

## FAIL-SAFE FUNCTION [FN4A-EL]

B3E050219090T06

• In the fail-safe function, minimum vehicle drivability is obtained by changing the signals that are determined to be malfunctions by the malfunction detection function to the preset values, and limiting PCM control.

DTC No.	On-board diagnostic function	Detection condition	Fail-safe	TCC
P0500	VSS circuit malfunction (ATX)	• No VSS signal is input to PCM terminal 1AY when and engine coolant temperature is <b>60 °C {140 °F} or more</b> , input/turbine speed sensor signal is <b>above 1,500 rpm</b> and selector lever position is at D or M range.	N/A	Enabled
P0706	Transaxle range (TR) switch circuit range/performance	• No TR signal (P, R, N or D range/position) input to PCM terminal 1X when the engine speed is <b>530 rpm or more</b> , vehicle speed is <b>20 km/h {12 mph} or more</b> and voltage at PCM terminal 1X is <b>0.5 V or more</b> .	• Inhibits gear shifting and maximizes line pressure	Disabled
P0707	Transaxle range (TR) switch circuit low input	• Input voltage from the TR switch to PCM terminal 1X is <b>0.5 V or less</b> when the engine speed is <b>530 rpm or more</b> and vehicle speed is <b>20 km/h {12 mph} or more</b> .	• Inhibits gear shifting and maximizes line pressure	Disabled
P0708	Transaxle range (TR) switch circuit high input	• Input voltage from the TR switch to PCM terminal 1X is <b>4.79 V or more</b> when the engine speed is <b>530 rpm or more</b> and vehicle speed is <b>20 km/h {12 mph} or more</b> .	• Inhibits gear shifting and maximizes line pressure	Disabled
P0711	Transaxle fluid temperature (TFT) sensor circuit range/performance (Stuck)	• Input voltage from the TFT sensor to PCM terminal 1AU and 1AN is maintained at <b>0.06 V or less</b> when <b>180 s</b> have passed after the engine is started and the vehicle is driven for <b>150 s or more</b> at vehicle speed <b>between 25 and 59 km/h {15 and 36 mph}</b> , and then <b>60 km/h {37 mph} or more</b> for <b>100 s or more</b> .	N/A	Disabled
P0712	Transaxle fluid temperature (TFT) sensor circuit malfunction (short to ground)	• Input voltage from the TFT sensor to PCM terminal 1AU and 1AN is maintained at <b>0.06 V or less</b> when the vehicle speed is <b>20 km/h {12 mph} or more</b> .	• Sets temperature to cold condition	Disabled
P0713	Transaxle fluid temperature (TFT) sensor circuit malfunction (open circuit)	• Input voltage from the TFT sensor to PCM terminal 1AU and 1AN is maintained at <b>4.67 V or more</b> when vehicle speed is <b>20 km/h {12 mph} or more</b> .	• Sets temperature to cold condition	Disabled
P0715	Input/turbine speed sensor circuit malfunction	• No input/turbine speed sensor signal to PCM terminals 1K and 1O when the vehicle speed is <b>40 km/h {25 mph} or more</b> and selector lever position is at D or M range.	• Inhibits 4GR	Disabled
P0731	Gear 1 incorrect (incorrect gear ratio detected)	• Revolution ratio of the forward clutch drum revolution to differential gear case revolution is <b>2.16 or less</b> while in 1GR.	• Inhibits 1GR and maximizes line pressure	Enabled
P0732	Gear 2 incorrect (incorrect gear ratio detected)	• Revolution ratio of the forward clutch drum revolution to differential gear case revolution is <b>1.25 or less</b> or <b>2.16 or more</b> while in 2GR.	• Inhibits 2GR and maximizes line pressure	Enabled
P0733	Gear 3 incorrect (incorrect gear ratio)	• Revolution ratio of the forward clutch drum revolution to differential gear case revolution	N/A	Enabled

	detected)	is <b>0.86 or less</b> or <b>1.25 or more</b> while in 3GR.		
P0734	Gear 4 incorrect (incorrect gear ratio detected)	• Revolution ratio of the forward clutch drum revolution to differential gear case revolution is <b>0.6 or less</b> or <b>1.25 or more</b> while in 4GR.	• Inhibits 4GR and maximizes line pressure	Disabled
P0741	Torque converter clutch (TCC) (stuck off)	• Difference between the engine speed and turbine speed is <b>more than 100 rpm</b> while TCC is operating.	• Inhibits TCC and maximizes line pressure	Disabled
P0742	Torque converter clutch (TCC) (stuck on)	• Difference between the engine speed and turbine speed is <b>50 rpm or less</b> while TCC is not operating.	• Inhibits TCC and maximizes line pressure	Disabled
P0745	Pressure control solenoid malfunction	• Voltage is stuck at <b>0 V</b> or <b>B+</b> at pressure control solenoid control terminal 1AF of the PCM when the solenoid valve operates according to PCM calculation.	N/A	Enabled
P0751	Shift solenoid A stuck off	• Revolution ratio of the forward clutch drum revolution to differential gear case revolution is <b>within 0.91-1.09</b> in 4GR and DTCs not output	• Inhibits 4GR and TCC and maximizes line pressure	Disabled
P0752	Shift solenoid A stuck on	• Input/turbine speed sensor signal is <b>187.5 rpm or above</b> in D range	• Inhibits 1GR, 2GR, and 3GR and maximizes line pressure	Enabled
P0753	Shift solenoid A malfunction (electrical)	• Voltage is stuck at <b>0 V</b> or <b>B+</b> at shift solenoid A control terminal 1AZ of the PCM when the solenoid valve operates according to PCM calculation.	• Inhibits 4GR and TCC and maximizes line pressure	Disabled
P0756	Shift solenoid B stuck off	• Revolution ratio of the forward clutch drum revolution to differential gear case revolution is <b>2.157 or less</b> in 1GR and DTCs not output.	• Inhibits 1GR and 4GR and maximizes line pressure	Enabled
P0757	Shift solenoid B stuck on	• Revolution ratio of the forward clutch drum revolution to differential gear case revolution is <b>1.249 or less</b> or <b>more than 2.157</b> in D range 2GR.	• Inhibits 2GR and 4GR and maximized line pressure	Enabled
P0758	Shift solenoid B malfunction (electrical)	• Voltage is stuck at <b>0 V</b> or <b>B+</b> at shift solenoid B control terminal 1BH of the PCM when the solenoid valve operates according to PCM calculation.	• Inhibits 1GR and 4GR and maximizes line pressure	Enabled
P0761	Shift solenoid C stuck off	• Revolution ratio of the forward clutch drum revolution to differential gear case revolution is <b>2.157 or less</b> in D range 1GR and 2GR.	• Inhibits 1GR and 2GR and maximizes line pressure	Enabled
P0762	Shift solenoid C stuck on	• Revolution ratio of the forward clutch drum revolution to differential gear case revolution is <b>0.863 or less</b> or <b>1.249 or more</b> in D range 3GR. • Revolution ratio of the forward clutch drum revolution to differential gear case revolution is <b>0.6 or less</b> or <b>1.249 or more</b> in D range 4GR.	• Inhibits 3GR and 4GR and maximizes line pressure	Enabled
P0763	Shift solenoid C malfunction (electrical)	• Voltage is stuck at <b>0 V</b> or <b>B+</b> at shift solenoid C control terminal 1BD of the PCM when the solenoid valve operates according to PCM calculation.	• Inhibits 1GR and 2GR and maximizes line pressure	Enabled
P0766	Shift solenoid D stuck off	• Revolution ratio of the forward clutch drum revolution to differential gear case revolution is <b>0.6 or less</b> or <b>0.863 or more</b> in D range 4GR.	• Inhibits 4GR and maximizes line pressure	Enabled

P0767	Shift solenoid D stuck on	• Revolution ratio of the forward clutch drum revolution to differential gear case revolution is <b>0.863 or less</b> or <b>1.249 or more</b> in D range 3GR.	• Inhibits 2GR, 4GR, and TCC and maximizes line pressure	Disabled
P0768	Shift solenoid D malfunction (electrical)	• Voltage is stuck at <b>0 V</b> or <b>B+</b> at shift solenoid D valve control terminal 1AJ of the PCM when the solenoid valve operates according to PCM calculation.	• Inhibits 4GR and maximizes line pressure	Enabled
P0771	Shift solenoid E stuck off	• Difference between engine speed and turbine speed is <b>more than 100 rpm</b> while driving in 4GR is at D range during TCC operation.	• Inhibits TCC and maximized line pressure	Disabled
P0772	Shift solenoid E stuck on	• Difference between the engine speed and turbine speed is <b>50 rpm or less</b> while driving in 4GR at D range while TCC is not operating.	• Inhibits 1GR and maximizes line pressure	Enabled
P0773	Shift solenoid E malfunction (electrical)	• Voltage is stuck at <b>0 V</b> or <b>B+</b> at shift solenoid E control terminal 1AR of the PCM when the solenoid valve operates according to PCM calculation.	• Inhibits TCC and maximized line pressure	Disabled
P0894	Forward clutch torque transmission	• Turbine speed does not fall to less than <b>187 rpm 3 s or more</b> after starting the engine with the vehicle in the D or M range and stopped (brake applied).	• Driving restricted to 4GR	Enabled