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Installation Guide for RFTF20101 / RFTF30101

v.090825

BEFORE INSTALLATION

WARNING! ASV Inventions highly recommends that this lever 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

FOR ANY ISSUES WITH FITMENT, CONTACT ASV INVENTIONS!

RFT0101

RFT0101 Lever Adapter (Knee)



PARTS INCLUDED

1x ASV Front Brake Lever
1x ASV Rear Brake Lever
2x ASV Narrow Bolt Spacer
2x ASV Close Reach Bolt
2x ASV Far Reach Bolt

TOOLS NEEDED:

1x 10mm socket wrench
1x 5mm hex wrench
1x 4mm hex wrench

COMPATIBILITY GUIDE

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

E RIDE PRO	YEAR
Pro SS 3.0 w/ Type 1 brakes	24-25
Pro SR w/ Type 1 brakes	24-25

This guide covers installation of the rear brake lever on the left-hand side of your controls. For the right-hand side front brake, simply repeat these steps and pay special attention to any clearance issues with the right-hand side throttle housing.

1: UNINSTALL STOCK BRAKE LEVER

1a) Loosen the knurled nut on the top part of the master cylinder

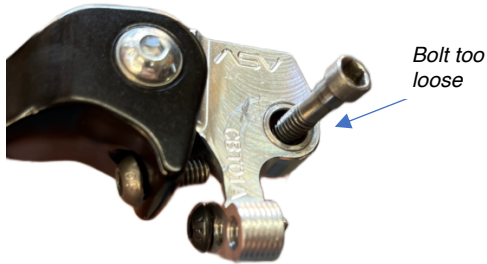


1b) Loosen the 10mm nut on the underside of the lever and the 5mm hex pivot bolt. Then, remove the lever.

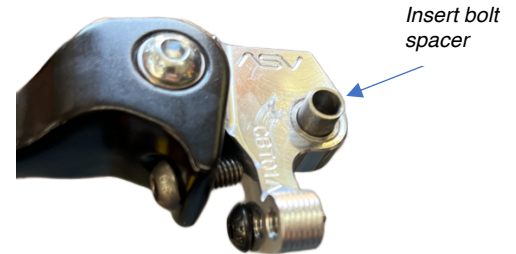


2: SETUP THE ASV LEVER

2a) Pivot Bolt Sizing: Insert the stock pivot bolt into the ASV lever. If it seems loose, insert the provided "Narrow Bolt Spacer" into the ASV lever.



2b) If the pivot bolt seems loose, insert the ASV provided "Narrow Bolt Spacer" into the ASV lever.



3: INSTALL THE ASV LEVER

3a) Align the ASV lever with push rod and insert into the master cylinder.



3b) IMPORTANT. Do not overtighten the 5mm hex bolt!

Reinstall the stock 5mm hex bolt and tighten just enough until it feels snug. Then, loosen the bolt by a quarter turn until the lever pulls freely.



3c) Pull the ASV lever to ensure that it is not binding on the bolt. Loosen the 5mm bolt as needed until the lever pulls freely. Then, tighten the 10mm nut underneath the lever.

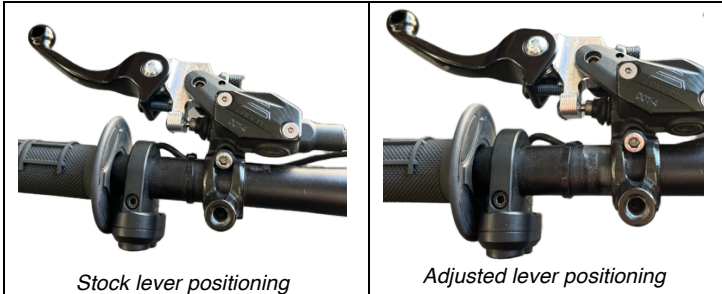


3d) Tighten the knurled nut as much as possible.



4: SETUP & TESTING

4a) 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 not pulled. Be sure to pull the lever all the way in and make sure it fully clears any controls. If it does not clear the controls, loosen the brake lever mount and adjust until the lever clears the controls.



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.

COMPLETE

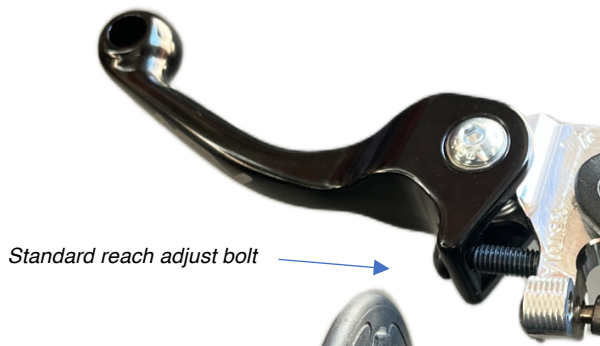
Congratulations! You've completed the install of ASV levers! If you have any questions, please refer to the troubleshoot guide at the end of this guide.

Don't forget to register your warranty!

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

Optional: Reach Adjust

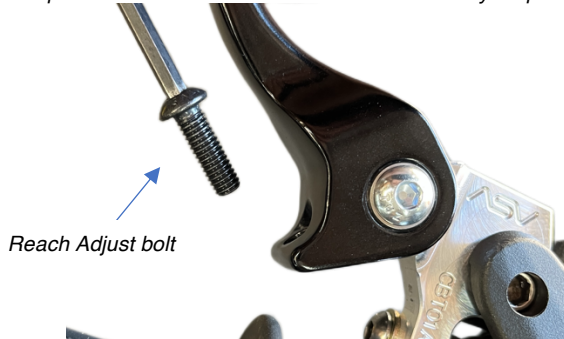
A) The ASV lever comes equipped with a standard reach adjust bolt.



To adjust the reach closer or farther, you will need to unscrew the standard bolt and replace it with one of the other bolts included in your package.

IMPORTANT! Do not adjust the lower bolt that is connected to the silver lever adapter. It is glued in place and should not be loosened.

C) To adjust the reach closer or farther, you will need to unscrew the standard bolt and replace it with one of the other bolts included in your package.



B) If you would prefer a closer or further reach, switch out the reach adjust bolt with either the "Close" or "Far" reach adjust bolts included in your package.



Close and Far reach adjust bolts

D) Tighten the bolt all the way.



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 pivot bolt is being used. The clutch or brake pivot bolt may have been switched during installation.
- On the ASV lever, check that the bushing inside the pivot opening 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 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 has a lot of free play or feels loose

- Check that the pivot bolt and the nut is securely tightened.
- Compare the stock pivot bolt with the ASV pivot opening. They should be snug.
- 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

ASV lever feels tight and does not return after being pulled.

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

ASV lever contacts handguards

- Remove the handguards. In some case, the ASV lever double pivot design is not compatible with factory handguards. If the ASV lever contacts the handguards while riding, it may cause brakes to lockup.
- If the handguard contact is due to the protruding nuts and bolts on the ASV lever, contact ASV for low-profile pins.

Front wheel 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 any pre-load that the original lever has when the pivot bolt is being installed. If the ASV lever has more pre-load than the original 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/

SUPPORT

For more support, visit www.asvinventions.com/installation/

Need help? Contact us!

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** Text Photos: **714.861.9469**

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