



Ford Transit Limo Luggage Partition



(Available with 2 Shelves, 1 Shelf, or NO Shelves. 1 Shelf Shown)



CAUTION

Professional Installation with proper training is recommended.

Use personal safety precautions (eye protection, gloves, etc.). Be aware of sharp edges, burrs, etc.

Drill with caution to avoid damage to wiring, air bags, body and interior panels. Use masking and shielding to prevent infiltration of drill filings, etc. Clean up all drill filings with vacuum, magnets, etc. Use of air nozzles not recommended as it may spread metal particles into critical areas and may also cause rusting issues.

Drill ONLY at indicated locations. Use of a stop collar on drill bits is recommended.

Do not over or under tighten hardware

Use rust inhibiting treatments on all raw edges.

Secure and protect all relocated electrical wiring.

Step 1 – Carefully remove rear headliner section.

Step 2 – The Mounting Brackets are “handed” (Driver Side and Passenger Side). The mounting base plates of the brackets exactly match the factory sheet metal cutouts in the roof header above the air bags and below the A/C ducting approx. 2 feet from the rear doors. The lower edge of the base plates will also rest on a “ledge” where the factory sheet metal overlaps and is spot welded. It will be necessary to disconnect several wiring harness securements in order to allow the base plate to rest flat on the factory sheet metal.

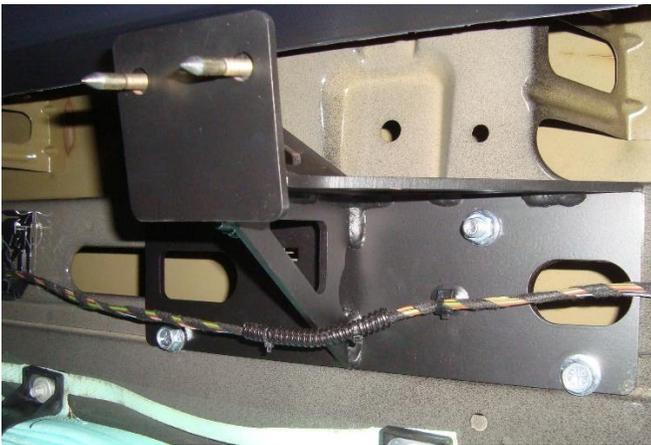


Step 3 – Temporarily clamp the brackets in place and mark the hole locations. Remove the brackets and drill 4, 13/32" Dia. Holes for each bracket. Reinstall the brackets using 3/8" Hardware and re-secure and protect all wiring.





Step 4 – Remove the heads from 4, ¼”-20 bolts approx. 2” Long and sharpen to a point. Install these into the brackets as shown. Carefully re-install the rear headliner and, while holding as close as possible to its final position, carefully pierce headliner to reveal the bolt locations. Use extreme caution to avoid injury or unintended damage to the headlined. Once the bolt locations have been revealed, unscrew the sharpened studs and enlarge the holes to accept the spacers.





Step 5 – Attach the 2 Angle Mounting Brackets to the spacers using the 2-1/2” Long Screws as shown. Leave the bolts finger tight.



Step 6 – Assemble the main frame hoop (2 identical vertical tubes and a horizontal tube) by butting the ends together at the flange rings while simultaneously positioning the flange rings into the large hole in the angle brackets. Place a “Horseshoe” clamp on each side of the bracket and install the button head bolts and flange nuts. Leave hardware loose.





Step 7 – Assemble the main frame hoop (2 identical vertical tubes and a horizontal tube) by butting the ends together at the flange rings while simultaneously positioning the flange rings into the large hole in the angle brackets. Place a “Horseshoe” clamp on each side of the bracket and install the button head bolts and flange nuts. Leave hardware loose.



Step 8 – Temporarily attach the Left and Right Horizontal Support Tubes to the main frame hoop and rear door opening anchor points. This will help establish the position of the mounting feet.



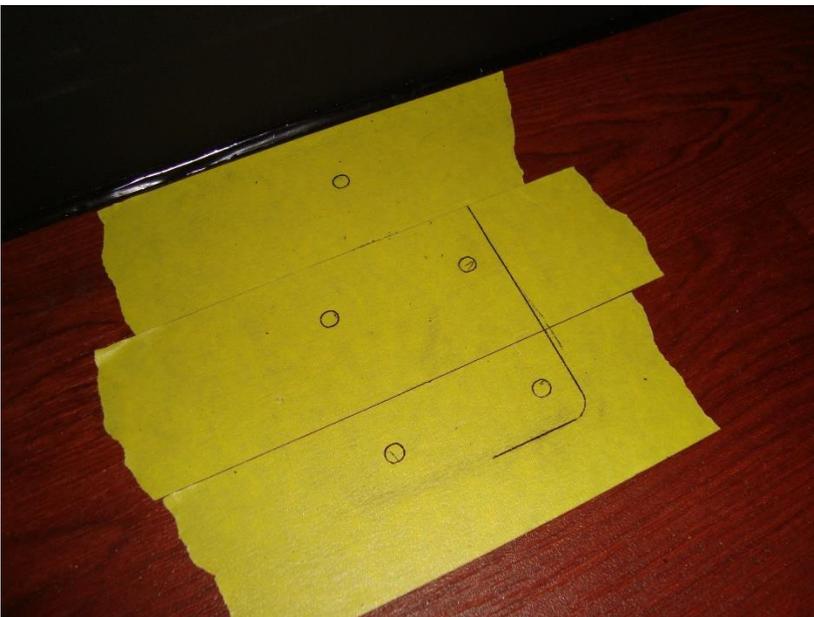
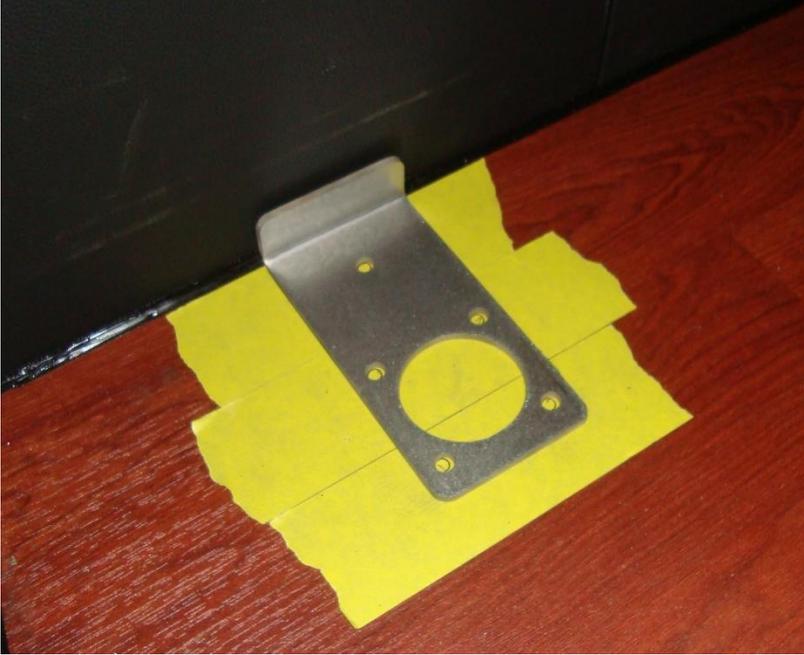


Step 9 – With the lower ring of the vertical tubes resting on the floor, carefully slide the Mounting Feet under the lower rings so that the formed end rest against the factory interior wall. Check to insure that the vertical tubes are plumb in both directions and that the partition mounting flanges are not twisted but are square to the wall and floor.





Mark the 5 mounting holes on the floor when vertical tubes are square and "true".





Carefully drill floor at those 5 locations and install 1/4"-20 Threaded Inserts



Attach foot to floor using only the single hole location.



Place the round flange ring back into the foot and install a "horseshoe" clamp plate and the remaining 4 screws. Do not yet fully tighten any of the hardware.



Step 10 – If the Partition is getting 1 or 2 shelves, pre-attach the appropriate number of angle brackets (2 for each shelf) to the lower partition wall. The Brackets must be attached to the face opposite the tongue side of the partition as shown.





Step 11 – Place the Lower Partition Wall into the Perimeter Tube Frame with the tongue edge facing up, the angle brackets facing the rear doors of the van, and against the front face of the mounting tabs (the mounting tabs should not be visible from the seating area of the van).



Step 12 – Square up and center the perimeter frame and the lower panel. There should be equal gap on both sides of the panel (approx. ½”) all the way up and down the vertical tubes. While maintaining this equal gap, clamp (or use an assistant) the panel to the flange plates on the vertical tubes. CAREFULLY drill thru the partition panel at 6 locations (if the seats are still in the vehicle, be ESPECIALLY CAREFUL when drilling at the upper locations not to damage the seat backs! It is recommended that a “hard” material be placed between the seat backs and the partition to stop the drill bit before it contacts the seat back).



Step 13 – Carefully place the Upper Partition Wall so that it rests on the Lower Wall and the “tongues” overlap. It may be necessary to loosen the upper mounting bolts to allow the upper tongue to slip past the lower tongue. The upper Partition must also rest against the front face of the mounting flanges (the mounting tabs should not be visible from the seating area of the van). Check for equal gaps around edges of upper panel (relative to tube frame perimeter) and alignment with lower partition. Drill thru mounting holes on tabs and install hardware.



Step 14 – Re-attach the horizontal support tubes. Tighten the hardware on the upper flange connections first. Tighten the bolts holding the vertical tube lower flange rings to the floor mounting feet. Tighten the bolts securing the upper angle brackets thru the headliner spacer tubes next. Finally, tighten all remaining bolts.



Ford Transit Limo Luggage Shelf Installation

Once the Partition has been fully installed, the shelf (or shelves) may be installed if so equipped.

Step 1 – Temporarily attach the support legs to the shelf perimeter frame. This will aid in supporting the frame while attaching the frame to the lower partition.



Step 2 – Bolt the ends of the shelf perimeter tube to the lower partition panel using the 5/16"-18 Hex Head Bolts. These bolts are installed by reaching around the back side of the partition vertical tubes.



Step 3 – With the perimeter frame bolted firmly to the lower partition, adjust the position of the support leg tube so that they are plumb in both directions (front/back and left/right). Mark the position of the bottom end of the tubes on the floor and find the center of the tube. It is recommended that one leg at a time be done so that the perimeter frame remains somewhat supported at all times.



Step 4 – Drill for and install the 5/16" -18 Threaded inserts.





Step 5 – Install the 5/16”-18 Threaded Studs and screw support legs down onto the studs. If there is a seam in the tubing, rotate the tube so that the seam is not visible from the rear doors.



Step 6 – Remove the 5/16” Bolts that were temporarily installed at the tops of the support legs and carefully place the shelf onto the frame. The “tabs” along the inner edge of the shelf must engage into the “slots” in the lower partition and the shelf must also rest against the top legs of the angle brackets. If there is to be only 1 shelf, reinstall the 5/16” Button Head Bolts through the shelf and frame tab and into the upper ends of the support legs.

If there is to be a second shelf, rather than installing the Button Head Bolts, instead install a second set of 5/16”-18 studs into the tops of the support legs.



Step 7 – Drill out all remaining mounting holes in the perimeter frame and angle brackets and install hardware.





Step 8– If there is to be a second shelf, screw a second set of support legs onto the studs protruding thru the top of the first shelf and install a second perimeter frame to the lower partition in the same manner as the first shelf. Install the second shelf to the frame as previously done with the first shelf and secure the tops of the upper support legs using the 5/16”-16 Button Head Bolts.



