

CONTENTS

EC declaration of conformity	0-1	7. Efficient working method	4-15
Foreword	0-2	8. Adjustment of the work equipment	4-22
Emission-related components warranty (USA and CANADA only)	0-2-1	9. Operation in the special work sites	4-23
Before servicing this machine	0-3	10. Storage	4-25
Table to enter S/No and distribution	0-4	11. SCR system cleaning	4-27
EC regulation approved	0-5	12. Open the engine hood	4-28
Safety labels	0-6	13. Attachment manually lowering	4-30
Machine data plate	0-16		
Guide (direction, S/No, symbol)	0-17		
1. SAFETY RULES			
1. California proposition 65	1-1	1. Road traveling	5-1
2. Safety rules	1-2	2. Preparation for transportation	5-2
2. SPECIFICATIONS			
1. Major components	2-1	3. Loading the machine	5-3
2. Specifications	2-2	4. Fixing the machine	5-4
3. Weight	2-6	5. Loading and unloading by crane	5-6
4. Specification for major components	2-7	6. Towing the machine	5-7
3. CONTROL DEVICES			
1. Cab devices	3-1		
2. Cluster	3-2		
3. Monitors	3-13		
4. Switches	3-44		
5. Control device	3-49		
6. Air conditioner and heater	3-53		
7. Others	3-56		
4. OPERATION			
1. Suggestion for new machine	4-1	1. Engine	7-1
2. Check before starting the engine	4-2	2. Electrical system	7-2
3. Starting and stop the engine	4-3	3. Power train system	7-3
4. Warming-up operation	4-8	4. Hydraulic system	7-4
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		
9. Operation in the special work sites	4-23		
10. Storage	4-25		
11. SCR system cleaning	4-27		
12. Open the engine hood	4-28		
13. Attachment manually lowering	4-30		
5. TRANSPORTATION			
1. Road traveling	5-1		
2. Preparation for transportation	5-2		
3. Loading the machine	5-3		
4. Fixing the machine	5-4		
5. Loading and unloading by crane	5-6		
6. Towing the machine	5-7		
6. MAINTENANCE			
1. Instructions	6-1		
2. Tightening torque	6-5		
3. Spec of fuel, coolant and lubricants	6-8		
4. Maintenance check list	6-10		
5. Maintenance chart	6-13		
6. Service instruction	6-15		
7. Electrical system	6-46		
8. Air conditioner and heater	6-49		
7. TROUBLESHOOTING GUIDE			
1. Engine	7-1		
2. Electrical system	7-2		
3. Power train system	7-3		
4. Hydraulic system	7-4		
8. OTHERS			
1. Central grease lubrication system	8-1		
2. Quick coupler	8-9		
INDEX	9-1		