

97-06 Jeep Wrangler TJ

Set Part #10920-07

Rev-3 12-15-08

STEP 1 - PRIOR TO INSTALLATION

- A)** Bushwacker only approves installing the flares according to these written instructions with the hardware provided. **WARNING:** Failure to install according to these instructions will invalidate the warranty. This includes, but is not limited to using alternative installation methods, hardware, or materials. **DO NOT USE:** Loctite, SuperGlue, or similar products on the hardware or the flares.
- B) Fit:** Verify the fit of the flares to vehicle. (Some filing, sanding, or cutting may be necessary to ensure proper fit).
- C) Painting:** (Optional) if paint is desired it must be done prior to installing flares on the vehicle. Clean outer surface with a good grade degreaser. **DO NOT USE LACQUER THINNER OR ENAMEL REDUCER AS A DEGREASER.** Wipe outer surface thoroughly with a tack rag prior to paint. Application of plastic adhesion promoter for TPO plastic as per your paint system manufacturer's recommendations is required. Paint flares using a high quality enamel, or polyurethane automotive paint. If painting edge trim (not recommended), use a flex additive.
- D) Performance:** Using larger Tires may increase the area required to turn the vehicle. Some Tire/Rim combinations may require lowering bump stops and or installing steering stops to prevent tire from contacting flare.
- E) Exhaust System:** Modifications may be necessary to maintain a minimum 4" clearance between flares and exhaust pipes. (Exhaust gases should not vent directly onto flares)
- F) Metal Protection:** All exposed fasteners and bare metal should be treated with rust resistant paint **BEFORE** installing flares. Spray inner fender wells with undercoating **AFTER** flare attachments have been completed.
- G) Decals:** Flares may interfere with existing decals on vehicle. If you wish, remove decals prior to installation of flares.

FLAT FLARE STYLE














TOOLS FOR EASY INSTALLATION:

- Utility Knife
- #2 Phillips Drive Bit
- Electric Drill
- 5/16" Drill Bit
- #2 Phillips Screwdriver
- Socket Wrench
- 5/16" & 11/32" Sockets
- 5/16" Wrench
- 6" Socket Extension
- Needle Nose Pliers
- Scratch Awl (optional Step 27, 61)
- Wire Cutter & Stripper
- 22-18 Gauge Wire Crimp
- Soft Wiping Cloth/Shop Towels
- Heat Shrink Tubing (optional, Step 16, 22)
- Electrical Tape (optional, Step 16, 22)
- Pry bar/Claw Hammer
- Safety Glasses
- Helper/Partner

LIMITED LIFETIME WARRANTY AGAINST ANY MANUFACTURING DEFECTS

- To claim a warranty, you must provide Proof of Purchase.

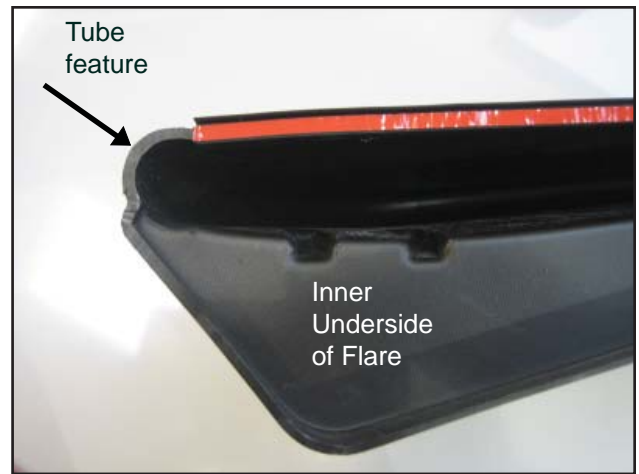
Included in Hardware Kit

- | | | | | | | | |
|--|---|---|---|---|---|---|---|
| 1. 
Pan Head Screw, 24 pcs | 2. 
Speed Clip, 24 pcs | 3. 
Washer, 30 pcs | 4. 
1/4" Rubber Spacer, 26 pcs | 5. 
M5-.8 Machine Screw, 26 pcs | 6. 
Flange Nut, 14 pcs | 7. 
8-32 Screw, 4 pcs | 8. 
8-32 Nut, 4 pcs |
| 9. 
LED Side Marker Light, 2 pcs | 10. 
Side Reflex Reflector, 2 pcs | 11. 
Male Wire Connector, 4 pcs | 12. 
Female Wire Connector, 4 pcs | 13. 
Edge Trim Tool, 1 pc | 14. 
Edge Trim, 250 in. | | |

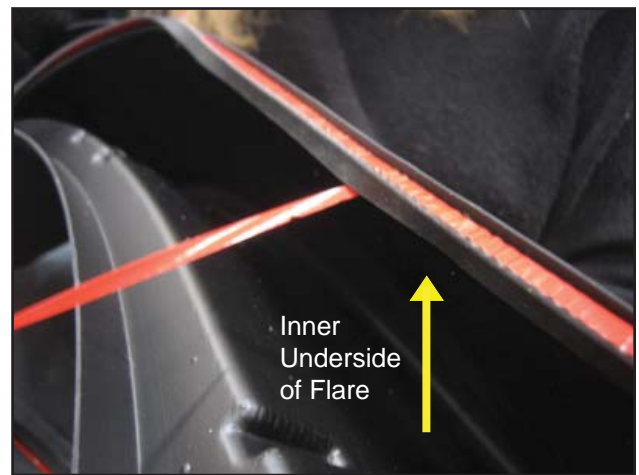
STEP 2 - EDGE TRIM INSTALLATION (DO NOT INSTALL EDGE TRIM ON THE SMALLER INNER PIECES! ONLY THE FLARE PIECES NEED IT!)

The edge trim for this application is double-tape edge trim so special care needs to be taken while installing. There is red vinyl backing on the inside of the edge trim where it will adhere to the flare and red vinyl backing on the outside where it will adhere to the vehicle. The following steps only concern where the edge trim will adhere to the flare. Additional edge trim installation instructions are included during the rest of the installation process.

- A) Peel two to three inches of red vinyl backing away from edge trim tape. Applying the adhesive side of the edge trim to the inner side of the flare, affix the edge trim to the top edge of the flare (the portion that comes in contact with the vehicle). Stop at tube feature of flare. **Picture 1 for tube feature reference**
- B) Press edge trim into place along the top edge of the flare in one-foot increments, pulling red vinyl backing free as you continue to work your way around the top edge of the flare. **Picture 2 for additional edge trim orientation**



Picture 1



Picture 2

Front Flare Installation Procedures (Driver's Side)



Unplug the factory installed side marker lamp by twisting the bulb housing in a counterclockwise direction. This is located at the front of the factory flare on the backside in the wheel well.



Remove the factory installed fender flare and rocker guard screws with a 5/16" socket wrench. (13 locations on the backside of the flare.) Save rocker guard hardware.



Remove the factory installed fender flares. Thoroughly clean the exposed metal fender with a damp cloth and dry.



Locate the flat flare front inner pieces. The driver side front inner pieces are marked D1 & D2. The passenger side front inner pieces are marked P1 & P2.



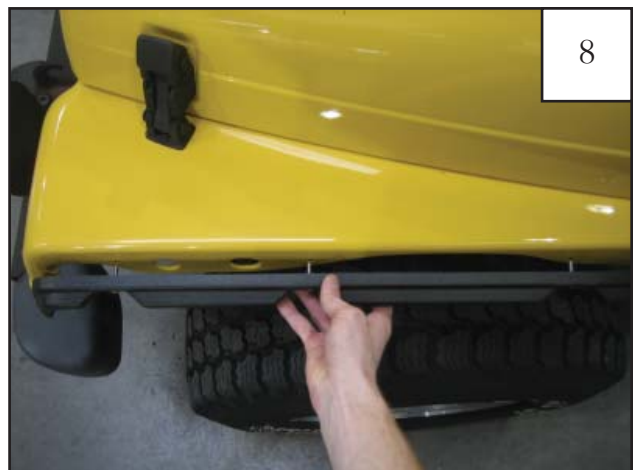
Put an M5-.8 machine screw and washer through the top holes of the inner pieces and secure with a 1/4" rubber spacer on the underside of the inner piece.



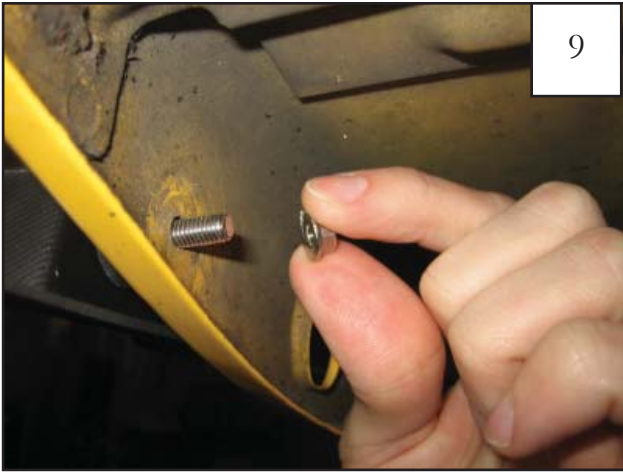
Push the rubber spacer and machine screw together until they are both tight against the inner piece. Spacer has been lightened in picture for visibility.



Install a speed clip at each clip location on the inner pieces, centering them on the predrilled holes. (6 locations) *NOTE: Clips slide out of place easily. Try pinching the metal tightly onto the inner piece with pliers.*



Secure inner piece D1 (and P1 for passenger side installation) to the sheet metal using the following **3 Steps: Step 1** Line up the M5-.8 machine screws with the factory hole locations and push them into place.



Step 2 Attach flange nuts to the threads on the M5-.8 machine screws and hand tighten.



Step 3 Fully tighten flange nuts using a 5/16" socket and wrench and use a # 2 Phillips bit for the M5-.8 machine screws.



Secure inner pieces D2 (and P2 for passenger side installation) to the sheet metal using the following 2 Steps: **Step 1** Line up the M5-.8 machine screws with the factory hole locations.



Step 2 While holding the inner piece in place, use a #2 Phillips bit to tighten the M5-.8 machine screws into the factory mounted nuts.



Use wire cutters to cut the two wires at the base of the factory side marker lamp.

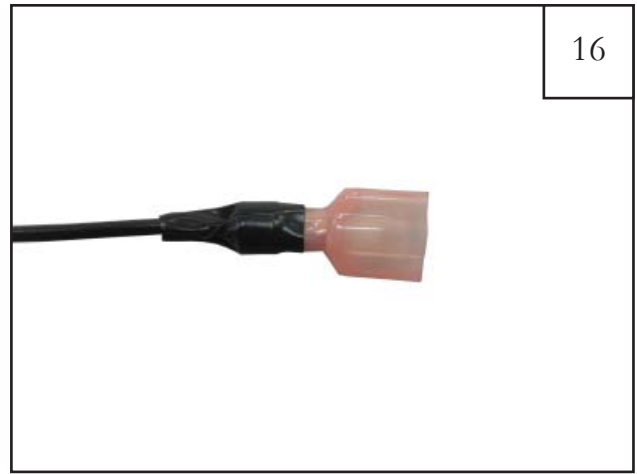


Use wire strippers to strip away approximately 3/8" of wire covering from the factory installed side marker lamp wires.



15

Install a *Male Wire Connector* to the end of *each* factory side marker light wires and secure by pressing firmly with a wire crimp.



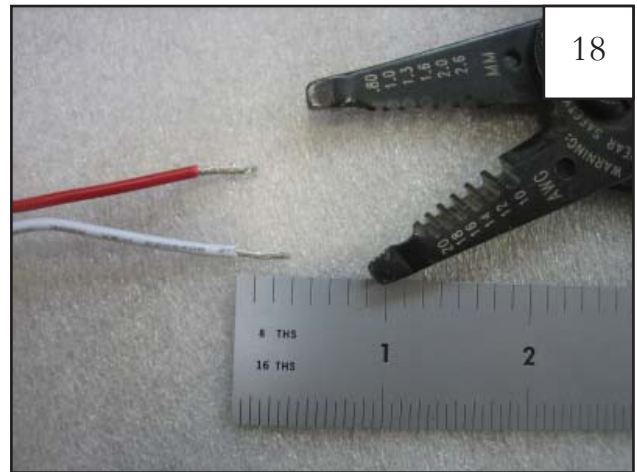
16

Seal with electrical tape or heat shrink tubing if desired.



17

Use wire cutters to cut the eyelet from the supplied side marker light.



18

Using wire strippers, strip away approximately 3/8" of wire covering from the supplied side marker light wires.



19

Position the supplied side marker light onto the outer flare piece, threading the wires through the *center* predrilled hole.



20

Secure the side marker light to the outer flare with 8-32 screw, 8-32 nut, and washer using a #2 Phillips bit and a 11/32" socket with 6" extension. (2 places)
NOTE: If you are having trouble putting the washer and nut on the screw, use needle nose pliers.



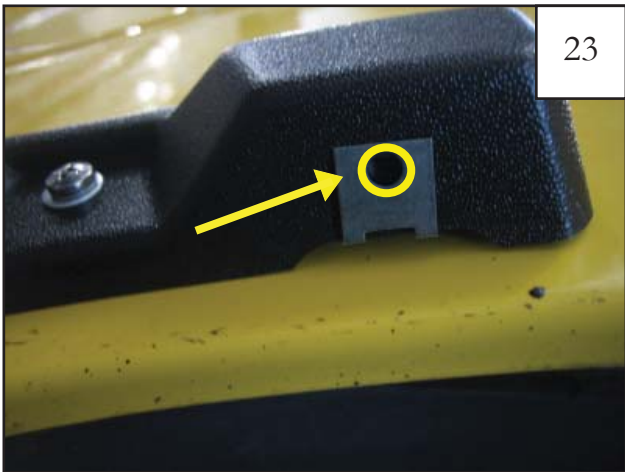
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Install a *Female Wire Connector* to the end of *each* supplied side marker light wires and secure by pressing firmly with a wire clamp.



22

Seal with electrical tape or heat shrink tubing if desired.



23

Before installing the outer flare, make sure that the speed clips on the inner pieces are centered over the predrilled holes.



24

Use one supplied alcohol prep pad to clean the *sheet metal* above each inner piece in preparation to tape the edge trim to the sheet metal. *This must be done for proper flare installation.*



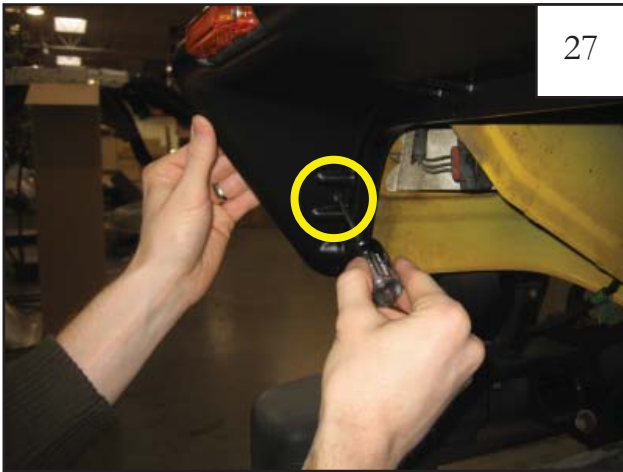
25

Peel back 1-2" of red liner on each end of the edge trim and bend toward the outside of the flare.



26

Place the outer flare over the inner pieces and push until snug against the sheet metal. Make sure that the side marker light wires are below the front inner piece.



27

Use a scratch awl (or another pointed tool) to line up the speed clips with the outer flare holes (6 locations). If needed, use a flashlight to better locate the speed clips.



28

Hold flare in place on fender and start a #8 pan head screw into each hole location and through speed clip on inner structure (6 places). Do not tighten.



Press
Firmly

29

Tighten the #8 pan head screws by *firmly* pressing the flare toward the vehicle *while* tightening.



30

Connect the side marker light wires with the vehicle wires by attaching the male connectors to the female connectors. Test the connection by turning on the front turn signal. Switch connectors if necessary.



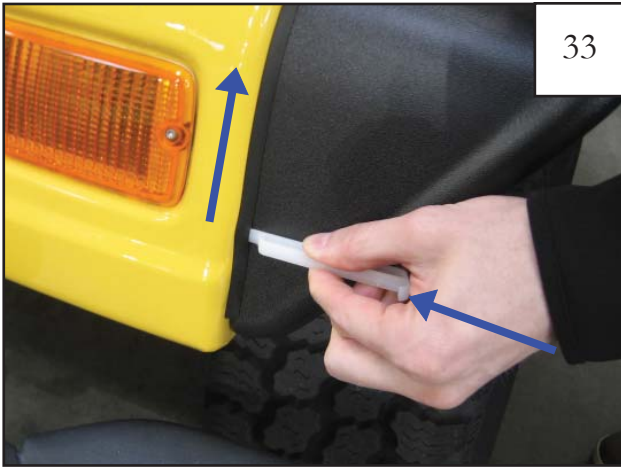
31

Peel outer tape liner from the double-tape edge trim. Push down *lightly* on the fender flare to create a small gap between the sheet metal and the edge trim. This makes it easier to pull the red liner.



32

After the red liner is removed, *firmly* press the flare toward the vehicle for 10 seconds to adhere the tape to the vehicle surface. Repeat this process for the entire length of the flare. The vehicle surface temperature must be between 65-110° F for proper adhesion. Allow 24 hours for full adhesion.



33

Starting at one end, use the flat edge of the supplied edge trim tool to further adhere the edge trim to the vehicle surface. Slide the tool along the edge trim while pressing it in toward the vehicle surface.



34

Use the hooked end of the edge trim tool to check for full adhesion. Do this by sliding it along the top of the edge trim to visually verify that the tape is adhered to the vehicle surface. Repeat step 33 if tape is not fully adhered to the vehicle surface.



35

To reinstall the factory rocker guard you will need to modify the hole locations. First, mark about 3/8" from each of the hole locations. NOTE: See end of front flare installation for additional suggestion on rocker guards.



36

Use a 5/16" drill bit to drill a hole at each of the marks made in step 35



37

Using a 5/16" socket and wrench, reattach the factory rocker guard with the factory hardware removed and saved during step 2.



38

Attach one side reflex reflector to the side of the vehicle by peeling off the adhesive backing and pressing it firmly onto the cleaned vehicle surface. NOTE: Once reflector has adhered it cannot be repositioned.



Completed front driver's side flare installation.



Rocker Panel



Bushwacker's Trail Armor Rocker Panel is a great replacement for the factory rocker guard. Bushwacker Part Number: #14002

Rear Flare Installation Procedures (Driver's Side)



Using a pry bar or claw hammer, remove the christmas tree fasteners then remove/loosen the rear wheel well skirting. Save fasteners for reinstallation.



Remove the factory installed fender flare screws with a 5/16" socket wrench. (8 locations)



42

Thoroughly clean the exposed metal fender with a damp cloth then dry



43

Locate the new flat flare rear inner pieces. The driver side rear inner pieces are marked D3, D4, and D5. The passenger side rear inner pieces are marked P3, P4, and P5.



44

Screw
Washer

Put an M5-.8 machine screw and washer through the top holes of the inner pieces and secure with a 1/4" rubber spacer on the underside of the inner piece.



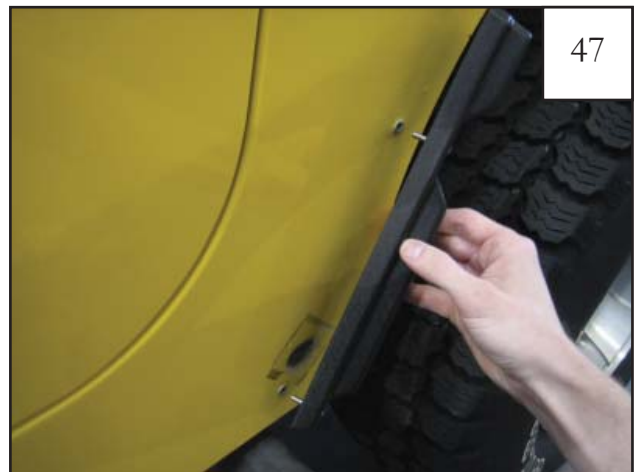
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Push the rubber spacer and M5-.8 machine screw together until they are both tight against the inner piece. Spacer has been lightened in picture for visibility.



46

Install a speed clip at each clip location on the inner pieces, centering them on the predrilled holes. (6 locations) *NOTE: Clips slide out of place easily. Try pinching the metal tightly onto the inner piece with pliers.*



47

Secure inner piece D3 (and P3 for passenger side installation) to the sheet metal using the following **2 STEPS: Step 1** Line up the M5-.8 machine screws with the factory hole locations.



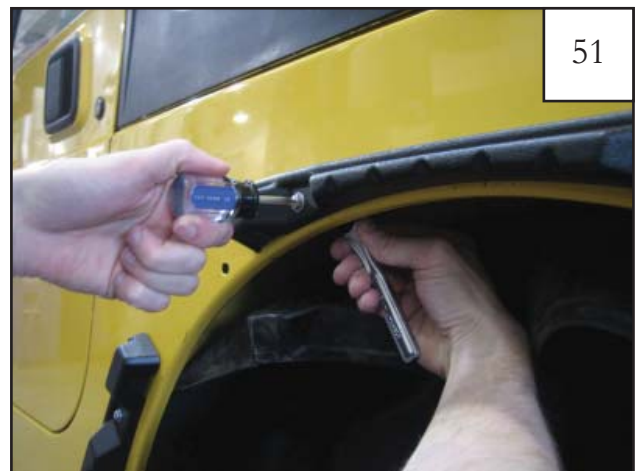
Step 2 While holding the inner piece in place, use a #2 Phillips bit to tighten the M5-.8 machine screws into the factory mounted nuts.



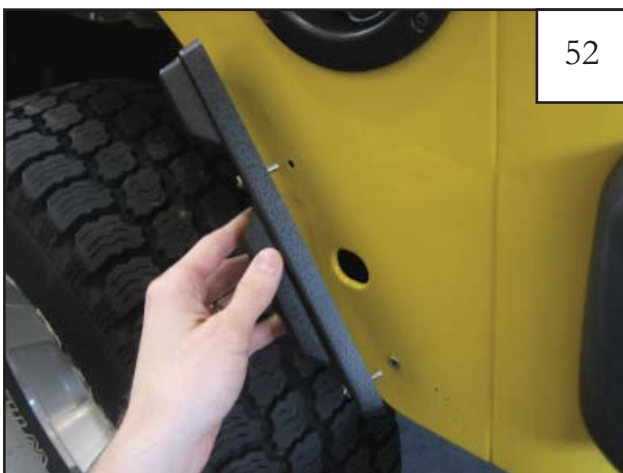
Secure inner piece D4 (and P4 for passenger side installation) to the sheet metal using the following **3 STEPS: Step 1** Line up the M5-.8 machine screws with the factory hole locations and push them into place.



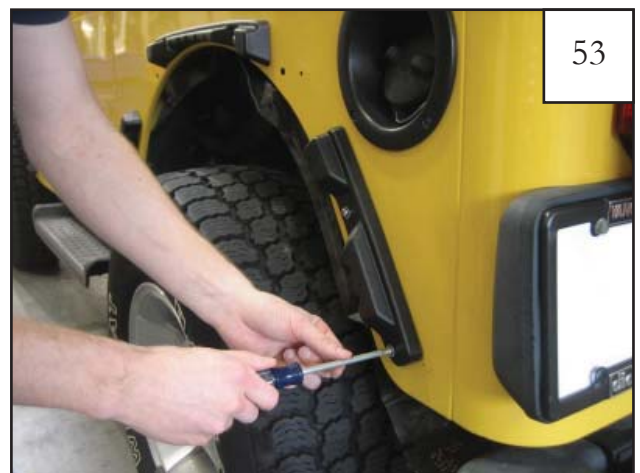
Step 2 Attach flange nuts to the threads on the M5-.8 machine screws and hand tighten.



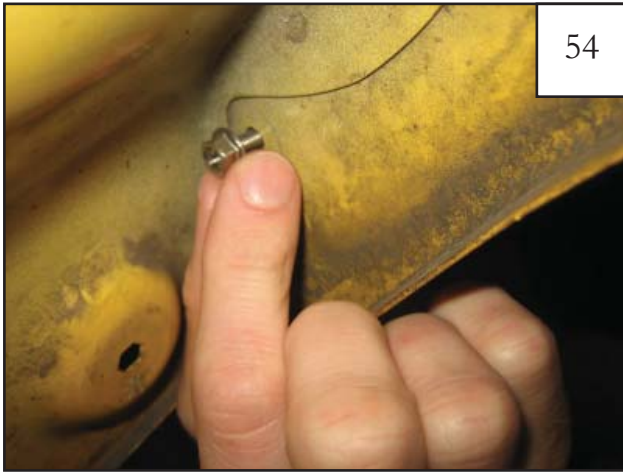
Step 3 Use a 5/16" wrench for the flange nuts and a #2 Phillips bit for the machine screws and fully tighten inner piece to the fender.



Secure inner piece D5 (and P5 for passenger side installation) to the sheet metal using the following **4 STEPS: Step 1** Line up the M5-.8 machine screws with the factory hole locations.



Step 2 While holding the inner piece in place, use a #2 Phillips bit to start the M5-.8 machine screw into the factory mounted nut. Do not tighten.



Step 3 Attach a flange nut to the threads on the M5-.8 machine screw and hand tighten.



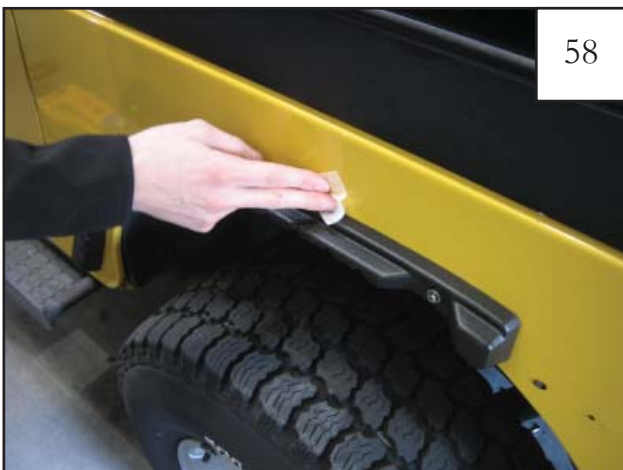
Step 4 Use a 5/16" wrench for the flange nut and a #2 Phillips bit for the M5-.8 machine screws and fully tighten inner piece to the fender.



Reinstall the rear wheel well skirting using the christmas tree fasteners removed and saved in step 40.



Before installing the outer flare, make sure that the speed clips on the inner pieces are centered over the predrilled holes.



Use one supplied alcohol prep pad to clean the *sheet metal* above each inner piece in preparation to tape the edge trim to the sheet metal. *This must be done for proper flare installation.*



Peel back 1-2" of red liner on each end of the edge trim and bend toward the outside of the flare.



Place the outer flare over the inner pieces and push until snug against the vehicle surface.



Use a scratch awl (or another pointed tool) to line up the speed clips with the outer flare holes (6 locations). If needed, use a flashlight to better locate the speed clips.



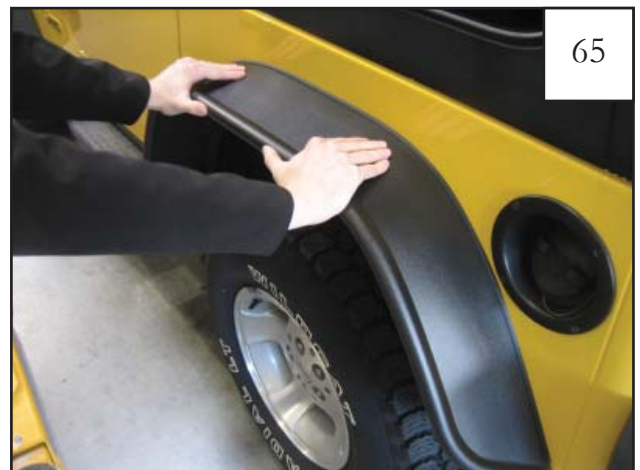
Hold flare in place on fender and start a #8 pan head screw into each hole location and through the speed clip on inner structure (6 locations). Do not tighten.



Tighten the #8 pan head screws by *firmly* pressing the flare toward the vehicle while tightening the screws.



Peel outer tape liner from the double-taped edge trim. Push down *lightly* on the fender flare to create a small gap between the sheet metal and the edge trim. This makes it easier to pull the red liner.



Firmly press the flare toward the vehicle for 10 seconds to adhere the tape to the vehicle surface. Repeat this process moving along the entire length of the flare. The vehicle surface temperature must be between 65-110° F for proper adhesion. Allow 24 hours for full adhesion.



Starting at one end, use the flat edge of the supplied edge trim tool to further adhere the edge trim to the vehicle surface. Slide the tool along the edge trim while pressing it in toward the vehicle surface.



Use the hooked end of the edge trim tool to check for full adhesion. Do this by sliding it along the top of the edge trim to visually verify that the tape is adhered to the vehicle surface. Repeat step 66 if the tape is not fully adhered to the vehicle surface.



Completed rear driver's side flare installation.