



Southeast Toyota Distributors, LLC

Southeast Toyota Distributors, LLC Accessory Installation Instructions

2022 RAV4/HV TOUCH KEYPAD (TKP)

Year & Model:	2022 RAV4/HV
Part Number:	00016-00506, 00016-00606
Accessory Code:	KP1000, KP1010, KP1020
PIO / DIO:	PIO & DIO
Business Partner:	J56

Conflicts

Note: Japan CBU (4530, 4450) & All Plug-In Hybrid Rav4 Prime Models

General Applicability

Fits Models:	
1.	All Models
2.	
3.	

Additional Items Required For Installation

Item#	Description:
1	(62217-24050) (2) A-Pillar Clips Needed
2	

Sequence of Application

Item#	Accessory:
1	N/A
2	

SPECIALNOTE: Installation Sequences

After TMS & Safety mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation. In some instances the suggested sequence is written for one associate to install & in others the sequence is given as part of a team accessory installation. Unless otherwise stated in the document, the associates may perform the installation steps in any order to make the installation as efficient as possible while maintaining consistent quality.

Recommended Tools

Safety Items	
Safety Glasses	Safety Gloves
Special Tools	
Backhousing Alignment Tool	Windshield QC Scale
Temperature probe /Heat Gun	
Installation Tools	
Heat Source	For Temperatures under 50°F
Moulding Remover	Pliers
Ratchet/Driver	Side Cutters
Socket (10mm)	Torque Wrench (48 in*lbs)
Masking Tape	Small Flat Head (Taped)
Roller	Felt Block
Padded Work Surface	Protective Blanket
Special Chemicals	
VPC Approved Cleaner	

Note: Japan CBU (4530, 4450) & All Plug-In HV Rav4 Prime Models.

Legend

	STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.
	OPERATOR SAFETY: Use caution to avoid risk of injury.
	CAUTION: A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.
	TOOLS & EQUIPMENT: Used in figures calls out the specific tools and equipment recommended for this process.
	REVISION MARK: This mark highlights a change in Installation with respect to previous issue.
	SAFETY TORQUE: This mark indicates that torque is related to safety.
	REGULATORY MARK: This mark indicates that the component is related to regulatory compliance.
	CRITICAL SYMBOL: This image indicates critical to fit form or function.
	VIDEO: This image indicates a video in the installation procedure, PIO Only.

Document History Revisions

Version	Date	Description of Changes Made
V1	08/26/2021	Document Published as 2022
V2	04/04/2022	Ghosting/Contrasting-un-uniform line the length of the label \neq 2.5mm from the edge of the tape, pgs. 35-36
V3	06/13/2022	Add new images and secure DCL harness to factory harness, pg. 34
V4	06/20/2022	Add new part number and accy. code, pgs. 1, 4, 6, & 48

Table of Contents

I.	Preparation.....	1-6
	a. History of Revisions.....	2
	b. Table of Contents.....	3
	c. Kit/Hardware & Wire Harness Bag Contents.....	4
	d. Parts for Installation.....	5
	e. Service & Warranty Information	6
II.	Procedures	
	a. Battery Removal.....	7-9
	b. Vehicle Disassembly – Installation Process.....	10-43
	b. Interior Panels and Trim – Installation Process.....	44
III.	Re-install Battery.....	45
IV.	Function and Quality Checks.....	46-47
V.	Diagnostic / Block Diagrams & Connector Procedures.....	48-50
VI.	Warranty Statement.....	51-52

Kit/Hardware Bag Contents for PIO:

Item #	Quantity	Description
1.	1	TKP Overmold with Molex 5-pin Harness
2.	1	Keypad Button Graphic Sticker
3.	1	TKP Vehicle Harness
4.	3	RED Female T-Taps
5.	3	BLACK Female T-Taps
6.	6	Zip Ties 8"
7.	1	DLC Power & Ground Jumper
8.	1	TKP User Manual
9.	1	TKP Seat Headrest Hangtag

Kit/Hardware Bag Contents for DIO:

Item #	Quantity	Part Number	Description
1.	1	00016-00506-DK 00016-00606-DK	Installation Tool Kit
2.	1	00016-00506-DL 00016-00606-DL	DIO - Touch Key Pad Kit
3.	10	00016-00506-BS 00016-00605-BP	DIO-X10 Stickers



	Description
Item 1.	Installation Tool Kit
	DIO-Touch Key Pad Kit
	DIO-X10 Stickers



Item 2.



Item 3.

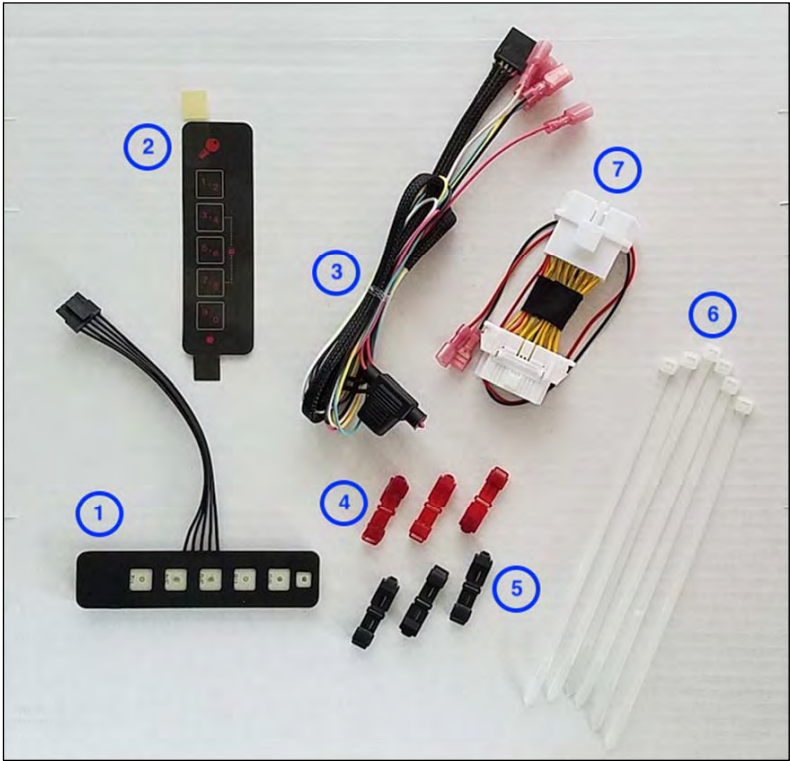
Parts for Installation:

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation. These guidelines can be found in the “Accessory Installation Practices” document.

This document covers such items as:

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, re-checking torque procedure, etc.).
- Vehicle Disassembly/ Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Item #	Quantity	Description
1.	1	TKP Overmold with Molex 5-pin Harness
2.	1	Keypad Button Graphic Sticker
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9.	1	Seat Headrest Hangtag

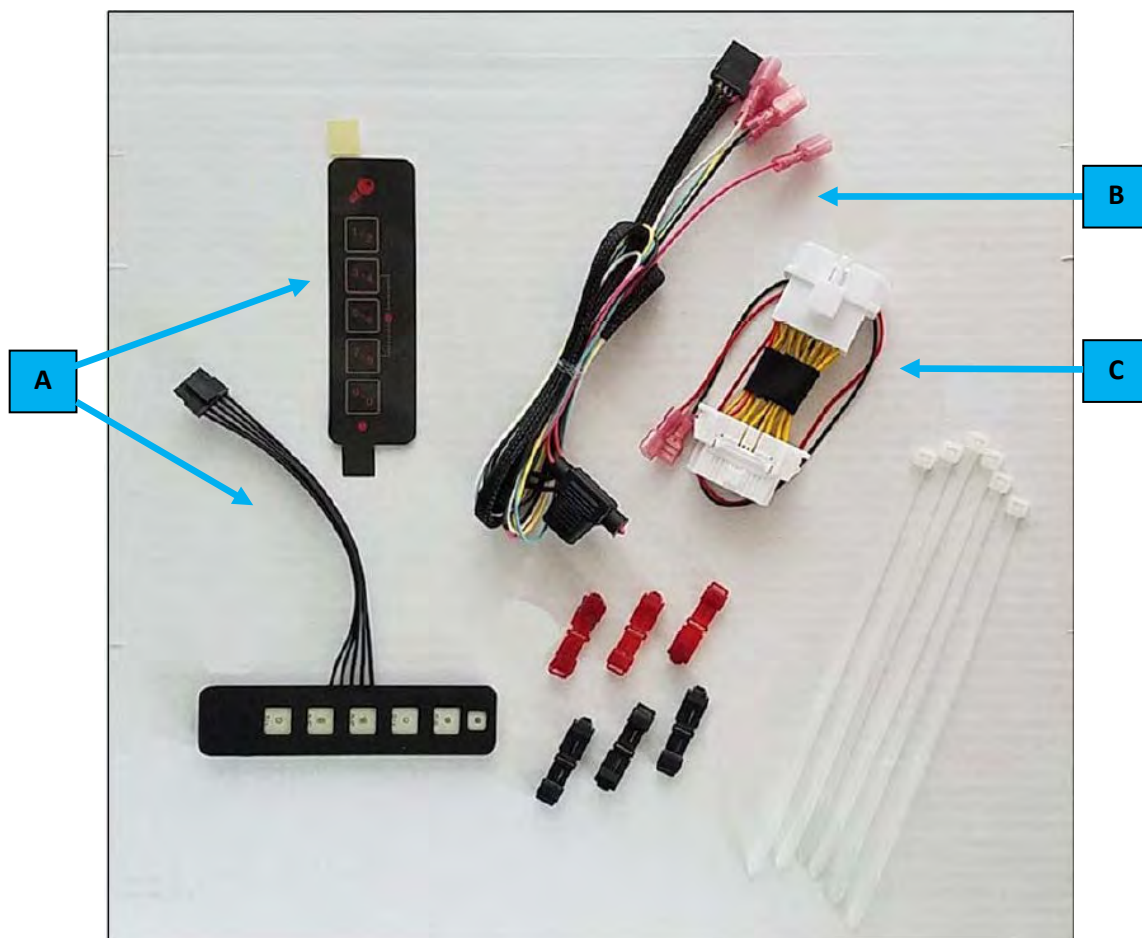


Service & Warranty Information

Image Key	Parts information		Warranty Information	
	Part Number	Description	Warranty Time	Labor Op. Code
N/A	00016-00506 00016-00606	Touch Keypad	N/A	N/A
A	00016-00505-01	TKP REPLMNT KEYPAD	0.5	ATK001
B	00016-00505-02	TKP WIRE HARNESS	0.5	AHAR05
C	00016-00555	DLC P&G JUMPER 16PIN	0.5	ATK001
Note: Replacement keypad (Item A) includes two stickers. Wire harness (Item B) includes zip ties and t-taps.				

Service & Warranty Information:

If you are a dealer located outside of the Southeast Region, please contact the SET Accessory Warranty Department at (888) 851-2722 or email Accessory.Warranty@SEToyota.com for claim payment instructions.

Image:

1. DISCONNECT BATTERY GAS VEHICLES

Prepare for the Installation:

- (a) The engine components and coolant may be hot.
- (b) Check the kit for contents and any damage.
- (c) Protect the fender.

Note: For Gas vehicles, the battery is in the engine compartment.

For Hybrid vehicles, the battery is in the trunk.

Remove the battery cover by disengaging the top clip. Figure 1-1.



Figure 1-1



Do not disconnect the terminal at the 12mm nut.



Use 10mm socket.

- (d) Remove the NEGATIVE (-) battery terminal by loosening the 10mm terminal nut before starting any disassembly. Figure 1-2.

- (e) Place insulator over negative battery terminal.



DO NOT touch the positive terminal.



Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.



Figure 1-2

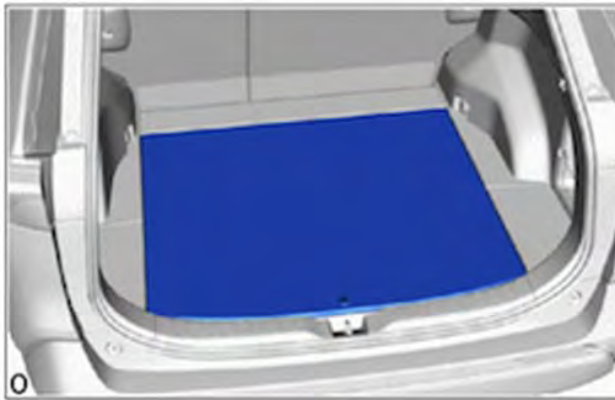


Figure 2

2. DISCONNECT BATTERY HYBRID VEHICLES



After turning the power switch off, waiting time may be required before disconnecting the cable from the negative (-) auxiliary battery terminal.



Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

For Hybrid Vehicles, the battery is in the luggage compartment.

- (a) Remove the deck board assembly.
Figure 2.

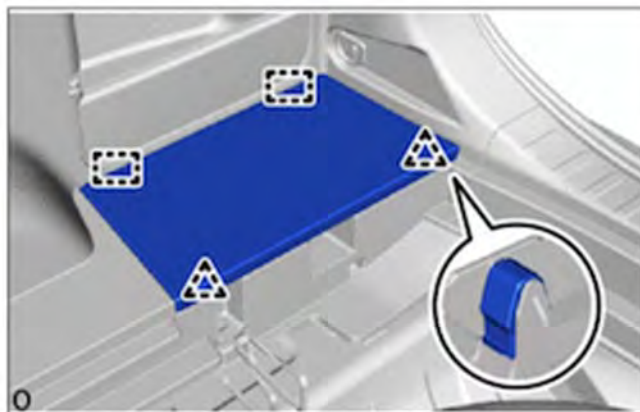


Figure 3

- (b) Detach the 2 clips and 2 guides and remove the luggage trim service hole cover. Figure 3.

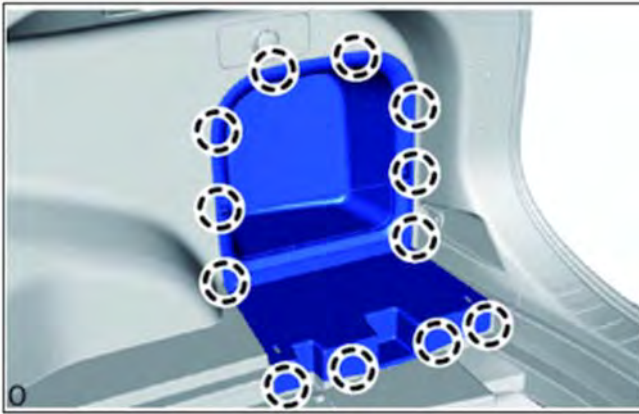


Figure 4

- (c) Detach the 12 claws and remove the battery hole cover. Figure 4.

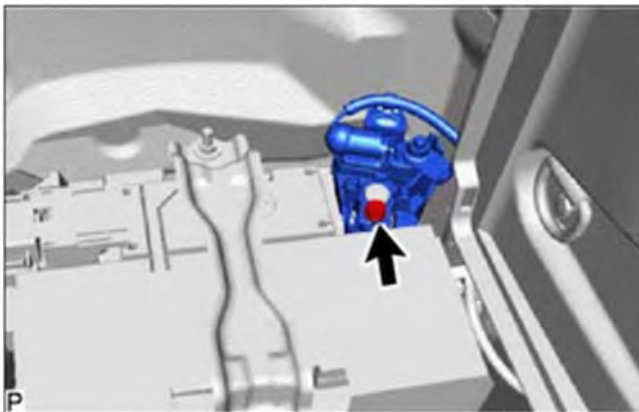


Figure 5



Use 10mm socket.

- (c) Loosen the 10mm nut and disconnect the cable from the negative (-) auxiliary battery terminal. Figure 5.



When disconnecting the battery cable, some systems need to be initialized after the cable is reconnected.

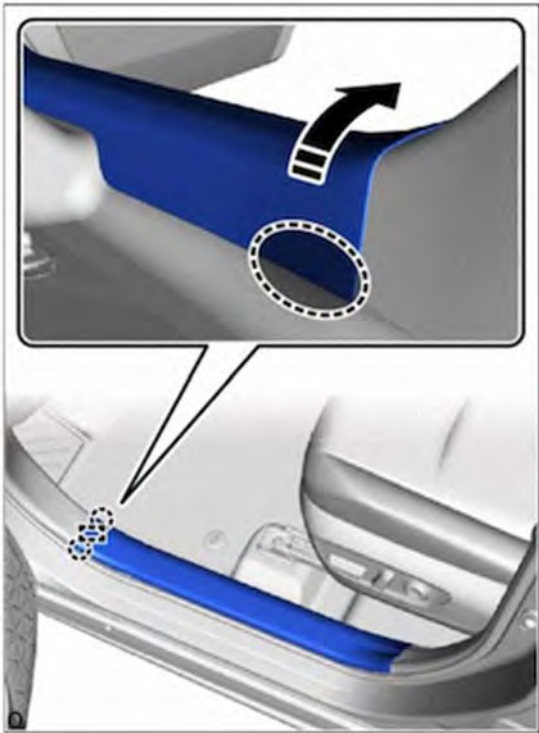





Figure 6

VEHICLE DISASSEMBLY-
INSTALLATION PROCESS

 Place a protective blanket in the front foot-well area.

3. REMOVE FRONT DOOR SCUFF
PLATE LH

(a) Place your hand at the position shown in the illustration and pull in the removal direction to detach the claw and guide. Figure 6.

	Place Hand Here
	Remove in this Direction

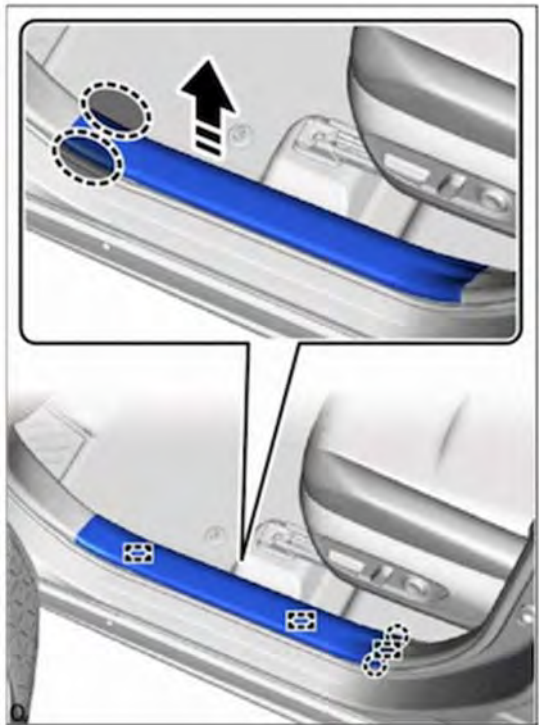




Figure 7

(b) Place both hands at the position shown in the illustration and lift in the direction indicated by the arrow to detach the clamp and claw and remove the front door scuff plate LH. Figure 7.

	Place Hands Here
	Remove in this Direction

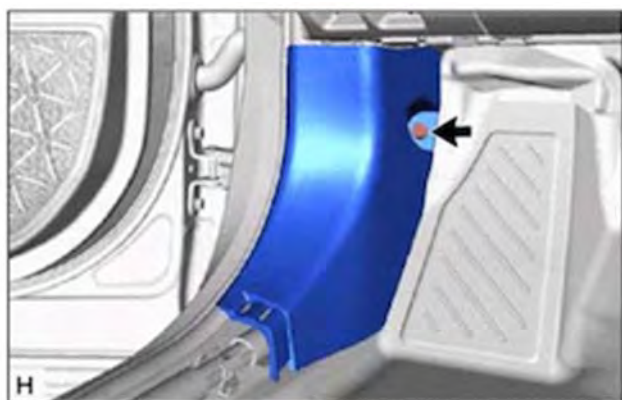


Figure 8

4. REMOVE COWL SIDE TRIM BOARD LH

(a) Remove the cap nut. Figure 8.

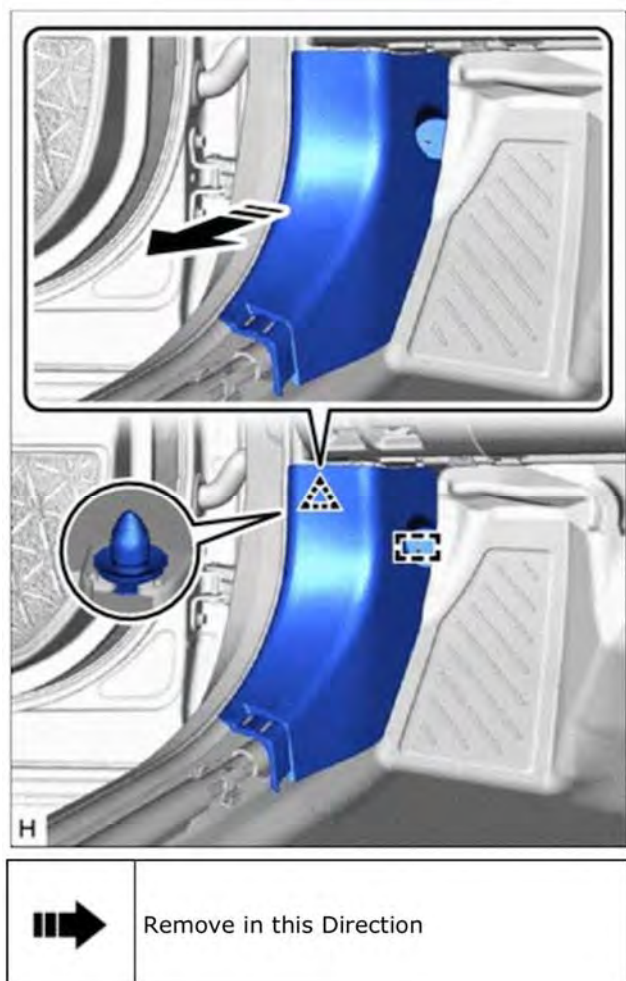


Figure 9

(b) Detach the clip and guide and remove the cowl side trim board LH. Figure 9.

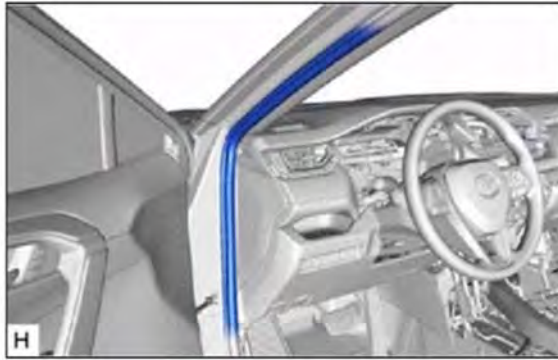


Figure 10

5. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH

- (a) Remove the front door opening trim weatherstrip LH along the A-pillar. Figure 10.

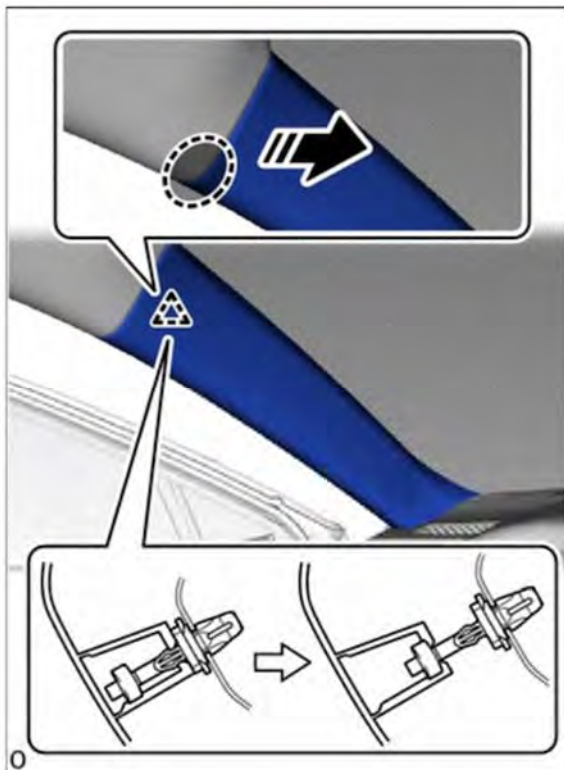


Figure 11

6. REMOVE FRONT PILLAR GARNISH LH

- (a) Place your hand at the position shown in the illustration and pull in the direction indicated by the arrow to detach the front pillar garnish clip. Figure 11.

	Place Hand Here
	Remove in this Direction

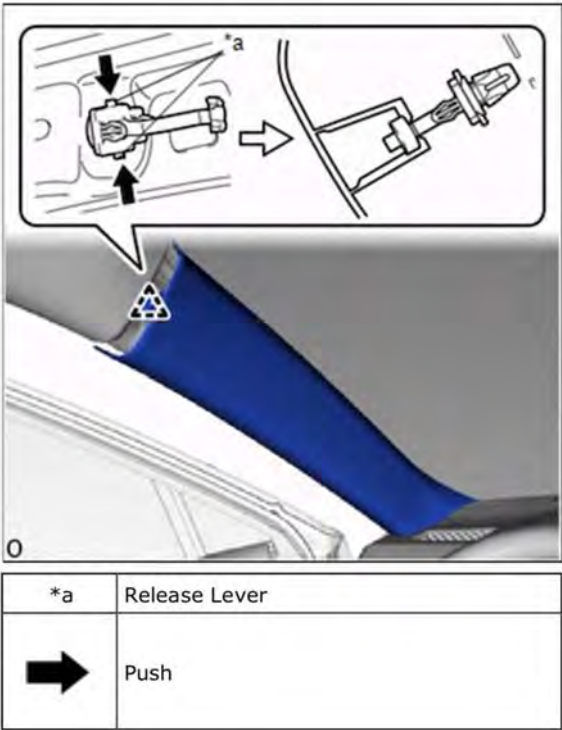


Figure 12

(b) Push in the release lever with your finger and remove the front pillar garnish clip from the vehicle or cut with side cutters. Figure 12.

(c) Do not re-use the front pillar garnish clip.
Part Number 62217-42050

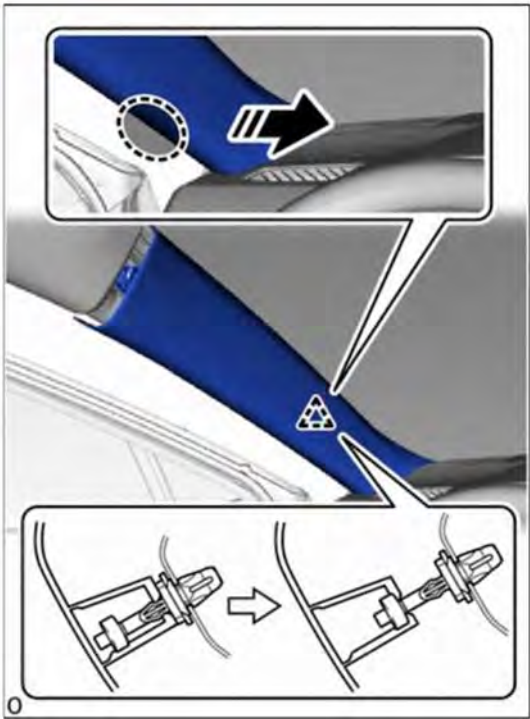
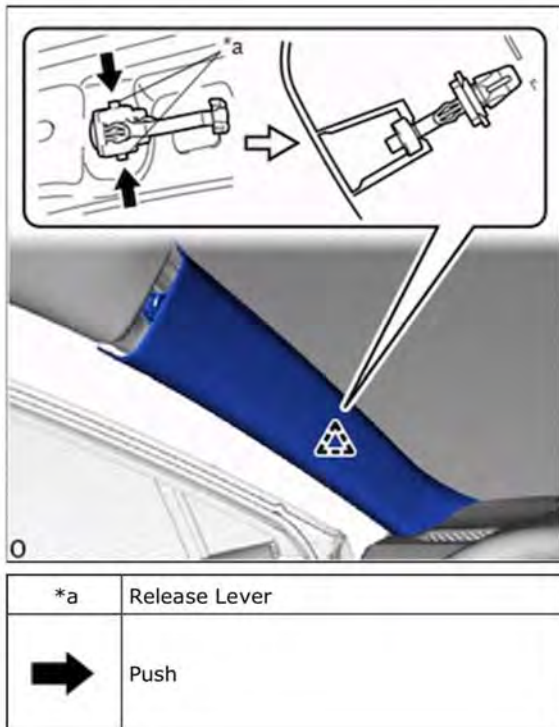


Figure 13

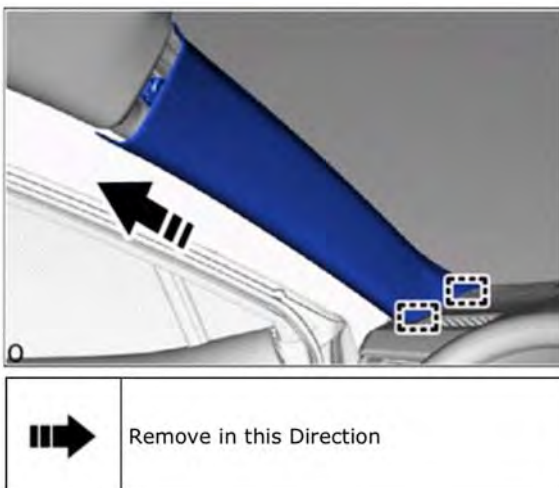
(d) Place your hand at the position shown in the illustration and pull in the direction indicated by the arrow to detach the second front pillar garnish clip. Figure 13.

*Figure 14*

- (e) Push in the release lever with your finger and remove the second front pillar garnish clip from the vehicle or cut with side cutters. Figure 14.



Do not re-use the front pillar garnish clip
Part Number 62217-42050

*Figure 15*

- (f) Pull in the direction of the arrow shown in the illustration to detach the guide and remove the front pillar garnish LH. Figure 15.

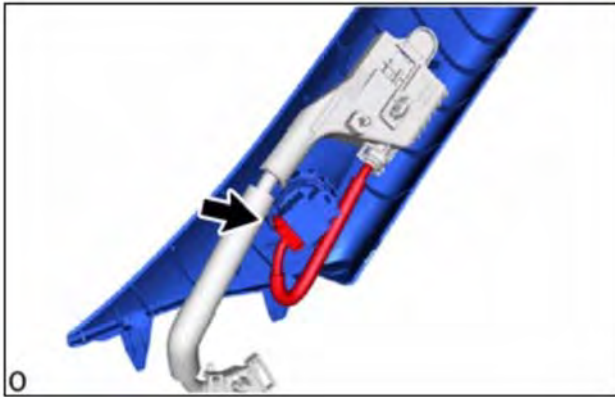


Figure 16

(g) For 9 speakers:

(1) Disconnect the connector. Figure 16.

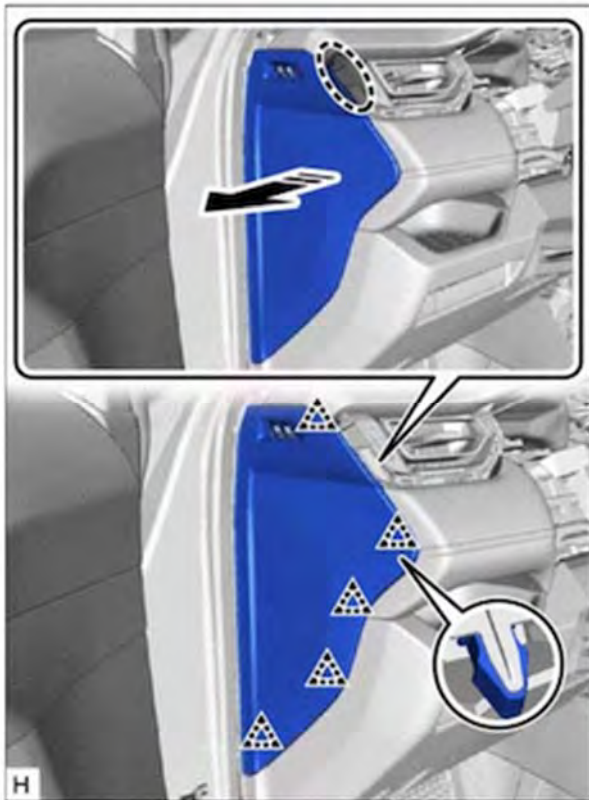


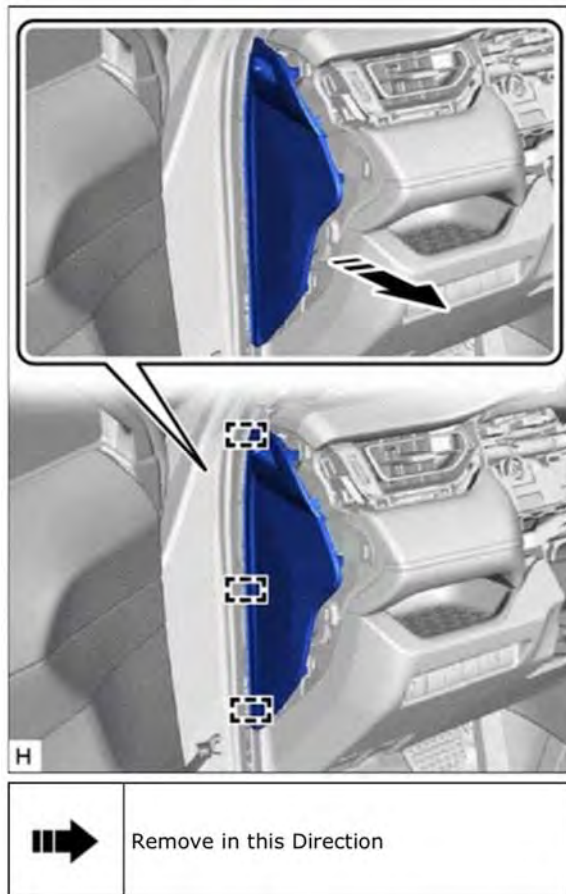


Figure 17

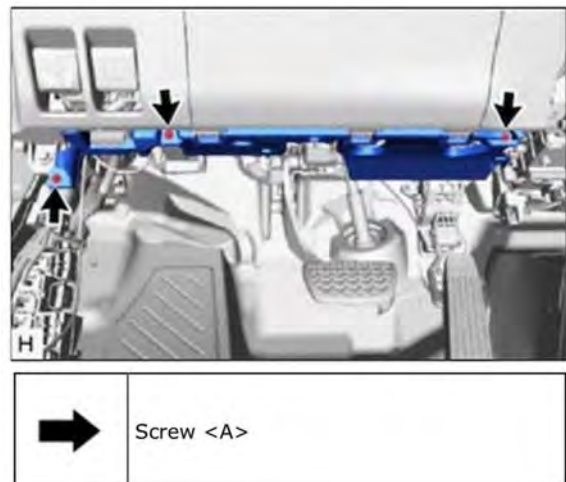
7. REMOVE INSTRUMENT SIDE PANEL LH

(a) Place your hand at the position shown in the illustration and pull in the direction indicated by the arrow to detach the clip. Figure 17.

	Place Hand Here
	Remove in this Direction

*Figure 18*

(b) Pull in the direction indicated by the arrow shown in the illustration to detach the guide and remove the instrument side panel LH. Figure 18.

*Figure 19*

Note: Step 8-11 are Optional Steps

8. REMOVE NO. 1 INSTRUMENT
PANEL UNDER COVER SUB-
ASSEMBLY

(a) Remove the 3 screws <A>. Figure 19.

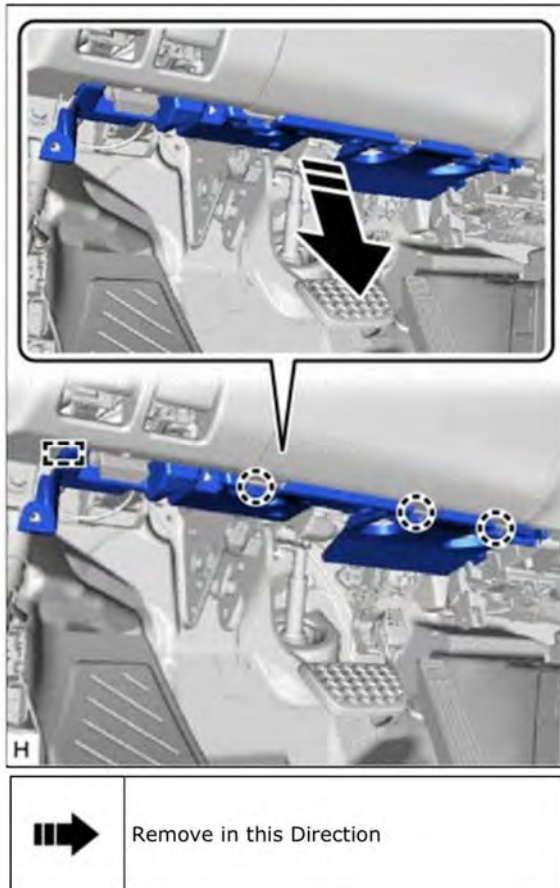


Figure 20

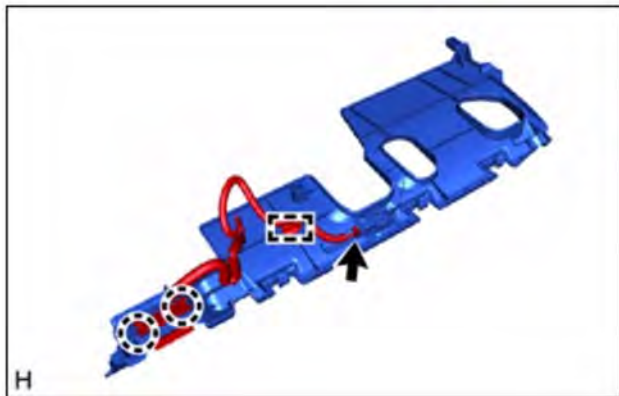


Figure 21

(b) Detach the claw and guide and lower the No. 1 instrument panel under cover sub-assembly in the direction of the arrow shown in the illustration. Figure 20.

- (c) With Footlight:
- (1) Disconnect the connector and detach the clamp.
 - (2) Detach the claw and remove the DLC3. Figure 21.

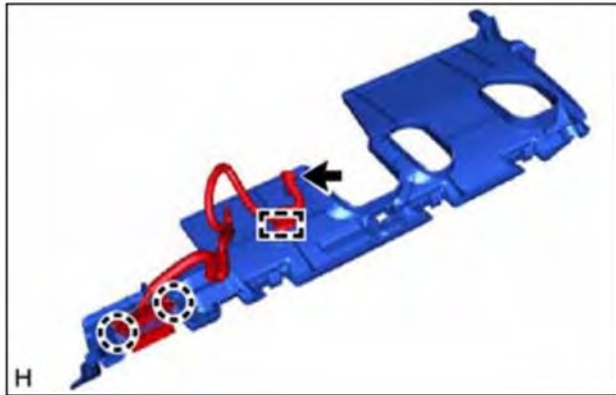


Figure 22

- (d) Without the Footlight:
(1) Detach the claw and remove the DLC3. Figure 22.

HINT:

Even if there is no foot light, if there is a connector, disconnect the connector and detach the clamp.

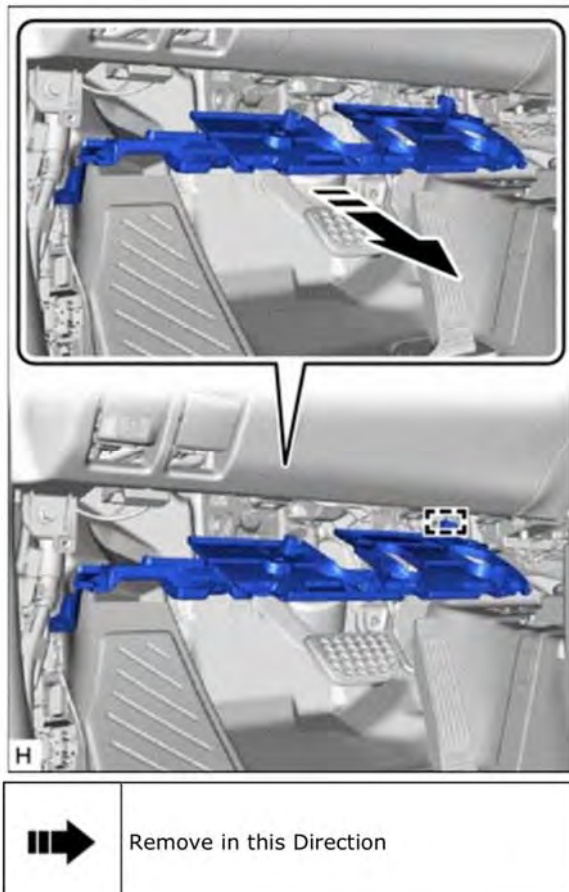


Figure 23

- (e) Pull in the direction of the arrow shown in the illustration to detach the guide and remove the No. 1 instrument panel under cover sub-assembly. Figure 23.

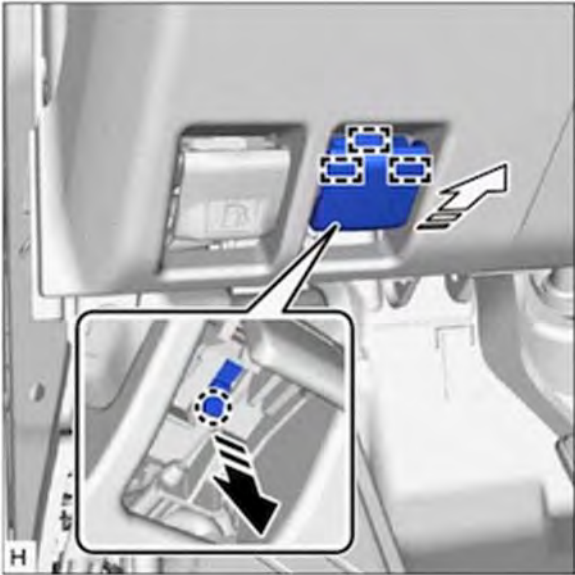




Figure 24

9. REMOVE HOOD LOCK CONTROL
LEVER SUB-ASSEMBLY

- (a) Detach the claw in the direction (1) indicated by the arrow shown in the illustration.
- (b) Detach the guide in the direction (2) indicated by the arrow shown in the illustration and remove the hood lock control lever sub-assembly. Figure 24.

	Remove in this Direction (1)
	Remove in this Direction (2)

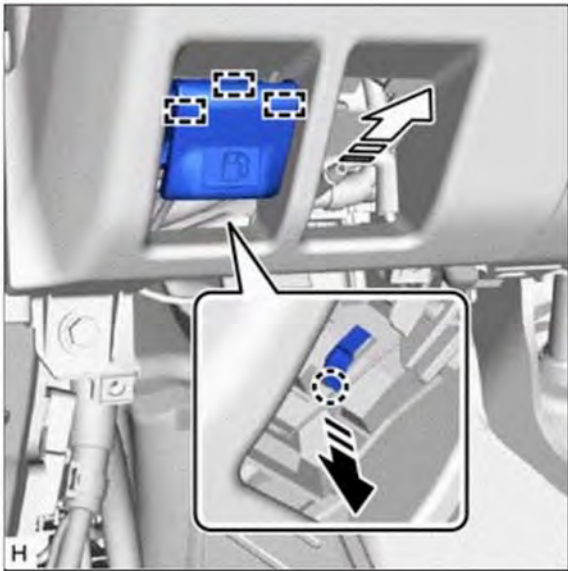


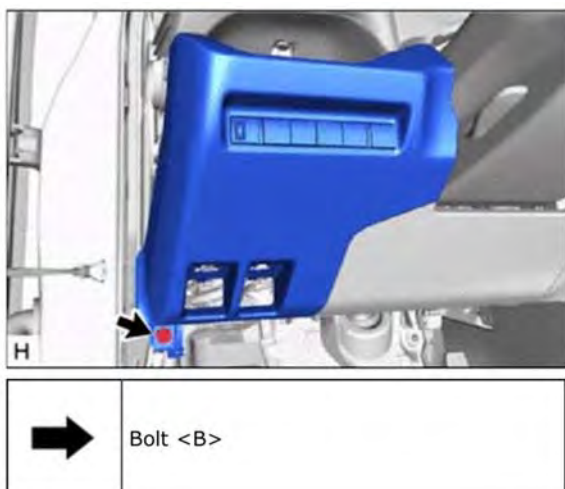


Figure 25

10. REMOVE FUEL LID LOCK OPEN
LEVER SUB-ASSEMBLY (for Gasoline
Model)

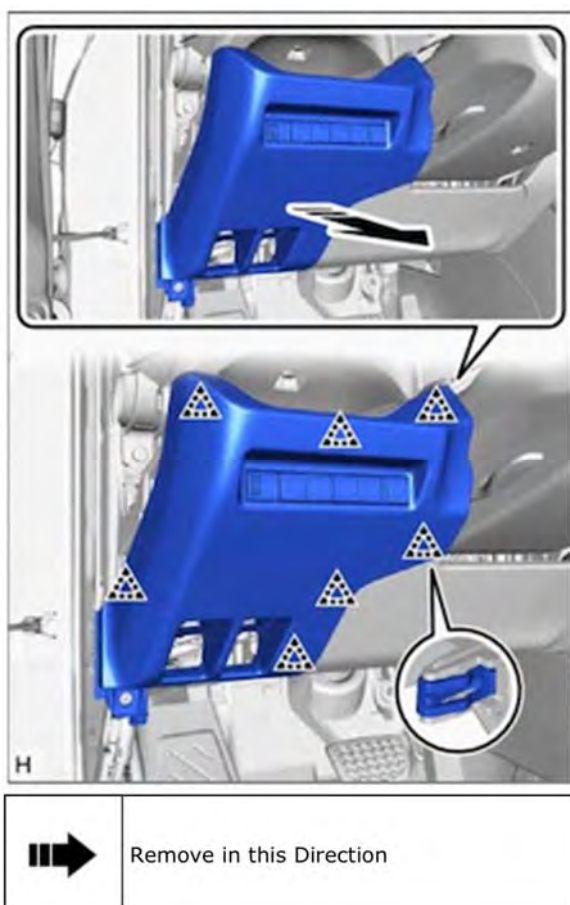
- (a) Detach the claw in the direction (1) indicated by the arrow shown in the illustration.
- (b) Detach the guide in the direction (2) indicated by the arrow shown in the illustration and remove the fuel lid lock open lever sub-assembly. Figure 25.

	Remove in this Direction (1)
	Remove in this Direction (2)

*Figure 26*

11. REMOVE FUSE BOX OPENING COVER

(a) Remove Bolt . Figure 26.

*Figure 27*

(b) Pull in the direction indicated by the arrow to detach the clip. Figure 27.

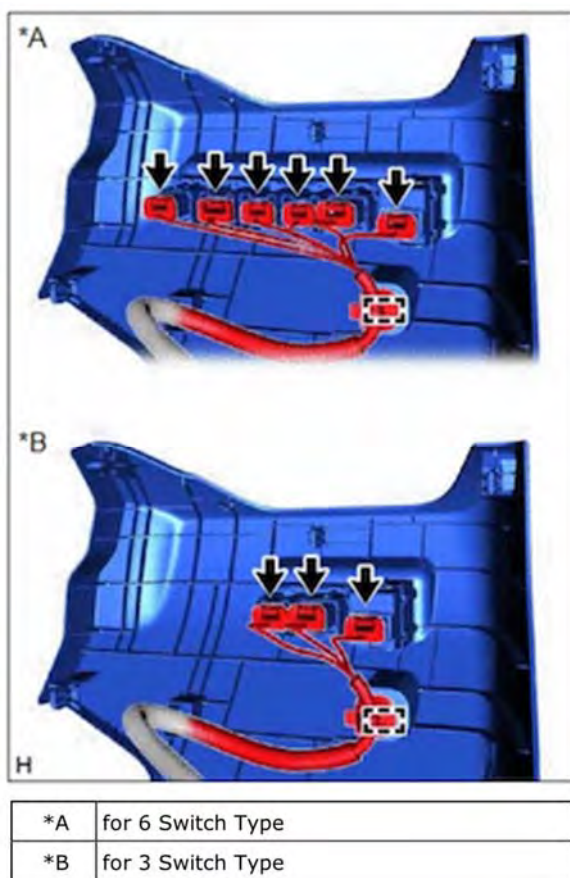


Figure 28

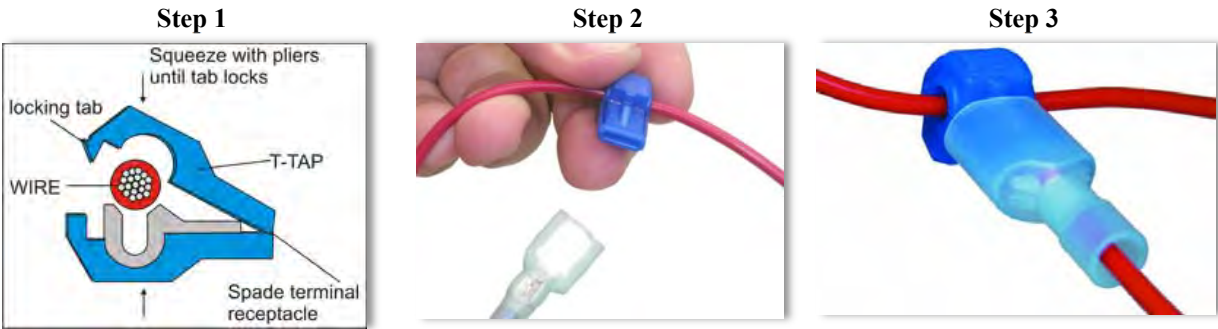
(c) Disconnect each connector.

(d) Detach the clamp and remove the fuse box opening cover. Figure 28.

(e) For HV model, disconnect the connector.

T-TAP INSTALLATION

When installing the female T-Tap connectors, be sure the wire is located inside the wire channel of the female T-Tap connector before closing the connector over the wire with pliers.

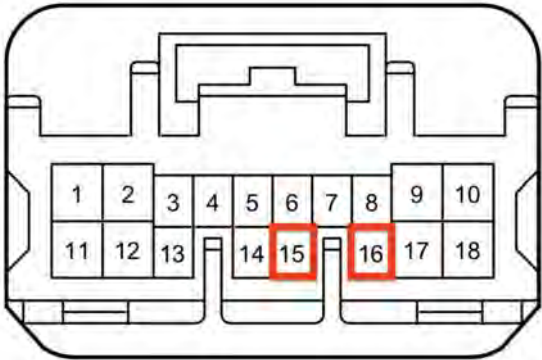


CONNECTOR JG1: Front Door Wire LH and Instrument Panel Wire (Left Kick Panel)

Location: Lower driver’s side kick panel area

TKP HARNESS	VEHICLE	PIN	T-TAP
Light Blue - Lock	Light Green	15	Red
White - Unlock	Gray	16	Red

Front Door Wire LH and Instrument Panel Wire
JG1 WHITE (18-pin)

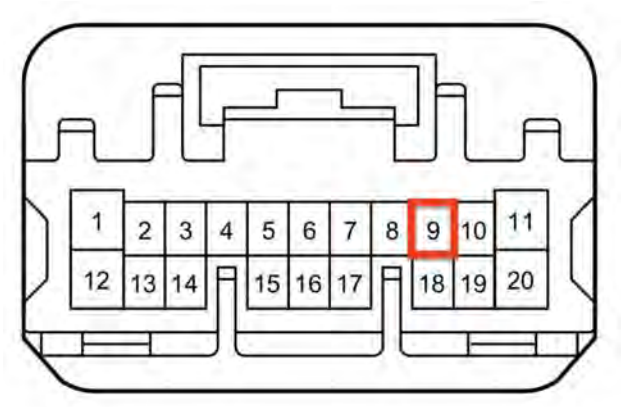


CONNECTOR JN1: Front Door Wire LH and No. 2 Floor Wire (Left Kick Panel)

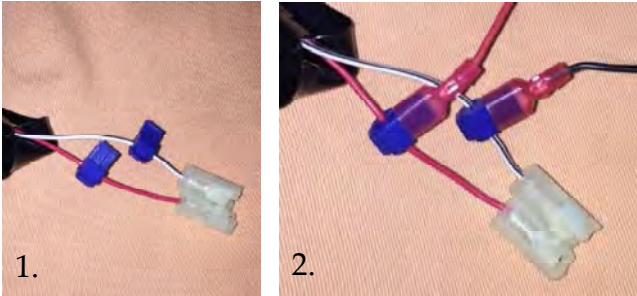
Location: Lower driver’s side kick panel area

TKP HARNESS	VEHICLE	PIN	T-TAP
Yellow - Ignition	Light Green	9	Red

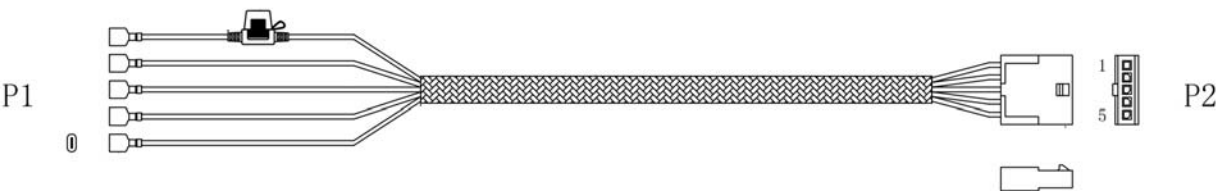
Front Door Wire LH and No. 2 Floor Wire
JN1 BLACK (20-pin)



***Note :** Install the T-Taps in a staggered position on the wires. T-Taps should not be side-by-side nor same distance from the connector. There should be approximately at least one inch of wire remaining between the connector and the closest t-tap to the connector. See Examples 1 & 2.*

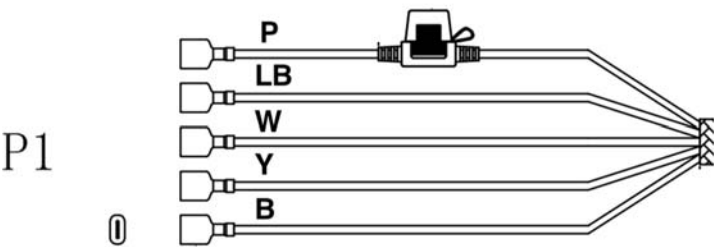


TKP VEHICLE HARNESS



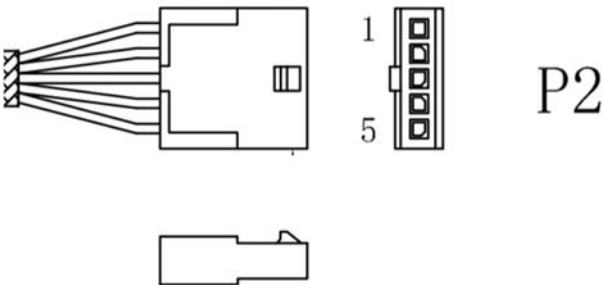
CONNECTOR P1 & P2: TKP Vehicle Harness

Male Blade Connector P1 RED (5x)



TKP VEHICLE HARNESS		WIRE COLOR
1	POWER	PINK
2	LOCK	LIGHT BLUE
3	UNLOCK	WHITE
4	ACC	YELLOW
5	GROUND	BLACK

Female Molex 5-pin Connector P2 BLACK



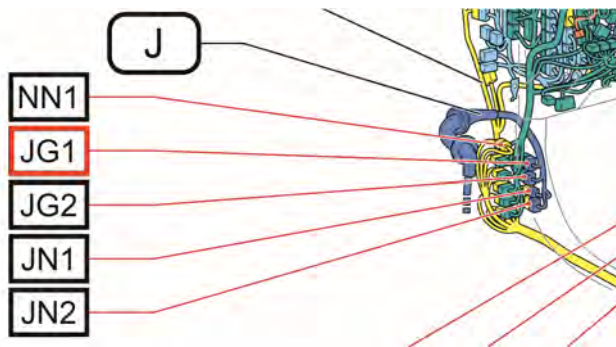


Figure 29

12. LOCATE CONNECTOR JG1 IN THE LOWER DRIVER'S SIDE KICK PANEL AREA (Cowl Side Panel LH)

(a) Disconnect connector JG1 (WHITE 18-pin). Figure 29.

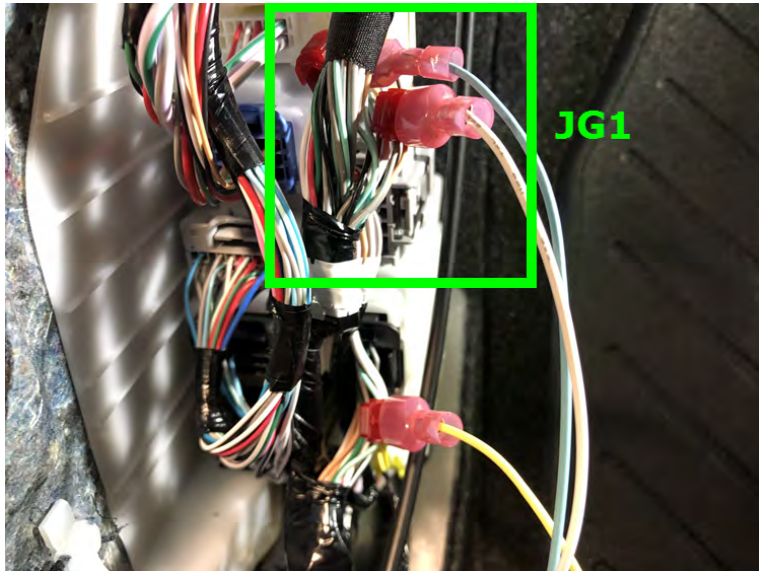
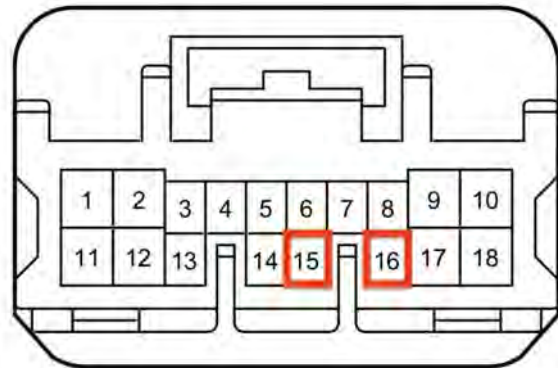


Figure 30

13. LOCATE LOCK & UNLOCK WIRES IN CONNECTOR JG1

(a) Disconnect the JG1 connector. Figure 30.
 (b) Pull back the protective tape to expose at least 2" of the wires behind the connector.
 (c) Separate the LOCK wire (Pin #15 / Color LIGHT GREEN) from the bundle.
 (d) Separate the UNLOCK wire (Pin #16 / Color GRAY) from the bundle.



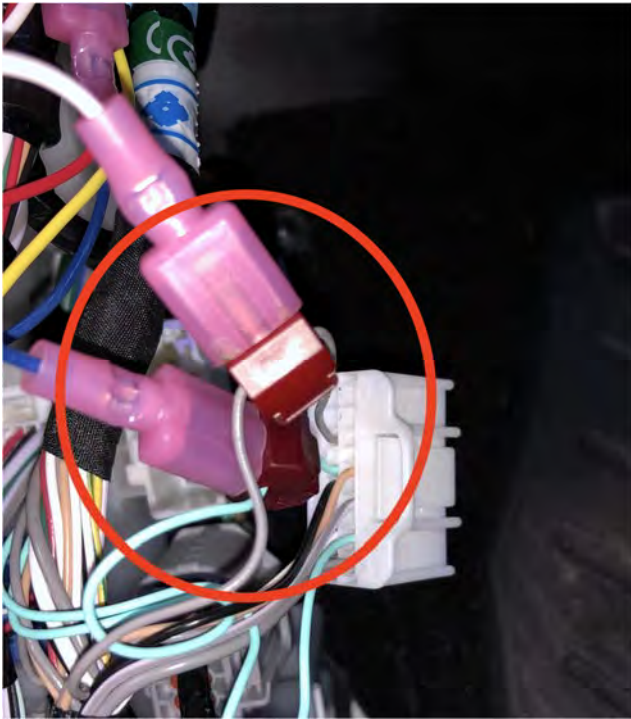


Figure 31

14. T-TAP LOCK & UNLOCK WIRES IN CONNECTOR JG1

- (a) T-Tap the LIGHT GREEN lock wire (Pin #15) with the supplied RED T-tap.
- (b) T-Tap the GRAY unlock wire (Pin #16) with the supplied RED T-tap. Figure 31.



Stagger the T-tap connectors as shown.

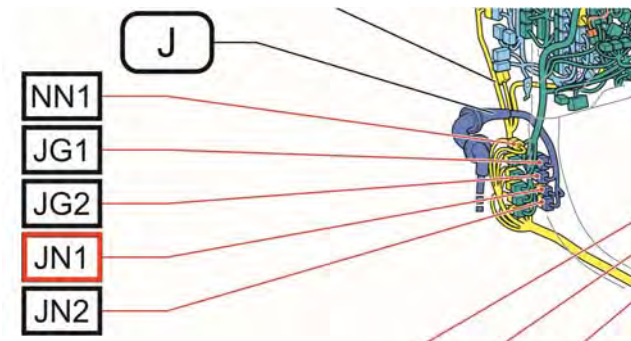


Figure 32

15. LOCATE CONNECTOR JN1 IN THE NO. 2 SWITCH HOLE BASE (LH Dash Panel)

- (a) Disconnect connector JN1 (BLACK 20-pin). Figure 32.

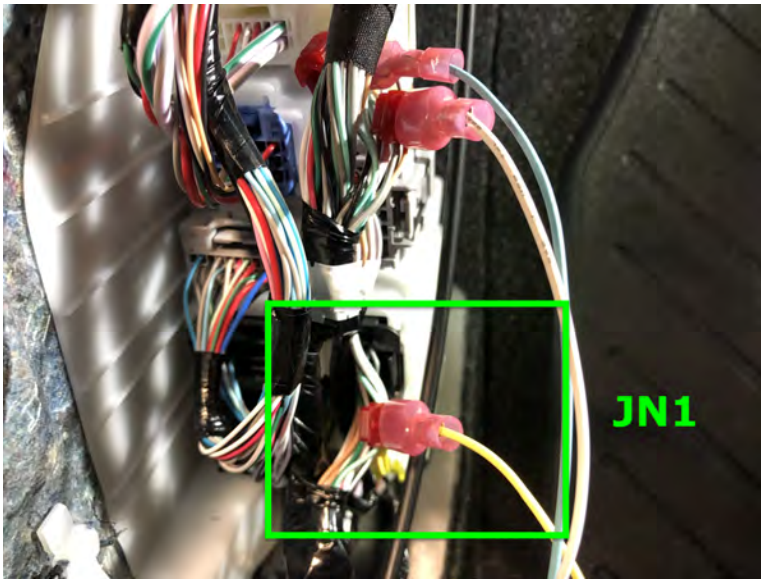


Figure 33

16. LOCATE REMOTE MIRROR WIRE IN CONNECTOR JN1

- (a) Pull back the protective tape to expose at least 2" of the wires behind the connector.
- (b) Separate the REMOTE MIRROR wire (Pin #9 / Color LIGHT GREEN) from the bundle. Figure 33.

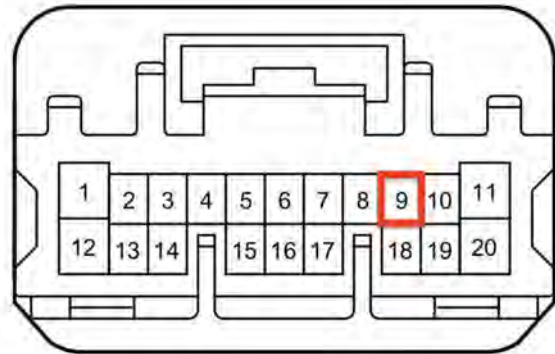


Figure 34

17. T-TAP REMOTE MIRROR WIRE IN CONNECTOR JN1

- (a) T-Tap the LIGHT GREEN remote mirror wire (Pin #9) with the supplied RED T-tap. Figure 34.



18. ROUTE TKP VEHICLE HARNESS TO A-PILLAR

(a) Hold the TKP Vehicle Harness with the Female Molex 5-pin Connector P2 oriented up towards the A-pillar.

(b) From the lower driver's side kick panel area, route the TKP Vehicle Harness upwards along the side of the door edge opening and the instrument side panel LH as shown in the illustration. Figure 35.

Figure 35



(c) The TKP Vehicle Harness should route up to the A-pillar through the opening at the LH dash upper surface as shown. Figure 36.

Figure 36



(d) Route the TKP Vehicle Harness downwards behind the metal dash support brace as shown. Figure 37.

Figure 37



Figure 38

(e) Route the TKP Vehicle Harness downwards to the driver's side kick panel area behind the metal tubular dash support brace as shown. Figure 38.



Figure 39



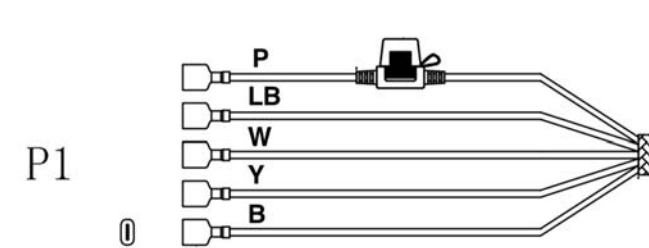
Use one (1) 8" zip tie.


19. SECURE THE TKP VEHICLE HARNESS MOLEX 5-PIN CONNECTOR

(a) Loosely secure the TKP Vehicle Harness Female Molex 5-pin Connector P2 to the factory harness at the A-pillar with a supplied 8" zip tie to prevent it from falling down. Figure 39.



Do not secure the zip tie tightly at this point. Make sure the TKP Vehicle Harness Female Molex 5-pin Connector P2 has enough slack to reach the TKP Backhousing pigtail Molex (male) connector.



 Before connecting, make sure the TKP Vehicle Harness' male blade connectors P1 are not bent to one side to ensure they insert securely into their corresponding female T-Tap connectors.

TKP VEHICLE HARNESS		WIRE COLOR
1	POWER	PINK
2	LOCK	LIGHT BLUE
3	UNLOCK	WHITE
4	ACC	YELLOW
5	GROUND	BLACK



Figure 40

20. CONNECT THE LOCK & UNLOCK WIRES IN CONNECTOR JG1 TO THE TKP VEHICLE HARNESS MALE BLADE CONNECTORS P1

- (a) Connect the male blade connector of the TKP Vehicle Harness' LIGHT BLUE wire to the JG1 connector's LIGHT GREEN lock wire T-tap (Pin 15).
- (b) Connect the male blade connector of the TKP Vehicle Harness' WHITE wire to the JG1 connector's GRAY unlock wire T-tap (Pin 16).
- (c) Reconnect the JG1 connector. Figure 40.



Figure 41

21. CONNECT THE REMOTE MIRROR WIRE IN CONNECTOR JN1 TO THE TKP VEHICLE HARNESS MALE BLADE CONNECTOR P1

- (a) Connect the male blade connector of the TKP Vehicle Harness' YELLOW wire to the JN1 connector's LIGHT GREEN remote mirror wire T-tap (Pin 9).
- (b) Reconnect the JN1 connector. Figure 41.

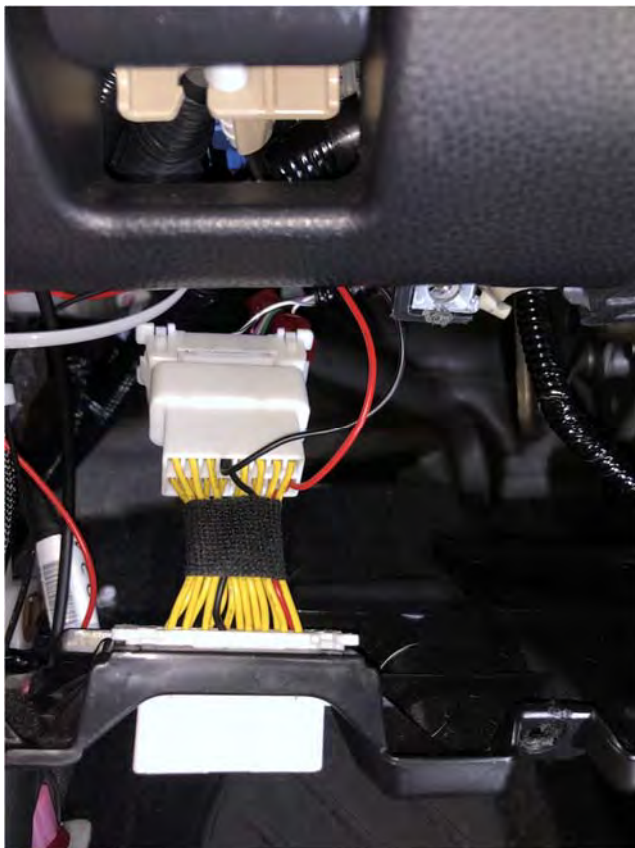


Figure 42

23. INSTALL DLC POWER & GROUND JUMPER

- (a) Locate the vehicle's white DLC connector in the lower the No. 1 instrument panel under cover sub-assembly.
- (b) Connect the vehicle's DLC connector to the DLC Power & Ground Jumper. Figure 42.
- (c) Connect the male blade connector of the DLC Jumper's RED power wire to the TKP Vehicle Harness PINK power wire's female connector.
- (d) Connect the male blade connector of the DLC Jumper's BLACK ground wire to the TKP Vehicle Harness BLACK ground wire's female connector.



Figure 43a



Figure 43b



Use two (2) 8" zip ties.

24. SECURE THE DLC POWER & GROUND JUMPER WIRES

(a) Secure the DLC Power & Ground Jumper wires with two (2) of the supplied 8" zip ties to the factory wire harness as shown. Figure 43a & 43b.

(b) **LEFT** - Secure DCL harness to factory harness, fig. 43a.

(c) **RIGHT** - Route and secure harness as shown, fig. 43b.

(d) Snip excess zip tie lengths.



ACCEPTABLE

NOT ACCEPTABLE

(e) DCL Connector should be aligned & placed as shown ensuring that the harness & connector is not obscuring the fuse panel, shown in fig. 43c.

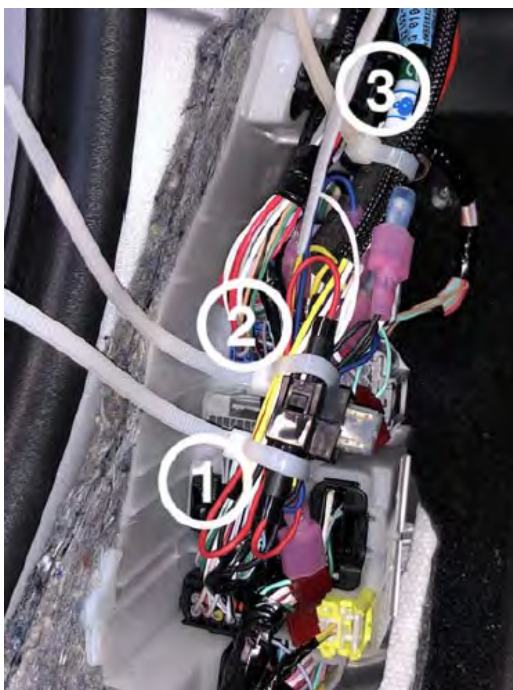


Figure 44



Use three (3) 8" zip ties.

22. BUNDLE & SECURE THE TKP VEHICLE HARNESS WIRES AT CONNECTOR JG1

(a) Pull the TKP Vehicle Harness down to remove any excess slack in the harness run to the connectors.

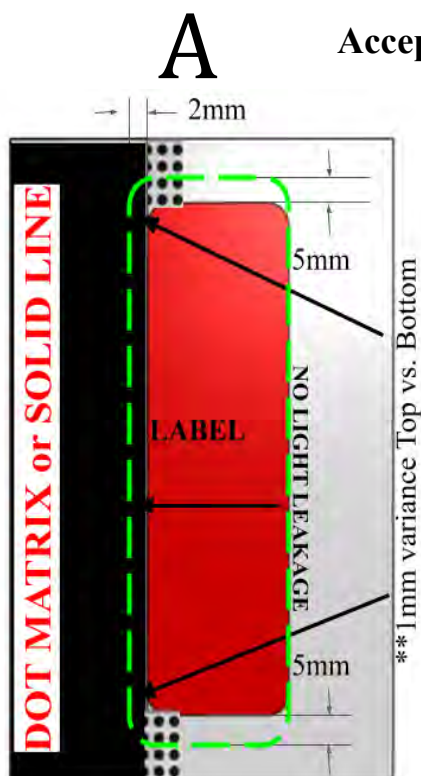
(b) Bundle & secure the TKP Vehicle Harness wires to the factory harness at connector JG1 with three (3) of the supplied 8" zip ties as shown. Figure 44.

(c) Make sure the inline fuse is accessible so that it can be serviced without removing any zip ties.

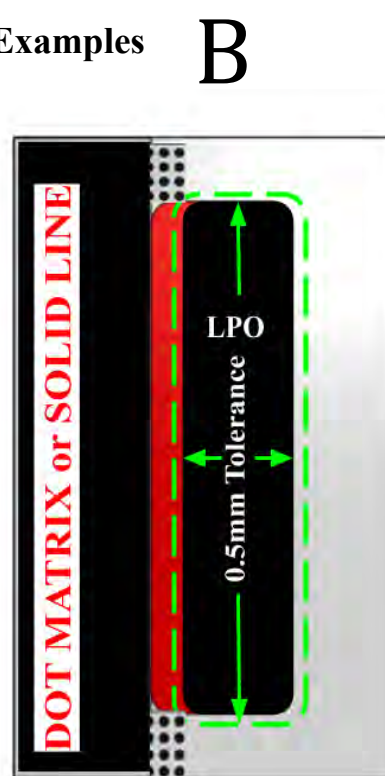
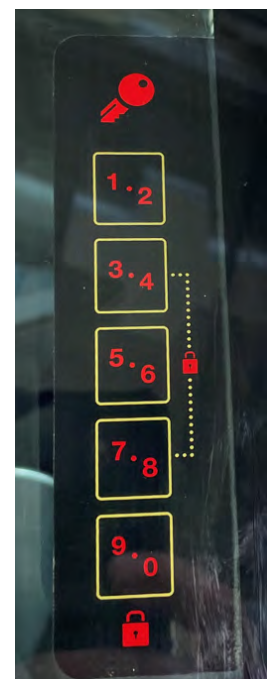
(d) Snip excess zip tie lengths.

BUTTON STICKER & BACKHOUSING APPEARANCE STANDARDS

#	Inspection Item	OK Criteria	Photo Reference
1	Window Label Vertical Alignment	<ul style="list-style-type: none"> • +/- 5mm from target 	A
2	Window Label Horizontal Alignment	<ul style="list-style-type: none"> • +/- 2mm from target • No light leakage between Label & Solid Black Out • Dot Matrix +/- 0.5mm 	A
3	Backhousing Vertical & Horizontal Alignment	<ul style="list-style-type: none"> • +/- 0.5mm from target 	B
4	Window Label Visual Defects	<ul style="list-style-type: none"> • Viewed from a customer viewing angle of 18 inches 	C, D, E, F, G
5	Visual Defect White Blotch Glue Wet Out	<ul style="list-style-type: none"> • 3 PCS +/- 0.5mm 	
6	Dust/Dirt/Seed	<ul style="list-style-type: none"> • 1 PCS +/- 1mm 	
7	Ghosting	<ul style="list-style-type: none"> • Contrasting Color 1 PCS +/- 1mm • Non-Contrasting Up to the width of the label 	
8	Ghosting on solid black Out tape	Contrasting-uniform line the length of the label +/- 2.5mm from the edge of the tape.	H
Note: Inspection Items 5, 6, and 7 Can Not be combined on the label.			



Acceptable Examples

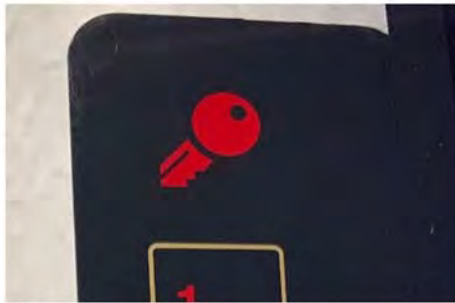
**H**

Unacceptable Examples

C

*C: Adhesive Marring*

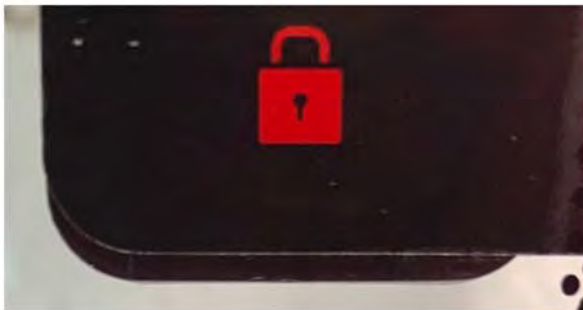
D

*D: Adhesive Tack Point*

E



F

*F: Vertical Backhousing Alignment*

G

*G: Label Edge Imperfection*

H: Ghosting/Contrasting-un-uniform line the length of the label +/- 2.5mm from the edge of the tape.





Figure 45a.



Figure 45b.



Note: Accessory and vehicle windshield surface must be at least 50°F at time of installation.



Use magnetic Windshield QC Scale.



Clean the roof panel directly above the windshield to prevent scratches from the magnetic Windshield QC Scale.

25. LOCATE THE TKP BACKHOUSING TOP EDGE ON WINDSHIELD

(a) Place the magnetic Windshield QC Scale on the windshield next to the A-pillar as shown. Figure 45a.

(b) Locate the magnetic Windshield QC Scale on the windshield by aligning the Windshield 3" line at the top edge of the windshield.

(c) Locate the top edge of the TKP Backhousing on the windshield at the indicated RAV4 16" line. Figure 45b.

Hint:

The magnetic Windshield QC Scale is printed on both sides and can be seen from inside the vehicle.

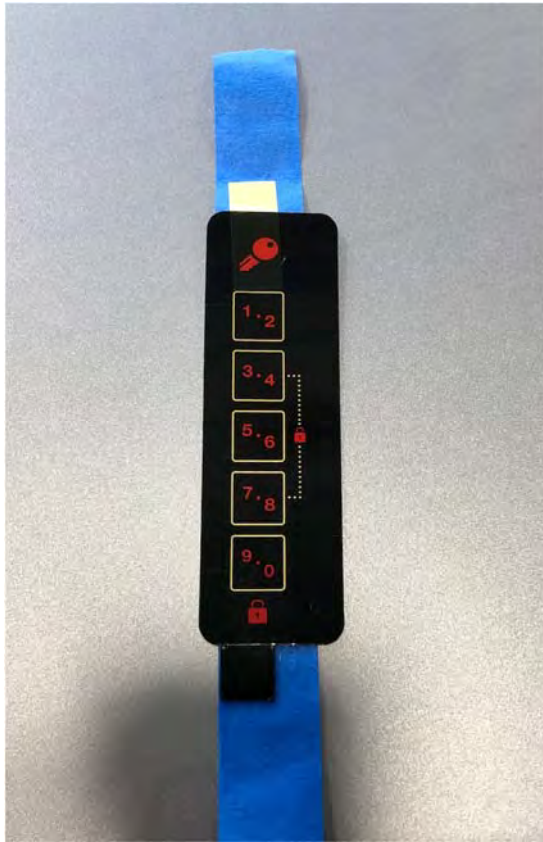


Figure 46



Figure 47

26. AFFIX THE KEYPAD BUTTON GRAPHIC STICKER TO THE INSIDE OF THE WINDSHIELD



Use Masking Tape.



Make sure the inside windshield mounting location for the TKP Back housing is clean.



Refer to page 34 and 35 for QA Standards before affixing the Graphic Sticker to the inside of the windshield.

(a) Apply a strip of masking tape on to the backside of the Keypad Button Graphic Sticker. Figure 46.

(b) Using the YELLOW pull tab, uncover the top portion of adhesive on the graphic side of the Button Sticker.

(c) Holding onto the masking tape, carefully align the top edge of the Keypad Button Graphic Sticker to the RAV4 16" mark on the magnetic Windshield QC Scale. Figure 47.

(d) At the same time carefully align the left edge of the Button Sticker with the windshield blackout next to the A-pillar.

(e) Once properly positioned, tack the top edge of the Button Sticker to the windshield using light pressure.

(f) Using the YELLOW pull tab, remove the protective film completely from the graphic side of the Button Sticker.

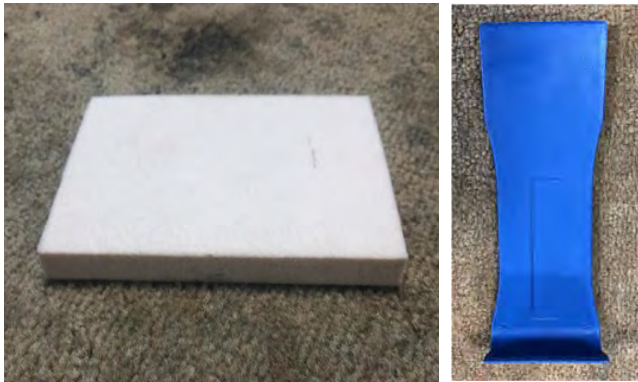


Figure 48

 **Use a Felt block or wide Moulding Remover. Figure 48.**

(g) Smoothly & forcefully press the Moulding Remover down the length of Button Sticker.

Hint:

This can be done from the top or center of the Button Sticker.



Figure 49

(h) Make multiple passes over the Button Sticker to achieve maximum wet-out. Figure 49.

(i) Carefully press out any air bubbles or ghost marks using the Moulding Remover.

(j) Remove the strip of blue masking tape.



Inspect any imperfections in the wet-out against the QC Acceptance Criteria. If Button Sticker does not meet criteria, remove Button Sticker and re-apply new one that meets specification.

(k) Using the bottom BLACK pull tab, remove the protective film from the backside of the Button Sticker.

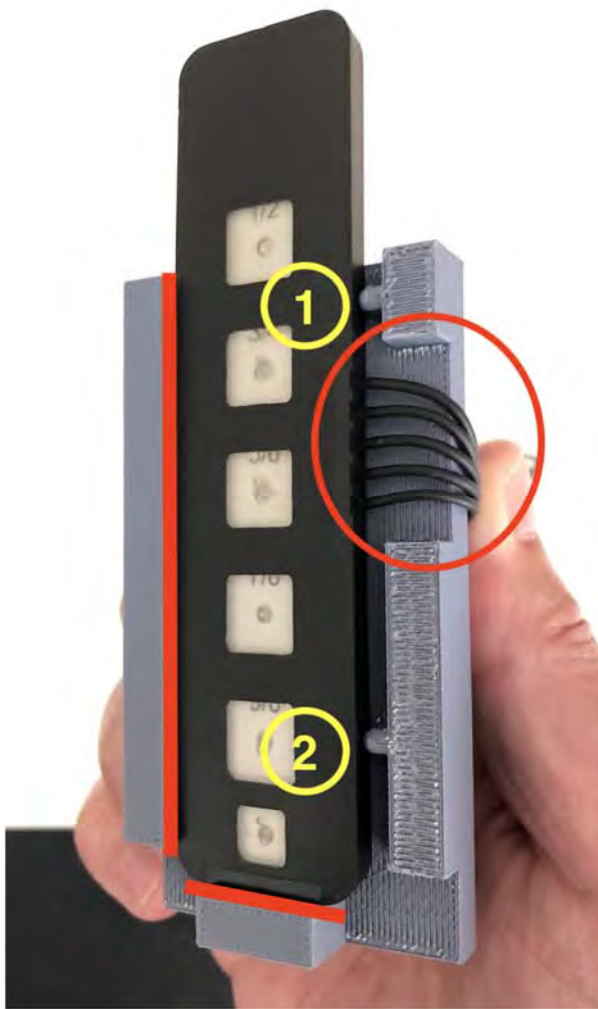


Figure 50

27. AFFIX THE TKP BACKHOUSING TO THE KEYPAD BUTTON GRAPHIC STICKER



Use the Backhousing Alignment tool.



Keep the LED light surface of the TKP Backhousing clean by only handling the sides.

(a) Place the TKP Backhousing into the Alignment Tool as shown. Figure 50.



Insure the TKP Backhousing is pressed securely into the Alignment Tool along the highlighted surfaces and held in place by the two lock tabs #1 & #2.

Hint:

The TKP Backhousing can be held more securely by pinching the sides of the Alignment Tool together.

(b) Bend the Pigtail Harness back 90-degrees and hold it with your thumb as shown. Figure 50.

Hint:

It may be easier to route the pigtail harness under the factory harness along the A-pillar at this point.



Figure 51

(c) Place the Alignment Tool & TKP Backhousing assembly against the windshield next to the Button Sticker to the lower RH side as shown. Figure 51.



Keep the assembly pressed firmly against the windshield during the following steps.

(d) From inside the vehicle, carefully slide the assembly LEFT towards the A-pillar until it stops against the long-side edge of the Button Sticker.

(e) Carefully slide the assembly UP until it stops against the bottom edge the Button Sticker.



Visually check that the Backhousing is aligned with the Button Sticker.

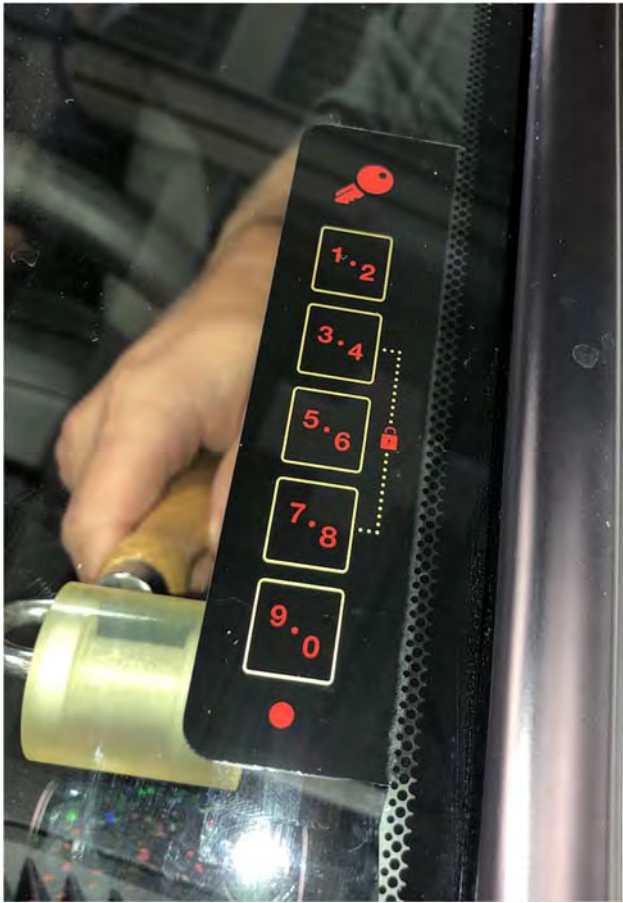
(f) Press the top of the Backhousing against the Button Sticker to release it from the Alignment Tool.

Hint:

At this point if necessary, you can still lift the Backhousing from the Button Sticker and adjust the alignment manually.



Inspect any misalignment of the Back housing against the QC Acceptance Criteria. If the back housing does not meet criteria it must be replaced. You CAN NOT make adjustments to Housing once its adhered to the Button Sticker.



(g) Using your thumb, press at three or four points along the Backhousing against the Button Sticker to firmly set it.



Do not press the Program Button. Use the Roller.

(h) Firmly press the Roller along the complete length of the Backhousing at least four (4) times to achieve maximum adhesion between the Backhousing and the Button Sticker. Figure 52.

Figure 52



Figure 53

28. SECURE THE TKP VEHICLE HARNESS MOLEX 5-PIN CONNECTORS

- (a) Route the TKP Molex (male) connector on the Backhousing pigtail around the back of the factory harness and pull the Backhousing pigtail down snugly.
- (b) Connect the TKP Molex (male) connector on the Backhousing pigtail to the TKP Vehicle Harness (female) Molex 5-pin Connector P2.
- (c) Secure the TKP Vehicle Harness wires to the factory harness at the A-pillar with a supplied 8" zip tie as shown. Figure 53.
- (d) Snip excess zip tie length.

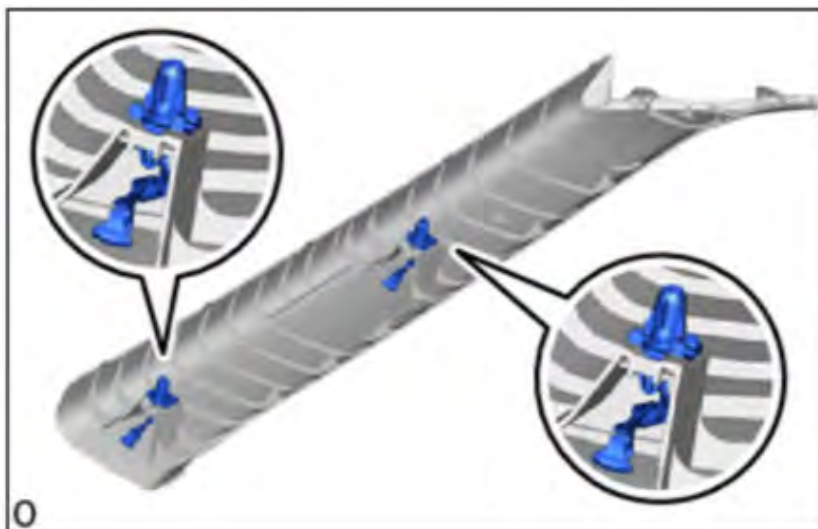
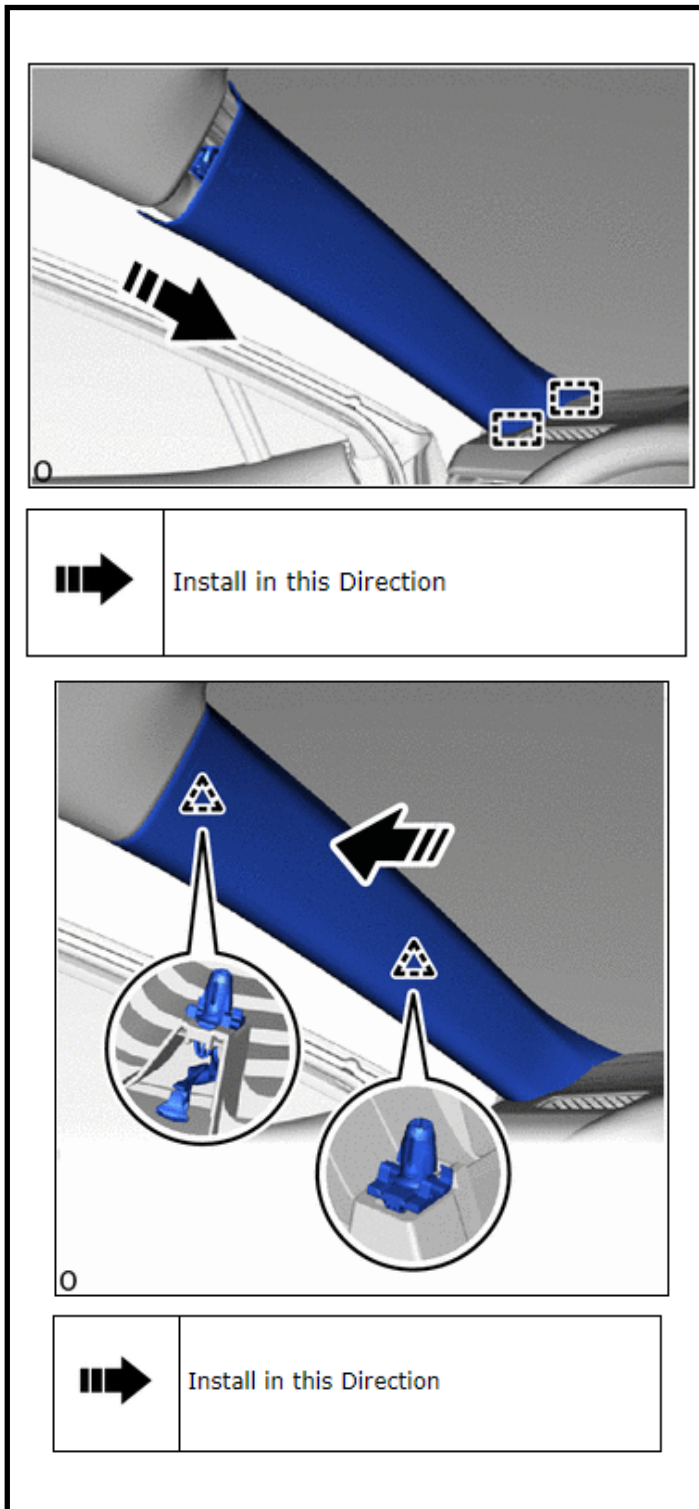


Figure 54

29. INSTALL FRONT PILLAR GARNISH LH

- (a) Install new 2 front pillar garnish clips to the front pillar garnish LH. Figure 54.

Note: Make sure that the position and direction of the front pillar garnish clip is correct when installing.



30. Insert the guide in the direction indicated by the arrow shown in the illustration. Push in the direction indicated by the arrow shown in the illustration to attach the clip to install the front pillar garnish LH. See Figure 55.



Do not re-use the front pillar garnish clip.
Part Number 62217-42050

INSTALL INTERIOR PANELS AND TRIM

- (a) Connect the connectors and attach the clamp.
- (b) Install the fuse box opening panel and install bolt.
- (c) Attach the guide and claw to install the fuel lid lock open lever sub-assembly.
- (d) Attach the guide and claw to install the hood lock control lever sub-assembly.
- (e) Attach the clip to install the instrument side panel LH.
- (f) Connect Foot Light connector if applicable. Install Clamp. Install the No. 1 instrument panel under cover sub-assembly.
- (g) Install LH Cowl Cover.
- (h) Install LH Front door Scuff Plate.

Figure 55



Figure 56

RE-INSTALL BATTERY



Use 10mm socket & torque wrench.

31. Reconnect the negative battery cable.
Figure 56.



Torque: 48 in•lbs [5.4 N•m]



Caution: DO NOT touch the positive terminal.



When disconnecting the cable, some systems need to be initialized after the cable is reconnected.

32. Print Warranty Statement and place in the glove box, DIO only.

FUNCTION AND QUALITY CHECK

CHECKLIST - these points MUST be checked to ensure a quality installation.

ACCESSORY FUNCTION CHECK:

With Keys out of the vehicle and the Driver Side window in the down position.

LOOK FOR:**TKP FUNCTION CHECK:****1) First Time Use**

- a. To guard against accidental lock, the Keypad awakes inactive.
- b. In this state, the confirmation and digit button LEDs quickly flashes three (3) times when awoke to signal there is no Access Code programmed.
- c. Then Keypad will immediately re-enter the sleep state.

2) Set 5-digit Access Code

- a. Press the Program button.
 - i) Digit confirmation LED and all digit button LEDs illuminate.
- b. Enter the 5-digit Access Code 1-3-5-7-9.
 - i) Confirmation LED flashes with each accepted digit entry.
 - ii) When the new 5-digit Access Code is set, all Keypad LEDs quickly flash three times.
- c. Keypad allows 20 seconds after each touch to enter a new code.
- d. If you enter an incomplete or incorrect Access Code, simply press the Program button and repeat the steps above.

3) Lock All Doors

- a. Using multiple finger tips, touch any of the digit buttons to wake up the Keypad.
- b. Touch & hold the 3/4 & 7/8 digit buttons simultaneously.
 - i) Confirmation LED quickly flashes five (5) times.
 - ii) You should also hear all doors lock. (background noise permitting)
- c. Keypad goes to sleep (all digit button LEDs turn off) after about 10 seconds.

4) Unlock Driver's Door

- a. Using multiple finger tips, touch any of the digit buttons to wake up the Keypad.
- b. Enter the 5-digit Access Code 1-3-5-7-9.
- c. Confirmation LED flashes with each accepted digit entry.
- d. Confirmation LED flashes long once when the Driver's door is unlocked.
- e. You should hear the Driver's door unlock. (background noise permitting)
- f. All doors unlocked. Enter the 5-digit Access Code 1-3-5-7-9. Hold the 9 Key down for 5 seconds.

5) Turn Key on to Ignition Power


- a. With ignition turned to the on position verify that numbers 1-3-5-7-9 do not illuminate.

Note: The indicator light will flash.


6) Return to Factory Reset State (Keypad Disabled)

- a. Press & hold the Program button for about 10 seconds.
- b. In this state when awoke, the confirmation and digit button LEDs will blink three times to signal there is no code programmed.

7) Check function of all disconnected switches

 User Manual


Place User Manual in the glove box.

 Headrest Hangtag

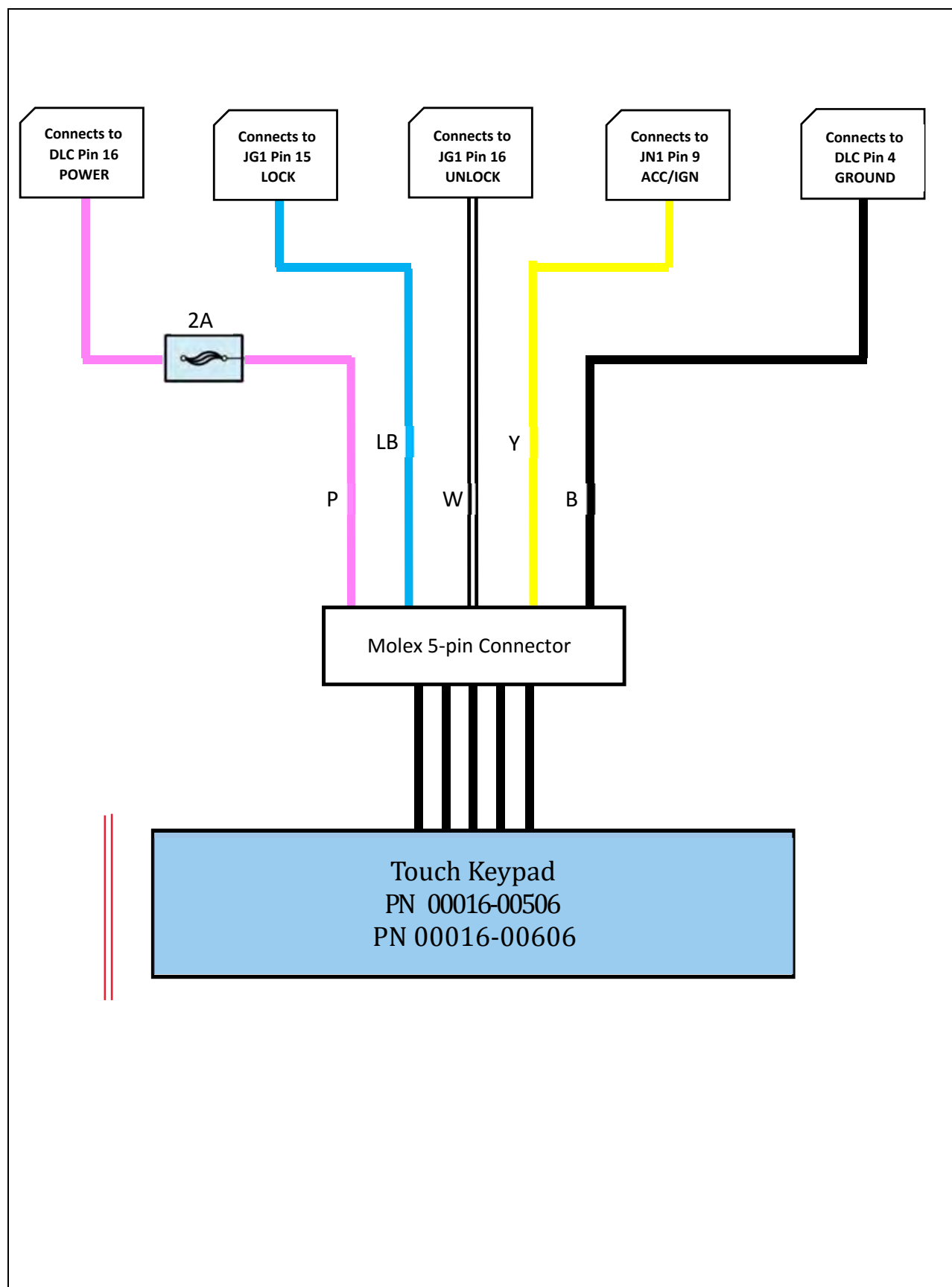
Hang Seat Headrest Hang tag from Passenger seat headrest.

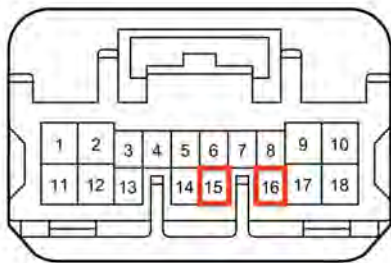
 Check Speaker

Left Front A-Pillar speaker, if applicable.

 Warranty Statement

Place Warranty Statement in the glovebox, DIO only.

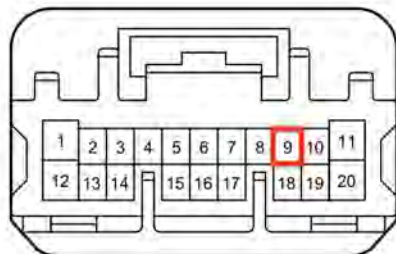


**Connector JG1****Pin 15 LOCK**

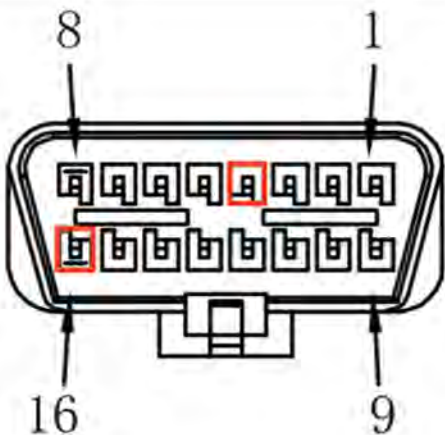
Pin	Wire Color	Test Reference	Proper Operation
15	LG	Pin 15 to Ground	12-14VDC

Pin 16**UNLOCK**

Pin	Wire Color	Test Reference	Proper Operation
16	GR	Pin 16 to Ground	12-14VDC

**Connector JN1****Pin 9****IGNITION**

Pin	Wire Color	Test Reference	Proper Operation
9	LG	Pin 9 to Ground	12V when ACC or IGN is ON



DLC Jumper

Pin 4

GROUND

Pin	Wire Color	Test Reference	Proper Operation
4	B	Pin 4 to Ground	0VDC

Pin 16

POWER

Pin	Wire Color	Test Reference	Proper Operation
16	R	Pin 16 to Ground	Approximately 0VDC when IGN is OFF and +12VDC when IGN is ON

LIMITED WARRANTY – SOUTHEAST TOYOTA

SOUTHEAST TOYOTA DISTRIBUTORS, LLC ("we," "our" and "us") provides the following limited warranty on our accessories, excluding tires, ("Accessories" or "Accessory") installed on a Toyota. This limited warranty is not provided by and does not bind or provide benefit to the vehicle dealer, the manufacturer, or Toyota Motor Sales, U.S.A., Inc. This limited warranty does not apply to tires; please consult the tire manufacturer and/or its materials accompanying the vehicle for any warranty terms concerning tires. This limited warranty also does not apply to ToyoGuard Exterior Paint Sealant and ToyoGuard Interior Protector; please consult the ToyoGuard Limited Warranty Certificate for the warranty terms concerning those products.

SCOPE OF LIMITED WARRANTY:

A. Protection:

- i. **Accessories Installed by Southeast Toyota Distributors, LLC on a new Toyota vehicle.** We warrant that, for a period of 36 months or 36,000 miles, whichever occurs first, we will repair or replace (includes labor), free of charge, any defect in such an Accessory due to faulty material or workmanship, or, at our option, provide a full refund of the purchase price of the Accessory. The warranty period begins on the vehicle's In-Service Date, which is the first date the new vehicle is either delivered to an ultimate purchaser, leased, or used as a company car or demonstrator. Accessories installed by Southeast Toyota Distributors, LLC are identified on the vehicle's window sticker (Monroney Label).
- ii. **Accessories Installed by a Toyota Dealer on a Toyota vehicle.** We warrant that, for 12 months, regardless of mileage, from the date such an Accessory was installed on the vehicle or the remainder of the Toyota new vehicle warranty, whichever is longer, we will repair or replace (includes labor), free of charge, any defect in the Accessory due to faulty material or workmanship, or, at our option, provide a full refund of the purchase price of the Accessory. For a new vehicle, the warranty period begins on the vehicle's In-Service Date, which is the first date the new vehicle is either delivered to an ultimate purchaser, leased, or used as a company car or demonstrator.
- iii. **Accessories purchased from a Toyota Dealer but not installed by the Toyota Dealer.** We warrant that, for a period of 12 months, regardless of mileage, from the date the accessory was purchased, we will repair or replace (does not include labor), free of charge, any defect in the Accessory due to faulty material or workmanship, or, at our option, provide a full refund of the purchase price of the Accessory.

B. Limitation of Warranty. This limited warranty does not apply to, and we will not repair, replace, or reimburse you for: (1) wheel balancing and wheel alignments, except for one wheel balancing or alignment during the first 12 months or 12,000 miles, whichever occurs first, from the vehicle's In-Service Date, as defined above, (2) abrasions or dents, whatever their cause, and any failure or damage resulting directly or indirectly from accidents, collisions, impacts from foreign objects, fire, theft, larceny, explosion, malicious mischief, vandalism, civil commotion, riots, war, or any other similar causes, (3) any failure or damage resulting directly or indirectly from lightning, windstorms, hail, water, floods, subfreezing temperatures, airborne chemicals, tree sap, dust, salt, and any other environmental conditions or similar causes, (4) any failure or damage caused by: (a) a failure of any part, other than the Accessory, (b) any misuse, abuse, improper towing, negligence or lack of maintenance of the vehicle or Accessory, (c) the alteration, modification or repair of the Accessory by anyone other than persons expressly authorized by us to perform such alteration, modification or repair, or (d) the use of the vehicle for commercial purposes, competitive driving or racing, (5) any failure or damage, if the Accessory has not been installed according to instructions, (6) any failure or damage occurring outside of Canada, the United States of America, its territories or possessions, (7) except to the extent required by the state whose laws govern this limited warranty, any consequential, secondary, or unreasonable costs that may be suffered as a result of the need to repair or replace the Accessory, including without limitation any loss of use of the vehicle, road service, towing, storage charges, inconvenience, loss of wages and/or income, additional expense incurred, loss of transportation, rental car expense, or any derivative damage to persons or things other than the Accessory, including other parts of the vehicle, or (8) liability for damage to property or for injury to or death of any person, arising out of the operation, maintenance or use of your vehicle whether or not related to the covered Accessory.

C. Exclusive Remedy. If there is a valid claim under this limited warranty for a defect due to faulty material or workmanship in the Accessory, we will, at our option, either: (i) repair, (ii) replace or (iii) provide a full refund of the purchase price of the Accessory. We have no other obligations under this limited warranty. Refunds will be made to the vehicle owner. If the vehicle is leased, the refund will be made to the leasing company.

HOW TO MAKE A CLAIM: In the event of a warranty claim, please contact the nearest Toyota dealer to arrange for repairs. The dealership must receive our prior authorization before making repairs covered by this limited warranty. The dealer will contact Southeast Toyota Distributors, LLC at 1-888-851-2722, select option #5 (Warranty Department), then option #4 (Repairs), for instructions on processing a warranty claim, if they are not already familiar with the process. If you have any questions or concerns regarding repairs covered by this limited warranty, please contact our **Customer Assistance Hotline at 1-800-301-6859**.

OUR DISPUTE RESOLUTION PROGRAM: Your satisfaction is our highest priority. In keeping with that focus, in the event that an issue arises related to this Limited Warranty, we invite you to call our Customer Assistance Hotline at 1-800-301-6859 to discuss it. In most cases, we expect that a satisfactory resolution of your issue can be reached through engagement with that Department. If our Customer Loyalty Department is unable to resolve your issue to your satisfaction, we offer a dispute resolution program administered by the National Center for Dispute Settlement (NCDS) ("the Program"). The purpose of the Program is to resolve disputes in an informal setting before an impartial arbitrator. The Program is free of charge to you (although you must bear the cost of any expert witness or attorney you elect to employ). You are required to complete the Program before exercising rights or seeking remedies under the federal Magnuson-Moss Warranty Act, 15 U.S.C. § 2301 et seq. ("the Act"). If you choose to seek remedies that are not created by the Act, you are not required to use the Program before pursuing such remedies – although the Program is still available to you to resolve the dispute. When utilizing the Program, you will need to provide (a) the vehicle identification number of your vehicle, (b) the identity of your selling and servicing dealerships, (c) the mileage on your vehicle at relevant times, (d) the date and nature of any relevant repairs, (e) legible copies of repair orders and other relevant documents, (f) a summary of the unresolved issue and the requested action, and (g) your contact information. In most cases, the dispute resolution process under the Program will be completed within forty (40) days of your submission of your request and will consist of steps such as an initial eligibility determination, an opportunity for you and us to submit information in writing relating to your claim, an oral hearing, and a decision from the arbitrator. A decision will be binding on you only if you choose to accept it. You may submit a request to NCDS by telephone at their toll free number: (877)-276-8848 or in writing at P.O. Box 463196, Mt. Clemens, MI 48046. You may obtain additional information regarding the Program at www.ncdsusa.org. In the event that the NCDS does not exist or no longer handles disputes for us at the time that you seek to submit a request, you may contact our **Customer Assistance Hotline at 1-800-301-6859** to obtain current information about our dispute resolution programs.

GENERAL LIMITATION OF WARRANTY: THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES OR LIABILITIES. IN NO EVENT SHALL WE BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSIONS OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE INFORMATION OR EXCLUSION MAY NOT APPLY. NO EXPRESS WARRANTY OF FITNESS OR MERCHANTABILITY IS GRANTED BY THIS LIMITED WARRANTY. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE DESCRIBED IN THIS DOCUMENT. ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH MAY BE APPLICABLE BY OPERATION OF LAW SHALL BE LIMITED TO THE PERIOD OF THIS WRITTEN LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY. THIS LIMITED WARRANTY PROVIDES SPECIFIC LEGAL RIGHTS, AND THERE MAY BE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, MUST BE BROUGHT WITHIN A PERIOD NOT EXCEEDING 12 MONTHS AFTER EXPIRATION OF THIS LIMITED WARRANTY. THE REMEDIES SPECIFIED HEREIN AND THOSE SPECIFIED BY APPLICABLE LAW ARE THE ONLY REMEDIES AVAILABLE. WE ASSUME NO OTHER OBLIGATION OR RESPONSIBILITY WITH REGARD TO THE ACCESSORY. WE NEITHER ASSUME, NOR AUTHORIZE ANYONE TO ASSUME FOR US, ANY ADDITIONAL LIABILITY IN CONNECTION HERewith.

GENERAL: This limited warranty describes the complete and exclusive rights that result from the purchase of Accessories. No oral representations or statements may be relied upon. This limited warranty may not be amended or modified, and additional rights may not be granted, unless in a written statement signed by one of our officers. This limited warranty shall be governed by the laws of the state where the vehicle is purchased, excluding laws concerning conflicts of law. We may delegate the performance of our duties and obligations and assign our rights and benefits hereunder. For inquiries regarding this limited warranty, we can be contacted directly at **Customer Assistance Hotline at 1-800-301-6859**, or by mail to: **Southeast Toyota Distributors, LLC, Attention: Customer Loyalty Department, 100 Jim Moran Boulevard, Deerfield Beach, Florida 33442.**