

Installation Instructions

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Eibach Pro Street-S Coilovers - #82105.711

2013+ Subaru, BRZ, 2.0L 4 cyl.

2013+ Scion FR-S, 2.0L 4 cyl.

Kit Contents	Description	Part Number	Qty
	Front Coilover, Right	82105.8100R	1
	Front Coilover, Left	82105.8100L	1
	Rear Coilover, Right	82105.8200R	1
	Rear Coilover, Left	82105.8200L	1
	Height adjustment tool	PDK4.TOOL	1
	Height adjustment tool	PDK6.TOOL	1

NOTES: Read All Instructions Before Beginning Installation

- **Installation of a *Eibach Pro Street-S Coil-Over* set** should only be performed by a qualified mechanic experienced in the installation and removal of suspension componentry.
- **Use of a hoist** is highly recommended and will substantially reduce installation time.
- **Never work on or under a vehicle** unless it is properly supported by safety stands and wheels are blocked.
- **Never use impact wrenches or guns** to install or remove shock absorber piston components, shafts and piston rod nuts.
- **Never disassemble or cut open shock absorbers** and/or shock absorber inserts. They contain oil and gas under high pressure.
- **After installation**, it is always important to inspect and adjust the following if necessary:
 - Wheel alignment such as camber, caster & toe.
 - Tire and/or wheel fender clearance.
 - Brake line clearance and attachments.
 - Brake anti-locking and anti-skid system sensors.
- **Height Adjustment** – Should be performed with the wheels completely off the ground and with the springs fully unloaded.





Tightening torque for piston rod nut								
Thread Size	Nm	ft-lb	Thread Size	Nm	ft-lb	Thread Size	Nm	ft-lb
M8	25	18	M12 x 1.25	35	26	M14 x 1.50	50	37
M10 x 1.0	20	15	M12 x 1.50	40	29	M14 x 2.00	50	37
M10 x 1.25	20	15	M12 x 1.75	40	29	M16 x 1.50	50	37
M10 x 1.50	20	15						

Height adjustment instructions

1. Front Height adjustment:

"A" dimension-20mm (See front coilover illustration below) = approx. **345mm wheel center to fender lip**.

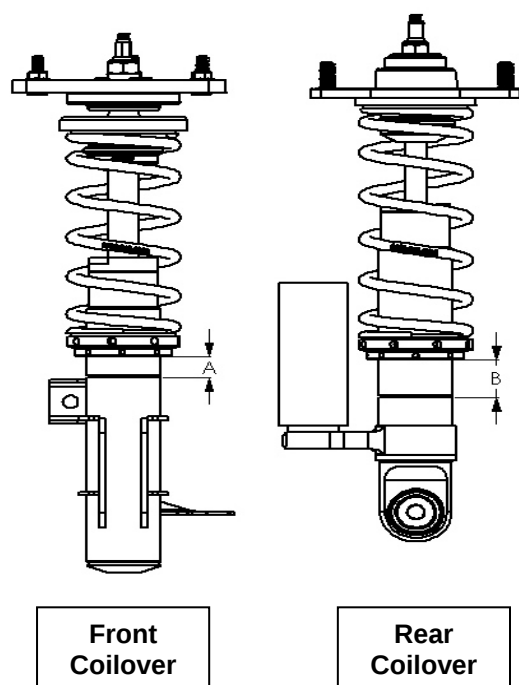
- This is the maximum amount of lowering suggested by Eibach, using the springs that are included in the Pro Street S Coilover Kit. Going beyond this amount will cause a rough ride due to limited bump travel

2. Rear Height adjustment:

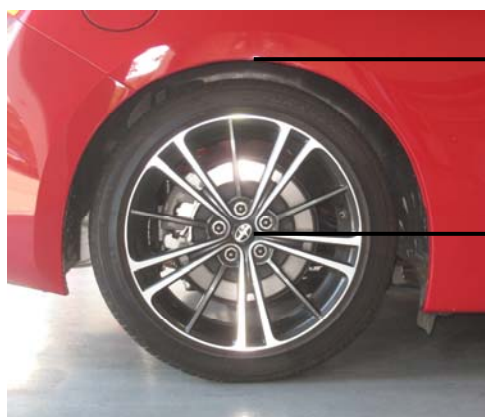
"B" dimension-25mm (See rear coilover illustration below) = approx. **350mm wheel center to fender lip**.

- This is the maximum amount of lowering suggest by Eibach, using the springs that are included in the Pro Street S Coilover Kit. Going beyond this amount will cause a preload issue at full droop.

Note: Height adjustment should be performed with the wheels completely off the ground and with the springs fully unloaded.



Wheel Center to Fender Lip
reference measurement



Front = 345mm
Rear = 350mm

FRONT SUSPENSION REMOVAL

1. Raise the vehicle off the ground and firmly support it with safety stands, then, remove the front tires. **NOTE: Do not work on or underneath the car without the proper safety equipment**



Photo 1

2. Loosen and remove the nut that secures the anti roll bar end link to the strut. (See Photo 1)



Photo 2

3. Loosen and remove the screw that secures the brake line to the strut. (See Photo 2)



Photo 3

4. Unclip/Remove the wheel speed sensor from the side of the strut. (See Photo 3)

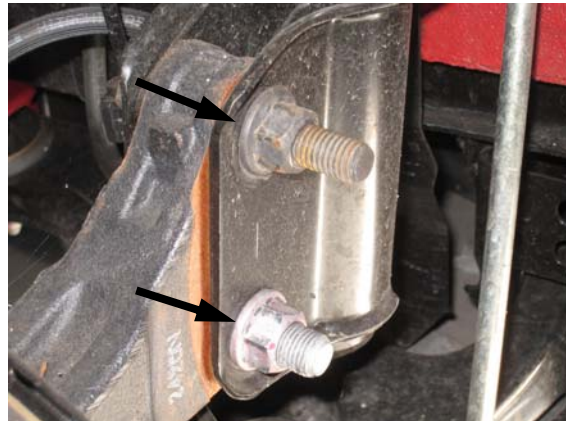


Photo 4



Photo 5

5. Loosen and remove the OE hardware that secures the strut mount to the knuckle, then, lower the knuckle downward. **Note: Support the knuckle to keep tension off of the brake line.** (See Photos 4 & 5)



Photo 6



Photo 7

6. Loosen and remove the three upper strut mount nuts, then, remove the strut from the vehicle. (See Photos 6 & 7)



Photo 8



Photo 9

7. Using a spring compressor, remove the OE strut mount as this will be reused for the installation of the Eibach Pro Street S coilovers. (See Photos 8 & 9)

FRONT SUSPENSION INSTALLATION



Photo 10



Photo 11

8. Install the OE strut mount onto the Eibach Pro Street S coilover using the provided nylock nut. (See Photos 10 & 11)



Photo 12



Photo 13

9. Install the coilover onto the vehicle and secure it to the strut tower using the OE hardware removed in step 6 of the removal process. **Note: The front Coilovers are left and right side specific and are designated as right and left according to the part number description at the beginning of this instruction sheet.** (See Photos 12 & 13)



Photo 14

10. Secure the lower strut mount to the knuckle using the OE hardware. (See Photo 14)



Photo 15

11. Secure the end link to the coilover using the OE hardware. (See Photo 15)



Photo 16

12. Secure the wheel speed sensor to the bracket on the coilover. (See Photo 16)



Photo 17

13. Secure the brake line to the bracket using the OE bolt and the supplied nylock nut. **(See Photo 17)**

REAR SUSPENSION REMOVAL



Photo 18



Photo 19

1. Remove the trunk lining to gain access to the upper strut mount nuts, then, remove the nuts that secure the upper strut mounts. **(See Photos 18 & 19)**



Photo 20

2. Loosen and remove the lower shock mount bolt and nut. **(See Photo 20)**



Photo 21

3. Loosen and remove the anti roll bar end link bolt and nut. **(See Photo 21)**



Photo 22



Photo 23

4. Loosen and remove the bolt and nut that secures the control arm to the knuckle. **(See Photos 22 & 23)**



Photo 24

5. Pull the control arm downwards, then, remove the rear strut from the vehicle. **(See Photo 24)**



Photo 25

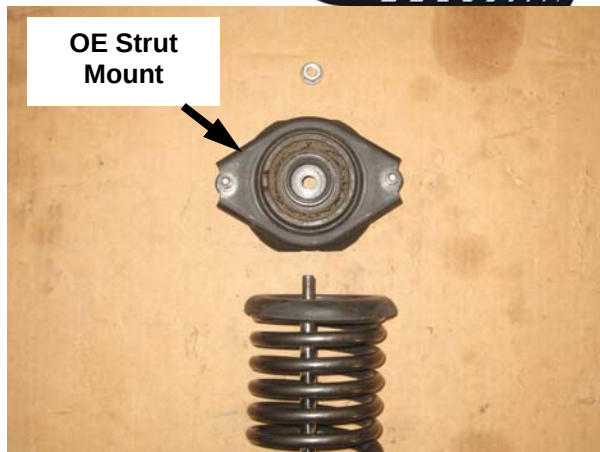


Photo 26

6. Using a spring compressor, remove the upper strut mount as this will be reused for the installation of the Eibach Pro Street S coilover. **(See Photos 25 & 26)**

REAR SUSPENSION INSTALLATION



Photo 27



Photo 28

7. Install the OE strut mount onto the Eibach Pro Street S coilover, then, secure it using the OE hardware. (See Photos 27 & 28)



Photo 29



Photo 30



Photo 31

8. Install the Eibach Pro Street-S Damper onto the vehicle and secure the lower mount using the OE

hardware, making sure the reservoir is towards the rear of the car. **Note: The rear coilovers are right and left side specific and are designated as right and left according to the part number description at the beginning of this instruction sheet. Note: Do not tighten at this time. (See Photos 29, 30, & 31)**



Photo 32

9. Secure the lower control arm to the knuckle using the OE hardware. **Note: Do not tighten at this time. (See Photo 32)**



Photo 33

10. Secure the end link to the lower control arm using the OE hardware. **Note: Do not tighten at this time. (See Photo 33)**



Photo 34



Photo 35

11. Using a floor jack raise the suspension upwards, while guiding the upper mount studs into the chassis, then, secure the upper strut mount using the OE hardware. (See Photos 34 & 35)



Photo 36



Photo 37

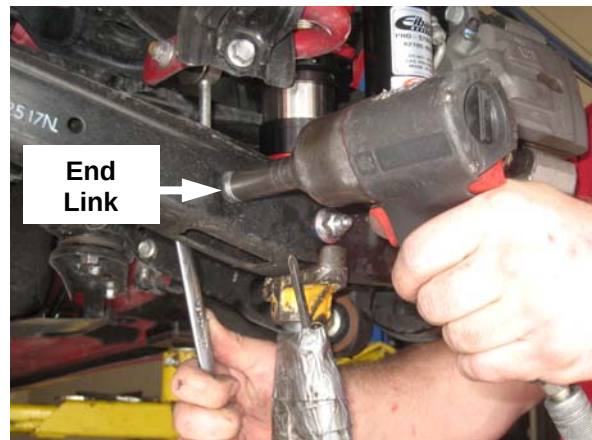


Photo 38

12. Preload the suspension using a screw jack or floor jack, then, tighten all the lower control arm hardware. (See Photos 36, 37, & 38)
13. Double check to make sure everything is tightened and properly positioned, then, test drive the vehicle.