



Southeast Toyota Distributors, LLC

Southeast Toyota Distributors, LLC Accessory Installation Instructions

2020 TUNDRA TOUCH KEYPAD (TKP)

Year & Model:	2020 TUNDRA
Part Number:	00016-00506
Accessory Code:	KP1010
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	N/A
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

	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.
	VIDEO: This image indicates a video to show a installation procedure, PIO Only.

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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.

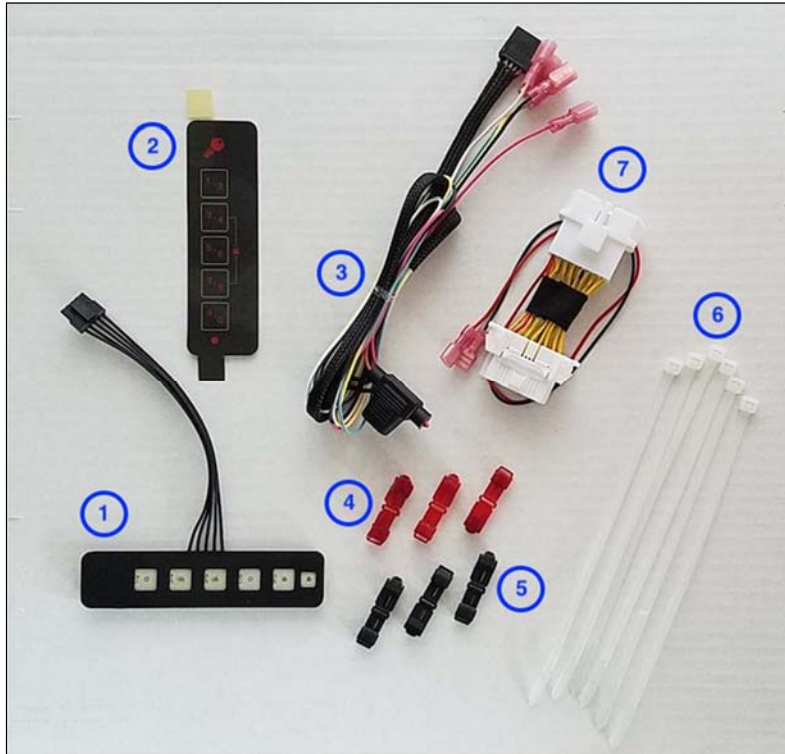
Parts for Installation:

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
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	User Manual
9.	1	Seat Headrest Hangtag

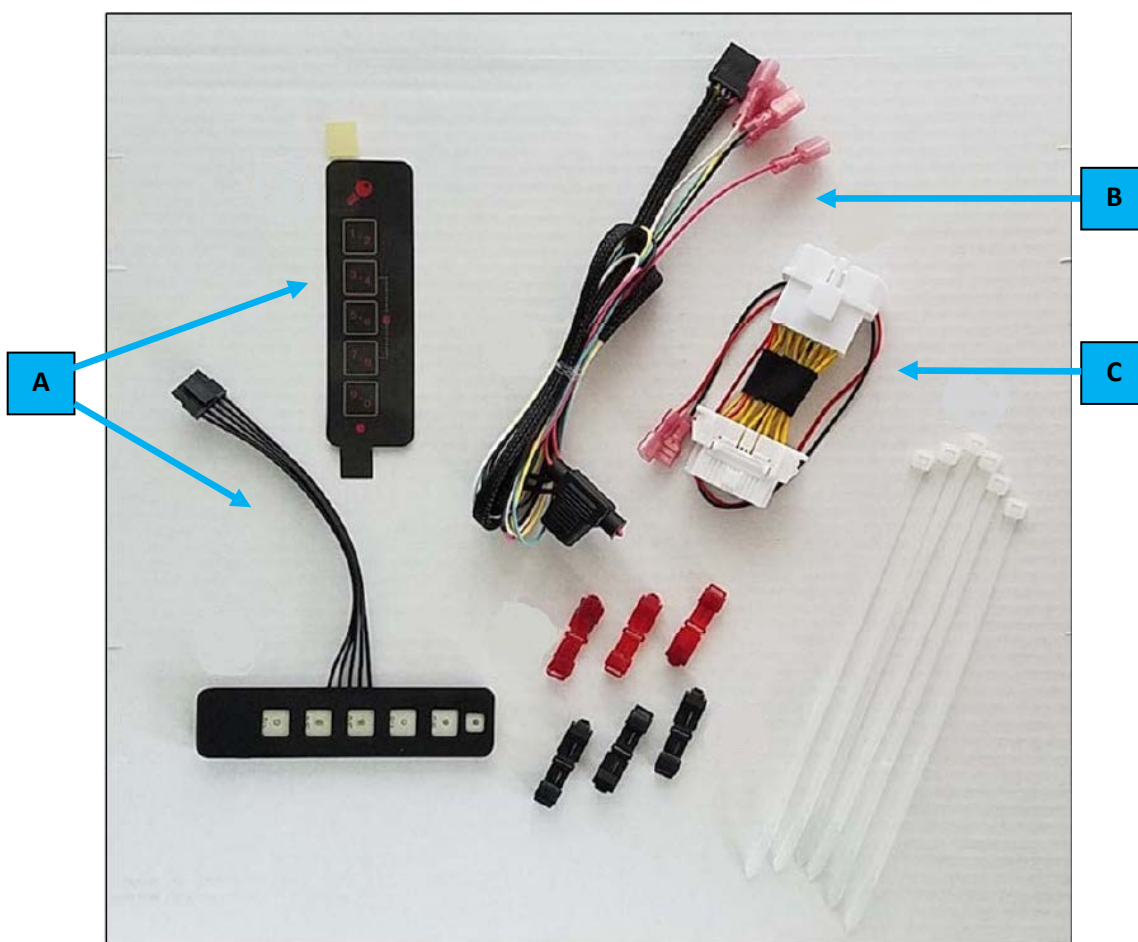


Service & Warranty Information

Image Key	Parts information		Warranty Information	
	Part Number	Description	Warranty Time	Labor Op. Code
N/A	00016-00506	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:

*Figure 1-1**Figure 1-2*

1. BATTERY REMOVAL

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.



Do not disconnect terminal at the 12mm nut



Use 10mm socket



Do NOT touch the positive terminal

Wait at least 90 seconds after

Disconnect the cable from the negative(-) battery terminal to disable the SRS system

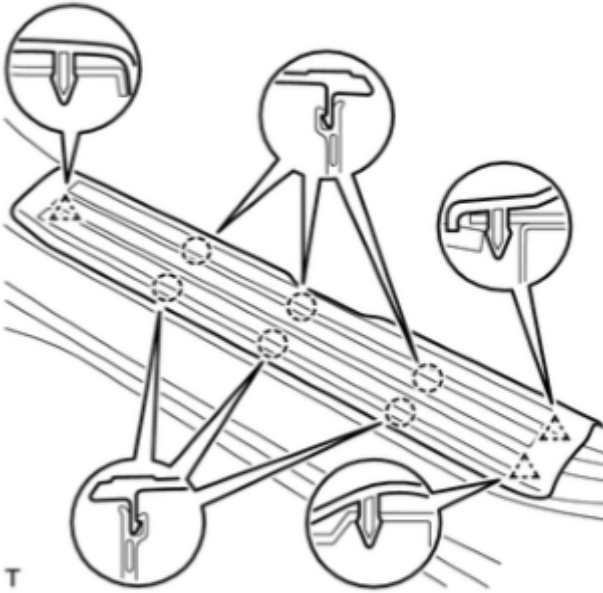


Figure 2

VEHICLE DISASSEMBLY- INSTALLATION PROCESS



Place a protective blanket in the front footwell area.

2. REMOVE FRONT DOOR SCUFF PLATE LH

(a) Disengage 6 claws and 3 clips as shown in the illustration. Figure 2

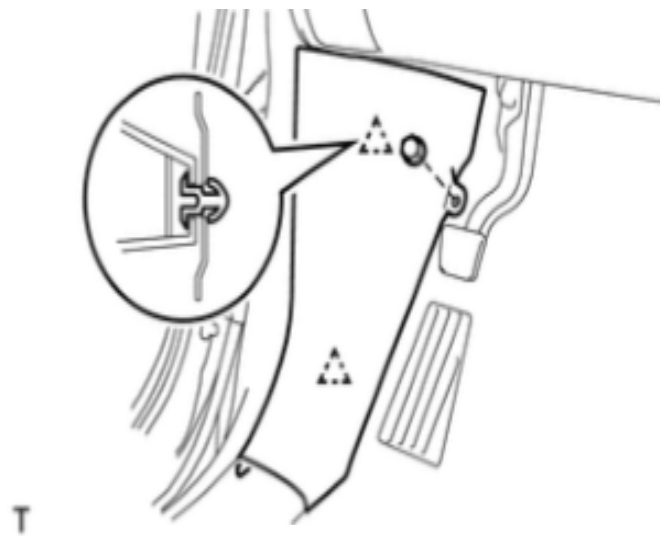


Figure 3

3. REMOVE COWL SIDE TRIM SUB-ASSEMBLY LH

(a) Remove the cap nut.

(b) Detach the 2 clips to remove the cowl side trim sub-assembly LH as shown in the illustration. Figure 3.

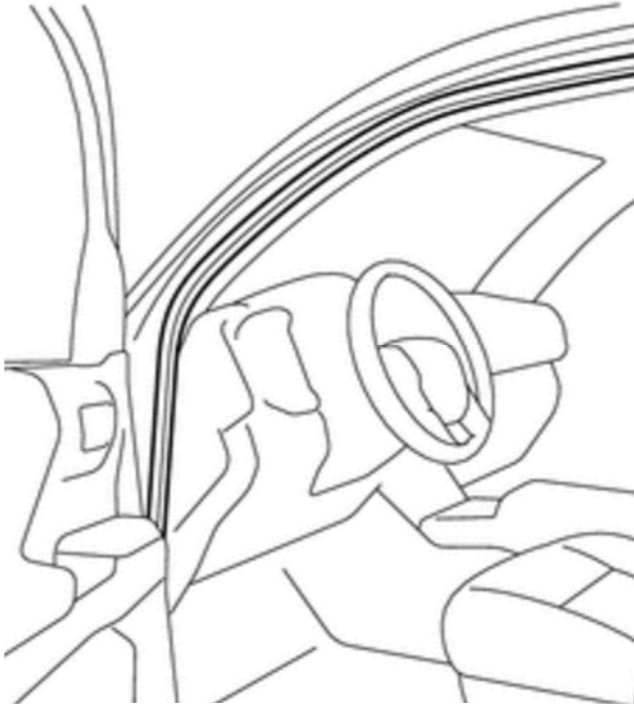


Figure 4

4. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH

(a) Remove the front door opening trim weather-strip LH along the A-pillar.

Figure 4

5. REMOVE FRONT PILLAR GARNISH LH

(a) Using a screwdriver with its tip wrapped in protective tape, disengage the claws to open the cover. Figure .5

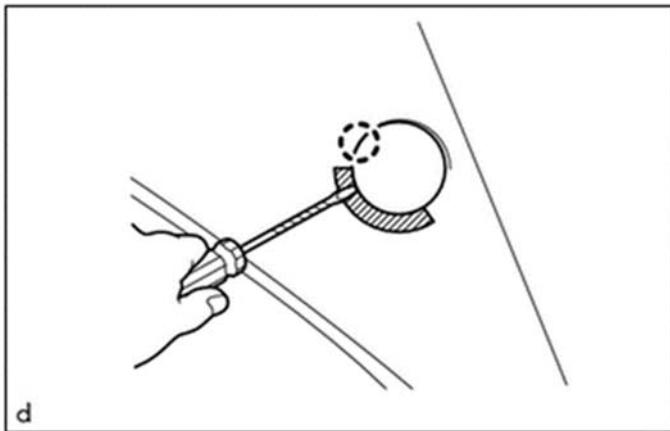


Figure 5



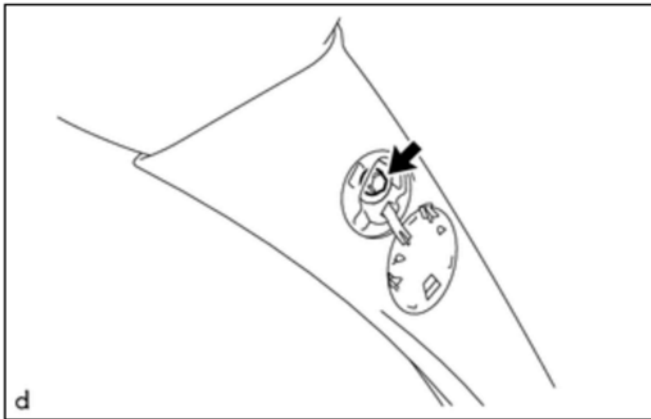


Figure 6

(b) Remove the bolt figure 6.

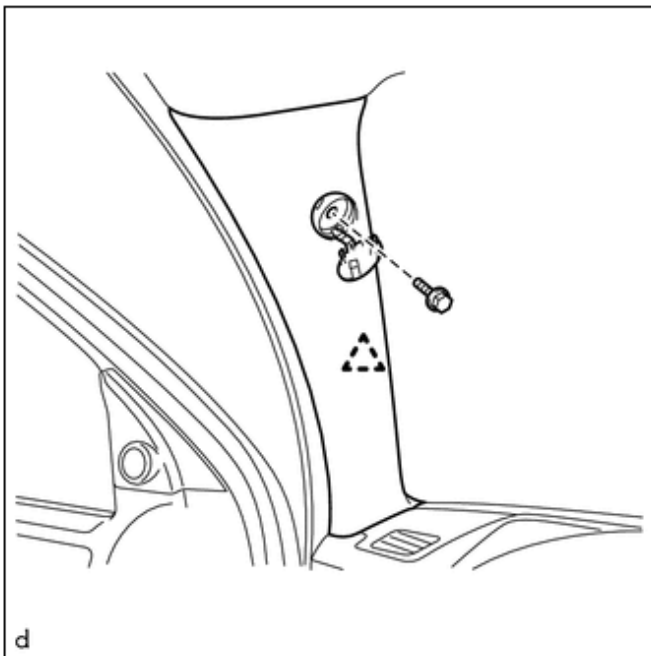


Figure 7

(c) Using a screwdriver with its tip wrapped in protective tape, disengage the 3 claws to open the cover. Figure 7.

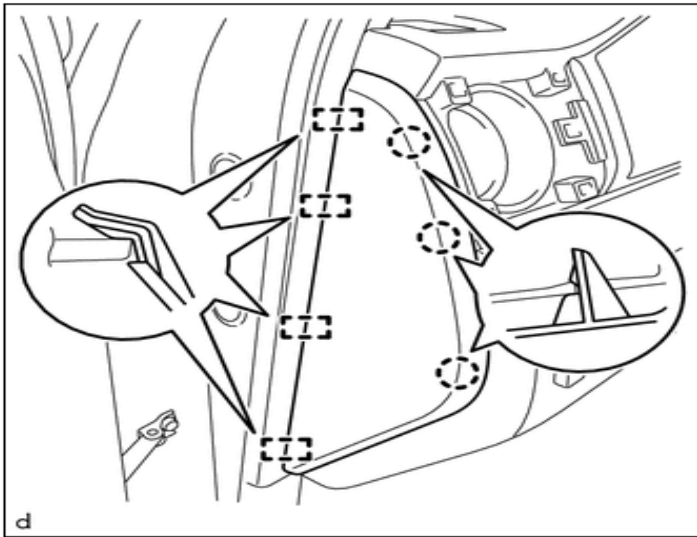


Figure 8

6. REMOVE INSTRUMENT SIDE PANEL LH

- Apply protective tape to the area shown in the illustration. Figure 8.
- Using a molding remover, disengage the 3 claws and 4 guides as shown in the illustration. Figure 8.
- Disengage the 4 guides to remove the instrument side panel LH as shown in the illustration. Figure 8.

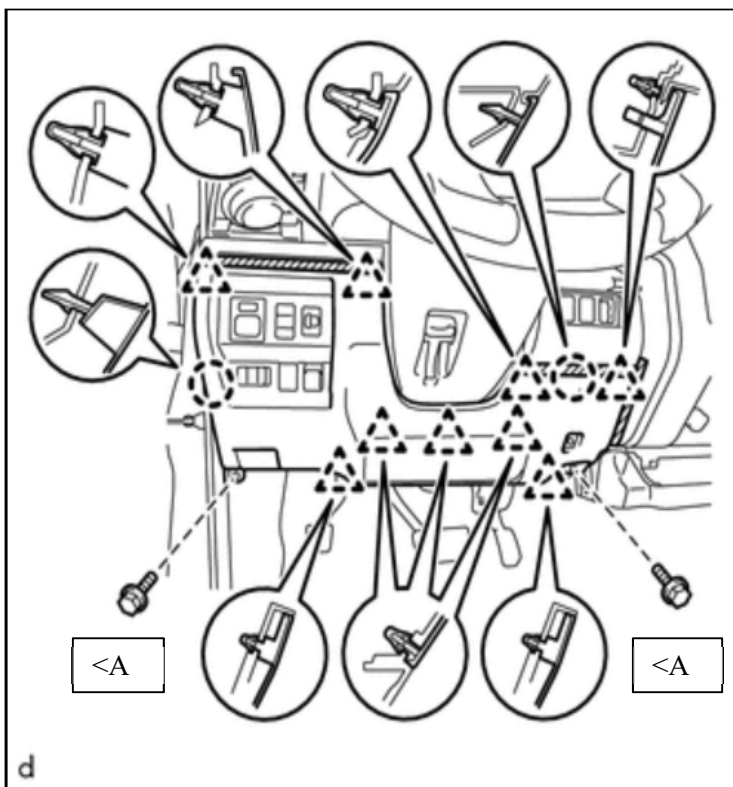


Figure 9

7. REMOVE INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY

- Remove the bolt <A>. Fig. 9.
- Detach the 9 clips, 2 claws and remove the lower instrument panel finish panel sub-assembly
- Disconnect each connector.



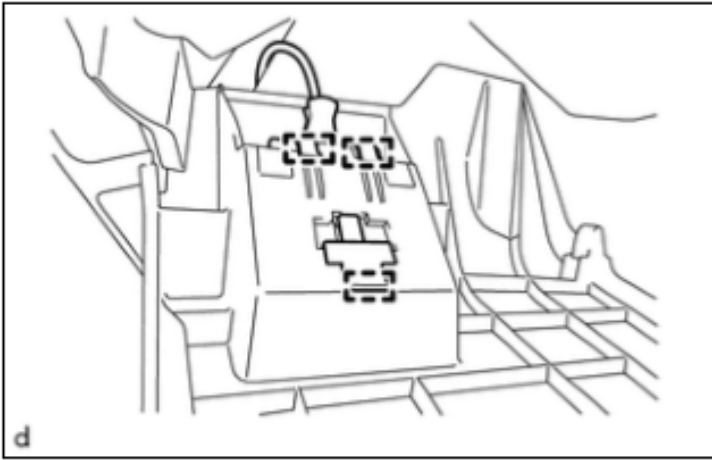


Figure 10

(d) Pull and slide the hood lock control cable, rotate the hood lock control cable, and then disconnect the hood lock control cable from the hood lock control lever connector. Figure 10 and Figure 11

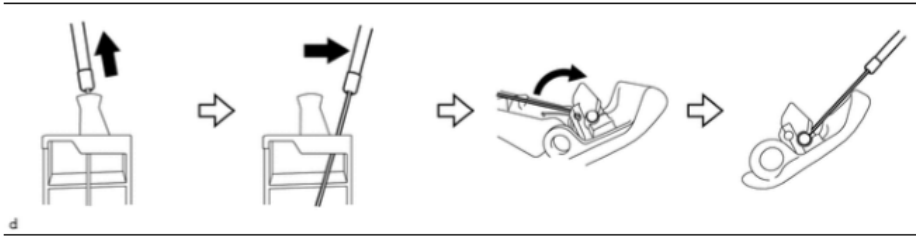
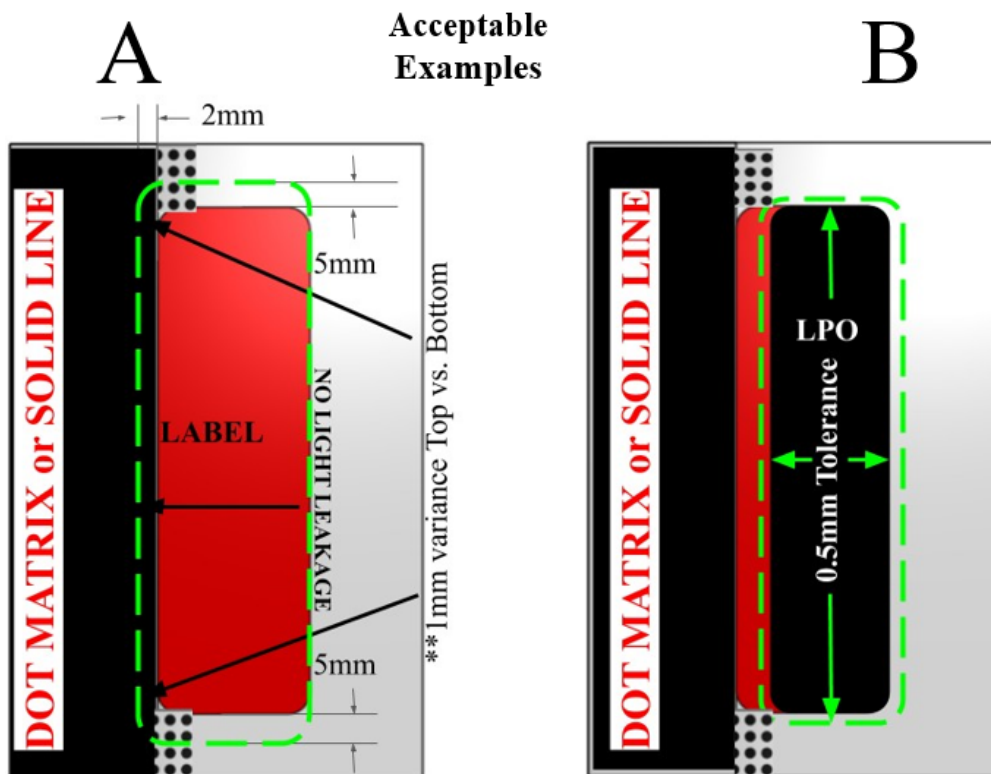


Figure 11

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	LPO 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 1PCS +/- 1mm Non-Contrasting Up to the width of the label. 	
Note: Inspection Items 5, 6, and 7 Can Not be combined on one label.			



C



C: Adhesive Marring

D



D: Adhesive Tack Point

E



E: Light Leakage

F

*F: Vertical Backhousing Alignment*

G

*G: Label Edge Imperfection*



Figure 12



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.

8. 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 12.

(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 TUNDRA line at 20".

Hint:

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

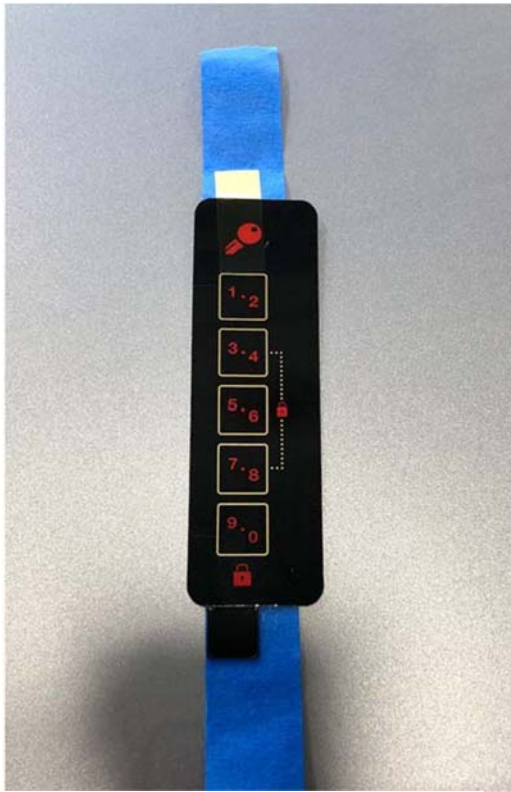


Figure 12a



Figure 13



9. Use Blue Masking Tape.



Make sure the inside windshield mounting location for the TKP Back housing is clean. Use Ammonia-free Windex or 50/50 Alcohol/Water solution but ensure that the alcohol is fully evaporated before applying the label.



Refer to page 12 and 13 for QA Standards before affixing the Graphic Sticker to the inside of the windshield.

(a) Apply a strip of blue masking tape on to the backside of the Keypad Button Graphic Sticker. Figure 12a.

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

(c) Holding onto the blue masking tape, carefully align the top edge of the Keypad Button Graphic Sticker to the Tundra mark on the magnetic Windshield QC Scale. Figure 13.

(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.



Key Pad Placement



Figure 14



10. Use a Felt block or wide Moulding Remover. Figure 14.

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

Hint: This can be done from the top or bottom of Sticker.



Figure 15

(b) Make multiple passes over the button sticker to achieve maximum wet-out. Fig. 15

(c) Carefully press out any air bubbles or ghost marks using the moulding remover.

(d) Remove the strip of blue masking tape.



(e) 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 a new one that meets specification.

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

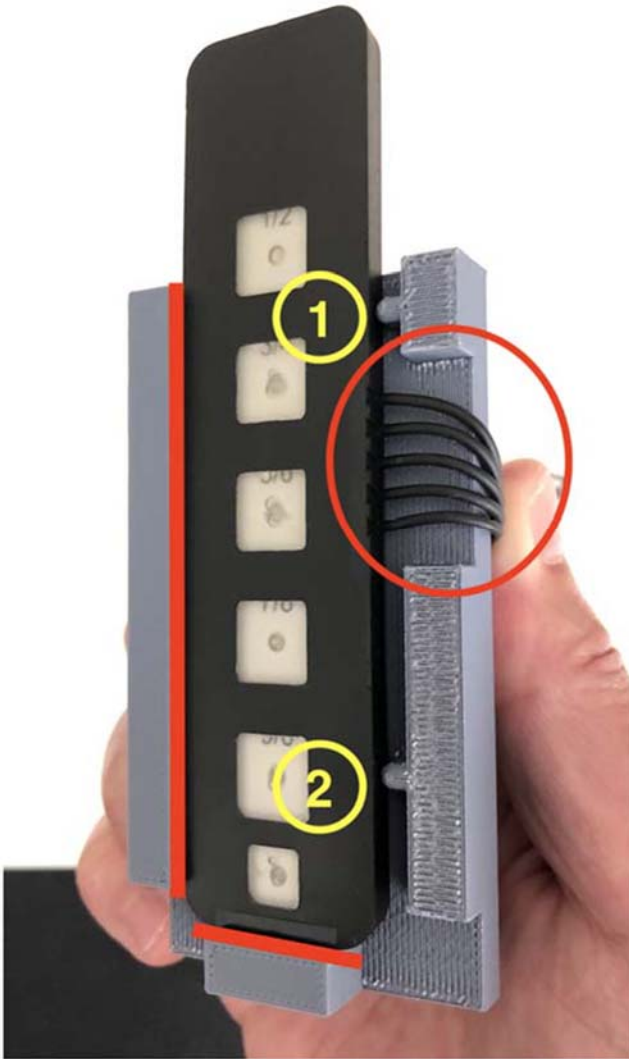


Figure 16

11. AFFIX THE TKP ACKHOUSING TO THE KEYPAD BUTTON GRAPHIC STICKER



Use the Back housing Alignment tool.



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

(a) Place the TKP Back housing into the Alignment Tool as shown. Figure 16.



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.

Hint: The TKP Back housing 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 16.

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



Figure 17

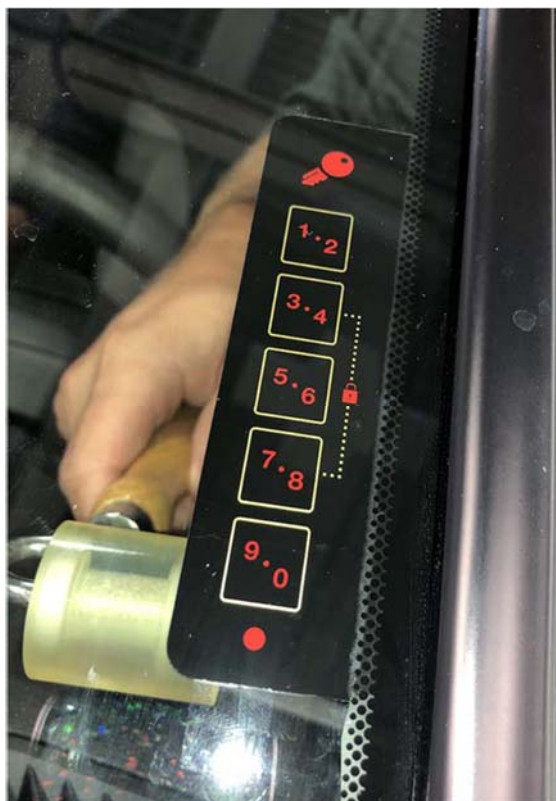


Figure 18

(c) Place the Alignment Tool & TKP Backhousing assembly against the windshield next to the Button Sticker to the lower RH side as shown. Figure 17.



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.



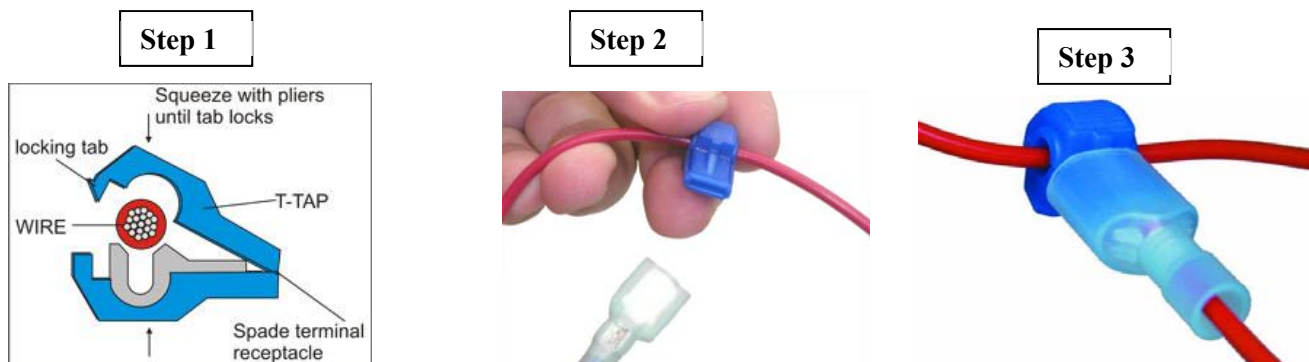
Do not press the Program Button. Use the Roller.

(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 18

T-TAP INSTALLATION

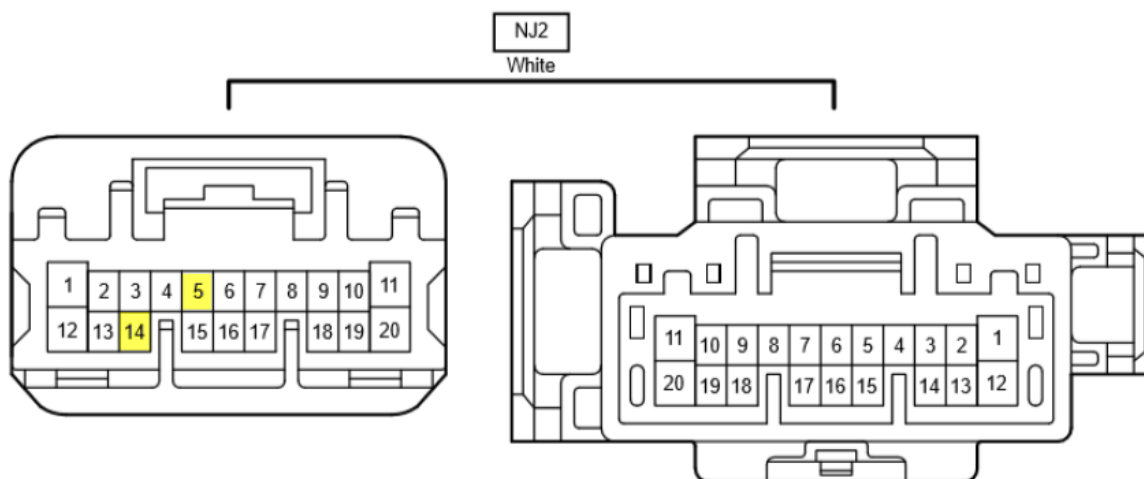
When installing the female T-Tap connectors, be sure the wire is located inside the wire channel of the female T-Tap connector before closing the connector over the wire with pliers.



CONNECTOR NJ2: Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)

Location: Lower driver's side kick panel area

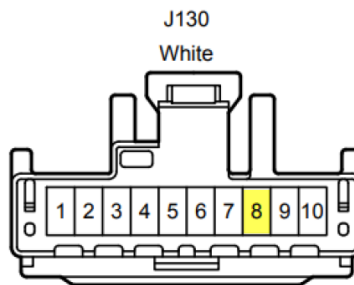
TKP HARNESS	VEHICLE	PIN	T-TAP
Light Blue - Lock	Black	5	Black
White - Unlock	Red	14	Black



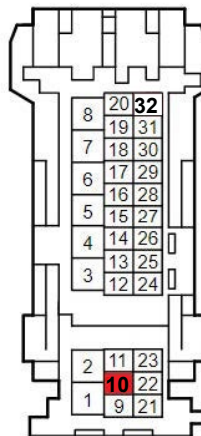
WITHOUT SEAT MEMORY**CONNECTOR J130 Outer Mirror Switch Assembly Keypad 10 Pin Connector**

Location: On driver's side LH dash Panel

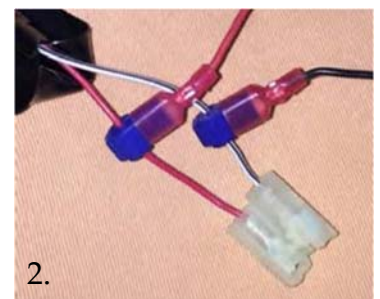
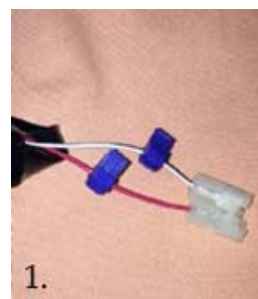
TKP HARNESS	VEHICLE	PIN	T-TAP
Yellow - Ignition	Red	8	Red

**WITH SEAT MEMORY****CONNECTOR 3H DRIVER SIDE JB 32PIN WHITE**

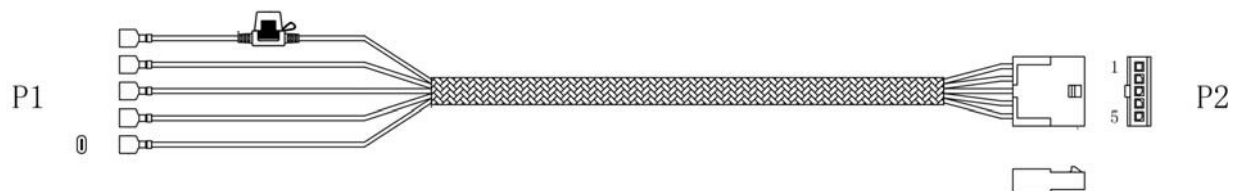
TKP HARNESS	VEHICLE	PIN	T-TAP
Yellow - Ignition	White	10	Red



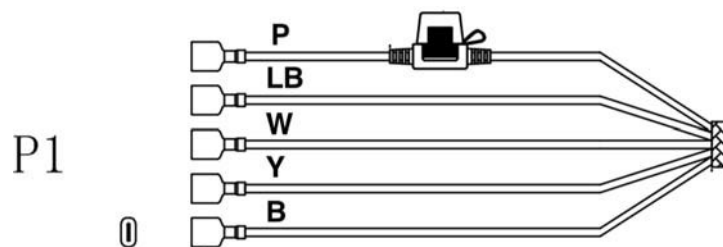
Note : Install the T-Taps in a staggered position on the wires. T-Taps should not be side-by-side nor same distance from the connector. There should be approximately at least one inch of wire remaining between the connector and the closest t-tap to the connector. See Examples 1 & 2



TKP VEHICLE HARNESS

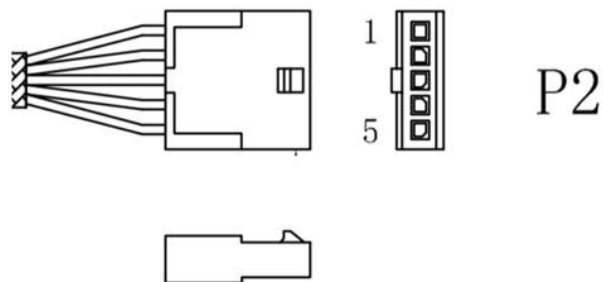


CONNECTOR P1 & P2: TKP Vehicle Harness



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

Female Molex 5-pin Connector P2 BLACK



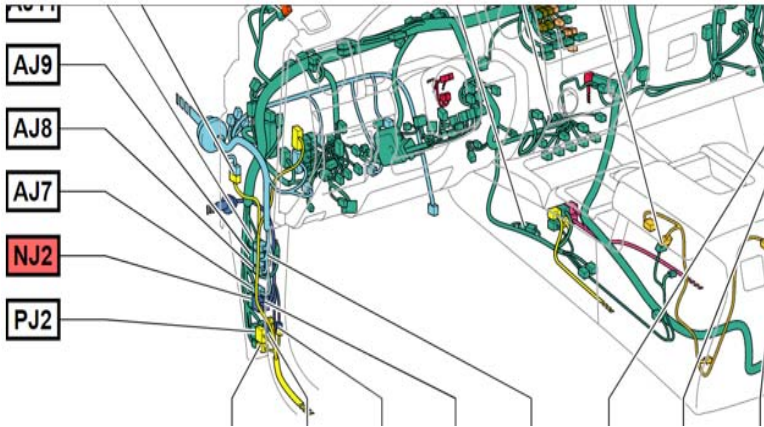


Figure 19

12. Locate CONNECTOR NJ2: Front Door LH Wire and Instrument Panel Wire (Left Kick Panel) figure 18



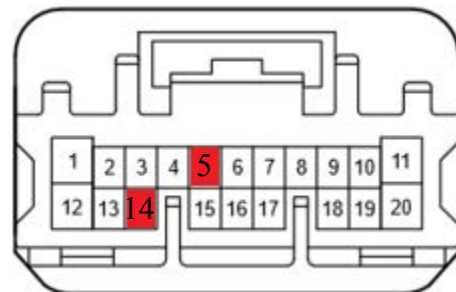
Figure 20

(a) Disconnect the NJ2 connector. Figure 20.

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

(c) Separate the LOCK wire (Pin #5 / Color BLACK) from the bundle.

(d) Separate the UNLOCK wire (Pin #14 / Color RED) from the bundle.



W/O Seat Memory

**13. Locate CONNECTOR J130
Outer Mirror Switch Assembly 10
Pin Connector figure 21**

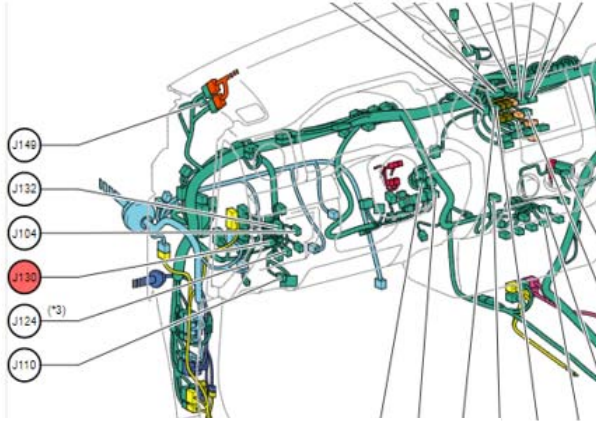


Figure 21

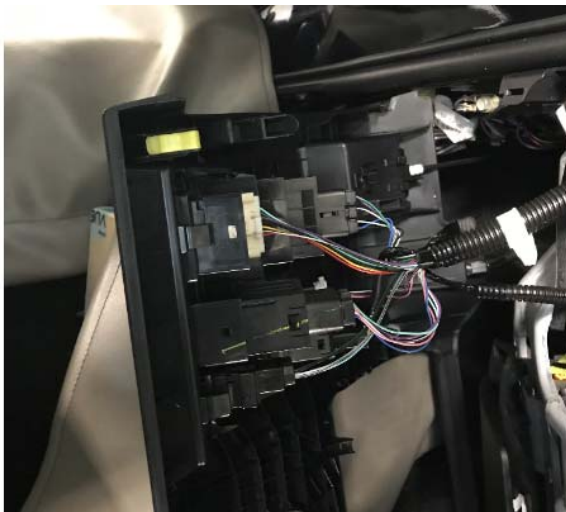


Figure 22

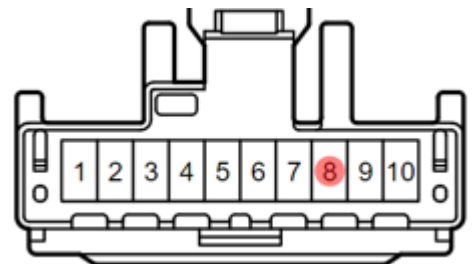


Figure 23

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

(b) Separate the OUTER MIRROR ASSEMBLY wire (Pin #8 / Color RED) from the bundle. Figure 22.

(c) T-Tap the RED remote mirror wire (Pin #8) with the supplied red T-tap. Figure 23.



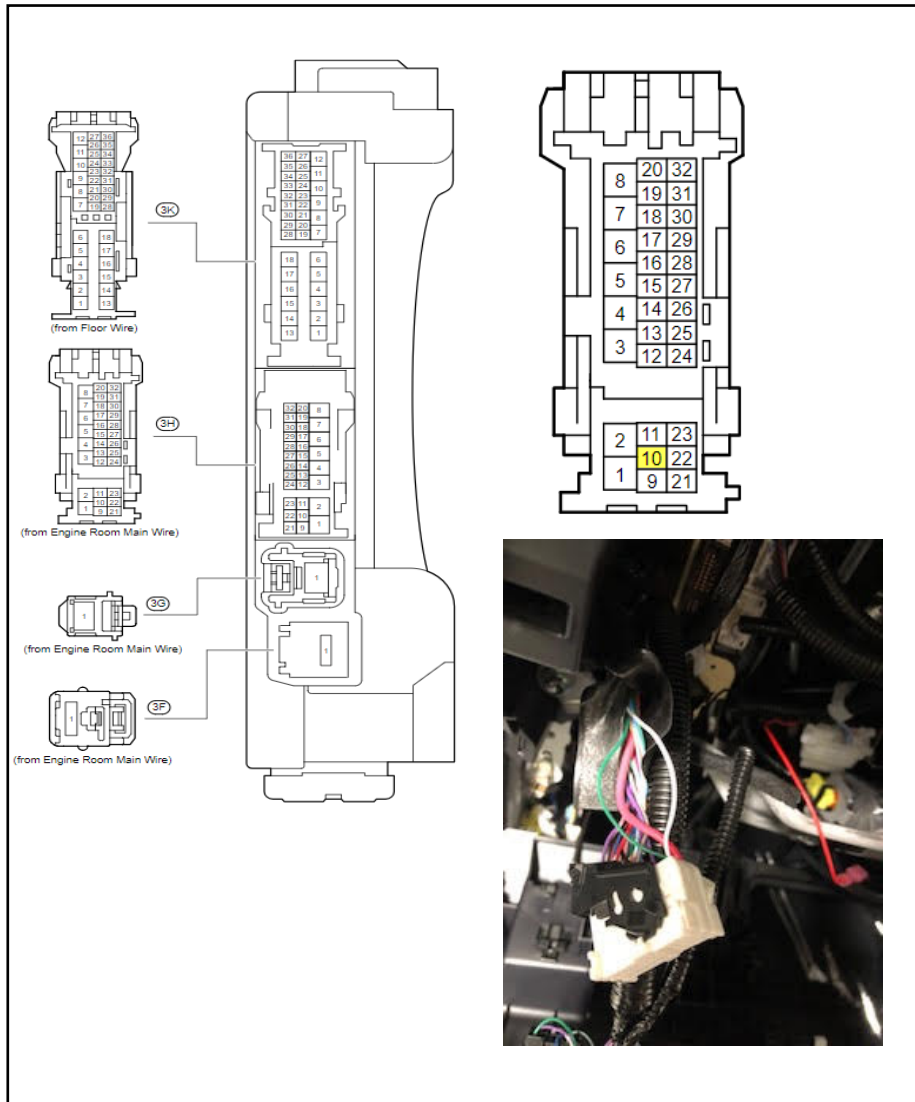


Figure 24



Figure 25 Southeast Toyota Distributors, LLC

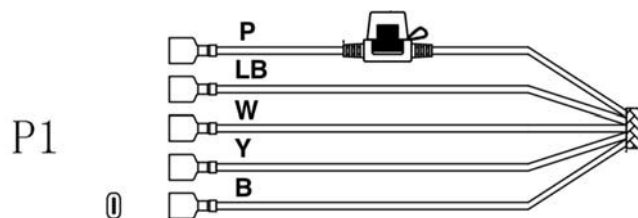
Seat Memory

14. Locate CONNECTOR 3H Driver Side JB 32 Pin (WHITE Connector. figure 24

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

(b) Separate the Rear Window Defogger wire (Pin #10 / Color WHITE) from the bundle. Figure 24.

(c) Install a Red T-Tap onto the WHITE Rear Window Defogger wire (Pin #10). Figure 25.



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

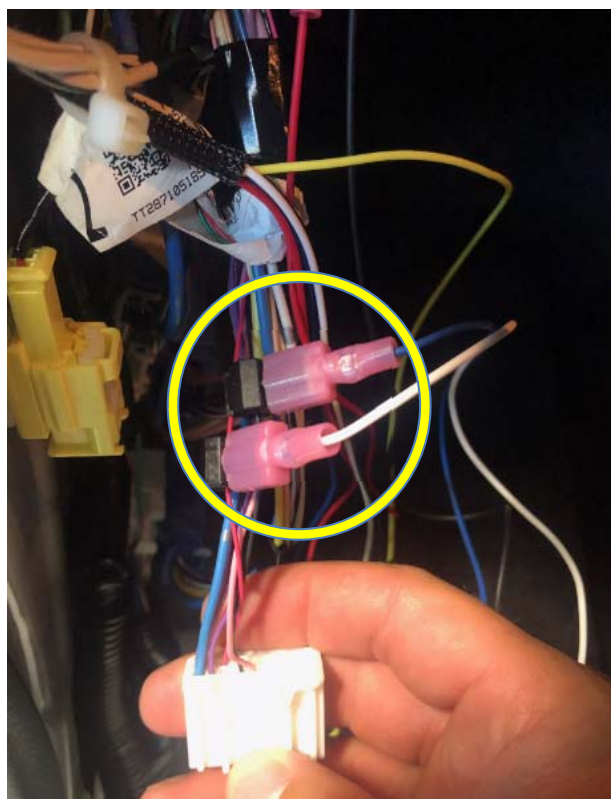


Figure 26

15. CONNECT THE LOCK & UNLOCK WIRES IN CONNECTOR NJ2 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 NJ2 connectors BLACK lock wire T tap (Pin-5).
Figure 26

(b) Connect the male blade connector of the TKP Vehicle Harness WHITE wire to the NJ2 connector RED Unlock wire T-tap (Pin-14). Figure 26

(c) Reconnect the NJ2 connector.



Figure 27

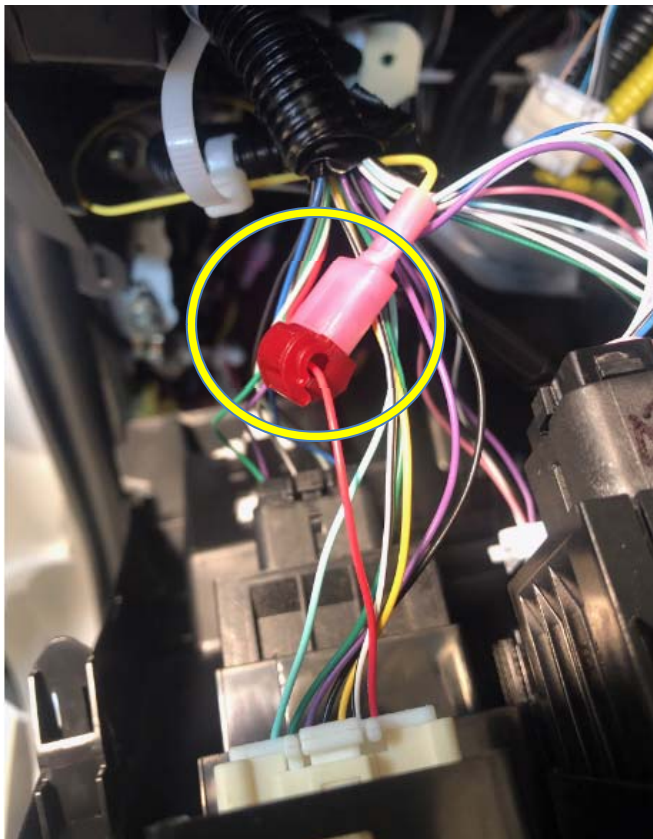


Figure 28

W/O Seat Memory

16a. CONNECT THE OUTER MIRROR SWITCH REMOTE CONNECTOR J130 TO THE TKP VEHICLE HSRNESS MALE BLADE CONNECTOR P1

(a) Connect the male blade connector of the TKP Vehicle Harness YELLOW wire to the J130 connectors Red remote mirror wire T-tap (Pin 8). Figure 27

(b) Reconnect the J130 connector. Figure 28



Figure 29

Seat Memory

17b. CONNECT THE REAR WINDOW DEFOGGER CONNECTOR 3H TO THE TKP VEHICLE HSRNESS MALE BLADE CONNECTOR P1.

(a) Connect the male blade connector of the TKP Vehicle Harness YELLOW wire to the 3h connectors white Rear Window Defogger T-Tap (Pin 10). Figure 29

(b) Reconnect the J130 connector. Figure 29

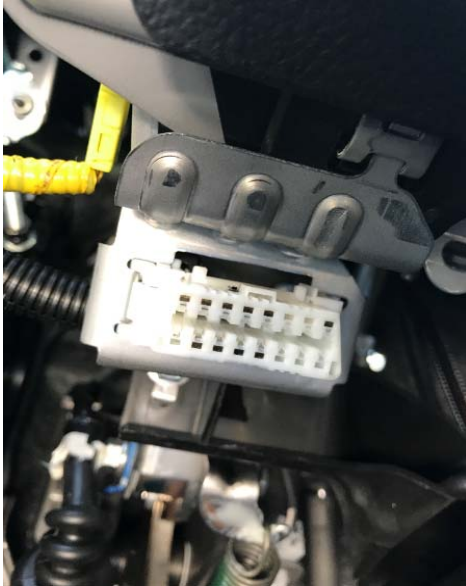


Figure 30



Figure 31



Figure 32

18. CONNECTING THE DLC JUMPER

(a) Locate DLC under knee bolster.

Figure 30

(b) Remove DLC from Bracket. Figure 31

(c) Connect DLC Jumper. Figure 32



Figure 33



Figure 34



Figure 35
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19. ROUTE TKP VEHICLE HARNESS TO MOUNTED KEY PAD TO THE RIGHT OF THE A-PILLAR

(a) Hold the TKP Vehicle Harness with the Female Molex 5-pin Connector P2 oriented up towards the A-pillar. Figure 33

(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 Yellow see illustration. Figure 34 and 35.

(c) The TKP Vehicle Harness Molex 5-pin connector end should route up to the A-pillar as shown is figure 35.



Figure 36



(d) Route the TKP Vehicle Harness downwards behind the metal dash support brace as shown. Wire Tie in a way that the emergency brake cannot make contact with the harness. Avoid the airbag harness. Figure 36.



Figure 37



Use one (1) 8' zip tie

20. SECURE THE TKP VEHICLE HSRNESS 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, Figure 37.



Figure 38

(b) Route DLC Jumper Power and ground wires upwards following factory Harness. Figure 38



Figure 39



Use five (5) 8" zip ties

**21. BUNDLE & SECURE THE TKP
VEHICLE HARNESS WIRES.**

Figure 39

(a) Connector J130 add zip tie see item 1.

(b) Bundle over Power and Ground DLC
wires.

(c) Connector NJ2.

(d) Top of NJ2.

(e) Bundling over the rest of TKP
harness.



Figure 40

(f) Connector J130 add zip tie see item 1.
Figure 40



Figure 41

(g) Bundle over Power and Ground DLC wires. Figure 41



**DO NOT ATTACH TO AIR BAG
HARNESS**



Figure 42

(h) Zip tie Connector NJ2.
Figure 42

(i) Zip tie Top of NJ2.
Figure 42



Figure 43

(j) Bundling over the rest of TKP
harness. Figure 43

22. VEHICLE REASSEMBLY

- (a) Engage the 2 claws and 9 clips to install the instrument panel lower finish panel sub-assembly. Install the 2 bolts.
- (b) Connect the hood lock control lever sub-assembly.
- (c) Engage the 2 guides and clip to install the front pillar garnish LH. Install the bolt.
- (d) Install front door opening trim Weatherstrip LH.
- (e) Install cowl side trim board LH.
- (f) Install front door scuff plate LH



Figure 44

RE-INSTALL BATTERY



Use 10mm socket & torque wrench .
Reconnect the negative battery cable.
Figure 44



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.

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

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.



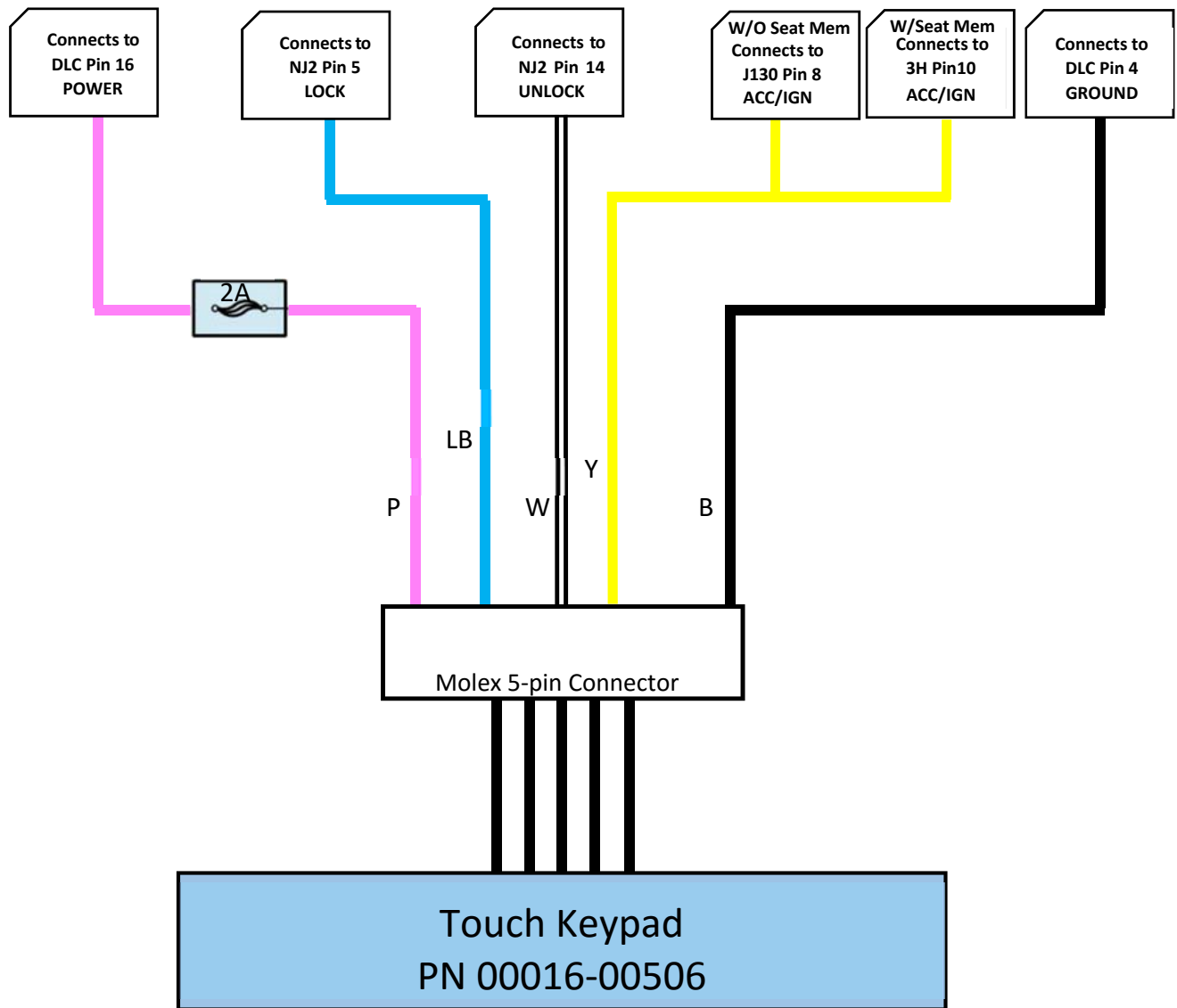
Check Speaker

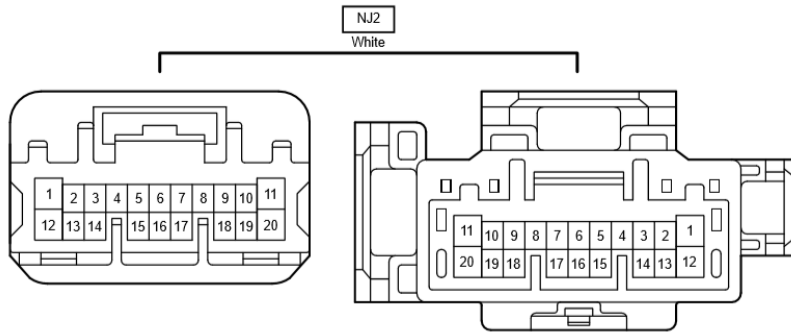
Left Front A-Pillar Speaker, if applicable.



Warranty Statement

Place Warranty Statement in the glovebox, DIO only.



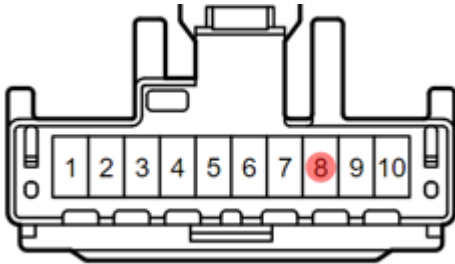


Connector
NJ2 Pin 5
LOCK

Pin	Wire Color	Test Reference	Proper Operation
5	BLACK	Pin 5 to Ground	12-14VDC

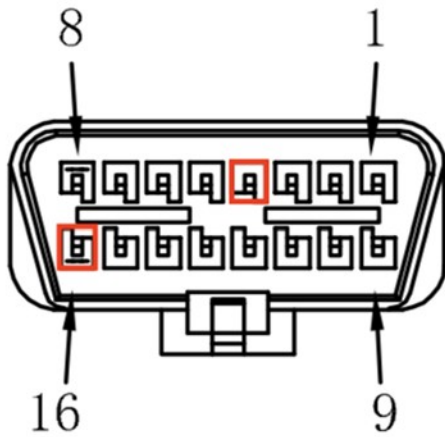
Pin 14
UNLOCK

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



Connector
J130 Pin 8
ASSOSSORY

Pin	Wire Color	Test Reference	Proper Operation
8	RED	Pin 8 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.**