

TOYOTA

CAMRY

2015

DUAL USB POWERPORT

Part Number: 00016-00222

Accessory Code: CP1000



Conflicts

Note:

Kit Contents

Item #	Quantity Req'd	Description
1	1	Dual USB Power Port
2		

Hardware Bag Contents

Item #	Quantity Req'd	Description
1	2	RED #951 Female T-Taps
2	1	BLUE #952 Female T-Tap
3	2	Foam Tape Squares 2" x 2"
4	4	Zip Ties 8"

Additional Items Required For Installation

Item #	Quantity Req'd	Description
1		

Recommended Tools

Safety Tools	
Safety Glasses	Safety Gloves
Special Tools	
Installation Tools	
Tape Measure	Trim Panel Removal Tool
Wire Fishing Tool	Needle Nose Pliers
Step Drill Bit (1")	Side Cutters
Ratchet/Driver	Torque Wrench (in*lbs)
Socket (10mm)	China Marker
Microfiber Cloth	Padded Work Surface
Deburring Tool	
Special Chemicals	







General Applicability

Recommended Sequence of Application

Item #	Accessory	Description
1		
2		

*Mandatory

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.

SPECIAL NOTE: Installation Sequences

After TMS and 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 and 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.

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, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

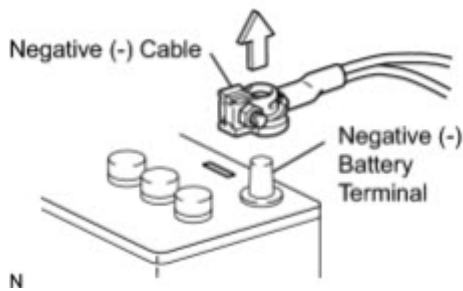


Figure 1

1. Remove the NEGATIVE (-) battery terminal before starting any disassembly. See Figure 1.



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.

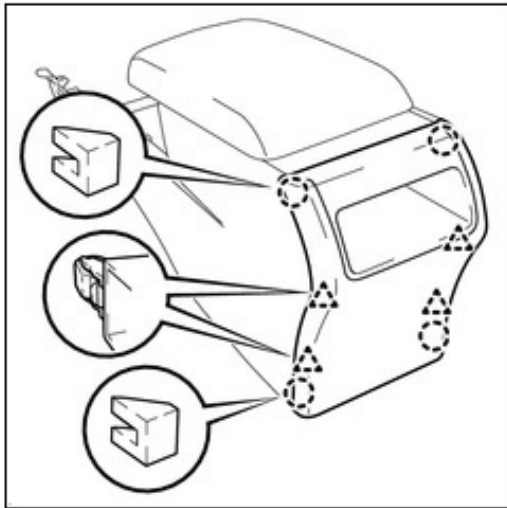


Figure 2

REMOVE CONSOLE REAR END PANEL SUB-ASSEMBLY

2. Disengage the 4 claws and the 4 clips to remove the rear end panel sub-assembly. See Figure 2.



Figure 3a

REMOVE CONSOLE REAR END PANEL SUB-ASSEMBLY



Use a trim panel removal tool to avoid damaging the part. See Figure 3a.

3. Note that there are two types of rear end panel sub-assemblies - with and without Rear Register Duct. See Figure 3b.

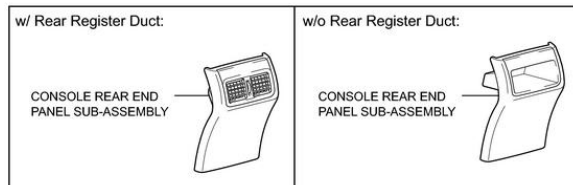


Figure 3b

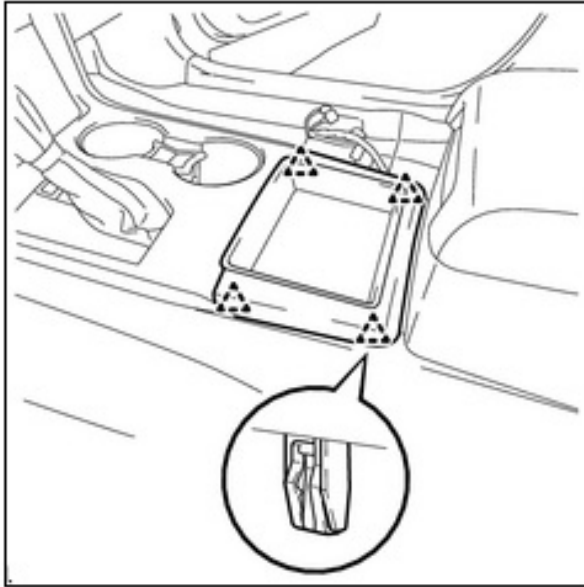


Figure 4

REMOVE UPPER CONSOLE BOX SUB-ASSEMBLY

4. Disengage the 4 clips to remove the upper console box sub-assembly. See Figure 4.
5. With Seat Heater System disconnect each connector.



Figure 5

REMOVE UPPER CONSOLE BOX SUB-ASSEMBLY



Use a trim panel removal tool to avoid damaging the part. See Figure 5.



Figure 6

LOCATE AND DRILL 1" DIAMETER HOLE INTO REAR END PANEL SUB-ASSEMBLY



Perform these steps on a padded surface to avoid damaging the part.

- Determine the hole's vertical centerline by first locating the bottom tab on the rear end panel sub-assembly's inside surface. See Figure 6.



Figure 7

LOCATE AND DRILL 1" DIAMETER HOLE INTO REAR END PANEL SUB-ASSEMBLY

- Measure 3.5" horizontally across from the tab and mark the hole's vertical centerline. Scribe the vertical centerline through this mark. See Figure 7.



Figure 8

LOCATE AND DRILL 1" DIAMETER HOLE INTO REAR END PANEL SUB-ASSEMBLY

8. Determine the hole's horizontal centerline by locating the center tab on the rear end panel sub-assembly's inside surface. See Figure 8.



Figure 9

LOCATE AND DRILL 1" DIAMETER HOLE INTO REAR END PANEL SUB-ASSEMBLY

9. Measure 2.0" down from the center tab along the vertical centerline scribed in Step 8 and mark the hole's horizontal centerline. Scribe the horizontal centerline through this mark. See Figure 9.



Figure 10

LOCATE AND DRILL 1" DIAMETER HOLE INTO REAR END PANEL SUB-ASSEMBLY

10. Drill a 1" diameter hole into the rear end panel sub-assembly at the point where the vertical and horizontal centerlines meet. The result is as seen in Figure 10.



Use a step drill bit.



Deburr any shavings in the hole.



Figure 11

MOUNT USB POWERPORT INTO REAR END PANEL SUB-ASSEMBLY



Perform these steps on a padded surface to avoid damaging the part.

11. Feed the power and ground wires through the 1" hole from the outside of the Rear End panel sub-assembly. See Figure 11.



Figure 12

MOUNT USB POWERPORT INTO REAR END PANEL SUB-ASSEMBLY

- 12. Feed the power and ground wires through the lock washer and nut. The lock washer goes on first. See Figure 12.



Figure 13a

MOUNT USB POWERPORT INTO REAR END PANEL SUB-ASSEMBLY

- 13. Hand-tighten the nut until snug. See Figures 13a & 13b.

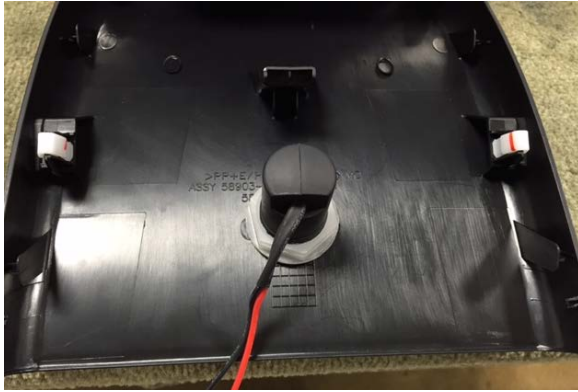


Figure 13b

MOUNT USB POWERPORT INTO REAR END PANEL SUB-ASSEMBLY



Align the flat, horizontal surface (where the power and ground wires exit) at the end of the USB Powerport with the bottom surface of the rear end panel sub-assembly. The result should look as shown in Figure 13b.

ROUTE USB POWERPORT'S POWER & GROUND WIRES



Figure 14

14. Feed the power & ground wires through the LH (driver's) side of the center console underneath the HVAC duct (if equipped). See Figure 14.



A wire fishing tool can be used to assist in this procedure.

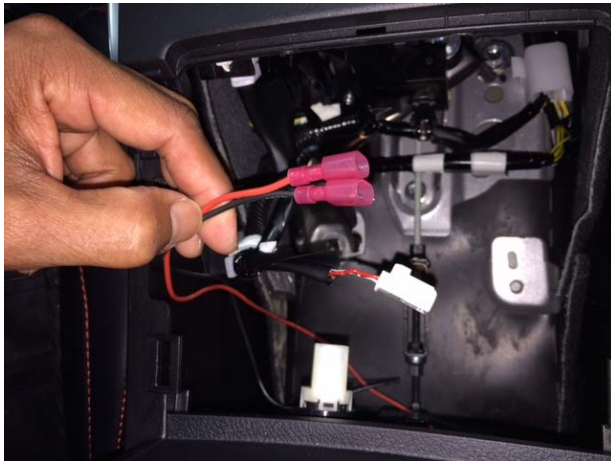


Figure 15

ROUTE USB POWERPORT'S POWER & GROUND WIRES

15. Pull the power & ground wires through the LH side of the center console through the upper console box opening. See Figure 15.

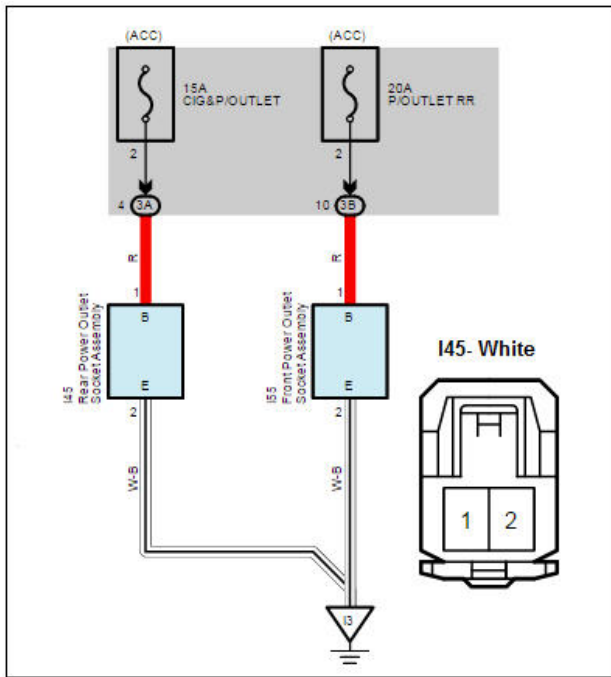


Figure 16

T-TAP REAR POWER OUTLET'S POWER & GROUND WIRES

16. Locate the white, rear power outlet socket assembly I45 (2 pin) in the center console underneath the upper console box sub-assembly. See Figure 16.

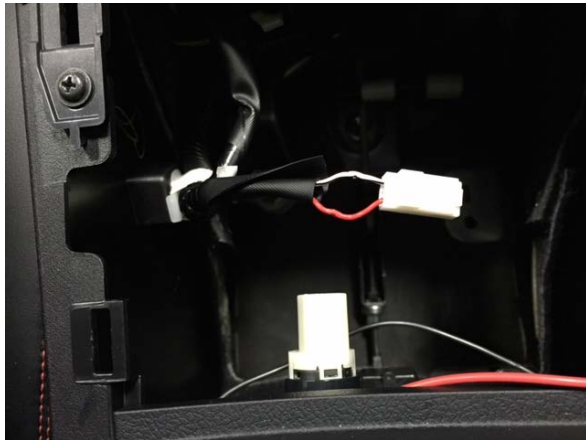


Figure 17

T-TAP REAR POWER OUTLET'S POWER & GROUND WIRES

17. Disconnect the white, rear power outlet socket assembly I45 and pull back the protective tape, if necessary to expose at least 2" of the power & ground wires behind the connector on the vehicle side. Separate the RED power wire from the WHITE/BLACK ground wire. See Figure 17.

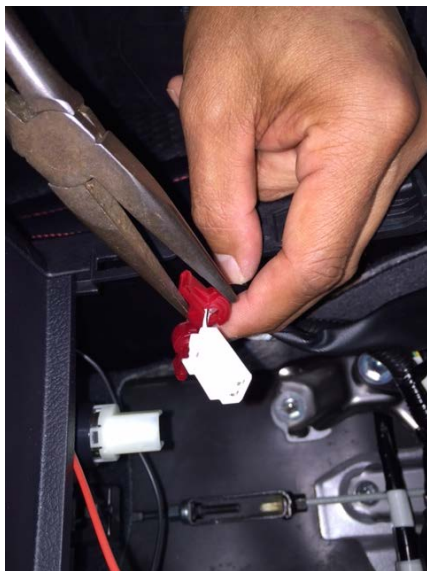


Figure 18

T-TAP REAR POWER OUTLET'S POWER & GROUND WIRES

18. T-Tap the RED power wire (Pin 2) & the WHITE/BLACK ground wire (Pin 1) from connector I45 using the supplied RED #951 T-Tap female connectors. See Figure 18.



Figure 19

T-TAP REAR POWER OUTLET'S POWER & GROUND WIRES

19. Connect the male spade T-Tap of the USB Power Port's RED power wire to the I45 connector's RED power wire (Pin 2). Connect the male spade T-Tap of the USB Power Port's BLACK ground wire to the I45 connector's WHITE/BLACK ground wire (Pin 1). See Figure 19.


 Before connecting, make sure the male spade T-Taps are not bent to one side to ensure they insert securely into their corresponding female T-Taps.



Figure 20

T-TAP REAR POWER OUTLET'S POWER & GROUND WIRES

20. Re-connect the white, rear power outlet socket assembly I45 (2 pin) in the center console. Bundle and secure the excess power & ground wires of the USB Powerport using the supplied 8" zip tie to the factory wire harness.


 Use foam tape to secure the USB Powerport's power & ground wires to the LH side of the center console.



Figure 21a

RE-INSTALL UPPER CONSOLE BOX SUB-ASSEMBLY

21. Align and engage the 4 clips to re-install the upper console box sub-assembly. Press firmly down on the assembly. See Figures 21a & 21b.

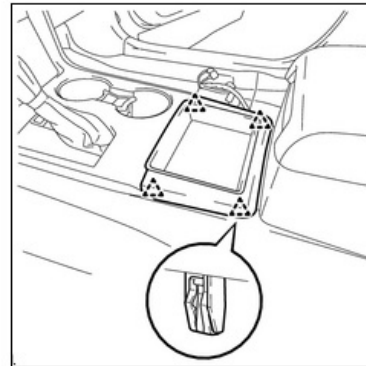


Figure 21b



Figure 22a

RE-INSTALL CONSOLE REAR END PANEL SUB-ASSEMBLY

22. Align and engage the 4 claws and the 4 clips to re-install the rear end panel sub-assembly. Press firmly on the assembly. See Figures 22a & 22b.



Use foam tape to secure the USB Powerport's power & ground wires to the LH side of the center console.

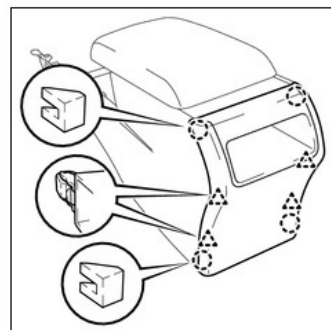


Figure 22b



Figure 23

RE-INSTALL CONSOLE REAR END PANEL SUB-ASSEMBLY

23. The USB Powerport’s protective flip cap should open downward so that the POWER ONLY / NO AUDIO notice faces up. See Figure 23.

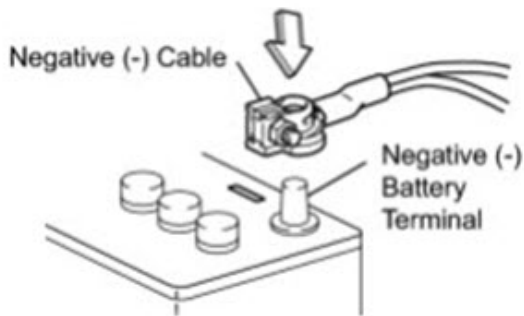


Figure 24

24. Tighten the negative battery cable. See Figure 24.



Torque: 48 in*lbs



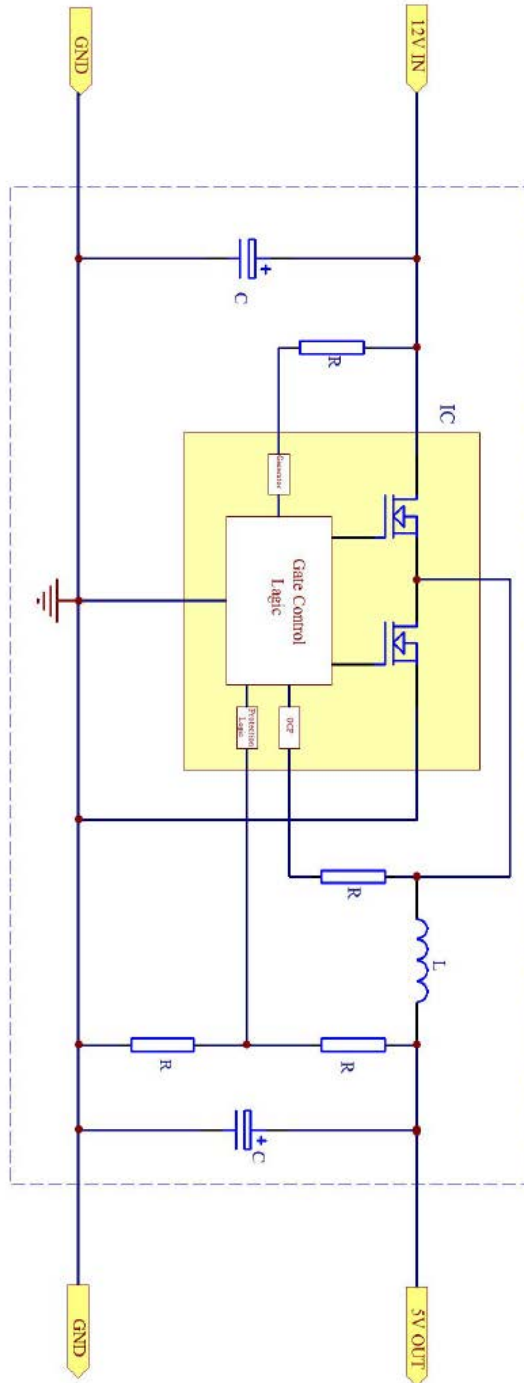
Caution: DO NOT touch the positive terminal.

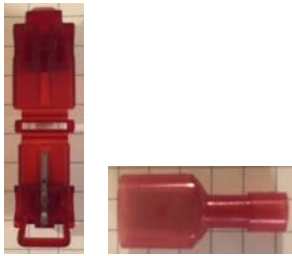
<p>CHECKLIST - these points MUST be checked to ensure a quality installation.</p> <p>Check after installation:</p> <ul style="list-style-type: none"><input type="checkbox"/> USB power ports are aligned horizontally.<input type="checkbox"/> Turn ignition (ACC power) to ON.<input type="checkbox"/> LED power status light is on.<input type="checkbox"/> Both USB power ports supply power.	

BLOCK DIAGRAM
DUAL USB POWERPORT / SET PN 00016-00222

C2
T-Tap I45 Pin 1
White/Black Wire

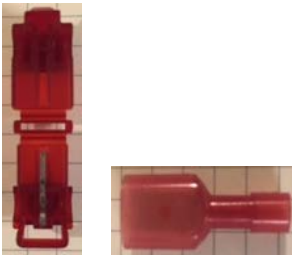
C1
T-Tap I45 Pin 2
Red Wire





Connector C1

Pin	Wire Color	Test Reference	Proper Operation
1	Black	Pin 1 to Ground	Approximately 0 VDC



Connector C2

Pin	Wire Color	Test Reference	Proper Operation
1	Red	Pin 1 to Ground	Approximately 0 VDC when ignition switch is OFF +12 VDC when ignition switch is ON

VEHICLE CONNECTOR I45 POWER CIRCUIT & I45 GROUND CIRCUIT

