

INSTALLATION INSTRUCTIONS

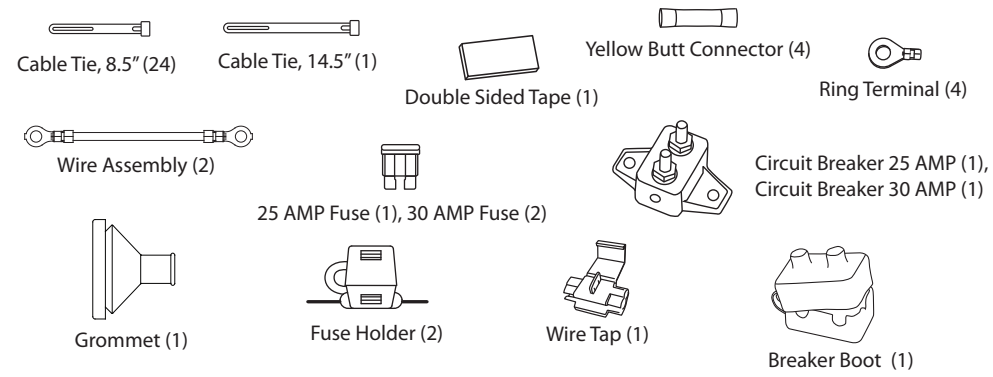
7-WAY VEHICLE PREP KIT

Approximate Install Time: 120 minutes

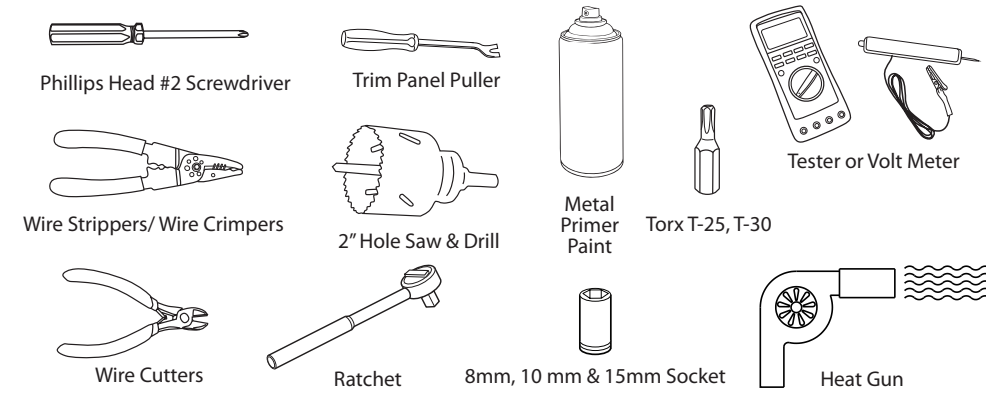
READ THIS FIRST:

Read and follow all vehicle warnings and installation instructions before beginning installation. Wear safety glasses and use all safety precautions during installation.

HARDWARE OVERVIEW:



REQUIRED TOOLS :



WARNING

Overloading circuit can cause fires. DO NOT exceed:

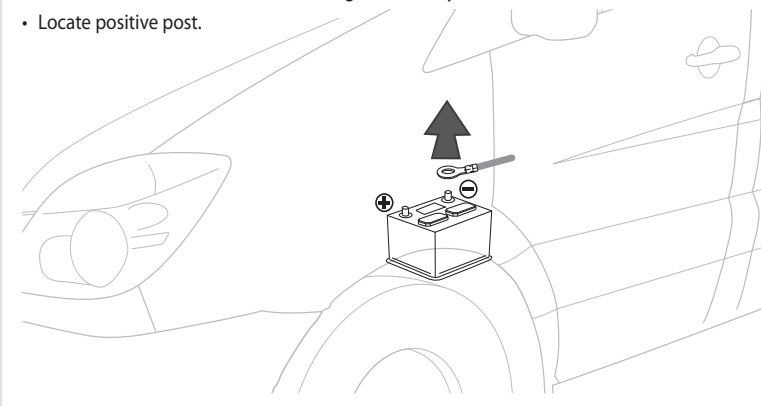
- Max. stop/turn/backup light: 2 per side (4.2 amps)
- Max. tail lights: (7.5 amps)
- Max. 7 Way 12 Volt +/- (30 amps)

Read vehicle's owners manual & instruction sheet for additional information.

PREP VEHICLE:

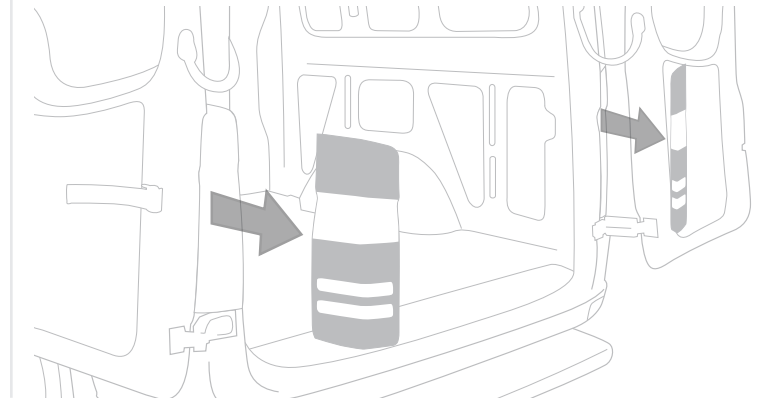
BATTERY

- Access vehicle battery by removing metal plate under driver's side floor mats.
- Disconnect and isolate the vehicle's negative battery terminal.
- Locate positive post.

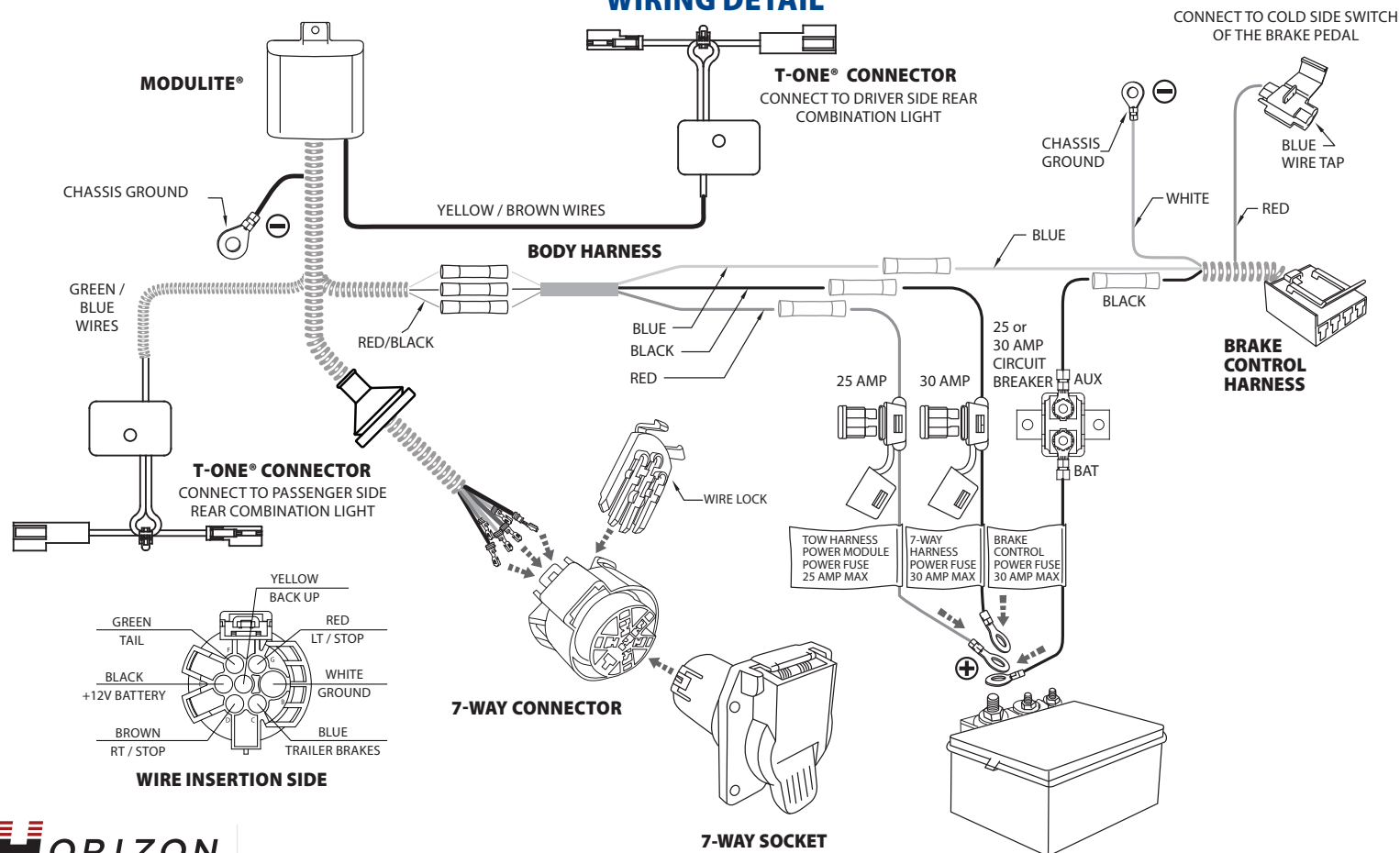


TAIL LIGHTS

- Open rear door's, using Philips remove rear combination lights and set aside. Push vehicle connector through gasketed hole into rear cargo area pillar.

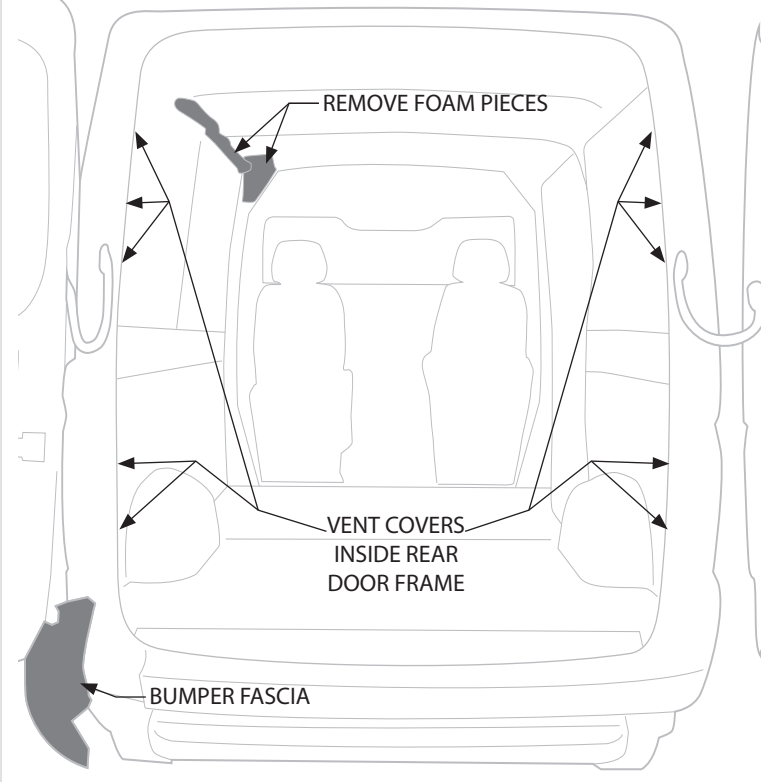


WIRING DETAIL

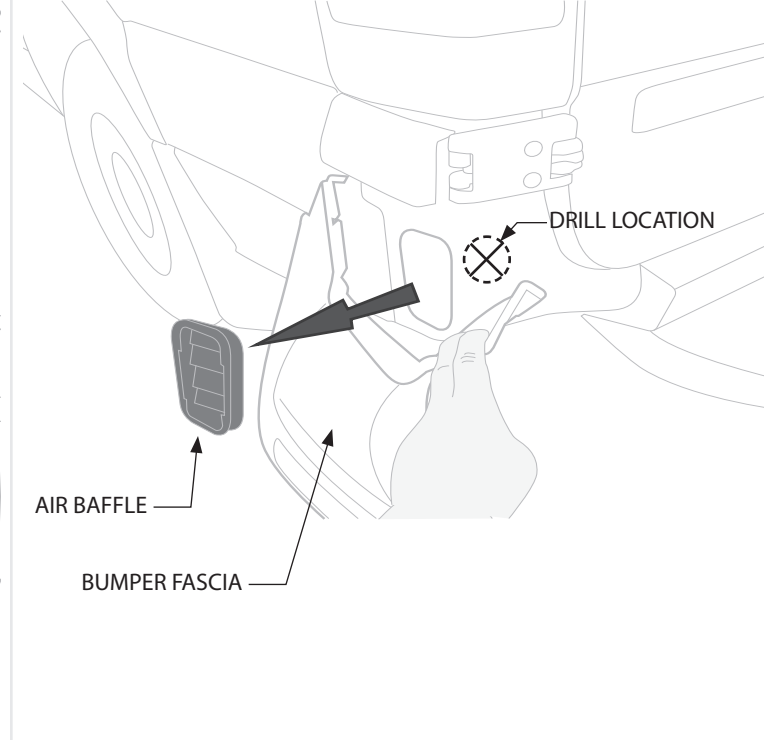


FASCIA & TRIM

- Using trim panel puller and Torx bit, remove driver's side of bumper fascia and air baffle below.
- Remove snap-in air vent covers on left and right vertical columns inside cargo area.
- Remove trim piece along driver's side ceiling to expose existing wires.

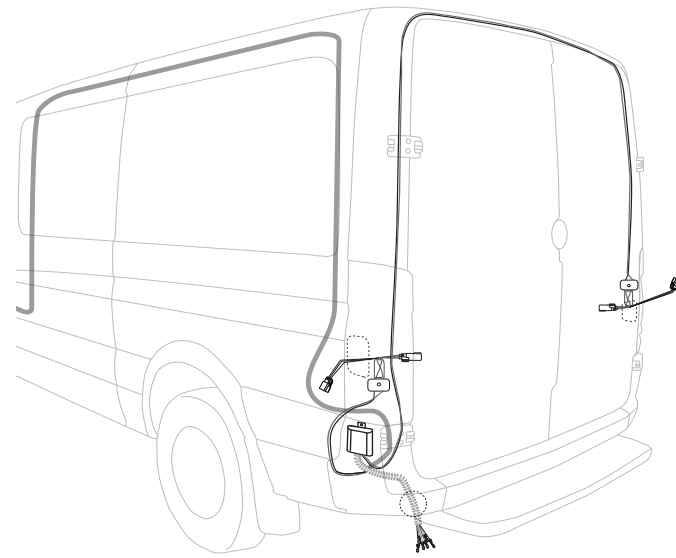


- Partially remove foam corner piece behind driver's head rest to create space to run wires behind foam.
- Remove interior trim piece behind driver's side door.
- Drill hole using hole saw at bottom of bumper on driver's side. Be sure to avoid drilling through additional materials beyond the intended hole. Deburr and coat bare metal with primer.



T-ONE® CONNECTOR ENDS AND MODULITE®:

- Beginning on drivers side, route T-One® Connector end with Yellow wire up into tail light hole.
- Connect the T-One® Connector end, with the yellow wire, to the vehicle wiring connector and lock into place. Be careful not to damage the locking tabs and be sure that connector is fully inserted with locking tabs in place.
- Route chassis ground ring terminal to existing vehicle chassis ground point. Mount ring terminal.
- Secure loose wires near ModuLite® and mount ModuLite® box with supplied double sided tape and/or cable tie.
- Route T-One® Connector end, with the green wire above door in cargo area to passenger side access point and down into the rear cargo area.
- Connect the T-One® Connector end to the rear combination light. Be careful not to damage the locking tabs and be sure that connector is fully inserted with locking tabs in place. Replace rear combination lights.



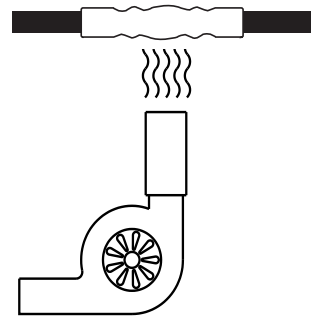
7-WAY HARNESS:

- Determine 7-Way mounting location.
- Route the 7-Way Harness containing the 7 wires behind rear bumper fascia and over bumper support bracket, towards the Mounting location.

- Using wire insertion detail, pin 7-Way Connector.
- Connect 7-Way connector and 7-Way socket. Mount 7-Way (Bracket not included).

COMPLETION:

- Test and verify installation with a test light or trailer once installed.
- Secure harness with the cable ties provided, to prevent damage or rattling. Be careful to avoid any areas that would pinch, cut or melt the wire.
- Apply heat directly to butt connectors, working from the center out to the edges, using a hot air gun or other source, until the tubing recovers and the adhesive flows. Allow to cool before inspecting splice and checking integrity.
- Replace all coverings, grommets or any other components that were removed for ease of installation. Some grommets will need to be altered to allow wires to pass through. Seal altered grommets with silicone.
- Reconnect the vehicle's Negative (-) battery cable.

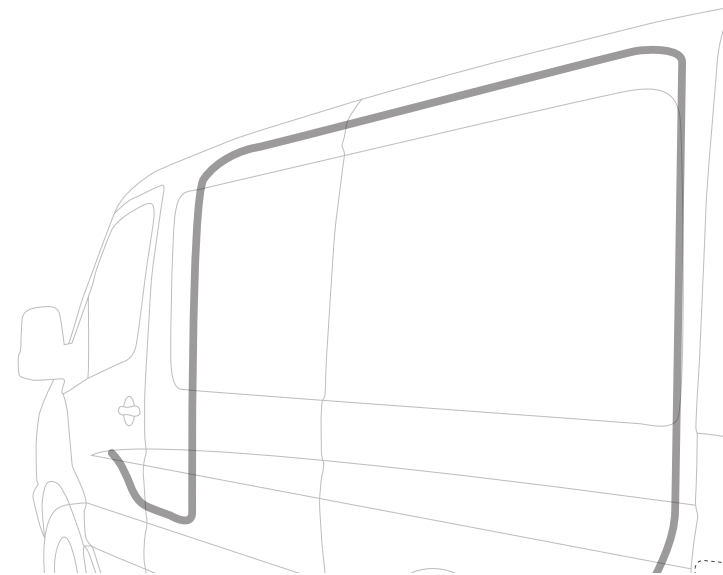


BODY HARNESS:

- Beginning on driver's side, route body harness with jacketed red/black/blue wires to the front of the vehicle. Route harness behind plastic and foam trim pieces along ceiling. Then following existing wires route, to battery under driver's feet.

⚠ WARNING Route the wire being careful to avoid any hot pipes, heat shields, the fuel tank or any other points that may pinch or break the wire.

- Route body harness' Black wire to vehicle's positive post underneath floor. Using 30 amp fuse holder (7-Way), butt connector, and ring terminal, connect to battery.
- Route Red wire to vehicle's positive post underneath floor. Using 25 amp fuse holder (Tow Harness), butt connector and ring terminal, connect to battery.



TROUBLE SHOOTING GUIDE:

7-Way not functioning properly	Ensure T-One® Connector ends are fully inserted and locked in place. Remove Tow Harness power Module 25 amp fuse for 10 seconds and repeat test.	Check chassis grounds. Ensure ring terminals are in full contact with vehicle's chassis. Remove Tow Harness power Module 25 amp fuse for 10 seconds and repeat test.
No Power to 7-Way	Installation may have activated circuit protection. Start vehicle and turn all functions off: Tail (head lights), brake and turns. Remove Tow Harness power Module 25 amp fuse for 10 seconds and repeat test.	Ensure 25 amp fuse is fully inserted into fuse holder. Fuse should have no breaks. Fuse holder connected properly to positive post of battery. Remove 25 amp fuse for 10 seconds and repeat test. Ensure module is connected to B+. Using a tester or volt meter check for voltage on either side of the yellow butt connector near the module. Remove Tow Harness power Module 25 amp fuse for 10 seconds and repeat test.

BRAKE CONTROL HARNESS:

- Determine a suitable mounting point on the tow vehicle for the Electric Brake Control Harness.

Note: Brake Control not included. Brake Control Harness designed to work with Tekonsha®

- Route the Brake Control Harness' white wire to existing vehicle chassis ground point. Using provided ring terminal, mount.
- Route the Brake Control Harness' Black wire to vehicle's positive post underneath floor. Use 30 amp circuit breaker (Brake Control), butt connector, and wire assembly.

⚠ CAUTION When towing trailers with one to three axles, use the included 20 amp circuit breaker.

- Route Blue wire (Electric Brake Output) to Body Harness Blue wire. Using butt connector, connect blue wires.

- When using a volt meter or circuit tester, carefully probe one wire at a time.

⚠ CAUTION Do not probe across two wires or across vehicle structure.

⚠ CAUTION When splicing use appropriate gauge wire splices. Provided blue tap are for 16-18 gauge wire only.

- Secure the brake harness connector near desired Brake control mounting location.

