

## 4. MAINTENANCE CHECK LIST

### 1) DAILY SERVICE BEFORE STARTING

Check items	Service	Page
Visual check		
Fuel tank	Check, Refill	6-26
Hydraulic oil level	Check, Add	6-28
Engine oil level	Check, Add	6-18
Coolant level	Check, Add	6-20
Control panel & pilot lamp	Check, Clean	6-39
Water separator	Check, Drain	6-26
Fan belt tension	Check, Adjust	6-24

### 2) EVERY 50 HOURS SERVICE

Check items	Service	Page
Fuel tank	Drain	6-26
Track tension	Check, Adjust	6-34
Swing bearing	Lubricate	6-32
Swing reduction gear oil	Check, Add	6-31
Lubricate pin and bushing	Lubricate	6-38
• 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	6-31
Hydraulic return filter	Replace	6-30
Drain filter cartridge	Replace	6-30
Fuel filter	Replace	6-26
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	6-30
★ Pilot line filter	Replace	6-31
★ Element in hydraulic tank breather	Replace	6-30
★ Drain filter cartridge	Replace	6-30

**★ 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	Check, Add	6-39
Hydraulic oil return filter	Replace	6-29
Drain filter cartridge	Replace	6-30
☆ Swing reduction gear oil	Change	6-31
☆ Swing reduction grease	Check, Add	6-31
Pilot line filter	Replace	6-31
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		

★ 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	6-25
☆ Air cleaner element	Check, Clean	6-25
Fuel filter	Replace	6-26
Travel reduction gear oil	Check, Add	6-32
◆ Travel reduction gear oil	Change	6-33

☆ 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	6-33
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	6-29
· 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	6-26
· Water separator	Drain or Replace	6-26
· Fuel filter	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	Replace	6-25
Hydraulic system		
· Hydraulic oil	Add or Change	6-28
· Return filter	Replace	6-30
· Drain line filter	Replace	6-30
· Pilot line filter	Replace	6-31
· Element of breather	Replace	6-30
· Suction strainer	Clean	6-29
Undercarriage		
· Track tension	Check, Adjust	6-34
Bucket		
· Tooth	Replace	6-36
· Side cutter	Replace	6-36
· Linkage	Adjust	6-37
· Bucket assy	Replace	6-35
Air conditioner and heater		
· Fresh filter	Clean, Replace	6-42
· Recirculation filter	Clean, Replace	6-43