

## 4. MAINTENANCE CHECK LIST

### 1) DAILY SERVICE BEFORE STARTING

Check items	Service	Page
Visual check		
Fuel tank	Check, Refill	6-24
Hydraulic oil level	Check, Add	6-26
Engine oil level	Check, Add	6-17
Coolant level	Check, Add	6-19
Control panel & pilot lamp	Check, Clean	6-34
Water separator	Check, Drain	6-24
Fan belt tension	Check, Adjust	6-22
★ Attachment pins	Lubricate	6-41
· Boom cylinder head and rod		
· Boom connecting		
· Arm cylinder head and rod		
· Boom + Arm connecting		
· Bucket cylinder head		

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

### 2) EVERY 50 HOURS SERVICE

Check items	Service	Page
Fuel tank	Drain	6-24
Track tension	Check, Adjust	6-30
Swing bearing	Lubricate	6-28
Swing reduction gear grease	Lubricate	6-28
Lubricate pin and bushing	Lubricate	6-33
· Bucket cylinder rod		
· Arm + Bucket connecting		
· Arm + Link, Bucket control		
· Bucket control rod		
· Boom swing post + Upper frame connecting		
· Boom swing cylinder head and rod		
· Dozer blade + Lower frame connecting		
· Dozer blade cylinder head and rod		

### 3) INITIAL 50 HOURS SERVICE

Check items	Service	Page
Engine oil	Change	6-17, 18
Engine oil filter	Replace	6-17, 18
Pilot line filter	Replace	6-28
Hydraulic return filter	Replace	6-27
Fuel filter	Replace	6-25
Bolts & Nuts	Check, Tight	6-7
<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	6-27
★ Pilot line filter	Replace	6-28

★ **Replace 2 filters for continuous hydraulic breaker operation only.**

### 5) EVERY 250 HOURS SERVICE

Check items	Service	Page
★Engine oil	Change	6-17, 18
★Engine oil filter	Replace	6-17, 18
Battery (voltage)	Check	6-34
Bolts & Nuts	Check, Tight	6-7
<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 pins	Lubricate	6-41
<ul style="list-style-type: none"> <li>· Boom cylinder head and rod</li> <li>· Boom connecting</li> <li>· Arm cylinder head and rod</li> <li>· Boom + Arm connecting</li> <li>· Bucket cylinder head</li> </ul>		

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

### 6) INITIAL 250 HOURS SERVICE

Check items	Service	Page
Pilot line filter	Replace	6-28
Hydraulic oil return filter	Replace	6-27

### 7) EVERY 400 HOURS SERVICE

Check items	Service	Page
Fuel filter	Replace	6-25

### 8) EVERY 500 HOURS SERVICE

Check items	Service	Page
Radiator and cooler fin	Check, Clean	6-22
☆ Air cleaner element	Inspect, Clean	6-23
◆ Travel reduction gear oil	Change	6-29

- ☆ 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.

### 9) EVERY 1000 HOURS SERVICE

Check items	Service	Page
Travel motor reduction gear oil	Change	6-29
Hydraulic oil return filter	Replace	6-28
Pilot line filter	Replace	6-27

### 10) EVERY 2000 HOURS SERVICE

Check items	Service	Page
Coolant	Change	6-20, 21, 22, 23
Hydraulic oil * <sup>1</sup>	Change	6-26
Hydraulic tank suction strainer	Check, Clean	6-27

\*<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	6-26

\*<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	6-24
· Water separator	Drain or Replace	6-24
· Fuel filter	Replace	6-25
Engine lubrication system		
· Engine oil	Change	6-17, 18
· Engine oil filter	Replace	6-17, 18
Engine cooling system		
· Coolant	Add or Change	6-19, 20, 21, 22
· Radiator	Clean or Flush	6-19, 20, 21, 22
Engine air system		
· Air cleaner	Replace	6-23
Hydraulic system		
· Hydraulic oil	Add or Change	6-26
· Return filter	Replace	6-27
· Pilot line filter	Replace	6-28
· Suction strainer	Clean	6-27
Under carriage		
· Track tension	Check, Adjust	6-30
Bucket		
· Tooth	Replace	6-32
· Side cutter	Replace	6-31
· Linkage	Adjust	6-31
· Bucket assy	Replace	6-31
Heater		
· Heater filter	Clean	6-37