

DARKMATTERX

Subaru Precision Shift Arm Installation Guide



Preparation and Safety

Before doing any work on the vehicle, ensure that the vehicle is safely secured onto a lift or jack-stands with all safety pins or latches in place to prevent a serious injury from taking place. The vehicle needs to be high enough off the ground to crawl or stand under. When working under the vehicle, always wear eye protection to prevent foreign debris from getting into your eyes. Having a light under the vehicle is a must, and will make the install process much smoother! If you can, having an extra set of hands will speed up the process.

Disclaimer

This install guide shows some images and steps with a 2004 Subaru STI. The Subaru Precision Shift Arm's fit all Subaru STI's, all pre 2015 Subaru WRX's, and many other models. Some of the interior removal steps in this guide may differ from model to model but are widely similar in nature. Mounting the Subaru Precision Shift Arm in the vehicle is done in the same manner as this guide.

Technical Support

Technical support is available for you in the event that you need it! Please read through the manual before reaching out with a question. You can reach us at support@darkmatterx.com

Subaru Precision Shift Arm Kit Contents

Before starting the install procedure, locate all the components in the kit by removing the Subaru Precision Shift Arm and the supplied hardware bag.

1.) Subaru Precision Shift Arm



2.) Hardware:

- a. (1) Rubber u-joint boot
- b. (2) Stainless Steel Hose Clamps



Recommended Tools

The following is a list of our recommended tools for the install:

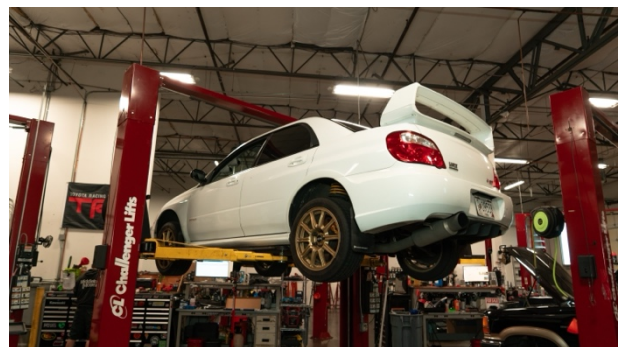
- 1.) 3/8" Drive Wrench
 - a. 13mm Socket
- 2.) 12mm Box Wrench
- 3.) 14mm Box Wrench
- 4.) Flathead Screw Driver
- 5.) Hammer
- 6.) 8mm Punch



1.) PUT THE VEHICLE IN A SAFE POSITION

Put the vehicle in a safe position so that you can access the underside of the shifter and transmission.

*Tip: Putting the transmission in reverse or 6th gear can help with the removal of the factory shift arm



2.) REMOVE THE FACTORY SHIFT ARM

Start on the inside of the vehicle by removing the shift boot and center console trim that surrounds the shifter.



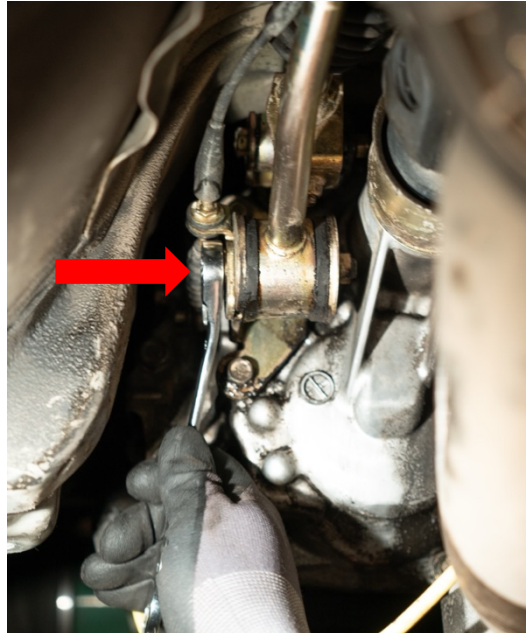
The center console trim components have clips going around their perimeters. Working your way around the trim, pull straight up and the clips will release from the center console assembly.



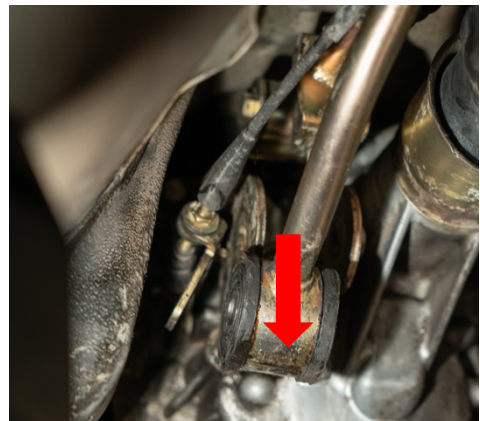
Remove the single bolt and nut connecting the shift arm to the shifter.



Remove the bolt securing the front of the shifter stay to the transmission



When the bolt has been removed, drop the shifter stay out from its bracket.



Remove the (3) bolts holding the shifter stay bracket to the transmission, this will provide additional room to access the roll pin connecting the shift arm to the transmission.



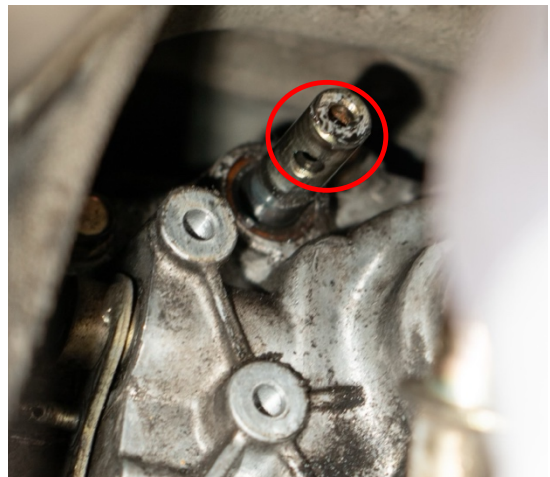
Place the punch directly over the roll pin and drive it out completely by tapping a hammer on the punch. If the roll pin is having a hard time coming loose, try soaking it in penetrating oil. This can help break it free easier.



Once the roll pin has been removed, set it to the side as it will be re-installed back onto the vehicle.



Slide the shift arm off of the pictured transmission shaft.



The shift arm is now free to be removed from the vehicle, slide it out of the rubber shifter boot. If the boot is having difficulties expanding over the shift arm, use a flat head screw driver to work the boot over the arm.



3.) INSTALL THE SUBARU PRECISION SHIFT ARM

Feed the Subaru Precision Shift Arm through the rubber shifter boot so that the u-joint is exposed underneath of the vehicle. Place the supplied rubber boot, and two hose clamps onto the u-joint with a flat head screw driver.

Ensure that the rubber u-joint boot overlaps the coated surface of the u-joint so that no bare metal is exposed and secure the hose clamps.



Slide the new shift arm onto the transmission shaft and install the roll pin back through the shift arm and the shaft. Make sure to align the holes in the shaft and the new shift arm when installing the roll pin.



This is an example of what the roll pin should look like when it has been installed into the new shift arm and transmission shaft.

Bolt the shifter stay bracket back onto the transmission, and put the shifter stay back into the bracket by securing it with the same bolt.



Install the new shift arm onto the shifter by using the same hardware that was used here.

Put the vehicles interior shifter trim pieces back in place by snapping the clips back into place.



This completes the install for the Subaru Precision Shift Arm. Before driving the vehicle, it is a good idea to double check that all of the steps have been completed and all bolts are properly secured back into place. Check that the shifter goes into all gears before driving the vehicle.