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## Advanced Fast Idle System Diagnostics

**Chevy GMT 610 – 6.0L 2003→2004 – AFIS601G-60**

**Chevy GMT 610 – 6.0L 2005→2006 – AFIS602G-60**

**Chevy GMT 560 – 8.1L 2003→2005 – AFIS601G-81**

**Chevy GMT 560 – 8.1L 2006 – AFIS605G-81**

**Chevy GMT 560 – 6.6L 2003→2005 – AFIS601D-66**

**Before beginning diagnostics make sure the technician has thoroughly reviewed the AFIS installation instructions as well as the AFIS operating instructions. Both are available by contacting InterMotive at 530-346-1801.**

**LED's don't proveout on initial start-up.**

Ensure LED harness is fully seated in AFIS module.

Ensure 6 Pin connector is fully seated in AFIS module.

Ensure proper connection of 16 pin connector at the vehicle Data Link.

**LED's proveout but vehicle will not enter, or does not complete Fast Idle mode**

Verify all safety conditions are met.

Check for Diagnostic Trouble Codes.

To display Diagnostic Trouble Codes on the Fast Idle (green) LED, the technician must turn off the vehicle ignition, continuously press the manual engage switch while turning the ignition back on. Keep the switch pressed until the red and green LED's turn on and then off. The switch can now be released and codes can be retrieved. A code is displayed by flashing the first digit, waiting one second, flashing the second digit, and then waiting four seconds before another code is displayed. For example if the Diagnostic Trouble Code was 52, the green LED would flash five times, be turned off for one second, flash two more times, and then remain off for four seconds. The codes and their descriptions are displayed below.

<b>Code</b>	<b>Description</b>
11	Safety Conditions Met, ready for Fast Idle Operation
12	Safety Conditions Met, Fast Idle Operation in Progress
13	Safety Conditions Met, Fast Idle Operation Complete due to 15 Minute Timeout
15	Safety Conditions Met, Fast Idle Operation Complete due to Park Brake
16	Safety Conditions Met, Fast Idle Operation Complete due to RPM
17	Safety Conditions Met, Fast Idle Operation Complete due to Park Signal
18	Safety Conditions Met, Fast Idle Operation Complete due to Service Brake
22	RPM Value too Low
24	RPM Value too High
33	Park Signal Incorrect
35	Service Brake Signal Incorrect
37	Park Brake Signal Incorrect

If codes are received check all connections in the AFIS system.

**Vehicle intermittently drops out of Fast Idle mode, but works properly now**

Check for Fast Idle Stop Codes.

To aid in troubleshooting intermittent concerns, the AFIS system stores the last five Fast Idle Stop Codes in non-volatile memory. Thus if a Fast Idle operation terminates unexpectedly, the technician can determine the cause. To initiate this feature, turn on vehicle ignition, wait until LED's proveout, and then press and hold the manual-engage switch continuously for at least five seconds. The red and green LED's will flash after 5 seconds. Release the switch and the five most recent stop codes will be read sequentially from the most recent to the oldest. A code is displayed by flashing the first digit, waiting one second, flashing the second digit, and then waiting four seconds before another code is displayed. For example if the Fast Idle Stop Code was 18, the green LED would flash one time, be turned off for one second, flash eight more times, and then remain off for four seconds. After the codes have been displayed, the LED's flash and normal operation resumes. The Fast Idle Stop Codes and their descriptions are listed below.

<b>Code</b>	<b>Description</b>
13	Fast Idle Operation Complete due to 15m Timeout
15	Fast Idle Operation Complete due to Park Brake
16	Fast Idle Operation Complete due to RPM
17	Fast Idle Operation Complete due to Park Signal
18	Fast Idle Operation Complete due to Service Brake

If codes are received check all connections in the AFIS system.

If further assistance is required, contact InterMotive at (530)346-1801. Be sure to write down any Diagnostic Trouble Codes or Fast Idle Stop Codes received so that you can provide them to the InterMotive Engineer.