

CONTENTS

Foreword	0-1	5. Maintenance chart	4-15	
Before servicing this machine	0-2	6. Service instruction	4-18	
Table to enter S/No and distribution	0-3	7. Electrical system	4-50	
Machine data plate	0-4	8. Air conditioner and heater	4-53	
Guide (direction, S/No, symbol)	0-5			
SAFETY HINTS				
1. Safety instructions	1-2			
2. Safety labels	1-31			
OPERATION				
1. Instruction for new machine	2-1			
2. Check before starting the engine	2-2			
3. Starting and stopping the engine	2-3			
4. Mode selection system	2-7			
5. Operation of the working device	2-12			
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			
CONTROL DEVICES				
1. Cab devices	3-1			
2. Cluster	3-2			
3. Switches	3-33			
4. Levers and pedals	3-38			
5. Air conditioner and heater	3-39			
6. Others	3-43			
MAINTENANCE				
1. Instruction	4-1			
2. Tightening torque	4-6			
3. Fuel, coolant and lubricants	4-9			
4. Maintenance check list	4-10			
TRANSPORTATION				
1. Preparation for transportation	5-1			
2. Dimension and weight	5-2			
3. Loading the machine	5-5			
4. Fixing the machine	5-7			
5. Loading and unloading by crane	5-8			
TROUBLESHOOTING GUIDE				
1. Engine	6-1			
2. Electrical system	6-2			
3. Others	6-3			
SPECIFICATIONS				
1. Major components	7-1			
2. Specifications	7-2			
3. Working range	7-6			
4. Weight	7-8			
5. Lifting capacities	7-9			
6. Bucket selection guide	7-19			
7. Undercarriage	7-26			
8. Specification for major components	7-28			
9. Recommended oils	7-31			
HYDRAULIC BREAKER AND QUICK CLAMP				
1. Selecting hydraulic breaker	8-1			
2. Circuit configuration	8-2			
3. Maintenance	8-3			
4. Precaution while operating the breaker	8-4			
5. Quick clamp	8-6			
INDEX				9-1