

Siemens®VDO

Tachometer Installation and Operation Instructions

for Programmable Tachometer with Hourmeter

Siemens/Type #32 111 011 001
Rev. 01/01

NOTIFICATIONS FROM THE ORIGINAL AUTHOR AND OPERATOR OF THE PROGRAMMABLE TACHOMETER ARE CONSIDERED NECESSARY. USE AN APPROVED TOOL FOR INSTALLATION TO PREVENT DAMAGE TO THE TACHOMETER.

If in doubt, please contact your dealer or VDO North America at (800)265--1818.

CAUTION: Read these instructions thoroughly before installing the tachometer. Do not deviate from assembly or wiring instructions. Always disconnect the battery ground before making any electrical connections.

General Information

The VDO Programmable Tachometers featured in this installation manual are available in three diameters: 3 1/4" (80 mm); 3 5/8" (85 mm); and 4" (100 mm). All tachometers can be programmed to function with gasoline engines or with diesel engines, and can be used with most ignition coils. These instructions describe the installation, wiring, calibration and fine tuning of the VDO Programmable Tachometers.

Each tachometer's analog display clearly shows the number of revolutions per minute, and the LCD display shows the accumulated engine hours. This display is also used in the programming, calibration and fine tuning of the VDO Programmable Tachometers.

Signal pulses needed by the tachometer are provided by the ignition coil, an alternator (AC tap), a Hall-Effect sensor, or an inductive sensor, depending on the type of engine. If you are not sure where to tap the ignition to get the necessary signal, consult your operator's manual or contact the engine manufacturer.

Tools and Materials Needed For Installation:

- Hole saw or jig saw (may not be needed)
- 1/4" spade terminals
- Miscellaneous electrical connectors
- Phillips and/or flathead screwdriver
- Pliers and/or wrenches
- Crimping tool and/or soldering iron (may not be needed)

CAUTION!!

These instructions contain information about gauges of different sizes. **You must determine the size of your gauge before cutting any holes!**

Parts List

Item	Description	Quantity
1.	Tachometer	1
2.	Lamp Socket (Push in, wedge-type)	2
3.	Light Bulb (12 volt, G.E. #41 or equivalent)	2
4.	VDO Spin-Lok™ Mounting Clamp	1
5.	Installation/Operation Instructions	1

Sensor Installation

The sensor necessary to provide the signal to your new VDO Tachometer is not included. This sensor is available from your auto parts dealer. (Part numbers for VDO Hall Effect Sensors are: 340 011; 340 012; 340 013; and 340 014. The VDO Generator Sensor is Part # 340 001. VDO's Inductive Sensor is Part # 340 020.)

I. Mounting the Tachometer

- Refer to Diagram B for dimensions. The 3 1/4" (80 mm) tachometer requires a hole diameter of 3 1/4" (80mm); the 3 5/8" (85mm) tachometer requires a hole diameter of about 3 5/8" (85mm); and the 4" (100 mm) tachometer requires a hole diameter of about 4" (100 mm). If you are mounting the tachometer into an existing panel, remember that the panel cannot be more than 1/4" (20 mm) thick. Minimum mounting depth is 3 5/8" (91mm).
- Careful measuring is a must for proper mounting of your tachometer. An improperly placed hole would be a costly mistake, so measure everything twice. **REMEMBER: THERE ARE NO SECOND CHANCES ONCE YOU HAVE MADE YOUR HOLE! MEASURE TWICE... CUT ONCE!**
- Cut the hole. If you do not have a hole saw the exact size needed, use the closest **SMALLER** size, and carefully widen the hole with a half-round file or other similar device.
- Note: If you plan to calibrate your tachometer, perform this step **LAST**. Place the tachometer in the opening and secure it with the supplied VDO Spin-Lok clamp as shown in Diagram C. You may also mount the tachometer using an optional VDO mounting bracket and nuts.

II. Wiring the Tachometer

- Prepare insulated 1/4" spade terminals for use with the tachometer. Make sure all wires are long enough to reach the necessary positive and negative terminals and any wires from the sensor.
- Connect the wire from pin #4 to a switched +12 volt or +24 volt source. A switched +12 or 24 volt wire can be found coming from the ignition switch. Follow this wire to a junction, and attach the wire from pin #4 at this junction (i.e. fuse block, etc.). Refer to Diagram D.
- Connect a wire from pin #5 to a constant +12 or +24 volt source.
- Attach the wire from pin #3 to a ground (negative) source. One such source can always be found where the battery is attached to the metal frame of the vehicle. Use an appropriate connector to ground this wire.
- Attach the wire from pin #8 to the positive (+) tachometer signal source [usually a terminal on the ignition coil or the generator in a diesel system] using a butt splice and a crimping tool.
- Attach the wire from pin #7 to the negative (-) terminal of the sender or floating ground [usually a terminal on the ignition coil or the generator in a diesel system] using a butt splice and a crimping tool.
- Crimp a spade connector onto a short wire, and attach the connector to a terminal on one of the supplied lamp sockets. This lamp socket is referred to as Socket A.
- Crimp the other end of the short wire, along with

[text continues at #40] →

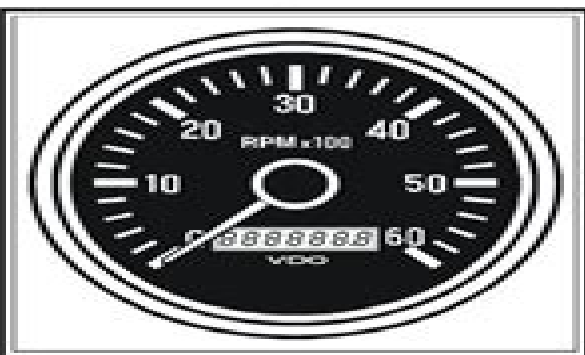


Diagram A

VDO Tachometer with Hourmeter is programmable from .5 to 200 pulses per revolution.

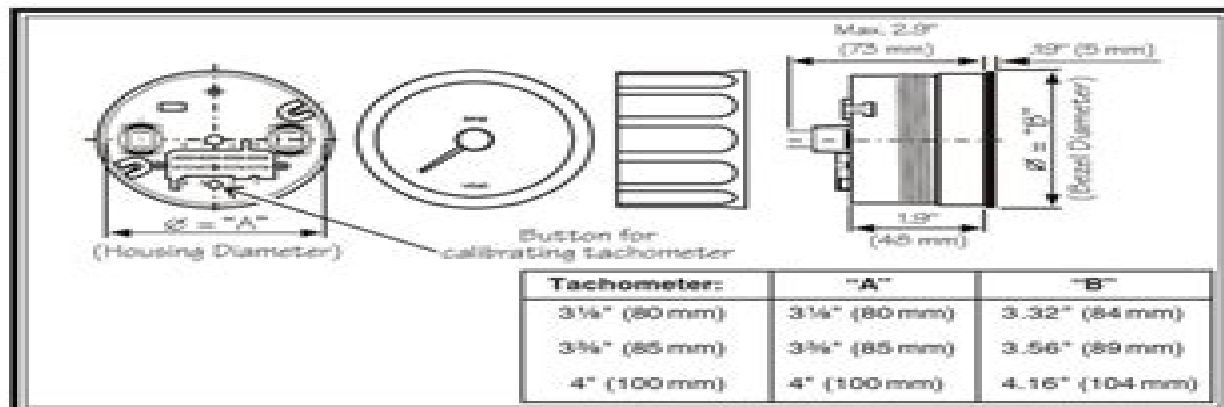


Diagram B

VDO Programmable Tachometer Dimensional Drawings.

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Christian G. Meyer



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The Professional LGV Driver's Handbook David Lowe,2008-11-03 From 2009 all LGV drivers will need to acquire the new EU driver CPC in addition to a LGV driver licence This book is the ultimate LGV training manual for any professional driver or transport manager as it covers all areas a driver will need to know and understand in order to gain the licences necessary to drive a LGV vehicle Not only does the book deliver the essential information to ensure drivers gain these licences but it also provides a complete guide to driving safely professionally and legally Including information on driving skills health and safety law how to deal with paperwork use of tachographs and driving abroad The Professional LGV Driver s Handbook is the ultimate resource for anyone training to drive a LGV vehicle as well as being an indispensable reference for experienced drivers and managers The Complete Twin Plant Guide ,2008 *Lowe's Transport Manager's and Operator's Handbook 2020* David Lowe,Clive Pidgeon,2020-02-03 Ensure the safe and legal operation of your fleet by staying up to date with the latest rules governing road transport operators in the UK Ireland and Europe Now in its 50th edition Lowe s Transport Manager s and Operator s Handbook 2020 is the most comprehensive guide available to the operational rules and guidelines governing the UK Ireland and the EU s road transport operators This best selling handbook is an essential reference and explores in detail the most pressing issues in today s road transport industry It includes details on professional competence insurance international transport of animals dangerous and perishable goods international haulage and customs procedures This manual includes guidance for drivers in the Republic of Ireland and mainland Europe along with the rules and penalties governing these regions Lowe s Transport Manager s and Operator s Handbook 2020 is the essential reference source for any transport manager fleet operator owner driver haulier or student involved in the transport industry This new edition has been thoroughly updated and revised to reflect the latest developments covering changes to EU drivers hours HM Customs tachograph rules for AETR rules and intermodal freight material **Manual de tecnologia automotiva** Robert Bosch,2005-01-01 A Robert Bosch GmbH uma das maiores fornecedoras de equipamentos automotivos do mundo O elevado n mero de patentes para aplicativos e modelos de utilidade uma prova contundente da posi o de lideran a da empresa na engenharia automotiva Lowe's Transport Manager's and Operator's Handbook 2019 David Lowe,Clive Pidgeon,2019-02-03 One of the biggest challenges facing you and the road transport industry is the constant introduction of new legislation In order to protect your business and avoid penalties equip yourself with the latest knowledge of updates to regulations with Lowe s Transport Manager s and Operator s Handbook 2019 Now in its 49th edition and endorsed by the Chartered Institute of Transport and Logistics Lowe s Transport Manager s and Operator s Handbook 2019 is the most comprehensive guide available to the operational rules and guidelines governing the UK Ireland and the EU s road transport operators This best selling exclusive handbook is an essential reference and explores in detail the most pressing issues in

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Lowe's Transport Manager's and Operator's Handbook 2018 David Lowe, Clive Pidgeon, 2018-02-03. Now in its 48th edition, Lowe's Transport Manager's and Operator's Handbook 2018 is the most comprehensive guide available to the operational rules and guidelines governing the UK, Ireland and the EU's road transport operators. This best-selling exclusive handbook is an essential reference and explores in detail the most pressing issues in today's road transport industry. It includes details on professional competence rules on working times and driving hours licensing and penalties insurance road traffic law maintenance advice and the international road haulage market. This manual includes guidance for drivers in the Republic of Ireland and mainland Europe along with the rules and penalties governing these regions. Lowe's Transport Manager's and Operator's Handbook 2018 is the essential reference source for any transport manager fleet operator owner driver haulier or student with an involvement in the industry. This new edition has been thoroughly updated and revised to reflect the latest developments in legislation and regulations including information on driving test changes the new Vehicle Operator Licensing System (VOL) new penalties for mobile phone use vehicle maintenance plans and the introduction of the Ultra Low Emission Zone (ULEZ) and T Charge in central London.

Manual de la técnica del automóvil Karl-Heinz Dietsche, 2005. Conocimientos técnicos de automoción. La 4ª edición ha sido revisada por completo. Extracto de los nuevos contenidos: Mando de los motores Otto reestructurado y actualizado. Sistemas de estabilización del vehículo para turismos con nuevas funciones de ABS y del programa electrónico de estabilidad ESP. Sistemas de asistencia al conductor. Dinámica transversal del vehículo base del programa electrónico de estabilidad ESP. Diagnóstico de a bordo OBD. Fundamentos legales y realización de Gestión electrónica de frenos en los vehículos industriales como plataforma para sistemas de asistencia al conductor. Dinámica transversal del vehículo base del programa electrónico de estabilidad ESP. Diagnóstico de a bordo OBD. Fundamentos legales y realización de Gestión electrónica de frenos en los vehículos industriales como plataforma para sistemas de asistencia al conductor. Transmisión analógica y digital de señales. Sistemas multimedia. Métodos de desarrollo y procedimientos. Herramientas para el desarrollo de hardware y software. Diseño del sonido y técnicas aerodinámicas para vehículos. Gestión medioambiental.

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Official Gazette of the United States Patent and Trademark Office United States. Patent and Trademark Office, 2002

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