



# AP1 Brake Ducts

293D-AP1-BD1

## Installation Instructions

### Contents

Item #	Qty	Description
1	1	LH Brake Duct
2	1	RH Brake Duct
3	4	M5x20mm Button Head Hex Drive Screws
4	4	M5 Lock Nuts
5	4	Washers
6	4	Nylon Spacers

### Tools Required

Item #	Description
1	Protective Blanket or Towel
2	Silver Marker
3	Dremel with Cutoff Wheel
4	Mini Reciprocating Saw
5	Drill
6	3/32" Drill Bit
7	Step Bit with 7/32" step ( $\approx 5.5\text{mm}$ )
8	3mm Allen Wrench
9	8mm Socket or Wrench

### Personal Protective Equipment

Item #	Description
1	Safety Glasses
2	Protective Gloves



1. Prepare Work Area
  - a. Clear space and lay down protective blanket or towel
2. Remove Front Bumper Cover
  - a. Refer to factory service manual for removal
  - b. Place front bumper cover on protected surface with painted side down
3. Mark Cutting Line
  - a. Draw cutting line with silver marker as shown in Fig. 3a



Figure 3a

4. Cut Faux Vent
 

**Warning: Do not allow cutting tool to hit painted surface**

  - a. Initiate cut line with Dremel tool as shown in Fig. 4b



Figure 4a

- b. Cut remainder of marked line with mini reciprocating saw. See Fig. 4b



Figure 4b

- c. Remove burrs from cut edges

## 5. Mark Holes for Drilling

- a. Place duct from front side in newly cut hole as shown in Fig. 5a



Figure 5a

- b. Tightly press brake duct in cavity, ensuring it is fully seated while marking holes as shown in Fig. 5b and 5c

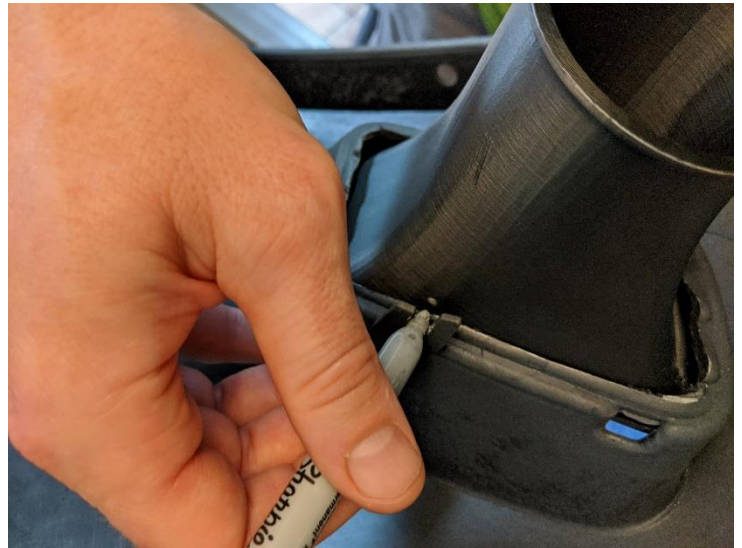


Figure 5b

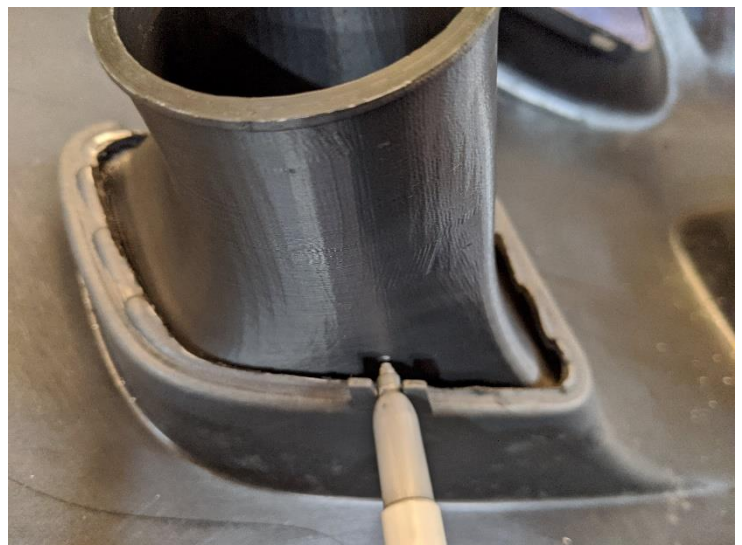


Figure 5c

## 6. Drill Fastening Holes

- a. Drill 2 pilot holes with 3/32" drill bit as shown in Fig. 6a



Figure 6a

- b. Drill 7/32" holes with step drill bit  
**Warning: Do not use traditional drill bit.  
 May cause cracking.**

- 7. Install Brake Duct
  - a. Place duct back inside cavity
  - b. Install M5 screws with spacers and washers as shown in Fig. 7b  
**Warning: Do not overtighten.**

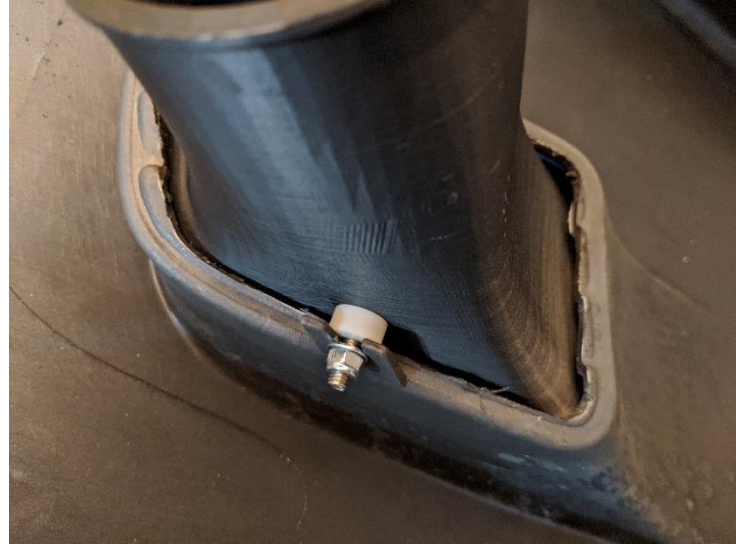


Figure 7b

- 8. Repeat steps 3 – 7 for opposite side
- 9. Check to make sure ducts are tightly held against bumper as shown in Fig. 9



Figure 9

- 10. Get some! 👍👊

