

# PT# 86612

### Secondary Shock Hoop: Standard Series Stock Length Lowers: 2005-2018 Tacoma 2003-2018 4Runner | 2003-2018 Lexus GX 460/470 | 2007-2014 FJ

## Must Have TC Standard Series LCA's & 1.25" Wheel Spacers Installed

Factory Toyota vehicle manual is recommended for removal and re-installation of all factory components.

Place vehicle securely on jack stands. Make sure the front wheels are not contacting the ground. Chock both rear wheels of the vehicle to secure it from rolling back. Remove the front wheels and tires.

#### Before you start disassembly:

Make sure the vehicle is secure and ready to work on, and the vehicle suspension should be at max extension. Disconnect the negative (-) battery terminal at the battery to prevent electrical damage while welding.

- 1. Unscrew the factory rubber bump stop from the frame and set it aside. It will be reused later during reassembly.
- Using the supplied bump stop re-location bracket as a guide, trace along the stock bump stop mount. Using
  a disc cutter or Sawzall, cut the bump stop bracket on your marked lines. Sand the edges and burrs clean.
  Mount the brake line relocation bracket in the stock hole and flex the brake line over and bolt it to the
  relocation bracket.





**NOTE: 2005+ Tacoma, 2003-2009 4Runner, 2007-2009 FJ** The bump stop re-location bracket can be bolted on using the supplied hardware.

2010+ FJ and 4Runner models are required to be on due to a redesign in the frame from Toyota.

3. Locate the TC bump stop adapter into place and install bottom bolt (7/16 x 1¼) into the factory hole. Do not fully tighten it yet. Line up the 2nd factory hole with the (7/16 x 1¾). On FJ or 4Runner insert the TC spacer supplied between the bracket and the frame. This spacer will not be used on Tacoma models. Once both bolts have been installed tighten them snug.



4. Drill the 7/16 hole through the front of the bracket and install the  $(7/16 \times 1\%)$  bolt & hardware.





**2010+ Models:** Require fully welding the bump stop re-location bracket to the frame.

5. Spray paint the bracket. Then screw the stock rubber bump stop into the TC bracket and tighten. Repeat all these steps on the other side of the vehicle.



6. Bolt the TC lower shock mount clevis into the hole located on TC lower control arm PT#86500. Line the lower shock mount tabs parallel to the tabs on the coil over bolt. Tighten the nut.



7. Remove the three bolts that hold the shock to the coil bucket. Then install the supplied 3/8" x 1" bolt (or nuts if the shock you're using has studs), and then bolt the new hoop to the coil bucket.



8. Mark on the side of the frame where the frame overlay plate and hoop boss will be welded. Then remove the hoop and remove the paint from the area where the overlay plate will be welded.







9. Re-install the hoop and place the overlay plate on the frame then tack it in place. Next fit the hoop boss onto the diamond plate making sure there are no gaps and tack the boss to the frame (or to the hoop, whatever you desire).



10. With the hoop still on the car bolt the shock in place. Now is the time to cycle the shock to make sure the shock you are using is the correct length. This is also the time to tack on the reservoir tabs onto the hoop if you do not have a piggyback reservoir.



- 11. Now that everything is tacked in place, remove the hoop and fully weld the shock tabs, reservoir tabs, and frame/hoop boss.
- 12. Once the hoop is welded let it cool off the vehicle, tape off and do not paint where it will weld to the frame, then paint the rest of the hoop.





13. Then reinstall the hoop and weld it to the hoop boss (or boss to the frame depending on how you did it)



14. With everything welded, paint the area that was previously covered. Then reinstall the shocks making sure all the hardware is tight.



**NOTE:** Depending on wheel/tire combination you may experience some contact between the tire and the secondary shock and/or reservoir, even when running a wheel spacer. Due to the limited amount of room to work with and the huge variety of rim/tire combination available this may be inevitable. Inspect your vehicle after installation to ensure that contact only results in cosmetic damage.

#### Parts List: 86612

Part Number	Description	Quantity
10512	Bolt, 7/16"-20 x 1.25" Grade 8	4
10517	Bolt, 7/16"-20 x 1.75" Grade 8	2
12504	Washer, 7/16" SAE	12
11501	Nut, 7/16"-20 Nylock	6
10825	Bolt, Flange Head, 8mm-1.25 x 25mm Long	2
11081	Nut, 8mm-1.25 Flange Head Nut	2
30014	Clevis, Stock Width Secondary Shock	2
10015	Bolt, 1/2"-20 x 1.50" Grade 8	2
12004	Washer, 1/2" SAE	2
10025	Bolt, 1/2"-20 x 2.50" Grade 8	2
12003	Washer, 1/2" AN	4
11001	Nut, 1/2"-20 Nylock	4
58663	Brakeline Re-location Bracket	2
58662L	Bumpstop Re-location Bracket, Left	1
58662R	Bumpstop Re-location Bracket, Right	1
10710	3/8"-16 x 1" Grade 8 bolt	6
12011	3/8" SAE Washer	6
TC-180	Frame Overlay Plate	2
59564	Hoop Boss	2
59204	Reservoir Tabs	4
10025	1/2"-20 x 2.5" Grade 8 Bolt	2
10023	1/2" AN Washer	4
11001	1/2"-20 Nylock	2
58661-R	Secondary Shock Hoop -Right	1
58661-L	Secondary Shock Hoop -Left	1