Show

1 2 3 4 5 6

WELCOME TO FOX RACING SHOX & FOXHELP

Thank you for choosing FOX Racing Shox for your bicycle. In doing so, you have chosen the finest suspension product in the world. FOX products are designed, tested and manufactured in Santa Cruz County, California, by the best in the industry.

FOX Racing Shox. Wherever you ride.

FOXHelp–the web browser-based help system and owner's manual–provides you with in-depth information to help you setup, use, and maintain your FOX Racing Shox product.

Please read the following pages before using FOXHelp:

1. **Welcome to FOX Racing Shox!**
2. **Using FOXHelp**
3. **Important Safety Information**
4. **Consumer Safety**
5. **Product Registration**
6. **Product Selector**

You can also access FOXHelp directly from the FOX Racing Shox website. This gives you access to the latest information, but requires a broadband connection to the Internet.

Compare the version number below to the version of FOXHelp running from the FOX Racing Shox website to see where the latest information resides; access the information from whichever source has the latest revision. If the version numbers match, view FOXHelp from either source.

Please read this manual before setting up, using, maintaining or servicing your FOX Racing Shox product.
FOX Racing Shox recommends that you read the first six pages of FOXHelp.

Disable pop-up blocker software or FOXHelp may not work properly.

FOXHelp v1.7

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IMPORTANT SAFETY INFORMATION

Forks

FOX bicycle products are not designed or manufactured for use on any motorized bicycle, motorized cycle or motorized vehicle or for use on any vehicles carrying more than one operator/rider, such as tandem bicycles. Any such use constitutes misuse, which may result in property damage, serious injury, or death and will void all FOX warranties.

- Verify that the brakes on your bicycle are installed and adjusted properly before riding the bicycle. Improperly installed or adjusted brakes can cause loss of control and serious or fatal injuries to the rider. Use only disc brakes designed by the manufacturer for use on your particular FOX product. For example, "V"-style brake **cannot** be used on **FOX 36** or **FOX 40** forks. Do not route brake cables or housing through the stem.
- If your fork loses oil, tops out excessively or makes unusual noises, immediately stop riding and contact FOX Racing Shox or an Authorized Service Center for inspection. Continued use of the fork can cause loss of control and serious or fatal injuries. Some noises such as spring rattle, oil flow and minor clicks are normal.
- Use only FOX Racing Shox replacement parts. Using aftermarket parts on your fork will void its warranty. Aftermarket replacement parts can also cause structural failure resulting in loss of control and serious or fatal injuries.
- **32MM Forks:** If mounting the bicycle in a carrier designed to hold a fork by its dropouts, use caution to not tilt the bicycle to either side. Tilting the bike with the dropouts in the carrier can cause structural damage to the fork. Ensure that the fork is fastened securely with the quick-release and that the rear wheel is properly held. If the bicycle ever tilts or falls from a bicycle carrier, do not ride it until it is examined by a qualified dealer, Authorized Service Center or FOX Racing Shox. A fork leg or dropout failure can cause loss of control and serious or fatal injuries.
- **36 & 40 Forks:** If mounting the bicycle in a carrier designed to hold a fork by its dropouts, use caution to not tilt the bicycle to either side. Tilting the bike with the dropouts in the carrier can cause structural damage to the fork. Ensure that the fork is fastened securely with the **bike carrier's thru-axle mount** and that the rear wheel is properly held. The four axle pinch-bolts must be torqued (see note below) to specification when mounting to the bike carrier. If the bicycle ever tilts or falls from a bicycle carrier, do not ride it until it is examined by a qualified dealer, an Authorized Service Center or FOX Racing Shox. A fork leg dropout failure can cause loss of control and serious or fatal injuries.

Torque the pinch bolts and axle on the 36 and 40 forks to 19 in/lb. (215 N-cm) using a torque wrench.

- FOX Forks do not include reflectors for on-road use. FOX forks are designed for use in competitive off-road riding and racing. Proper reflectors meeting the Consumer Product Safety Commission's (CPSC) requirements should be installed if the fork will be used on public roads.
- Except for the **FOX 40**, all FOX forks have a crown/steerer/upper tube assembly. These parts are pressed together (in the case of the **FOX 40**, the lower crown and steerer are pressed together) in a one-time, precision press-fit operation. Replacement of any of these parts requires a completely new assembly. Do not attempt to remove or replace the steerer or upper tubes independently of the crown. **Do not attempt to add threads to the threadless steerers.** Modifying the crown/steerer/upper tube assembly as described here can cause the rider to lose control of the bicycle resulting in serious or fatal injuries.
- After riding in salt-abundant areas (e.g., ocean, salted roads in winter, etc.), FOX recommends completely rinsing off your bicycle to prevent corrosion.

Rear Shocks

- If the shock ever loses oil or makes unusual noises, stop riding and have the shock inspected by a qualified technician. A broken or malfunctioning shock can result in loss of control and serious injury or death.
- Do not modify your bike frame or shock. Use only genuine FOX Racing Shox parts. Modification, improper service or use of aftermarket replacement parts voids the warranty and could cause the shock to malfunction, and can result in loss of control and serious injury or death.
- Follow schedule maintenance recommendations. Shock service should be performed by FOX Racing Shox in the USA or an Authorized Service Center outside the USA. The exception is air sleeve and mounting hardware service and maintenance, which can be performed by the consumer or a dealer.
- FOX Racing Shox contain a nitrogen charge. Do not pry out the white nylon (plastic) plug at the body eyelet end of the shock. The charged portion of the shock should only be opened by a FOX Racing Shox technician. Opening a nitrogen pressurized shock can be dangerous and can result in serious injury or death.
- On air shocks, the portion of the shock charged with nitrogen does not need to be opened to perform air sleeve service.

- After riding in salt-abundant areas (e.g., ocean, salted roads in winter, etc.), FOX recommends completely rinsing off your bicycle to prevent corrosion.

Do not attempt to pull apart, open, disassemble or service a shock if it is compressed or has not returned (will not return) to its original neutral length (no load on the shock). This can result in serious injury.

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WHEREVER YOU RIDE.

INSTALLING A 32MM FORK

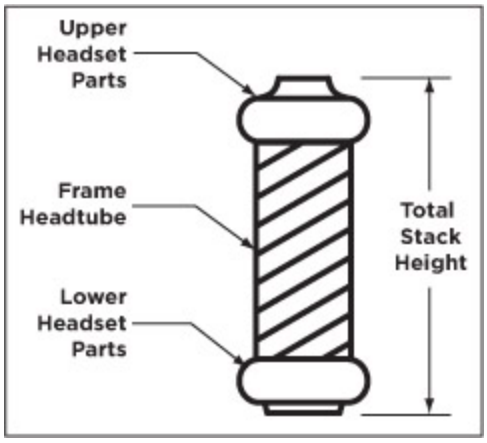
You can view a Flash video of the 32MM New Fork Installation if you are installing the fork for the first time.

You can also view a Flash video of the 32MM Replacement Fork Installation if you are replacing an existing fork.

FOX Racing Shox highly recommends that a qualified bicycle technician install your FOX fork on your bicycle. Improperly installed forks are dangerous, and can cause loss of control and serious or fatal injuries. Read this section in its entirety before beginning the installation process of your FOX fork.

To install a FOX 32MM fork on your bicycle:

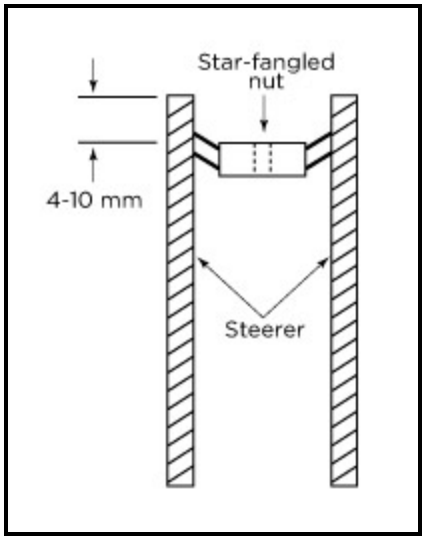
1. Remove the existing fork from the bicycle.
2. Remove the crown race from the old fork.
3. Measure the steerer tube length of the existing fork. Transfer this measurement to your new FOX fork's steerer tube. If you don't have an existing fork to measure, measure the headset stack height (shown in the diagram below). Cut your steerer to the same measurement as the Total Stack Height measurement. Refer to your stem manufacturer's instructions to be sure there will be enough clamping surface for the stem. In this case you may need to cut your steerer tube slightly shorter to allow enough clamping surface so that the stem cap bolt can pull up on the steerer tube, ensuring a snug fit.



4. If it is necessary to cut the steerer tube, **measure twice and cut once**. It is recommended that a cutting guide be used when cutting the steerer tube.

If the steerer has any nicks or gouges, the crown/steerer/upper tube assembly must be replaced. A nick or gouge can cause the steerer to fail prematurely, and cause loss of control of the bicycle and serious or fatal injuries.

5. Use a crown race setter to install the crown race firmly against the top of the crown. Install the star fangled nut in the steerer tube with a star-fangled nut installation tool to the proper depth (see Star-fangled nut installation depth drawing below).
6. Install your FOX fork on the bicycle. The headset should be adjust so that it turns freely without drag or free play.
7. Torque the stem clamping bolts to the stem manufacturer's specifications.
8. Re-install the brakes and adjust the brake pads according to the brake manufacturer's instructions.
9. If your fork is a disc brake-only model, route the front disc brake hose through the supplied disc brake hose guide. The disc brake hose guide is assembled as shown in the drawings below.
10. Tighten the M3 x 12 disc brake hose guide screw with a 2.5 mm-hex key wrench and torque to 8 in-lb (90 N-cm).



Star-fangled nut installation depth

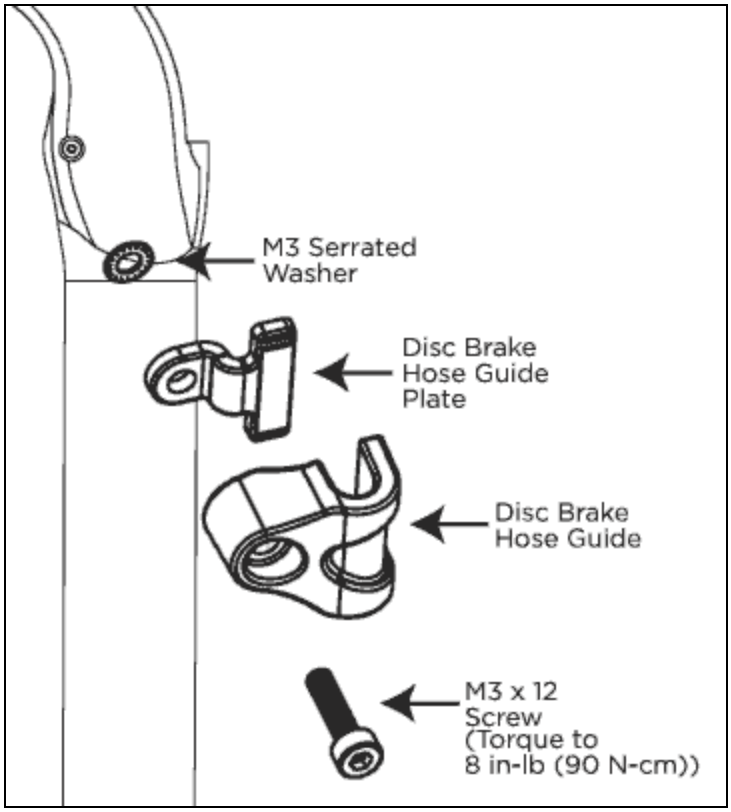
Brakes

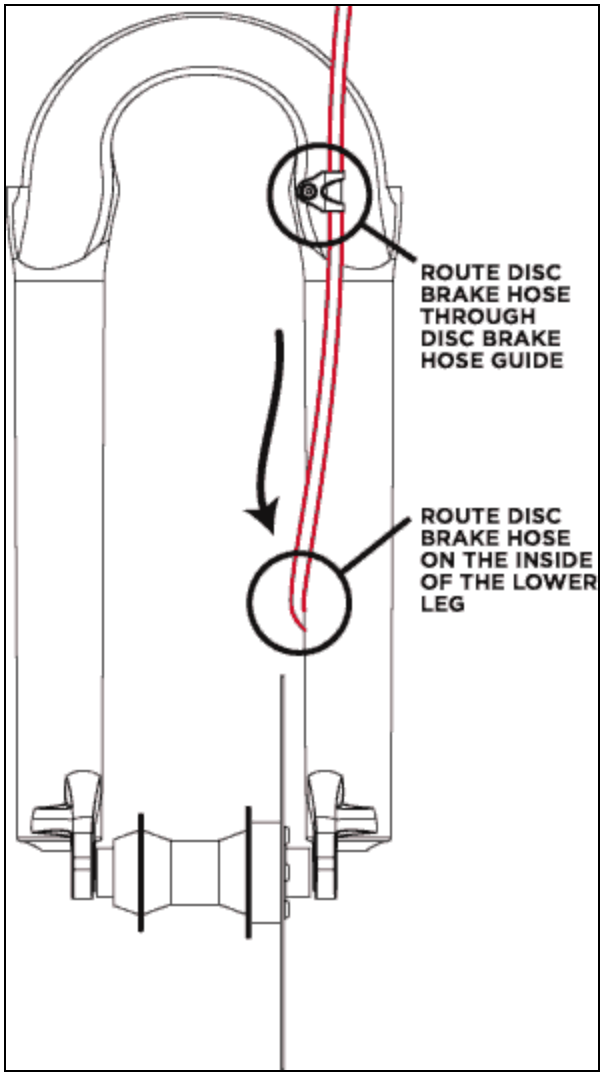
Linear-pull

Linear-pull brakes (i.e., V-brakes) can be used on FOX 32MM forks equipped with brake posts. Install and adjust linear-pull brakes according to the manufacturer's instructions. Test brakes for proper operation on flat land. Since FOX 32MM forks use a hangerless lower leg design, cantilever style brakes cannot be used.

Disc

Disc brakes with 160 – 203 mm rotors can be used on FOX 32MM forks. Do not use rotors larger than 203 mm. Install disc brakes and torque all fasteners according to manufacturer's specifications. Install, route and check that all cables or hydraulic hoses are securely fastened to the lower leg and will not move during compression of the fork. It is recommended that new disc brake pads be installed to ensure proper alignment and to minimize drag. Test brakes for proper operation on flat land.





Torque calipers to brake manufacturer's specifications.

11. Mount the front wheel. Check that the quick-release nuts sit in the fork dropout counterbores. The quick-release should engage four (4) or more threads. Close the quick-release with the lever in front of and parallel to the left fork leg.

Tire Sizes

FOX 32MM forks will accept tire sizes up to 2.40 inches wide (e.g., WTB MotoRaptor 55/60, 26 x 2.40). Any tire larger than 26 x 2.30 must be checked for clearance using the following method.

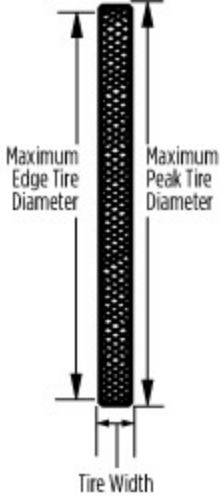
Determining correct tire size

With the tire installed and inflated on the rim, measure the following three dimensions:

Maximum Peak Tire Diameter = 686 mm = 27.00 inch

Maximum Edge Tire Diameter = 652 mm = 25.67 inch

Maximum Tire Width = 61 mm = 2.40 inch



Do not use a tire if any measurement exceeds the maximum dimensions shown above. Using larger tires is not recommended and can cause serious or fatal injuries.

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WHEREVER YOU RIDE.

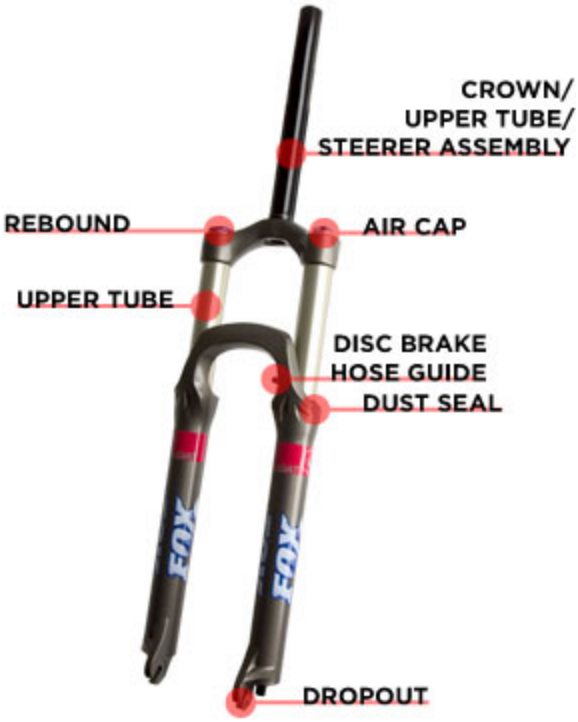
Bushing Technology & Inspection | Seals & Foam Rings | Control Direction | Oil Volumes | Structural Inspection | Dropout Thickness Inspection | Torque Values | Unit Conversion | Suspension Tuning Tips | Using the Pump | Important Safety Information | Service Intervals | Distributors & Global Service Centers | Contact FOX | Warranty Information

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FLOAT R

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Changing Travel | Service Intervals | Important Safety Information



weight	3.84 lbs./1.74 kg
travel	5.5 in. / 140 mm
features/adjustments	air spring pressure, rebound
spring/damper type	air/open bath
intended use	all-mountain, cross-country
color	FLOAT Gold

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

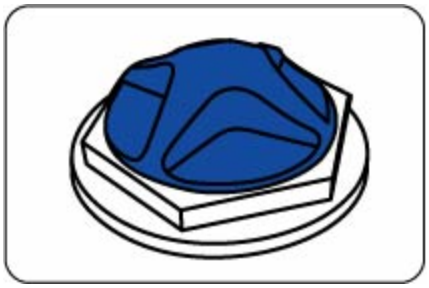
1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust sag. Generally, sag should be set to 15 – 25% of total fork travel.

1. Unscrew the blue aircap (shown below) on top of the left fork leg to expose the Schrader valve.



2. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
3. Using the Air Spring Settings table below, pump your fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
4. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
5. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
6. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
7. Compare your sag measurement to the Sag Setup table below.

   If your sag is lower than on the table, screw on the pump fitting, note the current air pressure setting and depress the black bleed-valve to reduce the gauge pressure by 5 psi. Measure sag again and repeat adjustment, if necessary.

   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
8. Screw the blue aircap back on, and go ride.

AIR SPRING SETTING GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	45 psi
125 - 135 lbs.	50 psi
135 - 145 lbs.	55 psi
145 - 155 lbs.	65 psi
155 - 170 lbs.	75 psi
170 - 185 lbs.	85 psi
185 - 200 lbs.	95 psi
200 - 215 lbs.	105 psi
215 - 230 lbs	115 psi
230 - 250 lbs.	125 psi

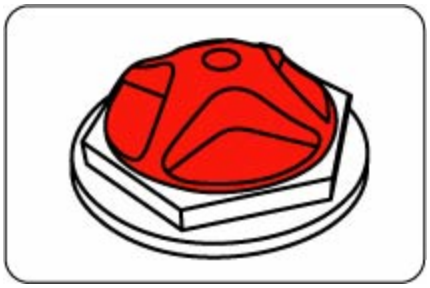
SAG SETUP		
Travel	**XC/Race FIRM**	**All-Mountain PLUSH**
100 mm (4")	15mm (5/8")	25mm (1")
140 mm (5.5")	21mm (7/8")	35mm (1 3/8")

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	(+) air pressure in 5psi increments

Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob clockwise slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Changing Travel

Travel on your FLOAT fork can be changed by rearranging the internal travel spacers. After changing travel, check the fork for proper operation before riding. If there is noticeable play in the fork or if it makes strange noises, disassemble the fork and check for complete number and correct orientation of spacers.

FLOAT forks can be reduced in travel, but they cannot be increased in travel beyond 140mm.

Tools Required for Travel Change

- 26mm 6-sided socket
- 10mm socket
- Small screwdriver
- Torque wrench
- Oil drain pan
- Plastic-faced hammer
- Measuring container w/ cc or mL increments

Supplies Required for Travel Change

Learn how to use the FOX High Pressure Pump

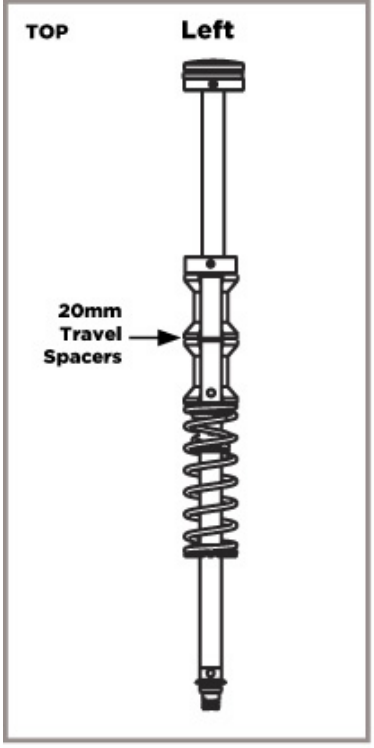
SUPPLIES REQUIRED		
Quantity	**Part Number**	**Part Name**
1	025-03-004-A	1 qt. bottle of FOX Suspension Fluid (7 wt.)
1	025-03-002-A	5cc Pillow Pack of FOX FLOAT Fluid
2	241-01-002-C	Crush washer
1	803-00-078	32MM Cartridge Seal Kit (optional)

1. Remove the blue air cap from the top of the left fork leg. Let the air out of the fork. Remove the left top cap with a 26mm socket 6-point socket wrench.
2. Loosen the bottom nut 3-4 turns with a 10mm wrench. With a plastic mallet, gently tap the bottom of the shaft to disengage it from the lower leg. Allow oil to drain into a bucket. Remove the bottom nut and crush washer.
3. Compress the fork as much as possible. The air piston will be visible about one inch below the top of the upper tube. Push the bottom of the air shaft upwards to push the air piston out of the top of the upper tube. Use a long, thin shaft screwdriver to push the bottom of the air shaft up through the hole in the bottom of the lower leg.
4. Pull the air-shaft assembly from the fork. Refer to the drawings below and add or remove the appropriate number of 20mm spacer(s) to achieve the desired travel.

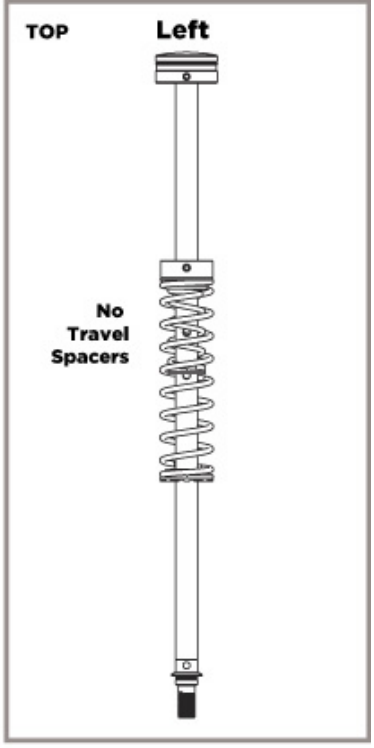
Spacers snap onto the air shaft between the negative spring guide and topout plate, as shown in the travel spacer orientation drawing below.

5. Lubricate the U-cup seal on the air piston with FOX FLOAT Fluid and re-install the air shaft assembly into the upper tube. Be sure to orient the U-cup seal as shown in the Seal Orientation drawing below.
6. Push the shaft until it approaches the bottom hole of the fork. Do not push the shaft all the way through the bottom hole.
7. Turn the fork upside down. Measure and pour 30cc of FOX Suspension Fluid through the bottom hole.
8. Push the air shaft assembly up until the shaft comes through the bottom hole. Install the crush washer and bottom nut. Torque to 50 in-lbs.
9. Turn the fork right side up. Pour 5cc of FOX FLOAT Fluid on top of the air piston.
10. Lubricate the o-ring on the air topcap with FOX FLOAT Fluid.
11. Re-install the topcap and torque to 165 in-lbs.
12. Pump up the fork to the desired pressure and cycle it several times to check for proper operation.
13. Re-install the blue air cap.
14. You’re done. Go ride.

Travel Spacer Orientation

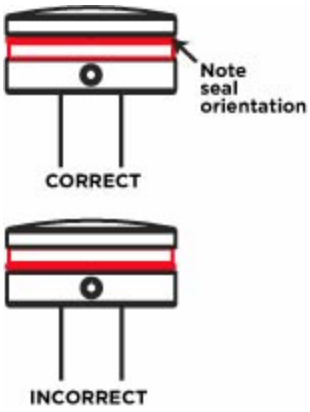


100mm Travel



140mm Travel

Seal Orientation



Ensure that the lip on the air piston seal is at the top.

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FLOAT RLC

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Locking Out the Fork | Adjusting Lockout Force | Adjusting Low-Speed Compression | Changing Travel | Service Intervals | Important Safety Information



weight	3.82 lbs./1.73 kg
travel	5.5 in. / 140 mm
features/adjustments	low-speed compression, lockout, lockout force adjust, air spring pressure, rebound
spring/damper type	air/open bath
intended use	all-mountain, cross-country
color	FLOAT Gold

Installing Your Fork

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Before You Ride

1. Check that quick-release levers are properly adjusted and tightened.
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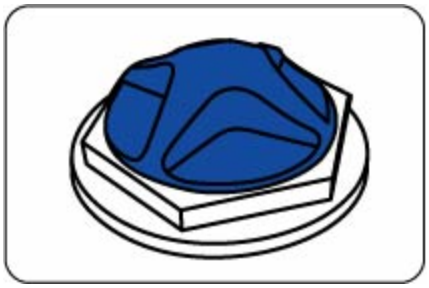
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6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Locking Out the Fork

The blue compression lockout lever is located below the red rebound adjuster knob. It allows the rider to close the compression damping circuit in the fork. This keeps the fork at the top of its travel, making it harder to compress.

Rotate the lever fully clockwise to lockout the fork. This position is useful in climbing and sprinting situations, but will sag with the rider's weight. The fork will "blowoff" in the event that a big hit is encountered with the fork locked out.

To unlock the fork, simply rotate the lever fully counterclockwise.



The fork may cycle a couple of times after enabling lockout. Once complete lockout is achieved, the fork may continue to move 3 - 5 mm. This is normal and does not affect performance.

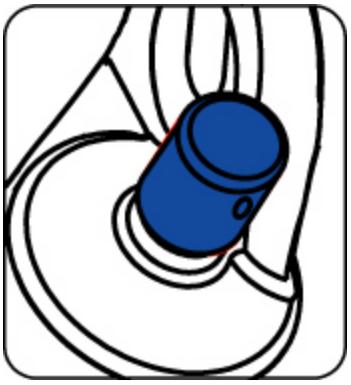
Adjusting Lockout Force

Even when your fork is fully locked out, there are instances when you still want your fork to be active. To protect your fork's internal parts, your FOX fork will "blowoff" when it encounters an intense hit. You can adjust when the fork blows off—lockout force—by adjusting the blue knob on the bottom of the right leg.

A convenient tuning feature of the lockout force knob is that it allows you to leave your fork in the locked out position—no more fiddling with fork controls when the trail requires your undivided attention. Although you might need to adjust the knob a few times to find the sweet spot, once it is found you can simply leave your fork locked out. Your fork will then respond to hits in the trail (greater lockout force), for example, but will be locked out (lower lockout force) when you are out of your saddle on a climb.

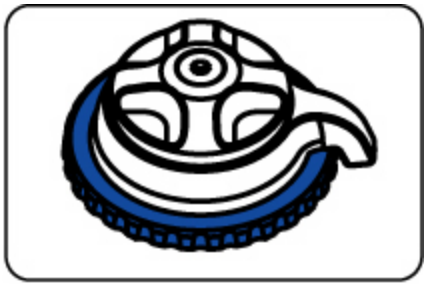
Turn the knob clockwise to increase lockout force and counterclockwise to decrease lockout force.

There are 12 clicks of adjustment. As a starting point, turn the knob all the way clockwise until it stops, then back off one click counterclockwise.



Adjusting Low-Speed Compression

Low-speed compression damping is adjusted with the blue bezel ring (shown below) below the blue lockout lever, and has 8 clicks of adjustment. Compression damping controls the speed at which the fork compresses. Adjust low-speed compression with lockout disabled (lockout lever fully counterclockwise). As a starting point, turn the low-speed compression dial all the way counterclockwise (full out) until it stops, then turn clockwise (in) 5 clicks.



KNOB SETTING (CLICKS IN FROM FULL OUT)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Soft Compression	Too soft and your fork will pack down and ride harsh.	Maximum wheel traction and bump compliance. Too soft and you maybe have excessive brake dive and wallowy feel.

5 (Factory setting)	Average Compression		
 **9**	Firm Compression	Too firm and you will experience poor traction and wheel hop.	Resists brake dive and keeps the fork up in the travel. Too firm and you may have poor traction in loose conditions.

Changing Travel

Travel on your FLOAT fork can be changed by rearranging the internal travel spacers. After changing travel, check the fork for proper operation before riding. If there is noticeable play in the fork or if it makes strange noises, disassemble the fork and check for complete number and correct orientation of spacers.

FLOAT forks can be reduced in travel, but they cannot be increased in travel beyond 140mm.

Tools Required for Travel Change

- 26mm 6-sided socket
- 10mm socket
- Small screwdriver
- Torque wrench
- Oil drain pan
- Plastic-faced hammer
- Measuring container w/ cc or mL increments

Supplies Required for Travel Change

Learn how to use the FOX High Pressure Pump

SUPPLIES REQUIRED		
Quantity	**Part Number**	**Part Name**
1	025-03-004-A	1 qt. bottle of FOX Suspension Fluid (7 wt.)
1	025-03-002-A	5cc Pillow Pack of FOX FLOAT Fluid
2	241-01-002-C	Crush washer
1	803-00-078	32MM Cartridge Seal Kit (optional)

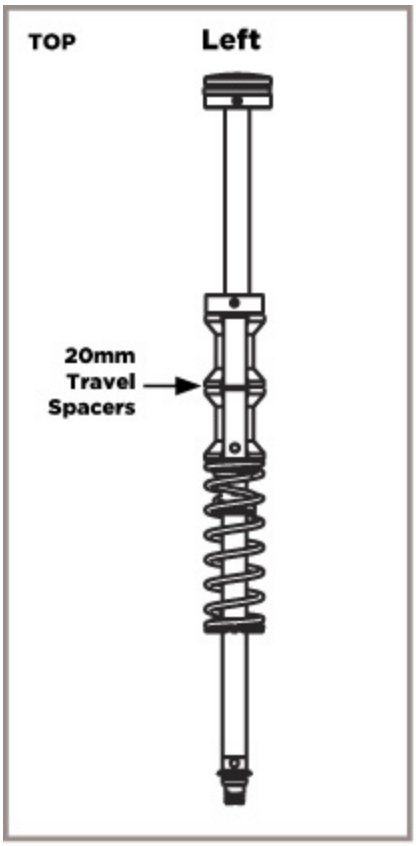
1. Remove the blue air cap from the top of the left fork leg. Let the air out of the fork. Remove the left top cap with a 26mm socket 6-point socket wrench.
2. Loosen the bottom nut 3-4 turns with a 10mm wrench. With a plastic mallet, gently tap the bottom of the shaft to disengage it from the lower leg. Allow oil to drain into a bucket. Remove the bottom nut and crush washer.
3. Compress the fork as much as possible. The air piston will be visible about one inch below the top of the upper tube. Push the bottom of the air shaft upwards to push the air piston out of the top of the upper tube. Use a long, thin shaft screwdriver to push the bottom of the air shaft up through the hole in the bottom of the lower leg.
4. Pull the air-shaft assembly from the fork. Refer to the drawings below and add or remove the appropriate number of 20mm spacer(s) to achieve the desired travel.

Spacers snap onto the air shaft between the negative spring guide and topout plate, as shown in the travel spacer orientation drawing below.

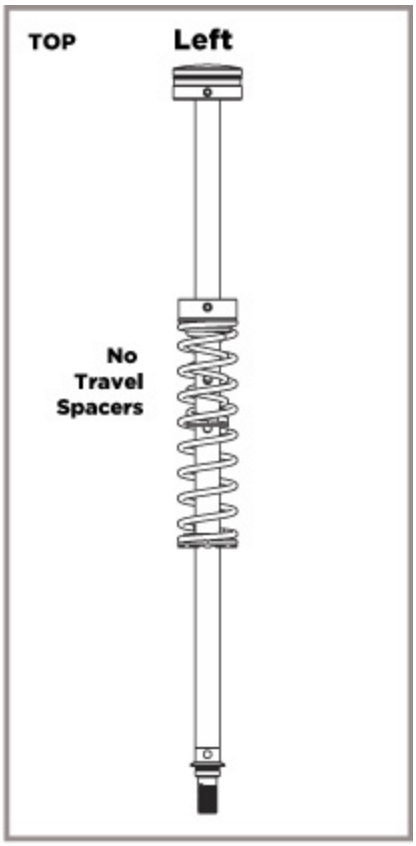
5. Lubricate the U-cup seal on the air piston with FOX FLOAT Fluid and re-install the air shaft assembly into the upper tube. Be sure to orient the U-cup seal as shown in the Seal Orientation drawing below.

6. Push the shaft until it approaches the bottom hole of the fork. Do not push the shaft all the way through the bottom hole.
7. Turn the fork upside down. Measure and pour 30cc of FOX Suspension Fluid through the bottom hole.
8. Push the air shaft assembly up until the shaft comes through the bottom hole. Install the crush washer and bottom nut. Torque to 50 in-lbs.
9. Turn the fork right side up. Pour 5cc of FOX FLOAT Fluid on top of the air piston.
10. Lubricate the o-ring on the air topcap with FOX FLOAT Fluid.
11. Re-install the topcap and torque to 165 in-lbs.
12. Pump up the fork to the desired pressure and cycle it several times to check for proper operation.
13. Re-install the blue air cap.
14. You're done. Go ride.

Travel Spacer Orientation

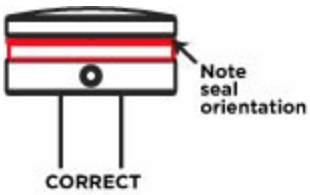


100mm Travel



140mm Travel

Seal Orientation





Ensure that the lip on the air piston seal is at the top.

WHEREVER YOU RIDE.



Bushing Technology & Inspection | Seals & Foam Rings | Control Direction | Oil Volumes | Structural Inspection | Dropout Thickness Inspection | Torque Values | Unit Conversion | Suspension Tuning Tips | Using the Pump | Important Safety Information | Service Intervals | Distributors & Global Service Centers | Contact FOX | Warranty Information

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FLOAT RL

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Locking Out the Fork | Changing Travel | Service Intervals | Important Safety Information



weight	3.81 lbs./1.73 kg
travel	5.5 in. / 140 mm
features/adjustments	lockout, air spring pressure, rebound
spring/damper type	air/open bath
intended use	all-mountain, cross-country
color	FLOAT Gold

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

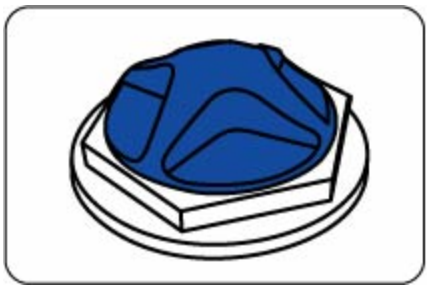
1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust sag. Generally, sag should be set to 15 – 25% of total fork travel.

1. Unscrew the blue aircap (shown below) on top of the left fork leg to expose the Schrader valve.



2. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
3. Using the Air Spring Settings table below, pump your fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
4. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
5. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
6. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
7. Compare your sag measurement to the Sag Setup table below.

   If your sag is lower than on the table, screw on the pump fitting, note the current air pressure setting and depress the black bleed-valve to reduce the gauge pressure by 5 psi. Measure sag again and repeat adjustment, if necessary.

   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
8. Screw the blue aircap back on, and go ride.

AIR SPRING SETTING GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	45 psi
125 - 135 lbs.	50 psi
135 - 145 lbs.	55 psi
145 - 155 lbs.	65 psi
155 - 170 lbs.	75 psi
170 - 185 lbs.	85 psi
185 - 200 lbs.	95 psi
200 - 215 lbs.	105 psi
215 - 230 lbs	115 psi
230 - 250 lbs.	125 psi

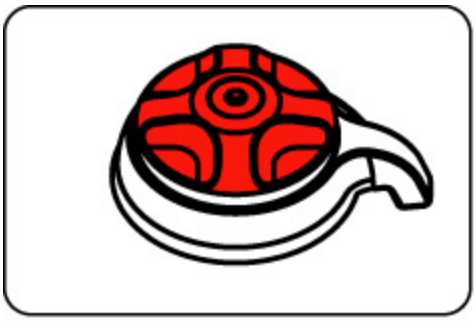
SAG SETUP		
Travel	**XC/Race FIRM**	**All-Mountain PLUSH**
100 mm (4")	15mm (5/8")	25mm (1")
140 mm (5.5")	21mm (7/8")	35mm (1 3/8")

SAG TROUBLESHOOTING	
Symptom	**Remedy**

Too much sag	(+) air pressure in 5psi increments
Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob clockwise slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



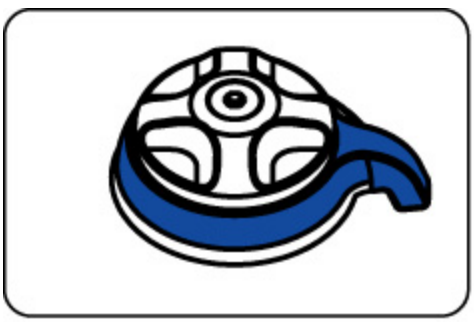
KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Locking Out the Fork

The blue compression lockout lever is located below the red rebound adjuster knob. It allows the rider to close the compression damping circuit in the fork. This keeps the fork at the top of its travel, making it harder to compress.

Rotate the lever fully clockwise to lockout the fork. This position is useful in climbing and sprinting situations, but will sag with the rider's weight. The fork will "blowoff" in the event that a big hit is encountered with the fork locked out.

To unlock the fork, simply rotate the lever fully counterclockwise.



Changing Travel

Travel on your FLOAT fork can be changed by rearranging the internal travel spacers. After changing travel, check the fork for proper operation before riding. If there is noticeable play in the fork or if it makes strange noises, disassemble the fork and check for complete number and correct orientation of spacers.

FLOAT forks can be reduced in travel, but they cannot be increased in travel beyond 140mm.

Tools Required for Travel Change

- 26mm 6-sided socket
- 10mm socket
- Small screwdriver
- Torque wrench
- Oil drain pan
- Plastic-faced hammer
- Measuring container w/ cc or mL increments

Supplies Required for Travel Change

Learn how to use the FOX High Pressure Pump

SUPPLIES REQUIRED		
Quantity	**Part Number**	**Part Name**
1	025-03-004-A	1 qt. bottle of FOX Suspension Fluid (7 wt.)
1	025-03-002-A	5cc Pillow Pack of FOX FLOAT Fluid
2	241-01-002-C	Crush washer
1	803-00-078	32MM Cartridge Seal Kit (optional)

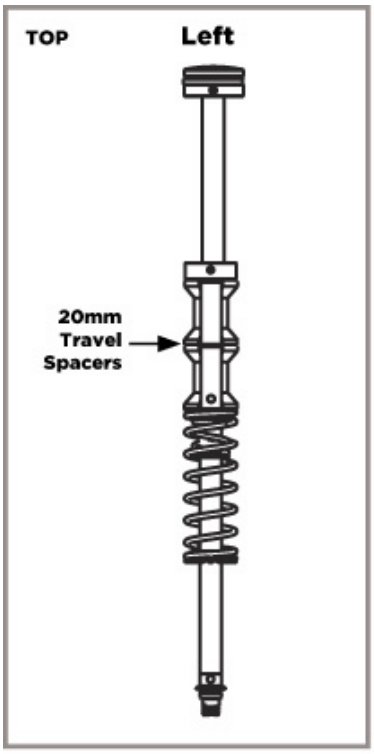
1. Remove the blue air cap from the top of the left fork leg. Let the air out of the fork. Remove the left top cap with a 26mm socket 6-point socket wrench.
2. Loosen the bottom nut 3-4 turns with a 10mm wrench. With a plastic mallet, gently tap the bottom of the shaft to disengage it from the lower leg. Allow oil to drain into a bucket. Remove the bottom nut and crush washer.
3. Compress the fork as much as possible. The air piston will be visible about one inch below the top of the upper tube. Push the bottom of the air shaft upwards to push the air piston out of the top of the upper tube. Use a long, thin shaft screwdriver to push the bottom of the air shaft up through the hole in the bottom of the lower leg.
4. Pull the air-shaft assembly from the fork. Refer to the drawings below and add or remove the appropriate number of 20mm spacer(s) to achieve the desired travel.

Spacers snap onto the air shaft between the negative spring guide and topout plate, as shown in the travel spacer orientation drawing below.

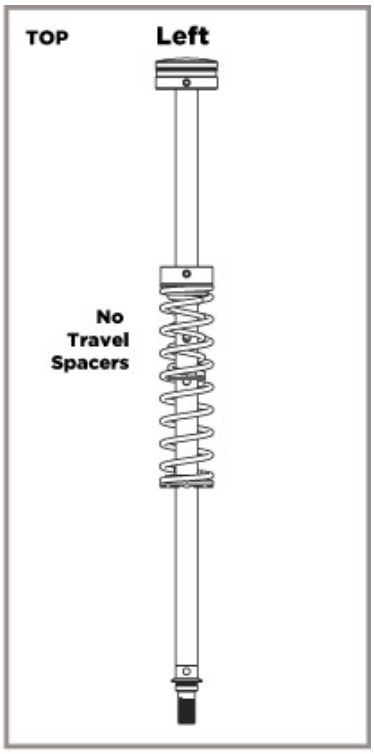
5. Lubricate the U-cup seal on the air piston with FOX FLOAT Fluid and re-install the air shaft assembly into the upper tube. Be sure to orient the U-cup seal as shown in the Seal Orientation drawing below.
6. Push the shaft until it approaches the bottom hole of the fork. Do not push the shaft all the way through the bottom hole.
7. Turn the fork upside down. Measure and pour 30cc of FOX Suspension Fluid through the bottom hole.
8. Push the air shaft assembly up until the shaft comes through the bottom hole. Install the crush washer and bottom nut. Torque to 50 in-lbs.
9. Turn the fork right side up. Pour 5cc of FOX FLOAT Fluid on top of the air piston.
10. Lubricate the o-ring on the air topcap with FOX FLOAT Fluid.
11. Re-install the topcap and torque to 165 in-lbs.
12. Pump up the fork to the desired pressure and cycle it several times to check for proper operation.

13. Re-install the blue air cap.
14. You're done. Go ride.

Travel Spacer Orientation

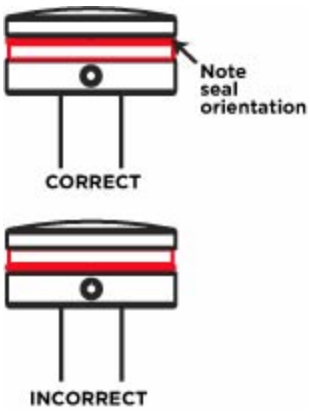


100mm Travel



140mm Travel

Seal Orientation



Ensure that the lip on the air piston seal is at the top.

WHEREVER YOU RIDE.

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FLOAT X

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Adjusting Bump Threshold | Changing Travel | Service Intervals | Important Safety Information



weight	3.85 lbs./1.75 kg
travel	5.1 in. / 130 mm
features/adjustments	air spring pressure, TrailTune, bump threshold, rebound
spring/damper type	air/X damper
intended use	*all-mountain*, *cross-country*
color	FLOAT Gold

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

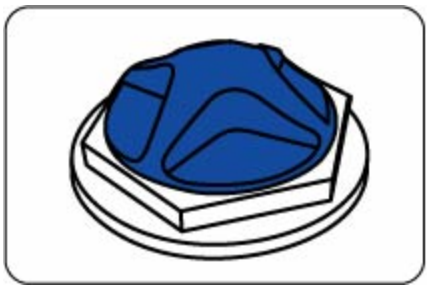
1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust *sag*. Generally, sag should be set to 15 – 25% of total fork travel.

1. Unscrew the blue aircap (shown below) on top of the left fork leg to expose the Schrader valve.



2. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
3. Using the Air Spring Settings table below, pump your fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
4. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
5. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
6. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
7. Compare your sag measurement to the Sag Setup table below.

   If your sag is lower than on the table, screw on the pump fitting, note the current air pressure setting and depress the black bleed-valve to reduce the gauge pressure by 5 psi. Measure sag again and repeat adjustment, if necessary.

   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
8. Screw the blue aircap back on, and go ride.

AIR SPRING SETTING GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	45 psi
125 - 135 lbs.	50 psi
135 - 145 lbs.	55 psi
145 - 155 lbs.	65 psi
155 - 170 lbs.	75 psi
170 - 185 lbs.	85 psi
185 - 200 lbs.	95 psi
200 - 215 lbs.	105 psi
215 - 230 lbs	115 psi
230 - 250 lbs.	125 psi

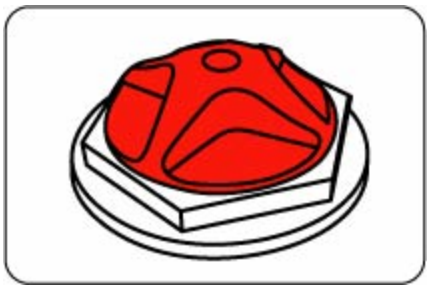
SAG SETUP		
Travel	**XC/Race FIRM**	**All-Mountain PLUSH**
100 mm (4")	15mm (5/8")	25mm (1")
140 mm (5.5")	21mm (7/8")	35mm (1 3/8")

SAG TROUBLESHOOTING	
Symptom	**Remedy**

Too much sag	(+) air pressure in 5psi increments
Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob *clockwise* slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your *spring rate* or air pressure, you will need to slow down your rebound
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Adjusting Bump Threshold

Bump threshold is adjusted with the blue knob located on the bottom of the right fork leg. This gives the rider the ability to adjust the force required to cause the BrassMass valve to open, depending on the bump input from the trail. Turn the knob clockwise to make it harder for the BrassMass valve to open (higher bump threshold), counterclockwise to make it easier for the BrassMass valve to open (lower bump threshold).

There are 22 clicks of adjustment. The factory setting is full out (counterclockwise), then 6 clicks in (clockwise).



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS

 1	Harder	Provides firmest threshold.	Maximum pedaling efficiency with slight loss of slow-speed traction.
6 (Factory setting)	Average		
 22	Easier	Provides low-speed compression damping to filter out rider-induced bob.	Good pedaling efficiency with increased slow-speed traction.

TrailTune

When FOX Racing Shox began to investigate using the patented TerraLogic technology on a longer travel, more trail-oriented fork, the conclusion was reached that what works for the racer does not necessarily work for the trail rider. FOX massaged the compression damping circuitry to allow for a little more low-speed compliance than the full-race oriented lockout on the FX line of forks. With TrailTune, when the Brass Mass is closed and the fork stiffens up, there is still some oil-flow, allowing the fork to move over small impacts, but there is still plenty of low-speed compression damping to filter out rider induced “bob." And, once the going gets rough, the BrassMass valve reacts instantly and the fork works with all the plush, smooth, bump eating precision that FOX forks are famous for.

Changing Travel

Travel on your FLOAT fork can be changed by rearranging the internal travel spacers. After changing travel, check the fork for proper operation before riding. If there is noticeable play in the fork or if it makes strange noises, disassemble the fork and check for complete number and correct orientation of spacers.

FLOAT forks can be reduced in travel, but they cannot be increased in travel beyond 140mm.

Tools Required for Travel Change

- 26mm 6-sided socket
- 10mm socket
- Small screwdriver
- Torque wrench
- Oil drain pan
- Plastic-faced hammer
- Measuring container w/ cc or mL increments

Supplies Required for Travel Change

Learn how to use the FOX High Pressure Pump

SUPPLIES REQUIRED		
Quantity	**Part Number**	**Part Name**
1	025-03-004-A	1 qt. bottle of FOX Suspension Fluid (7 wt.)
1	025-03-002-A	5cc Pillow Pack of FOX FLOAT Fluid
2	241-01-002-C	Crush washer
1	803-00-078	32MM Cartridge Seal Kit (optional)

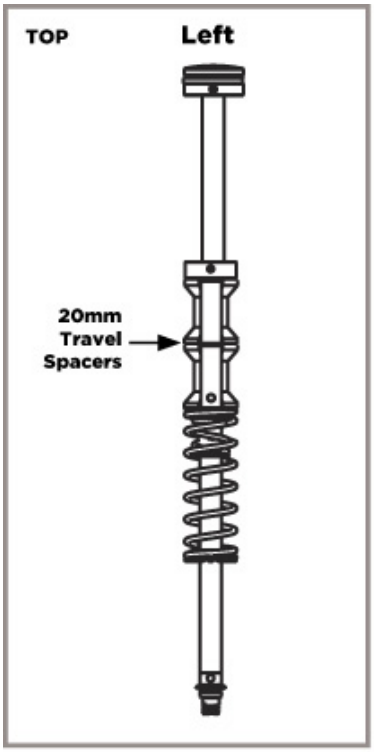
1. Remove the blue air cap from the top of the left fork leg. Let the air out of the fork. Remove the left top cap with a 26mm socket 6-point socket wrench.
2. Loosen the bottom nut 3-4 turns with a 10mm wrench. With a plastic mallet, gently tap the bottom of the shaft to disengage it from the lower leg. Allow oil to drain into a bucket. Remove the bottom nut and crush washer.

3. Compress the fork as much as possible. The air piston will be visible about one inch below the top of the upper tube. Push the bottom of the air shaft upwards to push the air piston out of the top of the upper tube. Use a long, thin shaft screwdriver to push the bottom of the air shaft up through the hole in the bottom of the lower leg.
4. Pull the air-shaft assembly from the fork. Refer to the drawings below and add or remove the appropriate number of 20mm spacer(s) to achieve the desired travel.

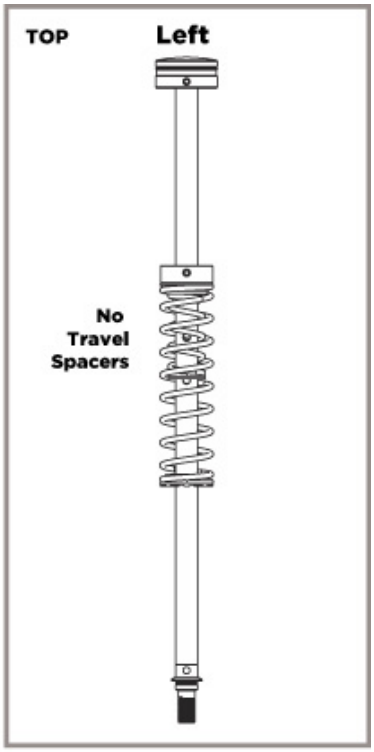
Spacers snap onto the air shaft between the negative spring guide and topout plate, as shown in the travel spacer orientation drawing below.

5. Lubricate the U-cup seal on the air piston with FOX FLOAT Fluid and re-install the air shaft assembly into the upper tube. Be sure to orient the U-cup seal as shown in the Seal Orientation drawing below.
6. Push the shaft until it approaches the bottom hole of the fork. Do not push the shaft all the way through the bottom hole.
7. Turn the fork upside down. Measure and pour 30cc of FOX Suspension Fluid through the bottom hole.
8. Push the air shaft assembly up until the shaft comes through the bottom hole. Install the crush washer and bottom nut. Torque to 50 in-lbs.
9. Turn the fork right side up. Pour 5cc of FOX FLOAT Fluid on top of the air piston.
10. Lubricate the o-ring on the air topcap with FOX FLOAT Fluid.
11. Re-install the topcap and torque to 165 in-lbs.
12. Pump up the fork to the desired pressure and cycle it several times to check for proper operation.
13. Re-install the blue air cap.
14. You're done. Go ride.

Travel Spacer Orientation

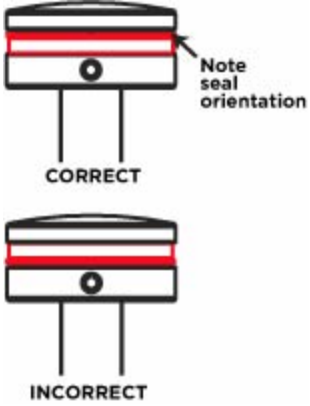


100mm Travel



140mm Travel

Seal Orientation



Ensure that the lip on the air piston seal is at the top.

eng030

WHEREVER YOU RIDE.

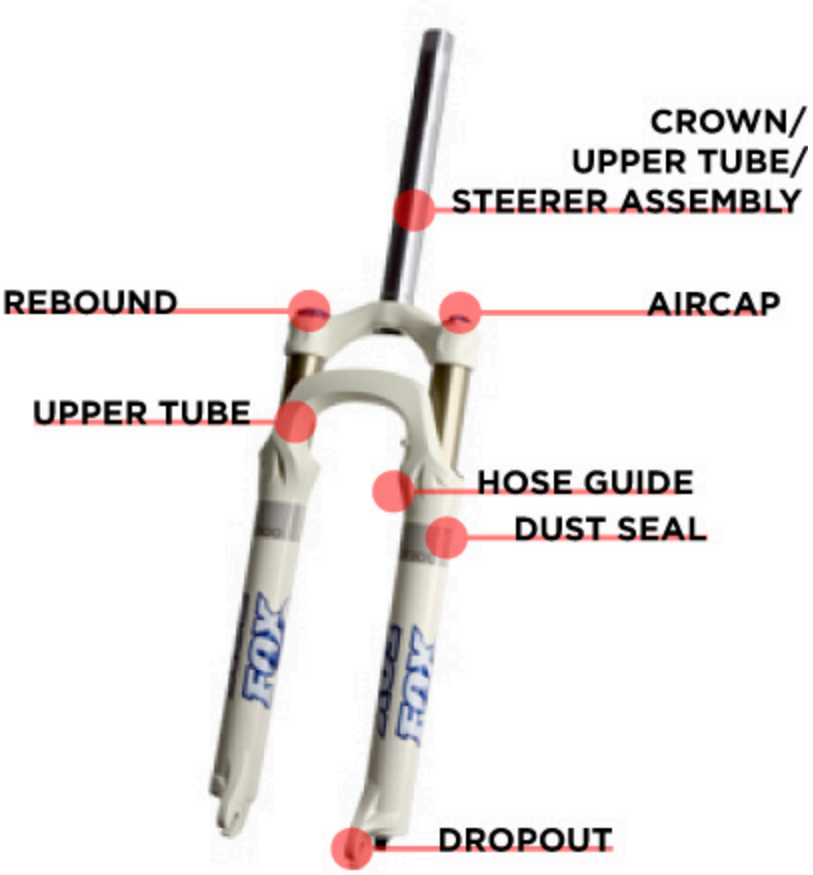
Bushing Technology & Inspection | Seals & Foam Rings | Control Direction | Oil Volumes | Structural Inspection | Dropout Thickness Inspection | Torque Values | Unit Conversion | Suspension Tuning Tips | Using the Pump | Important Safety Information | Service Intervals | Distributors & Global Service Centers | Contact FOX | Warranty Information

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F100R/F80R

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Changing Travel | Service Intervals | Important Safety Information



F100 weight **F80 weight**	3.52lbs./1.60 kg 3.44 lbs./1.56 kg
F100 travel **F80 travel**	3.9 inches / 100 mm 3.1 inches / 80 mm
features/adjustments	air spring pressure, rebound
spring/damper type	air/open bath
intended use	cross-country
color	White Gold

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page. If your fork came pre-installed on your bicycle, continue to the next section, **Adjusting Rebound**.

Before You Ride

1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**

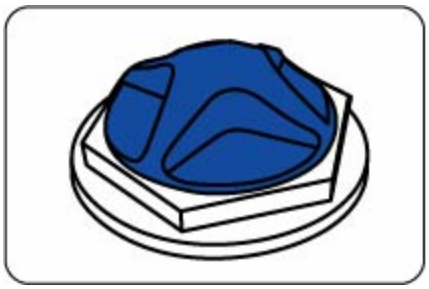
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust sag. Generally, sag should be set to 15 – 25% of total fork travel.

1. Unscrew the blue aircap (shown below) on top of the left fork leg to expose the Schrader valve.



2. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
3. Using the Air Spring Settings table below, pump your fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
4. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
5. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
6. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
7. Compare your sag measurement to the Sag Setup table below.

   If your sag is lower than on the table, screw on the pump fitting, note the current air pressure setting and depress the black bleed-valve to reduce the gauge pressure by 5 psi. Measure sag again and repeat adjustment, if necessary.

   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
8. Screw the blue aircap back on, and go ride.

AIR SPRING SETTING GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	45 psi
125 - 135 lbs.	50 psi
135 - 145 lbs.	55 psi
145 - 155 lbs.	65 psi
155 - 170 lbs.	75 psi
170 - 185 lbs.	85 psi
185 - 200 lbs.	95 psi
200 - 215 lbs.	105 psi
215 - 230 lbs	115 psi
230 - 250 lbs.	125 psi

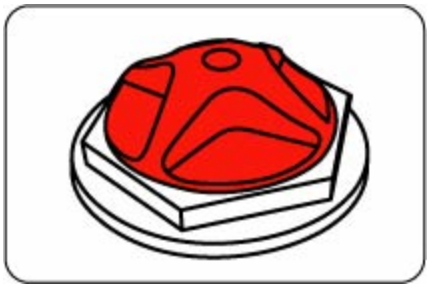
SAG SETUP

Travel	XC/Race FIRM	PLUSH
80 mm (3 1/8")	12mm (1/2")	20mm (3/4")
100 mm (4")	15mm (5/8")	25mm (1")

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	(+) air pressure in 5psi increments
Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob clockwise slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Changing Travel

Travel on your F-SERIES fork can be changed by rearranging the internal travel spacers. After changing travel, check the fork for proper operation before riding. If there is noticeable play in the fork or if it makes strange noises, disassemble the fork and check for complete number and correct orientation of spacers.

An F100 can be lowered in travel to 80mm, but an F80 cannot be increased to 100mm.

Tools Required for Travel Change

- 26mm 6-sided socket
- 10mm socket
- Small screwdriver
- Torque wrench
- Oil drain pan
- Plastic-faced hammer
- Measuring container w/ cc or mL increments

Supplies Required for Travel Change

Learn how to use the FOX High Pressure Pump

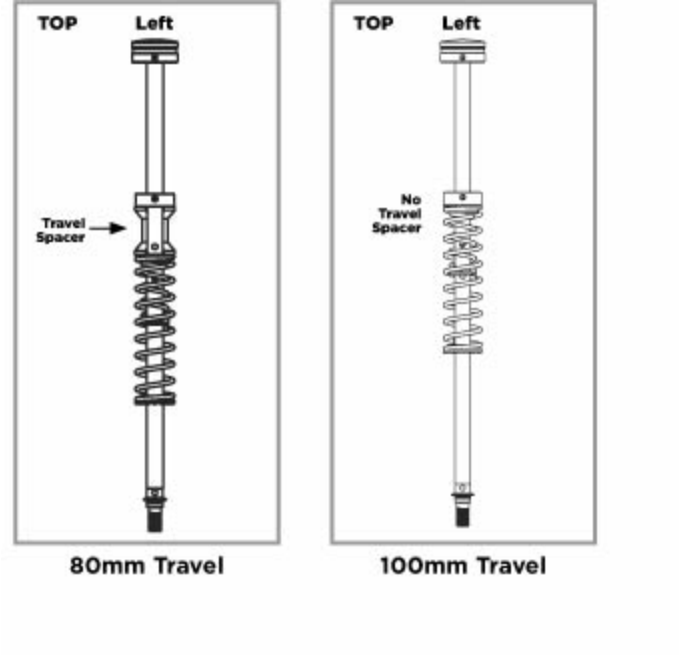
SUPPLIES REQUIRED		
Quantity	**Part Number**	**Part Name**
1	025-03-004-A	1 qt. bottle of FOX Suspension Fluid (7 wt.)
1	025-03-002-A	5cc Pillow Pack of FOX FLOAT Fluid
2	241-01-002-C	Crush washer
1	803-00-078	32MM Cartridge Seal Kit (optional)

1. Remove the blue air cap from the top of the left fork leg. Let the air out of the fork. Remove the left top cap with a 26mm socket 6-point socket wrench.
2. Loosen the bottom nut 3-4 turns with a 10mm wrench. With a plastic mallet, gently tap the bottom of the shaft to disengage it from the lower leg. Allow oil to drain into a bucket. Remove the bottom nut and crush washer.
3. Compress the fork as much as possible. The air piston will be visible about one inch below the top of the upper tube. Push the bottom of the air shaft upwards to push the air piston out of the top of the upper tube. Use a long, thin shaft screwdriver to push the bottom of the air shaft up through the hole in the bottom of the lower leg.
4. Pull the air-shaft assembly from the fork. Refer to the drawings on the next page and add or remove the appropriate spacer(s) to achieve the desired travel.

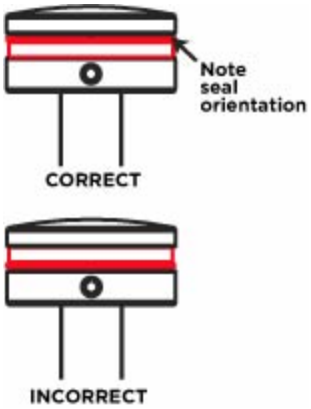
Spacers snap onto the air shaft between the negative spring guide and topout plate, as shown in the travel spacer orientation drawing below.

5. Lubricate the U-cup seal on the air piston with FOX FLOAT Fluid and re-install the air shaft assembly into the upper tube. Be sure to orient the U-cup seal as shown in the Seal Orientation drawing below.
6. Push the shaft until it approaches the bottom hole of the fork. Do not push the shaft all the way through the bottom hole.
7. Turn the fork upside down. Measure and pour 30cc of FOX Suspension Fluid through the bottom hole.
8. Push the air shaft assembly up until the shaft comes through the bottom hole. Install the crush washer and bottom nut. Torque to 50 in-lbs.
9. Turn the fork right side up. Pour 5cc of FOX FLOAT Fluid on top of the air piston.
10. Lubricate the o-ring on the air topcap with FOX FLOAT Fluid.
11. Re-install the topcap and torque to 165 in-lbs.
12. Pump up the fork to the desired pressure and cycle it several times to check for proper operation.
13. Re-install the blue air cap.
14. You’re done. Go ride.

Travel Spacer Orientation



Seal Orientation



eng027

WHEREVER YOU RIDE.

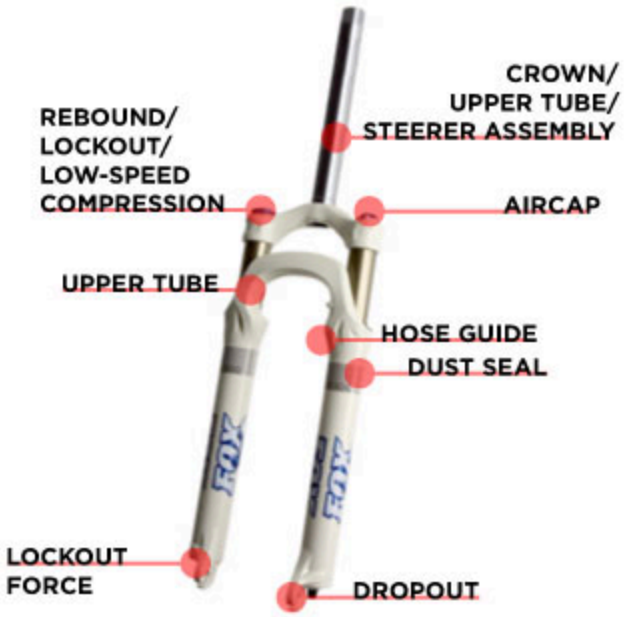
Bushing Technology & Inspection | Seals & Foam Rings | Control Direction | Oil Volumes | Structural Inspection | Dropout Thickness Inspection | Torque Values | Unit Conversion | Suspension Tuning Tips | Using the Pump | Important Safety Information | Service Intervals | Distributors & Global Service Centers | Contact FOX | Warranty Information

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F100RLC/F80RLC

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Locking Out the Fork | Adjusting Lockout Force | Adjusting Low-Speed Compression | Changing Travel | Service Intervals | Important Safety Information



F100 weight **F80 weight**	3.49 lbs./1.58 kg 3.42 lbs./1.55 kg
F100 *travel* **F80 travel**	3.9 inches / 100 mm 3.1 inches / 80 mm
features/adjustments	low-speed compression, lockout, lockout force adjust, air spring pressure, rebound
spring/damper type	air/open bath
intended use	*cross-country*
color	White Gold

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page. If your fork came pre-installed on your bicycle, continue to the next section, **Adjusting Rebound**.

Before You Ride

1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.

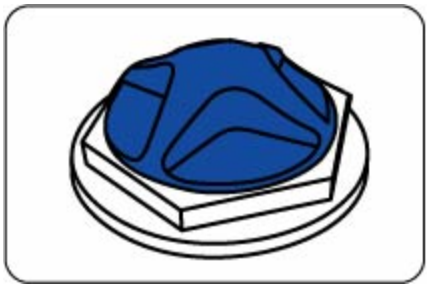
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust *sag*. Generally, sag should be set to 15 – 25% of total fork travel.

1. Unscrew the blue aircap (shown below) on top of the left fork leg to expose the Schrader valve.



2. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
3. Using the Air Spring Settings table below, pump your fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
4. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
5. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
6. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
7. Compare your sag measurement to the Sag Setup table below.

   If your sag is lower than on the table, screw on the pump fitting, note the current air pressure setting and depress the black bleed-valve to reduce the gauge pressure by 5 psi. Measure sag again and repeat adjustment, if necessary.

   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
8. Screw the blue aircap back on, and go ride.

AIR SPRING SETTING GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	45 psi
125 - 135 lbs.	50 psi
135 - 145 lbs.	55 psi
145 - 155 lbs.	65 psi
155 - 170 lbs.	75 psi
170 - 185 lbs.	85 psi
185 - 200 lbs.	95 psi
200 - 215 lbs.	105 psi
215 - 230 lbs	115 psi
230 - 250 lbs.	125 psi

SAG SETUP		
Travel	**XC/Race FIRM**	**PLUSH**
80 mm (3 1/8")	12mm (1/2")	20mm (3/4")

100 mm (4")	15mm (5/8")	25mm (1")

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	(+) air pressure in 5psi increments
Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob *clockwise* slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your *spring rate* or air pressure, you will need to slow down your rebound
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Locking Out the Fork

The blue compression lockout lever is located below the red rebound adjuster knob. It allows the rider to close the compression damping circuit in the fork. This keeps the fork at the top of its travel, making it harder to compress.

Rotate the lever fully clockwise to lockout the fork. This position is useful in climbing and sprinting situations, but will sag with the rider's weight. The fork will "blowoff" in the event that a big hit is encountered with the fork locked out.

To unlock the fork, simply rotate the lever fully counterclockwise.



The fork may cycle a couple of times after enabling lockout. Once complete lockout is achieved, the fork may continue to move 3 - 5 mm. This is normal and does not affect performance.

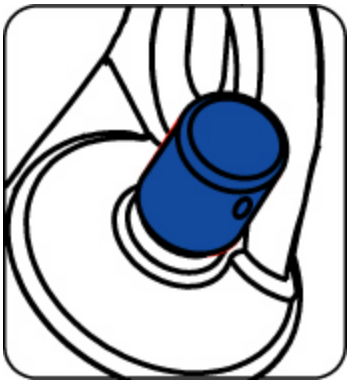
Adjusting Lockout Force

Even when your fork is fully locked out, there are instances when you still want your fork to be active. To protect your fork's internal parts, your FOX fork will "blowoff" when it encounters an intense hit. You can adjust when the fork blows off—lockout force—by adjusting the blue knob on the bottom of the right leg.

A convenient tuning feature of the lockout force knob is that it allows you to leave your fork in the locked out position—no more fiddling with fork controls when the trail requires your undivided attention. Although you might need to adjust the knob a few times to find the sweet spot, once it is found you can simply leave your fork locked out. Your fork will then respond to hits in the trail (greater lockout force), for example, but will be locked out (lower lockout force) when you are out of your saddle on a climb.

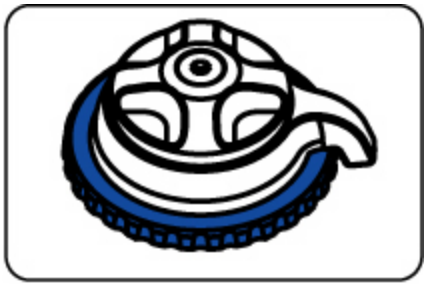
Turn the knob clockwise to increase lockout force and counterclockwise to decrease lockout force.

There are 12 clicks of adjustment. As a starting point, turn the knob all the way clockwise until it stops, then back off one click counterclockwise.



Adjusting Low-Speed Compression

Low-speed compression damping is adjusted with the blue bezel ring (shown below) below the blue lockout lever, and has 8 clicks of adjustment. Compression damping controls the speed at which the fork compresses. Adjust low-speed compression with lockout disabled (lockout lever fully counterclockwise). As a starting point, turn the low-speed compression dial all the way counterclockwise (full out) until it stops, then turn clockwise (in) 5 clicks.



KNOB SETTING (CLICKS IN FROM FULL OUT)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Soft Compression	Too soft and your fork will pack down and ride harsh.	Maximum wheel traction and bump compliance. Too soft and you maybe have excessive brake dive and wallowy feel.

5 (Factory setting)	Average Compression		
 **9**	Firm Compression	Too firm and you will experience poor traction and wheel hop.	Resists brake dive and keeps the fork up in the travel. Too firm and you may have poor traction in loose conditions.

Changing Travel

Travel on your F-SERIES fork can be changed by rearranging the internal travel spacers. After changing travel. check the fork for proper operation before riding. If there is noticeable play in the fork or if it makes strange noises, disassemble the fork and check for complete number and correct orientation of spacers.

An F100 can be lowered in travel to 80mm, but an F80 cannot be increased to 100mm.

Tools Required for Travel Change

- 26mm 6-sided socket
- 10mm socket
- Small screwdriver
- Torque wrench
- Oil drain pan
- Plastic-faced hammer
- Measuring container w/ cc or mL increments

Supplies Required for Travel Change

Learn how to use the FOX High Pressure Pump

SUPPLIES REQUIRED		
Quantity	**Part Number**	**Part Name**
1	025-03-004-A	1 qt. bottle of FOX Suspension Fluid (7 wt.)
1	025-03-002-A	5cc Pillow Pack of FOX *FLOAT* Fluid
2	241-01-002-C	Crush washer
1	803-00-078	32MM Cartridge Seal Kit (optional)

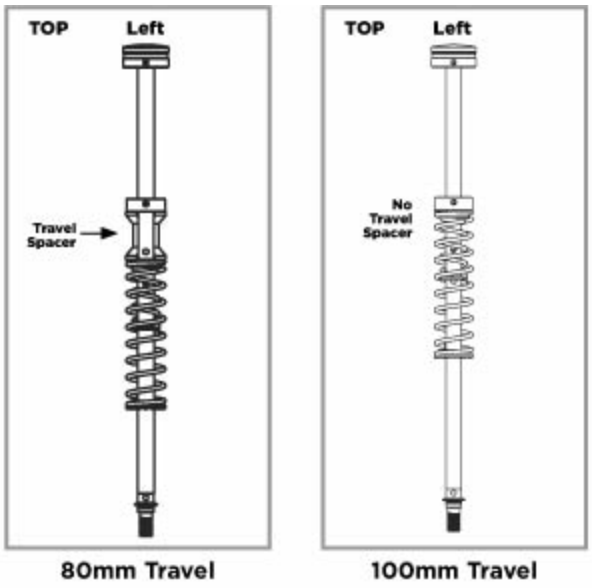
1. Remove the blue air cap from the top of the left fork leg. Let the air out of the fork. Remove the left top cap with a 26mm socket 6-point socket wrench.
2. Loosen the bottom nut 3-4 turns with a 10mm wrench. With a plastic mallet, gently tap the bottom of the shaft to disengage it from the lower leg. Allow oil to drain into a bucket. Remove the bottom nut and crush washer.
3. Compress the fork as much as possible. The air piston will be visible about one inch below the top of the upper tube. Push the bottom of the air shaft upwards to push the air piston out of the top of the upper tube. Use a long, thin shaft screwdriver to push the bottom of the air shaft up through the hole in the bottom of the lower leg.
4. Pull the air-shaft assembly from the fork. Refer to the drawings on the next page and add or remove the appropriate spacer(s) to achieve the desired travel.

Spacers snap onto the air shaft between the negative spring guide and topout plate, as shown in the travel spacer orientation drawing below.

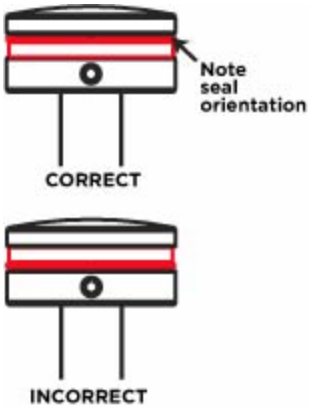
5. Lubricate the U-cup seal on the air piston with FOX FLOAT Fluid and re-install the air shaft assembly into the upper tube. Be sure to orient the U-cup seal as shown in the Seal Orientation drawing below.
6. Push the shaft until it approaches the bottom hole of the fork. Do not push the shaft all the way through the bottom hole.

7. Turn the fork upside down. Measure and pour 30cc of FOX Suspension Fluid through the bottom hole.
8. Push the air shaft assembly up until the shaft comes through the bottom hole. Install the crush washer and bottom nut. Torque to 50 in-lbs.
9. Turn the fork right side up. Pour 5cc of FOX FLOAT Fluid on top of the air piston.
10. Lubricate the o-ring on the air topcap with FOX FLOAT Fluid.
11. Re-install the topcap and torque to 165 in-lbs.
12. Pump up the fork to the desired pressure and cycle it several times to check for proper operation.
13. Re-install the blue air cap.
14. You're done. Go ride.

Travel Spacer Orientation



Seal Orientation



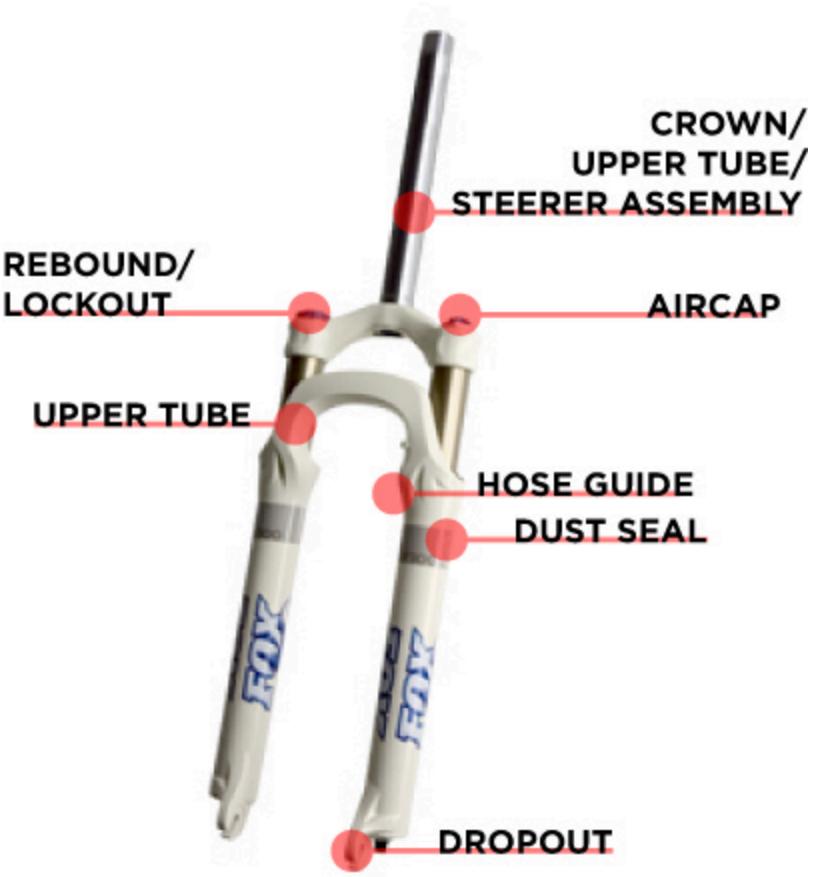
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F100RL/F80RL

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Locking Out the Fork | Changing Travel | Service Intervals | Important Safety Information



F100 weight **F80 weight**	3.48 lbs./1.58 kg 3.42 lbs./1.55 kg
F100 travel **F80 travel**	3.9 inches / 100 mm 3.1 inches / 80 mm
features/adjustments	lockout, air spring pressure, rebound
spring/damper type	air/open bath
intended use	cross-country
color	White Gold

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page. If your fork came pre-installed on your bicycle, continue to the next section, **Adjusting Rebound**.

Before You Ride

1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**

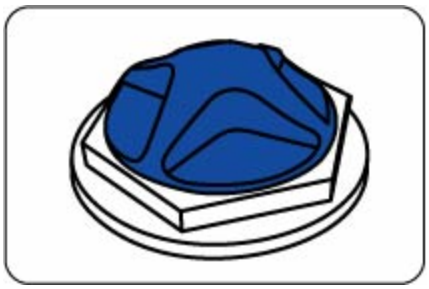
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust sag. Generally, sag should be set to 15 – 25% of total fork travel.

1. Unscrew the blue aircap (shown below) on top of the left fork leg to expose the Schrader valve.



2. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
3. Using the Air Spring Settings table below, pump your fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
4. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
5. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
6. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
7. Compare your sag measurement to the Sag Setup table below.

   If your sag is lower than on the table, screw on the pump fitting, note the current air pressure setting and depress the black bleed-valve to reduce the gauge pressure by 5 psi. Measure sag again and repeat adjustment, if necessary.

   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
8. Screw the blue aircap back on, and go ride.

AIR SPRING SETTING GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	45 psi
125 - 135 lbs.	50 psi
135 - 145 lbs.	55 psi
145 - 155 lbs.	65 psi
155 - 170 lbs.	75 psi
170 - 185 lbs.	85 psi
185 - 200 lbs.	95 psi
200 - 215 lbs.	105 psi
215 - 230 lbs	115 psi
230 - 250 lbs.	125 psi

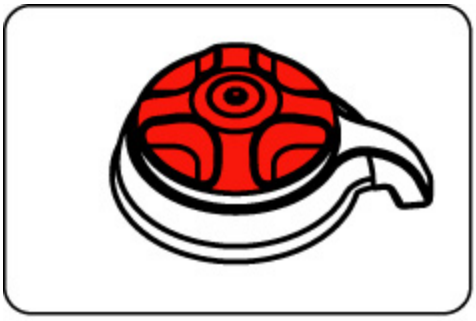
SAG SETUP

Travel	XC/Race FIRM	PLUSH
80 mm (3 1/8")	12mm (1/2")	20mm (3/4")
100 mm (4")	15mm (5/8")	25mm (1")

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	(+) air pressure in 5psi increments
Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob clockwise slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Locking Out the Fork

The blue compression lockout lever is located below the red rebound adjuster knob. It allows the rider to close the compression damping circuit in the fork. This keeps the fork at the top of its travel, making it harder to compress.

Rotate the lever fully clockwise to lockout the fork. This position is useful in climbing and sprinting situations, but will sag with the rider's weight. The fork will "blowoff" in the event that a big hit is encountered with the fork locked out.

To unlock the fork, simply rotate the lever fully counterclockwise.



Changing Travel

Travel on your F-SERIES fork can be changed by rearranging the internal travel spacers. After changing travel, check the fork for proper operation before riding. If there is noticeable play in the fork or if it makes strange noises, disassemble the fork and check for complete number and correct orientation of spacers.

An F100 can be lowered in travel to 80mm, but an F80 cannot be increased to 100mm.

Tools Required for Travel Change

- 26mm 6-sided socket
- 10mm socket
- Small screwdriver
- Torque wrench
- Oil drain pan
- Plastic-faced hammer
- Measuring container w/ cc or mL increments

Supplies Required for Travel Change

Learn how to use the FOX High Pressure Pump

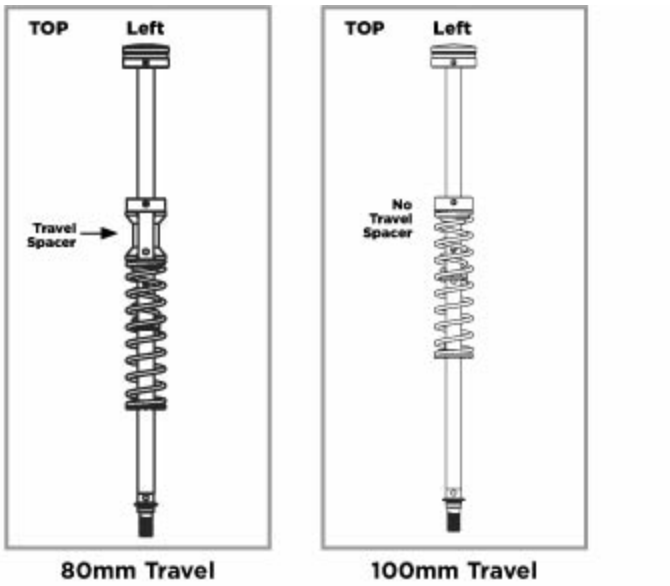
SUPPLIES REQUIRED		
Quantity	**Part Number**	**Part Name**
1	025-03-004-A	1 qt. bottle of FOX Suspension Fluid (7 wt.)
1	025-03-002-A	5cc Pillow Pack of FOX FLOAT Fluid
2	241-01-002-C	Crush washer
1	803-00-078	32MM Cartridge Seal Kit (optional)

1. Remove the blue air cap from the top of the left fork leg. Let the air out of the fork. Remove the left top cap with a 26mm socket 6-point socket wrench.
2. Loosen the bottom nut 3-4 turns with a 10mm wrench. With a plastic mallet, gently tap the bottom of the shaft to disengage it from the lower leg. Allow oil to drain into a bucket. Remove the bottom nut and crush washer.
3. Compress the fork as much as possible. The air piston will be visible about one inch below the top of the upper tube. Push the bottom of the air shaft upwards to push the air piston out of the top of the upper tube. Use a long, thin shaft screwdriver to push the bottom of the air shaft up through the hole in the bottom of the lower leg.
4. Pull the air-shaft assembly from the fork. Refer to the drawings on the next page and add or remove the appropriate spacer(s) to achieve the desired travel.

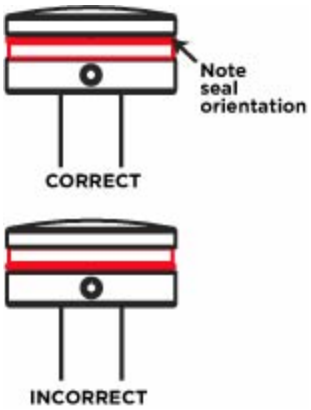
Spacers snap onto the air shaft between the negative spring guide and topout plate, as shown in the travel spacer orientation drawing below.

5. Lubricate the U-cup seal on the air piston with FOX FLOAT Fluid and re-install the air shaft assembly into the upper tube. Be sure to orient the U-cup seal as shown in the Seal Orientation drawing below.
6. Push the shaft until it approaches the bottom hole of the fork. Do not push the shaft all the way through the bottom hole.
7. Turn the fork upside down. Measure and pour 30cc of FOX Suspension Fluid through the bottom hole.
8. Push the air shaft assembly up until the shaft comes through the bottom hole. Install the crush washer and bottom nut. Torque to 50 in-lbs.
9. Turn the fork right side up. Pour 5cc of FOX FLOAT Fluid on top of the air piston.
10. Lubricate the o-ring on the air topcap with FOX FLOAT Fluid.
11. Re-install the topcap and torque to 165 in-lbs.
12. Pump up the fork to the desired pressure and cycle it several times to check for proper operation.
13. Re-install the blue air cap.
14. You're done. Go ride.

Travel Spacer Orientation



Seal Orientation



WHEREVER YOU RIDE.



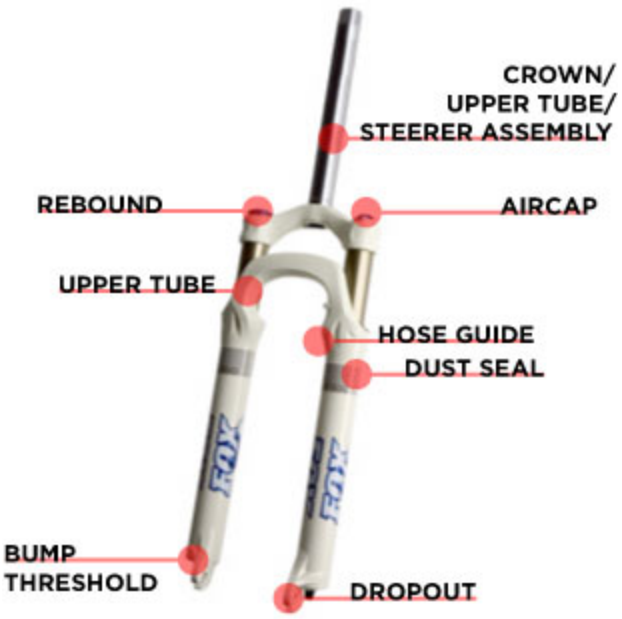
Bushing Technology & Inspection | Seals & Foam Rings | Control Direction | Oil Volumes | Structural Inspection | Dropout Thickness Inspection | Torque Values | Unit Conversion | Suspension Tuning Tips | Using the Pump | Important Safety Information | Service Intervals | Distributors & Global Service Centers | Contact FOX | Warranty Information

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F100X/F80X

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Adjusting Bump Threshold | Changing Travel | Service Intervals | Important Safety Information



F100 weight **F80 weight**	3.49 lbs./1.58 kg 3.43 lbs./1.56 kg
F100 *travel* **F80 travel**	3.9 inches / 100 mm 3.1 inches / 80 mm
features/adjustments	air spring pressure, rebound, bump threshold
spring/damper type	air/X damper
intended use	*cross-country*
color	White Gold

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

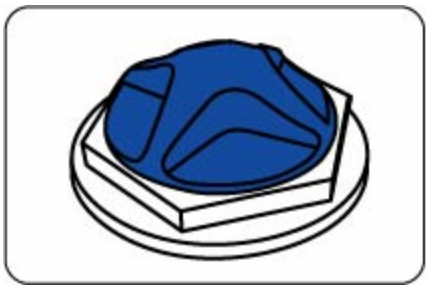
1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust *sag*. Generally, sag should be set to 15 – 25% of total fork travel.

1. Unscrew the blue aircap (shown below) on top of the left fork leg to expose the Schrader valve.



2. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
3. Using the Air Spring Settings table below, pump your *FLOAT* fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
4. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
5. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
6. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
7. Compare your sag measurement to the Sag Setup table below.

   If your sag is lower than on the table, screw on the pump fitting, note the current air pressure setting and depress the black bleed-valve to reduce the gauge pressure by 5 psi. Measure sag again and repeat adjustment, if necessary.

   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
8. Screw the blue aircap back on, and go ride.

AIR SPRING SETTINGS GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	45 psi
125 - 135 lbs.	50 psi
135 - 145 lbs.	55 psi
145 - 155 lbs.	65 psi
155 - 170 lbs.	75 psi
170 - 185 lbs.	85 psi
185 - 200 lbs.	95 psi
200 - 215 lbs.	105 psi
215 - 230 lbs	115 psi
230 - 250 lbs.	125 psi

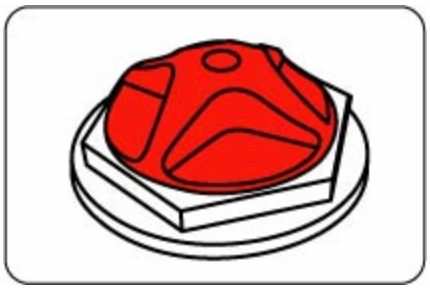
SAG SETUP		
Travel	**XC/Race FIRM**	**PLUSH**
80 mm (3 1/8")	12mm (1/2")	20mm (3/4")
100 mm (4")	15mm (5/8")	25mm (1")

SAG TROUBLESHOOTING	
Symptom	**Remedy**

Too much sag	(+) air pressure in 5psi increments
Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob *clockwise* slows down rebound; turning the knob *counterclockwise* speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your *spring rate* or air pressure, you will need to slow down your rebound
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Adjusting Bump Threshold

Bump threshold is adjusted with the blue knob located on the bottom of the right fork leg. This gives the rider the ability to adjust the force required to cause the BrassMass valve to open, depending on the bump input from the trail. Turn the knob clockwise to make it harder for the BrassMass valve to open (higher bump threshold), counterclockwise to make it easier for the BrassMass valve to open (lower bump threshold).

There are 22 clicks of adjustment. The factory setting is full out (counterclockwise), then 6 clicks in (clockwise).



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS

 1	Harder	Provides firmest threshold.	Maximum pedaling efficiency with slight loss of slow-speed traction.
6 (Factory setting)	Average		
 22	Easier	Provides low-speed compression damping to filter out rider-induced bob.	Good pedaling efficiency with increased slow-speed traction.

Changing Travel

Travel on your F100 fork can be lowered to 80mm by rearranging the internal travel spacers. After changing travel, check the fork for proper operation before riding. If there is noticeable play in the fork or if it makes strange noises, disassemble the fork and check for complete number and correct orientation of spacers.

An F100 can be lowered in travel to 80mm, but an F80 cannot be increased to 100mm.

Tools Required for Travel Change

- 26mm 6-sided socket
- 10mm socket
- Small screwdriver
- Torque wrench
- Oil drain pan
- Plastic-faced hammer
- Measuring container w/ cc or mL increments

Supplies Required for Travel Change

Learn how to use the FOX High Pressure Pump

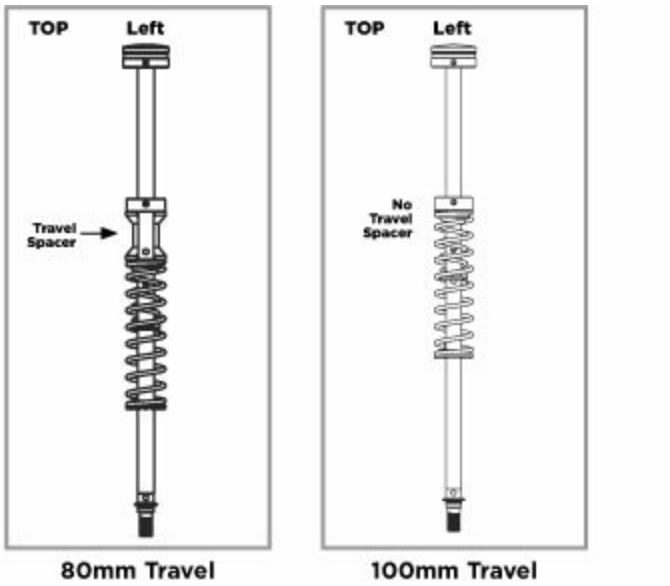
SUPPLIES REQUIRED		
Quantity	**Part Number**	**Part Name**
1	025-03-004-A	1 qt. bottle of FOX Suspension Fluid (7 wt.)
1	025-03-002-A	5cc Pillow Pack of FOX FLOAT Fluid
2	241-01-002-C	Crush washer
1	803-00-078	32MM Cartridge Seal Kit (optional)

1. Remove the blue air cap from the top of the left fork leg. Let the air out of the fork. Remove the left top cap with a 26mm socket 6-point socket wrench.
2. Loosen the bottom nut 3-4 turns with a 10mm wrench. With a plastic mallet, gently tap the bottom of the shaft to disengage it from the lower leg. Allow oil to drain into a bucket. Remove the bottom nut and crush washer.
3. Compress the fork as much as possible. The air piston will be visible about one inch below the top of the upper tube. Push the bottom of the air shaft upwards to push the air piston out of the top of the upper tube. Use a long, thin shaft screwdriver to push the bottom of the air shaft up through the hole in the bottom of the lower leg.
4. Pull the air-shaft assembly from the fork. Refer to the drawings below and add or remove the appropriate spacer to achieve the desired travel.

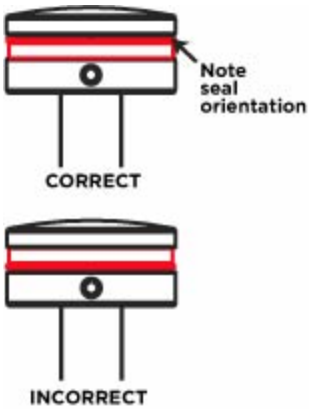
Spacers snap onto the air shaft between the negative spring guide and topout plate, as shown in the travel spacer orientation drawing below.

5. Lubricate the U-cup seal on the air piston with FOX FLOAT Fluid and re-install the air shaft assembly into the upper tube. Be sure to orient the U-cup seal as shown in the Seal Orientation drawing below.
6. Push the shaft until it approaches the bottom hole of the fork. Do not push the shaft all the way through the bottom hole.
7. Turn the fork upside down. Measure and pour 30cc of FOX Suspension Fluid through the bottom hole.
8. Push the air shaft assembly up until the shaft comes through the bottom hole. Install the crush washer and bottom nut. Torque to 50 in-lbs.
9. Turn the fork right side up. Pour 5cc of FOX FLOAT Fluid on top of the air piston.
10. Lubricate the o-ring on the air topcap with FOX FLOAT Fluid.
11. Re-install the topcap and torque to 165 in-lbs.
12. Pump up the fork to the desired pressure and cycle it several times to check for proper operation.
13. Re-install the blue air cap.
14. You're done. Go ride.

Travel Spacer Orientation



Seal Orientation



WHEREVER YOU RIDE.



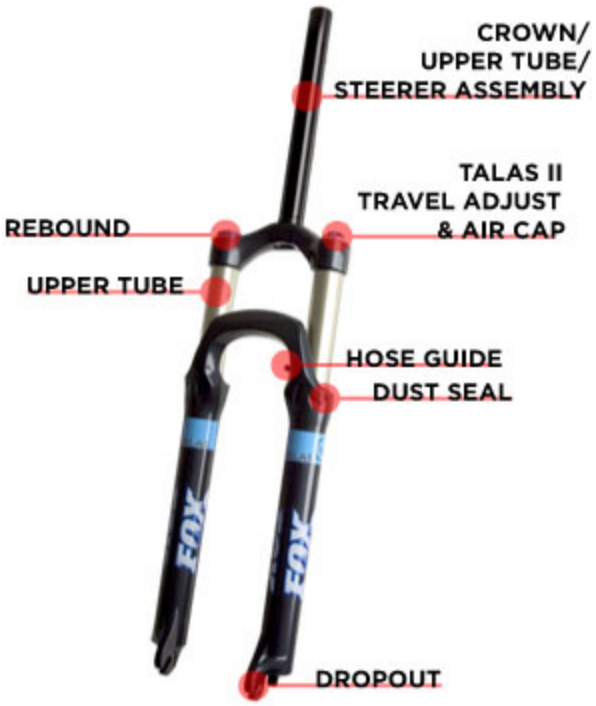
Bushing Technology & Inspection | Seals & Foam Rings | Control Direction | Oil Volumes | Structural Inspection | Dropout Thickness Inspection | Torque Values | Unit Conversion | Suspension Tuning Tips | Using the Pump | Important Safety Information | Service Intervals | Distributors & Global Service Centers | Contact FOX | Warranty Information

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TALAS R

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Changing Travel | Service Intervals | Important Safety Information



weight	4.018 lbs./1.82 kg
travel	5.5 in. / 140 mm TALAS 140+120+100 mm
features/adjustments	TALAS II travel system, air spring pressure, rebound
spring/damper type	air/open bath
intended use	all-mountain, cross-country
color	TALAS Blue

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

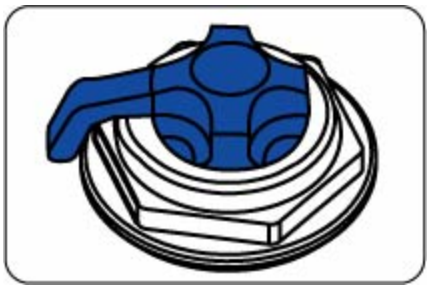
Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust sag. Generally, sag should be set to 15 – 25% of total fork travel.

1. Unscrew the center blue aircap in the middle of the TALAS lever (shown below) on top of the left fork leg to expose the Schrader valve.

   Hold the TALAS lever steady with one hand while unscrewing the aircap with the other. This will facilitate removal of the aircap and also protect the TALAS lever from being forced past its stops.

2. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
3. Using the Air Spring Settings table below, pump your fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
4. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
5. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
6. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
7. Compare your sag measurement to the Sag Setup table below.

   If your sag is lower than on the table, screw on the pump fitting, note the current air pressure setting and depress the black bleed-valve to reduce the gauge pressure by 5 psi. Measure sag again and repeat adjustment, if necessary.

   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
8. Screw the blue aircap back on, and go ride.

AIR SPRING SETTING GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	50 psi
125 - 135 lbs.	55 psi
135 - 145 lbs.	60 psi
145 - 155 lbs.	65 psi
155 - 170 lbs.	70 psi
170 - 185 lbs.	80 psi
185 - 200 lbs.	90 psi
200 - 215 lbs.	100 psi
215 - 230 lbs	115 psi
230 - 250 lbs.	125 psi

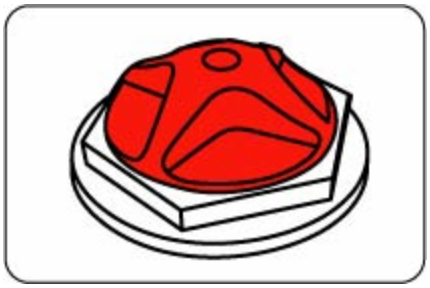
SAG SETUP		
Travel	**XC/Race FIRM**	**All-Mountain PLUSH**
100 mm (4")	15mm (1/2")	20mm (3/4")
120 mm (4.75")	18mm (3/4")	30mm (1 1/8")
140 mm (5.5")	21mm (7/8")	35mm (1 3/8")

Sag and *spring rate* will self adjust to the proper setting and rate as TALAS is adjusted to shorter travel positions.

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	(+) air pressure in 5psi increments
Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob clockwise slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



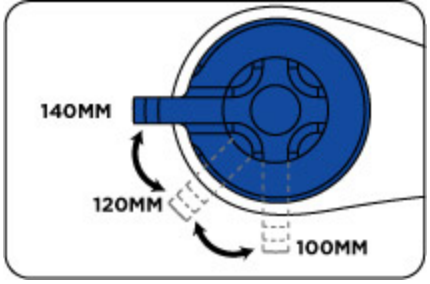
KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound.
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Changing Travel

32MM TALAS forks feature three externally adjustable travel choices from 5.5” (140mm) to 4.75" (120mm) to 4” (100mm), which are easily selected using the TALAS lever (shown below) on top of the left fork leg. Travel options and direction settings are printed directly on the lever.

When changing travel, the TALAS II system automatically adjusts to provide you with the appropriate linear air spring rate for each travel setting. There is no need to re-adjust the air pressure in the TALAS air chamber after changing travel.





For safety reasons, it is recommended that travel adjustment be done while off the bike. If necessary, travel can be adjusted on-the-fly (be careful when using this "extreme" travel adjusting method), which can be handy right before a grueling climb or steep descent.

Decreasing Travel

From the 140 or 120 mm position, turn the lever counterclockwise to decrease travel. Travel will be decreased in 20mm increments. Do not force the lever past the 100mm position.

Increasing Travel

From the 100 or 120 mm position, turn the lever clockwise to increase travel. Travel will be increased in 20mm increments. Do not force the lever past the 140mm position.

WHEREVER YOU RIDE.

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TALAS RLC

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Locking Out the Fork | Adjusting Lockout Force | Adjusting Low-Speed Compression | Changing Travel | Service Intervals | Important Safety Information



weight	3.99 lbs./1.81 kg
travel	5.5 in. / 140 mm TALAS 140+120+100 mm
features/adjustments	TALAS II travel system, low-speed compression, lockout, lockout force adjust, air spring pressure, rebound
spring/damper type	air/open bath
intended use	*all-mountain*, *cross-country*
color	TALAS Blue

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturers recommendations.

5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

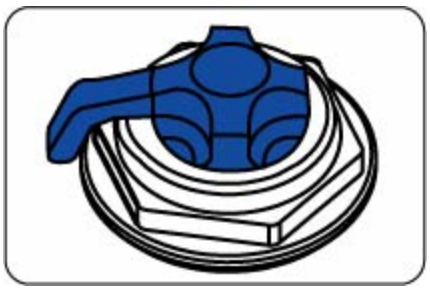
Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust *sag*. Generally, sag should be set to 15 25% of total fork travel.

1. Unscrew the center blue aircap in the middle of the TALAS lever (shown below) on top of the left fork leg to expose the Schrader valve.

   Hold the TALAS lever steady with one hand while unscrewing the aircap with the other. This will facilitate removal of the aircap and also protect the TALAS lever from being forced past its stops.

2. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
3. Using the Air Spring Settings table below, pump your fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
4. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
5. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
6. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
7. Compare your sag measurement to the Sag Setup table below.

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   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
8. Screw the blue aircap back on, and go ride.

AIR SPRING SETTING GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	50 psi
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135 - 145 lbs.	60 psi
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185 - 200 lbs.	90 psi
200 - 215 lbs.	100 psi
215 - 230 lbs	115 psi
230 - 250 lbs.	125 psi

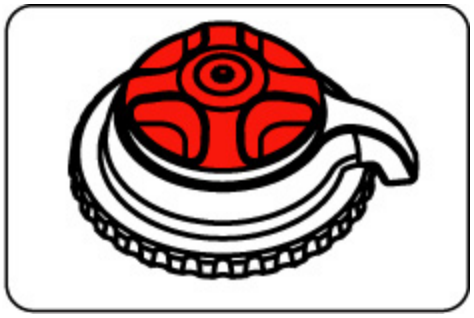
SAG SETUP		
Travel	**XC/Race FIRM**	**All-Mountain PLUSH**
100 mm (4")	15mm (1/2")	20mm (3/4")
120 mm (4.75")	18mm (3/4")	30mm (1 1/8")
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Sag and *spring rate* will self adjust to the proper setting and rate as TALAS is adjusted to shorter travel positions.

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	(+) air pressure in 5psi increments
Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob *clockwise* slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



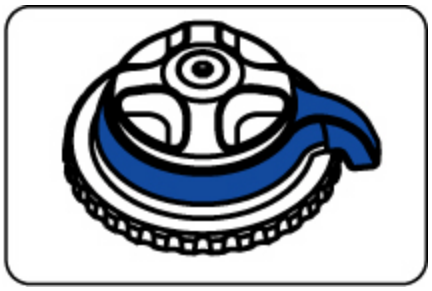
KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound.
6 (Factory setting)	**Average Rebound**		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Locking Out the Fork

The blue compression lockout lever is located below the red rebound adjuster knob. It allows the rider to close the compression damping circuit in the fork. This keeps the fork at the top of its travel, making it harder to compress.

Rotate the lever fully clockwise to lockout the fork. This position is useful in climbing and sprinting situations, but will sag with the riders weight. The fork will "blowoff" in the event that a big hit is encountered with the fork locked out.

To unlock the fork, simply rotate the lever fully counterclockwise.



The fork may cycle a couple of times after enabling lockout. Once complete lockout is achieved, the fork may continue to move 3 - 5 mm. This is normal and does not affect performance.

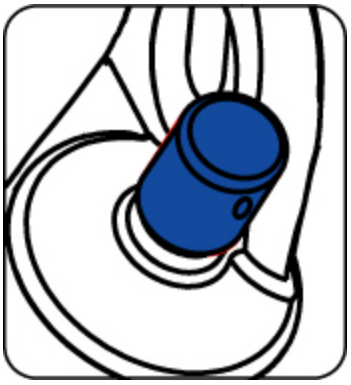
Adjusting Lockout Force

Even when your fork is fully locked out, there are instances when you still want your fork to be active. To protect your fork's internal parts, your FOX fork will "blowoff" when it encounters an intense hit. You can adjust when the fork blows off—lockout force—by adjusting the blue knob on the bottom of the right leg.

A convenient tuning feature of the lockout force knob is that it allows you to leave your fork in the locked out position—no more fiddling with fork controls when the trail requires your undivided attention. Although you might need to adjust the knob a few times to find the sweet spot, once it is found you can simply leave your fork locked out. Your fork will then respond to hits in the trail (greater lockout force), for example, but will be locked out (lower lockout force) when you are out of your saddle on a climb.

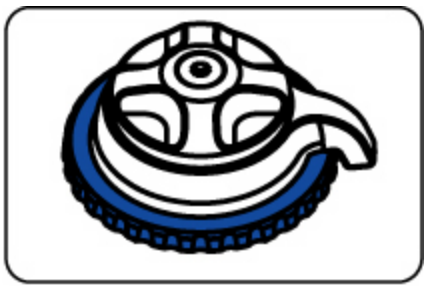
Turn the knob clockwise to increase lockout force and counterclockwise to decrease lockout force.

There are 12 clicks of adjustment. As a starting point, turn the knob all the way clockwise until it stops, then back off one click counterclockwise.



Adjusting Low-Speed Compression

Low-speed compression damping is adjusted with the blue bezel ring (shown below) below the blue lockout lever, and has 8 clicks of adjustment. Compression damping controls the speed at which the fork compresses. Adjust low-speed compression with lockout disabled (lockout lever fully counterclockwise). As a starting point, turn the low-speed compression dial all the way counterclockwise (full out) until it stops, then turn clockwise (in) 5 clicks.



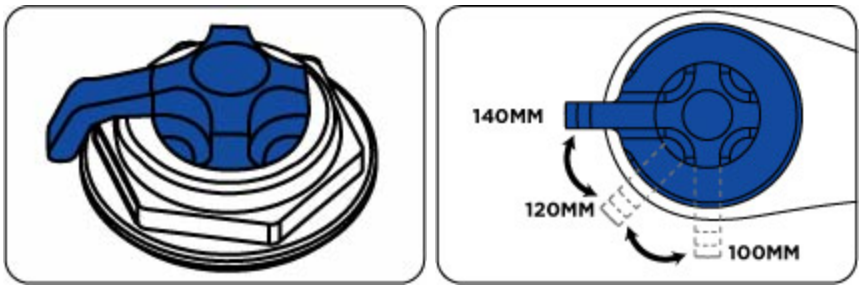
KNOB SETTING (CLICKS IN FROM FULL OUT)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Soft Compression	Too soft and your fork will pack down and ride harsh.	Maximum wheel traction and bump compliance. Too soft and you maybe have

			excessive brake dive and wallowy feel.
5 (Factory setting)	**Average Compression**		
9	Firm Compression	Too firm and you will experience poor traction and wheel hop.	Resists brake dive and keeps the fork up in the travel. Too firm and you may have poor traction in loose conditions.

Changing Travel

32MM TALAS forks feature three externally adjustable travel choices from 5.5 (140mm) to 4.75"(120mm) to 4 (100mm), which are easily selected using the TALAS lever (shown below) on top of the left fork leg. Travel options and direction settings are printed directly on the lever.

When changing travel, the TALAS II system automatically adjusts to provide you with the appropriate linear air spring rate for each travel setting. There is no need to re-adjust the air pressure in the TALAS air chamber after changing travel.



For safety reasons, it is recommended that travel adjustment be done while off the bike. If necessary, travel can be adjusted on-the-fly (be careful when using this "extreme" travel adjusting method), which can be handy right before a grueling climb or steep descent.

Decreasing Travel

From the 140 or 120 mm position, turn the lever counterclockwise to decrease travel. Travel will be decreased in 20mm increments. Do not force the lever past the 100mm position.

Increasing Travel

From the 100 or 120 mm position, turn the lever clockwise to increase travel. Travel will be increased in 20mm increments. Do not force the lever past the 140mm position.

WHEREVER YOU RIDE.

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TALAS RL

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Locking Out the Fork | Changing Travel | Service Intervals | Important Safety Information



weight	3.98 lbs./1.81 kg
travel	5.5 in. / 140 mm TALAS 140+120+100 mm
features/adjustments	TALAS II travel system, lockout, air spring pressure, rebound
spring/damper type	air/open bath
intended use	all-mountain, cross-country
color	TALAS Blue

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

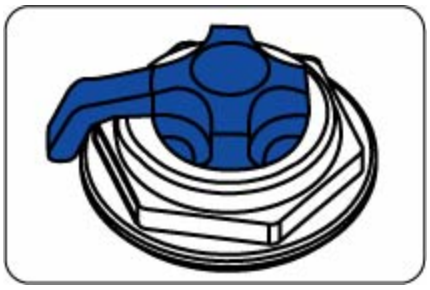
Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust sag. Generally, sag should be set to 15 – 25% of total fork travel.

1. Unscrew the center blue aircap in the middle of the TALAS lever (shown below) on top of the left fork leg to expose the Schrader valve.

   Hold the TALAS lever steady with one hand while unscrewing the aircap with the other. This will facilitate removal of the aircap and also protect the TALAS lever from being forced past its stops.

2. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
3. Using the Air Spring Settings table below, pump your fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
4. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
5. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
6. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
7. Compare your sag measurement to the Sag Setup table below.

   If your sag is lower than on the table, screw on the pump fitting, note the current air pressure setting and depress the black bleed-valve to reduce the gauge pressure by 5 psi. Measure sag again and repeat adjustment, if necessary.

   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
8. Screw the blue aircap back on, and go ride.

AIR SPRING SETTING GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	50 psi
125 - 135 lbs.	55 psi
135 - 145 lbs.	60 psi
145 - 155 lbs.	65 psi
155 - 170 lbs.	70 psi
170 - 185 lbs.	80 psi
185 - 200 lbs.	90 psi
200 - 215 lbs.	100 psi
215 - 230 lbs	115 psi
230 - 250 lbs.	125 psi

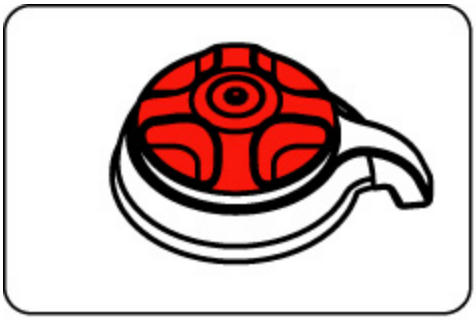
SAG SETUP		
Travel	**XC/Race FIRM**	**All-Mountain PLUSH**
100 mm (4")	15mm (1/2")	20mm (3/4")
120 mm (4.75")	18mm (3/4")	30mm (1 1/8")
140 mm (5.5")	21mm (7/8")	35mm (1 3/8")

Sag and *spring rate* will self adjust to the proper setting and rate as TALAS is adjusted to shorter travel positions.

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	(+) air pressure in 5psi increments
Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob clockwise slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound.
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Locking Out the Fork

The blue compression lockout lever is located below the red rebound adjuster knob. It allows the rider to close the compression damping circuit in the fork. This keeps the fork at the top of its travel, making it harder to compress.

Rotate the lever fully clockwise to lockout the fork. This position is useful in climbing and sprinting situations, but will sag with the rider's weight. The fork will "blowoff" in the event that a big hit is encountered with the fork locked out.

To unlock the fork, simply rotate the lever fully counterclockwise.

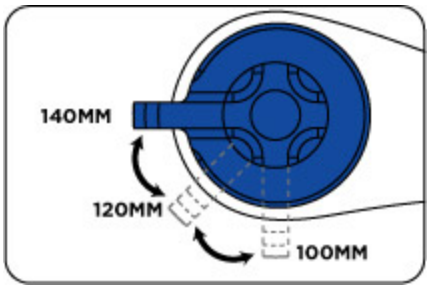


Changing Travel

32MM TALAS forks feature three externally adjustable travel choices from 5.5” (140mm) to 4.75"(120mm) to 4” (100mm), which are easily selected using the TALAS lever (shown below) on top of the left fork leg. Travel options and direction settings are printed directly on the lever.

When changing travel, the TALAS II system automatically adjusts to provide you with the appropriate linear air spring rate for each travel setting. There is no need to re-adjust the air pressure in the TALAS air chamber after changing travel.





For safety reasons, it is recommended that travel adjustment be done while off the bike. If necessary, travel can be adjusted on-the-fly (be careful when using this "extreme" travel adjusting method), which can be handy right before a grueling climb or steep descent.

Decreasing Travel

From the 140 or 120 mm position, turn the lever counterclockwise to decrease travel. Travel will be decreased in 20mm increments. Do not force the lever past the 100mm position.

Increasing Travel

From the 100 or 120 mm position, turn the lever clockwise to increase travel. Travel will be increased in 20mm increments. Do not force the lever past the 140mm position.

WHEREVER YOU RIDE.

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TALAS X

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Adjusting Bump Threshold | Changing Travel | Service Intervals | Important Safety Information



weight	3.97 lbs./1.80 kg
travel	5 in. / 130 mm TALAS 130+110+90 mm
features/adjustments	TALAS II travel adjust, air spring pressure, TrailTune, bump threshold, rebound
spring/damper type	air/X damper
intended use	*all-mountain*, *cross-country*
color	TALAS Blue

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust *sag*. Generally, sag should be set to 15 – 25% of total fork travel.

1. Unscrew the center blue aircap in the middle of the TALAS lever (shown below) on top of the left fork leg to expose the Schrader valve.

   Hold the TALAS lever steady with one hand while unscrewing the aircap with the other. This will facilitate removal of the aircap and also protect the TALAS lever from being forced past its stops.

2. Set the lever in the long travel position and cycle the fork a few times.
3. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
4. Using the Air Spring Settings table below, pump your fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
5. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
6. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
7. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
8. Compare your sag measurement to the Sag Setup table below.

   If your sag is lower than on the table, screw on the pump fitting, note the current air pressure setting and depress the black bleed-valve to reduce the gauge pressure by 5 psi. Measure sag again and repeat adjustment, if necessary.

   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
9. Screw the blue aircap back on, and go ride.

AIR SPRING SETTING GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	50 psi
125 - 135 lbs.	55 psi
135 - 145 lbs.	60 psi
145 - 155 lbs.	65 psi
155 - 170 lbs.	70 psi
170 - 185 lbs.	80 psi
185 - 200 lbs.	90 psi
200 - 215 lbs.	100 psi
215 - 230 lbs	115 psi
230 - 250 lbs.	125 psi

SAG SETUP		
Travel	**XC/Race FIRM**	**All-Mountain PLUSH**
90 mm (3.5")	13mm (1/2")	18mm (3/4")
110 mm (4.25")	16mm (3/5")	22mm 7/8")

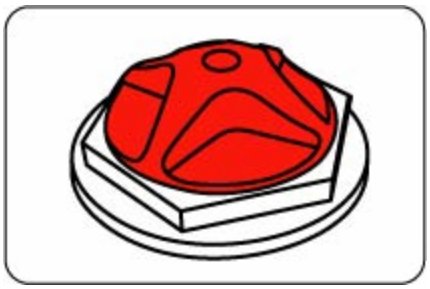
130 mm (5")	19mm (3/4")	26mm (1")

Sag and *spring rate* will self adjust to the proper setting and rate as TALAS is adjusted to shorter travel positions.

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	(+) air pressure in 5psi increments
Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob *clockwise* slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Adjusting Bump Threshold

Bump threshold is adjusted with the blue knob located on the bottom of the right fork leg. This gives the rider the ability to adjust the force required to cause the BrassMass valve to open, depending on the bump input from the trail. Turn the knob clockwise to make it harder for the BrassMass valve to open (higher bump threshold), counterclockwise to make it easier for the BrassMass valve to open (lower bump threshold).

There are 22 clicks of adjustment. The factory setting is full out (counterclockwise), then 6 clicks in (clockwise).



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Harder	Provides firmest threshold.	Maximum pedaling efficiency with slight loss of slow-speed traction.
6 (Factory setting)	Average		
22	Easier	Provides low-speed compression damping to filter out rider-induced bob.	Good pedaling efficiency with increased slow-speed traction.

TrailTune

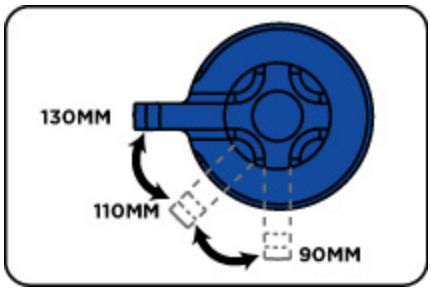
When FOX Racing Shox began to investigate using the patented TerraLogic technology on a longer travel, more trail-oriented fork, the conclusion was reached that what works for the racer does not necessarily work for the trail rider. FOX massaged the compression damping circuitry to allow for a little more low-speed compliance than the full-race oriented lockout on the FX line of forks. With TrailTune, when the Brass Mass is closed and the fork stiffens up, there is still some oil-flow, allowing the fork to move over small impacts, but there is still plenty of low-speed compression damping to filter out rider induced “bob." And, once the going gets rough, the BrassMass valve reacts instantly and the fork works with all the plush, smooth, bump eating precision that FOX forks are famous for.

Changing Travel

32MM TALAS forks feature three externally adjustable travel choices from 5” (130mm) to 4.25"(110mm) to 3.5” (90mm), which are easily selected using the TALAS lever (shown below) on top of the left fork leg. Travel options and direction settings are printed directly on the lever.

When changing travel, the TALAS II system automatically adjusts to provide you with the appropriate linear air spring rate for each travel setting. There is no need to re-adjust the air pressure in the TALAS air chamber after changing travel.





For safety reasons, it is recommended that travel adjustment be done while off the bike. If necessary, travel can be adjusted on-the-fly (be careful when using this "extreme" travel adjusting method), which can be handy right before a grueling climb or steep descent.

Decreasing Travel

From the 130 or 110 mm position, turn the lever counterclockwise to decrease travel. Travel will be decreased in 20mm increments. Do not force the lever past the 90mm position.

Increasing Travel

From the 90 or 110 mm position, turn the lever clockwise to increase travel. Travel will be increased in 20mm increments. Do not force the lever past the 130mm position.

WHEREVER YOU RIDE.



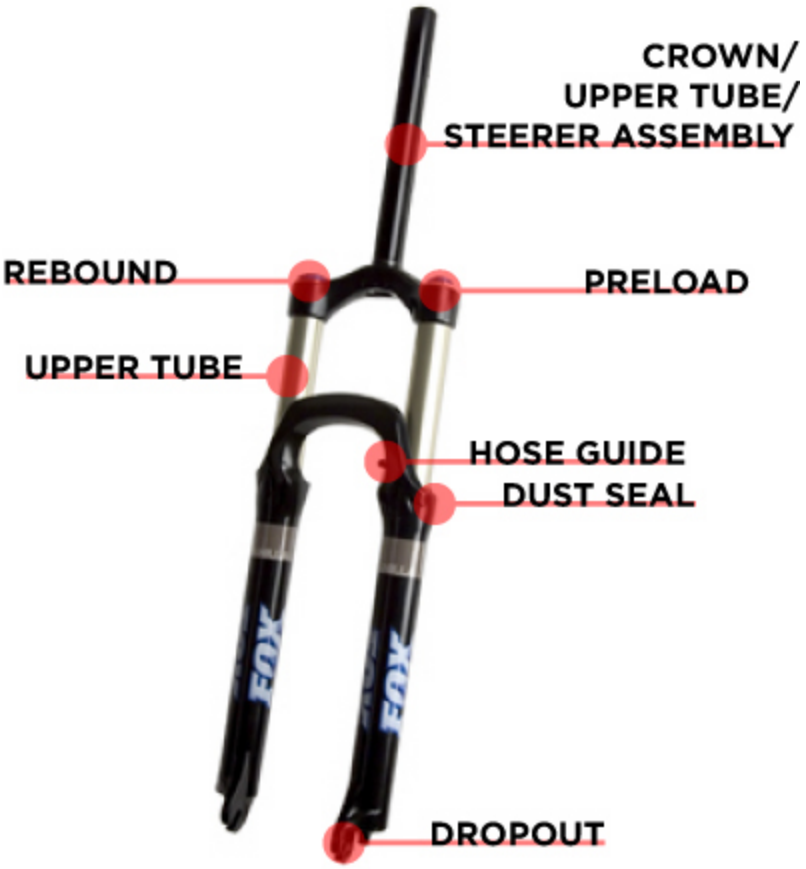
Bushing Technology & Inspection | Seals & Foam Rings | Control Direction | Oil Volumes | Structural Inspection | Dropout Thickness Inspection | Torque Values | Unit Conversion | Suspension Tuning Tips | Using the Pump | Important Safety Information | Service Intervals | Distributors & Global Service Centers | Contact FOX | Warranty Information

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VANILLA R FORK

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Changing the Coil Spring | Service Intervals | Important Safety Information



weight	4.19lbs./1.90 kg
travel	5.5 in. / 140 mm
features/adjustments	coil spring preload, rebound
spring/damper type	steel spring/open bath
intended use	all-mountain, freeride
color	Black Diamond

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

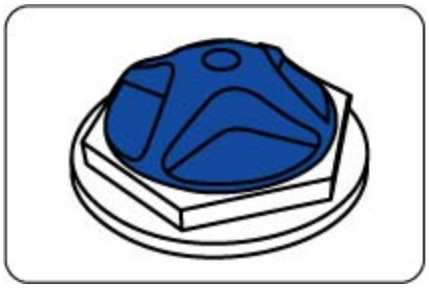
You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust sag. Generally, sag should be set to 15 – 25% of total fork travel.

1. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
2. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
3. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
4. Compare your sag measurement to the Sag Setup table below.

   If sag is lower than in the table, turn the preload knob (shown below) counter-clockwise one (1) full turn. Measure sag again and repeat adjustment if necessary.

   If sag is higher than in the table, turn the preload knob clockwise one (1) full turn. Measure sag again and repeat adjustment if necessary. If correct sag cannot be achieved by adjusting the preload knob, see the Vanilla Coil Spring Setting Guidelines table below. You may need to change to a coil spring with a different spring rate.



VANILLA COIL SPRING SETTING GUIDELINES				
FOX Part #	**Approximate Spring Rate**	**Color Code**	**Travel (mm)**	**Rider Weight lbs. (kg)**
039-05-080	40.6 lb/in	Black	140	<90–115 (40.8-52.2)
039-05-081	48.5 lb/in	Purple	140	115–150 (52.2-68.0)
039-05-082	56.4 lb/in	Blue	140	150–180 (68.0-81.6)
039-05-083	60.9 lb/in	Green	140	180–210 (81.6-95.3)

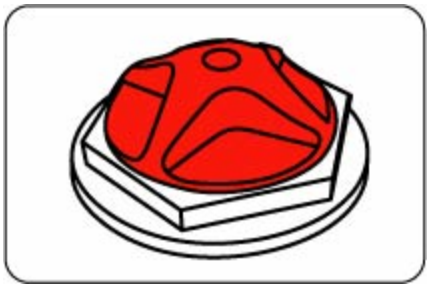
SAG SETUP		
Travel	**XC/Race FIRM**	**Freeride/ All-Mountain PLUSH**
140 mm (5.5")	20mm (3/4")	30mm (1.25")

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	Change to higher rate coil spring
Too little sag	Change to lower rate coil spring

Excessive bottoming	Change to higher rate coil spring
Harsh ride; full travel not utilized	Change to lower rate coil spring

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob clockwise slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Changing the Coil Spring

1. With a 26mm 6-point socket wrench, loosen and remove the preload topcap (top of left leg).
2. Compress the fork slightly and remove the coil spring. You may need to firmly pull up on the spring to disengage it from the plunger shaft.
3. Wipe the spring dry with a rag and check the color code.
4. Install the new spring by dropping it into the upper tube.
5. Torque the topcap to 165 in-lb. (1864 N-cm).
6. Rotate the fork to a horizontal position and shake it to move the oil inside the fork over the spring. This lubricates it before its first travel push.
7. Measure and set sag.

WHEREVER YOU RIDE.

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VANILLA RLC

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Locking Out the Fork | Adjusting Lockout Force | Adjusting Low-Speed Compression | Changing the Coil Spring | Service Intervals | Important Safety Information



weight	4.17 lbs./1.89 kg
travel	5.5 in. / 140 mm
features/adjustments	low-speed compression, lockout, lockout force adjust, coil spring *preload*, rebound
spring/damper type	steel spring/open bath
intended use	*all-mountain*, *freeride*
color	Black Diamond

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.

5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

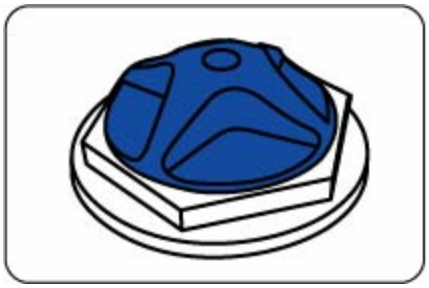
You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust *sag*. Generally, sag should be set to 15 – 25% of total fork travel.

1. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
2. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
3. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
4. Compare your sag measurement to the Sag Setup table below.

   If sag is lower than in the table, turn the preload knob (shown below) counter-clockwise one (1) full turn. Measure sag again and repeat adjustment if necessary.

   If sag is higher than in the table, turn the preload knob *clockwise* one (1) full turn. Measure sag again and repeat adjustment if necessary. If correct sag cannot be achieved by adjusting the preload knob, see the Vanilla Coil Spring Settings table below. You may need to change to a coil spring with a different *spring rate*.



VANILLA COIL SPRING SETTING GUIDELINES				
FOX Part #	**Approximate Spring Rate**	**Color Code**	**Travel (mm)**	**Rider Weight lbs. (kg)**
039-05-080	40.6 lb/in	Black	140	<90–115 (40.8-52.2)
039-05-081	48.5 lb/in	Purple	140	115–150 (52.2-68.0)
039-05-082	56.4 lb/in	Blue	140	150–180 (68.0-81.6)
039-05-083	60.9 lb/in	Green	140	180–210 (81.6-95.3)

SAG SETUP		
Travel	**XC/Race FIRM**	**Freeride/ All-Mountain PLUSH**
140 mm (5.5")	20mm (3/4")	30mm (1.25")

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	Change to higher rate coil spring

Too little sag	Change to lower rate coil spring
Excessive bottoming	Change to higher rate coil spring
Harsh ride; full travel not utilized	Change to lower rate coil spring

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob *clockwise* slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



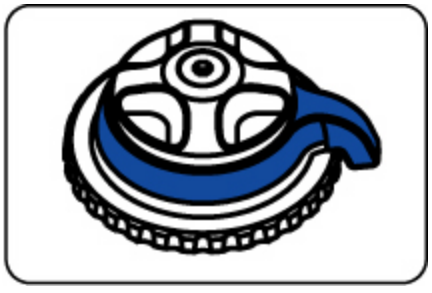
KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Locking Out the Fork

The blue compression lockout lever is located below the red rebound adjuster knob. It allows the rider to close the compression damping circuit in the fork. This keeps the fork at the top of its travel, making it harder to compress.

Rotate the lever fully clockwise to lockout the fork. This position is useful in climbing and sprinting situations, but will sag with the rider's weight. The fork will "blowoff" in the event that a big hit is encountered with the fork locked out.

To unlock the fork, simply rotate the lever fully counterclockwise.



The fork may cycle a couple of times after enabling lockout. Once complete lockout is achieved, the fork may continue to move 3 - 5 mm. This is normal and does not affect performance.

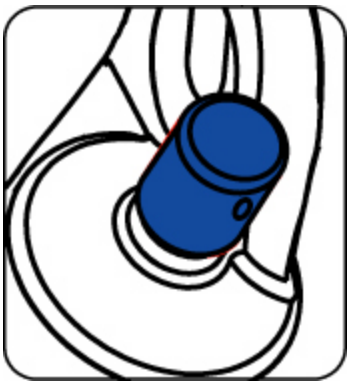
Adjusting Lockout Force

Even when your fork is fully locked out, there are instances when you still want your fork to be active. To protect your fork's internal parts, your FOX fork will "blowoff" when it encounters an intense hit. You can adjust when the fork blows off—lockout force—by adjusting the blue knob on the bottom of the right leg.

A convenient tuning feature of the lockout force knob is that it allows you to leave your fork in the locked out position—no more fiddling with fork controls when the trail requires your undivided attention. Although you might need to adjust the knob a few times to find the sweet spot, once it is found you can simply leave your fork locked out. Your fork will then respond to hits in the trail (greater lockout force), for example, but will be locked out (lower lockout force) when you are out of your saddle on a climb.

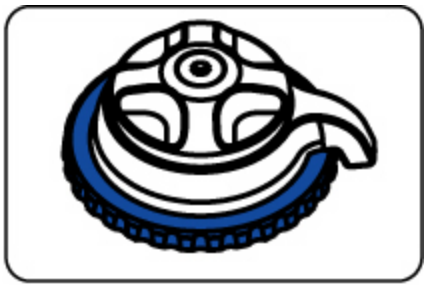
Turn the knob clockwise to increase lockout force and counterclockwise to decrease lockout force.

There are 12 clicks of adjustment. As a starting point, turn the knob all the way clockwise until it stops, then back off one click counterclockwise.



Adjusting Low-Speed Compression

Low-speed compression damping is adjusted with the blue bezel ring (shown below) below the blue lockout lever, and has 8 clicks of adjustment. Compression damping controls the speed at which the fork compresses. Adjust low-speed compression with lockout disabled (lockout lever fully counterclockwise). As a starting point, turn the low-speed compression dial all the way counterclockwise (full out) until it stops, then turn clockwise (in) 5 clicks.



KNOB SETTING (CLICKS IN FROM FULL OUT)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Soft Compression	Too soft and your fork will pack down and ride harsh.	Maximum wheel traction and bump compliance. Too soft and you maybe have excessive brake dive and wallowy feel.
5 (Factory setting)	Average Compression		
9	Firm Compression	Too firm and you will experience poor traction and wheel hop.	Resists brake dive and keeps the fork up in the travel. Too firm and you may have poor traction in loose conditions.

Changing the Coil Spring

1. With a 26mm 6-point socket wrench, loosen and remove the preload topcap (top of left leg).

2. Compress the fork slightly and remove the coil spring. You may need to firmly pull up on the spring to disengage it from the plunger shaft.
3. Wipe the spring dry with a rag and check the color code.
4. Install the new spring by dropping it into the upper tube.
5. Torque the topcap to 165 in-lb. (1864 N-cm).
6. Rotate the fork to a horizontal position and shake it to move the oil inside the fork over the spring. This lubricates it before its first travel push.
7. Measure and set sag.

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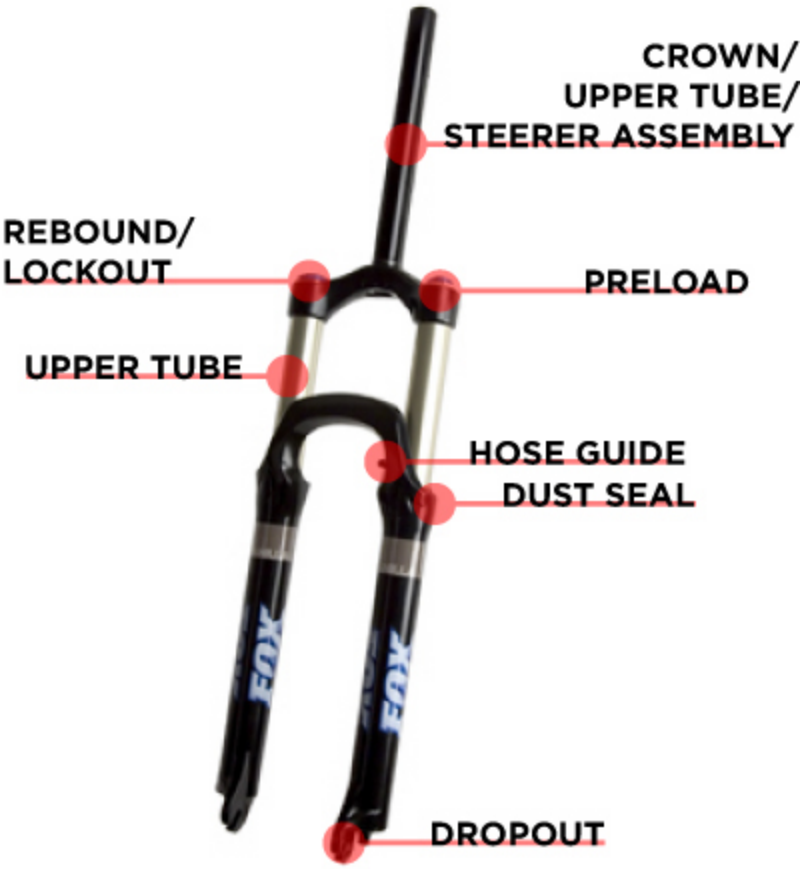
WHEREVER YOU RIDE.

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VANILLA RL

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Changing the Coil Spring | Locking Out the Fork | Service Intervals | Important Safety Information



weight	4.16 lbs./1.89 kg
travel	5.5 in. / 140 mm
features/adjustments	lockout, coil spring preload, rebound
spring/damper type	steel spring/open bath
intended use	all-mountain, freeride
color	Black Diamond

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

1. Check that quick-release levers are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

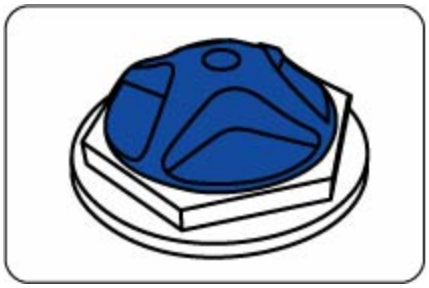
You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust sag. Generally, sag should be set to 15 – 25% of total fork travel.

1. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
2. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
3. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
4. Compare your sag measurement to the Sag Setup table below.

   If sag is lower than in the table, turn the preload knob (shown below) counter-clockwise one (1) full turn. Measure sag again and repeat adjustment if necessary.

   If sag is higher than in the table, turn the preload knob clockwise one (1) full turn. Measure sag again and repeat adjustment if necessary. If correct sag cannot be achieved by adjusting the preload knob, see the Vanilla Coil Spring Setting Guidelines table below. You may need to change to a coil spring with a different spring rate.



VANILLA COIL SPRING SETTING GUIDELINES				
FOX Part #	**Approximate Spring Rate**	**Color Code**	**Travel (mm)**	**Rider Weight lbs. (kg)**
039-05-080	40.6 lb/in	Black	140	<90–115 (40.8-52.2)
039-05-081	48.5 lb/in	Purple	140	115–150 (52.2-68.0)
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039-05-083	60.9 lb/in	Green	140	180–210 (81.6-95.3)

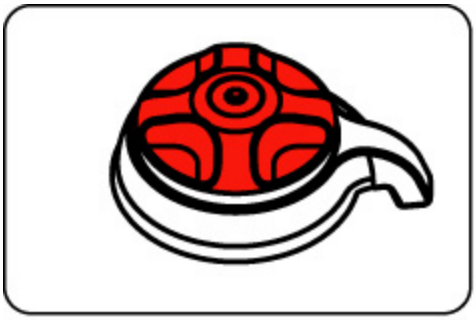
SAG SETUP		
Travel	**XC/Race FIRM**	**Freeride/ All-Mountain PLUSH**
140 mm (5.5")	20mm (3/4")	30mm (1.25")

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	Change to higher rate coil spring
Too little sag	Change to lower rate coil spring

Excessive bottoming	Change to higher rate coil spring
Harsh ride; full travel not utilized	Change to lower rate coil spring

Adjusting Rebound

The rebound knob (shown below) is located on the top of the right fork leg, and has 12 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob clockwise slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 6 clicks.



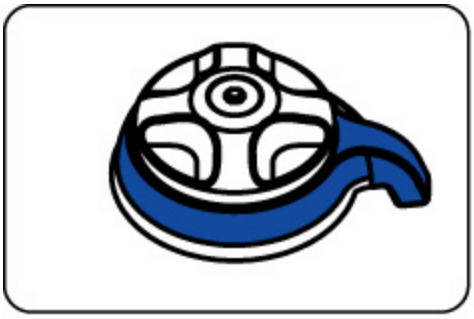
KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound
6 (Factory setting)	Average Rebound		
12	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Locking Out the Fork

The blue compression lockout lever is located below the red rebound adjuster knob. It allows the rider to close the compression damping circuit in the fork. This keeps the fork at the top of its travel, making it harder to compress.

Rotate the lever fully clockwise to lockout the fork. This position is useful in climbing and sprinting situations, but will sag with the rider's weight. The fork will "blowoff" in the event that a big hit is encountered with the fork locked out.

To unlock the fork, simply rotate the lever fully counterclockwise.



Changing the Coil Spring

1. With a 26mm 6-point socket wrench, loosen and remove the preload topcap (top of left leg).

2. Compress the fork slightly and remove the coil spring. You may need to firmly pull up on the spring to disengage it from the plunger shaft.
3. Wipe the spring dry with a rag and check the color code.
4. Install the new spring by dropping it into the upper tube.
5. Torque the topcap to 165 in-lb. (1864 N-cm).
6. Rotate the fork to a horizontal position and shake it to move the oil inside the fork over the spring. This lubricates it before its first travel push.
7. Measure and set sag.

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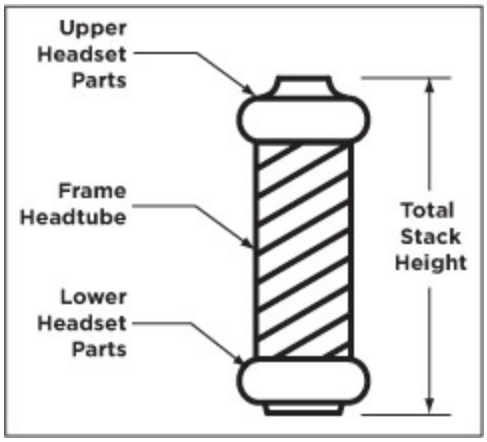
WHEREVER YOU RIDE.

INSTALLING THE 36

FOX Racing Shox highly recommends that a qualified bicycle technician install the 36 on your bicycle. Improperly installed forks are dangerous, and can cause loss of control and serious or fatal injuries. Read this section in its entirety before beginning the installation of your FOX 36.

To install the FOX 36 fork on your bicycle:

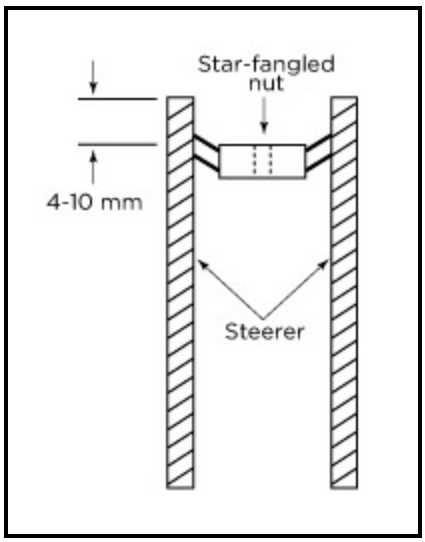
1. Remove the existing fork from the bicycle.
2. Remove the crown race from the old fork.
3. Measure the steerer tube length of the existing fork. Transfer this measurement to your new FOX fork's steerer tube.
   If you don't have an existing fork to measure, measure the headset stack height (shown in the diagram below). Cut your steerer to the same measurement as the Total Stack Height measurement. Refer to your stem manufacturer's instructions to be sure there will be enough clamping surface for the stem. In this case you may need to cut your steerer tube slightly shorter to allow enough clamping surface so that the stem cap bolt can pull up on the steerer tube, ensuring a snug fit.



4. If it is necessary to cut the steerer tube, **measure twice and cut once**. It is also recommended that a cutting guide be used while cutting the steerer tube.

   If the steerer has any nicks or gouges, the crown/steerer/upper tube assembly must be replaced. A nick or gouge can cause the steerer to fail prematurely, and cause loss of control of the bicycle and serious or fatal injuries.

5. Use a crown race setter to install the crown race firmly against the top of the crown. Install the star-fangled nut in the steerer tube with a star-fangled nut installation too to the proper depth (see Star-fangled nut installation depth diagram below).
6. Install the fork on to the bicycle. Install the stem, stem cap and M6 stem cap bolt on to the bicycle. Lightly tighten the stem cap bolt so that the fork turns freely without drag or free play.



Star-fangled nut installation depth

Tire Sizes

The 36 will accept tire sizes up to 2.80 inches wide. Any tire larger than 26 x 2.60 must be checked for clearance using the following method.

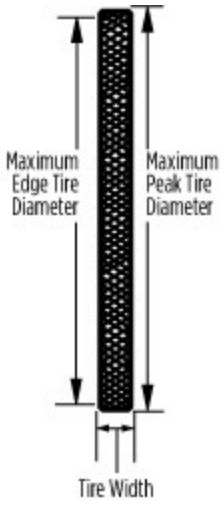
Determining correct tire size

With the tire installed and inflated on the rim, measure the following three dimensions:

Maximum Peak Tire Diameter = 694 mm = 27.3 inch

Maximum Edge Tire Diameter = 670 mm = 26.41 inch

Maximum Tire Width = 71 mm = 2.80 inch



Do not use a tire if any measurement exceeds the maximum dimensions shown above. Using larger tires is not recommended and can cause serious of fatal injuries.

7. **Installing the front wheel**:

a. Loosen the four axle pinch bolts on the lower leg with a 5mm hex-key wrench.

b. Using a 5mm hex-key wrench, turn counterclockwise to loosen and remove the axle.

c. Install the front wheel into the dropouts and install the axle into the lower leg.

d. Using a 5mm hex-key wrench, turn clockwise and lightly tighten and torque the axle to the lower leg to 19 in-lb (215 N-cm).

e. Torque the two left-side dropout pinch-bolts to 19 in-lb (215 N-cm).

f. Compress the fork on the bike a couple of times to let the right side of the dropout float and settle to its low-friction point. Torque the two right side dropout pinch-bolts to 19 in-lb (215 N-cm).

8. **Setting handlebars straight and torquing stem bolts:**

a. Set the bike on the ground and sit on your bike to set the handlebars straight relative to the front wheel.

b. Tighten the stem pinch bolts and torque fasteners according to the stem manufacturer's specifications.

c. Check that the handlebar pinch bolts are torqued to the stem manufacturer's specifications.

Disc Brake Installation

The 36 is designed with the international XC disc brake bolt pattern for use with disc brakes with disc rotor sizes of 160 – 205mm only. The 36 can use XC or DH mechanical or hydraulic brake systems.

Never modify the lower leg or use cantilever rim brakes.

The 36 disc bolt pattern uses:

For use with XC size rotor (160 – 180 mm outside diameter):

- XC caliper
- XC caliper mount for international XC mount pattern

OR

For use with DH size rotor (200 – 205 mm outside diameter):

- XC caliper
- DH caliper mount for international XC mount pattern

a. Install DH disc brake system according to disc brake manufacturer's specifications. Be sure to torque all fasteners and bolts to manufacturer's recommendations.

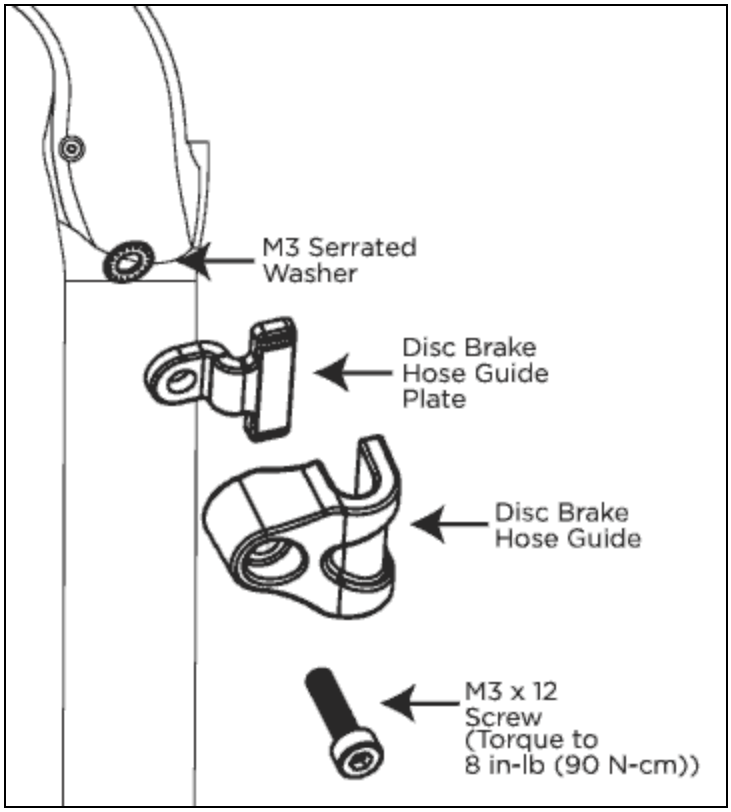
b. Consult the manual that came with your disc brakes for proper installation procedures. It is recommended that NEW disc brake pads be installed to ensure proper alignment and to minimize drag.

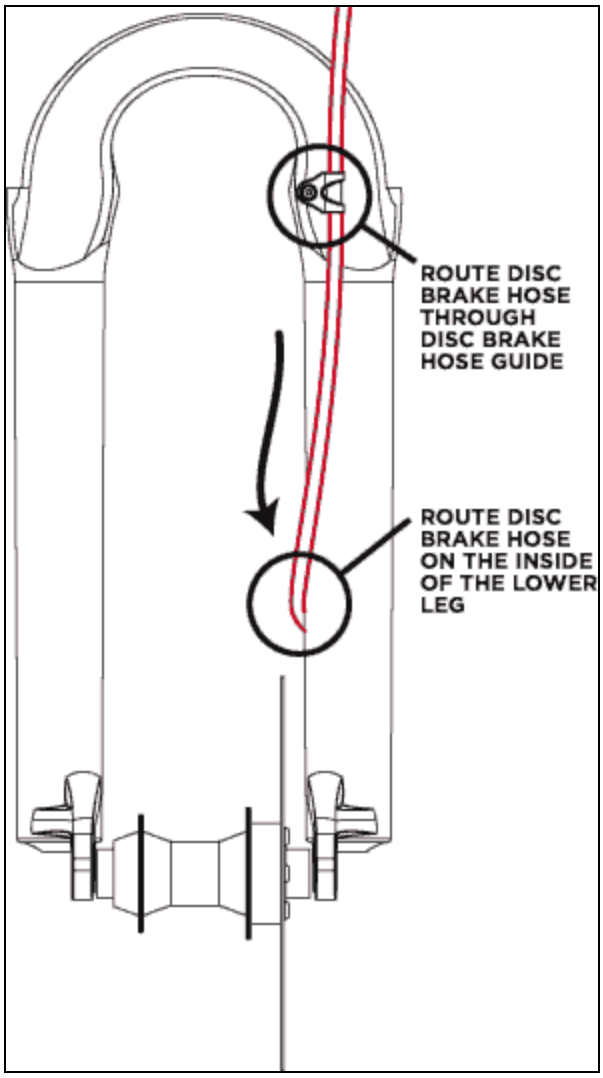
c. Test brakes for proper operation on flat land before hitting the trails.

d. Route the disc brake hose (for hydraulic disc brakes) or brake cable housing (for mechanical disc brakes) from the caliper to the inside of the lower leg and through the supplied disc brake hose guide, and assemble the FOX disc brake hose guide parts as shown in the figures below.

e. Cut your brake hose or brake cable housing to the correct length and assemble according to disc brake manufacturer's specifications.

f. Tighten the disc brake hose guide screw with a 2.5 mm-hex key wrench and torque to 8 in-lb (90 N-cm).





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36 FLOAT RC2 & R

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Adjusting High-Speed Compression | Adjusting Low-Speed Compression | Changing Travel | Service Intervals | Important Safety Information



weight RC2 **weight R**	5.05 lbs./2.29 kg 4.97 lbs./2.26 kg
travel	6.3 in. / 160 mm
features/adjustments RC2	low-speed compression, high-speed compression, internal bottom-out resistance, air spring pressure, rebound
features/adjustments R	internal bottom-out resistance, air spring pressure, rebound
spring/damper type	air/RC2 FIT damper
intended use	*downhill*, *all-mountain*, *freeride*
color	FLOAT Gold

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

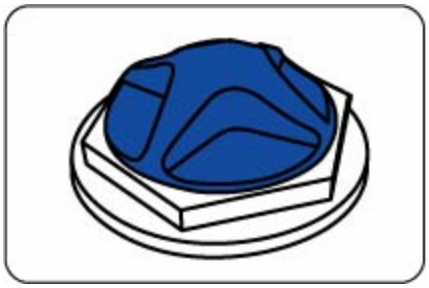
1. Check that the 20mm axle pinch bolts and crown pinch bolts are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust *sag*. Generally, sag should be set to 15 – 25% of total fork travel.

1. Unscrew the center blue aircap (shown below) on top of the left fork leg to expose the Schrader valve.



2. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
3. Using the 36 FLOAT Air Spring Setting Guidelines table below, pump your fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
4. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
5. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
6. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
7. Compare your sag measurement to the Sag Setup table below.

   If your sag is lower than on the table, screw on the pump fitting, note the current air pressure setting and depress the black bleed-valve to reduce the gauge pressure by 5 psi. Measure sag again and repeat adjustment, if necessary.

   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
8. Screw the blue aircap back on, and go ride.

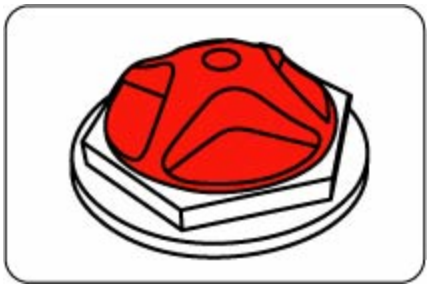
36 FLOAT AIR SPRING SETTING GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	45 psi
125 - 135 lbs.	48 psi
135 - 145 lbs.	50 psi
145 - 155 lbs.	53 psi
155 - 170 lbs.	55 psi
170 - 185 lbs.	62 psi
185 - 200 lbs.	69 psi
200 - 215 lbs.	76 psi
215 - 230 lbs	83 psi
230 - 250 lbs.	90 psi

SAG SETUP		
Travel	**XC/Race FIRM**	**Freeride PLUSH**
100 mm (4")	15mm (1/2")	20mm (3/4")
130 mm (5")	20mm (3/4")	32mm (1.25")
160 mm (6.3")	20mm (3/4")	40mm (1.5")

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	(+) air pressure in 5psi increments
Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

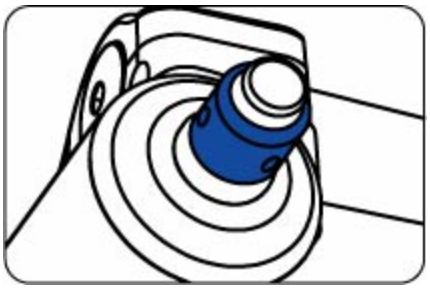
The rebound knob (shown below) is located on the top of the right fork leg, and has 15 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob *clockwise* slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 8 clicks.



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your *spring rate* or air pressure, you will need to slow down your rebound
8 (Factory setting)	**Average Rebound**		
15	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Adjusting High-Speed Compression (RC2 only)

High-speed *compression damping* controls the force it takes to move the fork through its travel and how the wheel reacts to a bump. This adjuster rotates to stops at each end and has 15 clicks of adjustment. It is preset from the factory at 1 click in from the full out (counterclockwise) position. The knob is protected by the black protective cap. Never ride your FOX 36 without the black protective cap.



KNOB SETTING (CLICKS IN FROM FULL OUT)	SETTING DESCRIPTION	TUNING TIPS

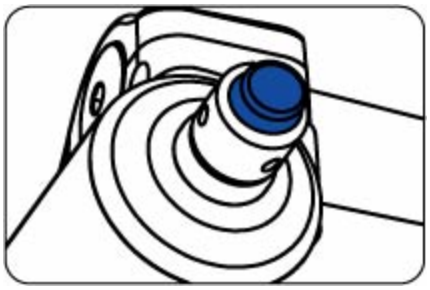
1	Slow Compression	Maximum wheel traction and bump compliance. If setting is too soft, you may bottom often on square-edged hits and G-outs.
1 (Factory setting)	**Average Compression**	
15	Firm Compression	Reduces bottom-out and provides maximum bump absorption. If setting is too firm, you may experience a harsh ride with bad traction and use too little available travel.

"Boost" Feature of the High-Speed Compression Adjuster (RC2 only)

The high-speed compression adjuster is equipped with a maximum “Boost” setting. This setting offers increased bump force resistance well beyond the adjuster's linear range up until the stop at full firm (clockwise). To enable the “Boost” feature, turn the high-speed compression knob to the full in (clockwise) position, to the stop with firm hand torque. You can use a 3mm hex key to assist in turning the knob to the full in position or to untorque when de-tuning the Boost feature.

Adjusting Low-Speed Compression (RC2 only)

Low-speed compression damping controls the influence of the rider’s weight shifts and bike attitude under braking. This adjuster rotates to stops at each end and has 17 clicks of adjustment. It is preset from the factory at 1 click in from the full out (counterclockwise) position. The knob is protected by the black protective cap. Never ride your FOX 36 without the black protective cap.



KNOB SETTING (CLICKS IN FROM FULL OUT)	SETTING DESCRIPTION	TUNING TIPS
1	Slow Compression	Maximum wheel traction and bump compliance. Too soft and you maybe have excessive brake dive and wallowy feel.
1 (Factory setting)	**Average Compression**	
17	Firm Compression	Resists brake dive and keeps the fork up in the travel. Too firm and you may have poor traction in loose conditions.

Hydraulic Bottom-Out System

The 36 VAN is equipped with a patent-pending Internally Adjustable Hydraulic Bottom-Out Control System. This feature can be adjusted inside the cartridge by FOX Racing Shox or an Authorized Service Center. It comes preset from the factory at the FIRM setting.

Changing Travel

Travel on your 36 FLOAT fork can be changed by rearranging the internal travel spacers. After changing travel check the fork for proper operation before riding. If there is noticeable play in the fork or if it makes strange noises, disassemble the fork and check for complete

number and correct orientation of spacers.

36 FLOAT forks can be reduced in travel, but they cannot be increased beyond 160mm.

Tools Required for Travel Change

- 32mm 6-sided socket
- 10mm socket
- Small screwdriver
- Torque wrench
- 2mm hex key wrench
- Oil drain pan
- 1.5mm hex key wrench
- Plastic-faced hammer
- Measuring container w/ cc or mL increments

Supplies Required for Travel Change

Learn how to use the FOX High Pressure Pump

SUPPLIES REQUIRED		
Quantity	**Part Number**	**Part Name**
1	025-03-004-A	1 qt. bottle of FOX Suspension Fluid (7 wt.)
1	025-03-002-A	5cc Pillow Pack of FOX FLOAT Fluid
2	241-01-002-C	Crush washer
1	803-00-078	FLOAT Forx Air Piston Seal Kit (optional)

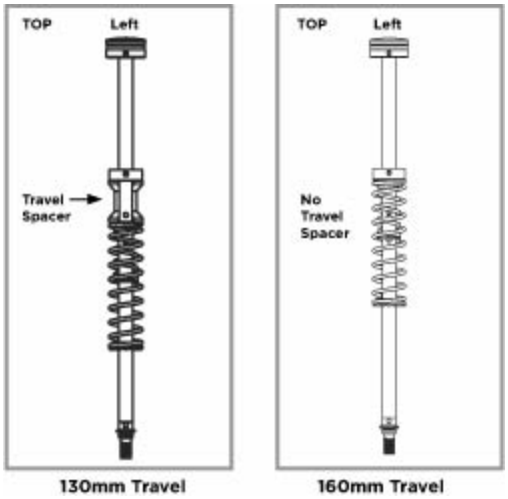
1. Remove the blue air cap from the top of the left fork leg. Let the air out of the fork. Remove the left top cap with a 32mm socket 6-point socket wrench.
2. Loosen the bottom nut 3-4 turns with a 10mm wrench. With a plastic mallet, gently tap the bottom of the shaft to disengage it from the lower leg. Allow oil to drain into a bucket. Remove the bottom nut and crush washer.
3. Compress the fork as much as possible. The air piston will be visible about one inch below the top of the upper tube. Push the bottom of the air shaft upwards to push the air piston out of the top of the upper tube. Use a long, thin shaft screwdriver to push the bottom of the air shaft up through the hole in the bottom of the lower leg.
4. Pull the air-shaft assembly from the fork. Refer to the drawings below and add or remove the appropriate number of 30mm spacer(s) to achieve the desired travel. To achieve 130mm travel, use one 30mm spacer; 100mm travel, use both 30mm spacers.

Spacers snap onto the air shaft between the negative spring guide and topout plate, as shown in the travel spacer orientation drawing below.

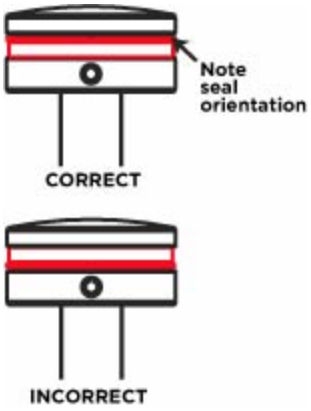
5. Lubricate the U-cup seal on the air piston with FOX FLOAT Fluid and re-install the air shaft assembly into the upper tube. Be sure to orient the U-cup seal as shown in the Seal Orientation drawing below.
6. Push the shaft until it approaches the bottom hole of the fork. Do not push the shaft all the way through the bottom hole.
7. Turn the fork upside down. Measure and pour 30cc of FOX Suspension Fluid through the bottom hole.
8. Push the air shaft assembly up until the shaft comes through the bottom hole. Install the crush washer and bottom nut. Torque to 50 in-lbs.
9. Turn the fork right side up. Pour 5cc of FOX FLOAT Fluid on top of the air piston.
10. Lubricate the o-ring on the air topcap with FOX FLOAT Fluid.
11. Re-install the topcap and torque to 165 in-lbs.
12. Pump up the fork to the desired pressure and cycle it several times to check for proper operation.
13. Re-install the blue air cap.

14. You're done. Go ride.

Travel Spacer Orientation



Seal Orientation



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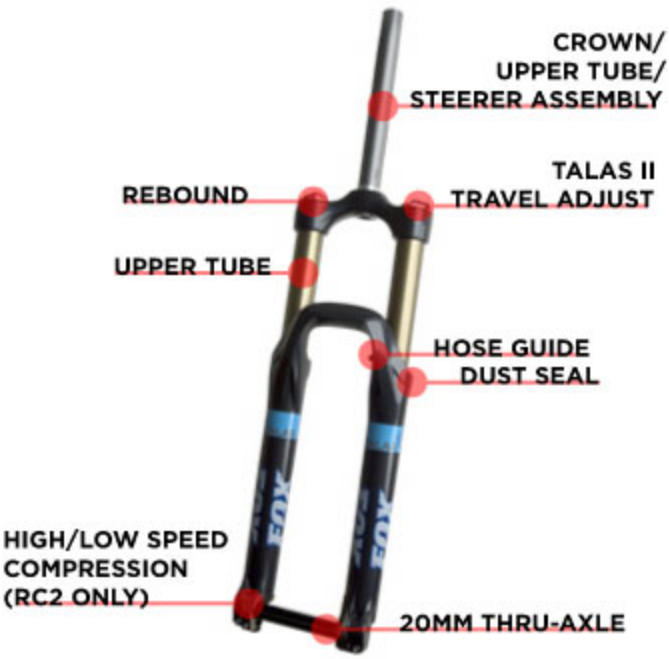
WHEREVER YOU RIDE.

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36 TALAS RC2 & R

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Adjusting High-Speed Compression | Adjusting Low-Speed Compression | Changing Travel | Service Intervals | Important Safety Information



weight RC2 **weight R**	5.27 lbs./2.39 kg 5.19 lbs./2.36 kg
travel	6.3 in. / 160 mm TALAS 160+130+100 mm
features/adjustments RC2	TALAS II travel adjust, low-speed compression, high-speed compression, hydraulic bottom-out in damper, air spring pressure, rebound
features/adjustments R	TALAS II travel adjust, hydraulic bottom-out in damper, air spring pressure, rebound
spring/damper type	air/RC2 FIT damper
intended use	*downhill*, *all-mountain*, *freeride*
color	TALAS Blue

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

1. Check that the 20mm axle pinch bolts and crown pinch bolts are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust *sag*. Generally, sag should be set to 15 – 25% of total fork travel.

1. Unscrew the center blue aircap in the middle of the TALAS lever (shown below) on top of the left fork leg to expose the Schrader valve.

   Hold the TALAS lever steady with one hand while unscrewing the aircap with the other. This will facilitate removal of the aircap and also protect the TALAS lever from being forced past its stops.

2. Set the lever in the long travel position and cycle the fork a few times.
3. Attach a FOX Racing Shox High Pressure Pump to the Schrader valve.
4. Using the 36 TALAS Air Spring Settings table below, pump your fork to the appropriate setting using the FOX High Pressure Pump, then remove the pump.
5. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
6. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
7. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
8. Compare your sag measurement to the Sag Setup table below.

   If your sag is lower than on the table, screw on the pump fitting, note the current air pressure setting and depress the black bleed-valve to reduce the gauge pressure by 5 psi. Measure sag again and repeat adjustment, if necessary.

   If your sag is higher than on the table, screw on the pump fitting, note the current air pressure setting and pump to increase the gauge pressure by 5 psi. Measure sag again and repeat adjustment if necessary.
9. Screw the blue aircap back on, and go ride.

36 TALAS AIR SPRING SETTING GUIDELINES	
Rider Weight	**Air Pressure**
< 125 lbs.	45 psi
125 - 135 lbs.	48 psi
135 - 145 lbs.	50 psi
145 - 155 lbs.	53 psi
155 - 170 lbs.	55 psi
170 - 185 lbs.	62 psi
185 - 200 lbs.	69 psi
200 - 215 lbs.	76 psi
215 - 230 lbs	83 psi
230 - 250 lbs.	90 psi

SAG SETUP		
Travel	**XC/Race FIRM**	**Freeride PLUSH**
100 mm (4")	15mm (1/2")	20mm (3/4")
130 mm (5")	20mm (3/4")	32mm (1.25")

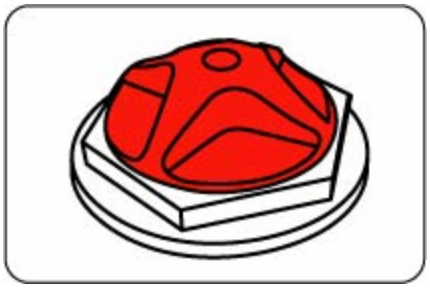
160 mm (6.3")	20mm (3/4")	40mm (1.5")

Sag and *spring rate* will self adjust to the proper setting and rate as TALAS is adjusted to shorter travel positions.

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	(+) air pressure in 5psi increments
Too little sag	(-) air pressure in 5psi increments
Excessive bottoming	(+) air pressure in 5psi increments
Harsh ride; full travel not utilized	(-) air pressure in 5psi increments

Adjusting Rebound

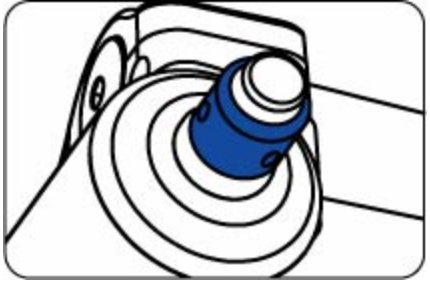
The rebound knob (shown below) is located on the top of the right fork leg, and has 15 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob *clockwise* slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 8 clicks.



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound
8 (Factory setting)	**Average Rebound**		
15	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Adjusting High-Speed Compression (RC2 only)

High-speed *compression damping* controls the force it takes to move the fork through its travel and how the wheel reacts to a bump. This adjuster rotates to stops at each end and has 15 clicks of adjustment. It is preset from the factory at 1 click in from the full out (counterclockwise) position. The knob is protected by the black protective cap. Never ride your FOX 36 without the black protective cap.



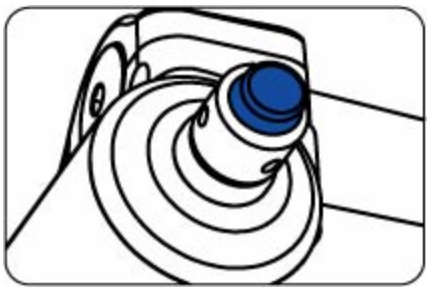
KNOB SETTING (CLICKS IN FROM FULL OUT)	SETTING DESCRIPTION	TUNING TIPS
1	Slow Compression	Maximum wheel traction and bump compliance. If setting is too soft, you may bottom often on square-edged hits and G-outs.
1 (Factory setting)	**Average Compression**	
15	Firm Compression	Reduces bottom-out and provides maximum bump absorption. If setting is too firm, you may experience a harsh ride with bad traction and use too little available travel.

"Boost" Feature of the High-Speed Compression Adjuster (RC2 only)

The high-speed compression adjuster is equipped with a maximum “Boost” setting. This setting offers increased bump force resistance well beyond the adjuster's linear range up until the stop at full firm (clockwise). To enable the “Boost” feature, turn the high-speed compression knob to the full in (clockwise) position, to the stop with firm hand torque. You can use a 3mm hex key to assist in turning the knob to the full in position or to untorque when de-tuning the Boost feature.

Adjusting Low-Speed Compression (RC2 only)

Low-speed compression damping controls the influence of the rider’s weight shifts and bike attitude under braking. This adjuster rotates to stops at each end and has 17 clicks of adjustment. It is preset from the factory at 1 click in from the full out (counterclockwise) position. The knob is protected by the black protective cap. Never ride your FOX 36 without the black protective cap.



KNOB SETTING (CLICKS IN FROM FULL OUT)	SETTING DESCRIPTION	TUNING TIPS
1	Slow Compression	Maximum wheel traction and bump compliance. Too soft and you maybe have excessive brake dive and wallowy feel.
1 (Factory setting)	**Average Compression**	
17	Firm Compression	Resists brake dive and keeps the fork up in the travel. Too firm and you may have poor traction in loose conditions.

Hydraulic Bottom-Out System

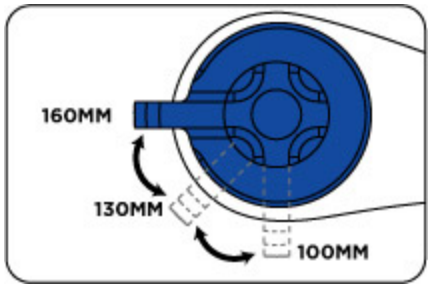
The 36 VAN is equipped with a patent-pending Internally Adjustable Hydraulic Bottom-Out Control System. This feature can be adjusted inside the cartridge by FOX Racing Shox or an Authorized Service Center. It comes preset from the factory at the FIRM setting.

Changing Travel

36 TALAS forks feature three externally adjustable travel choices from 6.3” (160mm) to 5" (130mm) to 4” (100mm), which are easily selected using the TALAS lever (shown below) on top of the left fork leg. Travel options and direction settings are printed directly on the lever.

When changing travel, the TALAS II system automatically adjusts to provide you with the appropriate linear air spring rate for each travel setting. There is no need to re-adjust the air pressure in the TALAS air chamber after changing travel.





For safety reasons, it is recommended that travel adjustment be done while off the bike. If necessary, travel can be adjusted on-the-fly (be careful when using this "extreme" travel adjusting method), which can be handy right before a grueling climb or steep descent.

Decreasing Travel

From the 160 or 130 mm position, turn the lever counterclockwise to decrease travel. Travel will be decreased in 30mm increments. Do not force the lever past the 100mm position.

Increasing Travel

From the 100 or 130 mm position, turn the lever clockwise to increase travel. Travel will be increased in 30mm increments. Do not force the lever past the 160mm position.

WHEREVER YOU RIDE.

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36 VAN RC2 & R

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Adjusting High-Speed Compression | Adjusting Low-Speed Compression | Changing the Coil Spring | Service Intervals | Important Safety Information



weight RC2 **weight R**	5.53 lbs./2.51 kg 5.45 lbs./2.47 kg
travel	6.3 in. / 160 mm
features/adjustments RC2	low-speed compression, high-speed compression, hydraulic bottom-out in damper, coil spring *preload*, rebound
features/adjustments R	hydraulic bottom-out in damper, coil spring preload, rebound
spring/damper type	steel spring/RC2 FIT damper
intended use	*downhill*, *all-mountain*, *freeride*
color	Black Diamond

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

1. Check that the 20mm axle pinch bolts and crown pinch bolts are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

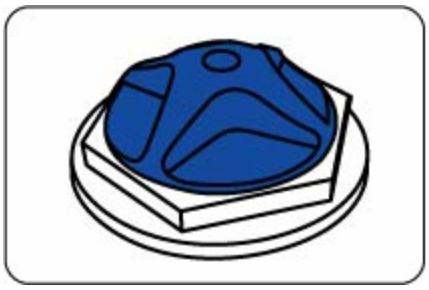
You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust *sag*. Generally, sag should be set to 15 – 25% of total fork travel.

1. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
2. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
3. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
4. Compare your sag measurement to the Sag Setup table below.

If sag is lower than in the table, turn the preload knob (shown below) counter-clockwise one (1) full turn. Measure sag again and repeat adjustment if necessary.

If sag is higher than in the table, turn the preload knob *clockwise* one (1) full turn. Measure sag again and repeat adjustment if necessary. If correct sag cannot be achieved by adjusting the preload knob, see the 36 VAN Coil Spring Settings table below. You may need to change to a coil spring with a different *spring rate*.



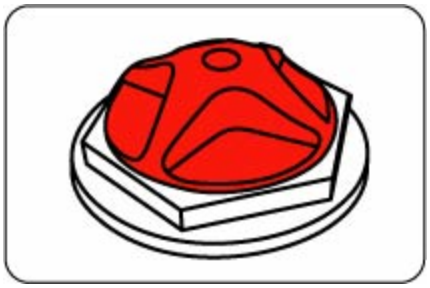
36 VAN COIL SPRING SETTING GUIDELINES				
FOX Part #	**Spring Rate**	**Color Code**	**Travel Range**	**Rider Weight Lbs.**
039-05-050	35 lb/in	Black	160	<90–115
039-05-051	40 lb/in	Purple	160	115–155
039-05-052	45 lb/in	Blue	160	150–180
039-05-053	50 lb/in	Green	160	175–210
039-05-054	55 lb/in	Yellow	160	205–240+

SAG SETUP		
Travel	**Race FIRM**	**Freeride PLUSH**
160 mm (6.3")	24mm (15/16")	40mm (1.5")

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	Change to higher rate coil spring
Too little sag	Change to lower rate coil spring
Excessive bottoming	Change to higher rate coil spring
Harsh ride; full travel not utilized	Change to lower rate coil spring

Adjusting Rebound

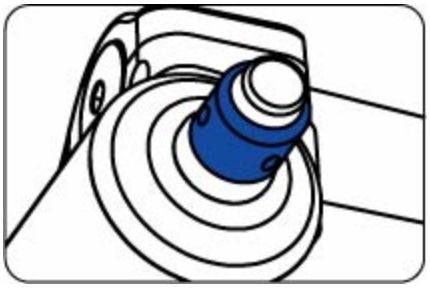
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KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
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8 (Factory setting)	**Average Rebound**		
15	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Adjusting High-Speed Compression (RC2 only)

High-speed *compression damping* controls the force it takes to move the fork through its travel and how the wheel reacts to a bump. This adjuster rotates to stops at each end and has 15 clicks of adjustment. It is preset from the factory at 1 click in from the full out (counterclockwise) position. The knob is protected by the black protective cap. Never ride your FOX 36 without the black protective cap.



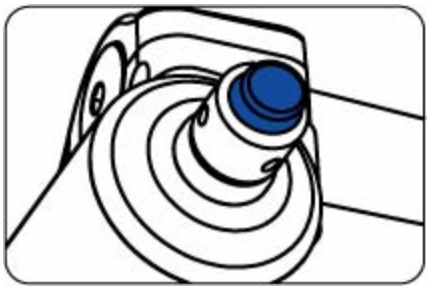
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Adjusting Low-Speed Compression (RC2 only)

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Hydraulic Bottom-Out System

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Changing the Coil Spring

1. With a 32mm 6-point socket wrench, loosen and remove the preload topcap (top of left leg).
2. Compress the fork slightly and remove the coil spring. You may need to firmly pull up on the spring to disengage it from the plunger shaft.
3. Wipe the spring dry with a rag and check its color code.
4. Install the new spring by dropping it into the upper tube, then torque the top cap to 165 in-lbs (1864 N-cm).
5. Rotate the fork to a horizontal position and shake it. This lubricates the spring before its first push into travel.
6. Measure and set sag.

WHEREVER YOU RIDE.



Bushing Technology & Inspection | Seals & Foam Rings | Control Direction | Oil Volumes | Structural Inspection | Dropout Thickness Inspection | Torque Values | Unit Conversion | Suspension Tuning Tips | Using the Pump | Important Safety Information | Service Intervals | Distributors & Global Service Centers | Contact FOX | Warranty Information

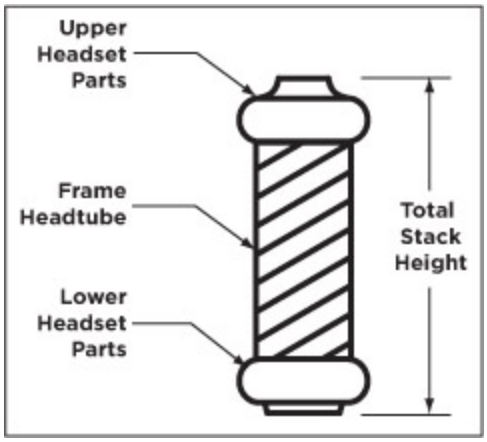
INSTALLING THE 40

You can also view a Flash video of the 40 Installation.

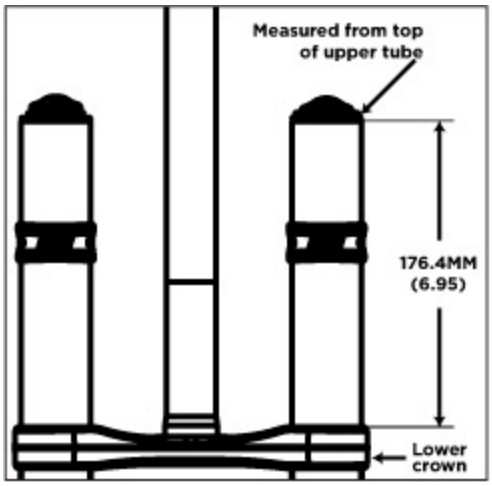
The 40 is available in two upper crown sizes to cover the varying range of headset tube dimensions. Measure the total stack height (see the figure below) to determine the proper upper crown size.

For total stack heights of 90 – 165 mm, your 40 should have the SMALL-LARGE UPPER CROWN.

For total stack heights of 165 – 181 mm, your 40 should have the EXTRA LARGE UPPER CROWN.



Have a qualified bicycle mechanic install the 40. Improperly installed forks are dangerous and can cause loss of control and serious or fatal injuries. The 40 is assembled with the lower crown set to 176.4mm below the top of the upper tubes. The lower crown position is set to allow a 6mm clearance between the bottom of the crown and the top of a 2.80" tire when bottomed out. Do not change the position of the lower crown.



1. **Remove fork and install crown race:**
   a. Place the bicycle in a repair stand.
   b. Remove the existing fork from the bicycle.
   c. Remove the crown race from the old fork with a crown race removal tool and install it with a crown race setter tool onto the new 40. The crown race must be firmly seated against the top surface of the lower crown.

If the steerer has any nicks or gouges, the crown/steerer assembly must be replaced. A nick or gouge can cause the steerer to fail prematurely, which can cause loss of control of the bicycle resulting in serious or fatal injuries.

2. **Cut steerer to proper length:**
   a. Install the fork on the bicycle with all of the headset parts and upper crown. The deep pocketed side of the upper crown faces downward on the bicycle.
   b. After eliminating play in the headset, lightly tighten the steerer pinch bolt on the upper crown with a 5mm hex wrench.

c. Install the headset spacers (not required) and stem on the steerer and lightly tighten the stem pinch bolt(s).

d. Mark the steerer with a scribe at the top edge of the stem.

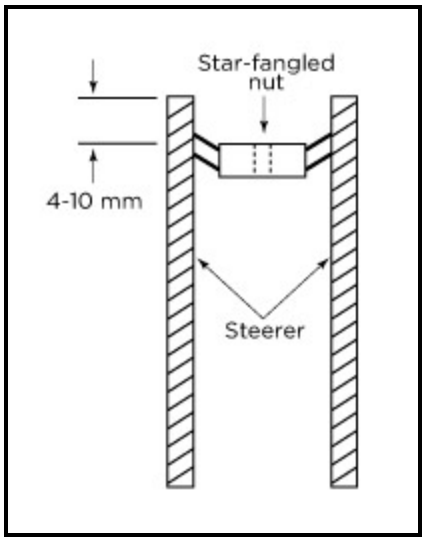
e. Remove the 40 from the bicycle and cut the steerer 3mm below the scribed mark. This 3mm clearance allows room for the stem cap to lightly tension the headset and eliminate any play.

f. Use a flat file to deburr the outer and inner top edges of the newly cut steerer.

3. **Install star-fangled nut and steering stop bumpers:**

a. With a star-fangled nut installation tool, install the star-fangled nut into the steerer to the proper depth (see Star-fangled nut installation depth diagram below).

b. Install one steering stop bumper onto each uppertube and place midway on the uppertube.



Star-fangled nut installation depth

4. **Installing fork onto bicycle:**

a. Install the 40 on the bicycle with all of the headset parts and upper crown.

b. Install stem, stem cap and M6 stem cap bolt.

c. With all three upper crown bolts loosened, lightly tighten the headset stem cap bolt to remove play in the system so that it turns freely without drag.

d. With a 5mm hex key socket and torque wrench, torque all three upper crown bolts (see figure below) to 65 in-lb.

e. Check that the torque on the four lower crown bolts (see figure below) is at 65 in-lb. **Do not over-torque** the pinch bolts. Over-torquing can damage the bolt(s), fracture the crown or damage the threads, and can cause failure of the fork and loss of control with serious or fatal injuries.

Tire Sizes

5. The 40 will accept tire sizes up to 2.80 inches wide. Any tire larger than 26 x 2.60 must be checked for clearance using the following method.

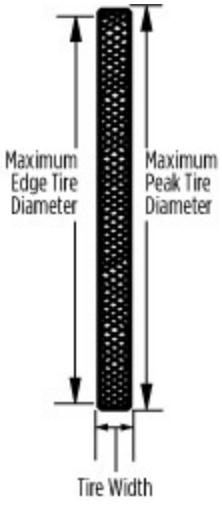
Determining correct tire size

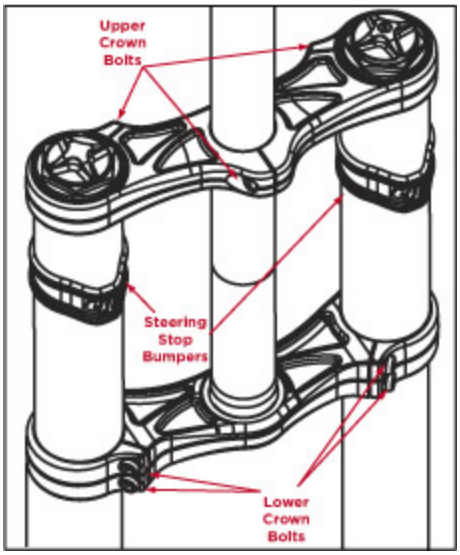
a. With the tire installed and inflated on the rim, measure the following three dimensions:

Maximum Peak Tire Diameter = 694 mm = 27.3 inch

Maximum Edge Tire Diameter = 670 mm = 26.41 inch

Maximum Tire Width = 71 mm = 2.80 inch





Do not use a tire if any measurement exceeds the maximum dimensions shown above. Using larger tires is not recommended and can cause serious or fatal injuries.

6. **Installing the front wheel:**
   a. Loosen the 4 axle pinch bolts on the lower leg with a 5mm hex key wrench.
   b. Using a 5mm hex key wrench, turn counterclockwise to loosen and remove the axle.
   c. Install the front wheel into the dropouts and install the axle into the lower leg.
   d. Using a 5mm hex key wrench, turn clockwise and lightly tighten and torque the axle to the lower leg to 19 in-lb (215 N-cm).
   e. Torque the two left side dropout pinch-bolts to 19 in-lb (215 N-cm).
   f. Compress the fork on the bike a couple of times to let the right side of the dropout float and settle to its low-friction point. Torque the two right side dropout pinch-bolts to 19 in-lb (215 N-cm).
7. **Setting handlebars straight and torquing stem bolts:**
   a. Set the bike on the ground and sit on your bike to set the handlebars straight relative to the front wheel.
   b. Tighten the stem pinch bolts and torque fasteners according to the stem manufacturer's specifications.
   c. Check that the handlebar pinch bolts are torqued to the stem manufacturer's specifications.
8. **Adjusting position of the steering stop bumpers:**
   a. Adjust the height and angle of the steering stop bumpers on the upper tubes so that you have the maximum turning angle, and protect your frame and upper tubes from denting during a crash.
   b. Depending on the shape and size of the frame tubes, you may need to use the tall part of the bumper to contact the frame tubes (see figure below).

Disc Brake Installation

The 40 is designed only for use with DH disc brakes with disc rotor sizes of 200 – 225 mm. The 40 can use DH mechanical or hydraulic brake systems.

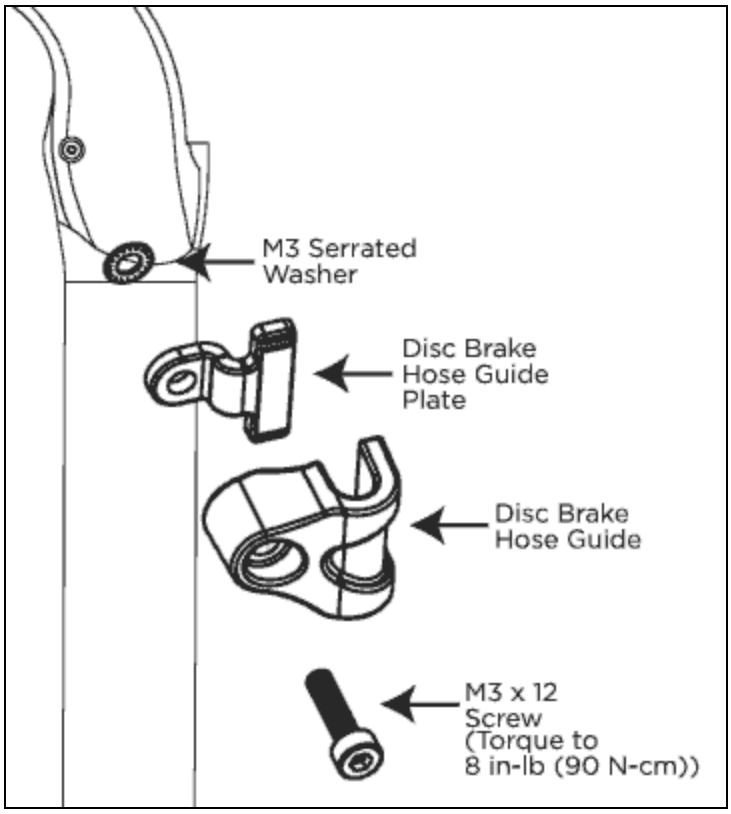
Never modify the lower leg or use cantilever rim brakes.

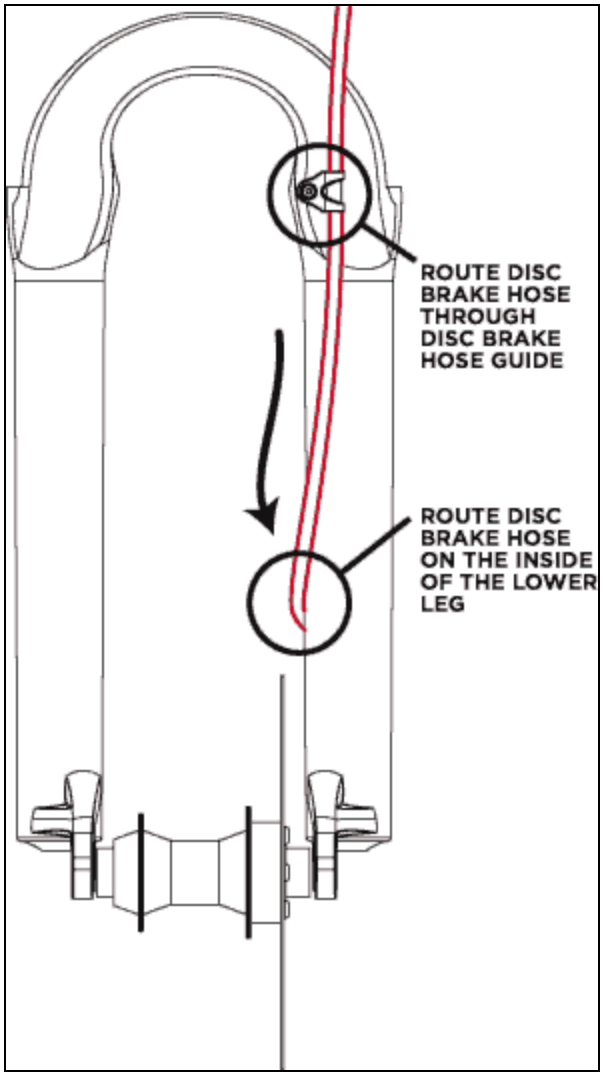
The 40 disc bolt pattern uses:

- XC Caliper
- XC Caliper Mount for International XC mount pattern
- DH Size Rotor (200 – 225 mm outside diameter)

9. Install DH disc brake system according to disc brake manufacturer's specifications.
10. Be sure to torque all fasteners and bolts to manufacturer's recommendations. Consult the instructions that came with your disc brakes for proper installation procedures. It is recommended that NEW disc brake pads be installed to ensure proper alignment and to minimize drag.
11. Test brakes for proper operation on flat land before hitting the trails.
12. Route the disc brake hose (for hydraulic disc brakes) or brake cable housing (for mechanical disc brakes) from the caliper to the inside of the lower leg and through the supplied disc brake hose guide as shown in the figure below.

13. Assemble the supplied disc brake hose guide parts as shown in the figure below.
14. Tighten the disc brake hose guide screw with a 2.5 mm-hex key wrench and torque to 8 in-lb (90 N-cm).





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40 RC2 & R

Installing Your Fork | Before You Ride | Setting Sag | Adjusting Rebound | Adjusting High-Speed Compression | Adjusting Low-Speed Compression | Changing the Coil Spring | Changing Travel | Changing Oil | Service Intervals | Important Safety Information



weight RC2 **weight R**	6.88 lbs./3.12 kg 6.81 lbs./3.09 kg
travel	8 in. / 203 mm - 6 in. / 178 mm adjustable in ½-inch increments
features/adjustments RC2	internally adjustable travel, low-speed compression, high-speed compression, hydraulic bottom-out in damper, coil spring *preload*, rebound
features/adjustments R	internally adjustable travel, hydraulic bottom-out in damper, coil spring preload, rebound
spring/damper type	titanium spring/RC2 FIT damper
intended use	*downhill*, *freeride*
color	Titanium

Installing Your Fork

Be sure your fork is properly installed before proceeding. Clicking on the link above will take you to a new page.

Before You Ride

1. Check that the 20mm axle pinch bolts and crown pinch bolts are properly adjusted and tightened.
2. Clean the outside of your fork with soap and water and wipe dry with a soft dry rag. Do not spray water directly on the seal/upper tube junction. **Do not use a high pressure washer on your fork.**
3. Inspect entire exterior of fork for damage. The fork should not be used if any of the exterior parts appear to be damaged. Please contact your local dealer or FOX Racing Shox for further inspection and repair.
4. Check headset adjustment. If loose, adjust according to manufacturer's recommendations.
5. Check that brake cables or hoses are properly fastened.
6. Check that the front and rear brakes operate properly on flat land.

Setting Sag

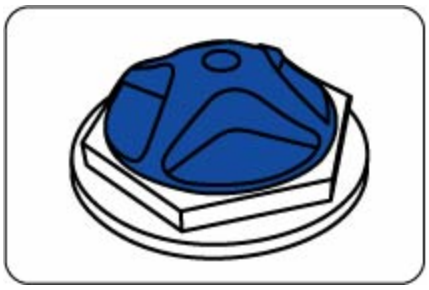
You can also view a Flash video on Setting Sag.

To get the best performance from your fork, it is necessary to set and adjust *sag*. Generally, sag should be set to 15 – 25% of total fork travel.

1. Install a zip tie with light friction on the upper tube and push it down until it contacts the fork seal.
2. Carefully sit on the bike and assume a normal riding position. The fork should compress slightly.
3. Being careful not to further compress the fork, dismount the bicycle. Measure the distance between the seal and the zip tie. This distance is sag.
4. Compare your sag measurement to the Sag Setup table below.

If sag is lower than in the table, turn the preload knob (shown below) counter-clockwise one (1) full turn. Measure sag again and repeat adjustment if necessary.

If sag is higher than in the table, turn the preload knob *clockwise* one (1) full turn. Measure sag again and repeat adjustment if necessary. If correct sag cannot be achieved by adjusting the preload knob, see the Coil Spring Settings table below. You may need to obtain a coil with a different *spring rate*.



40 COIL SPRING SETTINGS			
FOX Part #	**Spring Rate**	**Color Code**	**Rider Weight (lbs.)**
039-05-070	30 lb/in	Black	< 90 – 120
039-05-071	35 lb/in	Purple	120 – 150
039-05-072	40 lb/in	Blue	150 –180
039-05-063	45 lb/in	Green	180 – 210
039-05-074	50 lb/in	Yellow	210 – > 240

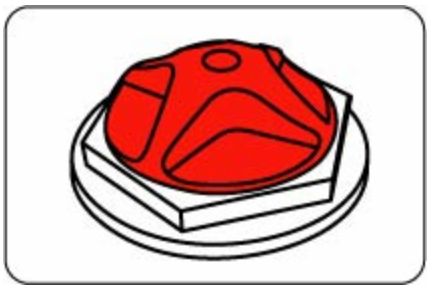
SAG SETUP	
Travel	**15 - 25% Sag**
6 in. (152mm)	0.9 - 1.5 in. (23 - 38 mm)
6.5 in. (165mm)	1.0 - 1.6 in. (25 - 41 mm)
7 in. (178mm)	1.1 - 1.8 in. (27 - 45 mm)
7.5 in. (191mm)	1.1 - 1.9 in. (29 - 48 mm)
8 in. (203mm)	1.2 - 2.0 in. (30 - 51 mm)

SAG TROUBLESHOOTING	
Symptom	**Remedy**
Too much sag	Change to higher rate coil spring

Too little sag	Change to lower rate coil spring
Excessive bottoming	Change to higher rate coil spring
Harsh ride; full travel not utilized	Change to lower rate coil spring

Adjusting Rebound

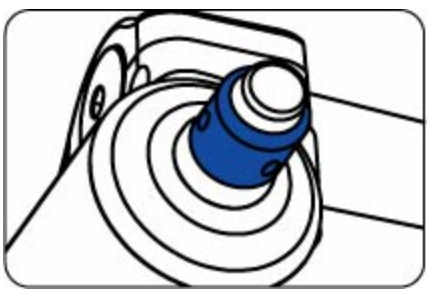
The rebound knob (shown below) is located on the top of the right fork leg, and has 15 clicks of adjustment. Rebound controls the speed at which the fork extends after compressing. Turning the knob clockwise slows down rebound; turning the knob counterclockwise speeds up rebound. As a starting point, turn the rebound adjuster knob all the way clockwise (full in) until it stops, then turn counterclockwise (out) 8 clicks.



KNOB SETTING (CLICKS OUT FROM FULL IN)	SETTING DESCRIPTION	TUNING TIPS	SETUP TIPS
1	Slow Rebound	Too slow and your fork will pack down and ride harsh.	If you increase your spring rate or air pressure, you will need to slow down your rebound
8 (Factory setting)	Average Rebound		
15	Fast Rebound	Too fast and you will experience poor traction and wheel hop.	If you decrease your spring rate or air pressure, you will need to speed up your rebound setting.

Adjusting High-Speed Compression **(RC2 only)**

High-speed *compression damping* controls the force it takes to move the fork through its travel and how the wheel reacts to a bump. This adjuster rotates to stops at each end and has 15 clicks of adjustment. It is preset from the factory at 1 click in from the full out (counterclockwise) position. The knob is protected by the black protective cap. Never ride your FOX 36 without the black protective cap.



KNOB SETTING (CLICKS IN FROM FULL OUT)	SETTING DESCRIPTION	TUNING TIPS
1	Slow Compression	Maximum wheel traction and bump compliance. If setting is too soft, you may bottom often on square-edged hits and G-outs.
1	**Average Compression**	

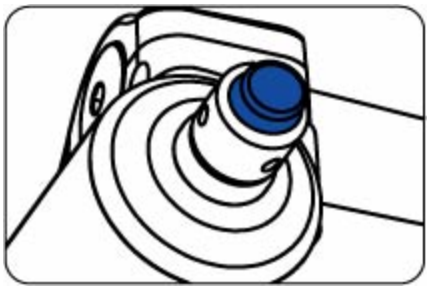
(Factory setting)		
15	Firm Compression	Reduces bottom-out and provides maximum bump absorption. If setting is too firm, you may experience a harsh ride with bad traction and use too little available travel.

"Boost" Feature of the High-Speed Compression Adjuster (RC2 only)

The high-speed compression adjuster is equipped with a maximum “Boost” setting. This setting offers increased bump force resistance well beyond the adjuster's linear range up until the stop at full firm (clockwise). To enable the “Boost” feature, turn the high-speed compression knob to the full in (clockwise) position, to the stop with firm hand torque. You can use a 3mm hex key to assist in turning the knob to the full in position or to untorque when de-turning the Boost feature.

Adjusting Low-Speed Compression (RC2 only)

Low-speed compression damping controls the influence of the rider’s weight shifts and bike attitude under braking. This adjuster rotates to stops at each end and has 17 clicks of adjustment. It is preset from the factory at 1 click in from the full out (counterclockwise) position. The knob is protected by the black protective cap. Never ride your FOX 36 without the black protective cap.



KNOB SETTING (CLICKS IN FROM FULL OUT)	SETTING DESCRIPTION	TUNING TIPS
1	Slow Compression	Maximum wheel traction and bump compliance. Too soft and you maybe have excessive brake dive and wallowy feel.
1 **(Factory setting)**	**Average Compression**	
17	Firm Compression	Resists brake dive and keeps the fork up in the travel. Too firm and you may have poor traction in loose conditions.

Hydraulic Bottom-Out System

The 40 is equipped with a patent-pending Internally Adjustable Hydraulic Bottom-Out Control System. This feature can be adjusted inside the cartridge by FOX Racing Shox or an Authorized Service Center. It comes preset from the factory at the FIRM setting.

Changing the Coil Spring

1. With a 32mm 6-point socket wrench, loosen and remove the preload top cap (top of left leg).
2. Remove the black spring spacers (4 spacers for 8 in./203mm travel, 3 for 7.5 in./191mm mm travel, 2 for 7 in./178mm travel, 1 for 6.5 in./165mm travel, and 0 for 6 in./152mm travel).
3. Compress the fork slightly and remove the coil spring. You may need to firmly pull up on the spring to disengage it from the plunger shaft.
4. Wipe the spring dry with a rag and check the color code.
5. Install the new spring by dropping it into the upper tube.

6. Install the appropriate spacers according to your desired travel, then torque the top cap to 165 in-lbs (1864 N-cm).
7. Measure and set sag.

Changing Travel

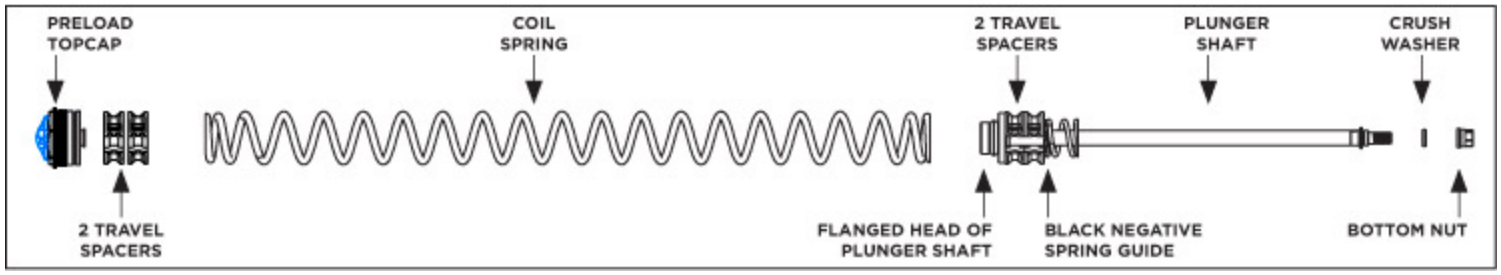
Travel on the 40 can be changed from 8” to 6” in 1/2” increments by rearranging the four internal travel spacers inside the left leg of the fork. With the proper tools and oil, changing travel can be done in about 15 minutes.

The following tools and supplies will be needed: A 32mm 6-point socket, 10mm open end wrench or socket, torque wrench, plastic hammer, oil drain pan, clean dry lint-free towels, measuring container, as well as the following:

Quantity	Part Number	Part Name
1	025-03-004-A	1 qt. bottle of Fox Suspension Fluid (7 wt.)

1. The fork does not have to be removed from the bicycle for changing travel.
2. Place the bicycle (or fork, if removed) in a bike stand.
3. Using a 32mm socket wrench, remove the left side topcap.
4. Remove the spacer(s) on top of the coil spring (4 spacers for 8”, 3 spacers for 7.5”, 2 spacers for 7”, 1 spacer for 6.5”, 0 spacers for 6”).2.
5. Using a 10mm socket wrench, unscrew the left side bottom nut 6 turns.
6. Place a clean dry oil pan underneath the left side of the fork.
7. Tap on the bottom nut with a plastic faced hammer to disengage the plunger shaft from the lower leg.
8. Unscrew and remove the bottom nut and crush washer.
9. Push up on the shaft with a thin screwdriver and let the oil drain.
10. Compress the fork and pull the coil spring/plunger shaft assembly out of the top of the left side upper tube.
11. Pull the coil spring off the plunger assembly.
12. Looking at the table below, determine the number of travel spacer(s) needed on the plunger shaft for your desired travel.
13. Slide the black negative spring guide away from the flanged head of the aluminum plunger shaft.
14. Push and snap on the correct number of the travel spacers to the plunger shaft and slide back the black negative spring guide against the spacers.

TRAVEL SPACER SETTINGS		
Travel Setting	**# of Spacers Under Topcap**	**# of Spacers on Plunger Shaft**
8.0" (203mm)	4	0
7.5" (190mm)	3	1
7.0" (178mm)	2	2
6.5" (165mm)	1	3
6.0" (152mm)	0	4



15. Push and snap on the coil spring to the plunger shaft assembly.
16. Install the coil spring/plunger shaft assembly into the top of the left side upper tube. Install the correct number of spacers on top of the coil spring and thread the topcap into the upper tube.
17. Remove the bicycle from bike stand and turn the bike upside down.
18. Using a thin screwdriver and sliding the lower leg up or down, push and align the plunger shaft so that it is aligned and comes through the hole in the lower leg.

19. Once aligned, push the lower leg down and install the crush washer and bottom nut.
20. Using a 10mm socket and torque wrench, torque the bottom nut to 50 in-lb (565 N-cm).
21. Turn the bike right side up and place it back into the bike stand.
22. Remove the left side preload topcap and pour in 40 cc of FOX Suspension Fluid (7 wt.).
23. Install and torque the preload topcap to 165 in-lb (1864 N-cm).
24. After changing the travel, compress the fork a few times and check for proper operation before riding—there should be no free movement or play in travel. If there is free movement in the fork or if it makes strange noises, disassemble the fork and check that all four spacers are in the fork and in the correct orientation for the desired travel.
25. Go ride.

Changing Oil

The following tools and supplies will be needed: A 32mm 6-point socket, 10mm open end wrench or socket, 15mm deep 6-point socket, torque wrench, 2mm hex key wrench (RC2 only), plastic hammer, small screwdriver, oil drain pan, clean dry lint-free towels, as well as the following:

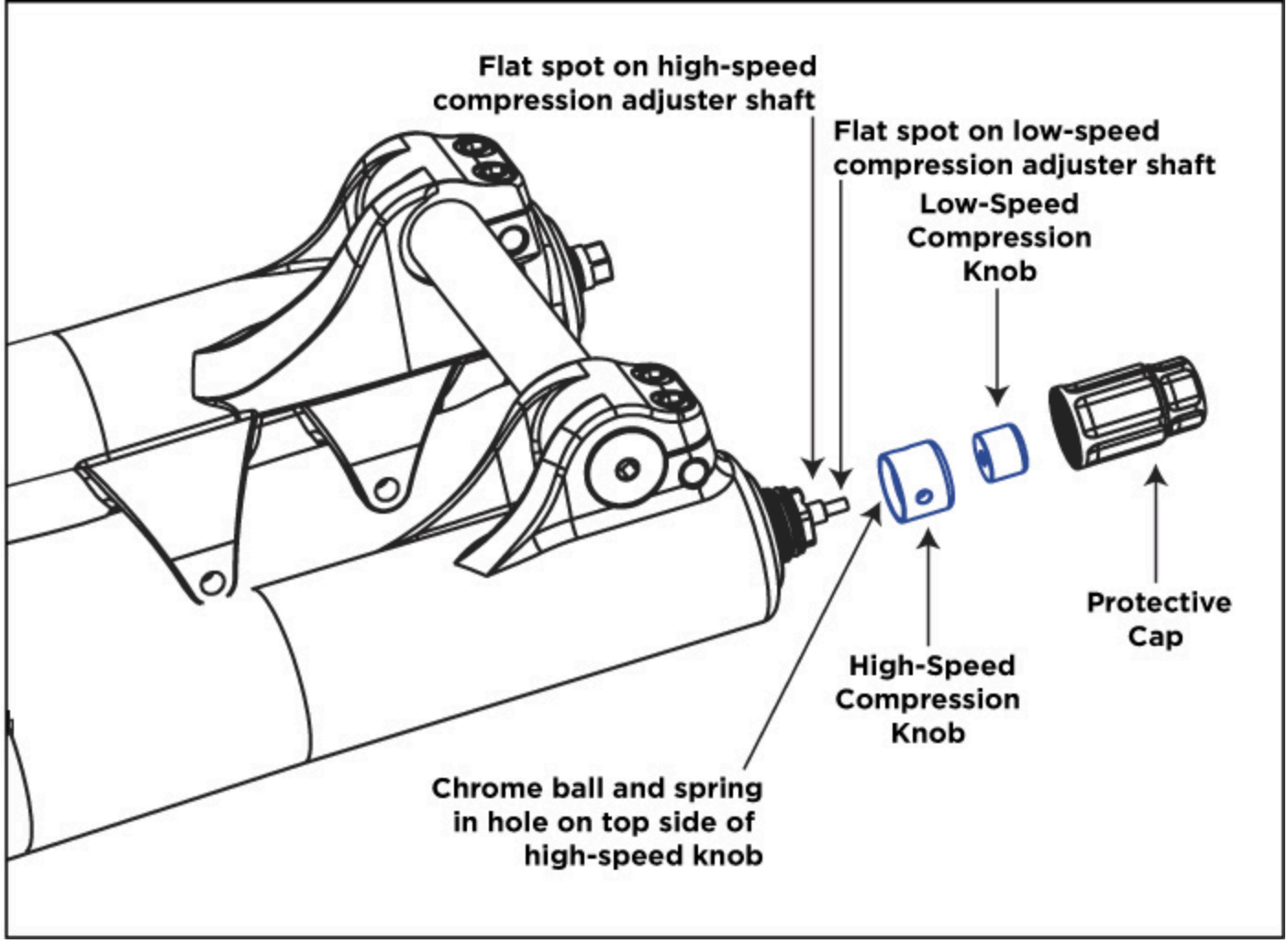
Quantity	Part Number	Part Name
1	025-03-004-A	1 qt. bottle of Fox Suspension Fluid (7 wt.)
1	241-01-002-C	8mm Crush washer
1	241-01-011	13mm Crush Washer

Oil change on the FOX 40 RC2 or R fork consists of changing the lower leg oil bath in each leg. This oil bath service can be performed with the common tools listed above, and the fork does not have to be removed from the bicycle. This service will not require any disassembly of the closed RC2 or R cartridge.

Do not attempt to disassemble the FOX 40 RC2 or R Closed Cartridge System. Only FOX Racing Shox or an Authorized Service Center should perform such a procedure.

1. Place the bicycle or fork in a stand.
2. Remove the disc brake caliper from the lower leg and secure it to the handlebars or frame.
3. Using a 5mm hex key wrench, loosen the four axle pinch bolts.
4. Using a 5mm hex key wrench, unscrew the axle five full revolutions counterclockwise and remove from the lower leg.
5. Remove the front wheel from the bike.
6. Place a clean dry oil pan underneath the left side of the fork. Using a 10mm open-end wrench or socket, loosen the bottom nut 6 full turns.
7. Tap on the bottom nut with a plastic faced hammer to disengage the plunger shaft from the lower leg.
8. Unscrew and remove the bottom nut and 8mm crush washer. Pull the lower leg downward until you feel it stop. Let the oil drain into the oil pan.
9. **RC2 ONLY:** Unscrew and remove the black protective cap. Using a 2mm hex key wrench, unscrew the set-screw approximately two turns and remove the low-speed compression adjuster knob. Using a 2mm hex key wrench, unscrew the set-screw approximately two turns and remove the high-speed compression adjuster knob.

The 1/8” diameter chrome steel detent ball and detent spring are in the machined hole in the high-speed compression adjuster knob.



10. Using a 15mm deep socket wrench, unscrew the bottom nut four turns. Place a clean dry oil pan underneath the right side of the fork.
11. Using a 15mm deep socket on the bottom nut (to protect the adjusters), tap on the bottom nut with a plastic hammer to disengage the base stud from the lower leg.
12. Remove the bottom nut and 13mm crush washer from the base stud and set them aside.
13. Push up on the base stud to let the oil bath oil drain out of the fork into the drain pan. If the oil looks black or a dark gray, flush both sides of the lower leg with clean oil.
14. To flush the lower leg, turn the fork upside-down and add about 20cc of oil into each leg. If the fork is off the bike, you can move it around to get the clean oil all over the inside of the fork. Let the fork drain into the drain pan until it stops dripping.
15. Turn the bike or fork upside-down, pull up on the lower leg and add 40cc of FOX Suspension Fluid (7 wt) into the right-side bottom hole (damper side) of the lower leg. Keeping the lower leg in the up position, add 40cc of FOX Suspension Fluid (7 wt) into the left-side bottom hole (spring side) of the lower leg.
16. Slide the lower leg down until you can put on a NEW right-side 13mm crush washer with the old bottom nut. Thread on the bottom nut (2 to 3 turns max).
17. Using a 15mm deep 6-point socket, torque the cartridge bottom nut to 50 in-lb.
18. Slide the lower leg down further so the plunger stud on the left side of the fork goes through the hole of the lower leg. You may need to use a thin screwdriver to move and align the plunger shaft so that it goes through the hole of the lower leg.
19. Install a NEW left-side 8mm crush washer with the old bottom nut. Thread on the bottom nut (2 to 3 turns max).
20. Using a 10mm socket, torque the plunger bottom nut to 50 in-lb.
21. **RC2 ONLY:** Turn the bicycle right side up. Look at the two compression adjuster shafts on the bottom of the right side damper. If you cannot find both flat spots, rotate the adjuster shaft by lightly turning the shaft with needle nose pliers (see figure above). Using a 2mm hex key wrench, align and install the RC2 high-speed compression adjuster knob so that the set screw tightens on the flat spot of the shaft. Be careful that the detent spring and chrome steel ball are in the top-side of the machined hole. Be careful not to over-torque this knob because it will cause the knobs to bind. Now align and install the RC2 low-speed compression adjuster knob so that the set screw tightens on the flat spot of the shaft. The torque for both compression knobs is 4 in-lb. Turn the knobs to make sure they turn freely and install the black protective cap.
22. Wipe down the lower leg. Reinstall your disc brake caliper and torque fasteners to disc brake manufacturer's specifications. Using a 5mm hex key socket and torque wrench, reinstall the front wheel and thread in the axle and torque to 19 in-lb. Tighten the 2 left-side axle pinch bolts and torque to 19 in-lb. Compress the fork a few times to allow the right side of the fork leg to settle into its low friction spot. Tighten the 2 right side axle pinch bolts and torque to 19 in-lb. Your oil change is complete. Now go ride!

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SETTING SAG VIDEO (FORKS)

You must have the Flash player plug-in installed on your computer to view the video below.

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