

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	6-27
Engine oil level	Check, Add	6-18
Coolant level	Check, Add	6-20
Control panel & pilot lamp	Check, Clean	6-38
Water separator(~#173)	Check, Drain	6-26
Prefilter(#174~)	Check, Clean	6-26
Fan belt tension & damage	Check, Clean	6-24

2) EVERY 50 HOURS SERVICE

Check items	Service	Page
Fuel tank(Water sediment)	Drain	6-25
Track tension	Check, Adjust	6-33
Swing bearing grease	Lubricate	6-31
Swing reduction gear oil	Check, Add	6-31
Swing reduction gear grease	Check, Add	6-31
Lubricate pin and bushing	Lubricate	6-37
· 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		

3) INITIAL 50 HOURS SERVICE

Check items	Service	Page
Engine oil	Change	6-18, 19
Engine oil filter	Replace	6-18, 19
Prefilter(#174~)	Replace	6-26
Pilot line filter	Replace	6-30
Hydraulic return filter	Replace	6-29
Drain filter cartridge	Replace	6-30
Fuel filter element	Replace	6-26-1
Bolts & Nuts	Check, Tight	6-8
<ul style="list-style-type: none"> · Sprocket mounting bolts · Travel motor mounting bolts · Swing motor mounting bolts · Swing bearing mounting bolts · Engine mounting bolts · Counterweight mounting bolts · Turning joint locating bolts · Track shoe mounting bolts and nuts · Hydraulic pump mounting bolts 		

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

4) EVERY 100 HOURS SERVICE

Check items	Service	Page
★ Return filter	Replace	6-29
★ Pilot line filter	Replace	6-30
★ Air breather element	Replace	6-30
★ Drain cartridge filter	Replace	6-30

★ Replace 4 filters for continuous hydraulic breaker operation only.

5) INITIAL 250 HOURS SERVICE

Check items	Service	Page
Swing reduction gear oil	Change	6-31

6) EVERY 250 HOURS SERVICE

Check items	Service	Page
★Engine oil	Change	6-18, 19
★Engine oil filter	Replace	6-18, 19
Battery electrolyte	Check, Add	6-38
Hydraulic oil return filter	Replace	6-29
Drain filter cartridge	Replace	6-30
Pilot line filter	Replace	6-30
Aircon & heater flesh filter	Check, Clean	6-41, 42
Air breather element	Replace	6-30
Bolts & Nuts	Check, Tight	6-8
· Sprocket mounting bolts		
· Travel motor mounting bolts		
· Swing motor mounting bolts		
· Swing bearing mounting bolts		
· Engine mounting bolts		
· Counterweight mounting bolts		
· Turning joint locating bolts		
· Track shoe mounting bolts and nuts		
· Hydraulic pump mounting bolts		

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

7) INITIAL 500 HOURS SERVICE

Check items	Service	Page
Travel reduction gear oil	Change	6-32

8) EVERY 500 HOURS SERVICE

Check items	Service	Page
Prefilter(#174~)	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	6-26-1

☆ 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.

9) EVERY 1000 HOURS SERVICE

Check items	Service	Page
Travel motor reduction gear oil	Change	6-32
Swing reduction gear oil	Change	6-31
Grease in swing gear and pinion	Change	6-32

10) EVERY 2000 HOURS SERVICE

Check items	Service	Page
Hydraulic tank		
★ · Oil	Change	6-28
· Suction strainer	Check, Clean	6-29
Coolant	Change	6-20, 21, 22, 23

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

11) 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
· Water separator(~#173)	Drain or Replace	6-26
· Prefilter(#174~)	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	6-28
· Return filter	Replace	6-29
· Drain line filter	Replace	6-30
· Pilot line filter	Replace	6-30
· Element of breather	Replace	6-30
· Suction strainer	Clean	6-29
Under carriage		
· Track tension	Check, Adjust	6-33
Bucket		
· Tooth	Replace	6-35
· Side cutter	Replace	6-35
· Linkage	Adjust	6-34
· Bucket assy	Replace	6-34
Air conditioner and heater		
· Fresh filter	Clean, Replace	6-41
· Recirculation filter	Clean	6-41, 42