

Most of the later model Vikings have an electric / hydraulic landing gear power Pac. The power Pac is located under the co-pilot seat left frame track. If you are having a retraction problem and the electric motor does not run it could be as simple as a blown breaker (fuse) or an overhaul of the electric motor. The electric motor is the same used on some outboard boat motors to raise and lower the boat motor. The exception is that the drive shaft is much longer to engage your power Pac. Remove both seats (see seat removal above). Remove the fuel selector handle, remove the center console, and remove the front carpeting. At the back of the front seats there is a large part of the fuselage tubing that the carpet snaps on to, remove the three pieces of flooring under both seats. The power Pac Electric motor is located under the co-pilot left seat track. The motor must be dis-assembled **ON THE POWER PAC** for removal. It will not clear the seat frame track. **CAUTION:** Index the two assembly screws at the housing AND power Pac that hold the brush holder end plate onto the housing. Remove the two assembly long screws, there are wires attached to one screw. **CAUTION:** There is a small centering bearing about the size of a bee bee resting on the top of the armature shaft just under the brush holder end plate. Needless to say you do not want to loose that centering bearing. Gently remove the brush holder end plate. Move the plate to one side, inspect the brushes; remove the armature, then the housing. Have a qualified shop recondition the armature, re-place the brushes, check the stator coils inside of the case, supply you with the o ring fluid seal. I spoke to a technician at the manufactures location in Kentucky several years ago and was told to expect about four hundred hours of service life per set of brushes. It was not recommended to re-place the brushes more than the second time without changing the armature. To re- assemble place the housing on the power Pac make note of the index mark **AND** an indent that the housing fits into is aliend, install the armature, put **THICK** grease on the centering ball bearing to hold it in place on the end of the armature, I use two large paper clips opened to make hooks with to hold the brushes apart so they will fall into place on the armature. The brush holder end cap also has alignment detents to rest into. Replace the attachment screws; remember to attach the electrical wiring under the one screw head. Check all fittings around the power Pac for fluid leaks re-assemble in reverse order of dis-assembly.