



GENUINE PARTS

INSTALLATION INSTRUCTIONS

DESCRIPTION: Virtual Key Kit

APPLICATION: 2022~ Frontier

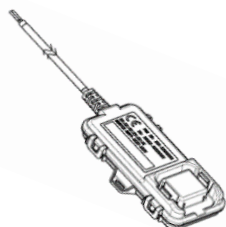
PART NUMBER(S) T99K1 6TA01, Virtual Key

REQUIRED FOR

INSTALLATION: T99F6 4RA0A , Accessory Service Connector - not included in kit above

KIT CONTENTS: Virtual Key

A



B

Carpet tape
89mm x 46mm

x5

C

Foam tape
60mm x 90mm

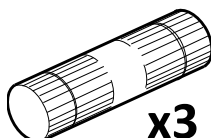
x2

D



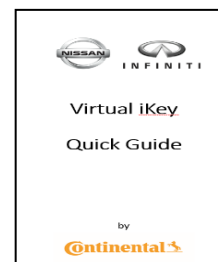
x5

E



x3

F



x2

G



ADDITIONAL SERVICE PARTS NOT INCLUDED IN KIT ABOVE :

Item	Qty.	Part Description	Service Part Number
AAA	1	Accessory Service Connector	T99F6 4RA0A
BBB	1	Pick Up Coil - Required for reprogramming Virtual key to vehicle.	T99K1 6TA04
CCC	1	Air Coil - Required for reprogramming Virtual key to vehicle.	



AAA



BBB



CCC

ONLY FOR PROGRAMMING SERVICE PROCESS

PART NUMBER(S) T99K1 6TA01, Virtual Key Kit
REQUIRED FOR
INSTALLATION: T99F6 6RA0A, Accessory Service Connector - not included in kit above

KIT CONTENTS:

Item	Qty.	Part Description	Service Part Number
A	1	Virtual Key device	T99K1 6TA04
B	5	3M Beta Tape 46 x 89mm	
C	2	Foam Tape 90 x 60mm	
D	5	Wire ties	
E	3	Posi-Taps	
F	2	Quick Reference Guide	
G	1	Installation Instruction Website Address	
BBB	1	Pick up coil - Not part of Virtual key kit, service part only required for reprogramming virtual key.	
CCC	1	Air coil - Not part of Virtual key kit, service part only required for reprogramming virtual key.	

SERVICE

For **Firmware Update** procedure please go to Appendix C.
For **Reprogramming Procedure** please go to Appendix D.

TOOLS REQUIRED:

- Trim Stick (Nylon)
- #2 Phillips Screw Driver
- Electrical Tape
- Torque screw driver
- 10mm socket
- Dealer certified iOS/Android device (with KaaS Admin App)
- Consult Tool

INSTALLATION CAUTIONS:



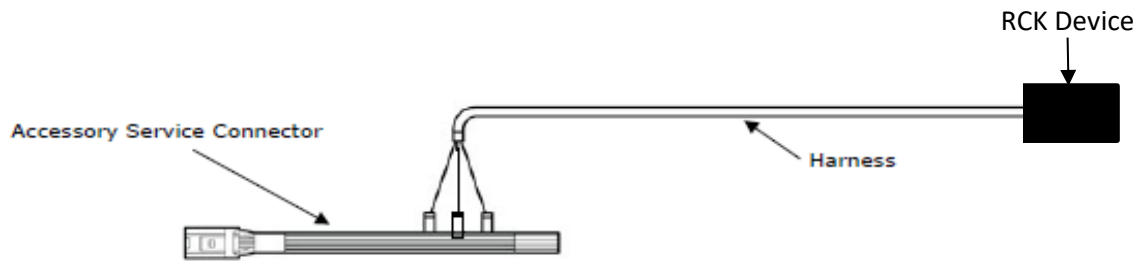
CAUTION

- Dealer installation recommended. Instructions may refer to Service Manual.
- Please read this instruction carefully before installing this product for correct installation.
- Please DO NOT use or install part in ways other than what is described.
- Always use floor, seat and steering wheel protection.
- Parts utilizing adhesion as method of attachment are to be installed at surface temperature of 15-38° C
- Posi-Tap™ instructions must be specifically followed as described in Appendix A.
- Apply masking tape as needed to protect areas that may be scratched or damaged by tools.
- Always remove vehicle parts in sequence directed. Improper procedure can damage parts.
- Take care not to scratch or damage any component during removal or re-installation process.
- Trim pieces found to have witness marks or broken clips ARE NOT to be reinstalled.
- Store removed parts in safe manner.
- If problem occurs during installation, please contact Nissan dealer where product was purchased.

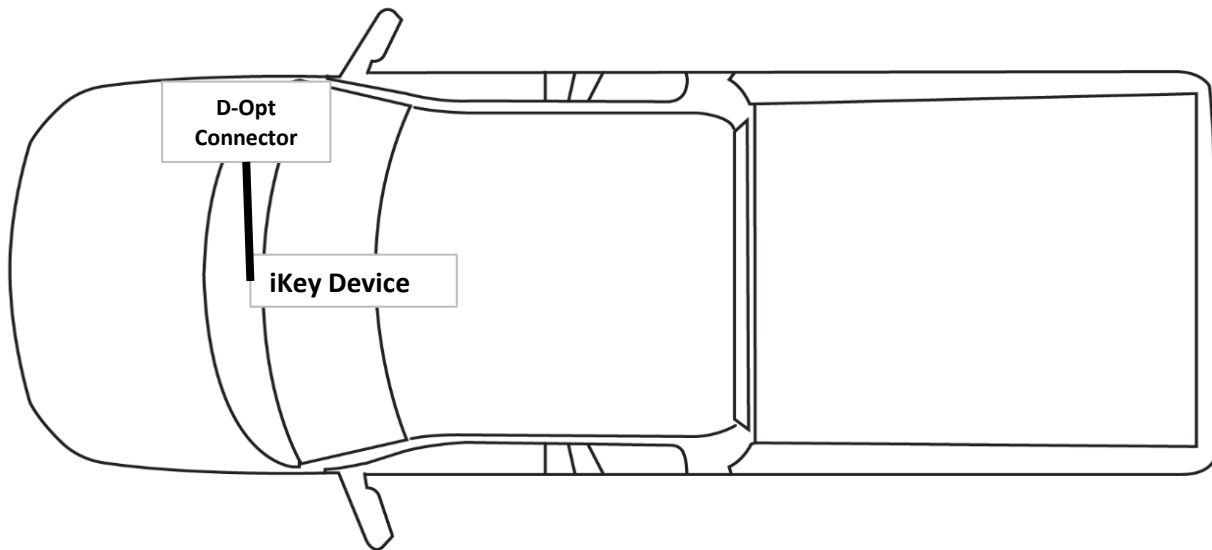
SECTION 1 - OVERVIEW

1.1) SYSTEM

System Block Diagram



1.2) VEHICLE



1.3) D-OPT CONNECTOR LOCATION

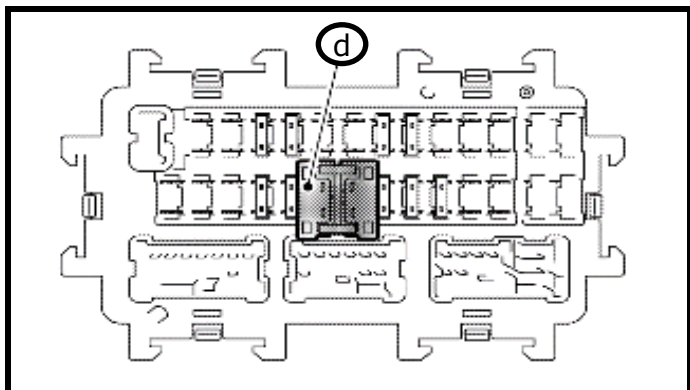


SECTION 2 - VEHICLE PREPARATION

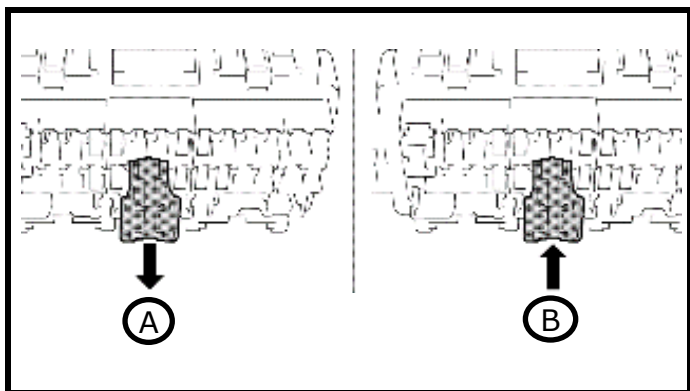


CAUTION

- Always confirm the ignition is in the "OFF" position before changing the E.S.S. position.
- If E.S.S. is not in Customer Mode, there will be loss of normal vehicle operation, preventing accessory function check.



- 2.1) Check Extended Storage Switch Position
- Put shift lever in "P" position for A/T and CVT or "1st" for M/T .
 - Apply park brake.
 - Place ignition in "OFF" mode.
 - Locate Extended Storage Switch in cabin fuse block as shown.
 - Confirm Extended Storage Switch is in "Customer" (In/Engaged) position.
 - If ESS is not In/Engaged, then proceed to step 2.2 .



- 2.2) Changing ESS Position
- To disengage Customer Mode, pull out in (A) direction as shown.
 - To engage Customer Mode, press in (B) direction as shown.

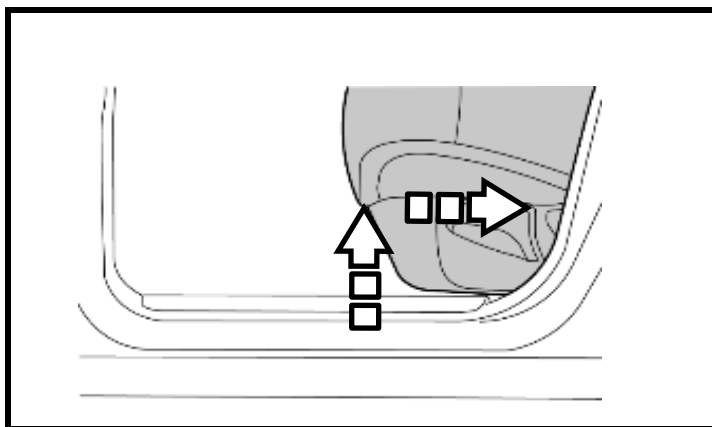
Condition	Switch Position	Note
Vehicle is delivered to the dealer	Transit (OUT)	
Vehicle is being stored at the dealer	Transit (OUT)	
Vehicle is delivered to customer	Customer (IN)	

- 2.3) Record Customer Presets
- Place ignition in "ON" mode.
 - Record the customer radio presets and other presets as required.

Preset	1	2	3	4	5	6	7	8	9	10

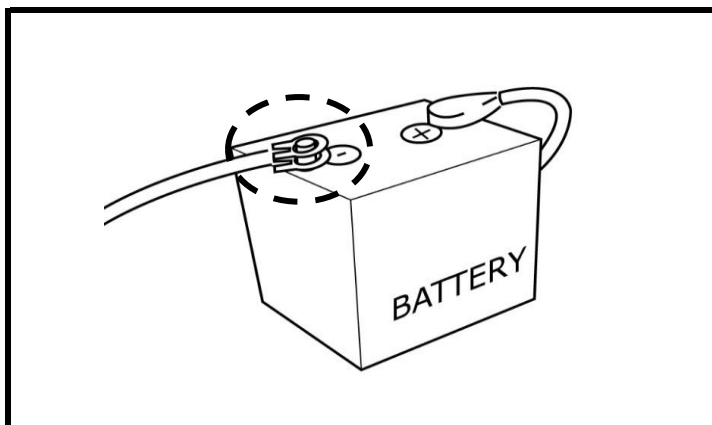
- Place ignition in "OFF" mode.

SECTION 2 - VEHICLE PREPARATION



2.4) Move Seats

- Move both front seats to full upward and rearward position.



2.5) Disconnect battery terminal

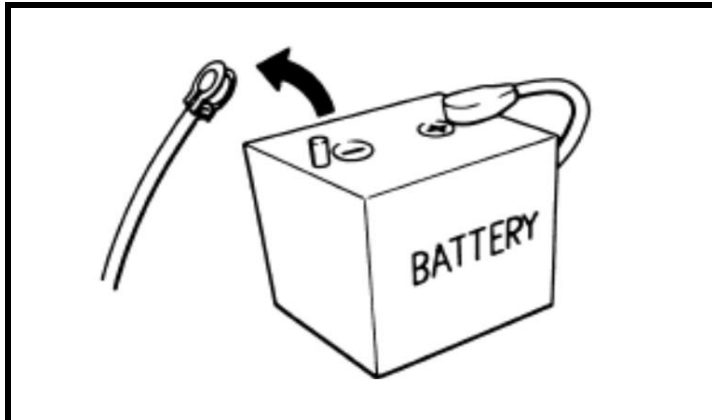
- Locate negative battery terminal.
- Loosen nut with 10mm socket

Battery Terminal Nut



! CAUTION

Allow 3 min after key off with doors closed for vehicle power time out.

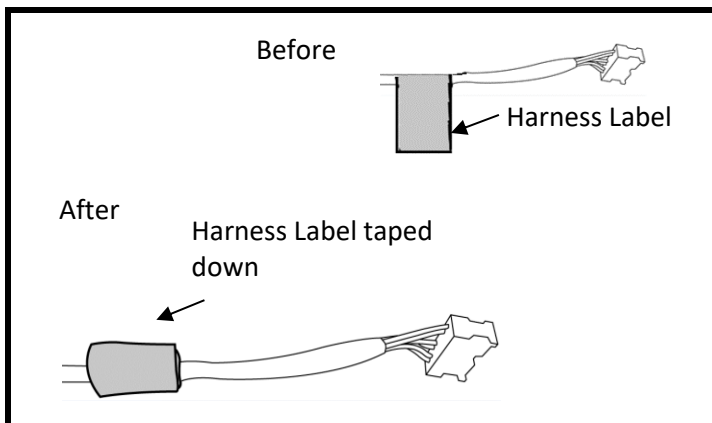


2.6) Disconnect battery terminal

- Lift negative terminal off stud
- Isolate negative battery terminal

! CAUTION

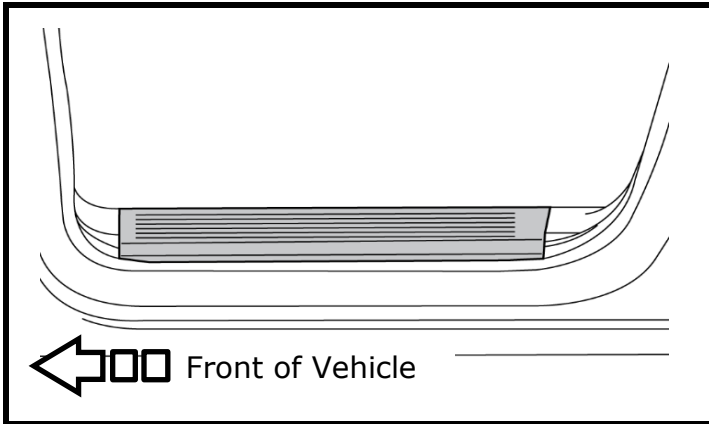
Allow 3 min after negative terminal disconnect before separating any electrical connectors.



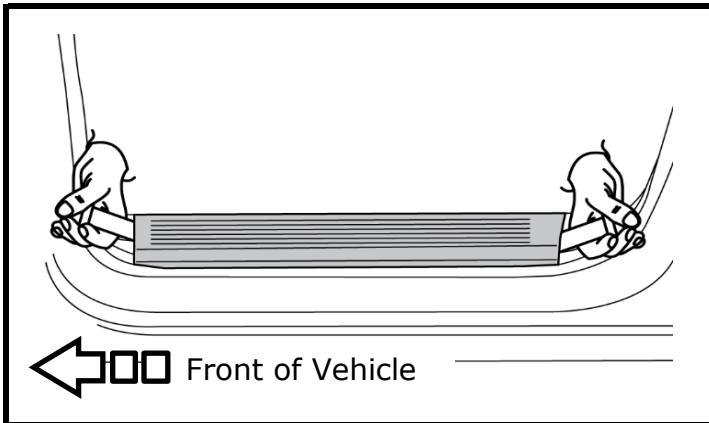
2.7) Harness preparation

- To prevent squeak and rattle, wrap label on harness around harness and secure down with tape.

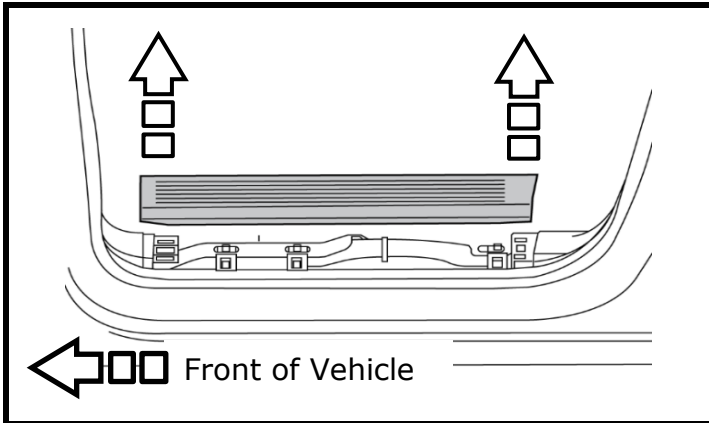
SECTION 3 - TRIM REMOVAL



- 3.1) Remove RH Trim
a) Locate LH inner sill plate assembly.

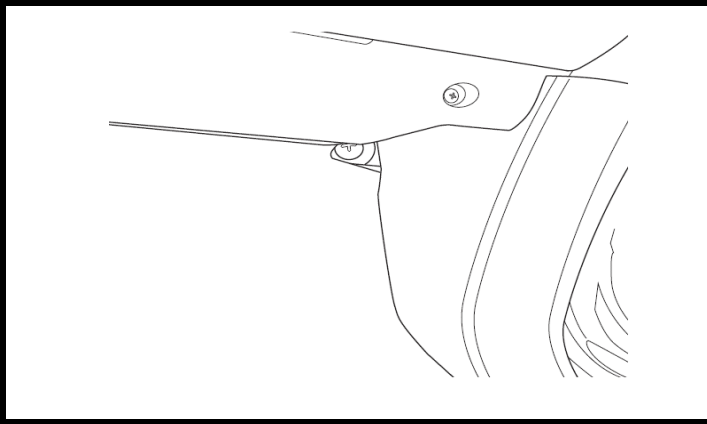


- 3.2) Remove RH Trim
a) Using trim removal tool at forward end of kick plate, pry kick plate up to disengage clips.
b) Repeat at rearward end.

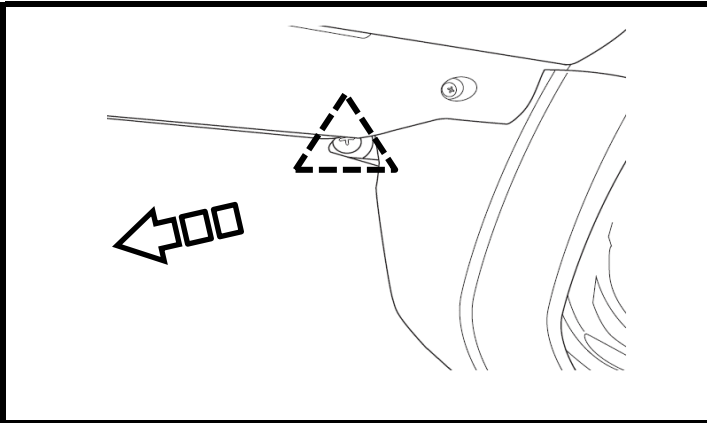


- 3.3) Remove RH Trim
a) Lift sill plate up as shown to remove.

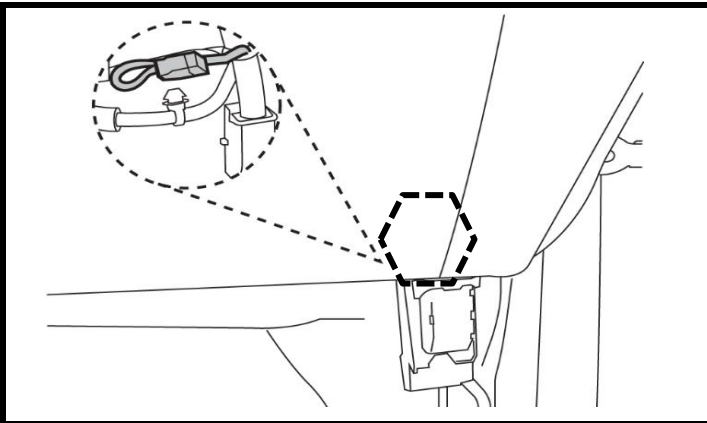
SECTION 3 - TRIM REMOVAL



- 3.4) Remove RH Trim
a) Locate RH lower kick trim.

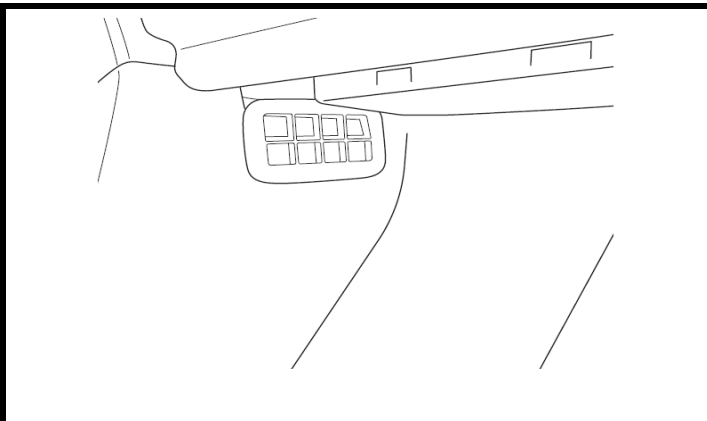


- 3.5) Remove RH Trim
a) Remove trim fastener from lower kick trim by unscrewing with hand.
b) Disengage lower kick trim pawl by pulling toward interior of vehicle, as shown.



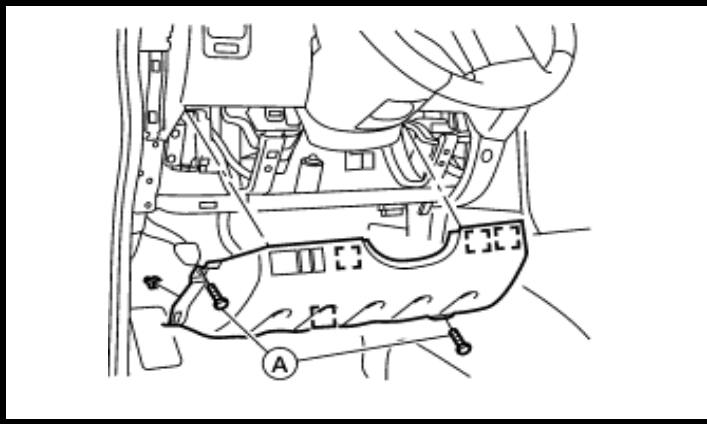
- 3.6) Locate RH-DOPT Connector

D-Opt Connector



- 3.7) Remove RH Inner Kick Panel Trim
a) Carefully pry out center footwell panel from passenger side of center console.
b) Pull out at center and slide to rear.
c) Ensure front retainer clip stays with panel

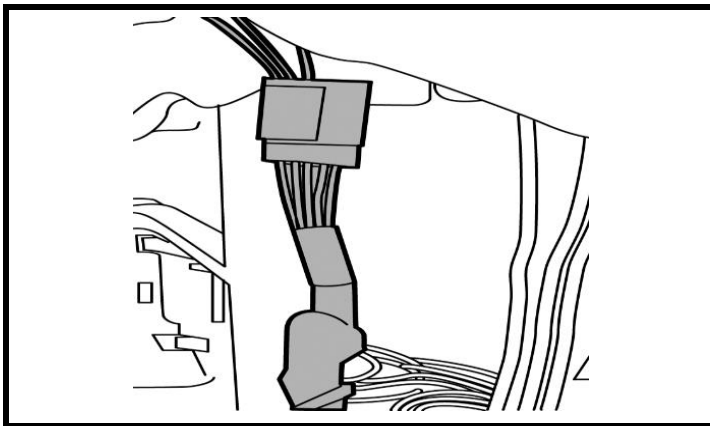
SECTION 3 - TRIM REMOVAL



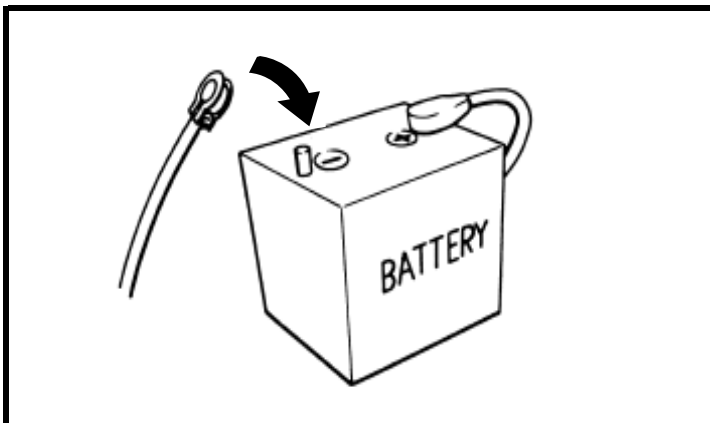
3.8) Remove steering column

- a) Remove the steering column as shown on left.

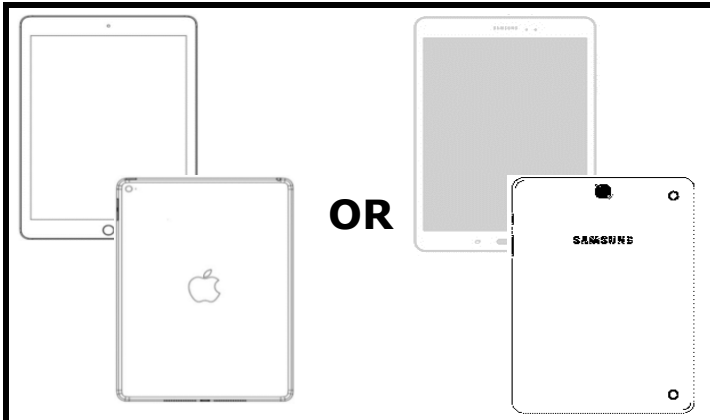
SECTION 4 - INSTALLATION PROCEDURE



- 4.1) Connect virtual key to RH D-opt connector
- a) Using the Accessory service connector connect virtual key device to the D-OPT connector.
 - b) Using the procedure in **Appendix B**, connect the red wire on the RCK Device wire harness to the red wire on the ASC.
 - c) Using the procedure in **Appendix B**, connect the black wire on the RCK Device wire harness to the black wire on the ASC.
 - d) Using the procedure in **Appendix B**, connect the white wire on the RCK Device wire harness to the white wire on the ASC.



- 4.2) Re-connect battery terminal



- 4.3) Download KaaS Admin tool for Installation
- a) Either an Apple iPad or Samsung Galaxy Tab is required to proceed to the software install.



- 4.4) Download KaaS Admin tool for Installation
- a) Search "KaaS Admin Tool" in either Apple or Google Play Store.
 - b) Download and install the "KaaS Admin Tool" app.
 - c) Once "KaaS Admin tool" is downloaded proceed to Step 4.5

SECTION 4 - PROGRAMMING PROCEDURE (Virtual key to Vehicle)

keycore-nissan.conti

Email

Password

Sign In

Dealership

Nissan-San-Francisco

Premier Nissan
Premier Nissan - San Jose

NOTE: KaaS Admin app should already be setup, using dealer provided credentials.

IMPORTANT: If servicing / reprogramming virtual key skip to Appendix D section.

- 4.5) Program Virtual key to Vehicle
- a) Login in to KaaS Admin tool using dealer provided credentials and select your dealership to continue

Note: make sure Sales and KaaS accounts are under the same dealership.

- 4.6) Program Virtual key to Vehicle
- a) Select setup access, as shown on left.

Please select the region where the vehicle was purchased.

Europe

North America

- 4.7) Program Virtual key to Vehicle
- a) Select North Americas as region of sales.

Please select your preferred option to select the vehicle.

VIN barcode scanning

Manual entry

- 4.8) Program Virtual key to Vehicle - SCAN
- a) Select how to enter VIN, either enter manually or SCAN using the tablet's camera.
- b) If VIN was scanned, all vehicle information will autopopulate in appropriate fields. Go to step 4.10

TIP: To SCAN the VIN bar code, ensure iOS or Android tablet camera has good visibility and contrast. Glare reflection might cause camera to not SCAN the VIN.

SECTION 4 - PROGRAMMING PROCEDURE (Virtual key to Vehicle)

Please fill all required information.

VIN *

Enter the VIN here

Make *

Enter the make here

Model *

Enter the model here

Year *

Select the year

4.9) Program Virtual key to Vehicle - MANUAL ENTRY

- Enter vehicle VIN.
- Enter vehicle MAKE.
- Enter vehicle MODEL.
- Enter vehicle YEAR.
- Press submit.

Does the key fob have a remote engine start button?

YES

NO

4.10) Program Virtual key to Vehicle

- Select appropriate answer, for each question.
- Does key fob have remote engine start?

Does the key fob have a power liftgate button?

No

Yes

4.11) Program Virtual key to Vehicle

- Select appropriate answer for each question.
- Does key fob have a power liftgate button?
- If no was selected proceed to next step, otherwise go to step 4.13.

NOTE: Power Liftgate are only found in SUV. Sedans and Trucks do not have power lift gate button.

Does the key fob have a trunk release button?

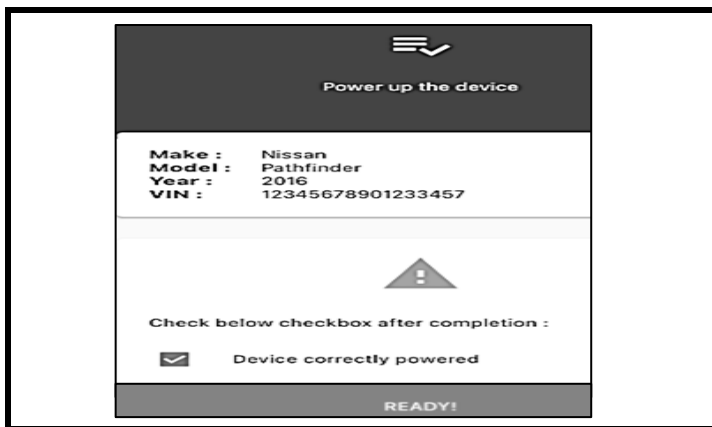
No

Yes

4.12) Program Virtual key to Vehicle

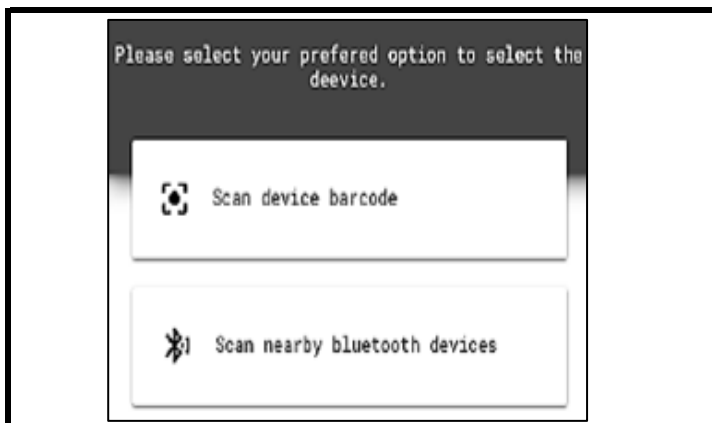
- Select appropriate answer for each question.
- Does the key fob have a trunk release button?

SECTION 4 - PROGRAMMING PROCEDURE (Virtual key to Vehicle)



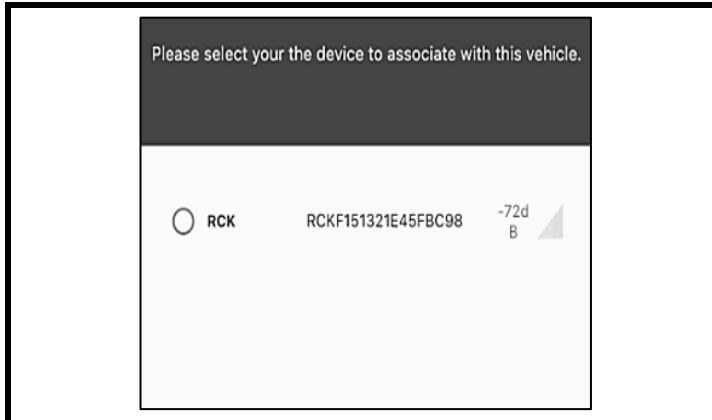
4.13) Program Virtual key to Vehicle

- Confirm Virtual key device is properly connected
- Press ready.



4.14) Program Virtual key to Vehicle

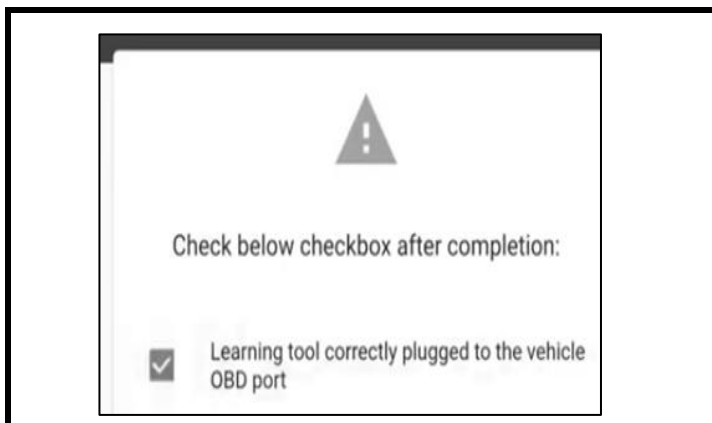
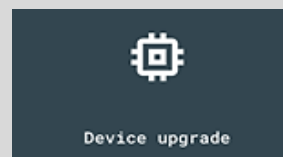
- Select either scan device barcode or scan nearby bluetooth devices.
- If scan device barcode was selected, scan the barcode on virtual key device using the tablet's camera. Go to step 4.16.
- If scan nearby bluetooth devices was selected, proceed to next step.



4.15) Program Virtual key to Vehicle

- Select the correct virtual key device, by matching the Bluetooth signal name with virtual key device

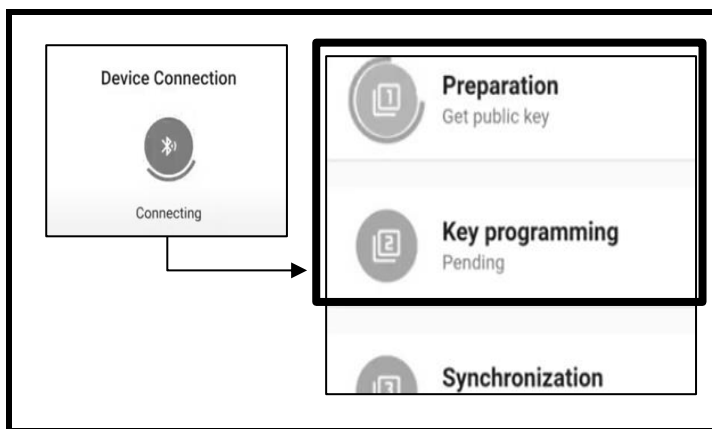
IMPORTANT: If Device Upgrade pops up go to Appendix C.1 - Automatic Process section



4.16) Program Virtual key to Vehicle

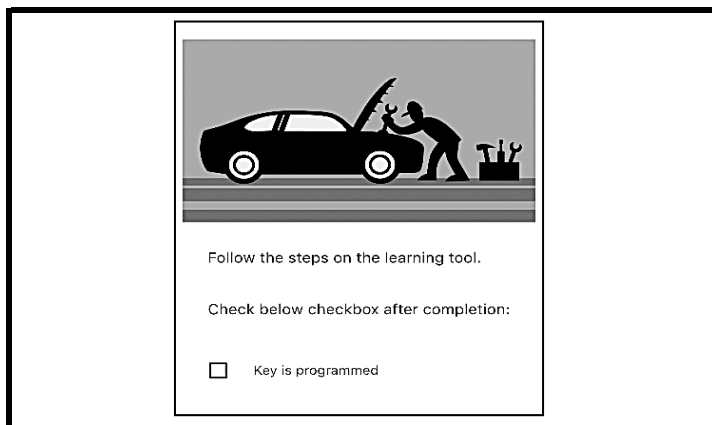
- Confirm the consult tool is correctly plugged in, select the checkbox and press ready.

SECTION 4 - PROGRAMMING PROCEDURE (Virtual key to Vehicle)



4.17) Program Virtual key to Vehicle

- Wait for device to finish configuration.
- KaaS admin app will automatically go thru preparation and key programming.

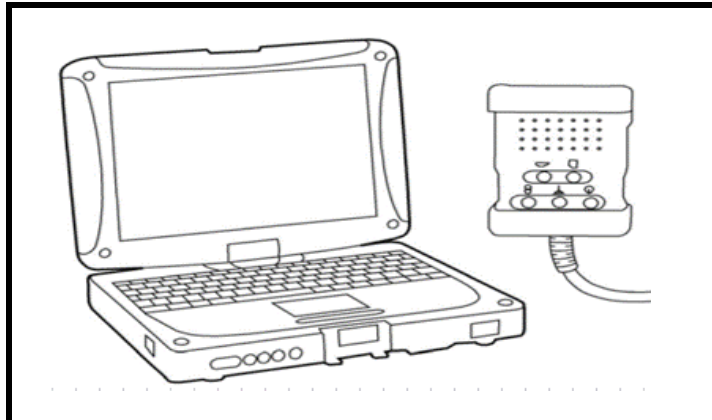


4.18) Program Virtual key to Vehicle

- STOP and proceed to key programming with consult tool. **DO NOT CHECK THE "Key is programmed" BOX**
- Proceed to next step.

CAUTION

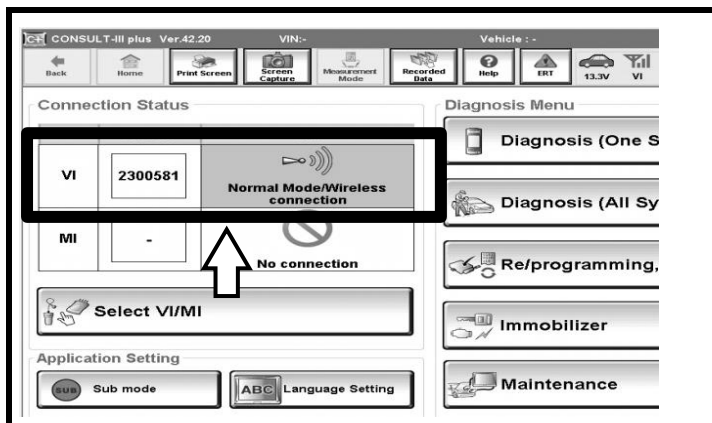
DO NOT CHECK THE BOX UNTIL VIRTUAL KEY DEVICE HAS BEEN REGISTERED AS A THIRD KEY FOB. IF YOU CHECK THE BOX BY ACCIDENT, PLEASE UNCHECK IT BEFORE PROCEED TO THE NEXT STEP.



4.19) Connecting to the vehicle.

- Press and hold Start Button for at least 2 seconds without depressing brake to put vehicle in Key On / Engine Off.
- Connect CONSULT III plus tool to vehicle OBD connector as shown.
- Turn on hazard switch to prevent BCM from entering into CAN communication sleep mode.

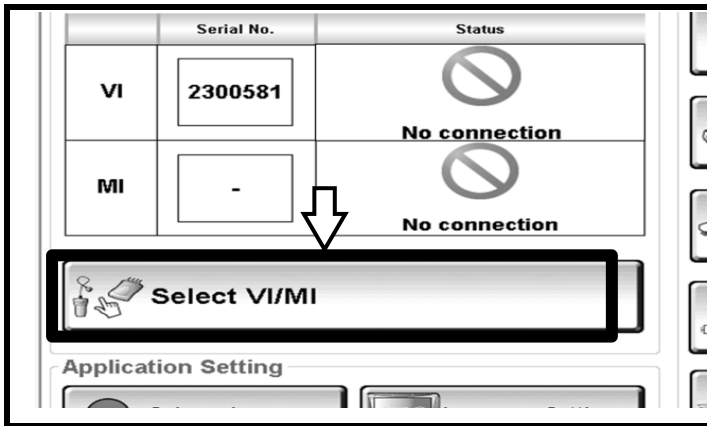
NOTE: Programming process of the Virtual Key is the same as key fobs programming



4.20) Virtual key programming instructions.

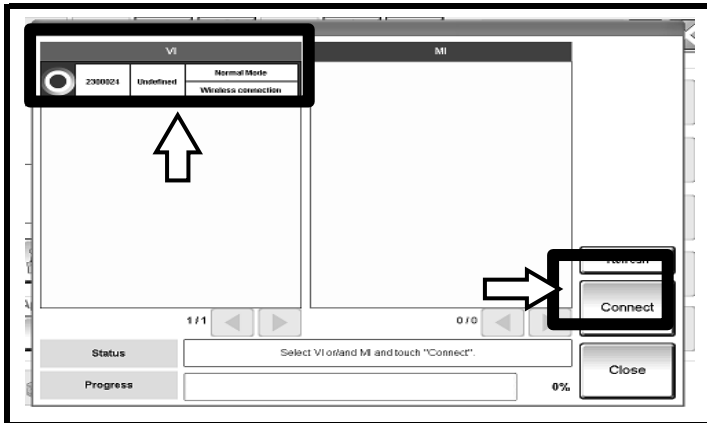
- Start CONSULT III plus. Make sure VI is connected. VI serial number will appear in VI section and VI status will change to "Normal Mode" (green color) as shown.
- If VI is connected to vehicle go to step 3.8 and continue the installation. If VI is not connected proceed to step 3.20.

SECTION 4 - PROGRAMMING PROCEDURE (Virtual key to Vehicle)



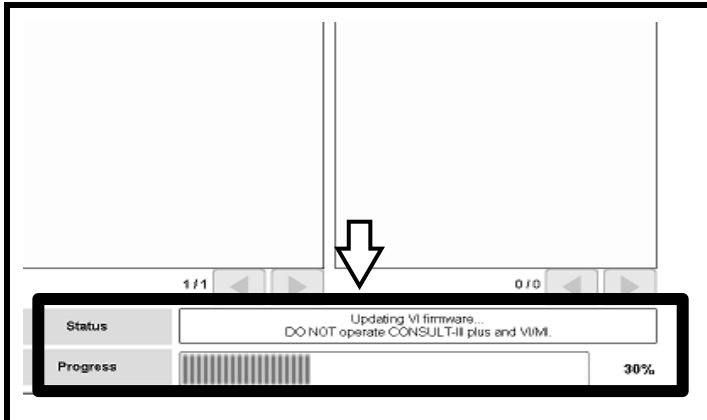
4.21) Virtual key programming instructions.

- a) If VI has not connected to vehicle, click "Select VI/MI" button to connect with vehicle as shown.



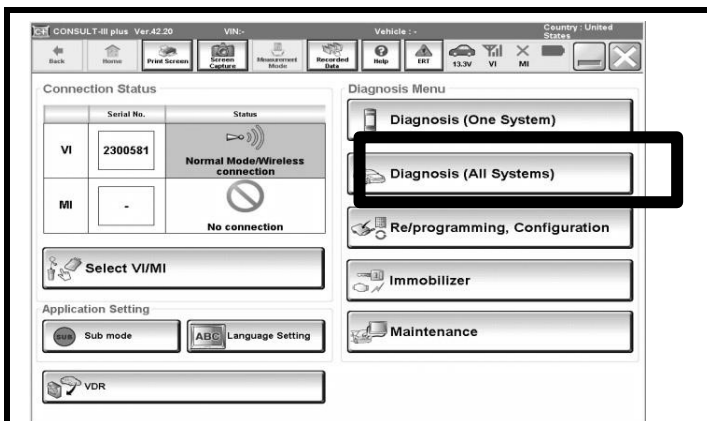
4.22) Virtual key programming instructions.

- a) Choose VI-2 detected as shown.
- b) Click "Connect" as shown.



4.23) Virtual key programming instructions.

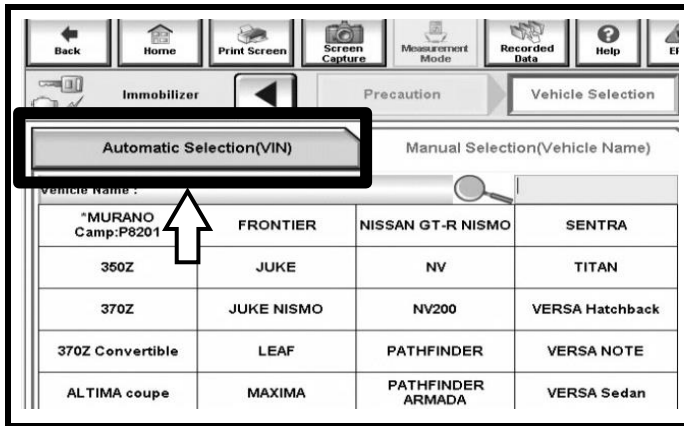
- a) Wait until VI-2 firmware update is complete as shown.



4.24) Virtual key programming instructions.

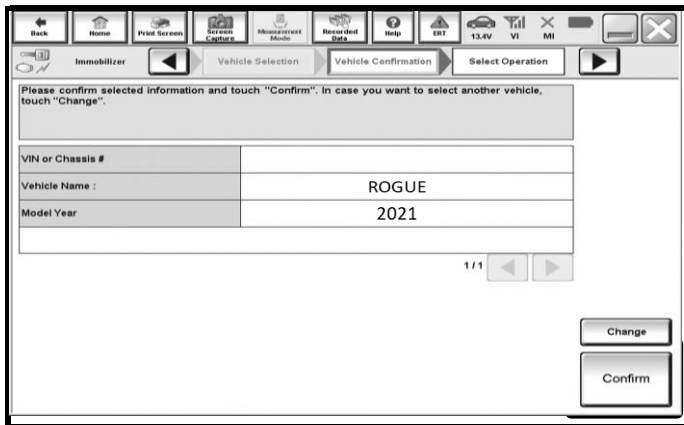
- a) CONSULT III plus will change to the home screen automatically when the procedure is complete and VI-2 is connected to Bluetooth as shown.
- b) Click "**Diagnosis (All Systems)**" as shown.
- c) Wait for systems diagnosis process to complete.

SECTION 4 - PROGRAMMING PROCEDURE (Virtual key to Vehicle)



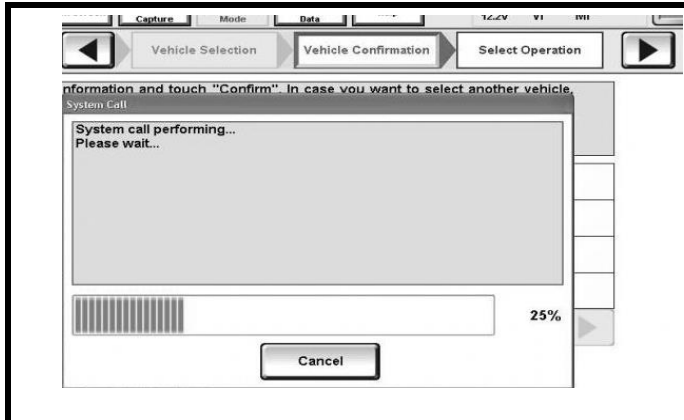
4.25) Virtual key programming instructions.

- Click "**Automatic Selection**" as shown.



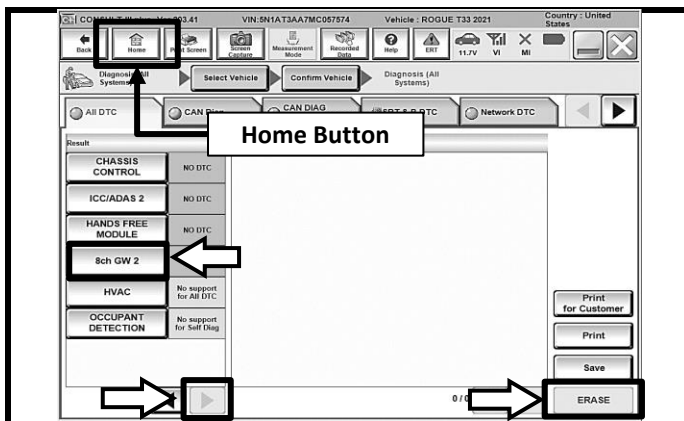
4.26) Virtual key programming instructions.

- Review the information on the confirmation screen. If correct, click "**Confirm**" as shown.



4.27) Virtual key programming instructions.

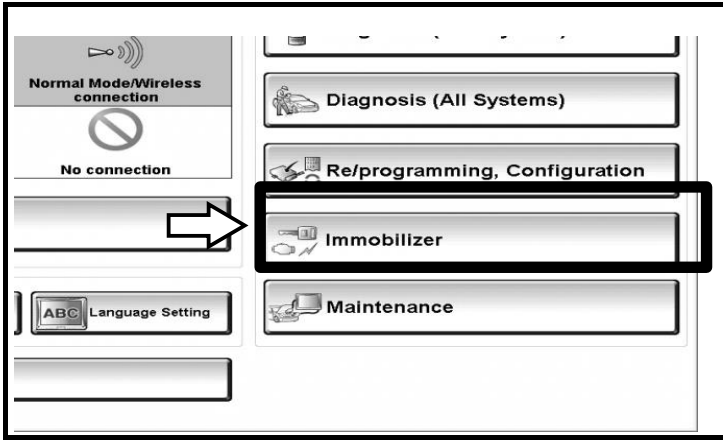
- Once you click "**Confirm**," you will see a system call menu as shown.



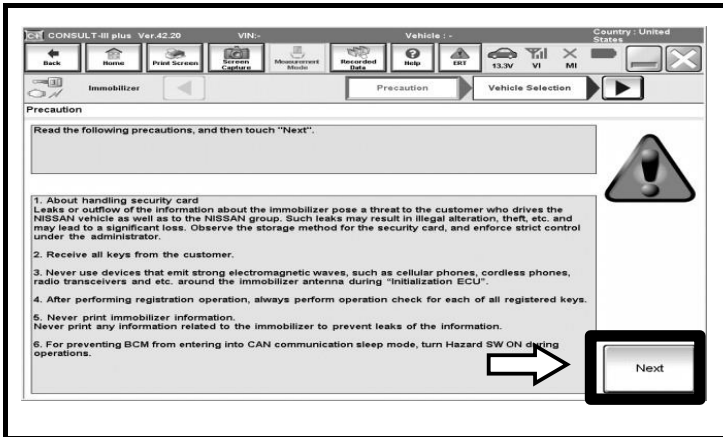
4.28) Virtual key programming instructions.

- Verify there are no DTCs, and click "**Erase**" button. Follow the prompts which follow.
- After deleting DTCs, click the "**Home**" button at the top left of the screen as shown.

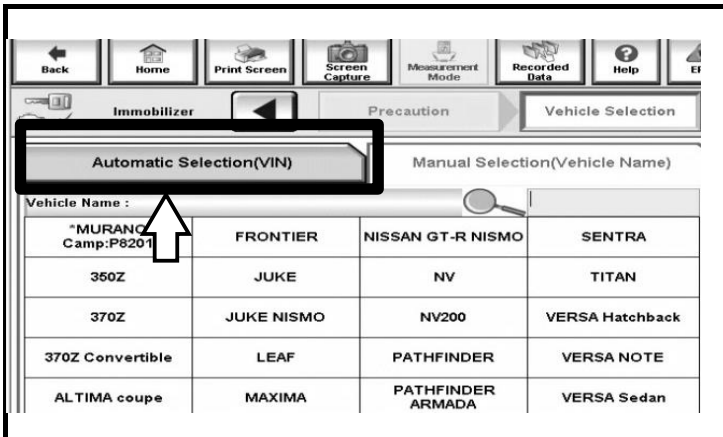
SECTION 4 - PROGRAMMING PROCEDURE (Register Virtual key to Vehicle as third key fob)



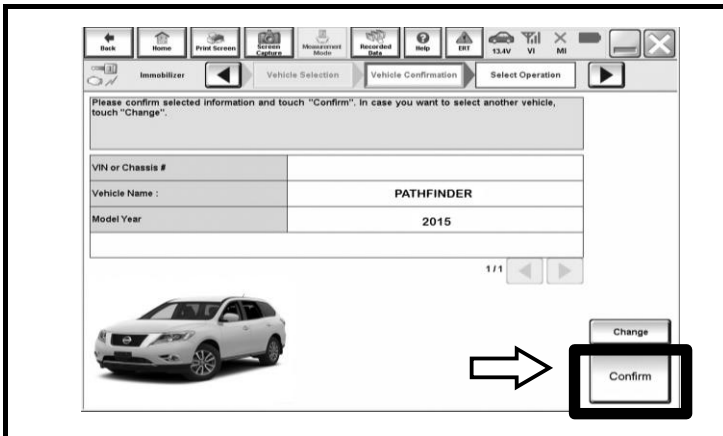
- 4.29) Virtual key programming instructions.
a) Click "Immobilizer" as shown.



- 4.30) Virtual key programming instructions.
a) A precaution screen will appear.
b) After you have finished reading all the precautions, click "Next" as shown.

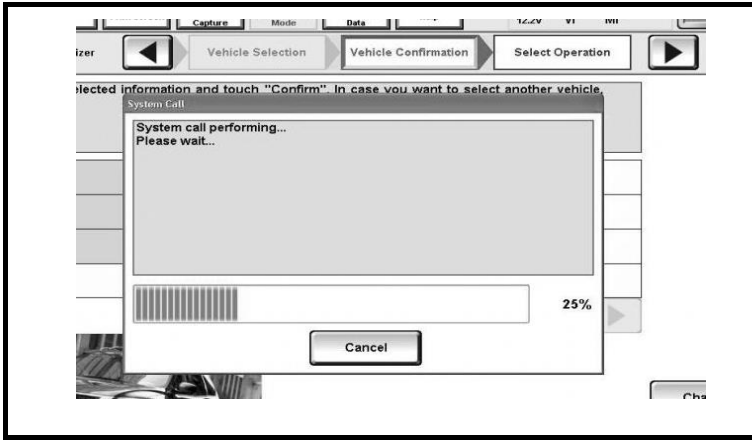


- 4.31) Virtual key programming instructions.
a) Click "Automatic Selection" as shown.



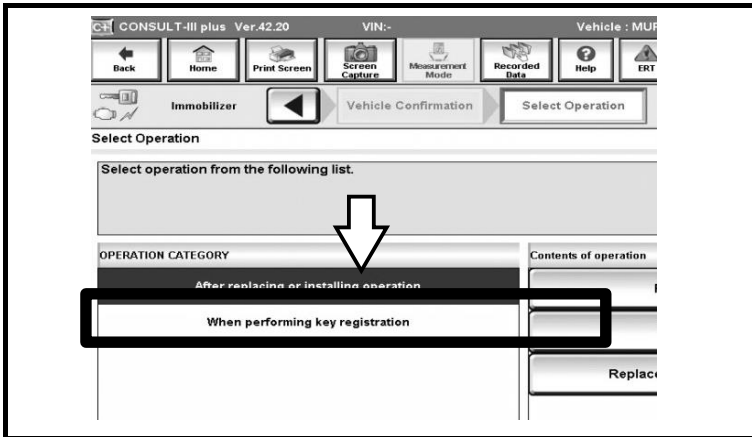
- 4.32) Virtual key programming instructions.
a) Review the information on the confirmation screen. If correct, click "confirm" as shown.

SECTION 4 - PROGRAMMING PROCEDURE (Register Virtual key to Vehicle as third key fob)



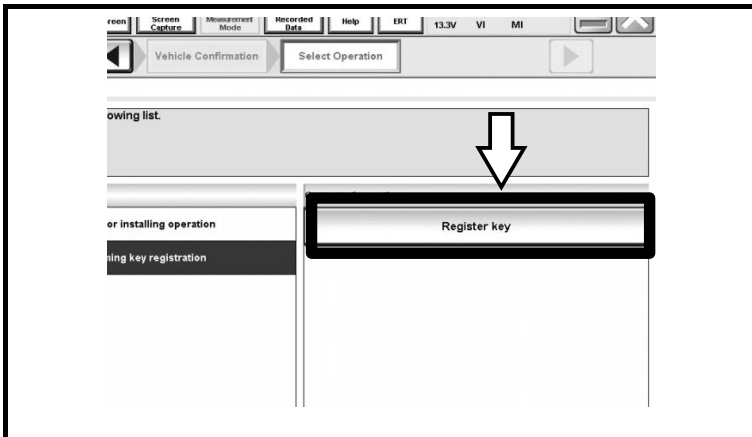
4.33) Virtual key programming instructions.

- a) Once you click "Confirm," you will see a system call menu as shown.



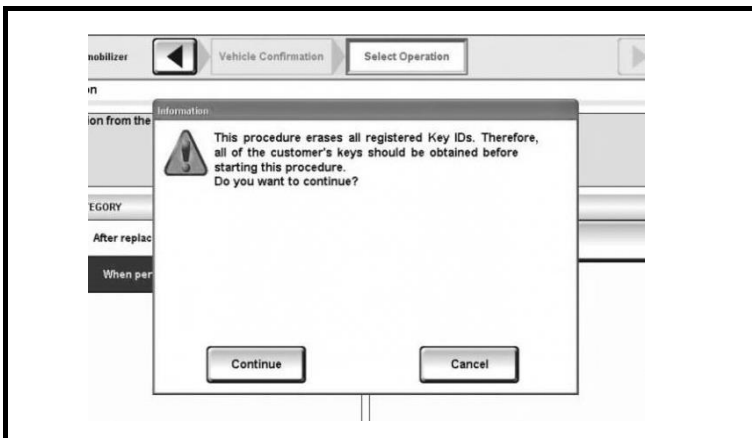
4.34) Virtual key programming instructions.

- a) Once the system call is complete, you will enter the Select Operation screen as shown.
- b) Under OPERATION CATEGORY menu, click "When performing key registration" as shown.



4.35) Virtual key programming instructions.

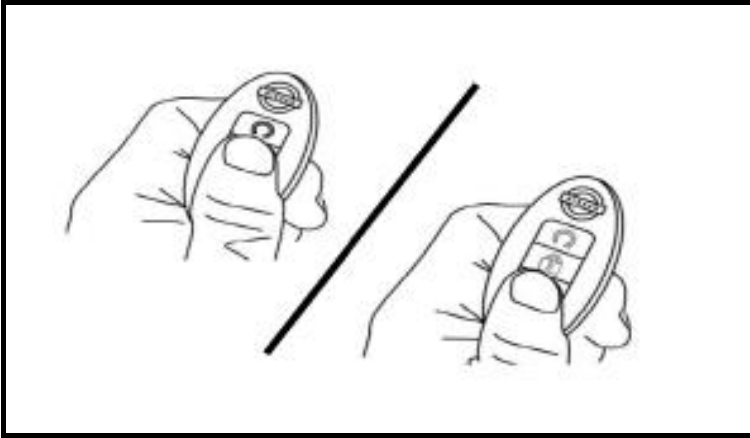
- a) Once you click "When performing key registration," a new Contents of Operation selection "Register Key" will be available as shown.
- b) Under Contents of Operations selection, click "Register Key" as shown.
- c) To register virtual key is same process as registering key fob. By holding the device near push start switch till registering is complete.



4.36) Virtual key programming instructions.

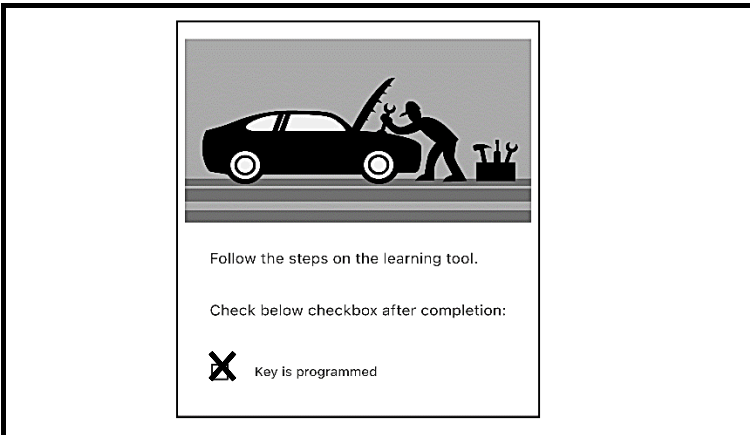
- a) Follow the CONSULT III plus prompts as shown.

SECTION 4 - PROGRAMMING PROCEDURE (Register Virtual key to Vehicle as third key fob)



4.37) Virtual key programming instructions.

- a) From inside the vehicle, press Lock on Fob 1 and Unlock on virtual key app, confirm that vehicle responds accordingly as shown.
- b) From inside the vehicle, press Lock on virtual key app and Unlock on Fob 2, confirm that vehicle responds accordingly as shown.



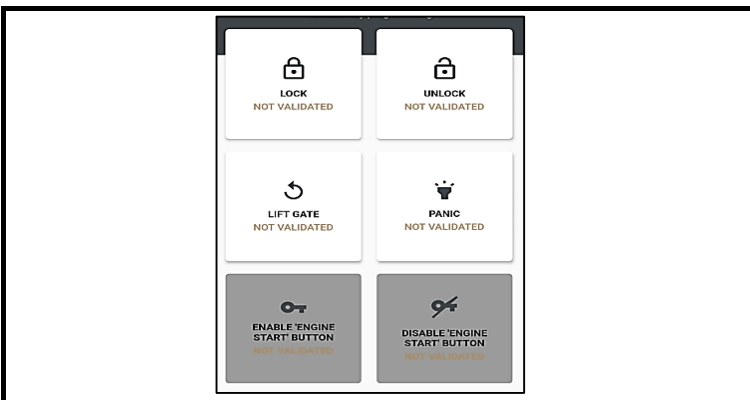
4.38) Program Virtual key to Vehicle

- a) Check the "Key is programmed" box once virtual key has been programmed to the vehicle using consult tool.



4.39) Program Virtual key to Vehicle

- a) Key programming has been completed with Consult tool.
- b) KaaS admin app will go thru Synchronization, Calibration, and Verification.



4.40) Program Virtual key to Vehicle

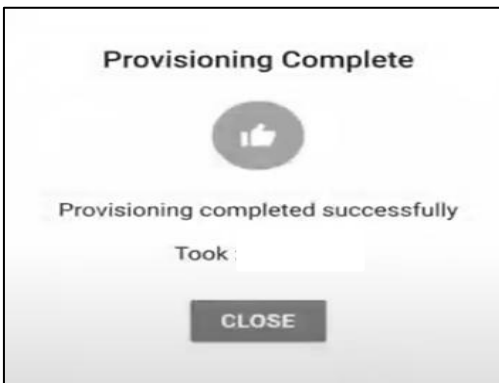
- a) Verify all vehicle functions in the KaaS admin app, Press DONE once verified.

MAKE SURE TO TURN OFF HAZARD LIGHTS BEFORE PERFORMING FUNCTIONAL CHECK.

TIP: Perform Vehicle functions in such order:

- 1.) Unlock
- 2.) Lock
- 3.) Remote Engine Stop
- 4.) Trunk release or Trunk lift gate open/close
- 5.) PANIC
- 6.) Enable start (To start vehicle)
- 7.) Disable start (Vehicle will not start, "no key detected" message will be displayed on Instrument Cluster)

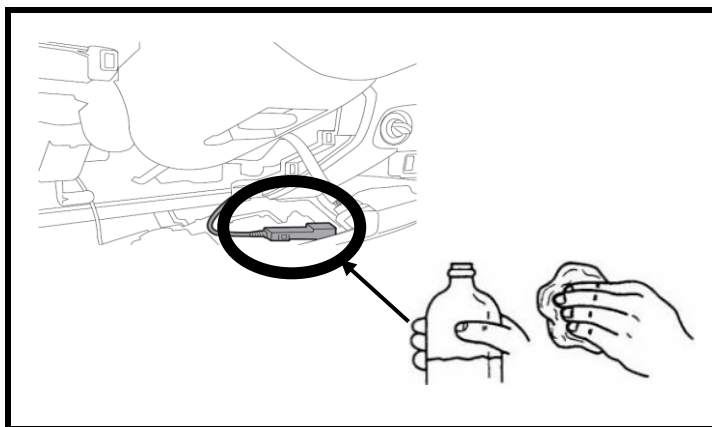
SECTION 4 - PROGRAMMING PROCEDURE (Register Virtual key to Vehicle as third key fob)



- 4.41) Program Virtual key to Vehicle
 - a) Confirm installation report is complete, press close to return to main screen.
 - b) Provisioning virtual key to the vehicle has been completed.

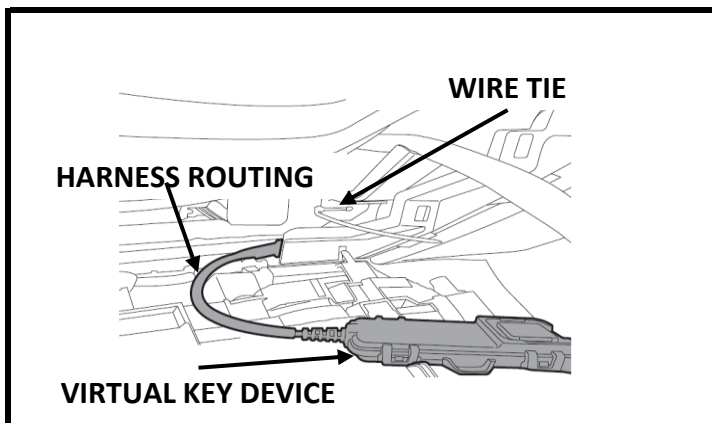
- 4.42) Firmware Update - Manual Process
 - a) If there was no "Device Upgrade" message on step 4.12, go to Appendix C.2 and perform Firmware Update - Manual Process.

SECTION 5 - INSTALLATION PROCEDURE (Virtual key)



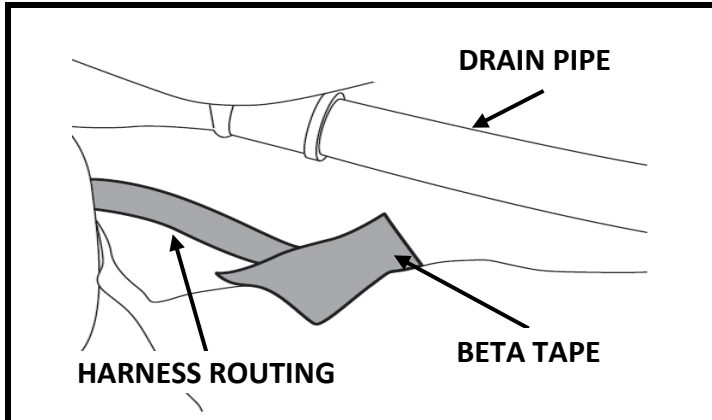
5.1) key Device Installation

- Clean the area where Virtual key device will be mounted
- Wipe back of finisher area clean of any dirt.
- Wipe using alcohol/water solution on a soft non-linting cloth.
- Let dry for 30 seconds.



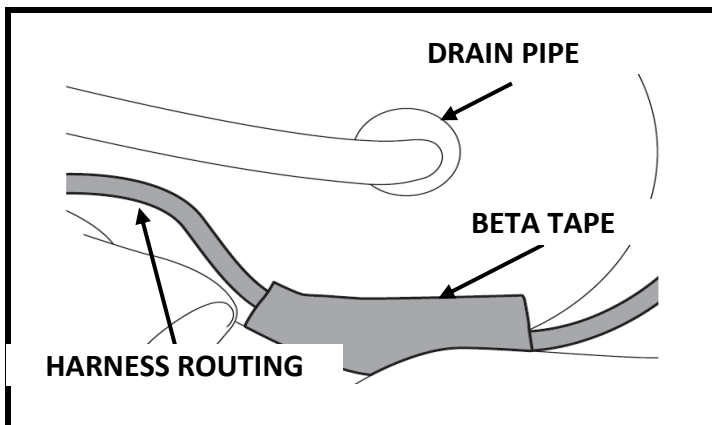
5.2) key Device Installation

- Carefully remove the linen from double sided tape on back of key device.
- Attach key device to the steering panel, as shown on left.
- Press and hold firmly on key device to attach to trim panel.
- Press and hold firmly on virtual key device to attach to carpet floor, apply 15lbs of pressure for 30 seconds.



6.3) Route Power harness

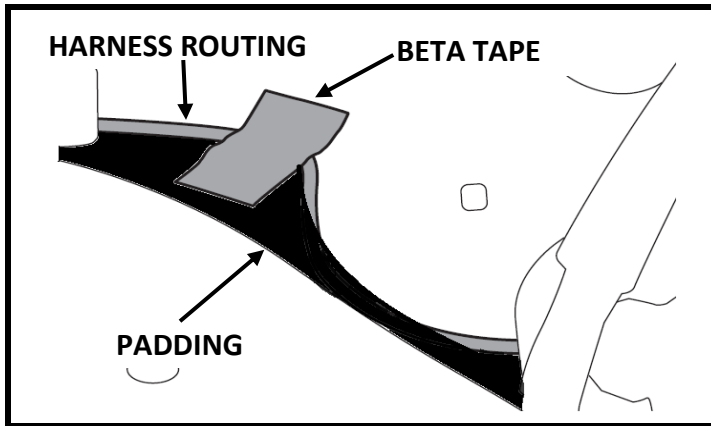
- Pull back passenger side carpet.
- Route key device harness to the (RH) Accessory Service Connector, going under the drain pipe.
- Apply 3M beta tape as shown on left.



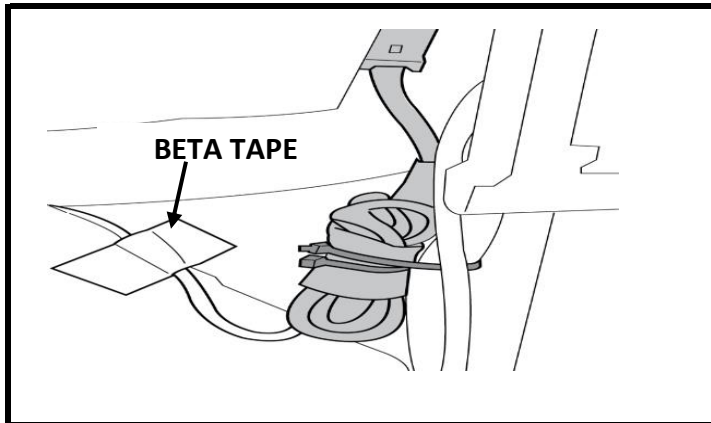
6.4) Route Power harness

- Pull back passenger side carpet.
- Route key device harness to the (RH) Accessory Service Connector, going under the drain pipe.
- Apply 3M beta tape as shown on left.

SECTION 5 - INSTALLATION PROCEDURE (Virtual key)



- 5.5) Route Power harness
- a) Pull back passenger side carpet.
 - b) Route harness under the padding tuck it in at the bottom.
 - c) Apply 3M beta tape as shown on left.



- 5.6) Apply foam tape and wire tie to the ASC.
- a) Be sure to apply foam tape around posi-taps. Wire tie to the existing vehicle harness, as shown on left.

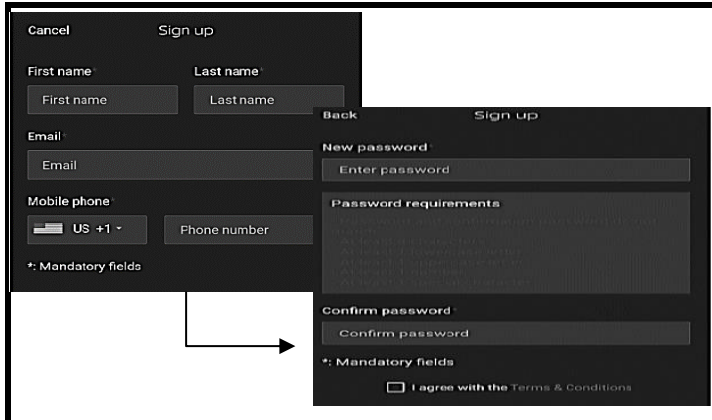
SECTION 6 - TRANSFER VIRTUAL key to Customer (Sales to Customer)



- 6.1) Download/Install Virtual key app
- Have customer search "Nissan Virtual key", on their smartphone device in either apple or google play store.
 - Download and install Nissan Virtual key app.

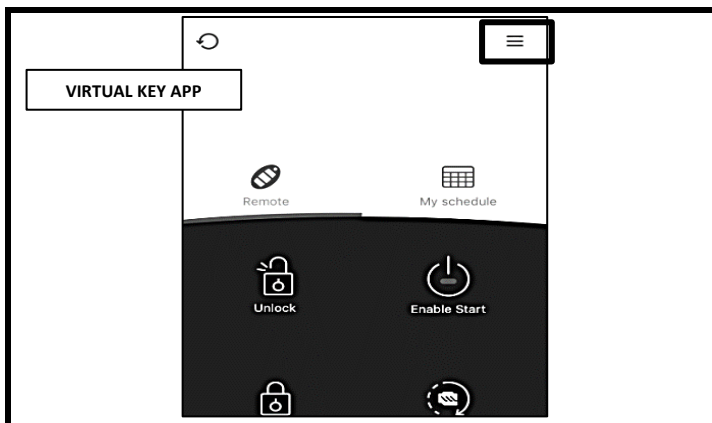


- 6.2) Create Virtual key account
- If customer does not have account, have them sign up for a new virtual key account. Go to next step.
 - If customer already has an existing account have them sign-in using their credentials. Email address and password. Go to step 7.4



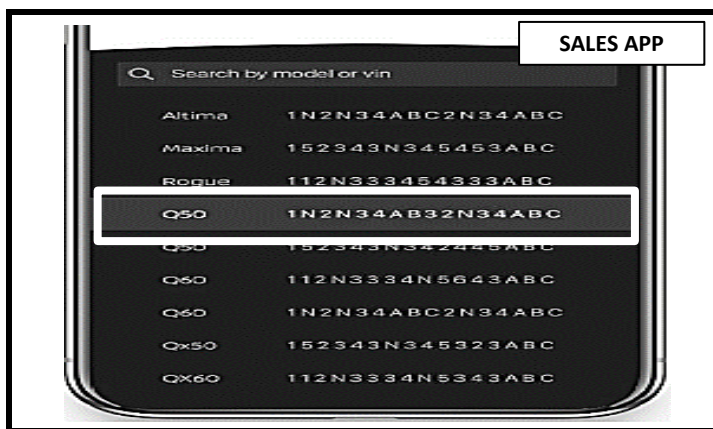
- 6.3) Create Virtual key account
- Have customer enter all the required information to sign up for account: Name, Email, Mobile Phone, and Password.
 - Check terms and conditions box.
 - Press create new account.

NOTE: For security purposes, Virtual key app is equipped with double password verification, customer will need to access the email address they provided, to retrieve the confirmation code.



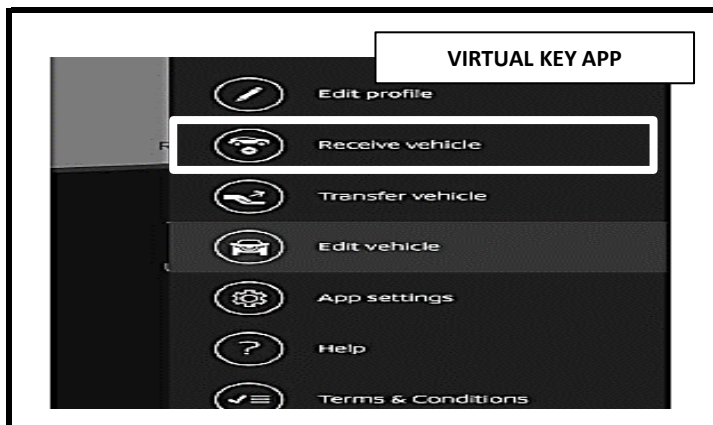
- 6.4) Go to settings to receive vehicle
- After logging in, have customer go to settings.

SECTION 6 - TRANSFER VIRTUAL key to Customer (Sales to Customer)



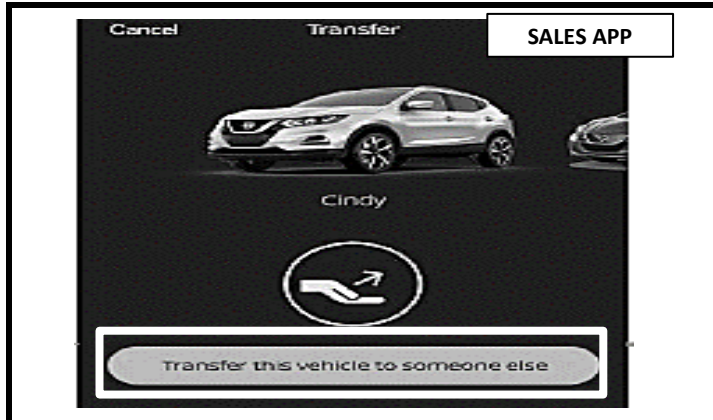
6.5) Transfer Virtual key to Customer

- Have customer select receive vehicle option from the settings menu in Virtual key app, as shown on left.
- If vehicle does not show up in the inventory menu, enter VIN which you want to transfer to new owner. Vehicle should show up on the screen, as shown on the left.
- Select the vehicle required to transfer to customer, this will start the transfer process.



CAUTION

MAKE SURE CUSTOMER HAS A VALID VIRTUAL key ACCOUNT. IF NOT CUSTOMER WILL NEED TO CREATE AN ACCOUNT EITHER USING GOOGLE, APPLE, OR CONTINENTAL EMAIL ADDRESS.



6.6) Transfer Virtual key to Customer

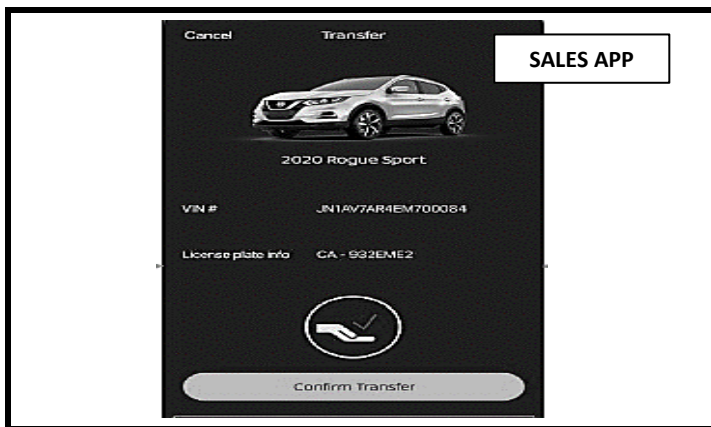
- Press transfer this vehicle to someone else



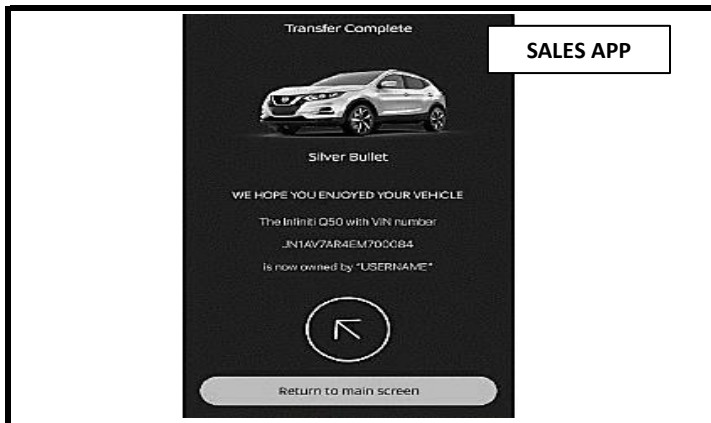
6.7) Transfer Virtual key to Customer

- Scan QR code from customer phone.

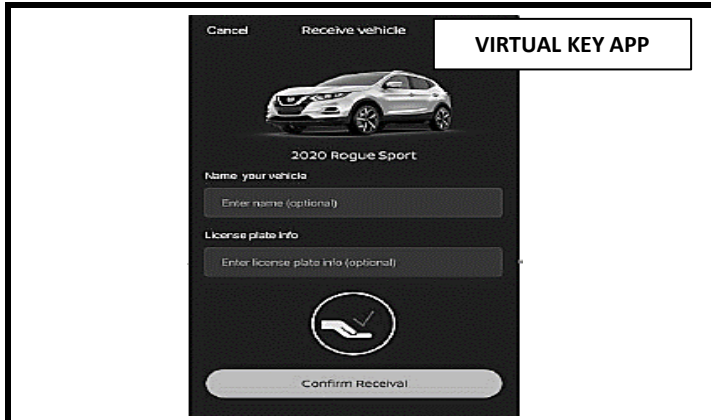
SECTION 6 - TRANSFER VIRTUAL key to Customer (Sales to Customer)



- 6.8) Transfer Virtual key to Customer
- Confirm VIN and License plate number match vehicle information.
 - Press confirm transfer.



- 6.9) Transfer Virtual key to Customer
- Confirm message to the left is displayed to verify successful transfer.
 - Press return to main screen.



- 6.10) Transfer Virtual key to Customer
- Have customer enter name of vehicle and license plate number. (Optional)
 - Have customer press confirm received button.



- 6.11) Transfer Virtual key to Customer
- Confirm message to the left is displayed on customer phone.
 - Have customer press return to main screen.

NOTE: Make sure customer's phone has Bluetooth turned on, first time connection to the vehicle will be between 15-20s. Reconnection time to the vehicle will be between 7-10s.

SECTION 7 - REINSTALL - (CENTER CONSOLE FINISHER)

7.1) Reinstall Trim

- a) Reinstall trim pieces that were removed in section 3.

SECTION 8 - FINAL CHECK



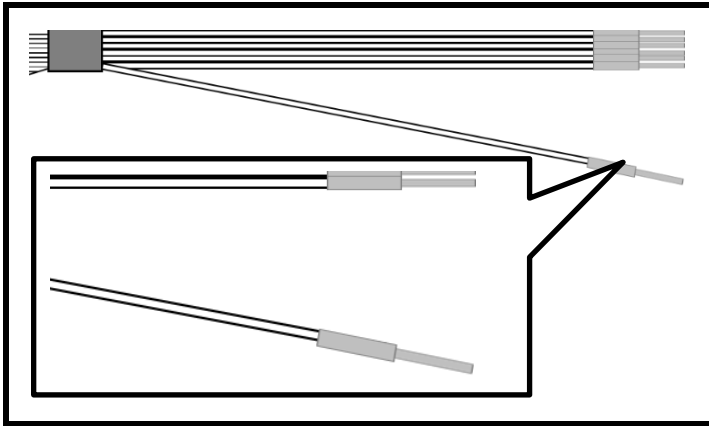
CAUTION

• Take care not to scratch or damage any component during removal or re-installation process. Trim pieces found to have witness marks or broken clips should be replaced with new parts.

8.1) Complete checklist:

- ☐ Tighten Negative battery terminal nut to 5 N·m
- ☐ Verify shift lever lock is engaged by checking with vehicle off, so shift lever can NOT be moved out of "P" (Park).
- ☐ Verify re-installed trim parts for proper fit (no gap, waviness, etc.), particularly door sill weather strip.
- ☐ Verify all windows and sunroof (if equipped), one touch operation and perform reset procedure if necessary. Refer to vehicle Service Manual for more details.
- ☐ Re-program radio presets and other vehicle settings to recorded settings if necessary.
- ☐ If this vehicle will be returned to dealer lot or showroom for extended period of time, be sure extended storage switch is placed in Transit position. (See step 2.2).
- ☐ Remove all tools, templates, and other debris from interior of vehicle.
- ☐ Verify vehicle headliner, seat, steering wheel, center console, carpet, etc. are not soiled.
- ☐ Verify interior and exterior are not damaged.
- ☐ Verify customer can perform all key fob functions on their Nissan Virtual key app.

APPENDIX A - POSI-TAP PROCEDURE



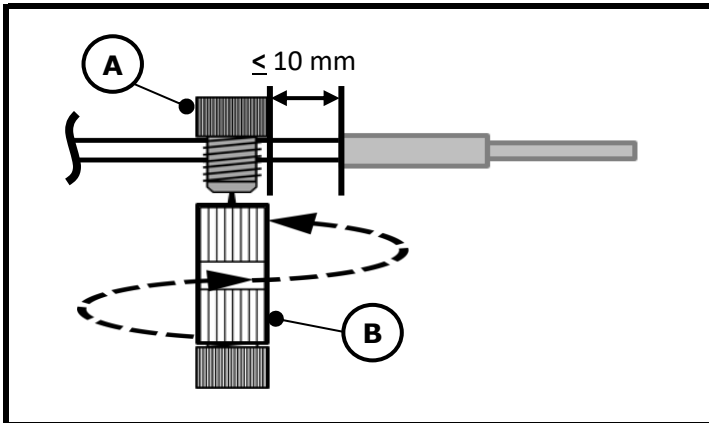
A.1) Installing Posi-Tap™ on Accessory Service Connector (AAA)

- Identify and confirm ASC wire to be tapped. Check color as well as connector location.
- Separate wire from rest of bundle.



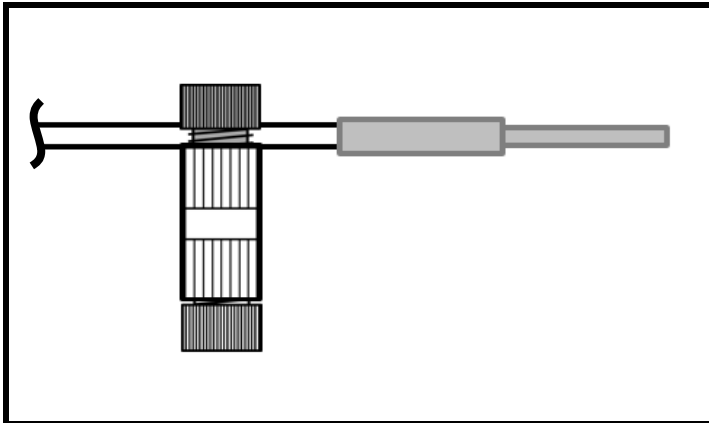
CAUTION

- Do not overtighten Posi-Tap, it may damage wire



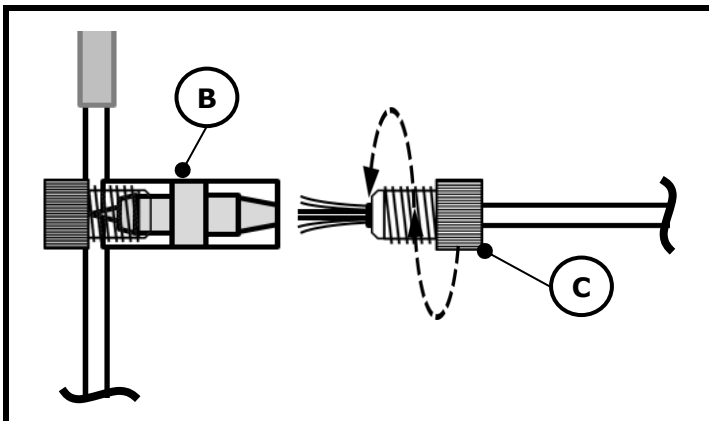
A.2) Installing Posi-Tap™ on ASC (AAA)

- Remove pierce cap (A) gray side from tap body (B).
- Slide cap around single wire to be tapped
- Position cap < 10 mm away from heat shrink end of connector
- Turn tap (B) clockwise until finger "tight". Then secure to cap (A) with another ¼ turn.



A.3) Installing Posi-Tap™ on ASC (AAA)

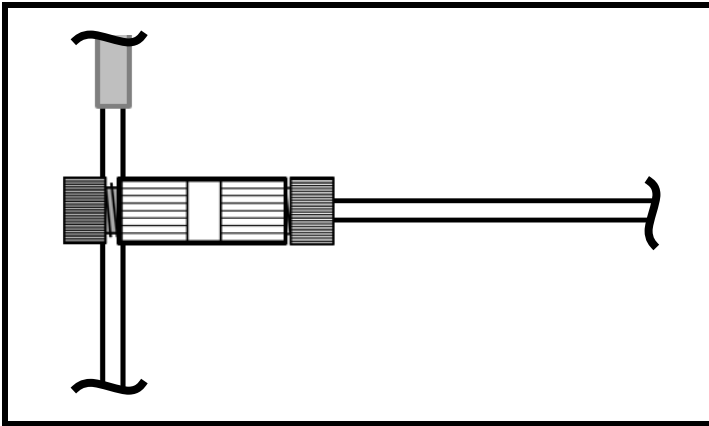
- Inspect Posi-Tap™ to ensure correct installation.
- Wire jacket should be crushed enough to maintain pressure.
- Confirm tap cap gap is straight and evenly spaced around perimeter.



A.4) Installing Accessory wire into Posi-Tap™

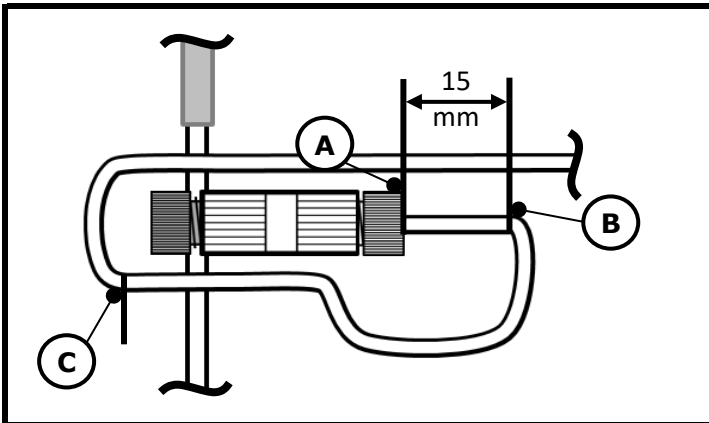
- Remove tap bottom (C) red side from tap body (B).
- Remove the pre cut insulation from correct Accessory wire.
- Insert wire through tap bottom (C) opening.
- Fan out individual wire strands as shown.
- Insert wire into tap body until it bottoms out.
- Turn tap bottom (C) clockwise until finger "tight". Then secure to tap body (B) with another ¼ turn.

APPENDIX A - POSI-TAP PROCEDURE



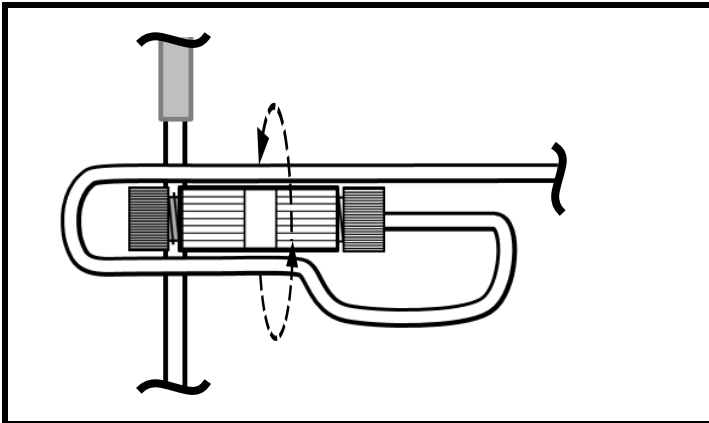
A.5) Installing accessory wire into Posi-Tap™

- Confirm tap bottom gap is straight and evenly spaced around perimeter
- Gently pull on wire to confirm secure connection.



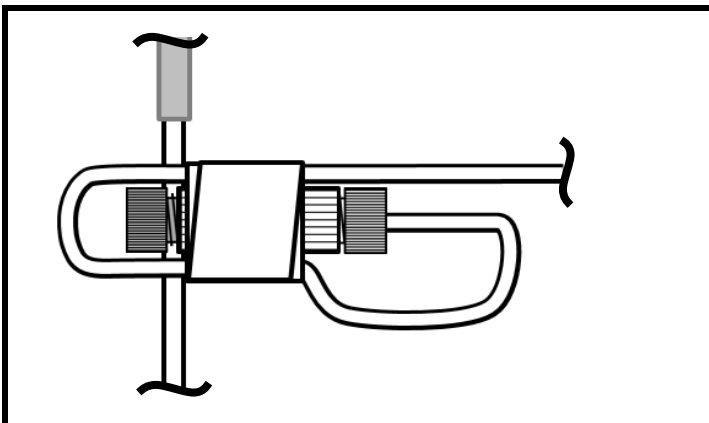
A.6) Accessory wire strain relief

- Measure ≥ 15 mm from point (A).
- Gently form loop at point (B) and bend back up towards Posi-Tap™ (bend radius ≥ 10 mm).
- Gently form loop at point (C) and bend back over top of Posi-Tap™ and down opposite side (bend radius ≥ 10 mm).



A.7) Accessory wire strain relief

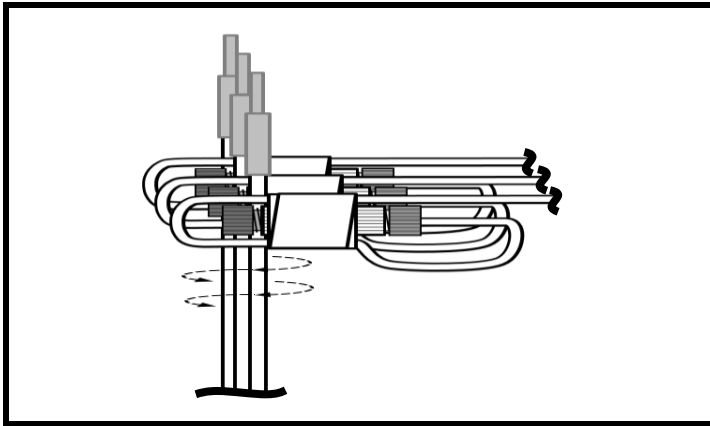
- Secure accessory wire strain relief to tap body with electrical tape (≥ 2 revolutions).
- Once accessory wire strain relief is taped to tap body, it should look as shown.



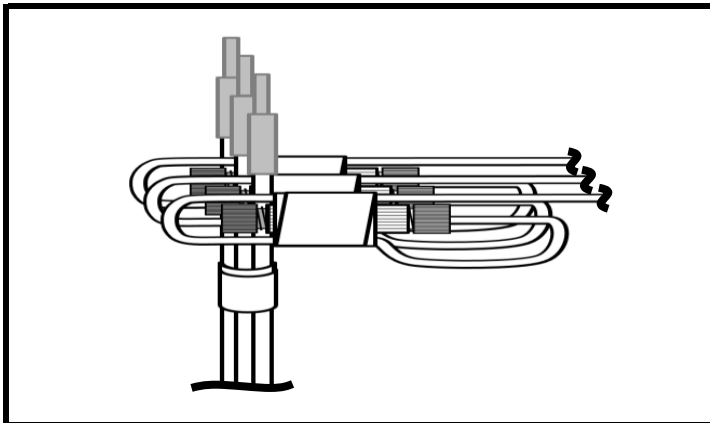
A.8) Installing Posi-Tap™ on ASC (AAA)

- Repeat steps A.1 - A.8 for all other wires requiring Posi-Tap™.

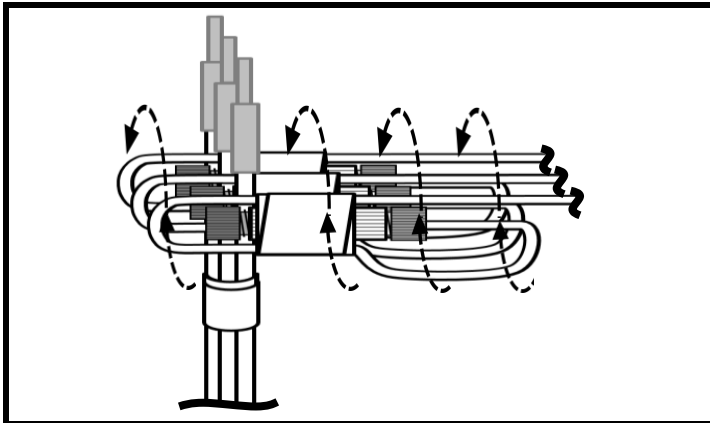
APPENDIX A - POSI-TAP PROCEDURE



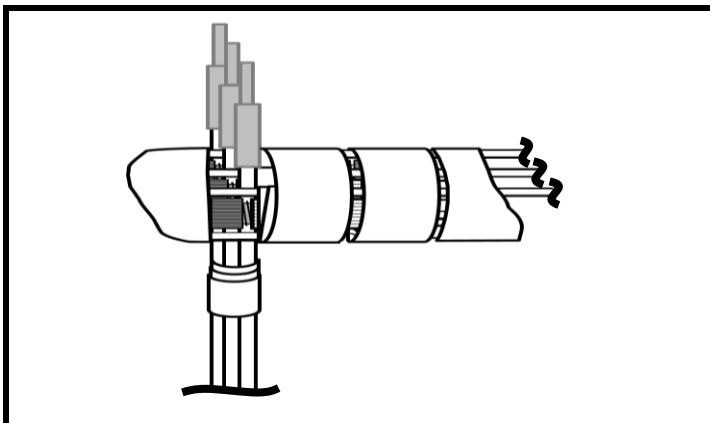
- A.9) Securing multiple Posi-Taps™ together
- Stack Posi-Taps™ in slightly staggered fashion as shown.
 - Secure tapped circuits together with electrical tape (≥ 2 revolutions).



- A.10) Securing multiple Posi-Taps™ together
- Once tapped circuits are secured together with electrical tape they should look as shown.

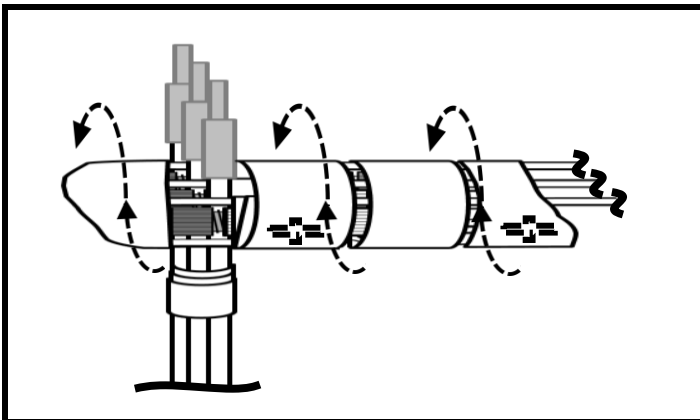


- A.11) Securing multiple Posi-Taps™ together
- Secure Posi-Taps™ together with electrical tape (≥ 4 revolutions).



- A.12) Securing multiple Posi-Taps™ together
- Once Posi-Taps™ are secured together with electrical tape they should look as shown.

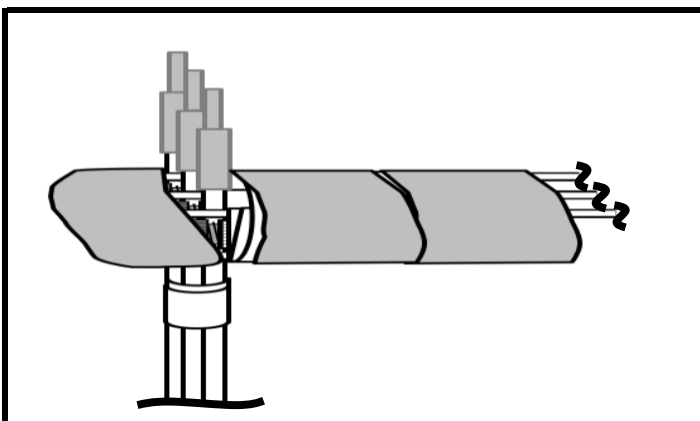
APPENDIX A - POSI-TAP PROCEDURE



A.13) Securing multiple Posi-Taps™ together

- a) To prevent any possible noise or rattle issues, use two pieces of Foam Tape, Gray (H) to wrap pre-taped Posi-Taps™.

Foam Tape (J)

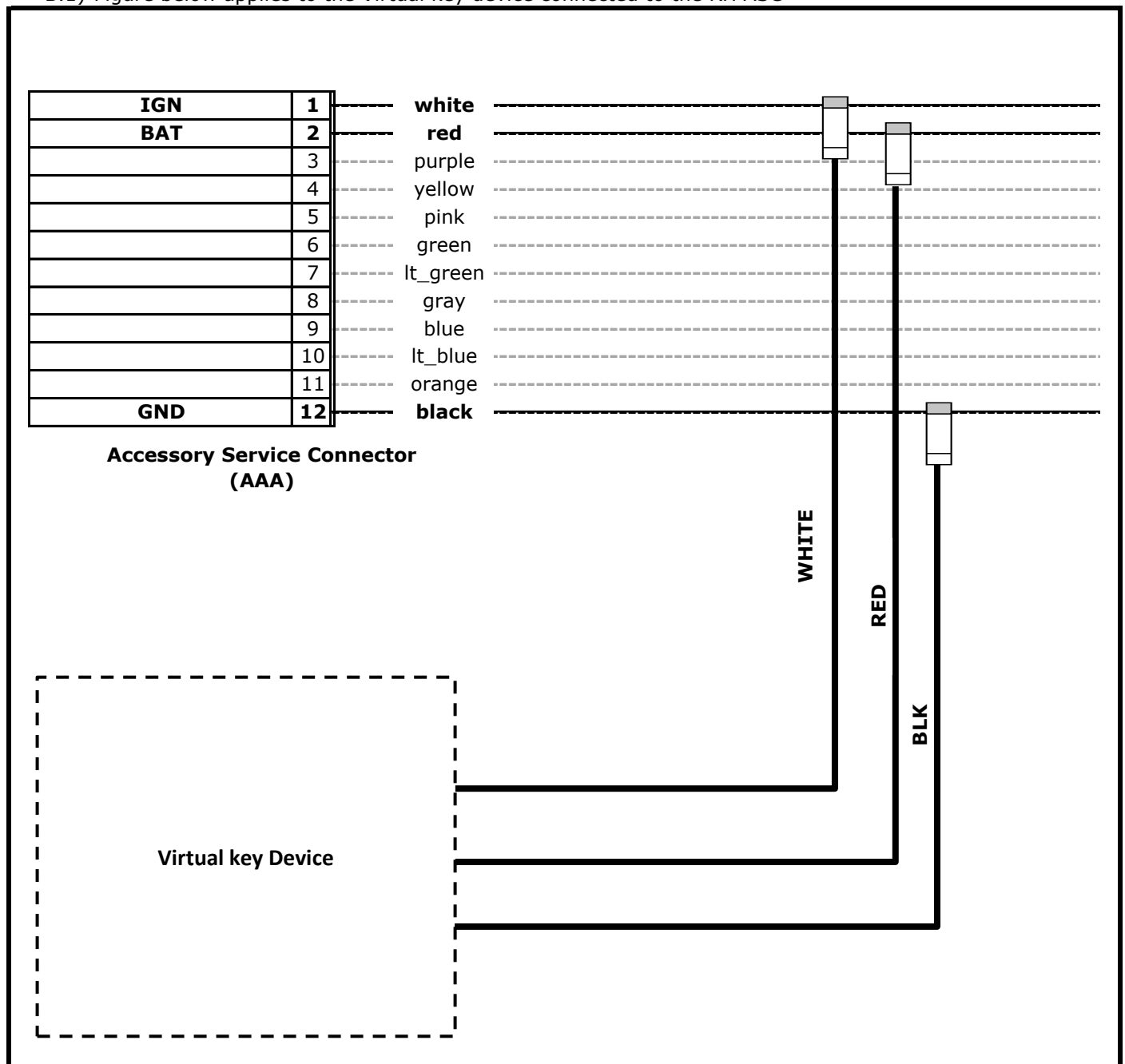




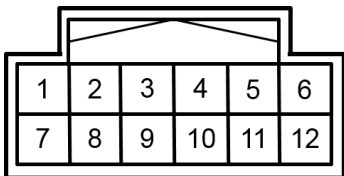
A.14) Securing multiple Posi-Taps™ together

- a) Once wrapped with Foam Tape, taped Posi-Tap™ bundle should look as shown.

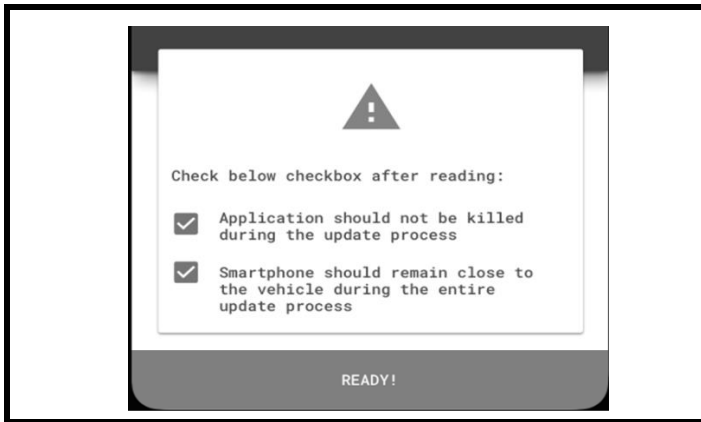
APPENDIX B - MECHANIZATION DRAWING

B.1) Figure below applies to the Virtual key device connected to the RH ASC



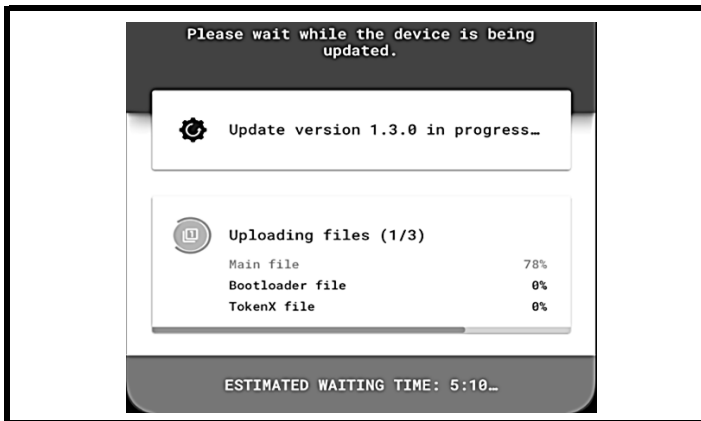
CONNECTOR PN#	T99F6 4RA0A	LEGEND	
CONNECTOR NAME	ACCESSORY SERVICE CONNECTOR	<div data-bbox="873 1591 993 1621">POSI-TAP</div> <div data-bbox="912 1633 961 1789">  </div> <div data-bbox="974 1642 1490 1675">GRAY - CIRCUIT TAP (PIERCE) SIDE</div> <div data-bbox="974 1747 1469 1780">RED - ACCESSORY (INSERT) SIDE</div>	
CONNECTOR COLOR	WHITE		
<div data-bbox="154 1633 289 1768">  </div> <div data-bbox="360 1690 701 1864">  </div>		<div data-bbox="846 1801 1481 1890">Note: Pin location is referenced looking into harness side of connector with lock tab oriented as shown.</div>	

APPENDIX C.1 - FIRMWARE UPDATE - Automatic Process



C1.1) Automatic Upgrade Process

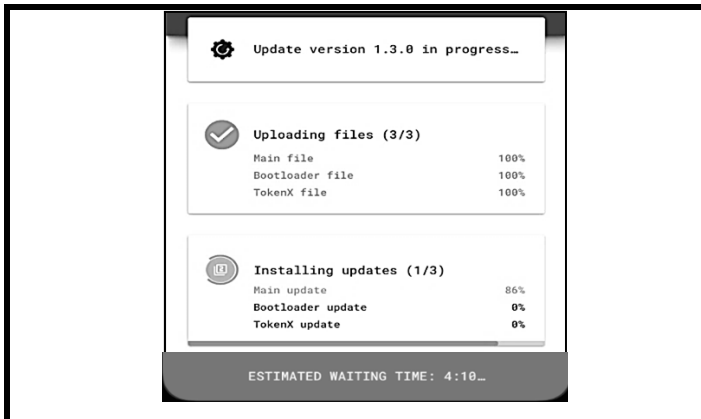
- a) Select both boxes as shown on the left and press Ready



C1.2) Automatic Upgrade Process

- a) Await until uploading process is complete.

Note: Estimated waiting time will be shown at the bottom of the screen.



C1.2) Automatic Upgrade Process

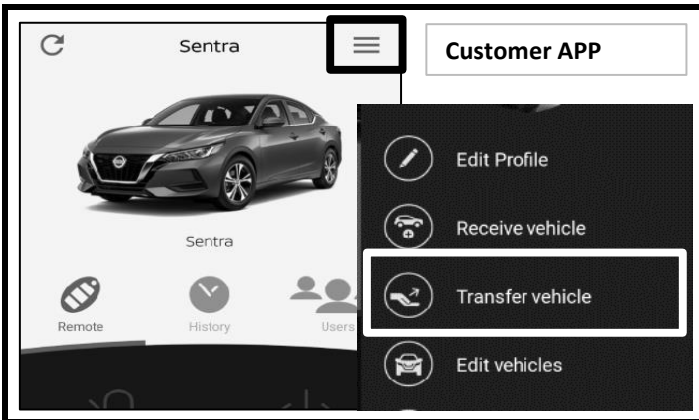
- a) Await until the intallation is complete.
- b) Return to the step 4.13 on Section 4.

Note: Estimated waiting time will be shown at the bottom of the screen.

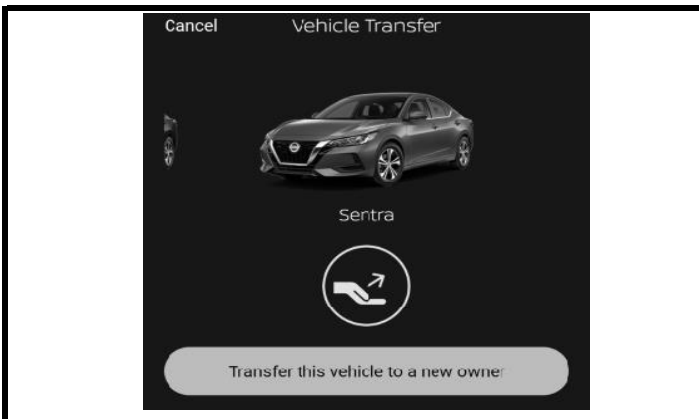
APPENDIX C.2 - FIRMWARE UPDATE - Manual Process

NOTE: THIS SECTION IS ONLY FOR TRANSFER BACK THE VEHICLE TO THE DEALERSHIP SALES ACCOUNT FOR FIRMWARE UPDATE (IF REQUIRED)

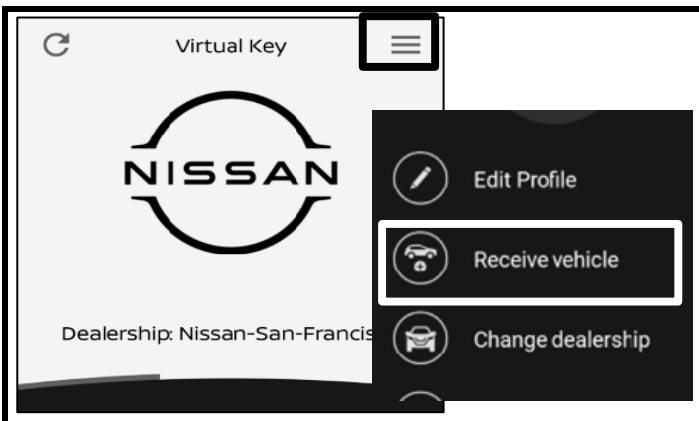
- C2.1) Transfer vehicle back to dealership sales account
- From customer app, go to the setting menu.
 - Select the transfer vehicle option.



- C2.2) Transfer vehicle back to dealership sales account
- Press the transfer this vehicle to someone else button.



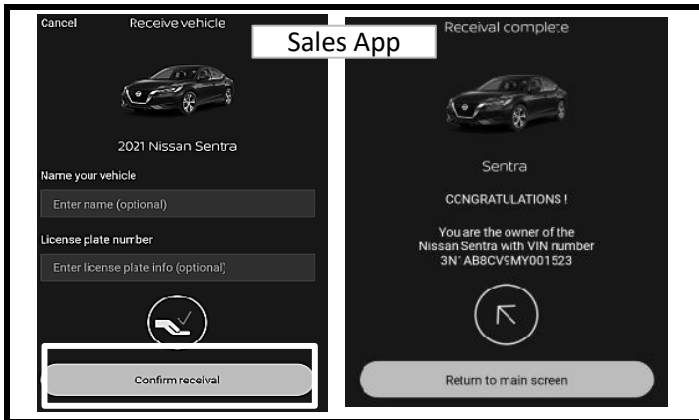
- C2.3) Transfer vehicle back to dealership sales account
- From the sales app, go to the settings menu.
 - Select the receive vehicle option.



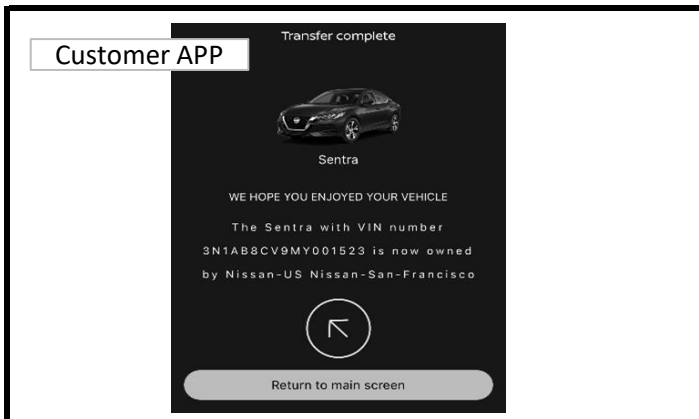
- C2.4) Transfer vehicle back to dealership sales account
- Scan QR code from customer phone.



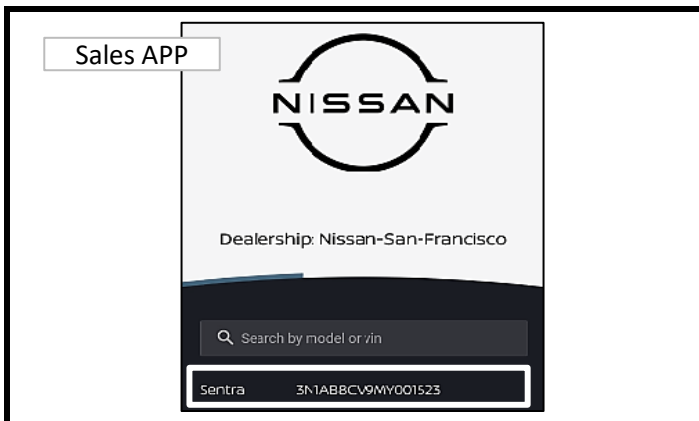
APPENDIX C - FIRMWARE UPDATE



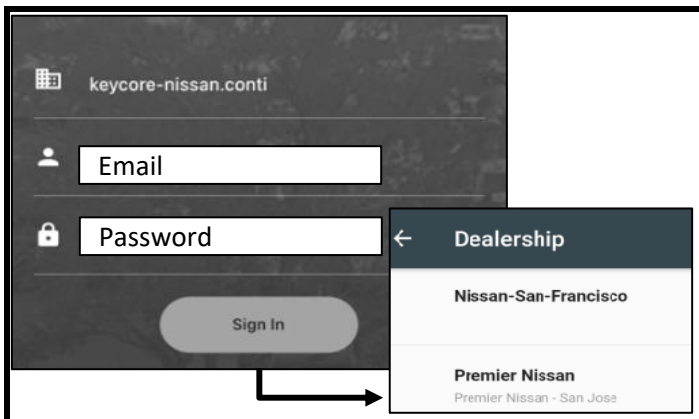
- C2.5) Transfer vehicle back to dealership sales account
- Confirm the name and license plate number of the vehicle and hit the confirm receipt button.
 - From sales app return to the main screen.



- C2.6) Transfer vehicle back to dealership sales account
- From customer app return to the main screen.



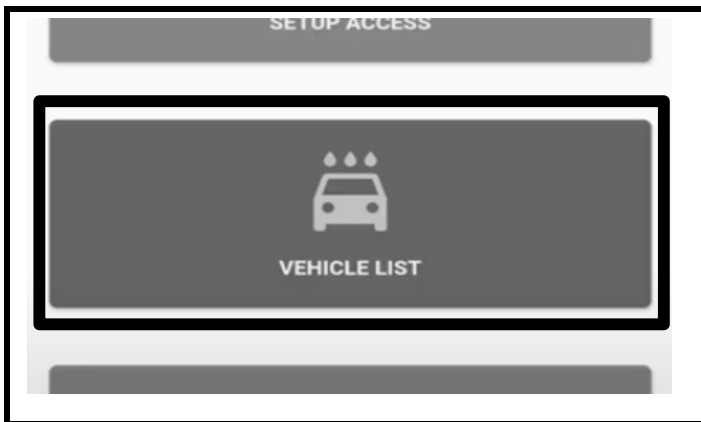
- C2.7) Transfer vehicle back to dealership sales account
- From the Sales account confirmed the VIN it's on the main screen of the app.



- C2.8) Firmware Update - KaaS Admin App
- Login in to KaaS Admin tool using dealer provided credentials and select your dealership to continue.

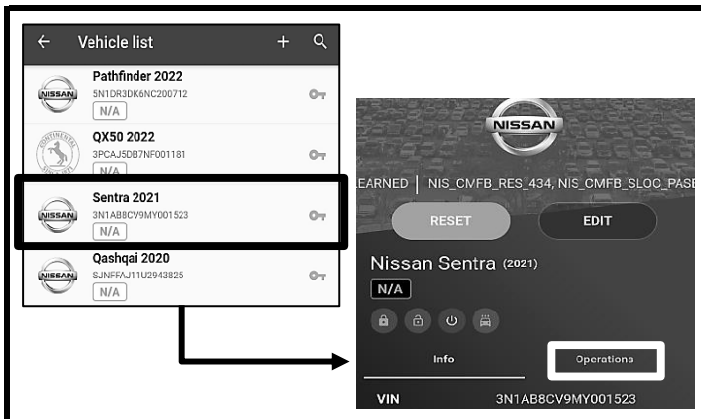
Note: make sure Sales and KaaS accounts are under the same dealership

APPENDIX C - FIRMWARE UPDATE



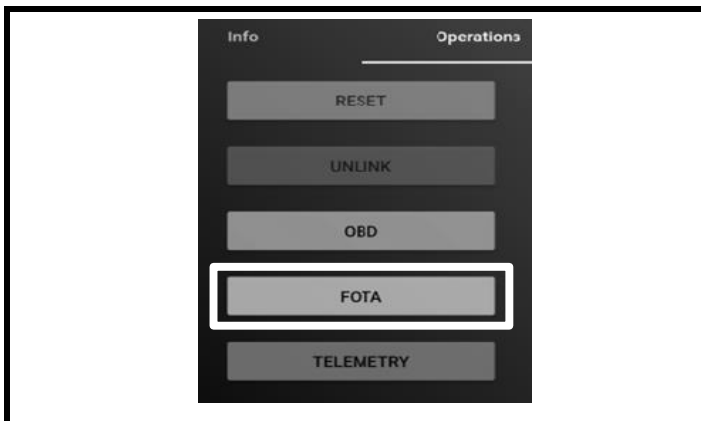
C2.9) Firmware Update - KaaS Admin App

- a) Select vehicle list, as shown on left.



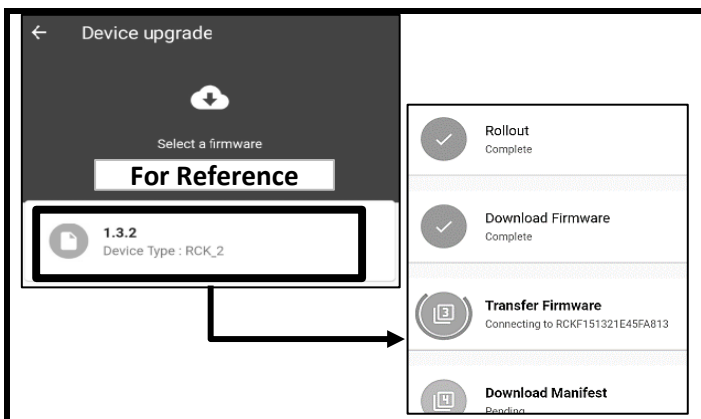
C2.10) Firmware Update - KaaS Admin App

- a) Stay inside the vehicle and don't leave until the process is complete.
- b) Enter vehicle name in the search box.
- c) Select correct vehicle from list, by matching with vehicle VIN to the VIN displayed in Kaas Admin tool app.
- d) Select the Operations option



C2.11) Firmware Update - KaaS Admin App

- a) Under Operation, select FOTA as shown on left.



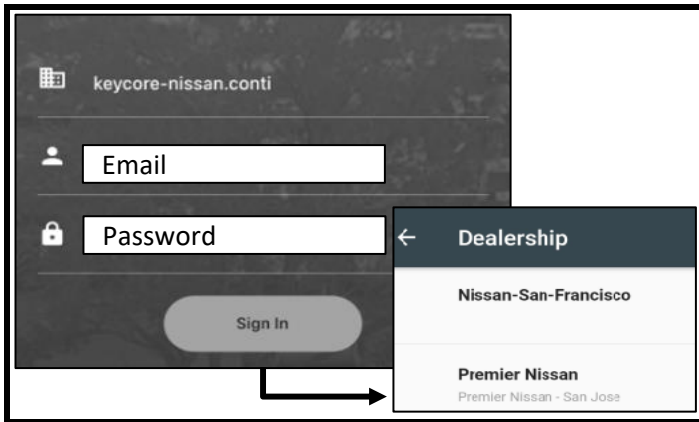
C2.12) Firmware Update Complete - KaaS Admin App

- a) Select Firmware package and wait until update it's complete.
- b) Once package is installed, you can move away from the car and close the KaaS app.
- c) Go to Step 5.1 on Section 5 to complete the installation procedure.
- d) For servicing process, transfer the vehicle back to the customer, go to the steps 6.4 - 6.11 on section 6.

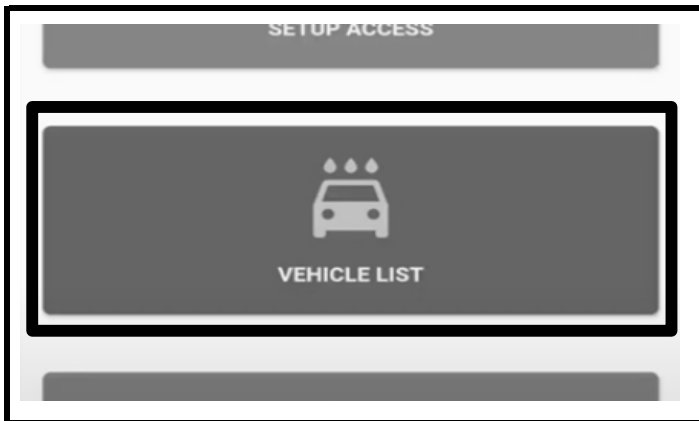
APPENDIX D - REPROGRAMMING PROCEDURE (ONLY IF REPROGRAMMING VIRTUAL KEY TO VEHICLE)

NOTE: THIS SECTION IS ONLY FOR REPROGRAMMING VIRTUAL KEY TO VEHICLE.

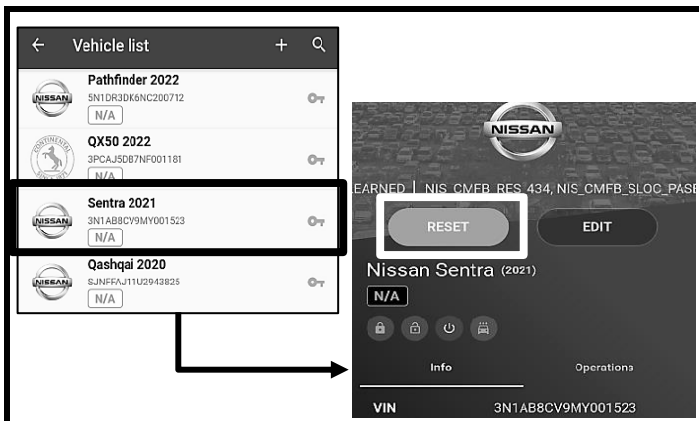
- C.1) Reprogram Virtual key to Vehicle
- Login in to KaaS Admin tool using dealer provided credentials and select your dealership to continue.



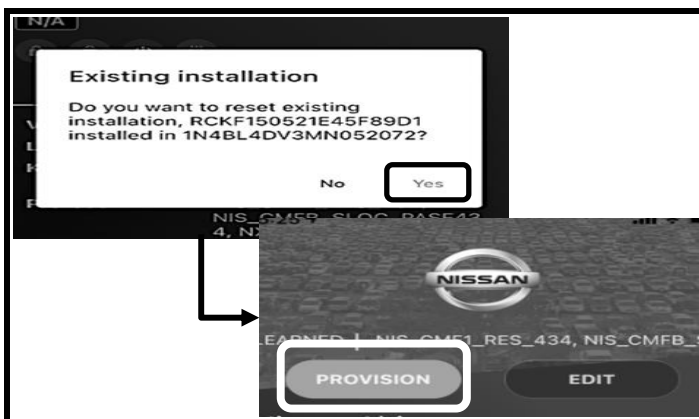
- C.2) Reprogram Virtual key to Vehicle
- If vehicle already has virtual key and need to be reprogrammed, select vehicle list, as shown on left.



- C.3) Reprogram Virtual key to Vehicle
- Enter vehicle name in the search box.
 - Select correct vehicle from list by matching with vehicle VIN to the VIN displayed in Kaas Admin tool app.
- b) On the next screen, press the Reset button.



- C.4) Reprogram Virtual key to Vehicle
- Select yes to reset the existing installation.
 - On the next screen, press the Provision button.



APPENDIX D - REPROGRAMMING PROCEDURE (ONLY IF REPROGRAMMING VIRTUAL KEY TO VEHICLE)

Does the key fob have a remote engine start button?

YES

NO

- C.5) Reprogram Virtual key to Vehicle
- Select appropriate answer, for each question.
 - Does key fob have remote engine start?

Does the key fob have a power liftgate button?

No

Yes

- C.6) Reprogram Virtual key to Vehicle
- Select appropriate answer for each question.
 - Does key fob have a power liftgate button?
 - If no was selected proceed to next step, otherwise go to step 5.10

NOTE: Power Liftgate are only found in SUV. Sedans and Trucks do not have power lift gate button.

Does the key fob have a trunk release button?

No

Yes

- C.7) Reprogram Virtual key to Vehicle
- Select appropriate answer, for each question.
 - Does the key fob have a trunk release button?

Power up the device

Make : Nissan
Model : Pathfinder
Year : 2016
VIN : 12345678901233457

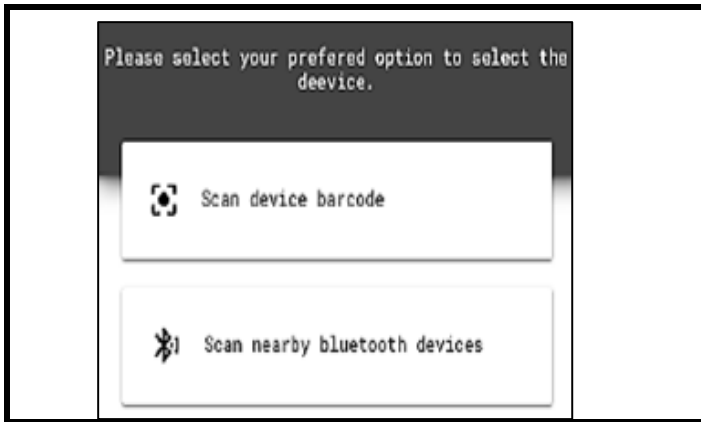
Check below checkbox after completion :

☒ Device correctly powered

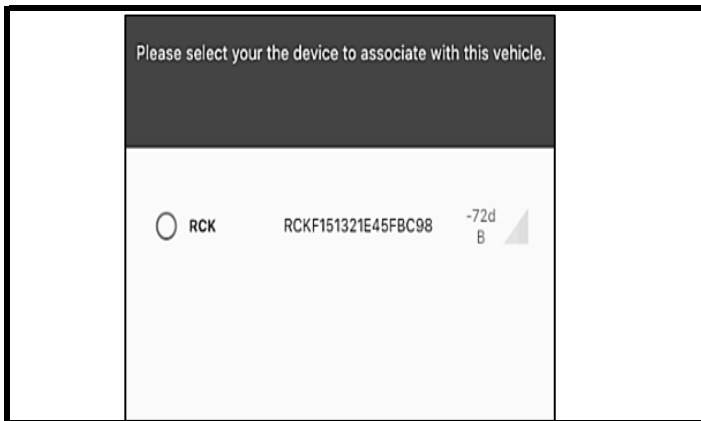
READY!

- C.8) Reprogram Virtual key to Vehicle
- Confirm Virtual key device is properly connected
 - Press ready.

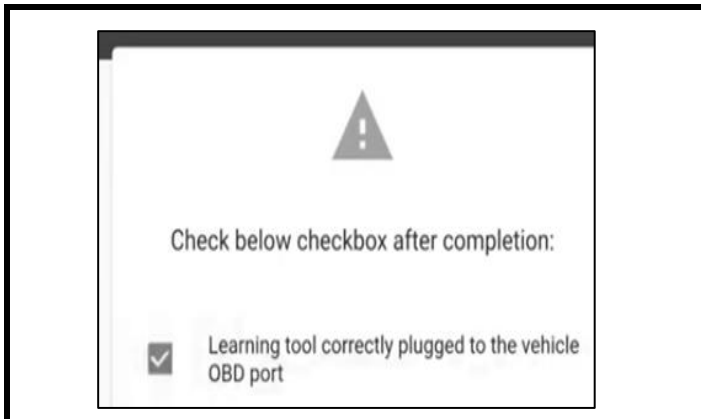
APPENDIX D - REPROGRAMMING PROCEDURE (ONLY IF REPROGRAMMING VIRTUAL KEY TO VEHICLE)



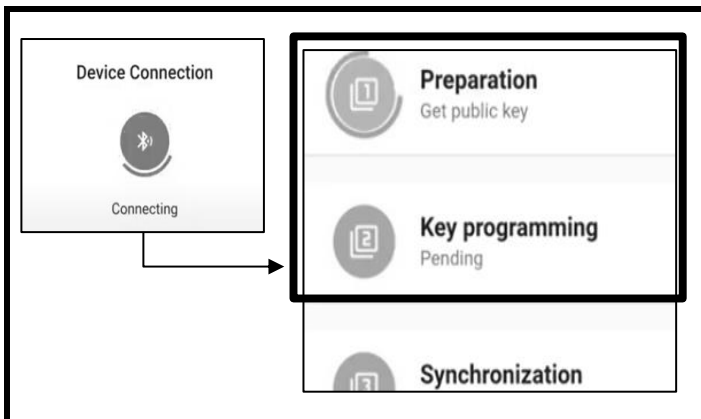
- C.9) Reprogram Virtual key to Vehicle
- Select either scan device barcode or scan nearby bluetooth devices.
 - If scan device barcode was selected, scan the barcode on virtual key device using the tablet's camera. Go to step C.13
 - If scan nearby bluetooth devices was selected, proceed to next step.



- C.10) Reprogram Virtual key to Vehicle
- Select the correct virtual key device, by matching the Bluetooth signal name with virtual key device number.



- C.11) Reprogram Virtual key to Vehicle
- Confirm the consult tool is correctly plugged in, select the checkbox and press ready.



- C.12) Reprogram Virtual key to Vehicle
- Wait for device to finish configuration.
 - KaaS admin app will automatically go thru preparation and key programming.

APPENDIX D - REPROGRAMMING PROCEDURE (ONLY IF REPROGRAMMING VIRTUAL KEY TO VEHICLE)

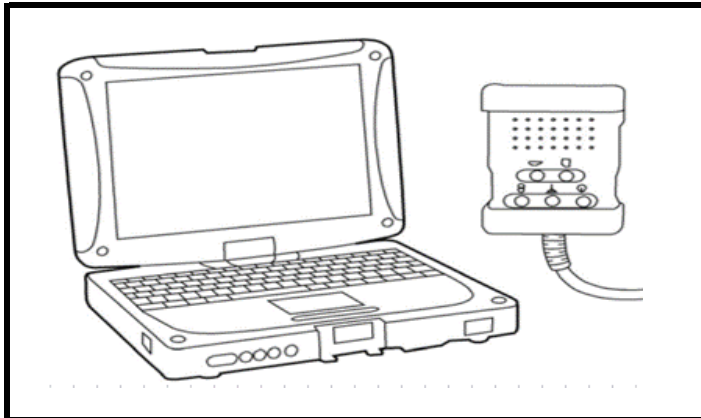


- C.13) Reprogram Virtual key to Vehicle
- STOP proceed to key programming with consult tool.
 - DO NOT PRESS DONE.**
 - Proceed to next step.



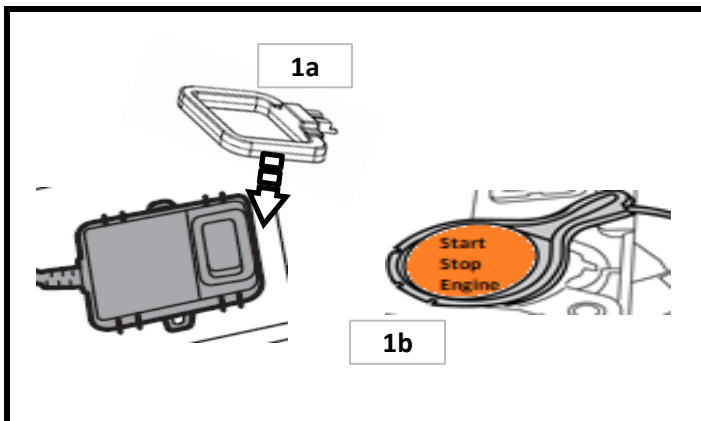
CAUTION

DO NOT PRESS DONE, UNTIL VIRTUAL KEY DEVICE HAS BEEN REGISTERED, AS A THIRD KEY FOB.

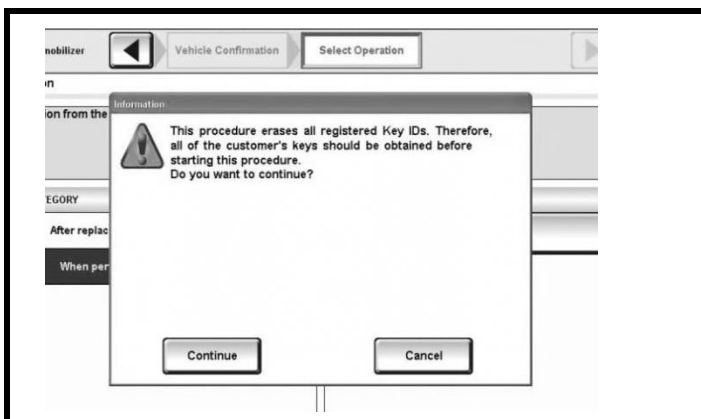


- C.14) Virtual key programming instructions.
- Press and hold Start Button for at least 2 seconds without depressing brake to put vehicle in Key On / Engine Off.
 - Connect CONSULT III plus tool to vehicle OBD connector as shown.
 - Turn on hazard switch to prevent BCM from entering into CAN communication sleep mode.

Follow the CONSULT III plus prompts as shown on steps 4.20 - 4.31.

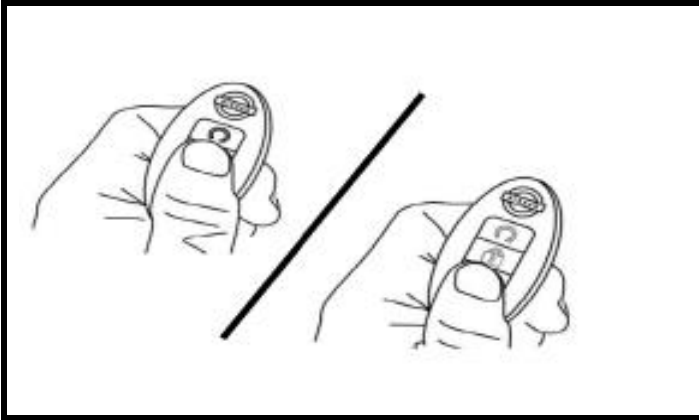


- C.15) Virtual key reprogramming instructions.
- Connect pick up coil harness (BBB) to the air
 - Attach air coil (CCC) to the virtual key device, as shown in Fig 1a.
 - Hold the pick up coil (BBB) near the IGN SW button as shown in Fig 1b, to reprogram



- C.16) Virtual key programming instructions.
- Follow the CONSULT III plus prompts as

APPENDIX D - REPROGRAMMING PROCEDURE (ONLY IF REPROGRAMMING VIRTUAL KEY TO VEHICLE)



C.17) Virtual key programming instructions.

- a) From inside the vehicle, press Lock on Fob 1 and Unlock on virtual key app, confirm that vehicle responds accordingly as shown.
- b) From inside the vehicle, press Lock on virtual key app and Unlock on Fob 2, confirm that vehicle responds accordingly as shown.

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