

Part Number: TTA-2N1



Kit Contents

Item #	Quantity Reqd.	Description
1	2	DRL + Fog Light Housing
2	1	Driver Box
3	1	Harness bag
4	1	User's card
5	1	Switch

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	Phillip Head Screws
8	2	DRL Connectors

General Applicability

SR5, TRD Sport, TRD Off-Road, Limited

Conflicts






IMPORTANT NOTICE!!
 This LED Upgrade Kit Requires the Vehicle to be Equipped with Factory Installed Halogen Fog Lights

Recommended Tools

Safety Tools	
Safety Glasses	
Protective tape	
Electrical Tape	
Installation Tools	
10mm Wrench	
Phillips Screw Driver	
Pliers	
Panel Tool Removal	
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.

SPECIAL NOTE:
 After **Auer Automotive 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. Also some items listed to be removed may not need to be removed if caution is taken to not damage vehicle.

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



Installation

1. From front of vehicle, lay the DRL's wire harness on the engine compartment, left side from the battery towards the firewall of the car.
2. Locate the large vehicle harness grommet on the left side. If accessible, cut the auxiliary wiring access nipple off the grommet or cut 1/4" slit in grommet and push the red, black, black-white and red-white wires through firewall. Note: Extra caution should be taken not to damage the connector's pin. Seal with 3M Silicone sealant (picture

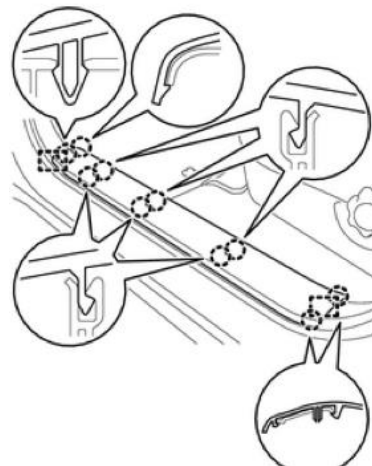
1)



Picture 1

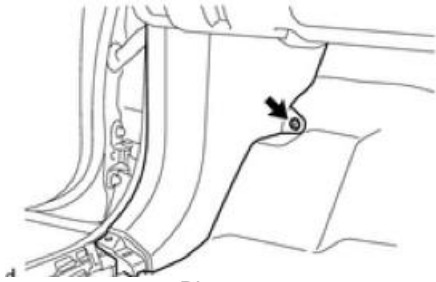
Vehicle Disassembly

3. Remove driver side door scuff plate. Disengage with panel tool and remove (picture 2)

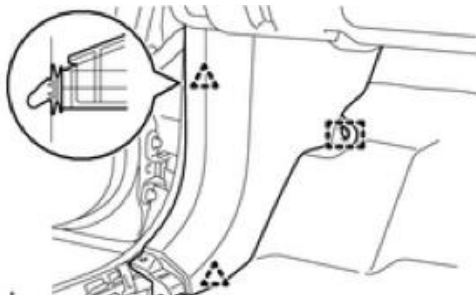


Picture 2

4. Remove the driver side cowl side trim: Remove clip, then disengage cowl plate (pictures 3 and 3A)



Picture 3



Picture 3A

5. Remove the dash panel on the left side of steering wheel (picture 4).



Picture 4

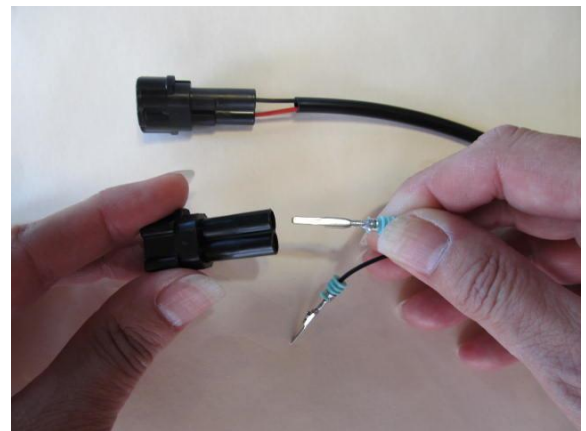
6. From inside the cabin, locate the wires that were pushed through in step 2. It will be the

grommet left of the emergency brake (picture 5).



Picture 5

7. Route the wire harness to reach the left area of the steering wheel
8. Push the pins into the connector supplied in kit. The plastic connects have a mark with a positive (+) and a negative (-) symbol. Push the red wires into the "+" symbol and the black wires into the "-" symbol (picture 6)



Picture 6

9. Connect the driver box to the wires pushed into the connectors on step 8 (make sure wire colors are aligned: black with black and red with red).
10. Using a 14" wire tie, secure the driver box next to the steering wheel column (pic. 7).

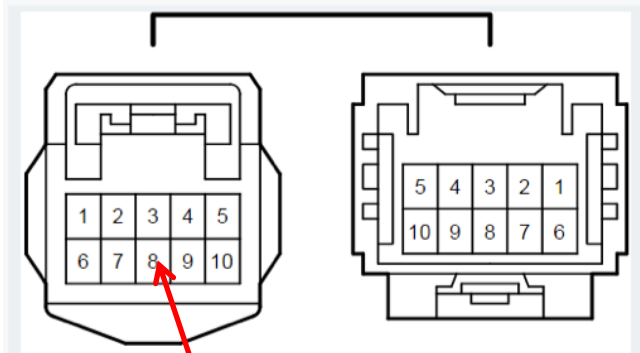


Picture 7

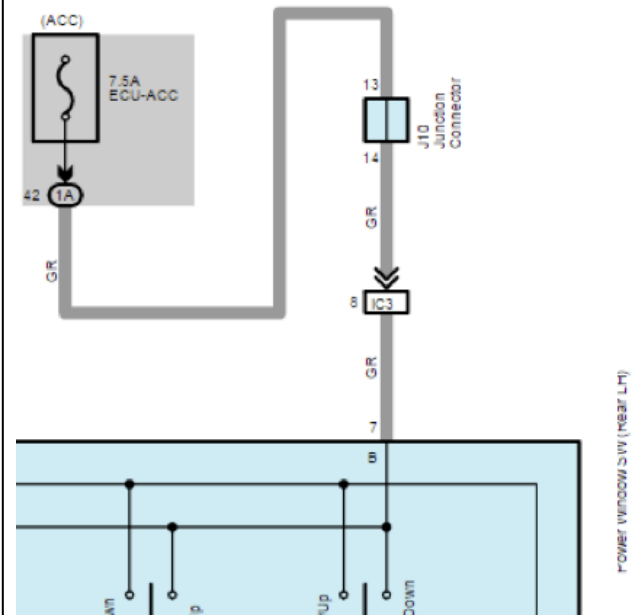
11. Install a BLACK T-tap to connector IC3 pin 8, gray wire. IC3 is located at the kick panel. Then connect the red wire from DRL harness to the t-tap (pictures 8-8C).



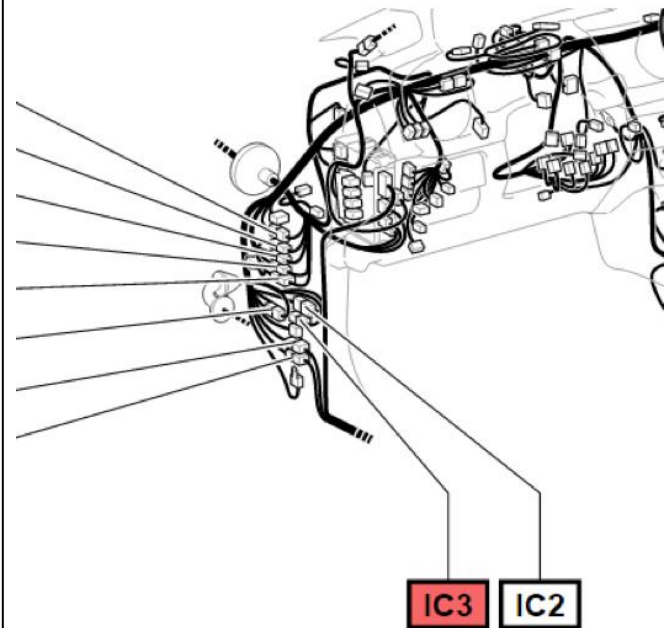
Picture 8: DRL red wire to connector (IC3, pin8)



Picture 8A



Picture 8B

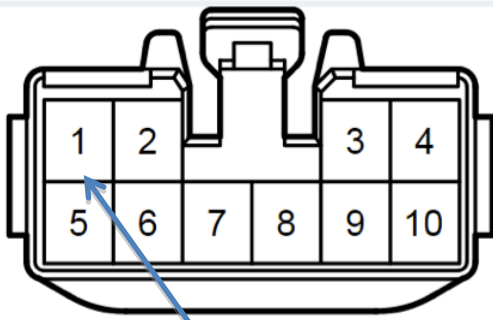


Picture 8B

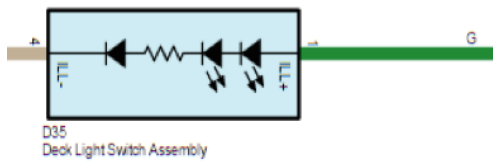
12. Install a BLACK T-tap to connector D35 pin 1, green wire. D35 is located at the back of the cargo light switch. Then connect the blue wire from DRL harness to the t-tap (pictures 9-9C).



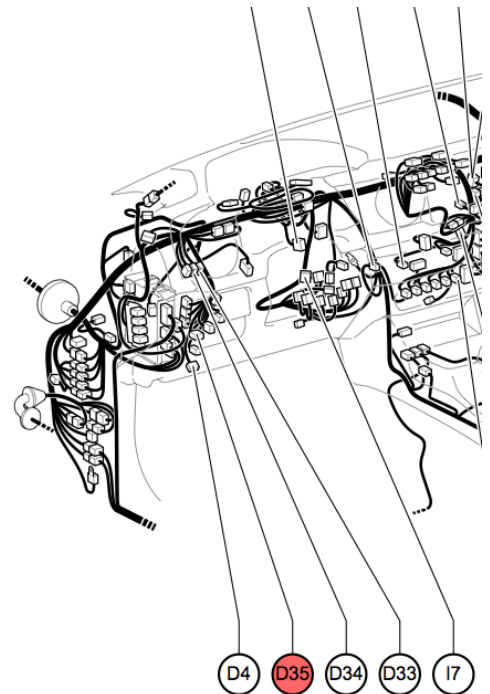
Picture 9: DRL blue wire to connector D35, pin1 (green wire)



Picture 9A

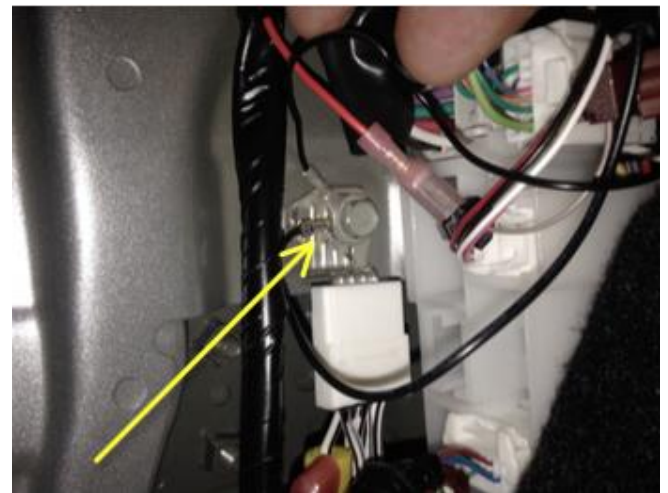


Picture 9B



Picture 9C

- Secure ground (black) wire to bolt by the kick panel (picture 10).



Picture 10

- Secure relay, fuse and any excess wire from t-taps to factory wire harness, next to driver box (picture 11).



Picture 11

- 15. Use an empty switch knock out on left panel, (next to the cargo light switch) and mount switch into switch knock out (picture 12).



Picture 12



Picture 12A

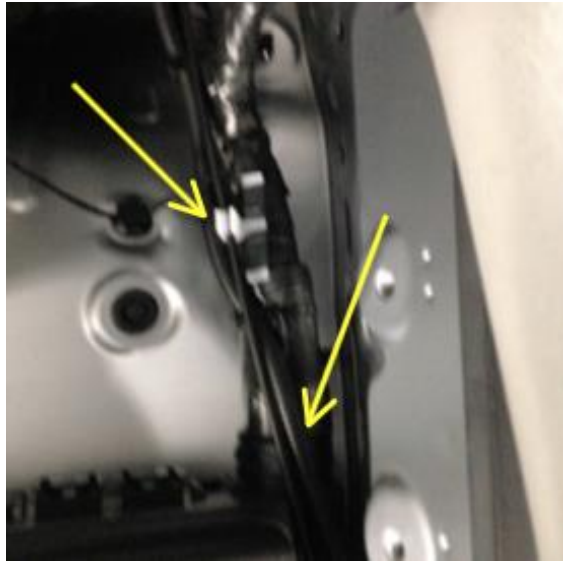
- 16. Plug DRL harness into switch.
- 17. Reinstall dash panels and connectors.

ENGINE COMPARTMENT

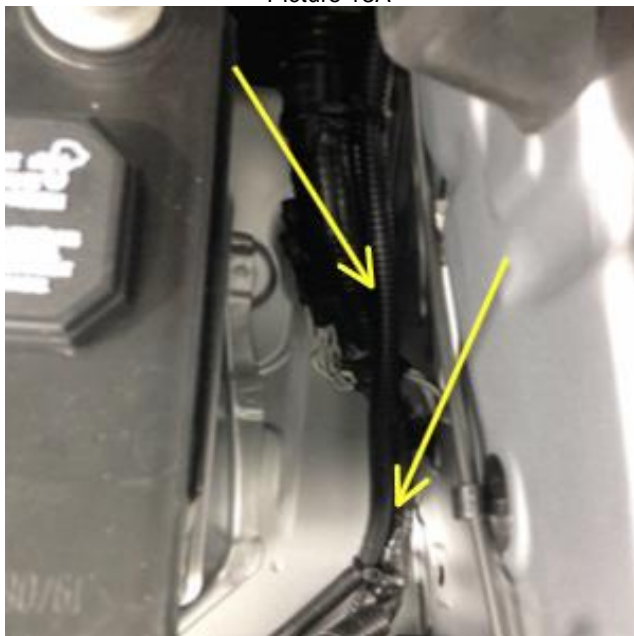
- 18. Using wire ties, secure the DRL's wire harness along the driver side of vehicle (pictures 13~13B)



Picture 13

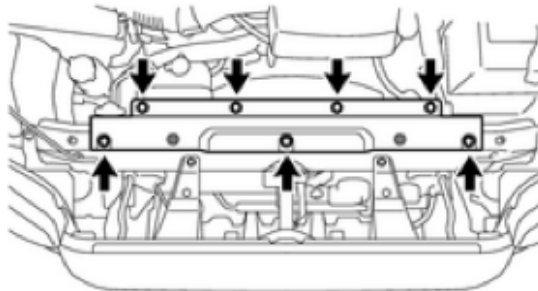


Picture 13A



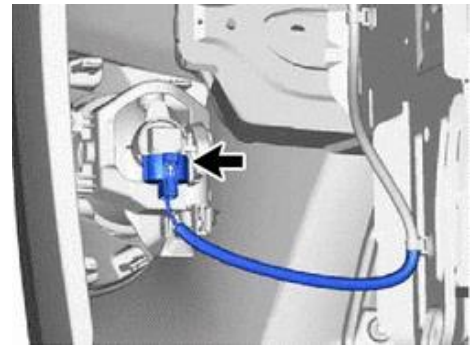
Picture 13B

19. Remove the radiator cover shield (picture 14)

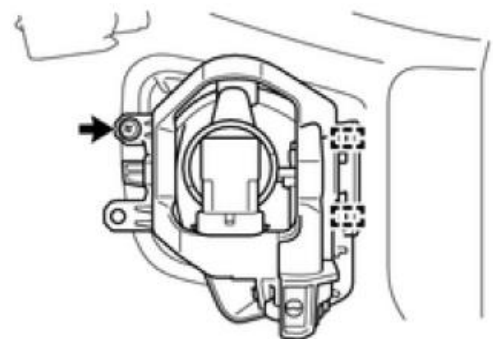


Picture 14

20. Run the wire harness to the right side on top of the radiator housing and drop right side of wire harness to reach behind headlamp compartment area.
21. Unplug the driver side factory fog light by accessing from up above the headlamp (picture 15). Then remove the factory fog light: remove Philip screw (do not discard screw, as it will be used to mount 2in1 light).



Picture 15



Picture 15A

22. Repeat step 19 on passenger side.
23. Mount the LH and RH 2 in 1 Lights into bezels.
24. At the driver side, take the 2 in 1 light and plug the factory fog light connector into 2 in 1 fog light terminal and then connect the DRL harness to the 2 in 1 light DRL terminal (picture 16).



Picture 16

25. Repeat process for passenger side.
26. Secure excess wires at both sides with wires ties (picture 17).



Picture 17

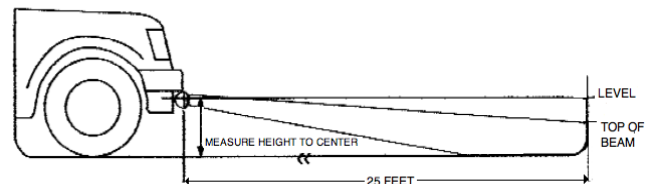
27. Reinstall all panels and radiator grill.
28. Reinstall negative battery cable and torque to 48 in-lbs
29. From up above the headlamp, adjust fog light aiming by following the procedure below.

Fog Light Aiming

Traditional fog lights are usually mounted in the front bumper about 10-24 inches from the ground. There are two important issues to address when installing fog lights: the first is to minimize the amount of return glare into the drivers eyes, and the other is to minimize the glare into oncoming eyes. Both of these issues must be accomplished while putting as much light as possible on the road.

These fog weather light aiming instructions are suggestions taken from common practice and the S.A.E. standard J583. Some modifications to these instructions may be necessary to minimize glare.

Visual aim is made with the top of the beam 4 inches below the lamp center at 25 feet with the lamp facing straight forward (see picture 18)



Picture 18

⚠ NOTE: Use only hand tools to adjust the fog light aiming screw. DO NOT use automatic tools, as they will damage the fog light

Checklist – these points MUST be checked to ensure quality installation

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.....
 - Fog Lights function.....
 - All Panels snapped into place.....
 - Fog Lights.....
 - Battery Terminal.....
 - Operation Guide.....

Vehicle Function checks

Check functions all switch functions

Look For:

-
-
 -
 - Loose panels and switches
 - Visually confirm lights are straightforward
 - Re-torque battery terminals to 48 in-lb
 - Place DRL operation guide inside glove box.