

## Installation Instructions for FC10 Forward Controls for the Honda Shadow Sabre 1100

It is highly recommended that you use a thread lock compound such as Loctite on all threads to keep them from vibrating loose.

Please read these instructions entirely before starting.

This picture shows the components of the FC10. Parts will be referred to by the names & numbers shown here. If you are missing anything please email [sales@refinedcycle.com](mailto:sales@refinedcycle.com).



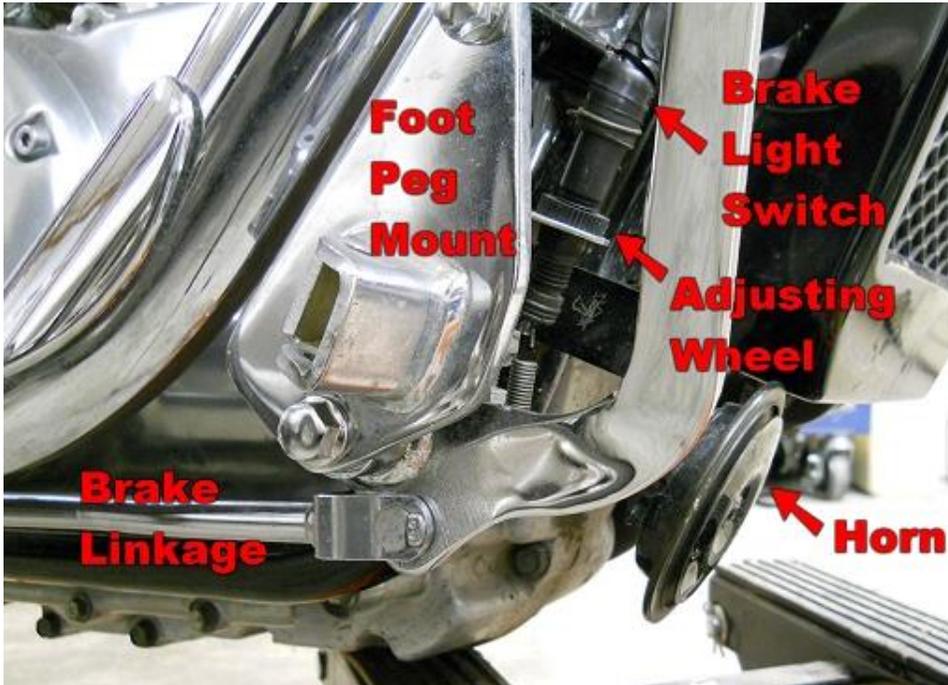
**FC10 Components**

- 1 - FC10-L
- 2 - Brake Light Switch Mount
- 3 - 1" Spacer
- 4 - 5/16" Clevis
- 5 - ARM9
- 6 - Shifter Linkage Extension
- 7 - 3/8" Washer
- 8 - 1/4" washer
- 9 - 5/16x1 Clevis Pin
- 10 - M8-1.25x30 Socket Head Bolt
- 11 - 3/8-16x2 Button Head Bolt
- 12 - Brake Linkage Extension
- 13 - 5/16x1 Cotter Pin (x2)
- 14 - FC10-R
- 15 - #8-32x5/16 Screw (x2)
- 16 - Not Used
- 17 - M6-1.0 Nut
- 18 - M8-1.25 Lock Nut
- 19 - 5/16-24 Nut (x2)

- 20 - 3/8-16 Nut
- 21- SPC031
- 22 - 5/16" Spherical Rod End

## **Brake side**

See Picture B to familiarize yourself with some of the stock components and their names.



**Picture B**

Remove the brake light switch spring from the hook on the brake pedal.

Remove the brake light switch from its mount by pulling up gently.

Remove the foot peg mount from the bike by removing the two bolts that hold it to the bike.

(The brake linkage will spring forward when you remove the foot peg mount.)

Bend or cut the cotter pin and remove the clevis pin holding the brake linkage to the brake pedal.

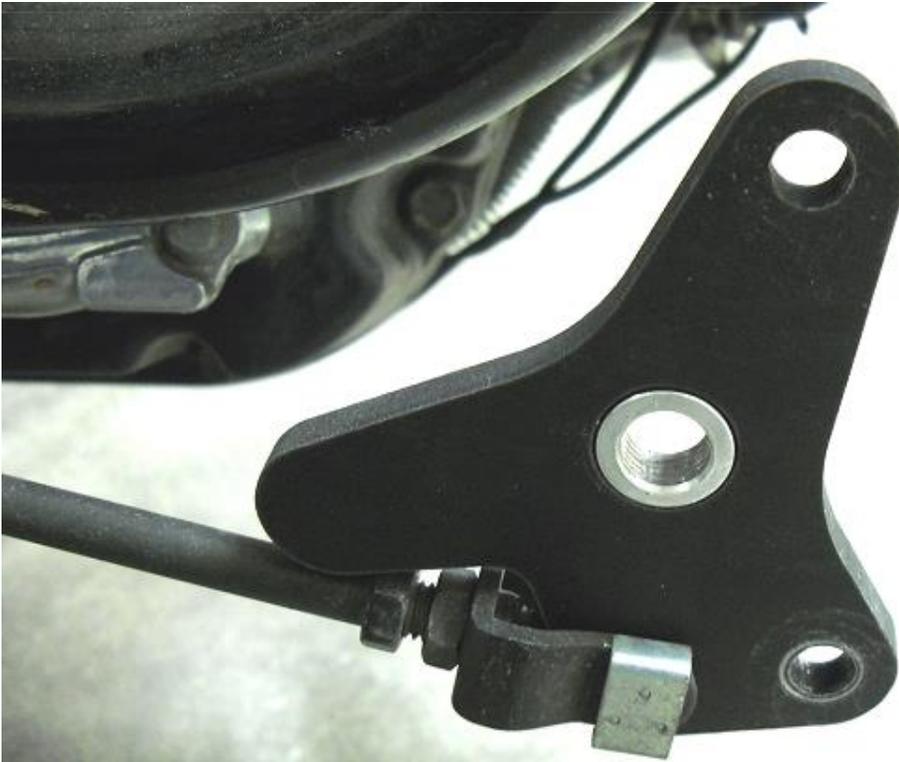
Using two #8-32x5/16 Screws (Part #15), attach the Brake Light Switch Mount, (Part #2) to the FC10-R (Part #14) as shown in Picture C.



**Picture C**

Apply some axle grease to the outside of the SPC031 (Part #21) and to the inside of the large hole in the ARM9 (part #5).

Insert the SPC031 into the ARM9 and connect it to the brake linkage with the clevis pin (previously removed) and a 5/16x1 Cotter Pin (Part #13) as shown in Picture D.



**Picture D**

Orient the FC10-R hanging down, as shown in Picture E.

Insert the long foot peg mount bolt (previously removed) into the bottom hole of the FC10-R, then into a 1" Spacer (Part #3).

If you are installing the optional PDL6 Brake and Shifter Pedal kit, slide the brake pedal return spring onto the spacer, with the hooks oriented as shown in Picture E and continue the bolt through the SPC031 (previously inserted into the ARM9) and thread it finger tight, into the frame as shown in Picture E.

If you are using the stock brake pedal, do the same as above but do **NOT** use the spring at this time.



Picture E

Rotate the FC10-R counter-clockwise to line up the top bolt hole. Note: If you installed the spring, make sure the hooks stay on the FC10-R and on the ARM9. This will put tension on the spring, which is the desired result. When the top bolt hole is lined up, attach the FC10-R with the short bolt (previously removed) and tighten the bottom and top bolts to secure the FC10-R.

Make sure the brake light switch adjustment is most of the way up as it is shown in Picture B. Insert the brake light switch into the Brake Light Switch Mount that you attached to the FC10-R.

Thread a 5/16-24 Nut (Part #19) and a 5/16" Spherical Rod End (Part #22) onto one end of the Brake Linkage Extension (Part #12). Thread a 5/16-24 Nut and a 5/16" Clevis (Part #4) onto the other end as shown in Picture F.



**Picture F**

**IF YOU ARE INSTALLING THE OPTIONAL BRAKE AND SHIFTER PEDAL UPGRADE KIT, STOP HERE AND MOVE TO THE SHIFTER SIDE.**

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Ream out the linkage hole in the brake pedal with a 5/16" Drill Bit to allow the M8 bolt to fit in. Connect the brake pedal to the back side of the FC10-R through the lower front hole, with a 3/8-16x2 Button Head Bolt (Part #11). Secure with a 3/8" Washer (Part #7) and 3/8-16 Nut (Part #20). Make sure the hooks of the brake pedal return spring are oriented as shown in Picture G. Note: Make sure the brake pedal is straight up when installing to keep the pressure off the spring. When you rotate it forward when you connect the linkage, that will create the desired tension on the spring.



**Picture G**

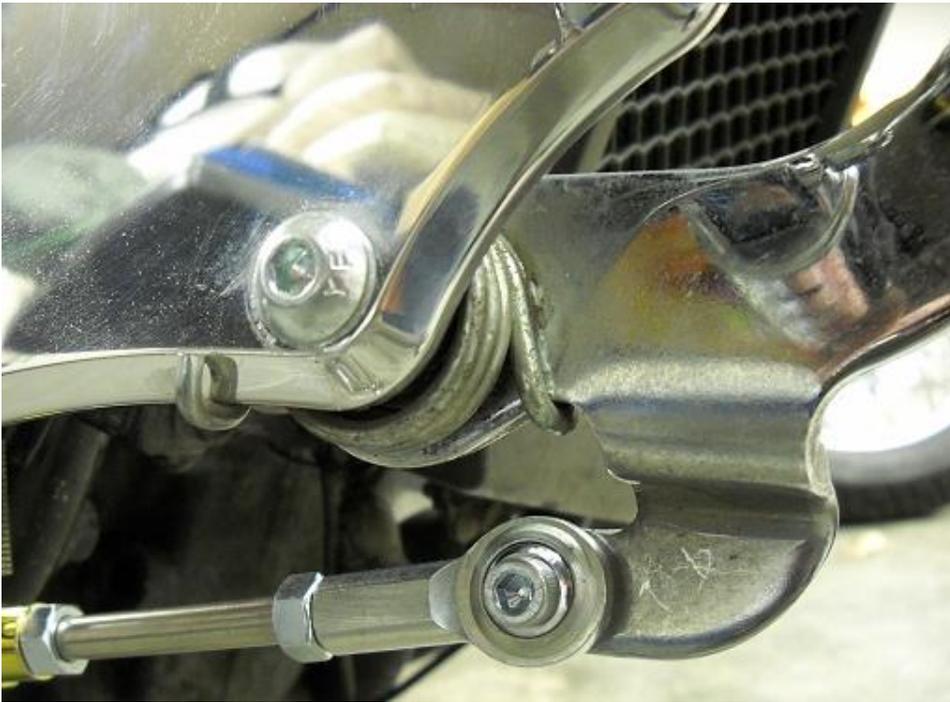
Place the lower hook of the brake light switch spring around a 5/16x1 Clevis Pin (Part #9). Note: You may have to bend the hook open a little bit so that it goes around the Clevis Pin.

Use that same Clevis Pin to connect the Clevis end of the Brake Linkage Extension to the lower front hole of the ARM9 and secure with a 1/4" Washer (Part #8) and 5/64x1 Cotter Pin as shown in Picture H.



**Picture H**

Connect the other end of the Brake Linkage Extension to the outside of the brake pedal with an M8-1.25x30 Socket Head Bolt (Part #10) and secure with an M8-1.25 Nut (part #18) as shown in Picture I.



**Picture I**

Install a foot peg in the remaining hole of the FC10-R.

The brake pedal may be adjusted by threading more or less of the Brake Linkage Extension into the Clevis and Spherical Rod End. Note: Make sure the Brake Linkage Extension is threaded far enough into the ends to provide a secure connection. When the pedal is adjusted to a comfortable position, tighten the 5/16 Nuts against the Clevis and Spherical Rod End.

The brake light switch may need to be adjusted. To test, turn your key on and observe your brake light while pressing and releasing the brake pedal a few times. If the brake light works as desired, no adjustment is necessary. If it stays on all the time, turn the adjustment nut shown in picture A to loosen the spring tension on the brake light switch. Hold the brake light switch in one hand to keep it from turning while turning the adjustment wheel. If it does not come on at all, tighten the tension on the brake light switch. With a little trial and error you will find the right position.

This completes the brake side



### **Shifter Side**

Loosen the nuts on both ends of the shifter linkage as shown in Picture J and remove the shifter linkage by turning it until it comes out of both ends.



Picture J

Remove the nut and bolt holding the shifter pedal and remove it from the foot peg mount.

Remove the foot peg mount as previously done on the other side.

Connect the FC10-L (Part #1) to the frame using the bolts previously removed.

**IF YOU ARE INSTALLING THE OPTIONAL PDL6 BRAKE AND SHIFTER PEDAL UPGRADE KIT, STOP HERE AND MOVE TO THE PDL6 INSTALLATION INSTRUCTIONS. Note: Some part names and numbers from these instructions will be referred to in the PDL6 Installation Instructions.**

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Connect the shifter pedal to the bottom front hole of the FC10-L using the bolt and nut previously removed, as shown in picture K.



Picture K

Thread the old shifter linkage all the way into the Shifter Linkage Extension (Part #6) and tighten the nut on the old shifter linkage against the new Shifter Linkage Extension. Note: Keep the ends oriented the same as they were removed, as the back end is a left hand thread. Thread an M6-1.0 Nut (Part #17) onto the other end of the Shifter Linkage Extension. Thread the linkages back into the ball joints of the shifter pedal and shifter arm as shown in Picture L.



Picture L

Install a foot peg as previously done.

The position of the Shifter pedal can be adjusted by removing the shifter arm from the spline and rotating it a notch or two, clockwise or counterclockwise. Fine adjustment can also be accomplished by threading the Shifter linkage in or out of the ends. After adjustment is finished, make sure to tighten the nuts against the ball joints to secure it.

That's it!

It is recommended that at this point you double check that ALL connections are tight and take the bike for a test ride and make any other adjustments necessary for the optimal position of your shifter and brake pedals.

Enjoy the ride!

