

# CONTENTS

Foreword .....	0-1	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 .....	0-19	12. RCV lever operating pattern .....	4-26	
Guide (direction, S/No, symbol) .....	0-20	13. Switching hydraulic attachment circuit .....	4-28	
14. Regeneration system .....	4-29			
<b>SAFETY HINTS</b>				
1. Before operating the machine .....	1-1	<b>TRANSPORTATION</b>		
2. During operating the machine .....	1-16	1. Preparation for transportation .....	5-1	
3. During maintenance .....	1-23	2. Dimension and weight .....	5-2	
4. Parking .....	1-26	3. Loading the machine .....	5-5	
<b>SPECIFICATIONS</b>				
1. Major components .....	2-1	4. Fixing the machine .....	5-8	
2. Specifications .....	2-2	5. Loading and unloading by crane .....	5-9	
3. Working range .....	2-5	<b>MAINTENANCE</b>		
4. Weight .....	2-7	1. Instruction .....	6-1	
5. Lifting capacities .....	2-9	2. Tightening torque .....	6-6	
6. Bucket selection guide .....	2-12	3. Fuel, coolant and lubricants .....	6-9	
7. Undercarriage .....	2-14	4. Maintenance check list .....	6-11	
8. Specification for major components .....	2-16	5. Maintenance chart .....	6-16	
9. Recommended oils .....	2-19	6. Service instruction .....	6-18	
<b>CONTROL DEVICES</b>				
1. Cab devices .....	3-1	7. Electrical system .....	6-42	
2. Cluster .....	3-2	8. Air conditioner and heater .....	6-45	
3. Switches .....	3-27	<b>TROUBLESHOOTING GUIDE</b>		
4. Levers and pedals .....	3-32	1. Engine .....	7-1	
5. Air conditioner and heater .....	3-34	2. Electrical system .....	7-2	
6. Others .....	3-38	3. Others .....	7-3	
<b>OPERATION</b>				
1. Suggestion for new machine .....	4-1	<b>HYDRAULIC BREAKER AND QUICK CLAMP</b>		
2. Check before starting the engine .....	4-2	1. Selecting hydraulic breaker .....	8-1	
3. Starting and stop the engine .....	4-3	2. Circuit configuration .....	8-2	
4. Mode selection system .....	4-7	3. Maintenance .....	8-3	
5. Operation of the working device .....	4-12	4. Precaution while operating the breaker .....	8-4	
6. Traveling of the machine .....	4-13	5. Quick clamp .....	8-6	
		INDEX .....	9-1	