



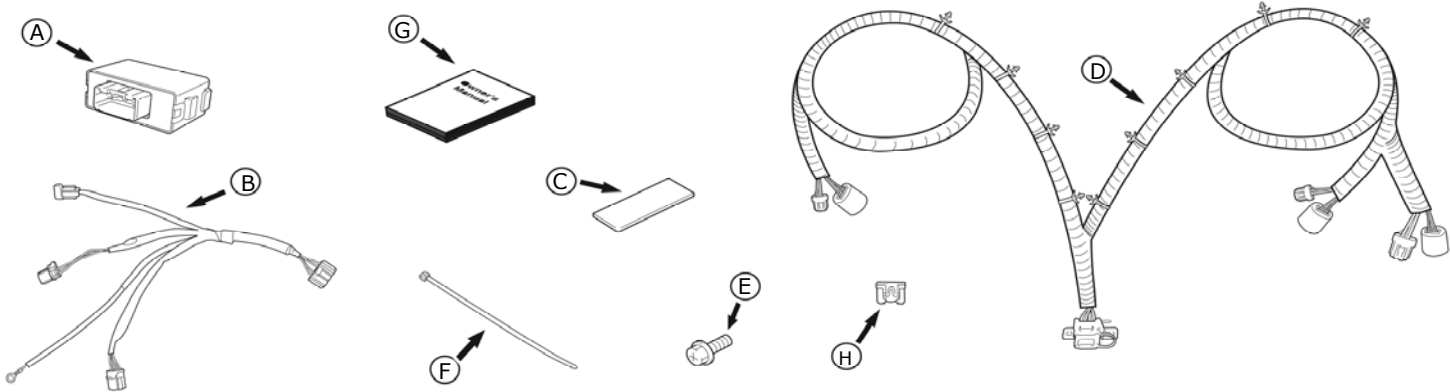
GENUINE PARTS

INSTALLATION INSTRUCTIONS

DESCRIPTION:	Tow Hitch Wire Harness Kit
APPLICATION:	Quest (2011)
PART NUMBER:	999T8 NW000
Installation of this accessory requires installation of additional part(s)	
• Tow Hitch 999T5 NW010	

KIT CONTENTS:

Item	Qty.	Part Description	Service Part Number
A	1	Converter	999T8 NW000S1
B	1	Interior Wire Harness	999T8 NW000S2
C	5	Foam Tape	N/A
D	1	Exterior Wire Harness	999T8 NW000S3
E	2	Bolt, Hex (M5)	N/A
F	20	Plastic Ties	N/A
G	1	Owner's Manual	N/A
H	1	Fuse	24319 89920



TOOLS REQUIRED:

- Ratchet
- 3" extension
- 8mm socket
- 10mm deep well socket
- Wire cutters

SPECIAL TOOLS:

- Torque Wrench 15 Nm (150 in-lb)
- Drill
- 36mm hole saw
- Nylon removal tool
- Vacuum cleaner
- Center punch
- Measuring tape
- ≥90% alcohol
- Genuine Nissan Tectyl 517 (Bitumen) Wax Sealer (Part Number: 999MP 9G001P)
- Trailer light circuit tester

PRE-INSTALLATION WARNINGS, CAUTIONS, CRITICAL STEPS, and NOTES:

- Installation requires special tool(s).
- Dealer Installation Recommended. Instructions may refer to Service Manual.

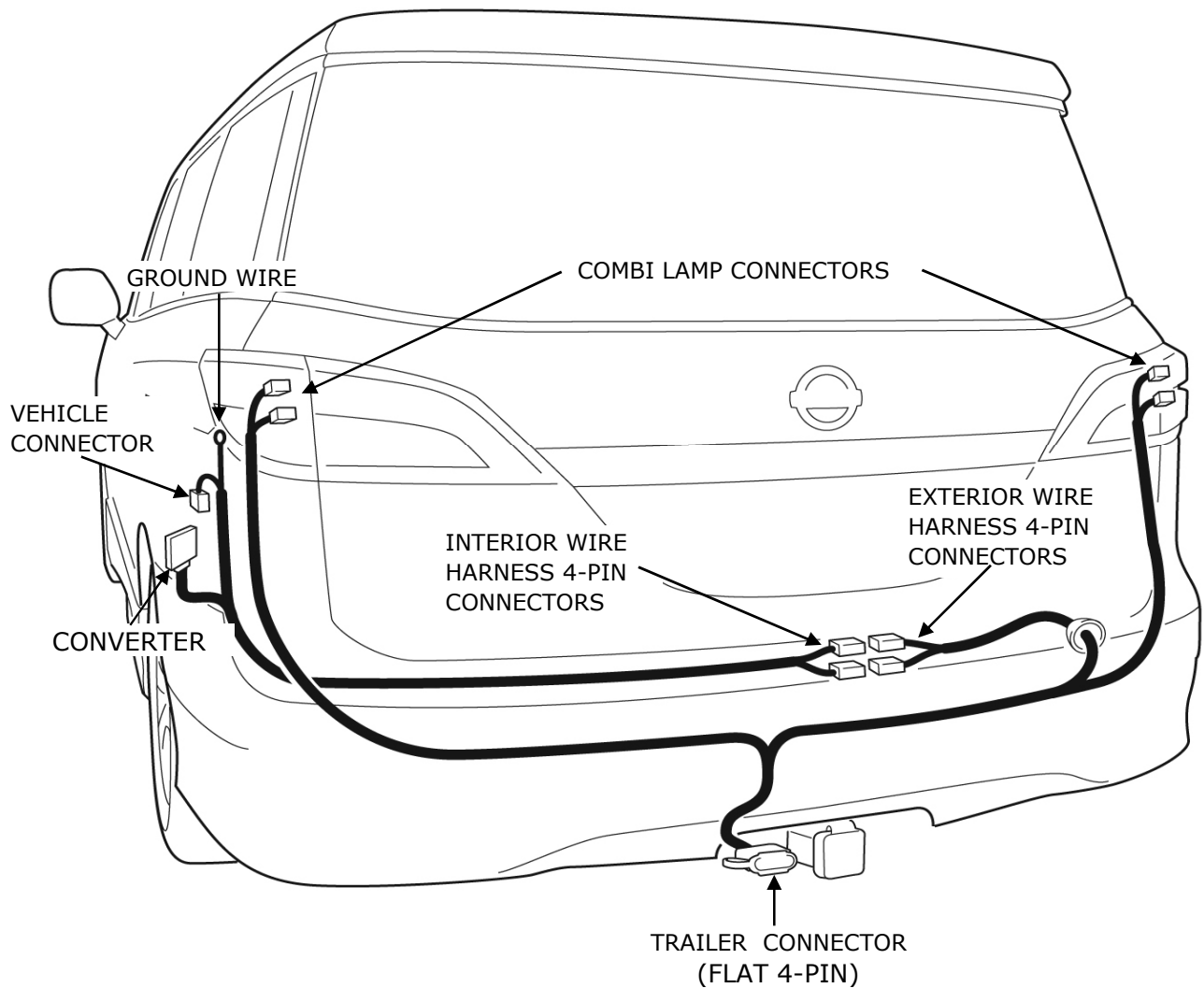
⚠ WARNING

- When vehicle is raised with a floor jack or hoist, use safety stands to support the vehicle.

⚠ CAUTION

- Wear safety glasses when drilling grommet hole and dressing the drilled hole in Step 22.

INSTALLATION OVERVIEW:



INSTALLATION PROCEDURE:

- 1) Apply parking brake
- 2) Turn ignition switch to "ON" position
- 3) Record the customer radio presets and other presets as required

Preset	1	1	2	3	4	5	6	

- 4) Put shift lever in "P" position.
- 5) Turn ignition switch to "OFF" position.

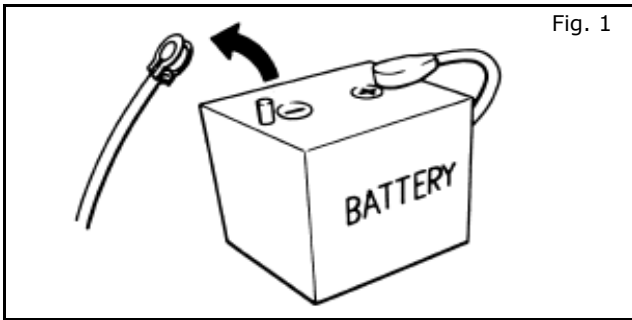


Fig. 1

- 6) Disconnect the negative (-) battery terminal.

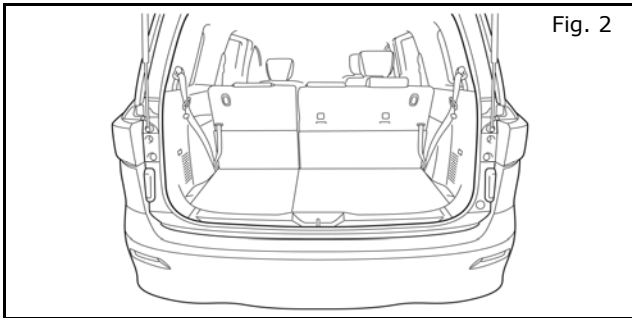


Fig. 2

- 7) Open the rear hatch.

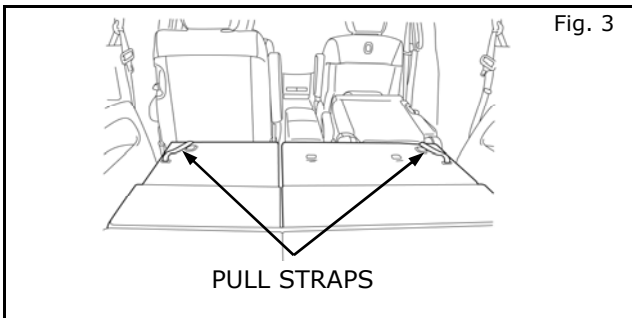


Fig. 3

- 8) Use pull straps on the back of the rear seats to fold down rear seats.

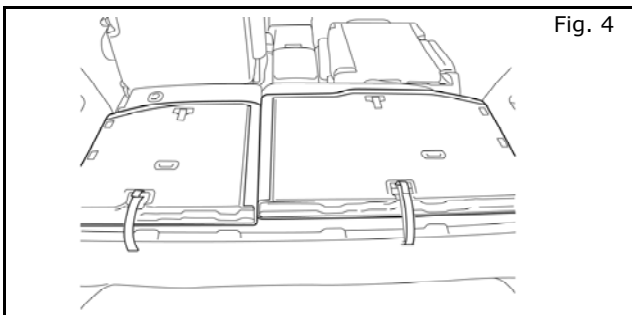
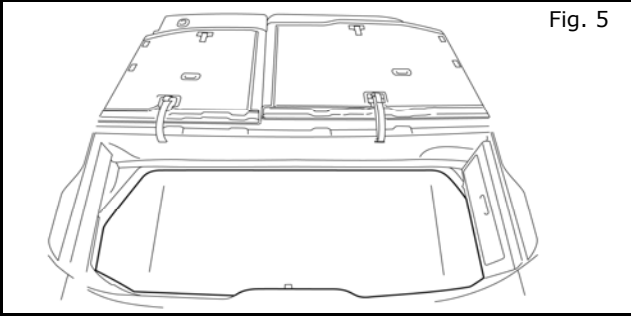


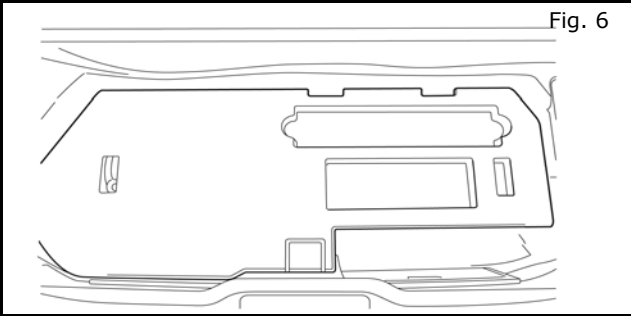
Fig. 4

- 9) Fold both storage covers forward.

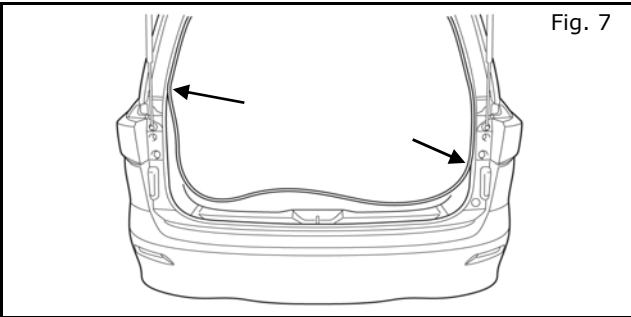
INSTALLATION PROCEDURE:



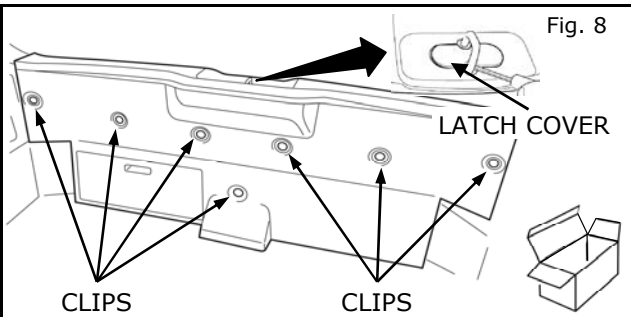
10) Remove storage bin lower section.



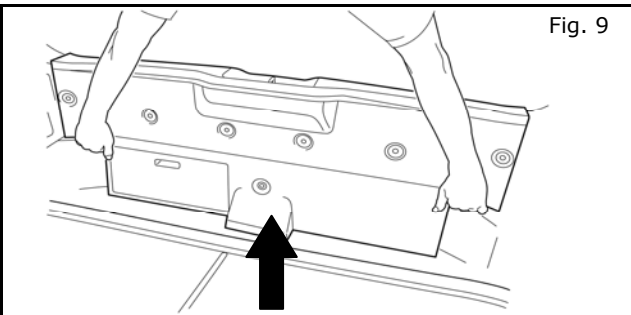
11) Remove package tray.



12) Partially remove rear hatch weather seal from about as shown

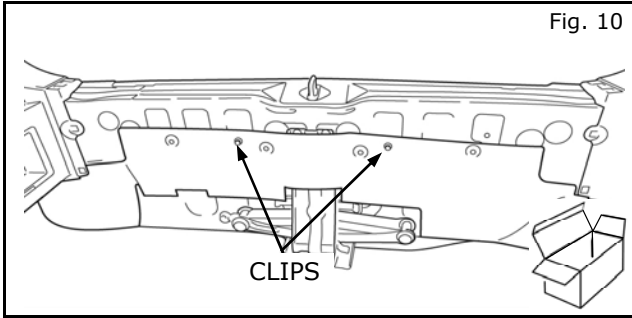


13) Remove luggage rear plate.
a) Remove the seven (7) push clips. Place the reusable clips in a safe place.
b) Remove latch cover. Place the latch cover in a safe place.

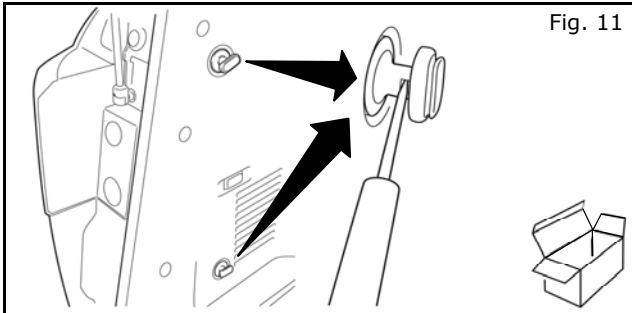


c) Pull up on the luggage rear plate.

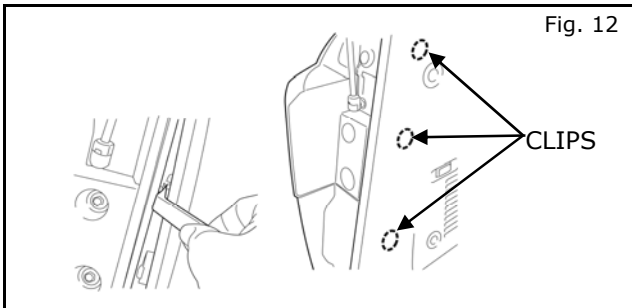
INSTALLATION PROCEDURE:



- 14) Remove the two (2) rear trim clips holding the cloth cover. Place the reusable clips in a safe place.



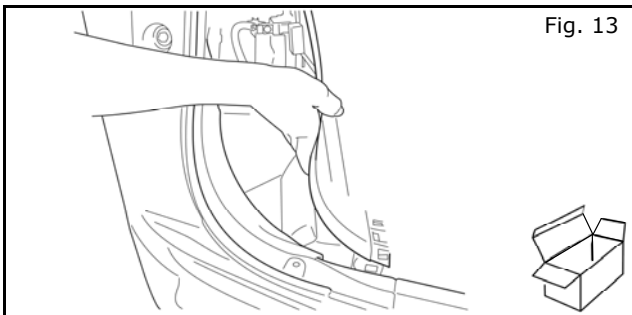
- 15) Use a small screw driver to press the release on the driver side cargo net hooks. Place the cargo net hooks in safe place.



- 16) Use a nylon tool to slightly lift the trim panel.

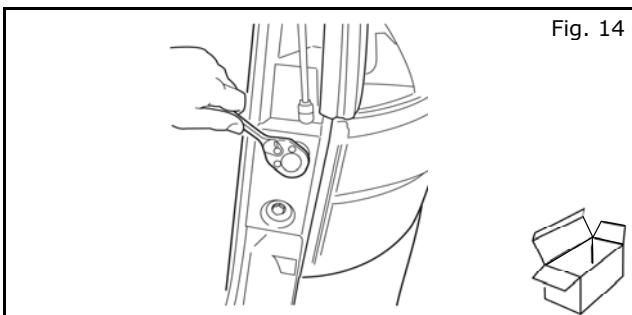
CAUTION

- It is important that you position your nylon tool under clips on the body panel as shown. This will avoid damage to the clip body panel.



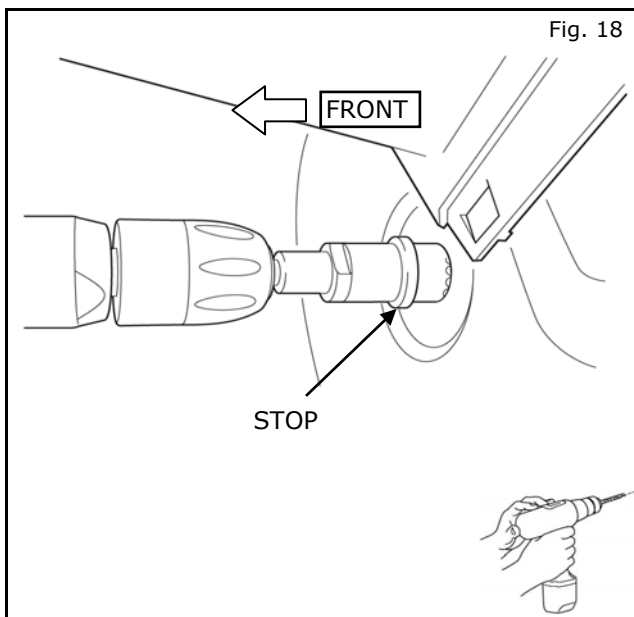
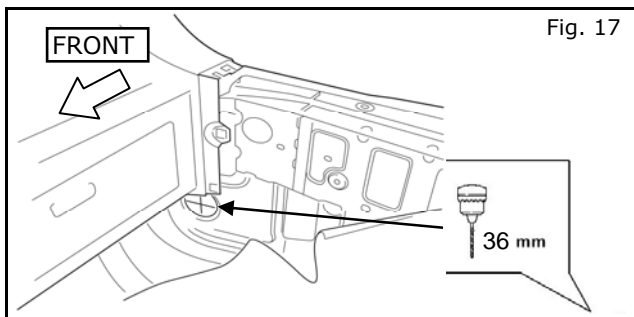
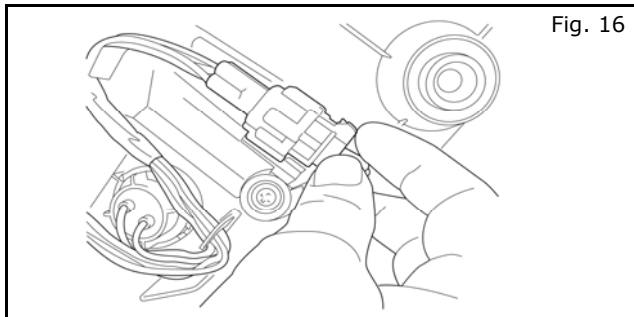
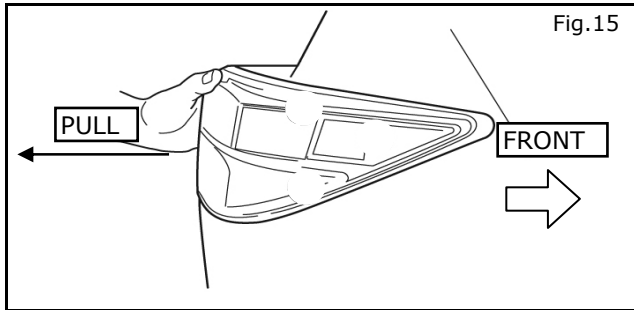
- 17) Carefully move panel away from the body to prevent creasing of the panel. Place the reusable clips in a safe place.

[Nissan clip part number is: 15-53 10611]



- 18) Use a 10mm socket and ratchet to remove the two (2) retaining bolts from the driver and passenger side combi lamp assemblies. Place the bolts in a safe place.

INSTALLATION PROCEDURE:



- 19) Remove driver and passenger side combi lamp assemblies while wiggling and pulling straight back.

CAUTION

- Do not pry or pull outward on the combi lamp assembly.

- 20) Disconnect the 4-pin combi lamp connector.

- 21) Drill a 36mm hole.
- a) Locate the recessed area on the passenger side of the vehicle.
 - b) Mark the center and center punch the location.
 - c) Place a stop 10mm from the end of the saw end of the hole saw.

- d) Drill the hole using a 36mm hole saw.

WARNING

- The hole size and proper dressing of the hole is critical to prevent exhaust or water intrusion into the interior of the vehicle.

- e) Use a file to debur the edge of the hole. Apply Nissan Wax Sealer P/N 999MP 9G001P (or equivalent) to the edge of the hole.

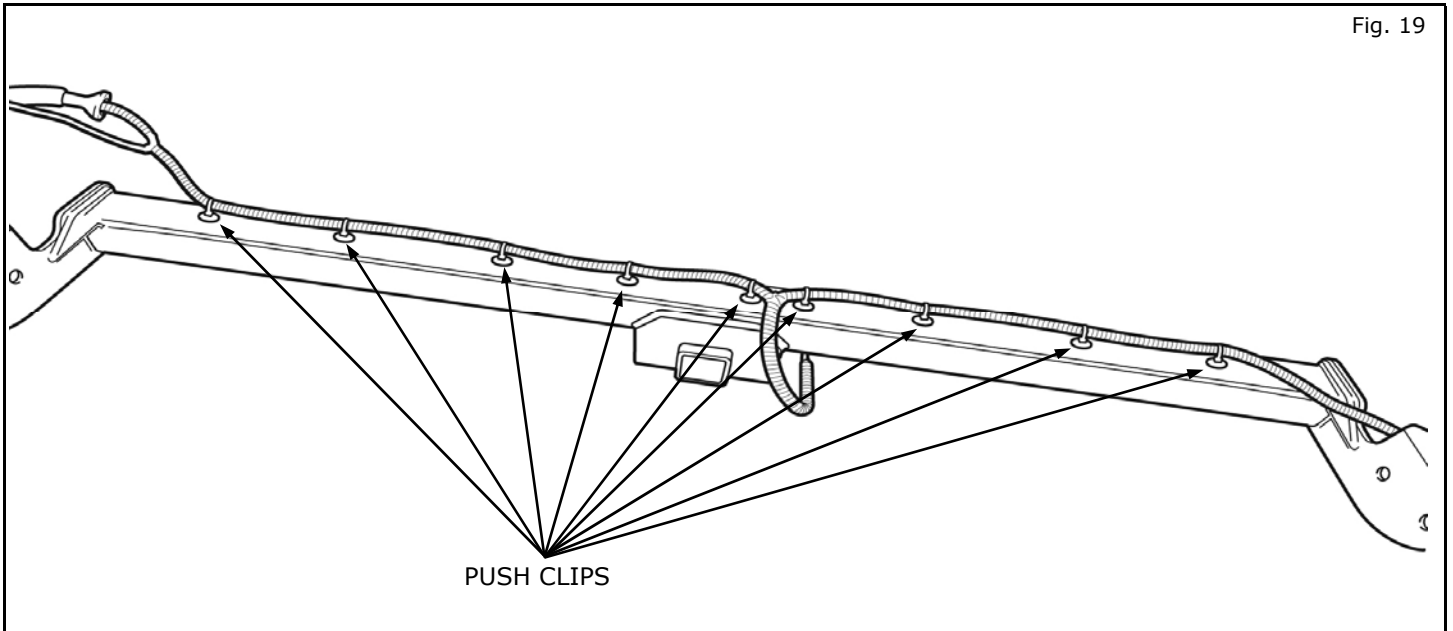
CAUTION

- The proper Nissan anti-corrosion spray must be used to prevent the area around the hole from rusting and/or corroding.

- f) Clean the debris by vacuuming and using a damp cloth.

INSTALLATION PROCEDURE:

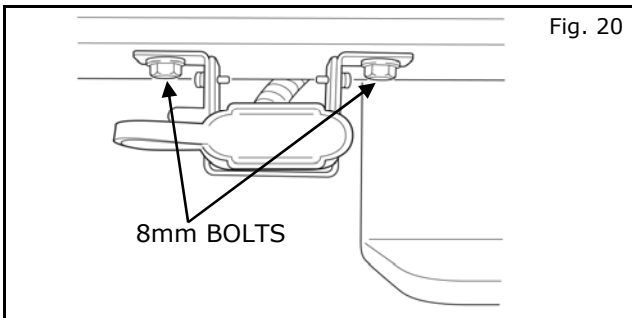
- 22) a) Attach the exterior wire harness to the hitch member using nine (9) push clips.



- b) Install the tow hitch to the vehicle using the tow hitch instructions (P/N 999T5 NW010II).

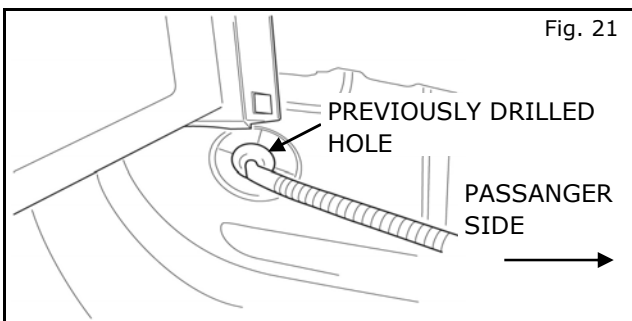
⚠ CAUTION

- Be careful not to damage any of the wire harness connectors.



- 23) After the bumper fascia has been installed, attach the flat 4-pin connector on the tow hitch using two (2) M5 bolts.

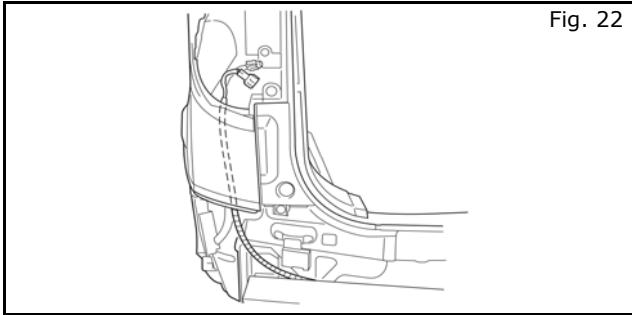
Torque to 3.9 Nm (0.39 Kg-m, 35 in-lb)



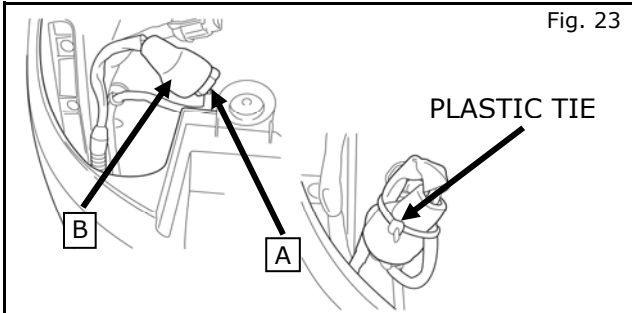
- 24) Route the exterior harness 4-pin connectors through the previously drilled hole and install the grommet into the vehicle with the wire harness angled towards the center of the vehicle.

Note: Pass the grommet all the way through the hole and then seat the grommet. Make sure the grommet is completely sealed.

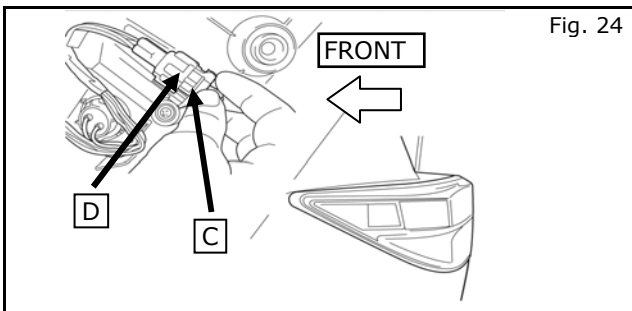
INSTALLATION PROCEDURE:



- 25) Route the driver side 4-pin connectors to the driver side combi lamp location as shown.
- Remove the shipping tape and uncoil the wire harness.
 - Route the wire in the area between the outer body and inner shell.



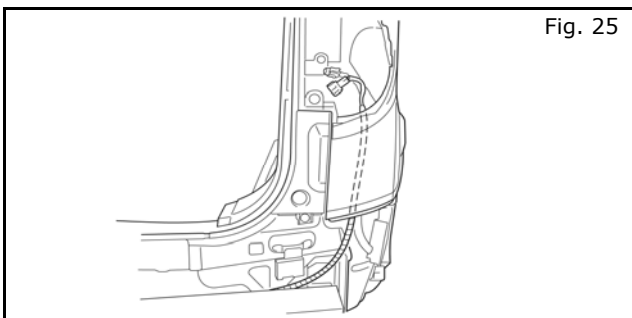
- 26) Connect the vehicle and tow hitch wire harness connectors.
- Connect the vehicle 4-pin connector (A) to the tow hitch wire harness connector (B)
 - Secure the vehicle wire harness connector (A) to the tow hitch wire connector (B) using a plastic tie.



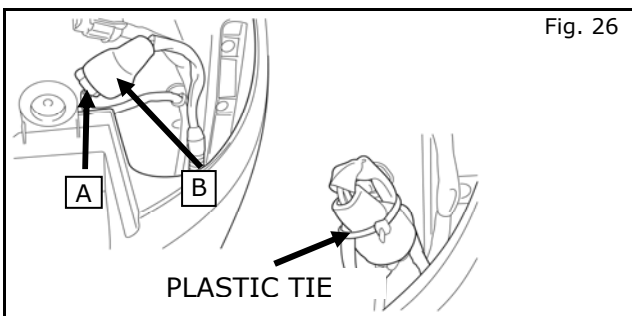
- 27) Install the combi lamp assembly on the vehicle.
- Connector the tow hitch wire harness 4-pin connector (C) to the combi lamp connector (D).
 - Install the combi lamp assembly on the vehicle using the two (2) original bolts.

CAUTION

- Do not over tighten the bolts.

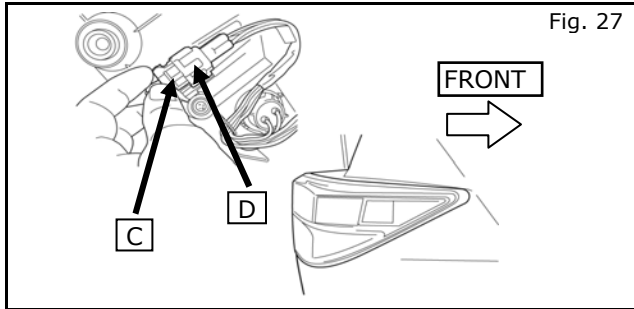


- 28) Route the passenger side 4-pin connectors to the passenger side combi lamp location as shown.
- Remove the shipping tape and uncoil the wire harness.
 - Route the wire in the area between the outer body and inner shell.



- 39) Connect the vehicle and tow hitch wire harness connectors.
- Connect the vehicle 4-pin connector (A) to the tow hitch wire harness connector (B).
 - Secure the vehicle wire harness connector (A) to the tow hitch wire connector (B) using a plastic tie.

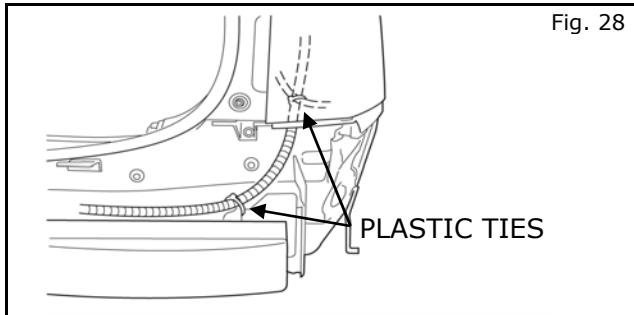
INSTALLATION PROCEDURE:



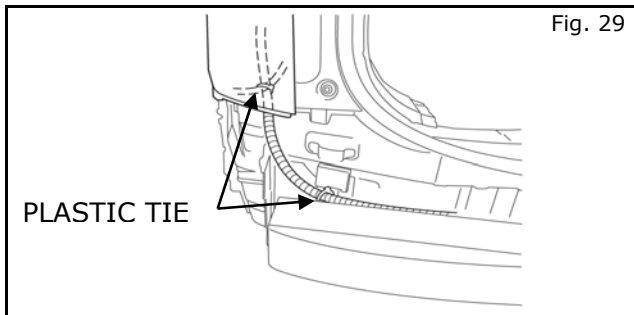
- 30) Install the combi lamp assembly on the vehicle.
 - a) Connect the tow hitch wire harness 4-pin connector (C) to the combi lamp connector (D).
 - b) Install the combi lamp assembly on the vehicle using the two (2) original bolts.

CAUTION

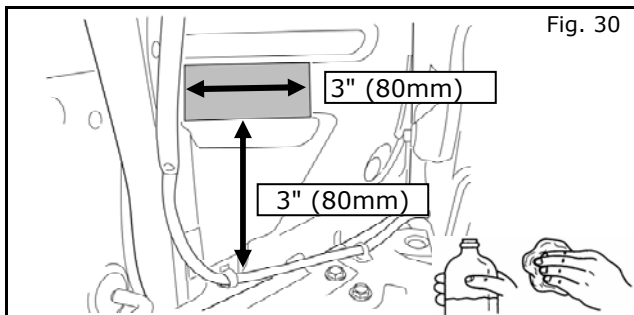
- Do not over tighten the bolts.



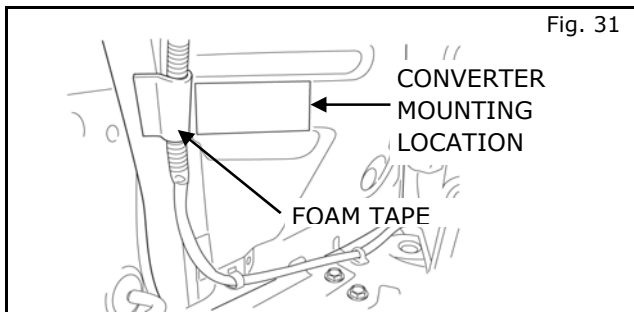
- 31) Secure the passenger side wire harness with two (2) plastic ties.



- 32) Secure the driver side wire harness with two (2) plastic ties.

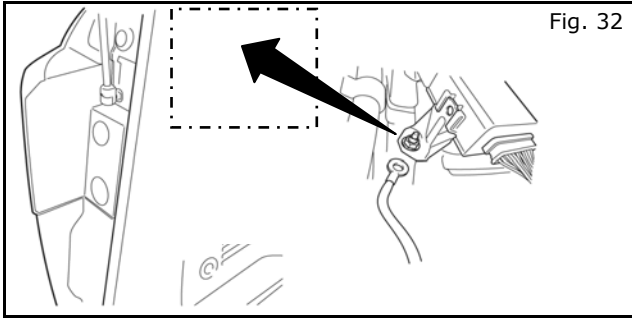


- 33) Clean the surface of the inside driver side rear wheel well (shaded area) with $\geq 90\%$ alcohol.



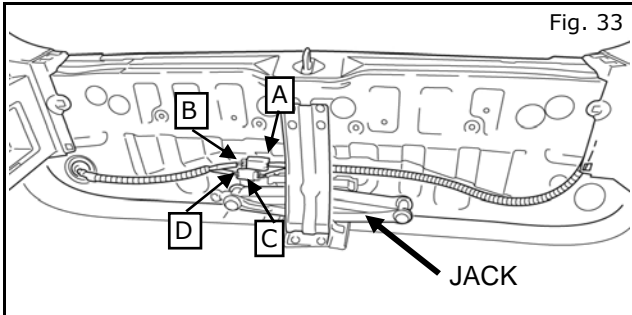
- 34) Wrap foam tape around the vehicle wire harness.

INSTALLATION PROCEDURE:

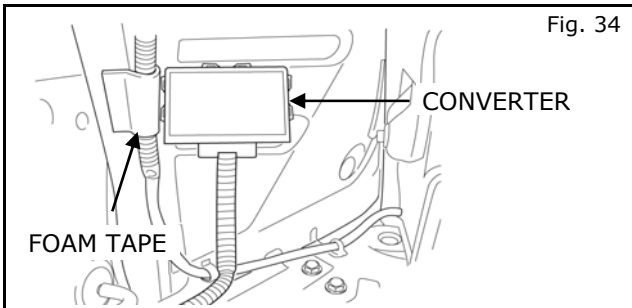


- 35) Route the ground wire of the interior tow hitch wire harness to the mounting stud as shown.
- Remove the nut using a 10mm deep socket, 3" extension and ratchet.
 - Secure the ground wire eyelet to the stud using the previously removed nut. Use a 10mm deep socket, 3" extension and ratchet.

Torque to 6 Nm (0.61 Kg-m, 53 in-lb)



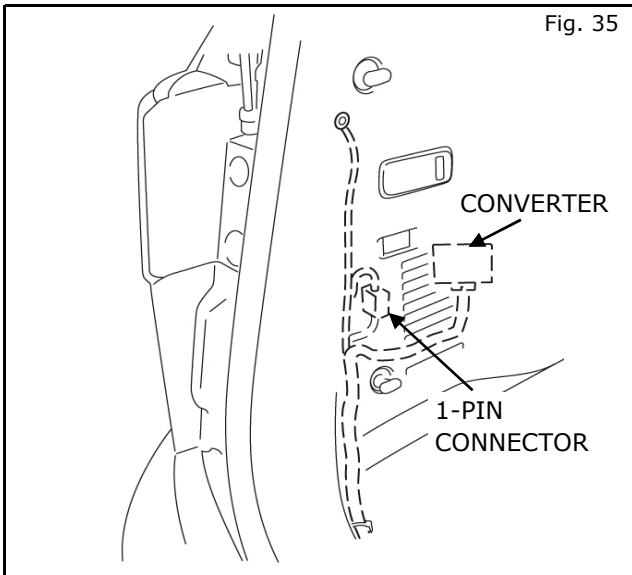
- 36) Route the interior wire harness end with the two (2) 4-pin connectors from the driver side to the passenger side, over the jack area and behind the rear body brace.
- Connect the interior 4-pin connector (A) to the exterior wire harness connector (B).
 - Connect the interior 4-pin connector (C) to the exterior wire harness connector (D).



- 37) Mount the converter.
- Connect the interior wire harness 10-pin connector to the converter.
 - Remove the tape protector.
 - Place the converter on the mounting surface as shown and press firmly into place.

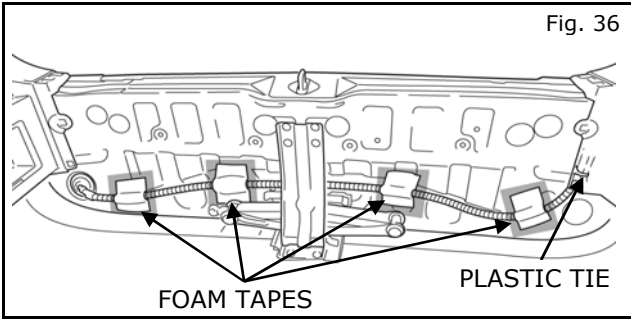
CAUTION

- Do not use excessive force or damage may occur.

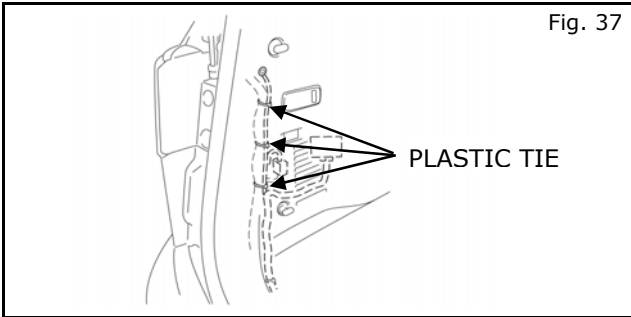


- 38) Connect the 1-pin interior wire harness connector to the vehicle 1-pin connector.

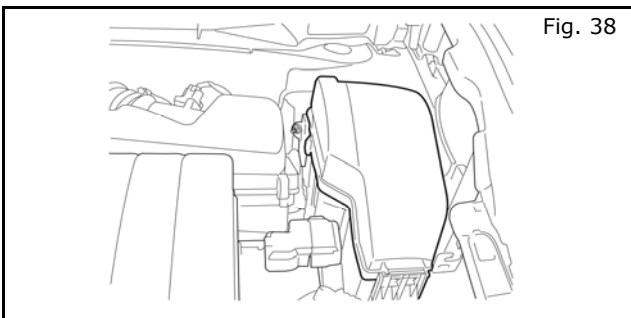
INSTALLATION PROCEDURE:



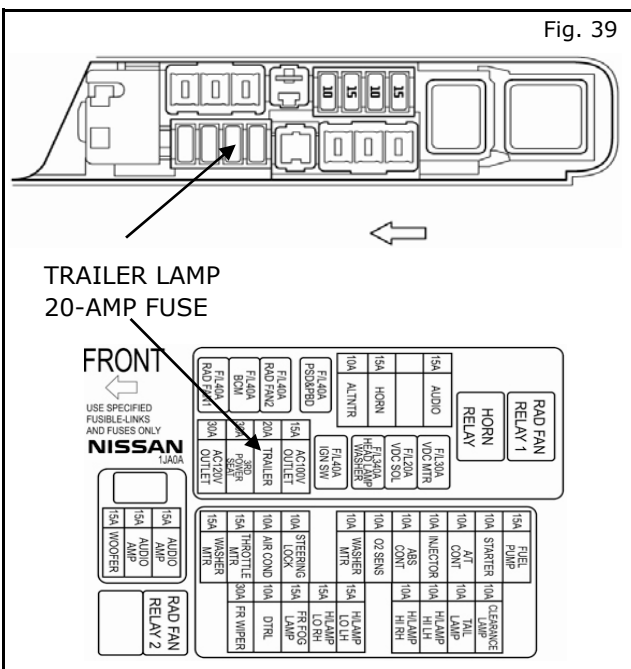
- 39) Secure the wire harnesses.
 - a) Clean the area where the foam tapes are to be applied w/90% alcohol.
 - b) Secure the exterior and interior wire harness using four (4) foam tapes.
 - c) Secure the interior wire harness to the vehicle wire harness using one plastic tie.



- 40) Secure the interior wire harness to the vehicle wire harness using three (3) plastic ties.



- 41) Remove the fuse cover.



- 42) Insert 20-amp fuse in location as shown.

INSTALLATION CHECK:

- Check all **torque** values. Step 25, Figure 20; Step 35, Figure 32
- Verify all wiring is secure and not exposed.
- Trim all excess plastic ties flush.

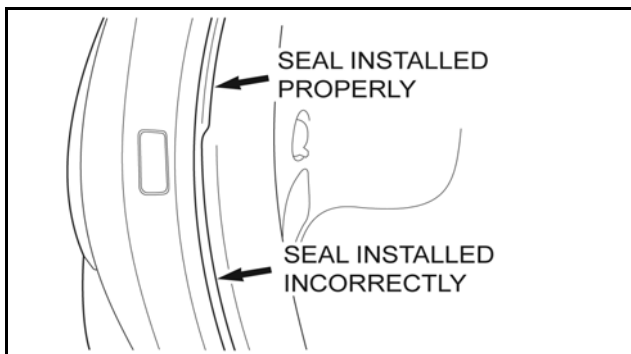
RE-INSTALLATION OF REMOVED PARTS:

Re-install all removed vehicle parts. Refer to the vehicle service manual for more details.

CAUTION

• Use caution when re-installing interior components to avoid damage, scratches, or breaking of mounting clips. Refer to the vehicle service manual for more information.

- 1) Install fuse cover.
- 2) Put the previously removed clips from the driver side rear trim panel in the clip retainers, press the driver side rear trim panel back in place.
- 3) Install the cargo net hooks.
- 4) Install the rear cloth trim using the two (2) clips.
- 5) Install the luggage rear plate.
- 6) Install the package tray.
- 7) Install the storage bin lower section.
- 8) Fold both storage covers back to original position.
- 9) Return both rear seat backs to the upright position.
- 10) Install the rear bumper fascia.
- 11) Install the rear hatch weather seal.



ACCESSORY CHECK:

- Connect the negative (-) battery terminal and tighten the nut to appropriate torque.
- Set ignition switch to "**ON**" position and the engine stopped.
- Confirm tow hitch wire harness converter functions:

Operational Verification:

The following checks are to be performed with the ignition switch in "**ON**" position and the engine stopped.

Check	Condition
Turn on headlamps.	Marker and tail lights on both the vehicle are lit.
Turn on left turn signal.	Left turn lights on both the vehicle and tester are lit and flashing.
Turn on right turn signal.	Right turn lights on both the vehicle and tester are lit and flashing.
Apply foot brake.	Stop lights on both the vehicle and tester are lit.
Turn on left turn signal and apply foot brake.	Left turn lights on the vehicle and left turn light on the test are flashing, the right stop light on the vehicle and tester are lit.
Turn on right turn signal and apply foot brake.	Right turn lights on the vehicle and right turn light on the test are flashing, the left stop light on the vehicle and tester are lit.
Turn on hazard lights switch.	All turn signal lights are flashing on both the vehicle and tester.
With hazard lights switch on, apply the foot brake.	Both stop lights on the vehicle are lit, both turn lights on the vehicle are flashing and both turn/stop lights on the tester are flashing.
Turn off the hazard light switch, apply the foot brake.	Both stop lights on the vehicle and the turn/stop lights on the tester are lit.
Turn on headlamps.	Marker and tail lights on both the tester and vehicle are lit.
Apply foot brake.	Stop lights on both the vehicle and tester are lit.
Turn on left turn signal.	Left turn lights on both the vehicle and tester are not lit.

ACCESSORY CHECK:

Operational Verification: (Cont.)

The following checks are to be performed with the ignition switch in "**OFF**" position and the engine stopped.

Check	Condition
Turn on right turn signal.	Right turn lights on both the vehicle and tester are not lit.
Turn on left turn signal and apply foot brake.	Both stop lights are lit and not flashing on both the vehicle and tester.
Turn on right turn signal and apply foot brake.	Both stop lights are lit and not flashing on both the vehicle and tester.
With hazard lights switch on, apply the foot brake.	Both stop lights on the vehicle are lit. Both turn lights on the vehicle are flashing and both turn/stop lights on the tester are flashing.
Turn off the hazard light switch, apply foot brake.	Both stop lights on the vehicle are lit. Both turn/stop lights on the tester are lit, but not flashing.

DIAGNOSTIC FLOW CHART

Perform the following Sequence procedures if there is any lamp malfunction.

⚠ CAUTION

- Check that the headlamp switch is OFF before removing/replacing the bulbs.

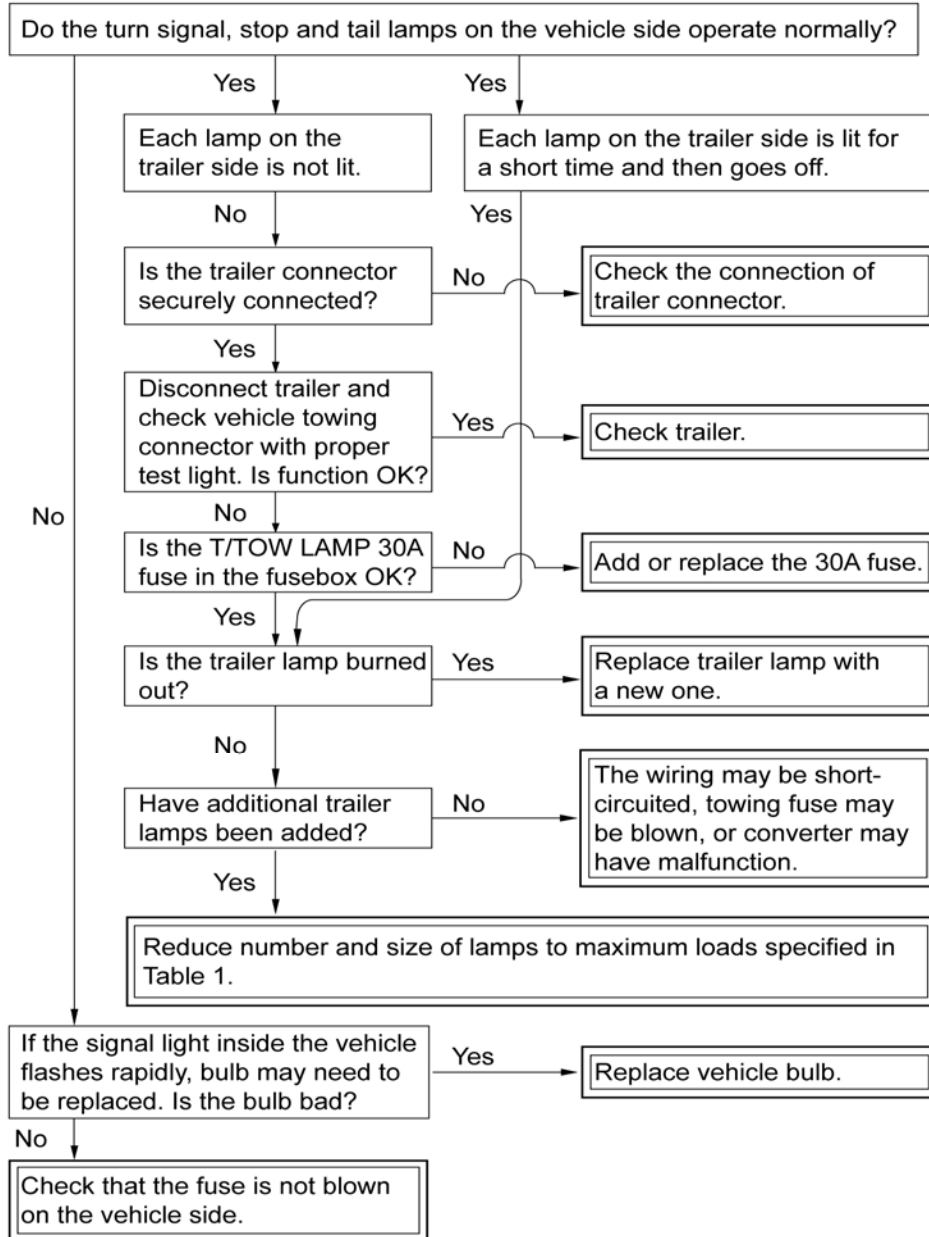


Table 1

Rated Current Capacity	TAIL	MAX 7.8A
	STOP/TURN (RIGHT)	MAX 4.5A
	STOP/TURN (LEFT)	MAX 4.5A