

## Chapter 34 - Bumper Installation (Video Clip 34)



1274. Carefully, clean both sides of the bumpers and paint the back side of front and rear bumpers with Rust-Oleum silver metallic paint.

*Work effort this section - 2 hours*



1275. With a fine grade steel wool and chrome polish, clean the bumper fronts.



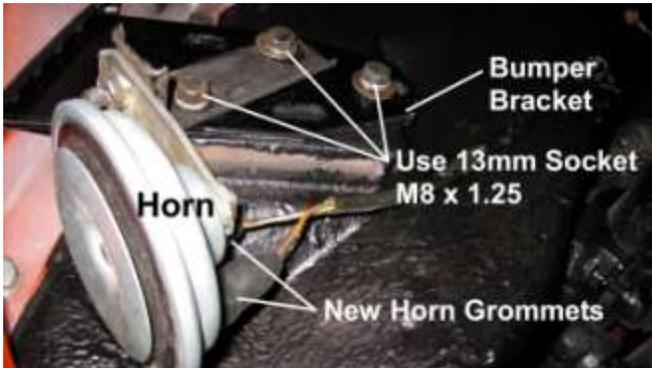
1276. Tape a good quality electrical tape over the front side of each bumper, as shown.



1277. Wrap the tape around to the back side by four or five inches for a secure hold.



1278. Install the front bumper brackets with three M8 x 1.25 bolts on each bracket.



1279. Attach the horn to the left bumper bracket using new rubber grommets over the wire connectors. Use a 13MM socket to install the M8 x 1.25 bolts.



1280. A view of the front bumper installed.

*Work effort this section - 2 hours*



1281. Due to the fender slant on the rear fender I had to trim out the opening a little on the top and bottom, as shown, to get the fender bracket molding so it would lay flat against the fender.



1282. Rear fender brackets installed, as shown.



1283. Rear bumper temporarily installed. The right rear bumper bracket is bent along with the bumper so these will be replaced later.

*Work effort this section - 2 hours*



1284. Exterior is nearly complete

## Installing the Rear Scrapers



1285. To install the rear window scrapers you will need to follow the installation procedure shown below:

1. Install the inner scraper.
2. Install the window.
3. Install the outer scraper.
4. Install the end window molding.



1286. To install the inner scraper, slip the bottom molding lip over the body flange and pull up, for the upper lip to catch. I already installed the window molding in step 1026, and the window in step 1044, but I ended up having to remove the window and reinstall. If you remove the window then the window molding #4 (shown above) can remain on the window.



1287. Install the rear window, then hold the outer scraper up to make sure the holes match the body holes, which mine did.



1288. Connect the outer scraper with two stainless steel screws as shown.



1289. Rear scrapers completed. Repeat for opposite side rear window.

*Work effort this section - 3 hours*

### Installing the Front Scrapers



1290. I revised chapter 29 (window installation), step 1049 to include installing the inside window scrapers prior to installing the windows. Maybe this will help someone else, but it cost me at least a half a day. After a couple of e-mails to Christopher Vallone, a VW Restorer expert, took his advice and removed the window and vent window frame, as shown below.



1291. Move the window handle until the clip is within view of the door window access hole, then with a flathead screwdriver remove the two clips.



1292. Window and vent frame removed.



1293. With the window and vent frame removed, I started installing the inside window scraper. Cut out the inside vent window scraper, as shown, for the door brace.



1294. The inside vent window scraper installed, as shown from the outside of the car.



1295. The inside vent window scraper installed, as shown from the inside of the car with the vent frame in place.



1296. Use a wood stick to pry the top of the inside window scraper up and over as necessary and push with your finger to slide the bead into the slot.



1297. The inside window scraper shown installed.



1298. The front window shown after it was re-installed.



1299. Install the outside window scraper with 2 stainless steel screws.

*Wasted Work time - 4 hours  
Work effort this section - 3 hours*

Repeat procedure for the opposite side front window.

*Work effort this section - 2 hours*



1300. Install both wedges for the rear quarter window with the original stainless steel screws.



1301. Install both wedges for the front quarter window with the original stainless steel screws.



1302. Install both wedges for the front door with stainless steel screws.

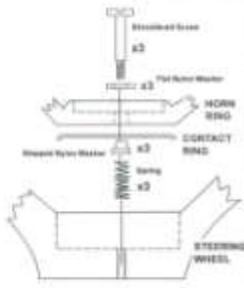


1303. There is a wedge for the top of the front window but since I extended the window molding out, I did not cut it off and install the wedge since it would have looked the same either way



1304. Clean up the steering wheel and horn ring and get the horn ring repair kit ready.

## Horn Ring Repair Kit



No two Rings/Steering Wheel Install the same. Experience has shown that the screws are sometimes, but not always tightened all the way. On some steering wheels, tightening down the horn rings all the way can cause the horn to sound all of the time. The solution to this is to back off the screws 1/2 to 1 - 1/2 turns.

It is important that the nylon washers are installed correctly or the horn may continually sound regardless of the tightness of the attachment screws.

1305. The horn ring repair kit came with some extra screws and springs. Install per the direction shown.



1306. Install the steering wheel using a 1/16 inch socket.



1307. Install the horn ring with the new horn ring installation kit and add the rubber grommet to protect the horn wire.



1308. Add the original horn button, making sure it is positioned straight.



1309. Install the tag.

*Work effort this section - 2 hours*

*Work effort this chapter - 20 hours*

*Total hours - 548*



1310. The exterior is now complete, except for the convertible top. (Side View)



1311. The exterior is now complete, except for the convertible top. (Back View)