

## 4. MAINTENANCE CHECK LIST

### 1) DAILY SERVICE BEFORE STARTING

Check items	Service	Page
Visual check		
Fuel tank	Check, Refill	6-23
Hydraulic oil level	Check, Add	6-27
Engine oil level	Check, Add	6-18
Coolant level	Check, Add	6-19
Control panel & pilot lamp	Check, Clean	6-37
Water separator	Check, Drain	6-24
Fan belt tension	Check, Adjust	6-22

### 2) EVERY 50 HOURS SERVICE

Check items	Service	Page
Fuel tank	Drain	6-23
Track tension	Check, Adjust	6-32
Swing bearing	Lubricate	6-30
Swing reduction gear oil	Check, Add	6-30
Lubricate pin and bushing	Lubricate	6-36
· 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
Pilot line filter	Replace	6-29
Hydraulic return filter	Replace	6-28
Drain filter cartridge	Replace	6-29
Fuel filter	Replace	6-24
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		

**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	6-28
★ Pilot line filter	Replace	6-29
★ Element in hydraulic tank breather	Replace	6-29
★ Drain filter cartridge	Replace	6-29

**★ Replace 4 filters for continuous hydraulic breaker operation only.**

## 5) EVERY 250 HOURS SERVICE

Check items	Service	Page
★ Engine oil	Change	6-18, 19
★ Engine oil filter	Replace	6-18, 19
Battery(Electrolyte, voltage)	Check, Add	6-37
Hydraulic oil return filter	Replace	6-28
Drain filter cartridge	Replace	6-29
☆ Swing reduction gear oil	Change	6-30
☆ Swing reduction grease	Check, Add	6-30
Pilot line filter	Replace	6-29
Element in hydraulic tank breather	Replace	6-29
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.

☆ Change oil and add grease after initial 250 hours of operation.

## 6) EVERY 500 HOURS SERVICE

Check items	Service	Page
Radiator and cooler fin	Inspect, Clean	6-21
★ Air cleaner element(Primary)	Check, Clean	6-23
Fuel filter	Replace	6-24
Travel reduction gear oil	Check, Add	6-31
☆ Travel reduction gear oil	Change	6-31

★ 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.

☆ Change oil after initial 500 hours of operation.

## 7) EVERY 1000 HOURS SERVICE

Check items	Service	Page
Travel motor reduction gear oil	Change	6-31
Swing reduction gear oil	Change	6-30
Swing reduction grease	Refill	6-30
Grease in swing gear and pinion	Change	6-31

## 8) EVERY 2000 HOURS SERVICE

Check items	Service	Page
Hydraulic tank		
★ · Oil	Change	6-27
· Suction strainer	Check, Clean	6-28
Coolant	Change	6-19, 20, 21

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

## 9) WHEN REQUIRED

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

Check items	Service	Page
<b>Fuel system</b>		
· Fuel tank	Drain or Clean	6-23
· Water separator	Drain or Replace	6-24
· Fuel filter	Replace	6-24
<b>Engine lubrication system</b>		
· Engine oil	Change	6-18, 19
· Engine oil filter	Replace	6-18, 19
<b>Engine cooling system</b>		
· Coolant	Add or Change	6-19, 20, 21
· Radiator	Clean or Flush	6-19, 20, 21
<b>Engine air system</b>		
· Air cleaner element(Primary, safety)	Replace	6-23
<b>Hydraulic system</b>		
· Hydraulic oil	Add or Change	6-27
· Return filter	Replace	6-28
· Drain line filter	Replace	6-29
· Pilot line filter	Replace	6-29
· Element of breather	Replace	6-29
· Suction strainer	Clean	6-28
<b>Undercarriage</b>		
· Track tension	Check, Adjust	6-32
<b>Bucket</b>		
· Tooth	Replace	6-34
· Side cutter	Replace	6-34
· Linkage	Adjust	6-35
· Bucket assy	Replace	6-33
<b>Air conditioner and heater</b>		
· Fresh filter	Clean, Replace	6-40
· Recirculation filter	Clean	6-41