



(Ford Transit Rear Bumper) INSTALLATION INSTRUCTIONS

Please read before beginning

- *Stainless steel hardware may bind together when tightening—It is recommended that you apply an anti-seize assembly lubricant to the threads of each bolt before assembly*
- *This installation requires two people*

Required tools

- Standard wrench set
- Leveling tool



Included hardware

Quantity

- | | |
|------------------------------------|----|
| • Rear Bumper Brackets | 2 |
| • 1/2" x 1.5" Bolt | 8 |
| • 1/2" Washer | 32 |
| • 1/2" Nylock Nut | 12 |
| • 3/8" x 1.5" Stainless Steel Bolt | 12 |
| • 3/8" x 2" Stainless Steel Bolt | 2 |
| • 3/8" Stainless Washer | 24 |
| • 3/8" Stainless Nylock Nut | 12 |
| • Delrin Spacer | 2 |
| • 1/2" x 5" Bolt | 4 |

Installation Instructions

1. Remove the 6 plastic pop clips on the underside of the plastic bumper
2. Open the rear van door and remove the 6 bolts holding the plastic bumper to the body.
3. Unclip the parking sensors from the plastic bumper. It is also helpful to disconnect the wiring harness at the quick disconnect.
4. You should now be able to slide the plastic bumper off of the bumper support.
5. Remove the sensor harness from the bumper support.
6. Remove the torx bolt holding the fluid lines to the bumper support.
7. Lower and remove the spare tire to give you access to the mounting bolts holding the bumper support



8. Remove the 4 bolts holding the bumper support to the frame of the vehicle
9. If you have a hitch you may want to remove it to make removing the bumper support easier



10. Remove the 8 bolts holding the bumper support to the floor of the vehicle
11. You should now be able to remove the bumper support.



12. Remove the 3 torx bolts holding each plastic end cap to the body.



13. Remove the plastic clip holding the end cap to the plastic side panel. This is located on the under side of the end cap

14. Remove the 2 torx bolts holding on the tail light.

15. With the tail light removed you should be able to unclip the upper part of the end cap where it meets the side panel and remove it.



16. Carefully pull on the fender flare to unclip it from the wheel well. Start at the lower rear part of the vehicle and start working your way around.
17. As you remove the fender flare you will be able to see some torx bolts holding the side panel to the vehicle underneath the fender flare. You only need to remove enough clips from the fender flare to access these torx bolts.



18. With the torx bolts removed carefully pull the upper part of the side panel away from the vehicle. It is just clipped in and should slide out.



19. Once you have the upper part of the side panel unclipped from the body of the vehicle you should be able to slide the side panel forward enough to release them from the white clips holding the rear of the side panel.
20. The side panel should be completely removed at this point.



21. Remove the magnet support from the vehicle.
22. Install the Aluminess swing arm support using the same hardware that the magnet was held on with.
23. You can now re-install the side panels, end caps, and tail light following the instructions in reverse.
24. Slide the Aluminess Bumper Brackets into position. Use the ½" by 5" bolts to hold the bumper bracket and hitch (if applicable) to the frame. Use the factory hardware to hold the bumper bracket to the floor of the vehicle.



25. First tighten the 8 bolts that go through the bracket into the floor of the vehicle. Then tighten the $\frac{1}{2}$ " bolts going through the frame. Depending on your hitch you may have to use extra washers to take shim the length of the 5" bolt.
26. With the bumper brackets installed you can now bolt the center bumper structure to the bumper brackets using the $\frac{1}{2}$ " by 1.5" bolts.
27. Make sure the bumper is level and the doors of the van can open without interference and then completely tighten the hardware.



28. Loosely install the (3) $\frac{3}{8}$ " by 1.5" stainless bolts to hold the swing arm structure to the bumper. Do not tighten these yet.



29. With the swing arm structure loosely held to the bumper you can line up the hole in the logo plate with the swing arm support that was installed behind the side panel of the vehicle. Use the $\frac{3}{8}$ " by 1.5" stainless bolt with locktite and tighten the swing arm structure to the swing arm support.



30. You can now tighten the 3 bolts holding the swing arm structure to the bumper.
31. With the swing arm structure in place make sure the swing arm is in the closed and locked position on the bumper. Make sure there isn't any weight on the swing arm during the next steps. If the swing arm is open, or if there is weight on the swing arm then alignment of the latch and the swing arm could be thrown off.
32. Take the lower swing arm support and bolt it to the tab coming off the bottom of the swing arm structure with the delrin spacer in-between.
33. You should now be able to rotate the lower support to match up with a body panel on the underside of the vehicle.
34. Use the 2 holes already in the angle as a guide to drill through the body of the vehicle.
35. Remove the rubber plug to access the back side of the panel that you just drilled through.
36. Use the 3/8" by 1.5" bolts to bolt the lower swing arm support to the body.
37. Repeat the steps for the other swing arm.