

DIAGNOSIS SYSTEM (ECM)

< SYSTEM DESCRIPTION >

[VQ37VHR]

Monitored item	Unit	Description	Remarks
SYSTEM 1 DIAGNOSIS B B2	ABSNT/PRSNT	<ul style="list-style-type: none"> Indicates DTC P219B self-diagnosis condition. ABSNT: Self-diagnosis standby PRSNT: Under self-diagnosis 	
SYSTEM 1 DIAGNOSIS B B1	ABSNT/PRSNT	<ul style="list-style-type: none"> Indicates DTC P219A self-diagnosis condition. ABSNT: Self-diagnosis standby PRSNT: Under self-diagnosis 	

*: The item is indicated, but not used.

NOTE:

Any monitored item that does not match the vehicle being diagnosed is deleted from the display automatically.

WORK SUPPORT MODE

Work Item

WORK ITEM	CONDITION	USAGE
IDLE AIR VOL LEARN	<ul style="list-style-type: none"> The idle air volume that keeps the engine within the specified range is memorized in ECM. 	When learning the idle air volume
EVAP SYSTEM CLOSE*	<p>Close the EVAP canister vent control valve in order to make EVAP system close under the following conditions.</p> <ul style="list-style-type: none"> Ignition switch ON Engine not running Ambient temperature is above 0°C (32°F). No vacuum and no high pressure in EVAP system Fuel tank temp. Is more than 0°C (32°F). Within 10 minutes after starting "EVAP SYSTEM CLOSE" When trying to execute "EVAP SYSTEM CLOSE" under the condition except above, consult will discontinue it and display appropriate instruction. <p>NOTE: When starting engine, consult may display "BATTERY VOLTAGE IS LOW. CHARGE BATTERY", even when using a charged battery.</p>	When detecting EVAP vapor leak in the EVAP system
FUEL PRESSURE RELEASE	<ul style="list-style-type: none"> Fuel pump will stop by touching "START" during idling. Crank a few times after engine stalls. 	When releasing fuel pressure from fuel line
SELF-LEARNING CONT	<ul style="list-style-type: none"> The coefficient of self-learning control mixture ratio returns to the original coefficient. 	When clearing mixture ratio self-learning value
TARGET IDLE RPM ADJ*	<ul style="list-style-type: none"> Idle condition 	When setting target idle speed
TARGET IGN TIM ADJ*	<ul style="list-style-type: none"> Idle condition 	When adjusting target ignition timing
VIN REGISTRATION	<ul style="list-style-type: none"> In this mode, VIN is registered in ECM. 	When registering VIN in ECM
CLSD THL POS LEARN	<ul style="list-style-type: none"> Ignition on and engine stopped. 	When learning the throttle valve closed position
VVEL POS SEN ADJ PREP	<ul style="list-style-type: none"> Use this item only when replacing VVEL actuator sub assembly. Ignition on and engine stopped. 	When adjusting VVEL control shaft position sensor
SAVING DATA FOR REPLC CPU	<p>In this mode, save data that is in ECM.</p>	When ECM replaced.
WRITING DATA FOR REPLC CPU	<p>In this mode, write data stored by "SAVING DATA FOR REPLC CPU" in work support mode to ECM.</p>	When ECM replaced.

*: This function is not necessary in the usual service procedure.

ACTIVE TEST MODE

Test Item