

# CONTENTS

Foreword .....	0-1	<b>5. TRANSPORTATION</b>	
Before servicing this machine .....	0-2	1. Road traveling .....	5-1
Table to enter S/No and distribution .....	0-3	2. Preparation for transportation .....	5-2
Safety labels .....	0-4	3. Loading the machine .....	5-3
Machine data plate .....	0-13	4. Fixing the machine .....	5-4
Guide (direction, S/No, symbol) .....	0-14	5. Loading and unloading by crane .....	5-6
		6. Towing the machine .....	5-7
<b>1. SAFETY HINTS</b>			
1. Safety rules .....	1-1	<b>6. MAINTENANCE</b>	
<b>2. SPECIFICATIONS</b>			
1. Major components .....	2-1	1. Instructions .....	6-1
2. Specifications .....	2-2	2. Tightening torque .....	6-5
3. Weight .....	2-6	3. Spec of fuel, coolant and lubricants .....	6-8
4. Specification for major components .....	2-7	4. Maintenance check list .....	6-10
<b>3. CONTROL DEVICES</b>			
1. Cab devices .....	3-1	5. Maintenance chart .....	6-13
2. Cluster .....	3-2	6. Service instruction .....	6-15
3. Monitors .....	3-10	7. Electrical system .....	6-49
4. Switches .....	3-44	8. Air conditioner and heater .....	6-52
5. Control device .....	3-49	<b>7. TROUBLESHOOTING GUIDE</b>	
6. Air conditioner and heater .....	3-53	1. Engine .....	7-1
7. Others .....	3-56	2. Electrical system .....	7-2
<b>4. OPERATION</b>			
1. Suggestion for new machine .....	4-1	3. Power train system .....	7-3
2. Check before starting the engine .....	4-2	4. Hydraulic system .....	7-4
3. Starting and stop the engine .....	4-3	<b>8. OTHERS</b>	
4. Warming-up operation .....	4-8	1. Central grease lubrication system .....	8-1
5. Operation of the working device .....	4-9	2. Quick coupler .....	8-9
6. Traveling of the machine .....	4-10	<b>INDEX</b> .....	
7. Efficient working method .....	4-15		9-1
8. Adjustment of the work equipment .....	4-22		
9. Operation in the special work sites .....	4-23		
10. Storage .....	4-25		
11. Open the engine hood .....	4-27		
12. Attachment manually lowering .....	4-30		