

TROUBLESHOOTING GUIDE

1. ENGINE

※ This guide is not intended to cover every conditions, however many of the more common possibilities are listed.

| Trouble | Service | Remark |
|--|--|--------|
| The engine oil pressure lamp lights ON when engine speed is raised after completion of warm up. | <ul style="list-style-type: none"> · Add the oil to the specified level. · Replace the oil filter cartridge. · Check oil leakage from the pipe or the joint. · Replace the monitor. | |
| Steam is emitted from the top part of the radiator(The pressure valve). Coolant level warning lamp lights ON. | <ul style="list-style-type: none"> · Supply the coolant and check leakage. · Adjust fan belt tension. · Wash out inside of cooling system. · Clean or repair the radiator fin. · Check the thermostat. · Tighten the radiator cap firmly or replace the packing of it. · Replace the monitor. | |
| The engine does not start when the starting motor is turned over. | <ul style="list-style-type: none"> · Add fuel. · Repair where air is leaking into fuel system. · Check the injection pump or the nozzle. · Check the valve clearance. · Check engine compression pressure. | |
| Exhaust gas is white or blue. | <ul style="list-style-type: none"> · Adjust to specified oil quantity. · Replace with specified fuel. | |
| Exhaust gas occasionally turns black. | <ul style="list-style-type: none"> · Clean or replace the air cleaner element. · Check the nozzle. · Check engine compression pressure. · Clean or replace the turbocharger. | |
| Combustion noise occasionally changes to breathing sound. | <ul style="list-style-type: none"> · Check the nozzle. | |
| Unusual combustion noise or mechanical noise. | <ul style="list-style-type: none"> · Check with specified fuel. · Check over-heating · Replace the muffler. · Adjust valve clearance. | |

2. ELECTRICAL SYSTEM

| Trouble | Service | Remark |
|---|---|--------|
| Lamp does not glow brightly even when engine runs at high speed. Lamp flickers while engine runs. | <ul style="list-style-type: none"> · Check for loose terminals and open-circuit wiring. · Adjust belt tension. | |
| Battery charging lamp does not go out even when engine runs at high speed. | <ul style="list-style-type: none"> · Check the alternator. · Check and repair wiring. | |
| Unusual noise is emitted from the alternator. | <ul style="list-style-type: none"> · Check the alternator. | |
| Starting motor does not turn when starting switch is turned ON. | <ul style="list-style-type: none"> · Check and repair the wiring. · Charge the battery. · Check the starting motor. · Check the safety relay. | |
| The pinion of the starting motor keeps going in and out. | <ul style="list-style-type: none"> · Charge the battery. · Check the safety relay. | |
| Starting motor turns the engine sluggishly. | <ul style="list-style-type: none"> · Charge the battery. · Check the starting motor. | |
| The starting motor disengages before the engine starts up. | <ul style="list-style-type: none"> · Check and repair the wiring. · Charge the battery. | |
| The engine warming up lamp does not go ON. | <ul style="list-style-type: none"> · Check and repair wiring. · Check the monitor. | |
| The engine oil pressure lamp does not light up when engine is stationary(When the starting switch is in ON position.) | <ul style="list-style-type: none"> · Check the monitor. · Check the caution lamp switch. | |
| Battery charging lamp does not light up when the engine is stationary. (When the starting switch is in ON position.) | <ul style="list-style-type: none"> · Check the monitor. · Check and repair the wiring. | |

3. OTHERS

| Trouble | Service | Remark |
|---|--|--------|
| Track slip out of place. Excessive wear of the sprocket. | <ul style="list-style-type: none">· Adjust tension of track. | |
| Bucket either rises slowly or not at all. | <ul style="list-style-type: none">· Add oil to specified level. | |
| Slow speed of travel, swing, boom, arm and bucket. | <ul style="list-style-type: none">· Add oil to specified level. | |
| Unusual noise emitted from pump. | <ul style="list-style-type: none">· Clean the hydraulic tank strainer. | |
| Excessive oil temperature rise of hydraulic oil. | <ul style="list-style-type: none">· Clean the oil cooler.· Adjust fan belt tension.· Add oil to specified level. | |