

Subject: SpeedControl Brake Setup Instruction

Series : Propel Advanced SL, Advanced and Envie Advanced Series

This instruction guide contains important information, please read it thoroughly. This guide is to be used in combination with the Owner's Manual of Propel & Envie series and the instructions from the manufacturer of the brake lever for setting up SpeedControl brake correctly.

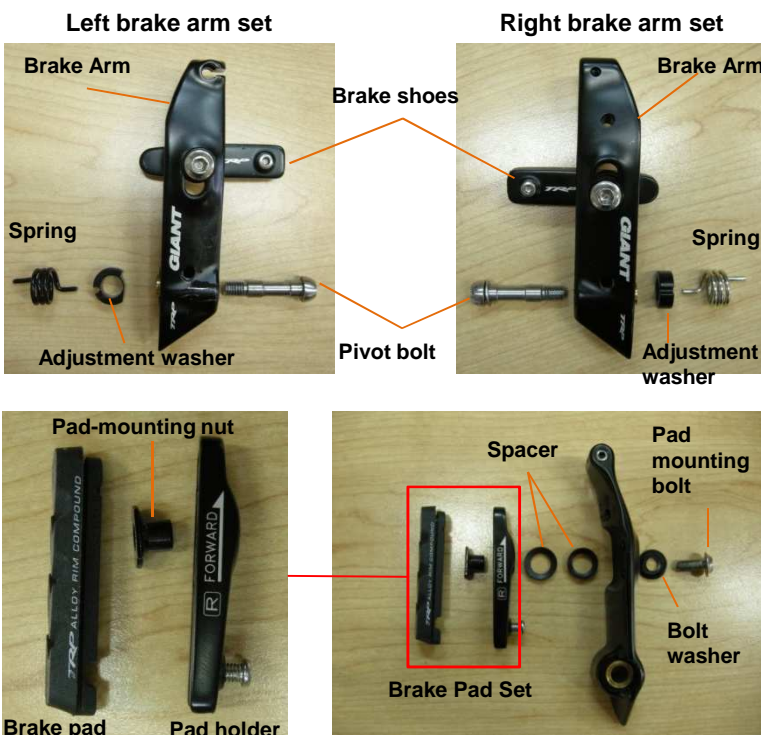
Precaution

- Always remove the wheel before installing SpeedControl brakes to the bicycle, it can prevent the brakes from touching wheel, which can cause damage to the wheel or brake unit.
- Find an authorized GIANT dealer for helping you if you have any doubts about your ability to setup the brakes correctly. Improper brake setup can cause to lose control, which may result fall from bicycle and injury or death.

Brake cable routing

Please refer to the Propel & Envie series owner's manual and the manufacturer's instructions of the brake lever to route the brake cable internally through the frame.

Accessories



Tools required:

- Allen key
 - ✓ 5mm
 - ✓ 4mm

NOTE: Black spring is for left brake arm set and silver spring is for right brake set.



TECHNICAL BULLETIN



Spring set: 1471-TKBSPR-401

Part Description:

- There are 2 springs and 2 adjustment washers included in the spring set.
- This set is used on all SpeedControl front and rear brakes.



Brake arms set:

| | Alloy | Alloy CNC | Carbon |
|--------|-----------------|-----------------|-----------------|
| FT new | 1471-TKB105-402 | 1471-TKB107-402 | 1471-TKB109-401 |
| RR | 1471-TKB106-401 | 1471-TKB108-401 | 1471-TKB110-401 |

Part Description:

- The set includes one left & one right brake arm, small parts ex. spring tension screw, brass bushing and etc...
- The new front (FT) brake arms are used on the bikes produced as of 01-May-2013. (The shorter brass bushing section is on new FT brakes.)



Pivot bolts set: (2 bolts per set)

- 1471-TKBOL-403: Stainless steel bolts with 20.5mm pivot section for new FT set.
- 1471-TKBOL-404: Titanium bolts within 20.5mm pivot section for new FT set.



Pad mount set: (1 left & 1 right side of pad mount)

- 1471-TKBBRA-401: Regular alloy mount.
- 1471-TKBBRA-402: Lighter weight alloy mount.

Each side of pad mount includes pad mounting bolt, bolt washer, spacers, & the brake pad set described as previous page .



Brake cable guide (noodle):

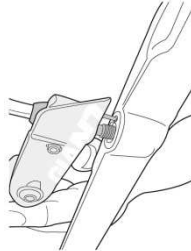
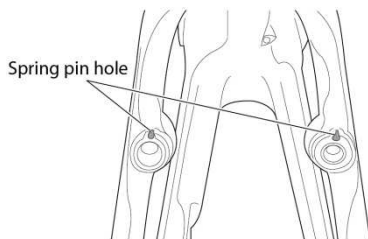
- 1471-TKBGUI-401: Regular cable guide.
- 1471-CM282A-301: Lighter weight cable guide.

TECHNICAL BULLETIN

Preparation

1. Check if brake accessories are complete.
2. Remove the wheel from bicycle when installing or replacing brakes.

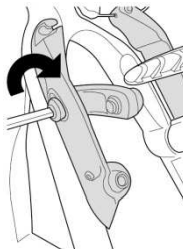
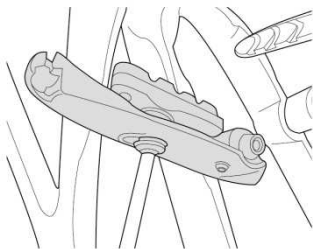
Installation of the brakes onto the frame



1. Attach left side of the brake set to the seat stay, insert the long spring pin into the pin hole, then fasten pivot bolt. Follow above instruction to assemble the right brake set to seat stay.

⚠ WARNING: The springs have certain assembly direction. Assembly of the spring in wrong direction will cause spring malfunction. Error example:

- Use of a black spring to a right brake arm set.
- Insertion of short spring pin into the frame.



2. Slightly loosen left pad mounting bolt, turn the pad parallel to brake arm, then push the brake arm parallel to seat stay.
3. Turn the pad set vertical to brake arm, then fasten the pad mounting bolt.

⚠ WARNING: Do not release brake arm before fastening the pad mounting bolt. The outward force of the spring may suddenly push the brake arm to return to its beginning position, which may damage the frame.

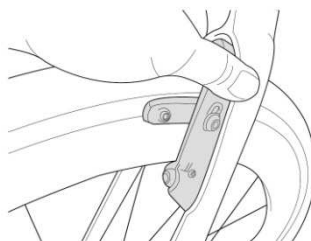
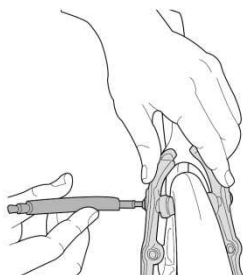
4. Process the right brake set same as above.

5. Install the wheel to the bicycle.

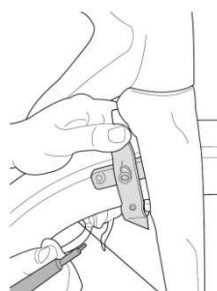
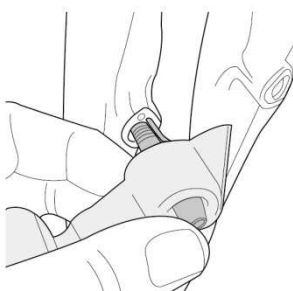
6. Hold both side brake arms, pinch them to make the brake pads touch the braking surface of the rim.

7. Slightly loosen pad mounting bolt, adjust the pad to be parallel with brake surface. Then slowly fasten the bolt.

NOTE: Use your finger as stopper to avoid the pad turns when fastening the pad mounting bolt.



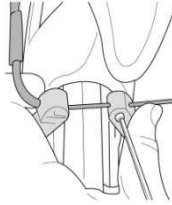
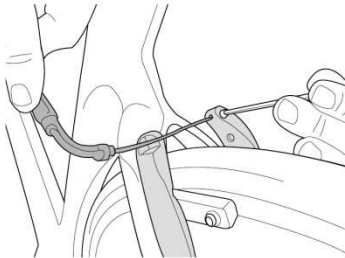
Install the brake onto the fork



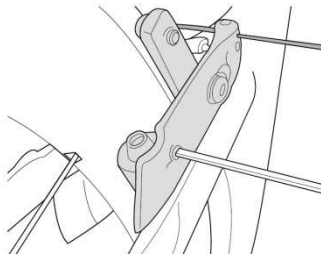
1. The procedures to install the front brake to fork are same rear brake installation. Please follow step 1-7 to install the front brake onto the fork.

TECHNICAL BULLETIN

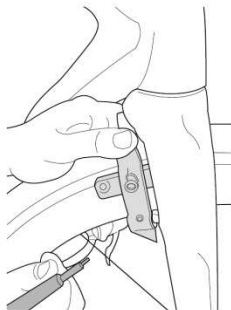
Align brake parallel and toe



1. Loosen cable fixing bolt.
2. Set barrel adjuster to a tighter position by turning it 6-7 rounds.
3. Thread brake cable into the noodle, then pass through brake arm eyelet.
4. Pinch brake arms to touch the brake surface, pull the brake cable tight. Then fasten the cable fixing bolt.
5. Reduce cable tension by turning barrel adjuster back to beginning position, the clearance between pad and rim brake surface will be set at 1-1.5mm.



5. Center the brake arms by turning the spring tension screw (align to seat stay)
6. Squeeze the brake lever or pinch the brake arms to touch the brake surface on the rim.

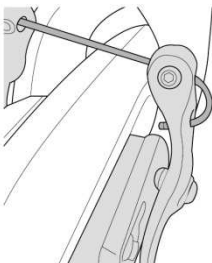


Fine tuning

7. Slightly loosen the pad mounting bolt, the pad can be moved flush against the rim, then fasten the pad mounting bolt slowly and avoid that the pad turns when fastening.

⚠ WARNING: Be careful when loosening the pad mounting bolt. If the pad bolt is loosened too much it can cause the brake arm to suddenly return to outward position and may damage the brake arm or rim. Hold the brake arm until the bolt is re-tightened.

8. Release the brake lever or the brake arm. Inspect there is no toe in or toe out. Redo step 7 and 8 if necessary.



9. Cut the excess cable. A length of 35 mm additional cable is sufficient.
10. Bend cable and thread into cable eyelet on the left brake arm.

NOTE: The procedure of Front and rear brakes adjustment is the same.