

# 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
EC regulation approved .....	0-4	3. Loading the machine .....	5-3
Safety labels .....	0-5	4. Fixing the machine .....	5-4
Machine data plate .....	0-12	5. Loading and unloading by crane .....	5-6
Guide(Direction, S/No, Symbol) .....	0-13	6. Towing the machine .....	5-7
<b>1. SAFETY HINTS</b>		<b>6. MAINTENANCE</b>	
1. Before operating the machine .....	1-1	1. Instructions .....	6-1
2. During operating the machine .....	1-5	2. Tightening torque .....	6-5
3. During maintenance .....	1-14	3. Specification of fuel, coolant and lubricants .....	6-8
4. Parking .....	1-18	4. Maintenance check list .....	6-10
<b>2. SPECIFICATIONS</b>		5. Maintenance chart .....	6-13
1. Major components .....	2-1	6. Service instruction .....	6-15
2. Specifications .....	2-2	7. Electrical system .....	6-44
3. Weight .....	2-6	8. Air conditioner and heater .....	6-47
4. Specification for major components .....	2-7	<b>7. TROUBLESHOOTING GUIDE</b>	
<b>3. CONTROL DEVICES</b>		1. Engine .....	7-1
1. Cab devices .....	3-1	2. Electrical system .....	7-2
2. Cluster .....	3-2	3. Power train system .....	7-3
3. Switches .....	3-14	4. Hydraulic system .....	7-4
4. Control device .....	3-19	<b>8. INDEX</b> .....	8-1
5. Air conditioner and heater .....	3-22		
6. Others .....	3-25		
<b>4. OPERATION</b>			
1. Suggestion for new machine .....	4-1		
2. Check before starting the engine .....	4-2		
3. Starting and stop the engine .....	4-3		
4. Warming-up operation .....	4-6		
5. Operation of the working device .....	4-7		
6. Traveling of the machine .....	4-8		
7. Efficient working method .....	4-13		
8. Adjustment of the work equipment .....	4-20		
9. Operation in the special work sites .....	4-22		
10. Storage .....	4-24		