SEN06516-01

Shop Manual

HYDRAULIC
EXCAVATOR

PC210LC-11

SERIAL NUMBERS 500001 and up

KOMATSU®

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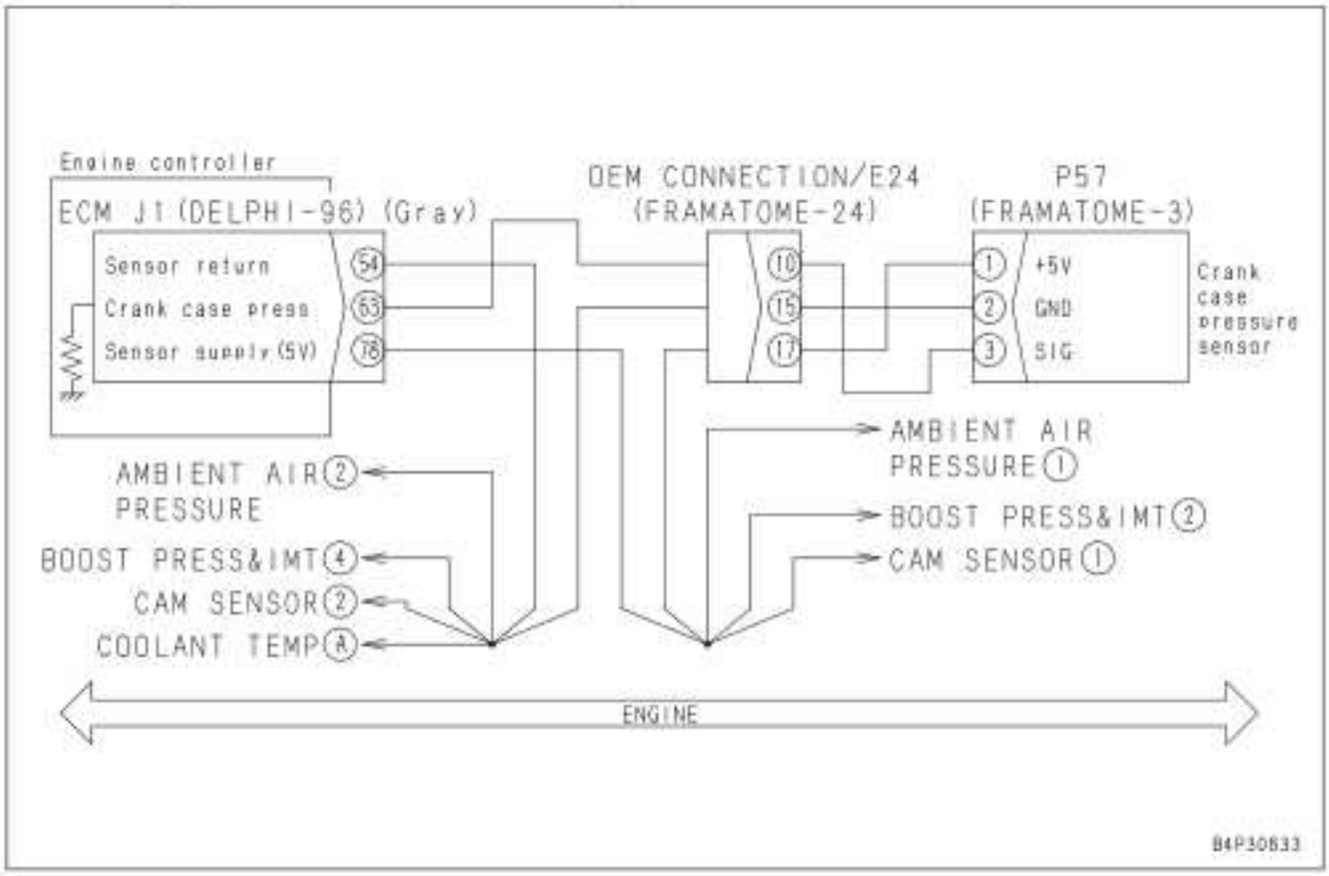
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Circuit diagram related to crankcase pressure sensor



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FAILURE CODE [CA4739]

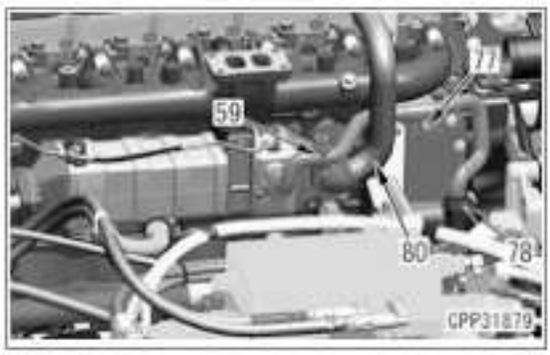
Action level	Failure code	Failure	AdBlue/DEF Level Sensor Internal Circuit Error (Engine controller system)
L01	CA4739		
Detail of failure	AdBlue/DEF level sensor is defective (an error is detected in level measurement circuit)		
Action of controller	Advances to Inducement strategy. (EU Specification).		
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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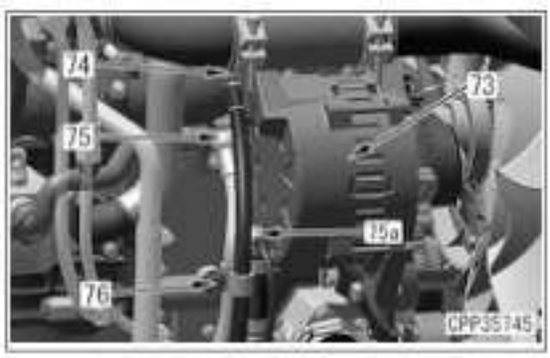
38. Tighten mounting bolt (81a) to the specified torque.
    - Mounting bolt:
      43±6 Nm {4.4±0.6 kgm}
39. Install EGR cooler (81) to bracket with bolt by tightening to the specified torque.
    - Mounting bolt:
      24±4 Nm {2.45±0.41 kgm}
40. Install tube (83).
    - Joint bolt:
      12 ± 2 Nm {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}





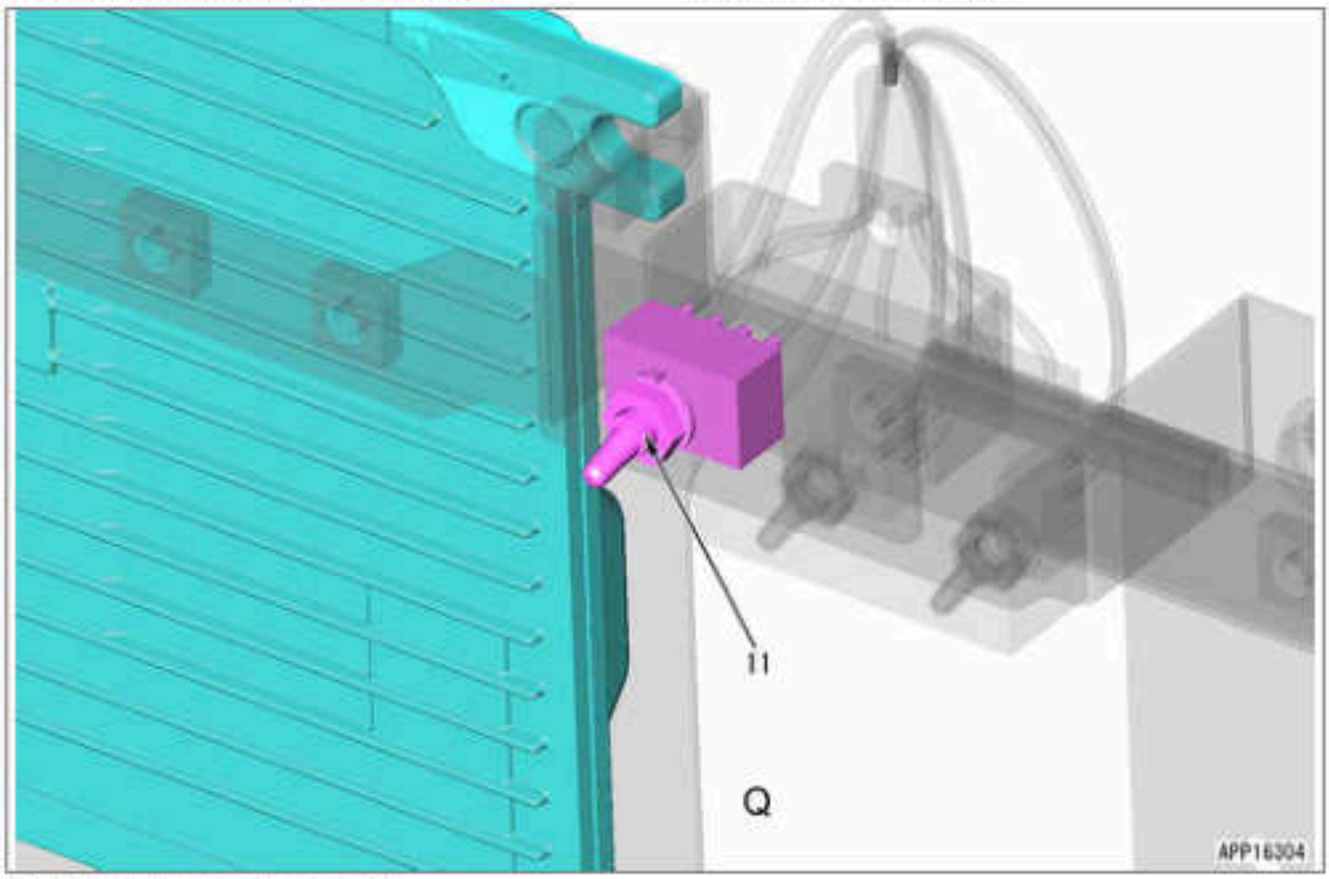
Alternator

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).



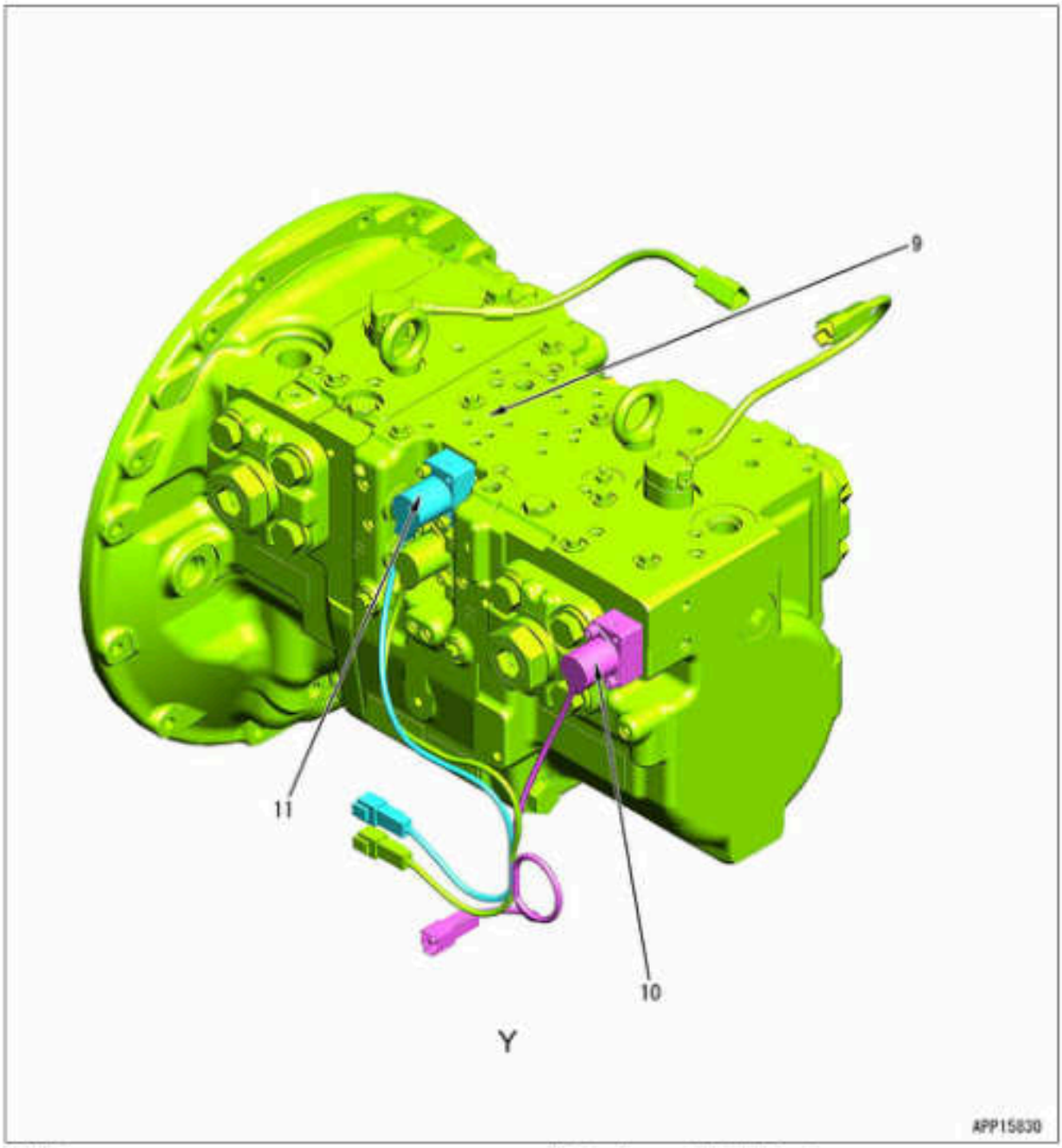
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3: Pump controller
4: Resistor for PC-EPC valve
5: One-touch power maximizing switch
6: R.H. travel FORWARD pressure sensor
7: L.H. travel FORWARD pressure sensor
8: L.H. travel REVERSE pressure sensor
9: R.H. travel REVERSE pressure sensor
10: Service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

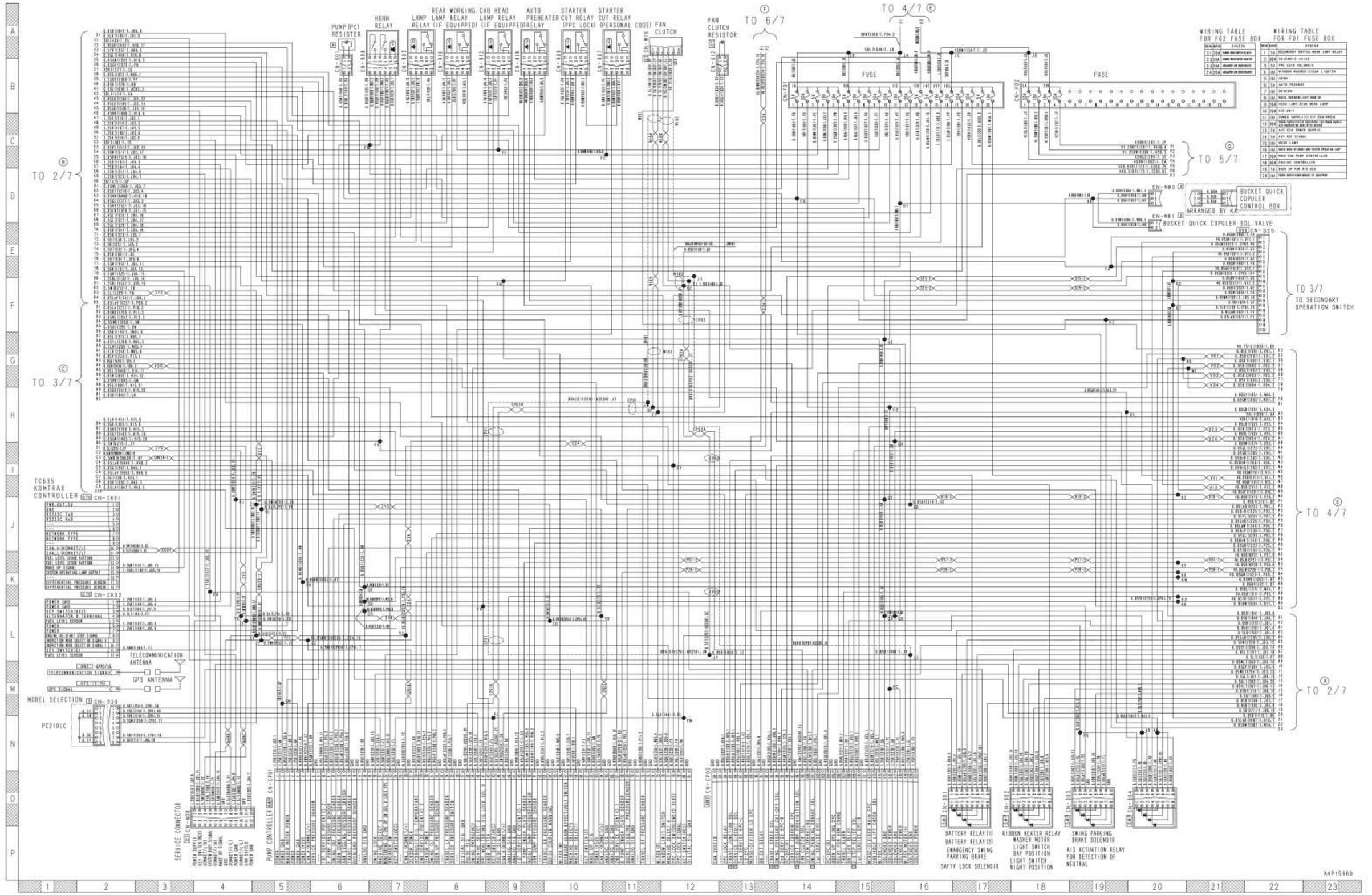
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ELECTRICAL CIRCUIT DIAGRAM (1/7)

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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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