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## Advanced Fast Idle System II - AFIS605D-66 Diagnostic Instructions

### Chevy 560/610 6.6L Diesel – 2006

Before beginning diagnostics make sure the technician has thoroughly reviewed the AFIS II Installation Instructions as well as the AFIS II 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 II module.
- Ensure 6-Pin Data Link Connector is fully seated in the AFIS II module.
- Ensure Data Link Harness Connector is fully seated to the vehicle Data Link (below dash panel).

#### 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.

There are two (2) types of Diagnostic Trouble Codes (DTC) available to the technician.

To display System Status DTC 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. A 2-digit code is displayed by flashing the first digit, waiting one second, flashing the second digit, and then waiting four seconds before the next code is displayed. For example, if the status code was 2-4, the "System On" LED would flash two times, be off for one second, flash four times, and then be off for four seconds. If codes are not received, check all connections in the AFIS II system. These codes and their meanings are summarized in Table 1.

To display Memory DTC, the technician must press and hold the Manual Engage Switch for 5 seconds. The switch can now be released and codes can be retrieved for the last five (5) fast idle cycles. This will follow the same format of "flash codes" used to display System Status DTC. These codes and their meanings are summarized in Table 2.

<b>Code</b>	<b>Meaning</b>
1-1	Module On, Ready For First Fast Idle
2-1	Fast Idle In Progress Due to Manual Engage Switch
2-4	Fast Idle In Progress Due to Charge Protect (Battery Voltage < 11.5 for 2 seconds)
3-1	RPM too Low for Fast Idle Operation
3-2	RPM too High for Fast Idle Operation
3-3	Transmission Gear Incorrect for Fast Idle Operation
3-4	Vehicle Speed Incorrect for Fast Idle Operation
3-5	Service Brake Incorrect for Fast Idle Operation
6-1	CAN Network Communication Failure

**Table 1: System Status Diagnostic Trouble Codes**

<b>Code</b>	<b>Meaning</b>
1-2	Safety Conditions Met, Fast Idle Deactivated due to Vehicle Speed
1-3	Safety Conditions Met, Fast Idle Deactivated due to Timeout
1-6	Safety Conditions Met, Fast Idle Deactivated due to RPM out of range
1-7	Safety Conditions Met, Fast Idle Deactivated due to Transmission Gear out of range
1-8	Safety Conditions Met, Fast Idle Deactivated due to Service Brake depressed

**Table 2: Memory Diagnostic Trouble Codes**

If further assistance is required, contact InterMotive at (530) 346-1801. Be sure to write down any Diagnostic Trouble Codes received so that you can provide them to an InterMotive Service Technician.