

# CONTENTS

EC declaration of conformity .....	0-1	8. Operation in the special work sites .....	4-19
Foreword .....	0-2	9. Normal operation of excavator .....	4-21
Before servicing this machine .....	0-3	10. Attachment lowering .....	4-22
EC regulation approved .....	0-4	11. Storage .....	4-23
Table to enter S/No and distribution .....	0-5	12. RCV lever operating pattern .....	4-25
Safety labels .....	0-6	13. Switching hydraulic attachment circuit .....	4-27
Machine data plate .....	0-19		
Guide (direction, S/No, symbol) .....	0-20		
		<b>TRANSPORTATION</b>	
<b>SAFETY HINTS</b>		1. Preparation for transportation .....	5-1
1. Before operating the machine .....	1-1	2. Dimension and weight .....	5-2
2. During operating the machine .....	1-16	3. Disassembling for transportation .....	5-6
3. During maintenance .....	1-23	4. Loading the machine .....	5-9
4. Parking .....	1-26	5. Fixing the machine .....	5-11
		6. Adjustable track gauge .....	5-12
<b>SPECIFICATIONS</b>			
1. Major components .....	2-1	<b>MAINTENANCE</b>	
2. Specifications .....	2-2	1. Instruction .....	6-1
3. Working range .....	2-6	2. Tightening torque .....	6-6
4. Weight .....	2-10	3. Fuel, coolant and lubricants .....	6-9
5. Lifting capacities .....	2-11	4. Maintenance check list .....	6-11
6. Bucket selection guide .....	2-15	5. Maintenance chart .....	6-16
7. Undercarriage .....	2-17	6. Service instruction .....	6-18
8. Specification for major components .....	2-19	7. Electrical system .....	6-41
9. Recommended oils .....	2-22	8. Air conditioner and heater .....	6-44
<b>CONTROL DEVICES</b>		<b>TROUBLESHOOTING GUIDE</b>	
1. Cab devices .....	3-1	1. Engine .....	7-1
2. Cluster .....	3-2	2. Electrical system .....	7-2
3. Switches .....	3-23	3. Others .....	7-3
4. Levers and pedals .....	3-28		
5. Air conditioner and heater .....	3-30	<b>HYDRAULIC BREAKER AND QUICK CLAMP</b>	
6. Others .....	3-37	1. Selecting hydraulic breaker .....	8-1
		2. Circuit configuration .....	8-2
<b>OPERATION</b>		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		
4. Mode selection system .....	4-6	<b>OTHERS</b>	
5. Operation of the working device .....	4-11	1. Central grease lubrication system .....	9-1
6. Traveling of the machine .....	4-12	2. Semi auto grease lubrication system .....	9-13
7. Efficient working method .....	4-15		
		<b>INDEX</b> .....	10-1