

Expresso S3 Novo Bike Quality Improvement

Steering

A break-through technology, **Electronic Steering Unit (ESU)** has replaced a potentiometer and addressed quality and service-life longevity issues generations of potentiometers could not solve. ESU uses "Hall effect sensor" with no mechanical wear-and-tear, and integrates a built-in noise suppressor. It addresses steering stickiness, jitteriness, unresponsiveness, and calibration issues.

Console

New design of console has improved **ESD (Electro Static Discharge) immunity**. The latest bike is **CE certified**.

Graphics and 19" Monitor

The latest S3 Bike has even **more realistic and vivid** image provided by **new graphics software** on the large **19" monitor** with a better video card.

Shifter

Ergonomics has improved by replacing the stick shift with the shifter buttons on the handle bar. Riders can now shift without taking their hands off the heart rate grips. The **shifter buttons** have gone through multiple design iterations to reduce rider abuse.

Computer

Higher-quality parts and improved quality specifications throughout the computer system have improved reliability. The new **HD (hard disk)** has improved shock resistance and reduced HD failures. The new **video card** with a new **heat sink** has improved heat release efficiency and reduced video card failures. The new **TV card** has improved TV image quality and reliability. The more stringent torque specifications on all connections and power grounding rules have been tightened for reliability and service-life improvement.

Drive train/MRD (Magnetic Resistance Device)

The latest S3 bike has an **upgraded drive train** whose force rating of the clutch is **90nM, 50% higher than the industry standard 60nM**. Combined with changes made in the MRD power supply installation, issues such as loss /excessive resistance and drive train slippage at the points where large grade changes occur in the virtual tours have been diminished.

Power Supply Entry

The new higher-quality **Power Entry Module (PEM)** has reduced computer and bike failures.



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