

CONTENTS

Foreword	0-1	5. Maintenance chart	4-16		
Before servicing this machine	0-2	6. Service instruction	4-19		
Table to enter S/No and distribution	0-3	7. Electrical system	4-52		
Machine data plate	0-4	8. Air conditioner and heater	4-55		
Guide (direction, S/No, symbol)	0-5				
SAFETY HINTS					
1. Safety rules	1-2	1. Preparation for transportation	5-1		
2. Safety decals	1-31	2. Dimension and weight	5-2		
OPERATION					
1. Suggestion for new machine	2-1	3. Loading the machine	5-5		
2. Check before starting the engine	2-2	4. Fixing the machine	5-7		
3. Starting and stop the engine	2-3	5. Loading and unloading by crane	5-8		
4. Mode selection system	2-7				
5. Operation of the working device	2-12	TROUBLESHOOTING GUIDE			
6. Traveling of the machine	2-13	1. Engine	6-1		
7. Efficient working method	2-16	2. Electrical system	6-2		
8. Operation in the special work sites	2-20	3. Others	6-3		
9. Normal operation of excavator	2-22				
10. Attachment lowering	2-23	SPECIFICATIONS			
11. Storage	2-24	1. Major components	7-1		
12. RCV lever operating pattern	2-26	2. Specifications	7-2		
CONTROL DEVICES					
1. Cab devices	3-1	3. Working range and digging force	7-6		
2. Cluster	3-2	4. Weight	7-10		
3. Switches	3-33	5. Lifting capacities	7-11		
4. Levers and pedals	3-37	6. Bucket selection guide	7-23		
5. Air conditioner and heater	3-39	7. Undercarriage	7-27		
6. Others	3-43	8. Specification for major components	7-29		
MAINTENANCE					
1. Instruction	4-1	9. Recommended oils	7-32		
2. Tightening torque	4-6				
3. Fuel, coolant and lubricants	4-9	HYDRAULIC BREAKER AND QUICK CLAMP			
4. Maintenance check list	4-10	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		