

Operation & Maintenance Manual

VEAM410104

PW140-7
PW160-7
PW180-7
PW200-7
PW220-7

ORIGINAL INSTRUCTIONS



DANGER

Incorrect operation and maintenance of this machine may be hazardous and cause injuries. The operator and maintenance personnel must read this manual before commencing operation or maintenance. Keep this manual within reach at all times and ensure that operating personnel read it at regular intervals.

NOTE

KOMATSU has had this Operation and Maintenance Manual translated into all languages used in the European Union. Please contact your KOMATSU distributor if you need a manual in another language.

WHEELED EXCAVATOR

SERIAL NUMBERS

| | |
|---------|---------------|
| PW140-7 | H55051 and up |
| PW160-7 | H55051 and up |
| PW180-7 | H55051 and up |
| PW200-7 | H55051 and up |
| PW220-7 | H65051 and up |

1.7 Contents

| | | |
|-----------|---|------------|
| 1. | Foreword | 1-1 |
| 1.1 | Foreword | 1-2 |
| 1.1.1 | EU Directives..... | 1-3 |
| 1.2 | Safety information | 1-4 |
| 1.2.1 | Signal words..... | 1-4 |
| 1.2.2 | Safety labels..... | 1-6 |
| 1.2.3 | Emergency steering..... | 1-7 |
| 1.2.4 | Emergency braking..... | 1-7 |
| 1.3 | Introduction | 1-8 |
| 1.3.1 | Use of machine..... | 1-8 |
| 1.3.2 | Intended use..... | 1-8 |
| 1.3.3 | Directions of machine..... | 1-9 |
| 1.3.4 | Running in your new machine..... | 1-10 |
| 1.4 | Necessary information | 1-11 |
| 1.4.1 | Product Identification Number (PIN)/Machine serial no. plate and position..... | 1-11 |
| 1.4.2 | Engine serial no. plate and position..... | 1-12 |
| 1.4.3 | Position of service meter..... | 1-12 |
| 1.4.4 | Table to enter serial no. and distributor..... | 1-13 |
| 1.5 | Declaration of conformity (for machines placed on the market as from 29th December 2009) | 1-14 |
| 1.6 | Noise | 1-15 |
| 1.6.1 | Noise emission levels..... | 1-15 |
| 1.6.2 | Vibration levels..... | 1-16 |
| | Operating condition:..... | 1-16 |
| | Guide to reduce vibration levels on machine..... | 1-16 |
| 1.7 | Contents | 1-18 |
| 2. | Safety | 2-1 |
| 2.1 | Safety labels | 2-2 |
| 2.1.1 | Location of safety labels..... | 2-2 |
| 2.2 | General precautions | 2-10 |
| | Understanding the machine..... | 2-10 |
| 2.2.1 | Precautions before starting operation..... | 2-10 |
| | Ensuring safe operation..... | 2-10 |
| 2.2.2 | Preparations for safe operation..... | 2-11 |
| | Precautions regarding safety-related equipment..... | 2-11 |
| | If any problem is found..... | 2-11 |
| | Wear well-fitting clothes and protective equipment..... | 2-11 |
| | Keep machine clean..... | 2-11 |
| | Precautions inside operator's compartment..... | 2-12 |
| | Provide fire extinguisher and first aid kit..... | 2-12 |

| | | |
|------------|--|-------------|
| 2.2.3 | Fire prevention | 2-13 |
| | Action if fire occurs | 2-13 |
| | Precautions to prevent fire | 2-13 |
| 2.2.4 | Precautions when getting on or off machine | 2-15 |
| | Use handrails and steps when getting on or off machine. | 2-15 |
| | No jumping on or off machine | 2-15 |
| | Precautions when standing up from operator's seat | 2-16 |
| | Always chock the wheels before going under the machine | 2-16 |
| | Emergency exit from operator's cab. | 2-17 |
| 2.2.5 | Do not get caught in articulated portion | 2-18 |
| | Precautions related to protective structures | 2-18 |
| 2.2.6 | Unauthorized modification | 2-20 |
| 2.2.7 | Precautions related to attachments and options | 2-20 |
| 2.2.8 | Precautions when running engine inside building | 2-20 |
| 2.3 | Precautions for operation | 2-21 |
| 2.3.1 | Precautions for jobsite | 2-21 |
| | Investigate and confirm jobsite conditions | 2-21 |
| | Working on loose ground | 2-22 |
| | Do not go close to high-voltage cables | 2-23 |
| | Ensure good visibility | 2-24 |
| | Checking signalman's signals and signs | 2-24 |
| | Beware of asbestos dust | 2-25 |
| 2.3.2 | Starting engine | 2-25 |
| | Warning tag | 2-25 |
| | Inspection and maintenance before starting engine. | 2-26 |
| | Precautions when starting engine | 2-27 |
| | Check direction before starting machine | 2-27 |
| | Precautions in cold areas | 2-27 |
| | Starting with booster cables | 2-28 |
| 2.3.3 | Operation | 2-29 |
| | Checks before operation | 2-29 |
| | Precautions when travelling in forward or reverse | 2-30 |
| | Precautions when travelling | 2-31 |
| | Travelling on slopes | 2-32 |
| | Operations on slopes | 2-33 |
| | Prohibited operations | 2-34 |
| | Travelling on snow-covered or frozen surfaces | 2-35 |
| | Working on loose ground | 2-35 |
| | Do not hit the operator cab (for two piece boom only) | 2-35 |
| | Parking machine. | 2-36 |
| 2.3.4 | Transportation | 2-37 |
| | Loading and unloading | 2-37 |
| 2.3.5 | Towing | 2-38 |
| | Precautions when towing | 2-38 |
| 2.3.6 | Bucket with hook or bucket link with lifting eye | 2-41 |
| | General precautions | 2-41 |
| | Precautions for lifting operation | 2-44 |
| 2.3.7 | Handling of fluids | 2-45 |
| | Handling of used engine oils | 2-45 |