

Part Number: TAV-713



Kit Contents

Item #	Quantity Reqd.	Description
1	2	DRL's bezels w/LED DRL
2	1	Driver Box
3	1	Harness bag
4	1	User's card
5	1	Cushion pad
6	1	Switch
7	2	Drill Jigs

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	1	Hood Wire Harness
2	1	Cabin Wire Harness
3	25	8" Wire ties
4	2	Black T-Taps
5	1	14" wire tie
6	1	Relay
7	2	DRL Connectors

General Applicability

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Conflicts

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Recommended Tools

Safety Tools	
Safety Glasses	
Protective tape	
Electrical Tape	
Installation Tools	
10mm Wrench	
Phillips Screw Driver	
Pliers	
Fish Tool	
Panel Tool Removal	
10 mm drill bit	
Side Cutters	
Torque Wrench	
Special Chemicals	
3M Silicon Sealant	

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
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation
	TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process
	REVISION MARK: This mark highlights a change in installation with respect to previous issue.

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 quality installation.

Preparation



Remove negative battery cable

- Place the vehicle in Park with the parking brake set.

Hybrid vehicles, the battery is in the trunk

- Remove the Battery Cover (for hybrid vehicles only)

Gas vehicles, the battery is in the Engine compartment

- Disconnect the negative Battery terminal
 - Note the Battery Cable Position as it will be re-installed in the same position

CAUTION: do not touch the positive battery terminal



Picture 1: Non-Hybrid Models



Picture 1B: Hybrid Models

Installation

- Route the DRL wire harness along the driver side from the battery (Hybrid: from left front) towards the firewall of the vehicle. Secure the wire harness with wire ties as needed (picture 1 & 1B: showing for regular and hybrid engine layout)

2. Optional step: Remove the air intake duct from intake manifold (pictures 2)



Picture 2

3. Locate the large vehicle harness grommet on the driver side. If accessible, cut the auxiliary wiring access nipple off the grommet or cut 1/4" slit in grommet. Using fish tool push the red, black, black-wire and red-white wires through firewall. Note: Extra caution should be taken not to damage the pins. Seal with 3M Silicone sealant from inside vehicle (picture 3).

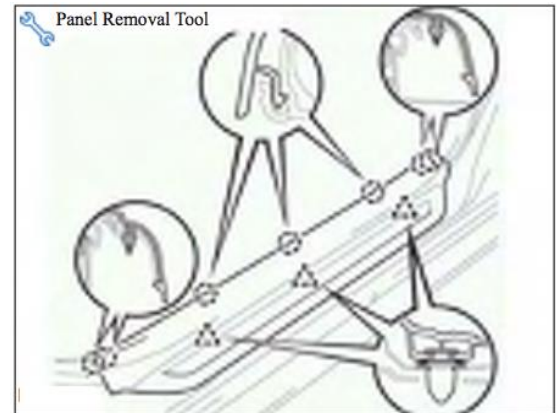


Picture 3

Vehicle Disassembly

4. Remove driver side door scuff plate

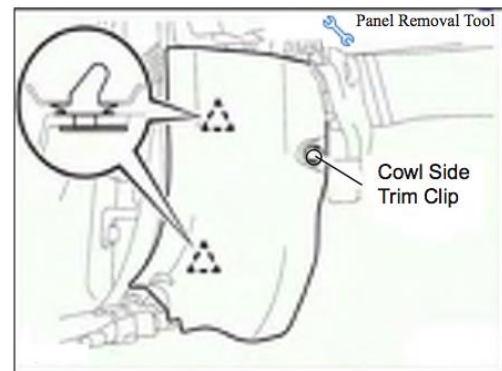
- a. Disengage with panel tool and remove (see picture 4)



Picture 4

5. Remove the driver side cowl side trim (see picture 5)

- a. Unscrew the cowl side trim clip
- b. Disengage two (2) clips and remove the cowl side trim (picture 5)



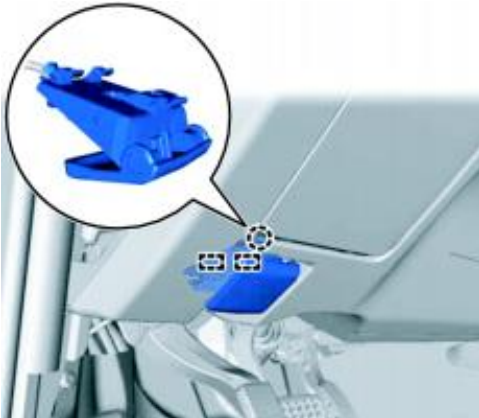
Picture 5

6. Remove the driver's side panel. Disengage with panel tool and remove (picture 6)



Picture 6

7. Disconnect the hood lock control lever. Disengage the claw and two guides (pic. 7)



Picture 7

8. Place masking tape on the center console panel prior to remove panel. Then loosen the center panel below a/c control (pic.8).



Picture 8

9. Remove lower left switch panel by removing a bolt, clips and a screw, then remove 4 bolts holding the knee air-bag (pic. 9 & 9A)



Picture 9



Picture 9A

10. Locate the wires that were pushed through the grommet in step 3. Route wire harness towards the left side of steering wheel. Use wire ties as needed (picture 10)



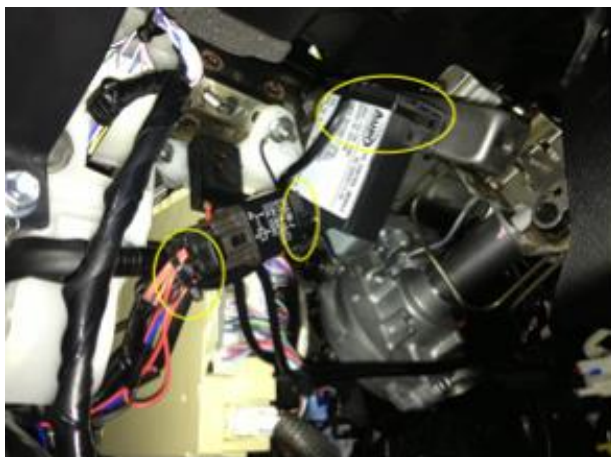
Picture 10

11. Using the driver box as a guide, push the pins of the DRL wire harness into the connector supplied in kit. Make sure that the wire colors of the connectors are aligned with the wire colors of the driver box: black with black and red with red, etc (picture 11)



Picture 11

12. Connect the driver box to the wire harness (make sure wire colors are aligned).
13. Install cushion pad on the back of driver box. Using a 14" wire tie, secure the driver box next to the main junction block (pic. 12).



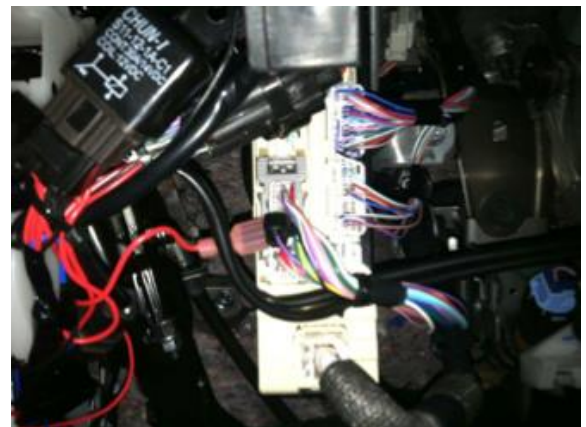
Picture 12

14. Secure the black wire with a ring terminal from DRL harness to ground location at top of main junction block (picture 13)



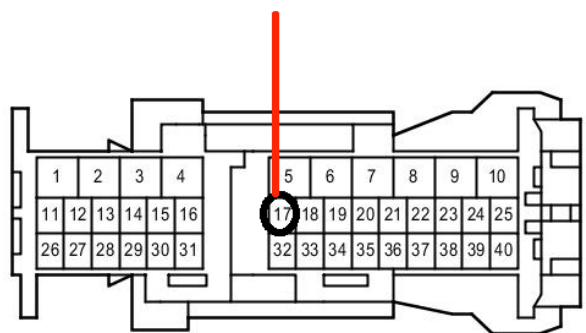
Picture 13

15. At connector 3D install a T-Tap to pin 17, violet wire. This is part of the traction control circuit. Then connect the red wire from DRL harness to T-tap. Connector 3D is located at the main junction block (pictures 14, 15 and 16)

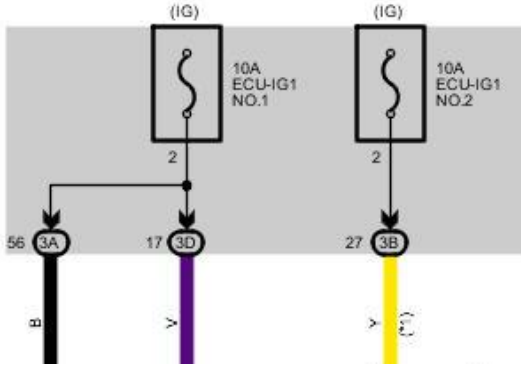


Picture 14

Red wire from DRL harness to pin 17 (violet wire)



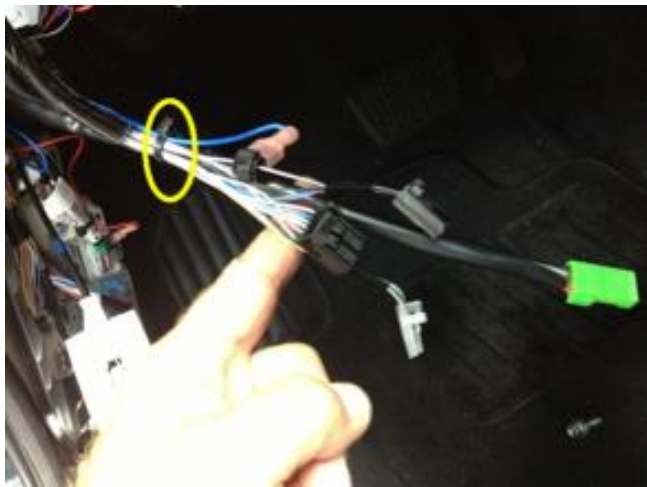
Picture 15: Traction control connector



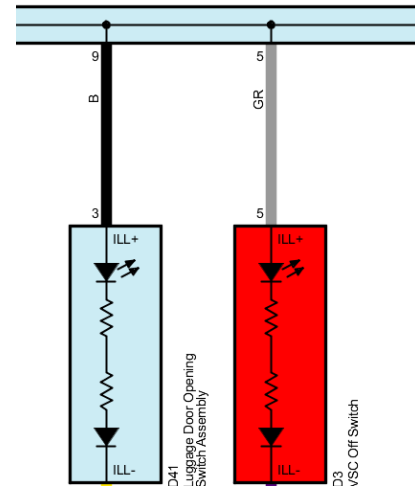
Picture 16: Traction control connector

- At VSC switch control connector D3, pin 5, install a T-Tap to the gray wire. Then connect the blue wire from DRL harness to t-tap. Connector D3 is located at the VSC dash switch. (pictures 17, 18 and 19).

Note: Use a wire tie to secure blue wire to the wire harness as indicated in pic. 17. Leave enough lead for switch connector to reach DRL switch (green connector below).

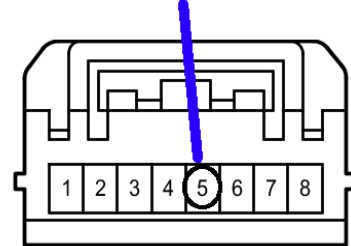


Picture 17



Picture 18: VSC Switch

Blue wire from DRL harness to pin 5 (gray wire)



Picture 19: VSC switch connector D3

- Secure any excess wire from t-taps, fuse and relay to main wire harness (picture 20). Make sure to leave enough lead on the switch green connector.



Picture 20

18. Reinstall knee airbag and torque the 4 bolts to 7 ft-lbs.
19. Remove dash switch plug from switch panel and install DRL switch into dash (picture 21)



Picture 21

20. Reinstall all panels and connectors inside car, including DRL switch connector.

Engine Compartment

21. Remove cowl cover (top radiator cover). Remove the 9 push pins (picture 22)



Picture 22

22. Remove the hood center cushion on LH and RH sides (picture 23)



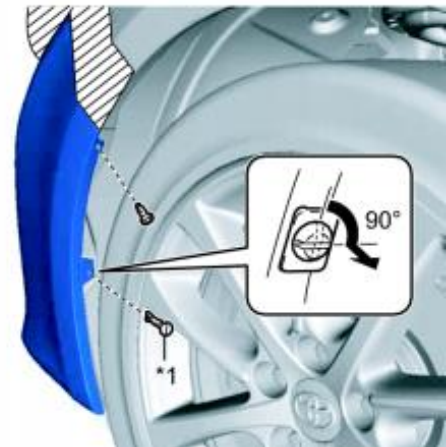
Picture 23

23. Put protective tape around front bumper (picture 24)



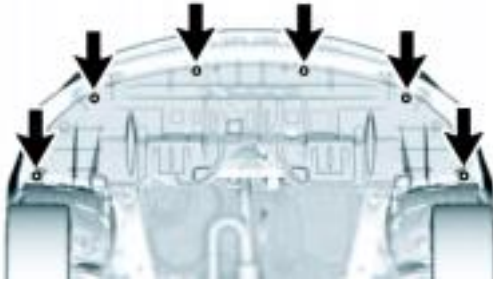
Picture 24

24. Remove the top screw securing fender lining. Then, using a screwdriver, turn clip 90 degrees and remove the pin/clip. Use same procedure for LH and RH sides (picture 25)



Picture 25

25. Remove lower splash shield 6 screws on the bottom of bumper (picture 25)



Picture 26

26. Remove lower splash shield by removing the remaining push pins at the bottom of splash shields (pictures 27 and 28)



Picture 27



Picture 28

27. Disengage the 3 claws on both sides of bumper (picture 29)



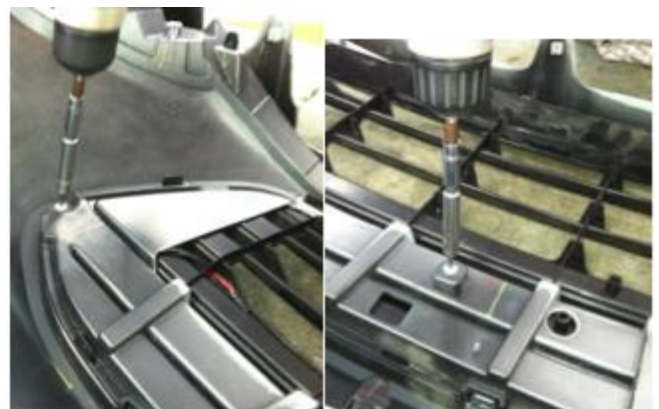
Picture 29

28. Pull back the side of front bumper and disconnect connectors on both sides.
 29. Using a clip remover, remove 3 clips on top of bumper, then pull bumper off (pic. 30)

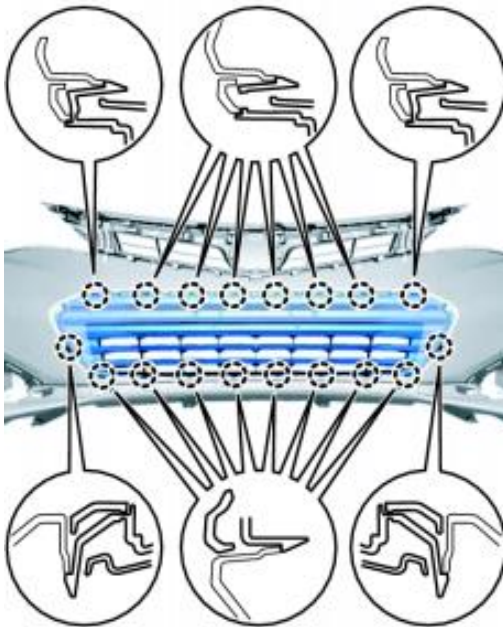


Picture 30

30. Remove the energy absorber from bumper.
 31. Put bumper on a workbench and remove lower radiator grill: Remove 2 screws then disengage 18 claws (picture 31 and 31A)



Picture 31



Picture 31A

32. Place the grill on a workbench. On the front of the grill, place the LH drilling jig (supplied in kit) on grill. Refer to picture for location of holes (between 1st and 2nd slat of grill), then drill 3x 10 mm holes. Repeat step for RH side (picture 32 and 32A).



Picture 32



Picture 32A: showing holes from back of grill.

33. Install DRL on grill with supplied screws (picture 33). Tuck the DRL wire on the lower part of grill, so it can be easy retrieved after mounting grill into bumper. Take extra care not to damage DRL connector while passing through grill



Picture 33

34. On the driver side, route the DRL wire harness to reach the driver side fog light area (picture 34)



Picture 34

35. Using a fish tool, pull the DRL wire harness through the bumper, from the driver side towards the passenger side (picture 35).
36. Wire tie DRL harness as needed. Leave enough lead to plug into DRL's.



Picture 35

37. Reinstall lower radiator grill into bumper.
38. Remount energy absorber onto vehicle, then remount bumper onto car. Reconnect factory wires and connect DRL wire harness to DRL's.

39. Reconnect negative battery terminal. Gas Engine models: Torque to 61 in/lbs. Hybrid models torque to 48 in/lbs

Check System for Operation

1. DRL will work at full power when ignition switch is ON. DRL will dim out to DOT specifications when lights are ON.
2. If DRL switch position is off, DRL will not work at any time.



Check

Accessory Functions Checks

- DRL function.....
- All Panels snapped into place.....
- Battery Terminal.....

Vehicle Function checks

- Check functions all switch functions

Look For:

....

- Loose panels and switches
- Re-torque battery terminals Gas Engine models: Torque to 61 in/lbs. Hybrid models torque to 48 in/lbs