



WE UPGRADE GAS ENGINES



TIMING MARK FOR MAN GAS ENGINES

INSTALLATION INSTRUCTION



Copyright

© Copyright 2011 MOTORTECH GmbH. All rights reserved.

Distribution and reproduction of this publication or parts thereof, regardless of the specific purpose and form, are not permissible without express written approval by MOTORTECH. Information contained in this publication may be changed without prior notice.

Trademarks

All trademarks and logos displayed or used in this publication are the property of the respective entitled party.

TABLE OF CONTENTS

1 General Information	4
1.1 What is the Purpose of this Installation Instruction?	4
1.2 Who is this Installation Instruction targeted to?	4
1.3 Which Symbols are used in the Installation Instruction?	4
2 Safety Instructions	6
3 Installation Instructions.....	7
3.1 MAN E2842E.....	7
3.2 MAN E2876E/TE/LE, E2848LE, E2842LE	11

1 GENERAL INFORMATION

Prior to use, read this installation instruction carefully and familiarize yourself with the product. The installation and start-up should not be performed without reading and understanding this document. Keep this manual readily available so that you can reference it as needed.

1.1 What is the Purpose of this Installation Instruction?

This instruction serves as an aid for the installation of the product and supports the technical staff with all maintenance tasks to be performed. Furthermore, this instruction is aimed at preventing dangers to life and health of the user and third parties.

1.2 Who is this Installation Instruction targeted to?

The installation instruction provides a code of conduct for personnel tasked with the set-up, operation, maintenance, and repair of gas engines. A certain level of technical knowledge with respect to the operation of gas engines and basic knowledge of electronic ignition systems are necessary. Persons who are merely authorized to operate the gas engine shall be trained by the operating company and shall be expressly instructed concerning potential hazards.

1.3 Which Symbols are used in the Installation Instruction?

The following symbols are used in this instruction and shall be observed:



Example

This symbol marks examples that illustrate the necessary steps and techniques for you. Furthermore, the examples provide you with supplemental information to increase your knowledge.



Notice

This symbol marks important information for the operator. Follow these instructions. Additionally, this symbol is used for overviews that provide you with a summary of the required work steps.



Warning

This symbol marks warnings of potential risks of property damage or danger to health. Read these warning notices carefully and take the stated safety precautions.



Danger

This symbol warns of danger to life, especially due to high voltage. Read these warning notices carefully and take the stated safety precautions.

2 SAFETY INSTRUCTIONS

All installation tasks are performed on a gas engine. Therefore follow all safety instructions of the system manufacturer, especially in areas with high voltage. All work must be performed by trained and authorized personnel, only.



Risk of damage!

All works described in this instruction have to be done very carefully, because they will have a direct effect on the timing and therefore on the ignition of the engine.

3 INSTALLATION INSTRUCTIONS

3.1 MAN E2842E



Adjustment

For the adjustment pay attention to the following instructions:

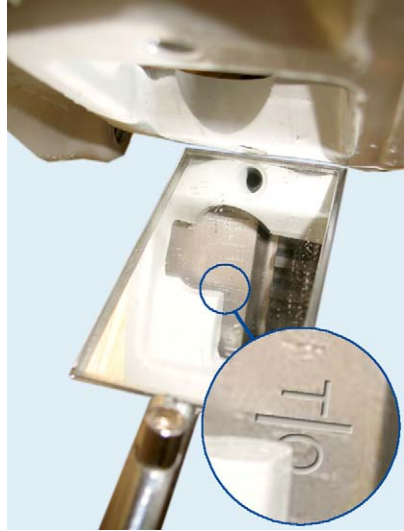
- Crank the engine by hand only.
- Once the flywheel is set to TDC (Top Dead Center) do not rotate until installation is complete.

1. Remove the cover by loosening the three fastening screws (M8 and M10).



3 INSTALLATION INSTRUCTIONS

2. Turn the engine to TDC by hand. Use a mirror to check the position of the mark on the flywheel under the engine. TDC is marked with OT (you see TO in the mirror).



3. Remove the steel plate with the holes from the shaft end.



4. Remove the adaptor flange with a pressure tool. Ensure that the flywheel does not turn.

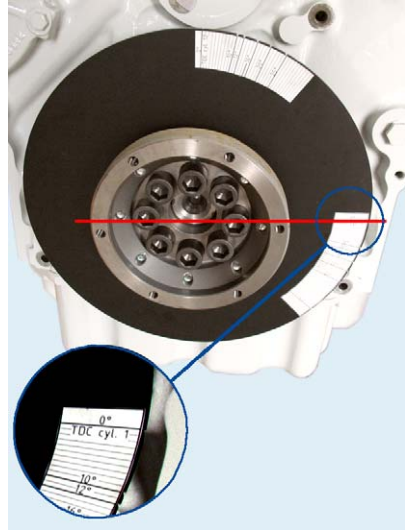


5. Install the wheel with the timing mark on the adaptor flange:
 - Use the eight screws with washer and split ring.
 - Tighten the screws crosswise.



3 INSTALLATION INSTRUCTIONS

6. Install the wheel and the flange on the crankshaft again:
 - Slide the wheel and the flange on the crankshaft.
 - Turn the wheel with the timing mark so that the 0° mark (TDC cyl. 1) is horizontal.
 - Fasten the flange with the eight screws (fastening torque 260Nm, tighten crosswise).
7. Install the new cover.



3.2 MAN E2876E/TE/LE, E2848LE, E2842LE

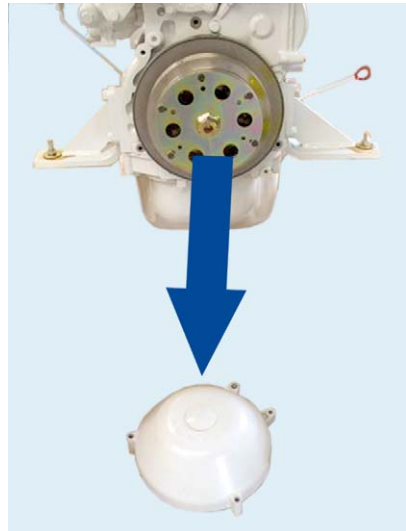


Adjustment

For the adjustment pay attention to the following instructions:

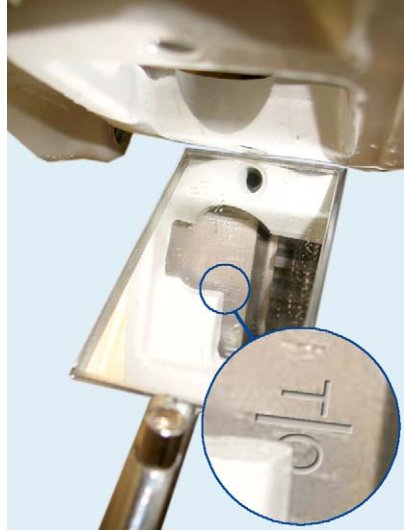
- Crank the engine by hand only.
- Once the flywheel is set to TDC (Top Dead Center) do not rotate until installation is complete.

1. Remove the cover by loosening the three fastening screws (M8 and M10).

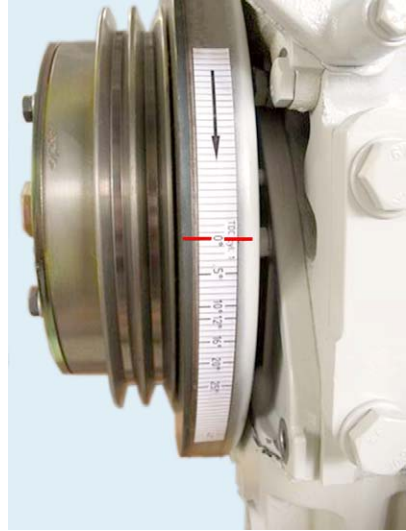


3 INSTALLATION INSTRUCTIONS

2. Turn the engine to TDC (Top Dead Center) by hand. Use a mirror to check the position of the mark on the flywheel under the engine. TDC is marked with OT (you see TO in the mirror).
3. Mount the new cover and mark the position of TDC on the flywheel directly above the small steel plate with a permanent marker.
4. Remove the cover again.



5. Stick the supplied label on the flywheel, so that the 0° mark covers the marked line exactly.
6. Install the new cover finally.



WE UPGRADE GAS ENGINES

Original MOTORTECH Accessories for Stationary Gas Engines

As a supplier, MOTORTECH develops, manufactures and distributes accessories as well as spare and wearing parts for nearly all kind of stationary gas engines worldwide: Ignition control and monitoring, industrial spark plugs and high tension leads, wiring systems and gas regulation – from detonation to speed control and complete gas engine management. On-site support and special training courses complete our service.



MOTORTECH GmbH
Hogrevestr. 21-23
29223 Celle
Phone: +49 5141 9399 0
Fax: +49 5141 9399 99
www.motortech.de
motortech@motortech.de

MOTORTECH AMERICAS LLC
1400 Dealers Avenue
New Orleans, LA 70123
Phone: +1 504 355 4212
Fax: +1 504 355 4217
www.motortechamericas.com
info@motortechamericas.com