



WARNING

CALIFORNIA PROPOSITION 65

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

For more information go the www.P65warnings.ca.gov/diesel.

91K4-07310-EN

⚠ Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

* For more information go to www.P65warnings.ca.gov/diesel.

CONTENTS

Foreword	0-1	7. Operation in the special work sites	4-15		
Emission-related components warranty (USA and CANADA only)	0-2	8. Normal operation of excavator	4-17		
Before servicing this machine	0-3	9. Attachment lowering	4-18		
EC regulation approved	0-4	10. Storage	4-19		
Table to enter S/No and distributor	0-5	11. RCV lever operating pattern	4-21		
Safety labels	0-6	12. Handling the rubber track	4-22		
Machine data plate	0-19	13. Switching hydraulic attachment circuit	4-27		
Guide (Direction, S/No, Intended use symbol) ·	0-20				
1. SAFETY HINTS					
1. California proposition 65	1-1	1. Preparation for transportation	5-1		
2. Safety instructions	1-2	2. Loading the machine	5-2		
2. SPECIFICATIONS					
1. Major components	2-1	3. Fixing the machine	5-4		
2. Specifications	2-2	4. Loading and unloading by crane	5-5		
3. Working range	2-4	5. Dimension and weight	5-6		
4. Weight	2-6				
5. Lifting capacities	2-7	6. MAINTENANCE			
6. Bucket selection guide	2-15	1. Instruction	6-1		
7. Undercarriage	2-16	2. Tightening torque	6-5		
8. Specification for major components	2-18	3. Fuel, coolant and lubricants	6-8		
9. Recommended oils	2-21	4. Maintenance check list	6-9		
3. CONTROL DEVICES					
1. Cab devices	3-1	5. Maintenance chart	6-14		
2. Cluster	3-2	6. Service instruction	6-16		
3. Switches	3-22	7. Electrical system	6-34		
4. Levers and pedals	3-26				
5. Others	3-29	7. TROUBLESHOOTING GUIDE			
4. OPERATION					
1. Instruction for new machine	4-1	1. Engine	7-1		
2. Check before starting the engine	4-2	2. Electrical system	7-2		
3. Starting and stopping the engine	4-3	3. Others	7-3		
4. Operation of the working device	4-7				
5. Traveling of the machine	4-8	8. HYDRAULIC BREAKER AND QUICK COUPLER			
6. Efficient working method	4-11	1. Selecting hydraulic breaker	8-1		
		2. Circuit configuration	8-2		
		3. Maintenance	8-3		
		4. Precaution when operating the breaker	8-4		
		5. Quick coupler	8-10		
		INDEX	9-1		