TEN00117-08

# Operation & Maintenance Manual

HYDRAULIC EXCAVATOR

**PC300-7E0** **PC300LC-7E0**
**PC350-7E0** **PC350LC-7E0**

SERIAL NUMBERS PC300-50001 and up
PC350-30001

ecot3

**WARNING**

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

**NOTICE**

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

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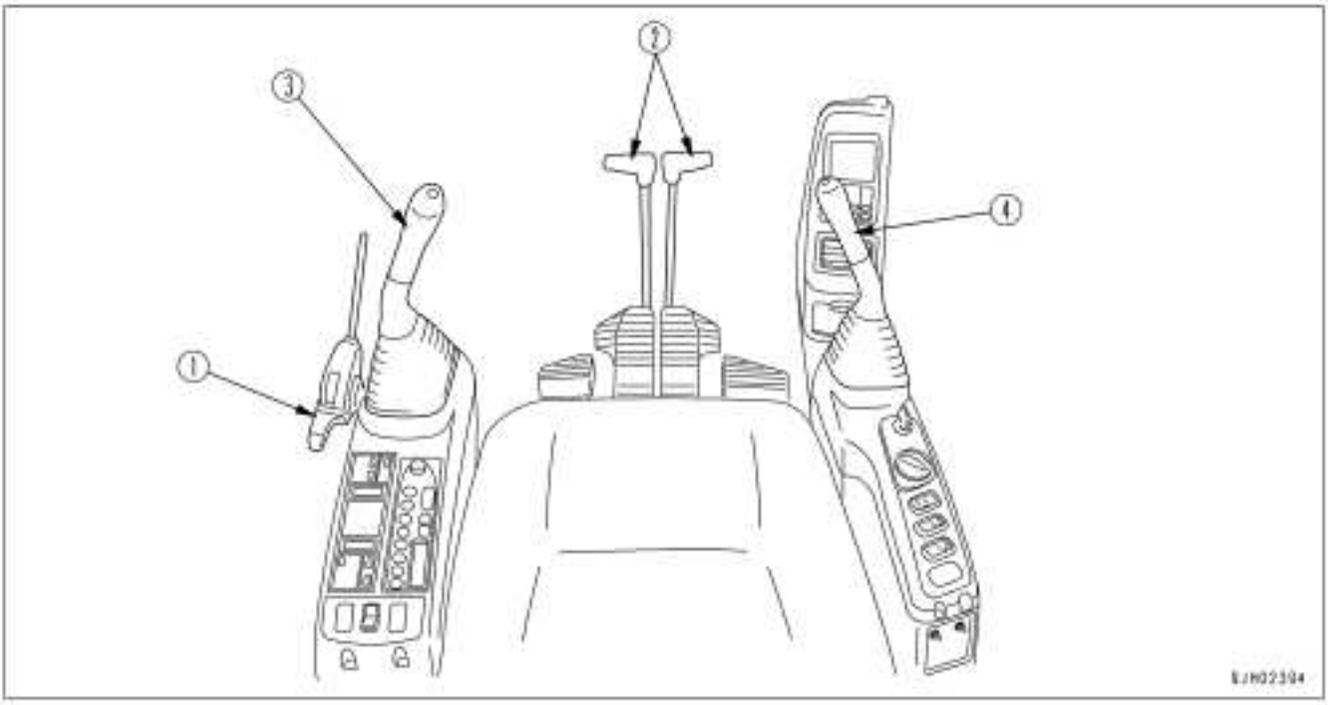
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## CONTROL LEVERS AND PEDALS




(1) Lock lever
(2) Travel levers
(with pedal and auto-deceleration system)
(3) Left work equipment control lever
(with auto-deceleration system)
(4) Right work equipment control lever
(with auto-deceleration system)

### Lock Lever

**WARNING**

- **When leaving the operator's compartment, set the lock lever securely to the LOCK position. If the lock lever is not at the LOCK position and the control levers or control pedals are touched by mistake, it may lead to serious personal injury.**
- **Check that the condition of the lever is as shown in the diagram.**
- **When pulling the lock lever up, be careful not to touch the work equipment control lever.**
  **When pushing the lock lever down, be careful not to touch the work equipment control lever.**

This lever (1) is a device to lock the work equipment, swing, travel, and attachment (if equipped) control levers.

(L) LOCK position: Even when levers or attachment control pedal (if equipped) are operated, machine does not move
(F) FREE position: Machine moves according to operation of levers or attachment control panel (if equipped)




**REMARK**
This lock lever is of hydraulic lock type. Accordingly, when it is in the lock position (L), the control levers or control pedals move but the machine does not move.



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# TIGHTENING TORQUE SPECIFICATIONS

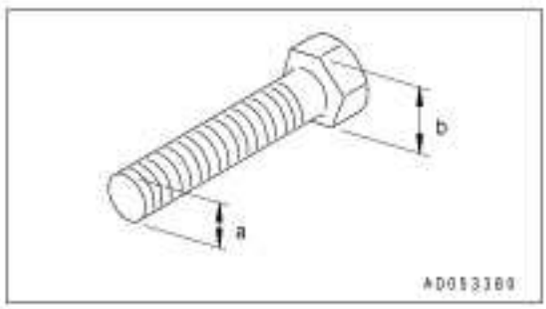
## TIGHTENING TORQUE LIST

**⚠ CAUTION**

**If nuts, bolts, or other parts are not tightened to the specified torque, it will cause looseness or damage to the tightened parts, and this will cause failure of the machine or problems with operation.**
**Always pay careful attention when tightening parts.**

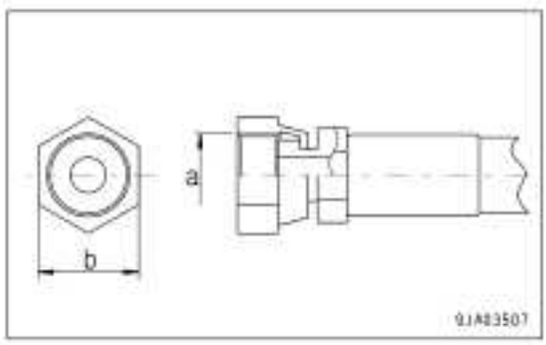
Unless otherwise specified, tighten the metric nuts and bolts to the torque shown in the table below.
If it is necessary to replace any nut or bolt, always use a Komatsu genuine part of the same size as the part that was replaced.

| Thread diameter of bolt (a)(mm) | Width across flats (b)(mm) | Tightening torque | | | | | |
|---|---|---|---|---|---|---|---|
| | | Target value | | | Service limit | | |
| | | Nm | kgm | lbft | Nm | kgm | lbft |
| 6 | 10 | 13.2 | 1.35 | 9.8 | 11.8-14.7 | 1.2-1.5 | 8.7-10.8 |
| 8 | 13 | 31 | 3.2 | 23.1 | 27-34 | 2.8-3.5 | 20.3-25.3 |
| 10 | 17 | 66 | 6.7 | 48.5 | 59-74 | 6.0-7.5 | 43.4-54.2 |
| 12 | 19 | 113 | 11.5 | 83.2 | 98-123 | 10.0-12.5 | 72.3-90.4 |
| 14 | 22 | 172 | 17.5 | 126.6 | 153-190 | 15.5-19.5 | 112.1-141 |
| 16 | 24 | 260 | 26.5 | 191.7 | 235-285 | 23.5-29.5 | 170.0-213.4 |
| 18 | 27 | 360 | 37 | 267.6 | 320-400 | 33.0-41.0 | 238.7-296.6 |
| 20 | 30 | 510 | 52.3 | 378.3 | 455-565 | 46.5-58.0 | 336.3-419.5 |
| 22 | 32 | 688 | 70.3 | 508.5 | 610-765 | 62.5-78.0 | 452.1-564.2 |
| 24 | 36 | 883 | 90 | 651 | 785-980 | 80.0-100.0 | 578.6-723.3 |
| 27 | 41 | 1295 | 132.5 | 958.4 | 1150-1440 | 118.0-147.0 | 853.5-1063.3 |
| 30 | 46 | 1720 | 175.0 | 1265.8 | 1520-1910 | 155.0-195.0 | 1121.1-1410.4 |
| 33 | 50 | 2210 | 225.0 | 1627.4 | 1960-2450 | 200.0-250.0 | 1446.6-1808.3 |
| 36 | 55 | 2750 | 280.0 | 2025.2 | 2450-3040 | 250.0-310.0 | 1808.3-2242.2 |
| 39 | 60 | 3280 | 335.0 | 2423.1 | 2890-3630 | 295.0-370.0 | 2133.7-2676.2 |




Apply the following table for Hydraulic Hose.

| Thread diameter a (mm) | Width across flat b(mm) | Tightening torque [Nm (kgm)] | |
|---|---|---|---|
| | | Target value | Permissible range |
| 9/16 -18UNF | 19 | 44 (4.5) | 35 - 54 (3.5 - 5.5) |
| 11/16 -16UN | 22 | 74 (7.5) | 54 - 93 (5.5 - 9.5) |
| 13/16 -16UN | 27 | 103 (10.5) | 84 - 132 (8.5 - 13.5) |
| 1 -14UNS | 32 | 157 (16.0) | 128 - 186 (13.0 - 19.0) |
| 1·3/16 -12UN | 36 | 216 (22.0) | 177 - 245 (18.0 - 25.0) |
| *1-7/16-12UN -2B | 41 | 215 (22) | 176 - 234 (18 - 24) |




- The torques marked * indicate the tightening torques for the hoses at the top of the swivel joint.



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## EVERY 1000 HOURS MAINTENANCE

Maintenance for every 50, 250 and 500 hours should be carried out at the same time.

### REPLACE FUEL MAIN FILTER CARTRIDGE

**⚠ WARNING**

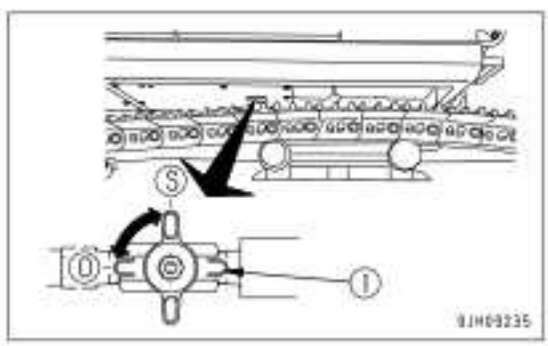
- **After the engine has been operated, all parts are at high temperature, so do not replace the filter immediately. Wait for all parts to cool down before starting the operation.**
- **High pressure is generated inside the engine fuel piping system when the engine is running.**
  **When replacing the filter, wait for at least 30 seconds after stopping the engine to let the internal pressure go down before replacing the filter.**
- **Do not bring any fire or flame close.**

**NOTICE**

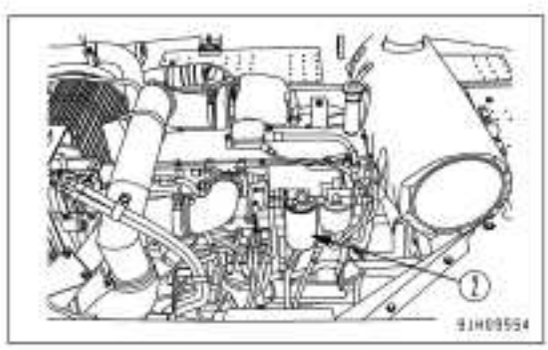
- **Genuine Komatsu fuel filter cartridges use a special filter that has highly efficient filtering ability. When replacing the filter cartridge, always use a genuine Komatsu part.**
- **The common rail fuel injection system used on this machine consists of more precise parts than the conventional injection pump and nozzle.**
  **If any part other than a genuine Komatsu filter cartridge is used, dust or dirt may get in and cause problems with the injection system. Always avoid using substitute parts.**
- **When carrying out inspection or maintenance of the fuel system, pay more attention than normal to the entry of dirt. If dirt is stuck to any part, use fuel to wash it off completely.**

- Container to catch the oil
- Prepare a filter wrench

1. Turn the valve (1) at the bottom of the fuel tank to the CLOSE position (S).




2. Open the engine hood.
3. Set the container to catch the fuel under the filter cartridge.
4. Using a filter wrench, turn filter cartridge (2) counterclockwise to remove it.
5. Clean the filter holder, coat the packing surface of the new filter cartridge thinly with oil, then install the filter cartridge to the filter holder.






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