



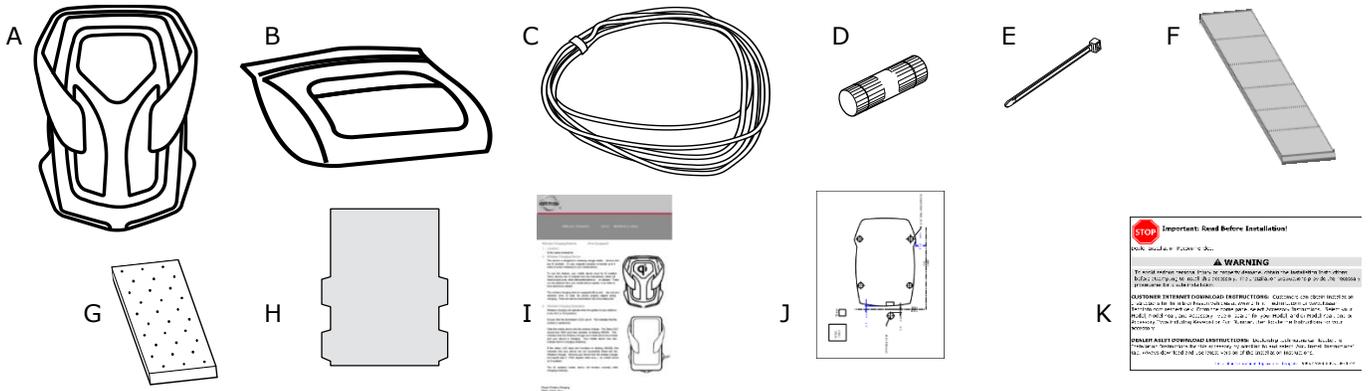
INFINITI

GENUINE PARTS

INSTALLATION INSTRUCTIONS

DESCRIPTION:	Wireless Charging Kit
APPLICATION:	QX30
PART NUMBER(S) REQUIRED FOR INSTALLATION:	999F7 V4100 999Q9-AY001 (Accessory Service Connector) - Not Included in kit.
KIT CONTENTS:	

Item	Qty.	Part Description	Service Part Number
A	1	Wireless Charging Module	999F7 V4006
B	1	Installation Parts Kit	999F7 V4010
C	1	Wire Harness (w/ in built fuse)	999F7 V4002
D	2	Posi-Taps	999M1 VT000
E	8	Tie Wraps	
F	1	Double Sided Tape	
G	11	Foam Tape	
H	W	Felt Carpet Mat	999F7 V4101
I	1	Wireless Charging User Guide	999F7 V3010
J	1	Drill Template	
K	1	Installation Instruction Replacement Template	999V2 AW000



STOP Important: Read Before Installation!

WARNING

To avoid personal injury or property damage, always use caution when working with electrical systems. Do not touch any electrical components or wires. Do not use any tools or equipment that could cause damage to the vehicle's electrical system.

DISCONNECT BATTERY TERMINALS BEFORE WORKING ON ELECTRICAL SYSTEMS. Disconnect the battery terminals before working on any electrical system. Disconnect the negative terminal first, then the positive terminal.

DISCONNECT BATTERY TERMINALS BEFORE WORKING ON AIR BAGS. Disconnect the battery terminals before working on any air bag system. Disconnect the negative terminal first, then the positive terminal.

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999Q9 AY000 (ACCESSORY SERVICE CONNECTOR) - SERVICE PART

Item	Qty.	Part Description	Service Part Number
AA	1	Accessory Service Connector (NOT INCLUDED IN KIT)	999Q9-AY001



Note: 1 or 2 ASC may already be installed in the vehicle.

TOOLS REQUIRED:

- Right Angle Drill (Battery Powered)
- 7/16" step drill bit
- 1/16" Drill Bit
- Alcohol Wipes
- 12mm Wrench
- Trim Removal Tool
- Round File
- 12mm socket with 4" extender

Vehicle Preparation:

⚠ CAUTION

• Always confirm the ignition is in the "OFF" position before changing the switch condition.

- 1) Apply parking brake
- 2) Confirm vehicle is not in the default shipping state or "Inventory position" as shown below. Failure to confirm vehicle has been removed from this state will result in loss of normal vehicle operation.
- 3) Locate Extended Storage Switch in cabin fuse block. Confirm it is in the "Customer" position. See below for reference.

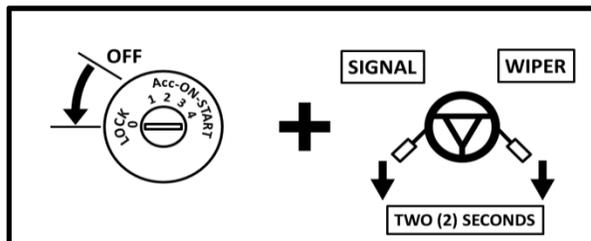
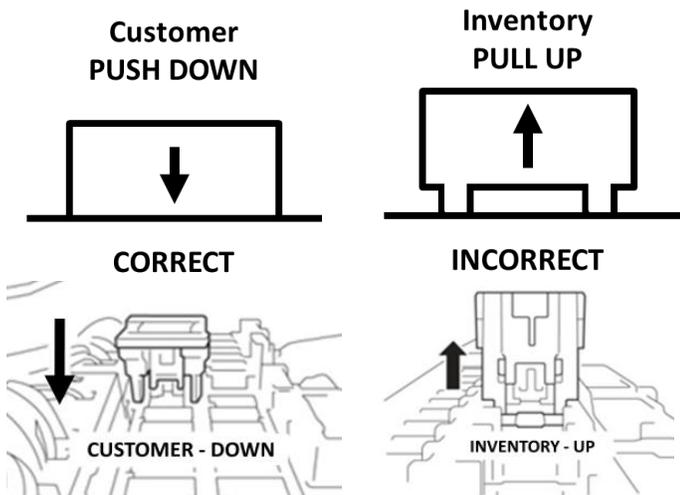
a) To remove transit mode (Fuse Block):

1. Remove fuse cover lid.
2. Push down shorting pin.
3. Ign On 2 times without starting the vehicle.

b) To remove transit mode (BCM):

1. Confirm ignition switch is in "OFF" position.
2. Simultaneously push the signal and wiper switch fully down for two (2) seconds.

NOTE: While in BCM Transit Mode, turn signal indicators will remain illuminated for one minute.



c) To return to transit mode for storage:

1. Ign Off.
2. Remove fuse cover lid.
3. Pull up shorting pin.
4. Assemble fuse cover lid.
5. Ign On 2 times without turn the vehicle on.
6. Confirm transit mode condition on meter

NOTE: Typical vehicle condition shown above. Switch is easily identifiable by the permanent, push-pull fuse holder. Actual position on the fuse block may vary, vehicle to vehicle.

Condition	Switch Position	Note
Vehicle is delivered to the dealer	Inventory Condition	
Technician performs PDI	Customer Delivery	Return to Inventory position after PDI.
Customer test drives the vehicle	Customer Delivery	Return to Inventory position after test drive.
Vehicle is being stored at the dealer	Inventory Condition	
Vehicle is delivered to customer	Customer Delivery	

NOTE: The Extended Storage Switch is only an aid to improve battery life during vehicle storage at the dealer. If the Extended Storage Switch fuse ever needs service after vehicle delivery, discard the Extended Storage Switch and install the correct fuse in its place.

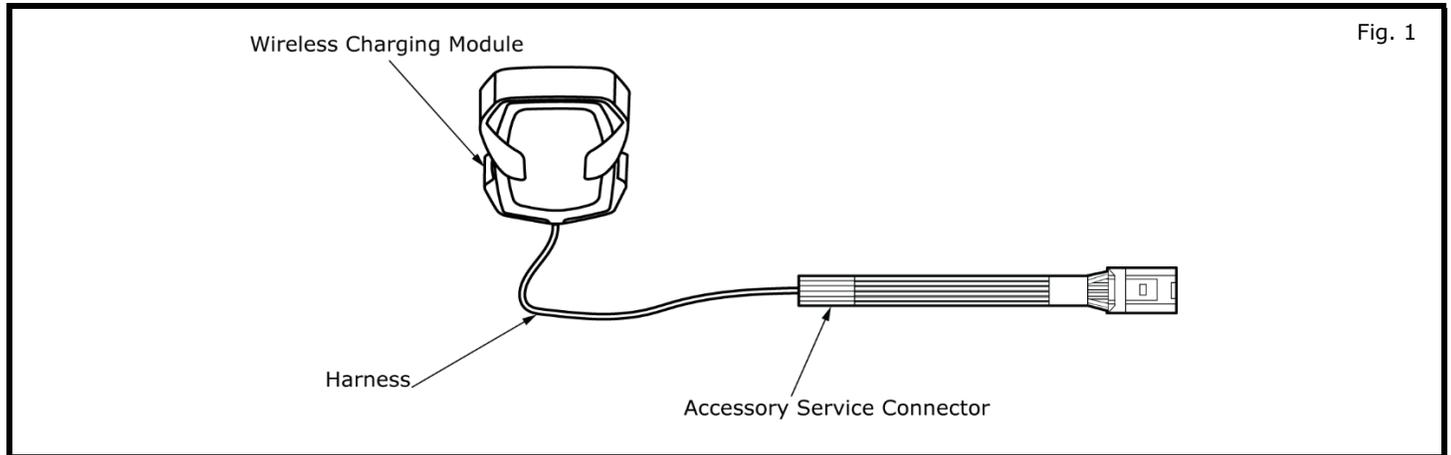
- 4) Turn ignition switch to "ON" position
- 5) Record the customer radio presets and other presets as required.

Preset	1	2	3	4	5	6		

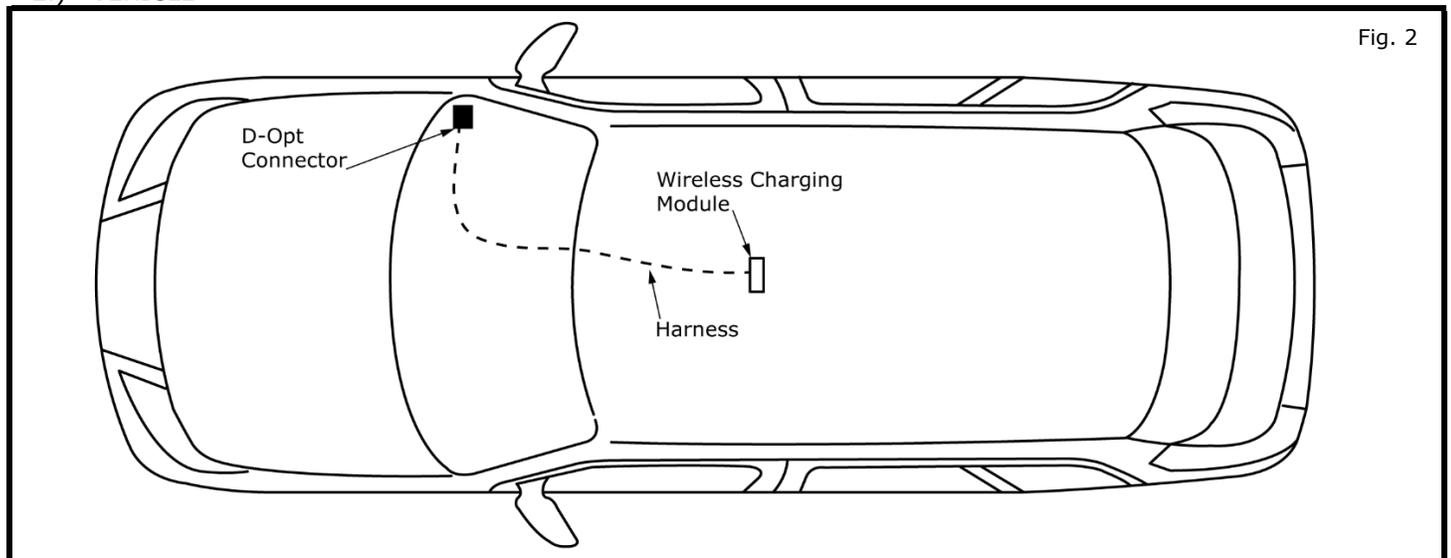
- 6) Put shift lever in "P" position for A/T and CVT or "1st" for M/T
- 7) Turn ignition switch to "OFF" position
- 8) Use seat and floor protection.

8. INSTALLATION OVERVIEW:

1.) SYSTEM



2.) VEHICLE



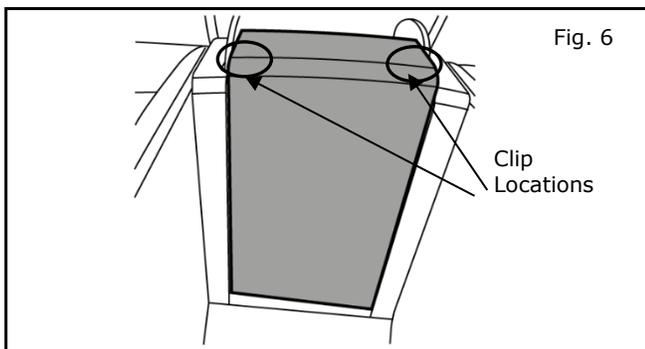
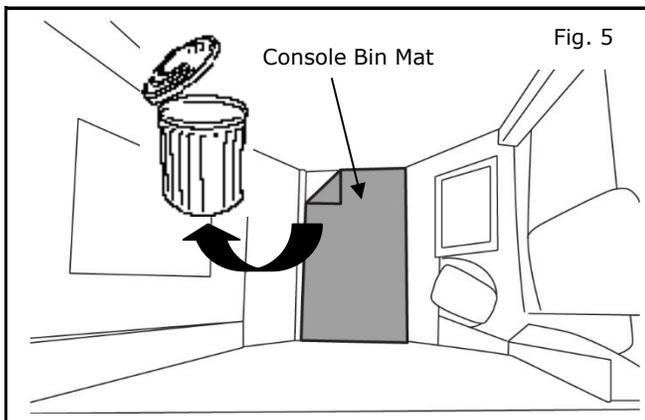
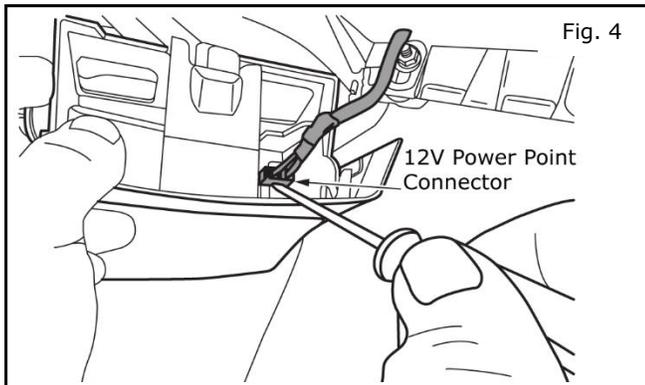
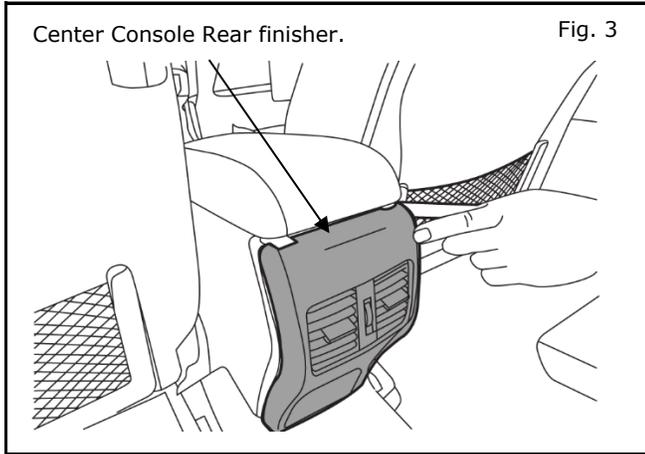
⚠ CAUTION

- Take care not to scratch or damage any component during the removal or re-installation process.
- Always remove vehicle parts in the sequence they are shown, improper procedure can damage parts.
- Store removed parts in a safe and protected manner.
- Failure to install Wireless Charging module in specified location may result in improper vehicle operation
- Locate the Wireless Charging module as shown in this instruction. Failure to do so may impact the operation of the iKey system, and prevent the vehicle from starting.

9. ORDER OF INSTALLATION:

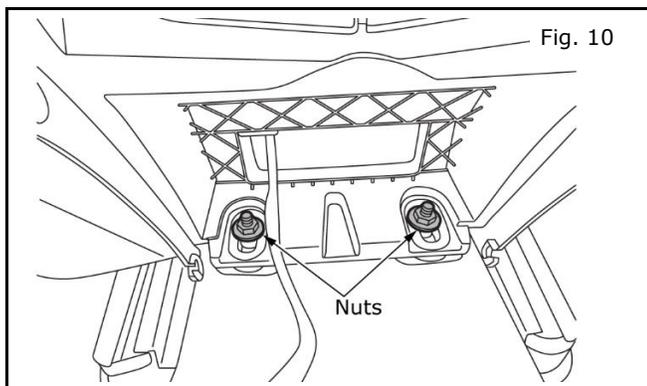
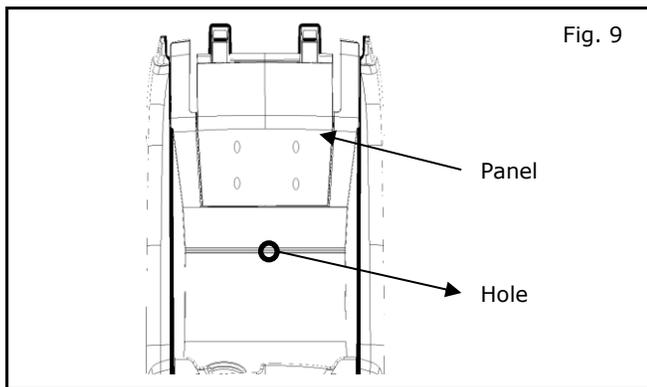
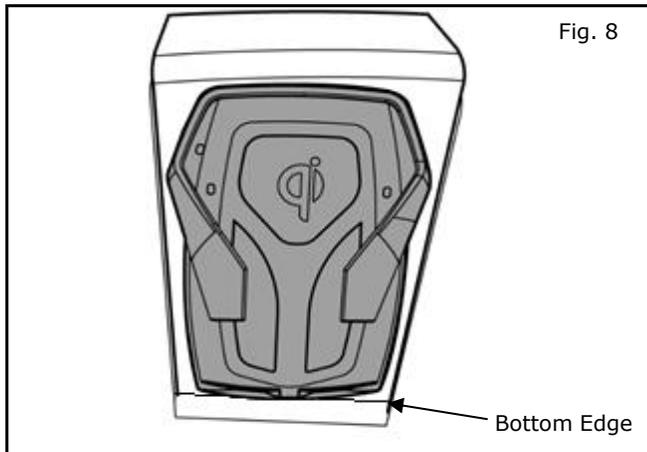
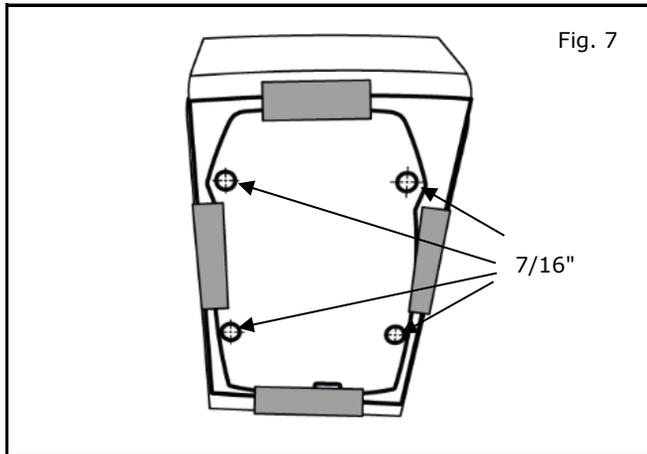
- 1.) Gently remove center console rear finisher.
- 2.) Gently remove passenger kick panels.
- 3.) Drill holes in bin for module harness and module installation.
- 4.) Route and install harness.
- 5.) Gently remove the necessary interior panels and trim.
- 6.) Install module.
- 7.) Carefully replace center console rear finisher and kick panels.

10 INSTALLATION PROCEDURE:



- 1) Removal of Center Console Rear Finisher.
 - a) Using trim tool, remove rear finisher from center console.
 - b) Disconnect 12V power point connector and set finisher aside using small, flat blade screwdriver to pry up connector.
- 2) Remove and discard existing console bin mat.
- 3) Remove panel at rear of center console bin using nylon trim tool. Pull up on panel to disengage 2 clips at top.

10 INSTALLATION PROCEDURE:



- 4) Drill holes in bin panel
 - a) Measure inch or cm block on template to confirm template printed at correct size.
 - b) Securely attach template labeled "Bin Panel" to panel.
 - c) Use center punch to locate hole centers
 - d) Secure panel to bench with clamps. Be careful not to mark panel.
 - e) Use 1/8" bit to drill pilot holes. Finish holes with 7/16" bit and clean with round file.

NOTE:

Ensure page scaling is set to "None" when printing templates.

- 5) Dry fit module to panel to confirm fit of holes.

The bottom of the module should be lined up with the bottom edge of the flat surface as shown in adjoining figure.

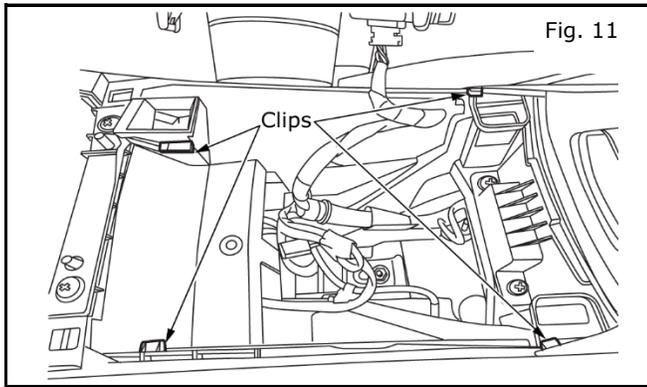
- 6) Replace panel in vehicle.

Use 1/8" bit to drill pilot hole in the location as shown.

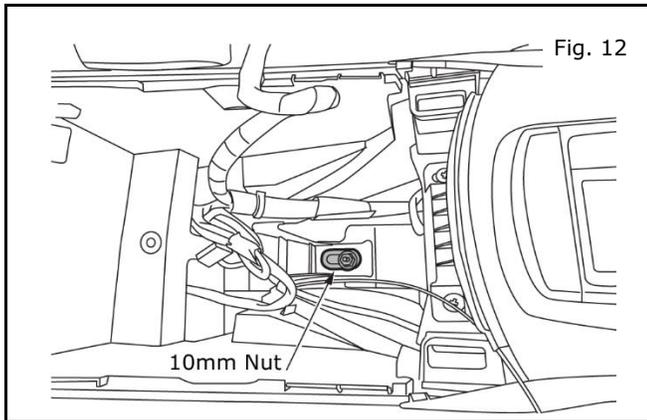
Use 7/16" step bit to finish the hole.

- 7) Remove two 10mm nuts from rear of console.

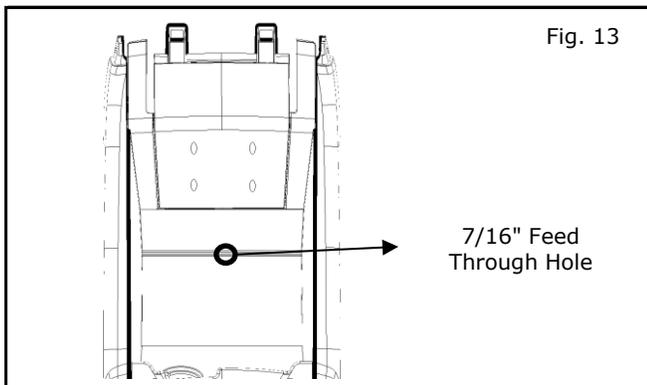
INSTALLATION PROCEDURE:



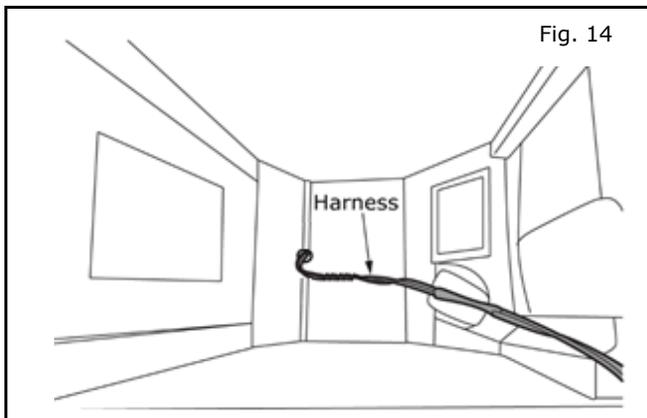
- 8) Starting from rear of vehicle, remove AT finisher at four clip points. Set finisher aside without disconnecting harnesses.



- 9) Remove 10mm nut as shown.



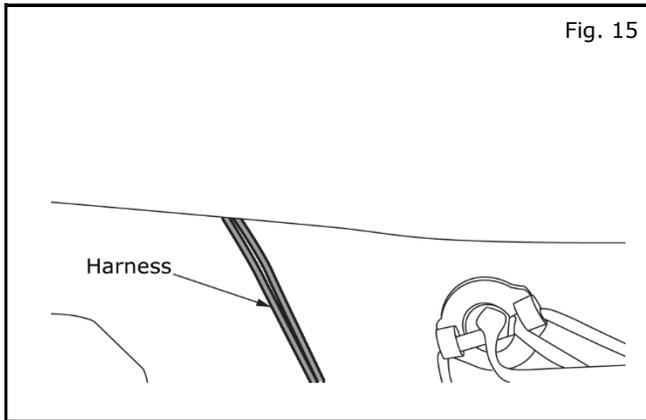
- 10) Drilling harness feed through hole.
- a) Attach supplied template to rear outside of bin (labeled "Bin Outside".)
 - b) Use center punch to locate center of holes to drill.
 - c) Using 7/16" drill bit, drill hole in bottom of bin 35 mm from the center of the hole to edge.
 - d) Clean flash from hole using round file.



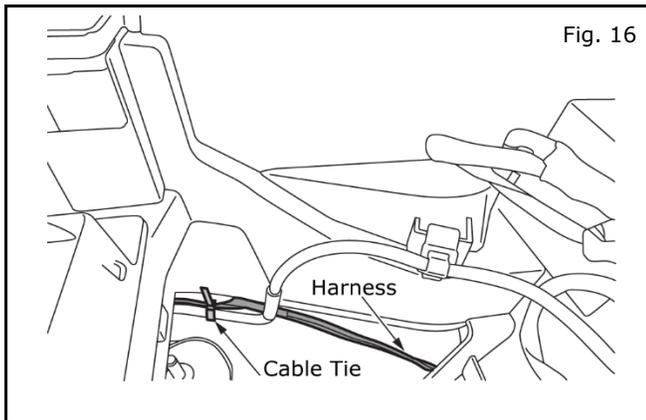
- 11) Route Harness from under console into bin as shown.

Note:
Leave sufficient length of harness in bin to connect module

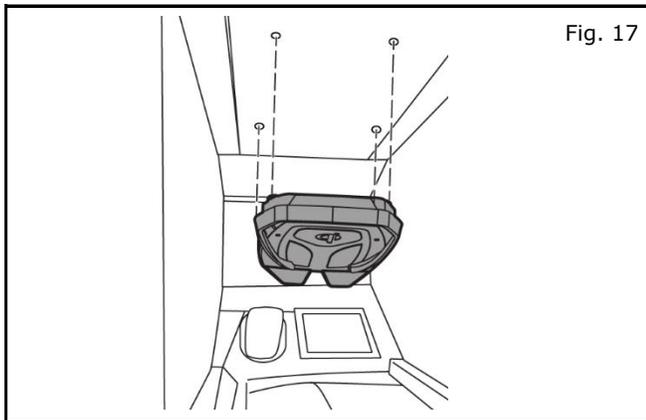
INSTALLATION PROCEDURE:



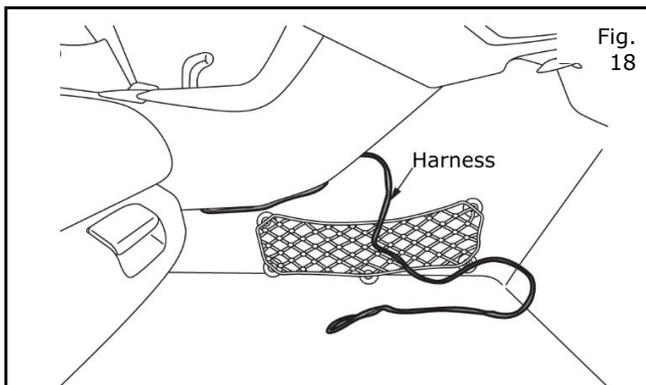
- 12) Route accessory harness across console and feed out of console to aid in further routing.



- 13) Cable tie to existing console harness in location shown (passenger side).

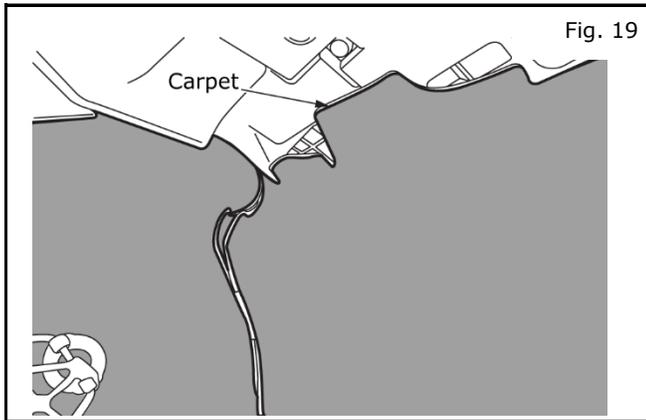


- 14) Module installation.
- a) Align four bosses on back of module with four previously drilled pilot holes. Do not yet mount the module.
 - b) Connect harness to module

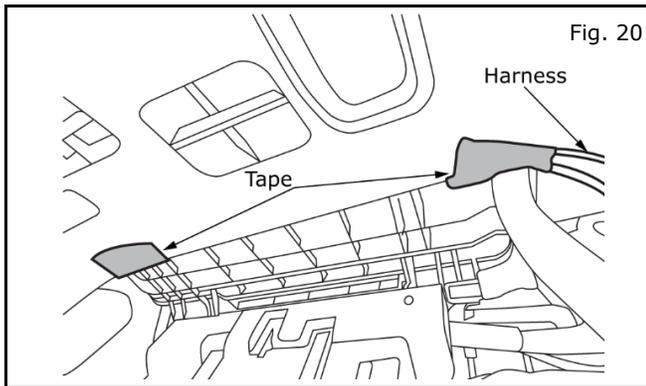


- 15) Wrap harness with four pieces of foam tape and tuck under side of console. Take care to not lift rear of console more than 1 inch.

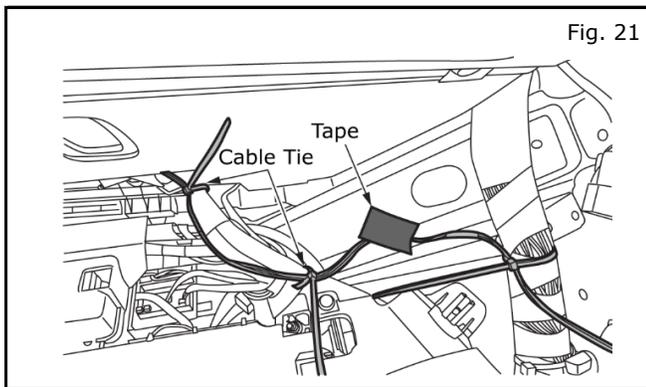
INSTALLATION PROCEDURE:



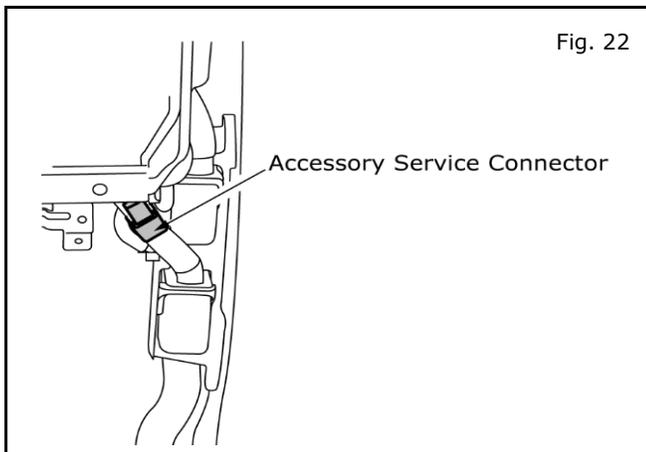
- 16) Pull carpet back from front bulkhead in passenger footwell.



- 17) Route harness above tray and tape to tray in locations shown.



- 18) Remove kick panel. Cable tie and tape as shown.



- 19) Locating passenger side D-Opt connector.
a) Locate passenger side D-Opt connector connector behind glovebox on right side of footwell. See Fig. 23.

NOTE:

- If there is already an accessory service connector in passenger side, read step 21. If not, proceed to step 22.
- If there is not an accessory service connector in passenger side, remove dummy plug in connector.

INSTALLATION PROCEDURE:

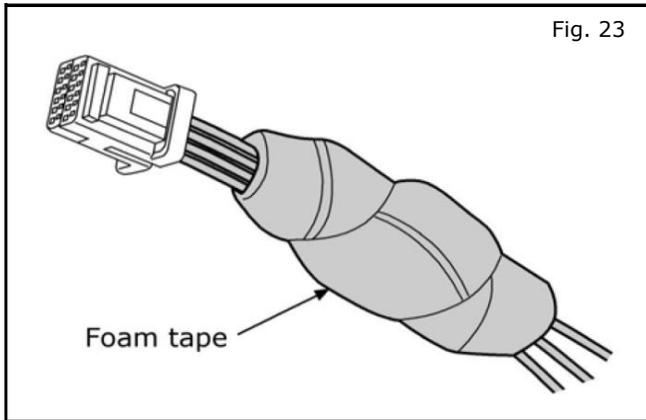


Fig. 23

- 20) Locating accessory service connector.
- If there is already an accessory service connector in passenger side, remove it before continuing.
 - Remove any foam tape present before adding any posi-taps. See Fig. 24.

999Q9 AY001		
Pin	Label	Color
1	IGN	WHITE
2	BAT	RED
3	TL_LMP	PURPLE
4	RM_LMP	YELLOW
5	BATSVR	PINK
6	FR_DR_SW_RH	DK GRN
7	FR_DR_SW_LH	LT GRN
8	THRU SIGNAL 1	GREY
9	RR_DR_RH	DK BLUE
10	RR_DR_LH	LT BLUE
11	ACC	ORANGE
12	GND	BLACK

Fig. 24

Pin location is referenced looking from the harness side of connector.

1	2	3	4	5	6
7	8	9	10	11	12

Accessory Connector Reference.

- Accessory service connector pin out is shown in Fig. 25.

NOTE:

- For direction on how to posi-tap, refer to Pages 10 through 13.
- For additional circuit information, refer to mech drawing at end of installation instructions.

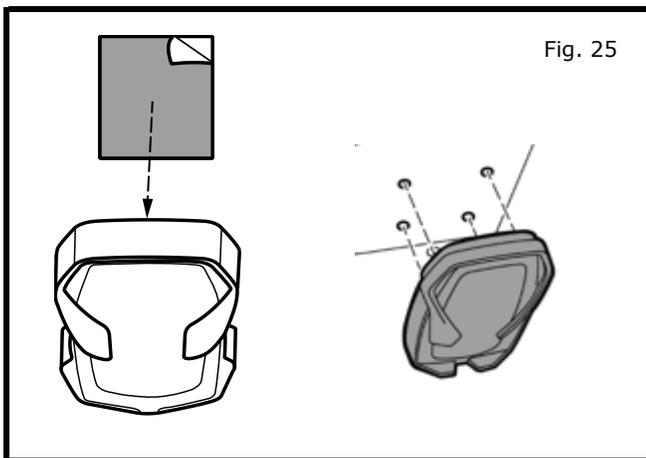


Fig. 25

- 21) After following steps 23-40, install module to bin as follows.
- Clean location for mounting module with alcohol wipe. Allow to dry for one minute.
 - Remove liner from tape on rear of module.
 - Align four bosses on back of module with four previously drilled pilot holes.
 - Press and hold module to bin to with 15lbs of pressure for 30 seconds.

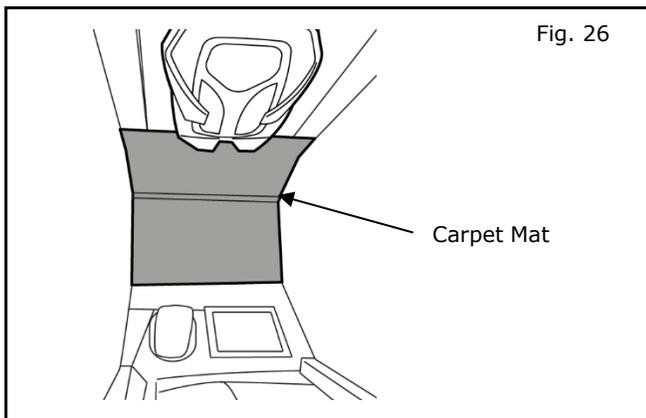
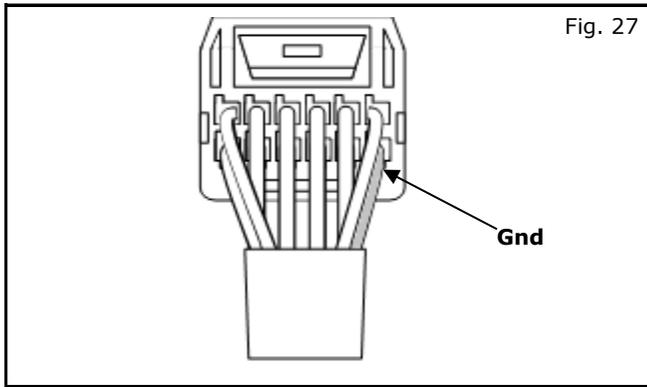


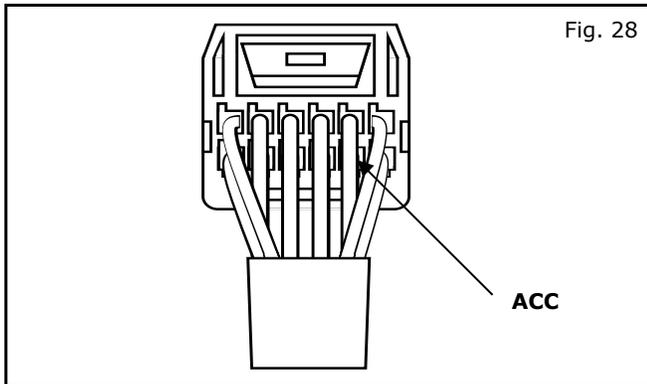
Fig. 26

- 22) Adhere carpet mat (Part number 999F7 V4101) to console bin and tuck under module as shown.

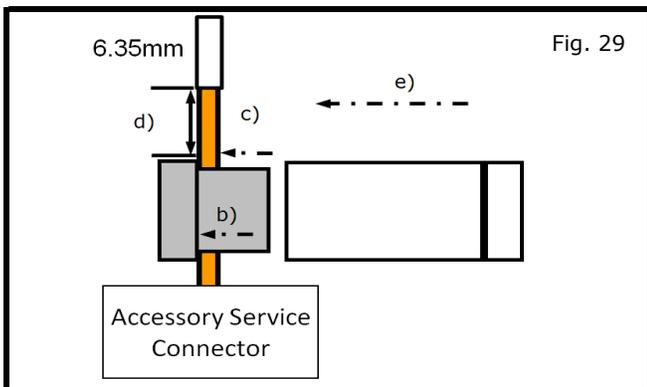
INSTALLATION PROCEDURE:



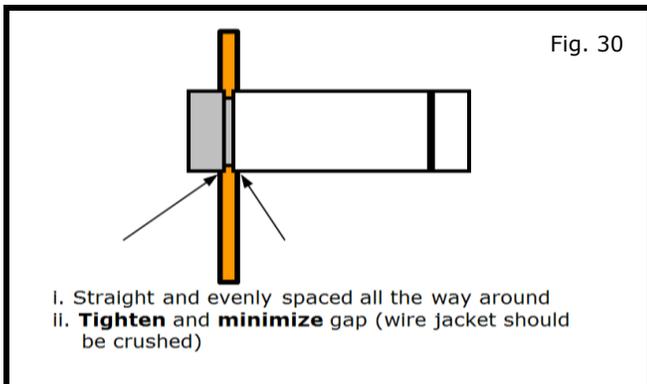
- 23) Posi-tap GND
 a) Tap **Black** accessory harness wire to **Black** accessory service connector pigtail wire.



- 24) Posi-tap ACC
 a) Tap **Red** accessory harness wire to **Orange** accessory service connector pigtail wire.

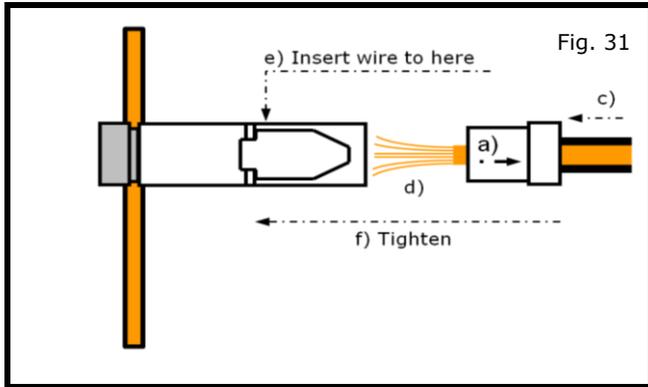


- 25) Posi-tapping an Accessory service wire (Fig. 28).
 a) Identify and confirm correct wire in the Accessory Service Connector to be tapped.
 b) Remove cap (slot side) from tap body.
 c) Slide cap around single accessory wire.
 d) Position cap $\geq 6.35\text{mm}$ (0.25in) away from the heat shrink end of Accessory Service Connector (measurement for first posi-tap installed on the circuit).
 e) Tighten the tap **TIGHT** with finger pressure.
 f) Tighten by another quarter turn.

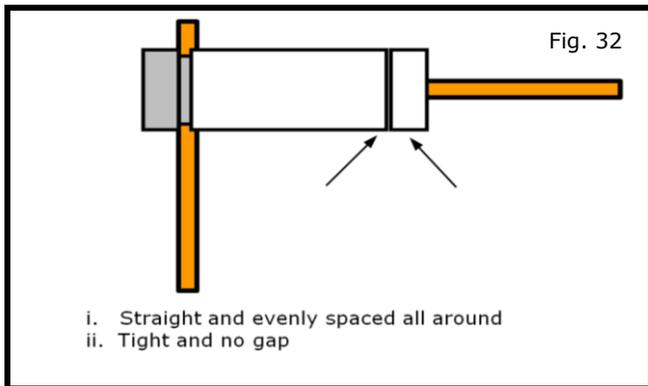


- 26) Inspecting the tap for correct installation (Fig. 29).
 a) Pull on the wire lightly to ensure connection.
 b) Inspect the tap to ensure correct installation.
 c) Test the signal to ensure that it is working properly.

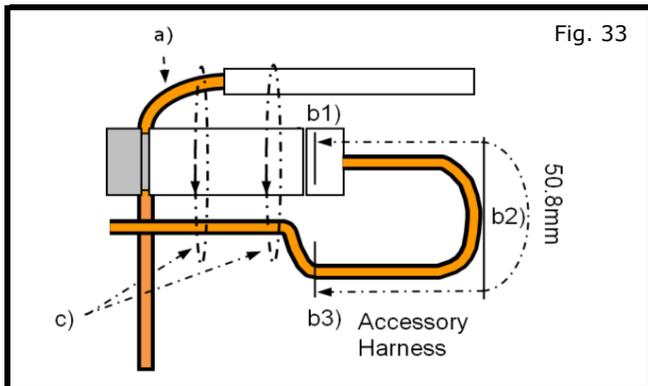
INSTALLATION PROCEDURE: POSI-TAP



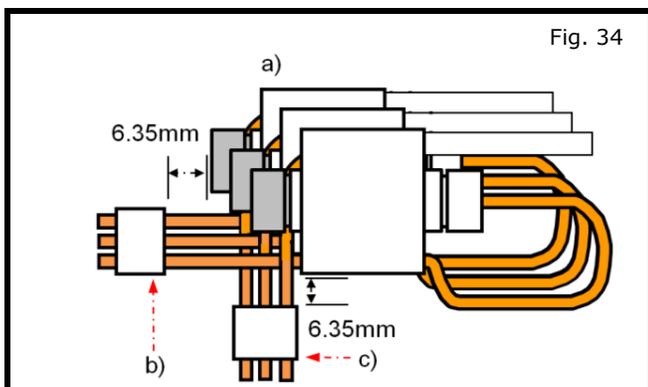
- 27) Tap accessory wire (Fig. 30).
- Remove tap (non-pierce) side from tap.
 - Remove the protective stub from the wire.
 - Insert wire through the non-pierce side opening.
 - Spread the individual strands into fan shape.
 - Insert wire into the tap body and ensure that it is all the way in.
 - Tighten the tap **TIGHT** with finger pressure.
 - Tighten by another quarter turn.



- 28) Confirm the tapped accessory wire.
- Pull on the wire lightly to ensure connection.
 - Inspect the tap to ensure correct installation as shown in Fig. 31.



- 29) Forming strain relief loop - required (Fig. 32).
- Gently bend end of pierced wire (where it exits cap) down towards body of posi-tap.
 - On tapped side wire; starting at point b1), measure 50mm to point b3). Make first bend of loop b2), half measured distance - 25mm, and up toward body of posi-tap, make second bend of loop b3).
 - Secure pierced wire on heat shrink side and tapped wire to body of tap with electrical tape (≥ 2 revolutions).



- 30) Securing multiple accessory taps (Fig. 33).
- Tapped accessories (wires already secured to tap bodies) are stacked in a stagger on top of each other as shown in Fig a).
 - Secure tapped wires on connector side of posi-taps to each other with electrical tape (≥ 2 revolutions) at a distance of ≥ 6.35 mm as shown in Fig b).
 - Pierced wires of posi-taps are secured to each other with electrical tape (≥ 2 revolutions) at a distance of ≥ 6.35 mm (0.25in) as shown in Fig c).

INSTALLATION PROCEDURE: POSI-TAP

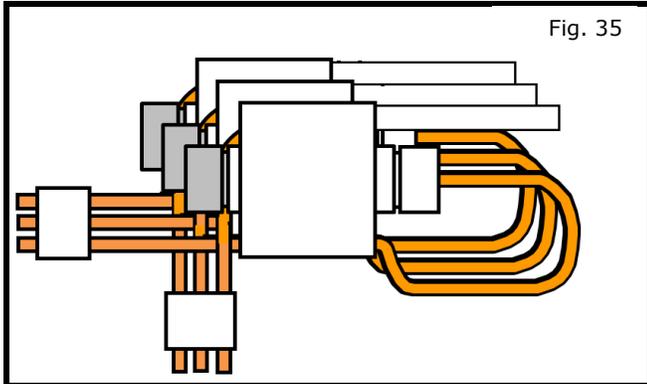


Fig. 35

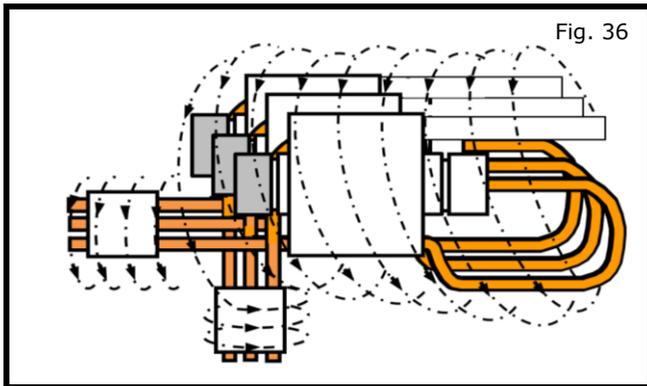


Fig. 36

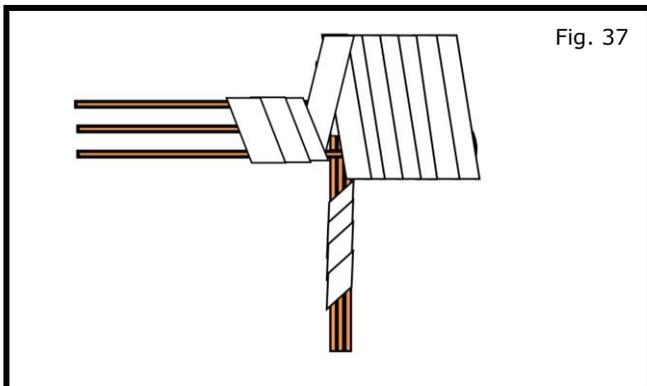


Fig. 37

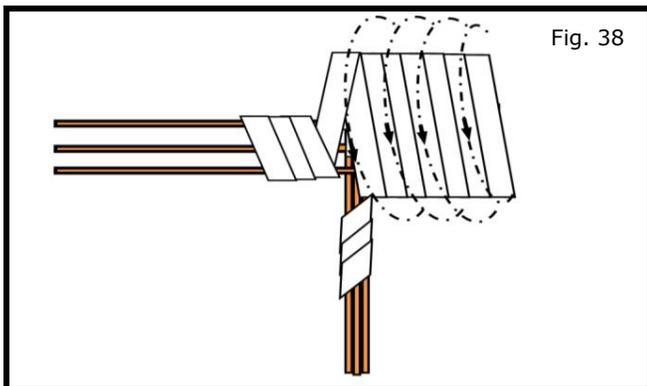


Fig. 38

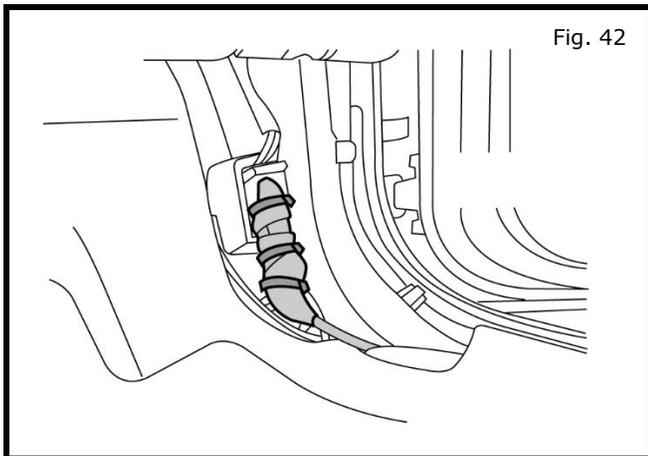
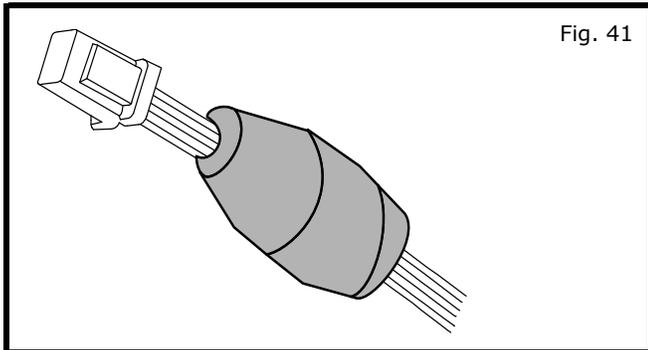
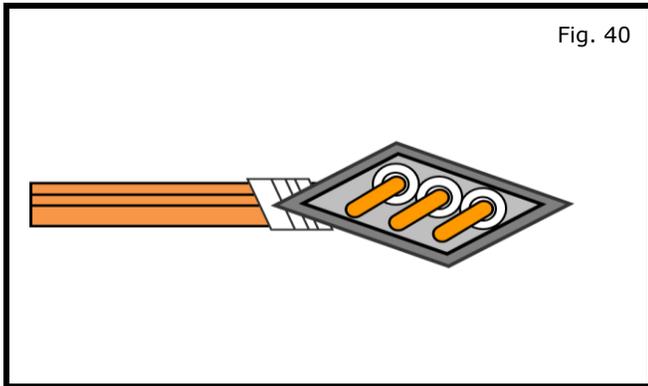
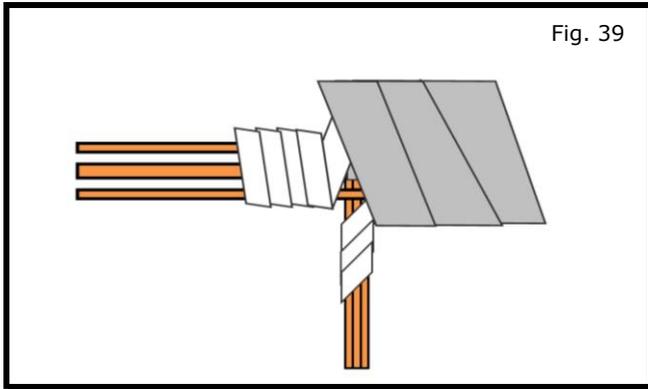
- 31) Securing multiple accessory taps (Fig. 34).
 - a) Make sure the accessory taps have been wrapped appropriately as detailed previously and as shown.

- 32) Securing multiple accessory taps
 - a) Starting at heat shrink; firmly wrap posi-tap bundle with electrical tape or non-adhesive wire harness tape, making sure to overlap previous revolution.
Note: If using non adhesive tape secure at the of wrap with electrical tape ≥ 2 revolutions.

- 33) Securing multiple accessory taps
 - a) Make sure the finished wrap looks similar to Fig. 36.

- 34) Foam wrap for posi-tap bundle (foam strips)
 - a) Wrap the posi-tap bundle with foam tape, following a pattern similar to the electrical tape, making the best use of foam strips provided.

INSTALLATION PROCEDURE: POSI-TAP



- 35) Finished foam wrap for bundle (strips-top view)
a) Make sure the finished wrap looks similar to Fig. 38.
- 36) Finished foam wrap for bundle (strips-side view)
a) Make sure the finished wrap looks similar to what is shown in Fig. 39.
- 37) Wrap each Posi-Tap (G) with Electrical tape to prevent rattle.
- 38) Bundle the wrapped posi-taps with foam Tape as shown in Fig 40.
- 39) Then plug the Accessory Service Connector into the vehicle harness.
- 40) Wrap Accessory Connector with foam tape. Use cable tie to secure any excess bundled wiring to existing harness.

NOTE:

- Refer to Posi-Tap steps on pages 9 through 11 for proper wire wrapping procedures.
- Reconnect Battery. Allow 3 minutes after positive terminal reconnect before separating or reconnecting any connectors.
- Perform a functional check on system using check out procedures on page 14.

ACCESSORY FUNCTION CHECK:

- Connect module to accessory harness.
- Put vehicle ignition in ACC position.
- Two illumination LEDs will light. The status LED will blink RED and then turn off.
- Optional: If a mobile device compatible with the Qi specification is available, place device in the charging surface. The status LED will blink red once and then flash green. The mobile device should indicate it is charging.

Re-assembly process:

- Trim all zipties
- Replace three nuts securing bin to vehicle. Torque to 15 Nm
- Replace passenger footwell carpet
- Replace all trim parts in reverse order they were removed.
- Reconnect 12V power point harness to rear center console finisher.
- Perform final vehicle check as required.

14. BILL OF MATERIALS:

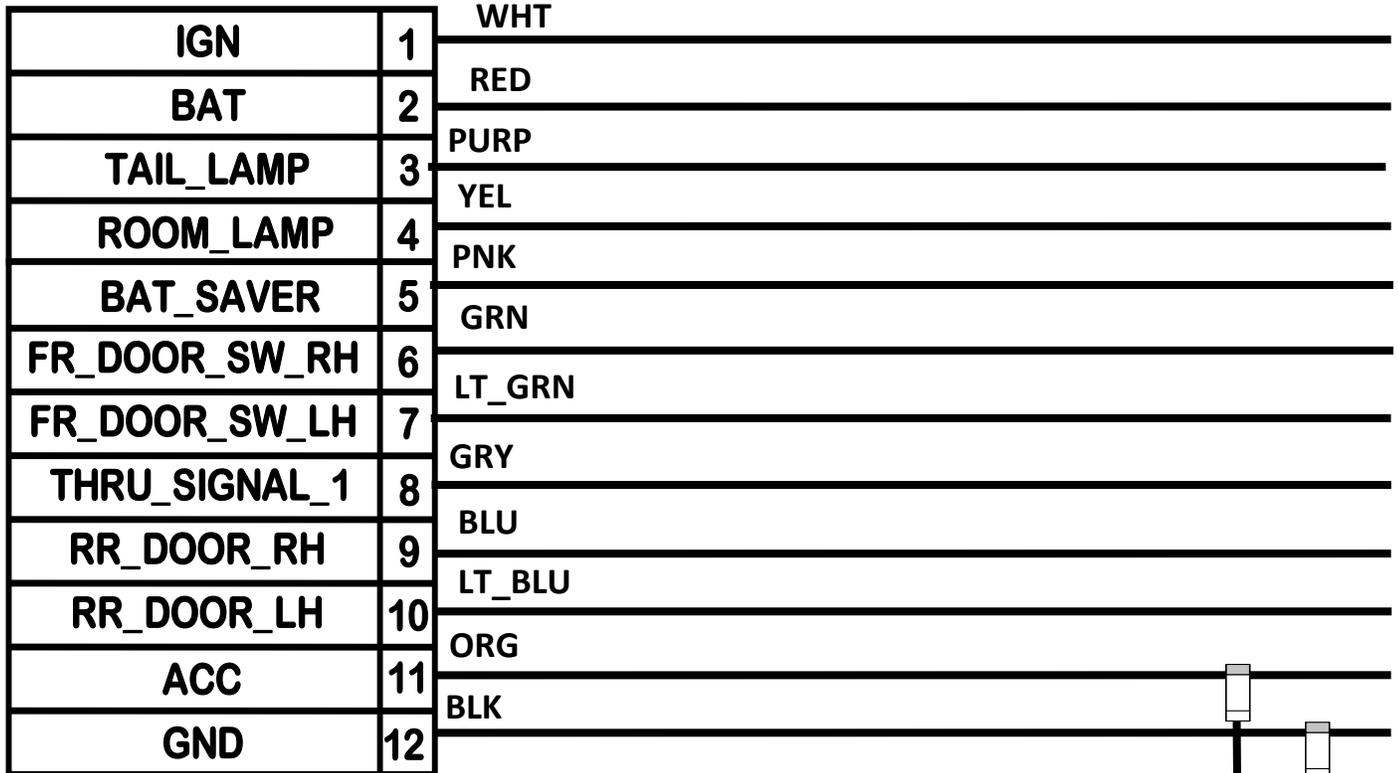
Wireless Charging Kit - 999F7 V4100

Item	Part Description	Qty.	Service Part Number
	Wireless Charging Module	1	999F7 V4006
	Installation Parts Kit	1	999F7 V4010
	Wire Harness (w/ in built fuse)	1	999F7 V4002
	Posi-Taps	2	999M1 VT000
	Tie Wraps	8	
	Double Sided Tape	1	
	Foam Tape	11	
	Felt Carpet Mat	1	999F7 V4101
	Wireless Charging User Guide	1	
	Drill Template	1	
	Installation Instruction Replacement Template	1	999V2 AW000

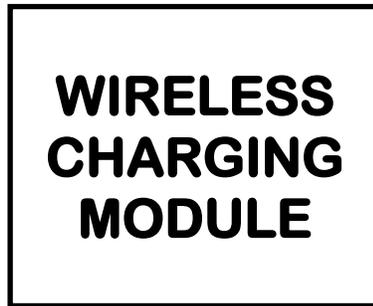
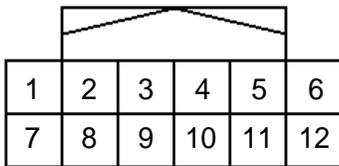
ACCY_SER_CONN

WIRELESS CHARGER KIT

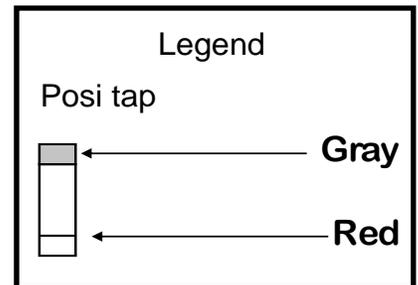
PASSENGER SIDE



TH12FW-NH



Note: Pin location is referenced looking into wire side of connector.



DRILL TEMPLATE (GD1A ONLY)

10 mm



SCALE
1 INCH

