

CONTENTS

Foreword	0-1	5. Operation of the working device	4-21	
Before servicing this machine	0-2	6. Traveling of the machine	4-22	
EC regulation approved	0-3	7. Efficient working method	4-25	
Table to enter S/No and distribution	0-4	8. Operation in the special work sites	4-29	
Safety labels	0-5	9. Normal operation of excavator	4-31	
Machine data plate	0-18	10. Attachment lowering	4-32	
Guide (direction, S/No, symbol)	0-19	11. Storage	4-33	
SAFETY HINTS		12. RCV lever operating pattern	4-35	
1. Before operating the machine	1-1	13. Switching hydraulic attachment circuit	4-37	
2. During operating the machine	1-17	TRANSPORTATION		
3. During maintenance	1-24	1. Preparation for transportation	5-1	
4. Parking	1-27	2. Dimension and weight	5-2	
SPECIFICATIONS		3. Loading the machine	5-4	
1. Major components	2-1	4. Fixing the machine	5-6	
2. Specifications	2-2	5. Loading and unloading by crane	5-7	
3. Working range	2-3	MAINTENANCE		
4. Weight	2-4	1. Instruction	6-1	
5. Lifting capacities	2-5	2. Tightening torque	6-6	
6. Bucket selection guide	2-7	3. Fuel, coolant and lubricants	6-9	
7. Undercarriage	2-8	4. Maintenance check list	6-11	
8. Specification for major components	2-10	5. Maintenance chart	6-16	
9. Recommended oils	2-13	6. Service instruction	6-18	
CONTROL DEVICES		7. Electrical system	6-38	
1. Cab devices	3-1	8. Air conditioner and heater	6-41	
2. Cluster (TYPE 1)	3-2	TROUBLESHOOTING GUIDE		
2. Cluster (TYPE 2)	3-23	1. Engine	7-1	
3. Switches	3-34	2. Electrical system	7-2	
4. Levers and pedals	3-39	3. Others	7-3	
5. Air conditioner and heater	3-41	HYDRAULIC BREAKER AND QUICK CLAMP		
6. Others	3-45	1. Selecting hydraulic breaker	8-1	
OPERATION		2. Circuit configuration	8-2	
1. Suggestion for new machine	4-1	3. Maintenance	8-3	
2. Check before starting the engine	4-2	4. Precaution while operating the breaker	8-4	
3. Starting and stop the engine	4-3	5. Quick clamp	8-6	
4. Mode selection system	4-11	INDEX		9-1