

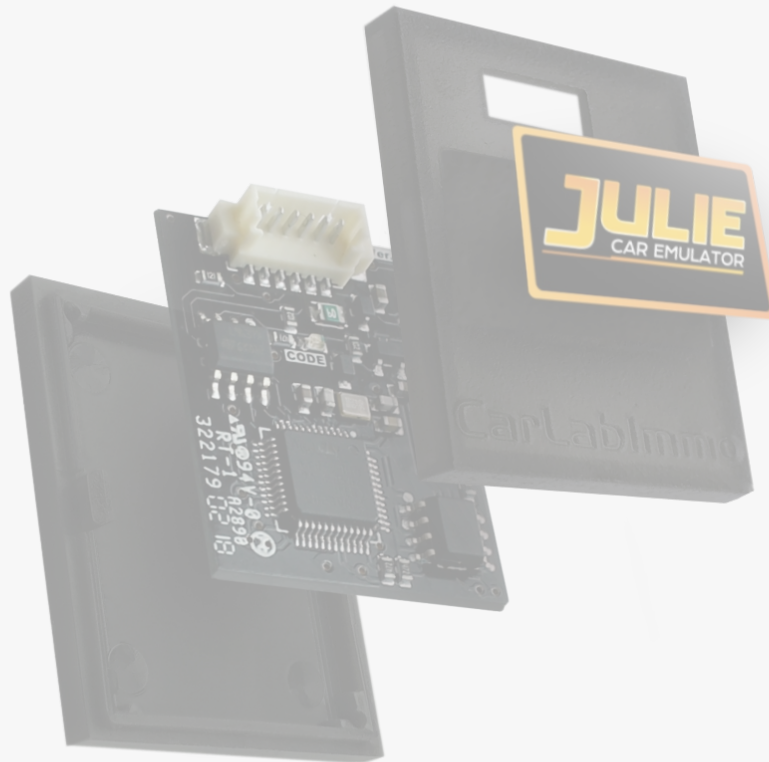
FIAT 2

Julie Car Emulator instruction manual

IMMO OFF PROGRAM

☰ **Table of contents**

		PHOTO	PINOUT	VIDEO
Page 2	• Program introduction			
Page 3	• Bosch EDC16C39			
Page 4	• Bosch MED7.6.1			
Page 5	• Magneti Marelli IAW 5NF			
Page 6	• Magneti Marelli IAW 5SF			
Page 7	• Magneti Marelli MJD 8F2			
Page 8	• Visteon DCU102			
Page 9	• Example cars and ECUs full list			



● Program introduction



Program usage

Fiat cars with ECUs listed below:

Bosch EDC16C39
 Bosch MED7.6.1
 Magneti Marelli IAW 5NF
 Magneti Marelli IAW 5SF
 Magneti Marelli MJD 8F2
 Visteon DCU102



Example ECUs

(Full list on page 9)

Bosch

0 281 018 720
 0 281 017 784
 0 281 016 291
 0 281 015 951
 0 281 015 575
 0 281 013 675
 0 281 013 580
 0 281 012 992
 0 281 012 294
 0 281 B04 453-02
 0 281 B02 539
 0 261 S01 071
 0 261 S01 068
 0 261 S01 054
 0 261 S01 045
 0 261 S01 041
 0 261 S01 034

Magneti Marelli

IAW 5NF.PS
 IAW 5NF.T9
 IAW 5NF.T4
 IAW 5NF.T2
 IAW 5NF.T1
 IAW 5NF.TD
 IAW 5NF.TE
 IAW 5NF.S9
 IAW 5NF.S8
 IAW 5NF.S7
 IAW 5NF.S5
 IAW 5SF8.M4
 MJD 8F2.B2
 MJD 8F2.G2

Visteon

DCU102
(Also applies in Citroen Jumper and Peugeot Boxer)



Example cars

(Full list on page 9)

Alfa Romeo

159
 147
 MiTo

Fiat

500
 Bravo
 Doblo
 Ducato
 Idea
 Grande Punto
 Grande Punto EVO
 Panda
 Punto EVO Stilo

Ford

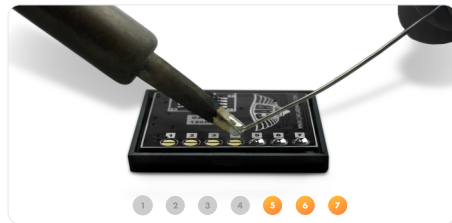
KA

Lancia

Ypsilon

(Also applies in Citroen Jumper and Peugeot Boxer)

● ● ● Jumpers to solder



To choose the program you have to solder specific jumpers on the back of the Emulator:

5 + 6 + 7

If it doesn't work, use one of the following jumper configurations:

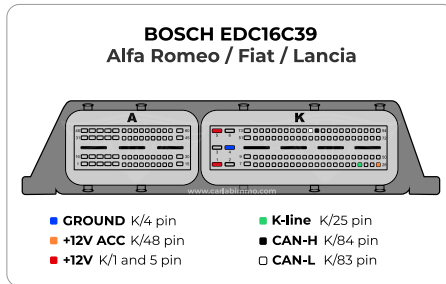
5 + 6 + 7 and CAN 120R

1 + 5 + 6 + 7

1 + 5 + 6 + 7 and CAN 120R

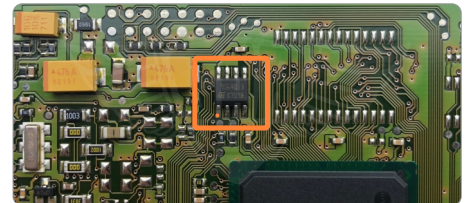


Bosch EDC16C39



1

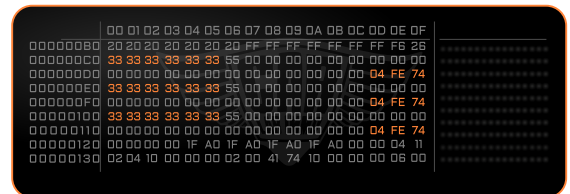
Find **95640** EEPROM memory and unsolder it



2

Using the programmer, change the following values in memory content:

- 0C0 to 0C5 ——— 33 33 33 33 33 33
- 0DD to 0DF ——— 04 FE 74
- 0E0 to 0E5 ——— 33 33 33 33 33 33
- 0FD to 0FF ——— 04 FE 74
- 100 to 105 ——— 33 33 33 33 33 33
- 11D to 11F ——— 04 FE 74



3

To choose the program you have to solder specific jumpers on the back of the Emulator:

5 + 6 + 7

If it doesn't work, use one of the following jumper configurations:

- 5+6+7 and CAN 120R
- 1+5+6+7
- 1+5+6+7 and CAN 120R



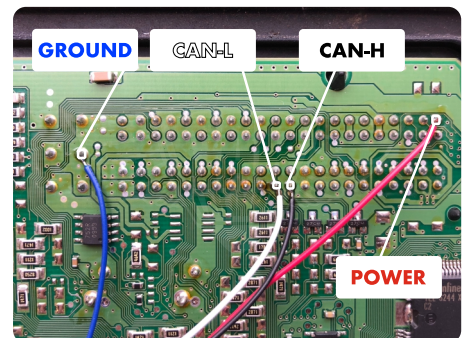
4

Connect Julie Emulator to the ECU according to the pictures on the right



Attention!

- Disconnect antenna coil from ignition switch!
- The emulator will self-adjust only after the second time the ignition is turned on!



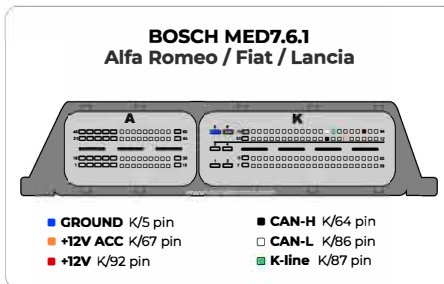
5

Check the Julie's LED behaviour
If the procedure is successfully completed the blue LED lights constantly and blinks once every two seconds!



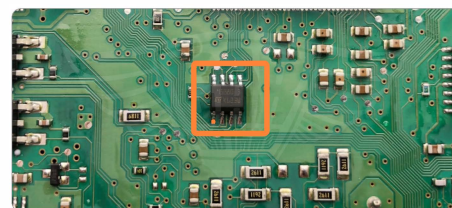
End of the procedure

Bosch MED7.6.1



1

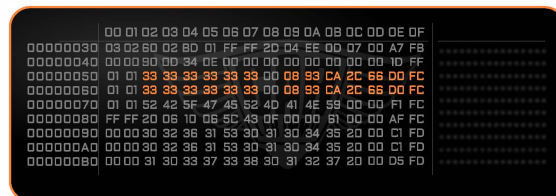
Find **95080** EEPROM memory and unsolder it



2

Using the programmer, change the following values in memory content:

- 052 to 057 ——— 33 33 33 33 33 33
- 059 to 05F ——— 08 93 CA 2C 66 D0 FC
- 062 to 067 ——— 33 33 33 33 33 33
- 069 to 06F ——— 08 93 CA 2C 66 D0 FC



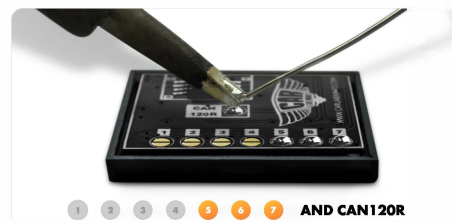
3

To choose the program you have to solder specific jumpers on the back of the Emulator:

5 + 6 + 7 and CAN 120R

If it doesn't work, use one of the following jumper configurations:

- 5+6+7
- 1+5+6+7
- 1+5+6+7 and CAN 120R

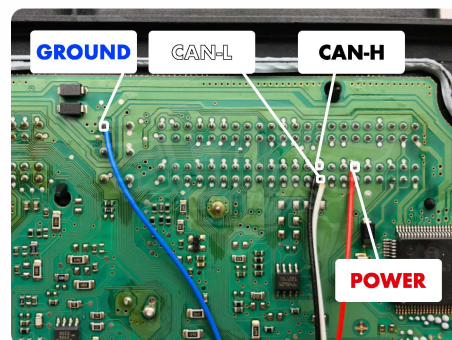


4

Connect Julie Emulator to the ECU according to the pictures on the right

i Attention!

- Disconnect antenna coil from ignition switch!



5

Check the Julie's LED behaviour
If the procedure is successfully completed the blue LED lights constantly and blinks once every two seconds!



End of the procedure



Magneti Marelli IAW 5NF



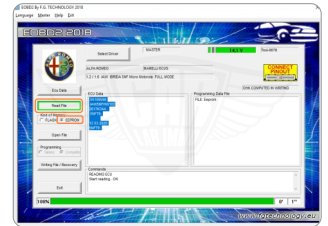
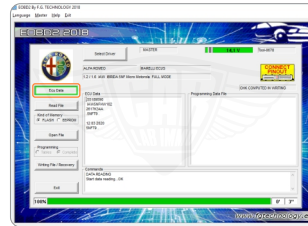
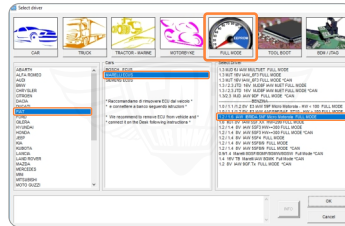
Magneti Marelli IAW 5NF
Alfa Romeo / Fiat / Lancia

- **GROUND** A/6 pin
- **+12V ACC** B/29 pin
- **+12V** B/16 pin
- **CAN-H** B/51 pin
- **CAN-L** B/36 pin
- **DIAGNOSIS** B/10 pin



1

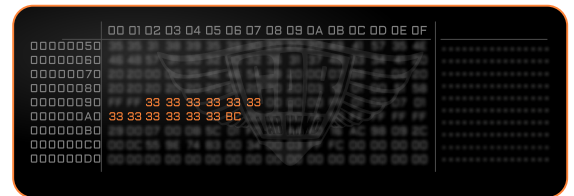
Use the **EOBD2** tool by **FGTech** to read the **EEPROM** memory content without unsoldering it.



2

Using a hex editor, change the following values in memory content:

0092 to 0097 ——— 33 33 33 33 33 33
00A0 to 00A6 ——— 33 33 33 33 33 33 BC



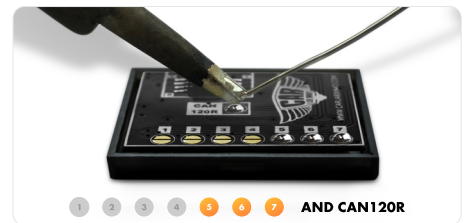
3

To choose the program you have to solder specific jumpers on the back of the Emulator:

5 + 6 + 7 and CAN 120R

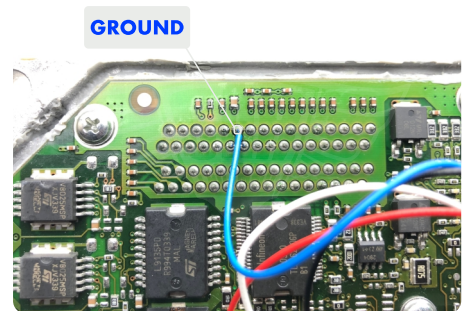
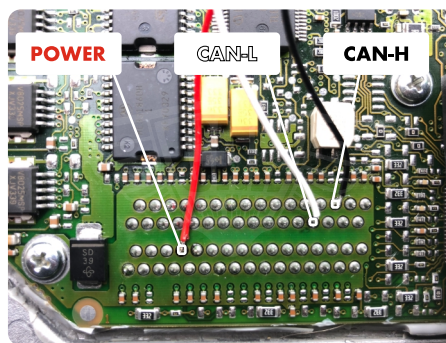
If it doesn't work, use one of the following jumper configurations:

- 5+6+7
- 1+5+6+7
- 1+5+6+7 and CAN 120R



4

Connect Julie Emulator to the ECU according the pictures on the right

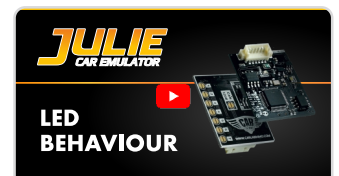


i Attention!

- Disconnect antenna coil from ignition switch!

5

Check the Julie's LED behaviour
If the procedure is successfully completed the **blue LED lights constantly and blinks once every two seconds!**



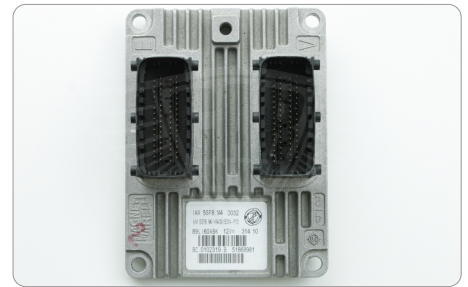


Magneti Marelli IAW 5SF



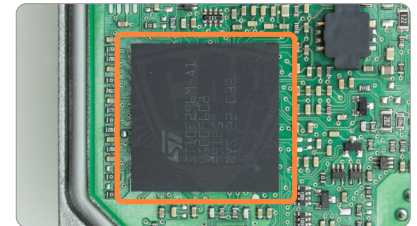
Magneti Marelli IAW 5SF
Alfa Romeo / Fiat / Lancia

- GROUND V/15 pin
- +12V ACC V/1 pin (2nd ON / OFF)
- +12V V/16 pin (1st ON / OFF)
- CAN-H V/50 pin
- CAN-L V/49 pin
- DIAGNOSIS V/10 pin



1

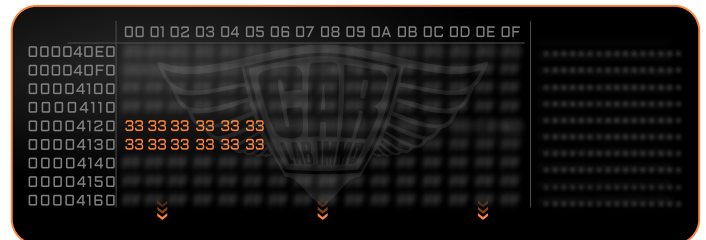
Find **ST10F296** processor and read it using a dedicated tool



2

Using a hex editor, find values that are repeating in addresses **4120 - 4125** and **4130 - 4135**.
Change these repeating values in the whole memory content (in addresses **4000-7FFF**) to **33 33 33 33 33 33**.

4120 to 4125	—	33 33 33 33 33 33
4130 to 4325	—	33 33 33 33 33 33
4BCA to 4BCF	—	33 33 33 33 33 33
4BDA to 4BDF	—	33 33 33 33 33 33
5674 to 5679	—	33 33 33 33 33 33
5684 to 5689	—	33 33 33 33 33 33
6120 to 6125	—	33 33 33 33 33 33
6130 to 6135	—	33 33 33 33 33 33
6BCA to 6BCF	—	33 33 33 33 33 33
6BDA to 6BDF	—	33 33 33 33 33 33
7674 to 7679	—	33 33 33 33 33 33
7684 to 7689	—	33 33 33 33 33 33



3

To choose the program you have to solder specific jumpers on the back of the Emulator:

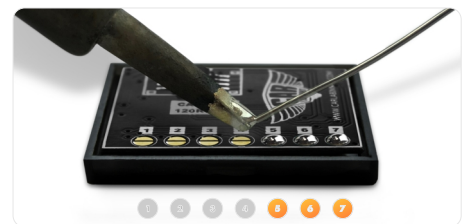
5 + 6 + 7

If it doesn't work, use one of the following jumper configurations:

5+6+7 and CAN 120R

1+5+6+7

1+5+6+7 and CAN 120R

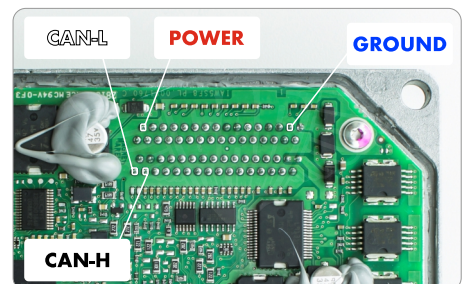


4

Connect Julie Emulator to the ECU according the picture on the right

Attention!

- Disconnect antenna coil from ignition switch!



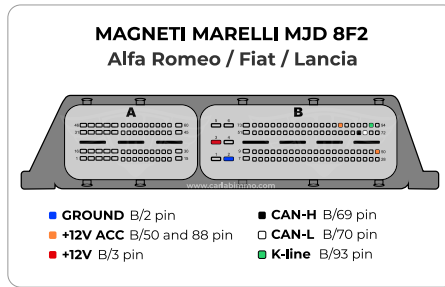
5

Check the Julie's LED behaviour
If the procedure is successfully completed the **blue LED lights constantly and blinks once every two seconds!**

End of the procedure

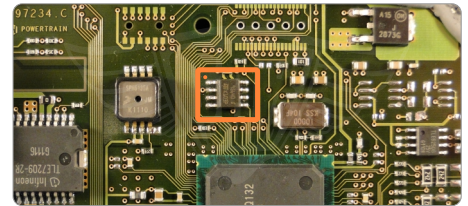


Magneti Marelli MJD 8F2



1

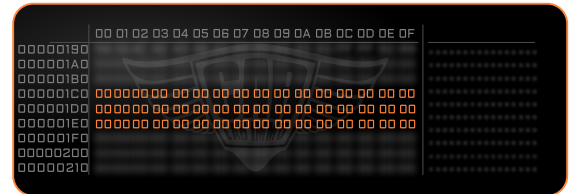
Find **95640** EEPROM memory and unsolder it



2

Using the programmer, change the following values in memory content:

01C0 to 01EF ——— 00



3

To choose the program you have to solder specific jumpers on the back of the Emulator:

5 + 6 + 7

If it doesn't work, use one of the following jumper configurations:

5+6+7 and CAN 120R

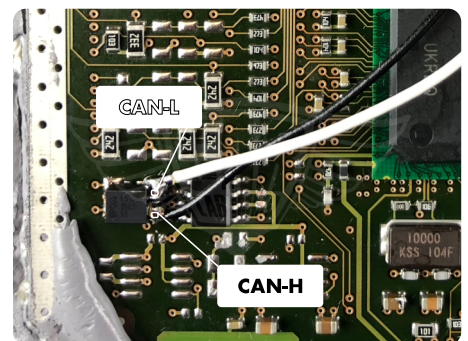
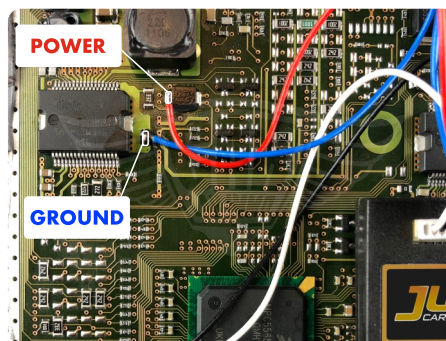
1+5+6+7

1+5+6+7 and CAN 120R



4

Connect Julie Emulator to the ECU according the pictures on the right



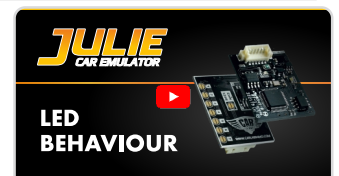
i Attention!

- Disconnect antenna coil from ignition switch!

5

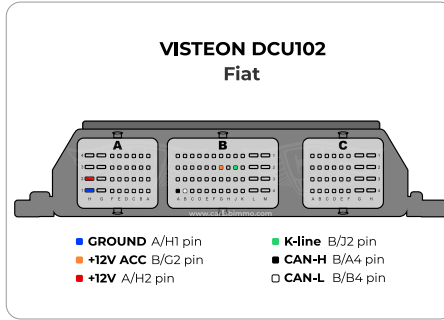
Check the Julie's LED behaviour
If the procedure is successfully completed the **blue LED lights constantly and blinks once every two seconds!**

End of the procedure





Visteon DCU 102



1

Read the content of **MCU ST10F276**

2

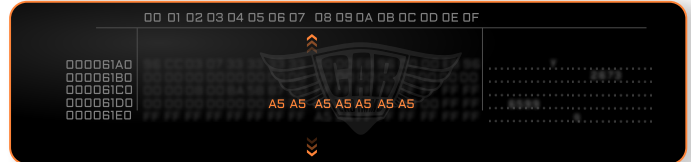
Go to addresses **61D6 - 61DC** and remember these values

ATTENTION: The picture shows example values. These values are different in every ECU.



3

Look for these values in the whole memory content. If you find them, change the values in these addresses to: **A5 A5 A5 A5 A5 A5 A5**

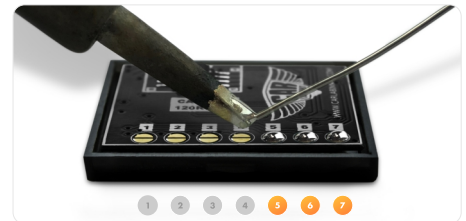


4

To choose the program you have to solder specific jumpers on the back of the Emulator:

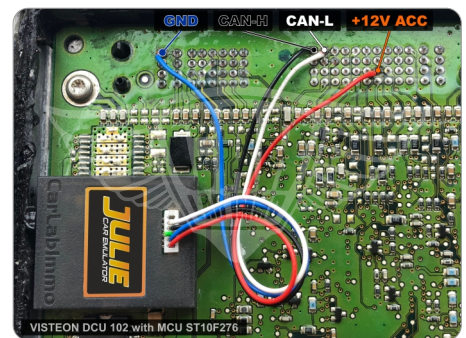
5 + 6 + 7

If it doesn't work, use one of the following jumper configurations:
 5+6+7 and CAN 120R
 1+5+6+7
 1+5+6+7 and CAN 120R



5

Connect Julie Emulator to the ECU according to the picture on the right.



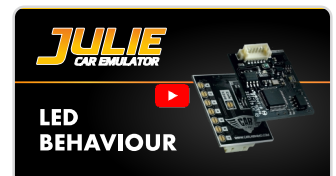
6

i Attention!

- Disconnect antenna coil from ignition switch!
- Turn the ignition on and off 3 times. After turning the ignition off and taking the key out, wait 1 minute. Remove the minus battery terminal and put it back again. Get inside the car, turn the ignition on and try to start the car.

7

Check the Julie's LED behaviour. If the procedure is successfully completed the **blue LED lights constantly and blinks once every two seconds!**



End of the procedure

● Example cars and ECUs



Program usage



Example cars



Example ECUs



Bosch EDC16C39 Page 3

Alfa Romeo 159 2.4 JTD 200HP 2005-2011
 Alfa Romeo 159 2.0 JTD 170HP 2005-2011
 Alfa Romeo 147 1.9 JTD 120HP 2000-2010
 Alfa Romeo Giulietta 2.0 JTD 140HP 2010-
 Alfa Romeo Giulietta 2.0 JTD 170HP 2010-2014
 Alfa Romeo MiTo 1.6 JTD 120HP 2008-2018
 Fiat Bravo 1.9 JTD 150HP 2007-2014
 Fiat Croma 1.9 JTD 150 HP 2005-2011
 Fiat Doblo 1.9 JTD 120HP 2005-2010
 Fiat Doblo 1.6 JTD 105HP 2012-
 Fiat Doblo 1.3 JTD 90HP 2012-
 Fiat Ducato 2.3 JTD 127HP 2010-2014
 Fiat Grande Punto 1.3 JTD 120HP 2005-2018
 Fiat Idea 1.9 JTD 100HP 2003-2010
 Fiat Linea 1.6 JTD 105HP 2007-2015
 Fiat Multipla 1.9 JTD 120HP 2004-2010
 Fiat Sedici 2.0 JTD 135HP 2009-2014
 Fiat Sedici 1.9 JTD 120HP 2005-2014
 Fiat Stilo 1.9 JTD 120HP 2001-2008
 Lancia Delta 1.9 JTD 190HP 2008-2014

0 281 018 720 (Fiat Doblo 1.6 JTD 105HP 2012)
 0 281 017 784 (Alfa Romeo Giulietta 2.0 JTD 170HP 2014)
 0 281 016 291 (Fiat Sedici 2.0 JTD 135HP 2010)
 0 281 016 223 (Fiat Ducato 2.3 JTD 127HP 2010)
 0 281 015 951 (Alfa Romeo Giulietta 2.0 JTD 140HP 2010)
 0 281 015 575 (Fiat Linea 1.6 JTD 105HP 2006)
 0 281 015 573 (Alfa Romeo MiTo 1.6 JTD 120HP 2009)
 0 281 013 675 (Fiat Doblo 1.9 JTD 120HP 2008)
 0 281 013 580 (Fiat Bravo 1.9 JTD 150HP 2008)
 0 281 013 579 (Alfa Romeo 159 2.4 JTD 200HP 2008)
 0 281 012 992 (Fiat Sedici 1.9 JTD 120HP 2009)
 0 281 012 862 (Alfa Romeo 147 1.9 JTD 120HP 2005)
 0 281 012 294 (Fiat Multipla 1.9 JTD 120HP 2004)
 0 281 012 149 (Fiat Croma 1.9 JTD 150HP 2005)
 0 281 B04 453-02 (Fiat Doblo 1.6 JTD 105HP 2012)
 0 281 B03 940-05 (Lancia Delta 1.9 JTD 190HP 2008)
 0 281 B02 539 (Fiat Grande Punto 1.3 JTD 120HP 2007)

Bosch ME7.6.1 Page 4

Alfa Romeo 159 2.2 JTS 185HP 2005-2011
 Alfa Romeo 159 1.9 JTS 160HP 2005-2011

0 261 S01 071 (Alfa Romeo 159 1.9 JTS 160HP 2010)
 0 261 S01 068 (Alfa Romeo 159 2.2 JTS 185HP 2010)
 0 261 S01 065 (Alfa Romeo 159 2.2 JTS 185HP 2008)
 0 261 S01 054 (Alfa Romeo 159 2.2 JTS 185HP 2006)
 0 261 S01 045 (Alfa Romeo 159 2.2 JTS 185HP 2007)
 0 261 S01 041 (Alfa Romeo 159 1.9 JTS 160HP 2008)
 0 261 S01 034 (Alfa Romeo 159 2.2 JTS 185HP 2009)

MAGNETI MARELLI

Magneti Marelli IAW 5NF Page 5

Fiat Stilo 1.6 105HP 2001-2008
 Fiat Doblo 1.6 103HP 2000-2009
 Fiat Panda 1.2 69HP 2009-2012
 Fiat Panda 1.2 60HP 2003-2009
 Fiat Punto II 1.2 60HP 1999-2010

IAW 5NF.PS (Fiat Punto II 1.2 60HP 2003)
 IAW 5NF.T9 (Fiat Stilo 1.6 105HP 2003)
 IAW 5NF.T4 (Fiat Doblo 1.6 103HP 2007)
 IAW 5NF.T2 (Fiat Doblo 1.6 103HP 2005)
 IAW 5NF.T1 (Fiat Stilo 1.6 105HP 2003)
 IAW 5NF.TD (Fiat Doblo 1.6 103HP 2009)
 IAW 5NF.TE (Fiat Doblo 1.6 103HP 2003)
 IAW 5NF.S9 (Fiat Panda 1.2 69HP 2010)
 IAW 5NF.S8 (Fiat Panda 1.2 60HP 2007)
 IAW 5NF.S7 (Fiat Panda 1.2 60HP 2009)
 IAW 5NF.S5 (Fiat Panda 1.2 60HP 2008)

Magneti Marelli IAW 5SF Page 6

Fiat 500 1.2 69HP 2007-
 Fiat Grande Punto 1.4 T-Jet 120HP 2005-2010
 Fiat Panda 1.2 69HP 2012-
 Fiat Punto EVO 1.4 105HP 2009-2012
 Ford KA 1.2 69HP 2008-2016

IAW 5SF9.A8 (Fiat Grande Punto 1.4 T-Jet 120HP 2007)
 IAW 5SF8.M4 (Fiat 500 1.2 69HP 2014)

Magneti Marelli MJD 8F2 Page 7

Fiat 500 1.3 75HP MultiJet 2007-
 Fiat Panda 1.3 75HP MultiJet 2009-
 Fiat Grande Punto 1.3 JTD 75HP 2005-2009
 Fiat Idea 1.3 JTD 70HP MultiJet 2003-2010
 Lancia Ypsilon 1.3 75HP MultiJet 2003-2011

MJD 8F2.B2 (Fiat Panda 1.3 75HP MultiJet 2011)
 MJD 8F2.G2 (Fiat Grande Punto 1.3 JTD 75HP 2009)

VISTEON

Visteon DCU102 Page 8

Citroen Jumper II 2.2 HDI 100HP/120HP 2006-
 Fiat Ducato III 2.2 JTD 100HP/120HP 2006-2011
 Peugeot Boxer II 2.2 HDI 100HP/120HP 2006-

DCU102 (Fiat Ducato III 2.2 JTD 100HP/120HP 2006-2011)