

Shop Manual

WA470-7

WHEEL LOADER

SERIAL NUMBERS WA470-7 A47001 and up

ENGINE 6D125E-6

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00 Index and foreword

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Index

Index (ALL-0310-001-A-00-A)

00 Index and foreword	00-1
Index	00-2
Foreword, safety and general information	00-18
Important safety notice	00-18
How to read the shop manual	00-25
Explanation of terms for maintenance standard	00-27
Handling equipment of fuel system devices	00-29
Handling of intake system parts	00-30
Handling of hydraulic equipment	00-31
Method of disconnecting and connecting of push-pull type coupler	00-33
Handling of electrical equipment	00-36
How to read electric wire code	00-44
Precautions when performing operation	00-47
Practical use of KOMTRAX	00-51
Standard tightening torque table	00-52
List of abbreviation	00-56
Conversion table	00-61
01 Specification	01-1
Table of contents	01-2
Specifications	01-3
Specification drawing	01-3
Specifications	01-5
Weight table	01-11
Table of fuel, coolant, and lubricants	01-13
10 Structure and function	10-1
Table of contents	10-2
Engine and cooling system	10-4
Engine related parts	10-4
KVTG	10-6
EGR system piping drawing	10-12
EGR system circuit diagram	10-14
EGR valve	10-15
EGR cooler	10-17
KCCV layout drawing	10-19
KCCV ventilator	10-21
KDPF	10-23
Cooling system	10-27
Cooling fan pump	10-30
Cooling fan motor	10-39
Power train	10-46
Power train system	10-46
Drive shaft	10-49
Power train piping drawing	10-50
Transmission control	10-51
Torque converter	10-54
Transmission	10-59
Transmission control valve	10-78
Forward and reverse clutch ECMV and 1st and 2nd clutch ECMV	10-81
3rd, 4th clutch ECMV	10-88
Lockup clutch ECMV	10-95
Main relief and torque converter relief valve	10-99
Axle	10-101
Differential	10-103
Final drive	10-113
Steering system	10-115
Layout of steering parts	10-115
Steering column	10-116

Steering pump	10-117
Steering valve	10-129
Orbit-roll valve	10-143
Stop valve	10-149
Emergency steering motor	10-150
Emergency steering pump	10-151
Brake system	10-152
Layout of brake parts	10-152
Charge valve	10-154
Brake valve	10-160
Slack adjuster	10-164
Accumulator (for brake)	10-167
Brake	10-168
Parking brake control	10-171
Parking brake	10-172
Parking brake solenoid valve	10-173
Parking brake emergency release valve	10-176
Undercarriage and frame	10-177
Axle mount and center hinge pin	10-177
Tire	10-178
Hydraulic system	10-180
Hydraulic component layout	10-180
Work equipment control	10-182
Hydraulic tank	10-183
Double type gear pump	10-186
Work equipment pump	10-187
Control valve	10-208
CLSS	10-217
Hydraulic circuit diagram and names of valves	10-221
Accumulator charge valve	10-232
Work equipment lock solenoid valve	10-236
Accumulator (for PPC circuit)	10-237
Accumulator (for ECSS)	10-238
Work equipment	10-239
Work equipment linkage	10-239
Bucket	10-240
Bucket positioner and boom positioner	10-241
Cab and its attachments	10-242
ROPS cab	10-242
Electrical system	10-243
Engine control system	10-243
Preheating system	10-245
Engine power mode selector circuit	10-247
Engine output limit function	10-248
Automatic warm-up function	10-249
Parking brake control system	10-250
System operating lamp function	10-252
Battery disconnect switch function	10-254
Transmission controller system	10-256
Work equipment control system	10-277
Machine monitor system	10-293
Rear view monitor system	10-317
KOMTRAX system	10-320
System component parts	10-323
Sensor	10-350
20 Standard value tables	20-1
Table of contents	20-2
Standard service value table	20-3
Standard value table for engine	20-3

00 Index and foreword

Index

Standard value table for machine	20-5
Standard value table for electrical system.....	20-18
30 Testing and adjusting	30-1
Table of contents	30-2
General information on testing and adjusting	30-4
Tools for testing and adjusting	30-4
Sketch of tools for testing and adjusting	30-8
Engine and cooling system	30-10
Testing engine speed	30-10
Testing boost pressure	30-12
Testing exhaust gas color	30-14
Testing and adjusting valve clearance.....	30-16
Testing compression pressure.....	30-18
Testing blowby pressure	30-22
Testing engine oil pressure	30-24
Testing EGR valve and KVGT oil pressures	30-25
Testing fuel pressure	30-26
Testing fuel return rate and leakage	30-27
Bleeding air from fuel system	30-31
Testing fuel circuit for leakage	30-33
Handling cylinder cutout mode operation.....	30-34
Handling no injection cranking operation	30-35
Testing of KDPF and muffler stack for looseness and damage	30-36
Testing of installed condition of cylinder head and manifolds	30-37
Testing engine piping for damage and looseness	30-38
Testing and adjusting air conditioner compressor belt tension	30-39
Testing and adjusting alternator belt tension	30-41
Procedures for cleaning fuel doser.....	30-43
Writing compensation values at replacement of injector and engine controller	30-46
Power train.....	30-50
Adjusting transmission output speed sensor.....	30-50
Adjusting transmission input speed sensor.....	30-51
Flushing procedure for torque converter and transmission hydraulic circuit.....	30-52
Retrieval of disabled machine due to transmission valve failure.....	30-54
Testing oil leakage from axle final drive	30-56
Testing drive shaft for looseness, backlash, and damage.....	30-57
Testing and adjusting power train oil pressure.....	30-58
Steering system.....	30-73
Testing directional lever	30-73
Testing steering wheel	30-74
Testing work equipment control lever	30-76
Testing and adjusting steering circuit oil pressure.....	30-78
Bleeding air from steering cylinder circuit.....	30-81
Testing and adjusting steering stopper valve.....	30-82
Brake system	30-83
Testing brake pedal	30-83
Testing and adjusting brake pedal linkage	30-84
Testing braking performance	30-85
Testing and adjusting of accumulator charge pressure.....	30-86
Testing of brake accumulator nitrogen gas pressure and procedure for charging brake accumulator with nitrogen gas.....	30-88
Testing wheel brake oil pressure.....	30-92
Testing lowering of wheel brake pressure	30-94
Testing wear of wheel brake disc	30-96
Bleeding air from wheel brake circuit.....	30-97
Releasing remaining pressure in brake accumulator circuit.....	30-99
Testing parking brake performance	30-100
Testing parking brake oil pressure	30-101
Testing wear of parking brake disc	30-102

Method of releasing parking brake manually	30-103
Hydraulic system	30-105
Testing fan speed	30-105
Testing fan pump circuit oil pressure	30-106
Bleeding air from hydraulic fan circuit	30-108
Testing and adjusting work equipment EPC oil pressure	30-110
Testing and adjusting work equipment oil pressure	30-113
Bleeding air from work equipment circuit	30-117
Releasing remaining pressure from work equipment circuit	30-118
Testing of ECSS accumulator nitrogen gas pressure and procedure for charging accumulator with nitrogen gas	30-119
Work equipment	30-123
Testing and adjusting bucket position detection lever	30-123
Testing and adjusting boom position detection lever	30-124
Electrical system	30-125
Adjusting replaced, reassembled or added sensor, controller, etc. with machine monitor	30-125
Special functions of machine monitor	30-127
Adjusting rearview camera angle	30-216
Handling voltage circuit of engine controller	30-217
Handling battery disconnect switch	30-218
Testing diodes	30-219
Pm clinic	30-220
Pm Clinic service	30-220
Check sheet	30-221
40 Troubleshooting	40-1
Table of contents	40-2
General information on troubleshooting	40-11
Troubleshooting points	40-11
Sequence of events in troubleshooting	40-13
Check before troubleshooting	40-15
Inspection procedure before troubleshooting	40-17
Preparation work for troubleshooting of electrical system	40-34
Classification and procedures for troubleshooting	40-40
Symptom and troubleshooting numbers	40-43
Information in troubleshooting table	40-46
Connector list and layout	40-48
Connector contact identification	40-62
T-branch box and T-branch adapter table	40-98
Fuse location table	40-104
Precautions for KDPF (KCSF and KDOC) Cleaning and Replacement	40-107
Precautions on troubleshooting of machine monitor	40-110
Processing procedure of harness checker for troubleshooting of machine monitor LCD unit	40-112
Fabrication of dummy temperature sensor (for KDOC and KDPF temperature sensors)	40-117
Fabrication of short-circuit connector (for CA1883 and CA3135)	40-118
Failure codes table	40-119
Troubleshooting by failure code (Display of code)	40-133
Failure code [1500L0] Double Engagement of T/M Clutches	40-133
Failure code [15SAL1] Release Trouble of ECMV (Forward)	40-134
Failure code [15SALH] Malfunction of ECMV (Forward)	40-136
Failure code [15SBL1] Release Trouble of ECMV (Reverse)	40-138
Failure code [15SBLH] Malfunction of ECMV (Reverse)	40-140
Failure code [15SEL1] Release Trouble of ECMV (1st)	40-142
Failure code [15SELH] Malfunction of ECMV (1st)	40-144
Failure code [15SFL1] Release Trouble of ECMV (2nd)	40-146
Failure code [15SFLH] Malfunction of ECMV (2nd)	40-148
Failure code [15SGL1] Release Trouble of ECMV (3rd)	40-150

00 Index and foreword

Index

Failure code [15SGLH] Malfunction of ECMV (3rd).....	40-152
Failure code [15SHL1] Release Trouble of ECMV (4th)	40-154
Failure code [15SHLH] Malfunction of ECMV (4th).....	40-156
Failure code [2F00MA] Failure of Parking Brake Circuit	40-158
Failure code [2G42ZG] Accumulator Oil Pressure Low (Front)	40-162
Failure code [2G43ZG] Accumulator Oil Pressure Low (Rear).....	40-164
Failure code [879AKA] A/C Inner Sensor Open Circuit	40-166
Failure code [879AKB] A/C Inner Sensor Short Circuit.....	40-167
Failure code [879BKA] A/C Outer Sensor Open Circuit.....	40-168
Failure code [879BKB] A/C Outer Sensor Short Circuit.....	40-169
Failure code [879CKA] Ventilating Sensor Open Circuit.....	40-170
Failure code [879CKB] Ventilating Sensor Short Circuit.....	40-171
Failure code [879DKZ] Sunlight Sensor Open or Short Circuit.....	40-172
Failure code [879EMC] Ventilation Damper Abnormality	40-173
Failure code [879FMC] Air Mix Damper Abnormality	40-174
Failure code [989A00] Engine Overrun Prevention Activated	40-175
Failure code [989L00] Engine Controller Lock Caution 1.....	40-176
Failure code [989M00] Engine Controller Lock Caution 2.....	40-177
Failure code [989N00] Engine Controller Lock Caution 3	40-178
Failure code [A1U0N3] HC Desorb Request 1	40-179
Failure code [A1U0N4] HC Desorb Request 2	40-181
Failure code [AA10NX] Air Cleaner Clogging.....	40-183
Failure code [B@BAZG] Eng Oil Press Low	40-185
Failure code [B@BAZK] Eng Oil Level Low	40-186
Failure code [B@BCNS] Eng Water Overheat	40-188
Failure code [B@BCZK] Eng Water Level Low	40-189
Failure code [B@CENS] T/C Oil Temp. Overheat.....	40-191
Failure code [B@HANS] HYD Oil Temp. Overheat.....	40-192
Failure code [CA115] Eng Ne and Bkup Speed Sens Error	40-193
Failure code [CA122] Chg Air Press Sensor High Error	40-194
Failure code [CA123] Chg Air Press Sensor Low Error	40-196
Failure code [CA131] Throttle Sensor High Error.....	40-198
Failure code [CA132] Throttle Sensor Low Error	40-200
Failure code [CA135] Eng Oil Press Sensor High Error.....	40-202
Failure code [CA141] Eng Oil Press Sensor Low Error	40-204
Failure code [CA144] Coolant Temp Sens High Error	40-206
Failure code [CA145] Coolant Temp Sens Low Error	40-208
Failure code [CA153] Chg Air Temp Sensor High Error.....	40-210
Failure code [CA154] Chg Air Temp Sensor Low Error.....	40-212
Failure code [CA187] Sensor 2 Supply Volt Low Error	40-214
Failure code [CA221] Ambient Press Sensor High Error	40-216
Failure code [CA222] Ambient Press Sensor Low Error	40-218
Failure code [CA227] Sensor 2 Supply Volt High Error.....	40-220
Failure code [CA234] Eng Overspeed	40-221
Failure code [CA238] Ne Speed Sensor Supply Volt Error	40-222
Failure code [CA239] Ne Speed Sens Supply Volt High Error.....	40-223
Failure code [CA271] IMV/PCV1 Short Error	40-224
Failure code [CA272] IMV/PCV1 Open Error	40-225
Failure code [CA273] PCV2 Short Error	40-226
Failure code [CA274] PCV2 Open Error	40-227
Failure code [CA322] Inj #1(L#1) Open/Short Error	40-228
Failure code [CA323] Inj #5(L#5) Open/Short Error	40-230
Failure code [CA324] Inj #3(L#3) Open/Short Error	40-232
Failure code [CA325] Inj #6(L#6) Open/Short Error	40-234
Failure code [CA331] Inj #2(L#2) Open/Short Error	40-236
Failure code [CA332] Inj #4(L#4) Open/Short Error	40-238
Failure code [CA343] ECM Critical Internal Failure.....	40-240
Failure code [CA351] Injectors Drive Circuit Error	40-241
Failure code [CA352] Sensor 1 Supply Volt Low Error	40-242

Failure code [CA356] Mass Air Flow Sensor High Error	40-244
Failure code [CA357] Mass Air Flow Sensor Low Error	40-246
Failure code [CA386] Sensor 1 Supply Volt High Error	40-248
Failure code [CA431] Idle Validation Sw Error	40-249
Failure code [CA432] Idle Validation Process Error	40-252
Failure code [CA441] Battery Voltage Low Error	40-255
Failure code [CA442] Battery Voltage High Error	40-257
Failure code [CA449] Rail Press Very High Error	40-258
Failure code [CA451] Rail Press Sensor High Error	40-259
Failure code [CA452] Rail Press Sensor Low Error	40-261
Failure code [CA515] Rail Press Sens Sup Volt High Error	40-263
Failure code [CA516] Rail Press Sens Sup Volt Low Error	40-265
Failure code [CA553] Rail Press High Error	40-267
Failure code [CA555] Crankcase Press High Error 1	40-268
Failure code [CA556] Crankcase Press High Error 2	40-269
Failure code [CA559] Rail Press Low Error	40-270
Failure code [CA595] Turbo Speed High Error 2	40-274
Failure code [CA687] Turbo Speed Low Error	40-275
Failure code [CA689] Eng Ne Speed Sensor Error	40-277
Failure code [CA691] Intake Air Temp Sens High Error	40-279
Failure code [CA692] Intake Air Temp Sens Low Error	40-281
Failure code [CA697] ECM Internal Temp Sensor High Error	40-283
Failure code [CA698] ECM Int Temp Sensor Low Error	40-284
Failure code [CA731] Eng Bkup Speed Sens Phase Error	40-285
Failure code [CA778] Eng Bkup Speed Sensor Error	40-286
Failure code [CA1117] Persistent Data Lost Error	40-288
Failure code [CA1664] KDOC Malfunction	40-289
Failure code [CA1691] Regeneration Ineffective	40-292
Failure code [CA1695] Sensor 5 Supply Volt High Error	40-295
Failure code [CA1696] Sensor 5 Supply Volt Low Error	40-296
Failure code [CA1843] Crankcase Press Sens High Error	40-298
Failure code [CA1844] Crankcase Press Sens Low Error	40-300
Failure code [CA1879] KDPF Delta P Sensor High Error	40-302
Failure code [CA1881] KDPF Delta P Sensor Low Error	40-304
Failure code [CA1883] KDPF Delta P Sens In Range Error	40-306
Failure code [CA1921] KDPF Soot Load High Error 1	40-309
Failure code [CA1922] KDPF Soot Load High Error 2	40-312
Failure code [CA1923] Dosing Fuel Valve 1 High Error	40-317
Failure code [CA1924] Dosing Fuel Valve 1 Low Error	40-319
Failure code [CA1925] Dosing Fuel Valve 1 In Range Error	40-322
Failure code [CA1927] Dosing Fuel Press Sens High Error	40-324
Failure code [CA1928] Dosing Fuel Press Sens Low Error	40-326
Failure code [CA1942] Crankcase Press Sens In Range Error	40-328
Failure code [CA1963] Dosing Fuel Valve 1 Servo Error	40-329
Failure code [CA1977] Fuel Doser Open/Short Error	40-331
Failure code [CA1993] KDPF Delta Pressure Low Error	40-333
Failure code [CA2185] Throt Sensor Sup Volt High Error	40-335
Failure code [CA2186] Throt Sensor Sup Volt Low Error	40-337
Failure code [CA2249] Rail Press Very Low Error	40-339
Failure code [CA2265] Fuel Feed Pump Open Error	40-340
Failure code [CA2266] Fuel Feed Pump Short Error	40-342
Failure code [CA2271] EGR Valve Pos Sens High Error	40-344
Failure code [CA2272] EGR Valve Pos Sens Low Error	40-346
Failure code [CA2349] EGR Valve Solenoid Open Error	40-348
Failure code [CA2353] EGR Valve Solenoid Short Error	40-350
Failure code [CA2357] EGR Valve Servo Error	40-352
Failure code [CA2381] KVGt Pos Sens High Error	40-353
Failure code [CA2382] KVGt Pos Sens Low Error	40-355
Failure code [CA2383] KVGt Solenoid Open Error	40-357

00 Index and foreword

Index

Failure code [CA2386] KVGT Solenoid Short Error	40-359
Failure code [CA2387] KVGT Servo Error	40-361
Failure code [CA2555] Grid Htr Relay Volt Low Error	40-362
Failure code [CA2556] Grid Htr Relay Volt High Error	40-364
Failure code [CA2637] KDOC Face Plugging	40-366
Failure code [CA2639] Manual Stationary Regeneration Request	40-368
Failure code [CA2732] Dosing Fuel Valve 2 High Error	40-371
Failure code [CA2733] Dosing Fuel Valve 2 Low Error	40-373
Failure code [CA2741] Dosing Fuel Valve Swap Error	40-375
Failure code [CA2765] Inj Trim Data Error	40-377
Failure code [CA2878] Dosing Fuel Valve 2 Servo Error	40-378
Failure code [CA2881] Dosing Fuel Pressure Low Error 1	40-381
Failure code [CA3133] KDPF Outlet Press Sens High Error	40-386
Failure code [CA3134] KDPF Outlet Press Sens Low Error	40-388
Failure code [CA3135] KDPF Outlet Press Sens In Range Error	40-390
Failure code [CA3167] Fuel Doser Degradation	40-393
Failure code [CA3251] KDOC Inlet Temp High Error	40-396
Failure code [CA3253] KDOC Temp Error - Non Regeneration	40-399
Failure code [CA3254] KDOC Outlet Temp High Error 1	40-402
Failure code [CA3255] KDPF Temp Error - Non Regeneration	40-405
Failure code [CA3256] KDPF Outlet Temp High Error 1	40-409
Failure code [CA3311] KDOC Outlet Temp High Error 2	40-412
Failure code [CA3312] KDPF Outlet Temp High Error 2	40-415
Failure code [CA3313] KDOC Inlet Temp Sensor Low Error	40-418
Failure code [CA3314] KDOC Inlet Temp Sens High Error	40-421
Failure code [CA3315] KDOC Inlet Temp Sens In Range Error	40-425
Failure code [CA3316] KDOC Outlet Temp Sens Low Error	40-430
Failure code [CA3317] KDOC Outlet Temp Sens High Error	40-433
Failure code [CA3318] KDOC Outlet Temp Sens In Range Error	40-437
Failure code [CA3319] KDPF Outlet Temp Sens High Error	40-442
Failure code [CA3321] KDPF Outlet Temp Sens Low Error	40-446
Failure code [CA3322] KDPF Outlet Temp Sens In Range Error	40-449
Failure code [CA3419] Mass Air Flow Sensor Sup Volt High Error	40-454
Failure code [CA3421] Mass Air Flow Sensor Sup Volt Low Error	40-456
Failure code [D150KA] Disconnection of Emerg. Steering Relay	40-458
Failure code [D150KB] Ground Fault of Emerg. Steering Relay	40-460
Failure code [D150KY] Hot Short of Emergency Steering Relay	40-462
Failure code [D160KA] Disconnection of Backup Lamp Relay Output	40-464
Failure code [D160KB] Ground Fault of Backup Lamp Relay Output	40-466
Failure code [D160KY] Hot Short of Backup Lamp Relay Output	40-468
Failure code [D191KA] Disconnection of Neutral Output Relay	40-470
Failure code [D191KB] Ground Fault of Neutral Output Relay	40-472
Failure code [D191KY] Hot Short of Neutral Output Relay	40-474
Failure code [D192KA] Disconnection of ECSS Solenoid	40-476
Failure code [D192KB] Ground Fault of ECSS Solenoid	40-478
Failure code [D192KY] Hot Short of ECSS Solenoid	40-479
Failure code [D19JKZ] Personal Code Relay Abnormality	40-480
Failure code [D1E6KA] Disconnection of Parking Brake Relay	40-482
Failure code [D1E6KB] Ground Fault of Parking Brake Relay	40-484
Failure code [D1E6KY] Hot Short of Parking Brake Relay	40-486
Failure code [D5ZHKA] Failure of Key SW C Signal	40-488
Failure code [D5ZHKB] Key SW C Signal Short Circuit	40-490
Failure code [D5ZHKZ] Failure of Key SW C Signal	40-492
Failure code [D5ZHL6] Disconnection of Key SW C	40-494
Failure code [D811MC] KOMTRAX Error	40-496
Failure code [D862KA] GPS Antenna Open Circuit	40-497
Failure code [D8ALKA] Operating Lamp Open Circuit (KOMTRAX)	40-498
Failure code [D8ALKB] Operating Lamp Short Circuit (KOMTRAX)	40-500
Failure code [D8AQK4] CAN2 Discon (KOMTRAX) 2	40-502

Failure code [D8AQKR] CAN2 Discon (KOMTRAX)	40-503
Failure code [DAF0KT] Abnormality of Non-volatile Memory (MON)	40-505
Failure code [DAF0MB] Monitor ROM Abnormality	40-506
Failure code [DAF0MC] Monitor Error	40-507
Failure code [DAF3KK] Controller Power Source Low (MON)	40-508
Failure code [DAF8KB] Camera Power Supply Short Circuit	40-510
Failure code [DAFDKB] Monitor 12V Power Output Short Circuit	40-511
Failure code [DAFGMC] GPS Module Error	40-513
Failure code [DAFLKA] Operating Lamp Open Circuit (MON)	40-514
Failure code [DAFLKB] Operating Lamp Short Circuit (MON)	40-516
Failure code [DAFQKR] CAN2 Discon (Monitor)	40-518
Failure code [DAQ0KK] Controller Power Source Low (T/M)	40-519
Failure code [DAQ0KT] Abnormality of Non-volatile Memory (T/M)	40-522
Failure code [DAQ0MC] T/M Con Error	40-523
Failure code [DAQ1KA] Disconnection of Key SW ACC (T/M)	40-524
Failure code [DAQ2KK] Solenoid Power Source Low (T/M)	40-526
Failure code [DAQ4KB] Ground Fault of Sol. Self-Holding Relay	40-529
Failure code [DAQ9KQ] Inconsistency of Model Selection (T/M)	40-531
Failure code [DAQLKA] Operating Lamp Open Circuit (T/M)	40-532
Failure code [DAQLKB] Operating Lamp Short Circuit (T/M)	40-534
Failure code [DAQQKR] CAN2 Discon (Transmission Con)	40-536
Failure code [DAQRKR] CAN1 Discon (Transmission Con)	40-537
Failure code [DAQRMA] Inconsistency of Option Selection (T/M)	40-538
Failure code [DAZ9KQ] A/C Model Selection Abnormality	40-539
Failure code [DAZQKR] CAN2 Discon (Aircon ECU)	40-540
Failure code [DB2QKR] CAN2 Discon (Engine Con)	40-541
Failure code [DB2RKR] CAN1 Discon (Engine Con)	40-546
Failure code [DB90KK] Drop in BBC Controller Main Power Source	40-551
Failure code [DB90KT] Abnormality of Non-volatile Memory (BBC)	40-553
Failure code [DB90MC] BBC Error	40-554
Failure code [DB91KA] Disconnection of Key SW ACC (BBC)	40-555
Failure code [DB92KK] Solenoid Power Source Low (BBC)	40-557
Failure code [DB95KX] Failure of 5 V Power Source 1	40-559
Failure code [DB96KX] Failure of 5 V Power Source 2	40-561
Failure code [DB99KQ] Inconsistency of Model Selection (BBC)	40-563
Failure code [DB9LKA] Operating Lamp Open Circuit (BBC)	40-564
Failure code [DB9LKB] Operating Lamp Short Circuit (BBC)	40-566
Failure code [DB9QKR] CAN2 Discon (Bucket Boom Con)	40-568
Failure code [DB9RKR] CAN1 Discon (Bucket Boom Con)	40-569
Failure code [DB9RMA] Inconsistency of Option Selection (BBC)	40-570
Failure code [DBE5KX] Failure of 5V Power Source	40-571
Failure code [DBE6KX] Failure of 24 V Power Source	40-573
Failure code [DD1ALD] Ground Fault of Remote Positioner Set SW	40-575
Failure code [DDAAL6] Discon of Engine Shutdown Secondary Switch	40-577
Failure code [DDB6L4] Neutral Signal Malfunction	40-579
Failure code [DDD1LD] Failure of Bucket Positioner Set Switch	40-582
Failure code [DDK3KA] FNR SW Input Signal Disconnection	40-584
Failure code [DDK3KB] FNR SW Input Signal Short Circuit	40-587
Failure code [DDK6KA] FNR Lever Input Signal Disconnection	40-589
Failure code [DDK6KB] FNR Lever Input Signal Short Circuit	40-592
Failure code [DDNRKY] Hot Short of Work Equipment Lock SW	40-594
Failure code [DDT0L4] Failure of Shift Mode Select SW	40-596
Failure code [DDT4LD] Ground Fault of T/M Cut Off Set SW Signal	40-598
Failure code [DDT9LD] Ground Fault of T/M Cut Off SW Signal	40-600
Failure code [DDW9LD] Ground Fault of Kickdown Switch	40-602
Failure code [DDWLLD] Ground Fault of T/M Shift Hold SW	40-604
Failure code [DF10KA] Disconnection of Shift Lever Input	40-606
Failure code [DF10KB] Ground Fault of Shift Lever Input	40-608
Failure code [DGF1KA] Disconnection of T/M Oil Temp. Sensor	40-611

Failure code [DGF1KB] Ground Fault of T/M Oil Temp. Sensor	40-613
Failure code [DGH2KX] Out of Range of HYD Oil Temp. Sensor	40-615
Failure code [DGR2KB] Ground Fault of Brake Oil Temp. Sensor	40-617
Failure code [DGR2KZ] Failure of Brake Oil Temp. Sensor	40-618
Failure code [DGT1KA] Disconnection of T/C Oil Temp. Sensor	40-620
Failure code [DGT1KB] Ground Fault of T/C Oil Temp. Sensor	40-623
Failure code [DH21KA] Failure of Loader Pump Press. Sensor	40-625
Failure code [DH21KB] Loader Pump Press. Sensor Short Circuit.....	40-627
Failure code [DHA4KA] Failure of Air Cleaner Sensor Circuit	40-629
Failure code [DHPCKX] Out of Range of Boom Bottom Press. Sensor.....	40-631
Failure code [DHPDKX] Out of Range of Boom Head Press. Sensor	40-633
Failure code [DHT1KX] Out of Range of T/M Cut Off Press. Sensor.....	40-635
Failure code [DHT5KX] Out of Range of T/C Input Pressure Sensor	40-637
Failure code [DHT7KX] Out of Range of T/C Output Pressure Sensor	40-639
Failure code [DHT8KA] Failure of Steering Pump Press. Sensor	40-641
Failure code [DHT8KB] Steering Pump Press. Sensor Short Circuit.....	40-643
Failure code [DHT8ZG] Steering Oil Pressure Low.....	40-645
Failure code [DHUDDKA] Failure of Emrg. Steering Press. Sensor.....	40-646
Failure code [DHUDDKB] Emrg. Steering Press. S. Short Circuit.....	40-648
Failure code [DJF1KA] Disconnection of Fuel Level Sensor.....	40-650
Failure code [DK55KA] Failure of FNR Lever Potentio.....	40-652
Failure code [DK55KY] Hot Short of FNR Lever Potentio Circuit.....	40-655
Failure code [DK55L5] Failure of FNR Lever Potentio.....	40-657
Failure code [DK59KA] Failure of Boom Lever Potentio (Main).....	40-658
Failure code [DK59KY] Hot Short of Boom Lever Potentio (Main).....	40-661
Failure code [DK59L8] Boom Lever Potentio (Main & Sub) Disagree	40-664
Failure code [DK5AKA] Failure of Boom Lever Potentio (Sub).....	40-668
Failure code [DK5AKY] Hot Short of Boom Lever Potentio (Sub).....	40-671
Failure code [DK5BKA] Failure of Bucket Lever Potentio (Main).....	40-674
Failure code [DK5BKY] Hot Short of Bucket Lever Potentio (Main).....	40-677
Failure code [DK5BL8] Bucket Lever Potentio (Main&Sub) Disagree	40-680
Failure code [DK5CKA] Failure of Bucket Lever Potentio (Sub).....	40-684
Failure code [DK5CKY] Hot Short of Bucket Lever Potentio (Sub).....	40-687
Failure code [DK5DKA] Failure of 3rd Lever Potentio (Main).....	40-690
Failure code [DK5DKY] Hot Short of 3rd Lever Potentio (Main).....	40-693
Failure code [DK5DL8] 3rd Lever Potentio (Main & Sub) Disagree.....	40-695
Failure code [DK5EKA] Failure of 3rd Lever Potentio (Sub).....	40-698
Failure code [DK5EKY] Hot Short of 3rd Lever Potentio (Sub).....	40-701
Failure code [DKA0KA] Failure of Boom Angle Sensor	40-703
Failure code [DKA0KY] Hot Short of Boom Angle Sensor Circuit	40-705
Failure code [DKA0L0] Boom Angle Sensor Dislocation	40-707
Failure code [DKA1KA] Failure of Bucket Angle Sensor.....	40-709
Failure code [DKA1KY] Hot Short of Bucket Angle Sensor Circuit.....	40-711
Failure code [DLF1KA] Disconnection of T/M Input Speed Sensor.....	40-713
Failure code [DLF1LC] Failure of T/M Input Speed Sensor.....	40-715
Failure code [DLM3KA] Disconnection of Radiator Fan Speed Sensor.....	40-717
Failure code [DLM3LC] Failure of Radiator Fan Speed Sensor.....	40-719
Failure code [DLT3KA] Disconnection of Output Speed Sens. (Main).....	40-721
Failure code [DLT3LC] Failure of Output Speed Sensor (Main).....	40-723
Failure code [DPQ1KR] LIN Discon (Switch Panel).....	40-725
Failure code [DPQ2KR] LIN Discon (LED Unit).....	40-728
Failure code [DPQ3KR] LIN Discon (Rear View Monitor)	40-731
Failure code [DSJ0KR] CAN2 Discon (Meter Unit).....	40-734
Failure code [DT20KB] Ground Fault of T/M Cut Off Indicator	40-736
Failure code [DT22KB] Ground Fault of Work Equip. Lock Indic.	40-738
Failure code [DV00KB] Ground Fault of Buzzer Output.....	40-740
Failure code [DW4PKA] Disconnection of Boom EPC Solenoid (Raise).....	40-742
Failure code [DW4PKB] Ground Fault of Boom EPC Solenoid (Raise).....	40-744
Failure code [DW4PKY] Hot Short of Boom EPC Solenoid (Raise).....	40-746

Failure code [DW4QKA] Disconnection of Boom EPC Solenoid (Lower)	40-748
Failure code [DW4QKB] Ground Fault of Boom EPC Solenoid (Lower)	40-750
Failure code [DW4QKY] Hot Short of Boom EPC Solenoid (Lower)	40-752
Failure code [DW4RKA] Disconnection of Bucket EPC Sol. (Tilt)	40-754
Failure code [DW4RKB] Ground Fault of Bucket EPC Solenoid (Tilt)	40-756
Failure code [DW4RKY] Hot Short of Bucket EPC Solenoid (Tilt)	40-758
Failure code [DW4SKA] Disconnection of Bucket EPC Sol. (Dump)	40-760
Failure code [DW4SKB] Ground Fault of Bucket EPC Solenoid (Dump)	40-762
Failure code [DW4SKY] Hot Short of Bucket EPC Solenoid (Dump)	40-764
Failure code [DW7BKA] Disconnection of Fan Reverse Solenoid	40-766
Failure code [DW7BKB] Ground Fault of Radiator Fan Rev. Sol.	40-768
Failure code [DW7BKY] Hot Short of Radiator Fan Rev. Sol.	40-770
Failure code [DWM1KA] Disconnection of Neutral Lock Solenoid	40-771
Failure code [DWM1KB] Ground Fault of Neutral Lock Solenoid	40-773
Failure code [DWM1KY] Hot Short of Neutral Lock Solenoid	40-775
Failure code [DWN6KA] Disconnection of Detent Solenoid (Boom)	40-777
Failure code [DWN6KB] Ground Fault of Detent Solenoid (Boom)	40-779
Failure code [DWN6KY] Hot Short of Detent Solenoid (Boom)	40-781
Failure code [DWN8KA] Disconnection of Detent Solenoid (Bucket)	40-783
Failure code [DWN8KB] Ground Fault of Detent Solenoid (Bucket)	40-785
Failure code [DWN8KY] Hot Short of Detent Solenoid (Bucket)	40-787
Failure code [DX16KA] Disconnection of Rad. Fan Pump EPC Sol.	40-789
Failure code [DX16KB] Ground Fault of Rad. Fan Pump EPC Sol.	40-791
Failure code [DX16KY] Hot Short of Radiator Fan Pump EPC Sol.	40-793
Failure code [DXA1KA] Disconnection of Loader Pump EPC Solenoid	40-795
Failure code [DXA1KB] Ground Fault of Loader Pump EPC Solenoid	40-797
Failure code [DXA1KY] Hot Short of Loader Pump EPC Solenoid	40-799
Failure code [DXANKA] Disconnection of Steering Pump EPC Sol.	40-801
Failure code [DXANKB] Ground Fault of Steering Pump EPC Solenoid	40-803
Failure code [DXANKY] Hot Short of Steering Pump EPC Solenoid	40-805
Failure code [DXH1KA] Disconnection of ECMV Solenoid (Lockup)	40-806
Failure code [DXH1KB] Ground Fault of ECMV Solenoid (Lockup)	40-808
Failure code [DXH1KY] Hot Short of ECMV Solenoid (Lockup)	40-810
Failure code [DXH4KA] Disconnection of ECMV Solenoid (1st)	40-812
Failure code [DXH4KB] Ground Fault of ECMV Solenoid (1st)	40-814
Failure code [DXH4KY] Hot Short of ECMV Solenoid (1st)	40-816
Failure code [DXH5KA] Disconnection of ECMV Solenoid (2nd)	40-818
Failure code [DXH5KB] Ground Fault of ECMV Solenoid (2nd)	40-820
Failure code [DXH5KY] Hot Short of ECMV Solenoid (2nd)	40-822
Failure code [DXH6KA] Disconnection of ECMV Solenoid (3rd)	40-824
Failure code [DXH6KB] Ground Fault of ECMV Solenoid (3rd)	40-826
Failure code [DXH6KY] Hot Short of ECMV Solenoid (3rd)	40-828
Failure code [DXH7KA] Disconnection of ECMV Solenoid (Reverse)	40-830
Failure code [DXH7KB] Ground Fault of ECMV Solenoid (Reverse)	40-832
Failure code [DXH7KY] Hot Short of ECMV Solenoid (Reverse)	40-834
Failure code [DXH8KA] Disconnection of ECMV Solenoid (Forward)	40-836
Failure code [DXH8KB] Ground Fault of ECMV Solenoid (Forward)	40-838
Failure code [DXH8KY] Hot Short of ECMV Solenoid (Forward)	40-840
Failure code [DXHHKA] Disconnection of ECMV Solenoid (4th)	40-842
Failure code [DXHHKB] Ground Fault of ECMV Solenoid (4th)	40-844
Failure code [DXHHKY] Hot Short of ECMV Solenoid (4th)	40-846
Failure code [DXHJKA] Disconnection of 3rd EPC Solenoid (EXT)	40-848
Failure code [DXHJKB] Ground Fault of 3rd EPC Solenoid (EXT)	40-850
Failure code [DXHJKY] Hot Short of 3rd EPC Solenoid (EXT)	40-852
Failure code [DXHKKA] Disconnection of 3rd EPC Solenoid (RET)	40-854
Failure code [DXHKKB] Ground Fault of 3rd EPC Solenoid (RET)	40-856
Failure code [DXHKKY] Hot Short of 3rd EPC Solenoid (RET)	40-858
Failure code [DY30MA] Malfunction 1 of Emerg. Steering Motor	40-860
Failure code [DY30MC] Malfunction 2 of Emerg. Steering Motor	40-863

Failure code [DY30ME] Emerg. Steering Long-Time Activated	40-867
Failure code [LA00L3] Failure of Fan Reverse	40-869
Troubleshooting of electrical system (E-mode)	40-870
E-1 Engine does not start.....	40-870
E-2 Manual preheating system does not work.....	40-876
E-3 Automatic preheating system does not work.....	40-879
E-4 While preheating is working, preheating monitor does not light up	40-881
E-5 All of LCD unit, LED unit, and meter unit on machine monitor display nothing	40-883
E-6 LCD unit on machine monitor displays nothing.....	40-886
E-7 Backlight of LCD unit on machine monitor is abnormal (Backlight goes out or flickers).....	40-888
E-8 LCD on machine monitor does not display properly	40-890
E-9 Meter unit display on machine monitor is abnormal	40-892
E-10 Night lighting lamp of meter unit on machine monitor is abnormal	40-895
E-11 Caution LED on machine monitor is abnormal.....	40-898
E-12 LED of switch panel on machine monitor is abnormal or switches does not operate properly	40-900
E-13 Two switches operation of switch panel on machine monitor does not function	40-902
E-14 Switch panel buzzer of machine monitor is abnormal.....	40-905
E-15 Rear view monitor does not light up or backlight flickers.....	40-907
E-16 Rear view monitor images are not displayed clearly.....	40-910
E-17 Rear view monitor brightness cannot be adjusted.....	40-913
E-18 Night lighting lamp of rear view monitor is abnormal	40-916
E-19 Some items of gauges and caution lamps on machine monitor are not displayed properly	40-918
E-20 Parking brake indicator lamp does not light when the parking brake is set to ON (Parking) position	40-919
E-21 When brake accumulator oil pressure drops, the brake oil pressure caution lamp does not light	40-923
E-22 Air cleaner clogging indicator lamp does not light	40-925
E-23 Radiator coolant level caution lamp does not light	40-926
E-24 Indication of hydraulic oil temperature gauge does not increase, or hydraulic oil temperature caution lamp does not light.....	40-928
E-25 Indication of torque converter oil temperature gauge does not increase, or torque converter oil temperature caution lamp does not light.....	40-930
E-26 Fuel level gauge does not indicate correct level	40-931
E-27 Seat belt caution lamp indication is abnormal.....	40-933
E-28 Horn does not sound	40-934
E-29 Horn does not stop sounding.....	40-937
E-30 Alarm buzzer does not sound	40-939
E-31 When starting switch is in ON position, alarm buzzer does not stop sounding	40-940
E-32 Kickdown does not work when kickdown switch is turned ON.....	40-941
E-33 The hold switch does not work when it is pressed.....	40-943
E-34 Parking brake does not work even if it is applied, or the brake drags when parking brake is released and FR drive is operated.....	40-945
E-35 Transmission cut-off mode is not selected or not released.....	40-948
E-36 Transmission cut-off setting cannot be released	40-950
E-37 Directional selector (FNR) switch mode is not selected or not released	40-952
E-38 When operating engine power selection switch, engine power selection function does not operate properly	40-954
E-39 Flow of loader pump does not increase from the minimum rate.....	40-956
E-40 ECSS function cannot be selected or cannot be released	40-957
E-41 None of headlamp, clearance lamp, and tail lamp lights	40-959
E-42 Clearance lamp and tail lamp do not light up or go out	40-961
E-43 Both High and Low beams of headlamp do not light up or go out	40-964
E-44 Low beam of headlamp does not light up or go out	40-968
E-45 High beam of headlamp does not light up or go out	40-970
E-46 Front working lamp does not light up or go out	40-972
E-47 Rear working lamp does not light up or go out.....	40-975

E-48 All of turn signal lamps and hazard lamps do not light up or go out	40-978
E-49 Turn signal lamps do not light up or go out	40-981
E-50 Hazard lamp does not light up or go out	40-984
E-51 Brake lamp does not light or stays lighted	40-987
E-52 Backup lamp does not light up or does not go out	40-990
E-53 Backup buzzer does not sound or continues to sound	40-993
E-54 Front wiper does not operate	40-995
E-55 Rear wiper does not operate	40-998
E-56 Window washer does not operate	40-1000
E-57 Fuel feed pump does not operate or stop automatically	40-1003
E-58 KOMTRAX system does not operate properly	40-1005
Troubleshooting of hydraulic and mechanical system (H-mode)	40-1007
Information described in troubleshooting table (H-mode)	40-1007
System chart of hydraulic and mechanical systems	40-1008
Failure mode and cause table	40-1011
H-1 Machine does not move off	40-1019
H-2 Torque converter lockup clutch is not disengaged (engine stalls)	40-1022
H-3 Torque converter lockup clutch is not engaged	40-1023
H-4 Travel speed is slow, bucket thrust force is weak, gradability is low, or gear speed does not shift	40-1024
H-5 Large shock is made when machine starts or gear is shifted	40-1027
H-6 Machine starts or gear speed shifts with long time lag	40-1029
H-7 Torque converter oil temperature is high	40-1031
H-8 Machine does not turn	40-1033
H-9 Turning response is poor	40-1035
H-10 Steering wheel is heavy to turn	40-1037
H-11 Machine sways or large shocks are made while machine turns	40-1038
H-12 Turning radius differs between right and left turns	40-1040
H-13 Wheel brakes do not work or are weak	40-1041
H-14 Wheel brakes are not released or drag	40-1043
H-15 Parking brake does not work or it is weak	40-1044
H-16 Parking brake is not released or drags (including emergency release system)	40-1045
H-17 Boom does not rise	40-1046
H-18 Boom moves slow or boom lacks lifting force	40-1048
H-19 Rising boom slows down at certain height	40-1050
H-20 Lift cylinders do not serve to hold bucket on ground	40-1051
H-21 Hydraulic drift of boom is large	40-1052
H-22 Boom moves up and down during operation	40-1053
H-23 Bucket does not tilt back	40-1054
H-24 Bucket moves slow or lacks tilt-back force	40-1056
H-25 Bucket decelerates during tilt-back operation	40-1058
H-26 Bucket cylinder does not hold bucket on ground	40-1059
H-27 Hydraulic drift of bucket is large	40-1060
H-28 Bucket tilts back and forth during carrying load (work equipment valve in HOLD)	40-1061
H-29 Boom and bucket control levers do not move smoothly and are heavy to move	40-1062
H-30 Operating work equipment causes engine speed to lower significantly or engine to stall	40-1063
H-31 Large shocks are made when work equipment starts to move and stops	40-1064
H-32 When certain work equipment stalls hydraulically, other work equipment moves	40-1066
H-33 E.C.S.S. (travel damper) does not work and machine pitches and bounces	40-1067
H-34 Bucket does not stop at the position which is set with remote bucket positioner	40-1068
H-35 Fan speed is abnormal (too high or low, or fan does not rotate)	40-1069
H-36 Unusual noise is heard from around fan	40-1070
Troubleshooting of engine (S-mode)	40-1071
Information mentioned in troubleshooting table (S mode)	40-1071
S-1 When starting switch is turned to START position, engine is not cranked	40-1072
S-2 The engine cranks but exhaust smoke does not come out	40-1073

S-3 Fuel is injected but engine does not start (incomplete combustion, engine seems to start but does not)	40-1074
S-4 Engine startability is poor	40-1075
S-5 Engine does not pick-up smoothly	40-1077
S-6 Engine stops during operation	40-1079
S-7 Engine runs rough or is unstable	40-1081
S-8 Engine lacks power	40-1082
S-9 KDPF gets clogged in a short time	40-1084
S-10 Engine oil consumption is excessive	40-1086
S-11 Engine oil becomes contaminated early	40-1087
S-12 Fuel consumption is excessive	40-1088
S-13 Oil is in coolant (or coolant spurts or coolant level goes down)	40-1089
S-14 Oil pressure drops	40-1090
S-15 Fuel mixes into engine oil	40-1091
S-16 Water mixes into engine oil (milky)	40-1092
S-17 Coolant temperature rises too high (overheating)	40-1093
S-18 Unusual noise is heard	40-1094
S-19 Vibration is excessive	40-1095
S-20 Air cannot be bled from fuel circuit	40-1096
S-21 Active regeneration is executed frequently	40-1097
S-22 Active regeneration takes a long time	40-1098
S-23 White smoke is exhausted during active regeneration	40-1099
50 Disassembly and assembly	50-1
Table of contents	50-2
General information on disassembly and assembly	50-4
How to read this manual	50-4
Coating materials list	50-6
Special tools list	50-10
Sketches of special tools	50-17
Engine and cooling system	50-47
Removal and installation of supply pump assembly	50-47
Removal and installation of injector assembly	50-53
Removal and installation of fuel doser assembly	50-61
Removal and installation of cylinder head assembly	50-63
Removal and installation of engine hood assembly	50-77
Removal and installation of grille assembly	50-79
Removal and installation of cooling system assembly	50-82
Removal and installation of radiator core assembly	50-85
Removal and installation of aftercooler	50-87
Removal and installation of hydraulic oil cooler	50-90
Removal and installation of power train oil cooler assembly	50-92
Removal and installation of engine assembly	50-96
Removal and installation of engine front oil seal	50-102
Removal and installation of engine rear oil seal	50-105
Removal and installation of cooling fan and cooling fan motor assembly	50-110
Removal and installation of KDPF assembly	50-112
Disassembly and assembly of KDPF assembly	50-117
Removal and installation of KCCV assembly	50-126
Removal and installation of KVG assembly	50-128
Removal and installation of EGR (Exhaust Gas Recirculation) valve assembly	50-133
Removal and installation of EGR (Exhaust Gas Recirculation) cooler assembly	50-134
Removal and installation of air cleaner assembly	50-136
Removal and installation of air conditioner compressor belt	50-138
Removal and installation of alternator belt	50-139
Removal and installation of fuel tank assembly	50-140
Power train	50-143
Removal and installation of torque converter and transmission assembly	50-143
Disassembly and assembly of transmission assembly	50-148
Disassembly and assembly of torque converter assembly	50-178

Disassembly and assembly of transmission clutch pack assembly	50-185
Removal and installation of front axle assembly	50-208
Removal and installation of rear axle assembly	50-210
Disassembly and assembly of axle housing assembly	50-215
Disassembly and assembly of differential assembly	50-225
Steering system	50-244
Removal and installation of steering valve assembly	50-244
Brake system	50-246
Removal and installation of brake charge valve assembly	50-246
Removal and installation of parking brake disc and plate	50-247
Undercarriage and frame	50-250
Removal and installation of center hinge pin	50-250
Removal and installation of counterweight assembly	50-258
Removal and installation of full-length fender assembly	50-260
Hydraulic system	50-261
Removal and installation of hydraulic tank assembly	50-261
Removal and installation of control valve assembly	50-264
Removal and installation of steering pump and power train pump assembly	50-267
Removal and installation of work equipment pump and cooling fan pump assembly	50-269
Disassembly and assembly of hydraulic cylinder assembly	50-271
Work equipment	50-278
Removal and installation of work equipment assembly	50-278
Cab and its attachments	50-283
Removal and installation of operator's cab and floor frame assembly	50-283
Removal and installation of operator's cab glass (stuck window glass)	50-287
Removal and installation of operator's seat assembly	50-295
Removal and installation of seat belt	50-297
Removal and installation of air conditioner unit assembly	50-298
Removal and installation of air conditioner compressor assembly	50-303
Removal and installation of air conditioner condenser assembly	50-305
Electrical system	50-307
Removal and installation of machine monitor assembly	50-307
Removal and installation of engine controller assembly	50-308
Removal and installation of work equipment controller assembly	50-309
Removal and installation of transmission controller assembly	50-311
Removal and installation of monitor controller assembly	50-312
Removal and installation of mass air flow and temperature sensor	50-314
Removal and installation of KOMTRAX terminal assembly	50-315
60 Maintenance standard	60-1
Table of contents	60-2
Engine and cooling system	60-3
Engine related parts	60-3
Cooling fan pump	60-4
Cooling fan motor	60-7
Power train	60-9
Drive shaft	60-9
Torque converter	60-10
Transmission	60-12
Transmission control valve	60-21
Forward and reverse clutch ECMV and 1st and 2nd clutch ECMV	60-23
3rd, 4th clutch ECMV	60-24
Lockup clutch ECMV	60-25
Main relief and torque converter relief valve	60-26
Axle	60-27
Differential	60-29
Final drive	60-39
Steering system	60-41
Steering column	60-41
Steering pump	60-42

00 Index and foreword

Index


Steering valve	60-46
Steering cylinder	60-48
Emergency steering pump	60-51
Brake system	60-52
Charge valve	60-52
Slack adjuster	60-54
Brake	60-55
Parking brake	60-57
Parking brake solenoid valve	60-58
Undercarriage and frame	60-59
Axle mount and center hinge pin	60-59
Hydraulic system	60-63
Hydraulic tank	60-63
Double type gear pump	60-64
Work equipment pump	60-65
Control valve	60-67
Work equipment	60-76
Work equipment linkage	60-76
Bucket	60-80
Work equipment cylinder	60-81
80 Appendix	80-1
Table of contents	80-2
Air conditioner components	80-3
Precautions for refrigerant	80-3
Air conditioner component	80-4
Configuration and function of refrigeration cycle	80-6
Outline of refrigeration cycle	80-7
Air conditioner unit	80-9
Dual pressure switch	80-14
Air conditioner controller	80-15
Compressor	80-16
Condenser	80-17
Receiver drier	80-18
Sunlight sensor	80-20
Outer temperature sensor (outside air temperature sensor)	80-21
Procedure for testing and troubleshooting	80-22
Circuit diagram and arrangement of connector pins	80-24
System diagram	80-27
Parts and connectors layout	80-30
Testing with self-diagnosis function	80-35
How to open the electrical system abnormality record screen in service mode of the machine monitor	80-36
Testing temperature control system	80-38
Testing vent (mode) changeover	80-40
Testing FRESH/RECIRC air changeover	80-42
Check evaporator temperature sensor	80-44
Testing relays	80-46
Troubleshooting chart 1	80-48
Troubleshooting chart 2	80-49
Information in troubleshooting table	80-51
Failure code list related to air conditioner	80-52
Failure code [879AKA] A/C Inner Sensor Open Circuit	80-53
Failure code [879AKB] A/C Inner Sensor Short Circuit	80-55
Failure code [879BKA] A/C Outer Sensor Open Circuit	80-57
Failure code [879BKB] A/C Outer Sensor Short Circuit	80-59
Failure code [879CKA] Ventilating Sensor Open Circuit	80-61
Failure code [879CKB] Ventilating Sensor Short Circuit	80-63
Failure code [879DKZ] Sunlight Sensor Open or Short Circuit	80-65
Failure code [879EMC] Ventilation Damper Abnormality	80-67

Failure code [879FMC] Air Mix Damper Abnormality	80-70
A-1 Troubleshooting for power supply and CAN communication system (Air conditioner does not operate).....	80-73
A-2 Troubleshooting for compressor and refrigerant system (Air is not cooled)	80-76
A-3 Troubleshooting for blower motor system (No air comes out or air flow is abnormal)	80-79
A-4 Troubleshooting for FRESH/RECIRC air changeover	80-82
Troubleshooting with gauge pressure.....	80-84
Connection of service tool.....	80-87
Precautions for disconnecting and connecting hoses and tubes in air conditioner circuit.....	80-89
Handling of compressor oil.....	80-91
90 Diagrams and drawings	90-1
Table of contents	90-2
Hydraulic circuit diagram	90-3
Symbols in hydraulic circuit diagram	90-3
Hydraulic circuit diagram of power train	90-7
Hydraulic circuit diagram.....	90-9
Electric circuit diagram	90-11
Symbols in electric circuit diagram	90-11
Electrical circuit diagram of machine body	90-15
Electrical circuit diagram of floor	90-25
Index.....	1


Foreword, safety and general information (ALL-0370-001-A-00-A)

Important safety notice (ALL-1120-012-A-01-A)

(Rev. 2012/01)

- Appropriate servicing and repair are extremely important to ensure safe operation of the machine. The shop manual describes the effective and safe servicing and repair methods recommended by Komatsu. Some of these methods require the use of the special tools designed by Komatsu for the specific purpose.
- The symbol mark  is used for such matters that require special cautions during the work. The work indicated by the caution mark should be performed according to the instructions with special attention to the cautions. Should hazardous situation occur or be anticipated during such work, be sure to keep safe first and take every necessary measure.

General precautions

 **Inappropriate handling causes an extreme danger. Read and understand what is described in the operation and maintenance manual before operating the machine. Read and understand what is described in this manual before starting the work.**

- Before performing any greasing or repairs, read all the safety labels stuck to the machine. For the locations of the safety labels and detailed explanation of precautions, see the operation and maintenance manual.
- Locate a place in the repair workshop to keep the tools and removed parts. Always keep the tools and parts in their correct places. Always keep the work area clean and make sure that there is no dirt, water or oil on the floor. Smoke only in the areas provided for smoking. Never smoke while working.
- When performing any work, always wear the safety shoes and helmet. Do not wear loose work cloths, or clothes with buttons missing.
 1. Always wear the protective eyeglasses when hitting parts with a hammer.
 2. Always wear the protective eyeglasses when grinding parts with a grinder, etc.
- When performing any work with two or more workers, always agree on the working procedure before starting. While working, always keep conversations of the work between your fellow workers and your self on any step of the work. During the work, hang the warning tag of "UNDER WORKING" in the operator's compartment.
- Only qualified workers must perform the work and operation which require license or qualification.
- Keep the tools in good condition. And learn the correct way to use the tools, and use the proper ones among them. Before starting the work, thoroughly check the tools, forklift truck, service car, etc.
- If welding repairs is required, always have a trained and experienced welder with good

knowledge of welding perform the work. When performing welding work, always wear welding gloves, apron, shielding goggles, cap, etc.

- Before starting work, warm up your body thoroughly to start work under good condition.
- Avoid continuing work for long hours and take rests with proper intervals to keep your body in good condition. Take a rest in a specified safe place.

Safety points

1	Good arrangement
2	Correct work clothes
3	Observance of work standard
4	Practice of making and checking signals
5	Prohibition of operation and handling by unlicensed workers
6	Safety check before starting work
7	Wearing protective goggles (for cleaning or grinding work)
8	Wearing shielding goggles and protectors (for welding work)
9	Good physical condition and preparation
10	Precautions against work which you are not used to or you are used to too much

Preparation

- Before adding oil or making any repairs, place the machine on a firm and level ground, and apply the parking brake and chock the wheels or tracks to prevent the machine from moving.
- Before starting work, lower the work equipment (blade, ripper, bucket, etc.) to the ground. If it is not possible to lower the equipment to the ground, insert the lock pin or use blocks to prevent the work equipment from falling. And be sure to lock all the work equipment control levers and hang a warning tag on them.
- When performing the disassembling or assembling work, support the machine securely with blocks, jacks, or stands before starting the work.
- Remove all of mud and oil from the steps or other places used to get on and off the machine completely. Always use the handrails, ladders of