Remote Monitor Instructions

What's Included

BPK-S Box

- BPK-S Shaft Grounding Kit
- Dual Lock
- VHB Tape
- Mounting Bolts

What's Included

Remote Monitor Box

- VHB mounting tape

What's Included

BNC Cable

Breakout Cable

BPK-Probe Remote Monitor Interface Cable

(Not included with every Remote Monitoring Kit, replacements available for sale)

Installing BPK-S

Surface Preparation:

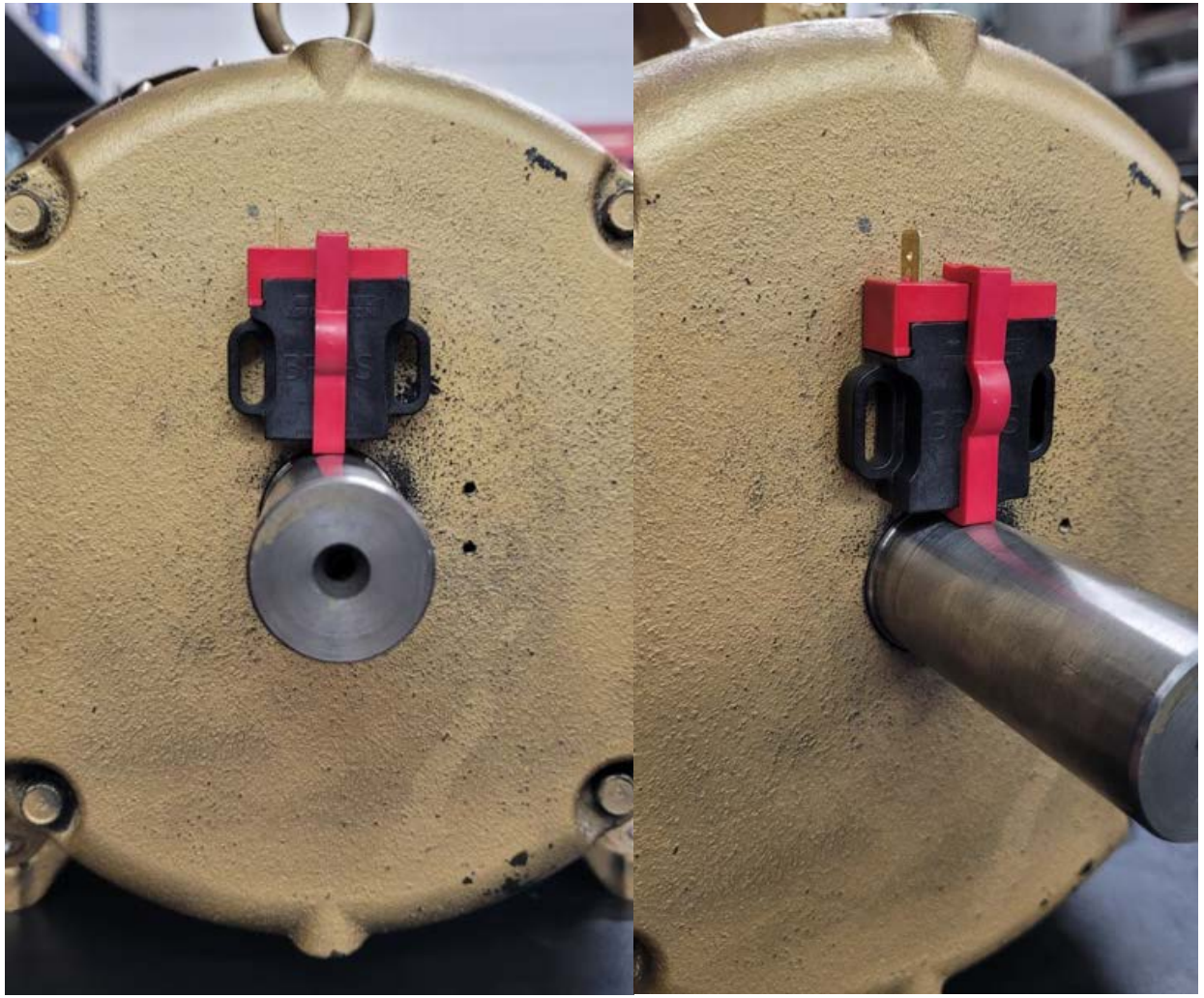
- See manufacturer's recommendations for attachment.
- 1. Dual Lock™ - https://multimedia.3m.com/mws/media/435265O/dual-locktm-reclosable-fasteners-att-pres-sens-adh-or-heat-bnd.pdf
- 2. VHB Tape™ - https://multimedia.3m.com/mws/media/66019O/vhbtm-tape-surface-preparation-technical-bulletin.pdf

Example installation will be shown using VHB tape

Installing BPK-S

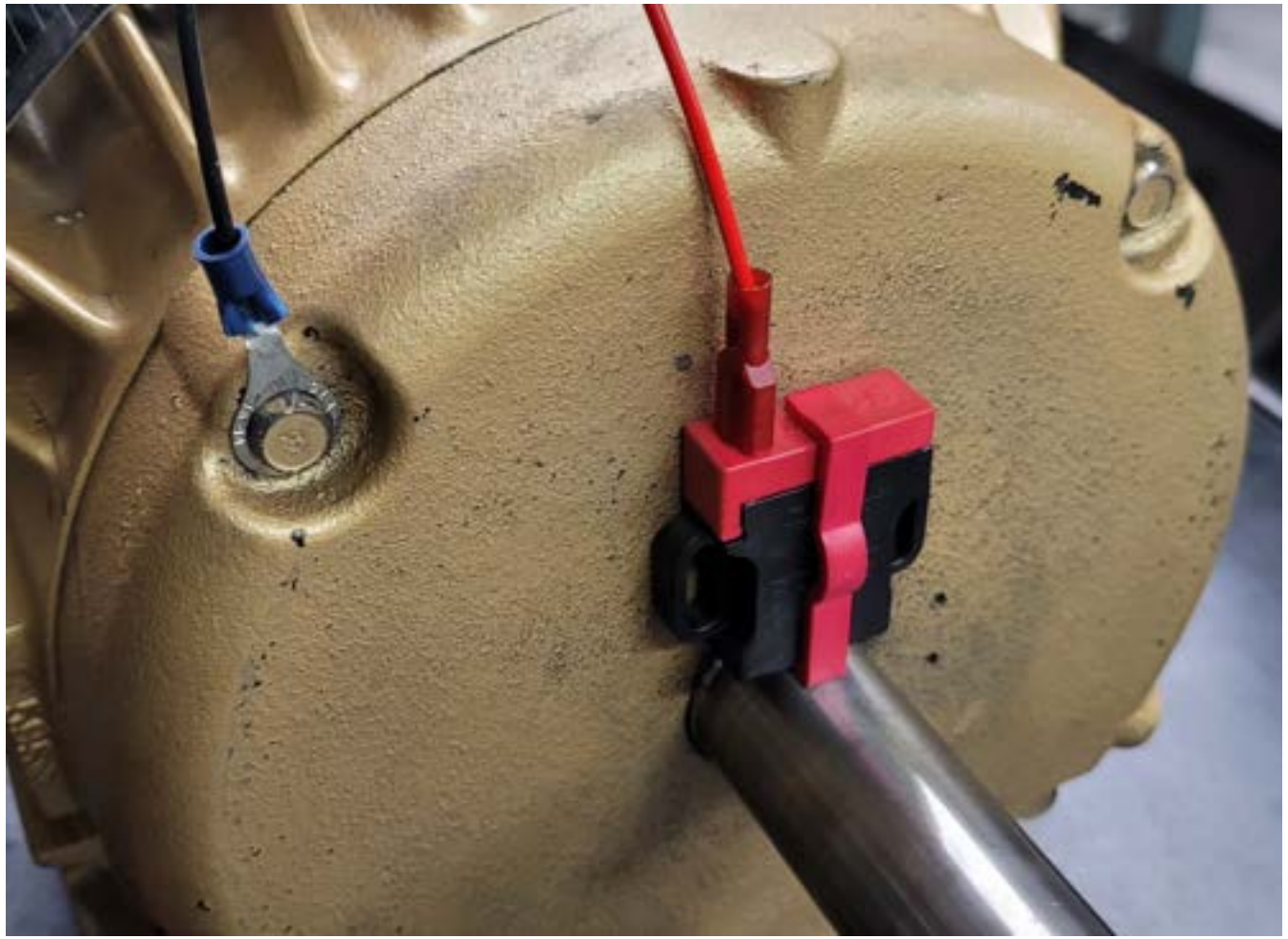
Using one of the methods of attachment listed below place/fasten BPK-S onto the motor face with the red clip aligned on center and touching the shaft as shown.

1. **VHB Tape (pictured)**
2. **Dual Lock**
3. **Drill and tap**
4. **Bracket (sold separately)**



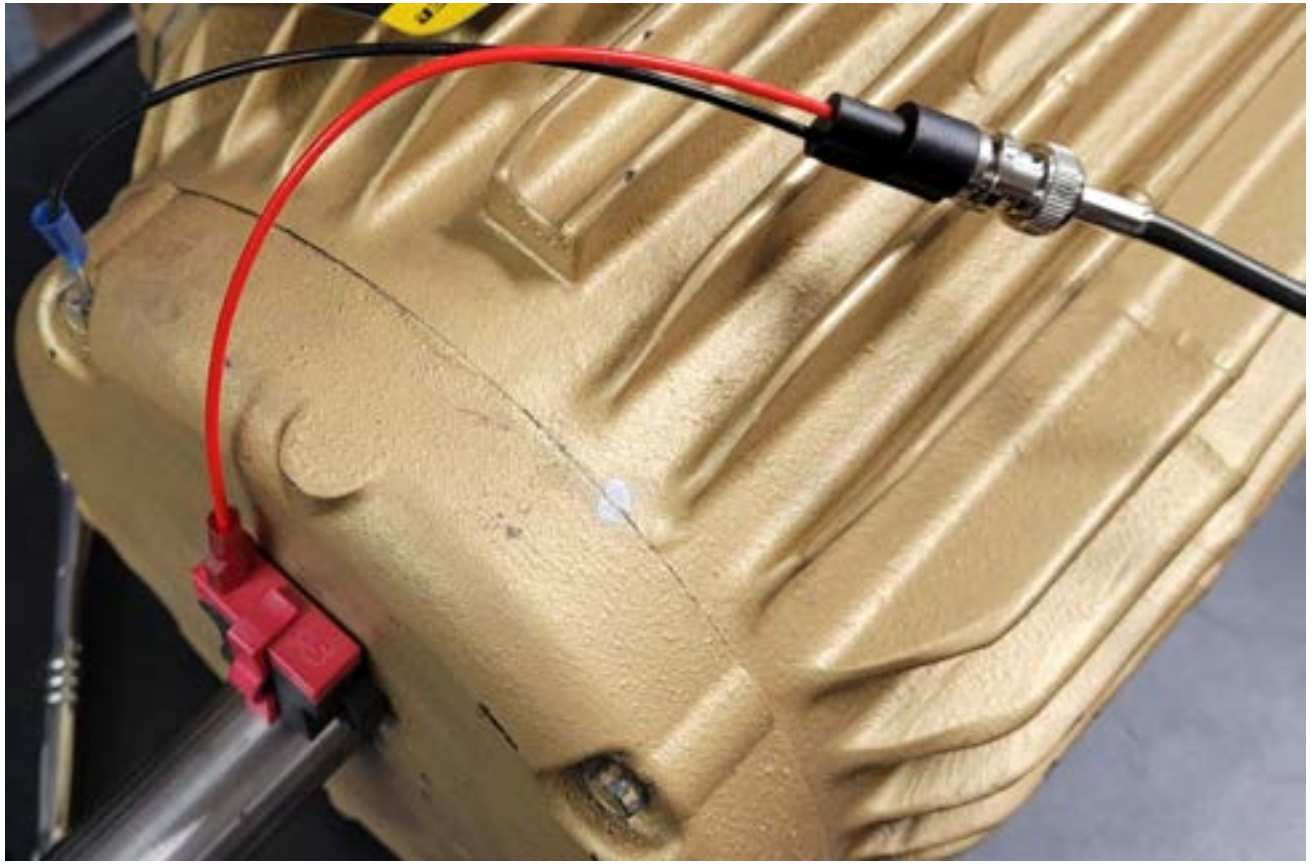
Installing BPK-S

- Locate included breakout cable
- Insert quick release female connector into tab located on the top of the BPK-S
- Connect ring terminal to a known good earth/ground free of paint and other contaminates.
- Ensure the BNC connector is safe from rotating objects but is still accessible.
- Remove red brush retaining clip



Connecting BPK to Remote Monitor

- Locate included BNC cable
- Attach BNC from the breakout cable to the BNC cable
- Run cable near to the desired location of the Remote Monitor



Connecting BPK to Remote Monitor

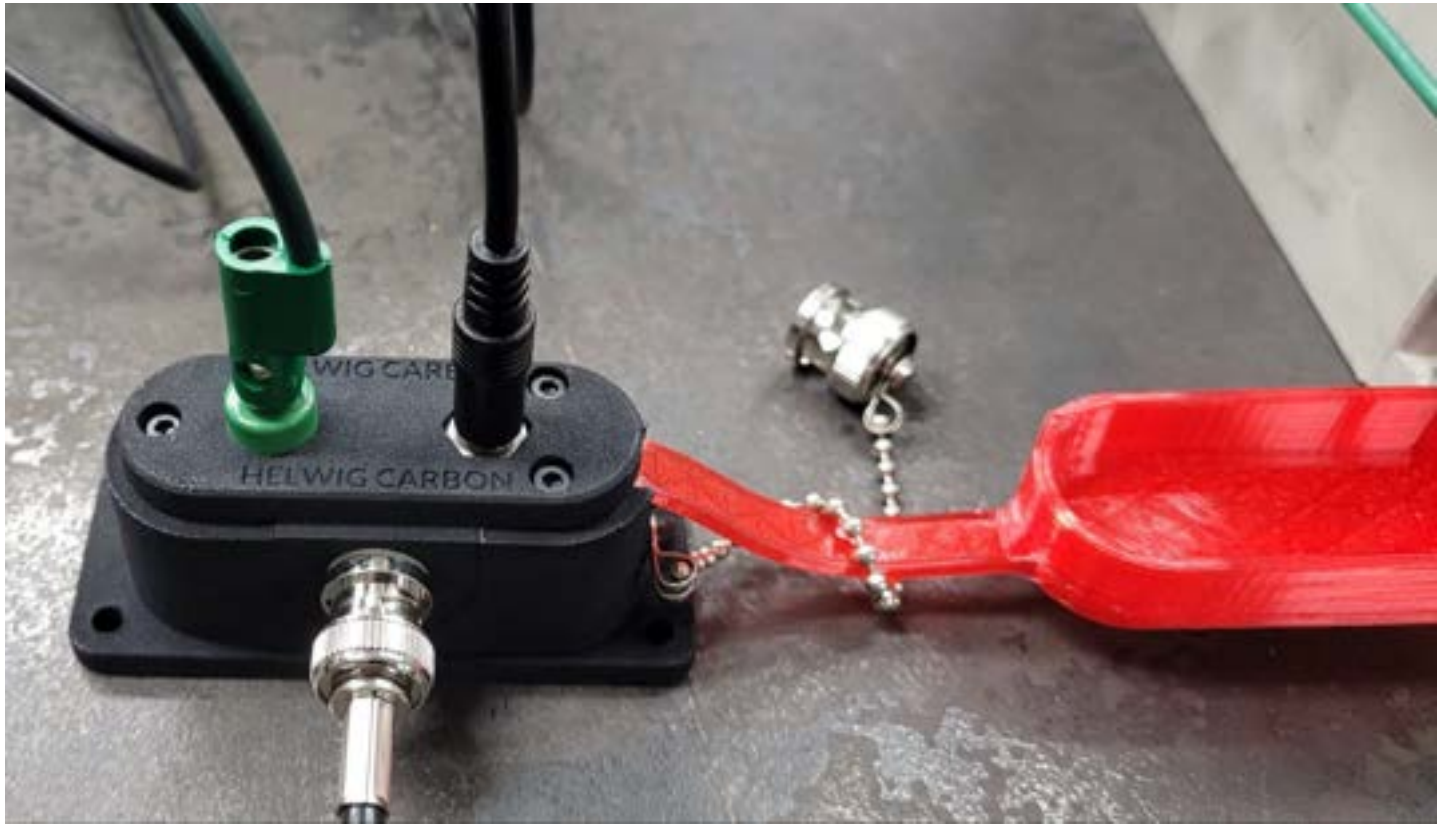
- Connect the BNC cable to the Remote Monitor
- Optional –
  - Use included VHB tape to attach Remote Monitor
  - Mount using screws (not included)

Using BPK-Probe to Test Motor

- Connect banana jack (sold with BPK-Probe) to port located in the base of the BPK-Probe handle
- Thread BPK-Probe Remote Monitor Interface Cable into the brass tip of the BPK-Probe Handle.
  - Cable can be assembled to extension tubes if necessary

Using BPK-Probe to Test Motor

- Open lid of Remote Monitor
- Connect banana jack from base of BPK-Probe handle to the banana plug of the Remote Monitor
- Connect audio jack of the BPK-Probe Remote Monitor Interface Cable into the Remote Monitor

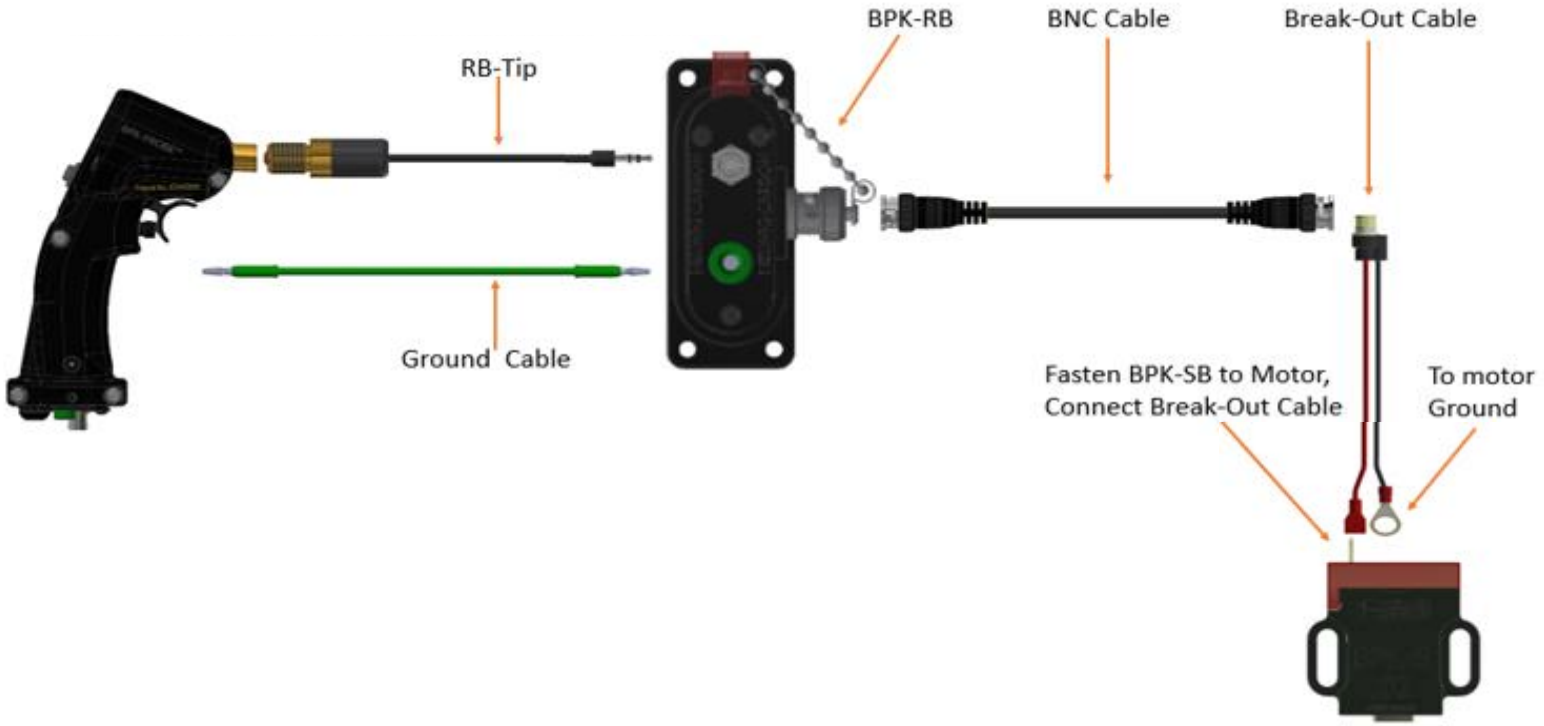


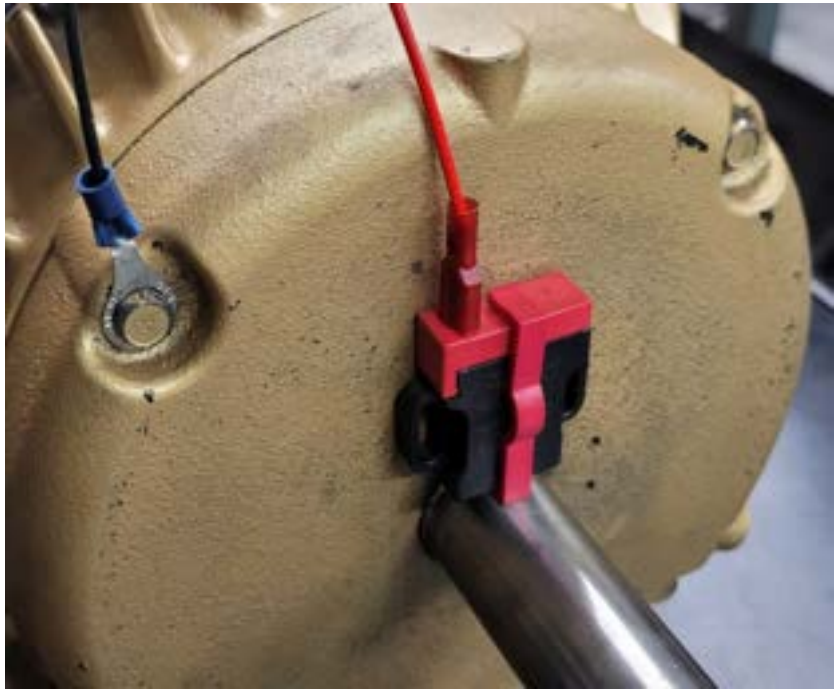
Using BPK-Probe to Test Motor

- Operate BPK-Probe as normal
  - Pull trigger to wake
  - Pull and hold trigger to sample
- Grounding Switch position – Off
  - If BPK is working as expected – BPK-Probe will read FAIL
  - If PASS is read, troubleshooting guide
- Grounding Switch position – On
  - If BPK is working as expected – BPK-Probe will read PASS
  - If GROUND ERROR is read, troubleshooting guide

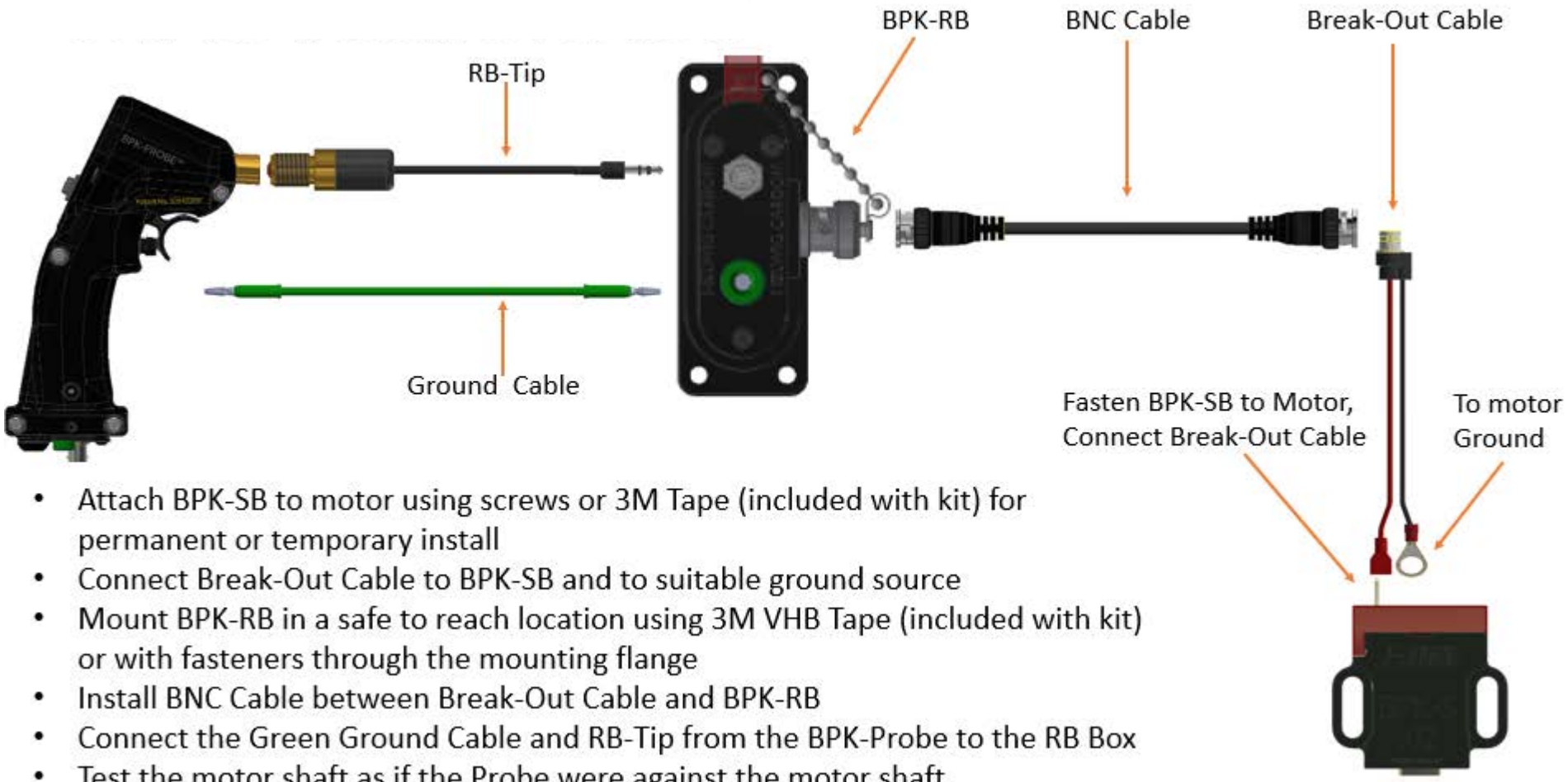
Trouble Shooting Guide

- **Verify all BPK-RB kit connections are correct and secure, including the monitor cable connected to the BPK-Probe**
- **Verify BPK kit is installed correctly, the ground wire is secure, and the brush is contacting the rotating motor shaft**





BPK-RB Install Overview



- Attach BPK-SB to motor using screws or 3M Tape (included with kit) for permanent or temporary install
- Connect Break-Out Cable to BPK-SB and to suitable ground source
- Mount BPK-RB in a safe to reach location using 3M VHB Tape (included with kit) or with fasteners through the mounting flange
- Install BNC Cable between Break-Out Cable and BPK-RB
- Connect the Green Ground Cable and RB-Tip from the BPK-Probe to the RB Box
- Test the motor shaft as if the Probe were against the motor shaft.