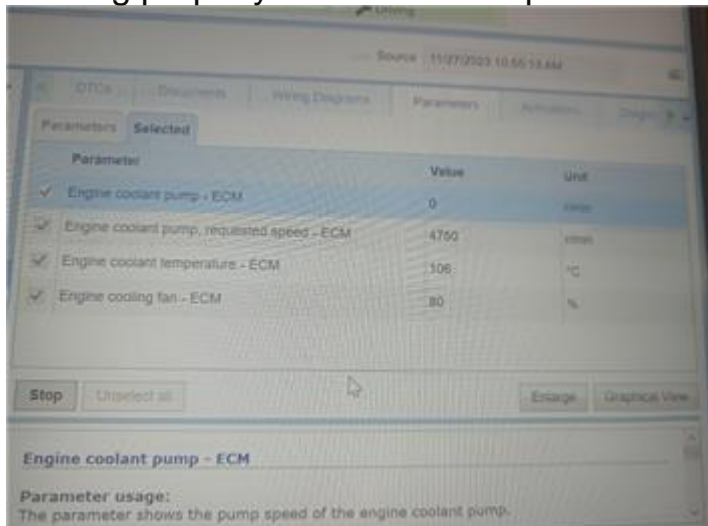


■ Fault symptom

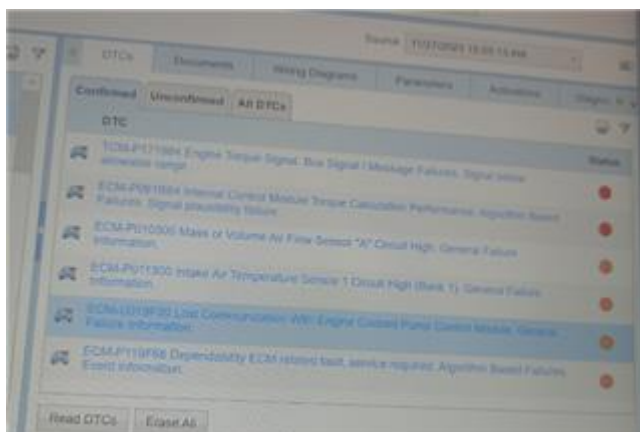
A KX11 vehicle had an engine overheating fault during PDI.

■ Fault diagnosis process

1. Upon inspection, it was found that the engine was not experiencing false overheating, but rather actual overheating. The technician checked the data stream of the EMS such as the actual speed of the water pump, target speed of the water pump, cooling fan speed, and coolant temperature data stream, and discovered that the fan is working properly but the actual speed of the water pump is 0.



2. Read the fault codes and find that the water pump related fault codes U019F00, ECM lost communicate with coolant pump module



3. Check the circuit diagram related to the water pump. Firstly, check the fuse EF60 found OK. Secondly, check the wiring from the fuse to water pump. During checking, it was found that there were traces of water ingress and oxidation inside the connector of the fuse box.

