

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	6-30
Engine oil level	Check, Add	6-18
Coolant level	Check, Add	6-20
Control panel & pilot lamp	Check, Clean	6-44
Prefilter	Check, Clean	6-26
Fan belt tension & damage	Check, Adjust	6-24
★ Attachment pin and bushing	Lubricate	6-43
· 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	6-25
Swing bearing grease	Check, Add	6-33
Drive shaft grease (flange bearing)	Check, Add	6-34
Swing reduction gear oil	Check, Add	6-33
Transmission case oil	Check, Add	6-39
Wheel nuts	Check, Tighten	6-36
Tires (air pressure)	Check, Inflate	6-36
Front axle pivot pin bushing	Check, Lubricate	6-35
Lubricate pin and bushing	Lubricate	6-43
· Bucket cylinder rod end		
· Arm + Bucket connecting		
· Arm + Bucket control link		
· Bucket control rod		
· Bucket link connecting		
· Dozer blade cylinder (rod end, tub end)		6-35
· Dozer blade pivot pin		6-35
· Outrigger (pivot pin, cylinder pin)		6-35

3) INITIAL 50 HOURS SERVICE

Check items	Service	Page
Engine oil	Change	6-18, 19
Engine oil filter	Replace	6-18, 19
Prefilter (water, element)	Replace	6-26
Fuel filter element	Replace	6-27
Bolts & Nuts	Check, Tight	6-8
<ul style="list-style-type: none"> · Power train mounting bolts · Swing motor mounting bolts · Swing bearing mounting bolts · Engine mounting bolts · Counterweight mounting bolts · Turning joint locating bolts · Hydraulic pump mounting bolts 		

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

4) INITIAL 100 HOURS SERVICE

Check items	Service	Page
Transmission oil	Change	6-39

5) EVERY 200 HOURS SERVICE

Check items	Service	Page
★ Return filter	Replace	6-31
★ Pilot line filter	Replace	6-32
★ Drain filter cartridge	Replace	6-32

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

6) INITIAL 250 HOURS SERVICE

Check items	Service	Page
Swing reduction gear oil	Change	6-33
Swing reduction gear grease	Check, Add	6-33
Pilot line filter	Replace	6-32
Hydraulic return filter	Replace	6-31
Drain filter cartridge	Replace	6-32

7) EVERY 250 HOURS SERVICE

Check items	Service	Page
Battery (voltage)	Check	6-44
Aircon & heater fresh air filter	Check, Clean	6-48
Air breather element	Replace	6-32
Front axle steering case grease	Lubricate	6-35
Front & rear axle gear oil	Check, Add	6-37
Bolts & Nuts	Check, Tight	6-8
· Power train mounting bolts		
· Swing motor mounting bolts		
· Swing bearing mounting bolts		
· Engine mounting bolts		
· Counterweight mounting bolts		
· Turning joint locating bolts		
· Hydraulic pump mounting bolts		
Attachment pin and bushing	Lubricate	6-42
· 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		

8) INITIAL 500 HOURS SERVICE

Check items	Service	Page
Axle oil	Change	6-38

9) EVERY 500 HOURS SERVICE

Check items	Service	Page
★ Engine oil	Change	6-18, 19
★ Engine oil filter	Replace	6-18, 19
Prefilter	Change	6-26
Radiator, cooler fin and charge air cooler	Check, Clean	6-23
☆ Air cleaner element (primary)	Check, Clean	6-25
Fuel filter element	Replace	6-27

★ 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.

10) EVERY 1000 HOURS SERVICE

Check items	Service	Page
Swing reduction gear oil	Change	6-33
Swing reduction gear grease	Change	6-33
Grease in swing gear and pinion	Change	6-33
Transmission oil	Change	6-38
Hydraulic oil return filter	Replace	6-31
Pilot line filter	Replace	6-32
Drain filter cartridge	Replace	6-32
Axle oil	Change	6-37

11) EVERY 2000 HOURS SERVICE

Check items	Service	Page
Hydraulic tank		
★ Oil * ¹	Change	6-30
· Suction strainer	Check, Clean	6-31
Coolant	Change	6-20, 21, 22, 23

*¹ Conventional hydraulic oil

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

12) EVERY 5000 HOURS SERVICE

Check items	Service	Page
Hydraulic tank		
★ Oil * ²	Change	6-30

*² Hyundai genuine long life hydraulic oil

★ **Change oil every 1000 hours of continuous hydraulic breaker operation.**

13) 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
· Prefilter	Clean or Replace	6-26
· Fuel filter element	Replace	6-27
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
· Charge air cooler	Check	6-23
Engine air system		
· Air cleaner element	Replace	6-25
Hydraulic system		
· Hydraulic oil	Add or Change	6-30
· Return filter	Replace	6-31
· Drain filter cartridge	Replace	6-32
· Pilot line filter	Replace	6-32
· Air breather element	Replace	6-32
· Suction strainer	Clean	6-31
Tire pressure	Check, Inflate	6-36
Bucket		
· Tooth	Replace	6-41
· Side cutter	Replace	6-41
· Linkage	Adjust	6-40
· Bucket assy	Replace	6-40
Air conditioner and heater		
· Fresh filter	Clean, Replace	6-47
· Recirculation filter	Clean	6-48