Ingersoll-Rand
Utility Equipment

Operating & Maintenance Manual

Crawler Excavator
ZX75



This manual contains important safety information.
Do not destroy this manual.
This manual must be available to the personnel who operate and maintain this machine.

Ingersoll-Rand
Utility Equipment
P.O. Box 868 - 501 Sanford Ave
Mocksville, N.C. 27028

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Swing drive	Hydrostatic with two-stage planetary gear and drive pinion on internally toothed ring gear of swing bearing. Swing range: 360° unlimited Swing speed: 0 - 11 rpm
Knickmatik® boom control	Bend mechanism for the lateral parallel adjustment of the boom axle at total digging depth. Lateral adjustment to the right: 37.4 in/950 mm Lateral adjustment to the left: 32 in/815mm
Hydraulic oil filter	Full-flow return filter in tank for excavator installation.
Hydraulic oil cooler	Integrated in water cooler (combined cooler)
Dozer blade	Hand lever providing sensitive control Float position (**option**)
Dozer-support blade	
Width	91.7 in/2330 mm
Digging depth	15.3 in/390 mm
Lift above road level	19.6 in/500 mm
Slope angel	35°

3.8 Lubricants

3.8.1 Filling Quantities

All values stated are approximate			
Fuel	approx.		Diesel 34.3 gal/130L
Engine oil	approx.		HD-oil (initial filling)2.6 gal/10L
Hydraulic oil, tank and system	approx.		Hydraulic oil 36.9 gal/140L
Hydraulic oil tank	approx.		Hydraulic oil 29 gal/110L
Crawler gear units	each approx.		Transmission oil .47 gal/1.8 L
Swing gear	circulating lubrication through hydraulic system		
Engine coolant	approx.		Water with anti-corrosion agent and antifreeze 3.1 gal/12L

The level marking is always the decisive factor.

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4.4.3 Air Conditioning (Option)

- Heater control (14/15) in "Cold" position.
- Switch on air conditioning using the switch (14/40).
- Increase or decrease the temperature by operating the fan switch (14/30).
- Select fresh or recirculating air using (14/18) as desired.

4.5 Front Window

- To open the window, release the two levers (15/1).
- Pull the window back and up at the same time.
- Lock the window in the upper position with the lever (15/1).

Ventilation Position

- Release the two levers (15/1).
- Pull the window back approx. 10 cm.
- Lock the levers in the guiding system.

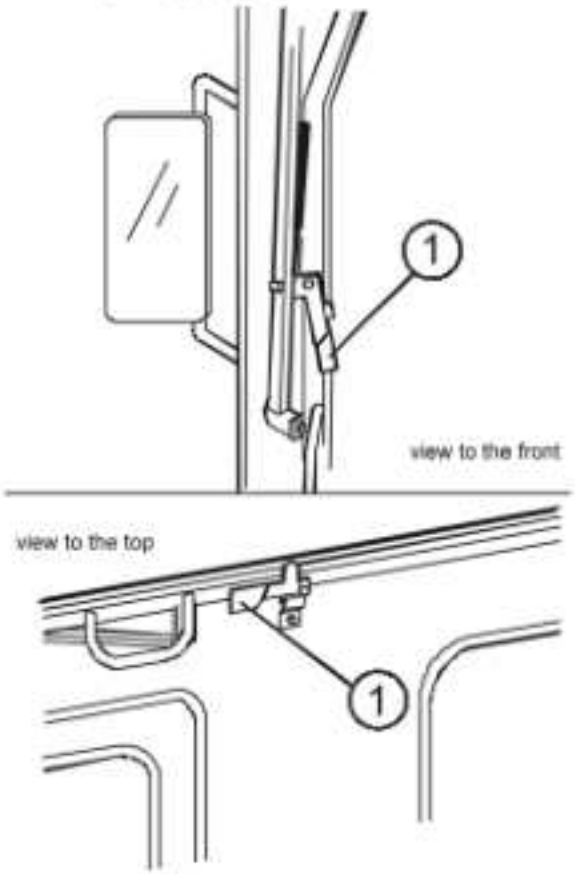


Fig. 15 - Front window

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7.9.14 Swing Bearing

Lubrication of Toothing

- The lubricating nipple (68/1) mounted in the driver's cab lubricates the toothing of the ring gear via a nozzle tube (68/2).
- To this purpose, slowly slew the uppercarriage and lubricate it thoroughly at the same time using a grease gun.

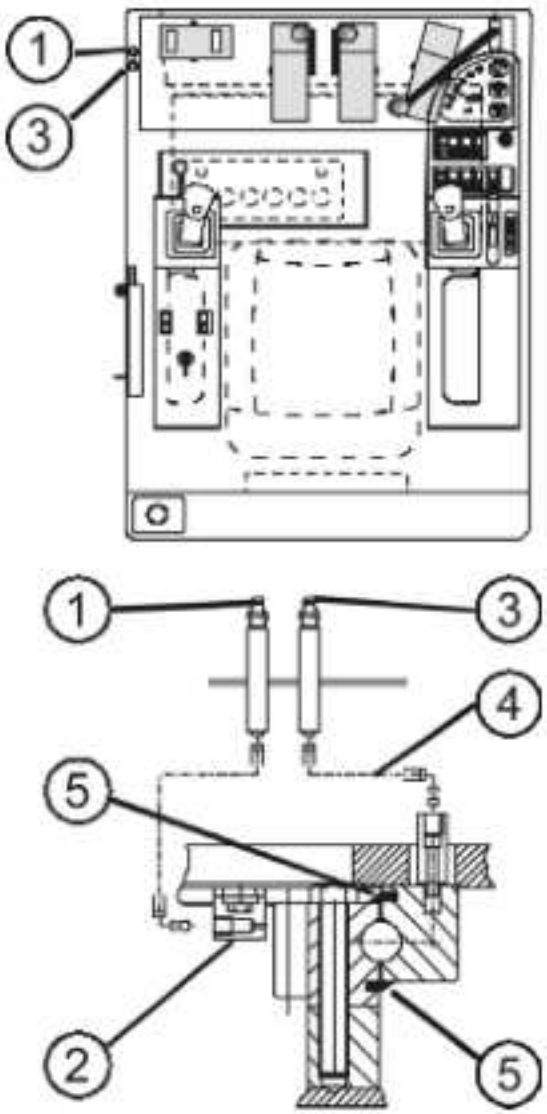


Fig. 68 - Swing bearing

Lubrication of Bearing Races

- The bearing races are lubricated via the lubricating nipple (68/3) mounted in the driver's cab and through a lubricating pipe (68/4).
- Slowly slew the uppercarriage, and lubricate it thoroughly until both gaskets (68/5) have a collar of fresh grease.

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1.3 Notes on Using the Instruction Book

References to Pictures and Items

The references to pictures and items contained in the text, such as "Figure 12/4" mean Figure 12, Item 4.

Look for these signs on the machine.

⚠ DANGER
(Red Background)
Indicates the presence of a hazard which WILL cause serious injury, death or property damage, if ignored.

⚠ WARNING
(Orange Background)
Indicates the presence of a hazard which CAN cause serious injury, death or property damage, if ignored.

⚠ CAUTION
(Yellow Background)
Indicates the presence of a hazard which WILL or can cause injury or property damage, if ignored.

NOTICE
(Blue Background)
Indicates important set-up, operating or maintenance information.

1.4 Environmental Requirements

Applicable environmental requirements must be observed for all tasks performed on and with the machine.

During installation, repair and maintenance tasks, particular care must be taken that substances that would damage the environment such as:

- Lubricating grease and oil

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5.3 Changing Work Attachments

5.3.1 General

Various working attachments are available to achieve maximum utilization of the machine for a variety of applications.

The machine is equipped with a quick-attach system to shorten the time it would take to install attachments.

When mounting a clamshell grab, rotatable ditch-cleaning bucket or a hydraulic rock breaker, an additional control circuit is required. Additionally, an open return (return line directly to tank) may be required when operating the hydraulic rock breaker.

NOTICE

Under certain circumstances there is the possibility to use the work attachments of predecessor models for our machines. When mounting the work attachments of predecessor models they may have to be adjusted and/ or may be subject to utilization restrictions. It is *essential* to consult your dealer before mounting such a work attachment.

NOTICE

When the attachments have been removed, they must be secured against tilting and overturning to avoid possible injuries to persons.

5.3.2 Assembly of Work Attachments

NOTICE

The bearings of the quick-mount hitch and work attachment must be free of dirt.

The system must be relieved of pressure before hydraulic connections are disconnected.

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