
IMPORTANT DYNASYS™ TECHNICAL SERVICE BULLETIN

TSB – 05282013-1

To:

Dealers & Service Managers

Re:

Installation of an Engine Head Temperature Sensor

Affected Units:

All Dynasys APU serial numbers from G1D13308 and lower

Notice:

Hodyon, the makers of the Dynasys APU, recently identified a set of circumstances whereby the engine can overheat, potentially resulting in extensive engine damage.

The previous APU design had limited redundancy in place to protect against engine overtemp situations. The addition of an engine block temperature switch should protect the engine in cases of extreme overheat. When the block reaches a designated temperature threshold, the switch will cut fuel to the engine and force the engine to shut down.

Remedy:

The addition of an over temperature switch jumper is designed to provide adequate system redundancy to protect the engine against overtemp events. The over temperature switch will open when the temperature sees 123C+/-3C. The switch jumper will be connected in between the main APU harness and fuel solenoid.

The following documentation details the technical repair process and the associated install instructions.

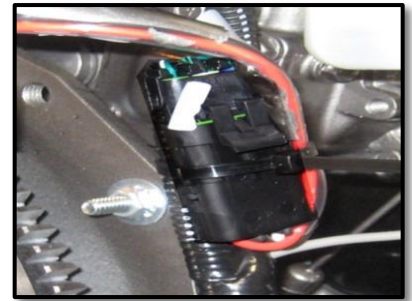
Allocated Standard Repair Time:

Repair Description	SRT Time (hrs.)
Installation of TSB kit 55-8502, which includes the installation of an overtemp jumper harness	0.75

Total Allocated: 0.75

Instructions:

Remove front APU engine door and upper cover panel assemblies.
Locate the Fuel Hold Solenoid connector next to the fly wheel; cut the retaining zip tie from the OEM flex plate mounting hole.
Disconnect the weather pack connections between the fuel hold solenoid and the engine harness.



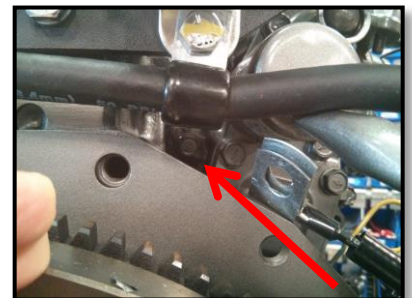
Locate the overtemp sensor jumper harness.



Insert temp switch end into mounting clamp & close.
Inspection and process notes: do not spread the clamp open as this may result in the temp sensor coming loose from the clamp.



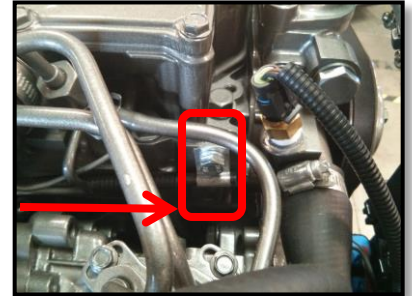
Feed the clamped block temp switch behind the OEM flex plate, under the fuel hold solenoid.



Feed the mounting bolt through the lock washer, and through both ends of the sensor clip.



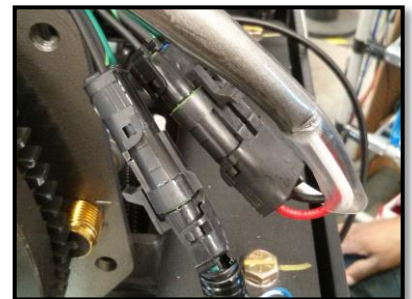
Route the engine overtemp sensor to the cylinder head. Attach the sensor using the supplied mounting bolt and lock washer. Use a 13mm wrench to secure p-clamp in place.



Connect the fuel solenoid weather pack to the temperature sensor.



Connect the temperature sensor weather pack to the engine harness connection.



Fasten engine harness, solenoid wire, and temperature sensor jumper harness to the OEM flex plate; verify harnesses will not rub against the fly wheel. Operate the APU engine assembly prior to reinstallation of panels to verify correct APU engine performance and operation. Re-install upper and front door panels.



Contact Technical Services for questions regarding the rework process or to report any issues