

# CONTENTS

Foreword .....	0-1	7. Efficient working method .....	4-15
Before servicing this machine .....	0-2	8. Operation in the special work sites .....	4-19
Table to enter S/No and distribution .....	0-3	9. Normal operation of excavator .....	4-21
Safety labels .....	0-4	10. Attachment lowering .....	4-22
Guide(Direction, S/No, Symbol) .....	0-13	11. Storage .....	4-23
<b>SAFETY HINTS</b>		12. RCV lever operating pattern .....	4-25
1. Before operating the machine .....	1-1	13. Switching hydraulic attachment circuit .....	4-26
2. During operating the machine .....	1-6		
3. During maintenance .....	1-13		
4. Parking .....	1-16		
<b>SPECIFICATIONS</b>			
1. Major components .....	2-1	<b>TRANSPORTATION</b>	
2. Specifications .....	2-2	1. Preparation for transportation .....	5-1
3. Working range .....	2-3	2. Dimension and weight .....	5-2
4. Weight .....	2-4	3. Loading the machine .....	5-4
5. Lifting capacities .....	2-5	4. Fixing the machine .....	5-6
6. Bucket selection guide .....	2-8	5. Loading and unloading by crane .....	5-7
7. Undercarriage .....	2-10		
8. Specification for major components .....	2-12		
9. Recommended oils .....	2-16	<b>MAINTENANCE</b>	
<b>CONTROL DEVICES</b>		1. Instruction .....	6-1
1. Cab devices .....	3-1	2. Tightening torque .....	6-6
2. Cluster .....	3-2	3. Fuel, coolant and lubricants .....	6-9
3. Switches .....	3-8	4. Maintenance check list .....	6-11
4. Levers and pedals .....	3-12	5. Maintenance chart .....	6-16
5. Air conditioner and heater .....	3-14	6. Service instruction .....	6-18
6. Others .....	3-16	7. Electrical system .....	6-41
		8. Air conditioner and heater .....	6-44
<b>OPERATION</b>			
1. Suggestion for new machine .....	4-1	<b>TROUBLESHOOTING GUIDE</b>	
2. Check before starting the engine .....	4-2	1. Engine .....	7-1
3. Starting and stop the engine .....	4-3	2. Electrical system .....	7-2
4. Mode selection system .....	4-7	3. Others .....	7-3
5. Operation of the working device .....	4-11		
6. Traveling of the machine .....	4-12		
		<b>HYDRAULIC BREAKER</b>	
		1. Selecting hydraulic breaker .....	8-1
		2. Circuit configuration .....	8-2
		3. Maintenance .....	8-3
		4. Precaution while operating the breaker .....	8-4
		<b>INDEX</b> .....	9-1