

4. MAINTENANCE CHECK LIST

1) DAILY SERVICE BEFORE STARTING

Check items	Service	Page
Visual check		
Fuel tank	Check, Refill	6-25
Hydraulic oil level	Check, Add	6-30
Engine oil level	Check, Add	6-18
Coolant level	Check, Add	6-20
Control panel & pilot lamp	Check, Clean	6-44
Prefilter	Check, Clean	6-26
Fan belt tension & damage	Check, Adjust	6-24

2) EVERY 50 HOURS SERVICE

Check items	Service	Page
Fuel tank (Water sediment)	Drain	6-25
Swing bearing grease	Check, Add	6-33
Drive shaft grease (Flange bearing)	Check, Add	6-34
Swing reduction gear oil	Check, Add	6-33
Transmission case oil	Check, Add	6-39
Wheel nuts	Check, Tighten	6-36
Tires (Air pressure)	Check, Inflate	6-36
Front axle pivot pin bushing	Check, Lubricate	6-35
Lubricate pin and bushing	Lubricate	6-43
· Boom cylinder tube end		
· Boom foot		
· Boom cylinder rod end		
· Arm cylinder tube end		
· Arm cylinder rod end		
· Boom + Arm connecting		
· Bucket cylinder tube end		
· Bucket cylinder rod end		
· Arm + Bucket connecting		
· Arm + Link, Bucket control		
· Bucket control rod		
· Bucket link connecting		
· Dozer blade cylinder (Rod end, tub end)		6-35
· Dozer blade pivot pin		6-35
· Outrigger (Pivot pin, cylinder pin)		6-35

3) INITIAL 50 HOURS SERVICE

Check items	Service	Page
Engine oil	Change	6-18, 19
Engine oil filter	Replace	6-18, 19
Prefilter (water, element)	Replace	6-26
Fuel filter element	Replace	6-27
Bolts & Nuts	Check, Tight	6-8
<ul style="list-style-type: none"> · Power train mounting bolts · Swing motor mounting bolts · Swing bearing mounting bolts · Engine mounting bolts · Counterweight mounting bolts · Turning joint locating bolts · Hydraulic pump mounting bolts 		

Service the above items only for the new machine, and thereafter keep the normal service interval.

4) INITIAL 100 HOURS SERVICE

Check items	Service	Page
Transmission oil	Change	6-39

5) EVERY 100 HOURS SERVICE

Check items	Service	Page
★ Return filter	Replace	6-31
★ Pilot line filter	Replace	6-32
★ Drain filter cartridge	Replace	6-32

★ Replace 3 filters for continuous hydraulic breaker operation only.

6) INITIAL 250 HOURS SERVICE

Check items	Service	Page
Swing reduction gear oil	Change	6-33
Pilot line filter	Replace	6-31
Hydraulic return filter	Replace	6-31
Drain filter cartridge	Replace	6-32

7) EVERY 250 HOURS SERVICE

Check items	Service	Page
Battery (Voltage)	Check, Clean	6-44
Aircon & heater flesh filter	Check, Clean	6-48
Air breather element	Replace	6-32
Front axle steering case grease	Lubricate	6-35
Front & rear axle gear oil	Check, Add	6-37
Bolts & Nuts	Check, Tight	6-8
<ul style="list-style-type: none"> · Power train mounting bolts · Swing motor mounting bolts · Swing bearing mounting bolts · Engine mounting bolts · Counterweight mounting bolts · Turning joint locating bolts · Hydraulic pump mounting bolts 		

8) INITIAL 500 HOURS SERVICE

Check items	Service	Page
Axle oil	Change	6-38

9) EVERY 500 HOURS SERVICE

Check items	Service	Page
★Engine oil	Change	6-18, 19
★Engine oil filter	Replace	6-18, 19
Prefilter	Change	6-26
Radiator, cooler fin and charge air cooler	Check, Clean	6-23
☆Air cleaner element (Primary)	Check, Clean	6-25
Fuel filter element	Replace	6-27

★ If you use high sulfur containing fuel above than 0.5% or use low grade of engine oil reduce change interval.

☆ Clean the primary element only after 500 hours operation or when the air cleaner warning lamp blinks. Replace primary element and safety element after 4 times cleanings of primary element.

10) EVERY 1000 HOURS SERVICE

Check items	Service	Page
Swing reduction gear oil	Change	6-33
Grease in swing gear and pinion	Change	6-33
Transmission oil	Change	6-38
Hydraulic oil return filter	Replace	6-31
Pilot line filter	Replace	6-32
Drain filter cartridge	Replace	6-32
Axle oil	Change	6-38

11) EVERY 2000 HOURS SERVICE

Check items	Service	Page
Hydraulic tank		
★ · Oil	Change	6-30
· Suction strainer	Check, Clean	6-31
Coolant	Change	6-20, 21, 22, 23

★Change oil every 600 hours of continuous hydraulic breaker operation.

12) WHEN REQUIRED

Whenever you have trouble in the machine, you must perform the service of related items, system by system.

Check items	Service	Page
Fuel system		
· Fuel tank	Drain or Clean	6-25
· Prefilter	Clean or Replace	6-26
· Fuel filter element	Replace	6-26-1
Engine lubrication system		
· Engine oil	Change	6-18, 19
· Engine oil filter	Replace	6-18, 19
Engine cooling system		
· Coolant	Add or Change	6-20, 21, 22, 23
· Radiator	Clean or Flush	6-20, 21, 22, 23
· Charge air cooler	Check	6-23
Engine air system		
· Air cleaner element	Replace	6-25
Hydraulic system		
· Hydraulic oil	Add or Change	6-30
· Return filter	Replace	6-31
· Drain filter cartridge	Replace	6-32
· Pilot line filter	Replace	6-32
· Air breather element	Replace	6-32
· Suction strainer	Clean	6-31
Tire pressure	Check, Inflate	6-36
Bucket		
· Tooth	Replace	6-41
· Side cutter	Replace	6-41
· Linkage	Adjust	6-40
· Bucket assy	Replace	6-40
Air conditioner and heater		
· Fresh filter	Clean, Replace	6-47
· Recirculation filter	Clean	6-48