



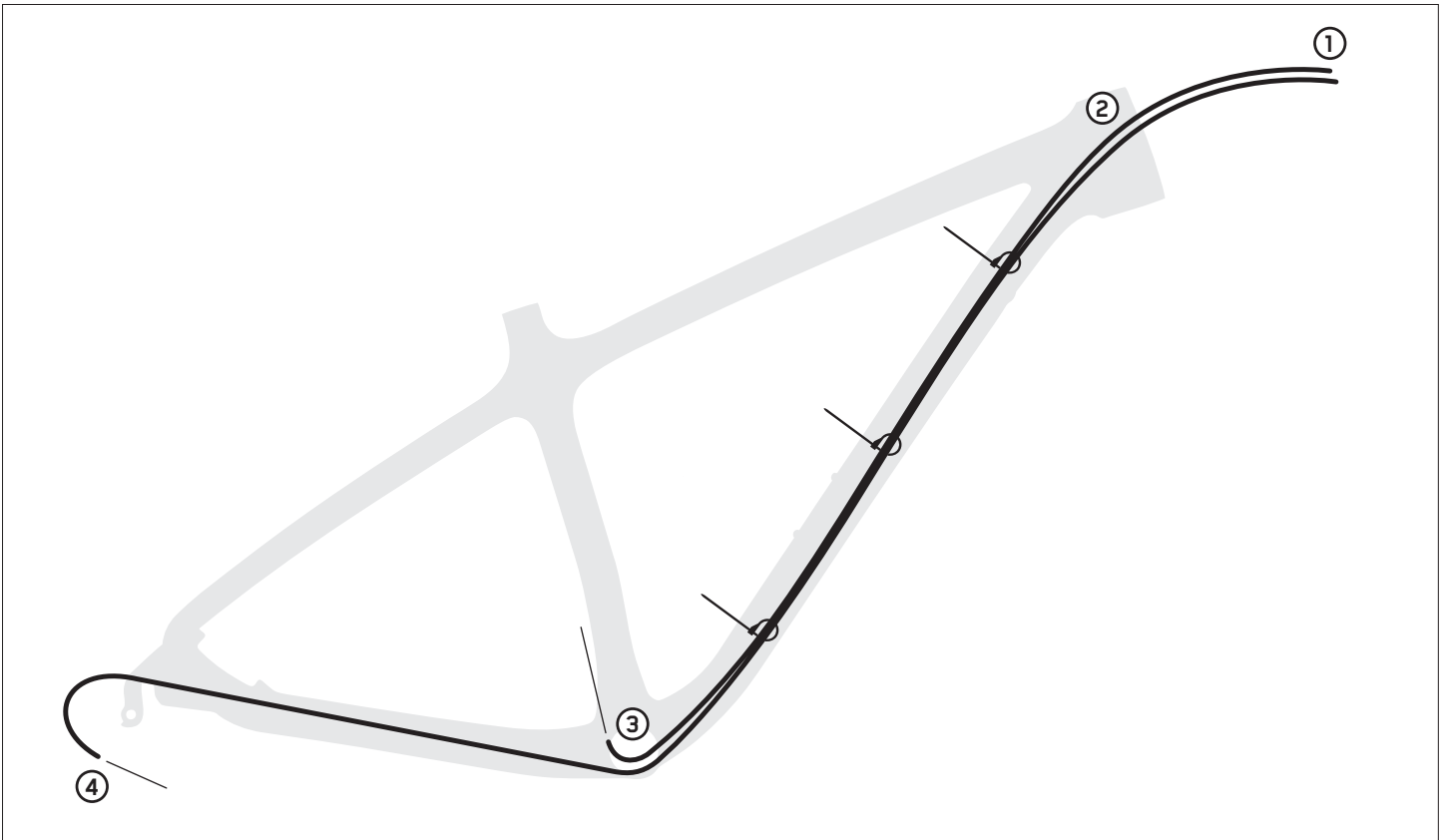
# NINER ENCYCLOPEDIA >>

## SPECIFICATION & SETUP GUIDE

### AIR/ONE 9 RDO CABLE ROUTING\*

\* for ONE 9 RDO, please disregard any reference to front derailleur routing

#### DIAGRAM OVERVIEW



①	FRONT & REAR	
②A	FRONT (BOTTOM PULL)	
②B	FRONT (FRONT PULL)	
③	FRONT ONLY	
④	REAR ONLY	



### AIR 9 RDO CABLE ROUTING

#### INSTRUCTIONS

##### Required Parts:

- (2x) Shifter Cables (not included)
- (2x) Long sections of 4mm Cable Housing (enough for full-length internal routing from shifter to derailleur, not included)
- Old Shifter Cable to be used as a guide tool (not included)
- (3x) 4mm Housing Ferrules (not included)
- (3x) Cable Housing Anchor Shims (F1) (included)
- (6x) Medium Zip Ties
- Sealed Housing Ferrule (included)
- Rubber Seal (included)
- Your favorite beer (definitely not included)

##### Front Derailleur:

1) **GETTING READY** - With the fork, bars and controls installed, and with the bottom bracket removed from the frame, insert a bare shift cable in the drive side hole of the head tube badge (F2) until you can grab it through the bottom bracket shell.

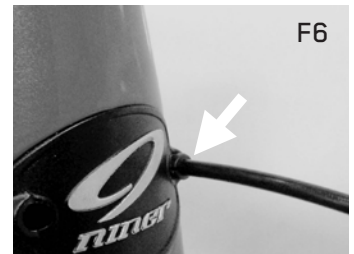
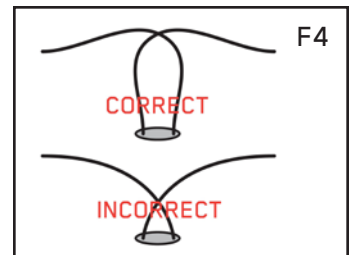
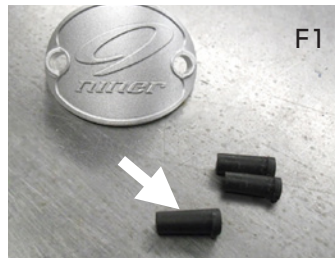
2) **THREADING THE HOUSING** - Install one of the long 4mm cable housing sections up through the BB shell using your shifter cable as a guide. Cinch a zip tie onto the housing approximately 12 inches from the shifter end and then install two more at even intervals as you thread the housing into the frame (F3). The zip ties act as springs and help keep the housing quiet inside the downtube.

3) **CUTTING TO LENGTH** - Once the housing and zip ties are inside the frame and the housing is projecting through the headbadge, temporarily remove the shifter cable and insert the lower end of the housing into the silver housing stop in the bottom bracket shell. Making sure the housing is fitting snugly against the inside bottom of the BB shell, trim the housing at the shifter leaving ample length (F4) to allow bars to turn approximately 90 degrees in each direction.

4) **INSTALLING FERRULES** - Install a regular 4mm housing ferrule on on the shifter end of the housing. Remove the lower end of the housing from the BB housing stop, pull it out of the bottom bracket shell slightly and install the sealed housing ferrule (F5). Install one of the Cable Housing Anchor Shims on the housing at the headbadge and seat it snugly inside the headbadge (F6).

5) **SEATING THE SEALED FERRULE** - To ease installation of the sealed housing ferrule into the BB housing stop, thread an old shifter cable from the outside in through the silver housing stop. Run the cable backwards through the housing for a few inches and this will act as a guide to help you work the sealed ferrule into position (F7). Slide the included rubber seal over the sealed housing ferrule tip (F8). The cable housing should be tucked neatly out of the way along the bottom of the BB shell (F9).

6) **CABLE INSTALLATION** - Run one of your new shifter cables through the front shifter and through the housing. Make sure the ferrules on both ends are seated properly and attach the cable to your front derailleur.





### AIR 9 RDO CABLE ROUTING (CONT.)

#### Air9 RDO cable routing guide

##### Rear Derailleur:

1) **GETTING READY** - Insert a bare shift cable in the second (non-drive side) hole of the head tube badge (R1) until you can grab it through the bottom bracket shell. Continue to run the cable through the nylon tube that is inside the chainstay from the BB shell until it exits at the rear of the bike. Pull the nylon tube out of the frame leaving the cable in place as a guide (R2).

2) **THREADING THE HOUSING** - Thread the remaining long 4mm cable housing section through the chainstay to the BB shell using your shifter cable as a guide. As the housing passes through the BB (R3), cinch a zip tie onto the housing approximately 12 inches from the shifter end and then install two more at even intervals as you thread the housing into the frame.

3) **CUTTING TO LENGTH** - Once the housing and zip ties are inside the frame and the housing is projecting through the headbadge, temporarily remove the shifter cable and insert the end of the housing in the rear derailleur housing stop to check length (R4). Trim the housing at the shifter leaving ample length (R5) to allow bars to turn approximately 90 degrees in each direction.

4) **INSTALLING FERRULES** - Install a regular 4mm housing ferrule on on the shifter end of the housing. Remove the other end of the housing from the derailleur housing stop and install the last 4mm housing ferrule. Install one of the Cable Housing Anchor Shims on the housing at the headbadge (R6) and seat it snugly inside the headbadge. Install the last Cable Housing Anchor Shim on the housing where it exits the chainstay (R7) and seat it snugly inside the frame.

5) **CABLE INSTALLATION** - Run the remaining new shifter cable through the rear shifter and through the housing. Make sure the ferrules on both ends are seated properly and attach the cable to your rear derailleur.

6) **FINISHING** - Success! Both derailleurs are ready for adjustment. (R8)

