Diagnosis Instigates a Repair Process

**Key**
RIF: Robot In Fault state
RCR: Robot Conducting Repair

**Diagram Description**
- **RCR locates RIF**
  - Camera identifies robot marker

- **RCR orbits RIF to locate faulty module**
  - Holonomic kinematics and camera barcode algorithm

- **RCR docks with faulty module**
  - Camera and positional markers

- **RCR removes faulty module**
  - Screw manipulator and current sensor

- **RCR attaches replacement module**
  - Screw manipulator and current sensor

- **RCR orbits RIF to locate empty module location**
  - Holonomic kinematics and camera barcode algorithm

- **RCR locates RIF**
  - Camera identifies robot markers

- **A replacement module is retrieved**