

CONTENTS

Foreword	0-1	6. Efficient working method	4-11
Before servicing this machine	0-2	7. Operation in the special work sites	4-15
EC regulation approved	0-3	8. Normal operation of excavator	4-17
Table to enter S/No and distribution	0-4	9. Attachment lowering pattern	4-18
Safety labels	0-5	10. Storage	4-19
Machine data plate	0-14	11. RCV lever operating pattern	4-21
Guide (direction, S/No, symbol)	0-15		
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	5-4
4. Parking	1-26	4. Fixing the machine	5-6
5. Loading and unloading by crane	5-7		
SPECIFICATIONS			
1. Major components	2-1	1. Instruction	6-1
2. Specifications	2-2	2. Tightening torque	6-6
3. Working range	2-3	3. Fuel, coolant and lubricants	6-9
4. Weight	2-4	4. Maintenance check list	6-11
5. Lifting capacities	2-5	5. Maintenance chart	6-16
6. Bucket selection guide	2-7	6. Service instruction	6-18
7. Undercarriage	2-8	7. Electrical system	6-36
8. Specification for major components	2-9	8. Air conditioner and heater	6-39
9. Recommended oils	2-12		
CONTROL DEVICES			
1. Cab devices	3-1	1. Engine	7-1
2. Cluster	3-2	2. Electrical system	7-2
3. Switches	3-13	3. Others	7-3
4. Levers and pedals	3-18		
5. Full auto air conditioner and heater	3-21	HYDRAULIC BREAKER AND QUICK CLAMP	
6. Others	3-25	1. Selecting hydraulic breaker	8-1
OPERATION			
1. Suggestion for new machine	4-1	2. Circuit configuration	8-2
2. Check before starting the engine	4-2	3. Maintenance	8-3
3. Starting and stop the engine	4-3	4. Precaution while operating the breaker	8-4
4. Operation of the working device	4-7	5. Quick clamp	8-6
5. Traveling of the machine	4-8		
		INDEX	9-1