

EYE LEVEL AVIATION

Thank you for purchasing the ***Parking Brake Mount with Microswitch*** for your Van's aircraft with Beringer brake installation. Eye Level Aviation, in partnership with Aircraft Specialty Flightlines, strives to make this kit easy to install and will give your installation a professional and finished look. When installed correctly, a message confirming your parking brake is set will increase your awareness of the state of your parking brake. Please contact me at Mike@EyeLevelAviation.com if you have any questions about the installation. We look forward to seeing this installed on your airplane.

**Thank You,
Eye Level Aviation
Aircraft Specialty Flightlines**

INVENTORY

Parking Brake Mount with Microswitch Kit

ITEM	QUANTITY
Parking Brake Mount Assembly	1
Aluminum Parking Brake Mount	1
Microswitch	1
SS Screw – 4-40 x 5/8	1
SS Lock Washer – No. 4	1
SS M5 Socket Head 45mm	2
SS M5 Nylon Locknut	2
SS M5 Washer	8

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INSTALLATION INSTRUCTIONS

1. Before installing on the aircraft, build up the parking brake assembly on the bench to test the function of the valve and the microswitch. No fluid should pass through the parking brake valve when the lever is in the closed position. The valve is closed when the lever is against the parking brake mount and the microswitch is pushed in.
2. Follow all of the instructions in the Beringer Installation and Maintenance Manual except install this ***Parking Brake Mount with Microswitch*** on the other side of the Parking Brake [FP-001(A)] from the Support (AV-VANS-015A) using a washer in between each component. Use the longer M5 mounting screws (45 mm) provided in this kit.
3. Use instructions from your avionics provider (Garmin, Dynon, Advanced, etc.) to wire the microswitch as a discrete so as to provide a “Parking Brake Set” message on the Primary Flight Display. The terminal labeled NO (Normally Open) and the COM (Common) are used to generate electrical continuity when the switch is closed.
4. Once satisfied that the valve and microswitch are assembled and functioning properly, install the assembly in the desired location inside the aircraft.
5. Test the installation by pulling and pushing the parking cable knob in the cockpit and confirm that the brakes are set when the valve is closed and released when the valve is open.

WARNING – LIMITATIONS OF THE MICROSWITCH LOGIC

1. ***The “Parking Brake Set” message may be displayed without the parking brake actually being set.*** Simply pulling the parking brake against the stop without applying brake pressure will give an erroneous “Parking Brake Set” message. Set the parking brake properly to avoid a false message or indication.
2. ***The parking brake may actually be set without the “Parking Brake Set” message being displayed.*** This can happen if the parking brake is not pulled completely against the stop to trigger the switch but far enough that the parking brake valve is closed. Set the parking brake properly to avoid not displaying the “Parking Brake Set” when the parking brake is actually set.
3. ***Do not set the parking brake while airborne.***
4. ***Use chocks, not the parking brake, to keep the airplane from moving when the airplane is unattended.***