R260S - In-Circuit Programmer

The ultimate solution for Freescale's microcontrollers!

Items now available for in-circuit programming:

- BMW 1,3,5,6 Series CAS2 White (MC9S12)
- BMW 1,3,5,6,X5 Series CAS3 Black (MC9S12)
- BMW 1,3,5,6,X5 Series CAS3 Black (MC9S12X)
- BMW 7 Series CAS 2002 (HC12)
- BMW 7 Series CAS 2005 (9S12)
- BMW X3/X5 EWS4 (MC9S12)
- Ford Mustang 2007 (MC9S12)
- Landrover Freelander 2002 (HC12)
- Landrover Freelander 2004 (HC12)
- Mercedes A-Class 2004 Key Module (MC9S12)
- Mercedes C/CLK C209 ZGW (MC9S12)
- Mercedes E/C W211 Key Module (HC12)
- Mercedes E/C/CLK/SLK W211 Key Module (MC9S12)
- Mercedes ML/R W164 Key Module (MC9S12)
- Mercedes S/SL EZS R230 (MC9S12)
- Mercedes Sprinter EZS (MC9S12)
- Mini One/Cooper Dashboard (HC12)
- Mini One/Cooper EWS4 (MC9S12)
- Mini One/Cooper CAS3 Black (MC9S12X)
- Volkswagen Crafter EZS (MC9S12)

R260S - Instructions

Motorola/Freescale MC912-9S12-9S12(Xgate) in-circuit Programmer

Introduction:
R260S Programmer can program the Motorola/Freescale 68HC912/MC912/MC9S12 microcontroller families, including the latest MC9S12X XGATE-based processor family. The system works as a in-circuit programmer, no needs to remove the chip from the target board nor lifting any pin. It connects to the board via serial connection by using only few wires and it works with secured chips, too. No matter if secured or not!

Installing and using instructions:

1. Install the software located in the CD on a PC running Windows (95,98,Me,XP tested).
2. Attach the R260S dongle to the PC RS232 communication port.
3. Connect the wires to the board as explained in the pictures. In some cases you need to leave the green wire unconnected... in that case, please, be careful that the wire does not touch the board inadvertently.
4. Run the PC application software and select the desired model of the car you need to program.
5. Power up the interface with a +12Vdc regulated supply.
6. Press “Read” button to read the micro, after the decoding phase you can read the decoded old-value.
7. Type the desired new value and then press the “Write” button. After the writing phase the system checks automatically that the new value has been written correctly to the eeprom. If desired, you can read again the newly programmed value.
8. Switch-off the power supply after programming. Be sure that the power has been switched-off before disconnecting the programmer from the target board.

Notes:

- If you see the value –1 in the read field maybe you found a new sw version or you selected the wrong software.

Warnings:

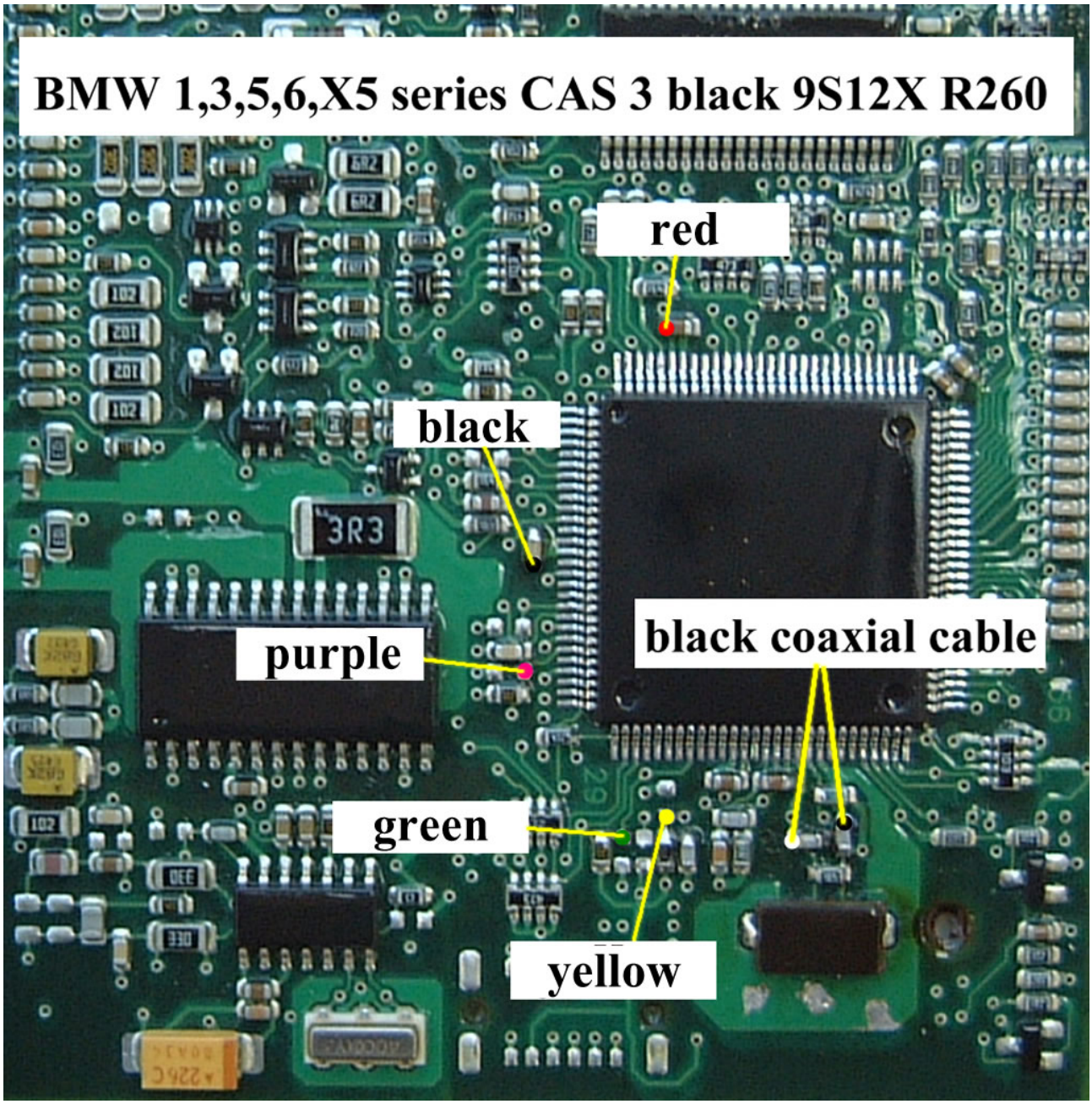
- **Please, do not extend the thick black cable for any reason! If you do so, you will loose the calibration.**

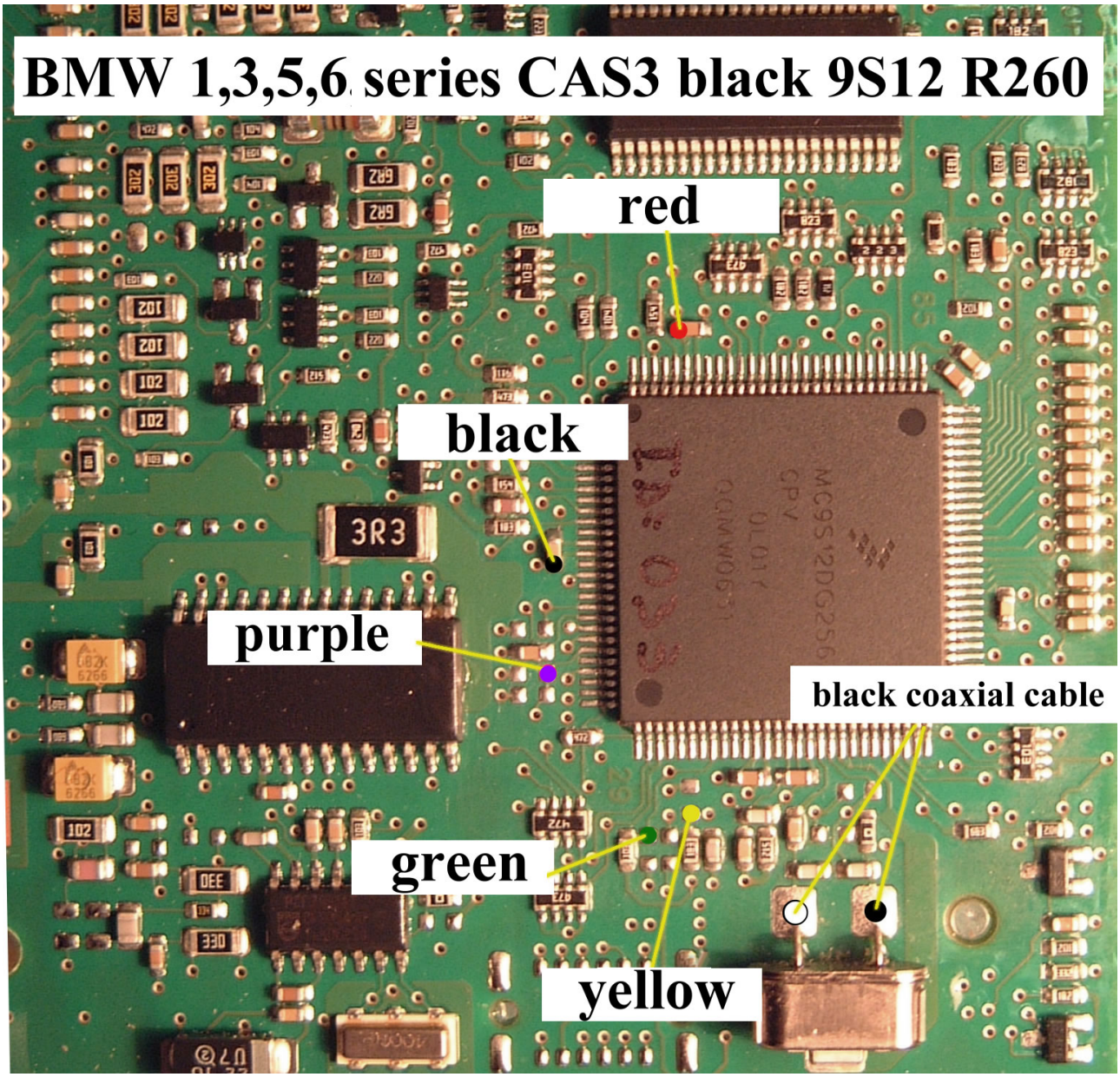
R260S - Software List
(updated 29-Feb-2008)

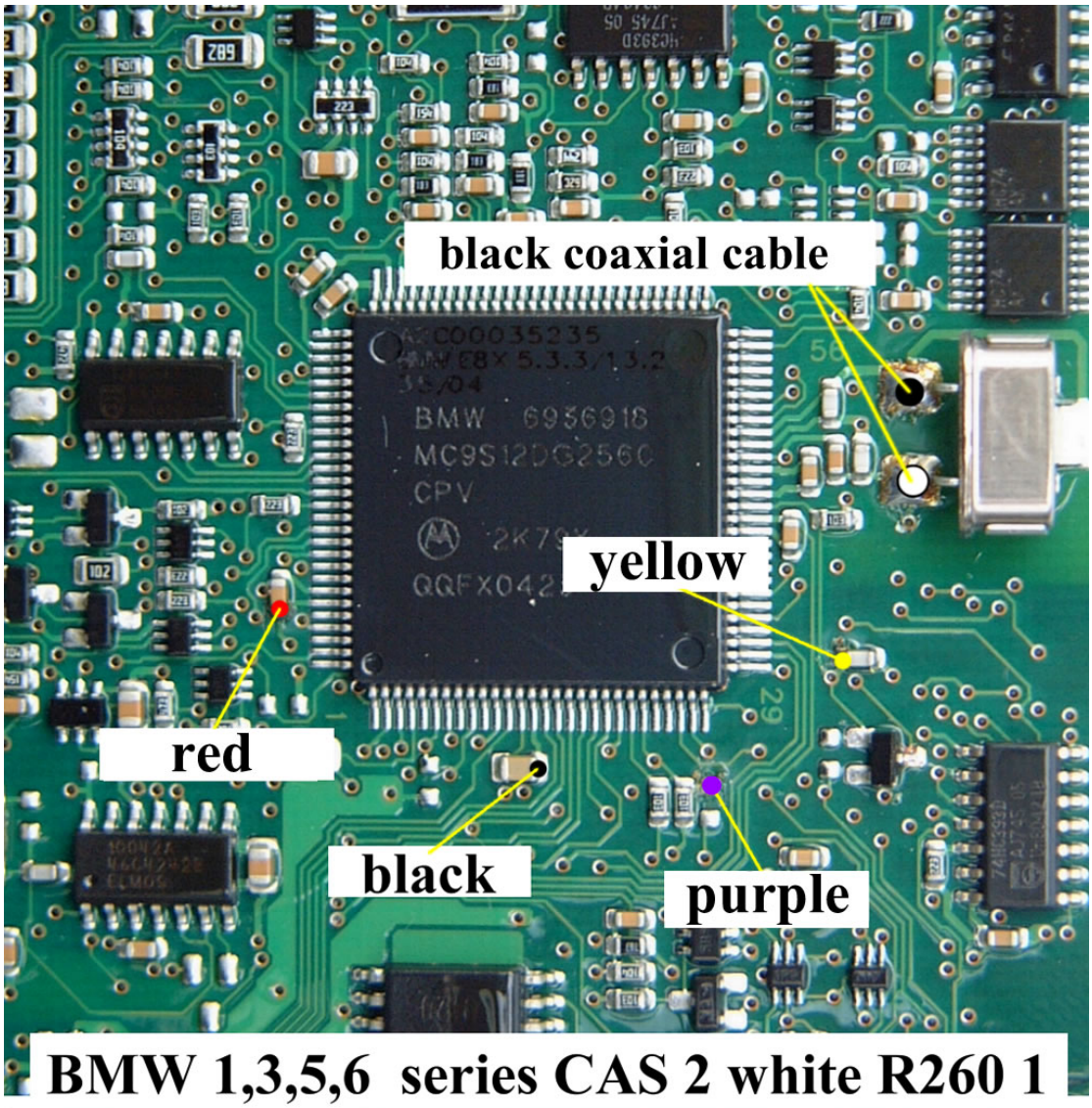
Car models now available for in-circuit programming:

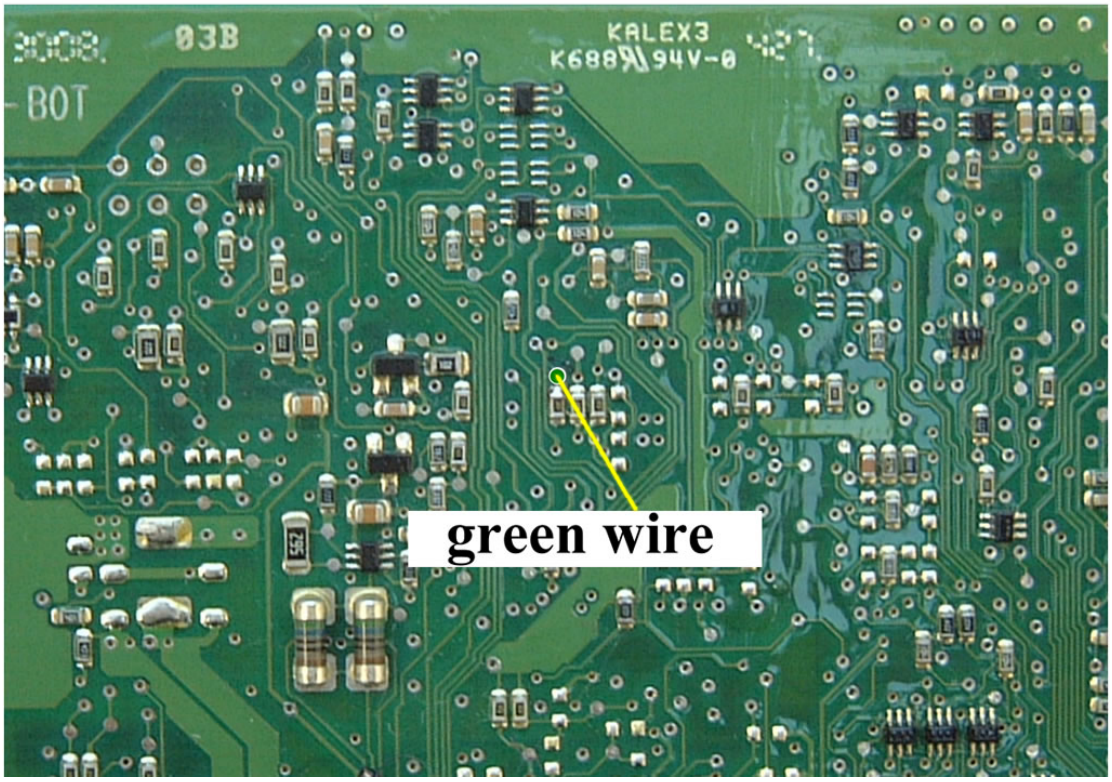
- BMW 1,3,5,6 Series CAS2 White (MC9S12)
- BMW 1,3,5,6,X5 Series CAS3 Black (MC9S12)
- BMW 1,3,5,6,X5 Series CAS3 Black (**MC9S12X**)
- BMW 7 Series CAS 2002 (HC12)
- BMW 7 Series CAS 2005 (MC9S12)
- BMW X3/X5 EWS4 (MC9S12) *
- Ford Mustang 2007 (MC9S12)
- Landrover Freelander 2002 (HC12)
- Landrover Freelander 2004 (HC12)
- Mercedes A-Class 2004 Key Module (MC9S12)
- Mercedes C/CLK C209 ZGW (MC9S12)
- Mercedes E/C W211 Key Module (HC12)
- Mercedes E/C/CLK/SLK W211 Key Module (MC9S12)
- Mercedes ML/R W164 Key Module (MC9S12)
- Mercedes S/SL EZS R230 (MC9S12)
- Mercedes Sprinter EZS (MC9S12)
- Mini One/Cooper Dashboard (HC12)
- Mini One/Cooper EWS4 (MC9S12)
- Mini One/Cooper CAS3 Black (**MC9S12X**)
- Volkswagen Crafter EZS (MC9S12)

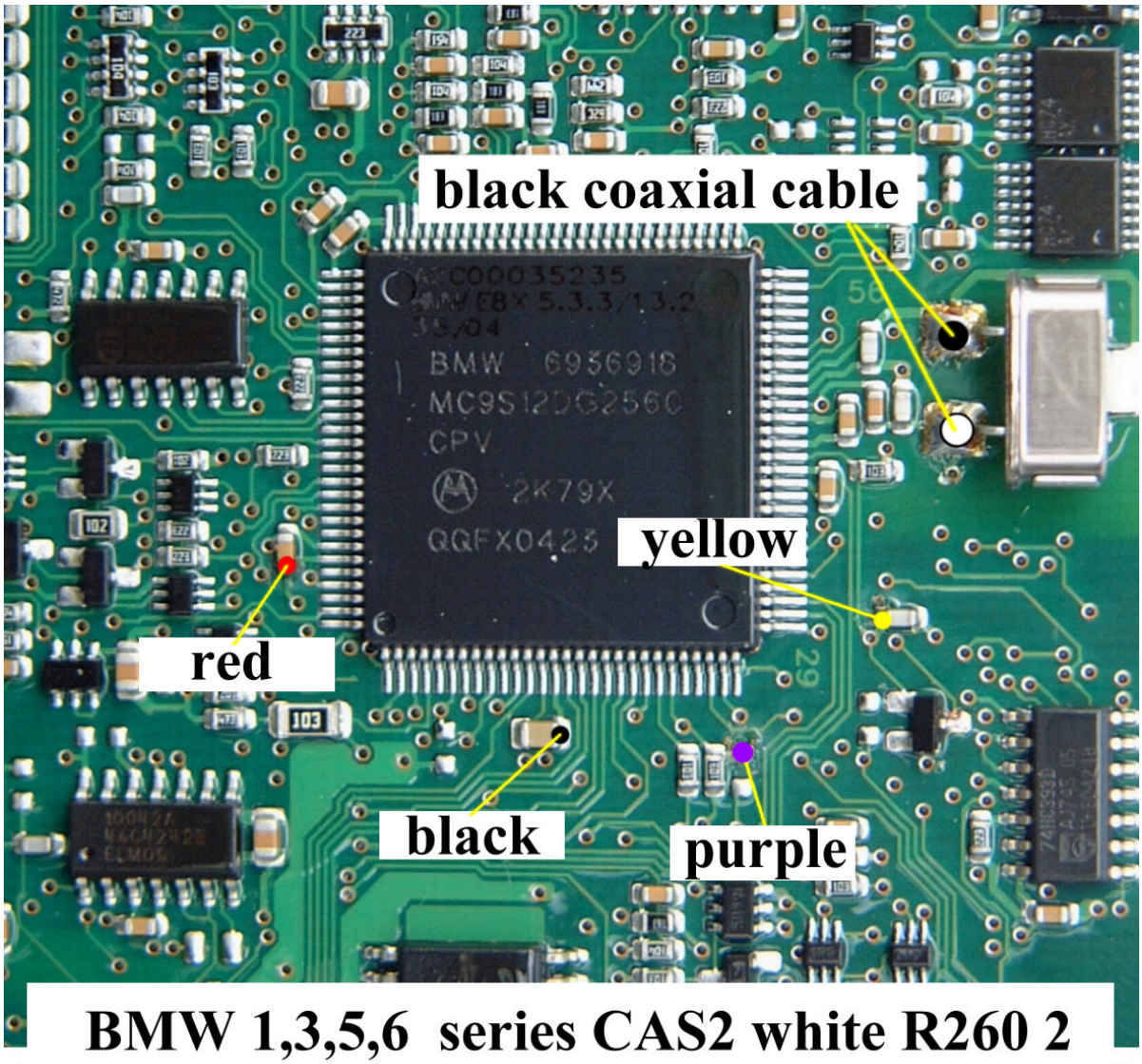
* *Includes a new version found in the year 2007.*

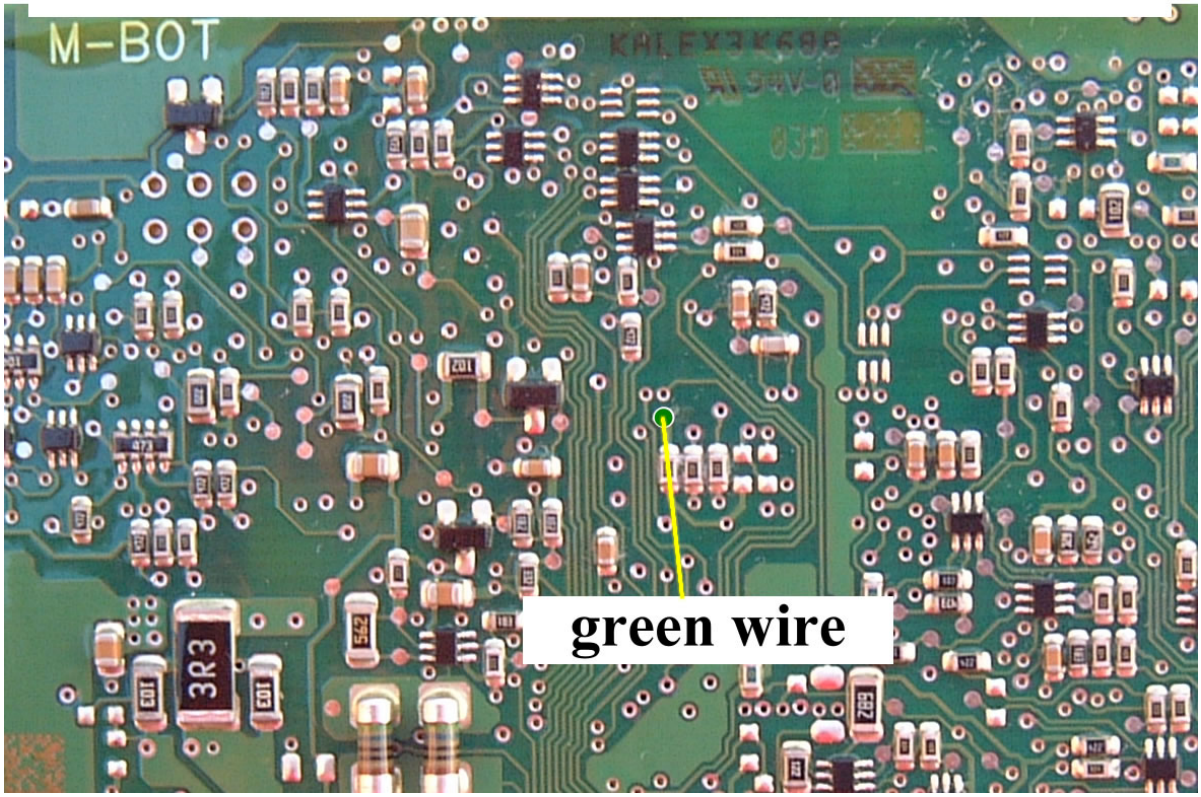

BMW 1,3,5,6,X5 series CAS 3 black 9S12X R260
red
black
purple
black coaxial cable
green
yellow

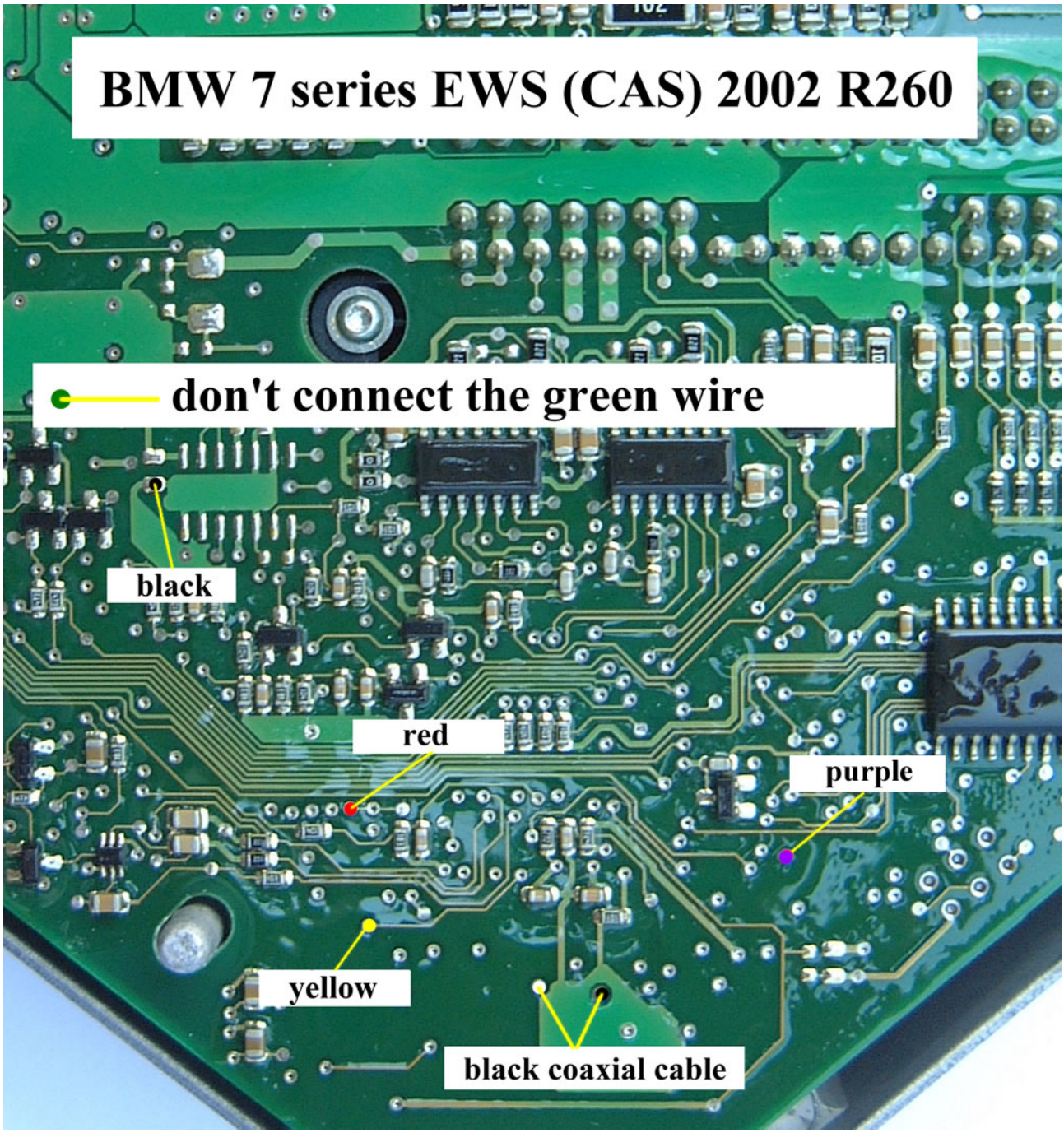

BMW 1,3,5,6 series CAS3 black 9S12 R260
red
black
purple
black coaxial cable
green
yellow

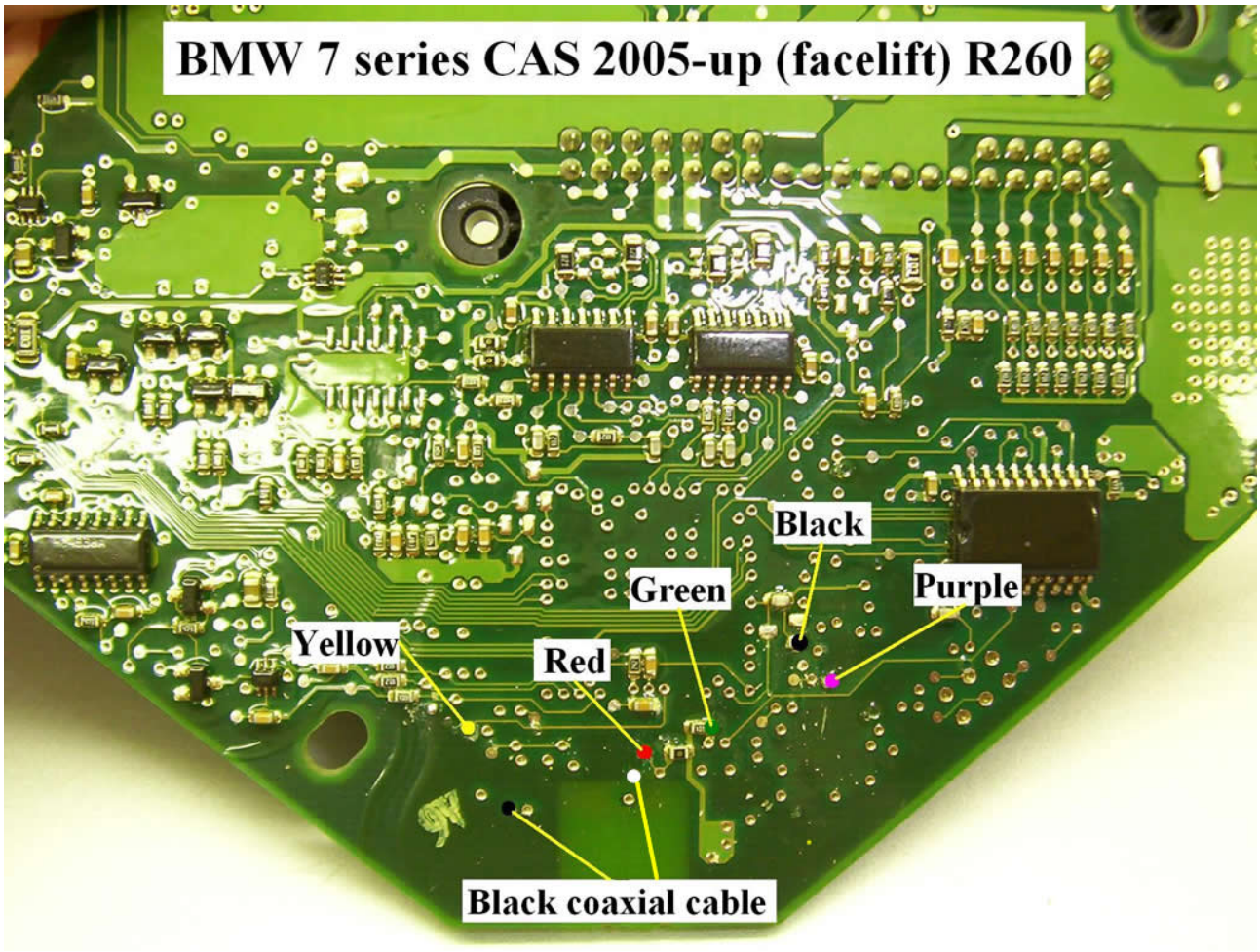

black coaxial cable
yellow
red
black
purple
BMW 6956918
MC9S12DG256C
CPV
BMW 1,3,5,6 series CAS 2 white R260 1

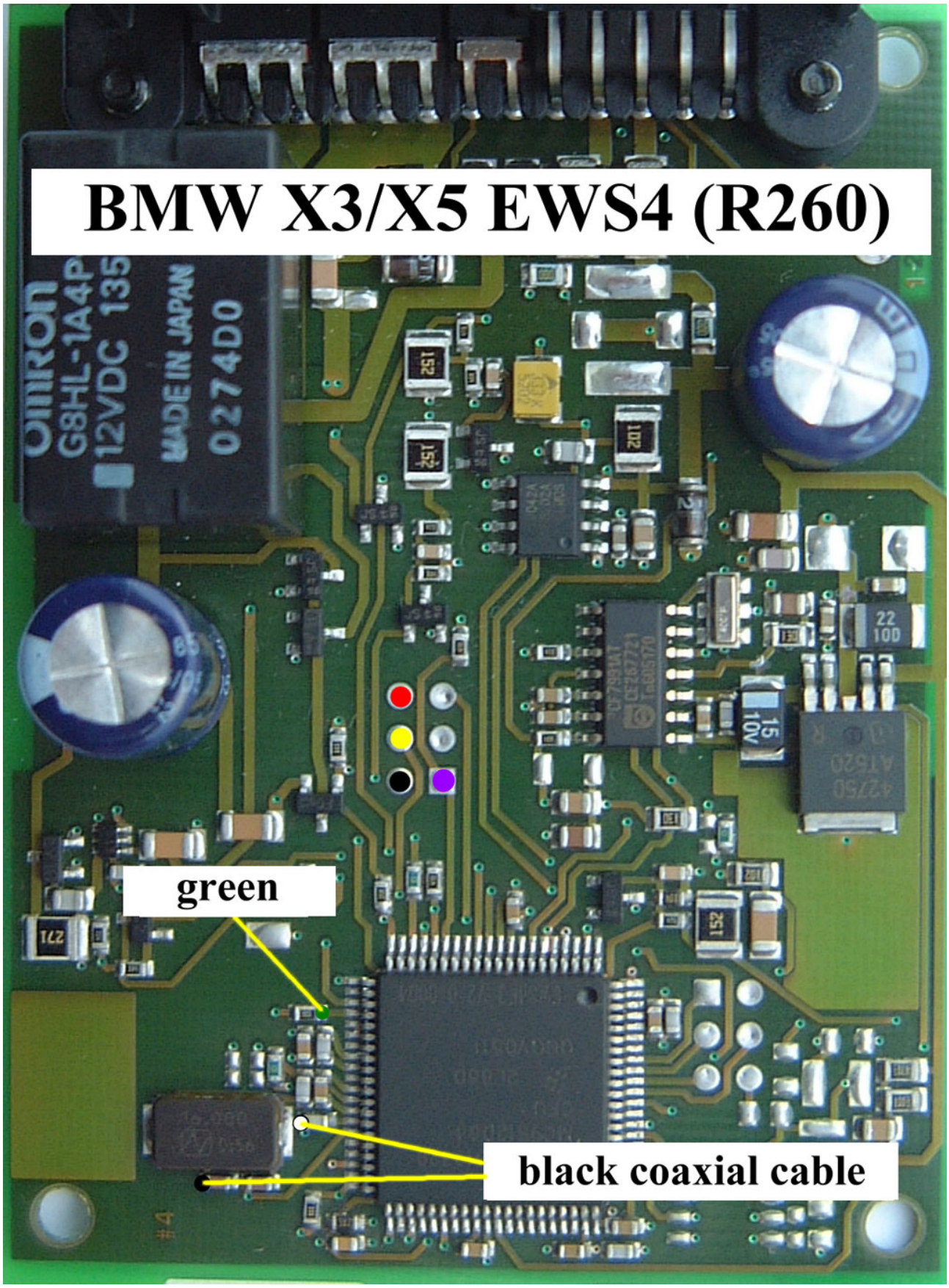

03B
KALEX3
BOT
green wire

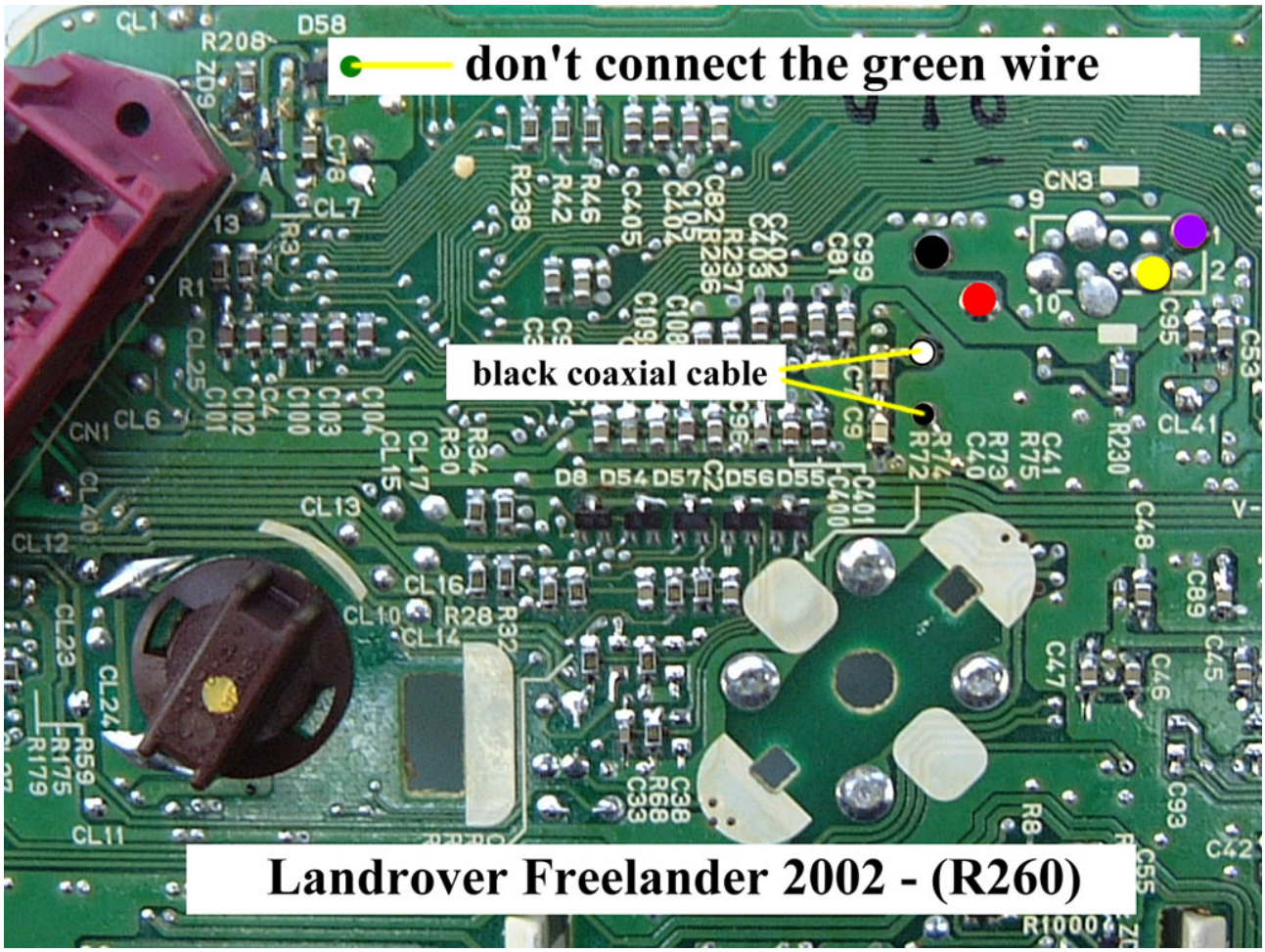

black coaxial cable
yellow
red
black
purple
BMW 1,3,5,6 series CAS2 white R260 2

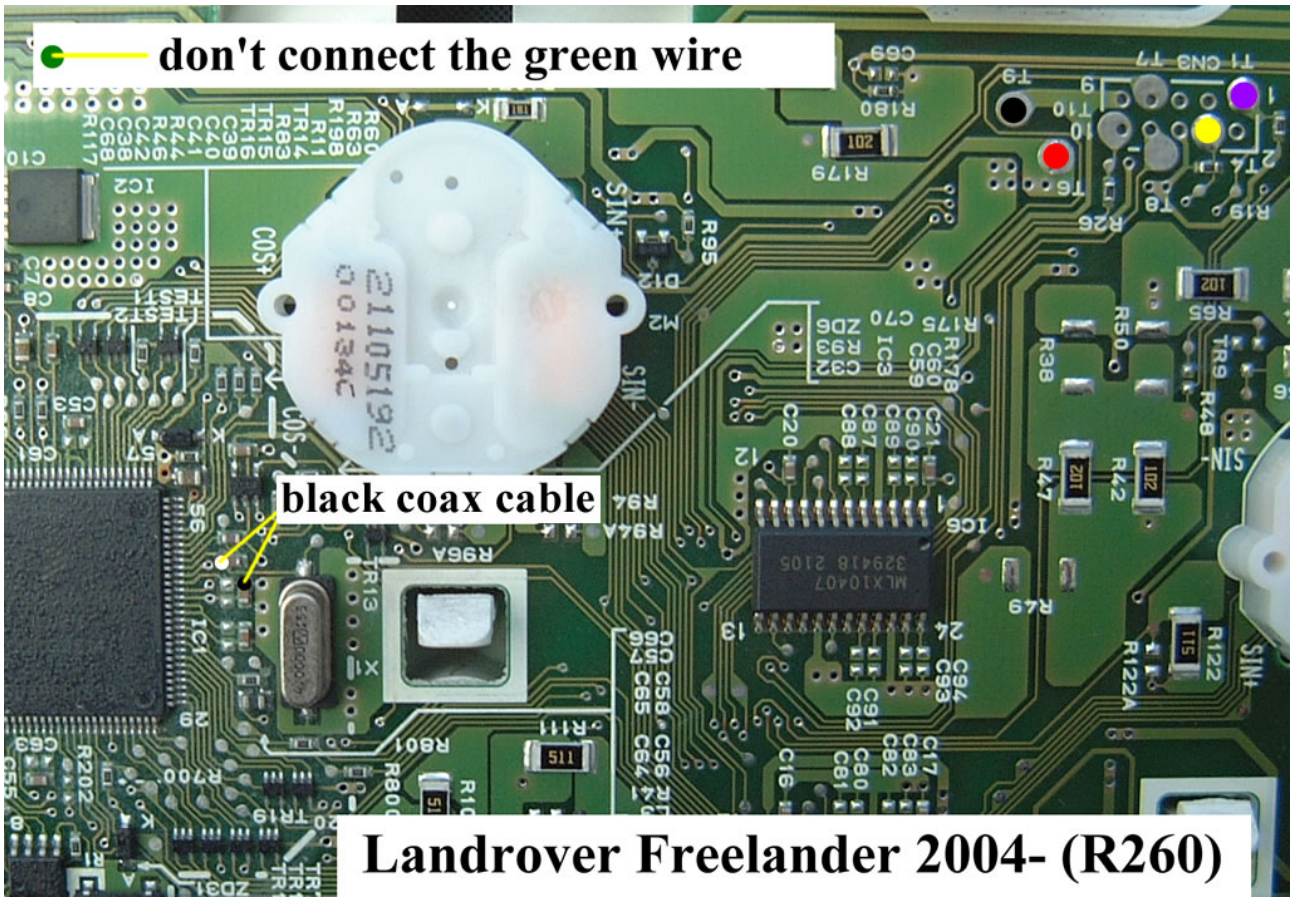

M-BOT
green wire

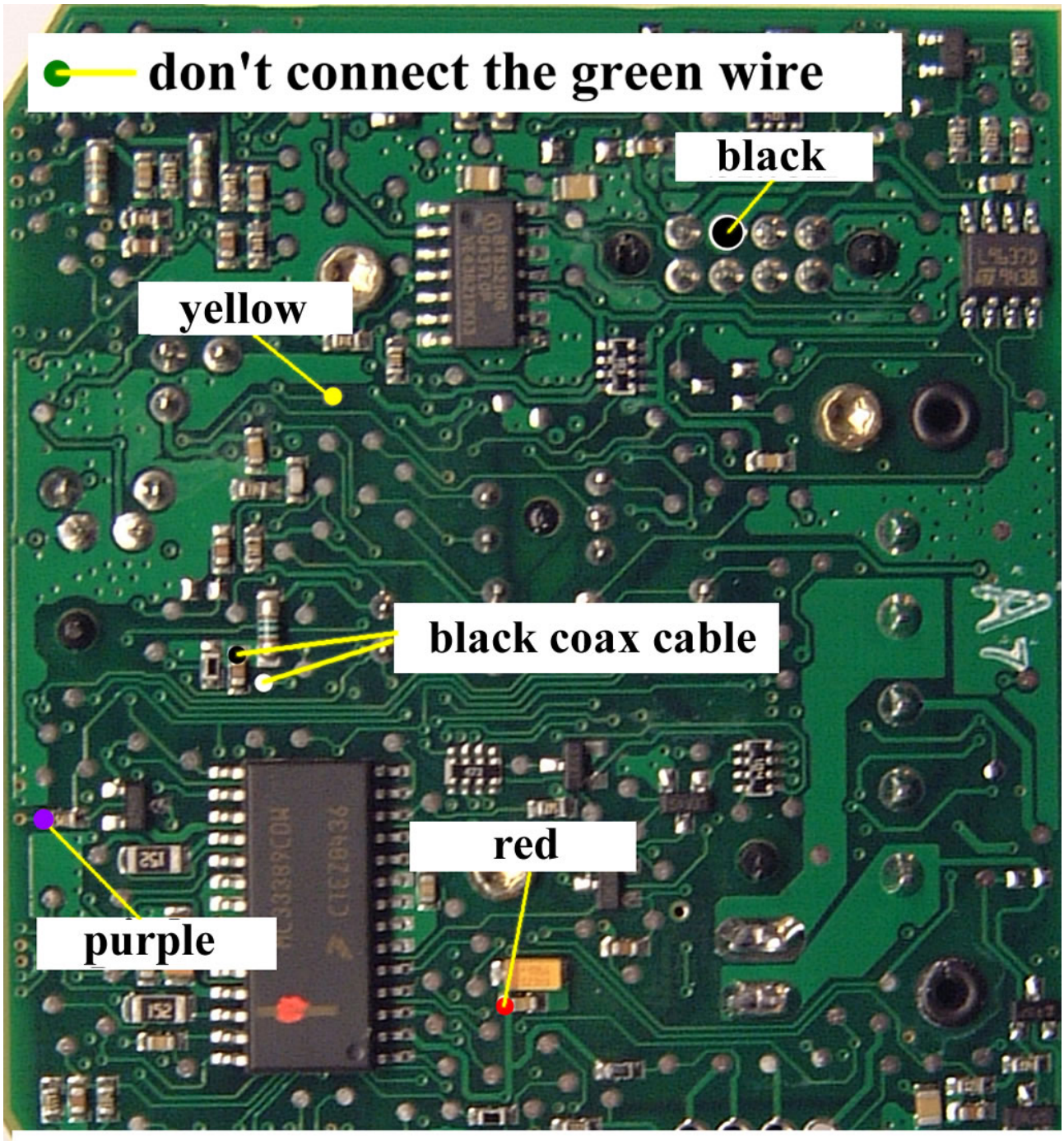

BMW 7 series EWS (CAS) 2002 R260
don't connect the green wire
black
red
purple
yellow
black coaxial cable


BMW 7 series CAS 2005-up (facelift) R260
Black
Green
Purple
Yellow
Red
Black coaxial cable

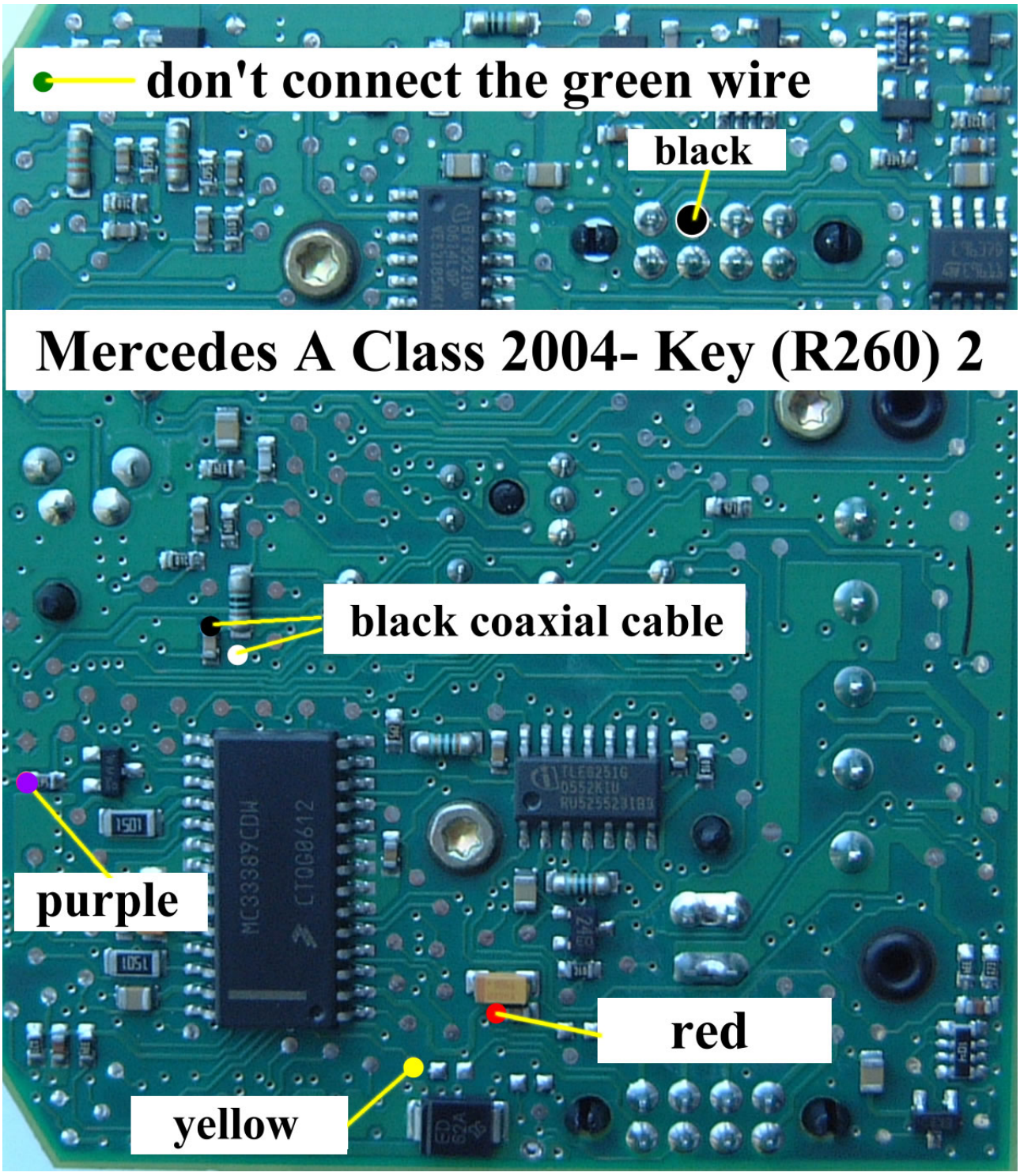

BMW X3/X5 EWS4 (R260)
OMRON
G8HL-1A4P
12VDC 135
MADE IN JAPAN
0274D0
green
black coaxial cable

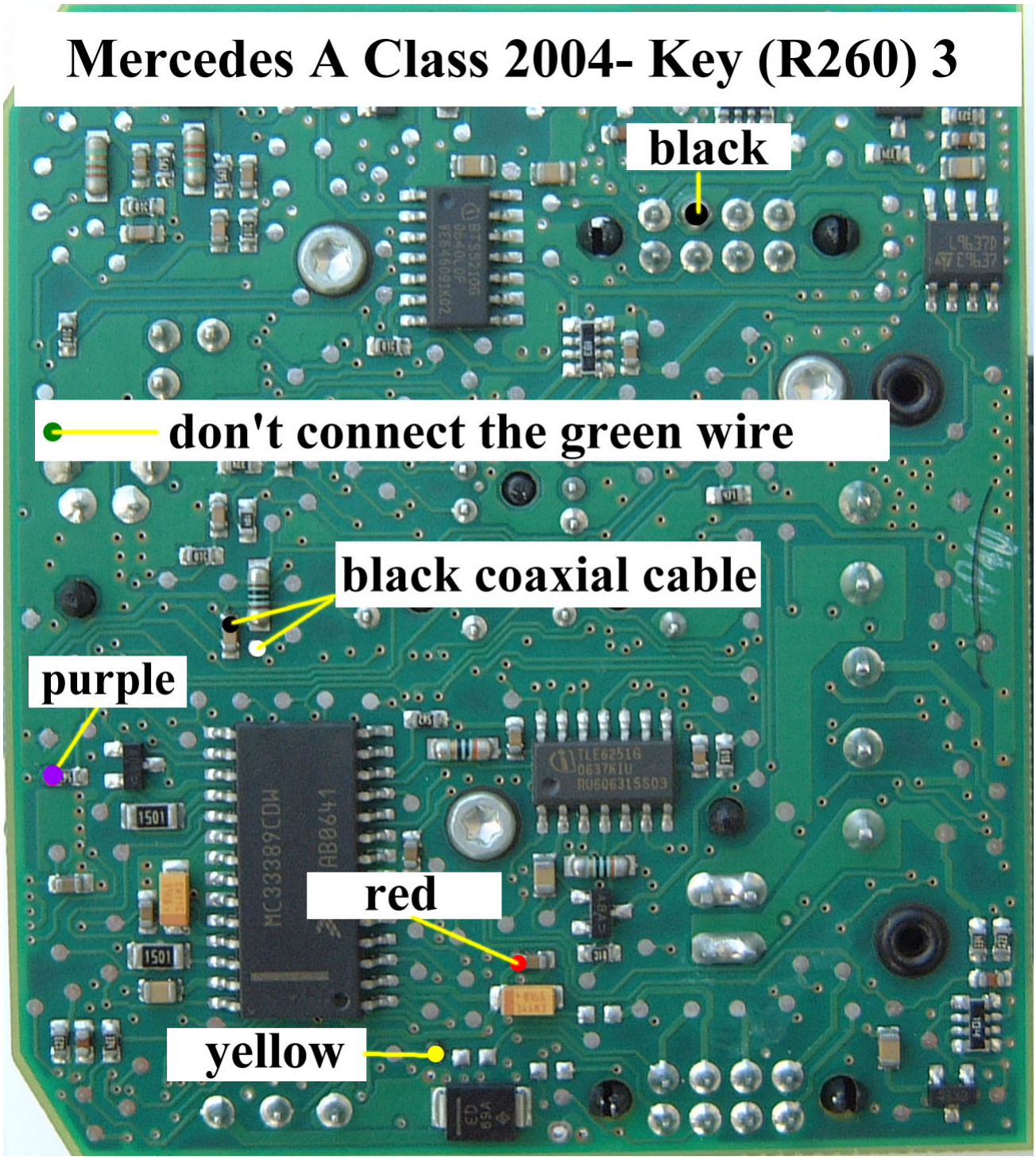

don't connect the green wire
black coaxial cable
Landrover Freelander 2002 - (R260)

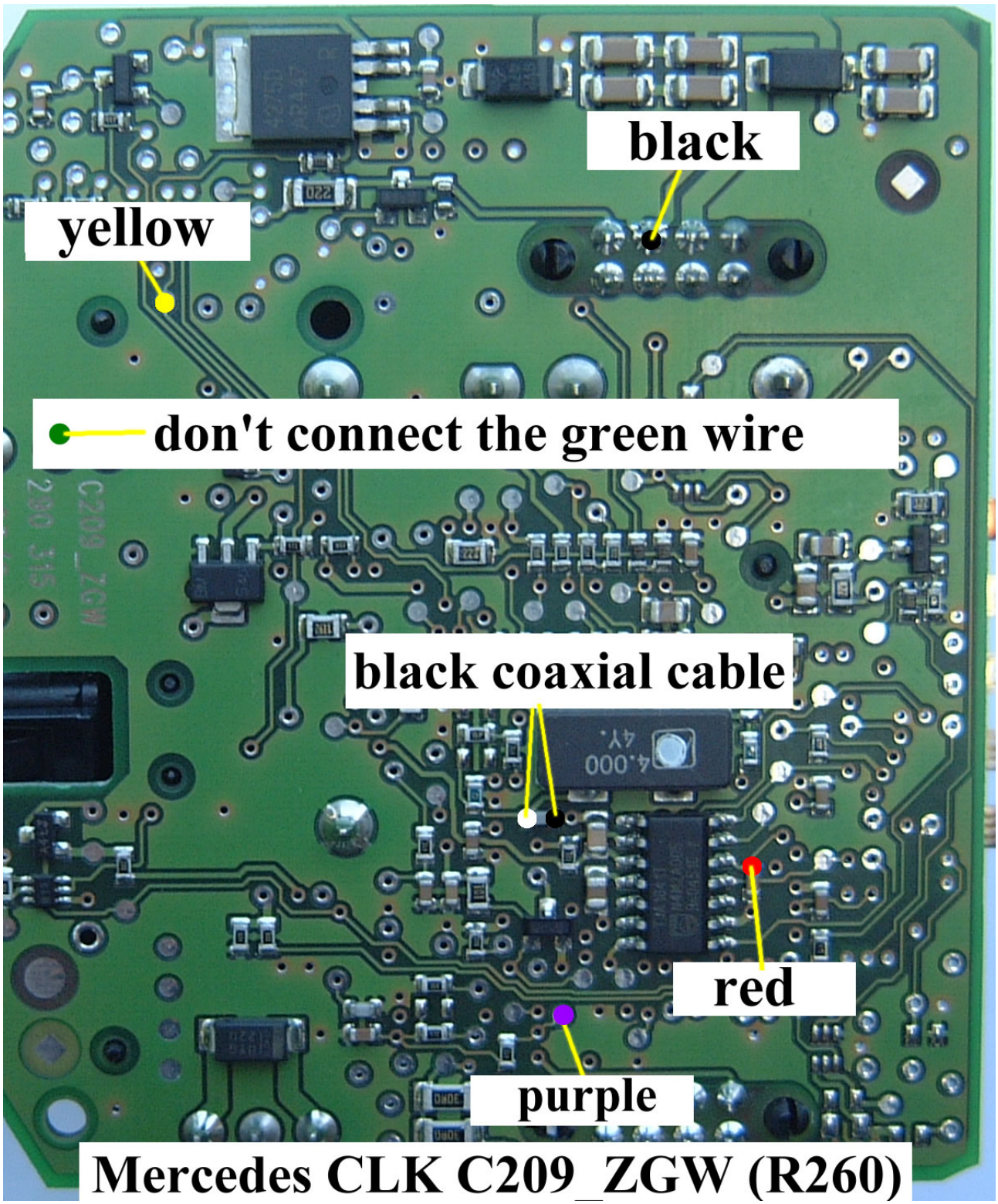

don't connect the green wire
black coax cable
Landrover Freelander 2004- (R260)

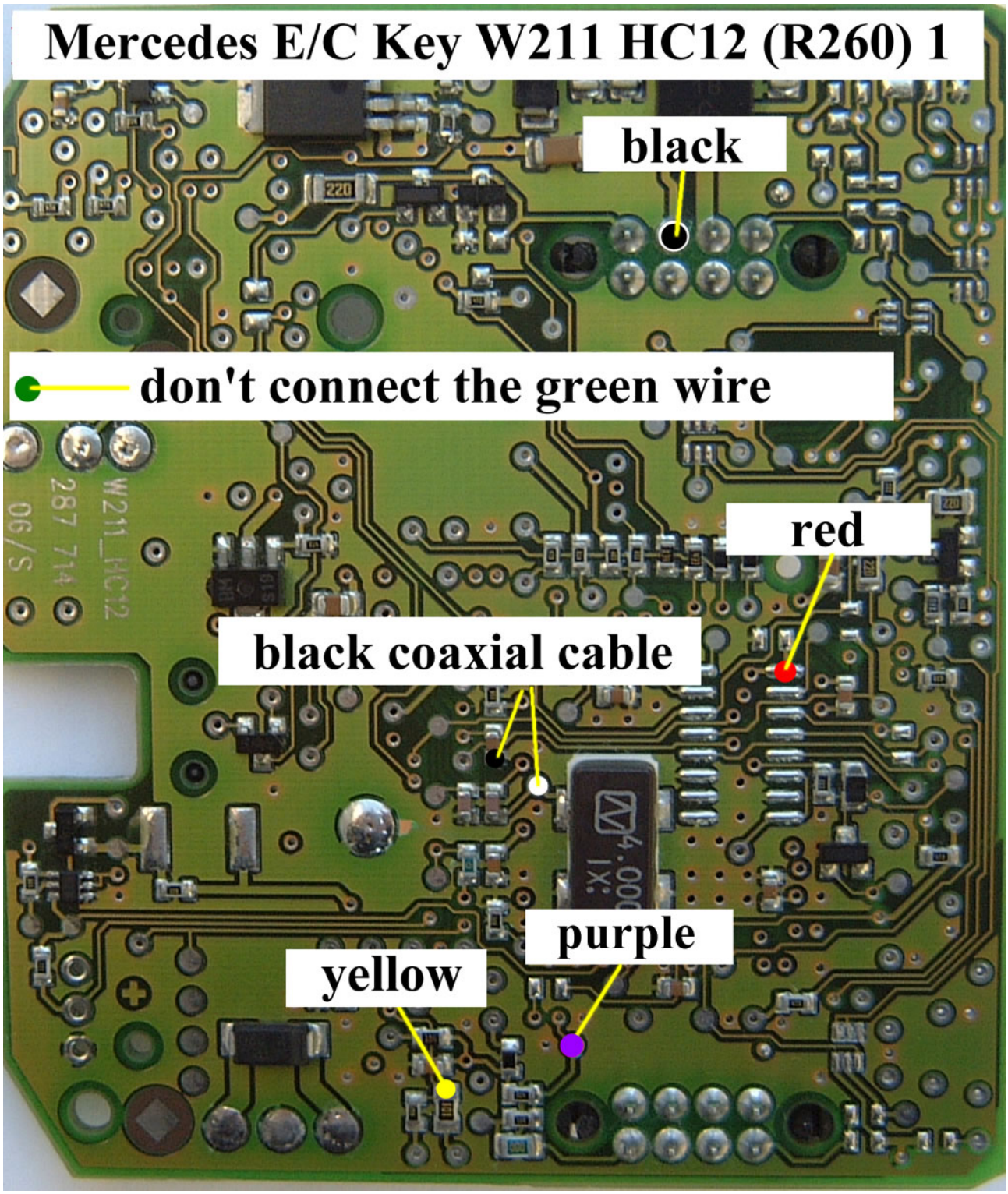


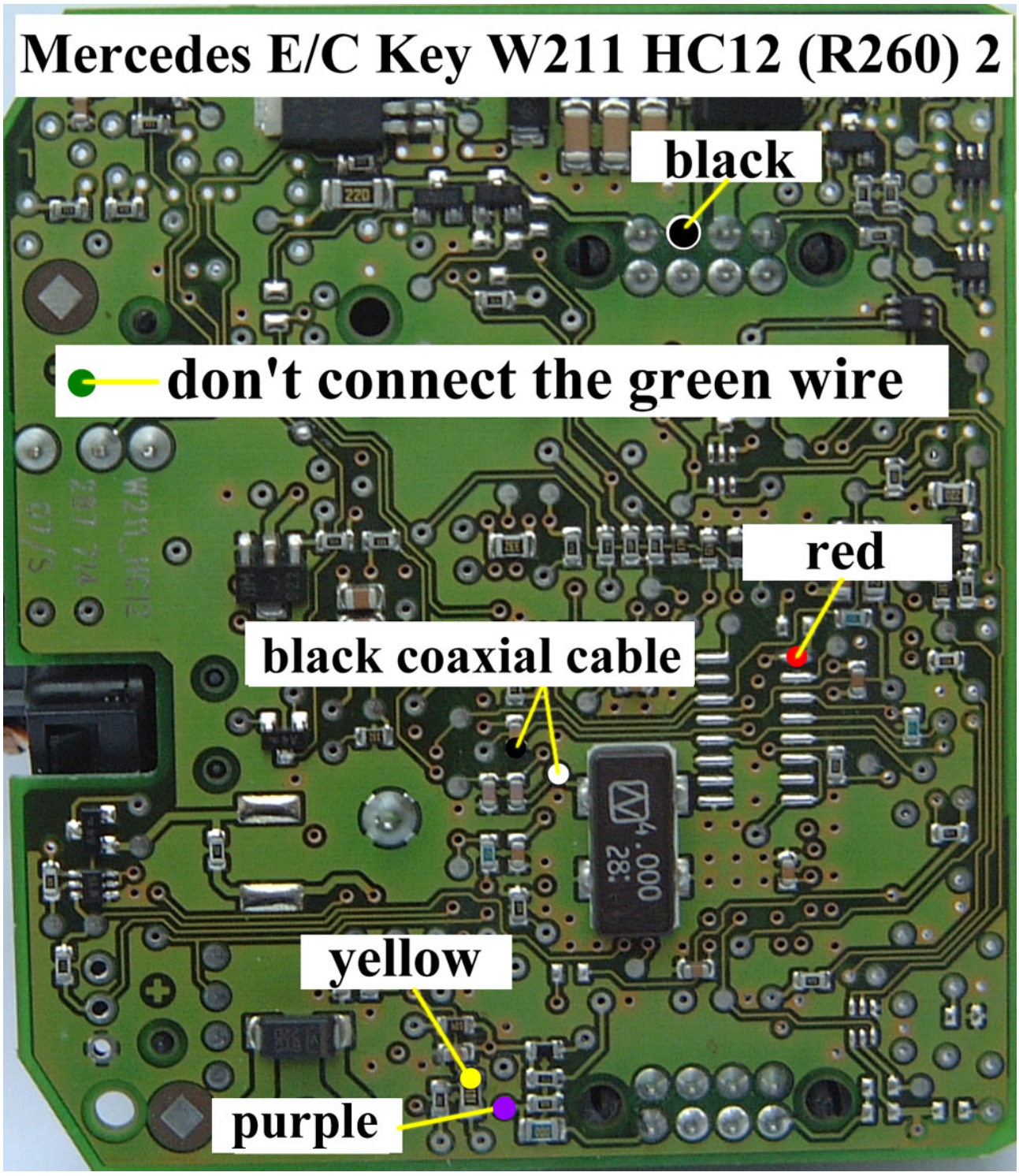
MERCEDES A Class 2004- Key (R260) 1

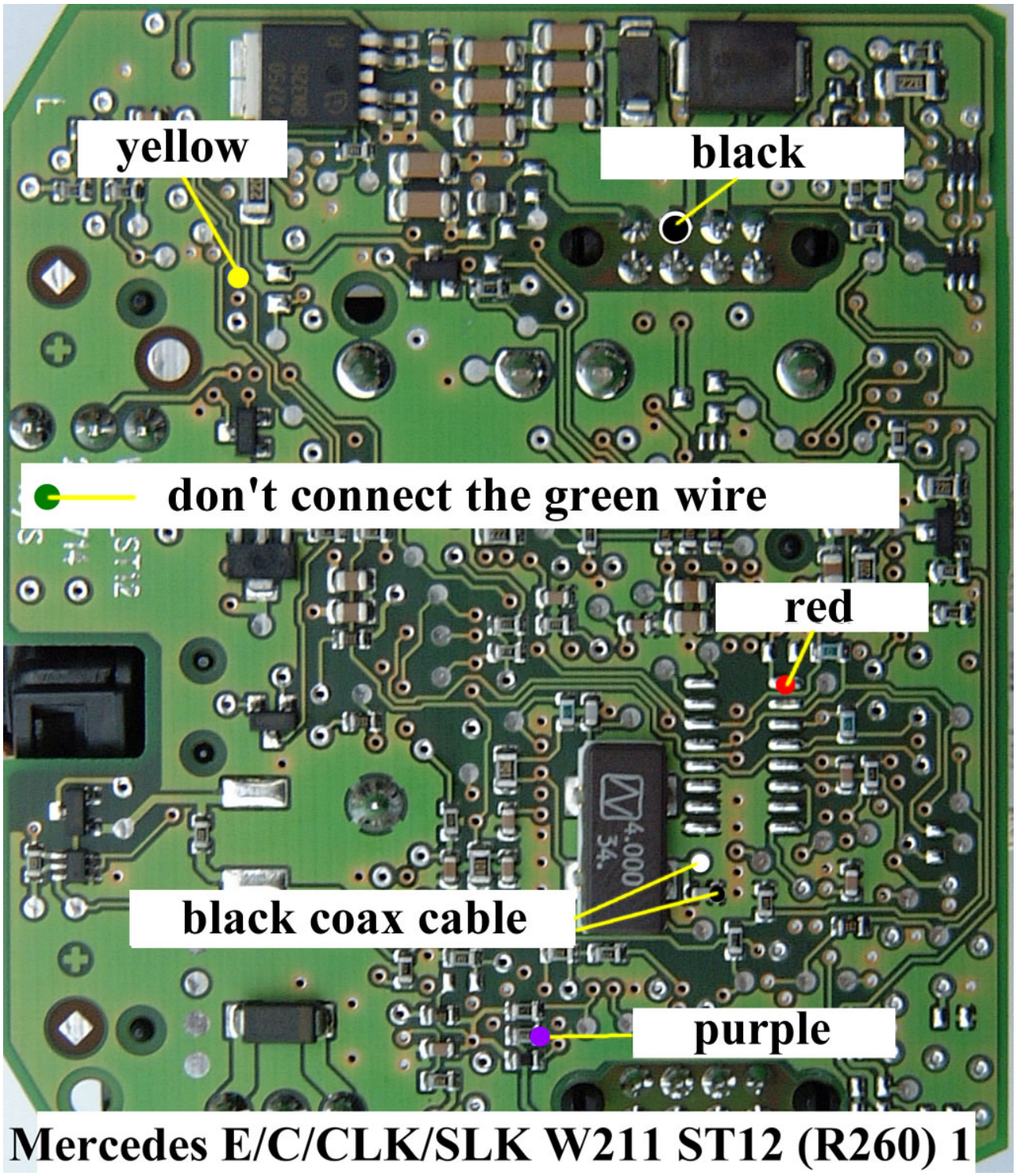

don't connect the green wire
black
Mercedes A Class 2004- Key (R260) 2
black coaxial cable
purple
red
yellow

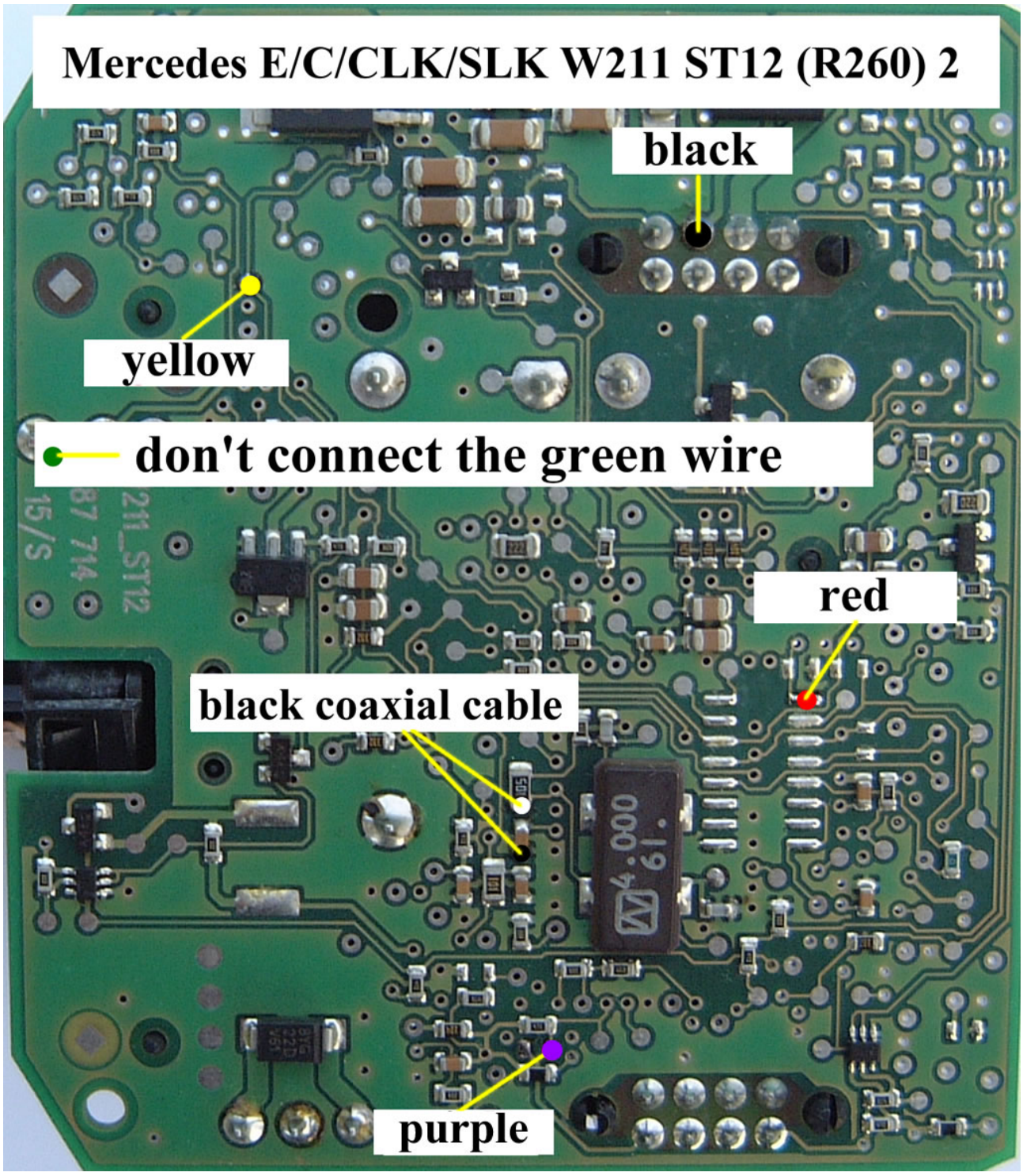

Mercedes A Class 2004- Key (R260) 3
black
don't connect the green wire
black coaxial cable
purple
red
yellow

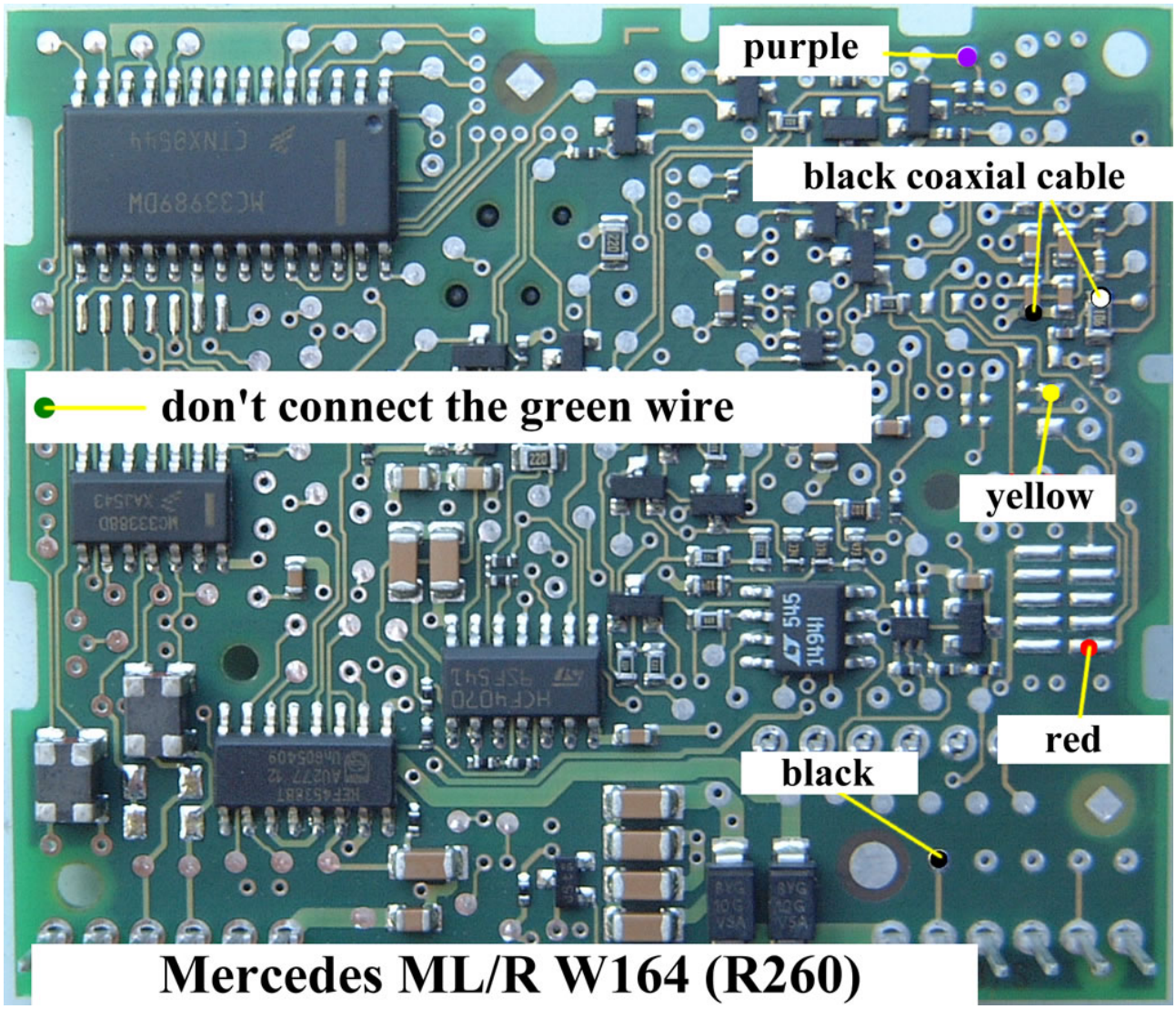

black
yellow
don't connect the green wire
black coaxial cable
red
purple
Mercedes CLK C209_ZGW (R260)

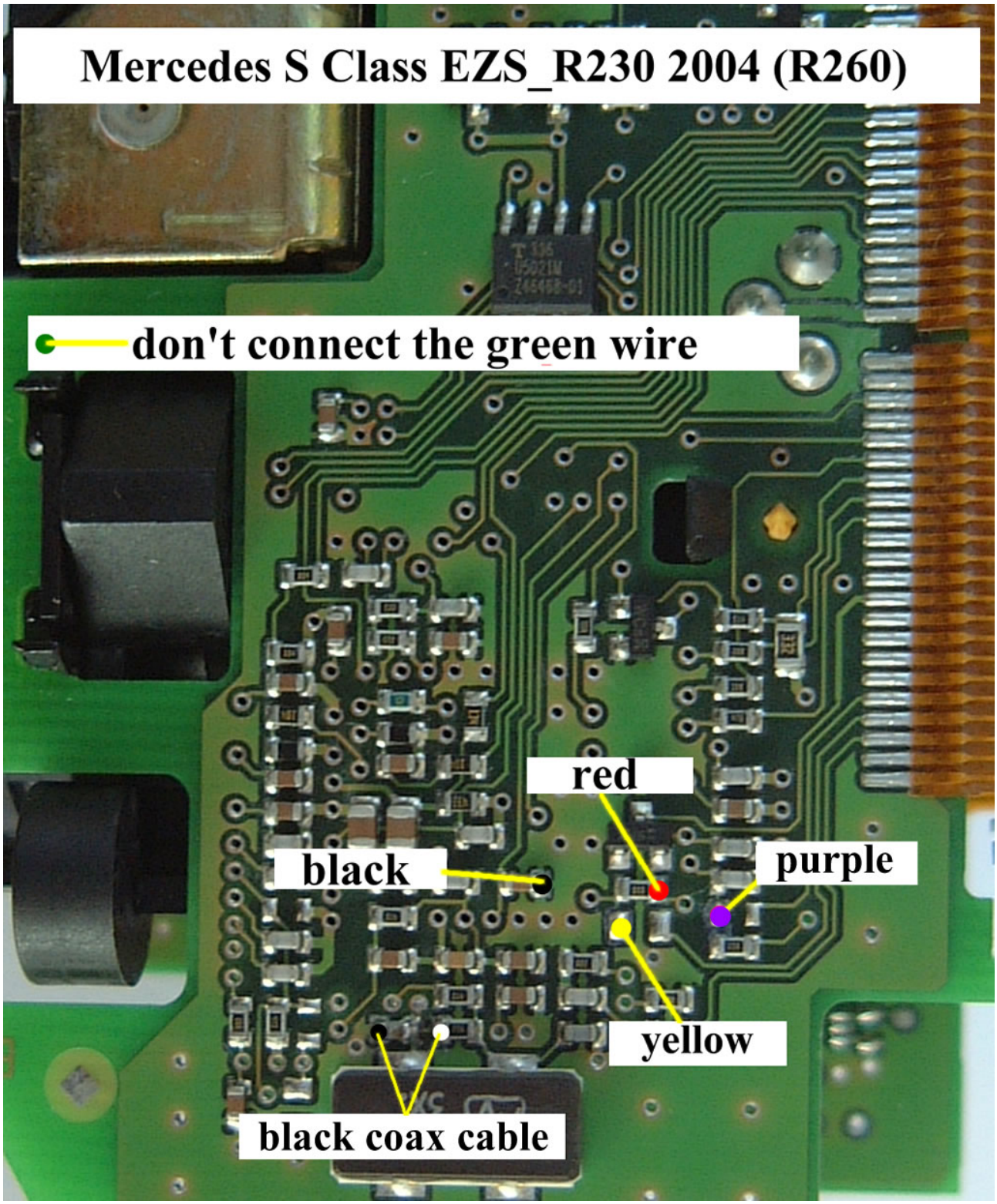

Mercedes E/C Key W211 HC12 (R260) 1
black
don't connect the green wire
red
black coaxial cable
purple
yellow

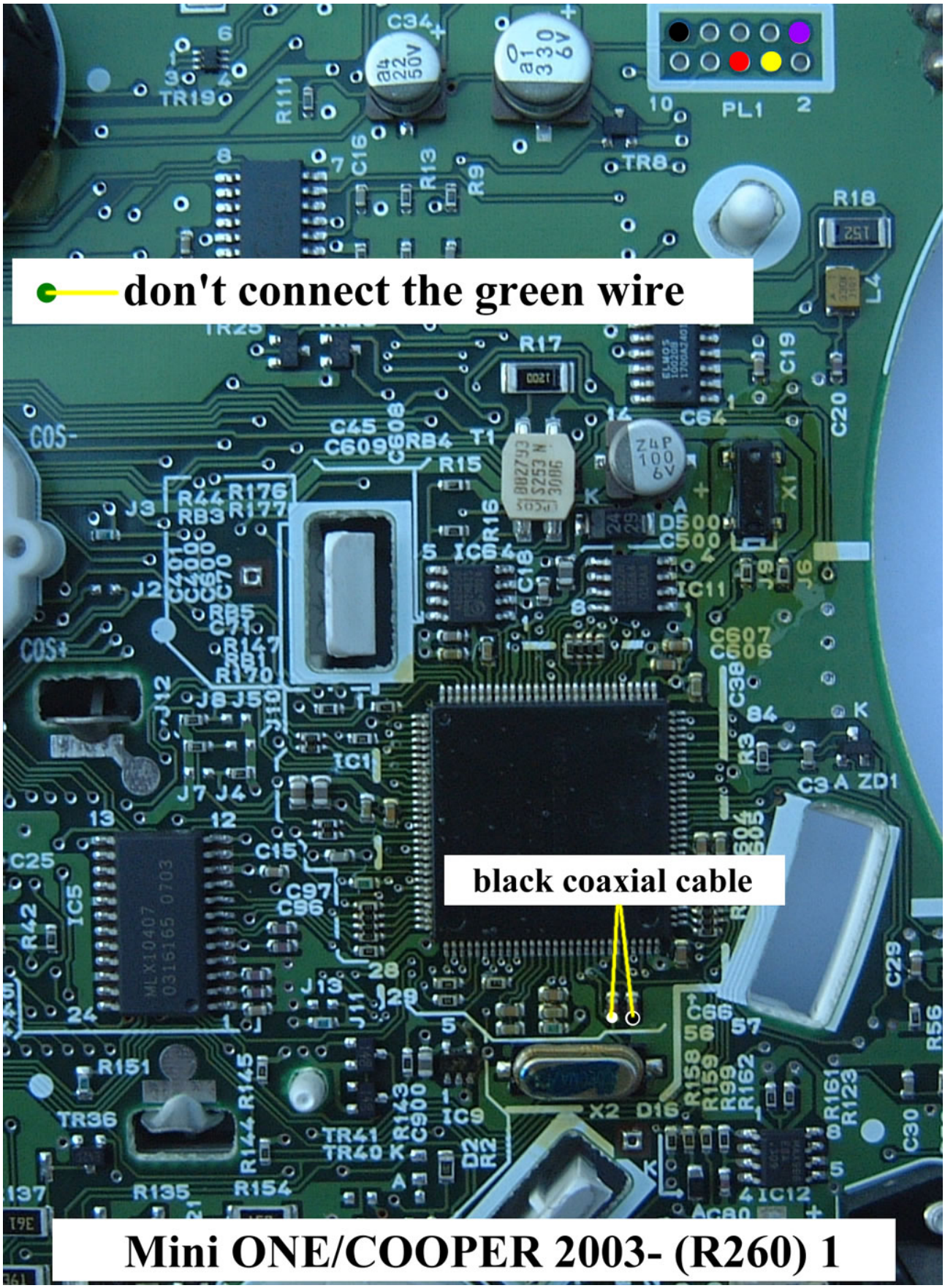

Mercedes E/C Key W211 HC12 (R260) 2
black
don't connect the green wire
red
black coaxial cable
yellow
purple

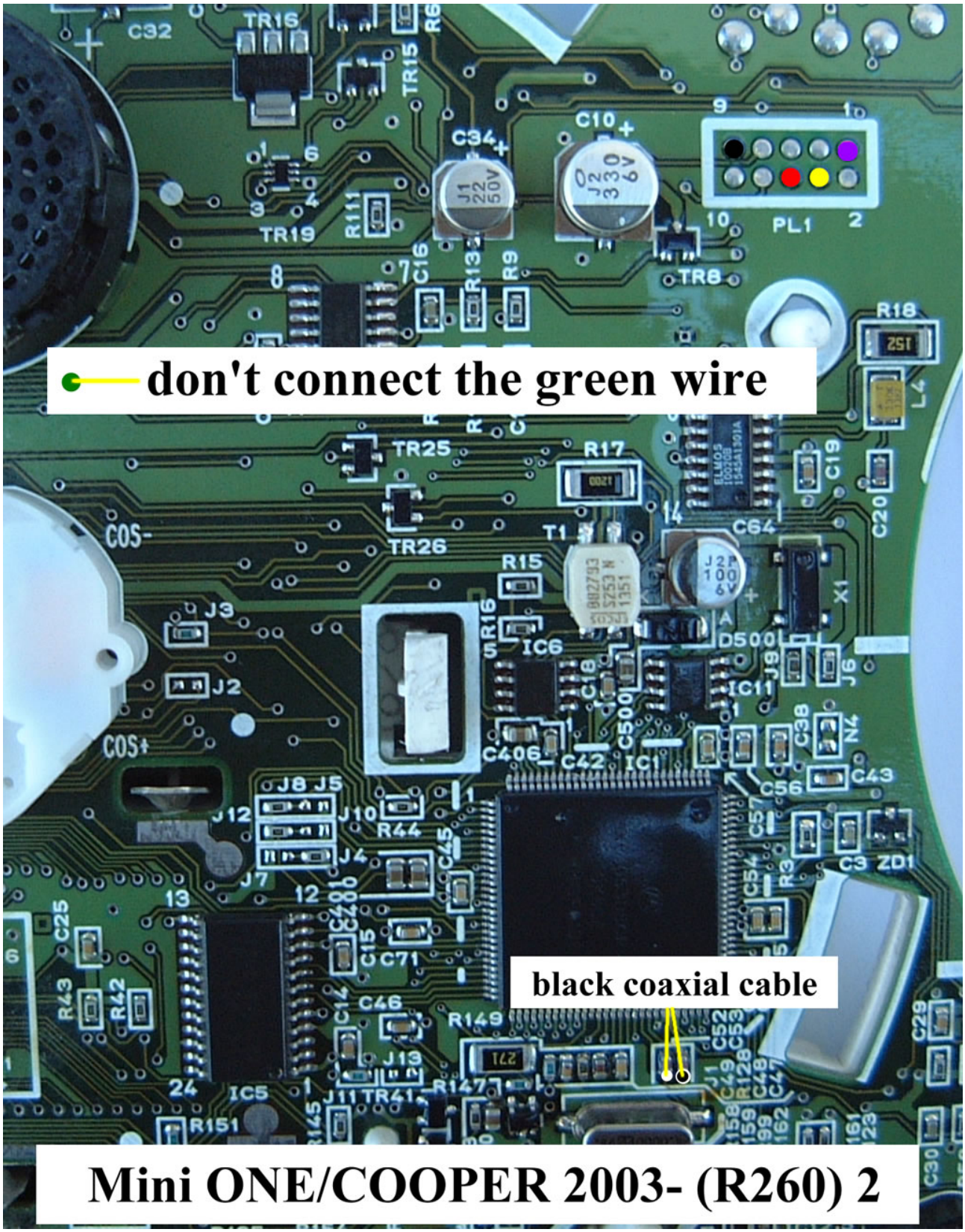

yellow
black
don't connect the green wire
red
black coax cable
purple
Mercedes E/C/CLK/SLK W211 ST12 (R260) 1


Mercedes E/C/CLK/SLK W211 ST12 (R260) 2
black
yellow
don't connect the green wire
red
black coaxial cable
purple

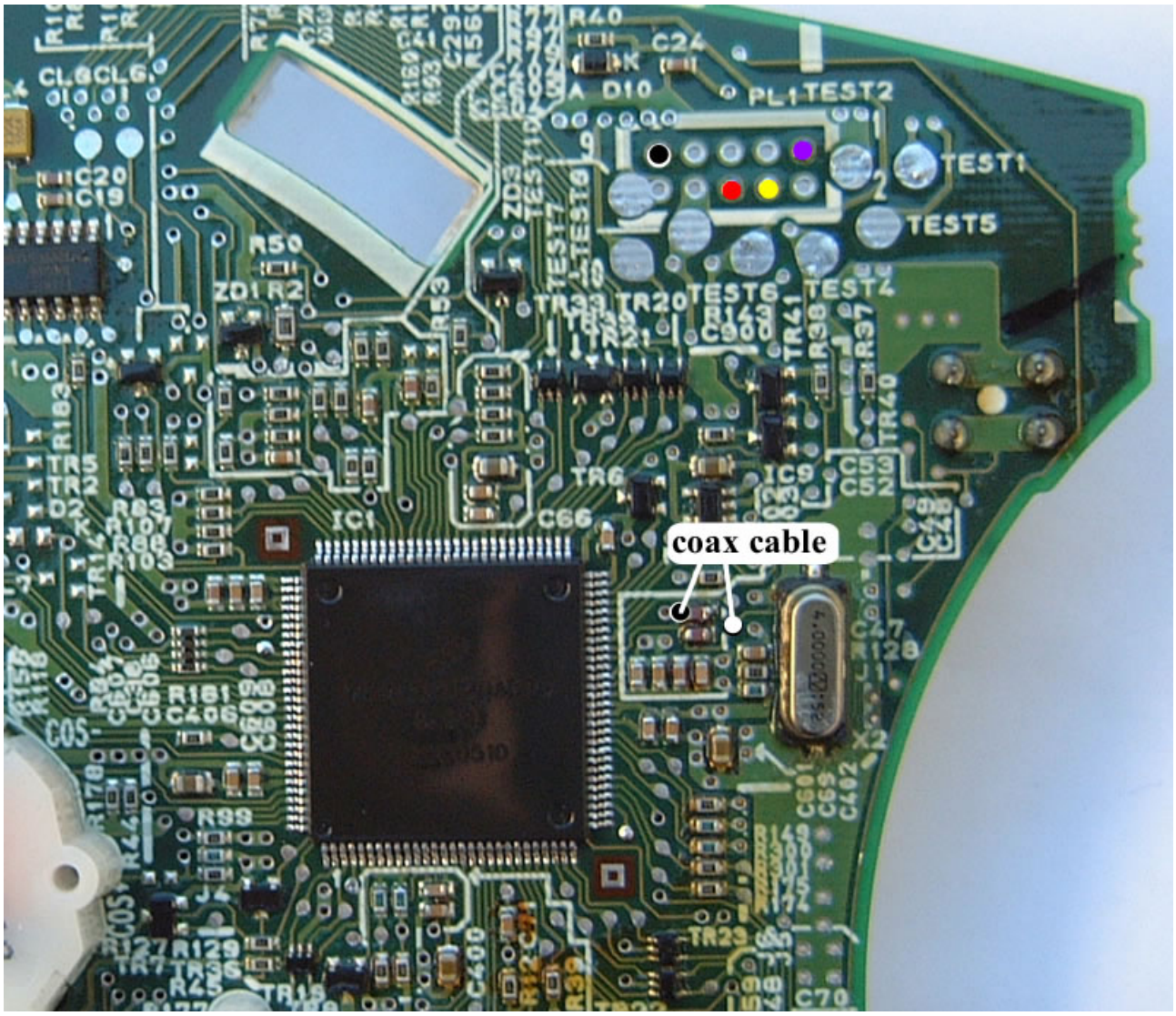

purple
black coaxial cable
don't connect the green wire
yellow
red
black
Mercedes ML/R W164 (R260)

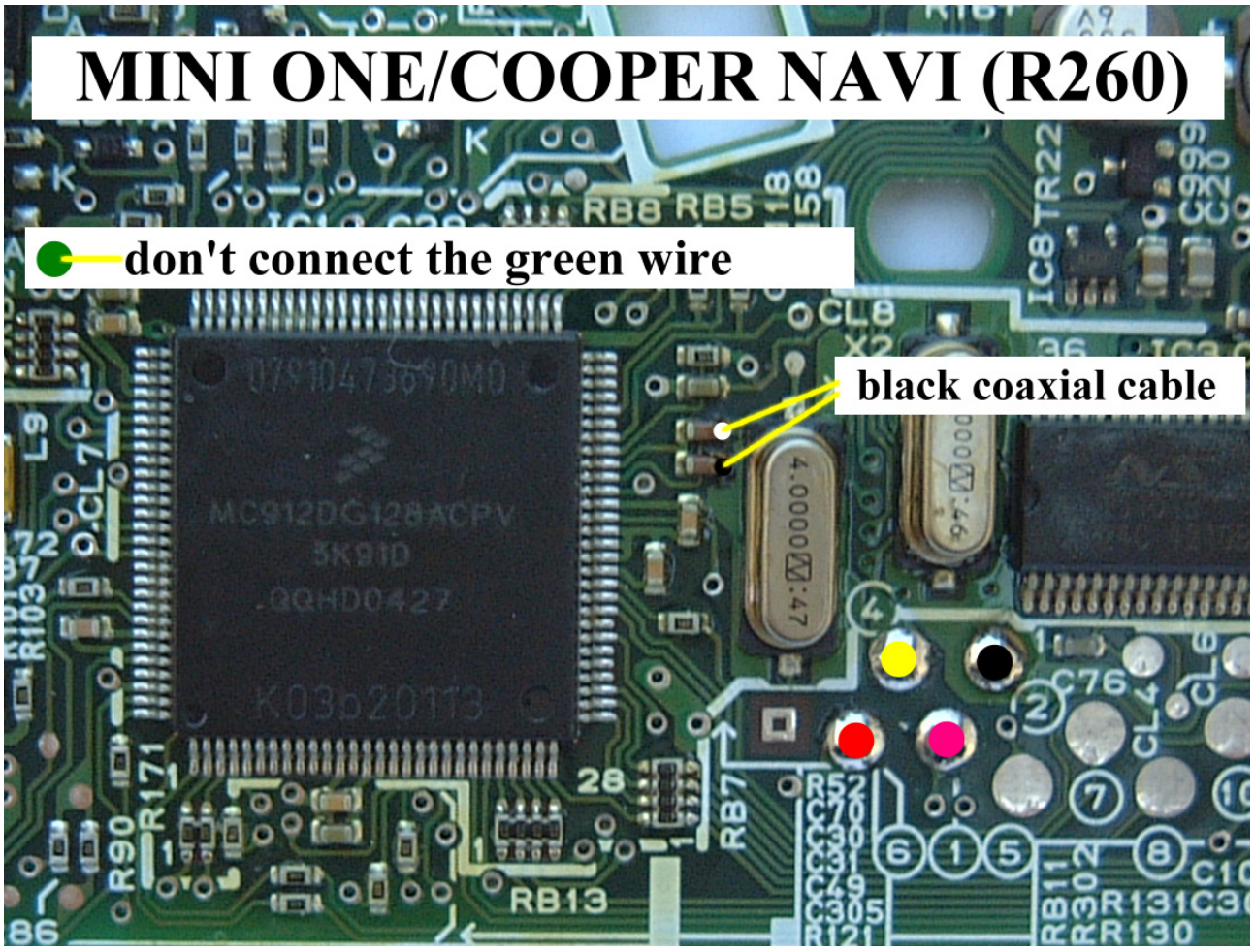

Mercedes S Class EZS_R230 2004 (R260)
don't connect the green wire
red
black
purple
yellow
black coax cable

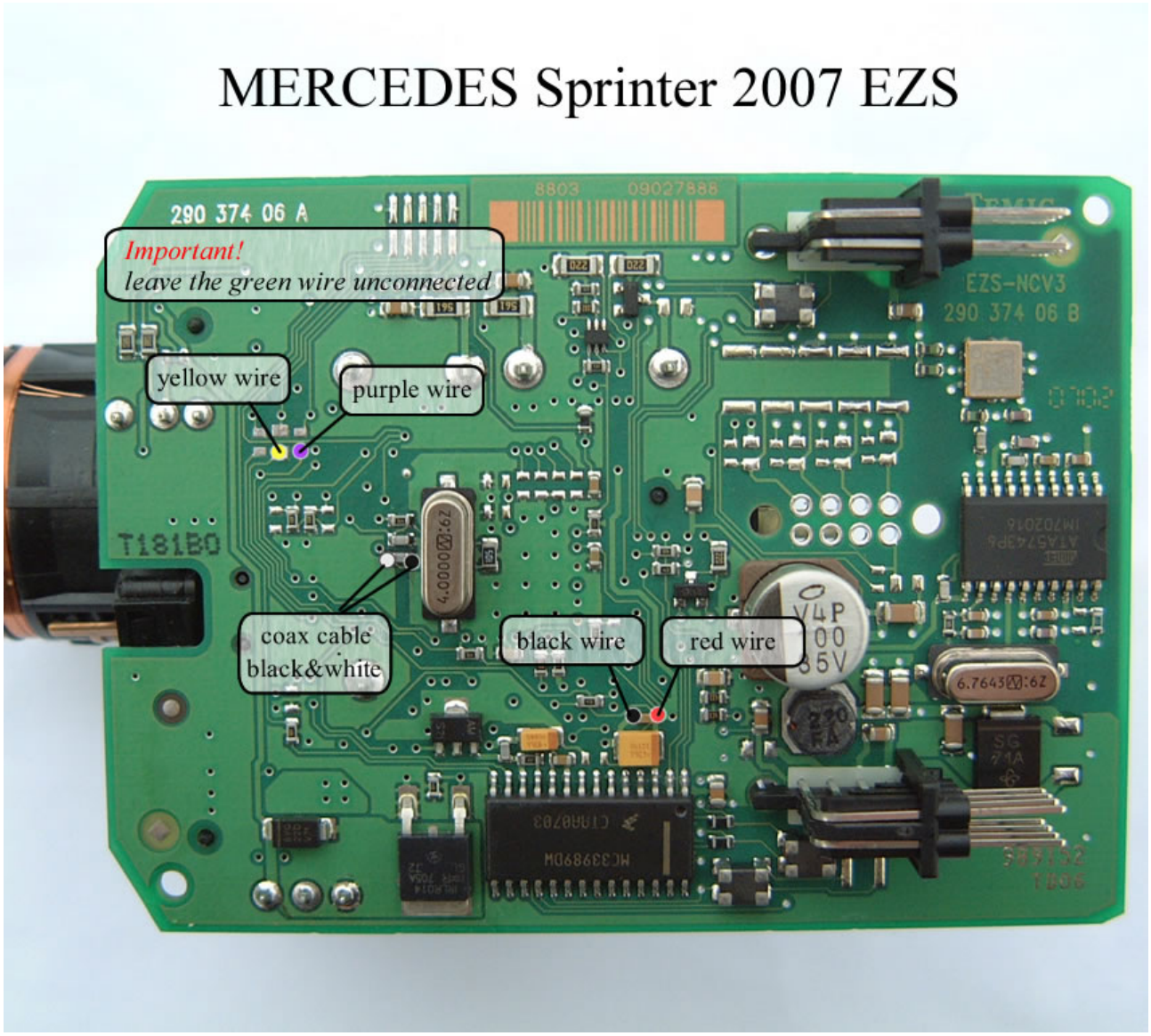

don't connect the green wire
black coaxial cable
Mini ONE/COOPER 2003- (R260) 1

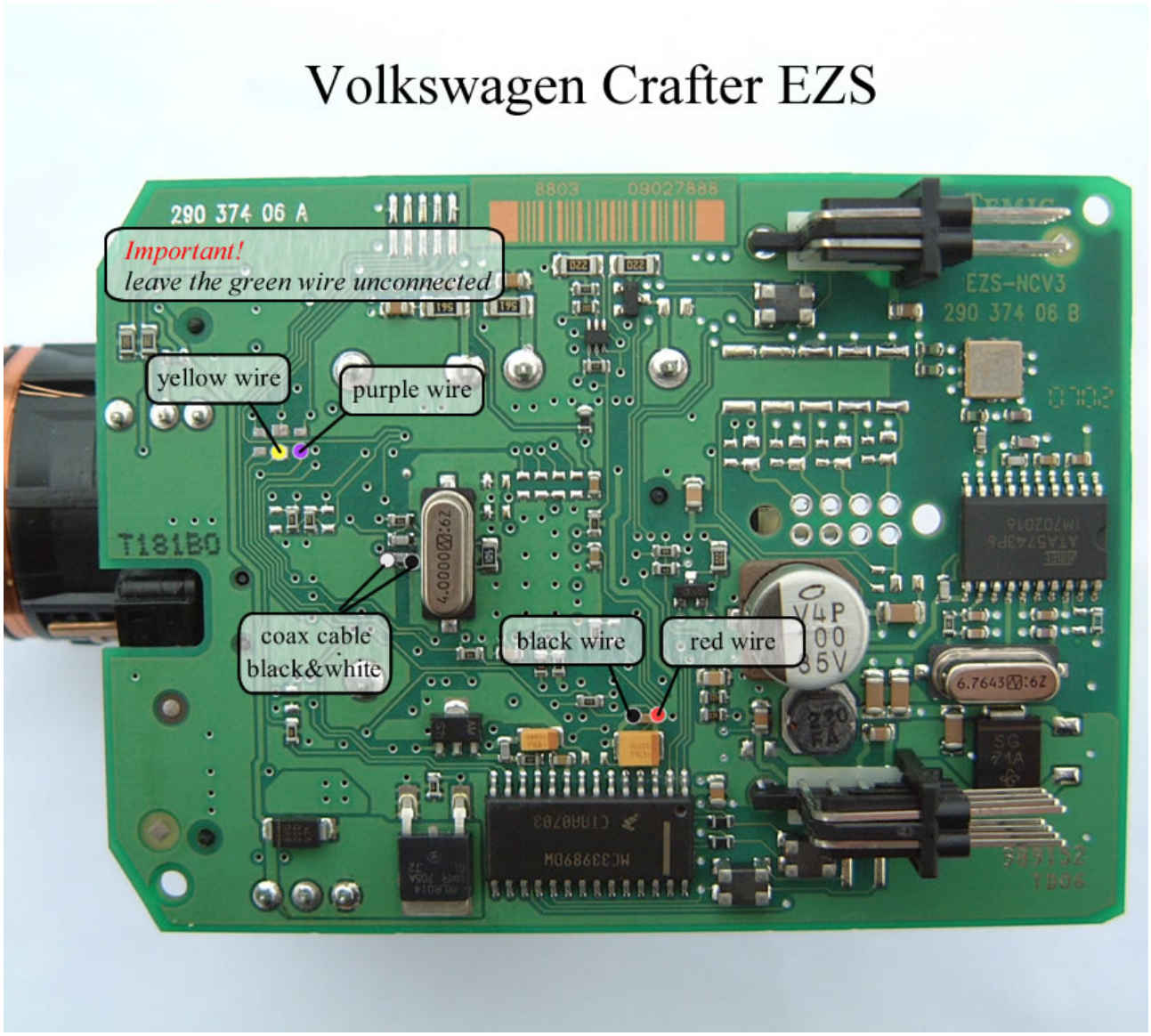

don't connect the green wire
black coaxial cable
Mini ONE/COOPER 2003- (R260) 2

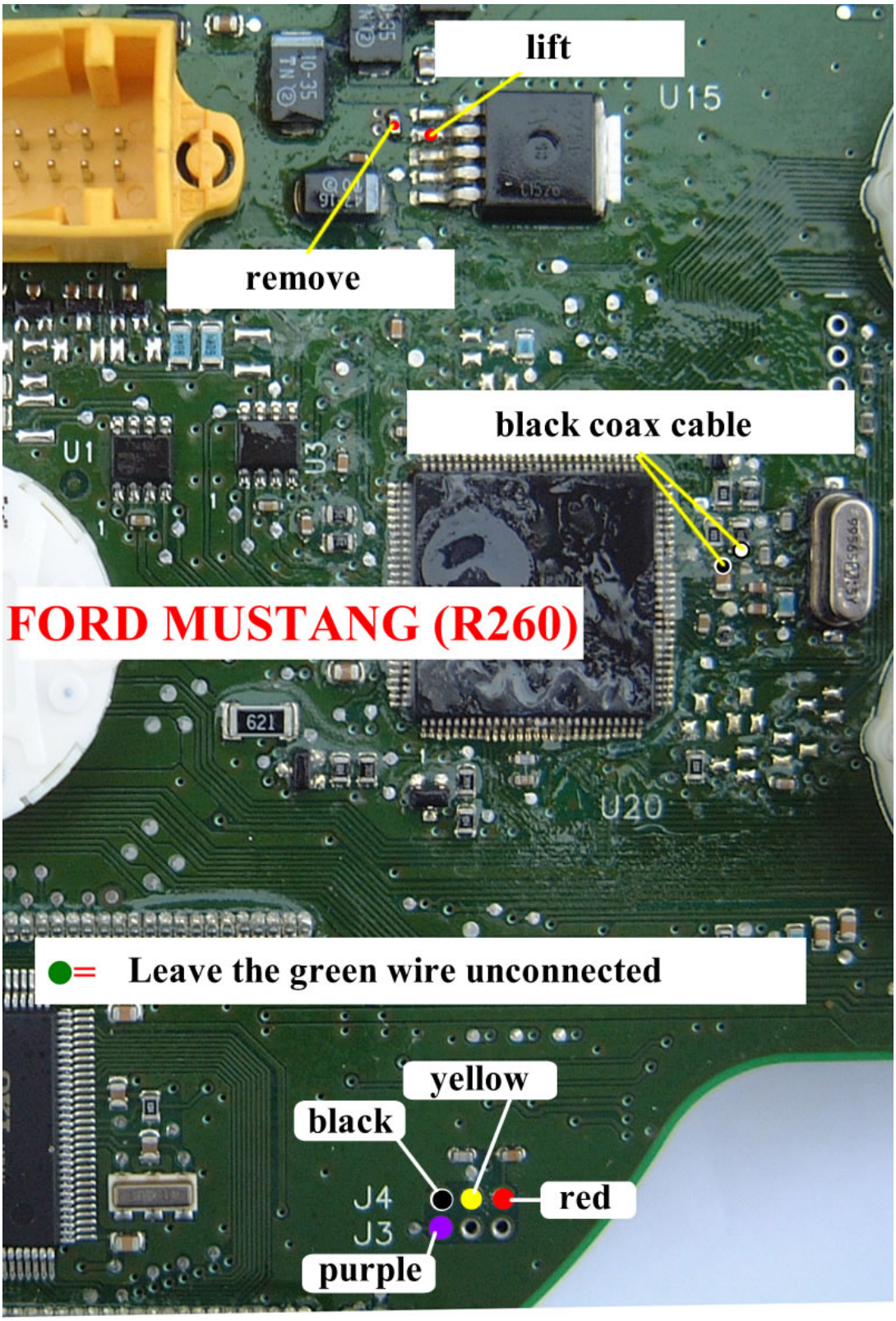
Mini One/Cooper 2003-> (R260) 3
- no display version -




MINI ONE/COOPER NAVI (R260)
don't connect the green wire
black coaxial cable


MERCEDES Sprinter 2007 EZS
290 374 06 A
Important!
leave the green wire unconnected
yellow wire
purple wire
coax cable
black&white
black wire
red wire
EZS-NCV3
290 374 06 B


Volkswagen Crafter EZS
290 374 06 A
Important!
leave the green wire unconnected
yellow wire
purple wire
coax cable
black&white
black wire
red wire
EZS-NCV3
290 374 06 B


lift
remove
black coax cable
FORD MUSTANG (R260)
●= Leave the green wire unconnected
yellow
black
red
purple
J4
J3
U15
U1
U3
U20
621