



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	3. Fuel, coolant and lubricants	4-10
Emission-related components warranty (USA and CANADA only)	0-2	4. Maintenance check list	4-11
Before servicing this machine	0-3	5. Maintenance chart	4-17
EC regulation approved	0-4	6. Service instruction	4-20
Table to enter S/No and distribution	0-5	7. Electrical system	4-55
Machine data plate	0-6	8. Air conditioner and heater	4-58
Guide (direction, S/No, symbol)	0-7		
SAFETY HINTS			
1. Safety instructions	1-2	1. Preparation for transportation	5-1
2. Safety labels	1-31	2. Dimension and weight	5-2
OPERATION			
1. Instruction for new machine	2-1	3. Loading the machine	5-10
2. Check before starting the engine	2-2	4. Fixing the machine	5-12
3. Starting and stopping the engine	2-3	5. Loading and unloading by crane	5-13
4. Mode selection system	2-7	6. Disassemble for transportation	5-14
5. Operation of the working device	2-12	7. Adjustable track gauge (HX520A L only)	5-17
6. Traveling of the machine	2-13		
7. Efficient working method	2-16		
8. Operation in the special work sites	2-20		
9. Normal operation of excavator	2-22		
10. Attachment lowering	2-23		
11. Storage	2-24		
12. RCV lever operating pattern	2-26		
13. Exhaust system cleaning	2-28		
CONTROL DEVICES			
1. Cab devices	3-1	1. Major components	7-1
2. Cluster	3-2	2. Specifications	7-2
3. Switches	3-42	3. Working range	7-10
4. Levers and pedals	3-47	4. Weight	7-14
5. Others	3-49	5. Lifting capacities	7-15
6. 2DMG+ system	3-81	6. Bucket selection guide	7-29
MAINTENANCE			
1. Instruction	4-1	7. Undercarriage	7-37
2. Tightening torque	4-6	8. Specification for major components	7-39
OPTION ATTACH AND DEVICE			
1. Hydraulic breaker	8-1	9. Recommended oils	7-42
2. Quick coupler	8-6		
3. Removable counterweight	8-8		
INDEX			
			9-1