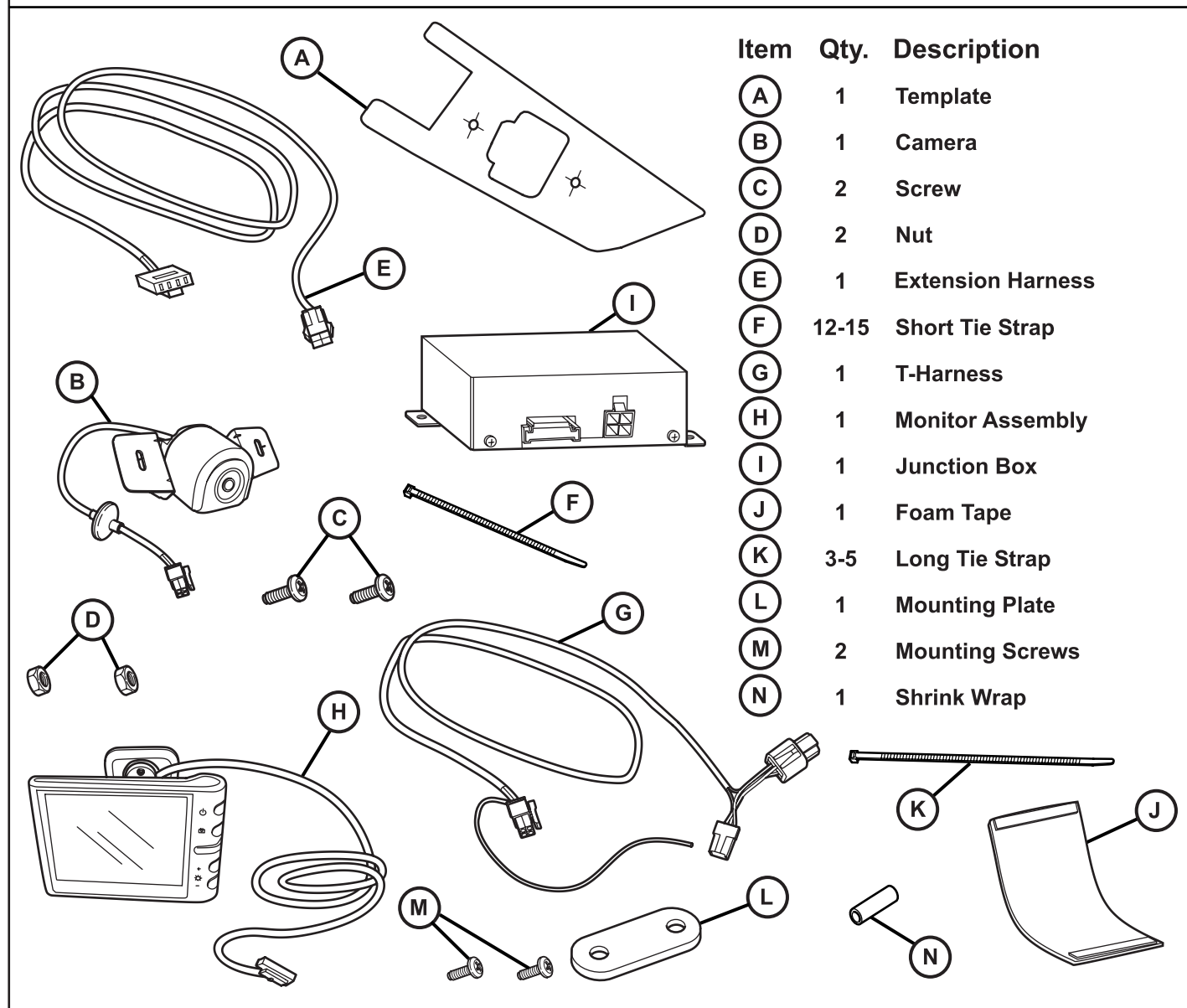
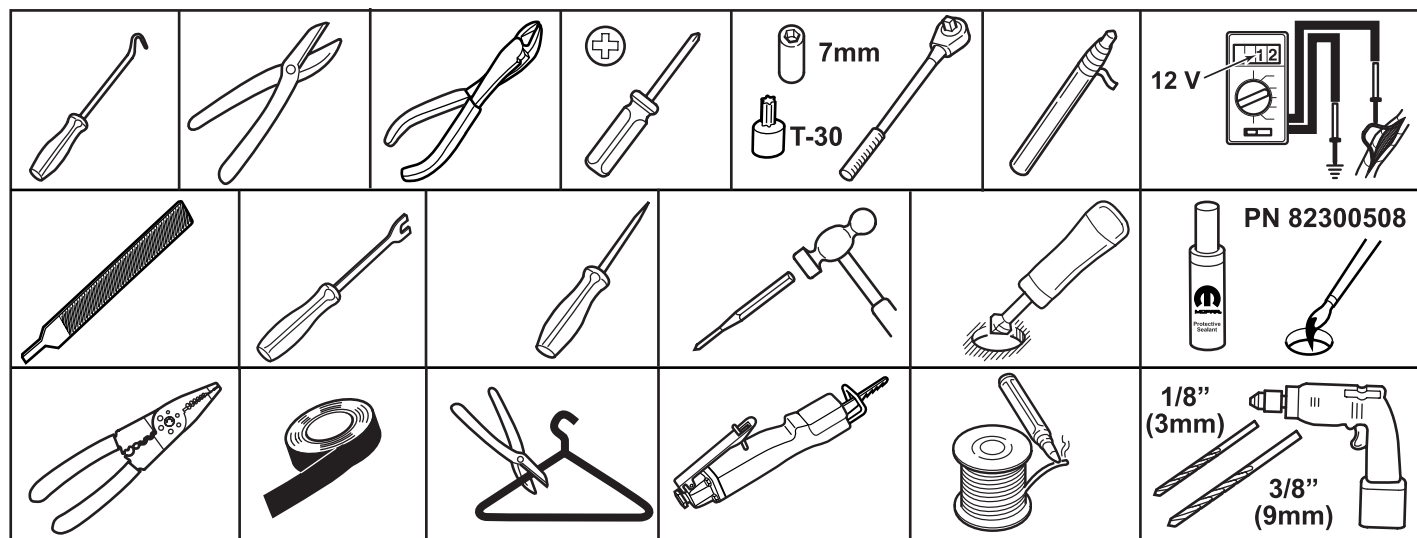


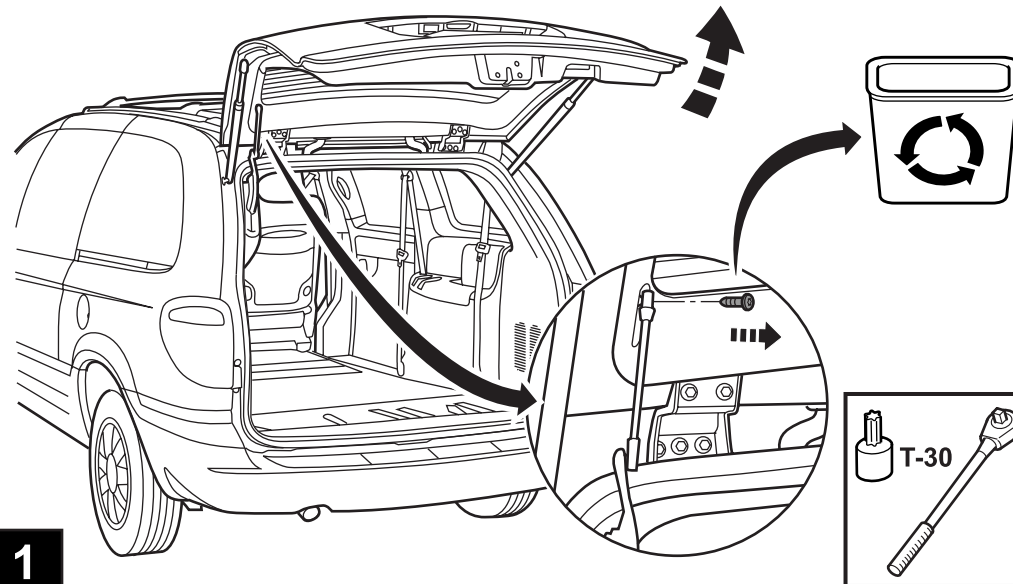


CHRYSLER/DODGE MINI VAN

Rear Backup Camera Kit



Item	Qty.	Description
A	1	Template
B	1	Camera
C	2	Screw
D	2	Nut
E	1	Extension Harness
F	12-15	Short Tie Strap
G	1	T-Harness
H	1	Monitor Assembly
I	1	Junction Box
J	1	Foam Tape
K	3-5	Long Tie Strap
L	1	Mounting Plate
M	2	Mounting Screws
N	1	Shrink Wrap

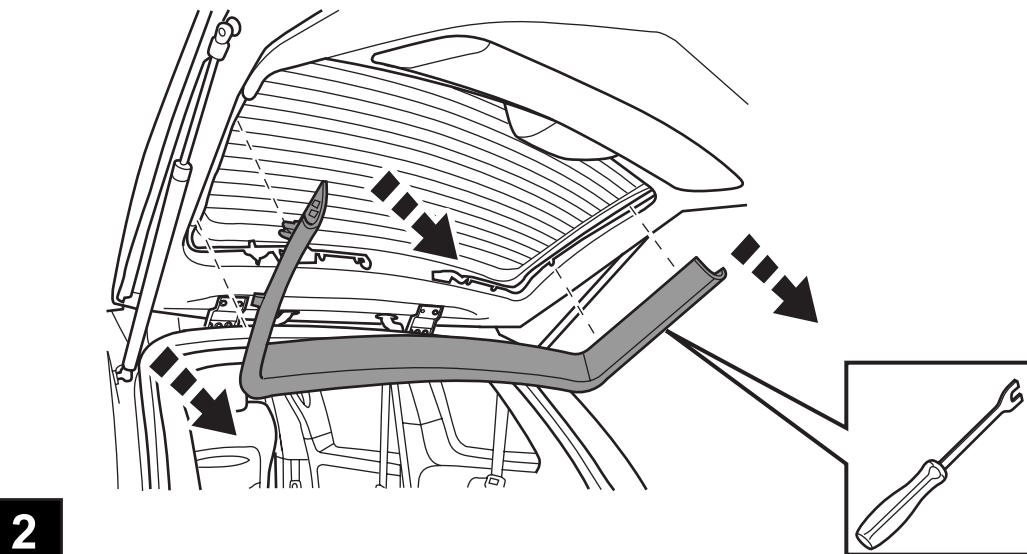


1

- 1) Disconnect and isolate negative battery cable.

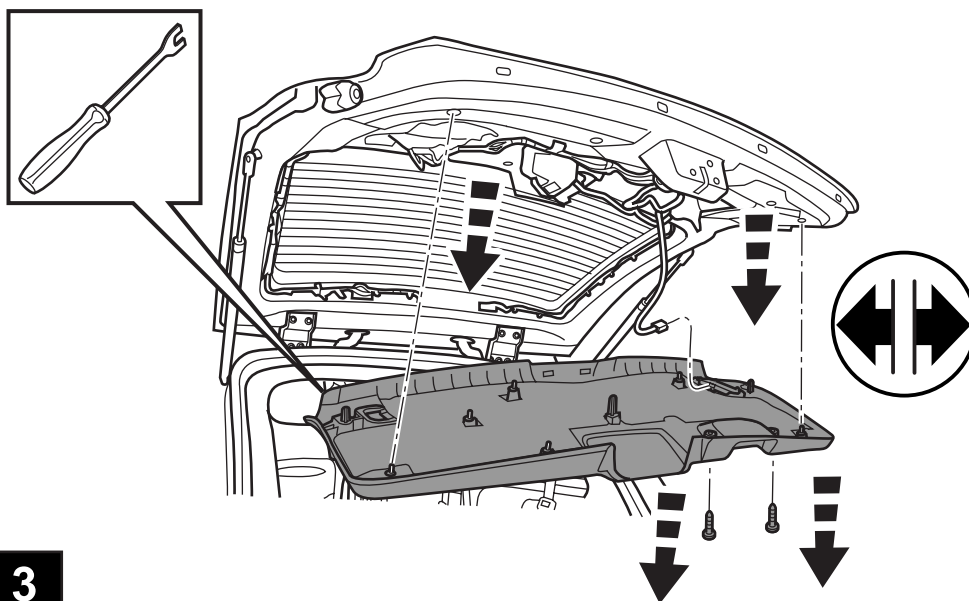
A. Tailgate Trim Removal:

- 2) Remove torx screw from power-assist arm, T-30 torx.



2

- 3) Remove upper trim panel with fork tool.

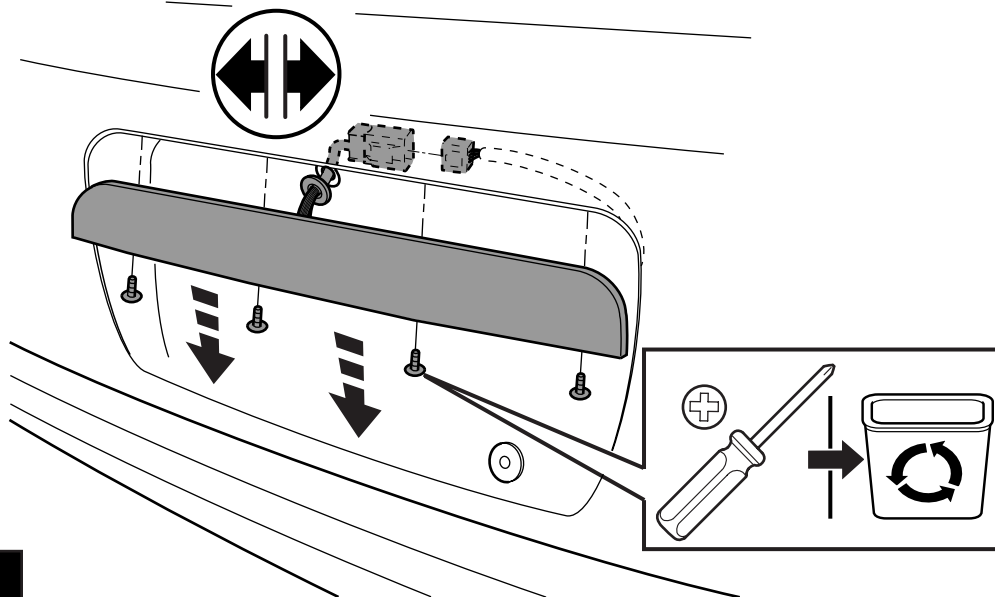


3

- 4) Remove (2) phillips head screws on lower trim panel handle.

- 5) Pry off lower trim panel cover with fork tool.

- 6) Disconnect rear door interior light.

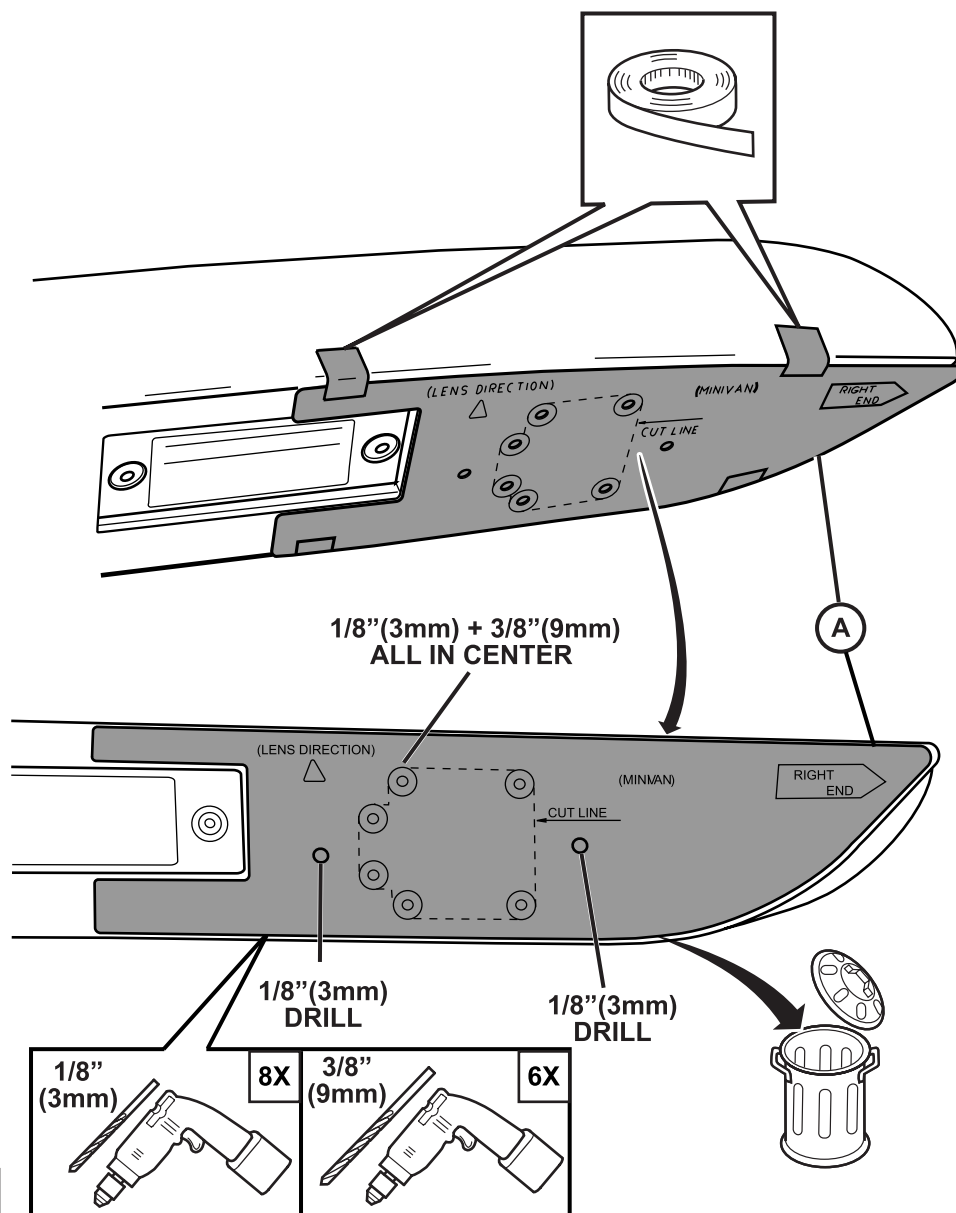


**A. Tailgate Trim
Removal: (Cont.):**

- 7) Disconnect liftgate handle harness from inside of liftgate.
- 8) Remove liftgate handle with (4) phillips head screws.

**B - Install Camera &
Extension Harness:**

- 1) Place template (Item A) on rear handle trim as shown & secure with tape.
- 2) Drill holes in rear handle (1/8" pilot drill, 3/8" drill center holes only).

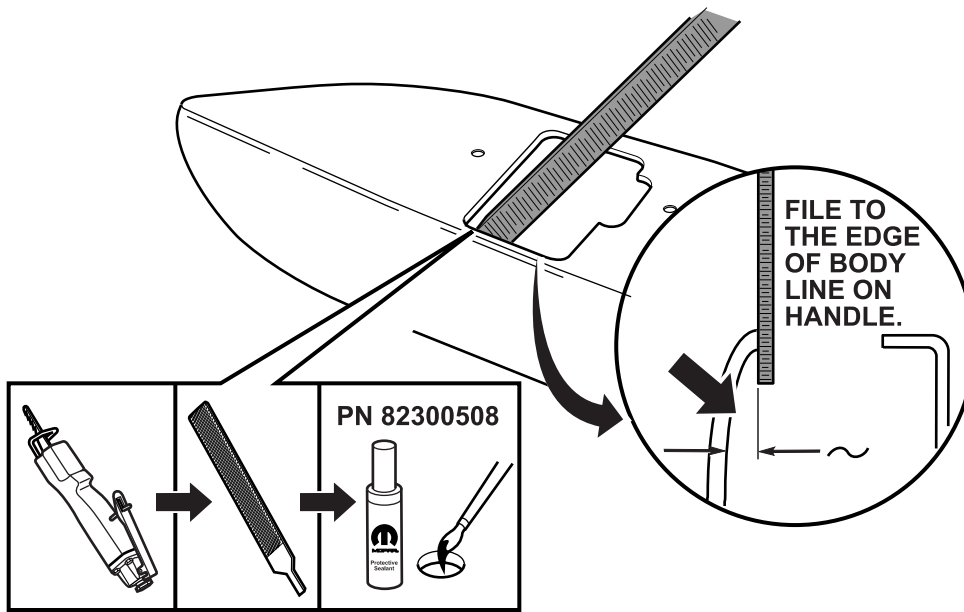


B - Install Camera & Extension Harness (Cont.):

- 3) Cut out center section with hand saw & discard.
- 4) File edges smooth as shown.
- 5) Mask off, cut out and apply clean paint sealant to prevent paint/chrome delamination.

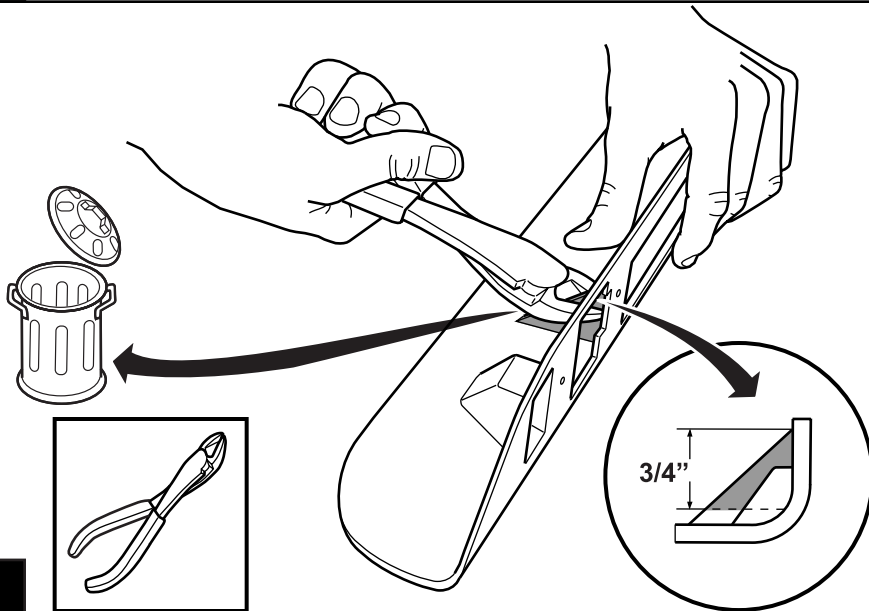
NOTE:
FILE BODY SIDE RIGHT TO EDGE FOR PROPER CAMERA CLEARANCE.

6



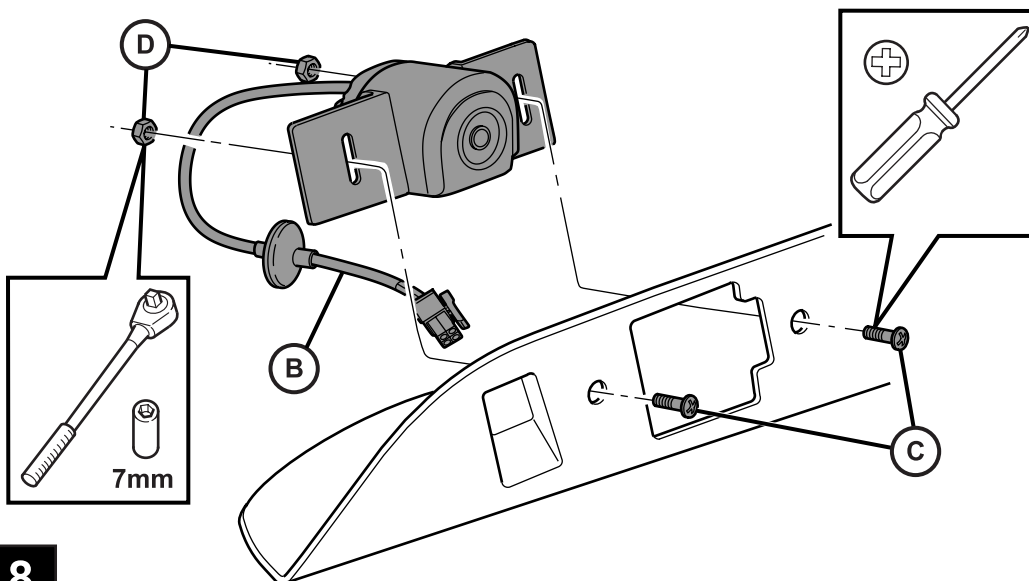
- 6) Cut out 3/4" of support strut inside of rear handle for proper camera clearance and discard.

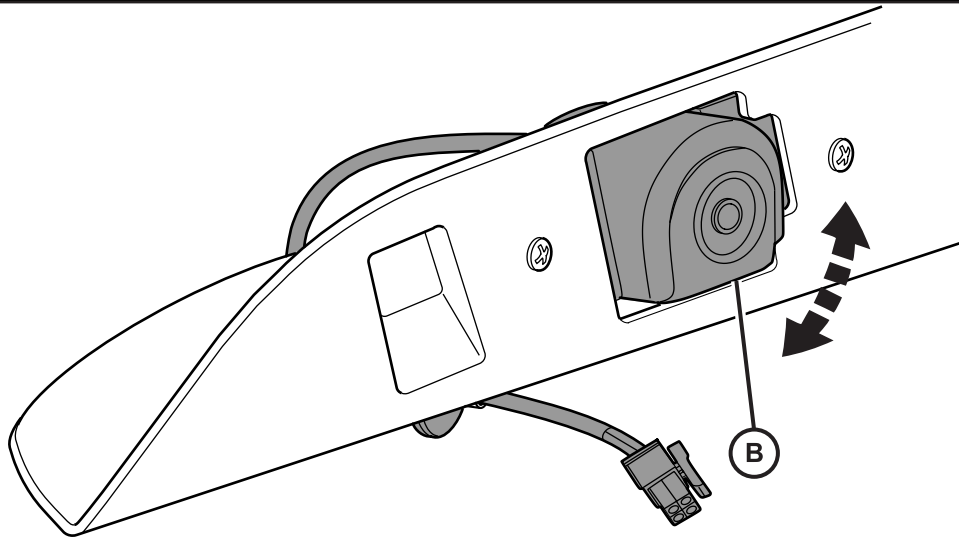
7



- 7) Install camera (Item B) to rear trim handle using (2) screws (Item C) and (2) nuts (Item D) with a phillips screw driver and 7mm socket.

8

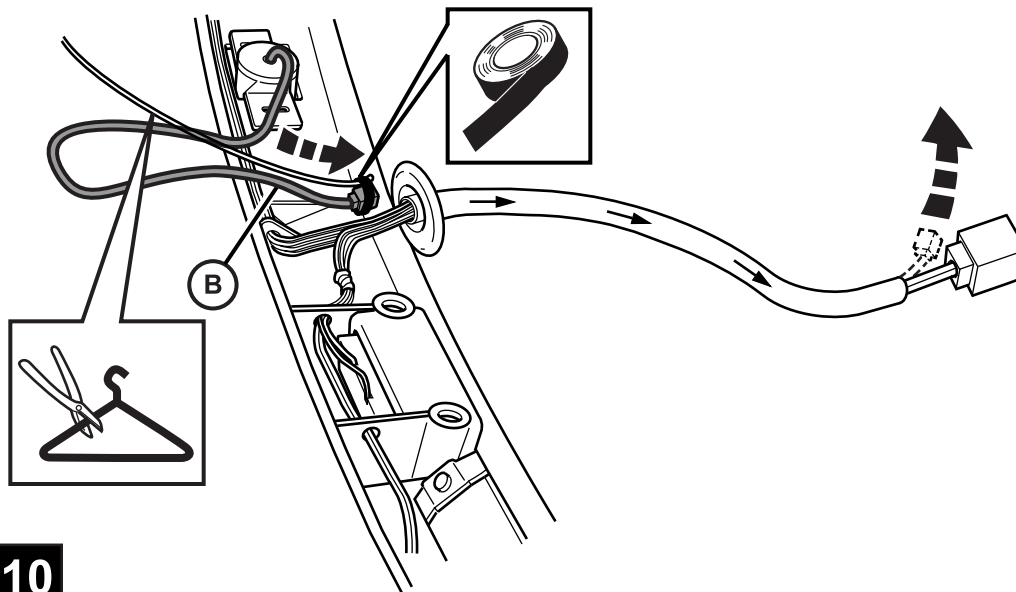




B - Install Camera and Extension Harness (Cont.):

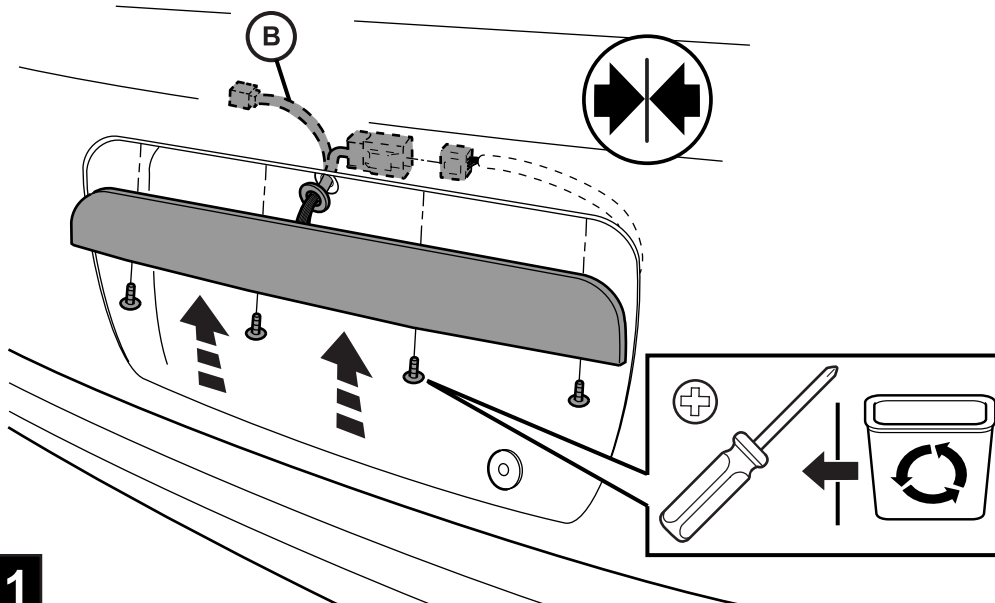
- 8) Tilt camera to ensure there is room for manual adjustment when completed.

9



- 9) Attach fish hook to connector end of camera harness and slide through rear trim handle grommet tube.

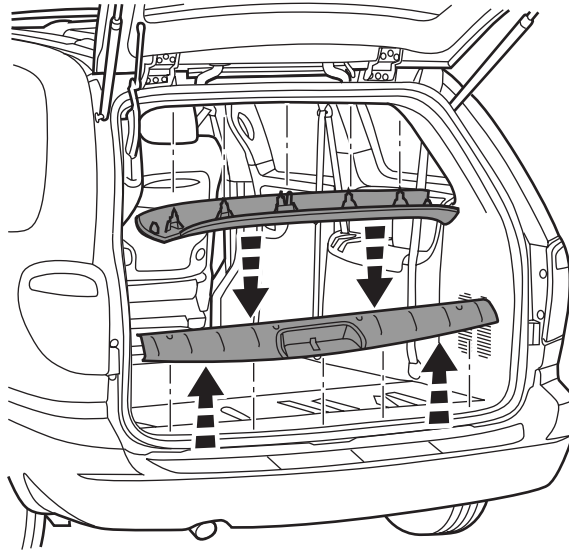
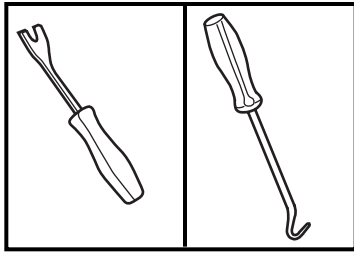
10



- 10) Feed rear trim panel grommet harness through rear door.

- 11) Connect harness and fasten rear trim handle with (4) phillips head screws.

11



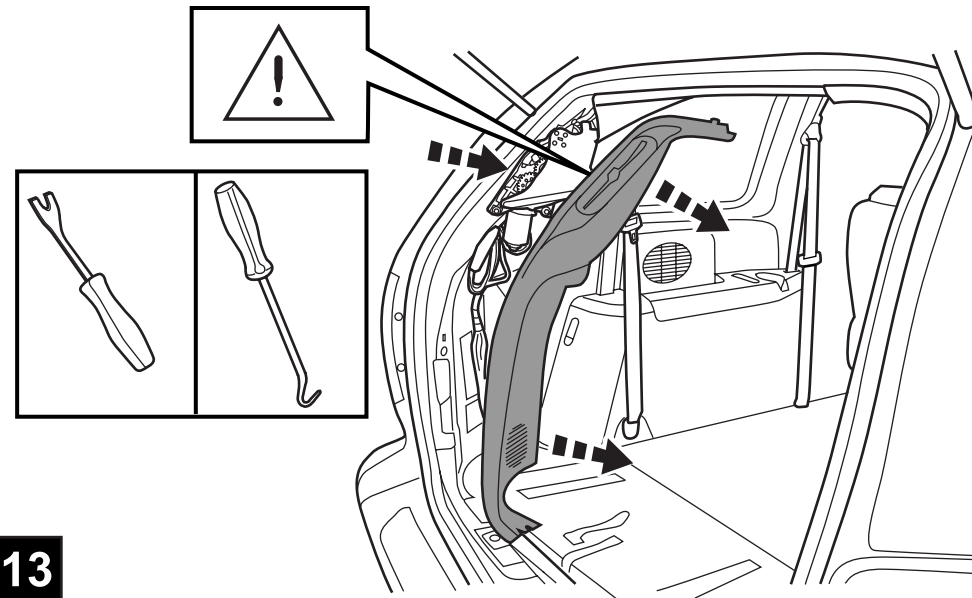
C - Interior Trim Panel Removal:

- 1) Remove upper and lower sill trim panels.

12

- 2) Pull back the left side, inside rear trim panel, Do Not Remove.

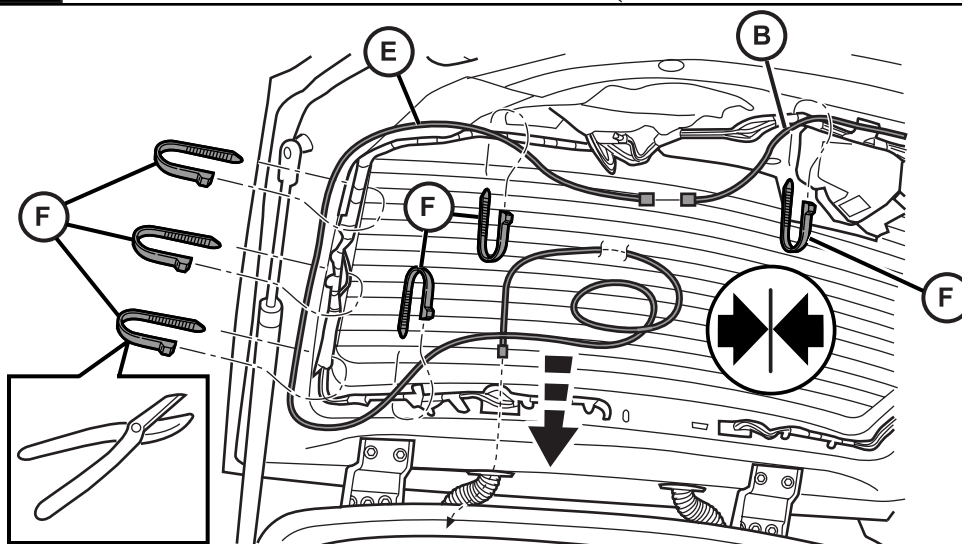
! WARNING
CARE SHOULD BE TAKEN WHEN PULLING BACK REAR TRIM PANEL NOT TO PULL ON SPEAKER WIRE. DISCONNECTION MAY BE NECESSARY.



13

D - Extension Harness Routing:

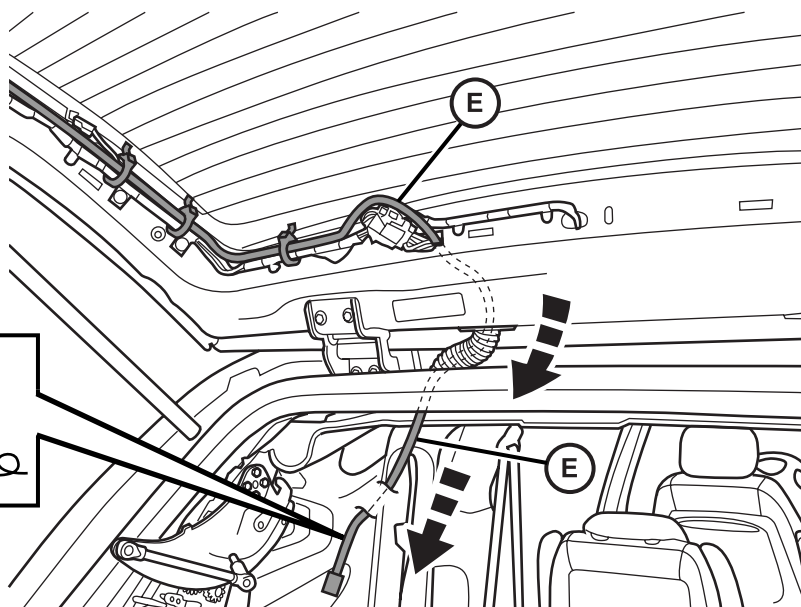
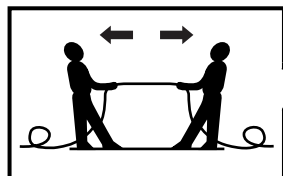
- 1) Attach extension harness (Item E) to harness on camera (Item B). Route extension harness along main rear door harness to grommet hole, tie strapping (item F) along the way.



14

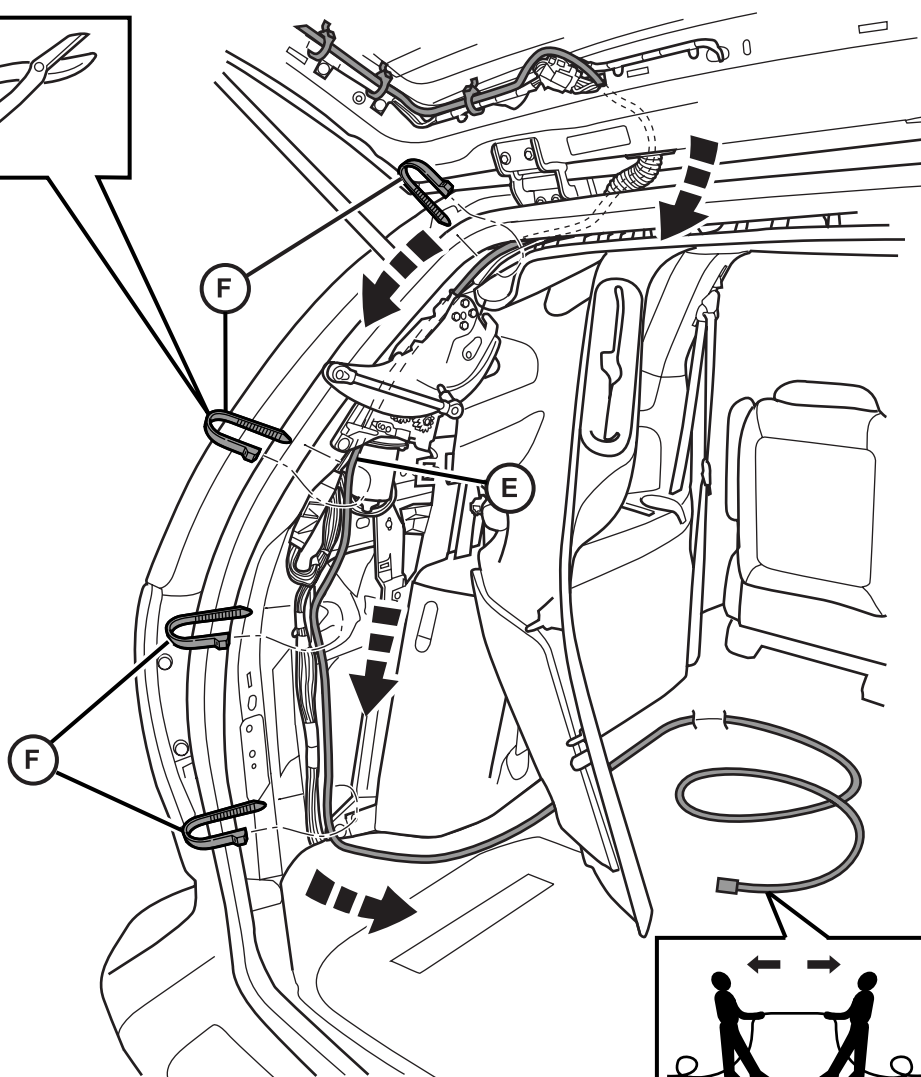
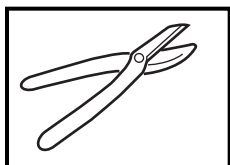
D - Extension Harness Routing (Cont.):

- 2) Feed end of extension harness (Item E) through rear door harness opening & grommet. Pull tight all excess extension harness.

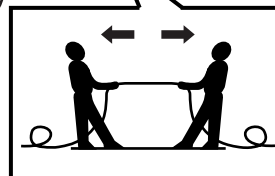


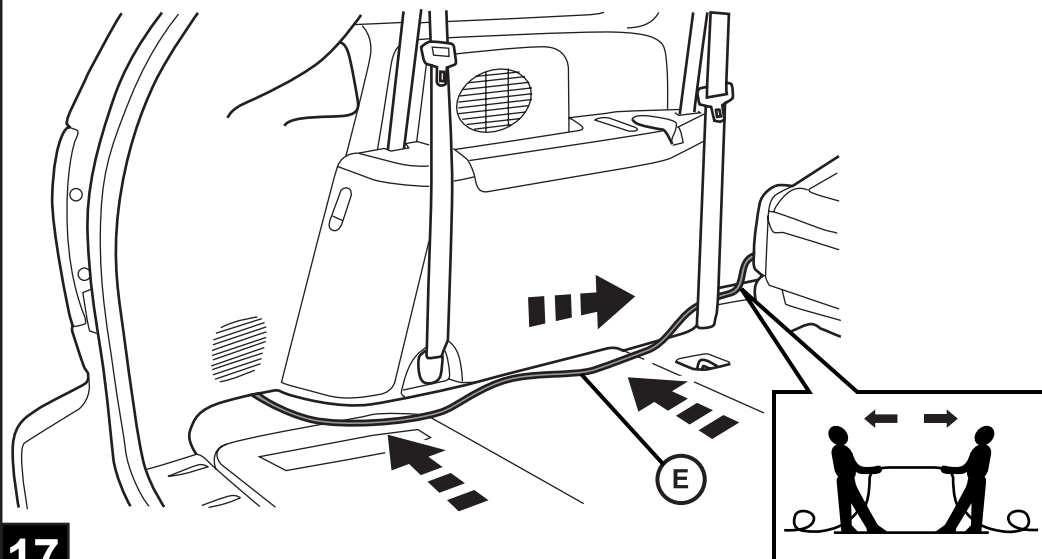
15

- 3) Route extension harness (Item E) down behind rear door actuator following along main harness assembly, tie strapping (Item F) as you go.
- 4) Once reaching the floor, pull tight all excess extension harness.
- 5) Reinstall all previously removed items. Reverse steps 13, 14, 4, 2 and 1.



16

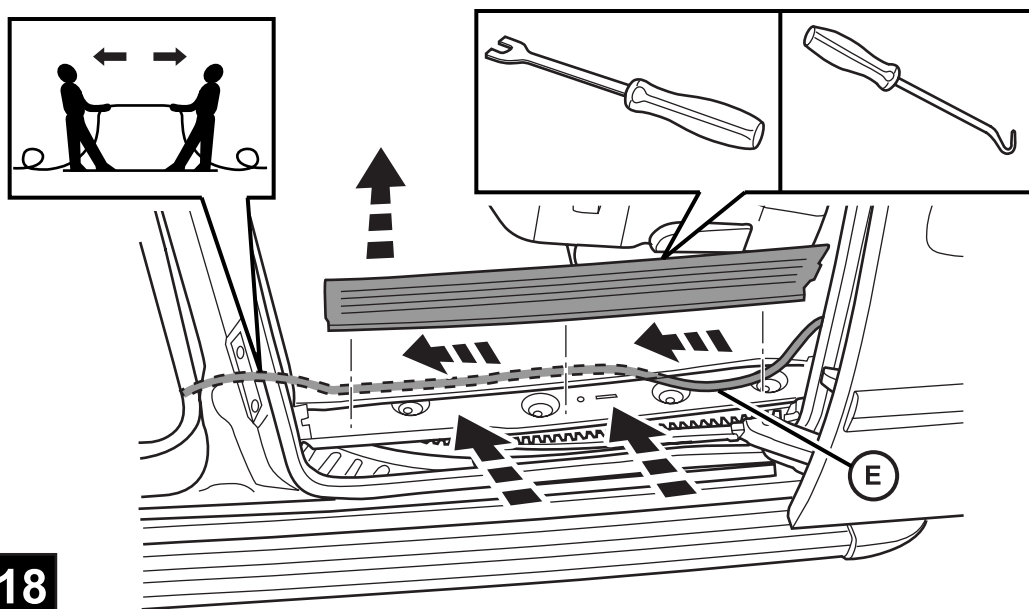




17

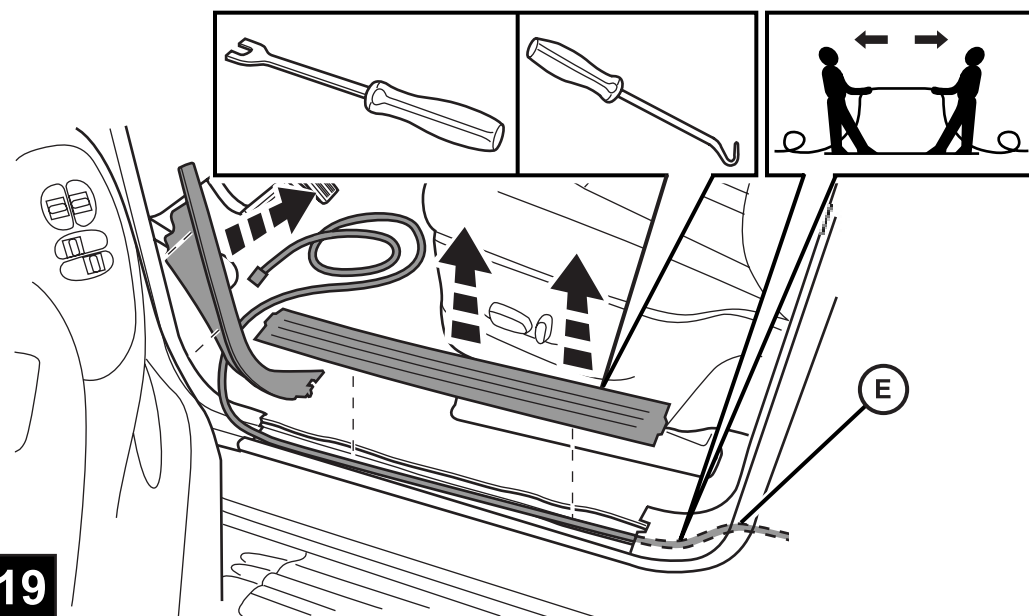
D - Extension Harness Routing (Cont.):

- 6) Route extension harness (Item E) around rear trim panel tucking in as you go.
- 7) Pull all excess extension harness tight when reaching passenger door well.



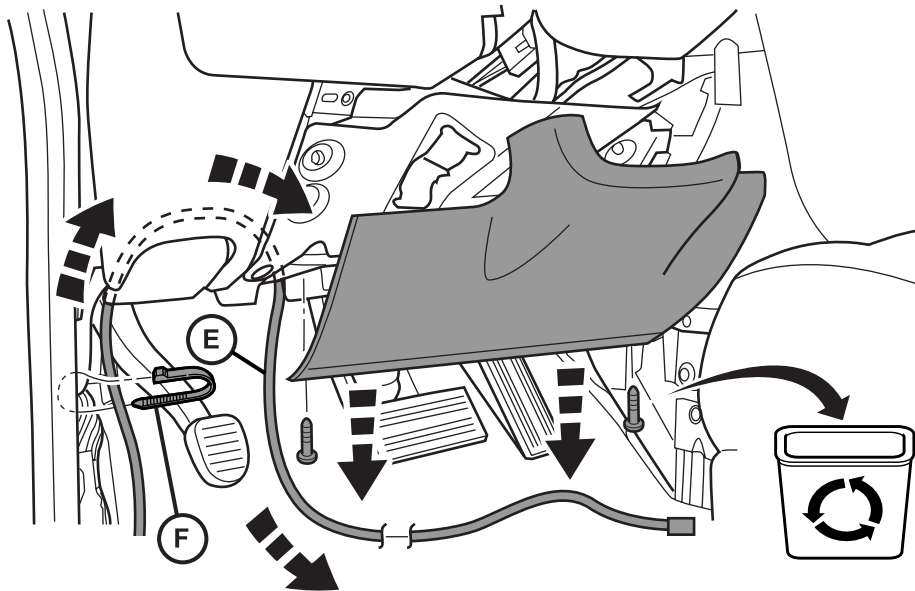
18

- 8) Remove passenger side door sill behind driver's side.
- 9) Route extension harness (Item E) under carpet, tucking along the way to B-Pillar.
- 10) Replace door sill.



19

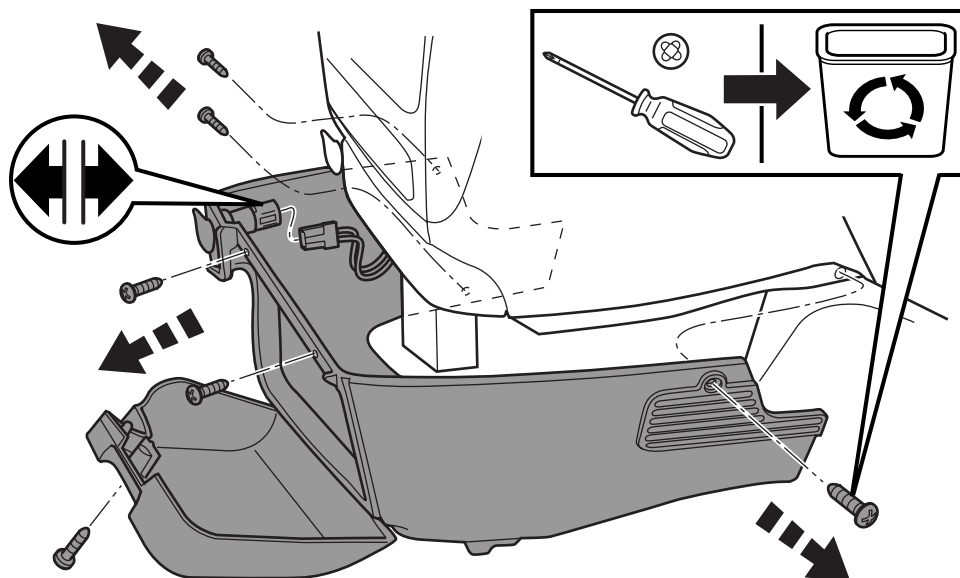
- 11) Remove driver's side lower door sill and kick plate.
- 12) Route extension harness (Item E) under carpet, tucking along the way.
- 13) Do not replace door sill and kick plate.



20

D - Extension Harness Routing (Cont.):

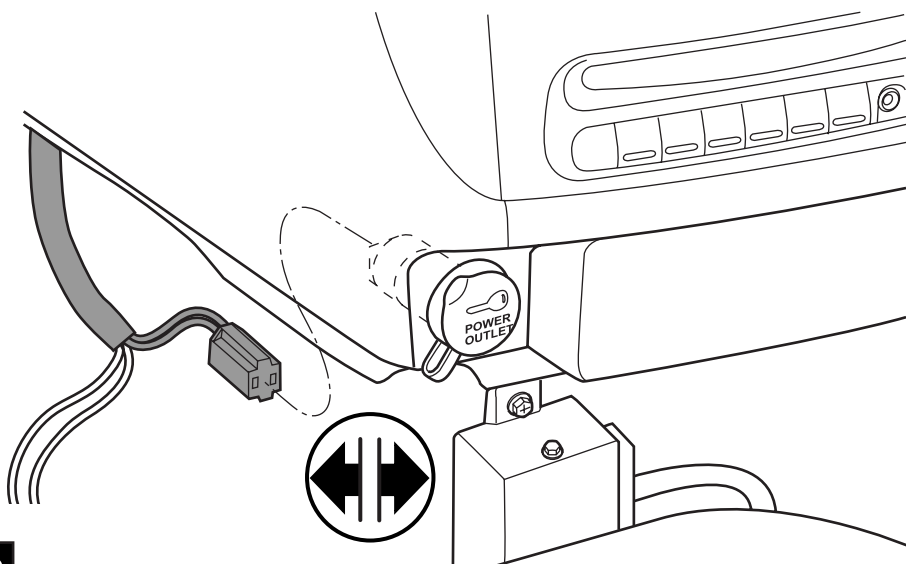
- 14) Remove knee bolster with (2) phillips head screws.
- 15) Route extension harness (Item E) along main harness assembly through knee bolster opening. Fasten with one tie strap (Item F).



21

E - Install T-Harness, Monitor & Junction Box:

- 1) Remove the lower trim bezel with one screw in front and (2) on each side.
- 2) Disconnect the power supply to the lower power outlet.

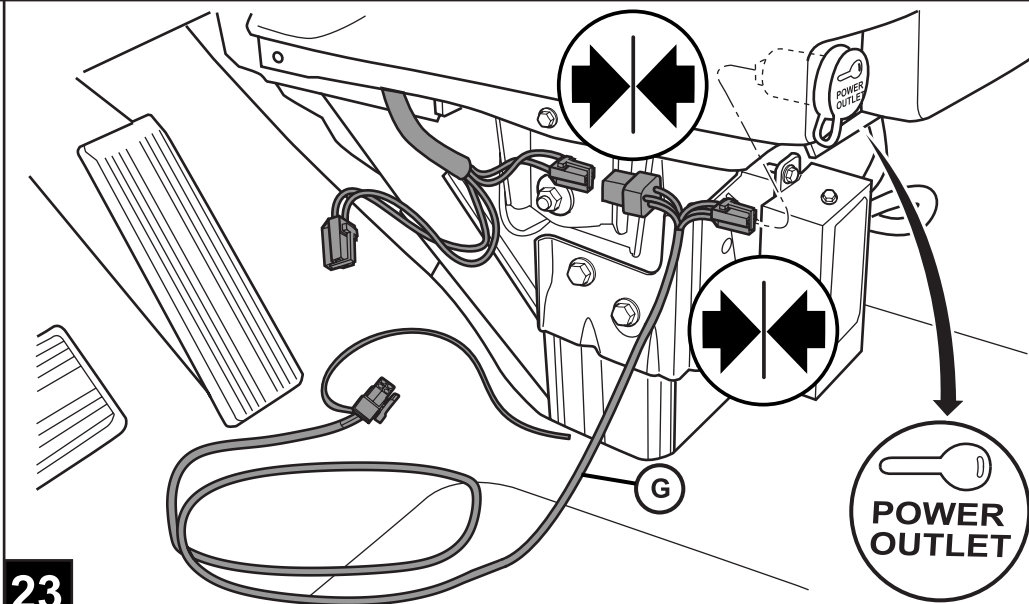


22

- 3) Disconnect the ignition key power supply.

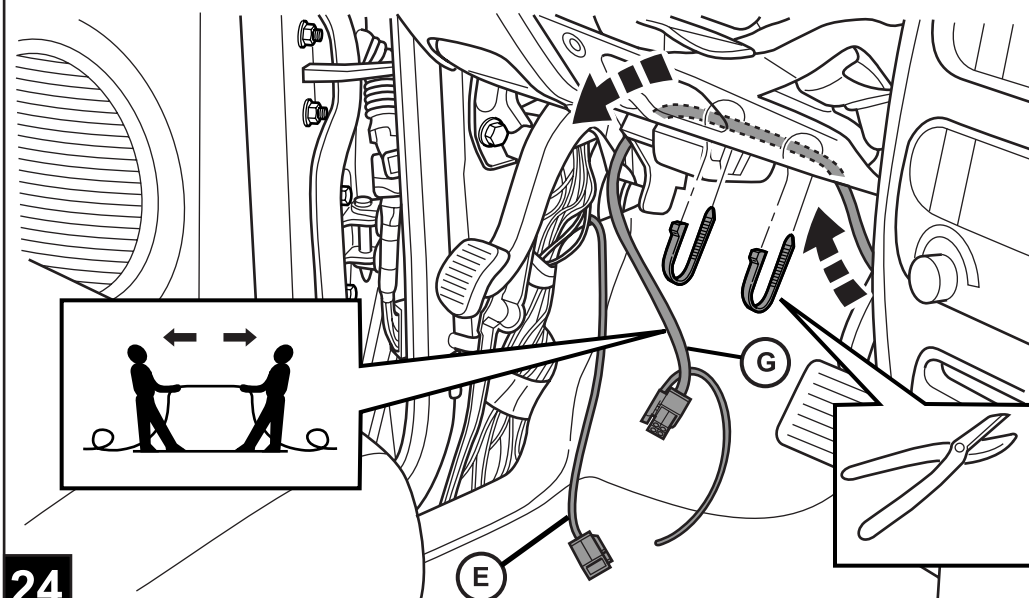
E - Install T-Harness, Monitor & Junction Box (Cont.):

- 4) Connect the smaller T-Harness connector (Item G) between ignition feed outlet. Make sure it is not the accessory power outlet.



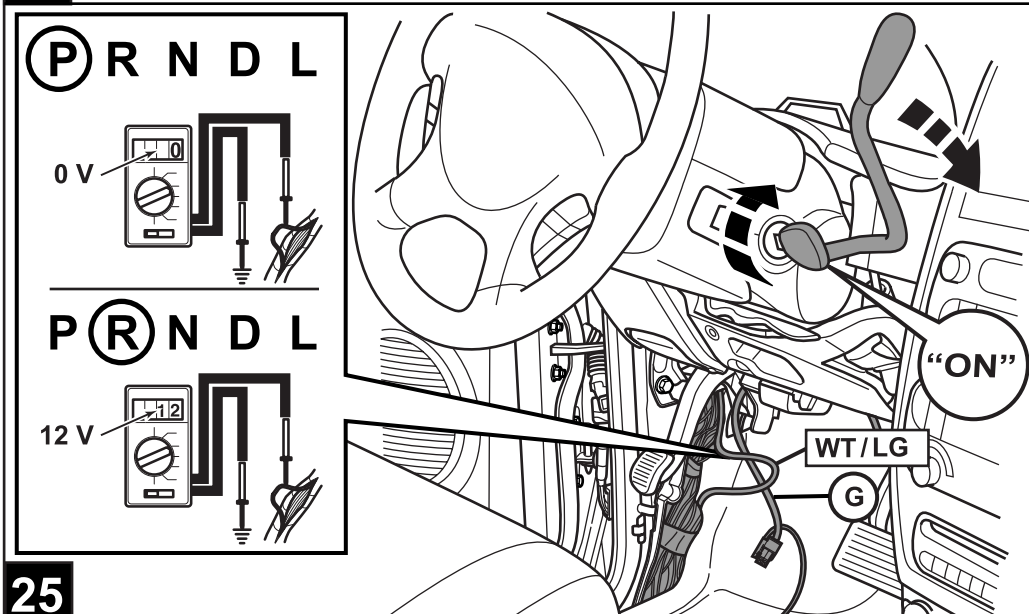
23

- 5) Route T-Harness around steering column over to kick plate.
- 6) Tie strap (Item F) in two places.
- 7) Re-assemble the lower trim bezel, reverse order in step 21.

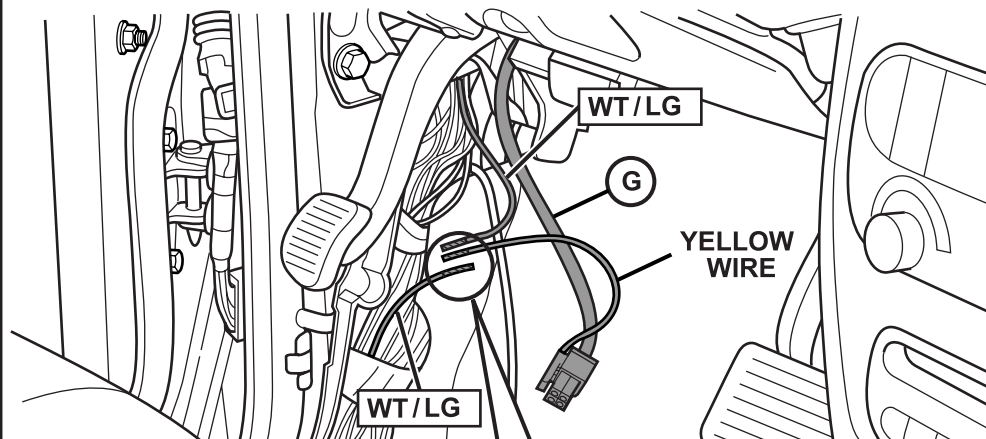


24

- 8) Reconnect battery.
- 9) Perform test procedure, 12 volt reading when vehicle is engaged in "Reverse", 0 volts in any other position (12 volt multimeter).
- 10) Locate "Reverse" wire in main bundle.



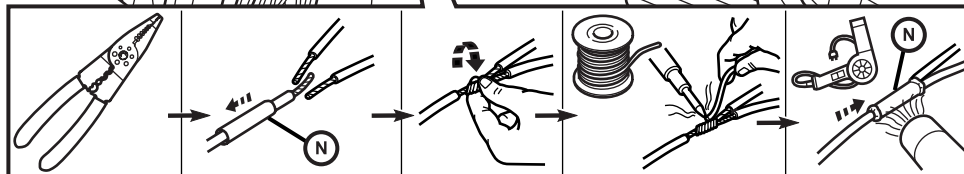
25



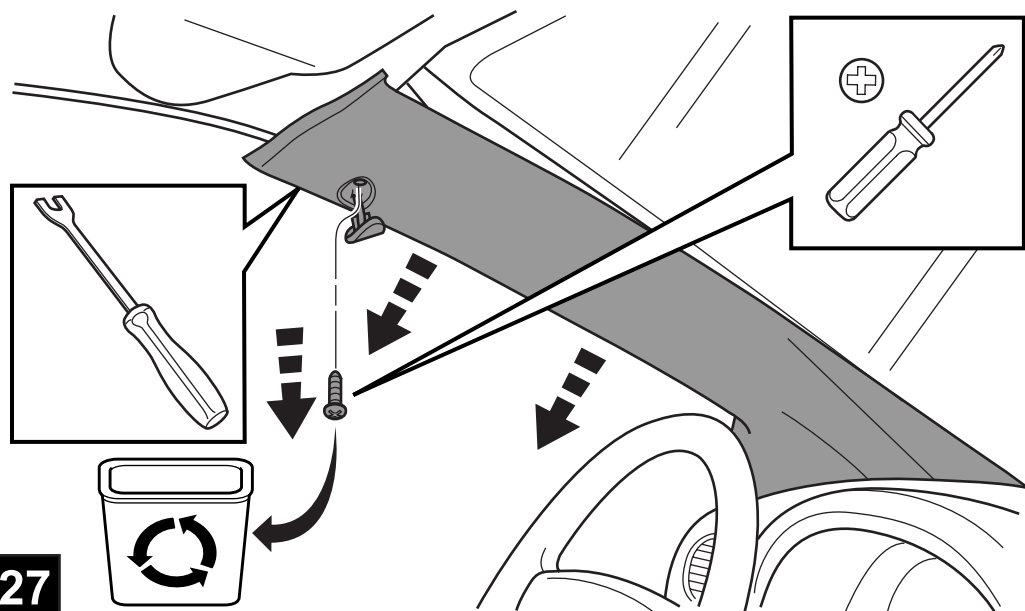
***E - Install T-Harness,
Monitor & Junction
Box (Cont.):***

- 11) Disconnect battery.
- 12) Splice T-Harness into "Reverse" wire. Follow stripping & soldering procedures.

26

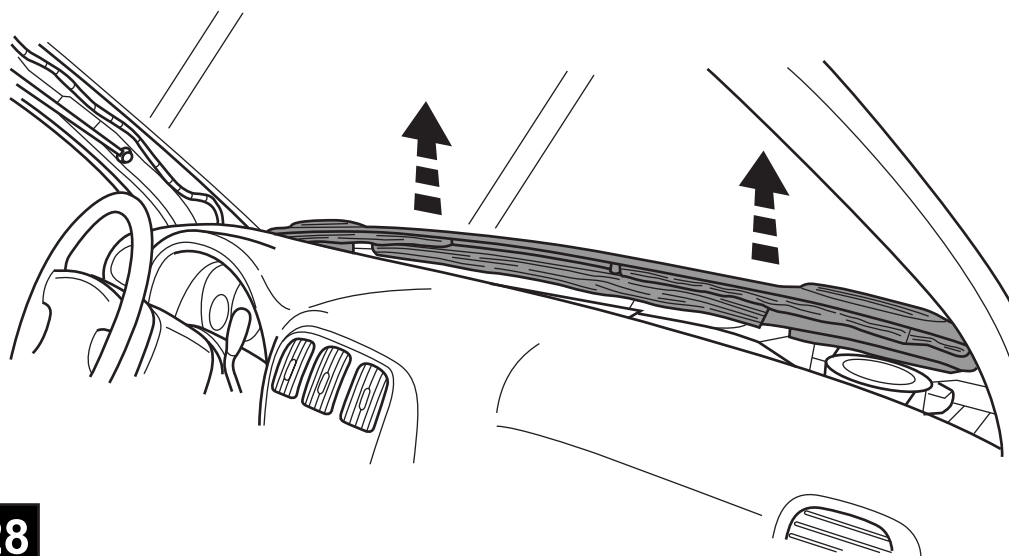


27



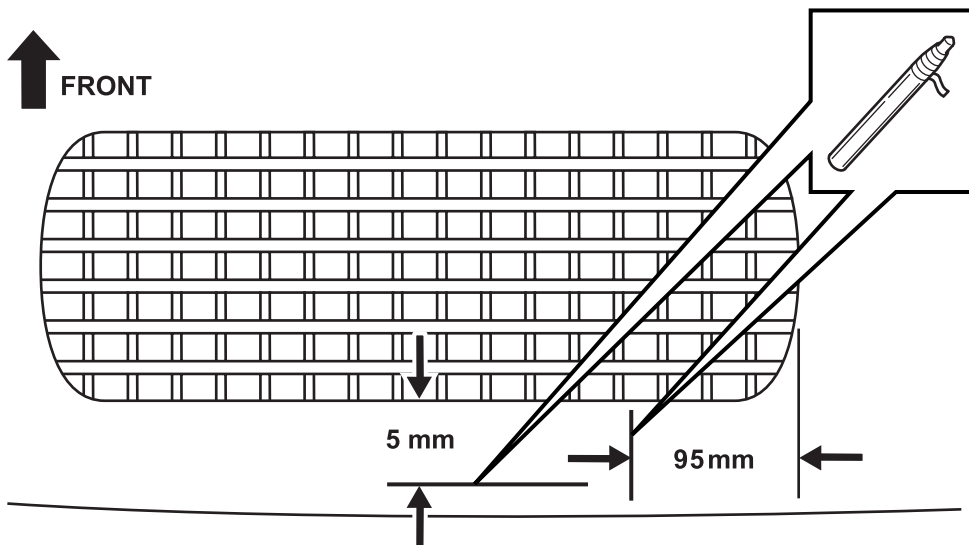
- 13) Pull back A-Pillar trim cap and remove one phillip head screw on each side.

28



- 14) Remove dash panel and place on bench.

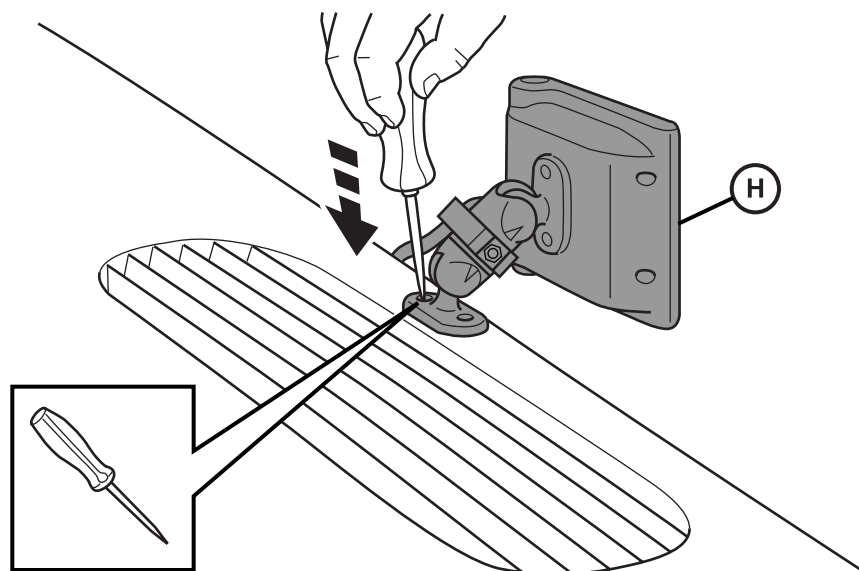
↑ FRONT



E - Install T-Harness, Monitor & Junction Box (Cont.):

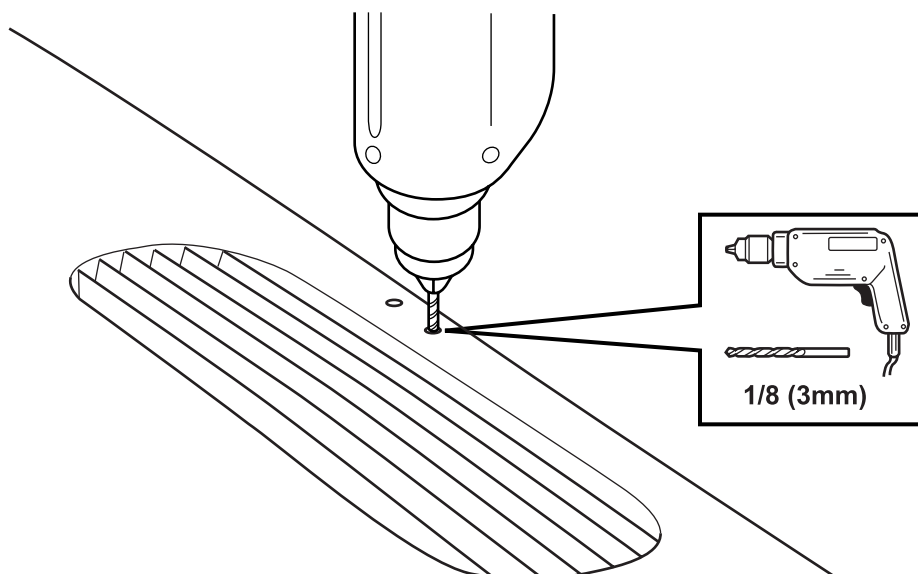
- 15) With dash panel cover placed on a bench, measure 95mm from the right side of defroster vent and mark a line.
- 16) Then measure 5mm from bottom edge of defroster vent and mark a line.

29



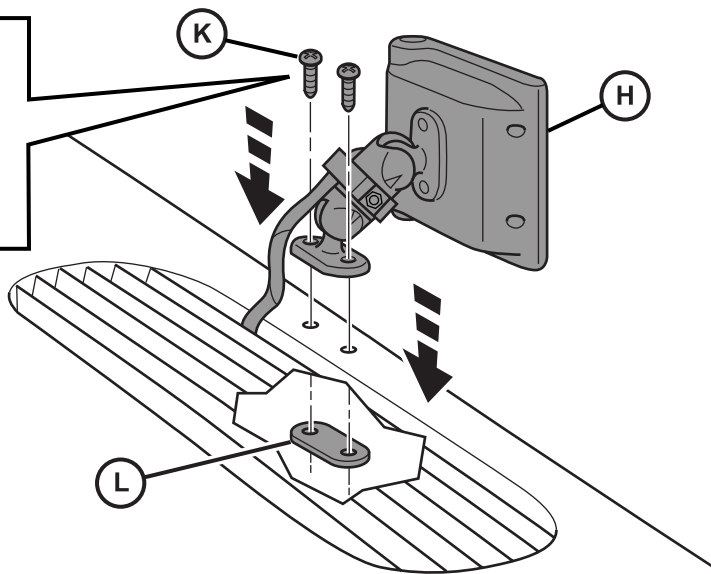
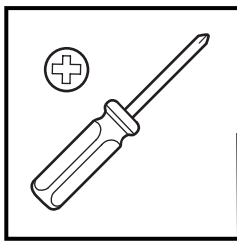
- 17) Place monitor assembly (Item H) in place on dash cover inline with the scribe marks and indent a hole with a hole punch in both sides of mounting holes, remove monitor.

30



- 18) Drill 1/8 (3mm) holes through marked locations.

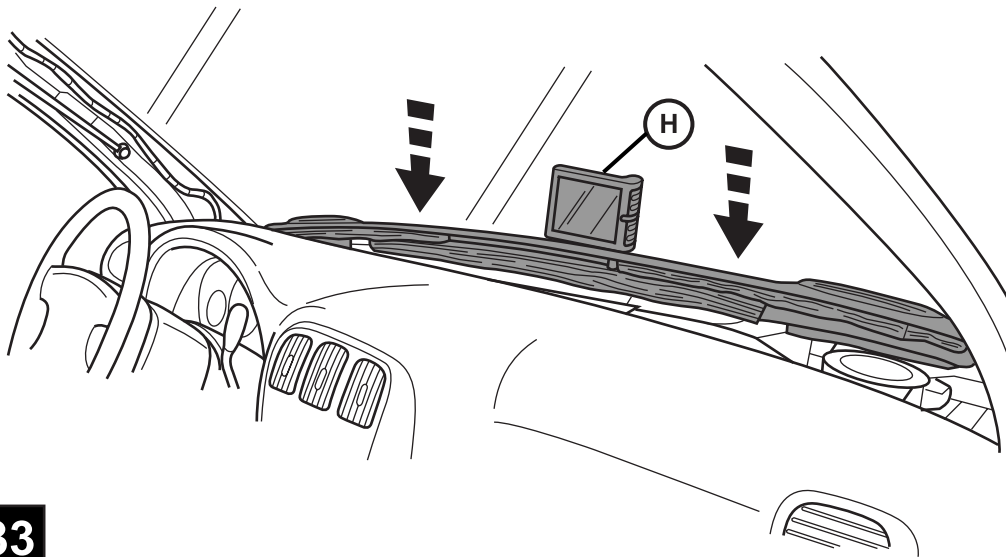
31



**E - Install T-Harness,
Monitor & Junction
Box (Cont.):**

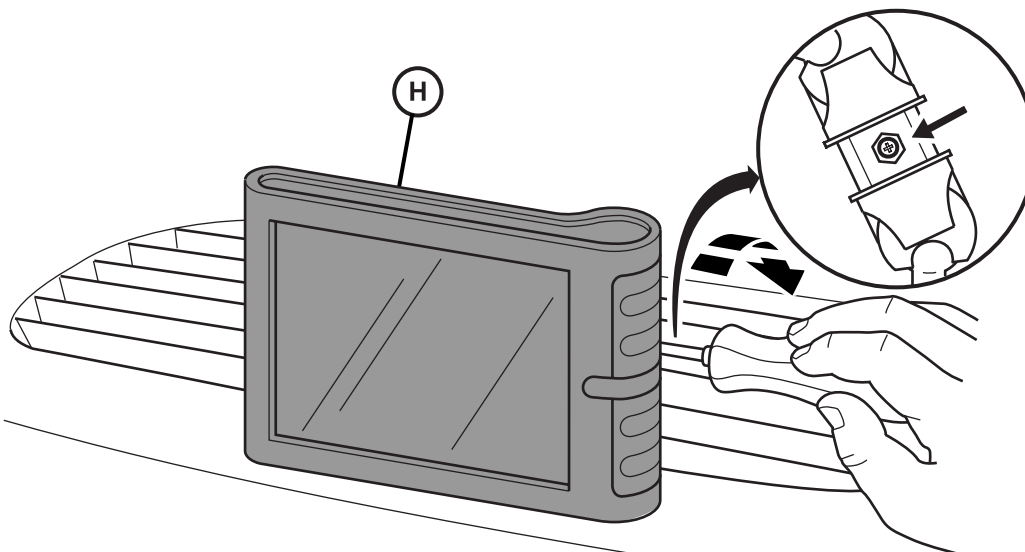
- 19) Install monitor assembly (Item H) with (2) screws (Item K) and support plate (Item L), with a phillips head screw driver.

32



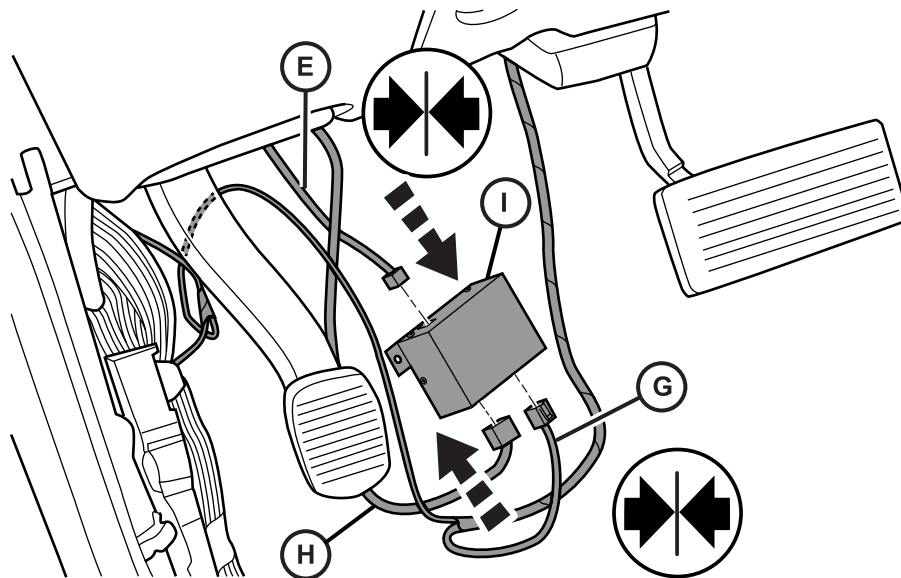
- 20) Reinstall dash cover and route harness from monitor assembly (Item H) in front of dash panel and along the top of the dashboard down through the A-Pillar.

33



- 21) Adjust monitor with screw driver as needed. Mount against dash surface.
- 22) Replace A-Pillar on both sides, driver's side door sill and kick plate.

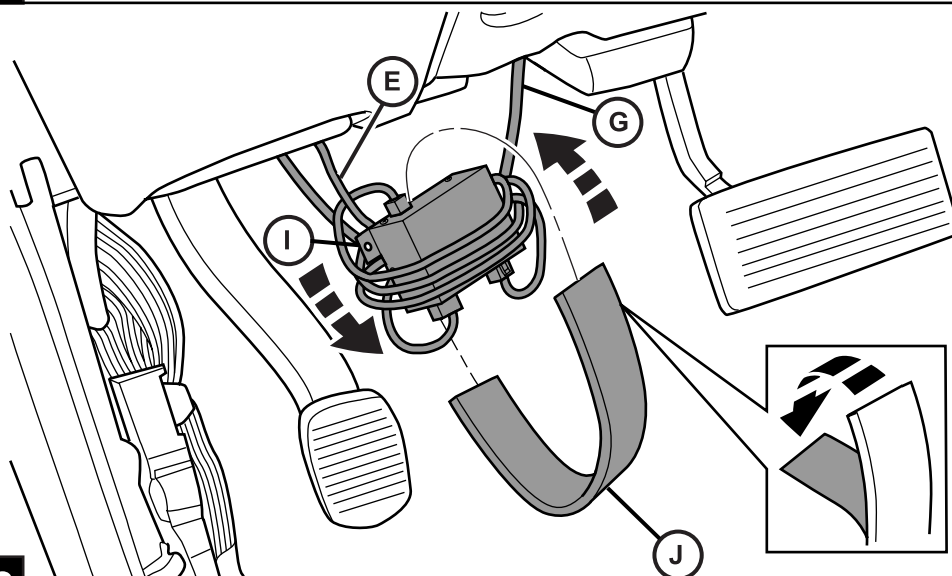
34



35

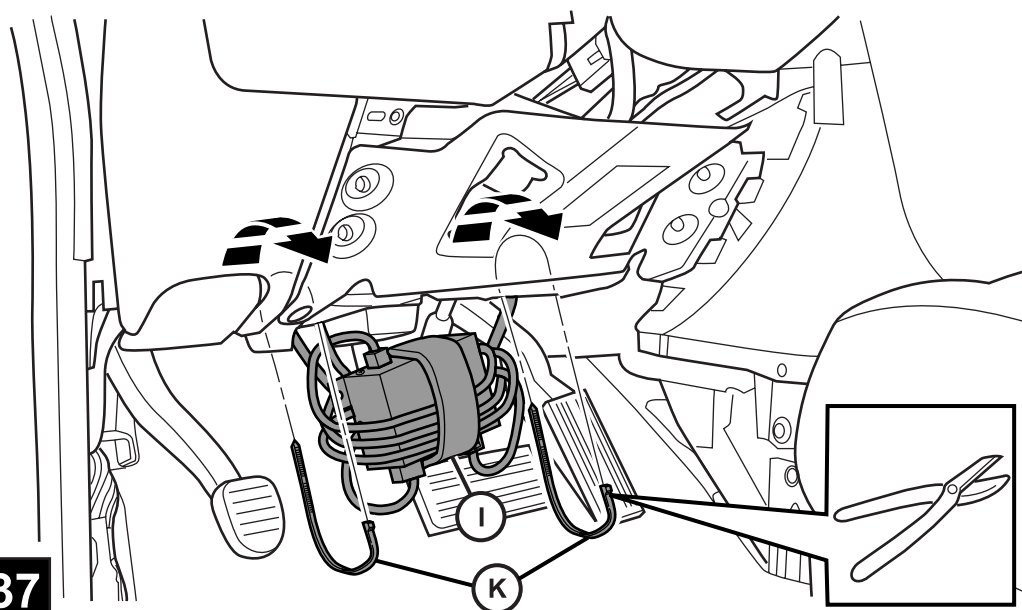
***E - Install T-Harness,
Monitor & Junction
Box (Cont.):***

- 23) Connect extension harness (Item E) to junction box (Item I). Connect harness from monitor assembly (Item H) to junction box. Then connect T-harness (Item G) to junction box.



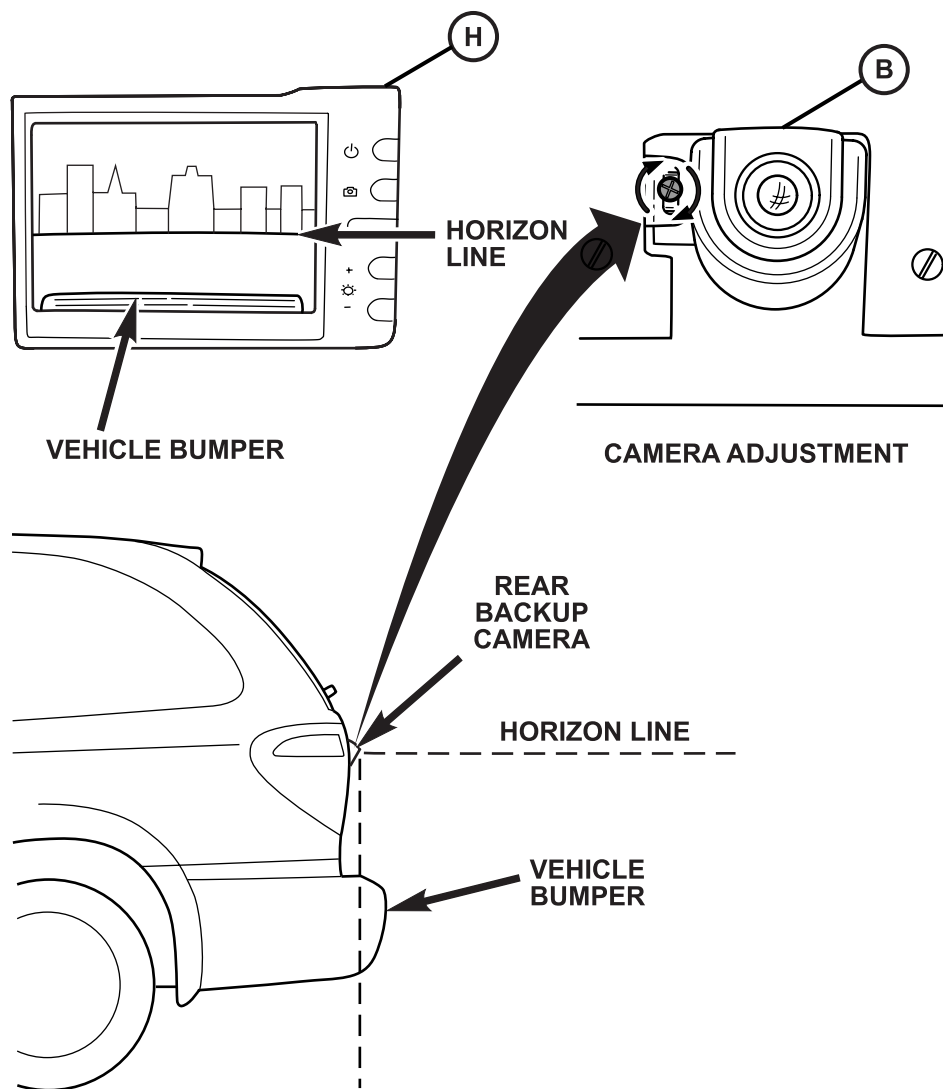
36

- 24) Wrap all excess wires around junction box (Item I) and secure with foam tape (Item J).



37

- 25) Tie strap junction box (Item I) & wires under knee bolster with (2) large tie straps (Item K).
- 26) Replace knee bolster and reconnect battery.



F -Camera Adjustments:

- 1) To adjust camera view angle, locate adjustment screw under the camera on the left side.
- 2) Turn the screw to the right to lower the camera. Turn the screw to the left to raise the camera.
- 3) Check the camera view on the monitor (Item H). The camera angle is set to view the bumper and the horizon.

NOTE:

DUE TO THE WIDE ANGLE OF THE CAMERA, OBJECTS SHOWN ON THE MONITOR ARE CLOSER THAN THEY APPEAR.