

SECTION 1 GENERAL

Group 1 Safety Hints	1-1
Group 2 Specifications	1-9

SECTION 2 STRUCTURE AND FUNCTION

Group 1 Pump Device	2-1
Group 2 Main Control Valve	2-21
Group 3 Swing Device	2-46
Group 4 Travel Device	2-58
Group 5 RCV Lever	2-69
Group 6 RCV Pedal	2-76

SECTION 3 HYDRAULIC SYSTEM

Group 1 Hydraulic Circuit	3-1
Group 2 Main Circuit	3-2
Group 3 Pilot Circuit	3-5
Group 4 Single Operation	3-13
Group 5 Combined Operation	3-23

SECTION 4 ELECTRICAL SYSTEM

Group 1 Component Location	4-1
Group 2 Electrical Circuit	4-3
Group 3 Electrical Component Specification	4-23
Group 4 Connectors	4-33

SECTION 5 MECHATRONICS SYSTEM

Group 1 Outline	5-1
Group 2 Mode selection System	5-3
Group 3 Automatic Deceleration System	5-6
Group 4 Power Boost System	5-7
Group 5 Travel Speed Control System	5-8
Group 6 Automatic Warming Up Function	5-9
Group 7 Engine Overheat Prevention Function	5-10
Group 8 Anti-Restart system	5-11
Group 9 Self-Diagnostic System	5-12

Group 10 Engine Control System	5-15
Group 11 EPPR(Electro Proportional Pressure Reducing) Valve	5-22
Group 12 Monitoring System	5-25

SECTION 6 TROUBLESHOOTING

Group 1 Before troubleshooting	6-1
Group 2 Hydraulic and Mechanical System	6-4
Group 3 Electrical System	6-24
Group 4 Mechatronics System	6-41

SECTION 7 MAINTENANCE STANDARD

Group 1 Operational Performance Test	7-1
Group 2 Major Components	7-21
Group 3 Track and Work Equipment	7-31

SECTION 8 DISASSEMBLY AND ASSEMBLY

Group 1 Precaution	8-1
Group 2 Tightening Torque	8-4
Group 3 Pump Device	8-7
Group 4 Main Control Valve	8-36
Group 5 Swing Device	8-49
Group 6 Travel Device	8-74
Group 7 RCV Lever	8-114
Group 8 Turning Joint	8-129
Group 9 Boom, Arm and Bucket Cylinder	8-134
Group 10 Undercarriage	8-151
Group 11 Work Equipment	8-163

SECTION 9 COMPONENT MOUNTING TORQUE

Group 1 Introduction guide	9-1
Group 2 Engine system	9-2
Group 3 Electric system	9-4
Group 4 Hydraulic system	9-6
Group 5 Undercarriage	9-10
Group 6 Structure	9-11
Group 7 Work equipment	9-14