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2020-2025 Indian Challenger/Pursuit Handling Concern

Concern: A 2020-2025 Indian Challenger/Pursuit has a front wheel shake or wobble during deceleration.

Troubleshooting and Resolution: Indian Motorcycle strongly advises riders to keep both hands on the handlebars at all times while operating the motorcycle. A wobble or shaking of the front end during deceleration can be caused by several factors, including tire wear or pressure, suspension sag, steering bearing torque and road conditions. Even though the motorcycle's frame and steering angle stay the same, changes in weight distribution and the forces from the spinning wheels can make the bike unstable at certain speeds. Maintaining a normal grip on the handlebars usually helps prevent this kind of wobble or shaking in the front end.

If the motorcycle handling responds unexpectedly, the following steps can be followed to minimize the concern.

Refer to the Service Manual (<https://service.polarisportal.com/STOP/Files/Index/3>) for specifications.

1. Verify the rear shock preload is correct. Adjust as needed.
2. Verify correct tire pressure. Adjust as needed.
3. Verify all front and rear parts are OEM parts. Install parts as needed.
 - Tires
 - Suspension components
 - Handlebars: Verify they are OEM handlebars with OEM bar weights. Refer to the Electronic Parts Catalog (eCAT) (<https://parts.polarisind.com/Browse/Browse.asp?RedirectFromDEX=Y>) for parts.
 - Controls
 - Exhaust
 - Chassis components
4. Replace the existing tire with a **NEW** tire (part number 5418862). Verify the date code is 4823 or later.
5. Test drive the bike to verify the handling concern has been resolved.

If the concern continues, continue with the additional diagnostic steps below.

Additional Diagnostic and Repair Steps

- A. Verify steering head bearing torque. Ensure the nut is not upside down. Refer to the Service Manual (<https://service.polarisportal.com/STOP/Files/Index/3>) for torque values and nut orientation.
- B. Verify correct wheel balance and runout.
- C. Replace the tire again with a different **NEW** tire (part number 5418862). Verify the date code is 4823 or later.

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Diagnostic Tips for Modified Indian Motorcycles (<https://ask.polarisdealers.com/Home/ViewArticle?articleNumber=KA-06359>)

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