

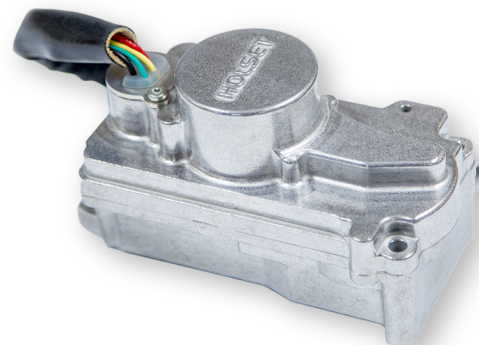
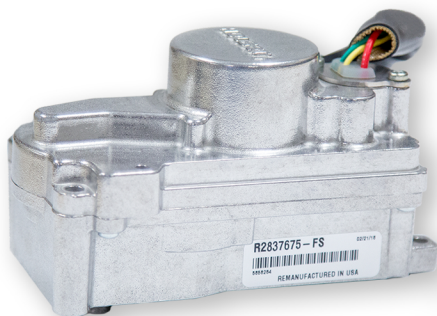
**Subject:** HE351VE Turbocharger Actuator Process Improvements  
**July 12, 2018**

Flight Diesel continues to improve upon our remanufactured Turbocharger Actuators. Our latest new process improvements greatly increase the quality, reliability, and functionality of the Actuator when compared to the competition.

**Process Highlights**

- External blasting to remove all paint and debris
- Fully polished for improved thermal transfer
- Mandatory replacement of failure prone components
- Full traceability (components and data)
- Repairs performed by certified electronics technicians
- Automated testing
  - Command / Response test
  - Positional feedback testing with external sensor
  - Temperature circuit verification
  - Effort Test
  - Simulated exhaust braking (load test)
  - Tri-Temperature (simulated extremes)

| Features  | Benefits   |
|---|--|
| 100% New Electrical Connector, Harness Retainer, Harness Sleeve | Improved materials for improved heat resistance, connection quality and durability |
| 100% New Mounting Gaskets                                       | Reduced risk of coolant leaks and water intrusion                                  |
| 100% Mandatory Replacement Components (electronics)             | Improved quality, durability, and lifecycle  |
| 100% Disassembled and Completely Cleaned                        | Zero risk of potential debris and contamination in the actuator                    |
| 100% Polished Finish  | Improved thermal transfer compared to painted finish                               |
| 100% New Bearings   | Improved quality, durability, and lifecycle  |
| 100% New External Screws  | Improved quality, and durability   |



07-12 6.7L Cummins HE351VE Actuator - 2837675