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Rusty's Front Steel Fenders - '97-'06 TJ / LJ Wrangler RA-MF22000 INSTALLATION INSTRUCTIONS

Last Revised: 7/29/2019

Introduction:

Rusty's recommends that this installation be performed by a certified automotive technician or a person with professional mechanical knowledge. Installing this kit without this expertise may jeopardize the handling and safety of the vehicle.

Read instructions several times before starting. Be sure you have all the needed parts and know where they install. Read each step completely as you go. Exhaust modifications may be necessary. Prior to drilling or cutting, check behind the surface being worked on for any wires, lines, or hoses that could be damaged. After any drilling or cutting, remove burrs and grind smooth any surfaces. An inclinometer or similar tool may be needed to measure driveshaft angles before and after the installation.

Warning:

- It is the owners' responsibility to inspect all Rusty's products for proper torque specs to prevent loosening of components.
- Seat belts and shoulder harnesses should be worn at all times.
- Re-check all bolts and nuts after the first 100 miles and after any off-road usage during the first 300 miles.
- Although all of our products are made from the highest quality materials possible, they are not a substitute for Safe and Careful driving. In other words, have good safe on-road / off-road sense. Know the terrain, the speed limitations, and any obstacles that may lie ahead. Please remember to preserve our right to enjoy public land through the proper use of off-road vehicles.

Before Starting Installation:

- 1. Carefully Read all warnings and instructions completely before beginning.
- 2. Verify all parts have been received in this kit by checking the parts list on page#2 of this document.
- 3. Only install this kit on the vehicle for which it is specified.
- 4. Park the vehicle on a clean, dry, flat, level surface and block the tires so the vehicle cannot roll in either direction.
- 5. Be certain the vehicle is safely secured on jack stands or a vehicle lift prior to working around or under a vehicle. Never rely on a jack alone to support a vehicle's weight; use appropriately rated stands to support the vehicle's frame an any other heavy components.



RA-MF22000 Parts List:

Note: Please be sure that you have all the provided parts listed below before continuing with the installation.

Part #	DESCRIPTION:	<u>Quantity</u>
RA-MF22000-PS	Rusty's Front Passenger Side Fender	1
RA-MF22000-DS	Rusty's Front Driver Side Fender	1
68017920	M8 x 1.25mm x 25mm Length Button Head Cap Screw	6
68025162	M8 x 16mm O.D. Flat Washer	6
n/a	3/4" Round Smoked LED Light	2

RA-MF22505 Parts List: (If Purchased with RA-MF22000 or RA-MK22K

Note: Please be sure that you have all the provided parts listed below before continuing with the installation.

Part #	DESCRIPTION:	Quantity
RA-MF22505-PS-FI	Rusty's Front Passenger Side Front Inner Fender Panel	1
RA-MF22505-PS-RI	Rusty's Front Passenger Side Rear Inner Fender Panel	1
RA-MF22505-DS-FI	Rusty's Front Driver Side Rear Inner Fender Panel	1
RA-MF22505-DS-RI	Rusty's Front Driver Side Front Inner Fender Panel	1
RA-MF22505-BT	Rusty's Battery Tray	1
RA-MF22505-WRMB	Windshield Washer Fluid Reservoir Mounting Bracket	1
67563080	1/4"-20 x 3/4 Length Button Head Cap Screw	32
67483768	1/4"-20 Serrated Flange Nut	30
87920112	1/4" x 1" O.D. Fender Washer	2
67744441	1/4"-20 (.025"15 Opening) U-Nut	2



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Factory Fender Removal Instructions

Note: Save all factory components and hardware for reuse, unless noted.

- 1. Park the vehicle on a level work surface and set the parking brake to prevent any movement while completing the installation process.
- 2. Open the hood of the vehicle.
- 3. Disconnect the battery terminals from the battery.
- 4. Remove the components listed below from the driver side inner fender well of the vehicle. Disconnect and remove all wiring harnesses on the fender well. It is a good idea to label the location of each wiring harness to prevent any confusion during the reassembly process. (**Note:** Retain all factory hardware.)
 - Horn
 - Washer Fluid Reservoir
 - EFI Module
- 5. Remove the components listed below from the passenger side inner fender well of the vehicle. Disconnect and remove all wiring harnesses on the fender well. It is a good idea to label the location of each wiring harness to prevent any confusion during the reassembly process. (**Note:** Retain all factory hardware.)
 - Airbox
 - Fusebox
 - Battery & Battery Trey
 - Vacuum Canister (If Equipped)
- 6. Ensure that all wiring harnesses are removed from the inner fender wells or moved out of the way so that the fenders can be removed without damaging.
- 7. Remove the battery trey from passenger side of the vehicle by removing the factory (Qty:4) M8X25X20 Hex Head Bolts with the use of a 13mm socket.



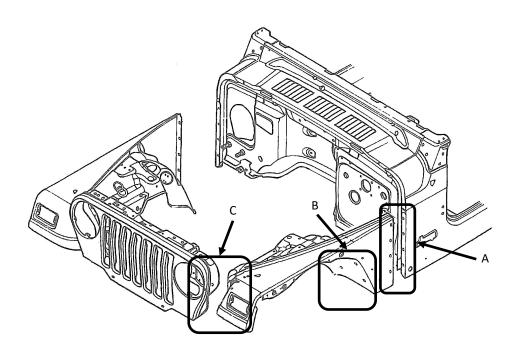
Factory Fender Removal Instructions

Note: Save all factory components and hardware for reuse, unless noted.

8. Remove the vacuum canister from the vehicle if equipped. This will be able to be accessed once the battery tray has been removed.



- 8. Remove the hood latches and the small oval bump stops on both the driver and passenger side fenders.
- Disconnect the turn signal and side marker lights from the driver and passenger fenders. Disconnect where the wiring harness is clipped to the fender and move the secure the wiring to prevent damaging.
- 10. Remove both the driver and passenger side fenders from the vehicle. Remove the (Qty:14) 13mm bolts per fender with the use of a 13mm socket. (**Note:** Save all mounting hardware.)
 - A. Remove the (Qty:4) bolts that secure the fender to the tub of the vehicle.
 - B. Remove the (Qty:4) bolts that are located inside of the fender well.
 - C. Remove the (Qty:6) bolts that are secure the fender to the grille of the vehicle.





Factory Fender Removal Instructions

Note: Save all factory components and hardware for reuse, unless noted.

- 11. If your was equipped with the vacuum canister removed during step 8 complete the following steps to install to the vacuum canister to the supplied Rusty's Front Passenger Side Rear Inner Fender Panel.
 - A. Position the Rusty's Front Passenger Side Rear Inner Fender Panel on a padded work surface in same orientation as it would be installed in the vehicle.
 - B. Position the vacuum canister 4.75" from the bottom edge of the Rusty's Front Passenger Side Rear Inner Fender Panel as shown in the image below.



C. Position the vacuum canister 2.25" from the long straight edge of the Rusty's Front Passenger Side Rear Inner Fender Panel as shown in the image below.



- C. Make sure that the vacuum canister is rotated so that the hose port is facing upwards as shown in both images below then mark the hole locations.
- D. Center punch and drill the marked hole locations with the use of a 5/16" (0.3125") drill.
- E. Do not install the vacuum canister at this time and set aside until instructed to install.



Note: Save all factory components and hardware for reuse, unless noted.

12. Position all the remaining wiring harness and hoses to towards the center of the engine compartment to keep out of the way as you complete the installation.



- 13. Install the supplied Rusty's Front Driver Side Fender with the use of (Qty:4) of the factory hardware removed in step 10-A. (**Note:** Do not fully tighten the hardware to allow for some movement inward and outward.)
- 14. Install the supplied Rusty's Front Driver Side Rear Inner Fender Panel with the help from an assistant, by pulling outward on the Rusty's Front Driver Side Fender. So that you can install the fender behind the fender mounting surface as shown in the images below. Secure using (Qty:2) 1/4"-20 x 3/4 Length Button Head Cap Screws and (Qty:2) 1/4"-20 Serrated Flange Nuts. (**Note:** Do not fully tighten the hardware to allow for some movement inward and outward.)







- 15. Install the supplied Rusty's Front Driver Side Front Inner Fender Panel with the help from an assistant by following the listed steps below.
 - A. Align the hole locations of the Rusty's Front Driver Side Front Inner Fender Panel with the mounting surface of the Rusty's Front Driver Side Rear Inner Fender Panel located directly behind the shock mounting point, shown in the image below. Position the Front Inner Fender Panel behind the surface of the Rear Inner Fender Panel.



B. Align the hole locations of the Rusty's Front Driver Side Front Inner Fender Panel with the mounting surface of the Rusty's Front Driver Side Fender located along top surface of the fender where the vehicle hood would sit, shown in the image below.





C. Install the supplied (Qty:5) 1/4"-20 x 3/4 Length Button Head Cap Screws and (Qty:5) 1/4"-20 Serrated Flange Nuts into hole location in order to hold the fender assembly together. (**Note:** Do not fully tighten the hardware to allow for some movement inward and outward.)

Factory Fender Removal Instructions

16. Fasten the front inner fender panel to the backside of the grill as shown in the image below with the retained factory hardware. (**Note:** Do not fully tighten the hardware to allow for some movement.)



- 17. Loosen the factory hardware that secures the both of the grille support rods, located at both the grill and body side of the engine compartment.
- 18. Install the supplied (Qty:3) M8 x 1.25mm x 25mm Length Button Head Cap Screws and (Qty:3) M8 x 16mm O.D. Flat Washer into hole locations in the fender that align with the hole location on the side of the grille. You will likely need to move the grill and fenders around in order to get the mounting points aligned correctly. (**Note:** Do not fully tighten the hardware to allow for some movement inward and outward.)
- 19. At this time install the supplied (Qty:) 1/4"-20 x 3/4 Length Button Head Cap Screws and (Qty:) 1/4"-20 Serrated Flange Nuts into any of the hole locations that secure the inner fender assemblies to the fender or to one another. (**Note:** Do not fully tighten the hardware to allow for some movement inward and outward.)

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- 20. Repeat steps 12-18 to install the supplied Rusty's Front Passenger Side Fender and the Rusty's Front Passenger Side Inner Fender Panels.
- 21. Align the installed fender assemblies with body by completing the following steps.
 - A. Adjust the driver and passenger side fender assembly to align the fender with the body where the fender attaches to the body.
 - B. Adjust the driver and passenger side fender assembly to align the surface on the top of the fender with the horizontal body line of the vehicle.
 - C. Tighten the (Qty:4) factory bolts on each side of the vehicle once satisfied with adjustment of the fenders.
- 22. Install the factory hood latches with factory hardware on both the Rusty's Driver and Passenger Side Fenders. (**Note:** The hardware can be tighten to factory specs at this time but may need to be adjusted once in further steps.)
- 23. Carefully close the hood and latch the driver and passenger hood latches.
- 24. Align the installed fender assemblies with hood by completing the following steps.
 - A. Adjust the driver and passenger side fender assembly to align the fender with the hood to ensure that gap between the hood and the top surface of the fenders are evenly matched.
 - B. Tighten the (Qty:3) M8 x 1.25mm x 25mm Length Button Head Cap Screws on each side of the vehicle once satisfied with adjustment of the fenders.
 - C. Readjust the hood latches at this time if needed.
- 25. Open the hood of the vehicle again.
- 26. Tighten the (Qty:3) factory bolts on each side of the vehicle where the Rusty's Front Inner Fender Panels mount to the back side of the grille installed during step 16.
- 27. Tighten the (Qty:9) 1/4"-20 x 3/4 Length Button Head Cap Screws and (Qty:) 1/4"-20 Serrated Flange Nuts on each side of the vehicle that not been tightened yet as instructed in the previous steps to allow for adjustment.
- 28. Tighten the factory hardware that secures the both of the grille support rods, located at both the grill and body side of the engine compartment. Tighten the hardware at the body side first followed by the hardware at the grille.



- 29. Install the factory oval bump stops removed from the factory fenders during step 8 on both the driver and passenger side of the fenders. If the gap distance along the hood and the fender is too tight the use of these bump stops is not required since the hood is also supported by two larger bump stops on the top side of the grille.
- 30. Install the supplied Rusty's Battery Tray by completing the following steps.
 - A. Install the factory battery temperature sensor to the hole cutout in the supplied Rusty's Battery Trey as shown in the image below.



B. Install the (Qty:2) factory nuts on the passenger side firewall to the two studs shown in the image below. Leave about 1/4" of threads left from tightening the nuts completely.



- C. Install the supplied Rusty's Battery Trey by positioning the trey on the two factory stud locations on the passenger side of the firewall.
- D. Install the supplied (Qty:1) 1/4"-20 x 3/4 (1/2")?? Length Button Head Cap Screw and (Qty:1) 1/4"-20 Serrated Flange Nut (**Note:** Do not fully tighten the hardware to allow for some movement.)
- E. Have assistant apply downward pressure on the battery tray to complete the following steps.



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- F. Tighten the (Qty:2) factory nuts on the firewall with the use of a short socket. The nut on the passenger side stud can be accessed from the bottom gap between the inner fender and the firewall to be tightened. The nut closest to the engine can be accessed from the engine bay.
- G. Tighten the (Qty:1) 1/4"-20 x 3/4 (1/2")?? Length Button Head Cap Screw and (Qty:1) 1/4"-20 Serrated Flange Nut during step 30-D.

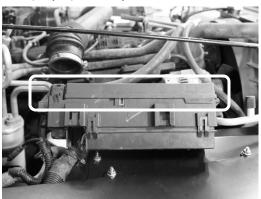


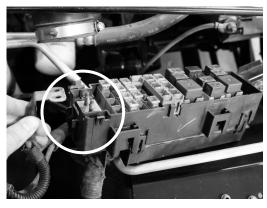
- 31. Install the factory vacuum canister if equipped by completing the following steps.
 - A. Install the supplied (Qty:2) 1/4"-20 (.025"-.15 Opening) U-Nuts to the vacuum canister and align with the holes on each side of the canister.
 - B. Reroute the vacuum canister vacuum hose to the engine side of the battery trey.
 - C. Attach the vacuum hose to the vacuum canister.
 - D. Position the vacuum canister under the battery trey and align so that the vacuum hose is facing upward and align with the holes drilled during step 11-D.
 - E. Install (Qty:2) 1/4"-20 x 3/4 Length Button Head Cap Screw s with the help of an assistant while holding the vacuum canister in position. Tighten the hardware at this time.



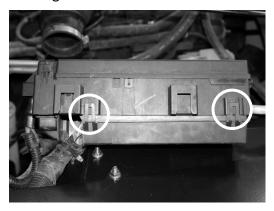


- 32. Complete the following steps in order to reinstall the factory fuse box.
 - A. Remove the top cover from factory fuse panel. Disconnect the positive cable by removing the (Qty:2) Factory 10mm nuts and set the cable aside.

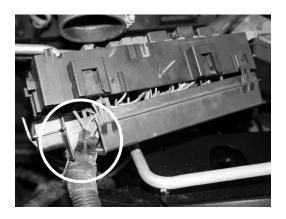




B. Unclip the (Qty:5) tabs with the use of a small flat head screwdriver in order to gain access to the main wiring harness in the image below.



C. Cut the zip tie remove the electrical tape from the bottom of the fuse box where the wiring exits the box then remove the bottom tray from the fuse box assembly.

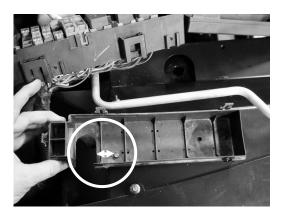




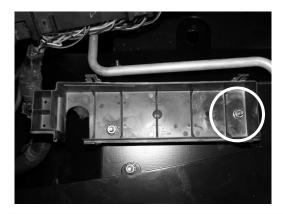
Factory Fender Removal Instructions

D. Position the bottom tray from the fuse box assembly, as shown in the image below, on the flat surface of the inner fender well on the passenger side of the engine bay. Align the tray as pictured and press firmly to indent the location of the installed 1/4"-20 x 3/4 Length Button Head Cap Screw located about 1.5" from the hole location the wiring harness is ran through, so that the opening is still accessible for the wiring to be routed through.





- E. Remove the bottom tray from the fuse box assembly and carefully drill the hole location marked in the previous step with the use of a 5/16" drill.
- F. Remove the 1/4"-20 x 3/4 Length Button Head Cap Screw and 1/4"-20 Serrated Flange Nut from the inner fender location used to indent the hole location that you drilled in the bottom tray of the fuse box assembly. Then position the bottom tray of the fuse box assembly into place and reinstall the removed hardware.
- G. Align the edge of the bottom tray of the fuse box assembly so that it is parallel to the bend of the inner fender, then mark and drill a hole towards the end of the trey about .5"-.75" from the edge closest to the firewall as pictured below. This hole will need to be through both the tray and the inner fender well.

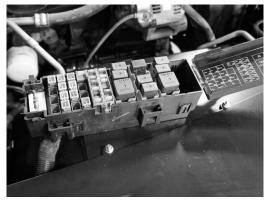




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Factory Fender Removal Instructions

- H. Install the supplied (Qty:2) 1/4"-20 x 3/4 Length Button Head Cap Screws and (Qty:2) 1/4"-20 Serrated Flange Nuts to secure the bottom tray of the fuse box assembly to the inner fender.
- I. Reassemble the fuse assembly box by position on the bottom tray and aligning the 5 clips then pressing down until pressed into place.



- J. Reattach the positive cable removed during step 30-A and tighten the (Qty:2) Factory 10mm nuts and close the top of the fuse panel.
- 33. Complete the following steps in order to mount the factory intake system airbox into position. (**Note:** If you have an aftermarket intake system you will likely have to modify or fabricate to mount the airtube or airbox to the inner fender surface.)
 - A. Loosen the clamp that secures the air tube to the throttle body.
 - B. Position the factory air box onto the flat surface of the inner fender.
 - C. Reconnect the airtube hose to the airbox to determine the mounting location of the airbox.
 - D. Once satisfied with the location of the air box mark along the outer perimeter of the air box.
 - E. Remove the air tube and the top of airbox to be set aside.
 - F. Realign the air box with the marked lines then mark the two hole locations on to the inner fenders.



For Questions or Suggestions, contact our Tech Department (256-442-0607)

- G. Remove the bottom of the air box and drill the two marked hole locations with a 5/16" drill.
- H. Install the bottom of the air box with the use of the supplied (Qty:2) 1/4"-20 x 1" Length Button Head Cap Screws and (Qty:2) 1/4"-20 Serrated Flange Nuts to the inner fender assembly.
- I. Reinstall the air filter and the top of the air box to the air box then reconnect the air tube and tighten the clamp at the air box and throttle body. (**Note:** Inspect air box components prior to reassembly to make sure that there are no debris that could cause damage to the engine.)
- 34. Complete the following steps in order to mount the factory horn into position on the driver side inner fender well.
 - A. Position the horn on the flat metal surface of the driver side front inner fender well next to the coolant overflow reservoir.
 - B. Mark the hole location of the horn mount once satisfied with the location of the horn.
 - C. Drill the marked hole location with a 5/16" drill.
 - D. Install the horn with the use of the supplied (Qty:1) 1/4"-20 x 3/4" Length Button Head Cap Screw and (Qty:1) 1/4"-20 Serrated Flange Nut to the inner fender assembly.



- 35. Complete the following steps in order to mount the factory EFI Module on the driver side inner fender.
 - A. Position the EFI Module on the flat metal surface of the driver side front inner fender well located between the horn and the shock access hole location. The factory bracket will mount to the two flat surfaces of the inner fender.
 - B. Mark the hole locations of the EFI Module once satisfied with the location.
 - C. Drill the marked hole locations with a 5/16" drill.
 - D. Install the horn with the use of the supplied (Qty:2) 1/4"-20 x 3/4" Length Button Head Cap Screw and (Qty:2) 1/4"-20 Serrated Flange Nut to the inner fender assembly.
 - E. Reconnect the wiring harness to the EFI Module once mounted to the inner fender.



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- 36. (If Equipped) Mount the fuel return module behind the shock access hole on the angled surface of the front inner fender panel.
- 37. Complete the following steps to reinstall/relocate the windshield washer fluid reservoir on the driver side inner fender well.
 - A. Install the supplied Windshield Washer Fluid Reservoir Mounting Bracket with the supplied (Qty:1) 1/4"-20 x 3/4 Length Button Head Cap Screw and (Qty:1) 1/4"-20 Serrated Flange Nut to the predrilled hole location located on the rear inner fender panel along the slope as shown in the image below.

- B. Locate the wiring harness for the windshield washer fluid reservoir that is located behind the driver side head light.
- C. Remove any tape to gain access to the wires and cut the two wires that are routed to this connector about 2" behind the connector.
- D. With the use of some 18/20 gauge wire, create 24" extension to lengthen the wire so that the wire can be routed to the back side of the inner fender and connected.





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- E. Reconnect the hoses and electrical connections to the windshield washer fluid reservoir.
- F. Remove the hardware located where the front and rear inner fender liners attach to one another shown in the image below.



- E. Install the windshield washer fluid reservoir by aligning the hole location of where the hardware was removed during step 37-F, and the top hole location of the windshield washer fluid reservoir mounting bracket installed in step 37-A.
- F. Install the supplied (Qty:1) 1/4"-20 x 3/4 Length Button Head Cap Screws, (Qty:1) 1/4" Flat Fender Washer, and (Qty:1) 1/4"-20 Serrated Flange Nuts into the hole location the hardware was removed from step 37-F. Install the supplied (Qty:1) 1/4"-20 x 3/4 Length Button Head Cap Screws, (Qty:1) 1/4" Flat Fender Washer, and (Qty:1) 1/4"-20 Serrated Flange Nuts into the hole location that is aligns with the top hole location of the windshield washer fluid reservoir mounting bracket.
- G. Adjust the windshield washer fluid reservoir as needed prior to tightening the hardware.



Factory Fender Removal Instructions

- 38. Complete the following steps in order to install/reconnect the battery to the supplied battery tray.
 - A. Locate the four wire connection on the firewall and remove from firewall to allow for installation of the battery.
 - B. Install the supplied battery hold down stud in the hole location closest to the firewall as pictured below.



- C. Install the battery to the battery tray.
- D. Install the supplied battery hold down stud to the slotted hole location on the front side of the battery tray.
- E. Install the battery hold down straps and secure with the nuts on both of the battery hold down studs, to hold the battery safely in position.
- 39. Check all wiring harnesses and electrical connections to ensure everything is hooked up properly and secured. If you have any accessories that need to be hooked back up or relocated do so at this time and route wiring to your preferences to manage appearance and organization under the hood.
- 40. Reconnect the battery by connecting the positive and negative terminals.
- 41. Installation is now complete.

WARNING

It is the owners' responsibility to inspect all Rusty's products for proper torque specs to prevent loosening of components. Seat belts and shoulder harnesses should be worn at all times. Re-check all bolts and nuts after the first 300 miles and after any off-road usage during the first 300 miles. Although all of our products are made from the highest quality materials possible, they are not a substitute for Safe and Careful driving. In other words, have good safe on-road / off-road sense. Know the terrain, the speed limitations, and any obstacles that may lie ahead. Please remember to preserve our right to enjoy public land through the proper use of off-road vehicles. Thank you for choosing Rusty's Off Road Products.





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Rusty's Rear Steel Fenders '97-'06 TJ / LJ Wrangler Part# RA-MF22125 INSTALLATION INSTRUCTIONS

Last Revised: 3/12/19

Introduction:

Rusty's recommends that this installation be performed by a certified automotive technician or a person with professional mechanical knowledge. Installing this kit without this expertise may jeopardize the handling and safety of the vehicle.

Read instructions several times before starting. Be sure you have all the needed parts and know where they install. Read each step completely as you go. Exhaust modifications may be necessary. Prior to drilling or cutting, check behind the surface being worked on for any wires, lines, or hoses that could be damaged. After any drilling or cutting, remove burrs and grind smooth any surfaces. An inclinometer or similar tool may be needed to measure driveshaft angles before and after the installation.

Warning:

- It is the owners' responsibility to inspect all Rusty's products for proper torque specs to prevent loosening of components.
- Seat belts and shoulder harnesses should be worn at all times.
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- Although all of our products are made from the highest quality materials possible, they are not a substitute for Safe and Careful driving. In other words, have good safe on-road / off-road sense. Know the terrain, the speed limitations, and any obstacles that may lie ahead. Please remember to preserve our right to enjoy public land through the proper use of off-road vehicles.

Before Starting Installation:

- 1. Carefully Read all warnings and instructions completely before beginning.
- 2. Verify all parts have been received in this kit by checking the parts list on page#2 of this document.
- 3. Only install this kit on the vehicle for which it is specified.
- 4. Park the vehicle on a clean, dry, flat, level surface and block the tires so the vehicle cannot roll in either direction.
- 5. Be certain the vehicle is safely secured on jack stands or a vehicle lift prior to working around or under a vehicle. Never rely on a jack alone to support a vehicle's weight; use appropriately rated stands to support the vehicle's frame an any other heavy components.



Parts List:

Note: Please be sure that you have all the provided parts listed below before continuing with the installation.

Part #	DESCRIPTION:	<u>Quantity</u>
RA-MF22125-DSF	Rusty's TJ / LJ Rear Steel Driver Side Fender	1
RA-MF22125-PSF	Rusty's TJ / LJ Rear Steel Passenger Side Fender	1
RA-MF22125-FEC	Rusty's TJ / LJ Fuel Evaporator Cover	1
67563080	1/4"-20 x 3/4 Length Button Head Cap Screw	16
87920112	1/4" x 1" O.D. Fender Washer	16
67483768	1/4"-20 Serrated Flange Nut	16

Rear Installation Instructions

Note: Save all factory components and hardware for reuse, unless noted.

- 1. Remove the factory rear fenders by removing the 8 fasteners holding the fender flare to the body with the use of a 5/16" socket.
- 2. Remove the factory rear inner fender liner by removing the factory plastic push pins. The use of a small pry bar or push pin removal tool will be helpful to remove these fasteners.
- 3. Drill the 8 factory mounting points where the factory fenders where mounted to the body with a 9/32" drill bit, this will include drilling the factory threaded nut inserts in the lower mounting points.
- 4. Deburr and make sure that all the mounting surfaces are flat.
- 5. Clean the area with soap and water thoroughly before continuing.
- 6. Using masking tape, mask the fender mounting surface as illustrated below.





Front Installation Instructions

- 7. Using a screwdriver or razor knife, pierce the 8 hole locations in the masking tape so the screws can be placed through the holes.
- 8. Install the fender flare using all eight mounting points with the supplied (Qty:8) 1/4"-20 x 3/4 Length Button Head Cap Screws, (Qty:8) 1/4" x 1" O.D. Fender Washers, and (Qty:8) 1/4"-20 Serrated Flange Nuts and slightly tighten.



- 9. Now, using a sharple or paint marker, mark the inside perimeter of the fender flare, this will be your cut line for the body.
- 10. Remove the fender flare from the body.
- 11. The exposed marker line is now visible. Using a cutting wheel or reciprocating saw, cut along the top side of the marked line.



Installation Instructions (Continued)

- 12. Use caution on the passenger-side when trimming to be sure to not cut into the charcoal canister in the back corner of the body.
- 13. Proceed to cut through the single layer sheet-metal throughout the perimeter marked.
- 14. The driver side will fall off after its cut. The passenger side will stay in place in the rear corner by the charcoal canister where it's double laminated as shown in the picture.



15. On the front side of the fender, locate the inner support bracket and cut the tab, all of that extends toward the tire as shown in the picture, cut the tab flush with the masking tape line shown below.





16. On the passenger side only, locate the charcoal canister. The single tab shown in the picture should be cut where the line is marked, be careful not to cut any wiring.



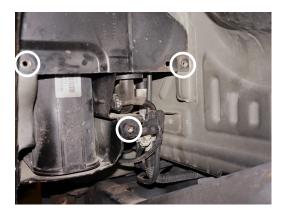
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Installation Instructions (Continued)

17. Next, move to the outside of the vacuum canister near the outside perimeter cut line and angle cut the bottom support bracket for the vacuum canister as shown in the picture. (**Note:** Take your time and do not cut the vacuum canister.)



- 18. Once all cutting is done, remove the masking tape.
- 19. Deburr all cut surfaces, then, using making tape, mask off everything above the flare mounting points drilled earlier.
- 20. Using a high quality spray enamel, paint all raw surfaces and let dry.
- 21. Place the fender to the body and install with the supplied (Qty:8) 1/4"-20 x 3/4 Length Button Head Cap Screws, (Qty:8) 1/4" x 1" O.D. Fender Washers, and (Qty:8) 1/4"-20 Serrated Flange Nuts and slightly tighten.
- 22. Make sure the fender is correctly lined up with the bottom corners, then fully tighten.
- 23. Located on the passenger side of the rear inner fender fuel evaporator, remove the (Qty:3) factory 8mm bolts marked in the image below.





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Installation Instructions (Continued)

24. Install the supplied Rusty's TJ / LJ Fuel Evaporator Cover using the (Qty:3) factory 8mm bolts removed in step 23 and tighten.



25. The installation is now complete!

WARNING

It is the owners' responsibility to inspect all Rusty's products for proper torque specs to prevent loosening of components. Seat belts and shoulder harnesses should be worn at all times. Re-check all bolts and nuts after the first 300 miles and after any off-road usage during the first 300 miles. Although all of our products are made from the highest quality materials possible, they are not a substitute for Safe and Careful driving. In other words, have good safe on-road / off-road sense. Know the terrain, the speed limitations, and any obstacles that may lie ahead. Please remember to preserve our right to enjoy public land through the proper use of off-road vehicles. Thank you for choosing Rusty's Off Road Products.

