SEN06516-C1

Shop Manual

HYDRAULIC
EXCAVATOR

PC210LC-11

SERIAL NUMBERS C80001 and up

ecot3

KOMATSU®

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INDEX

00 INDEX AND FOREWORD 00-1
ABBREVIATION LIST 00-19
FOREWORD, SAFETY, BASIC INFORMATION 00-24
HOW TO READ THE SHOP MANUAL 00-24
SAFETY NOTICE FOR OPERATION 00-26
PRECAUTIONS TO PREVENT FIRE 00-34
ACTIONS IF FIRE OCCURS 00-36
PRECAUTIONS FOR DISPOSING OF WASTE MATERIALS 00-37
ACTIONS TAKEN TO MEET EXHAUST GAS REGULATIONS 00-38
PRECAUTIONS FOR DEF 00-39
PRECAUTIONS FOR HANDLING HYDRAULIC EQUIPMENT 00-40
PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF PIPINGS 00-43
PRECAUTIONS FOR HANDLING ELECTRICAL EQUIPMENT 00-49
PRECAUTIONS FOR HANDLING FUEL SYSTEM EQUIPMENT 00-51
PRECAUTIONS FOR HANDLING INTAKE SYSTEM EQUIPMENT 00-52
PRACTICAL USE OF KOMTRAX 00-53
DISCONNECT AND CONNECT PUSH-PULL TYPE COUPLER 00-54
PRECAUTIONS FOR DISCONNECTION AND CONNECTION OF CONNECTORS 00-58
METHOD FOR DISCONNECTING AND CONNECTING DEUTSCH CONNECTOR 00-62
METHOD FOR DISCONNECTING AND CONNECTING SLIDE LOCK TYPE CONNECTOR 00-63
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH LOCK TO PULL ... 00-65
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH LOCK TO PUSH .. 00-66
METHOD FOR DISCONNECTING AND CONNECTING CONNECTOR WITH HOUSING TO ROTATE 00-68
HOW TO READ ELECTRICAL WIRE CODE 00-69
EXPLANATION OF TERMS FOR MAINTENANCE STANDARD 00-73
STANDARD TIGHTENING TORQUE TABLE 00-76
CONVERSION TABLE 00-83
01 SPECIFICATIONS 01-1
CONTENTS 01-2
ABBREVIATION LIST 01-3
SPECIFICATIONS 01-8
SPECIFICATION DRAWING 01-8
WORKING RANGE DRAWINGS 01-9
SPECIFICATIONS 01-10
WEIGHT TABLE 01-13
TABLE OF FUEL, COOLANT, AND LUBRICANTS 01-15
10 STRUCTURE AND FUNCTION 10-1
CONTENTS 10-2
ABBREVIATION LIST 10-5
UREA SCR SYSTEM 10-10
LAYOUT DRAWING OF UREA SCR SYSTEM 10-11
UREA SCR SYSTEM DIAGRAM 10-16
FUNCTION OF UREA SCR SYSTEM 10-17
COMPONENT PARTS OF UREA SCR SYSTEM 10-34
BOOT-UP SYSTEM 10-43
LAYOUT DRAWING OF BOOT-UP SYSTEM 10-43
SYSTEM OPERATING LAMP SYSTEM 10-45
BATTERY DISCONNECT SWITCH 10-46
ENGINE SYSTEM 10-47
LAYOUT DRAWING OF ENGINE SYSTEM 10-47
ENGINE CONTROL SYSTEM 10-49
AUTO-DECELERATION SYSTEM 10-52
ENGINE AUTOMATIC WARM-UP SYSTEM 10-54
OVERHEAT PREVENTION SYSTEM 10-56
TURBOCHARGER PROTECTION SYSTEM 10-59

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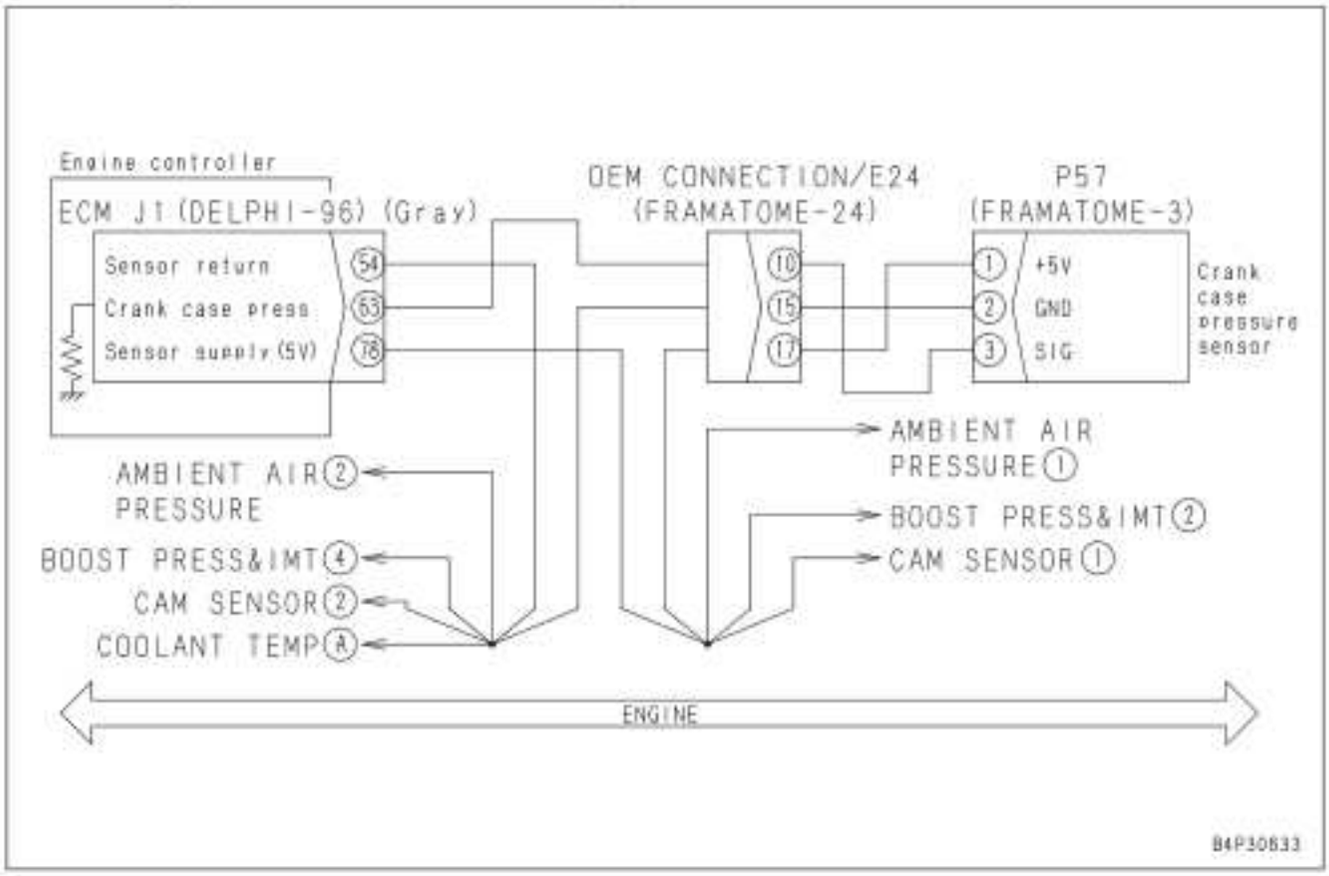
AUTOMATIC IDLE STOP SYSTEM 10-61
COMPONENT PARTS OF ENGINE SYSTEM 10-64
COOLING SYSTEM 10-83
LAYOUT DRAWING OF COOLING SYSTEM 10-83
FAN SPEED CONTROL SYSTEM OF FAN CLUTCH 10-85
ENGINE OUTPUT CONTROL SYSTEM OF FAN CLUTCH 10-87
COMPONENT PARTS OF COOLING SYSTEM 10-89
CONTROL SYSTEM 10-90
LAYOUT DRAWING OF CONTROL SYSTEM 10-90
MACHINE MONITOR SYSTEM 10-93
KOMTRAX SYSTEM 10-94
COMPONENT PARTS OF CONTROL SYSTEM 10-95
HYDRAULIC SYSTEM 10-127
LAYOUT DRAWING OF HYDRAULIC SYSTEM 10-127
CLSS 10-133
ENGINE AND PUMP COMBINED CONTROL SYSTEM 10-153
PUMP AND VALVE CONTROL SYSTEM 10-159
COMPONENT PARTS OF HYDRAULIC SYSTEM 10-162
WORK EQUIPMENT SYSTEM 10-248
LAYOUT DRAWING OF WORK EQUIPMENT SYSTEM 10-248
STRUCTURE OF VALVE CONTROL 10-253
ONE-TOUCH POWER MAXIMIZING SYSTEM 10-255
PPC LOCK SYSTEM 10-257
WORK EQUIPMENT AND TRAVEL AUTOMATIC LOCK SYSTEM 10-258
OIL FLOW ADJUSTER SYSTEM FOR ATTACHMENT 10-260
COMPONENT PARTS OF WORK EQUIPMENT SYSTEM 10-262
SWING SYSTEM 10-295
LAYOUT DRAWING OF SWING SYSTEM 10-295
SWING CONTROL SYSTEM DIAGRAM 10-299
COMPONENT PARTS OF SWING SYSTEM 10-303
TRAVEL SYSTEM 10-318
LAYOUT DRAWING OF TRAVEL SYSTEM 10-318
TRAVEL CONTROL SYSTEM DIAGRAM 10-322
COMPONENT PARTS OF TRAVEL SYSTEM 10-324
UNDERCARRIAGE AND FRAME 10-345
LAYOUT DRAWING OF UNDERCARRIAGE 10-345
WORK EQUIPMENT 10-347
STRUCTURE OF WORK EQUIPMENT 10-347
FUNCTION OF WORK EQUIPMENT 10-347
WORK EQUIPMENT CLEARANCE ADJUSTMENT SHIM 10-348
BUCKET CLEARANCE ADJUSTMENT SHIM 10-348
CAB AND ITS ATTACHMENTS 10-349
ROPS CAB 10-349
CAB MOUNT 10-350
CAB TIPPING STOPPER 10-351
20 STANDARD VALUE TABLE 20-1
CONTENTS 20-2
ABBREVIATION LIST 20-3
STANDARD VALUE TABLE FOR ENGINE 20-8
STANDARD VALUE TABLE FOR ENGINE: PC210LC-11 20-8
STANDARD VALUE TABLE FOR MACHINE 20-12
STANDARD VALUE TABLE FOR MACHINE: PC210LC-11 20-12
MACHINE POSTURE AND PROCEDURE FOR MEASURING PERFORMANCE 20-25
STANDARD VALUE TABLE FOR ELECTRICAL 20-29
STANDARD VALUE TABLE FOR ELECTRICAL 20-29
30 TESTING AND ADJUSTING 30-1
CONTENTS 30-2
ABBREVIATION LIST 30-5

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RELATED INFORMATION ON TESTING AND ADJUSTING 30-10
TOOLS FOR TESTING AND ADJUSTING 30-10
SKETCH OF TOOLS FOR TESTING AND ADJUSTING 30-16
ENGINE AND COOLING SYSTEM 30-17
TEST ENGINE SPEED 30-17
TEST BOOST PRESSURE 30-20
TEST EXHAUST GAS COLOR 30-22
TEST AND ADJUST VALVE CLEARANCE 30-25
TEST COMPRESSION PRESSURE 30-27
TEST BLOWBY PRESSURE 30-32
TEST ENGINE OIL PRESSURE 30-34
TEST EGR VALVE AND VGT OIL PRESSURE 30-35
TEST FUEL PRESSURE 30-37
TEST FUEL DISCHARGE, RETURN AND LEAKAGE 30-43
BLEEDING AIR FROM FUEL SYSTEM 30-49
TEST FUEL CIRCUIT FOR LEAKAGE 30-50
HANDLE CYLINDER CUT-OUT MODE OPERATION 30-52
HANDLE NO-INJECTION CRANKING OPERATION 30-53
TEST AND ADJUST AIR CONDITIONER COMPRESSOR BELT TENSION 30-54
TEST COOLING FAN SPEED 30-56
WRITE ASH IN SOOT ACCUMULATION CORRECTION TO ENGINE CONTROLLER 30-57
TEST SCR RELATED FUNCTIONS 30-58
CLEAN AdBlue/DEF TANK 30-83
BLEED AIR FROM COOLANT CIRCUIT OF AdBlue/DEF TANK 30-87
POWER TRAIN 30-89
TEST SWING CIRCLE BEARING CLEARANCE 30-89
UNDERCARRIAGE AND FRAME 30-90
TEST AND ADJUST TRACK TENSION 30-90
HYDRAULIC SYSTEM 30-92
RELEASE REMAINING PRESSURE FROM HYDRAULIC SYSTEM 30-92
TEST AND ADJUST OIL PRESSURE IN WORK EQUIPMENT, SWING, AND TRAVEL CIRCUITS 30-93
TEST OIL PRESSURE OF CONTROL CIRCUIT 30-103
TEST AND ADJUST OIL PRESSURE IN PUMP PC CONTROL CIRCUIT 30-105
TEST AND ADJUST OIL PRESSURE IN PUMP LS CONTROL CIRCUIT 30-108
TEST OUTLET PRESSURE OF SOLENOID VALVE 30-115
TEST PPC VALVE OUTLET PRESSURE 30-119
ADJUST WORK EQUIPMENT AND SWING PPC VALVES 30-121
TEST PUMP SWASH PLATE SENSOR 30-122
TEST THE PARTS CAUSING HYDRAULIC DRIFT IN WORK EQUIPMENT 30-123
TEST OIL LEAKAGE 30-125
BLEED AIR FROM HYDRAULIC CIRCUIT 30-128
CAB AND ITS ATTACHMENTS 30-132
TEST CAB TIPPING STOPPER 30-132
METHOD FOR ADJUSTING MIRRORS 30-133
ELECTRICAL SYSTEM 30-139
SET AND OPERATE MACHINE MONITOR 30-139
METHOD FOR STARTING UP KOMTRAX TERMINAL 30-216
ADJUST REARVIEW CAMERA ANGLE 30-221
HANDLE VOLTAGE CIRCUIT OF ENGINE CONTROLLER 30-224
HANDLE BATTERY DISCONNECT SWITCH 30-225
TEST DIODES 30-226
Pm CLINIC 30-227
Pm CLINIC SERVICE 30-227
40 TROUBLESHOOTING 40-1
CONTENTS 40-2
ABBREVIATION LIST 40-12
RELATED INFORMATION ON TROUBLESHOOTING 40-17

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Circuit diagram related to crankcase pressure sensor



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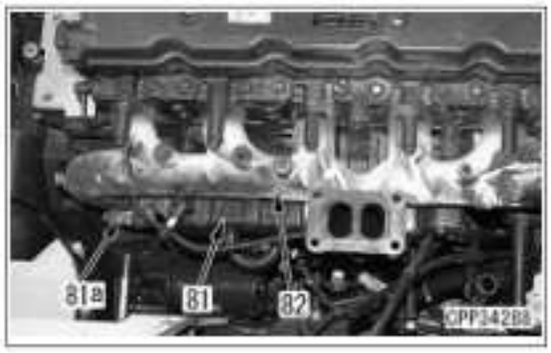
FAILURE CODE [CA4739]

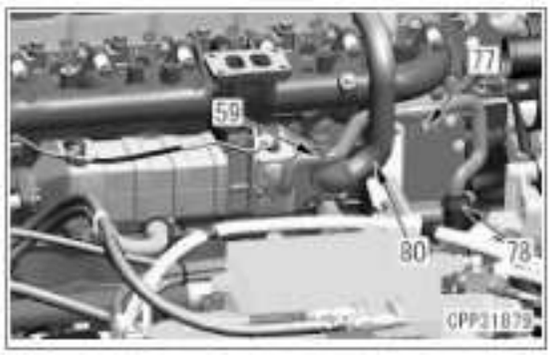
Action level	Failure code	Failure	AdBlue/DEF Level Sensor Internal Circuit Error (Engine controller system)
L01	CA4739		
Detail of failure	AdBlue/DEF level sensor is defective (an error is detected in level measurement circuit)		
Action of controller	Advances to Inducement strategy. (EU Specification).		
Phenomenon on machine	• AdBlue/DEF level cannot be measured. • Engine output is reduced based on inducement strategy. (EU Specification).		
Related information	• AdBlue/DEF level sensor is one of AdBlue/DEF tank sensors and is integrated with AdBlue/DEF temperature sensor and AdBlue/DEF quality sensor, providing CAN communication with the engine controller. • This failure code is displayed when the engine controller receives information stating the level measurement circuit is abnormal. • After repairing, check if the failure code is cleared by the following procedure. Procedure: Turn starting switch to ON position.		

No.	Cause	Procedure, measuring location, criteria and remarks
1	Defective wiring harness connector	1. See descriptions of wiring harness and connectors in "Electrical equipment" in "CHECKS BEFORE TROUBLESHOOTING" of "RELATED INFORMATION ON TROUBLESHOOTING", and check it. 2. Turn starting switch to ON position.
		If this failure code is cleared, wiring harness connector is defective.
2	Defective AdBlue/DEF tank sensor	1. Check the sensor connector for contamination and damage. 2. Turn starting switch to OFF position. 3. Replace the AdBlue/DEF tank sensor. 4. Turn starting switch to ON position.
		If this failure code is cleared, any internal parts in the original AdBlue/DEF tank sensor is defective. (In case of an internal defect, troubleshooting is impossible as an assembly. Replace whole assembly.)
3	Defective engine controller	If no failure is found by above checks, engine controller is defective. (Since this is an internal defect, troubleshooting cannot be performed.)

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38. Tighten mounting bolt (81a) to the specified torque.
    - Mounting bolt:
      43±6 Nm {4.4±0.6 kgm}
39. Install EGR cooler (81) to bracket with bolt by tightening to the specified torque.
    - Mounting bolt:
      24±4 Nm {2.45±0.41 kgm}
40. Install tube (83).
    - Joint bolt:
      12 ± 2 Nm {1.2 ± 0.2 kgm}
    - Sleeve nut:
      15±1 Nm {1.5±0.1 kgm}
41. Install tube (59).
    - Hose clamp (78):
      5±5 Nm {0.5±0.1 kgm}
    - Tube mounting bolt (59):
      9.5±2 Nm {0.96±0.2 kgm}
    - Tube mounting bolt (80):
      24±4 Nm {2.45±0.41 kgm}
42. Install tube clamp (77).
    - Mounting bolt:
      9.5±2 Nm {0.96±0.2 kgm}





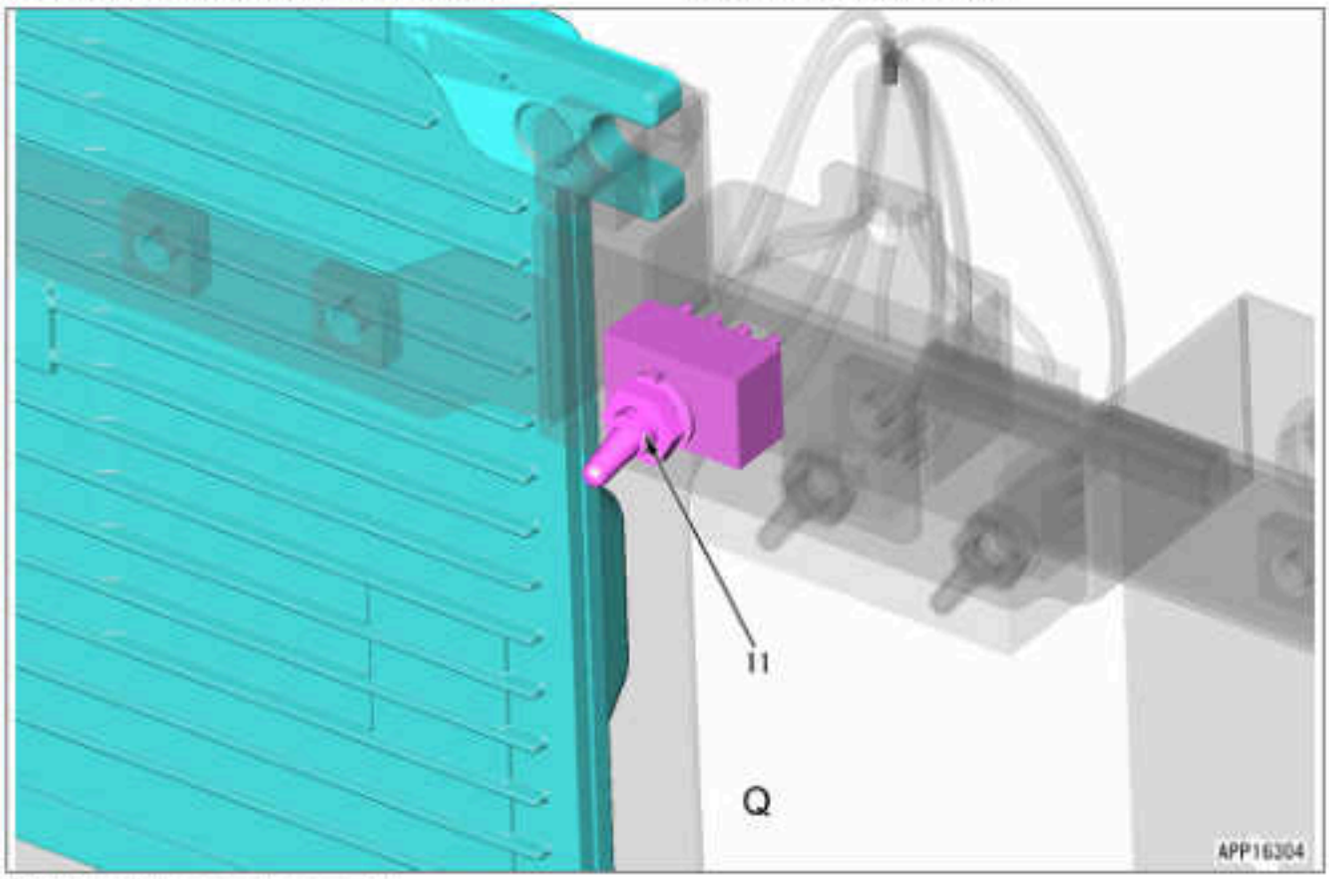
Alternator

43. Install alternator (73).
    - Mounting bolt (bracket side):
      43±6 Nm {4.4±0.6 kgm}
    - Mounting bolt (plate side):
      24±73 Nm {2.45±0.41 kgm}
44. Install terminal E (74), terminal B (75), and terminal R (75a) to alternator (73).
    - Terminal E (74):
      3.4 to 4.4 Nm {0.35 to 0.45 kgm}
    - Terminal B (75):
      7.3 to 9.3 Nm {0.74 to 0.95 kgm}
    - Terminal R (75a):
      2.4 to 3 Nm {0.24 to 0.31 kgm}
45. Install wiring harness clamp (76).
46. Install alternator belt (72).



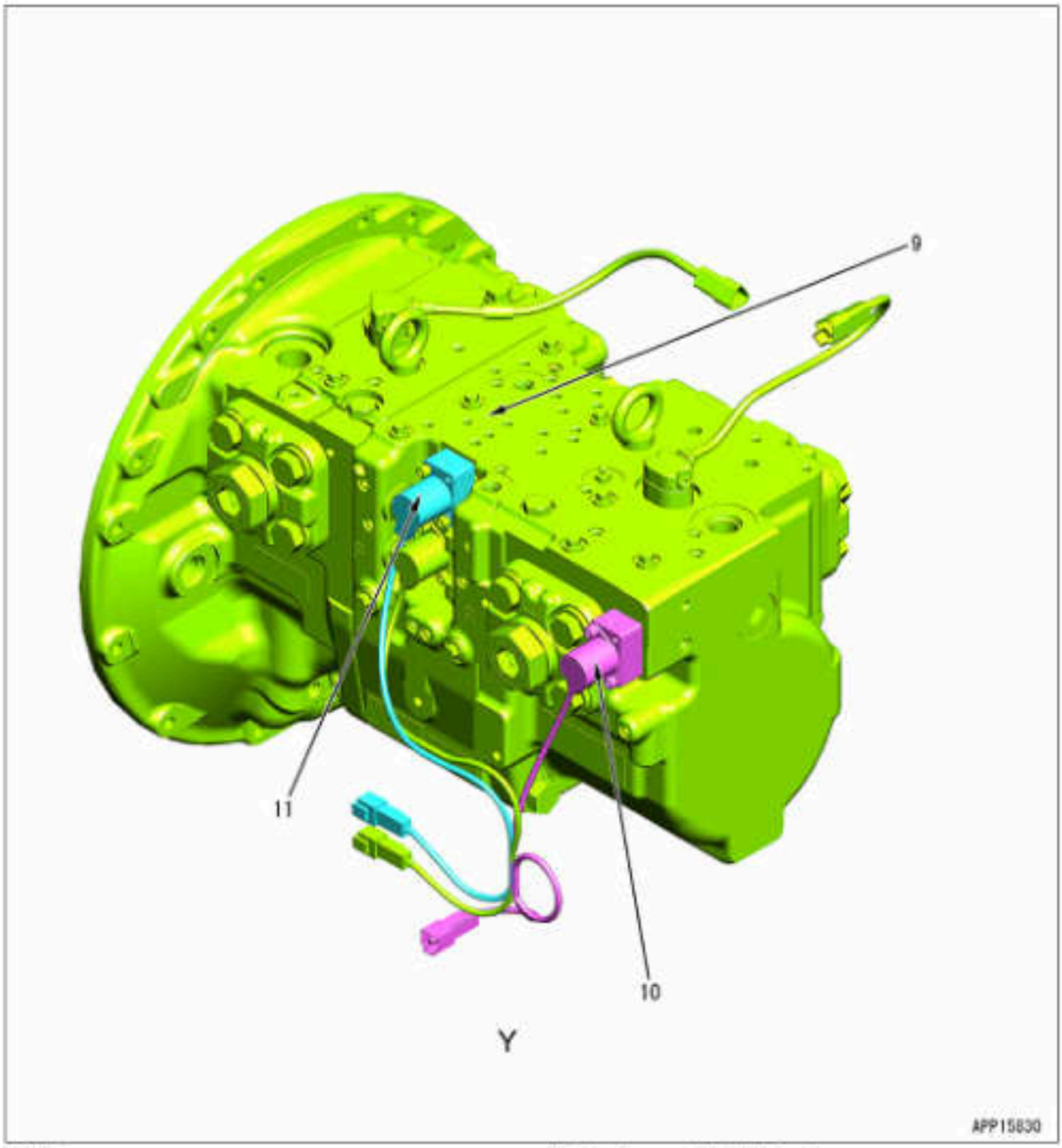
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3: Pump controller
4: Resistor for PC-EPC valve
5: One-touch power maximizing switch
6: R.H. travel FORWARD pressure sensor
7: L.H. travel FORWARD pressure sensor
8: L.H. travel REVERSE pressure sensor
9: R.H. travel REVERSE pressure sensor
10: Service pressure switch



11: Pump drive secondary switch

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9: Main pump
10: Rear pump PC-EPC valve
11: Front pump PC-EPC valve

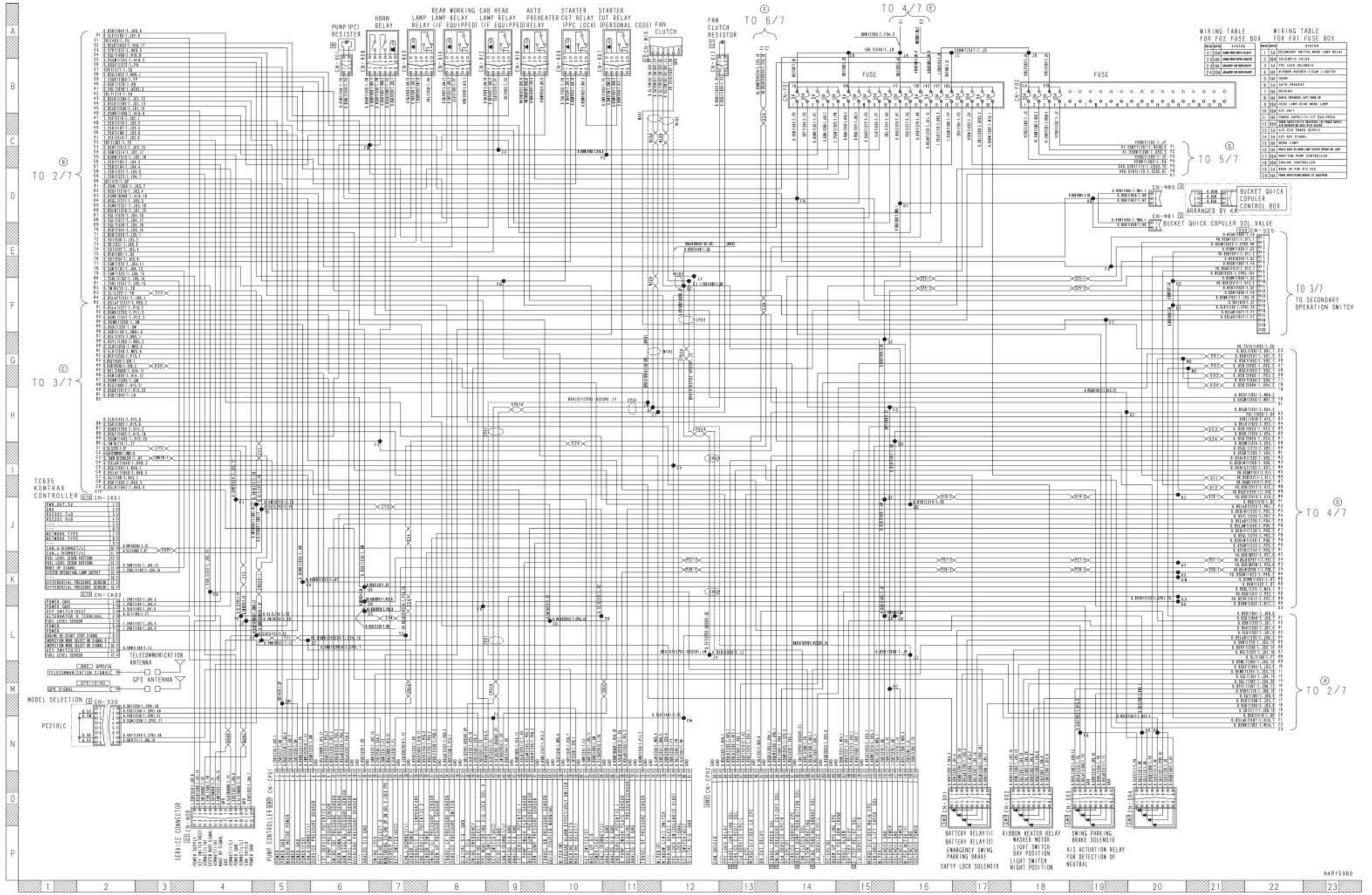
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ELECTRICAL CIRCUIT DIAGRAM (1/7)

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REMARK

This figure covers the equipment and devices that are unavailable as optional items in some areas.



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