Part Number: PT413-18170

Kit Contents

Item #	Quantity Reqd.	Description
1	2	Fog Lights
2	1	LH Fog Light Bezel
3	1	RH Fog Light Bezel
4	1	Extension Harness
5	1	LH Adapter Bracket
6	1	RH Adapter Bracket
7	1	Switch Panel
8	1	Switch

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	6	Nylon Lock-Nut, M6X1
2	6	Hex Flange Screw, M6X1
3	6	Self-tapping Screw, M4.2X1.4
4	1	Wire Tie
5	1	Foam Pad

Additional Items Required For Installation

ŀ	Additional Items Required For Installation			
	Item #	Quantity Reqd.	Description	┓╹
	1			
	2			
	3			

Conflicts

None

General Applicability

All 86 models

Recommended Sequence of Application

Item #	Accessory
1	
2	
3	

*Mandatory

Recommended Tools

Personal & Vehicle	Notes
Protection	
Blankets	
Special Tools	Notes
Hella Photometric Beam	DIO Only
Setter (or equivalent)	
Installation Tools	Notes
Nylon Panel Removal Tool	
Ratchet	
Socket	10mm
Socket Extension	8"
Diagonal Cutters	
Pliers	
Screwdriver	#2 Phillips & Small Flat
	Blade
Wrench	10mm
Special Chemicals	Notes

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1		
2		
3		

Legend

STOP: Damage to the vehicle may occur. Do not TOP 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 S related to safety.

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.).

Please see your Toyota dealer for a copy of this document.





1. Prepare for the Installation.

- (a) The engine components and coolant may be hot, use caution.
- stor (b) Check the kit for contents and any damage.
 - (c) Protect the fender before starting.
- (d) Remove the battery cable from the negative terminal (Fig. 1-1).
- **CAUTION:** Do not touch the positive terminal with any tool.

2. Remove the Under Body Panels.

- (a) Raise vehicle as needed to access under body panels.
- (b) Remove the three (3) fasteners and one (1) bolt to remove the passenger side panel (Fig. 2-1).









(c) Remove the three (3) fasteners and one (1) bolt to remove the driver side panel (Fig. 2-2).

3. Remove the Bezels.

- (a) Apply protective tape around the outer edges of the bezel to protect the paint.
- (b) Push in (by hand) and release the five (5) circled clips (Fig. 3-1, left).
- (c) Pull the bezel out in the direction shown (Fig. 3-1, right).
- (d) Repeat on the other side.

4. Locate and Free the Harness Connection.

- (a) Locate the fog lamp harness connection secured with blue tape (Fig. 4-1).
- (b) Remove the blue tape.
- (c) Repeat on the other side.

5. Mount the Fog Lamp Adapter.

(a) Locate the fog lamp adapter (right adapter shown) (Fig. 5-1).



(b) Locate a fog light. It does not matter which one you choose as they are the same.







(c) Use three (3) self-tapping screws to mount the fog light to the adapter (Fig. 5-2).

NOTE: Make sure the locator pin is inserted into the hole that does not have a screw.

(d) Locate the other fog light adapter (left adapter shown) (Fig. 5-3).

(e) Use three (3) self-tapping screws to mount the fog light to the adapter (Fig. 5-4).









6. Install the Fog Lamps.

(a) Align the fog light adapter holes to the holes indicated by the circles in Fig. 6-1.

(b) Secure the fog lamp assembly using three (3) bolts, inserted from the front (Fig. 6-2).

(c) Secure the bolts with three (3) nuts (Fig. 6-3).NOTE: Use a 10mm wrench to hold the nuts while tightening the bolt.

- (d) Connect the harness to the fog lamp (Fig. 6-4).
- (e) Repeat Step 6 on the other side.



7. Install the Bezel.

- (a) Press a bezels into place. Verify the longer snaps insert correctly into the bumper (Fig. 7-1).
- (b) Ensure all of the bezel clips engage securely into the bumper.
- (c) Remove the protective tape.
- (d) Install the bezel on the other side.
- (e) Reinstall the under body panels removed in Step 2.
- (f) Lower the vehicle.

Panel removal tool

8. Remove the Interior Panels.

- (a) Apply protective tape (Fig. 8-1).
- (b) Remove the side panel (Fig. 8-1).



(c) Note the approximate location of the screws that will be removed in Step 8(d) (Fig. 8-2).







(e) Remove the screw located at the bottom right of the knee bolster panel (Fig. 8-3, right).

(f) Note the approximate location to use the panel removal tool in Step 8(f) (Fig. 8-4).

- (g) Release the knee bolster clips (Fig. 8-5).
- (h) Disconnect all connectors and remove the knee bolster from the vehicle.







9. Install the Switch and Switch Panel.

- (a) Press the release tabs to remove the switch panel from the knee bolster (Fig. 9-1, inset).
- (b) Remove the dimmer, blank, and trunk release switches from the existing switch panel and install them in the new switch panel (Fig. 9-1).

NOTE: The switch locations are embossed on the back of the switch panel.

(c) Install the supplied switch panel into the knee bolster.

10. Connect the Vehicle-Side Switch Harness.

(a) Note the location of the connector under the left side instrument panel (Fig. 10-1).



- (b) Locate the vehicle-side connector. The connector is taped to the side of the harness; remove the tape indicated by the circle to expose the connector (Fig. 10-2).
- (c) Connect the extension harness to the vehicle harness.

Fig. 10-3	
Diagonal cutters Wire tie Fig. 10-4	(e) A T (f) C th di CAU switc (g) R 80
Fig. 10-5	(1
Phillips screwdriver	(2



- (e) Apply one (1) wire tie as shown (Fig. 10-4). Trim the excess.
- (f) Connect the harness with the yellow jacket to the fog light switch. Reconnect the trunk and dimmer switches.

CAUTION: Make sure the fog light and trunk switch connections are not reversed.

- (g) Reinstall the knee bolster removed in Steps 8(c) to 8(g).
 - Insert the top edge that was released in Steps 8(f) and 8(g) first (Fig. 10-5, indicated by arrows).

(2) Reinstall the screws removed in Step 8(d) and 8(e) (Fig. 10-6).

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Fig. 10-6





- (h) Reinstall the switch panel removed in Step 9(a) (Fig. 10-7).
- (i) Reinstall the side panel removed in Step 8(b).

11. Complete the Installation.

(a) Reconnect the battery negative cable (Fig. 11-1).

STorque: 5.4 N·m (48 in·lbs)

• **CAUTION:** Do not touch the positive terminal with any tool.

(b) Conduct a vehicle function check.





12. Aim the Fog Lights (DIO ONLY).

- (a) If available, use a Hella Photometric Beam Setter (or equivalent) to align the fog light beam (Fig. 12-1).
- (b) Alternate aiming method: Use a wall to aim the lights.
 - Position the vehicle on a flat surface at a distance of 25 feet (7.6m) from the fog light to a wall (Fig. 12-2).
 - (2) Measure the distance from the center of the lamp to the ground and mark off the same height on the wall. This is the fog light centerline (Fig. 12-2).
 - (3) Turn the fog lights on and adjust them so that the top of the beam (high intensity portion) falls 4 inches (102 mm) below the mark on the wall (the fog light centerline) (Fig. 12-2).
- (c) Use a Phillips screwdriver to turn the adjustment screw on the fog lights.

Check:	•
Accessory Function Checks	Look For:
Install a short pin (if necessary)	
Turn the headlights on	Headlights function as normal
Check the fog light switch illumination	Switch lights up
Turn the fog lights on	Fog lights turn on
Switch the high beams on	High beams on/Fog lights off
Turn the headlights off	Headlights and fog lights turn off
Check the fog light switch orientation	The lamp symbol faces left
Vehicle Function Checks	
Taillights/brake lights/turn signals	All function properly
Reverse lights & emergency flashers	Function properly
Mirror & dimmer controls	Function properly
Traction control	Functions properly
Trunk release	Functions properly
Vehicle Appearance Check	
After accessory installation and removal of protective cover(s), perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)