

Black Magic Brakes

Brake Bleeding Lock-out Tool

Description– This tool is used to lock out the shuttle valve and prevent it from shifting during brake bleeding to provide even flow to both circuits.

We have noticed over many years of bleeding brakes on the TJ that it is very common to have the shuttle valve shift during bleeding. This is noticed during a bleed with the key on and the parking brake off. The brake light on the dash will illuminate showing that the shuttle valve has shifted and needs to be centered again to allow balanced flow to both front and back fluid circuits. The lock-out tool when installed will hold the shuttle valve in place to keep the flow even.

The tool threads into the port where the plunger switch is mounted that tells the brake light on the dash to illuminate when the shuttle valve has shifted. With the parking brake off, and key on so the dash is illuminated, check to see if brake light is illuminated. If it is, the valve needs to be checked to make sure it has not been shifted. Stomp the brake pedal a few times to see if the light will go off. If not, stop and give me a call to see if we can solve the problem. If the brake light on the dash is off, remove the connector from the white plunger switch and remove the plunger switch from the combination valve block.



Thread the lock-out tool into the port. The pin will land in the detent in the shuttle valve and prevent it from moving during bleeding. It only needs to be finger tight after it bottoms out. Don't use any tools on it since too much force will damage the shuttle valve or the tool. Remove the tool when you are done with bleeding the brakes and reinstall plunger switch and connector.

