

QUANTUM
POWER AND PERFORMANCE

QPP Installer Services

Kit Includes:

- Front Chin
- (2) Brake Ducts
- (2) Brake Duct Screens
- (8) Hi/Low Screws
- (5) Push Pins
- (1) Alcohol Prep Kit
- Tape

Installation Instructions:

Before beginning installation, read all Special Notes.

1. Preparation:

- **Note:** To ensure the safety of the installer when working on or under the vehicle, be certain that vehicle is in park, on a level surface and the parking brake is set. It may be required to use a Wheel Chock.
- Raise front of vehicle using ramp, hoist, jacks, etc., and properly support with jack stands.
- **CAUTION!** Raising your vehicle with the jack improperly positioned can damage the vehicle and even cause the vehicle to fall. To help avoid personal injury and vehicle damage, be sure to place the jack in the proper location before raising the vehicle.
- To help ease installation, remove front tire/wheel assemblies **per standard operating methods.**

2. Remove stock components:

- Remove front side air dams by unscrewing qty (3) screws on each side, using a 7mm socket and ratchet. Take out the qty (1) Christmas tree fastener that connects each side air dam to the center air dam. See Figure 1.

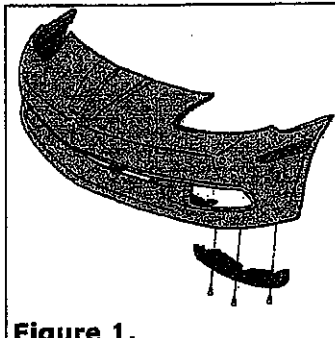


Figure 1.

2005 Corvette: Front Chin

Kit #: 5006-9501-01

Special Notes:

- Test fit component before painting. To ensure the quality of your vehicle and the product, have your chin painted by a qualified professional automotive painting facility.
- Before beginning installation of the kit, compare the parts you have received with the bill of materials provided on this page to assure that you have all the parts necessary for the installation of your front chin.
- In each step of removal, it is important to save all OEM fasteners, as they will be reused during assembly.
- Please note that brake duct screens have sharp edges. Wear protective gloves during installation to prevent injury.
- It is advisable to wear protective gloves, clothing and eyewear when engaging in any automotive repair or product installation.
- Adhesion promoter chemically alters the contact surface. It will permanently stain or alter the gloss of any surface it touches. Do not allow promoter to touch any surface other than what the tape will adhere to.
- Due to production vehicle tolerancing and build variation, chin may need to be finessed before final paint and installation.
- Installing this component on your vehicle decreases ground clearance at the front end. Therefore, Quantum Power and Performance can not replace or repair any component damaged by automatic car wash equipment.
- By using this material, the owner assumes all responsibilities and agrees not to hold *Quantum Power and Performance* or any of its subsidiaries responsible for any and all outcomes due to the use or installation of its information and products. *Quantum Power and Performance* is not responsible for damage, theft, or loss due to improper customer installation or usage.



Front Chin
PN#5006-9501-01

Suggested Tools:

- 10mm Deep Well Socket & Ratchet
- 7mm Socket
- Push Pin Remover
- Paint-Safe Masking Tape
- Small Phillip Screw Driver
- Safety Glasses
- Adhesion Promoter
- Drill Motor & 1/4" drill bit
- Utility Knife

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- Remove qty (8) push pins from each side of front wheel liner using a push pin removal tool (also called a crows foot): 3 along top edge and 5 along outboard fender edge (Figure 2).
- Using a deep well 10mm socket and ratchet, remove nut from stud, below fascia, on each inboard side of vehicle.
- Remove qty (2) screws from each side (that connect the stock brake duct to wheel liner) using a 7mm socket and ratchet or driver. Slide wheel liner out and away from vehicle. Do NOT discard wheel liner or any of the fasteners, as they will be reused during installation.
- Pull the brake duct flange below the stud, then slide entire brake duct assembly toward the rear of the vehicle, as shown in Figure 3.
- Remove front fog lamps with a 7mm socket, unscrewing qty (3) bolts located on the inner fascia, below each lamp housing. Disconnect lamp harness by rotating clockwise 90 degrees. Tuck lamp harness and lamp into safe position until reinstallation. Rotate lamp at bottom and remove from locating holes. Set lamp aside.

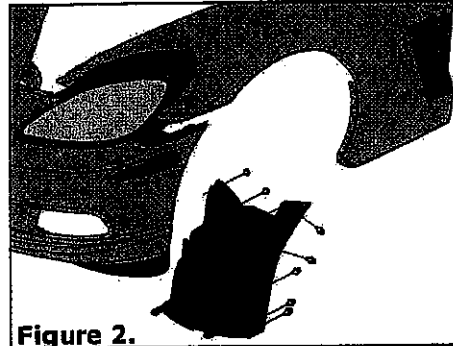


Figure 2.

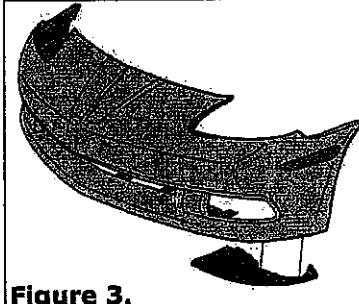


Figure 3.

3. Test Fit Component:

- Prior to painting, place the front chin on the front fascia to verify surface and hole alignment. Use 3M automotive paint safe tape to mask off the front of your vehicle prior to test fit to prevent paint damage. Due to tolerancing of production vehicles, it may be necessary to fine tune the surface of the chin.
- **It is recommended that PPG products and plastic painting procedures are followed during preparation, priming, and painting.** Similar products and practices may be used; however, the final performance has not been evaluated by Quantum Power and Performance.
- The tape channel should be painted, along with the A-surface, to ensure correct adhesion between material and tape.
- Remove brake duct screens prior to painting to avoid overspray. Using a small Phillips Head Screw Driver, take out qty (4) screws from each side.

The logo for Quantum Power & Performance, featuring the word "QUANTUM" in a bold, sans-serif font inside a stylized oval shape.

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4. Preparing the Tape:

- One of the primary attachment methods used for the front chin is 3M automotive grade tape. Note that the tape channels should be painted just as the A-surface is, as the tape provided in your kit is designed to adhere to painted surfaces. Please read the following instructions carefully to ensure proper adhesion to your vehicle.
- The tape provided in this kit has been pre-cut to fit the chin. Please note that tape is intentionally cut longer than part length/width to allow for tape leaders (described in Step 6).

Adhere Tape to Spoiler:

3M ADHESION PROMOTER CHEMICALLY ALTERS THE CONTACT SURFACE. IT WILL PERMANENTLY STAIN OR ALTER THE GLOSS OF ANY SURFACE IT TOUCHES. DO NOT ALLOW PROMOTER TO TOUCH ANY SURFACE OTHER THAN WHAT THE TAPE WILL ADHERE TO.

- Avoid direct contact with skin and eyes.
- Keep away from flames as promoter is extremely flammable.

5. Using the Promoter:

- Clean the chin surface that the tape will cover (along the channel) with a soft, lint-free cloth.
- Apply the promoter:
 - Gently place the promoter sponge on the tape channels. Apply as thin a coat as possible.
 - Apply the promoter evenly.
 - Do not apply the promoter to the same area more than once. Multiple coats will decrease the promoter adhesion quality.
- Allow the promoter to dry for approximately (1) minute. When the promoter is dry, it will appear to be absorbed into the painted surface.

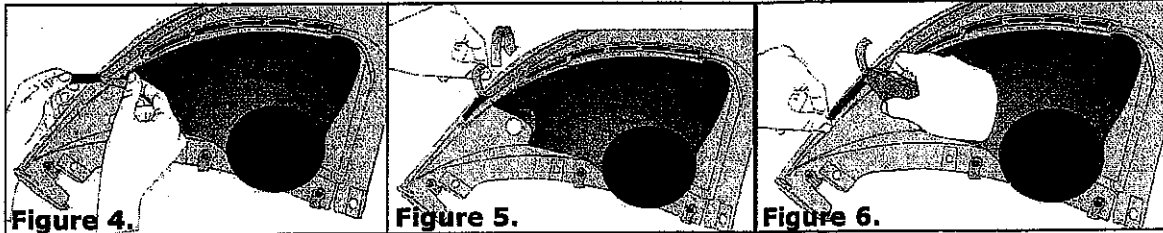
6. Applying Tape & Creating Leaders:

- Apply tape: As noted above, tape is specified longer than actual part. When laying tape to part, leave approximately 3" overhang on EACH outer edge of the tape channel. The excess tape will be used to create leaders. Lay tape in the channels, approximately 1-2" at a time, pressing down firmly as each section is laid into the channel. Use caution not to touch the adhesive, to avoid transferring oils from your skin.
- To create tape leaders, pull back the approximate 3" of red protective film that was previously left as overhang on the part (Figure 4).

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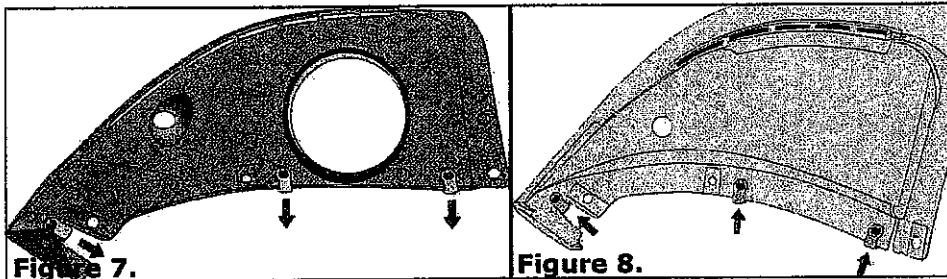
2005 Corvette: Front Chin
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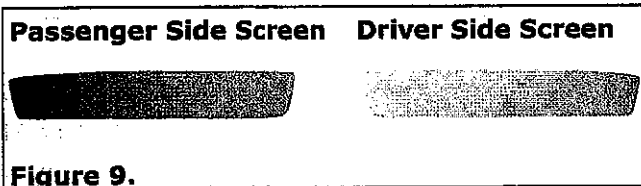
- The excess red protective tape should be folded over to the A-surface of the part and held with paint safe masking tape to act as a 'pull tab' for tape liner release (Figure 5).
- Cut foam tape at end of tape channel using a knife (Figure 6).

7. Final Assembly Preparation:

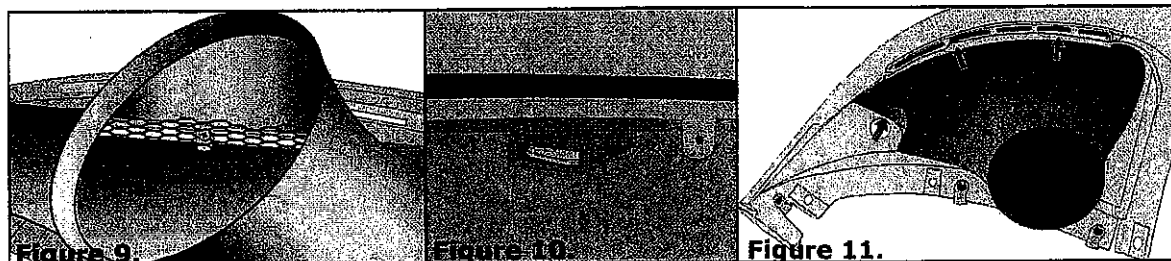
- Remove qty (3) clips from each stock brake duct. Replace clips on front chin in same locations, as shown in Figures 7 and 8.



- Reinstall screens to chin brake duct opening using qty (4) supplied hi/low screws on each side (see Figure 9). **Use Caution** when installing the brake duct screens, as edges are sharp and could cause damage or injury.



- Slide brake duct into place, ensuring that duct slides under screen, and that the clip on the chin locates the brake duct (see Figures 9 and 10). Also make sure that the top of the brake duct rests on the chin shelf and duct clears access hole (Figure 11).



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8. Final Assembly:

- Using a support, or an assistant, lift chin just below fascia on one side of vehicle. Align opposite side of chin with underside of fascia.
- Slide fascia tab under chin shelf, into channel as shown in Figure 12.
- Pull front edge of chin forward of Fascia to avoid inhibiting tab locks during installation (See Figure 13).
- It is also useful to leave outboard edge of chin untucked from fascia, as shown in Figure 14.
- Lock fascia tabs into place by rotating chin from wheel house opening towards the front of the vehicle, pushing each tab down by reaching through the fog lamp opening. Complete tab installation in the order indicated in Figure 16, below, starting with the most outboard tab, shown in Figure 14.

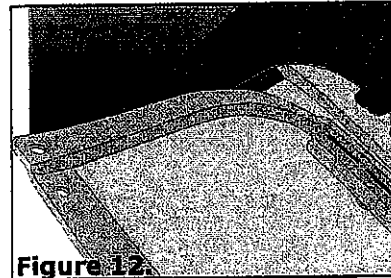


Figure 12.

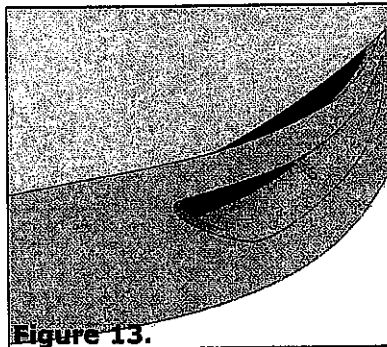


Figure 13.

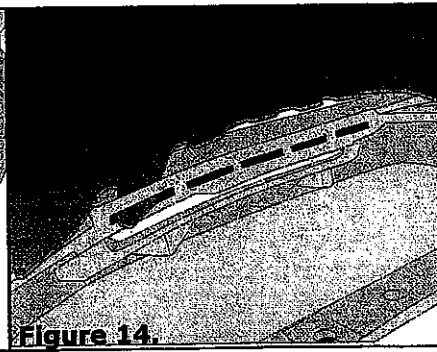


Figure 14.

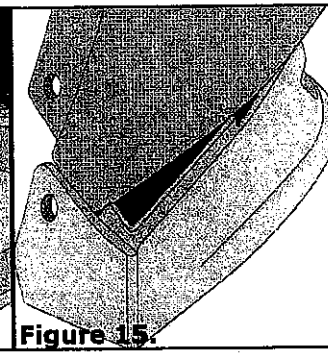


Figure 15.

- Ensure that the three locking tabs (numbered 1, 4 and 5 in Figure 15) have engaged to the gate on the chin.

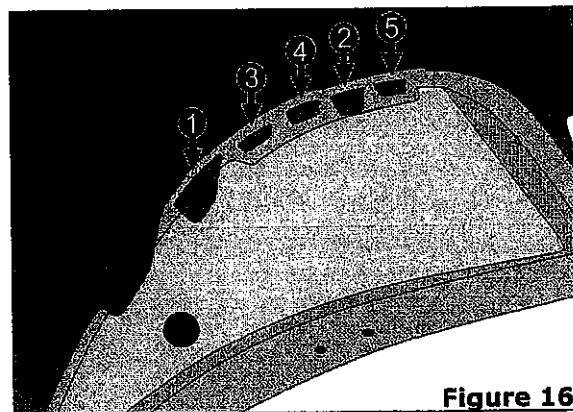


Figure 16.

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- Slide chin towards front of vehicle, aligning hole on chin with stud on bracket.
- Reinstall fog lamps by locking in locating pins on top, rotate lamps forward, and reinstall qty (3) bolts using a 7mm socket and ratchet or driver. Tighten bolts to 2 N•m (18 lb in).
- Install wheel liner with brake duct tube in reverse order of removal.
- Components should be installed to stud in order as shown in Figure 17.
 - Material A: Bracket
 - Material B: Wheel Liner
 - Material C: Front Chin
 - Material D: Front Fascia TabReplace nut and tighten to 5 N•m (44 lb in) using a deep well 10mm socket and ratchet.
- Tuck chin under fascia, ensuring that wheel liner locating tab is behind fascia, and that wheel liner is installed behind chin, as shown in Figure 18.
- Replace qty (8) push pins in wheel liner (3 along top edge, and 5 along outboard edge) for each side (see Figure 19).
- Reinstall qty (2) short screws between wheel liner and chin, using a 7mm socket and ratchet or driver. Tighten to 7 N•m (62lb in) (see Figure 19).
- Reinstall side air dams by replacing qty (3) long screws through air dam to chin, tightening using a 7mm socket and ratchet or driver. Tighten to 7 N•m (62lb in) (see Figure 20).

Figure 17.

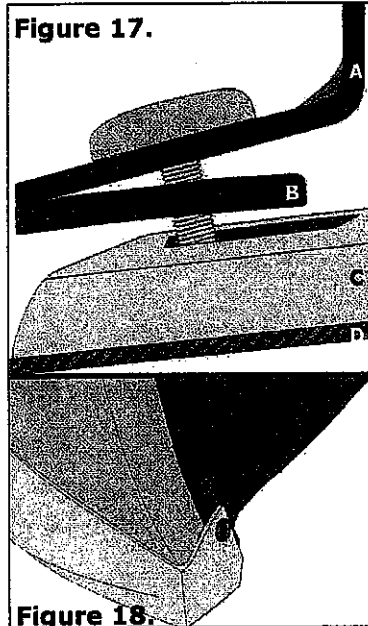


Figure 18.

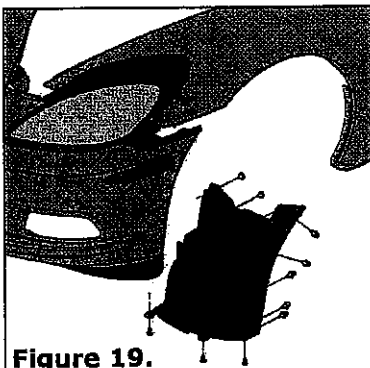


Figure 19.

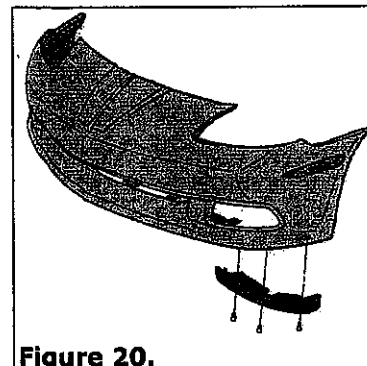


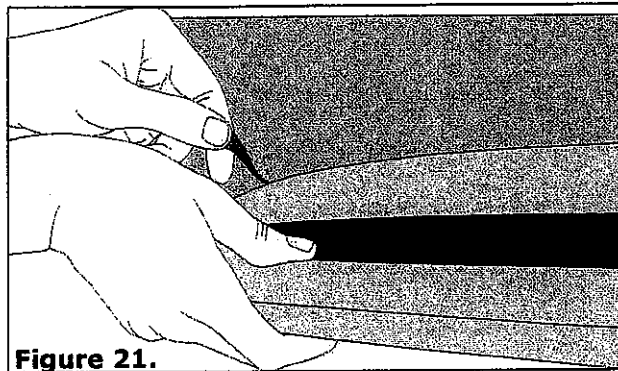
Figure 20.

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- The front peak of the chin should rest approximately 8mm rearward of the front fascia peak. Due to production tolerancing, the peak may not rest as designed, and can be located to correct position per customer discretion.
- Press chin firmly against vehicle while pulling back the red protective film leaders along the edge of the chin, using approximately 30 lbs of force (see Figure 21).



9. Drilling:

- Once the chin has been taped to the base vehicle, holes can be drilled for mechanical fastener installation. Using a 1/4" drill bit and drill motor, drill qty (5) holes through fascia, using chin doghouse holes as a guide. Install qty (5) supplied push pins to lock chin into place.

Question or Concerns?

Contact us at:
(866) 624-7997

Or

Tech@ClassicDesignConcepts.com