

## 4. MAINTENANCE CHECK LIST

### 1) DAILY SERVICE BEFORE STARTING

Check items	Service	Page
Visual check		
Fuel tank	Check, Refill	6-27
Hydraulic oil level	Check, Add	6-30
Engine oil level	Check, Add	6-19
Coolant level	Check, Add	6-21
Control panel & pilot lamp	Check, Clean	6-41
Prefilter	Check, Clean	6-28
Fan belt tension	Check, Adjust	6-25
★ Attachment pin and bushing	Lubricate	6-40
· 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		

★ Lubricate every 10 hours or daily for initial 100 hours.

### 2) EVERY 50 HOURS SERVICE

Check items	Service	Page
Fuel tank (water, sediment)	Drain	6-27
Track tension	Check, Adjust	6-36
Swing bearing grease	Lubricate	6-33
Swing reduction gear oil	Check, Add	6-33
Bucket linkage pin	Lubricate	6-37
· Bucket cylinder rod end		
· Bucket + Arm connecting		
· Bucket control link + Arm		
· Bucket control rod		

### 3) INITIAL 50 HOURS SERVICE

Check items	Service	Page
Engine oil	Change	6-19, 20
Engine oil filter	Replace	6-19, 20
Prefilter (water, element)	Replace	6-28
Fuel filter	Replace	6-27
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 200 HOURS SERVICE

Check items	Service	Page
★ Return filter	Replace	6-32
★ Pilot line filter	Replace	6-33
★ Drain filter cartridge	Replace	6-32

★ **Replace 3 filters for continuous hydraulic breaker operation only.**

### 5) INITIAL 250 HOURS SERVICE

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

## 6) EVERY 250 HOURS SERVICE

Check items	Service	Page
Battery (voltage)	Check, Clean	6-41
Aircon & heater fresh air filter	Check	6-44
Air breather element	Replace	6-32
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>		
Attachment pin and bushing	Lubricate	6-40
<ul style="list-style-type: none"> <li>· Boom cylinder tube end</li> <li>· Boom foot</li> <li>· Boom cylinder rod end</li> <li>· Arm cylinder tube end</li> <li>· Arm cylinder rod end</li> <li>· Boom + Arm connecting</li> <li>· Bucket cylinder tube end</li> </ul>		

## 7) INITIAL 500 HOURS SERVICE

Check items	Service	Page
Travel reduction gear oil	Change	6-34, 35

※ **Service the above item only for the new machine, and thereafter keep the normal service interval.**

### 8) EVERY 500 HOURS SERVICE

Check items	Service	Page
★Engine oil	Change	6-19, 20
★Engine oil filter	Replace	6-19, 20
Radiator, cooler fin and charge air cooler	Check, Clean	6-24
☆Air cleaner element (primary)	Check, Clean	6-26
Fuel filter element	Replace	6-28
Prefilter	Replace	6-28
Water filter (corrosion resister)	Replace	6-29

★ 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.

### 9) EVERY 1000 HOURS SERVICE

Check items	Service	Page
Travel motor reduction gear oil	Change	6-34, 35
Swing reduction gear oil	Change	6-33
Swing reduction gear grease	Change	6-33
Grease in swing gear and pinion	Change	6-34
Hydraulic oil return filter	Replace	6-32
Drain filter cartridge	Replace	6-32
Pilot line filter	Replace	6-33

### 10) EVERY 2000 HOURS SERVICE

Check items	Service	Page
Coolant	Change	6-21, 22, 23
Hydraulic tank suction strainer	Check, Clean	6-31
Hydraulic oil * <sup>1</sup>	Change	6-30

\*<sup>1</sup> Conventional hydraulic oil

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

### 11) EVERY 5000 HOURS SERVICE

Check items	Service	Page
Hydraulic oil * <sup>2</sup>	Change	6-30

\*<sup>2</sup> Hyundai genuine long life hydraulic oil

★ Change oil every 1000 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	6-27
· Prefilter	Clean or Replace	6-28
· Fuel filter element	Replace	6-28
Engine lubrication system		
· Engine oil	Change	6-19, 20
· Engine oil filter	Replace	6-19, 20
Engine cooling system		
· Coolant	Add or Change	6-21, 22, 23, 24
· Radiator	Clean or Flush	6-21, 22, 23, 24
· Charge air cooler	Check	6-24
· Water filter (corrosion resister)	Replace	6-29
Engine air system		
· Air cleaner element	Replace	6-26
Hydraulic system		
· Hydraulic oil	Add or Change	6-30
· Return filter	Replace	6-32
· Drain line filter	Replace	6-32
· Pilot line filter	Replace	6-33
· Element of breather	Replace	6-32
· Suction strainer	Clean	6-31
Under carriage		
· Track tension	Check, Adjust	6-36
Bucket		
· Tooth	Replace	6-38
· Side cutter	Replace	6-38
· Linkage	Adjust	6-39
· Bucket assy	Replace	6-39
Air conditioner and heater		
· Fresh air filter	Clean, Replace	6-44
· Recirculation filter	Clean	6-45