

# ASV INVENTIONS BVC581 BRAKE LEVER INSTALL GUIDE v.051026

## BEFORE INSTALLATION

**WARNING!** ASV Inventions highly recommends that this product be installed by qualified motorcycle technician and that the lever is properly tested before riding. ASV Inventions INC. accepts no liability for failures or malfunctions due to improper installation or lack of proper testing. Install at your own risk!

**WARNING!** Some stock brake levers have a slight amount of pre-load when installed. If the ASV lever applies more pre-load than the stock lever, DO NOT INSTALL. Contact ASV support to ensure you have the correct brake lever.

After installation, ensure that the ASV lever does not interfere with any other components such as fairings, switches, mirror mounts, or handguards



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## BVC581 Brake Lever



## TOOLS NEEDED

Tools Needed  
T25 Hex  
T27 Hex  
Brake Insert Tool  
C-Clip Pliers  
1/2 Wrench  
9/16 Wrench



## FITMENT

This brake lever is designed to fit the stock brake master cylinder on the following motorcycles. Please confirm before attempting installation.

| HARLEY-DAVIDSON           | YEAR      |
|---------------------------|-----------|
| CVO Dyna                  | 2007-2008 |
| CVO Dyna Fat Bob          | 2009-2010 |
| Dyna Convertible          | 1996-2000 |
| Dyna Fat Bob              | 2008-2017 |
| Dyna Low Rider            | 1996-2017 |
| Dyna Street Bob           | 2006-2017 |
| Dyna Switchback           | 2012-2014 |
| Dyna Super Glide          | 1996-2010 |
| Dyna Super Glide Custom   | 2005-2014 |
| Dyna Super Glide Sport    | 1999-2005 |
| Dyna Super Glide T-Sport  | 2001-2003 |
| Dyna Wide Glide           | 1996-2017 |
| CVO Softail Convertible   | 2010-2012 |
| CVO Softail Fat Boy       | 2005-2006 |
| CVO Softail Springer      | 2007-2009 |
| Softail Blackline         | 2011-2013 |
| Softail Breakout          | 2013-2014 |
| Softail Cross Bones       | 2008-2011 |
| Softail Custom            | 1996-2010 |
| Softail Deluxe            | 2005-2015 |
| Softail Deuce             | 2000-2007 |
| Softail Fat Boy           | 1996-2014 |
| Softail Fat Boy Lo        | 2010-2014 |
| Softail Heritage Classic  | 1996-2014 |
| Softail Heritage Springer | 1997-2003 |
| Softail Night Train       | 1999-2009 |

## FITMENT (continued)

|                               |           |
|-------------------------------|-----------|
| Softail Rocker                | 2008-2009 |
| Softail Rocker C              | 2008-2011 |
| Softail Slim                  | 2012-2014 |
| Softail Springer              | 1996-2006 |
| Softail Springer Classic      | 2005-2007 |
| Softail Standard              | 1999-2007 |
| CVO Road King                 | 2003-2007 |
| Road King                     | 1996-2007 |
| Road King Classic             | 1996-2007 |
| Road King Custom              | 2004-2007 |
| Street Glide                  | 2006-2007 |
| Road Glide                    | 1998-2007 |
| Electra Glide Classic         | 1996-2007 |
| Electra Glide Standard        | 1996-2007 |
| Ultra Classic (Electra Glide) | 1996-2007 |
| Freewheeler                   | 2015-2018 |
| Tri Glide Ultra Classic       | 2014-2016 |
| Tri Glide Ultra               | 2017-2018 |

## VIDEO INSTALL

[CLICK OR SCAN FOR VIDEO INSTALL](#)



### 1: Loosen the throttle housing

Use a T25 Hex driver to loosen the throttle housing.

1



### 2: Loosen the master cylinder

Use a T27 Hex driver to loosen the master cylinder mount.

2



### 3: Remove the c-clip retainer

Use the c-clip pliers to remove the c-clip that holds the brake lever pin. Be careful as the clip is fragile and you will need to use this clip again.

3



### 4: Remove the brake lever pivot pin

Push the pin upward and out of the brake master cylinder housing. It should come out smoothly, but if it's stuck, you may need to punch it out with a tool.

4



### 5: Remove the old lever

Gently remove the old lever. The brake light switch is located opposite the brake master cylinder piston and can be damaged if the lever is forcefully removed.

5



### 6: Insert the ASV lever

Gently insert the ASV lever. The brake light switch is located opposite the brake master cylinder piston and can be damaged if the lever is improperly installed.

**WARNING!** The ASV lever should be pushed into the master cylinder with the same amount of force as the stock lever. If the ASV lever is harder to install than stock, review the troubleshooting section of this guide.



### 7: Insert the brake lever pin

Insert the brake lever pin

7



### 8: Install the c-clip onto the brake lever pin

Install the stock c-clip onto the brake lever pin

8



### 9: Important! Pre-load the brake lever BEFORE RE-ASSEMBLY!

**Important!** This step prevents damage to the brake light switch.

Use a piece of cardboard or rubber and insert it between the brake lever and the brake master cylinder so that the brake lever is partially engaged before re-assembly



### 10: Re-assemble the housings and throttle box

Tighten up the switch housing and the brake master cylinder mount to spec. Do not overtighten

10



### 11: Remove the brake pre-load tool

**Warning!**

Failure to follow this step could cause brake lockup!

Remove the brake pre-load tool before riding.

11



### 12: Test the brake light switch

Pull the brake lever multiple times and check that the brake lights are flashing to ensure full function

12



### 13: Adjust lever to your preference

Roll the dial upward to push the lever away.  
Roll the dial downward to pull the lever closer.

# 13



## 5: SETUP & TESTING

**5a)** Test the brake lights by pulling on your ASV brake lever. With each pull, there should be a “clicking” sound from the lever and a flash from your brake lights. Make sure the bike’s headlights are on

**5b)** Test the brake system by moving the bike forward and back slowly while engaging the ASV brake lever. The bike should stop firmly when the ASV lever is pulled and should move freely when released.

**5c)** Adjust your lever reach using the reach adjust dials. Roll upward for further and roll downward for closer.

**WARNING!** Be sure to test your settings at slow speeds before riding normally. ASV levers have much greater reach adjust than stock and can cause issues if they are adjusted too closely to the handlebar.

## 6: COMPLETE

**Congratulations!** Enjoy your freshly ASV equipped motorcycle!  
If you have any questions, please refer to our troubleshoot guide (below).

**Don't forget to register your warranty!**

<https://asvinventions.com/support/>

## TROUBLESHOOTING

### ASV lever does not fit into the master cylinder.

- Check that the master cylinder on your bike is the same as OEM. On older bikes, it may have been modified or changed.
- Check that the correct lever pivot bolt is being used. The clutch or brake pivot bolt may have been switched during installation.
- On the ASV lever, check that the pivot bushing is properly seated inside the lever.
- Check that the correct brake light tabs are installed on the ASV lever.
- If the ASV brake lever came with an ASV clutch lever, check that you are installing the ASV brake lever.

**Brake lights do not “click” or flash when ASV lever is pulled.**

- Check that the correct brake light tab on the ASV lever is properly installed on the ASV lever.

**Front brake does not work when ASV lever is pulled.**

- Check that the lever is not adjusted too closely to the handlebars.
- Check that the lever is properly seated and is engaging the master cylinder push rod.
- Reinstall the original lever and see if the issue persists. If so, there may be an issue with the motorcycle’s brake system.

**Lever has a lot of free play or feels loose**

- Check that the pivot bolt and the nut are securely tightened.
- Compare the stock pivot bolt with the ASV pivot opening.
- Check that the correct push rod is properly installed.
- Reinstall the original lever and take note of how much free play it has. The ASV lever should have the same amount of free play.

**ASV lever touches the control switches when pulled**

- Check that the lever is not adjusted too close to the handlebars
- The master cylinder may have shifted during installation. Loosen the master cylinder mounting bolts and adjust until it fits.
- Lever may need a perch spacer. Spacers are available at [asvinventions.com](http://asvinventions.com)

**Bike is hard to move or brakes are locking up without the lever being pulled.**

- Check that the correct push rod is properly installed in the master cylinder and that it is seated inside the ASV lever
- Check that the brake light tab is properly installed on the ASV lever.
- Reinstall the old lever and take note of any pre-load that the old lever has when the pivot bolt is being installed. If the ASV lever has more pre-load than the old lever, you may be installing the wrong ASV lever for your master cylinder.

**For more troubleshooting options and detailed install videos, visit**

[www.asvinventions.com/installation/](http://www.asvinventions.com/installation/)

**TECH SUPPORT**

**For more troubleshooting options and detailed install videos, visit**

[www.asvinventions.com/installation/](http://www.asvinventions.com/installation/)

**Need help? Contact us!**

**Hours: Monday-Friday, 9am to 5pm PST**

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