

## Mazda MX-5 Cup Car Technical Service Bulletin #2021-04-19 #1

### Optional: Second Brake Duct Relocation

**This TSB describes:** The highly recommended, but optional use of a second brake duct relocation on the front uprights. It has been developed to improve the cooling efficiency to the front brake rotors and calipers. This will help teams that have been experiencing higher than normal brake temperatures. This will replace the lower duct that just directed the air flow to the inner surface with a new duct that directs the air flow to the caliper and center of the rotor. With the testing that has been performed and validated, Flis Performance discovered that with the new duct the caliper cools better and the inner and outer surfaces of the rotors have more consistent temperatures causing less cracking of the rotors. This will also help on extending rotor and pad longevity. During our testing we still had the drop in temperature to the rotors like the previous released lower duct update but with this new duct we experienced more consistent throw out of the rotor allowing for the veins within the rotor to perform and their maximum efficiency.

**Note: Only two duct hoses can be used per side.**

#### Brake Duct Kit Includes:

- Two Upright Flange Ducts
- Two Allen Fastening Bolts (3/8"x24)

#### Parts Reused from Lower Duct Installation

- Lower Duct Hose (same length)
- Lower Duct Clamp

#### Tools Needed:

- Tool to remove and install Duct Clamps
- 7/32 Allen Socket or Key
- 17mm Socket and Ratchet
- Cut Off Wheel for trimming Backing Plate
- 3/8 x 24 Recoil or Heli-coil Kit

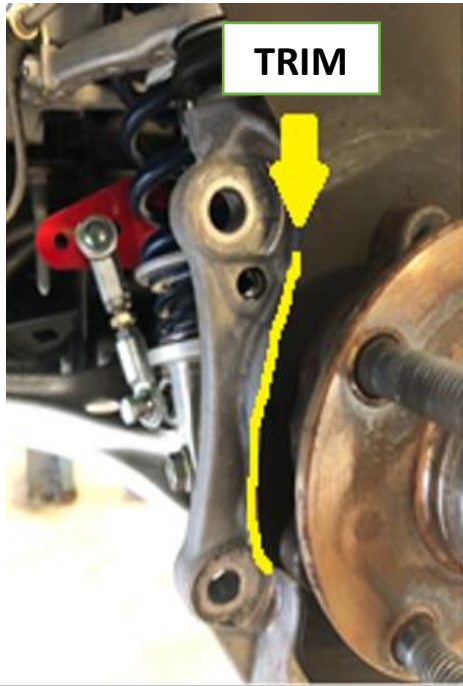


#### Installation:

Safety First – Follow all Shop Safety Standards

1. Remove Lower duct Clamps and Hoses from ducts
2. Remove Brake Calipers and Rotors
3. Trim Backing Plate like Picture #1
4. Install 3/8" x 24 Thread Repair Inserts in Upright (As Manufacture Advises), (No Drilling should be Needed) Like Picture #2 & #3
5. Install Brake Calipers and Rotors
6. Install New Flange Duct using 3/8" x 24 Allen bolts (Supplied) with Loctite Like Picture #4
7. Reconnect Lower Duct Hose and securely mount with zip ties Like Picture #5

Picture #1



Picture #2



Picture #3



Picture #5



Picture #6



For any questions or concerns, please contact us:

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