

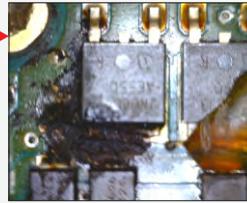
**GB's Complete FICM vs Board Only Option
Making the Right Choice**

The Fuel Injection Control Module (FICM) has a high failure rate on the Ford 6.0L Power Stroke engine. The FICM is a sophisticated control module consisting of two boards bolted together and contained in a single aluminum housing. The main board contains the microprocessor, all the injector drivers and the device's operating software. The power supply board converts the battery's 12 volts to 48 volts, which is supplied to the fuel injectors. This document outlines the benefits of replacing the complete FICM versus just the power supply board.

Feature	GB's Complete FICM 	Competitor Power Supply Board Only 
Includes the Latest FICM Software Released by Ford	<p>✓ Ford has made numerous software upgrades to the FICM during the 6.0L Power Stroke's life cycle. These updates were incremental improvements to improve engine operation and extend injector life. GB's FICM is pre-programmed with the latest software from Ford, which improves cold start up performance, reduces injector stiction problems, and improves injector life.</p>	<p>✗ Because the software is stored on the main board, the power supply board option does not upgrade the existing FICM with the latest software. The customer can be left with outdated or obsolete software which would require a costly dealer software reflash. This can add as much as \$125 to the total repair cost.</p>
Guaranteed to Fix 100% of FICM Failure Modes (See Images on Back Page)	<p>✓ Since GB's FICM is a complete FICM, it is guaranteed to fix 100% of FICM failure modes. All GB units are completely remanufactured and 100% tested as a complete unit.</p>	<p>✗ The board only option will not fix failures on the main board which are common. This results in the customer installing the board only to find out it did not fix the root problem. This wastes valuable labor time.</p>
Easy Installation & Reduced Labor Time	<p>✓ With GB's complete FICM, replacement simply requires removal and installation of the entire FICM. All GB FICMs come pre-programmed for the specific vehicle which is another time and money saving feature. Three part numbers provide 100% coverage, simply bolt-on and go.</p>	<p>✗ The board only option requires removal and complete disassembly of the FICM to install the new power supply board into the old FICM. This can take up to 1 hour of additional labor time without the assurance that the repair will result in success.</p>
Includes Upgrades to Common Failures on Main Board	<p>✓ During the remanufacturing process, GB upgrades the main board to prevent common failure modes, avoiding future issues.</p>	<p>✗ Because the board only option reuses the old main board, this often results in FICM failure down the road.</p>
Includes Technical Bulletin with Technical Tips and Critical Inspection Procedures	<p>✓ GB includes a tech bulletin with each FICM that covers important wiring harness and connector inspection procedures to identify common failures in the wiring system.</p>	<p>✗ Includes instructions for the board only, once the FICM is removed and disassembled. No vehicle technical tips are provided, which can result in lost labor time.</p>
Total Repair Cost	<p>✓ Because GB's FICM offers additional features and benefits such as reduced labor time and guaranteed repair of all FICM issues, it provides a better value for the customer.</p>	<p>✗ With the additional labor time to disassemble the FICM to install the board, the board only option does not provide the best value, especially considering the additional benefits complete FICM replacement offers.</p>
Works with Both Hardware Platforms & Provides 100% Coverage (See Images on Back Page)	<p>✓ Ford developed two different hardware platforms for the FICM, referred to as 7-Pin and 4-Pin. This refers to the number of screw lugs that attaches the power supply board to the main board. The 7-Pin early hardware was replaced later in the vehicles production cycle. Since GB's FICM's are a complete plug-and-play solution, any guesswork is eliminated and the customer can be sure the FICM will work in their vehicle, regardless of hardware platform.</p>	<p>✗ The aftermarket board only fits 4-pin hardware. Unfortunately the type of hardware can only be determined by removing and disassembling the FICM. Some customers purchase the board only to find out after disassembly they have the 7-Pin hardware. This requires the customer to return the board and purchase a complete FICM.</p>

Examples of Main Board Failure

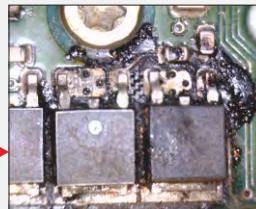
(These cannot be repaired with board only option!)



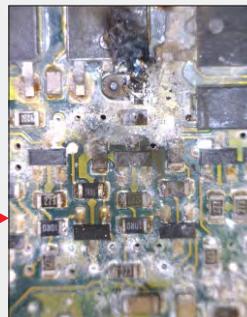
This main board has burnt components that are difficult to see without a microscope.



This main board has burnt components and a significantly damaged printed circuit board.



This main board has burnt components and a significantly damaged printed circuit board.



This board has corrosion caused by a failed case seal. This resulted in short circuits, damaged components and printed circuit board failure.

7-Pin
Hardware.
Board Only
Option Will
Not Work.

