

CONTENTS

Foreword	0-1	6. Traveling of the machine	4-13			
Before servicing this machine	0-2	7. Efficient working method	4-16			
Table to enter S/No and distribution	0-3	8. Operation in the special work sites	4-20			
Safety labels	0-4	9. Normal operation of excavator	4-22			
Machine data plate	0-19	10. Attachment lowering	4-23			
Guide (direction, S/No, symbol)	0-20	11. Storage	4-24			
		12. RCV lever operating pattern	4-26			
SAFETY HINTS						
1. Before operating the machine	1-1	TRANSPORTATION				
2. During operating the machine	1-15	1. Preparation for transportation	5-1			
3. During maintenance	1-22	2. Dimension and weight	5-2			
4. Parking	1-25	3. Loading the machine	5-4			
		4. Fixing the machine	5-6			
SPECIFICATIONS				5. Loading and unloading by crane	5-7	
1. Major components	2-1	MAINTENANCE				
2. Specifications	2-2	1. Instruction	6-1			
3. Working range	2-4	2. Tightening torque	6-6			
4. Weight	2-5	3. Fuel, coolant and lubricants	6-9			
5. Lifting capacities	2-6	4. Maintenance check list	6-11			
6. Bucket selection guide	2-11	5. Maintenance chart	6-16			
7. Undercarriage	2-13	6. Service instruction	6-18			
8. Specification for major components	2-15	7. Electrical system	6-44			
9. Recommended oils	2-18	8. Air conditioner and heater	6-47			
CONTROL DEVICES				TROUBLESHOOTING GUIDE		
1. Cab devices	3-1	1. Engine	7-1			
2. Cluster	3-2	2. Electrical system	7-2			
3. Switches	3-33	3. Others	7-3			
4. Levers and pedals	3-37	HYDRAULIC BREAKER AND QUICK CLAMP				
5. Air conditioner and heater	3-39	1. Selecting hydraulic breaker	8-1			
6. Others	3-43	2. Circuit configuration	8-2			
OPERATION				3. Maintenance	8-3	
1. Suggestion for new machine	4-1	4. Precaution while operating the breaker	8-4			
2. Check before starting the engine	4-2	5. Quick clamp	8-6			
3. Starting and stop the engine	4-3	INDEX				9-1
4. Mode selection system	4-7					
5. Operation of the working device	4-12					