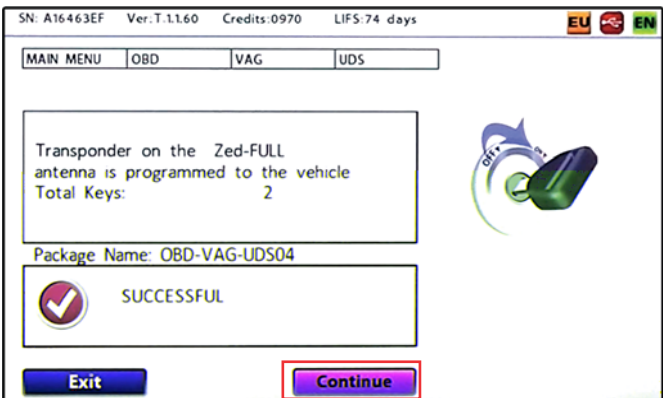
Take the switch on the "C02P" cable to "OFF" position. Cluster lights will go OFF. Press "Continue" button.



Touch and hold the probe on the point shown in the picture. Take the switch to "ON" position and press "Continue" button.



Keep holding the probe on the point on the cluster for 8 seconds.







LEADING TRANSPONDER TECHNOLOGY



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