

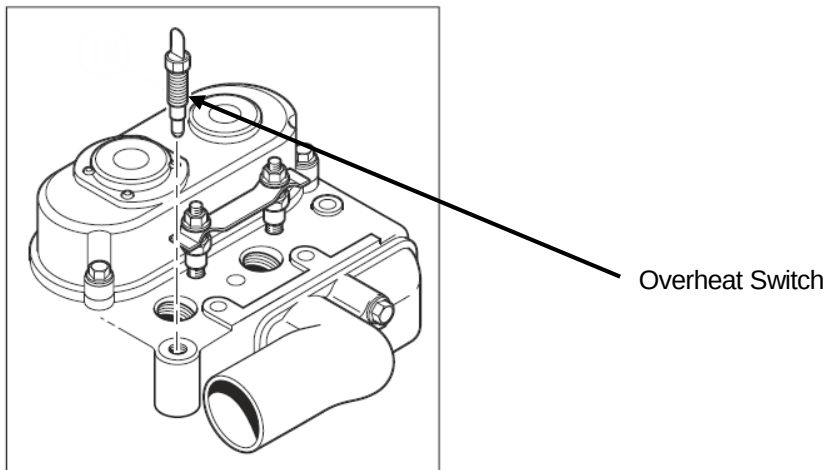
ComfortPro APU Kubota Diesel Engine Shutting Down for Overheating

This replaces TSB-538 Rev A and TSB-538 Rev B

Diagnostics may indicate that the system has detected an overheating condition.

If after verifying that there are no issues with the cooling system, check the operation of the current overheat switch part number 30-266-02K.

The overheat switch should open at 230°F (110°C) indicating an overheating condition. If the system shuts down for an overheat condition, using a suitable infrared thermometer, measure the temperature of the cylinder head near the overheat switch. If the reading is below 230°F, replace the switch. Typical switch failures will indicate an overheat condition with the cylinder head temperature in the 150°F to 185°F (65°C to 82°C) range.



When installing the replacement switch, the torque spec is 5 to 8 Ft/Lbs ON a **COOLED** down engine. If the engine is warm, the switch installation depth will be too low and will increase the likelihood of damaging the switch.

Use hand tools only. Do not exceed the torque spec.

Overtightening the switch may result in damage to the switch.

If the unit returns with a second failed overheat switch, a Over Heat Switch Retrofit Kit (30-G22-62K) is available to relocate the switch to a different location.

ComfortPro APU Kubota Diesel Engine Shutting Down for Overheating

Over Heat Switch Retrofit Kit

The kit **30-G22-62K** includes a replacement switch, a new thermostat housing and gasket, an extension harness with split loom and 2 tie straps.



Disconnect the harness from the existing Over Heat switch. Leave the existing Temp switch mounted in the cylinder head. Cut the harness wire at the approximate location shown. Strip the existing wire back about 3/8 of an inch of insulation and crimp the supplied extension harness to the existing harness. Using a heat gun, heat up heat shrink tube splices until the mastic squeezes out of the ends



Remove the bleeder fitting from its current location and replace with the new overheat switch, torque spec is 9 to 11 Ft/Lbs, do not use any additional sealant. Remove the existing thermostat housing and replace with the new housing. Use the constant tension spring clamps on each end of the hose. Install the bleeder fitting into the housing as shown using a suitable thread sealant, tighten until snug.

New Overheat Switch

Relocated Bleeder

ComfortPro APU Kubota Diesel Engine Shutting Down for Overheating



Install the split loom and route the harness to the switch, secure loom ends with shop supplied electrical tape. Secure harness loom with tie straps as shown to engine. Apply di-electric grease to electrical connection to help prevent corrosion.

Note: the original overheat switch can remain in the cylinder head in order to plug the port.

Tie Straps

Start APU, bleed out air and top up the cooling system. Let the APU run for at least one hour to confirm the system is working OK and that there are no coolant leaks.

Standard Repair Time (SRT Code TSB-545) is 45 min / 0.75 hour.