Tire Cover Re Wire TSB # 200614

Kit Includes:

1- Smart trailer connecter
2- LED Tail Light
3- LED Licence light
4- Weather tight heat shrink
5- Scotch Linerless Splicing tape with instructions
6- Wire Harness for Smart trailer connector to Tire Cover
7- Wire Ties for harness from Smart trailer connector to Tire Cover

Wiring connections:

Driver Rear Tail Light

Sprinter Wire Color	Smart Box Wire Color
Brown	White
Grey with Black Tracer	Brown
Black with Red Tracer	Red
Black with White tracer	Green

Smart Box Wiring to Extension Harness

Smart Box Wire Color	Extension Harness
White	Brown
Brown	Grey
Green	Black

Tire Cover Harness to Lights

Tire Cover Harness	Cover Tail Light & Licence Light
Brown	White on Tail and Licence Light
Grey	Black on Tail Light and Brown on Licence light
Black	Red on Tail Light

Repair Procedure:

(A) Tire Cover Wiring

1) Remove the Spare Tire trim ring and Cover.
2) Cut wires where the light leads are connected to the plug harness and remove the weather tight plug and wiring from the light connections.



3) Remove the tail light and Licence plate light from the tire cover.
4) Install the new LED license light. (Used the original machine screws in the original holes to secure the light.)


5) Install new LED tail light onto the cover.



A) Drill a ½"wire hole central to the existing four holes used to mount the original tail light.
B) Place the new tail light centered between the two cover ribs. Pre drill 3/16" hole for machine screws from the original light that are used to secure the light to the cover.
C) Secure the light to the tire cover and snap the silver cover ring onto the light.
D) (as shown in picture under step 4)

6) Connect the weather tight plug and wire harness removed in step (3) to the new LED lights (solder all connections. Use weather tight heat shrink provided over each solder joint.)
7) Using electrical tape, tape the wires together and inset them into the 8" length of ½" split loom. Secure the split loom with electrical tape.

Tire Cover Harness to Lights

Tire Cover Harness	Cover Tail Light & Licence Light
Brown	White on Tail and White on Licence Light
Grey	Black on Tail Light and Brown on Licence light
Black	Red on Tail Light




(B) Tire Cover Wiring Connection at Trailer Plug

1) Remove the wire ties that hold the wire to the tire arm and hitch.
2) Cut the brown, grey and Black wire 1 ½" from the point at which they enter the trailer plug harness.





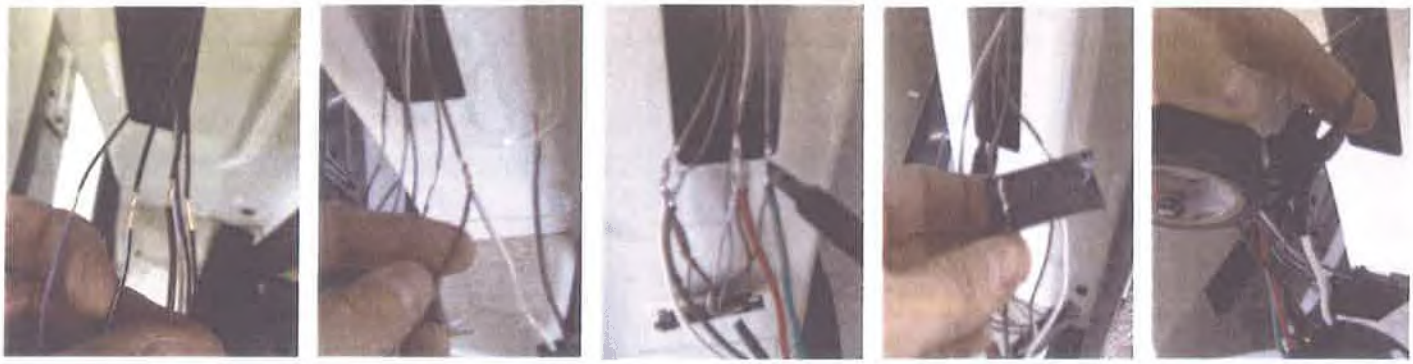

3) Heat shrink the 1 ½" ends of each individual wire. (Use the Weather Tight Heat Shrink provided)
4) Tape the 1 ½" ends against the trailer plug harness. (Use electrical tape, ensure the wires are completely enclosed against the wire harness.)
5) Cut the weather tight plug off the wire harness leaving four inches of wire extending from the weather tight plug. (You will use this plug in step 9 of Instruction C)

- For the next procedures you must lower the spare tire.

C) Driver Rear Tail Light Wiring and Smart Connector Installation

1) Remove the Driver Read Tail Light by removing 3- T 25 torque screw next to the rear door opening. Press on the front edge of the light and slide it back to release the front retainer clips. (Be careful not to lose or break the retainer clips.)

2) Unplug and remove the tail light. Remove the tape holding the wires together next to the tail light plug. (see photos above)
3) Strip to allow for a splice (Do Not Cut) the center section of the Brown, Grey with Black Tracer, Black with Red tracer and Black with White tracer.



4) Twist the wires from the Smart Connector onto the splice area of each wire(see wire color connections below) Solder the wire connections together. (see above)

Driver Rear Tail Light

Sprinter Wire Color	Smart Box Wire Color
Brown	White
Grey with Black Tracer	Brown
Black with Red Tracer	Red
Black with White tracer	Green

5) Wrap the wire connections with Scotch Linerless Splicing Tape (provided) stetch the tape and press it firmly onto the wire and wire connections. (See Instructions)

6) Tape with electrical tape each connection over the heat shrink tape. Secure all wires together with electrical tape. (1) below

7) (pictures above) Using a fish tape next to the hinge plate, run the fish tape down to the lower plastic bumper cover edge. Pull the fish tape clear of the plastic bumper cover. Attach the wire and loom from the smart connector to the fish tape and pull the wiring harness down allowing it to be routed on the lower plastic bumper cap. Route the wire along the hitch to the tire carrier arm and secure the wire with wire ties. Press the wire and wire loom toward the tail light mounting plate as seen in picture 3. Allow enough wire so that the smart connector can be placed inside the tail light opening picture 6.
8) Install the tail light onto the vehicle. Close the rear door and place the tire carrier in the transport position.
9) Using the weather tight plug removed in step 5 in instruction B connect the wire end from the smart connector wire routed along the tire arm to the connector. Match the colors: Brown to Brown, Grey to Grey and Black to Black. Solder and heat shrink with weather tight heat shrink.

10) Plug the tire cover into the connector installed in step 8 check that the brake, tail and signal lights function.
11) Install the tire cover and trim ring. Check to ensure all wiring is secure.

Scotch® Linerless Rubber Splicing Tape 130C can be used on Polyethylene, Cross-Linked Polyethylene, Butyl Rubber, Oil-Based Rubber, EPR, PVC and other solid dielectrics. Scotch® Splicing Tape 130C tape is compatible with common polymeric insulation and has high thermal conductivity which allows for cooler splices.

Taping Tips:

1. Clean cable.
2. Apply tape with tacky side up.
3. Stretch tape and apply 1/2-lapped to form smooth, void-free splice. Wrap tightly in critical areas.
4. Added splice protection is provided by wrapping it with two 1/2-lapped layers of Scotch® Super 33+™ Vinyl Electrical Tape or Scotch® Vinyl Electrical Tape Super 88 or Vinyl Insulated Tape 22.

Note: Scotch® Splicing Tape 130C tape can be highly elongated. The more stretch, the less chance of voids. Even when highly elongated, it doesn't lose its electrical characteristics.

Le ruban isolant en caoutchouc sans doublure 130C de Scotch® peut être utilisé sur du polyéthylène, du polyéthylène réticulé, du caoutchouc butylique, du caoutchouc à base d'huile, du caoutchouc éthylène-propylène, du PVC ainsi que tout autre matériau diélectrique solide. Le ruban 130C est compatible avec les isolants en polymère courants et offre une conductivité thermique élevée de manière à obtenir des épissures à température plus fraîche.

Conseils de collage :

1. Nettoyez le câble.
2. Appliquez le ruban en plaçant le côté collant vers le haut.
3. Étirez et appliquez le ruban en le superposant à la moitié afin de former un collage égal et sans espace vide sur l'épissure. Enroulez fermement dans les zones à risque.
4. Une protection additionnelle de l'épissure est fournie en l'entourant de deux couches se superposant à la moitié de ruban électrique de vinyle Super 33+™ de Scotch® ou le ruban électrique en vinyle Super 88 ou 22 de Scotch™.

Remarque : Le ruban 130C peut être fortement étiré. Plus vous l'étirez, moins vous avez de chance d'avoir d'espaces vides. Il ne perdra pas ses caractéristiques électriques même lorsqu'il est très étiré.

La cinta para uniones de goma Scotch® 130C puede utilizarse sobre polietileno, polietileno reticulado, caucho butílico, caucho a base de petróleo, EPR, PVC y otros dieléctricos sólidos. Cinta 130C es compatible con el aislamiento polimérico común y tiene una alta conductividad térmica que permite más frías empalmes.

Sugerencias de encintado:

1. Limpie el cable.
2. Aplique la cinta con el lado adhesivo hacia arriba.
3. Estire la cinta y aplique 1/2 pulido para formar una unión lisa y libre de burbujas de aire. Envuelva firmemente en las áreas críticas.
4. Se puede obtener protección adicional para las uniones al envolverlas con dos capas con 1/2 pulido de la cinta eléctrica de vinilo Scotch® Super 33+™ o Super 88.

Nota: La cinta 130C puede estirarse considerablemente. Cuanto más se estire, menor será la posibilidad de burbujas de aire. Aun cuando esté considerablemente estirada, no pierde sus características eléctricas.

*Es resistente al fuego en su estado aplicado según lo define la norma 27-1974 ANSI del IEEE.

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Electric Sealing Tape
For Tail light Connection