ICON Vehicle Dynamics 56106 Installation Instructions

Lower Control Arm Skid Plate Kit for Toyota 4Runner & FJ Cruiser

Part number: 56106

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Scan for fitment, price and install help

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56106 INSTALLATION INSTRUCTIONS

11-06-2017 REV.B

PART #	DESCRIPTION
56106	10-UP FJ/4RUNNER LCA SKID PLATE KIT

COMPONENTS INCLUDED

(1) 154025 LCA SKID PLATE 4RNR/FJ (DRVR) (1) 154026 LCA SKID PLATE 4RNR/FJ (PASS)	(1) 56106H 10+ S2 SKID PLATE HARDWARE KIT

HARDWARE INCLUDED

56106H HARDWARE KIT

(4) 150109 WASHER 1.25 X .395 X .125 (2) 157020 3/8-16 STEP NUT (4) 605122 3/8-16 C-LOCK (4) 605133 3/8 FLAT WASHER	(2) 605154 3/8-16 X 3.5 CARRIAGE BOLT (2) 605156 3/8-16 X 3.75 CARRIAGE BOLT (2) 605158 3/8-16 X 2.75 CARRIAGE BOLT (1) 605969 RED THREAD LOCKER

TOOLS REQUIRED

JACK JACK STANDS DRILL 1/2" DRILL BIT	9/16" SOCKET / WRENCH 7/8" SOCKET / WRENCH TORQUE WRENCH

TECH NOTES

1. 56106 KITS PACKAGED PRIOR TO 10/2017 DO NOT INCLUDE THE LOW PROFILE STEP NUT FOR LARGER CV BOOTS. TAKE EXTRA CARE TO SAND THE HARDWARE FOR CLEARANCE ON CV BOOTS OR ELSE DAMAGE WILL OCCUR. CALL ICON AT (951) 689-4266 IF YOU HAVE ANY QUESTIONS.

2. (56106) DOES NOT FIT VEHICLES EQUIPPED WITH KDSS.

3. CYCLE STEERING LEFT TO RIGHT AND MAKE SURE THE BRAKE LINE AND BRAKE CALIPER CLEAR AT BOTH EXTREMES. DURING DEVELOPMENT ICON FOUND THAT THE FACTORY STEERING RACK WAS THE STEERING'S LIMITING FACTOR AND NOT THE STEERING STOPS ON THE KNUCKLES. IF YOUR VEHICLE IS NOT STOPPING WHEN TURNED TO EITHER EXTREME LEFT OR RIGHT ON THE KNUCKLES, OR YOU HAVE CLEARANCE ISSUES AT MAXIMUM STEERING ANGLE WITH THE CALIPER OR BRAKE LINE, DO NOT INSTALL THIS SYSTEM WITHOUT THE STEERING STOPS THAT COME WITH THE 56102 S2 HOOP. WELD ON STEERING STOP PART NUMBER: (159008).



WARNING!

*** READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!*

*** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.*

*** ICON VEHICLE DYNAMICS RECOMMENDS ALL INSTALLATION TO BE PERFORMED BY A PROFESSIONAL SHOP/SERVICE TECHNICIAN. PRODUCT FAILURE CAUSED BY IMPROPER INSTALLATION WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.*

INSTALLATION

1. Using a properly rated jack, raise the front of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the front wheels.

2. Locate 3 holes on bottom side of lower control arm. Drill hole closest to wheel to 1/2" diameter. **[FIGURE 1]**

FIG.1



3. Use paint to touch up any exposed metal from drilling to avoid corrosion.

4. Attach skid plate to lower control arm and insert carriage bolts loosely. Insert the shortest (605158) carriage bolt in the hole near the ball joint. Insert the (605154) carriage bolt in the hole at the front of vehicle. The remaining (605156) carriage bolt goes in the hole towards the rear of vehicle.

5. The large washers (150109) go on top of arms first at the two inner bolts. The two inner bolts use a 3/8" flat washer (605133) and metal locking nut (605122). The outer hole closest to the tire uses the custom stepped nut (157020) and a 7/8" wrench to fasten. Use red thread locker. [Torque to 26 ft-lbs] ICON recommends tightening the outer bolt with the vehicle at ride height or with the control arm off of the vehicle, as the CV boot limits room for the large wrench.

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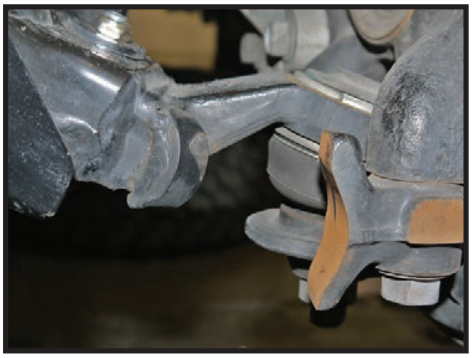
6. Depending on the extended shock length and the CV boot used (Toyota CV boots vary in diameter based on year and platform), sanding will be required on outer bolt threads for CV boot clearance at full droop. Failure to sand bolt if required will lead to CV boot damage.

7. Repeat steps 2-6 on opposite side.

8. Remove jack stands and lower vehicle back to the ground.

9. Cycle steering left to right and make sure the brake line and caliper clear the skid plate at both extremes. During development ICON found that the factory steering rack was the steering limiter and not the steering stops on the knuckles. If your vehicle is not stopping when turned to either extreme left or right on the knuckles or you have clearance issues at max steer angle with caliper or brake line interference, call ICON to purchase weld on stops (159008). **[FIGURE 2]**

FIG.2



VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.



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ICON VEHICLE DYNAMICS LIMITED LIFETIME WARRANTY

ICON Vehicle Dynamics warrants to the original retail purchaser who owns the vehicle on which the product was originally installed. ICON Vehicle Dynamics does not warrant the product for finish, alterations, modifications and/or installation contrary to ICON Vehicle Dynamics instructions. ICON Vehicle Dynamics products are not designed, nor are they intended to be installed on vehicles used in race applications, for racing purposes or for similar activities. (A "race" is defined as any contest between two or more vehicles, or a contest of one or more vehicles against the clock, whether or not such contest is for a prize). This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warranty are sales outside of the United States of America and Canada.

ICON Vehicle Dynamics' obligation under this warranty is limited to the repair or replacement, at ICON Vehicle Dynamics' discretion, of the defective product. Any and all costs of removal, installation or re-installation, freight charges and incidental or consequential damages are expressly excluded from this warranty. Items that are subject to wear are not considered defective when worn and are not covered.

ICON Vehicle Dynamics components must be installed as a complete kit as shown in our current application guide. Any substitutions or exemptions of required components will immediately void the warranty. Some finish damage may happen to parts during shipping and is not covered under warranty.

This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been improperly installed, modified or customized subject to accident, negligence, abuse or misuse.

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