

2015

**MAGNETI  
MARELLI**

**checkstar**  
SERVICE NETWORK



**UNIVERSAL LAMBDA SENSORS**  
**Magneti Marelli Vitaloni**

## CHOOSING LAMBDA SENSOR

1. Define the number of wires coming out of the exchanged lambda sensor.
2. Define the purpose of each wire of lambda sensor.
3. Using an ohmmeter define the power of the heater and is the ground wire free or connected to the sensor cover.
4. Based on the diagram below, choose the appropriate universal lambda sensor.

NUMBER OF WIRES							
1	2	3		4			
SLV1100	SLV2100	POWER OF HEATER					
		9W	14W	9W		14W	
		SLV3100	SLV3104	GROUND		GROUND	
				SENSOR GROUND	FREE	SENSOR GROUND	FREE
				SLV4108	SLV4110	SLV4100	SLV4109

## TECHNICAL INFORMATION

Short code	Number of wires	Power of heater	Max. power of heater	Resistance $\Omega$	Ground
SLV1100	1	-	-	-	-
SLV2100	2	-	-	-	-
SLV3100	3	9W	32W	4,5 $\Omega$	-
SLV3104	3	14W	41,1W	3,5 $\Omega$	-
SLV4100	4	14W	41,1W	3,5 $\Omega$	SENSOR GROUND
SLV4108	4	9W	32W	4,5 $\Omega$	SENSOR GROUND
SLV4109	4	14W	41,1W	3,5 $\Omega$	FREE
SLV4110	4	8W	24W	6 $\Omega$	FREE









## INSTALLATION OF UNIVERSAL LAMBDA SENSOR

During the lambda sensor replacement, please observe the general safety rules related to the repair of vehicles.

1. The sensing element of lambda sensor is made of ceramic, protect against hits.
2. Remove the protective cap from lambda sensor. **WARNING!** The thread of the lambda sensor is coated with the protective lubricant.
3. Pay attention to the bundle length of the old lambda sensor and the length of the wires coming from the new universal lambda sensor. Cut the bundle at the old lambda sensor in a manner, when combined with the universal lambda sensor total wires length will be unchanged. Remove the old lambda sensor from the place of assembly.
4. Identify the purpose of each wire in the old bundle. Use additional mounting elements to connect a new lambda sensor with the plug, according to the wire color identification described in this document. **WARNING!** Car manufacturers use different colors to determine each wire in a bundle. In case of doubt, please use the technical documentation of vehicle. Incorrect bundle connection may damage the ECU.
5. Prepared lambda sensor with a bundle instal in the vehicle using the appropriate tightening torque of 47Nm.
6. Plug the connector to the vehicle installation.

WIRE COLOR IDENTIFICATION

Before installing the universal lambda sensor, please acquaint with the purpose of its wires. Wires are distinguished by using different colors of insulation listed below for each universal lambda sensor model.

Lambda sensor	Wire color (purpose)
	SIGNAL
	SIGNAL GROUND
	SIGNAL HEATER HEATER
	SIGNAL HEATER HEATER
	SIGNAL GROUND HEATER HEATER
	SIGNAL GROUND HEATER HEATER
	SIGNAL GROUND HEATER HEATER
	SIGNAL GROUND HEATER HEATER

**ITALY**

Viale Aldo Borletti, 61/63  
20011 Corbetta (Milano)  
Tel. +39 02 97227421 +39 02 97227807 • Fax +39 02 97227234

**Export**

Viale Aldo Borletti, 61/63  
20011 Corbetta (Milano) Italy  
Tel. +39 02 97227618 • Fax +39 02 97227755

**SPAIN**

Poligono Industrial G-2 Collsabadell  
Ronda de Collsabadell, 1-3  
08450, Llinars del Vallès, BCN  
Tel. +34 93 8413530 • Fax +34 93 8427257

**FRANCE**

Z.A. Trappes Elancourt  
5-7 rue Albert Einstein - 78190 Trappes  
Tel +33 (0)1 3016 6960 • Fax +33 (0)1 3016 6961

**GERMANY**

Salzstrasse 185c  
74076 Heilbronn  
Tel. +49 7131 2910 • Fax +49 7131 165236

**POLAND**

Plac pod Lipami 5  
40-476 Katowice  
Tel. +48 32 6036107 • Fax +48 32 6036108

**RUSSIA**

3-j pr. Perowa Polia 8, buildg.11, office 301  
111141 Moscow, Russia  
Tel: + 7 495 646 24 38

**BRAZIL**

Rua Manoel da Nóbrega, 350  
09380-120 Mauá-São Paulo  
Tel. +55 11 2144-1717 • Fax +55 11 2144-1688

**ARGENTINA**

R. Andonaegui 1035  
(C1427BEC) Capital Federal-Buenos Aires  
Tel. +54/11/45236612 • Fax +54/11/4523661

**CHINA**

Building No 5, 88 MaJi Road, Waigaoqiao Free Trade Zone  
200131 Pudong Shanghai  
Tel. +86 21 58696966-6852 • Fax +86 21 58696907

