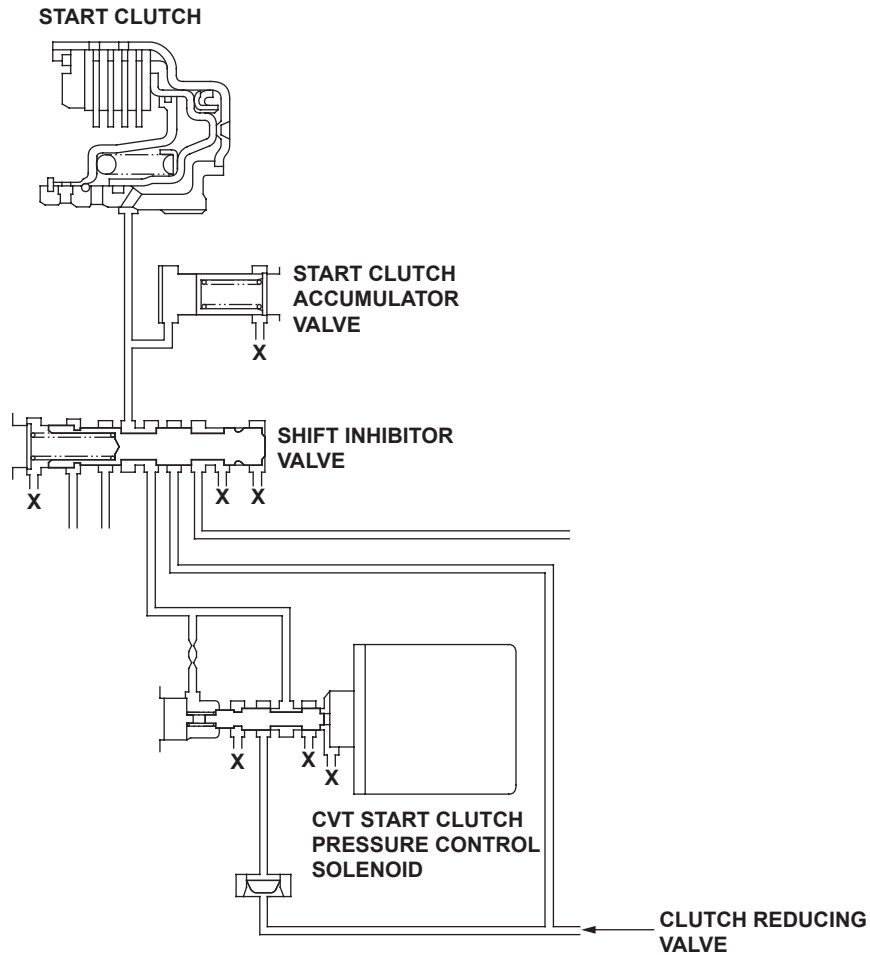


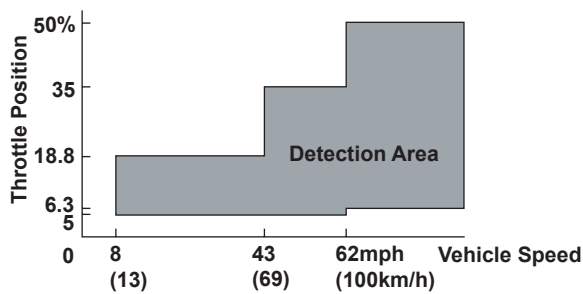
Advanced Diagnostics

DTC P1891: Problem in Start Clutch Control System

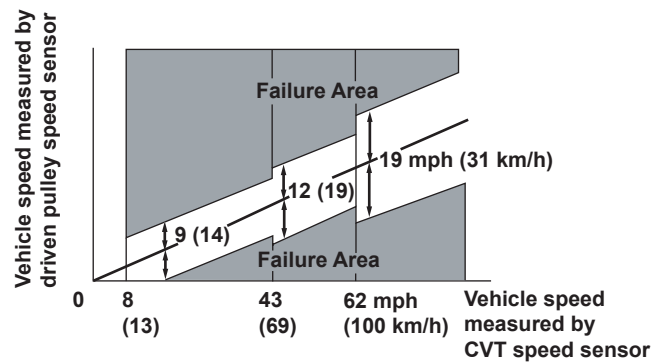


P1891-0176

Graph 1: Detection Area



Graph 2: Failure Area



P1891-9875

General Description

The start clutch control system controls the clutch piston hydraulic pressure which affects the amount of power transmission by the multiplate wet start clutch on the driven pulley shaft. The transmission control module (TCM) activates the CVT start clutch pressure control solenoid to control the hydraulic pressure that is applied to the start clutch piston in accordance with vehicle conditions. The start clutch control system detects the overslip of the clutch. If the difference between the vehicle speed measured by the driven pulley speed sensor and one measured by the CVT speed sensor is excessive when driving the vehicle under Enable Conditions, a malfunction, excessive clutch slippage is detected and a DTC is stored.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Under the Enable Conditions
Sequence	None
Duration	10 seconds
DTC Type	One drive cycle, MIL ON, D indicator blinks

Enable Conditions

Condition	Minimum	Maximum
Vehicle speed measured by the CVT speed sensor	8 mph (13 km/h)	—
Engine speed	600 rpm	6,800 rpm
Shift lever position	D or L	
Others	The vehicle speed measured by the CVT speed sensor is equal to the vehicle speed	
	Both the vehicle speed and throttle position are in the Detection Area shown in Graph 1	

Malfunction Threshold

The deviation in each vehicle speed measured by the CVT speed sensor and the driven pulley speed sensor is in the Failure Area shown in Graph 2 for at least 10 seconds when the relationship between the vehicle speed and the throttle position is as shown in Graph 1.

Driving Pattern

Start the engine. Drive the vehicle at a speed of 8 mph (13 km/h) or more with the engine speed at 600 - 6,800 rpm in D or L position for at least 10 seconds. In addition, make sure the vehicle speed and the throttle position are in the Detection Area shown in Graph 1.

- If you have difficulty duplicating the DTC, retest after turning off electrical components such as the audio system and the A/C.
- Drive the vehicle in this manner only if the traffic regulations and ambient conditions allow.

Diagnosis Details

Conditions for illuminating the MIL

When a malfunction is detected, the MIL comes on and the DTC and the freeze frame data are stored.

Conditions for clearing the MIL

The MIL, the DTC, and the freeze frame data can be cleared by using the scan tool Clear command or by disconnecting the battery.