

CONTENTS

Foreword	0-1	6. Traveling of the machine	4-13
Emission-related components warranty (USA and CANADA only)	0-1-1	7. Efficient working method	4-16
Before servicing this machine	0-2	8. Operation in the special work sites	4-20
EC regulation approved	0-3	9. Normal operation of excavator	4-22
Table to enter S/No and distribution	0-4	10. Attachment lowering	4-23
Safety labels	0-5	11. Storage	4-24
Machine data plate	0-20	12. RCV lever operating pattern	4-26
Guide (direction, S/No, symbol)	0-21		
SAFETY HINTS			
1. Before operating the machine	1-1	1. Preparation for transportation	5-1
2. During operating the machine	1-16	2. Dimension and weight	5-2
3. During maintenance	1-23	3. Loading the machine	5-5
4. Parking	1-26	4. Fixing the machine	5-7
5. Loading and unloading by crane	5-8		
SPECIFICATIONS			
1. Major components	2-1	1. Instruction	6-1
2. Specifications	2-2	2. Tightening torque	6-6
3. Working range	2-6	3. Fuel, coolant and lubricants	6-9
4. Weight	2-10	4. Maintenance check list	6-11
5. Lifting capacities	2-12	5. Maintenance chart	6-16
6. Bucket selection guide	2-15	6. Service instruction	6-18
7. Undercarriage	2-21	7. Electrical system	6-42
8. Specification for major components	2-23	8. Air conditioner and heater	6-45
9. Recommended oils	2-26		
CONTROL DEVICES			
1. Cab devices	3-1	1. Engine	7-1
2. Cluster	3-2	2. Electrical system	7-2
3. Switches	3-35	3. Others	7-3
4. Levers and pedals	3-40		
5. Others	3-43		
OPERATION			
1. Suggestion for new machine	4-1	1. Selecting hydraulic breaker	8-1
2. Check before starting the engine	4-2	2. Circuit configuration	8-2
3. Starting and stop the engine	4-3	3. Maintenance	8-3
4. Mode selection system	4-7	4. Precaution while operating the breaker	8-4
5. Operation of the working device	4-12	5. Quick clamp	8-6
INDEX 9-1			