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Bosch LSU-4.x Main Page

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This page describes various sensor topics, focusing on the **Bosch** LSU range of true wideband sensors. These are 5-wire [pump cell sensors](#). The sensors requires a bung with an 18 mm diameter hole with 1.5 threads/mm pitch (**M18x1.5**) and this is one of the standard lambda sensor & spark-plug base sizes. Note that a wideband sensor should **NOT** normally be placed in an existing bung designed for a narrowband sensor because this position will usually be too hot.

The **pump cell** is inside the white ceramic **rectangle** shown in the image at [left](#). It's just over 4 mm across so it's quite **small**. The image [below right](#) is a cross section drawing of a complete LSU sensor with the red circle indicating where the pump cell is located. Here is more [technical information on the Bosch 0 258 006 066 LSU-4.0](#) sensor.

You will find some web documents (including some from Bosch) describing the 6066 as an **LSU-4.2** sensor. It's **NOT** electrically equivalent to the newer 4.2 sensors but can be used with some controllers that allow free-air calibration. The latest **LSU-4.9** sensors are even better than the LSU-4.0/4.2 sensors but they require different hardware/firmware. A controller designed only for an **LSU-4.2** will not work at all with an **LSU-4.9** sensor. **Tech Edge** sells controllers that can be set up to work with both.

[Click here to Buy Wideband Sensors](#)

LSU Sensors (and Connectors) for WBo2

Tech Edge has used the following LSU sensors with the WBo2 unit. The differences are in the connector and the calibration values required.

LSU part

+ [connector](#)
= [TE part #](#)

0 258 006 066
= 6066
= [con6066](#)
[6066 image](#)

Available from ...

WBo2.com ([Tech Edge](#)) ~~AU\$220~~ AU\$150 + shipping (Standard Tech Edge price for the 6066 sensor = 6066)
Tech Edge also sell the 6066 connector kit (AU\$8.00/e = [con6066](#))

0 258 007 057
+ [1J0-973-733](#)
+ [000-979-133-A](#)
+ [357-972-741-A](#)

[7057 image](#)

= 7057
= [con7057](#)

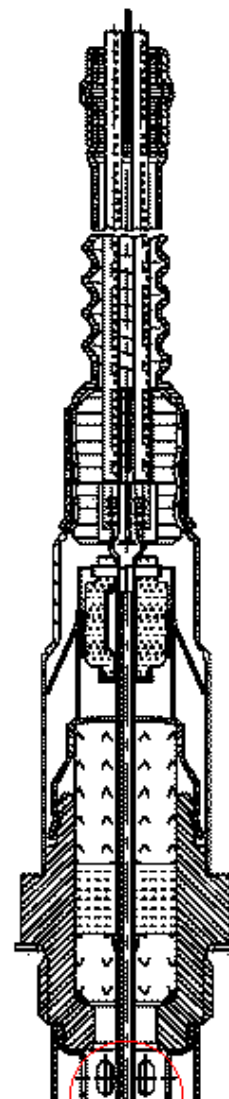
1 **1stVWParts.com** to order you need to enter [021-906-262-B](#) for [Volkswagen](#) ([Parts.com](#) or [1stVWparts.com](#)) ~~US\$51.05~~ US\$38.29 + shipping (info correct @ 14 April '05).

2 **ImpexFAP.com** [Impex Foreign Auto Parts](#) ~~US\$56.72~~ US\$48.99 + shipping (info correct @ 14 April '05). * Impex FAP also have the connector housing (VW Part #) [1J0-973-733](#) (@ US\$3.75/e), * wire with 2 terminals [000-979-133-A](#) (3 required @ US\$2.78/e = \$8.30/3), * seal/grommet [357-972-741-A](#) (6 required @ US\$0.20/e = \$1.20/6)

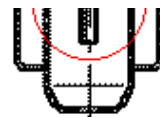
3 **WBo2.com** ([Tech Edge](#)) AU\$94 + shipping (Standard Tech Edge price for the **locally imported** 7057 sensor = 7057)
Tech Edge also sell the complete 7057 connector kit (AU\$9.00/e = [con7057](#))

Alternate LSU Part Numbers

A number of vehicle manufacturers currently use a Bosch LSU 4 wideband sensor on their production vehicles. Feel free to [contact us and add to the following list](#). Where there are multiple part number, like 057/058 they refer to the same sensor with longer or shorter leads. A sensor in this list doesn't imply the Tech Edge [WBo2 unit](#) supports it. See also [www.forparts.com](#) for another list of vehicles using Bosch wideband sensors.



Bosch Part Number	Vehicle Part number extra info
0 258 007 033	Volvo 2000 C70 , 2.3 L & 2.4 L turbo. <i>Bosch USA #17033</i>
0 258 007 036	Volvo 1999 S80 T6 (Front) <i>Bosch USA #17036, (Info from Alex Neckas).</i>
0 258 007 044	Porsche Carrera 911 GT3 part # 996-606-168-01
0 258 006 047	Volvo 1999 S70 2.4T. Volvo part 91 25 547 (<i>possibly the same as Volvo part 94 54 597 used on first generation S80 2.4T and T5</i>).
0 258 007 051, 0 258 007 052	VW 2006 1.2 Polo (maybe wasn't the original fitment). , VW - 030 906 262 G.
0 258 007 053, 0 258 007 054	VW 2000 Beetle 1.8 turbo. , <i>Bosch USA #17053.</i>
0 258 007 057, 0 258 007 058	VW 1.8T and 2.8L VR6 Golf , Jetta and Turbo Beetle , VW part # 021-906-262-B, (AWW & AFP motors only) <i>Bosch US part # 17014</i>
0 258 006 065	GM Cadillac Catera. GM part number 919-8809. Saturn part number 24450850. <i>Same part as the 0 258 006 066 below, but different cable length</i>
0 258 006 066	Bosch LSU 4 sensor - <i>sold by Tech Edge</i> - AU\$150
0 258 007 085, 0 258 007 086	VW 2.0 L
0 258 007 090	Audi 2001 - 2003 A4 1.8T (Front) and VW 2001 Passat 1.8T (Front) (<i>Info from Alex Neckas</i>).
0 258 007 191 0 258 007 192	Audi 2003 A8 4.2L (<i>Info from Zbigniew Rebis 11 Nov '08</i>).
0 258 007 200	GM used on some Holden Commodore models (VX, VY, etc.). LSU 4.2 sensor <i>sold by Tech Edge</i> . Upgraded 7 057 sensor.
0 281 004 028	BMW part number 13 62 7 793 25. An LSU 4.9 sensor.
0 258 017 020	GM Pontiac Solstice/Saturn Sky - LSU 4.9 sensor (has connector 1 928 404 687) (<i>Info from Banning Cohen 05 Sep '06</i>).
0 258 017 025	Bosch LSU 4.9 sensor (has connector 1 928 404 682) <i>sold by Tech Edge</i> -
0 258 017 036	BMW N52 6 cylinder engine. LSU 4.9 sensor. (<i>Info from Cameron Freeman 01 Aug '06</i>).



LSU Connector Pinouts

This information has been moved to the section on [LSU connectors](#).

LSU WBo2 Cables

See the section on [Cable Information](#) to learn how our cables are manufactured, and on how to build your own (DIY) cable, or to repair a damaged cable. Please note that since 2004 Tech Edge has used fibreglass sheath rather than the nylon sheath described in some sections.

How 5 Wire Pump Cell Sensors Work

This section has been moved to the [following page](#).

WARNINGS!

- Pump Cell sensors (like the LSU) should not be exposed to an exhaust stream and left unheated. The internal diffusion chamber will readily clog with carbon deposits that would be "burnt off" in normal operation.
- If your wideband unit is disconnected for any length of time (> 10 minutes), you should also remove the sensor and replace the nut in the bung.
- Sensors should be placed so they are not overheated (gas temp not above 750 °C, nor cooled beyond the ability of the heater to maintain their working temperature (~10 Watts).
- All pump cell wideband sensors are pressure sensitive. They should not be placed where the working gas pressure is much above or below atmospheric pressure, otherwise different calibration curves must be used for best accuracy.

More Information ...



We update these pages from time to time. Go to the [WBo2 home page](#) for more wideband information.



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