
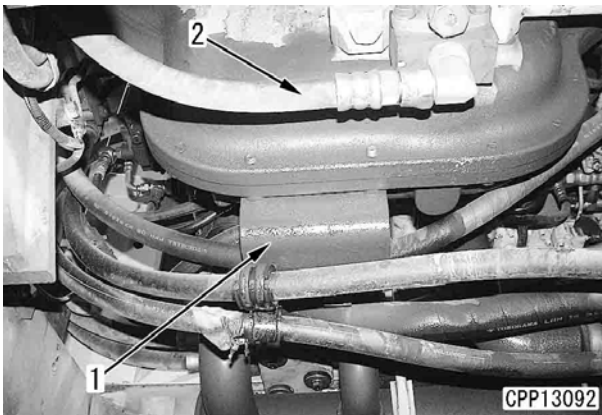


Removal and installation of PTO assembly

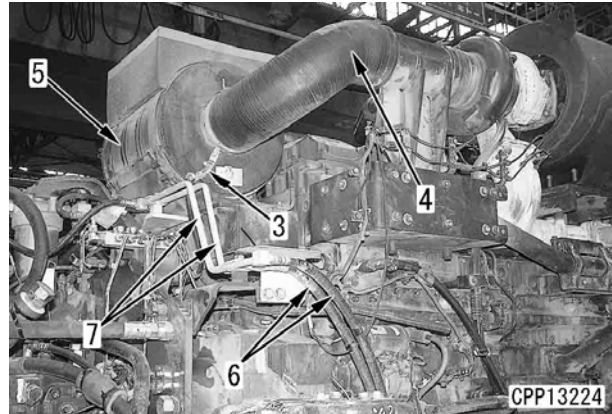
Removal

1. Remove the counterweight assembly, referring to "Removal and installation of counterweight assembly".
2. Remove the engine hood, side cover, frame, partitioning cover between engine and pump, under guard, etc., referring to "Removal and installation of engine, PTO and hydraulic pump assembly".
3. Remove respective pumps, referring to "Removal and installation of hydraulic pump assembly".
4. Disconnect bracket (1) from PTO.
5. Drain oil in the PTO case (lubricating oil).
 Amount of lubricating oil: **13.5 ℓ**
6. Disconnect hose (2) between flywheel housing and PTO.

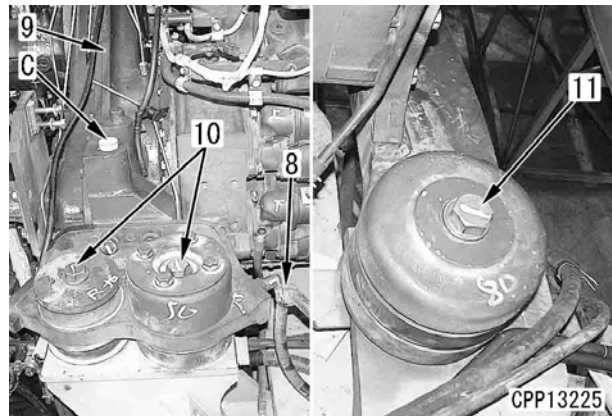


★ Except for 55°C specification (7. – 12.)

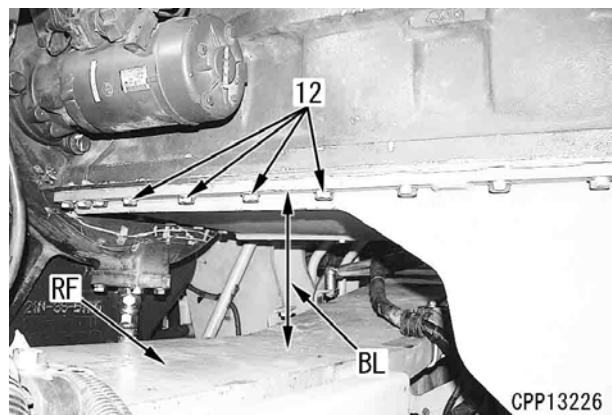
7. Disconnect dust indicator hose (3).
8. Disconnect air hose (4). [^{*}1]
9. Remove air cleaner (5). [^{*}2]
10. Remove air cleaner bracket.
11. Disconnect hose (6).
12. Remove tube (7).



13. Disconnect clamp (8).
14. Install eyebolt in the position indicated as (C).
15. Remove mount bolts (10) and (11). [^{*}3]
16. Lift PTO assembly (9) temporarily.



17. Remove oil pan mounting bolts (12) situated in the top of the rear frame (RF).
18. Place the block between the rear frame (RF) and oil pan (BL).

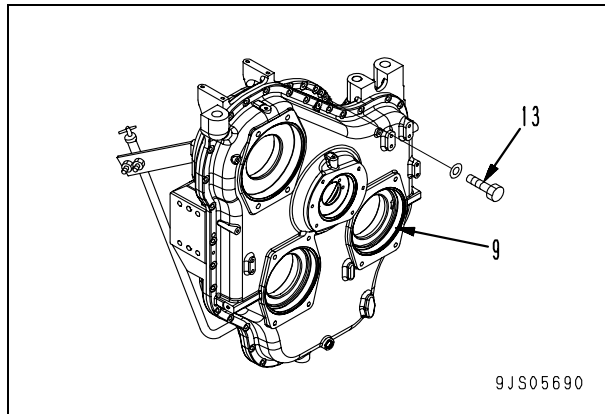


19. Float PTO assembly (9) (described in the above) and support PTO assembly (9) with the block.

★ Loosen the lifting tool to confirm whether or not the block can support PTO assembly (9) (described in the above).

20. Remove 30 mounting bolts (13) and then lift and remove PTO assembly (9). [*4]

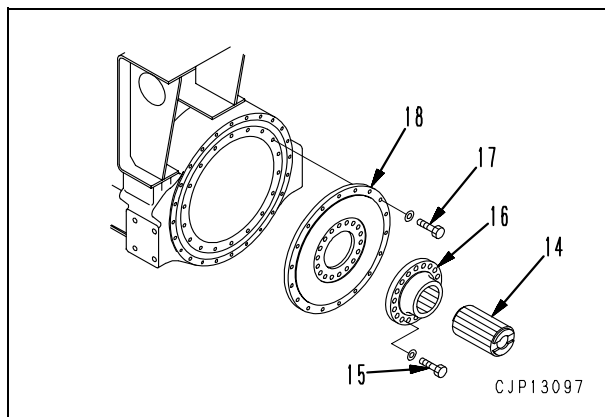
 PTO assembly: **505 kg**



21. Remove shaft (14).

22. Remove bolt (15) and then remove hub (16). [*5]


23. Remove bolt (17) and then remove plate (18). [*6]




Installation

- Carry out the installation in the reverse order of removal.


[*1]

 Air hose clamp:
 $8.8 \pm 0.5 \text{ Nm}$ { $0.9 \pm 0.05 \text{ kgm}$ }


[*2]

 Air cleaner band:
 $12.8 - 17.7 \text{ Nm}$ { $1.3 - 1.8 \text{ kgm}$ }


[*3]

 Engine mount bolt:
 $824 - 1030 \text{ Nm}$ { $84 - 105 \text{ kgm}$ }
Target: 927 Nm { 94.5 kgm }


[*4]

 Mounting bolt: **$98 - 123 \text{ Nm}$ { $10 - 12.5 \text{ kgm}$ }**

[*5]

 Mounting bolt: **$245 - 309 \text{ Nm}$ { $25 - 31.5 \text{ kgm}$ }**

[*6]

 Mounting bolt: **$98 - 123 \text{ Nm}$ { $10 - 12.5 \text{ kgm}$ }**

- Oil filling (PTO case)**

Fill oil up to the specified level from the oil filler port.

0°C or above : **TO30**

10°C or below : **TO10**



PTO case: **Approx. 13.5 ℓ**