



GENUINE PARTS

INSTALLATION INSTRUCTIONS

DESCRIPTION: Remote Engine Start

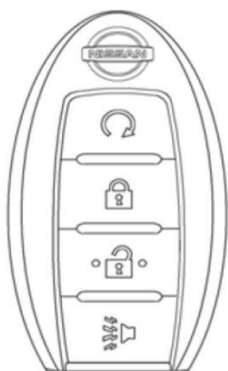
APPLICATION: Frontier

PART NUMBER(S): T99K1 9BU0A (Remote Engine Start Kit)


**REQUIRED FOR
INSTALLATION:**

KIT CONTENTS:


A



B

**Important: Read Before Installation!**

Dealer Installation Recommended.

 **WARNING**

- To avoid serious personal injury or property damage, obtain Installation Instructions before attempting to install this accessory. The Installation Instructions provide the necessary procedures for a safe installation.

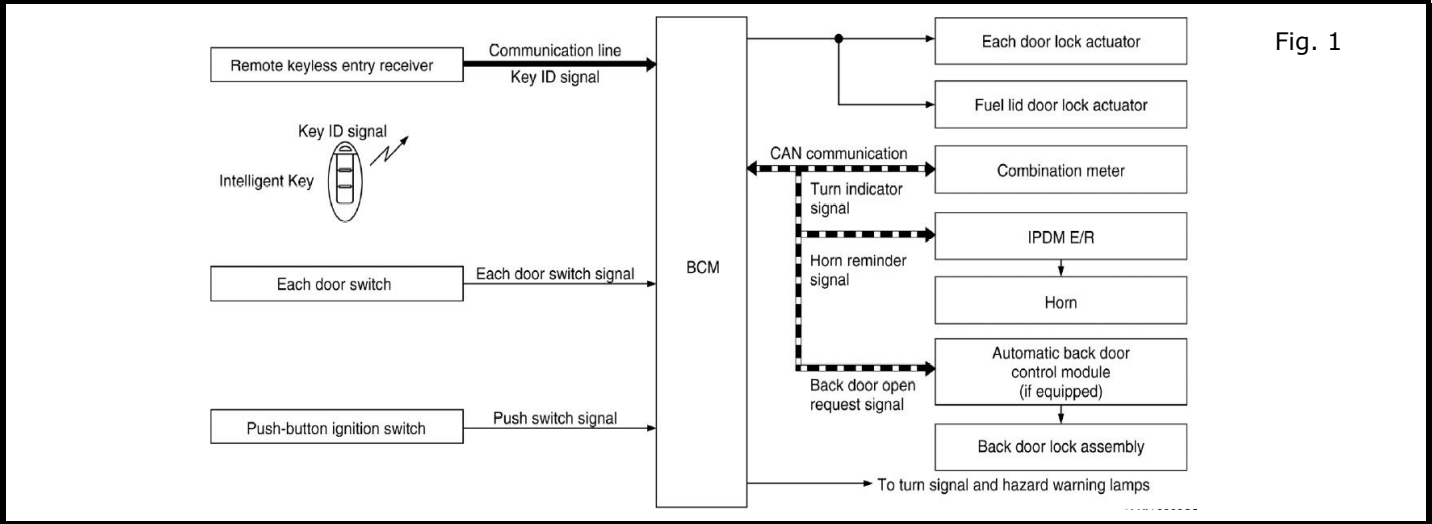
CUSTOMER INTERNET DOWNLOAD INSTRUCTIONS:
Customers can obtain Installation Instructions for Infiniti or Nissan vehicles at www.Infiniti-Techno.com or www.Nissan-Techno.com respectively. From the home page, select Accessory Instructions. Select your Model, Model Year, and Accessory Type or search for your Model, and or Model Year, and or Accessory Type including Keyword or Part Number, then locate the Instructions for your accessory.

DEALER ASSIST DOWNLOAD INSTRUCTIONS:
Dealership technicians can locate the Installation Instructions for this accessory by scrolling to and select, 'Acc. Install Instructions' tab. Always download and use latest version of the Installation Instructions.

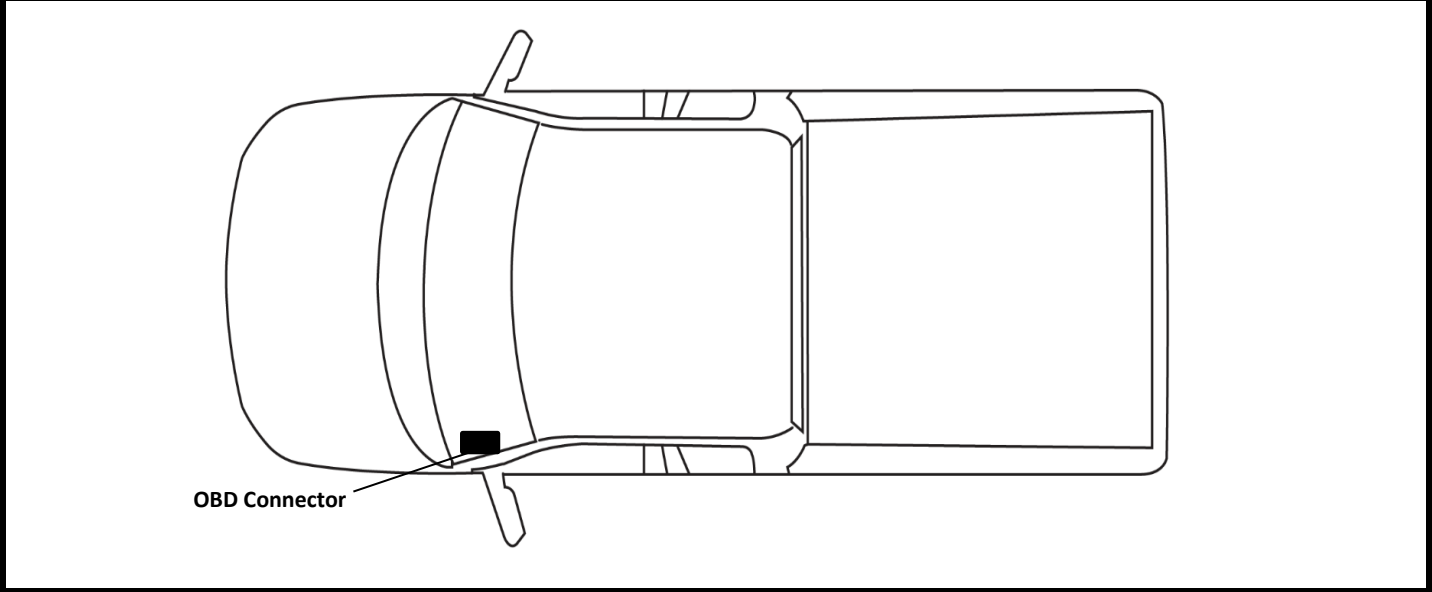
Installation Instructions Replacement Template 999V2 AW000 Rev. 07/12/15

SECTION 1 - OVERVIEW

1.1) SYSTEM



1.2) VEHICLE



PART NUMBER(S) T99K1 9BU0A (Remote Engine Start Kit)

**REQUIRED FOR
INSTALLATION:**

KIT CONTENTS:

[illegible]

TOOLS REQUIRED:

- CONSULT III plus
- Approved access to Immobilizer PIN

INSTALLATION CAUTIONS:



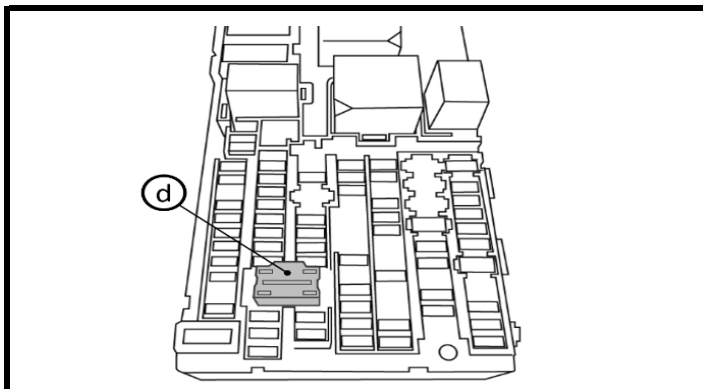
CAUTION

- Do not allow the Intelligent Key, which contains electrical components, to come into contact with water. This could severely affect system function. If the Intelligent Key gets wet, immediately wipe moisture from I-Key until completely dry.
- Do not drop the Intelligent Key.
- Do not strike the Intelligent Key sharply against another object.
- Do not change or modify the Intelligent Key.
- Do not place the Intelligent Key in an area where temperatures exceed 140°F (60°C) for any extended period of time.
- Do not attach the Intelligent Key with a key holder that contains a magnet.
- Take care not to scratch or damage any component during the installation process.
- Always follow the sequence of steps as they are shown, improper procedure can damage parts and/or systems.
- Be sure all key fobs for this vehicle have been acquired before proceeding.
- Avoid all other sources of frequency interference such as cell phones, walkie-talkies, radios, etc.
- Do not stop or disconnect CONSULT III plus or VI until after the process has been completed.
- Dispose of old (original) key fobs once the RES installation process has been completed. DO NOT use fobs again and DO NOT return to customer.

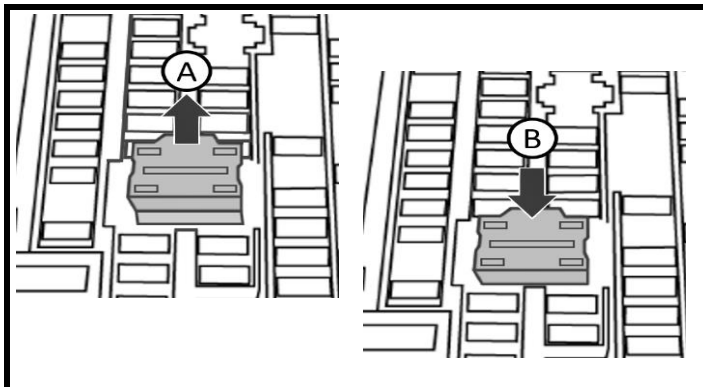


CAUTION

- 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 a 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.

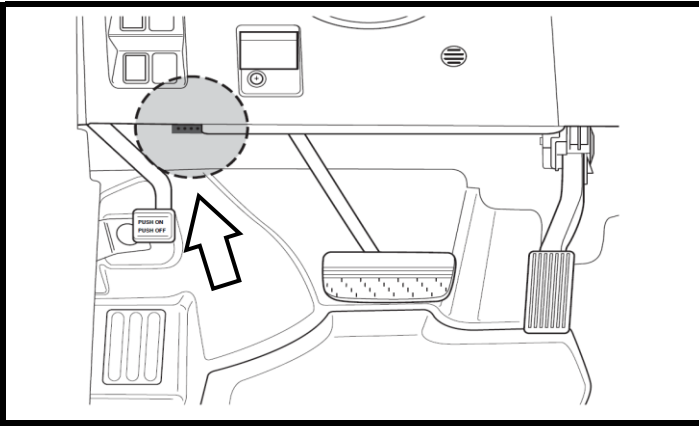
Condition	Switch Position	Note
Vehicle is delivered to the dealer	Transit (OUT)	
Vehicle is being stored at the dealer	Transit (OUT)	
Vehicle is delivered to customer	Customer (IN)	

- 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

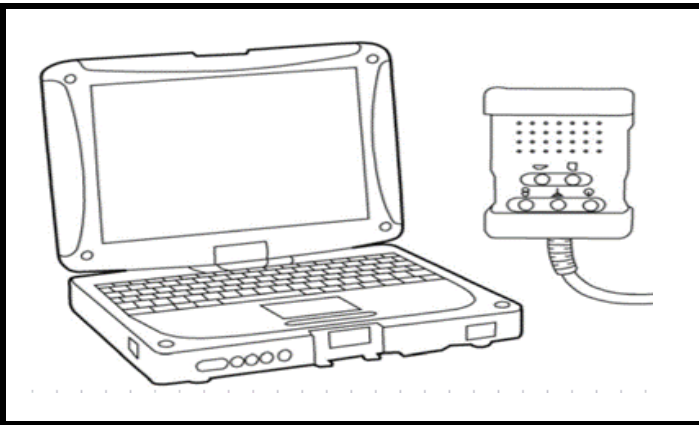
- Place ignition in "OFF" mode.

SECTION 3 - INSTALLATION PROCEDURE: REMOTE ENGINE STARTER



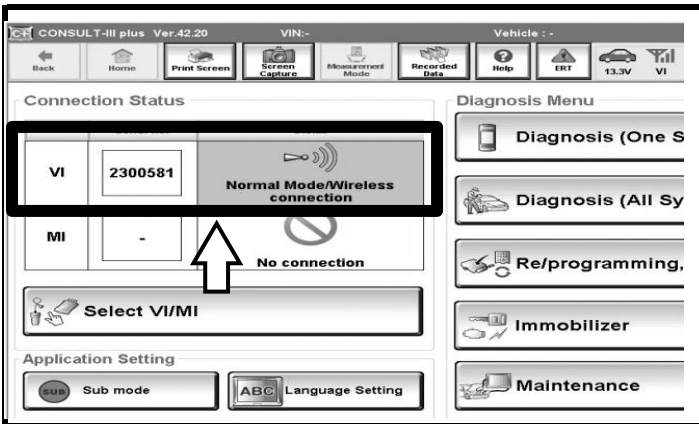
3.13) Locating the connector.

- a) Locate OBD Connector next to hood lock control, under LH side of instrument lower panel LH as shown.



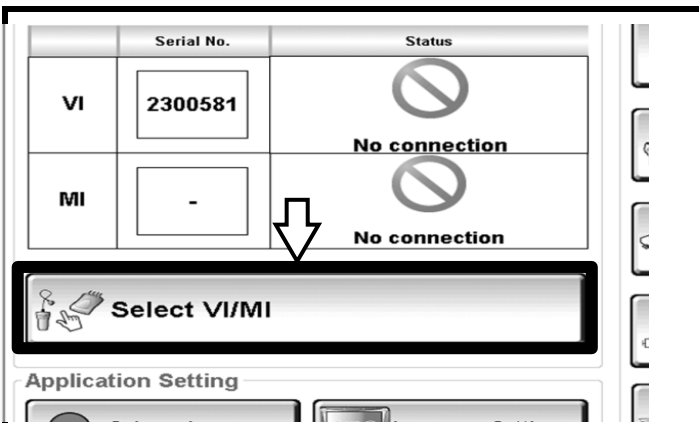
3.14) Connecting to the vehicle.

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



3.15) RES key fob programming instructions.

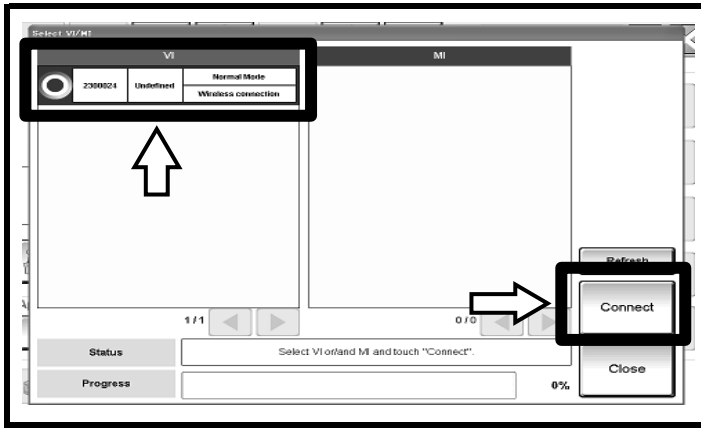
- a) Start CONSULT III plus. Make sure VI is connected. VI serial number will appear in VI section and VI status will change to "Normal Mode" (green color) as shown.
- b) If VI is connected to vehicle go to step 3.8 and continue the installation. If VI is not connected proceed to step 3.20.



3.16) RES key fob programming instructions.

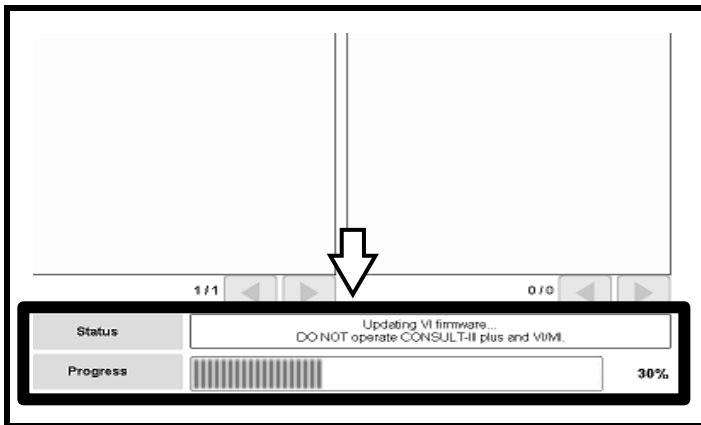
- a) If VI has not connected to vehicle, click "Select VI/MI" button to connect with vehicle as shown.

SECTION 3 - INSTALLATION PROCEDURE: REMOTE ENGINE STARTER



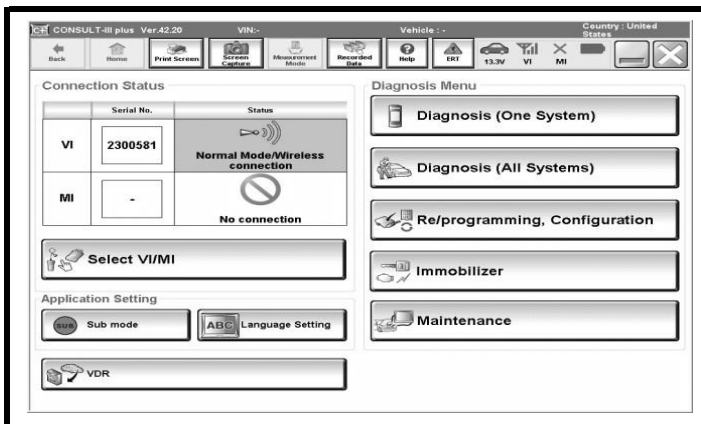
3.17) RES key fob programming instructions.

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



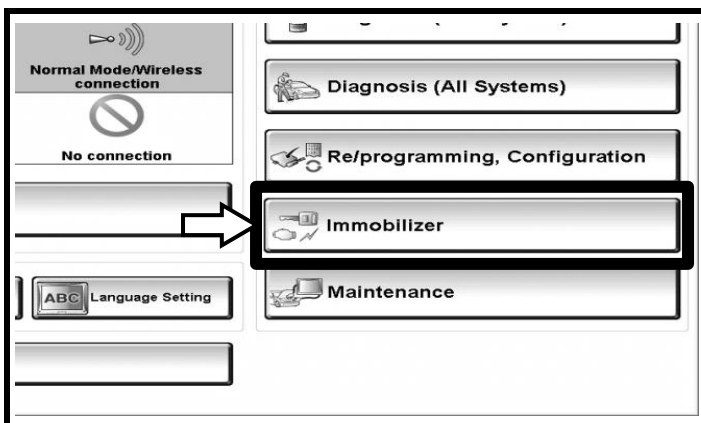
3.18) RES key fob programming instructions.

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



3.19) RES key fob programming instructions.

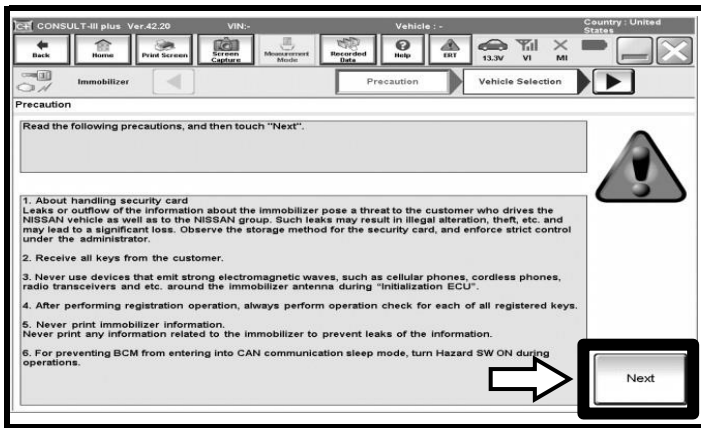
- a) CONSULT III plus will change to the home screen automatically when the procedure is complete and VI-2 is connected to Bluetooth as shown.
- b) Proceed to next step to continue with installation.



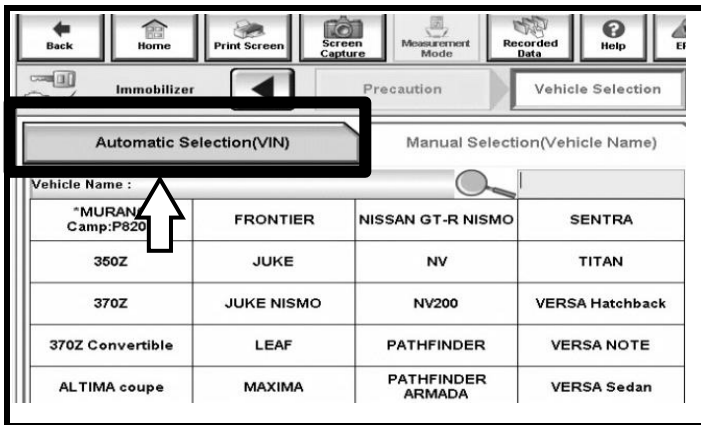
3.20) RES key fob programming instructions.

- a) Click "Immobilizer" as shown.
- a) Wait for systems diagnosis process to complete.

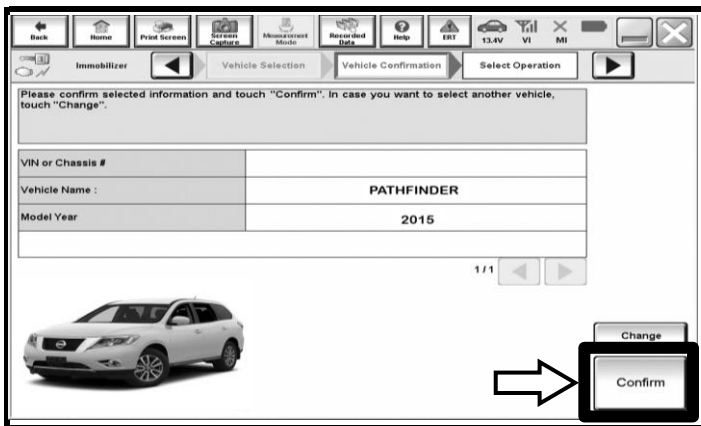
SECTION 3 - INSTALLATION PROCEDURE: REMOTE ENGINE STARTER



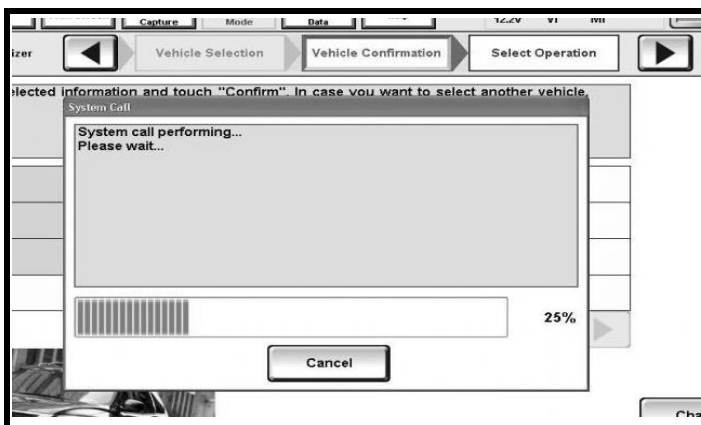
- 3.21) RES key fob programming instructions.
- a) A precaution screen will appear.
 - b) After you have finished reading all the precautions, click "Next" as shown.



- 3.22) RES key fob programming instructions.
- a) Click "Automatic Selection" as shown.

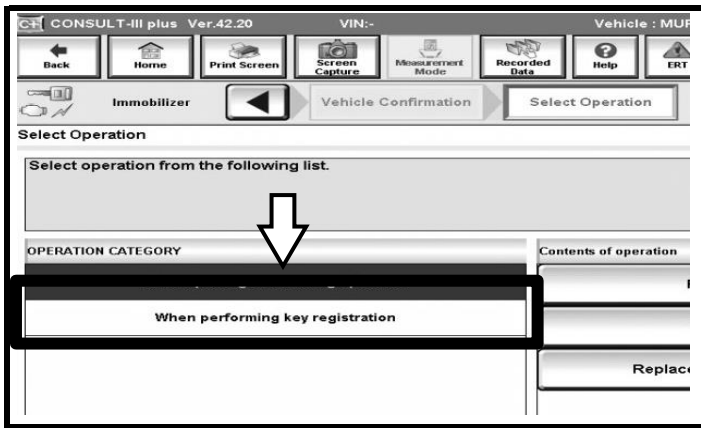


- 3.11) RES key fob programming instructions.
- a) Review the information on the confirmation screen. If correct, click "confirm" as shown.



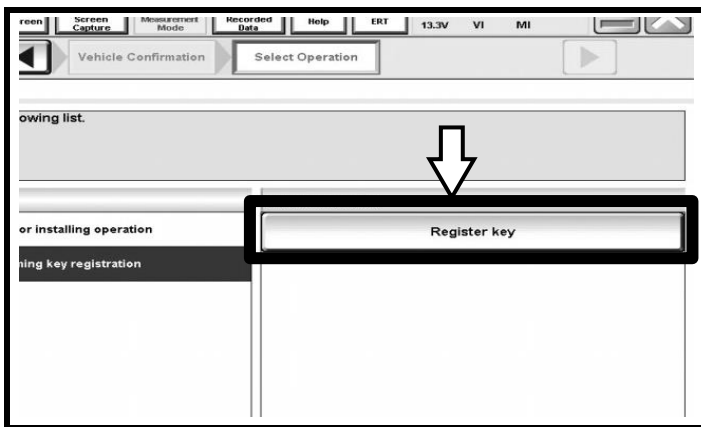
- 3.12) RES key fob programming instructions.
- a) Once you click "Confirm," you will see a system call menu as shown.

SECTION 3 - INSTALLATION PROCEDURE: REMOTE ENGINE STARTER



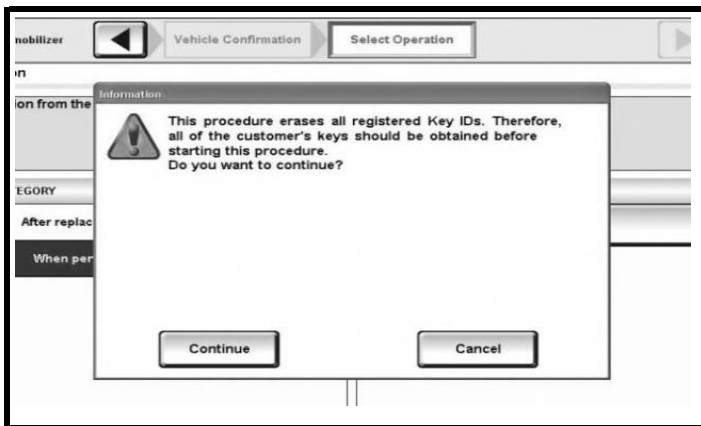
3.13) RES key fob programming instructions.

- 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.



3.14) RES key fob 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.



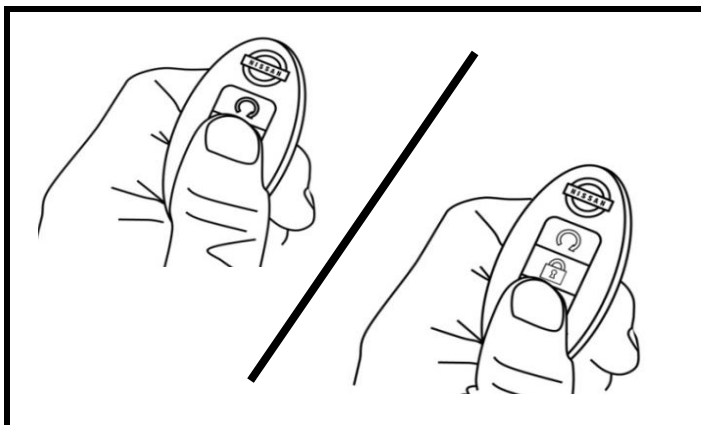
3.15) RES key fob programming instructions.

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



CAUTION

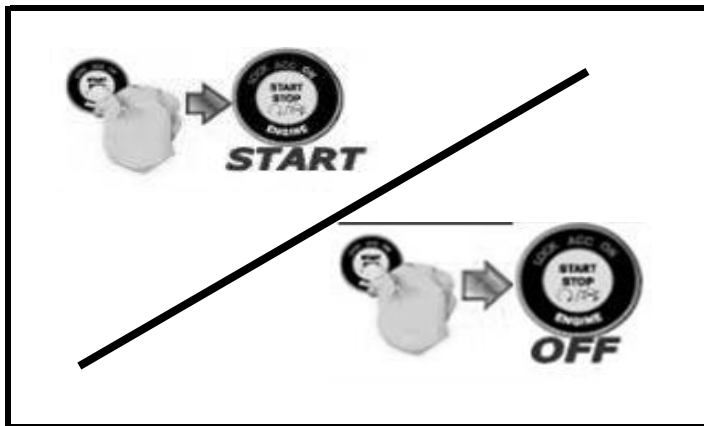
- **Do Not** proceed to Step 3.16 until the key registry process has been completed.



3.16) New RES key fob confirmation.

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

SECTION 3 - INSTALLATION PROCEDURE: REMOTE ENGINE STARTER

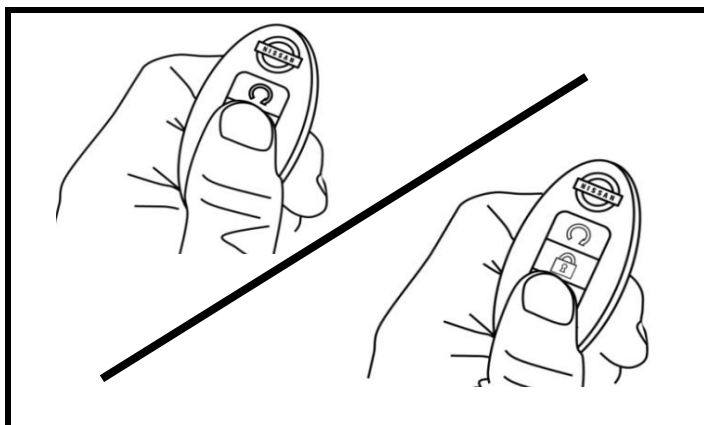


3.17) New RES key fob confirmation.

- a) Press and hold push button ignition switch while depressing brake to confirm vehicle starts as shown.
- b) Press push button ignition switch and turn ignition switch to OFF position as shown.

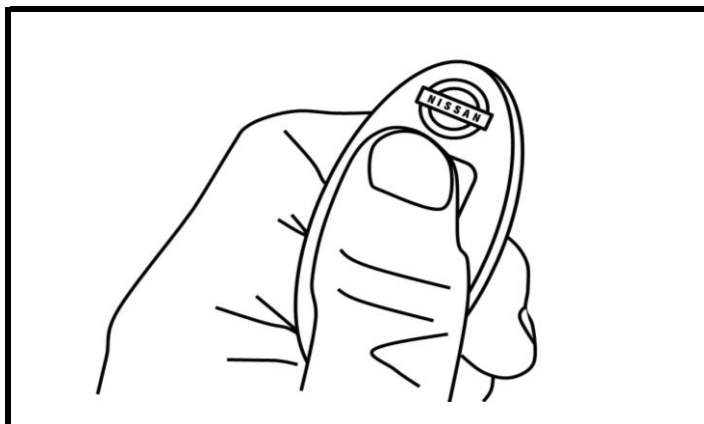
⚠ CAUTION

- Remove all key fobs from the vehicle before proceeding to the next step.



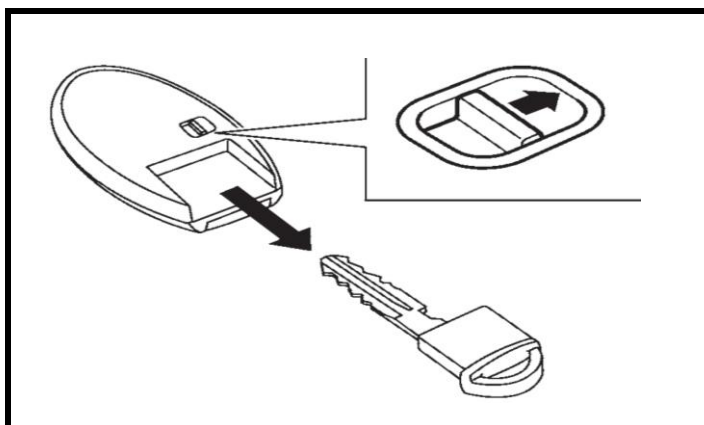
3.18) New RES key fob confirmation.

- a) From outside the vehicle press Lock on Fob 1 and Unlock on Fob 2 and confirm the vehicle responds accordingly as shown in.
- b) From outside the vehicle press Lock on Fob 2 and Unlock on Fob 1 and confirm the vehicle responds accordingly as shown.



3.19) Disposing original key fobs.

- a) Press and hold the RES button within five (5) seconds of pressing the LOCK button until the turn signal lights turn ON, then release to confirm vehicle starts as shown.
- b) Press and release RES button a second time to stop vehicle.
- c) Lock vehicle and repeat sequence with second RES key fob.

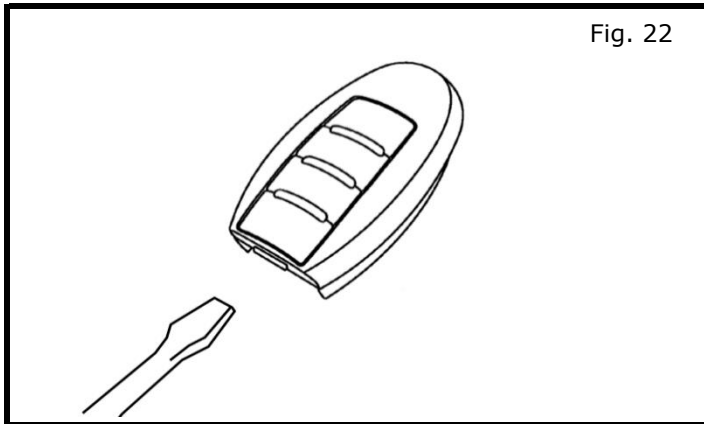


3.20) Disposing of original key fobs.

- a) Before disposing of old fobs, remove the key by turning the fob over and sliding button to right as shown.

SECTION 3 - INSTALLATION PROCEDURE: REMOTE ENGINE STARTER

Fig. 22

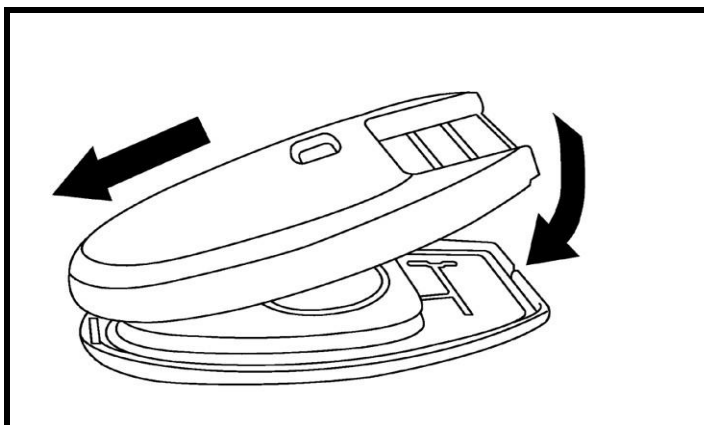


3.21) Disposing of old key fobs.

- a) Insert a small flathead screwdriver into bottom of old fob and gently pry apart as shown in Fig. 22.

3.22) Disposing of old key fobs.

- a) Separate front and back halves as shown.
- b) Remove battery from back half of key fob.

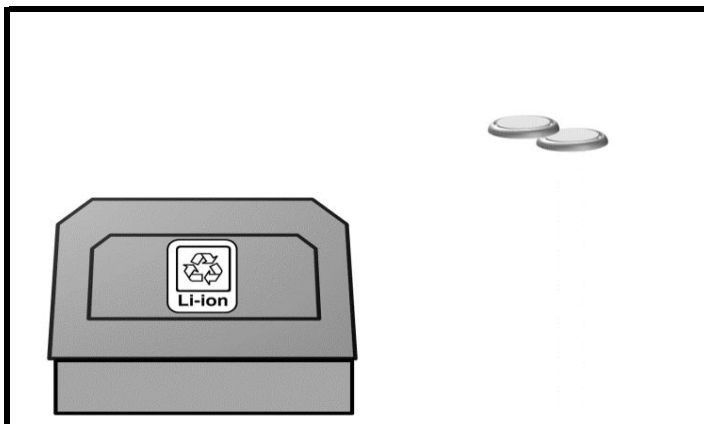


CAUTION

- **Dispose of batteries in a proper recycling receptacle, not a trash can.**

3.23) Disposing of old key fobs.

- a) Dispose of batteries appropriately as shown.

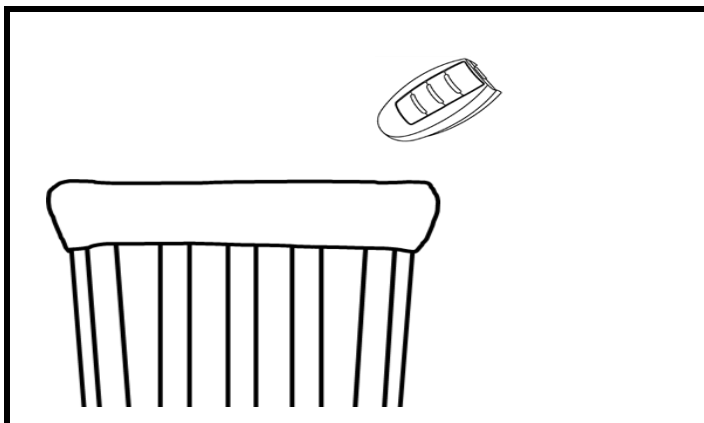


3.24) Disposing of old key fobs.

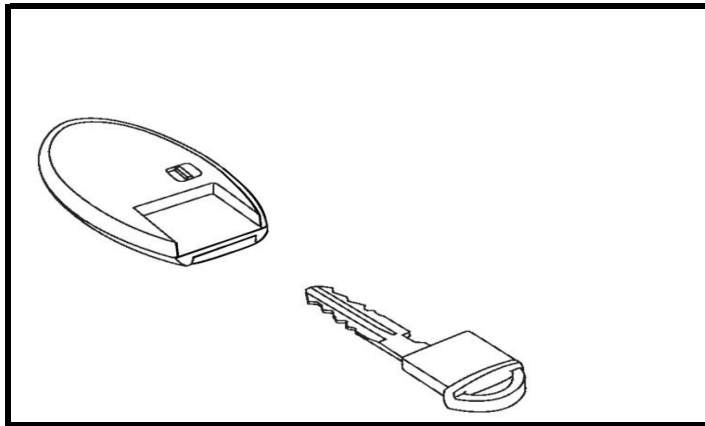
- a) Dispose of key fobs as shown.

CAUTION

- **Be sure the batteries have been removed from All old key fobs before disposing of them.**



SECTION 3 - INSTALLATION PROCEDURE: REMOTE ENGINE STARTER



3.25) Disposing of old key fobs.

a) Insert keys into the new RES fobs as shown.

4.1) Complete checklist.



Refer to the vehicle service manual for more information.

- ☐ Verify interior and exterior is not damaged.
- ☐ Turn ignition to the "ON" mode to confirm proper operation of vehicle systems:
 - ☐ There are no new Diagnostic Trouble Codes.
 - ☐ Verify all windows and sunroof (if equipped) one touch operation and perform the reset procedure if necessary. Refer to the vehicle service manual for more details.
 - ☐ Tail Lamp - Turn on headlamps. Open glove box and confirm light turns on.
 - ☐ Confirm proper audio function (AM, FM, SAT, CD, and AUX).
 - ☐ Re-program radio presets and other vehicle settings to the recorded settings if necessary.
- ☐ Confirm RES function.
 - ☐ Turn IGN ON.
 - ☐ Turn IGN OFF.
 - ☐ Exit vehicle and close all doors (make sure the hood is closed).
 - ☐ Lock the vehicle with the remote.
 - ☐ Within five (5) seconds, press and hold the RES button for more than two (2) seconds.
 - ☐ Engine should start.
- ☐ Front Sonar Module Connector - Turn on vehicle, put vehicle in 'Drive'. Move slowly towards a large object in front of vehicle. Note whether or not alarm sounds.
- ☐ Rear Sonar Module Connector - Turn on vehicle, put vehicle in 'Reverse'. Move slowly towards a large object behind the vehicle. Note whether or not alarm sounds.
- ☐ Place the Owner's Manual, Quick Reference Guide, and/or other Manual in the glove box.
- ☐ If this vehicle will be returned to a dealer lot or showroom for an extended period of time, be sure the extended storage switch is placed in the "inventory" position.

Operate RES, verify if the system is not working properly:

- Start the engine normally with the push-button ignition switch.
- Turn the ignition OFF, and then wait six (6) seconds.
- Exit the vehicle, make sure all doors are closed, and then lock the vehicle with the key fob.
- Within five (5) seconds of pressing the lock button, point the key fob at the vehicle, and then press and hold the RES button until the turn signal lights turn ON.
- At this time, the engine should start, the turn signal lights remain ON, and the doors should remain locked while the engine is running.
- If this condition does not occur, use the Supplemental Diagnosis Table below in addition to the ESM.

Supplemental Diagnosis Table

The engine does not start using the RES feature (see steps a-e above)		Possible Cause	Confirmation of Cause	Resolution
	1	ECM has not completed shutdown procedure after engine/ignition OFF.	ECM has to end shutdown process and save data prior to allowing RES to operate. Shutdown process takes 6 seconds to complete after engine/ignition is turned OFF.	Wait 6 seconds after engine has stopped prior to attempting RES activation.
	2	RES is correctly activated more than 2 times consecutively OR RES is activated once and with engine running another request is generated.	Not possible to confirm how many times RES has been activated.	Perform steps a-d above. This action will reset counter.
	3	One or more key fobs for this vehicle are still inside the vehicle.	With all known key fobs outside and out of range of vehicle, try to turn ON ignition with push-button ignition switch. If ignition turns ON, a key fob/I-Key remains inside vehicle.	Find and remove all remaining key fobs from the vehicle, lock doors with key fob, and then perform RES.
	4	Doors and trunk lid (or lift gate) are not closed and locked.	Doors/trunk lid/lift gate may not be completely closed and locked. Confirm both conditions in BCM Data Monitor: All doors closed - Status SW = ON All doors locked - Status = ON	Close and lock all doors/trunk lid/lift gate. If switches still do not show correct status, diagnose further with ESM.

Supplemental Diagnosis Table (cont'd)

		Possible Cause	Confirmation of Cause	Resolution
The engine does not start using the RES feature	5	Door Lock button on key fob was not pressed prior to activating RES.	Not possible to confirm lock button was pressed first.	Press the Lock button before pressing and holding the RES button.
	6	RES button on key fob is not held long enough.	Not possible to confirm how long RES button was held.	Hold RES button for more than 2 sec to activate RES.
	7	Waited longer than 5 seconds to activate RES after door lock operation.	Not possible to confirm how long RES was pressed after lock.	Press and hold RES button within 5 seconds of pressing lock button.
	8	Ignition switch is not in LOCKED position	Verify if ignition switch position (status) is in any status other than LOCKED.	Change ignition switch to LOCKED status.
	9	The vehicle's shift selector is not in Park position.	Shift selector may look to be in Park but is not. Confirm in BCM Data Monitor: PN Switch = ON (with shift selector in Park)	Verify shift selector is in Park position. If PN switch = OFF, diagnose further with ESM.
	10	Shift selector release button is not in released (unpressed) position.	Confirm in BCM Data Monitor: Detent SW = OFF (when release button is not pressed)	If Detent SW = ON, diagnose further with ESM.
	11	Environmental factors block, reduce, or scramble signal strength from key fob to BCM.	RF interference may exist inside vehicle with aftermarket devices i.e. alarm systems OR other devices found near the key i.e. highway pass card OR RF device i.e. phone or portable garage door opener.	Move vehicle from area where stationary source(s) of interference may be located and/or remove source(s) of interference away from the key fob or path of signal.
	12	Stop lamp switch is misadjusted or inoperative, giving a stop lamp switch ON signal (or brake pedal is applied).	Stop lamp switch adjustment may not be within specification. Confirm switch operation using ABS Data Monitor: Stop Lamp SW = OFF (with brake pedal released, not pressed)	Adjust / Replace Stop lamp switch.

Supplemental Diagnosis Table (cont'd)

The engine does not start using the RES feature		Possible Cause	Confirmation of Cause	Resolution
	13	Hood is opened.	Hood may not be completely closed. Confirm hood switch operation using IPDM Data Monitor: SW = ON (when hood is closed)	Check as needed: • Verify the hood is closed. • Confirm hood switch connection is secure. • Adjust / replace switch.
	14	Security system is currently activated (activation keeps engine from starting). Note: Horns may not be heard and lights may not be flashing.	Check Security system activation by trying to start engine normally (with push-button ignition switch). Note: Engine will not start with Security system activated.	Turn off/deactivate Security system (unlock doors with key fob). If condition persists, diagnose further using ESM.
	15	RES is attempted from within the vehicle.	RES can only operate from outside vehicle with doors locked.	Exit vehicle WITH key fob, lock doors and within 5 seconds activate RES.
	16	Specific DTCs may prevent RES from operating: B261B, B26FE, B26FD	Confirm with C-III plus no DTCs are stored.	Clear DTC(s) with C-III plus. If DTC(s) persist, perform further diagnosis using ESM.