



March 19, 2025

Service Bulletin: JDM Brake upgrade

Effected Models: Maverick, Rebel, Elite

Introduction: With some of our older kits we have had issues with the original brakes locking up during taxi. To rectify this Defect, we recommend Removal of the old relay rods that work from pilot pedals to the right co-pilot pedals. Once the relay rods are removed you can install 2-4 independent brake cylinders depending on desired configuration.

Objective: To give better handling while taxiing and give more positive braking pressure with JDM brake system. Please read through this Service bulletin and don't hesitate to call or email our tech support team at the factory.

Techsupport@murphyair.com

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List of parts

- | | |
|--------------------------|------------------------------|
| 1. Angle Brackets | BRK220-8 PCS |
| 2. Matco Brake Cylinders | MCMC-4 – 4 PCS |
| 3. Floor Gusset plate | 24"x 24" x.040" 6061 – 1 PCS |
| 4. Cadmium Bolts | AN3-11 -8 PCS |
| 5. Castle Nuts | AN310-3 – 8 PCS |
| 6. Cotter pin | AN380-3-3 – 8 PCS |
| 7. 48" Witches hat | FUS0212 -1 PCS |
| 8. Stiffer rivets | RV1410 – 100 PCS |

1/ Remove the two tabs from the bottom of the brake pedal to which you would normally attach the bottom of the brake cylinder. File smooth. Fig. 1

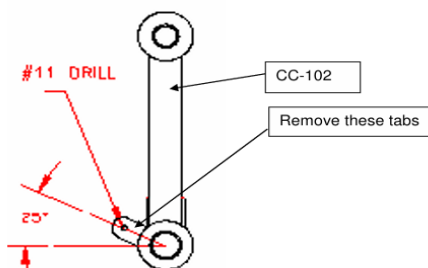


Fig. 1

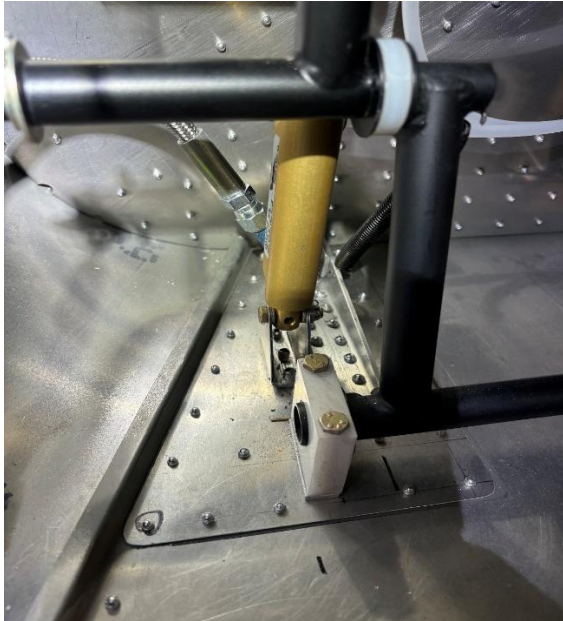
2/ Install 2 BRK-220 Bracket to brake actuator and attach to the floor as shown in fig. 2. Drill 3/16" holes to take the cylinder retaining bolt, and three #11 holes equally spaced along the flange that will be riveted to the floor.



***Disclaimer** Moose floor with relay rods installed, these are now obsolete rudder pedal parts



FIG.2.Rebel Left hand pedal pilot side



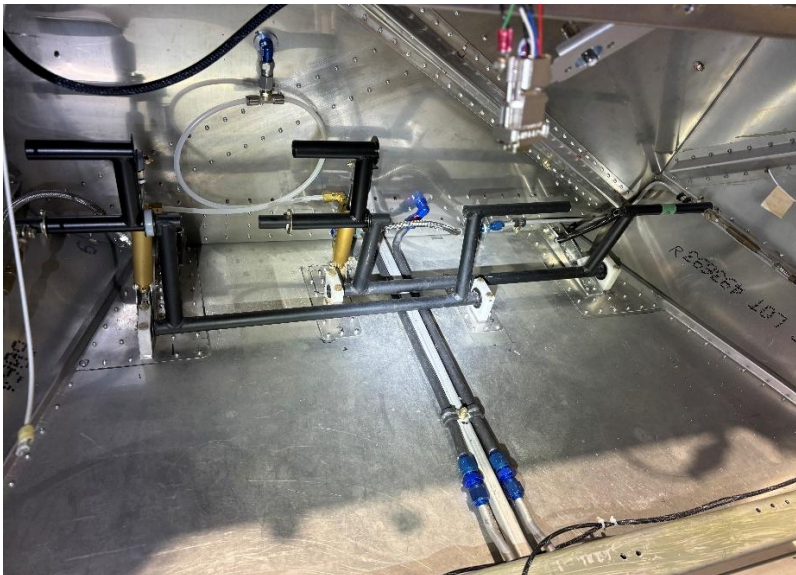
Rebel Right hand Pedal pilot side



3/ Bolt the angles to the brake cylinder, position on the floor and drill into the floor through the #11 holes.

4/ Rivet in place with RV-1613 rivets. Fig. 3. Adjust brake pedal to desired position.

FIG.3 Rebel floor with brake Mods done only on pilot side



5/Install witches hat/or .040" doubler plate below the new BRK0220 angles and tie into the carry through and firewall rivet lines. Can be added to stiffen the floor from oil canning.

See fig. 4.

FIG.4

