SEN06601-03

Shop Manual

HYDRAULIC
EXCAVATOR

PC360LCi-11

SERIAL NUMBERS 90156 and up

KOMATSU®

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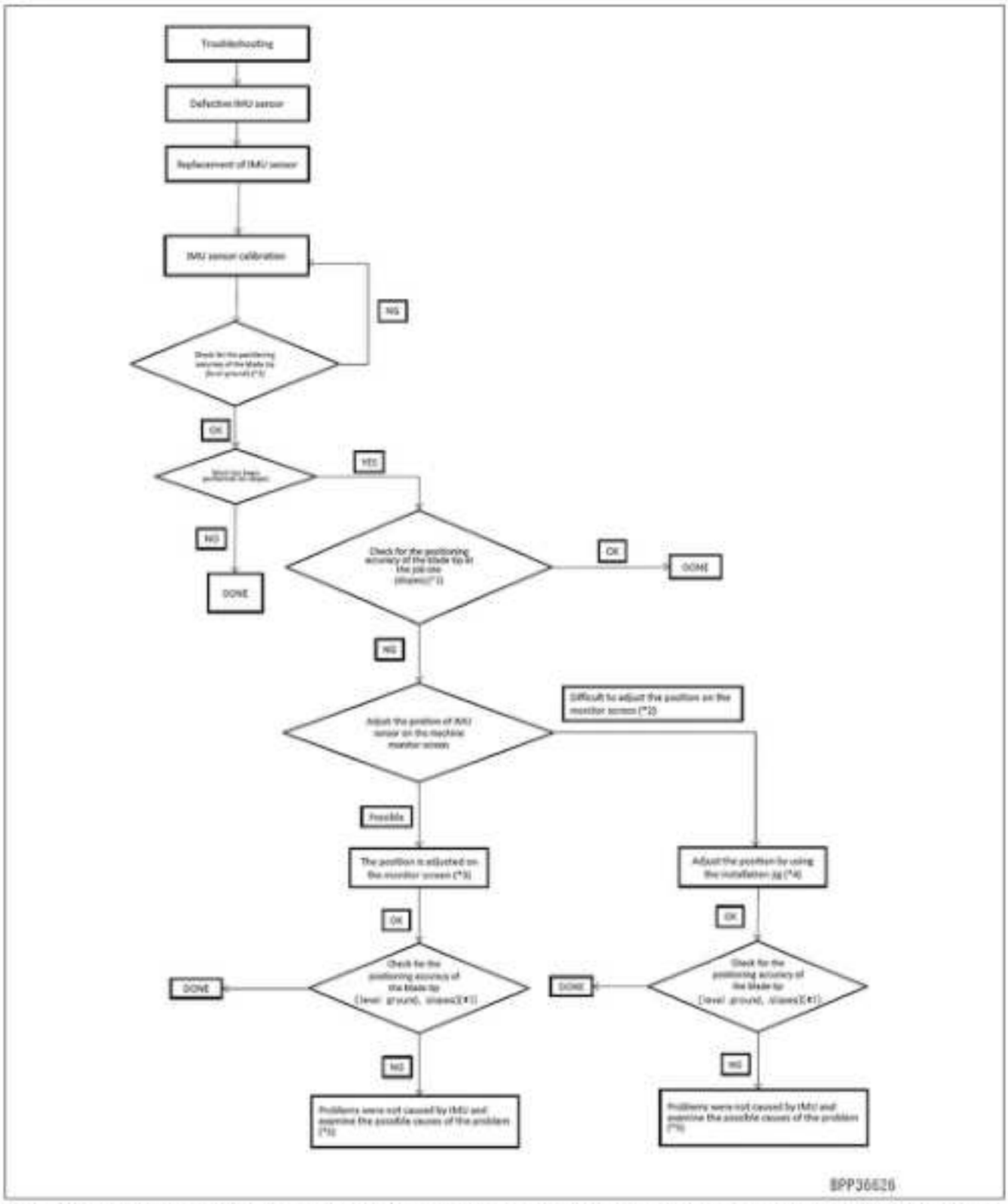
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Adjustment flow chart of IMU sensor



*1: Check for the positioning accuracy of the blade tip. See the procedure 111.-15 of "METHOD FOR CALIBRATING BUCKET BLADE EDGE POSITION, BOOM DIMENSIONS, ARM DIMENSIONS, BUCKET LINK DIMENSIONS, AND GNSS ANTENNA POSITION WITH TOTAL STATION".

*2: The following factors made the calibration of IMU sensor on the monitor more difficult.

- Unable to collect all the necessary equipments for the calibration
- Problem with weak satellite signal at the job site

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Related information	Failure code [DKVBKA] Bucket CURL PPC Reduce Press EPC Open Cir Failure code [DKVBKB] Bucket CURL PPC Reduce Press EPC Grd Fault Failure code [DKVBKY] Bucket CURL PPC Reduce Press EPC Hot Short Failure code [DKVCKA] Boom RAISE PPC Intervention EPC Open Cir Failure code [DKVCKB] Boom RAISE PPC Intervention EPC Grnd Fault Failure code [DKVCKY] Boom RAISE PPC Intervention EPC Hot Short Failure code [DKVDKA] Boom RAISE EPC Cut Relay Open Circuit Failure code [DKVDKB] Boom RAISE EPC Cut Relay Ground Fault Failure code [DKVDKY] Boom RAISE EPC Cut Relay Hot Short Circuit Failure code [DKVDMA] Boom RAISE EPC Cut Relay Error Failure code [DW4FKA] Boom LOWER PPC Reduce Press EPC Open Cir Failure code [DW4FKB] Boom LOWER PPC Reduce Press EPC Grnd Fault Failure code [DW4FKY] Boom LOWER PPC Reduce Press EPC Hot Short Failure code [DW4GKA] Boom RAISE PPC Reduce Press EPC Open Cir Failure code [DW4GKB] Boom RAISE PPC Reduce Press EPC Grnd Fault Failure code [DW4GKY] Boom RAISE PPC Reduce Press EPC Hot Short Failure code [DW4SKA] Bucket DUMP PPC Reduce Press EPC Open Cir Failure code [DW4SKB] Bucket DUMP PPC Reduce Press EPC Grnd Fault Failure code [DW4SKY] Bucket DUMP PPC Reduce Press EPC Hot Short

No.	Cause	Procedure, measuring location, criteria and remarks
1	Defective sensor circuit	Perform troubleshooting for preceding failure codes.

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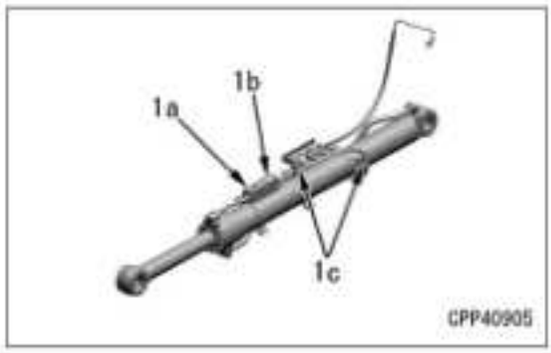
Boom cylinder stroke sensor wiring harness

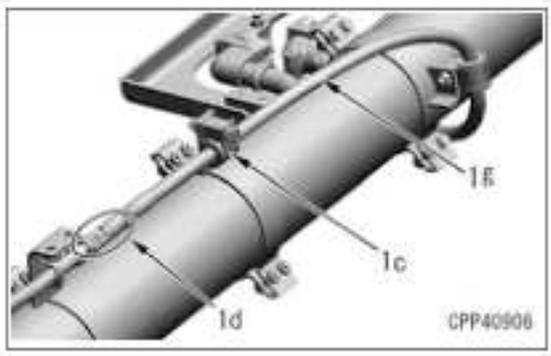
5. Remove the bolts (1a) (2 pieces), and remove the cover (1b).
6. Remove the clamp (1c).

NOTICE

When removing the clamp (1c), be careful not to apply excessive force to the connector (1d).

⚠ If pulling the sensor wiring harness protection hose (1g), wire breakage of the wiring harness (1g) may occur. Do not pull the sensor wiring harness protection hose (1g) under all conditions.



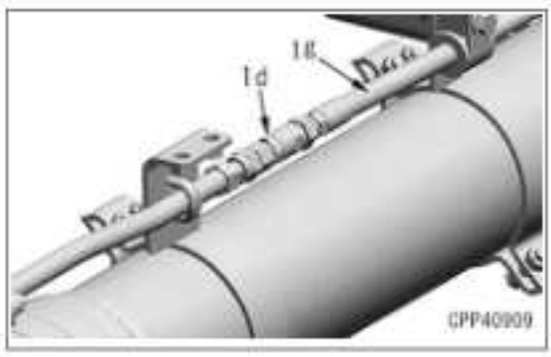


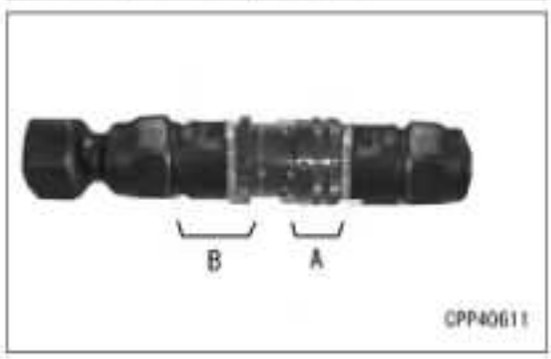
7. Disconnect the connector (1d).

When disconnecting the connector (1d), hold the part (B) by hand, and rotate the part (A) to the left (toward the front in the direction of the photo), and then pull the connector out straight in the axial direction.

⚠ Never rotate any parts other than the part (A) or never use any tool to rotate the part (A). Otherwise, the connector may be damaged.

⚠ If pulling the sensor wiring harness protection hose (1g), wire breakage of the wiring harness (1g) may occur. Do not pull the sensor wiring harness protection hose (1g) under all conditions.

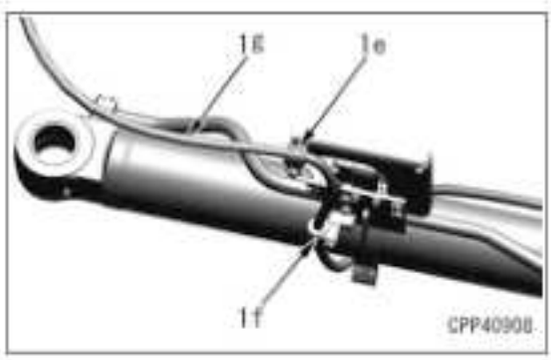




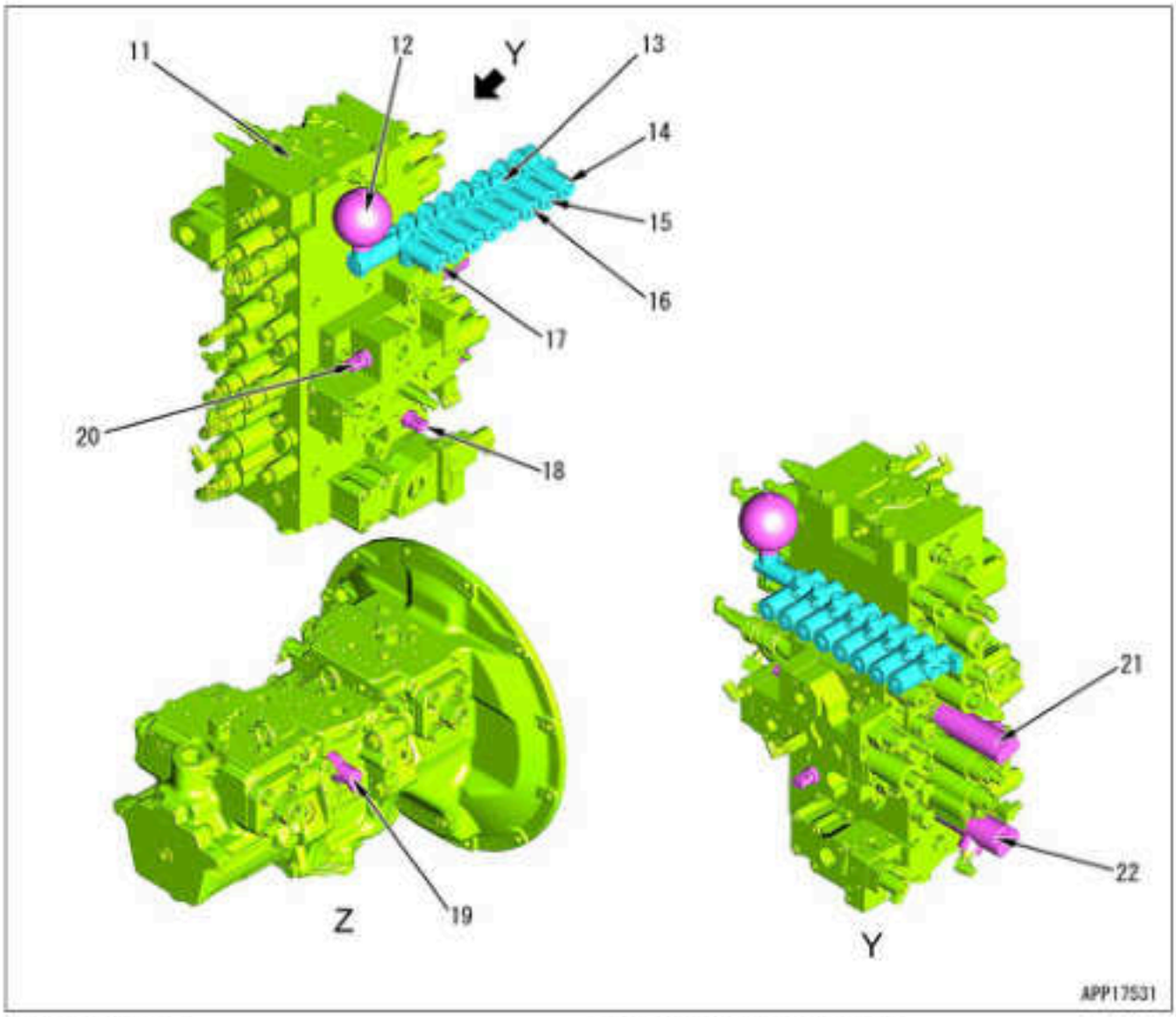
8. Remove the clamps (1e) and (1f).

Reposition the removed wiring harness out of the way to prevent it from being damaged when removing the cylinder.

⚠ If pulling the sensor wiring harness protection hose (1g), wire breakage of the wiring harness (1g) may occur. Do not pull the sensor wiring harness protection hose (1g) under all conditions.

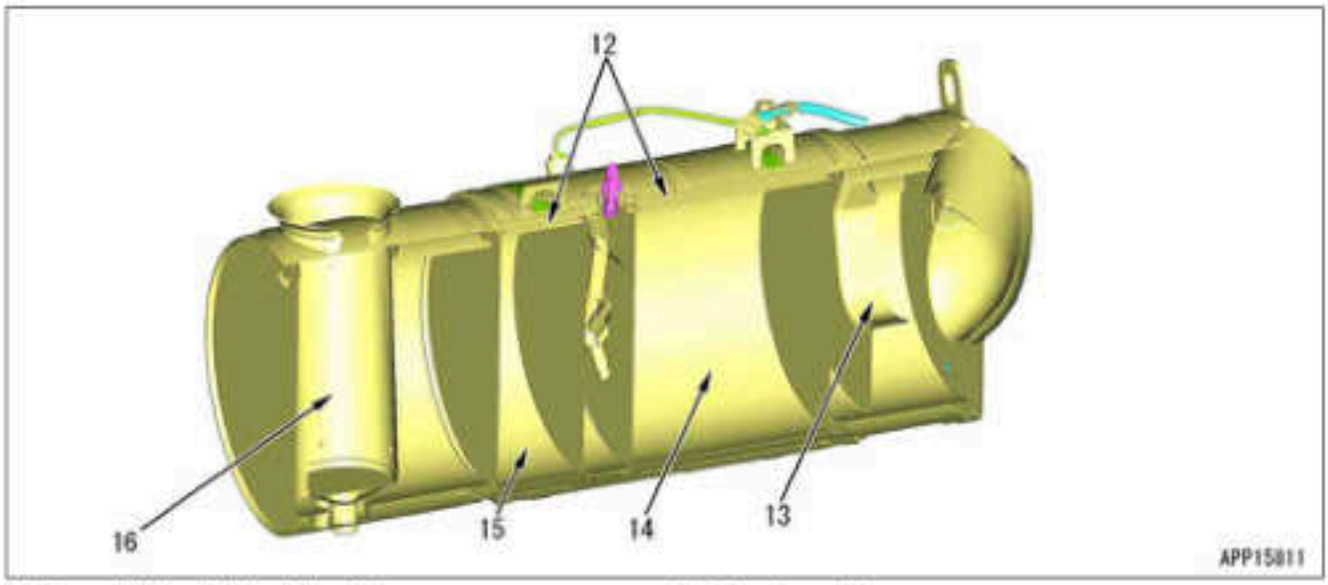


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11: Control valve
12: Pilot circuit accumulator
13: Solenoid valve
14: 2-stage relief solenoid valve
15: Attachment selector solenoid valve
16: Machine push-up solenoid valve
17: PPC lock solenoid valve
18: Rear pump oil pressure sensor
19: Rear pump PC-EPC valve
20: Front pump oil pressure sensor
21: Boom spool stroke sensor
22: Arm spool stroke sensor

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A: From AdBlue/DEF mixing tube
B: To exhaust pipe
1: SCR body
2: SCR temperature sensor
3: SCR outlet NOx sensor
4: SCR outlet temperature sensor
5: Temperature sensor controller
6: Ammonia sensor
7: Hanger plate
8: water baffle
9: Water drain port
10: Sensor table
11: Sensor table band
12: Catalyzer hold mat
13: Water dam
14: Downstream SCR catalyst and ammonia oxidation catalyst (integrated type)
15: Upstream SCR catalyst
16: Rectifier tube

- SCR assembly consists of rectifier tube (16) equalizing the distribution of flow speed by leading exhaust gas, upstream SCR catalyst (15), downstream SCR catalyst, ammonia oxidation catalyst (14), and water dam which prevents rain water from entering into downstream SCR catalyst and ammonia oxidation catalyst (14) while exhausting gas.
- Ammonia oxidation catalyst (a part of 14) oxidizes ammonia to water and nitrogen with ammonia oxidation catalyst (a part of 14) to prevent ammonia which is supplied to SCR assembly from being released out because SCR catalyst (a part of 14, 15)cannot completely consume it.
- Each 1 piece of SCR temperature sensor (2), SCR outlet temperature sensor (4), ammonia sensor (6), and SCR outlet NOx sensor (3) are installed. These sensors are usable for various troubleshooting, such as they are used to control the feedback of denitration efficiency or they monitor that SCR catalyst properly functions or not.
- Rectifying tube (16) equalizes the distribution of exhaust gas flow speed.
- SCR catalyst (15, a part of 14) uses the ceramic honeycomb.
- The catalyzer holding mat (12) is made of a specific fiber and protects the ceramic catalyst against vibrations by the engine and the machine body. It also protects the outer periphery of SCR assembly against a heat transfer of the ceramics during operation.
- Water dam (13) is located at the upstream side of the outlet and prevents rainwater from entering into downstream SCR catalyst unit and ammonia oxidation catalyst (14).
- Water baffle (8) is located at the downstream side of the outlet and prevents rainwater at outlet from splashing over the detection part of NOx sensor.

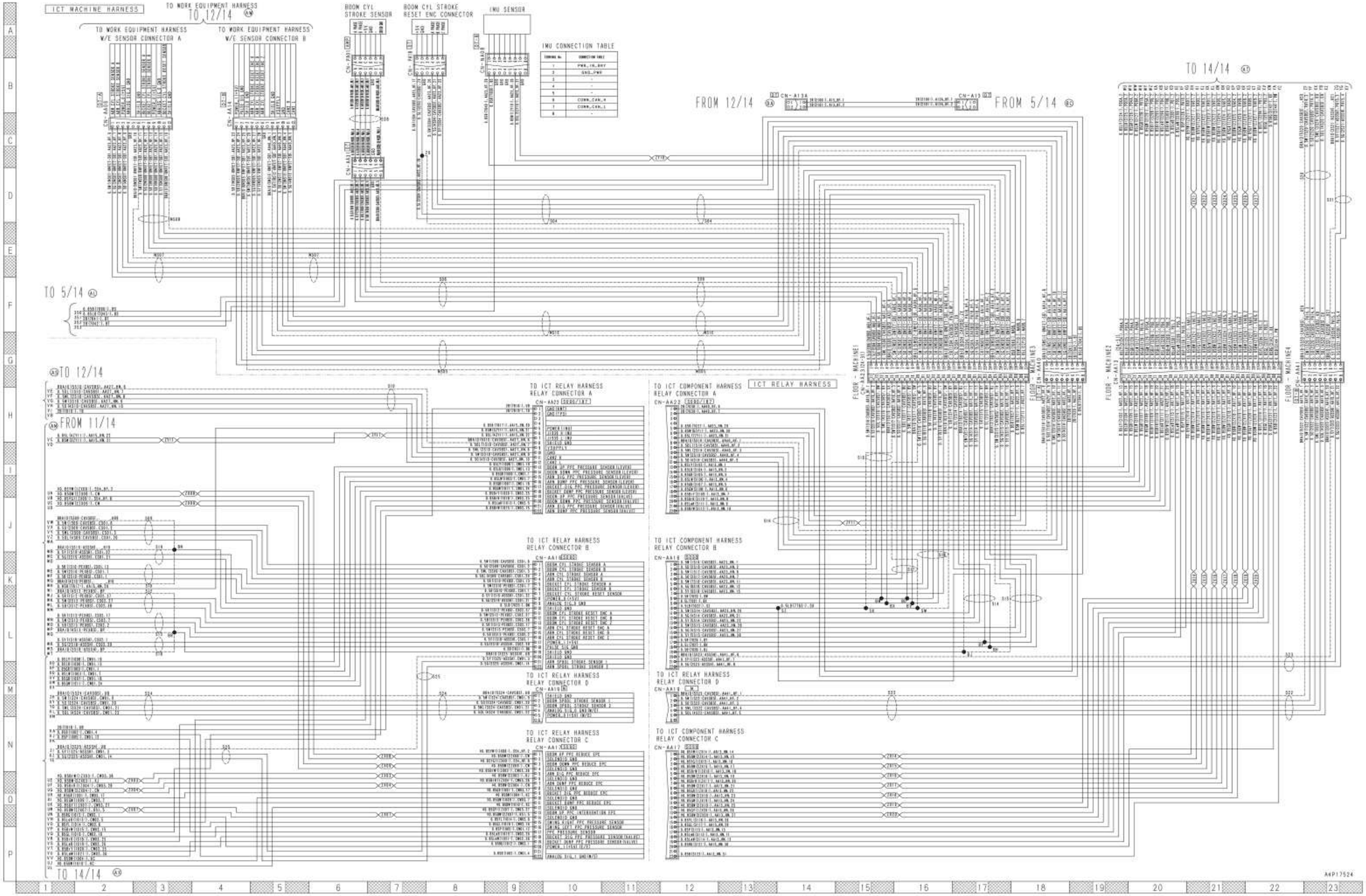
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ELECTRICAL CIRCUIT DIAGRAM (13/14)

PC360LCI-11

REMARK

This figure includes the equipment and device that are unavailable as optional items in some areas.



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