

# SHOP MANUAL

**KOMATSU**

**82E-98E  
SERIES**

**DIESEL ENGINE**

## **PREFACE**

This manual describes the service procedures for the 82E – 98E series engines of indirect injection system.

Please use this manual for accurate, quick and safe servicing of the said engine. Since the explanation in this manual assumes the standard type engine, the specifications and components may partially be different from the engine installed on individual machine. Please also refer to the shop manual for each machine for details.

**LIST OF REVISED PAGES**

The affected pages are indicated by the use of the following marks. It is requested that necessary actions be taken to these pages according to the table below.

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○	Page to be newly added	Add
●	Page to be replaced	Replace
( )	Page to be deleted	Discard

Pages having no marks are those previously revised or made additions.


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## SAFETY LABELS

- Most accidents are caused by negligence of basic safety rules and precautions. For accident prevention, it is important to avoid such causes before development to accidents.  
Please read this manual carefully before starting repair or maintenance to fully understand safety precautions and appropriate inspection and maintenance procedures.  
Attempting at a repair or maintenance job without sufficient knowledge may cause an unexpected accident.
- It is impossible to cover every possible danger in repair or maintenance in the manual. Sufficient consideration for safety is required in addition to the matters marked . Especially for safety precautions in a repair or maintenance job not described in this manual, receive instructions from a knowledgeable leader.
- Safety marks used in this manual and their meanings are as follows:



**DANGER** – indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.



**WARNING** – indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.



**CAUTION** – indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.

- **NOTICE** – indicates that if not observed, the product performance or quality may not be guaranteed.

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