CONTENTS

| Foreword | 0 - 1 | 6. Traveling of the machine | 4-14 |
|---------------------------------------|---------------|---|---------------|
| Before servicing this machine | 0-2 | 7. Efficient working method | 4-1 7 |
| EC regulation approved | 0-3 | 8. Operation in the special work sites | 4-21 |
| Table to enter S/No and distribution | 0-4 | 9. Normal operation of excavator | 4 -2 3 |
| Safety labels | 0-5 | 10. Attachment lowering | 4-24 |
| Guide(Direction, S/No, Symbol) | 0-14 | 11. Storage | 4-25 |
| | | 12. RCV lever operating pattern | 4 - 27 |
| SAFETY HINTS | | 13. Switching hydraulic attachment circuit | 4-28 |
| 1. Before operating the machine | 1 - 1 | | |
| 2. During operating the machine | 1 - 6 | TRANSPOTATION | |
| 3. During maintenance | 1 - 13 | 1. Preparation for transportation | 5-1 |
| 4. Parking | 1 - 16 | 2. Dimension and weight | 5-2 |
| | | 3. Loading the machine | 5-4 |
| SPECIFICATIONS | | 4. Fixing the machine | 5 - 6 |
| 1. Major components | 2-1 | 5. Loading and unloading by crane | 5 - 7 |
| 2. Specifications | 2 - 2 | | |
| 3. Working range | 2-3 | MAINTENANCE | |
| 4. Weight | 2 - 4 | 1. Instruction | 6 - 1 |
| 5. Lifting capacities | 2 - 5 | 2. Tightening torque | 6-6 |
| 6. Bucket selection guide | 2-8 | 3. Fuel, coolant and lubricants | 6 - 9 |
| 7. Undercarriage | 2-10 | 4. Maintenance check list | 6-11 |
| 8. Specification for major components | 2-12 | 5. Maintenance chart | 6-16 |
| 9. Recommended oils | 2-16 | 6. Service instruction | 6-18 |
| | | 7. Electrical system | 6 - 39 |
| CONTROL DEVICES | | 8. Air conditioner and heater | 6 - 43 |
| 1. Cab devices | 3 - 1 | | |
| 2. Cluster | 3 - 2 | TROUBLESHOOTING GUIDE | |
| 3. Switches | 3 - 9 | 1. Engine | 7-1 |
| 4. Levers and pedals | 3-14 | 2. Electrical system | 7 - 2 |
| 5. Air conditioner and heater | 3 - 16 | 3. Others | 7 - 3 |
| 6. Others | 3 - 19 | | |
| | | HYDRAULIC BREAKER | |
| OPERATION | | 1. Selecting hydraulic breaker | 8-1 |
| 1. Suggestion for new machine | 4-1 | 2. Circuit configuration | 8-2 |
| 2. Check before starting the engine | 4 - 2 | 3. Maintenance | 8-3 |
| 3. Starting and stop the engine | 4-3 | 4. Precautions while operating the breaker- | 8-4 |
| 4. Mode selection system | 4-6 | | |
| 5. Operation of the working device | 4 - 13 | INDEX | 9 - 1 |