Honda Pioneer 2-1/4” Lift Kit

Honda Pioneer 1000/1000-5 | 2016-2018

Part #: 5103225

Rev. 032718

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SAFETY WARNING

RT Pro UTV recommends this system be installed by a professional technician. In addition to these instructions, professional knowledge of disassembly/ reassembly procedures and post installation checks must be known.

WHY BUY RT PRO UTV

Great off-road driving and racing comes with having the most rugged and durable machine in the pack.

RT Pro UTV performance enhancing products will make your off-road machine stronger, tougher and safer so you can have more fun and less breakdowns.

For over a decade, RT Pro UTV staff have been taking brand new UTVs and driving them to their breaking point. When they bend, break or falter, we take them back to shop and create a fix that stops the problem from happening again.

There is no other company in the industry that puts more thought, engineering and design innovation into their products than we do. Our team is made up of off-road racers, mechanical engineers and talented fabricators who live and breathe all things motorsport. Above all, we share a passion for innovation, quality construction and getting things right.

All of our products are designed for assembly by weekend warriors with normal garage tools and the occasional spot-weld. Assembly directions are complete and thorough.

Remember, when you buy a RT Pro UTV product for your UTV, all of the parts have been designed and manufactured in the United States with U.S. steel and other high quality American components.

RTP5103225		
Part #	**Description**	**QTY**
04656	Shock Preload Spacer	2
04643	Rear Lift Bracket	2
04644	Front Lift Bracket	1

RTP5103225 Bolt Pack		
Part #	**Description**	**QTY**
R192	Bolt Pack	1
	M12-1.75 x 65mm hex bolt	12
	M12-1.75 x 70mm hex bolt	2
	M12 flat washer	28
	M12-1.75 nylock nut	14

FITMENT NOTES

Run up to 28" tires
Works with Stock Wheels and tires
Front Lift Channel Side-steps Factory Mount

SPECIAL TOOLS

Spring Compressor

INSTALLATION TIME

Approximately 2 hours
EASY Difficulty

INSTALLATION INSTRUCTIONS

1. Park vehicle on a clean, level floor. Measure the front and rear of the vehicle from a repeatable location on the frame down to the floor. We found that measuring the bottom of the frame beneath the control arms gave us a good flat location to check.

   **Note: The lift kit will give you 2-1/4" from this measurment. Due to factory variences such as spring sagging, ride height may vary between vehicles.*

2. Ensure the vehicle is shifted into park. Starting at the rear, use a floor jack in a secure location on the frame to lift the vehicle so the rear tires are at least 2 inches off the ground.

3. Place jack stands under the vehicle. Make sure the jack stands are placed securely under a frame channel and will not obstuct the control arms from cycling downward. Lower the vehicle onto jack stands and ensure vehicle is secure by pushing on the vehicle slightly back and forth. Sometimes the vehicle can slip off the jack stands if they are placed under a plastic skid plate.

4. Remove the rear tires.

5. Remove the rear shock from control arm and upper shock mount on the frame. Upper and lower hardware uses 17mm 6-point tooling. Note the direction of the shocks as they will be installed in the same direction.

6. Install the rear lift brackets by sliding them between the factory upper shock mounts. The wider part of the lift bracket should fit in the frame below the factory upper shock mount. (Fig. 1)

Figure 1

7. Install provided M12-1.75 x 70mm bolts through the frame and into the slotted bottom hole of the bracket. Torque hardware to 55 ft-lbs

   **Note: All hardware uses M12 flat washers on either side of the mounting location to protect painted surfaces from chipping when tightening.*

8. Install provided M12-1.75 x 65mm bolts through factory shock mount location. Torque hardware to 55 ft-lbs.

9. Install the rear shocks. Ensure the direction of the shock is the same as when removed (shock body down for standard shocks) Use provided M12-1.75 x 65mm hardware on upper and lower shock mounts.

10. Torque upper and lower shock mount hardware to 55 ft-lbs.

11. Install rear tires and torque lug nuts to factory specs..

12. Using a floor jack, lift the rear of the vehicle, remove jack stands, and lower vehicle to the ground.

FRONT INSTRUCTIONS

13. Use a floor jack in a secure location on the frame to lift up the vehicle so the front tires are at least 2 inches off the ground.

14. Place jack stands under the vehicle. Make sure jack stands are placed securly under a frame channel and will not obstuct the control arms from cycling downward. Lower the vehicle onto jack stands and ensure veheicle is secure by pushing on the vehicle slightly back and forth. Sometimes the vehicle can slip off the jack stands if they are placed under a plastic skid plate.

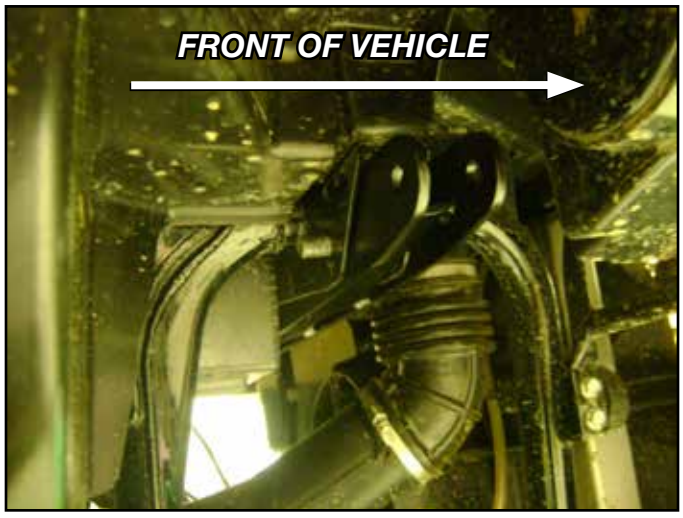
15. Remove the front tires.

16. Remove the front shock from control arm and upper shock mount on the frame. Upper and lower hardware uses 17mm 6-point tooling. Note the direction of the shocks as they will be installed in the same direction.

17. Once both shocks are removed, install the front lift channel.

    VERY IMPORTANT: The front lift channel side-steps the factory mount. Simply put the center of the lift channel over the front tabs of the upper shock mounts. There is a relief cut in the center of the channel that must be positioned forward so it locates the front tabs of the upper shock mount. The lift channel then sits in front of the rear tab of the upper factory shock mount. (FIg. 2)

Figure 2



18. Align the two center holes of the lift channel with the factory upper shock mounts and install provided M12-1.75 x 65 mm hardware. Torque hardware to 55 ft/lbs.

STANDARD SHOCKS (FOX SHOCK SKIP TO STEP 22)

19. Using a spring compressor, remove the spring assembly from the front shocks. When disassembled, you should have the shock, spring, shaft guard, and spring retainer seperated.

20. To install the preload spacer, slide the shaft guard through the spacer and then slide the shaft guard into the spring. The spacer should now sit between the spring and the shoulder of the shaft guard. (Fig. 3)

Figure 3

21. Compress the spring with a spring compressor and reinstall the spring assembly.

FOX QS-3 SHOCKS

22. For the Fox QS-3 shocks, you do not use the provided preload spacer, Instead use the following steps to add the recommended preload to the shocks.
23. Ensure the threads of the shocks are clean from dirt or debree.
24. Measure the overall spring length. This is the distance from the top to the bottom of the actual coil, not including the shaft guard or spanner nuts.
25. Using a spanner wrench, loosen the top spanner nut from the bottom spanner nut.
26. Tighten the bottom spanner nut a distance of 9/16". Your goal is for your spring length to be 9/16" less then what was measured in step 24.
27. Once you've added the 9/16" preload to your spring, tighten the top spanner nut down to the lower spanner nut and tighten together.

ALL SHOCKS

28. Install the front shocks. Ensure the direction of the shock is the same as when removed (shock body down for standard shocks) Use provided M12-1.75 x 65mm hardware on upper and lower shock mounts. Torque upper and lower shock mount hardware to 55 ft/lbs
29. Install the front tires and torque lug nuts to factory specs.
30. Using a floor jack, lift the front of the vehicle, remove the jack stands, and lower the vehicle to the ground.
31. Check all mounting hardware and torque to provided specifications.
32. Drive vehicle around to settle the suspension. Simply jumping up and down on the front and rear of the vehicle will not suffice.
33. Measure front and rear as you did in step 1. Ensure that you have acheieved approximatly 2-1/4" of lift. This may slightly vary if you are running wheel spacers or have wheel offsets that differ from stock.

THANK YOU FOR YOUR BUSINESS!

For questions or additional information feel free to call and ask for tech support or email us through our website at: rtproutv.com/contact

Show Us Your Ride!

Get a photo of your RT Pro UTV equipped vehicle and send them in for a chance to be featured in our customer gallery!