

1999 XK RANGE - Electronic Engine Controls - 303-14

Diagnostic	Engine Speed	Vehicle Speed	Mass Air Flow (grams/second)	Time to Completion
Catalyst Monitor	1100 to 1600 rpm	50 to 72 kph (31 to 45 mph)	5 to 30 g/s	23 seconds
HO2S	600 to 2500 rpm	29 to 113 kph (18 to 70 mph)	4 to 16 g/s	Fuel cut for more than 10 seconds, but less than 30 seconds *
Catalyst Monitor Sensor	N/A	N/A	10 to 90 g/s	140 seconds
Fuel System	N/A	N/A	More than 6 g/s	33 seconds
AACV	N/A	61 to 121 kph (38 to 75 mph)	4 to 16 g/s	Fuel cut for 2 seconds *
P/N switch	1800 to 2200 rpm	80 to 101 kph (50 to 63 mph)	N/A	31 seconds
Evaporative emissions	N/A	48 to 89 kph (30 to 55 mph) and idle	Refer to drive cycles for leak tests in this section	Refer to drive cycles for leak tests in this section

2. During the drive cycle, drive gently, avoiding hard acceleration, braking or cornering and rough roads.
 1. Drive at 84 to 97 kph (52 to 60 mph) for 40 seconds.
 2. Accelerate to 113 kph (70 mph).
 3. Close the throttle, (ideally at the start of a descent) continue with closed throttle for 10 seconds. (* Fuel cut)
 4. Drive at 56 to 64 kph (35 to 40 mph), holding the throttle as steady as possible, on a flat level road for 30 seconds minimum.

Drive Cycle for 40 thou leak test

1. Make sure the 'conditions for adaptation' detailed at the start of this section are met.
 1. Avoiding high engine loads, drive the vehicle steadily between 48 and 89 kph (30 and 55 mph) for 15 to 20 minutes after starting the engine. (Depending on the amount of fuel vapor generated, the test may take longer than this).
 2. Where possible, avoid body roll to minimise fuel movement.
 3. If the scan tool being used is able to read TIDs, check TID 08 in mode 6. If the test has not completed, this TID will display '0'. Any other value indicates that the test has successfully completed.
 4. If the test has not completed, the drive cycle must be repeated.
 5. If the scan tool being used is not able to read TIDs, the only way to confirm that the test has run is to check for P1111 after running the 20 thou test, where applicable.