

## 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	Check, Drain	6-26
Fan belt tension and damage	Check, Adjust	6-24

### 2) EVERY 50 HOURS SERVICE

Check items	Service	Page
Fuel tank	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
Pilot line filter	Replace	6-30
Hydraulic return filter	Replace	6-29
Drain filter cartridge	Replace	6-30
Fuel filter	Replace	6-26
Bolts & Nuts	Check, Tight	6-8
<ul style="list-style-type: none"> <li>· Sprocket mounting bolts</li> <li>· Travel motor mounting bolts</li> <li>· Swing motor mounting bolts</li> <li>· Swing bearing mounting bolts</li> <li>· Engine mounting bolts</li> <li>· Counterweight mounting bolts</li> <li>· Turning joint locating bolts</li> <li>· Track shoe mounting bolts and nuts</li> <li>· Hydraulic pump mounting bolts</li> </ul>		

**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
★ Element in hydraulic tank breather	Replace	6-30
★ Drain cartridge filter	Replace	6-30

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

### 5) EVERY 250 HOURS SERVICE

Check items	Service	Page
Battery (Electrolyte, voltage)	Check, Add	6-38
Hydraulic oil return filter	Replace	6-29
Drain filter cartridge	Replace	6-30
★ Swing reduction gear oil	Change	6-31
★ Swing reduction gear grease	Check, Add	6-31
Pilot line filter	Replace	6-30
Element in hydraulic tank breather	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		

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

### 6) EVERY 500 HOURS SERVICE

Check items	Service	Page
★Engine oil	Change	6-18, 19
★Engine oil filter	Replace	6-18, 19
Radiator and oil cooler	Check, Clean	6-23
Air cleaner element(Primary)	Inspect, Clean	6-25
Fuel filter element	Replace	6-26
Travel reduction gear oil	Check, Add	6-32
◆Travel reduction gear oil	Change	6-32

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

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	6-32
Swing reduction gear oil	Change	6-31
Swing reduction grease	Refill	6-31
Grease in swing gear and pinion	Change	6-32

### 8) 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.

## 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
Fuel system		
· Fuel tank	Drain or Clean	6-25
· Water separator	Drain or Replace	6-26
· Fuel filter element	Replace	6-26
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
Engine air system		
· Air cleaner element(Primary, safety)	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