

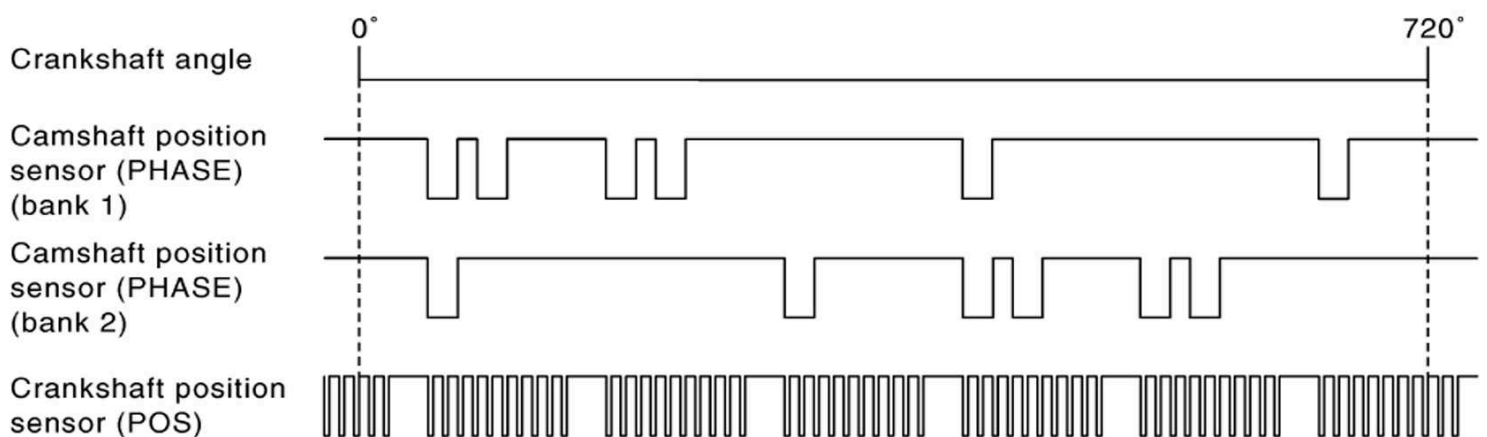
correct

NISSAN VQ37
DTC P0340 / P0345

encoder slipped -10 cam deg.



Nissan VQ37 intake cam (VVEL) position encoder ring is pressed on. Unit on right has shifted at the press fit in the retarded direction by 10 degrees (20 deg crank). Symptoms: Engine stopped running and a DTC code for the cam sensor was logged. The engine would not restart without unplugging the sensor, which forces the ECU to attempt to run in a fail safe mode using only the crank and the other banks cam sensor. If the sensor is plugged back in while running, it will continue to run in fail-safe mode. The ECU will continue to ignore the failed sensor until the DTC is cleared, which will then cause the ECU to attempt to use the bad signal and again cause the engine to die.



NOTE: Camshaft position sensor (PHASE) signal timing varies with intake valve timing control.

INSPECT CAM ENCODER POSITIONS AS SHOWN ABOVE BY REMOVING SENSORS.

ROTATE ENGINE APPROXIMATELY 40 ATDC UNTIL A TOOTH IS IN EACH SENSOR HOLE. IF ONE IS NOTICEABLY LATE THE ENCODER RING MAY HAVE SLIPPED.