CEBM027502

Shop Manual

KOMATSU®

PC390LL-10

LOG LOADER
ROAD BUILDER

SERIAL NUMBERS **PC390LL-10 A50601 and up**

ENGINE **6D114E-5**

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No.	Cause	Procedure, measuring location, criteria and remarks
1	Defective wiring harness connector	1. Perform checkup referencing descriptions of wiring harness and connectors in "c: Electrical equipment" of "Checks before troubleshooting" in "General information on troubleshooting" and check it. 2. Turn starting switch to ON position.
		If this failure code disappears, wiring harness connector is defective. ★ If this failure code appears, perform the following.
2	Defective KDOC inlet temperature sensor	If failure code [CA3313], [CA3314], or [CA3315] appears, carry out troubleshooting for it first.
3	Soot accumulation in KCSF inside KDPF	1. Turn starting switch to ON position. 2. Monitor signal voltages from KDOC inlet temperature sensor and KDPF outlet temperature sensor, and record temperatures from respective temperature sensors in initial state and during manual stationary regeneration (see Related information). 3. Make sure that machine is in safe condition. 4. From service menu of machine monitor, display "Diagnostic Tests" screen and open "0 Regeneration for service" to execute" Manual Stationary Regeneration" (this operation is ended in about 40 minutes).
		If this failure code disappears after manual stationary regeneration, cause of failure is soot accumulation. ★ If another failure code appears during manual stationary regeneration, perform troubleshooting for it first. ★ If failure code [CA2639] appears after manual stationary regeneration, perform troubleshooting for [CA2639] first.
4	Defective engine controller	1. Turn starting switch to ON position. When this failure code appears and no failure is found by above checks, engine controller is defective. (Since this is an internal defect, troubleshooting cannot be performed.)

★ Turn starting switch to ON position and check that this failure code and failure code [CA2639] are not displayed.

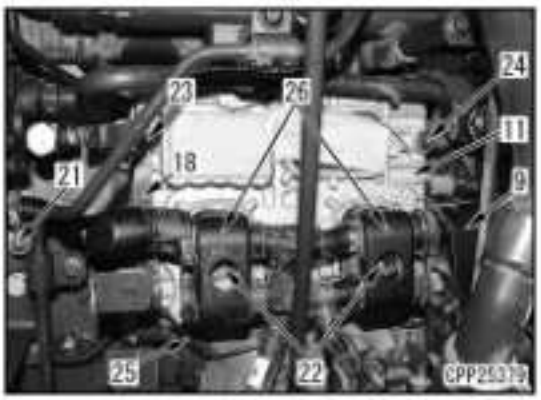
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14. Disconnect clamp (21) of wiring harness (9). [*1]

15. Disconnect connector ECM (26) of wiring harness (9) from engine controller (11). [*1]
    - ★ Thoroughly clean the surrounding area to remove mud and other contamination to prevent them from entering the connector hole.
    - ★ The connectors are locked with hexagonal socket head bolts (22) (4 mm).

16. Remove two nuts (23) and bracket (18). [*4]

17. Remove four mounting bolts (24) to remove engine controller (11). [*5]
    - ★ Ground cable (25) is also clamped.



Installation

Perform Installation in the Reverse Order to Removal.

Installation of wiring harness (9)

[*1]

1. Install connector ECM (26) of wiring harness (9) to engine controller (11).
    - ★ Push hole (A) on the reverse of wiring harness (9) into the stud of the mounting bolt of engine controller (11).

2. Tighten wiring harness (9) with bolt (10).

    Mounting bolt (10): 24 ± 4 Nm {18 ± 3 lbf ft}

3. Tighten connector ECM (26) with bolt (22).

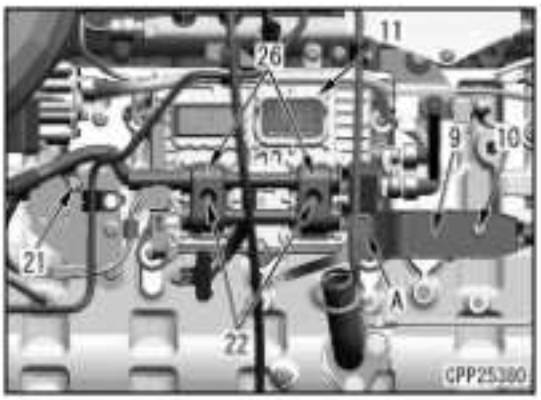
    Hexagonal socket head bolt (4 mm) (22):
    3 ± 1 Nm {27 ± 9 lbf in}

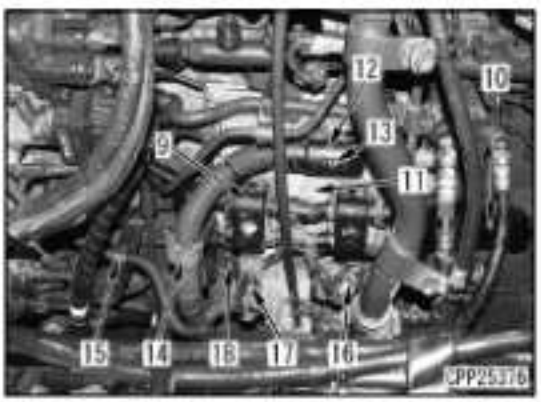
4. Install wiring harness (9) with clamp (21).

    Mounting bolt (21): 24 ± 4 Nm {18 ± 3 lbf ft}

[*2]

Hexagonal socket head bolt (4 mm) (13):
3 ± 1 Nm {27 ± 9 lbf in}

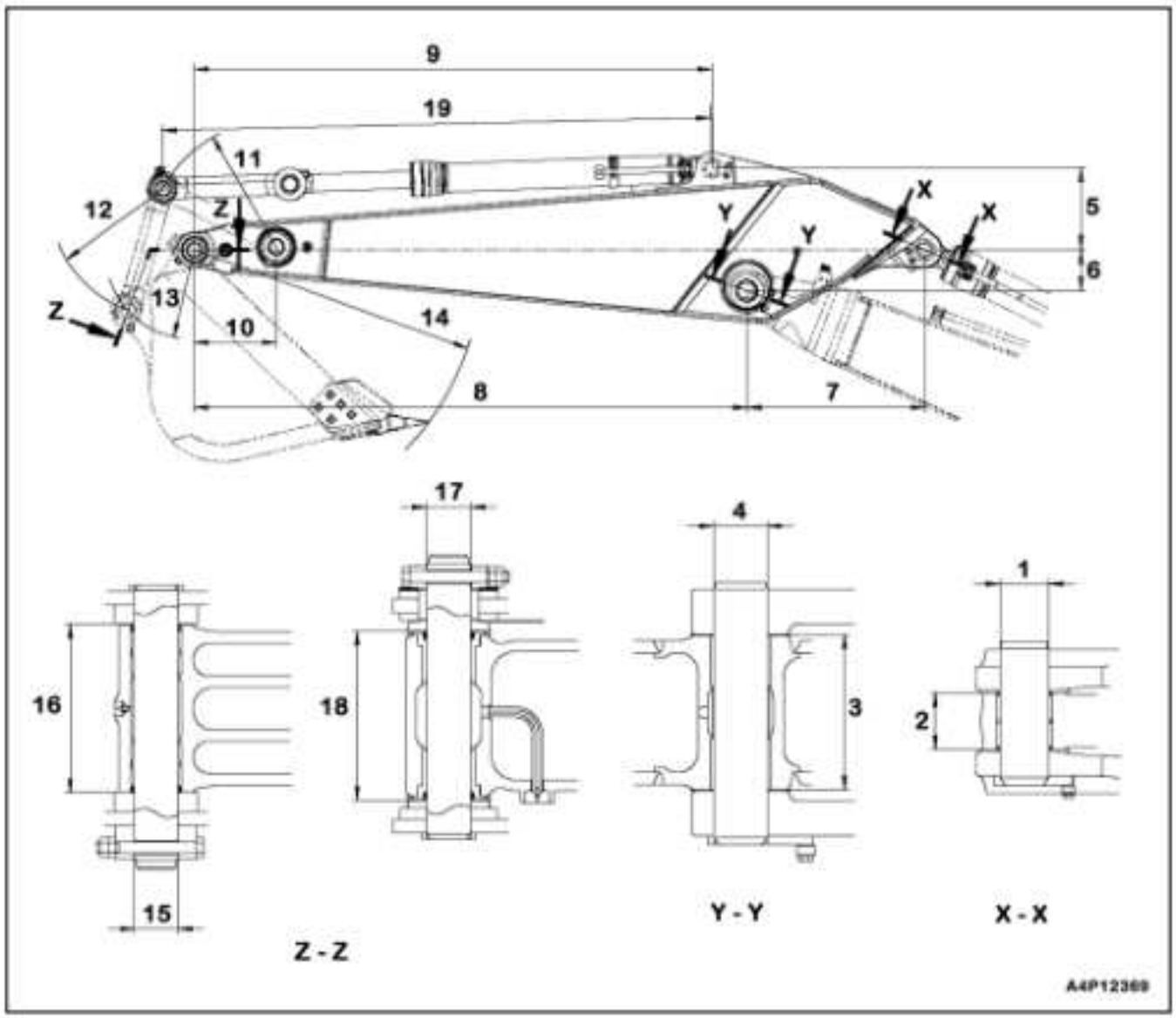




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Dimensions of Arm

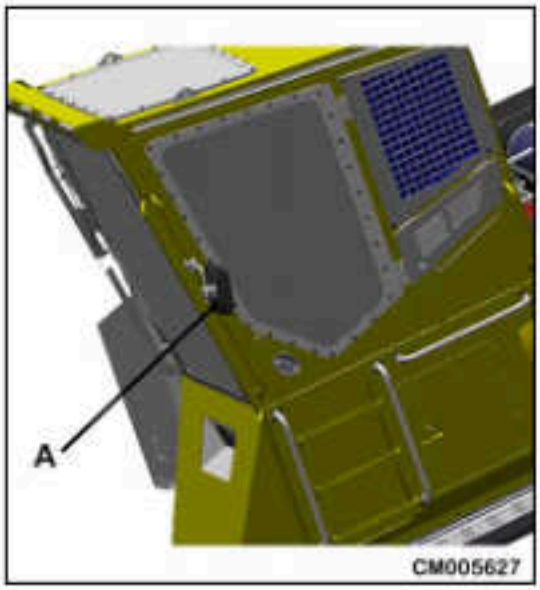
Road Builder

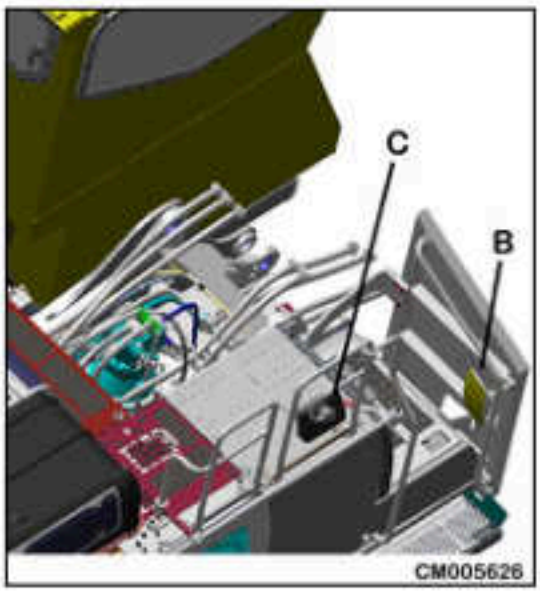


No.	PC390LL-10			
	Measurement point	Standard dimension	Tolerance	
			Shaft	Hole
1	—	100 mm (3.937 in)	-0.036 mm -0.071 mm (-0.001 in) (-0.003 in)	+0.100 mm 0 mm (+0.004 in) (0 in)
2	Arm side	119.3 mm (4.697 in)	+1.5 mm 0 mm (+0.059 in) (0 in)	
	Cylinder head side	116 mm (4.567 in)	±1.2 mm (±0.047 in)	

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MIRROR ADJUSTMENT

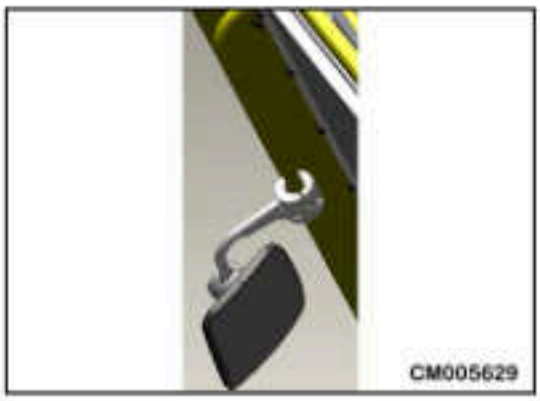




Mirror (A)

Adjust the mirror mount so that you can see people at the rear left of the machine.

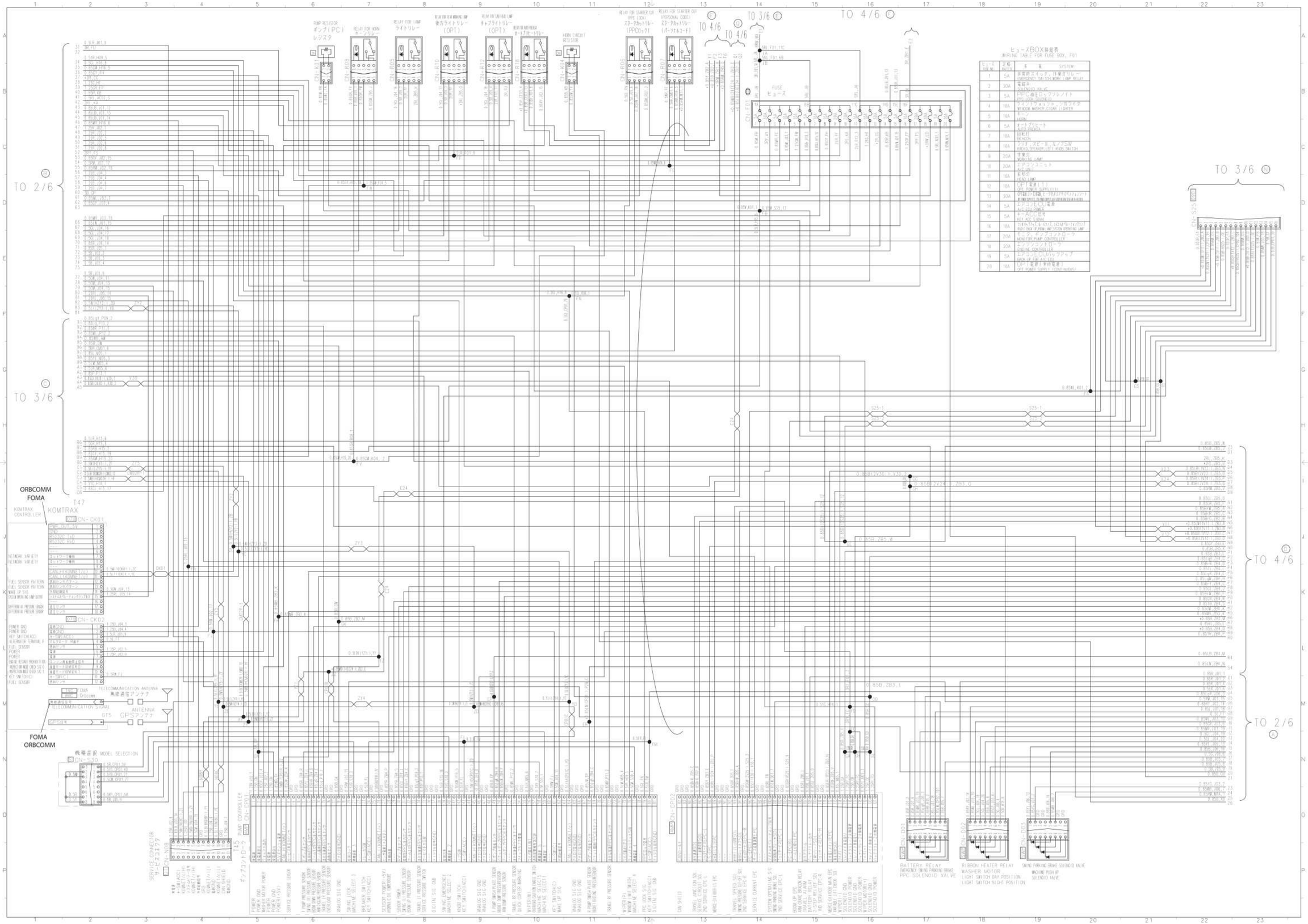
- Adjust the mirror so that the side of the machine is reflected on the mirror as shown in the drawing on the right.



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Electrical Circuit Diagram (1/6)

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



ヒューズBOX接続表
WIRING TABLE FOR FUSE BOX, F01

ヒューズ FUSE No.	定格 RATED	名　称　SYSTEM
1	5A	非常時スイッチ、作業灯リレー EMERGENCY SWITCH, WORK LAMP RELAY
2	30A	電磁弁 SOLENOID VALVE
3	5A	PPC用 電磁ロックソレノイド PPC LOCK SOLENOID
4	10A	ウインドウォッシャー、シガライタ WINDOW WASHER, CIGAR LIGHTER
5	10A	ホーン HORN
6	5A	オートパワーオフ AUTO POWER OFF
7	10A	前照灯 HEADLIGHT
8	10A	ウォッシャモータ、ライトSW WASHER MOTOR, LIGHT SWITCH
9	20A	作業灯 WORKING LAMP
10	20A	エアコンユニット AIR CONDITIONER UNIT
11	10A	室内灯 INSIDE LAMP
12	10A	OPT（電源1） OPT POWER SUPPLY(1)
13	30A	予備 SPARE
14	5A	エアコン(ACC電源) AIR CONDITIONER (ACC POWER)
15	5A	オートACC出力 AUTO ACC OUTPUT
16	10A	ラジオ(ラジオ&ライター)、ライター(ライター) RADIO (RADIO & CIGAR LIGHTER), CIGAR LIGHTER
17	20A	モニタ、ポンプコントローラ MONITOR, PUMP CONTROLLER
18	30A	エンジンコントローラ ENGINE CONTROLLER
19	5A	エアコンまたはOPTバックアップ BACK UP FOR A/C OR OPT
20	10A	OPT（電源2（常時電源）） OPT POWER SUPPLY(2)(FOR UNDERCUT)

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