

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	11. Regeneration system	4-27
Table to enter S/No and distribution	0-4		
EC regulation approved	0-5	5. TRANSPORTATION	
Safety labels	0-6	1. Road traveling	5-1
Machine data plate	0-15	2. Preparation for transportation	5-2
Guide (direction, S/No, symbol)	0-16	3. Loading the machine	5-3
		4. Fixing the machine	5-4
1. SAFETY HINTS		5. Loading and unloading by crane	5-6
1. Before operating the machine	1-1	6. Towing the machine	5-7
2. During operating the machine	1-15		
3. During maintenance	1-24	6. MAINTENANCE	
4. Parking	1-28	1. Instructions	6-1
		2. Tightening torque	6-5
2. SPECIFICATIONS		3. Spec of fuel, coolant and lubricants	6-8
1. Major components	2-1	4. Maintenance check list	6-10
2. Specifications	2-2	5. Maintenance chart	6-13
3. Weight	2-6	6. Service instruction	6-15
4. Specification for major components	2-7	7. Electrical system	6-46
		8. Air conditioner and heater	6-49
3. CONTROL DEVICES			
1. Cab devices	3-1	7. TROUBLESHOOTING GUIDE	
2. Cluster	3-2	1. Engine	7-1
3. Monitors	3-13	2. Electrical system	7-2
4. Switches	3-34	3. Power train system	7-3
5. Control device	3-42	4. Hydraulic system	7-4
6. Air conditioner and heater	3-46		
7. Others	3-50	8. OTHERS	
4. OPERATION		1. Central grease lubrication system	8-1
1. Suggestion for new machine	4-1	2. Quick coupler	8-6
2. Check before starting the engine	4-2		
3. Starting and stop the engine	4-3	INDEX	9-1
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		