

CONTENTS

EC declaration of conformity	0-1
Foreword	0-2
Emission-related components warranty (USA and CANADA only)	0-2-1
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	0-17
Guide (direction, S/No, symbol)	0-18

1. SAFETY HINTS

1. Before operating the machine	1-1
2. During operating the machine	1-15
3. During maintenance	1-24
4. Parking	1-28

2. SPECIFICATIONS

1. Major components	2-1
2. Specifications	2-2
3. Weight	2-6
4. Specification for major components	2-7

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
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
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	4-31

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
-------------	-----