

CONTENTS

Foreword	0-1	9. Operation in the special work sites	4-23
Before servicing this machine	0-2	10. Storage	4-25
Table to enter S/No and distribution	0-3		
EC regulation approved	0-4		
Safety labels	0-5		
Machine data plate	0-13		
Guide (direction, S/No, symbol)	0-14		
1. SAFETY HINTS			
1. Before operating the machine	1-1	1. Road traveling	5-1
2. During operating the machine	1-15	2. Preparation for transportation	5-2
3. During maintenance	1-24	3. Loading the machine	5-3
4. Parking	1-28	4. Fixing the machine	5-4
5. Loading and unloading by crane	5-6	5. Towing the machine	5-7
2. SPECIFICATIONS			
1. Major components	2-1	6. MAINTENANCE	
2. Specifications	2-2	1. Instructions	6-1
3. Weight	2-6	2. Tightening torque	6-5
4. Specification for major components	2-7	3. Spec of fuel, coolant and lubricants	6-8
3. CONTROL DEVICES			
1. Cab devices	3-1	4. Maintenance check list	6-10
2. Cluster	3-2	5. Maintenance chart	6-13
3. Monitors	3-11	6. Service instruction	6-15
4. Switches	3-24	7. Electrical system	6-41
5. Control device	3-30	8. Air conditioner and heater	6-44
6. Air conditioner and heater	3-33		
7. Others	3-37		
4. OPERATION			
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	4-8		
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		
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	6-41		
8. Air conditioner and heater	6-44		
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	8-6		
INDEX 9-1			