



## Southeast Toyota Distributors, LLC Accessory Installation Instructions

### 2020 HIGHLANDER TOUCH KEYPAD (TKP)

Year & Model:	2020 HIGHLANDER
Part Number:	00016-00506
Accessory Code:	KP2000
PIO / DIO:	PIO & DIO
Business Partner:	J56

### Conflicts

Note: None

### General Applicability

Fits Models:	
1.	All Models
2.	
3.	

### Additional Items Required For Installation

Item#	Description:
1	A-Pillar Clips 62217-11020 (2)
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	
Back housing Alignment Tool	Windshield QC Scale
Temperature probe/Heat Gun	
Installation Tools	
Heat Source	For Temperatures under 50°F
Molding 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	

### Legend

	<b>STOP:</b> Damage to the vehicle may occur. Do not proceed until process has been complied with.
	<b>OPERATOR SAFETY:</b> Use caution to avoid risk of injury.
	<b>CAUTION:</b> 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.
	<b>TOOLS &amp; EQUIPMENT:</b> Used in figures calls out the specific tools and equipment recommended for this process.
	<b>REVISION MARK:</b> This mark highlights a change in installation with respect to previous issue.
	<b>SAFETY TORQUE:</b> This mark indicates that torque is related to safety.
	<b>REGULATORY MARK:</b> This mark indicates that the component is related to regulatory compliance.
	<b>VIDEO:</b> This image indicates a video to show a installation procedure, PIO Only.

**Document Version History**

Version	Date	Description of Changes Made
Ver.1	07/30/2020	Document Published

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**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	Installation Tool Kit
2.	1	00016-00506-DL	DIO-Touch Key Pad Kit
3.	10	00016-00506-BS	DIO-X10 Stickers



Item 1.



Item 2.



Item 3.



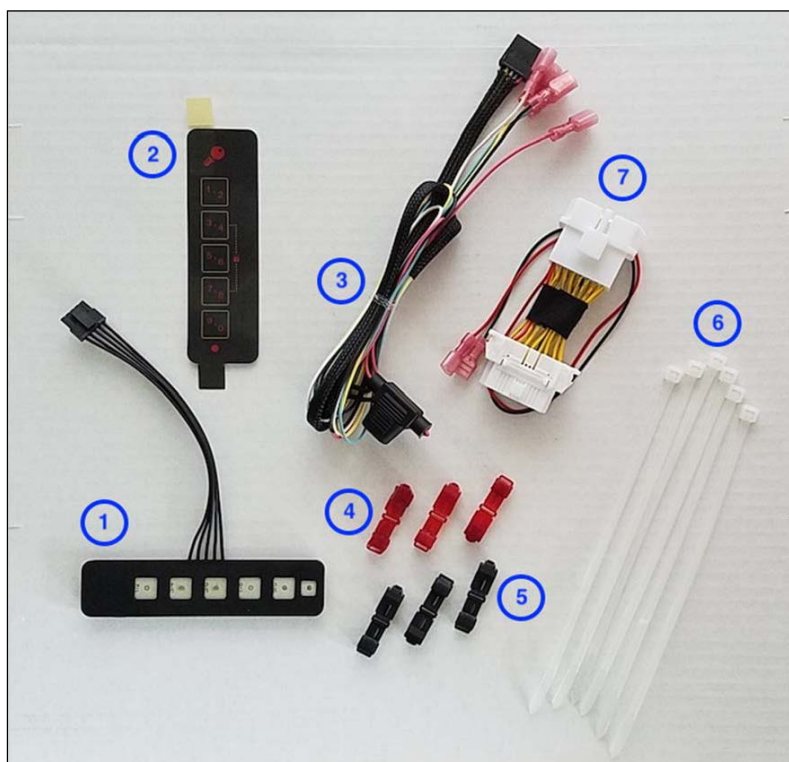
**Parts for Installation:**

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
3.	1	TKP Vehicle Harness
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7.	1	DLC Power & Ground Jumper
8.	1	User Manual
9.	1	Seat Headrest Hangtag



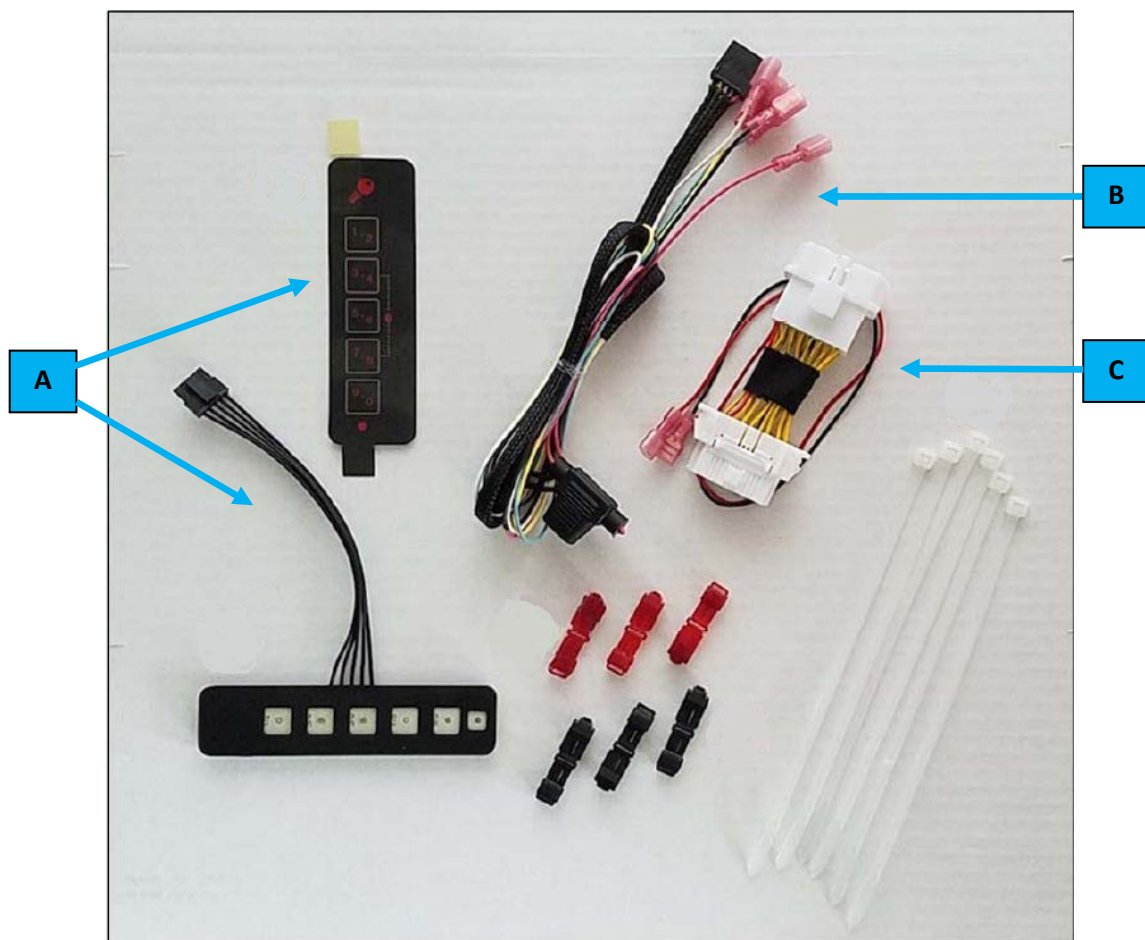
## Service &amp; Warranty Information

Image Key	Parts information		Warranty Information	
	Part Number	Description	Warranty Time	Labor Op. Code
N/A	00016-00506	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](mailto:Accessory.Warranty@SEToyota.com) for claim payment instructions.

**Image:**



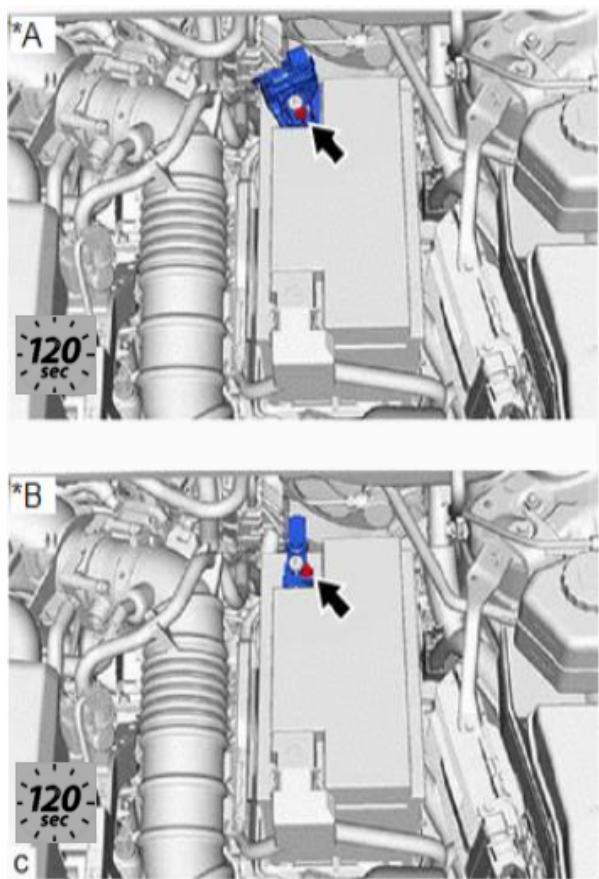
## 1. Starting Procedures

### NOTICE:

After the ignition switch is turned off, keys removed from ignition and or smart key removed from vehicle.

NOTE: Wait at least 120 seconds before disconnecting the cable from the negative (-) auxiliary battery terminal.

### DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL



Prepare for the Installation:

- Place the vehicle in park and set the emergency brake.
- After the ignition switch is turned off, keys should be removed from ignition and or smart key removed from vehicle.
- Protect the fender.

**Note** the battery terminal position as it will be re-installed in the same position.

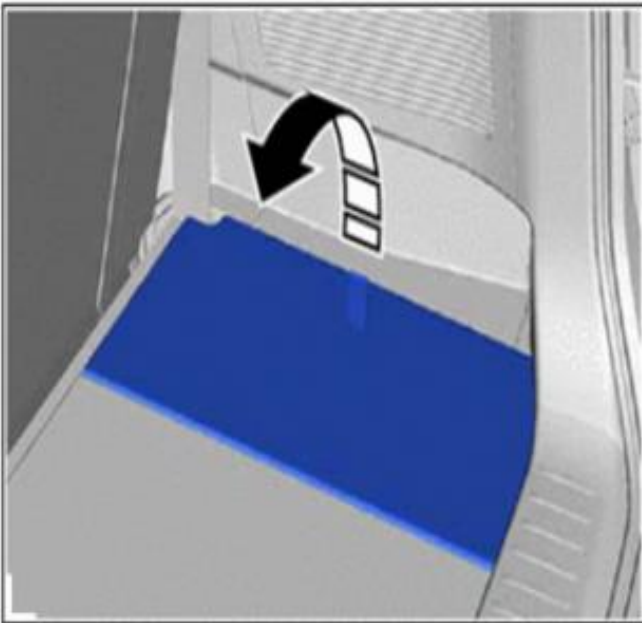
- Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.



Failure to carry out procedures listed below could result in possible deployment of airbag, personal injury, or unnecessary repair to SRS.

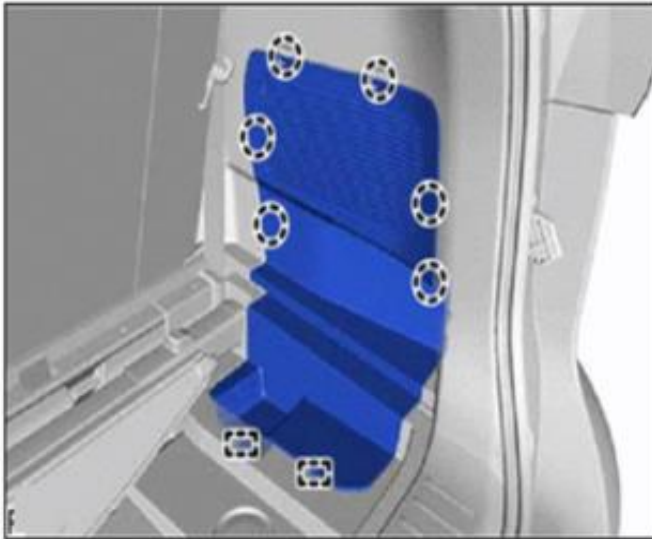
- Disconnect the negative Battery Terminal.

*A	w/ Stop and Start System
*B	w/o Stop and Start System

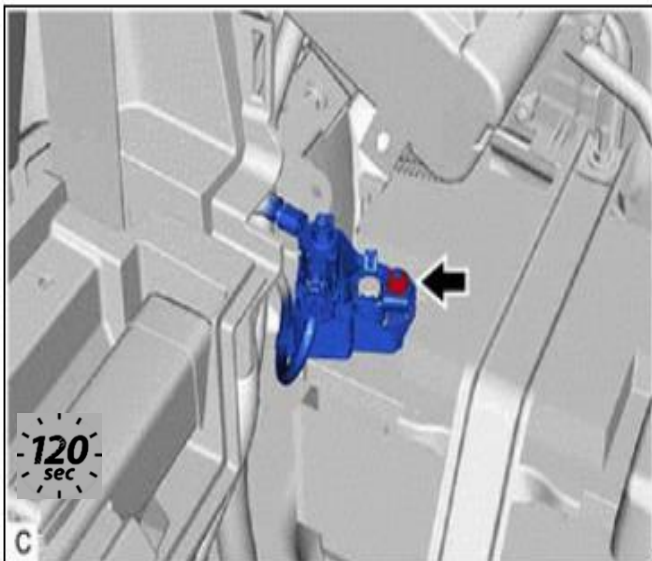


**Hybrid Models**  
**REMOVE BATTERY SERVICE**  
**HOLE COVER**

(a) Turn back the deck board assembly as shown in the illustration.



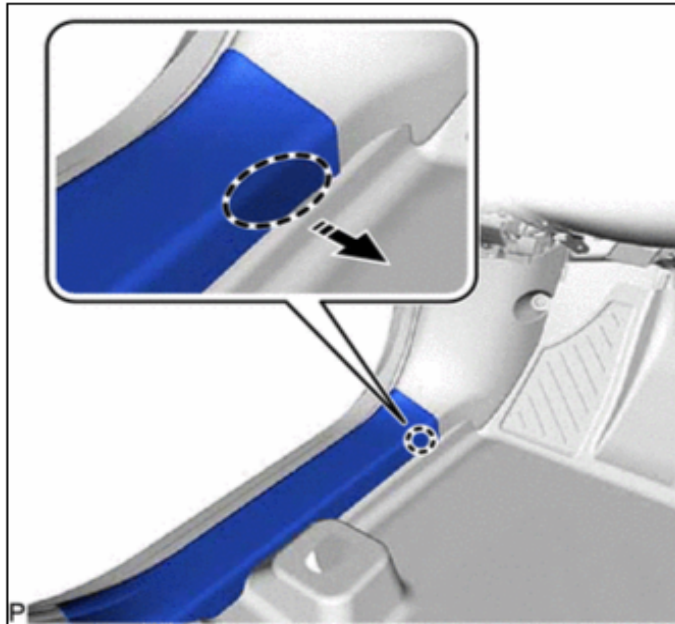
(b) Disengage the 6 claws and 2 guides to remove the battery service hole cover.





**DISCONNECT CABLE FROM**  
**NEGATIVE AUXILIARY BATTERY**  
**TERMINAL**

Loosen the nut, and disconnect the cable from the negative (-) auxiliary battery terminal.





	Place Hand Here
	Remove in this Direction

**Figure 2**

## VEHICLE DISASSEMBLY- INSTALLATION PROCESS

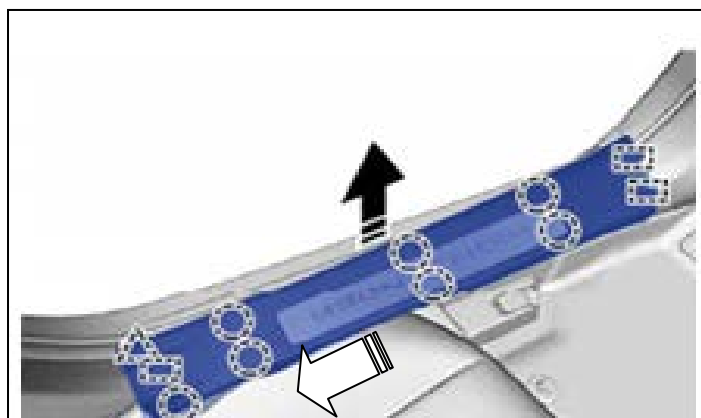


Place a protective blanket in the front foot well area.

### 2. REMOVE FRONT DOOR SCUFF PLATE LH

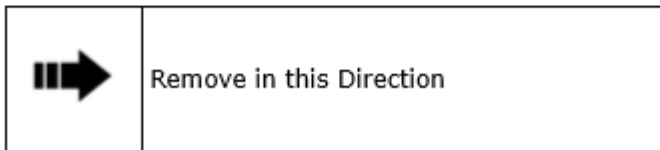
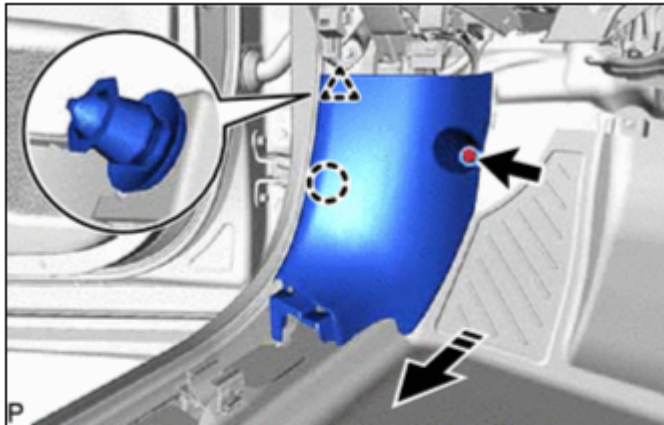
(a) Disengage the claws as shown in the illustration.

Figure 2.



**Figure 3**

(b) Disengage the 7 claws and 3 guides to remove the front door scuff plate by lifting up to disengage clips then back to remove LH. Figure 3

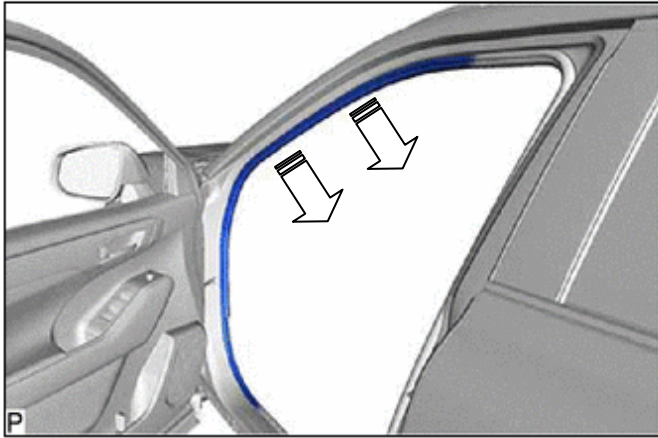


*Figure 4*

### 3. REMOVE COWL SIDE TRIM SUB-ASSEMBLY LH

(a) Remove the retainer clip.

(b) Disengage the claw and clip to remove the cowl side trim sub-assembly LH as shown in Figure 4.

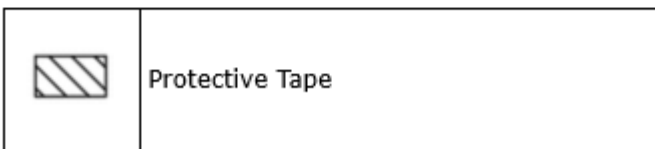
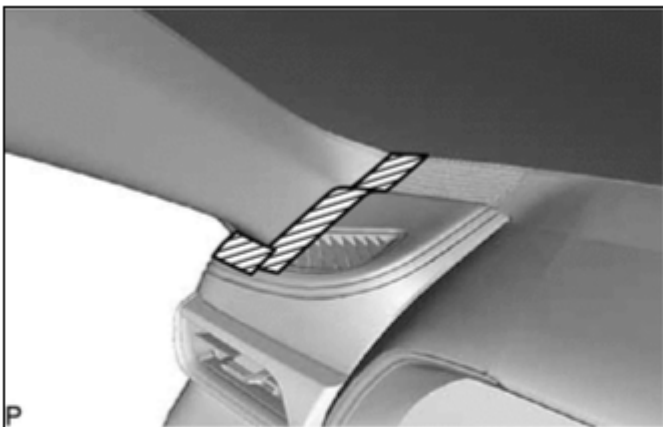


**Figure 5**

#### 4. DISCONNECT FRONT DOOR OPENING TRIM WEATHERSTRIP LH

(a) Optional Step:

Partially disconnect the front door opening trim weather-strip LH. **Figure 5**



**Figure 6**

#### 5. REMOVE FRONT PILLAR GARNISH LH

(a) Apply protective tape around the front pillar garnish LH as shown. Figure 5.)

(b) Pull the upper part of the front pillar garnish LH towards the inside of the cabin to disengage the front pillar garnish LH from the base of the 2 front pillar garnish clips. **Figure 6**

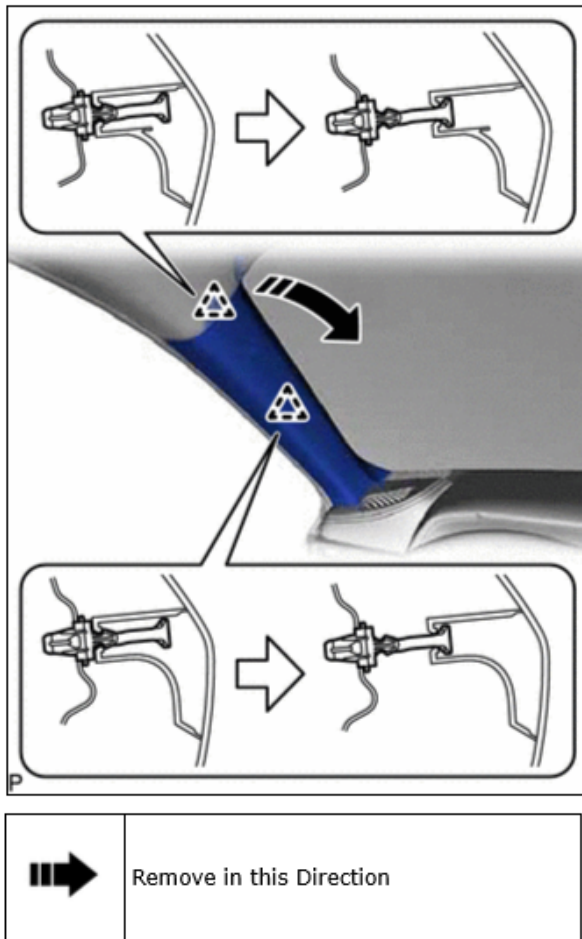


Figure 7a

(c) While pushing the tabs of the front pillar garnish clip disengage it. Figure 7a

## NOTICE

- A front pillar garnish clip (A and b ) are **Not reusable** even if it they are not damaged.
- Replace both front pillar garnish clips with new ones.

**Figure 7b. P/N: 62217-11020**

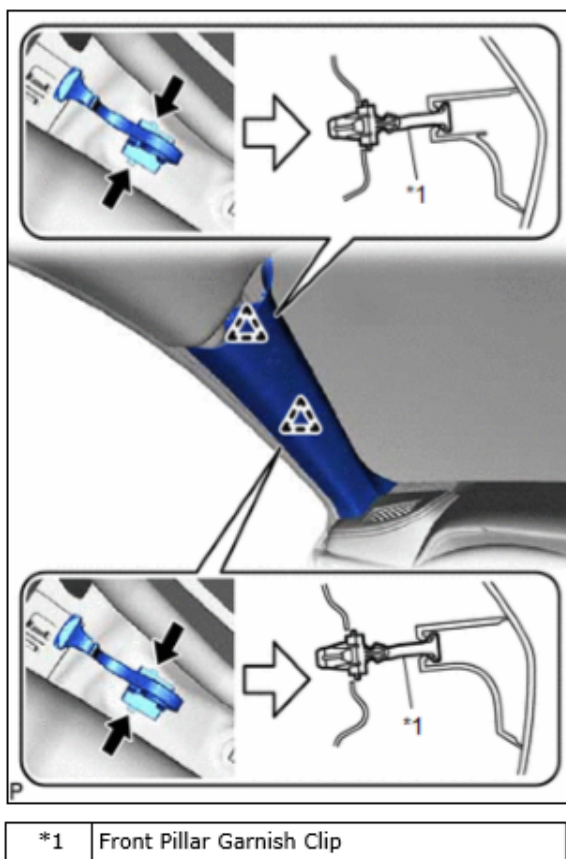
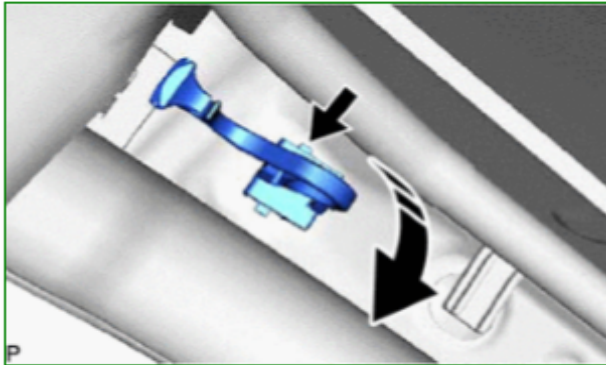


Figure 7b

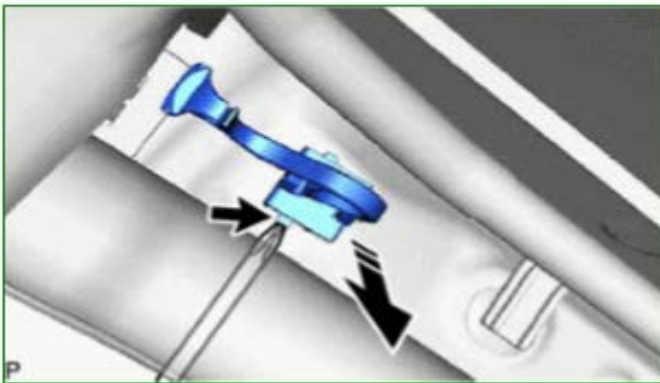


*Figure 8*

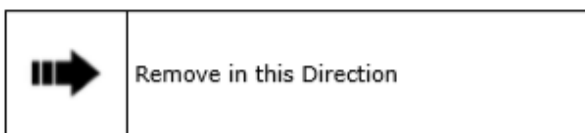
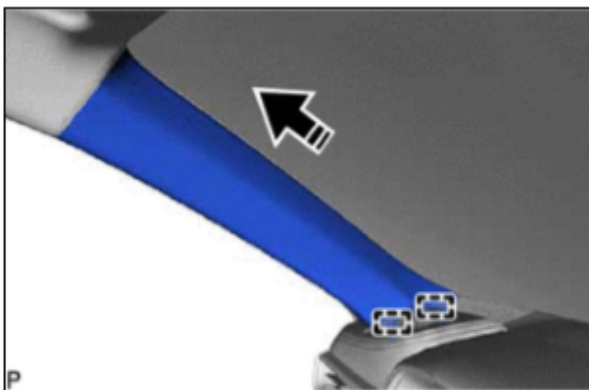
**HINT:** When the front pillar garnish clip cannot be disengaged easily:

d. While pushing the tab of the front pillar garnish clip shown in the illustration with your finger, move the front pillar garnish clip in the direction shown in the illustration.

Figure 8

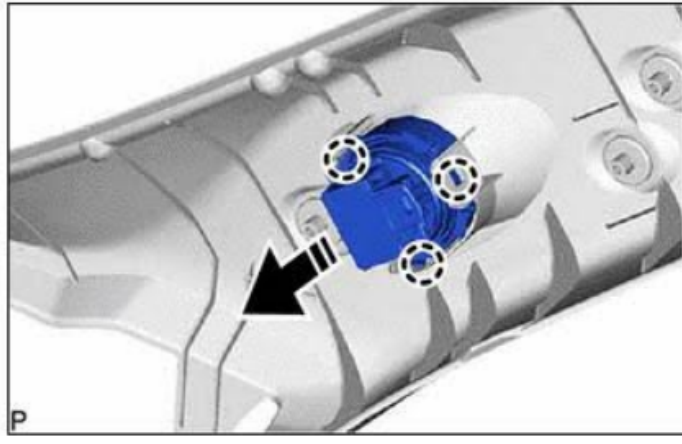
*Figure 9*

(e.) While pulling the front pillar garnish clip as shown in the illustration, push the tab of the front pillar garnish clip shown in the illustration with a screwdriver and disengage the front pillar garnish clip. Figure 9

*Figure 10*

(f) Disengage the 2 guided to remove the front pillar garnish assembly LH as shown in the illustration.

Figure 10



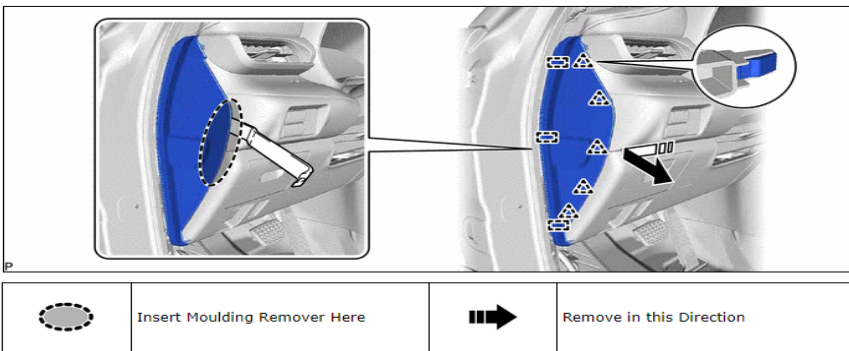
**Figure 11**

(e) w/Front No. 3 speaker:

(1) Disconnect the connector

**Figure 11.**

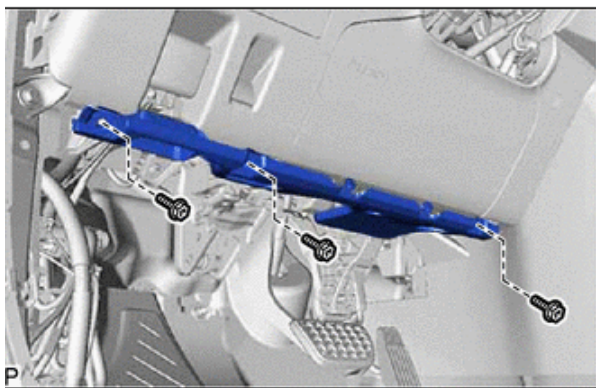
- Reconnect prior to completion.



**Figure 12**

## 6. REMOVE INSTRUMENT PANEL FINISH PANEL END LH

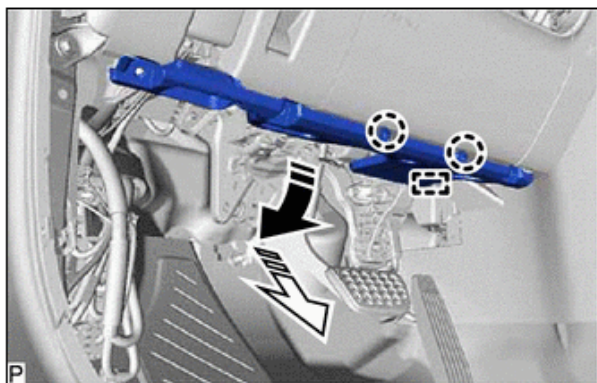
Using a molding remover, disengage the 5 clips and 3 guides as shown in illustration to remove the instrument panel finish end panel LH and remove the instrument panel finish panel end LH as shown in **figure 12**.

**Figure 13**

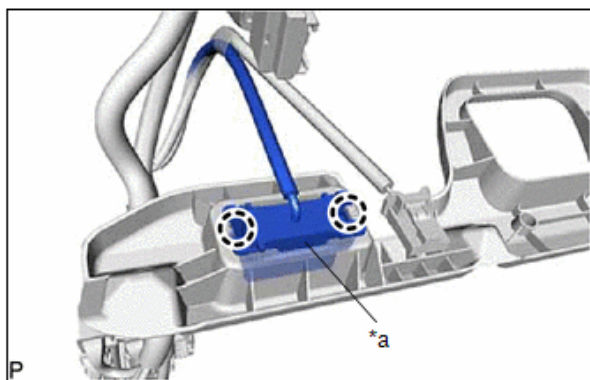
## 8. REMOVE NO 1, INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY

(a) Remove the 3 screws. **Figure 13**

(b) Pull the No. 1 Instrument panel under cover sub-assembly in the direction indicated by the arrow (1) shown in the illustration to disengage the 2 claws. **Figure 14**



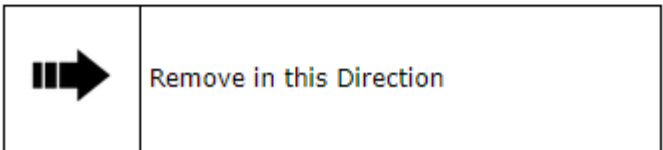
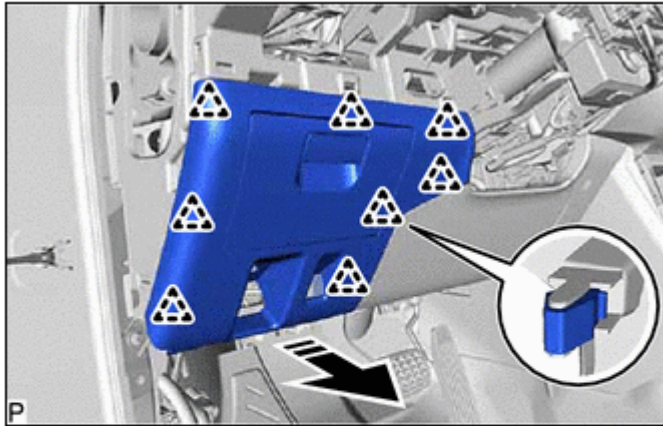
	Remove in this Direction (1)
	Remove in this Direction (2)

**Figure 14**

*a	DLC3
----	------

(c) Disconnect the 2 claws and remove the DLC3. **Figure 15**

**Figure 15**



**Figure 16**



**Figure 17**

### **9. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY**

- (a) Disengage the 8 clips by pulling slightly from the top edge of panel then bottom as shown in the illustration. **Figure 16.**

- (b) Disconnect the connector to remove the lower instrument panel finish panel sub-assembly **Figure 17.**

### **10. DISCONNECT HOOD LOCK CONTROL LEVER SUB-ASSEMBLY**

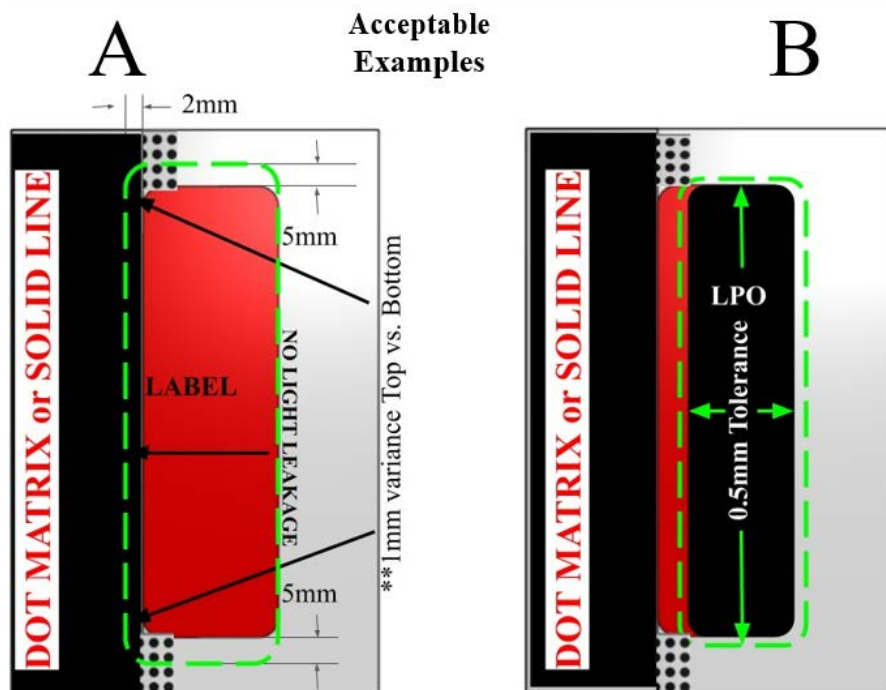
- (a) Disengage the hood release cable

**Note: Apply the red hang tag reminder.**

- (b) Disconnect the fuel door release connector.

**BUTTON STICKER & BACKHOUSING APPEARANCE STANDARDS**

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





C



C: Adhesive Marring

D



D: Adhesive Tack Point

E



E: Light Leakage

F



*F: Vertical Back housing Alignment*

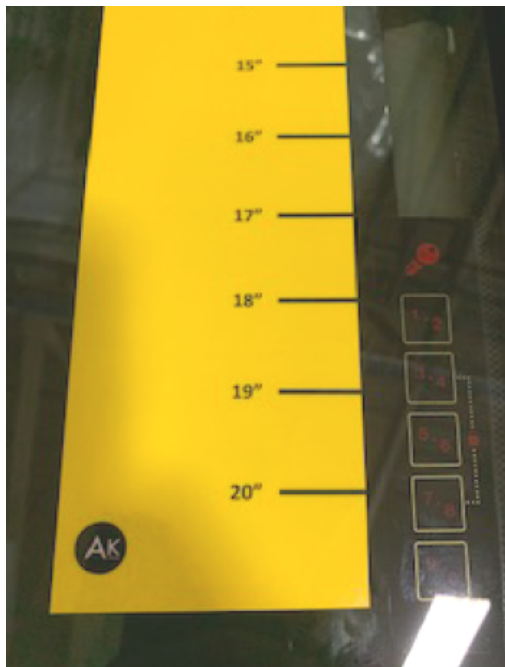
G



*G: Label Edge Imperfectio*



**Figure 18**



**Figure 19**



**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.

## 11. LOCATE THE TKP BACK HOUSING TOP EDGE ON WINDSHIELD

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

**Figure 18**

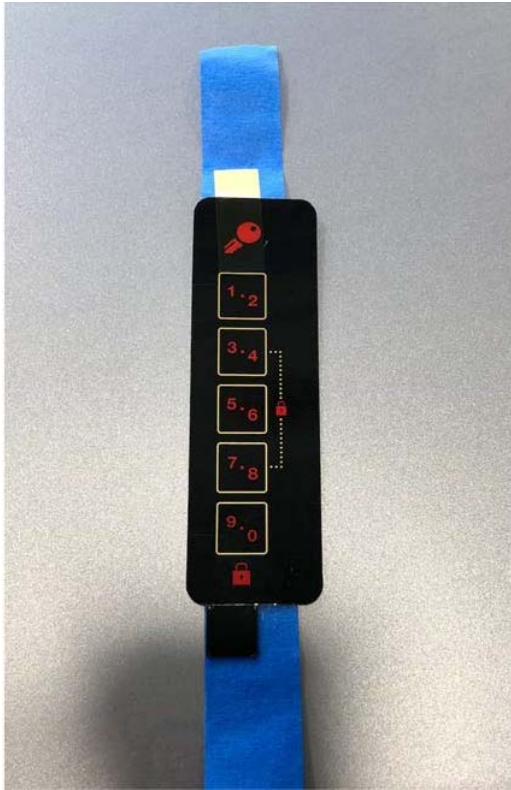
(b) Locate the magnetic Windshield QC Scale on the windshield by aligning the Windshield 0" line at the top edge of the windshield.

(c) Locate the top edge of the TKP back housing on the windshield at the indicated line at 17".

**Figure 19**

**Hint:**

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



**Figure 20**



**Figure 21**



## 12. Use Masking Tape.



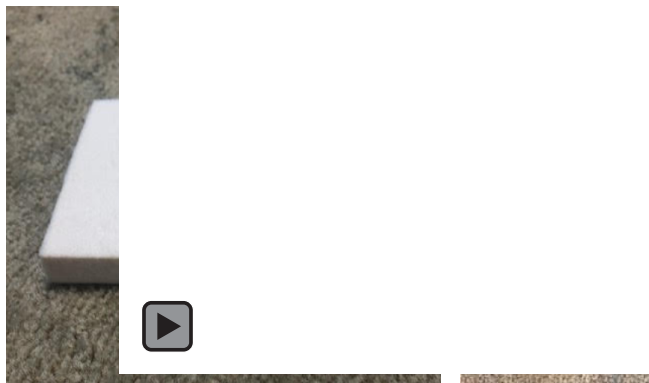
**Make sure the inside windshield mounting location for the TKP Back housing is clean.**



**Refer to page 16 and 17 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 20**
  - (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 17" on the magnetic Windshield QC Scale. **Figure 21**
  - (d) At the same time carefully align the left edge of the Button Sticker with the windshield blackout next to the A-pillar.
- Note: Remember, no light leaks
- (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 22**

Use a Felt Block or wide Moulding Remover. **Figure 22.**

Bothly & forcefully press the Moulding Remover down the length of the Button Sticker.

Must be done from the top or center of the Button Sticker.

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



**Figure 23.**

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

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.

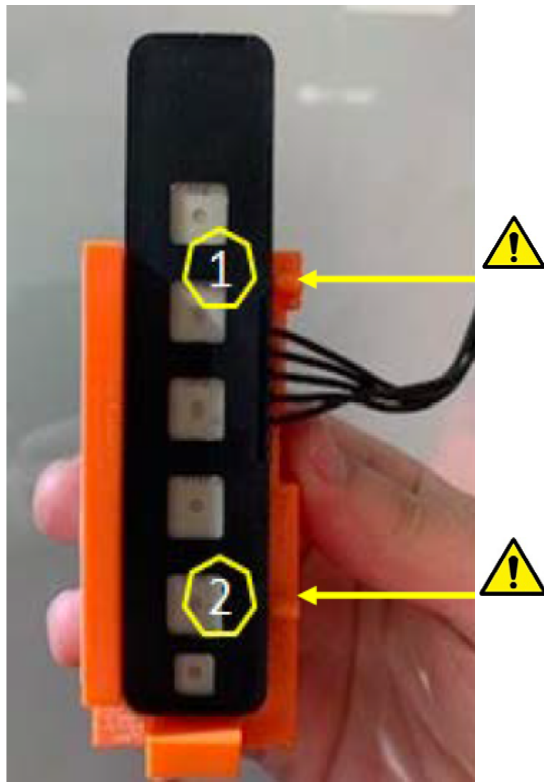
d) Remove the strip of blue masking tape.

• **REFERENCE PAGE 18-19 for criteria**

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



**Figure 23**



**Figure 24**

**14. AFFIX THE TKP BACK HOUSING TO THE KEYPAD BUTTON GRAPHIC STICKER**

(a) Use the back housing alignment tool .

- Keep the LED light surface of the TKP back housing clean by only handling the sides.

(b.)Place the TKP back housing into the Alignment Tool as shown.

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

**Figure 24**

**Hint:**

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

(c.)Bend the Pigtail Harness back 90-degrees and hold it with your thumb as shown. **Figure 25**

**Hint:**

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



Figure 25

- (d) Place the alignment tool & TKP back housing assembly against the windshield next to the button sticker to the lower RH side as shown.

Figure 25



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

- (e) 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.

- (f) Carefully slide the assembly UP until it stops against the bottom edge button sticker.



**Visually check that the back housing is aligned with the Button Sticker.**



- (g.) Press the top of the back housing against the Button Sticker to release it from the Alignment Tool.

**Hint:**

At this point if necessary, you can still lift the back housing 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 it's adhered to the Button Sticker.**

- (h) Using your thumb, press at three or four points along the back housing against the Button Sticker to firmly set it.



**Do not press the Program Button. Use the Roller.**

- (I) Firmly press the Roller along the complete length of the back housing at least four (4) times to achieve maximum adhesion between the back housing and the Button Sticker. **Figure 26.**

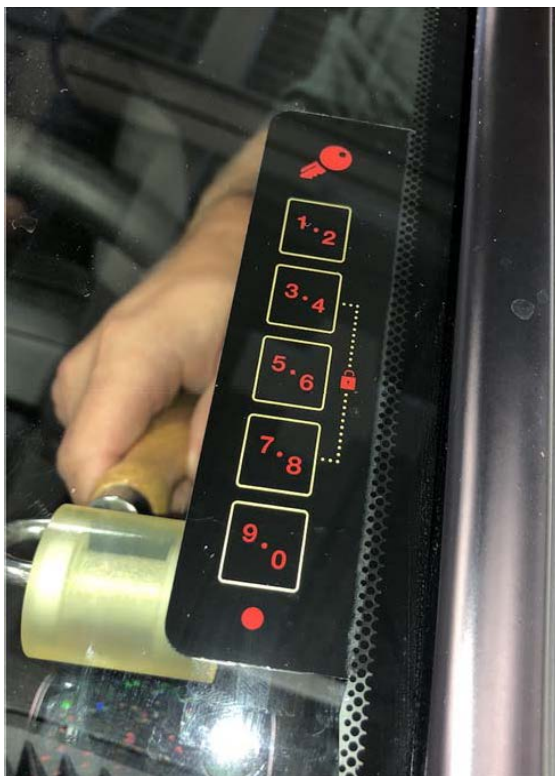
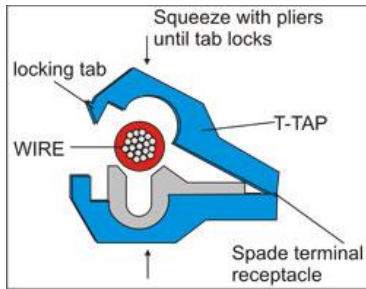


Figure 26

### 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.

#### Step 1



#### Step 2



#### Step 3



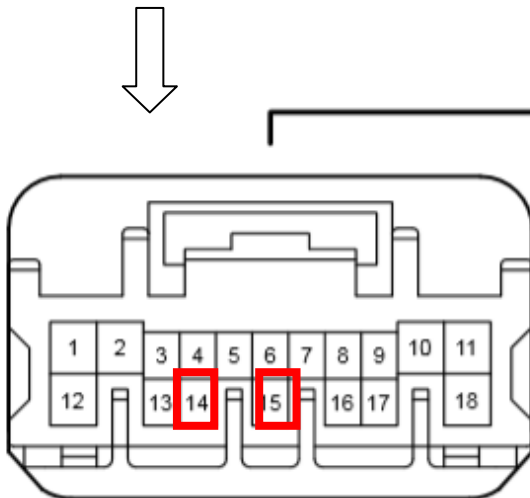
### CONNECTOR JH5: Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)

Location: Lower driver's side kicks panel area



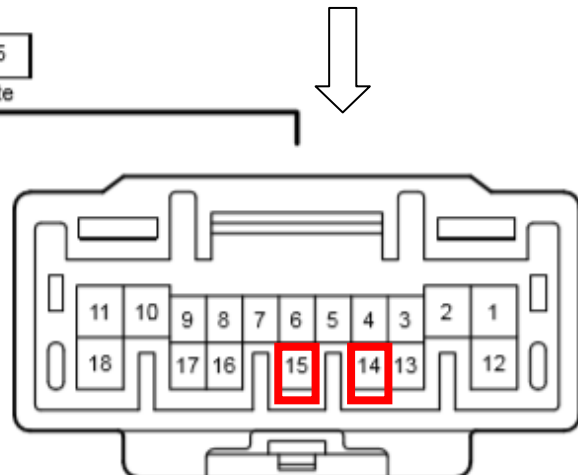
TKP HARNESS	VEHICLE	PIN	T-TAP
Sky Blue - Lock	PINK	14	<b>RED</b>
White - Unlock	WHITE	15	<b>RED</b>

#### PIN SIDE



90980-12743

#### WIRE SIDE

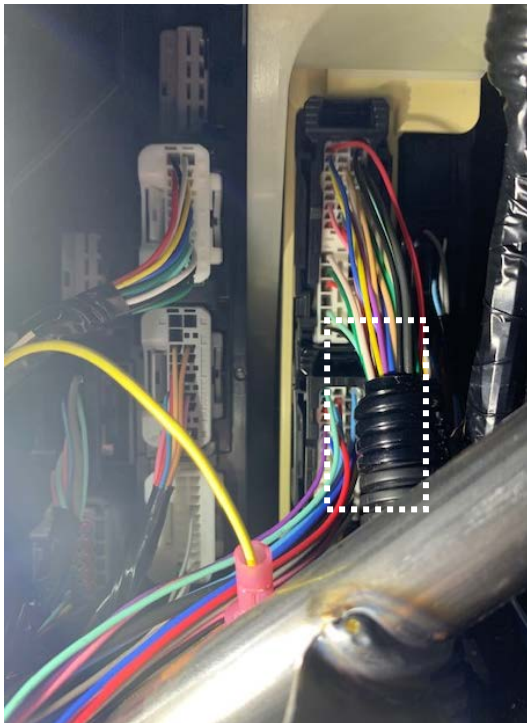


90980-12742

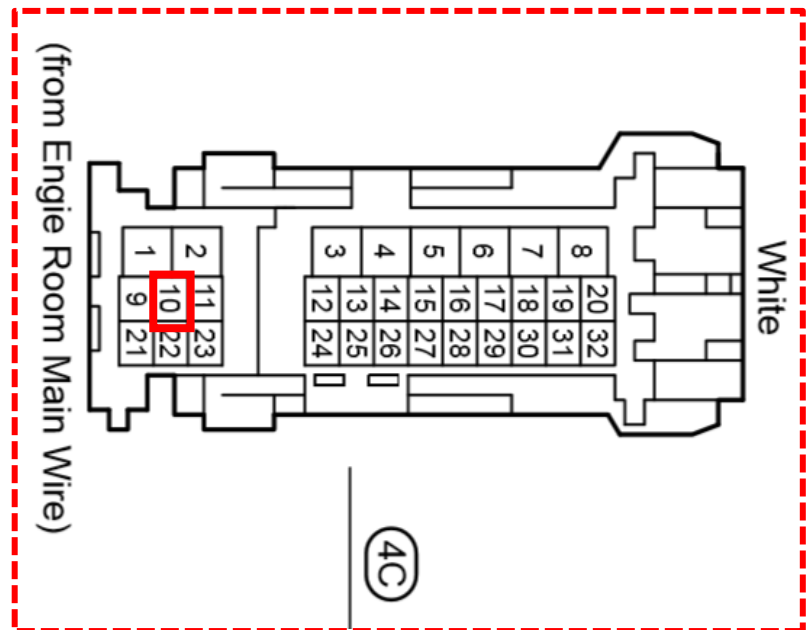
**CONNECTOR 4C Rear Window Defogger**

Location: On driver's side LH dash Panel. Fig. 27

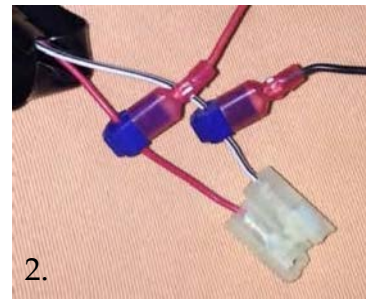
TKP HARNESS	VEHICLE	PIN	T-TAP
Yellow - Ignition	YELLOW	10	<b>RED</b>



**Figure 27**

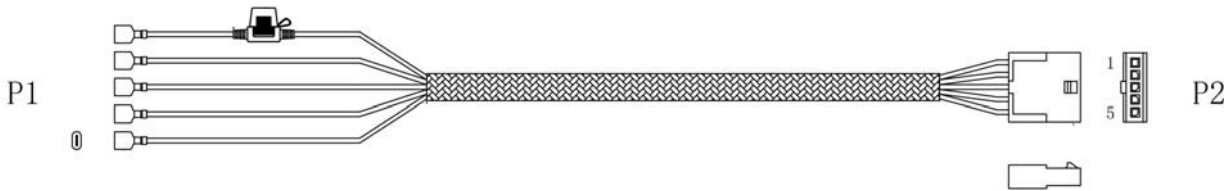


**Note :** Install the T-Taps in a staggered position on the wires. T-Taps should not be side-by-side nor same distance from the connector. There should be approximately at least one inch of wire remaining between the connector and the closest t-tap to the connector. See Examples 1 & 2

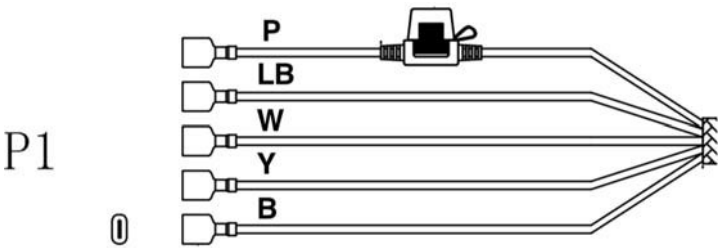




TKP VEHICLE HARNESS

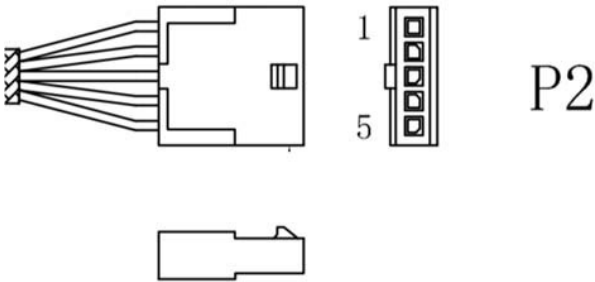


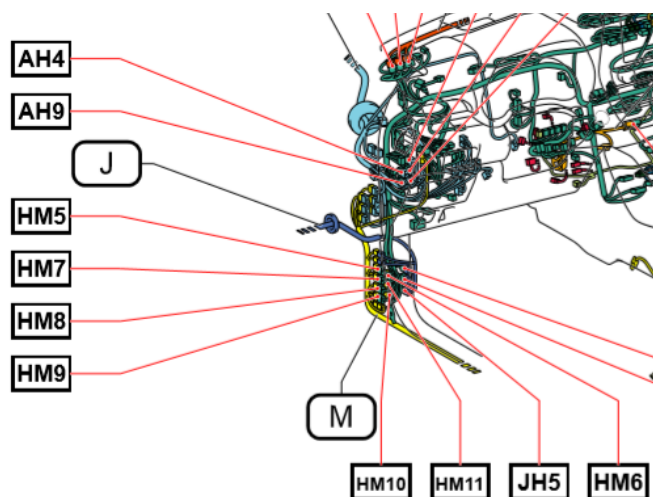
CONNECTOR P1 & P2: TKP Vehicle Harness



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

Female Molex 5-pin Connector P2 BLACK





*Figure 28*



*Figure 29a*

### 15. Locate CONNECTOR JH5:

#### Front Door LH Wire and Instrument Panel Wire (Left Kick Panel) *Figure 28*

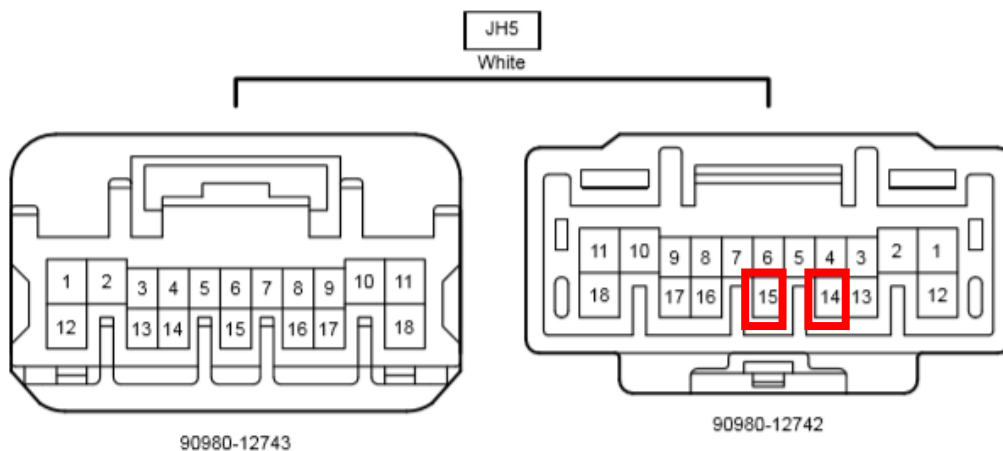
(a) Disconnect the JH5 connector.

(b) Pull back the protective tape to expose at least 2" of the wires behind the connector.

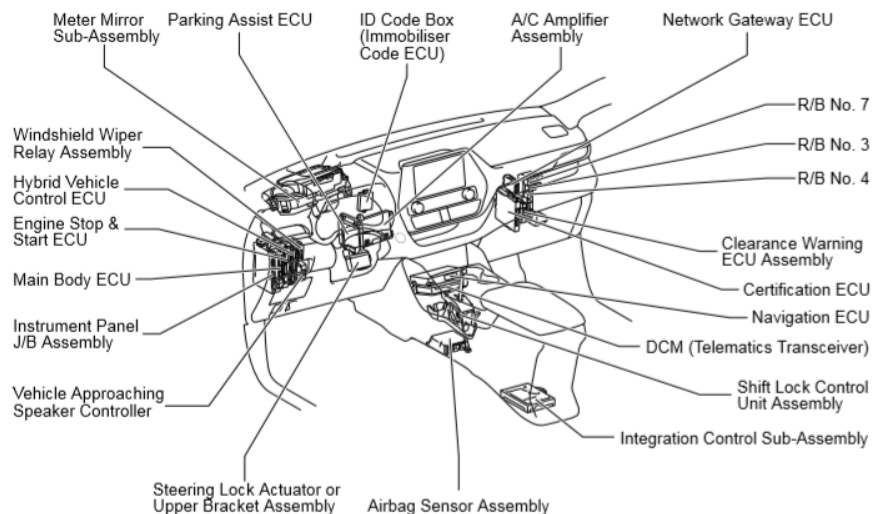
(c) Separate the LOCK wire (Pin #14 / Color **PINK**) from the bundle.

(d) Separate the UNLOCK wire (Pin #15 / Color **WHITE**) from the bundle.

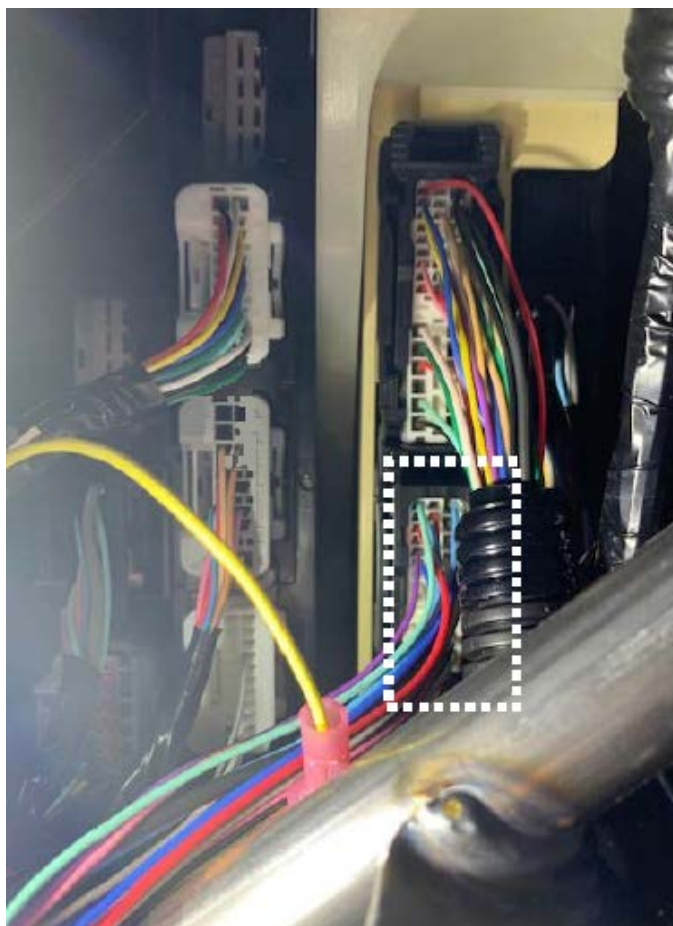
(e) T-Tap pin 14 and 15 with the supplied red t-taps *Figure 29a & 29b*.



*Figure 29b*



**Figure 30**



**Figure 31**

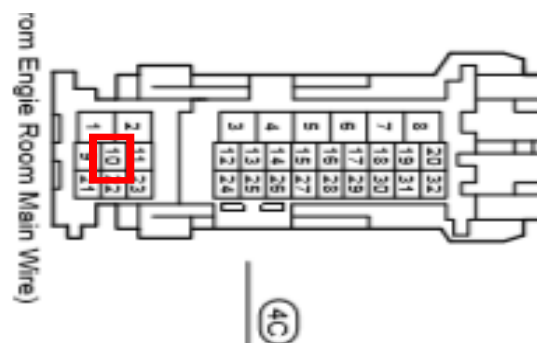
**16. Locate CONNECTOR J/B 4C:**

**INSTRUMENT PANEL  
REINFORCEMENT 32 PIN  
CONNECTOR. *Figure 30***

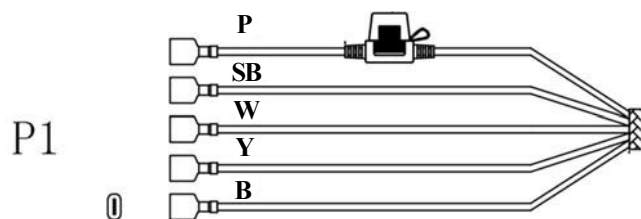
(a) Pull back the protective tape to expose at least 2" of the wires behind the connector.

(b) Separate the BKUP LP Wire (Pin #10 / **YELLOW**) from the bundle.

(c) T-Tap the yellow (Pin #10) with the supplied **RED** T-tap. **Figure 31**







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.

Figure 32

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

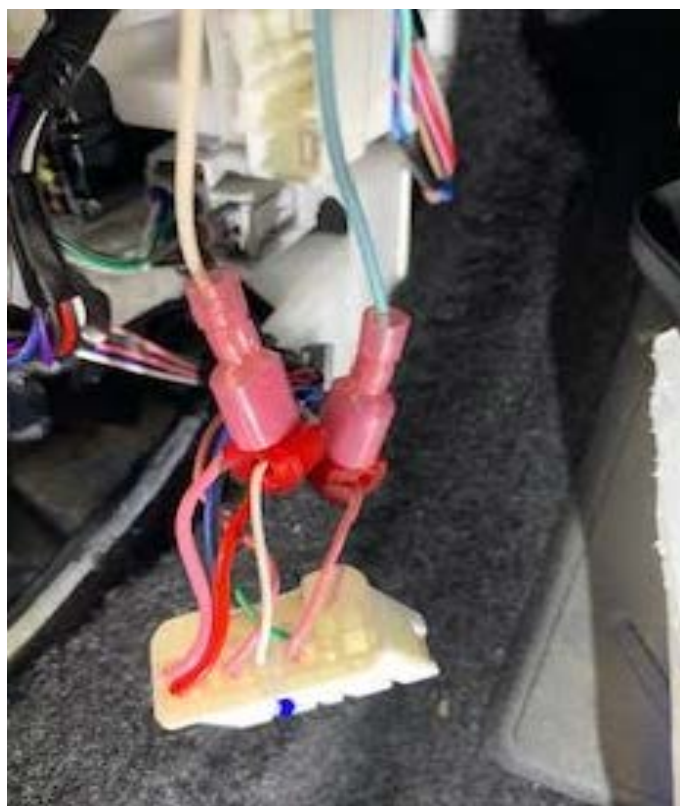


Figure 33

# 17. CONNECT THE LOCK AND UNLOCK WIRES IN CONNECTOR IF1 TO THE TKP VEHICLE HARNESS MALE BLADE CONNECTORS P1

- (a) Connect the male blade connector of the TKP Vehicle Harness SKY BLUE wire to the JH5 connectors PINK lock wire **RED T tap**. (Pin-15).

Figure 33

- (b) Connect the male blade connector of the TKP Vehicle Harness WHITE wire to the JH5 connector **WHITE** lock wire T-tap Pin # 14. Figure 33.

- (c) Reconnect the JH5 connector.



*Figure 34*

**18. CONNECT THE JB 4C TO THE TKP VEHICLE HARNESS MALE BLADE**

- (a) Connect the male blade connector of the TKP Vehicle Harness **YELLOW** wire to the 4C connectors **YELLOW** wire T-tap (PIN 10). *Figure 34*



*Figure 35*

- (b) If the connector was disconnected reconnect the 4C connector. *Figure 35*



*Figure 36*

## 19. CONNECTING THE DLC JUMPER

- (a) Locate DLC under knee bolster **Figure 36.**
- (b) Remove DLC from Bracket
- (c) Connect DLC Jumper **Figure 37.**



*Figure 37*



## 20. ROUTEING TKP HARNESS

- (a) 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 Yellow see illustration.

*Figure 38*

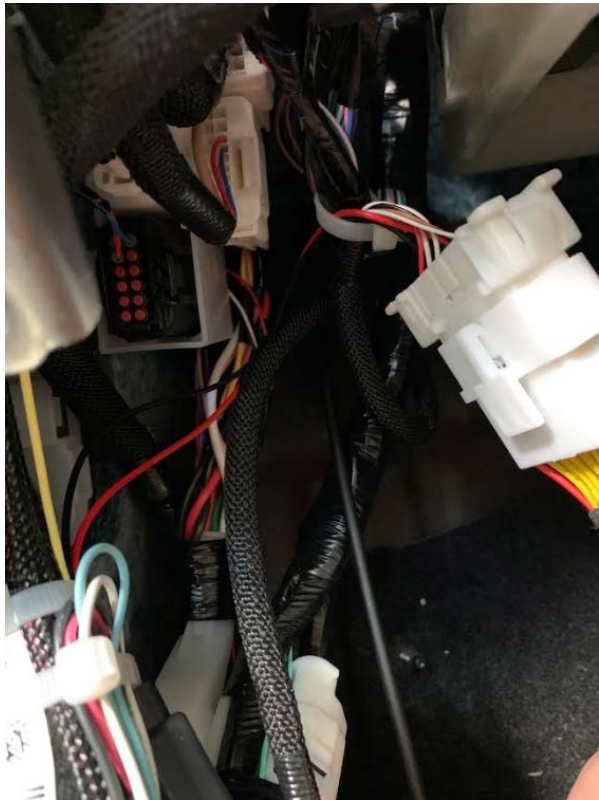
*Figure 38*





**Figure 39**

(b) Route the TKP Vehicle Harness upwards behind the metal dash support brace as shown. **Figure 39**



**Figure 40**

(c) Routing of the Power and Ground Wires from the DLC Jumper. **Figure 40**



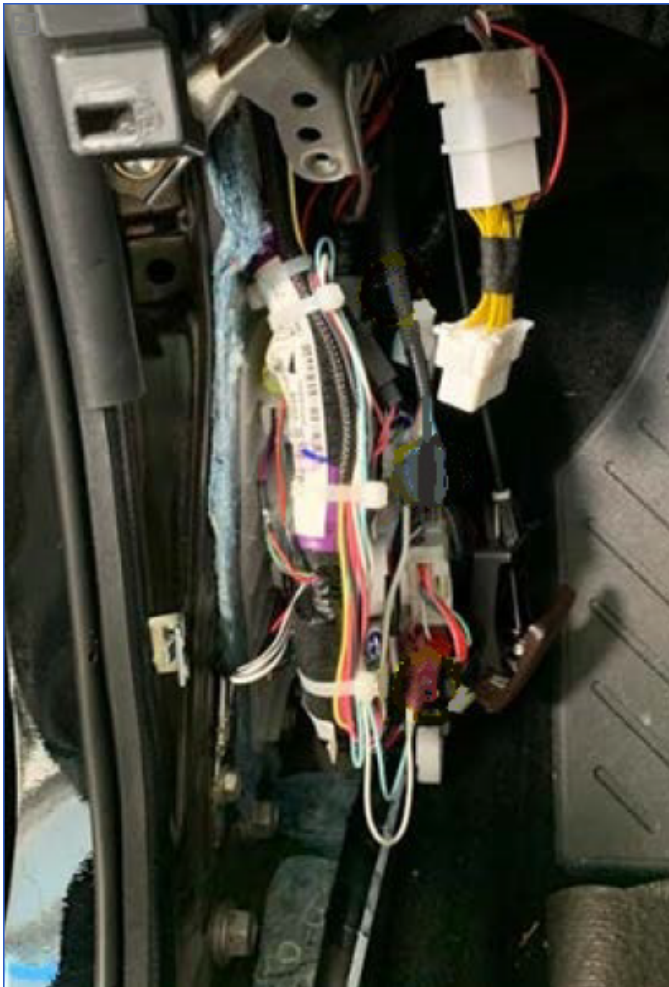
## 21. SECURE THE TKP VEHICLE HARNES MOLEX 5-PIN CONNECTOR



Use one (1) 8' zip tie

(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. ***Figure 41***

***Figure 41***



*Figure 42*



Use five (5) 8" zip ties

**22. BUNDLE & SECURE THE  
TKP VEHICLE HARNESS  
WIRES ZIP TIE LOCATIONS**

***FIGURE 42***

(1) Above IF1 Connector add zip tie to TKP Lock and Unlock wires to factory harness see item 1.

(2) Bundle over Power and Ground DLC wires

(3) Connector 4h TKP Accessory

(4) Top of IF1 connector and 4H

(5) Bundling over the rest of TKP harness from DLC and 4H and IF1 connectors



**NOTE: DO NOT TIE TO THE AIRBAG WIRES.**

**23. CLOSE UP OF TIE LOCATIONS**

(a.) Wire Tie the ignition wire. *Figure 43*



*Figure 43*





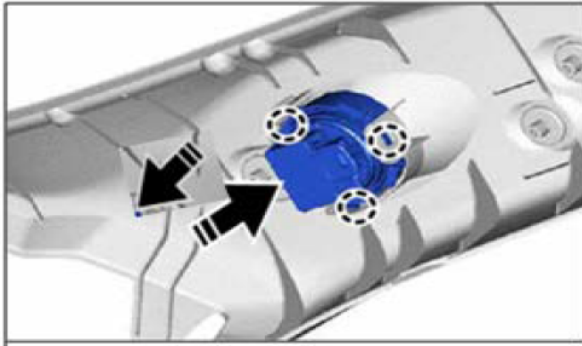
**Figure 44**

(b.) Wire Tie the lock and unlock to avoid sharpe Metal panel and fastener. **Figure 44**

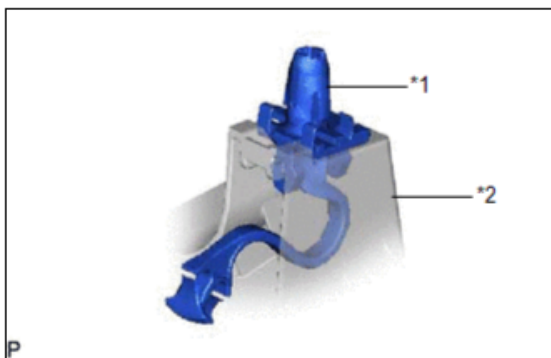


**Figure 45**

(c.) Harness in front of the crash bar. **Figure 45**

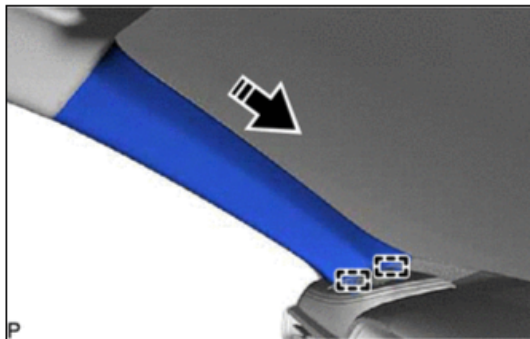


**Figure 46**



*1	Front Pillar Garnish Clip
*2	Front Pillar Garnish LH

**Figure 47**



	Install in this Direction
--	---------------------------

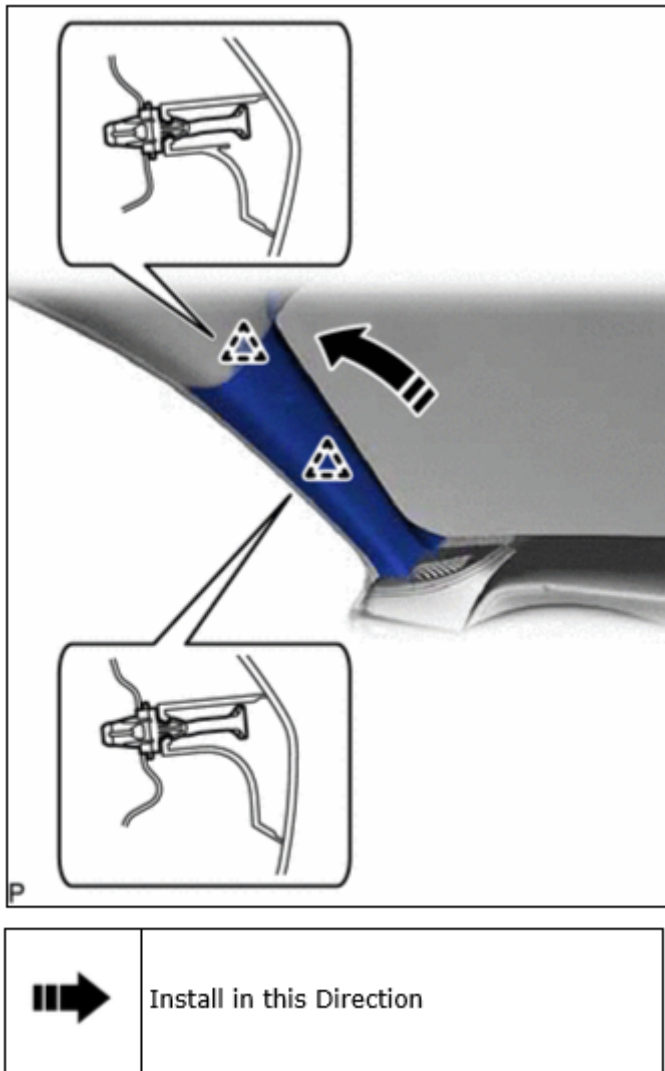
**Figure 48**

## 24. INSTALL FRONT PILLAR GARNISH ASSEMBLY LH

- (a) Connect Speaker if applicable
- (b) Install 2 new front pillar garnish clips to the front pillar garnish assembly LH. **Figure 46**

Note: New front pillar garnish clip.  
P/N:62217-11020 (X2) **Fig. 47**

- (c) Push the front pillar garnish assembly LH as shown in the illustration to engage the 2 guides. **Figure 47**



(d) Engage the 2 front pillar garnish clips to install the front pillar garnish assembly LH as shown in the illustration. Figure 49

*Figure 49*

**22 INSTALLATION COMPLETIONS**

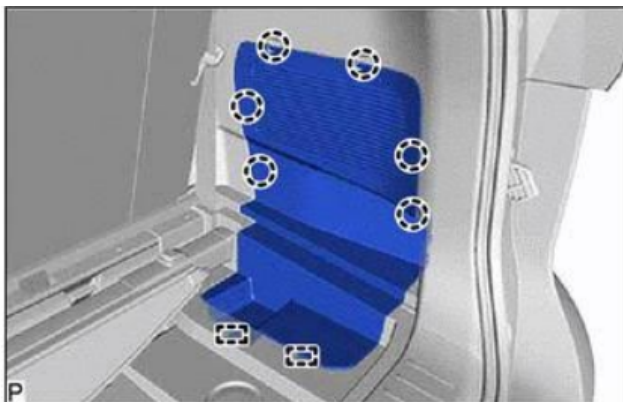
- **INSTALL NO.1 SWITCH HOLE BASE**
- **INSTALL LOWER INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY**
- **INSTALL DISCONNECT HOOD LOCK CONTROL LEVER SUB-ASSEMBLY**
- **INSTALL NO 1, INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY**
- **INSTALL THE INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY**
- **INSTALL REMOVE INSTRUMENT PANEL REGISTER ASSEMBLY**
- **INSTALL COWEL SIDE TRIM SUB-ASSEMBLY LH**
- **INSTALL FRONT DOOR SCUFF PLATE LH**



**Figure 50**



**Figure 51**



**Figure 52**

25. Reconnect the negative battery cable.  
**Figure 50 & 51**



#### RE-INSTALL BATTERY



Use 10mm socket & torque wrench



Torque: 48 in-LB (5.4 N-m)



Caution: DO NOT touch the positive terminal

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

#### DIO ONLY:

26. Print Warranty Statement and place in the glove box.



## FUNCTION AND QUALITY CHECK

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

## ACCESSORY FUNCTION CHECK:

## LOOK FOR:



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

**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.

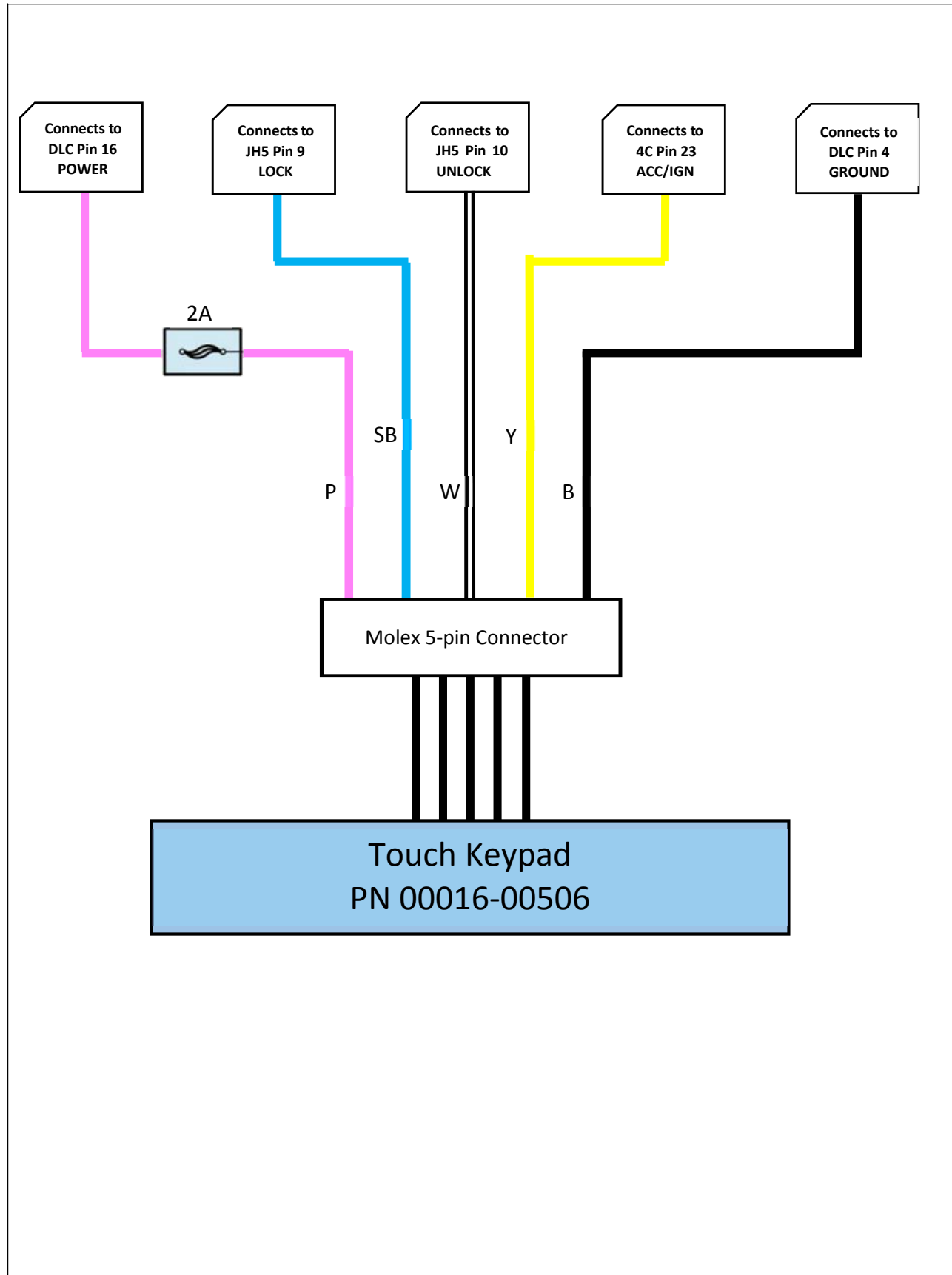
 Headrest Hangtag

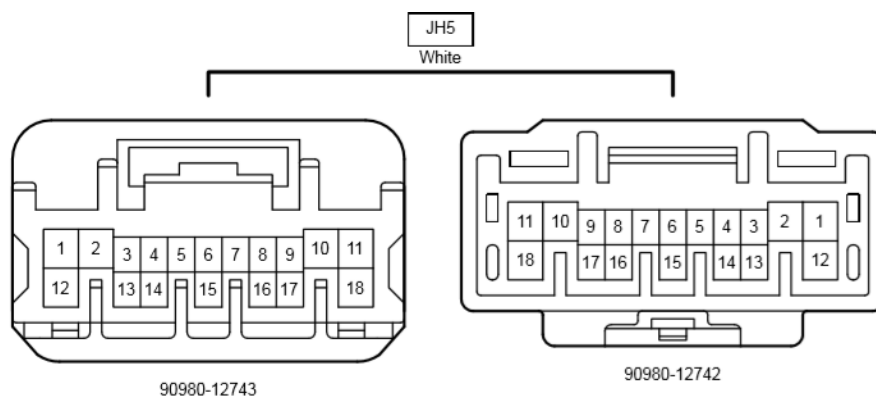
Hang Seat Headrest Hang tag from Passenger seat headrest.

 Warranty Statement

Place Warranty Statement in the glovebox, DIO only.

## Diagnostic / Block Diagrams &amp; Connector Procedures



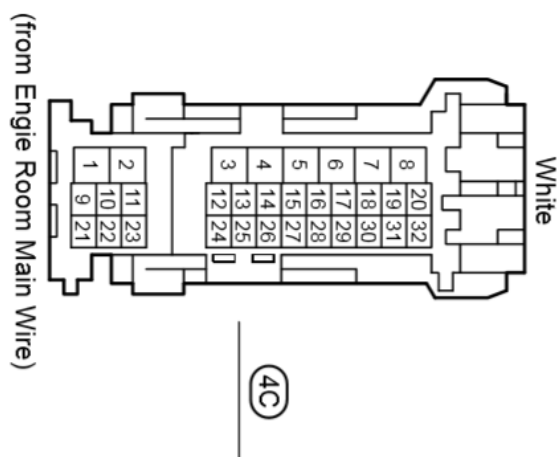


### Connector JH5 Pin 18 LOCK

Pin	Wire Color	Test Reference	Proper Operation
14	P	Pin 14 to Ground	12-14VDC TO BE VERIFIED

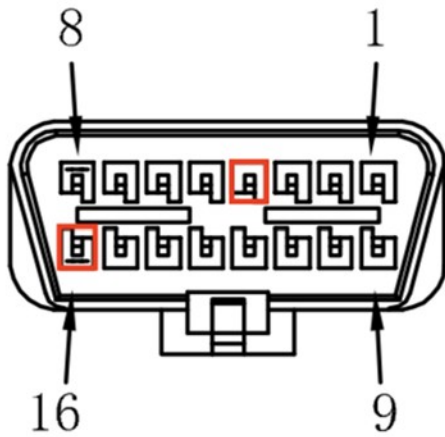
### Pin 14 UNLOCK

Pin	Wire Color	Test Reference	Proper Operation
15	W	Pin 15 to Ground	12-14VDC TO BE VERIFIED



### Connector 4C Pin 10 ASSOSSORY

Pin	Wire Color	Test Reference	Proper Operation
10	P	Pin 10 to Ground	12V when ACC or IGN is ON TO BE VERIFIED



**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](http://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.**