



NOTE: The latest version of the installation manual is on our website. Please download it and check its release date against the date of this manual (highlighted in yellow on top of page). Follow the instructions of the latest release date. Link to manual - <https://spikerengineering.com/installation>

Thank you for purchasing the Spiker Engineering Ultragaug/Scangaug Mounting Bracket. Please follow this manual carefully to ensure a quality installation and many years of reliable service..

If you have any questions or concerns at any point of the installation process, please contact us at service@spikerengineering.com before proceeding.

Quick Start Guide

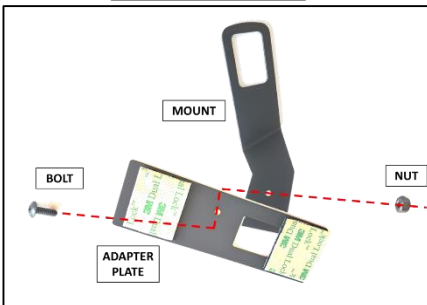
To get you started, below is an overview of the steps involved in installation. The details of these steps are provided in the sections to follow. The typical installation should take less than 30 minutes.

Installation Overview:

- A. Preparation
- B. Remove the A-pillar handle screw
- C. Install the mounting bracket
- D. Route the cable
- E. Enjoy a beverage of your choice to celebrate!

The figures below provide an overall view of the components involved in the installation, please refer to them as you go through the steps in the following sections.

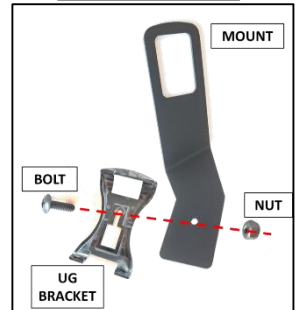
Scangaug II Kit



Scangaug III Kit



Ultragaug Kit



A. Preparation

Check kit contents:

- (1) Mounting Bracket
- (1) Replacement M6 x 1.0 A-pillar handle screw
- (1) 4-40 Bolt and locknut
- (1) Adapter plate & IPA wipe (Scangauge II kit only)
- (1) Window Sticker

Required tools:

- Standard mechanics tool set
- Drill and 1/8" bit (Ultragaugue only)

B. Remove A-Pillar Handle Screw

1. Pry off the lower screw cover with a small flat blade screwdriver (Fig 1).

2. Now you can remove the M6 screw (Fig 2). The screw was factory installed with Loctite on the threads, so if you have not removed this screw in the past, it may take some effort to remove it (see below). Push down hard on the screw head as you are loosening it, to avoid camout and stripping.

WARNING: The screw is made of soft material, and it is very easy to strip the Phillips head, at which point you'll have to drill it out. Timmy the Toolman has a great video on removing the handle screw, starting at the 5:20 mark:

https://www.youtube.com/watch?v=fT_2szdKXRM&feature=youtu.be

3. To avoid stripping the screw head, use a cordless impact driver with a No. 2 JIS (not Philips) bit, such as the [Motion Pro JIS Crosshead Hex Drive Bit \(No. 2\)](#) or the [Makita Impact Bit](#) (see below). Another highly effective tool is a pair of Engineer PZ-58 pliers, with special vertical serrations to remove a stripped screw (available at Amazon), shown below at far right:



If you do strip a screw and have to drill it out, a replacement screw is included in the kit. Or you can use the OEM Toyota screw P/N 90159-60254, or any M6-1.0 x 25mm screw, like these - <https://www.amazon.com/25-M6-Flange-Small-Class/dp/B00N05XRMA>

C. Install the Mounting Bracket

Pull the lower part of the handle away from the A-pillar, and slip the mounting bracket over the handle's mounting post. Note that the handle post is usually "mushroomed", so you may have to rock the bracket back and forth to slip it over the mushroomed portion (Fig 4).

Once the bracket is installed over the handle, place the mounting post of the handle back into the A-pillar, and reinstall the M6 screw (we recommend using the supplied high strength screw for easier future removals if necessary):



For **Ultragaugue** kit, skip to step 8. For **Scangauge II** Kit, proceed to step 4. For **Scangauge III** kit, place the Scangauge III on the magnet and proceed to Step 13.

SCANGAUGE II KIT

4. Place the adapter plate in front of the mounting bracket, and line up the holes, making sure that the cutout in the adapter plate is on the right, as shown in Fig 4. Secure the two brackets together with the 4-40 bolt and nut provided. Don't fully tighten the nut at this point, to allow adjustments.



5. Sit in the driver's seat, and adjust the tilt angle of the adapter plate to your liking, by rotating the adapter relative to the mounting bracket (Fig 5). Once you're satisfied with the tilt angle, tighten the locknut and the bolt (hint – tighten the locknut just enough to be snug, to allow tilt adjustments later. The locknut will prevent loosening of the bolt.)

6. Clean the back of the Scangauge with the supplied IPA wipe. Remove the liner from the Dual Lock strips on the adapter plate, and adhere the Scangauge to the Dual Lock strips, being careful to line up the Scangauge and the adapter plate (Fig 6). Press the Scangauge against the Dual Lock strips on the adapter plate firmly to engage the adhesive, and hold tight for about 30 seconds.



7. Proceed to Step 13.

ULTRAGAUGE KIT

8. The preferred Ultragaugage mounting method is to use the bracket supplied with each Ultragaugage, although Dual Lock mounting is also an option. If you do not have the Ultragaugage bracket, you can contact Ultragaugage for a replacement, or purchase one from them (https://ultragaugage.com/ZC/index.php?main_page=product_info&cPath=3&products_id=3&zenid=5b09839df23427d09f02c0ca83ce4077) or use a Dual Lock strip (available from us free of charge).

9. Prepare the bracket by drilling an 1/8" hole near the top of the slot, as shown in the red circle in Fig 7.



10. Place the Ultragaugage bracket against the mounting bracket, and line up the holes. Secure the two brackets together with the 4-40 bolt and nut provided (Fig 8). Don't fully tighten the nut at this point, to allow adjustments.



11. Snap the Ultragaugage into the bracket (Fig 9).

12. Sit in the driver's seat, and adjust the clocking angle of the Ultragaugage to your liking, by rotating the Ultragaugage bracket relative to the mounting bracket (Fig 9). Once you're satisfied with the clocking angle, remove the Ultragaugage and tighten the locknut and the bolt (hint – tighten the locknut just enough to be snug, to allow future tilt adjustments. The locknut will prevent loosening of the bolt.). Reinstall the Ultragaugage in the bracket, and reinstall the handle screw cover.



D. Route the Cable

13. Route the Ultragaugage cable along the A-pillar, behind the lower kick panel, and to the OBDII port. Leave a small loop near the Ultragaugage, then route the cable along the A-pillar and to the left of the dash. You can also tuck the cable between the A-pillar and the door weatherstrip.

Once the cable is below the left part of the dash, remove the lower kick panel by removing the four M6 screws (10mm head). Route the cable underneath the dash, keeping it high enough to avoid interference with pedals. You can zip-tie the cable to other wire bundles under the dash.

Connect the cable to the OBDII port on the right side, by the gas pedal. Zip tie or tuck away any excess portion of the cable, to ensure no interference with pedals. Reinstall the kick panel.

Final Notes

If you have any questions or issues during installation, please email us at service@spikerengineering.com.

If you ever want to mount an additional 2-1/16" gauge to monitor a function not provided by the Ultragaugage or Scangaugage, you can use one of our add-on gauge holders to conveniently attach to the mounting bracket, as shown below. These are available at <https://spikerengineering.com/product/gauge-holder>.



Finally, please post a product review at our webpage –

<https://spikerengineering.com/product/scangauge-mount#reviews>
<https://spikerengineering.com/product/ultragaugage-mount#reviews>

Thank you again for purchasing this mount, we hope you enjoy it for many years to come!