ΤΟΥΟΤΑ

2016

LED Fog Light & DRL 2in1

Part Number: 00016-35061 Accessory Code: LD4010



Conflicts

- Vehicles w/o factory Fog Lights 10 cpwcn'Vtcpuo kuukqp

TACOMA

Kit Contents

1110 0011					
Item #	Quantity Reqd.	Description			
1	2	Fog + DRL Housings			
2	1	DRL Driver Box			
3	1	DRL Harness Bag			
4	1	DRL User's Card			
5	1	DRL Switch			

Hardware Bag Contents

	0	
Item #	Quantity Reqd.	Description
1	1	Hood Wire harness
2	1	Cabin Wire harness
3	1	Relay
4	25	Wire ties
5	1	14" wire tie
6	2	Black T-Tap
7		

Additional Items Required For Installation

Recomm	nended Tools	
Item #	Quantity Reqd.	Description

Safety Tools		
Safety Glasses		
Electrical Tape		
Installation Tools		
10mm Wrench		
Phillips Screw Driver		
Nylon Pry Tool		
Torque Wrench	48 in-lb	
Side Cutters		
Special Chemicals		
3M Silicon Sealant		

Accessory Service Parts

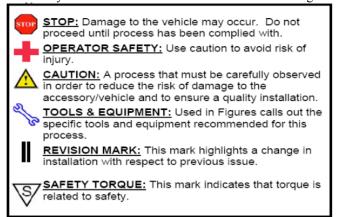
Part Number	DRL + Fog Housing LH	DRL + Fog Housing RH	DRL Switch	DRL Wire Harness	DRL Driver Box	DRL Relay
00016-00081-01	Х					
00016-00081-02		Х				
00016-35054-01			Х			
00016-32270-03				Х		
00016-32270-06					Х	
00016-32260-04						Х

General Applicability

Models: Cm'Cwqo cvke'Wpku

Recommended Sequence of Application

110001111	enata sequence of tipp	neution
Item #	Accessory	
1		
2		
3		
Mandator	V	Legend



SPECIAL NOTE:

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. Also some items listed to be removed may not need to be removed if caution is taken to not damage vehicle.

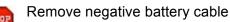
ТОУОТА ТАСОМА

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. 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)
- Vehicle Disassembly / Reassembly (panel removal, part storage, etc)

Preparation





Installation

- 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 ¼" slit in grommet and push the red, black, black-white and red-white wires through firewall. <u>Note</u>: Extra caution should be taken not to damage the connector's pin. Seal with 3M Silicone sealant (picture

1)



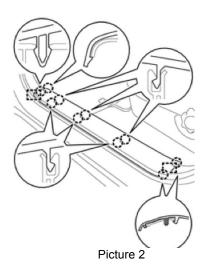
Picture 1

Vehicle Disassembly

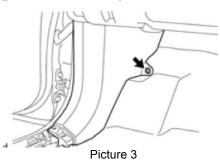
Remove driver side door scuff plate.
Disengage with panel tool and remove (picture 2)

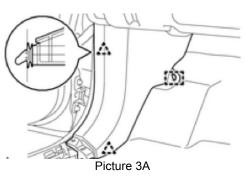
ΤΟΥΟΤΑ

TACOMA



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





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



 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).



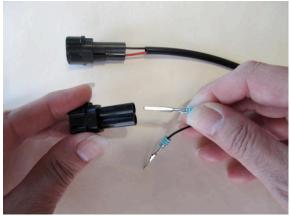
Picture 5

- 7. Route the wire harness to reach the left area of the steering wheel
- 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)

ТОҮОТА

TACOMA

LED Fog Light & DRL 2in1



Picture 6

- 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 to next to the steering wheel column (pic. 7).

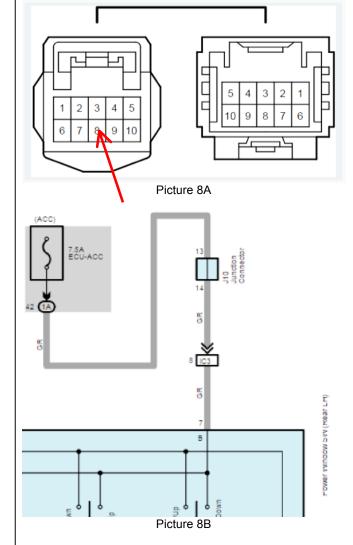


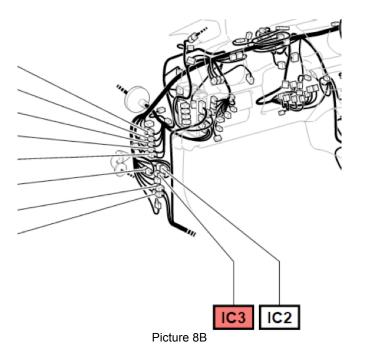
Picture 7

 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)

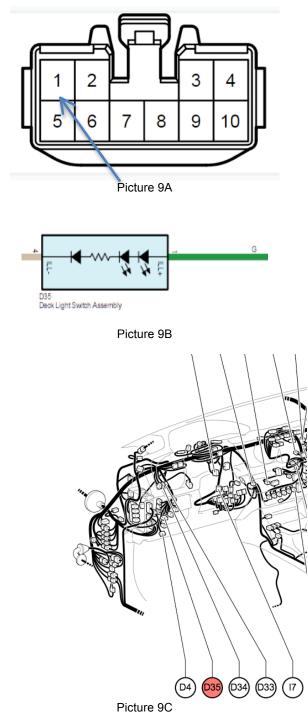




 Install a BLACK T-tap to connector D35 pin 1, green wire. D35 is located at the back of the cargo light switch. Then connect the blue wire from DRL harness to the t-tap (pictures 9~9C).



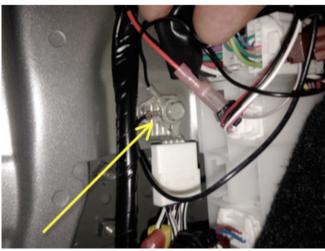
Picture 9: DRL blue wire to connector D35, pin1 (green wire)



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

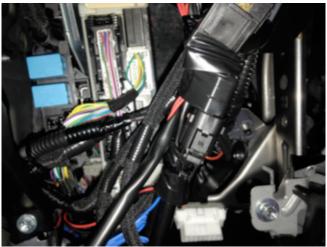
ΤΟΥΟΤΑ

TACOMA



Picture 10

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



Picture 11

 Use an empty switch knock out on left panel, (next to the cargo light switch) and mount switch into switch knock out (pics. 12~12A).

LED Fog Light & DRL 2in1



Picture 12



Picture 12A

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

ENGINE COMPARTMENT

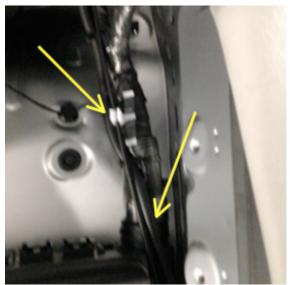
 Using wire ties, secure the DRL's wire harness along the driver side of vehicle (pictures 13~13B)

ТОУОТА ТАСОМА





Picture 13



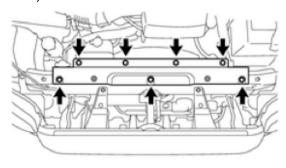
Picture 13A

LED Fog Light & DRL 2in1



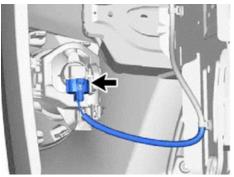
Picture 13B

Remove the radiator cover shield (picture 14)

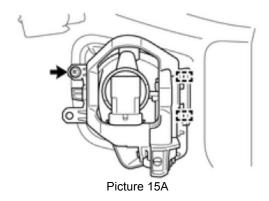


Picture 14

- 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.
- 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



- 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 in1 fog light terminal and then connect the DRL harness to the 2 in 1 light DRL terminal (picture 16).



25. Repeat process for passenger side.

LED Fog Light & DRL 2in1

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.

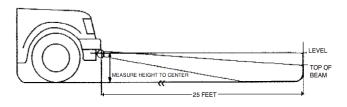
Fog Light Aiming

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.

ТОУОТА ТАСОМА

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

- DRL will work at full power when ignition switch is ON. DRL will dim out to DOT specifications when lights are ON.
- 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

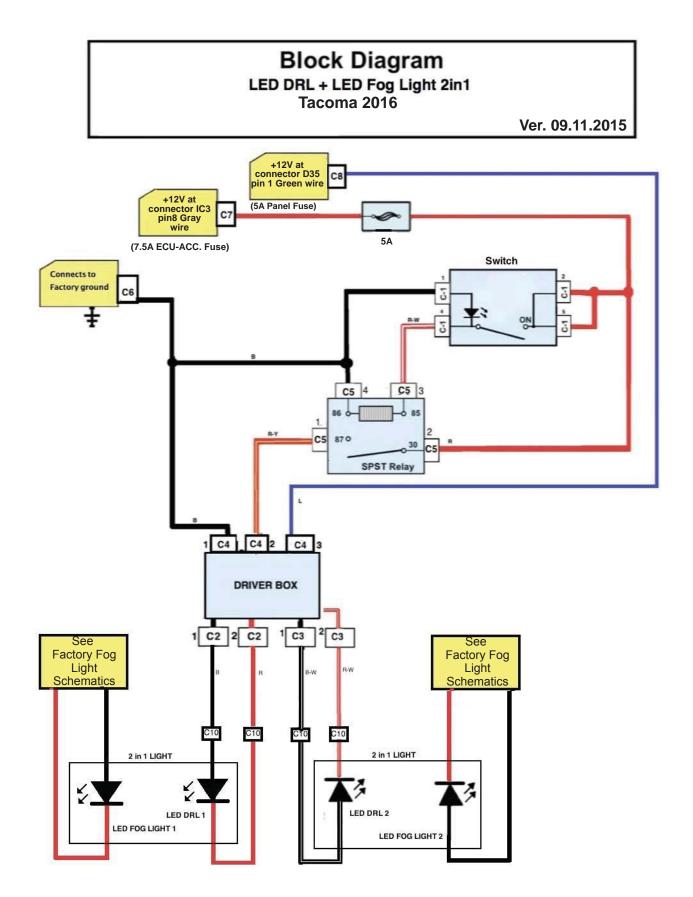
Look For:

....

. . . .

- Loose panels and switches
- Visually confirm lights are straightforward
- Re-torque battery terminals to 48 in-lb

- Place DRL operation guide inside glove box.



Pinout test

Connector C-1



Pin	Wire Color	Test Reference	Proper Operation
1	Black	Pin 1 to Ground	Approximately 0 VDC
2	Red	Pin 2 to Ground	Approximately 0 VDC ignition switch is OFF +12 VDC when ignition switch is ON
4	Red-White	Pin 4 to Ground	Approximately 0 VDC ignition switch is OFF Approximately 0 VDC ignition switch is ON, DRL switch is OFF +12 VDC when ignition switch is ON and DRL switch is ON
5	Red	Pin 5 to Ground	Approximately 0 VDC ignition switch is OFF +12 VDC when ignition switch is ON

Connector C-2, C-3



Pin	Wire Color	Test Reference	Proper Operation
1	Red or Red-White	Pin 1 to Ground	Aproximately 0 VDC when igntion switch is OFF Aproximately 0 VDC when ignition switch is ON, DRL switch is OFF Aproximately +18 to +24 VDC when ignition switch is ON, DRL switch is ON
2	Black or Black-White	Pin 2 to Ground	Aproximately 0 VDC

Connector C-4



Pin	Wire Color	Test Reference	Proper Operation
1	Black	Pin 1 to Ground	Aproximately 0 VDC
2	Red-Yellow	Pin 2 to Ground	Approximately 0 VDC ignition switch is OFF Approximately 0 VDC ignition switch is ON, DRL switch is OFF +12 VDC when ignition switch is ON and DRL switch is ON
3	Blue	Pin 3 to Ground	Aproximately 0 VDC dash panel lights are OFF +12 VDC when dash panel lights are ON

Connector C-5



FEMALE TERMINAL VIEW

Pin	Wire Color	Test Reference	Proper Operation
1	Red-Yellow	Pin 1 to Ground	Approximately 0 VDC ignition switch is OFF Approximately 0 VDC ignition switch is ON, DRL switch is OFF +12 VDC when ignition switch is ON and DRL switch is ON
2	Red	Pin 2 to Ground	Approximately 0 VDC ignition switch is OFF +12 VDC when ignition switch is ON
3	Red-White	Pin 3 to Ground	Approximately 0 VDC ignition switch is OFF Approximately 0 VDC ignition switch is ON, DRL switch is OFF +12 VDC when ignition switch is ON and DRL switch is ON
4	Black	Pin 3 to Ground	Aproximately 0 VDC

Connector C-6



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

Connector C-7

	6-1

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

Connector C-8

Pin	Wire Color	Test Reference	Proper Operation				
1	Blue	Pin 1 to Ground	Aproximately 0 VDC dash panel lights are OFF +12 VDC when dash panel lights are ON				

Connector C-10



Pin	Wire Color	Test Reference	Proper Operation
1	Black	Pin 1 to Ground	Aproximately 0 VDC
2	Red	Pin 2 to Ground	Aproximately 0 VDC when igntion switch is OFF Aproximately 0 VDC when ignition switch is ON, DRL switch is OFF Aproximately +18 to +24 VDC when ignition switch is ON, DRL switch is ON