

# HICAS Diagnostic Procedure

## 1. Input starting conditions for self-diagnosis.

- \* Turn ignition switch "OFF".
- \* Set shift lever to "P" or "N" (autobox) or "Neutral" (manual).
- \* Turn ignition switch "ON".
- \* Immediately start engine.
- \* Turn steering wheel from left to right (at least 20deg from the neutral position) 5- times or more, then depress foot brake pedal at least 5- times all within 10- seconds after ignition switch has been turned "ON".

## 2. Input self-diagnosis item.

- \* Depress and release foot brake pedal.
- \* Turn steering wheel from left to right (at least 20deg) from the neutral position.

Then – (M/T model):

Depress clutch pedal and move gear shift lever to any position other than Neutral and return to Neutral. Release clutch pedal.

(A/T model):

Disengage and engage parking brake lever. Move shift lever to any position other than Neutral or Parking and return to Parking.

\* Move car at least 3 meters (10ft) forward and proceed at indicated speed of at least 1mph to access self-diagnosis mode.

3. **Self Diagnosis Mode and Codes** - After doing points 1 & 2 the self-diagnosis mode will then make the "HICAS" warning lamp come on in a series on flashes.

- \* When all systems are normal HICAS warning lamp flashes at 0.25 second intervals.
- \* When there is a system malfunction the HICAS lamp pulses (I tried to translate them to words below)

Note 1: To change the display mode to "A", turn OFF ignition switch after mode "B" is displayed. When battery is insufficient, mode "B" is displayed.

Note 2: If fail-safe system was operated (fail-safe valve is operating) when ignition switch was turned OFF for the last time, mode A will be displayed. If fail-safe system was not operated when the ignition switch was turned OFF for the last time, mode B will be displayed.

### Mode A)

10 short pulses for 5 seconds.

No pulses for 5 seconds.

Nine 2-second interval indicating the system status (18 seconds total).

(short pulse = good, 1 second pulse=bad)

- 1) HICAS Solenoid R.H.
- 2) HICAS Solenoid L.H.
- 3) Fail-Safe Valve
- 4) (Constantly normal mode)
- 5) Vehicle Speed Sensor
- 6) Steering Angle Sensor
- 7) Steering Neutral Position Sensor
- 8) A/T: Parking brake sensor - M/T: Clutch Sensor
- 9) A/T: Inhibitor Sensor - M/T: Neutral Sensor

\*\*\*Display repeats until ignition switch is turned "OFF" or 5 min has past.\*\*\*

## Mode B)

Lamp on for 5 seconds.

No pulses for 5 seconds.

Nine 2-second interval indicating the system status (18 seconds total).

(short (0.1 sec) pulse = good, 1 second pulse=bad)

- 1) HICAS Solenoid R.H.
- 2) HICAS Solenoid L.H.
- 3) Fail-Safe Valve
- 4) (Constantly normal mode)
- 5) Vehicle Speed Sensor
- 6) Steering Angle Sensor
- 7) Steering Neutral Position Sensor
- 8) A/T: Parking brake sensor - M/T: Clutch Sensor
- 9) A/T: Inhibitor Sensor - M/T: Neutral Sensor

\*\*\*Display repeats until ignition switch is turned "OFF" or 5 min has past.\*\*\*

## Cancelling the self-diagnosis function

These three methods will Cancel the Diagnostics

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- 1) By turning the ignition switch off.
- 2) After self-diagnosis has been operated for over 5 minutes.
- 3) If the vehicle speed goes over 19 mph.

Many Thanks to [Lozza150](#) for writing the How-to!