

## 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    | 6-29 |
| Engine oil level             | Check, Add    | 6-18 |
| Coolant level                | Check, Add    | 6-20 |
| Control panel & pilot lamp   | Check, Clean  | 6-39 |
| Prefilter                    | Check, Clean  | 6-26 |
| Fan belt tension             | Check, Adjust | 6-24 |
| ★ Attachment 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   |               |      |

★ 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 |
| Track tension               | Check, Adjust | 6-34 |
| Swing bearing grease        | Lubricate     | 6-32 |
| Swing reduction gear oil    | Check, Add    | 6-32 |
| Attachment pin and bushing  | Lubricate     | 6-38 |
| · 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       | 6-18, 19 |
| Engine oil filter  | Replace      | 6-18, 19 |
| Prefilter (water, element)   | Replace      | 6-26     |
| Fuel filter  | Replace      | 6-27     |
| 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 200 HOURS SERVICE

| Check items              | Service | Page |
|--------------------------|---------|------|
| ★ Return filter          | Replace | 6-30 |
| ★ Pilot line filter      | Replace | 6-31 |
| ★ Drain filter cartridge | Replace | 6-31 |

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

### 5) INITIAL 250 HOURS SERVICE

| Check items              | Service | Page |
|--------------------------|---------|------|
| Pilot line filter        | Replace | 6-31 |
| Hydraulic return filter  | Replace | 6-30 |
| Drain filter cartridge   | Replace | 6-31 |
| Swing reduction gear oil | Change  | 6-32 |

## 6) EVERY 250 HOURS SERVICE

| Check items  | Service      | Page |
|--|--------------|------|
| Battery (voltage)  | Check, Clean | 6-39 |
| Aircon & heater fresh air filter   | Check        | 6-43 |
| Air breather element   | Replace      | 6-31 |
| 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    | 6-38 |
| <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  | 6-33 |

※ **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       | 6-18, 19 |
| ★Engine oil filter                         | Replace      | 6-18, 19 |
| 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     |
| Prefilter                                  | Replace      | 6-26     |

★ 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  | 6-33 |
| Swing reduction gear oil        | Change  | 6-32 |
| Grease in swing gear and pinion | Change  | 6-32 |
| Hydraulic oil return filter     | Replace | 6-30 |
| Drain filter cartridge          | Replace | 6-31 |
| Pilot line filter               | Replace | 6-31 |

### 10) EVERY 2000 HOURS SERVICE

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

\*<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 tank       |         |      |
| ★ 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   | 6-25             |
| · 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    | 6-29             |
| · Return filter            | Replace          | 6-30             |
| · Drain line filter        | Replace          | 6-31             |
| · Pilot line filter        | Replace          | 6-31             |
| · Element of breather      | Replace          | 6-31             |
| · Suction strainer         | Clean            | 6-30             |
| Under carriage             |                  |                  |
| · 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 air filter         | Clean, Replace   | 6-42             |
| · Recirculation filter     | Clean            | 6-43             |