PART NO.

HITACHI

Workshop Manual

EX

EX1800-3

Hydraulic Excavator

Service Manual consists of the following separate Part No.
Technical Manual (Troubleshooting)
Workshop Manual

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- Be sure to thoroughly read all precautions for disassembly/assembly work on page W1-1-1 before starting any repair work.

Disassembling

CAUTION: Pedestal (3) weight: Approx. 42 kg (95 lb)

1. Remove pin (1) from pedestal (3) on the one side. Remove pedestal (3) from axle (8).

CAUTION: Idler (7) weight: 670 kg (1480 lb) Pedestal (3) plus axle (8) weight: Approx. 140 kg (310 lb)

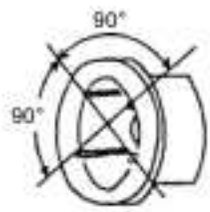
2. Remove O-ring (5) from axle (8). Remove axle (8) along with remaining pedestal (3) from idler (7).

CAUTION: Pedestal (3) weight: Approx. 42 kg (95 lb) Axle (8) weight: 96 kg (212 lb)

3. Remove pin (1) from pedestal (3) to remove pedestal (3) on the other side from axle (8).

4. Remove floating seals (4) from pedestals (3) and idler (7).

5. When replacing bushing (6), remove it from idler (7) after contracting bushing (6) diameter by cladding the inside diameter of bushing (6) in four places, 90 degrees apart from each other with an electrode, as illustrated.



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Assembling

1. Coat idler (7) bore (where two bushings (6) are installed) with a lubricant.

CAUTION: Idler (7) weight: 670 kg (1480 lb)

2. Install bushings (6) (2 used) into idler (7) using an oil press.

CAUTION: Axle (8) weight: 96 kg (212 lb) Pedestal (3) weight: Approx. 42 kg (95 lb)

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PREPARATION FOR REMOVAL AND INSTALLATION OF CYLINDER

The removal and installation of the loader front attachment is described in this section as an example. Remove and install the backhoe front attachment following almost the same procedures.

CAUTION: Escaping fluid under pressure can penetrate the skin or eyes, causing serious injury.
Avoid this hazard by relieving pressure before disconnecting hydraulic lines.

Hot hydraulic oil may spout after operation, possibly causing severe injury. Wait for oil to cool before starting any repair work.

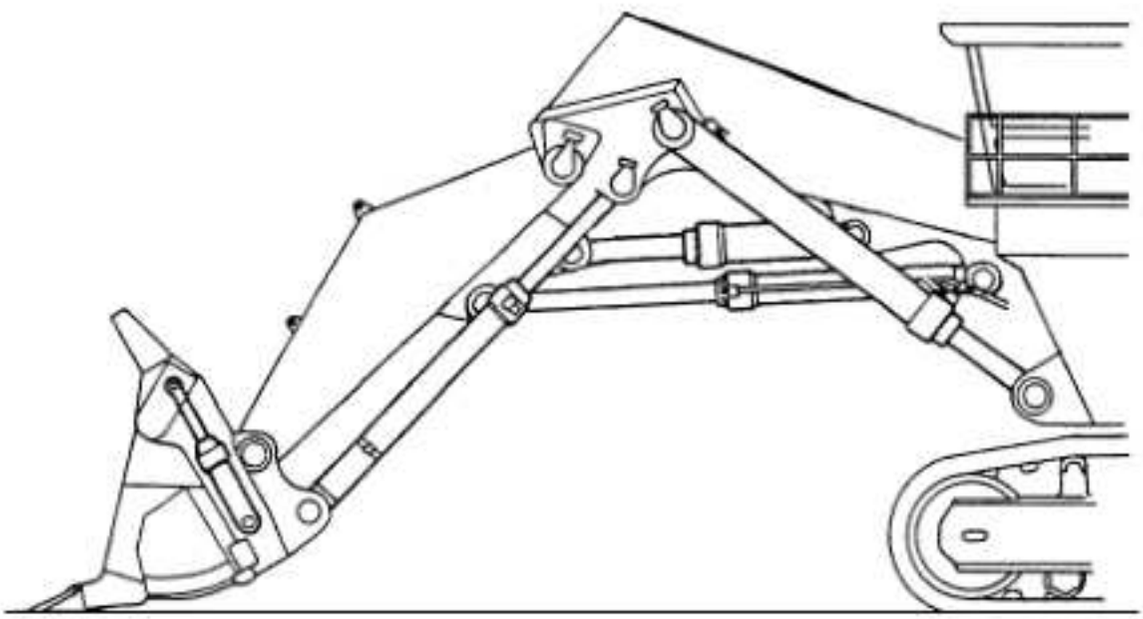
The hydraulic oil tank cap may fly off if removed without releasing internal pressure first. Thoroughly release any remaining pressure before removing the cap.

Preparation

1. Park the machine on solid and level ground. Lower the front attachment to the ground.
2. After stopping the engine, move all control levers several times to relieve any pressure remaining in the system. Turn the hydraulic oil tank cap approx. 30 ° counterclockwise to release any air trapped in the hydraulic oil tank.
3. After removing the hydraulic oil tank cap, connect a vacuum pump and operate it continuously to maintain negative pressure in the hydraulic oil tank.

NOTE: Run the vacuum pump continuously until the repair work is finished.

1. Park the machine on solid and level ground. Then, position the front attachment as illustrated below.



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