

Razor International Pty Ltd

Program Maintenance and Servicing – Leg Kit

Introduction

Razor has a suite of products designed to perform for many years. Each product has the ability to have an extended life beyond the life of some of the wearable components. This is achieved by the implementation of planned servicing and change out of components that have achieved their service life.

The two main components to this program are,

1. Environmental wear and tear
2. Number of operations (Job cycles)

These two components are monitored by the operator on a periodic basis with the view to avoid breakdown through early detection of 'approaching full useable life'.

Implementation of Program

Becoming familiar with the Razor product installed on your vehicle is essential to properly monitoring its readiness for work. Although there are generic similarities across the product suite, each product has its own specific needs when it comes to its service life.

The Razor maintenance program requires 6 monthly inspections. At these period inspections the following should be done to all products.

1. All wiring looms to be checked for possible damage from chaffing and proper support.
2. Inspect plugs (and fuse holder) by disconnecting and spraying with water inhibitor and reconnecting.
3. Inspect charge harness connection to vehicle for possible copper oxidization.
4. Check keypad for damage from stones or other road material.
5. Check drive pin and collar for proper seating.
6. Perform a run test and observe proper function.

Specific inspection for each Razor Kit

Leg System LD

The Leg system is made up of the following main component parts

1. Drive Unit
2. Razor Power Kit
3. Hardware kit(Drive pin, collar, rubber boot and clips)
4. Torque Arm

Drive Unit

The Drive unit is a non-braked 12V motor gearbox which is sealed and watertight. The life expectancy is 20,000 cycles (starts) or 5 years, however the brake components have wearing parts and will need inspection at 1 year intervals to check for compliance tolerance.

Controller

This component is the brain of all Razor drive systems. It has a power input loom and drive unit output loom and clean dry connectors are important for trouble free operation. The looms and plug connectors are regular inspection items for good working condition.

The Keypad located on the front of the housing has a polycarbonate stone guard, designed to protect the keypad from projectile damage and it's important the guard remains in place.

Razor Power Kit

This component has 4 main parts,

1. Battery Housing
2. Battery
3. Battery charger
4. Battery and charge harnesses

Please (Refer to the Razor Battery Service Bulletin) for proper care and maintenance

Hardware kit

The drive pin and collar can move over time and will need repositioning as necessary.

Torque Arm

Typically, a torque arm consists of a torque arm bracket and a spigot that is nested into the rear of the drive unit. Poor alignment can affect the ease of the leg gear change.