



## BRC512 / BRF312

Fitment and Installation Guide v.250113



**WARNING!** ASV Inventions highly recommends that this lever be installed by a qualified and skilled individual. ASV Inventions INC. accepts no liability for failures or malfunctions due to improper installation. Install at your own risk.

**WARNING!** If your front wheel does not move freely after the ASV lever has been installed and is NOT being pulled, **DO NOT RIDE THE MOTORCYCLE**. Refer to the troubleshooting guide below or contact ASV INVENTIONS for assistance.

This lever was designed to fit Yamaha radial brake master cylinders equipped on the following motorcycles:

YAMAHA	YEAR
MT-09 / SP	21-23
Tracer 900 / 9 / GT	22-25
YZF R1 / M	15-24
YZF R6	17-21
YZF R6/ GYTR/ RACE	22-25

### INCLUDES

1x ASV Brake Lever

### TOOLS NEEDED:

1x 10mm wrench  
1x Small Philips screwdriver  
1x Flathead screwdriver

## 1: UNINSTALL THE OEM BRAKE LEVER

1a) Use the 10mm wrench to remove the 10mm locknut on the underside of the master cylinder.



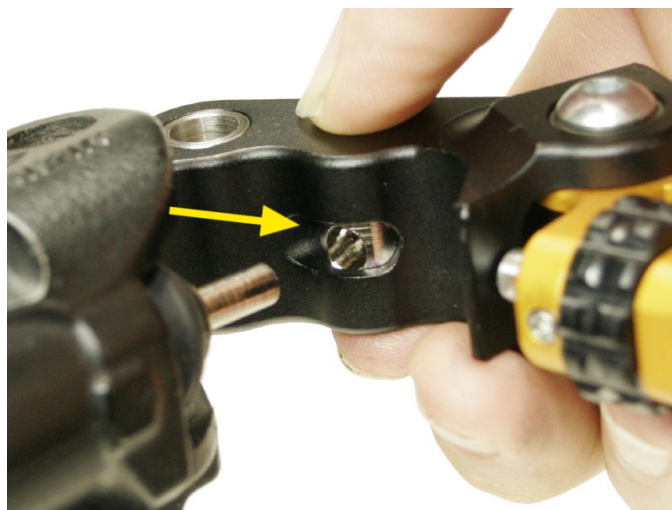
1b) Once removed, unscrew the pivot bolt and remove the lever. If the plunger rod comes out, place it back into the master cylinder.



## 2: INSTALL THE ASV LEVER

2a) Place the lever into the brake master cylinder. Make sure the OEM plunger rod slides fully into the ASV plunger barrel.

**NOTE!** The ASV lever should push into the master cylinder by the same amount or slightly less than the stock lever. If the ASV lever is much harder to install compared to stock, you may have the wrong lever.



2b) Use the flat head screwdriver to screw in the pivot bolt. Secure with the 10mm nut underneath. Do not overtighten.



#### 4: TESTING THE BRAKE LIGHTS

With the bike in neutral, turn on your bike's lights. Apply the ASV brake lever several times. With each pull, there should be a "clicking" sound from the lever and the brake lights should flash.

#### 5: TESTING THE BRAKES

With the bike in neutral, move the bike forward and back while pulling the ASV brake lever several times. With each pull, the bike should stop firmly, and with each release, the bike should move freely.

#### 6: ADJUSTING THE BRAKE LEVER REACH

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

**Congratulations!** If you have any questions, please check our FAQ guide at [www.ASVINVENTIONS.com/info](http://www.ASVINVENTIONS.com/info)

### 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 bolt is being used. The brake bolt may have been switched with the clutch bolt during installation.
- Check that the bushing on the ASV lever is fully seated in the bolt opening.

#### Brake lights stay ON all the time.

- The ASV lever has a tab on the end to activate the brake light switch. Check to see if this is installed properly and that it is activating the brake light switch.

#### Front brake does not engage when ASV lever is pulled.

- Check that the lever is not adjusted too close to the handlebars.
- Check that the push rod is properly installed. (step 2)
- Reinstall the original lever and see if the issue persists. If so, there may be an issue with the motorcycle's brake system.

#### Lever feels loose.

- Check that the lever bolt and the nut are properly tightened.
- Check that the OEM 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 or slightly greater.

#### ASV lever hits 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.
- The ASV lever may need a spacer. Spacers are available for free at [asvinventions.com](http://asvinventions.com)

#### ASV lever does not return after being pulled.

- Loosen the pivot bolt. It may have been overtightened.

#### ASV lever touches handguards

- Remove handguards. A brake lever cannot have any interference that may prevent it from fully disengaging. Any light pressure being applied over time could cause the brakes to lockup while riding, leading to serious injury or death.
- If the handguard contact is due to the protruding nuts and bolts on the sides of the ASV lever, contact ASV for low-profile pins.

#### Bike does not move freely when ASV lever is released.

- Check that the correct push rod is properly installed in the master cylinder and that it is seated inside the ASV lever (step 2)
- Check that the brake light tab is properly installed on the ASV lever.
- Reinstall the original lever and take note of how much the original lever presses on the master cylinder. If the ASV lever presses any greater on the master cylinder than the original lever, or if the brakes feel like they are engaged even when released, do not install the lever. Contact ASV for assistance. You may be installing the wrong ASV lever.

For more troubleshooting options and detailed install videos, visit [www.asvinventions.com/installation/](http://www.asvinventions.com/installation/)

#### Need help? Send us pics!

Our techs are available Monday through Friday, 9am to 5pm PST. Please provide as many photos or video of the issue so that we can offer the best assistance.

Phone: **714.861.1400**

Email: [info@asvinventions.com](mailto:info@asvinventions.com)

Register your warranty at [www.asvinventions.com/support](http://www.asvinventions.com/support)

**ASV INVENTIONS INC**  
[www.asvinventions.com](http://www.asvinventions.com)

**17811 Georgetown Ln**  
**Huntington Beach, CA92683**  
**Est. 2001**