

CONTENTS

Foreword	0-1	6. Traveling of the machine	4-12
Before servicing this machine	0-2	7. Efficient working method	4-15
EC regulation approved	0-3	8. Operation in the special work sites	4-19
Table to enter S/No and distribution	0-4	9. Normal operation of excavator	4-21
Safety labels	0-5	10. Attachment lowering	4-22
Machine data plate	0-17	11. Storage	4-23
Guide (direction, S/No, symbol)	0-18	12. RCV lever operating pattern	4-25
		13. Switching hydraulic attachment circuit	4-27

SAFETY HINTS

1. Before operating the machine	1-1
2. During operating the machine	1-16
3. During maintenance	1-23
4. Parking	1-26

SPECIFICATIONS

1. Major components	2-1
2. Specifications	2-2
3. Working range	2-5
4. Weight	2-7
5. Lifting capacities	2-9
6. Bucket selection guide	2-18
7. Undercarriage	2-20
8. Specification for major components	2-22
9. Recommended oils	2-25

CONTROL DEVICES

1. Cab devices	3-1
2. Cluster	3-2
3. Switches	3-23
4. Levers and pedals	3-27
5. Air conditioner and heater	3-29
6. Others	3-36

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. Mode selection system	4-6
5. Operation of the working device	4-11

TRANSPORTATION

1. Preparation for transportation	5-1
2. Dimension and weight	5-2
3. Loading the machine	5-5
4. Fixing the machine	5-7
5. Loading and unloading by crane	5-8

MAINTENANCE

1. Instruction	6-1
2. Tightening torque	6-6
3. Fuel, coolant and lubricants	6-9
4. Maintenance check list	6-11
5. Maintenance chart	6-16
6. Service instruction	6-18
7. Electrical system	6-40
8. Air conditioner and heater	6-43

TROUBLESHOOTING GUIDE

1. Engine	7-1
2. Electrical system	7-2
3. Others	7-3

HYDRAULIC BREAKER AND QUICK CLAMP

1. Selecting hydraulic breaker	8-1
2. Circuit configuration	8-2
3. Maintenance	8-3
4. Precaution while operating the breaker	8-4
5. Quick clamp	8-6

INDEX	9-1
-------------	-----