

CONTENTS

Foreword	0-1	6. Efficient working method	4-11																																																																																										
Emission-related components warranty (USA and CANADA only)	0-1-1	7. Operation in the special work sites	4-15																																																																																										
Before servicing this machine	0-2	8. Normal operation of excavator	4-17																																																																																										
EC regulation approved	0-3	9. Attachment lowering	4-18																																																																																										
Table to enter S/No and distribution	0-4	10. Storage	4-19																																																																																										
Safety labels	0-5	11. RCV lever operating pattern	4-21																																																																																										
Machine data plate	0-14	12. Switching hydraulic attachment circuit	4-23																																																																																										
Guide (direction, S/No, Symbol)	0-15	13. Handling the rubber tracks	4-24																																																																																										
1. SAFETY HINTS																																																																																													
1. California proposition 65	1-1	1. Preparation for transportation	5-1																																																																																										
2. Safety rules	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	2-3	5. Dimension and weight	5-6																																																																																										
4. Weight	2-4	3. CONTROL DEVICES																																																																																											
5. Lifting capacities	2-5	6. Bucket selection guide	2-7	1. Canopy / Cab devices	3-1	7. Undercarriage	2-8	2. Cluster	3-3	8. Specification for major components	2-9	3. Switches	3-9	9. Recommended oils	2-12	4. Levers and pedals	3-13	4. OPERATION				1. Suggestion for new machine	4-1	5. Heater	3-16	2. Check before starting the engine	4-2	6. Others	3-17	3. Starting and stop the engine	4-3	5. TRANSPORTATION				4. Operation of the working device	4-7	5. Traveling of the machine	4-8	1. Preparation for transportation	5-1	6. MAINTENANCE				1. Instruction	6-1	2. Tightening torque	6-5	2. Fuel, coolant and lubricants	6-8	3. Maintenance check list	6-10	3. Maintenance chart	6-15	5. Maintenance chart	6-15	4. Service instruction	6-17	6. Electrical system	6-17	5. Electrical system	6-33	7. TROUBLESHOOTING GUIDE				1. Engine	7-1	2. Electrical system	7-2	1. Engine	7-1	3. Others	7-3	2. Electrical system	7-2	8. HYDRAULIC BREAKER				1. Selecting hydraulic breaker	8-1	3. Maintenance	8-3	2. Circuit configuration	8-2	4. Precaution when operating the breaker	8-4	3. Maintenance	8-3	5. Quick coupler	8-6
6. Bucket selection guide	2-7	1. Canopy / Cab devices	3-1																																																																																										
7. Undercarriage	2-8	2. Cluster	3-3																																																																																										
8. Specification for major components	2-9	3. Switches	3-9																																																																																										
9. Recommended oils	2-12	4. Levers and pedals	3-13																																																																																										
4. OPERATION																																																																																													
1. Suggestion for new machine	4-1	5. Heater	3-16																																																																																										
2. Check before starting the engine	4-2	6. Others	3-17																																																																																										
3. Starting and stop the engine	4-3	5. TRANSPORTATION																																																																																											
4. Operation of the working device	4-7	5. Traveling of the machine	4-8	1. Preparation for transportation	5-1	6. MAINTENANCE				1. Instruction	6-1	2. Tightening torque	6-5	2. Fuel, coolant and lubricants	6-8	3. Maintenance check list	6-10	3. Maintenance chart	6-15	5. Maintenance chart	6-15	4. Service instruction	6-17	6. Electrical system	6-17	5. Electrical system	6-33	7. TROUBLESHOOTING GUIDE				1. Engine	7-1	2. Electrical system	7-2	1. Engine	7-1	3. Others	7-3	2. Electrical system	7-2	8. HYDRAULIC BREAKER				1. Selecting hydraulic breaker	8-1	3. Maintenance	8-3	2. Circuit configuration	8-2	4. Precaution when operating the breaker	8-4	3. Maintenance	8-3	5. Quick coupler	8-6																																				
5. Traveling of the machine	4-8	1. Preparation for transportation	5-1																																																																																										
6. MAINTENANCE																																																																																													
1. Instruction	6-1	2. Tightening torque	6-5																																																																																										
2. Fuel, coolant and lubricants	6-8	3. Maintenance check list	6-10																																																																																										
3. Maintenance chart	6-15	5. Maintenance chart	6-15																																																																																										
4. Service instruction	6-17	6. Electrical system	6-17																																																																																										
5. Electrical system	6-33	7. TROUBLESHOOTING GUIDE																																																																																											
1. Engine	7-1	2. Electrical system	7-2	1. Engine	7-1	3. Others	7-3	2. Electrical system	7-2	8. HYDRAULIC BREAKER				1. Selecting hydraulic breaker	8-1	3. Maintenance	8-3	2. Circuit configuration	8-2	4. Precaution when operating the breaker	8-4	3. Maintenance	8-3	5. Quick coupler	8-6																																																																				
2. Electrical system	7-2	1. Engine	7-1																																																																																										
3. Others	7-3	2. Electrical system	7-2																																																																																										
8. HYDRAULIC BREAKER																																																																																													
1. Selecting hydraulic breaker	8-1	3. Maintenance	8-3																																																																																										
2. Circuit configuration	8-2	4. Precaution when operating the breaker	8-4																																																																																										
3. Maintenance	8-3	5. Quick coupler	8-6																																																																																										