

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	2-20
Group 3 Swing Device	2-47
Group 4 Travel Motor	2-59
Group 5 RCV Lever	2-66
Group 6 Accelerator Pedal	2-73
Group 7 Brake Pedal	2-74
Group 8 Transmission	2-76
Group 9 Travel Control Valve	2-83
Group 10 Steering Valve	2-85

SECTION 3 HYDRAULIC SYSTEM

Group 1 Hydraulic Circuit	3-1
---------------------------------	-----

SECTION 4 ELECTRICAL SYSTEM

Group 1 Component Location	4-1
Group 2 Electrical Circuit	4-3
Group 3 Electrical Component Specification	4-24
Group 4 Connectors	4-32

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	Variable Power Control System	5-11
Group 9	Attachment Flow Control System	5-12
Group 10	Anti-Restart System	5-13
Group 11	Self-Diagnostic System	5-14
Group 12	Engine Control System	5-27
Group 13	EPPR Valve	5-28
Group 14	Monitoring System	5-33
Group 15	Fuel Warmer System	5-56

SECTION 6 TROUBLESHOOTING

Group 1	Before Troubleshooting	6-1
Group 2	Hydraulic and Mechanical System	6-4
Group 3	Electrical System	6-25
Group 4	Mechatronics System	6-41

SECTION 7 MAINTENANCE STANDARD

Group 1	Operational Performance Test	7-1
Group 2	Major Components	7-19
Group 3	Track and Work Equipment	7-28

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	8-30
Group 5	Swing Device	8-44
Group 6	Travel Motor	8-65
Group 7	Transmission	8-89
Group 8	Steering Valve	8-143
Group 9	Front Axle and Rear Axle	8-168
Group 10	RCV Lever	8-240

Group 11	Turning Joint	8-254
Group 12	Boom, Arm, Bucket, Dozer and Outrigger Cylinders	8-260
Group 13	Work Equipment	8-282