

CONTENTS

Foreword	0-1	9. Normal operation of excavator	4-22
Before servicing this machine	0-2	10. Attachment lowering	4-23
EC regulation approved	0-3	11. Storage	4-24
Table to enter S/No and distribution	0-4	12. RCV lever operating pattern	4-26
Safety labels	0-5	13. Switching hydraulic attachment circuit	4-28
Machine data plate	0-18	14. Regeneration system	4-29
Guide (direction, S/No, symbol)	0-19		
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	5-8
4. Parking	1-26	4. Fixing the machine	5-10
SPECIFICATIONS			
1. Major components	2-1	5. Loading and unloading by crane	5-11
2. Specifications	2-2	6. Dissassemble for transportation	5-12
3. Working range	2-6	7. Adjustable track gauge (R520LC-9A only)....	5-15
4. Weight	2-12		
5. Lifting capacities	2-14	MAINTENANCE	
6. Bucket selection guide	2-16	1. Instruction	6-1
7. Undercarriage	2-20	2. Tightening torque	6-6
8. Specification for major components	2-24	3. Fuel, coolant and lubricants	6-10
9. Recommended oils	2-28	4. Maintenance check list	6-12
CONTROL DEVICES			
1. Cab devices	3-1	5. Maintenance chart	6-17
2. Cluster	3-2	6. Service instruction	6-19
3. Switches	3-27	7. Electrical system	6-43
4. Levers and pedals	3-32	8. Air conditioner and heater	6-46
5. Air conditioner and heater	3-34		
6. Others	3-38	TROUBLESHOOTING GUIDE	
OPERATION			
1. Suggestion for new machine	4-1	1. Engine	7-1
2. Check before starting the engine	4-2	2. Electrical system	7-2
3. Starting and stop the engine	4-3	3. Others	7-3
4. Mode selection system	4-7		
5. Operation of the working device	4-12	HYDRAULIC BREAKER AND QUICK CLAMP	
6. Traveling of the machine	4-13	1. Selecting hydraulic breaker	8-1
7. Efficient working method	4-16	2. Circuit configuration	8-2
8. Operation in the special work sites	4-20	3. Maintenance	8-3
		4. Precaution while operating the breaker	8-4
		5. Quick clamp	8-6
OTHERS			
		1. Semi auto grease lubrication system	9-1
		INDEX	
			10-1