

Product Performance Summary

050-0810 Single Rotor Latch and Logic

Cycle Test:

The 050-0810 Single Rotor Latch and Logic had minimal amount of wear seen after 500,000 cycles and the examples were cycle tested up to a 100 lbf (45 kgf) seal load. TriMark recommends a seal load of 25-50 lbf (11-22 kgf).

FMVSS 206 Tests:

The 050-0810 Single Rotor Latch and Logic meets and exceeds the Federal Motor Vehicle Safety Standards when paired with approved TriMark Striker Bolts in accordance with SAE J839.

The FMVSS requirements are listed below.

Transverse	Primary 2000 lbf (907 kgf)	Secondary 1000 lbf (453 kgf)
Longitudinal	Primary 2500 lbf (1134 kgf)	Secondary 1000 lbf (453 kgf)

Cold and Hot Impact -40° F / 200° F (-4° C / 93° C) Test:

The over molded rotors used in the 050-0810 single rotor latch were tested to determine the ultimate impact strength in a cold and hot environment -40° F / 200° F (-4° C / 93° C). The over molded rotors were closed and then struck by the striker. The mean impact energy achieved by the rotor was a substantial 100 lbf-in (11 N-m). The over molded material did not show signs of fracturing.

Corrosion Test:

The 050-0810 single rotor latch and logic meets the ASTM B633 for a cyclic corrosion test of 250 hrs with <5% Red Rust.

Axle Torque Test:

The axles used in the 050-0810 single rotor latch exceed the recommended torque value of 72 lbf-in (8 N-m).



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