

# CONTENTS

EC declaration of conformity .....	0-1	9. Operation in the special work sites .....	4-23
Foreword .....	0-2	10. Storage .....	4-25
Before servicing this machine .....	0-3		
Table to enter S/No and distribution .....	0-4		
EC regulation approved .....	0-5		
Safety labels .....	0-6		
Machine data plate .....	0-14		
Guide (direction, S/No, symbol) .....	0-15		
		<b>5. TRANSPORTATION</b>	
<b>1. SAFETY HINTS</b>		1. Road traveling .....	5-1
1. Before operating the machine .....	1-1	2. Preparation for transportation .....	5-2
2. During operating the machine .....	1-5	3. Loading the machine .....	5-3
3. During maintenance .....	1-14	4. Fixing the machine .....	5-4
4. Parking .....	1-18	5. Loading and unloading by crane .....	5-6
		6. Towing the machine .....	5-7
<b>2. SPECIFICATIONS</b>			
1. Major components .....	2-1	<b>6. MAINTENANCE</b>	
2. Specifications .....	2-2	1. Instructions .....	6-1
3. Weight .....	2-3	2. Tightening torque .....	6-5
4. Specification for major components .....	2-4	3. Spec of fuel, coolant and lubricants .....	6-8
		4. Maintenance check list .....	6-10
<b>3. CONTROL DEVICES</b>		5. Maintenance chart .....	6-13
1. Cab devices .....	3-1	6. Service instruction .....	6-15
2. Cluster .....	3-2	7. Electrical system .....	6-41
3. Monitors .....	3-11	8. Air conditioner and heater .....	6-44
4. Switches .....	3-25		
5. Control device .....	3-32	<b>7. TROUBLESHOOTING GUIDE</b>	
6. Air conditioner and heater .....	3-35	1. Engine .....	7-1
7. Others .....	3-39	2. Electrical system .....	7-2
		3. Power train system .....	7-3
<b>4. OPERATION</b>		4. Hydraulic system .....	7-4
1. Suggestion for new machine .....	4-1		
2. Check before starting the engine .....	4-2	<b>8. INDEX</b> .....	8-1
3. Starting and stop the engine .....	4-3		
4. Warming-up operation .....	4-8		
5. Operation of the working device .....	4-9		
6. Traveling of the machine .....	4-10		
7. Efficient working method .....	4-15		
8. Adjustment of the work equipment .....	4-22		