39MT™ Heavy Duty Starter with Smart IMS (Integrated Magnetic Switch)

Smart IMS technology protects against six of the most common failure modes that arise from system issues.

For each failure mode, there is a protection feature in the Smart IMS specifically designed to counter it and prevent the failure from occurring.

**PROTECTION FEATURES**

<table>
<thead>
<tr>
<th>Potential Failure Mode</th>
<th>Protection Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click-no-crank (driver annoyance)</td>
<td>Engagement monitor/auto-retry</td>
</tr>
<tr>
<td>Solenoid prolonged power</td>
<td></td>
</tr>
<tr>
<td>Damaged pinion &amp; ring gear teeth</td>
<td>Rapid re-engagement lockout</td>
</tr>
<tr>
<td>Engagement into running engine, damaged pinion &amp; ring gear teeth</td>
<td>Running engine lockout</td>
</tr>
<tr>
<td>Overcrank and solenoid chatter due to low battery SOC</td>
<td>Low voltage lock-out</td>
</tr>
<tr>
<td>Overcrank</td>
<td>Time-limited crank</td>
</tr>
<tr>
<td>Extended overrun</td>
<td>Auto-disengage at engine start</td>
</tr>
</tbody>
</table>

In addition to eliminating the six failure modes, the Smart IMS prevents the costly repair or replacement costs (and denied warranty claims) that often result from these failure modes.

**Warranty:** 3 year/unlimited miles and improved to cover the system-related failure modes listed (applicable in US and Canada).
### SMART IMS KITS
- **12 Volt:** 61006822
- **24 Volt:** 61006824
Includes IMS assembly, 2 bolts, ground lead, cable tie, instruction sheet

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## 39MT™ Heavy Duty Starter with Smart IMS

### OEM | Engine | OE | Reman | All Makes | Pinion Pitch/Teeth | Competitive Cross Reference
---|---|---|---|---|---|---
**Freightliner** | CAT C15, Cummins ISX, ISM, Detroit S60 | 19011521, 19011526, 8200095, 8200091, 8200661, 8200665 | 8300009 | 8200289 | 8200308 | MIB970975, MIB970975FL, FL0975, MIB970777, MIB970777FL, FL0777, FL0579
**Sterling Western Star** | Cummins ISX, ISM | 8200091, 8200091, 8200661, 8200665 | 8300009 | 8200289 | 8200308 | 6/8 - 11 tooth
**Navistar** | Cummins ISX, ISM, CAT C13, C15 | 8200091, 8200661, 8200665 | 8300009 | 8200289 | 8200308 | 6/8 - 11 tooth
**Kenworth Peterbilt** | CAT C9, C10, C11, C12, C13, C15 Cummins ISX, ISM | 8200091, 8200661, 8200665 | 8300009 | 8200289 | 8200308 | 6/8 - 11 tooth
**Mack** | Mack E7 | 19011500, 19011505, 19011531, 82000091, 8200661, 8200665 | 8300009 | 8200289 | 8200308 | 6/8 - 11 tooth
**Volvo** | Cummins ISX, ISM | 19011516, 19011517, 19011530, 8200091, 8200661, 8200665 | 8300009 | 8200289 | 8200308 | 6/8 - 11 tooth
**Autocar** | Cummins ISX, ISM | 8200091, 8200661, 8200665 | 8300009 | 8200289 | 8200308 | 6/8 - 11 tooth
**Prevost Bus** | 24V Detroit S60 | N/A | N/A | N/A | 8200330 | 6/8 - 11 tooth
**MCI Bus** | 24V Detroit S60, Cummins ISM, CAT C12, C13, N/A | N/A | N/A | N/A | 8200330 | 6/8 - 11 tooth
**Various 24V** | CAT C12, C13, C15, Cummins ISM, ISX, N14, Detroit S60, Mack E7 | 8200091, 8200661, 8200665 | 8300009 | 8200289 | 8200308 | 6/8 - 11 tooth

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