

UHO7-3

Hydraulic Excavator



APPLICABLE MACHINE
SERIAL NO. -5001~

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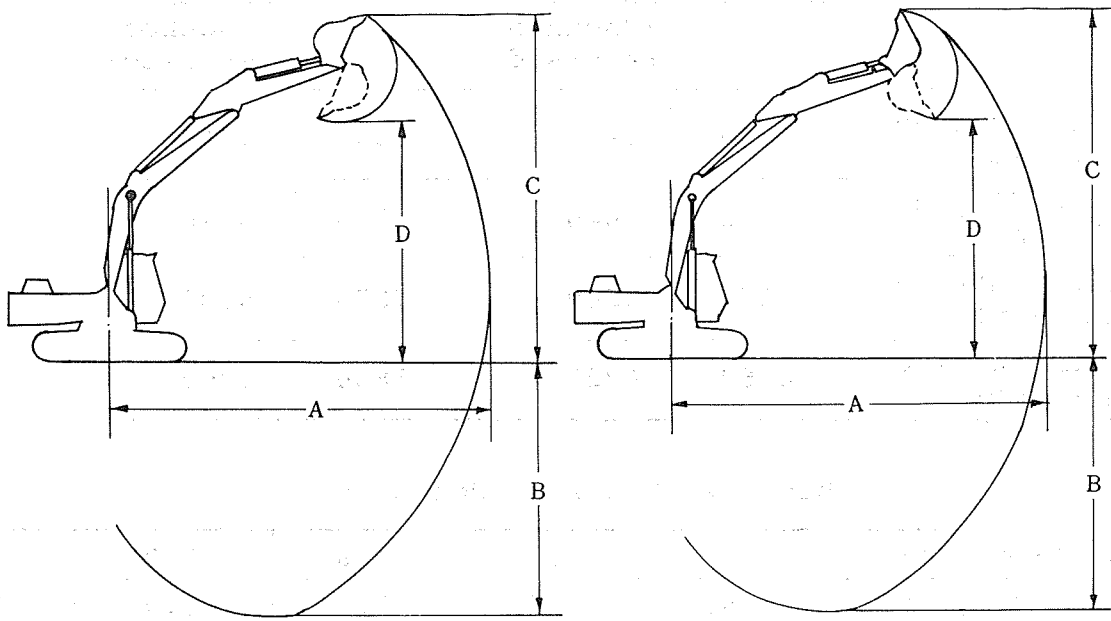
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Long-arm front



Short-arm front

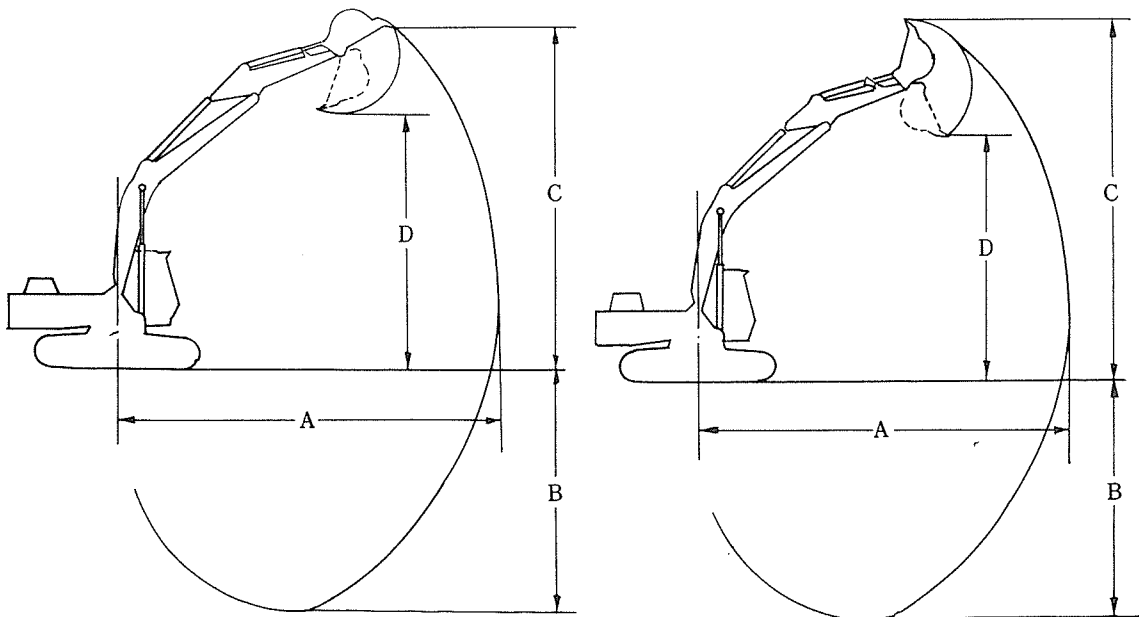


Fig. 1-2 Range Diagram

- (3) All controls are arranged within easy reach of the operator. They are shown in Fig. 3-4. Go over the levers several times until you are familiar with their positions and names. After practicing enough to be sure of the levers, then start going through the motions.

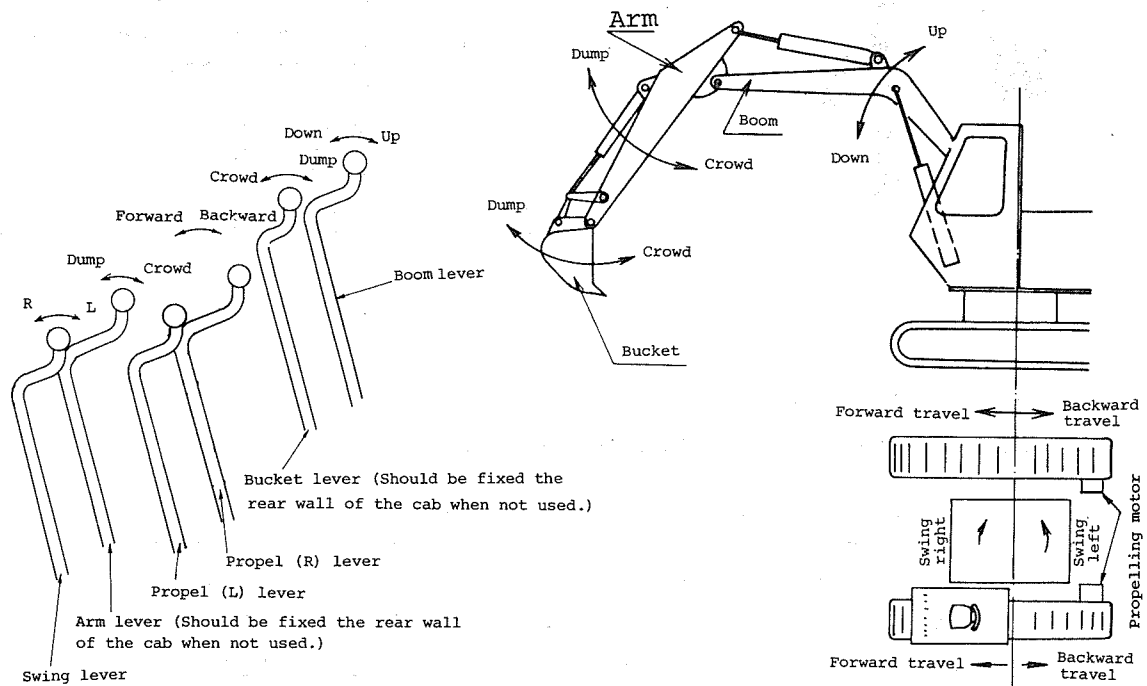


Fig. 3-4

- (4) The boom control lever will require greater effort when the engine is stationary. It is, however, considered normal since the assist valve will not function effectively under such conditions.
- (5) The bucket and arm lever can be removed by backing off the bolts shown in Fig. 3-5. After removing, hang them on the holder at the rear of the operator's seat. (Fig. 3-6)
- (6) It is essential that the levers be lubricated by pumping grease through the grease fittings from time to time. (Fig. 3-7)

4. MAINTENANCE AND ADJUSTMENT

4.1 PERIODIC INSPECTION AND MAINTENANCE

The purpose of the periodic maintenance services is to detect minor irregularities and prevent them from developing into serious conditions.

A few minutes spent daily will be repaid in longer machine life and reduced maintenance.

The following topics give detailed instructions with regards to the care and adjustments of the various parts of the Hitachi UH07-3 Excavator.

Periodic Maintenance Schedule

Daily services	Services carried out before the day's work
Monthly services	Services carried out every month
Yearly services	Services carried out every year
Replacement of oils, grease, filter elements	Lubricant and oil filter element which have reached their service hours as indicated by the hour meter should be replaced at next daily or monthly maintenance services.

4.1.1 Daily Inspection and Maintenance Services

	Services	Description · Reference Page
ENGINE	1. Check dirty oil, cooling water and check the level in the tank	34 ~ 38
	2. Check V-belt for looseness and damages.	
	3. Check for smooth starting, exhaust color and noise.	
	4. Check for any sign of water and oil leaks. Check for damage to hoses and pipings.	52
	5. Check for damage to radiator.	
	6. Check for loose or missing bolts and nuts.	

4.3 TABLE OF RECOMMENDED LUBRICANTS

Table 4-2 Recommended Lubricants

It cannot be guaranteed against any problem caused by use of the fuel and lubricating oil and grease that are not specified.

UH07-3 Applied to serial No.164-6748 and up.

Kinds of lubricants	Hydraulic oil	Engine oil	Bearing grease	Gear oil	Oil for floating seal
Where to be applied	Hydraulic system	Engine crankcase, fuel injection pump and governor	Swing gear, Swing bearing	Transmission, swing unit and propelling unit	Rollers, idler
Manufacturer	Above -10°C Below -10°C	Above 32°C Below 32°C	Above 32°C Below 32°C		
Caltex oil	Caltex Land oil	Caltex RPM Delo 300 oil	Multifac EP	Multi-purpose van EP90	
	A AA	SAE40 SAE30 SAE10W	2 1 0		
Esso standard oil	Tellesto	Essolube HD standard fleet oil	Nebula EP	Esso gear oil GP 90 or standard gear oil SAE90	
	No.43 No.44	No.40 No.30 No.10W	No.1		
Idemitsu Kosan	Daphne super Hydraulic Fluid	Aporoil Diesel motive S-300	Daphne coronex grease	Aporoil gear HE90	Diesel engine oil series Class 3 SAE#30
	44 AV	340 330 320 Custom wide 15W-40	No.2		
Mobil oil	Mobil DTE oil light or DTE24	Mobil delvac	Mobil prex	Mobilube HD80W-90	
		1340 1330 1310	47 46 45		
Nippon Sekiyu	Super Highland	High diesel engine oil S-3	Lipano grease	Niseki gearlube SP90	
	32 22	SAE40 SAE30 SAE10W	No.2 No.1 No.0		
Shell oil	Shell tellus oil 25 T oil 27	Shell rympla XS oil	Shell alvania EP grease 2	Shell spirax EP90	
		40 30 20/20W			
Remarks		Normal (both summer and winter) : SAE No.30 equivalents Tropical zone: SAE No.40 equivalents Freezing zone: SAE No.10W equivalents	Front grease Hilex No.1 (NIHONKOYU)		

Fuel: JIS No.2 light oil at -10°C and above. JIS No.3 light oil at -10°C and below.
 Note: Those products encircled by bold line are shipped together with the main product.
 The engine oil used is Custom wide 15W-40 (for all seasons) of Idemitsu Kosan Co.
 Do not mix any other brand oil with filled oil.
 For use of it, replace all oil.

4.6.11 Swing Bearing

(1) Swing bearing

Lubricate the bearing through the grease fitting, Fig. 4-16, while the upper works are being rotated.

(2) Swing gear

To lubricate the swing gear, remove the plug, Fig. 4-17, and apply grease to the gear teeth with a putty knife or the like while the upper works are being rotated.

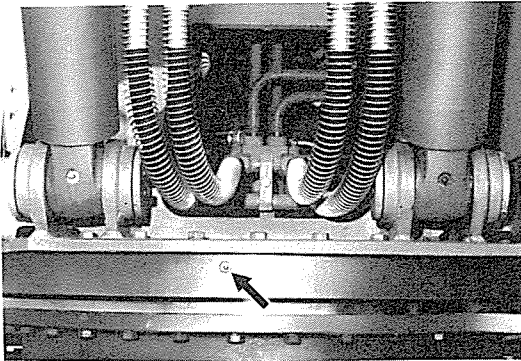


Fig. 4-16 Lubricating Swing Bearing

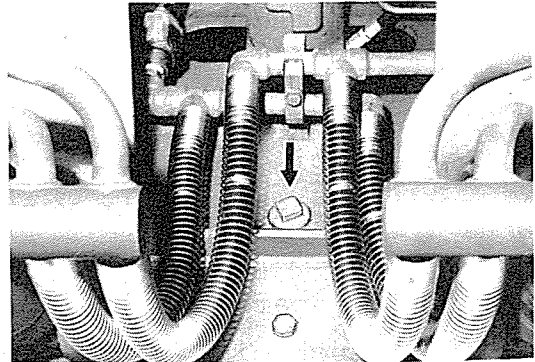


Fig. 4-17 Lubricating Swing Gear

4.6.12 Air Filter (Fig. 4-18)

Drain water and sediments from the transparent filter case through the drain cock at the bottom when the level line engraved inside the case is reached.

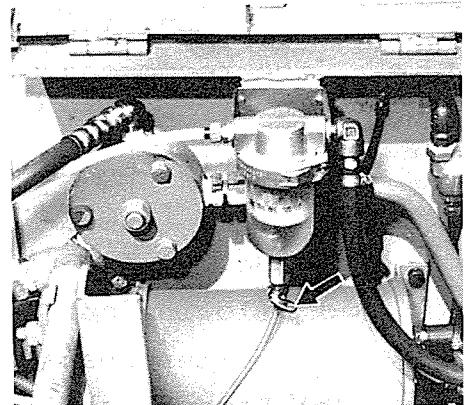


Fig. 4-18 Air Filter

4.6.13 Hydraulic Oil

(1) Precautions

- a) Place the excavator on a firm, level surface where there is no danger of caving and sliding.
- b) Pay attention to methods of protecting oil from dirt or other particles.
- c) Do not mix different oils in the system as they are not compatible. Stay with one oil as recommended in this manual.

(2) Replacement procedure

To replace points, proceed as follows:

- a) Using a hammer and a drift, drive out the locking pin from the point to be replaced.

CAUTION: Do not point the drift to the rubber pin lock lest it should be damaged.

Remove the point. Check the removed pin and rubber lock for condition, replacing those that are worn or damaged beyond use.

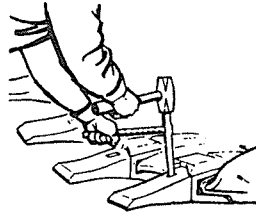
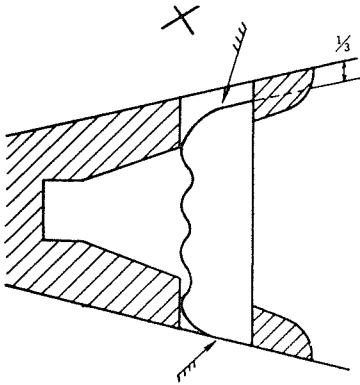


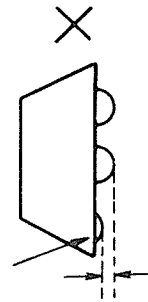
Fig. 4-41



Align bottom of pin with lower face of point.
Pin is too short.



Steel balls will come out due to cracked rubber lock.



Steel balls are pushed in by hand easily due to deteriorated rubber lock.

Fig. 4-42

- b) Using a putty knife or the like, clean the outer surface of the nose thoroughly.
- c) Press the rubber pin lock into place in the hole in the nose. Use care when installing the lock not to allow it to come out above the nose.
- d) Clean the interior of the point and install to the nose. Before installing, check that the point and point mounting face of the nose are clean of dust, mud and sand.

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