

HEAVY DUTY BUMPER INSTALLATION

2014-TOYOTA TUNDRA Rear w/wo backup sensors & cross traffic sensors

AL-RBM93TYN-KC
7/13/20

Hardware Kit Includes:

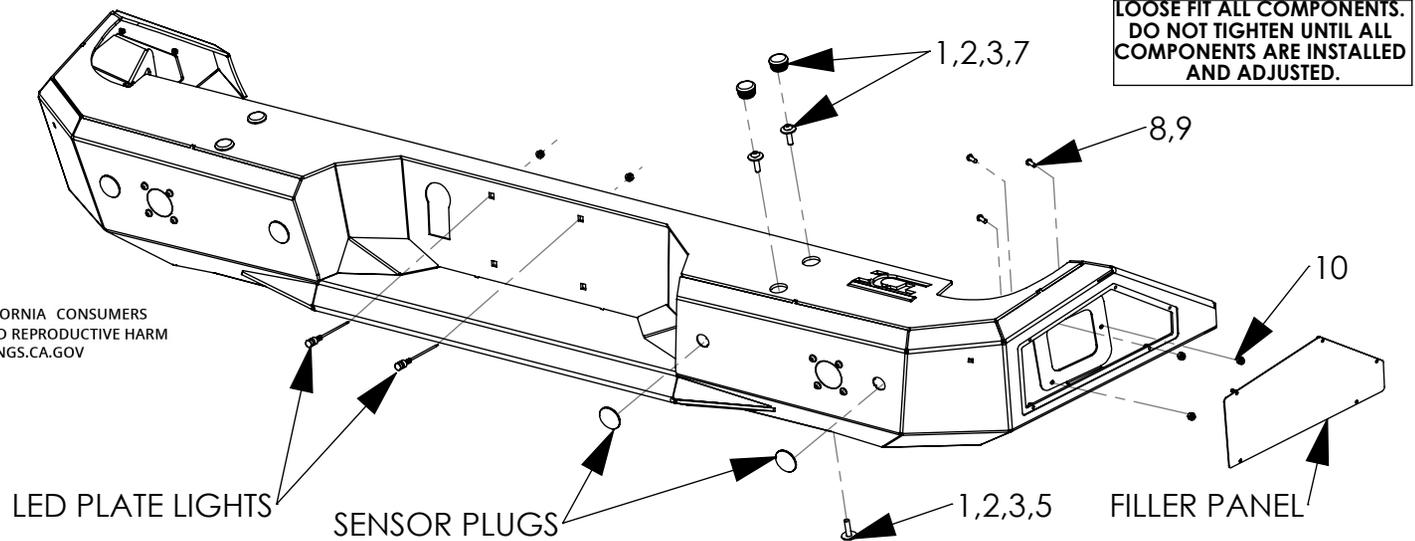
- 1-(8)-8mm -1.25 x 30mm Button Head Stainless
- 2-(8)-8mm Stainless Lock washer
- 3-(6)-8mm Stainless Flat washer (O.D. 24mm x 2mm)
- 4-(6)-8mm Stainless Flat washer (O.D. 16mm x 1.6mm)
- 5-(2)-8mm-1.25 stainless hex head nut
- 6-(4)-Square push-in license plate nuts #8435
- 7-(4)-1 1/8" plastic domed caps Heyco #2723
- 8-(6)-6mm-1.0 x 16 Button head stainless
- 9-(6)-6mm flat washer
- 10-(6)-6mm x 1.0 nylon locking nut



ATTN: STATE OF CALIFORNIA CONSUMERS
WARNING: CANCER AND REPRODUCTIVE HARM
-WWW.P65WARNINGS.CA.GOV

Components List:

- 1 – (1) Heavy Duty Bumper AL-RBM93TYN-KC
- 2 – (1) Plastic filler panel (driver side)
- 3 – (1) Plastic filler panel (passenger side)
- 4 – (2) Universal LED plate lights
- 5 – (2) Shim Spacers (2mm)



STEP-BY-STEP INSTRUCTIONS

1. Unplug the license plate light harness from the lights by pushing in gently and twisting one quarter turn to unlock. If equipped, remove the back up sensor harness by lifting up on retaining tabs and unplugging. remove the rear license plate from factory bumper, unplug and separate the 7-pin trailer plug from the harness. Remove the 7-pin plug from the bumper by pushing inward on the two metal spring-tabs on the backside of the plug and put aside for installation into the Alumilite bumper. Move all wiring out of the way to prevent damage during bumper removal/installation.
2. Remove the plastic top cover panels from the bumper to gain access to the upper mounting bolts. Using a trim tab removal tool, starting with the outer two corner pieces pry up gently to release the tabs, it is helpful to have a second person from underneath the truck squeeze the retaining tab ends together while you are lifting up on the panels. Remove all three panels and put aside. Next remove the urethane bumper corners pieces by removing the plastic nut tabs and metal spring clips on the underside of the bumper.
3. Next unplug and unbolt the cross traffic sensors and backup sensors (if equipped) from the bumper (Note which side you remove them from). Remove the remaining bumper shell by removing the 8mm mounting bolts attaching the two outer panels. Once loose slide rearward away from the body and off of the frame. Remove the drop step support bracket and the two top L-brackets attached to the inside of the frame by removing the 10mm hex head nuts.

Installation:

1. Lay out the bumper and hardware pack, check that the hardware is complete and matches the bill of materials.
2. Before installing the new Alumilite rear bumper it is recommended that you cover the corners of the bed with blue painter's masking tape or equivalent to prevent possibly scratching the painted bed surface during installation.
3. You will need to first install the factory 7-pin trailer plug into the space provided in the Alumilite bumper, make sure it snaps firmly into place.
4. Next, install the license plate with the provided LED license plate lights.
5. You are now ready to install the new Alumilite bumper onto the vehicle. With help lift the bumper and align it with the frame from side to side with the bed of the truck, slide it in and onto the frame being careful not to make contact with the bed. Align the upper hole locations with those in the factory frame and receiver hitch. Utilizing four of the supplied 8mm-1.25 x 30mm allen-head bolts, lock washers and flat washers attach through the bolt access holes in the bumper to the frame, leave loose (You may reuse the factory bolts if you so choose).
6. With the remaining two allen-head bolts, lock washers, flat washers and hex head nuts, attach the lower two bolt locations to the frame, leave loose. Align the bumper with the bed of the truck from side to side, when you are satisfied with the fit, begin tightening all the mounting hardware. There are (2) 2mm thick spacers that can be used between the bumper and these lower mounts if needed.
7. Once the bumper has been properly aligned and the hardware torqued, install the four 1 1/8" black plastic domed plugs into the bolt access holes in the top side of the bumper. Using the supplied connectors, splice into the factory plate light wiring and connect the LED plate lights.
8. If equipped, install factory backup sensors into the cutouts provided in the Alumilite Bumper, reconnect wiring harness. Next, using the provided 6mm hardware, mount the cross traffic sensors into the bumper and reconnect the wiring harness. Replace the metal cover panels with the provided plastic, adhesive backed filler panels. Clean the surface with alcohol before sticking on the panels. Some adjustment may be necessary of the cross traffic sensors after installation. In some cases placing a small shim/washer between the sensor and the mounting bracket to position the sensor closer to the outer edge of the bumper may be necessary. The cross traffic sensors have a broad viewing angle so some fine tuning and repositioning will help ensure proper operation.
9. Reconnect the 7-pin trailer plug, it may be necessary to loosen and move the spare tire slightly to gain clearance for the plug as well as the wire loom where it attaches to the frame, this will allow you to gain needed wiring length.

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