

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	
EC regulation approved	0-3	9. Normal operation of excavator	4-21	
Table to enter S/No and distribution	0-4	10. Attachment lowering	4-22	
Safety labels	0-5	11. Storage	4-23	
Machine data plate	0-15	12. RCV lever operating pattern	4-25	
Guide(Direction, S/No, Symbol)	0-16	13. Switching hydraulic attachment circuit	4-26	
SAFETY HINTS		TRANSPORTATION		
1. Before operating the machine	1-1	1. Preparation for transportation.....	5-1	
2. During operating the machine	1-6	2. Dimension and weight	5-2	
3. During maintenance	1-13	3. Disassembling for transportation.....	5-6	
4. Parking	1-16	4. Loading the machine	5-9	
SPECIFICATIONS		5. Fixing the machine	5-11	
1. Major components	2-1	6. Adjustable track gauge	5-12	
2. Specifications	2-2	MAINTENANCE		
3. Working range	2-5	1. Instruction	6-1	
4. Weight	2-8	2. Tightening torque	6-6	
5. Lifting capacities	2-9	3. Fuel, coolant and lubricants	6-9	
6. Bucket selection guide	2-12	4. Maintenance check list	6-11	
7. Undercarriage	2-14	5. Maintenance chart	6-16	
8. Specification for major components	2-16	6. Service instruction	6-18	
9. Recommended oils	2-19	7. Electrical system	6-41	
CONTROL DEVICES		8. Air conditioner and heater	6-44	
1. Cab devices	3-1	TROUBLESHOOTING GUIDE		
2. Cluster	3-2	1. Engine	7-1	
3. Switches	3-13	2. Electrical system	7-2	
4. Levers and pedals	3-18	3. Others	7-3	
5. Air conditioner and heater	3-20	OTHERS		
6. Others	3-27	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	4-6	6. Central grease lubrication system	8-8	
5. Operation of working device	4-11	INDEX		9-1
6. Traveling of the machine	4-12			