7576 Tail Light Install Kit

Sprinter LED tail light installation for Plateau and Ascent

Please read all instructions completely before starting. This installation is to be performed by a qualified RV or Automotive technician.

Tail Light Kit Contents

- ✓1 Under chassis Wire harness c/w clips and grommets
- ✓2 Resistors with harness (left =white/brown and right = Green/brown)
- ✓2 LED tail lights with harness (left = white/brown/gray and right = green/brown/gray)
- ✓2 Tail light mounting pads
- ✓4 8 x 5/8 Pan head sheet metal screw
- ✓6 8 x 0.5 Pan head tech screw
- ✓4 4 x 1 Pan head sheet metal screw
- ✓4 Spacers
- ✓2 Grommet 0.875 OD x 0.375 ID x 0.100 groove for 0.625 hole
- ✓2 Grommet 0.6875 OD x 0.375 ID x 0.060 groove for 0.500 hole
- ✓6 crimp connectors
- ✓1 set of drill guide templates0
- ✓3 license plate lights
- ✓1 license plate light pig tail and license plate light bracket
- ✓1 3/8" loom clamp
- ✓1 ¾" vinyl coated clamp
- ✓10 inches ¾" split loom
- ✓5 inches 5/8" split loom
- ✓36 inches 3/8 split loom

6' Small 3/8 Loom
6' 16 Black Ground
6' 16 orange Positive

1 - #0 Robertson Bit 1-#2 Robetson bit

Required tools and supplies

1 Small container of Corrosion inhibiting paint coating such as 2 part epoxy primer, cold galvanizing compound or windshield pinch weld primer such as Sika 206 G+P. The pinch weld primer will dry the fastest.
1 Tube White silicone scalant
1 roll Electrical Tape
1 small quantity of electrical solder

-Soldering gun
-3/32 drill bit
-5/64 drill bit
-Electric drill
-Angle drill
-R0 screw driver for # 4 screws
-R2 screw driver for #8 screws
-Torx T-25 screw driver
-Unibit stepped drill bit or suitable equivalent for drilling ½ inch and 5/8 inch holes in sheet metal

(Continued next page)

-Caulking gun
-Fish tape
-Dental pick or fine scratch awl
-Small round file
-Small touch up paint brush
-Razor Knife
-Flash light
-Process type wire stripper See **Fig Q**
-99% Isopropyl alcohol or a quality glass cleaner

Special Note

If the license plate light has been removed or is not functioning it must be replaced for the new LED tail lights to function as it is a required load that the vehicles computer needs to sense before the LED lights will function. The license plate light is originally wired into an orange lead spliced into the gray/black wire in the trailer light harness and to a black ground to the vehicle body. Repair or replace this before starting. 3 license plate lights are supplied with the kit. One for repair or replacement if the original fails or is missing and two for spares.

Step 1 Disassembly

- With the Rear doors open to the full open position remove the three torx screws that hold each tail light in place. Firmly bump the inside face of the tail lights with the palm of your hand at the top and then the bottom in an outward direction to disengage the clips that hold the light in place. Keep your other hand on the light to keep it from falling. Repeat for each side of the vehicle. **See fig A,B,C**
- Disengage the clips that hold the wiring to the tail lights by pushing the latches on each end the connector inwards and then pull the connector from the socket on the back of the light. **See Fig D**.
- -Inside the vehicle remove the lower of the two grilles which are about 3" square on the rear pillars just above floor level. On some units it may be a white piece that is siliconed on and most will be a gray grille that is snapped in place. Retain the grilles to reuse.
- At the door jamb stretch the rubber wire duct and work it off of the plastic flange. There will be a plastic flange left in the jamb that also needs to be removed. It has 4 plastic tabs of which at least the top two need to be retracted to get it out. US a scratch awl or dental pick to pry the tabs back and release the flange. Use caution as the tabs can break. When released reinsert the flange into the wire duct so that it may be snapped back into the oval later during reassembly. **See Fig E, F**

Step 2 templates, Marking and Drilling

- Cut the templates from the sheet provided with a razor knife.

- Locate the Tail light template and position it on the back of the vehicle in the area below the door hinge and above the factory tail light. Mark the holes and drill. Use a Unibit for the 5/8 inch hole and the 3/32nd bit for the screw pilot holes. Flip the template over and repeat for the other side. **See Fig G.**
- Locate the Resistor templates, right and left, and use to mark the holes in the recessed area behind the factory tail lights. Use the Unibit to drill the ½ inch hole and the 5/64 bit for the two screw pilot holes. **See Fig H**
- Under the vehicle at the rear outside of the hitch on both sides locate the area as in **Fig I and J** and drill one 5/8 inch hole on each side. Position the hole vertically even with the center ridge in the pattern and centered horizontally approximately ¾ inch from the outside edge of the outer vertical ridge between the outer vertical ridge and the side of the vehicle. This is a curved surface and is two layers thick. Be certain to use eye protection and gloves as the hot metal chips will hurt you.
- The two layers may have separated so at this point use a screw driver through the hole to lever the two layers tight together.
- Use a round file to deburr all sharp metal edges on drilled holes
- Use a corrosion inhibiting coating on all bare steel edges of drilled holes and allow adequate flash time before proceeding.

Step 3 Component installation and wire routing

- From under the vehicle route the wire harness from the middle outwards. The side of the harness with the white wire goes to the drivers' side and the side with the green wire goes to the pass side. Use the terminations in the middle portion of the harness as a starting guide and position it a bit towards the drivers side of the chassis. Route the harness as in **Fig K,L,M** and attach the ends of the wires on the driver's side to a fish tape. Place a flash light pointing into the lower grille opening on the inside of the vehicle. Looking up fish the wire up towards the flashlight and pull through to the vent opening. Unhook the tape and continue to fish the wire up to and through the tail light opening. Repeat on the Passengers side. It may be a bit more difficult to see the flashlight but the exhaust pipe can be flexed to the side a bit to aid in visibility.
- Insert the grommmets on the harness into the holes and seal with silicone
- Screw the retaining clips to the body of the vehicle as **per Fig K,L,M** with the supplied 8 x 0.5 Pan head tech screws.
- Insert the grommet 0.6875 OD x 0.375 ID x 0.060 groove for 0.500 hole into the large hole drilled inside the tail light recess and silicone around the outside edge.
- Install the resistors with 2 of 4 x 1 pan head sheet metal screws and spacers as **per Fig N and O** and route the wires down and through the tail light hole. White wire is drivers and green wire is passengers.
- Silicone seal where the wires pass through the grommet to protect from the weather
- Insert the grommet 0.875 OD x 0.375 ID x 0.100 groove for 0.625 hole into the large hole drilled for the new LED tail lights and silicone around the outside edge.
- Separate the LED tail light from the black plastic bracket it snaps into. Use a screwdriver to pry the two apart.
- Screw the black plastic bracket to the body with the tail light mounting pad behind it to the body of the vehicle. Each black bracket has a small notch on one end to use for

prying the light out of the bracket. Install the bracket with this notch downward. **See Figure P**

- Insert the wiring for the LED light into the hole and through the bracket, pad and grommet and fish down and out through the tail light hole. White/Brown/Grey is driver's side and Green/Brown/Grey is Passengers side.
- Leave about 4 inches of the red/white/brown wire on the back of each tail light hanging out as a service loop and then silicone the opening through the grommet closed.
- Snap the tail lights into the brackets being careful to keep the wires in the service loop from being pinched between the light and the bracket.
- Use supplied 3/8 wire loom to protect all of the wires that run to the rubber wire looms between the door jambs and the rear doors. This is to protect the wiring from the screws that hold the new tail lights on.
- Use the supplied crimp connectors to connect the like colored wires on each side to each other. Tape the wire bundle to secure it from rattling and push back through the factory tail light hole
- Apply a bead of white silicone sealer and tool out around the light mounting pad where it meets the body to weather seal and for esthetics.
- Under the chassis at the trailer harness release any clips, clamps, plugs etc. to provide a service loop to work with.
- Open the wire loom in a place suitable to make connections to new harness and cut back the factory tape wrap where necessary.
- Carefully bare about ¾ inch of the Grey/Black wire, the Black/Green wire, the Black/White wire and the Brown wire in suitable locations to be able to make solder splices to the new harness. A good way to accomplish this is to make two stip breaks in the wire about ¾ inch apart and then carefully strip between them with a razor knife. **See Fig Q.** Wrap the new harness wires around the bared areas, fold the new wires parallel and tight to the spliced to wire and then solder and tape the joint. Green to Black/Green, White to Black/White, Gray to Grey/Black and Brown to Brown. Prior to soldering test the connections and verify all light functionality.
- Secure the wires back into the trailer harness bundle and reinsert into the factory loom. Use the supplied ¾" split loom over the factory loom if the wire bundle is too large to hold the wire that have been tapped and use electrical tape to secure. Use the supplied 5/8" split loom on the short length of wire from new tail light harness to existing trailer harness and secure with electrical tape. Secure the new harness near the junction where the trailer harness was tapped with the supplied 3/8 split loom clamp and one tech screw. Resecure the trailer harness where it was before with the ¾" vinyl coated clamp and reconnect and reinstall the trailer plug.
- Plug the factory tail lights in and hook up the license plate light.
- Test the final assembly and reassemble all factory lights, connections, wire ducts and vent covers removed or unhooked in previous operations.
- Install the red reflector decal on the tire cover as per **Fig R.** Use a quality glass cleaner or pure isopropyl alcohol as a cleaner prior to installing the reflective decal.



Fig A



Fig B

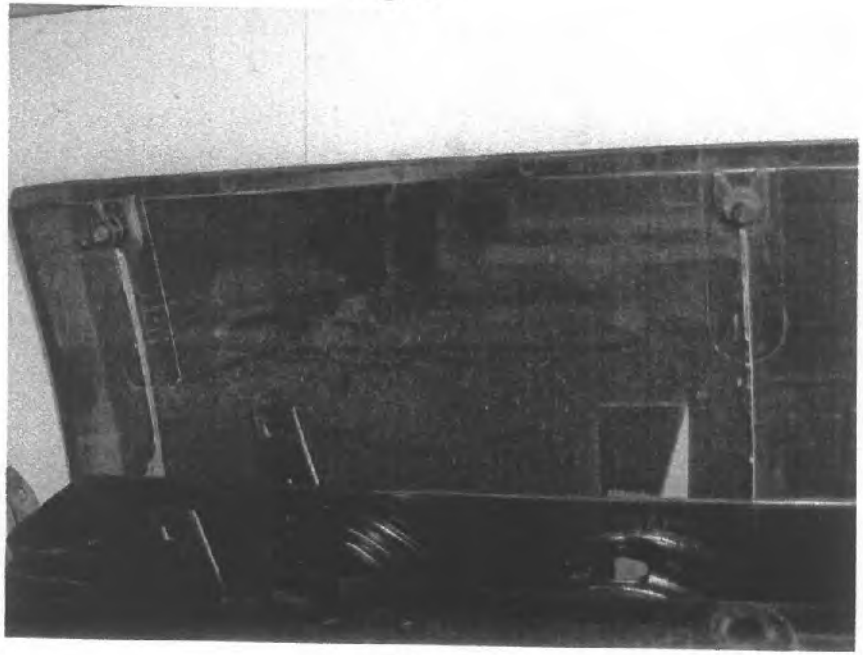


Fig C

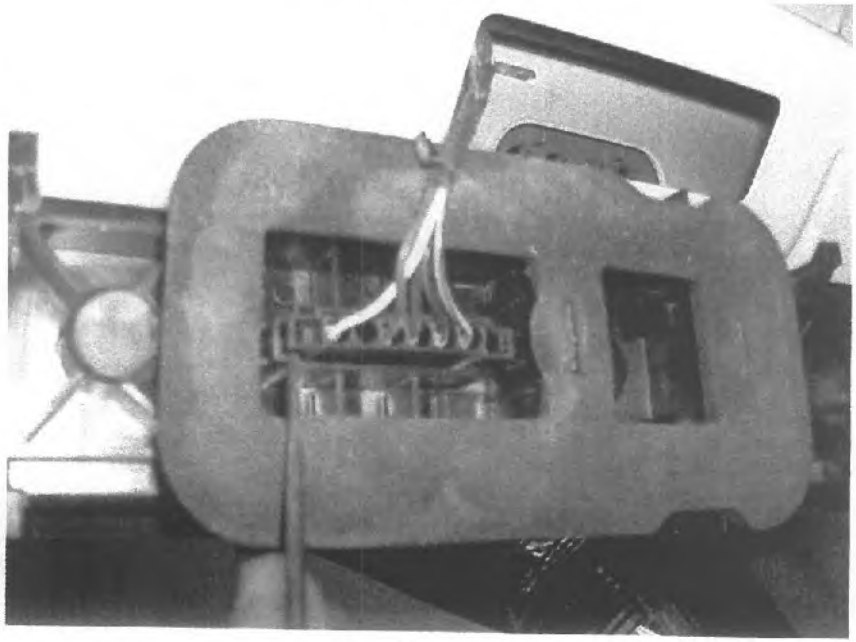


Fig D



Fig E



Fig F

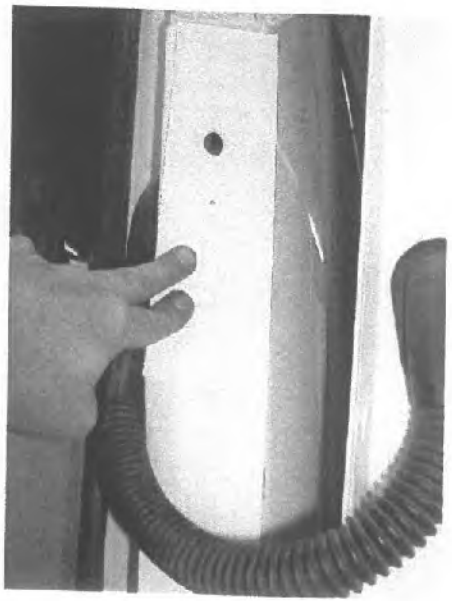


Fig G

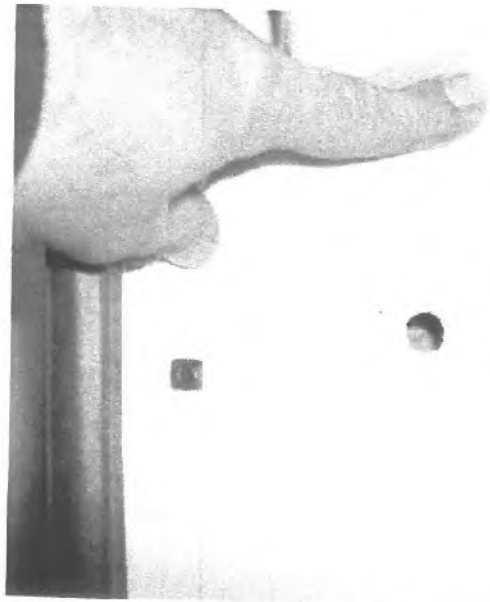


Fig H



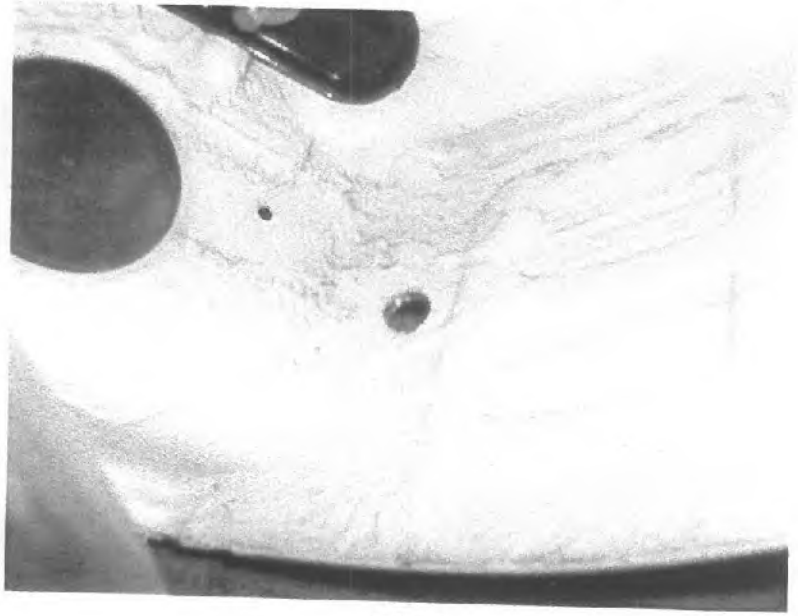


Fig I

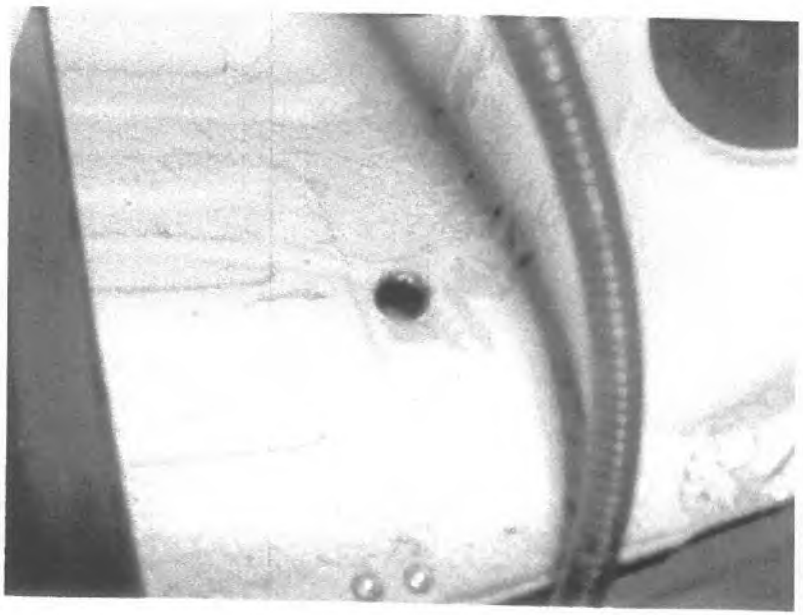


Fig J



Fig K

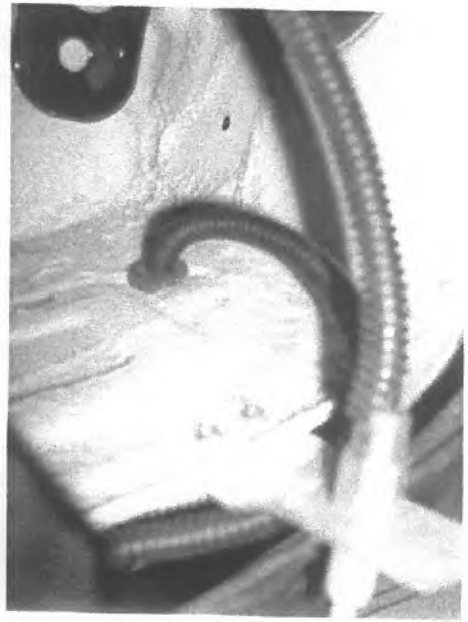


Fig L

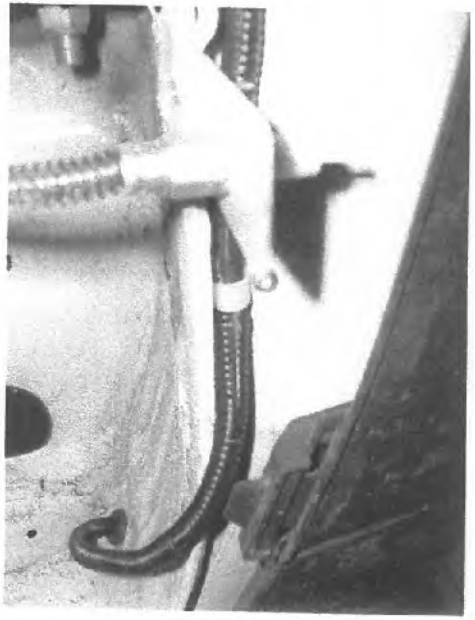


Fig M



Fig N



Fig O

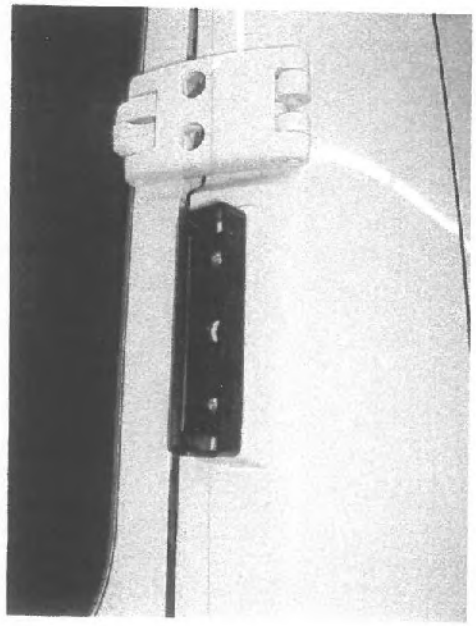


Fig P

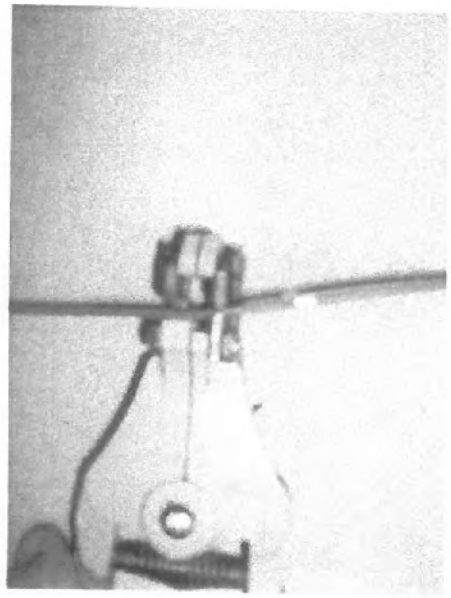


Fig Q

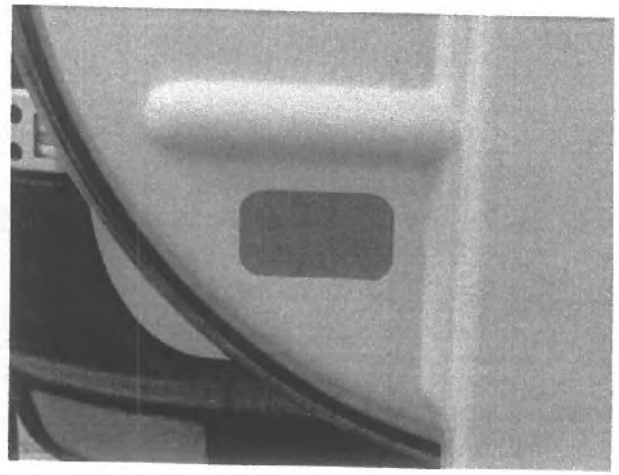


Fig R

