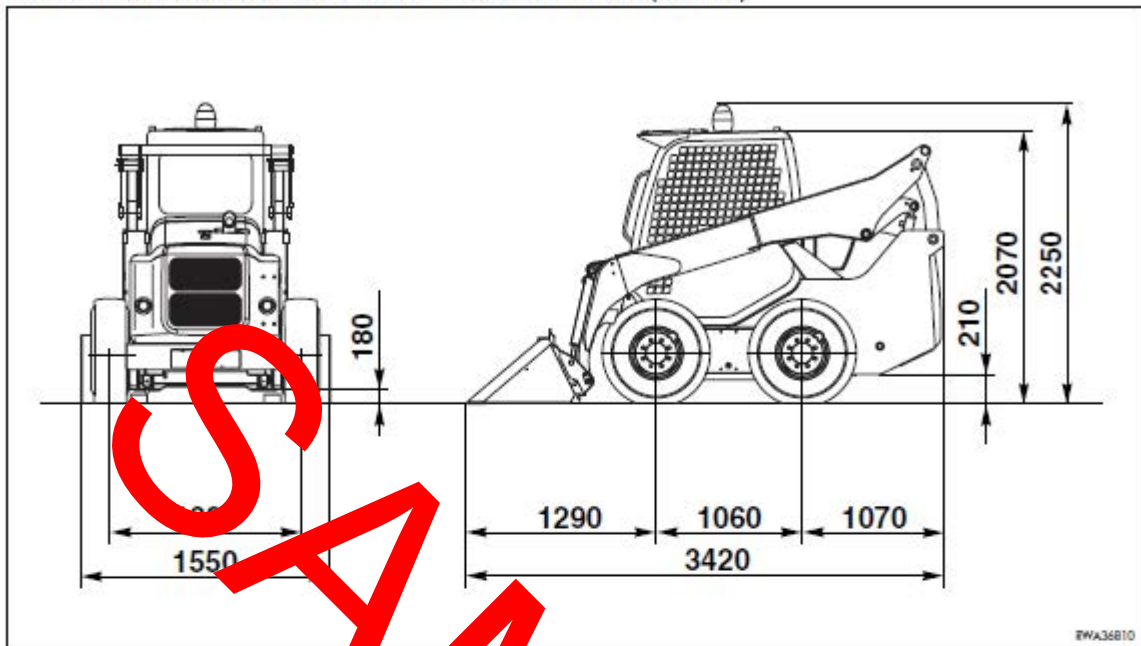


KOMATSU

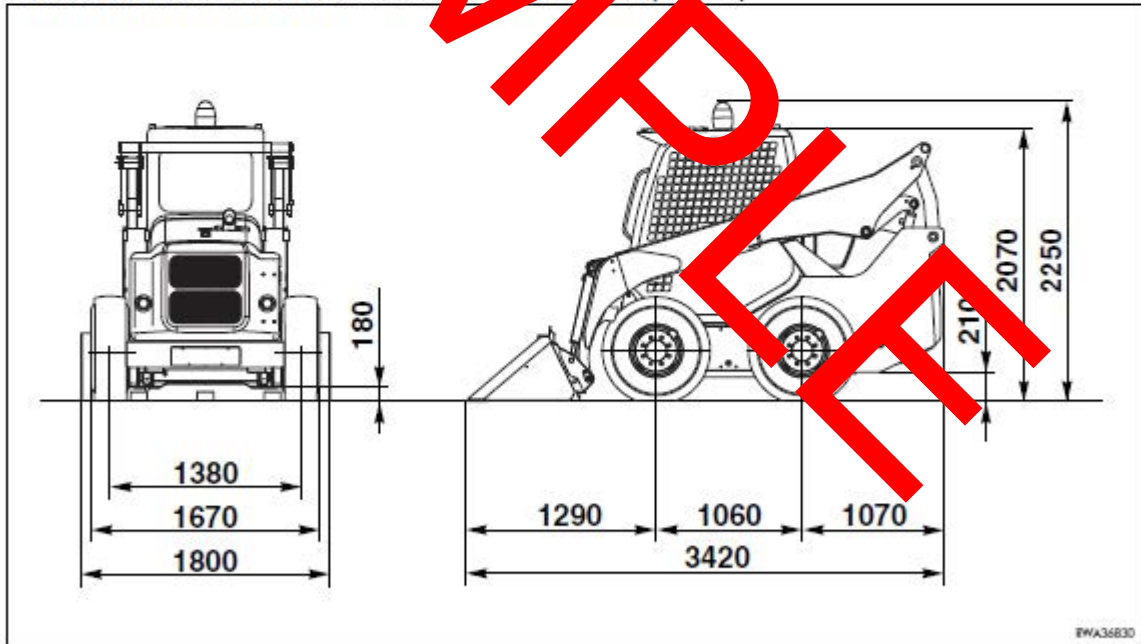
A photograph of two large yellow Komatsu construction vehicles at a quarry. On the left is a Komatsu 730E dump truck, and on the right is a Komatsu PC4000 excavator. The background shows a rocky quarry under a cloudy sky. The Komatsu logo and model numbers are visible on the vehicles.

MANUAL

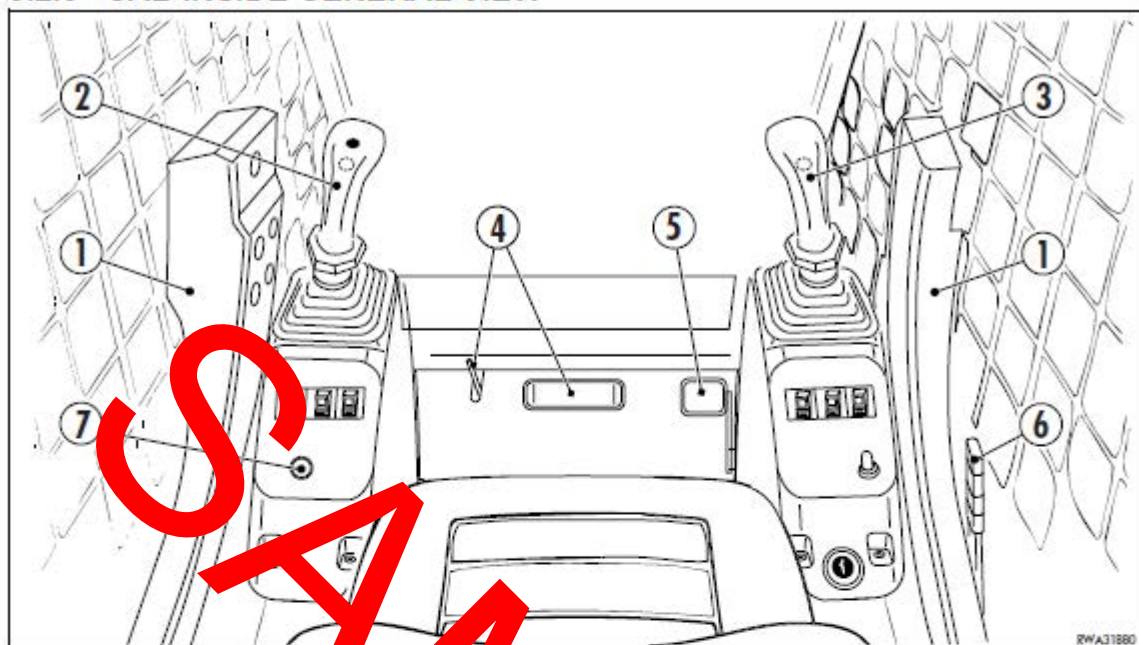
OVERALL DIMENSIONS WITH BUCKET L 1550 AND TYRES (10x16.5)



OVERALL DIMENSIONS WITH BUCKET L 1800 AND TYRES (10x16.5)



3.2.3 CAB INSIDE GENERAL VIEW

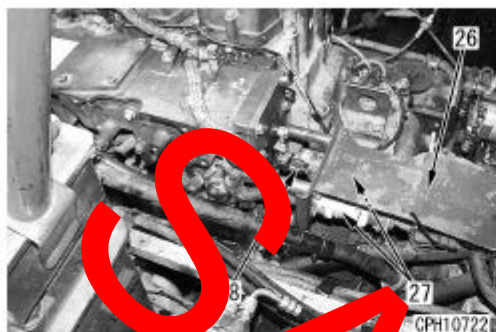


- 1 - Safety bars
- 2 - Left servo control lever
 - (ISO PATTERN) - travel and steering
 - (OPTION PATTERN) - left wheel travel and loader arm control
- 3 - Right servo control lever
 - (ISO PATTERN) - loader arm and bucket control
 - (OPTION PATTERN) - right wheel travel and bucket control
- 4 - Auxiliary hydraulic kit control pedal (if installed)
- 5 - Foot accelerator
- 6 - Hand accelerator
- 7 - Parking brake
- 8 - Equipment control locking lever (if installed)
- 9 - Dashboard



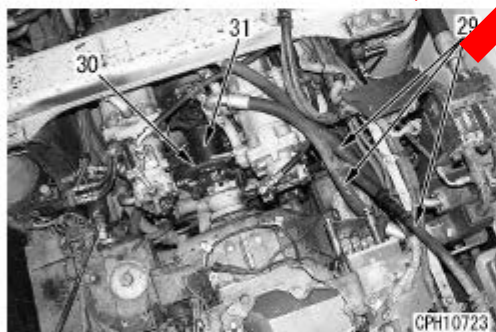
15. Engine centralized connector and heater relay connector

Remove cover (26) and disconnect engine centralized connector (27) (CN-EG4, EG5) and heater relay connector (28).



16. Hydraulic hoses and output shaft between engine and transmission

- 1) Disconnect hydraulic hoses (29) (3 pieces) from the left front side of the vehicle body.
- 2) Remove guard bracket (30) from the output shaft cover and disconnect drive shaft (31) between the engine and transmission from the engine.



17. Engine mounting bolts

Remove engine mounting bolts (32) (4 pieces).

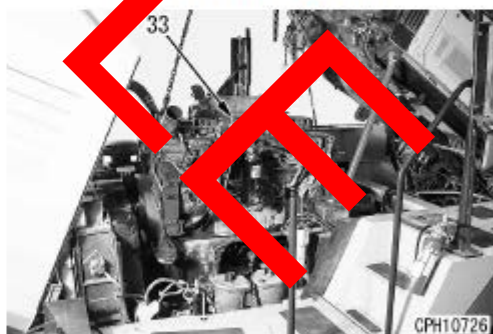
※ 3



18. Engine assembly

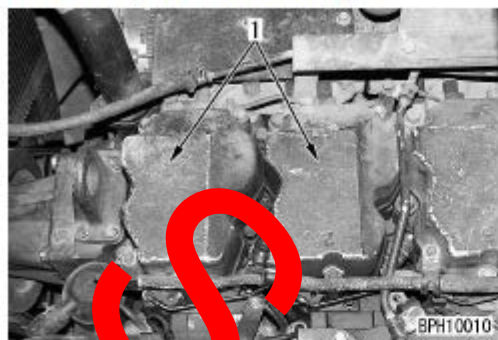
Lift off the engine assembly (33).

 Engine assembly: 1,700 kg



ADJUSTING VALVE CLEARANCE

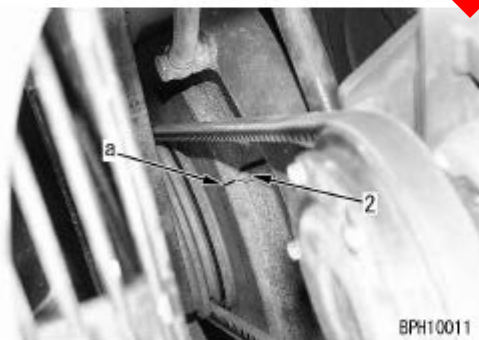
1. Open the engine hood.
2. Remove cylinder head cover (1).



3. Rotate the crankshaft in the normal direction to set No. 1 cylinder at compression top dead center, and align pointer (2) with the [1.6] mark on the damper.

★ Crank the crankshaft with the hexagonal portion at the tip of the water pump drive shaft.


★ At compression top dead center, the rocker arm can be moved by hand by the amount of the valve clearance. If the rocker arm does not move, the crankshaft is not at compression dead center, so rotate it one more turn.



4. To adjust the valve clearance, insert feeler gauge D into clearance b between rocker arm (3) and crosshead (4), and adjust the valve clearance with adjustment screw (5).

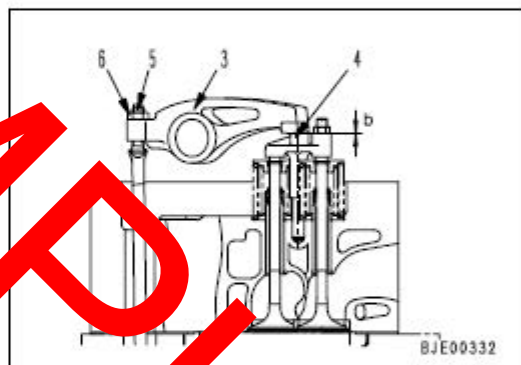
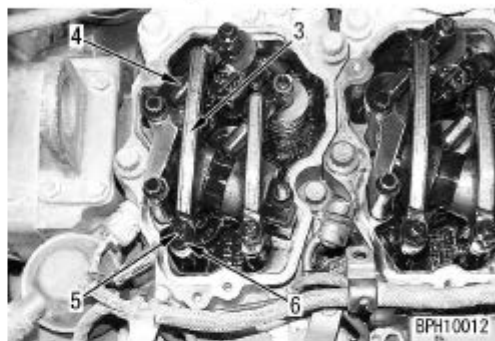
★ Insert the feeler gauge and turn the adjustment screw until the clearance is a sliding fit.

5. Tighten locknut (6) to hold adjustment screw (5) in position.

 Locknut :

53.0 - 64.7 Nm {5.4 - 6.6 kgm}

★ After tightening the locknut, check the valve clearance again.



6. Turn the crankshaft 120° each time in the normal direction, and repeat the procedure in Steps 3 to 5 to adjust the valves of each cylinder according to the firing order.

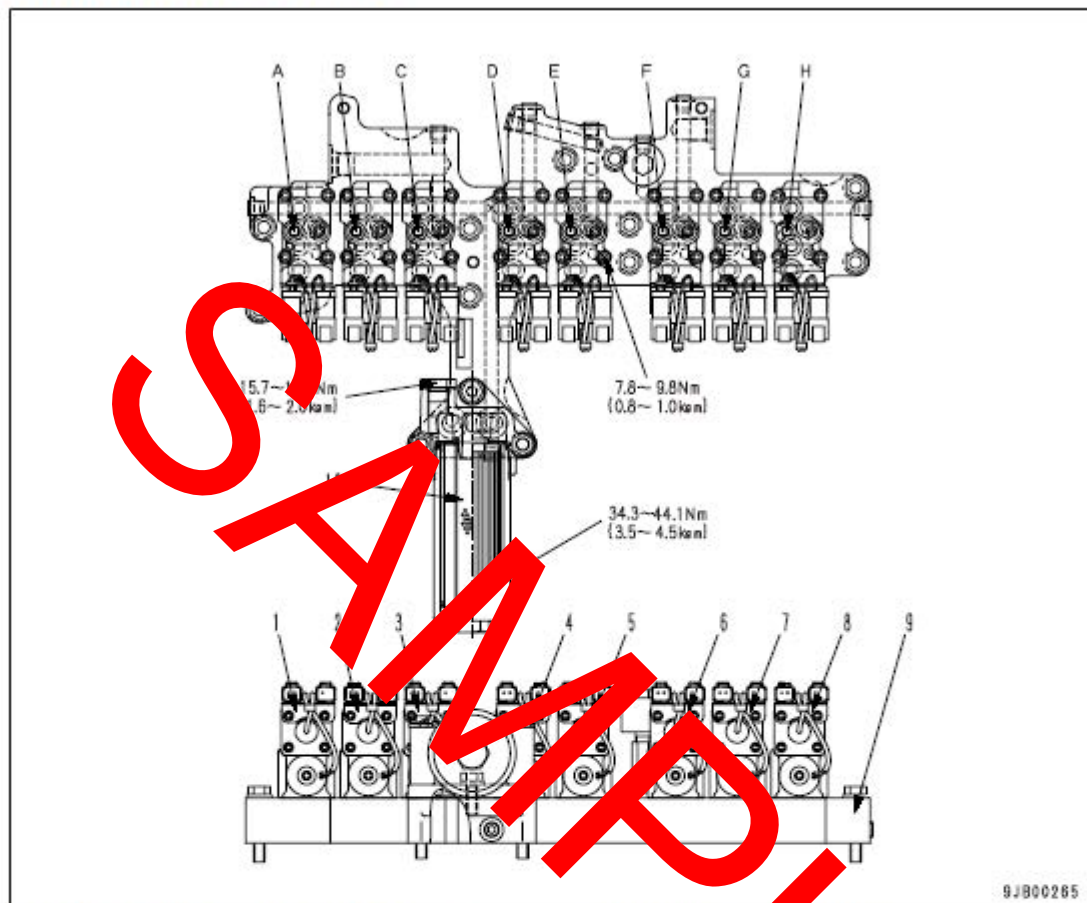
★ Firing order : 1-5-3-4-2

7. After completing the measurement, set to the original condition.

 Cylinder head cover mounting bolt:

29.4 - 34.3 Nm {3.0 - 3.5 kgm}

TRANSMISSION VALVE



9J800265

- A. Lock-up clutch oil pressure detection port
 B. 2nd clutch oil pressure detection port
 C. 3rd clutch oil pressure detection port
 D. R clutch oil pressure detection port
 E. FL clutch oil pressure detection port
 F. 1st clutch oil pressure detection port
 G. FH clutch oil pressure detection port
 H. Differential lock clutch oil pressure detection port

1. ECMV (for lock-up clutch)
 2. ECMV (for 2nd clutch)
 3. ECMV (for 3rd clutch)
 4. ECMV (for R clutch)
 5. ECMV (for FL clutch)
 6. ECMV (for 1st clutch)
 7. ECMV (for FH clutch)
 8. ECMV (for differential lock clutch)
 9. Seat
 10. Last chance filter

ECMV clutch operation table

ECMV Speed range	FL	FH	R	2nd	3rd
F1				○	
F2					
F3	○			○	
F4		○		○	
F5	○				○
F6		○			○
R1			○	○	
R2			○	○	
N					

Measuring compression pressure

Special tools required

Symbol	Part No.	Part Name	Qty	Remarks
D	1	795-502-1590	Compression gauge	0 ~ 0.9 MPa (0 ~ 70 kg/cm ²) Kit part No. 795-502-1205
	2	795-471-1410	Adapter	1




When measuring the compression pressure, be careful not to touch the exhaust manifold or muffler and burn yourself, or to get caught in any rotating parts.

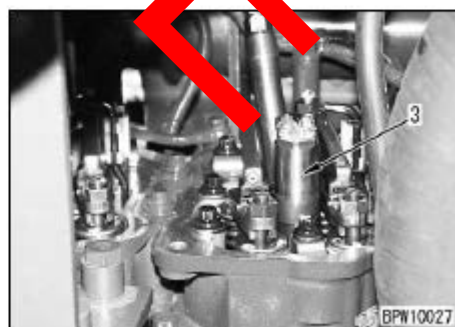
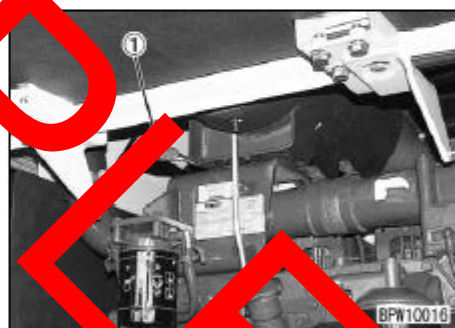
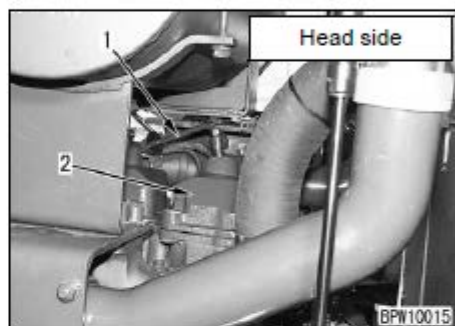
★ Measure the compression pressure with the engine warmed up (engine oil temperature: 40 ~ 60 °C).

1. Open left and right side covers.
2. Disconnect 6 fuel high-pressure hoses (1). Remove the tube clamps also.

3. Remove cylinder head cover (2).

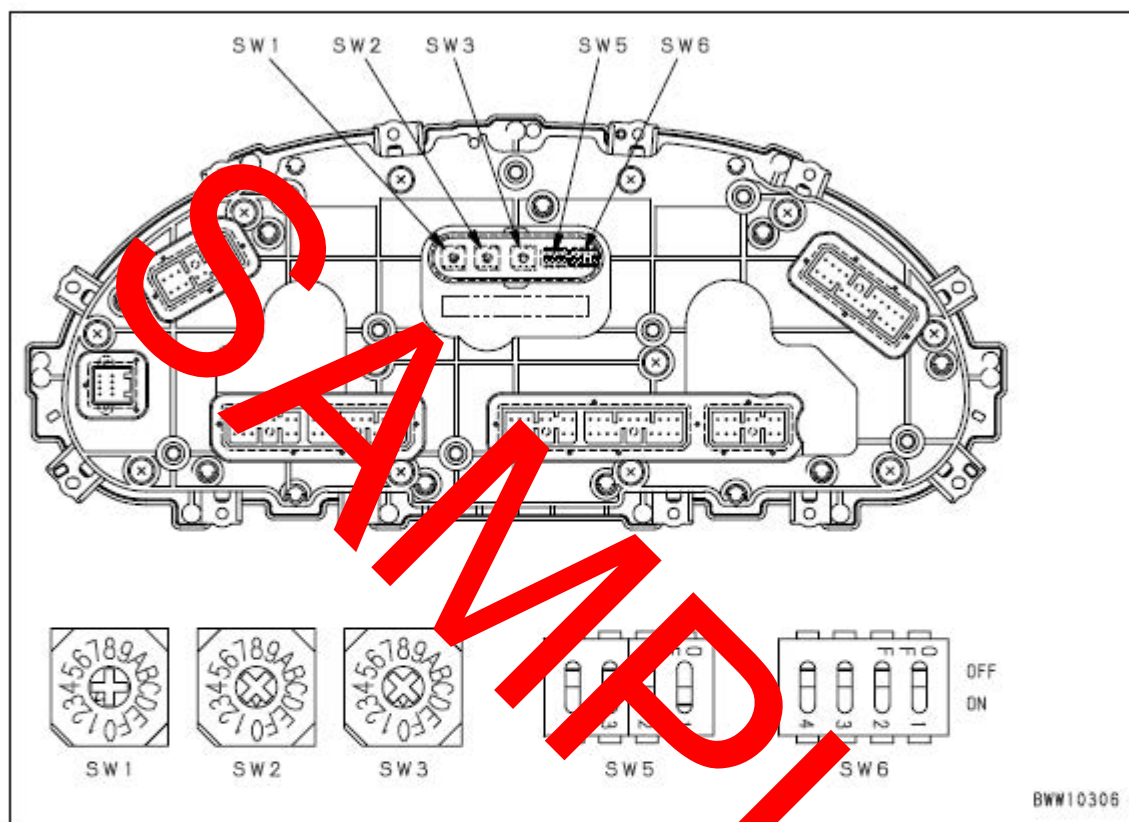
 **Head cover mounting bolt:**
9.8 ± 1 Nm (1.0 ± 0.1 kgm)

- ★ When removing the No. 1 and No. 2 head covers of the cylinder, use bar ① to raise the muffler mounting bracket, then remove tube (1) from head cover (2).
 - ★ When removing the No. 5 and No. 6 head covers of the cylinder, remove the air cleaner assembly (including the bracket) first.
4. Remove injector wiring harness and fuel injector (3).



Adjusting machine monitor

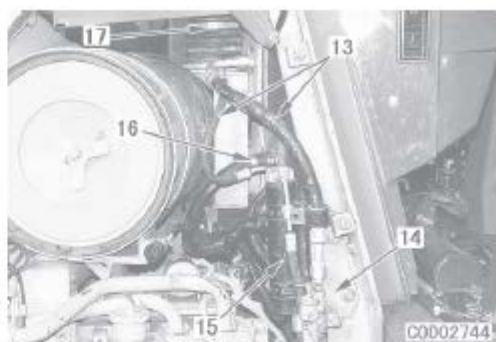
Machine monitor rotary switches (SW1, SW2, SW3) and dipswitches (SW5, SW6)



BW10306

- In the following cases, check the settings of the rotary switches and dipswitches at the rear face of the machine monitor, and change the settings as necessary.
 - When the machine monitor has been removed and installed again.
 - When the tire size has been changed (travel speed compensation setting).
 - When the parts of the machine monitor have been replaced with new parts (service meter, odometer).
 - ★ When carrying out these settings, it is necessary to use the special operation of the character display and mode switch. For details, see STRUCTURE AND FUNCTION, SPECIAL FUNCTIONS OF MACHINE MONITOR.
 - The status of each switch can be checked with the special function of the machine monitor (monitoring function).
- ★ All setting operations are carried out with the starting switch OFF and the monitor panel removed.
- ★ Always set each switch as instructed.
- ★ Be careful not to touch anything inside the grommet except for the switch.
- ★ When turning the rotary switch, use a precision cross-head screwdriver and turn slowly.
- ★ The protruding triangular part of the rotary switch is the setting arrow.
- ★ When changing the dipswitch, use a precision flat-headed screwdriver and turn slowly.

11. Disconnect air conditioner hoses (13). ※ 1
★ Using tool X, collect new freon gas (R134a).
12. Remove bracket (14), and move receiver tank (15) towards outside.
13. Disconnect 2 heater hoses (16).
★ Close the heater hose valve at the engine end.
★ Fit blind plugs after disconnecting.
14. Loosen bellows hose clamp (17), and disconnect bellows hose from engine hood.



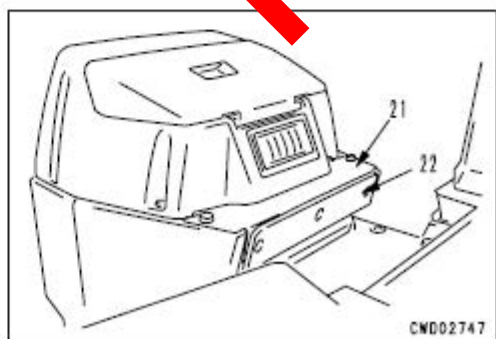
15. Remove 2 covers (18).



16. Open cover (19), remove cleaner cover (20) and filter, then remove cover (19).



17. Remove covers (21) and (22), and install eyebolts.



TESTING AND ADJUSTING ALTERNATOR BELT TENSION

PC600, 600LC-6 Serial No.: 11001 and up

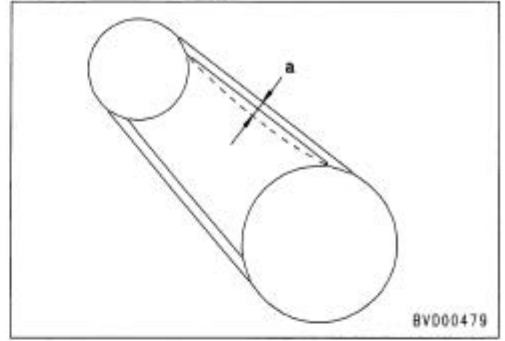
1. Inspecting

Measure deflection *a* when the belt is pressed with a finger at a point midway between the alternator pulley and drive pulley.

★ Pushing force:

Approx. 98 Nm (approx. 10 kg)

★ Deflection (one belt): 13 – 16 mm



BV000479

2. Adjusting

★ If the deflection is not within the specified range, adjust as follows.

1) Loosen 2 mounting bolts of alternator (1) and 1 lock bolt of the bar.

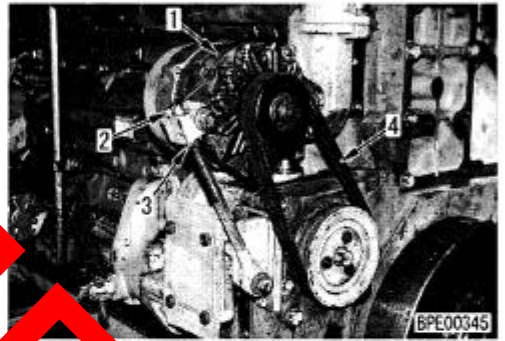
2) Loosen locknut (2), move alternator with adjustment nut (3), and adjust the tension of belt (4).

★ Deflection (one belt): 13 – 16 mm

3) Tighten locknut (2).

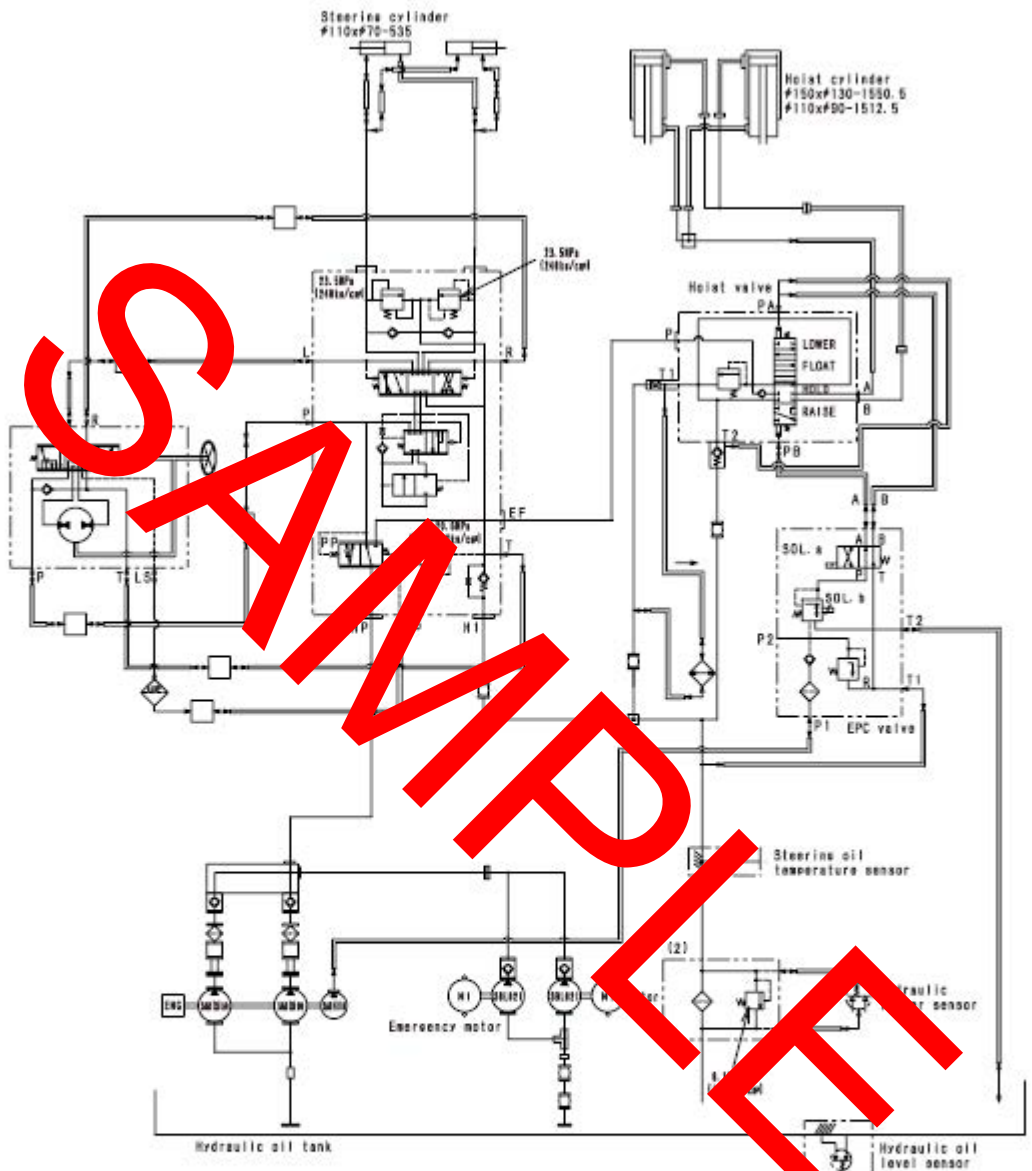
4) Tighten 2 mounting bolts of alternator (1) and 1 lock bolt of the bar.

★ After adjusting, check the belt tension again.



BPE00345

STEERING AND HOIST HYDRAULIC CIRCUIT DIAGRAM



CONNECTOR ARRANGEMENT DIAGRAM

PC600, 600LC-6 Serial No.: 10001 - 11000

