

EXEDY Tech Information

Application: **Subaru Impreza WRX & Sti**

Subject: **Clutch Slipping, but it might not be a Clutch!**

If you have a concern about the vehicle's clutch slips under hard acceleration but drives normally or better under light acceleration, it might not be a clutch.

Recommendation

Before you start to change or complain about the clutch, you may want to check if the retaining clip on the inner end of rear axle shaft has come off or not.

Why check this part?

If the clip has come off, the axle shaft can move outward slightly to disengage from the side gear of the rear differential but, the wheel bearing retainer assembly will not allow the axle to come out completely.

Since WRX has a limited slip rear differential, there is enough drag torque to move the vehicle under light acceleration but not under hard acceleration.

How to determine

Put the vehicle on the lift. (such as 2-post lift: all wheels must be spun freely)

Start the engine and put in gear. Engage the clutch and see if all four wheels are turning. If there are any wheels not turning, inspect the wheel not turning.

* Pay maximum attention for safety, such as using extra stand to hold the vehicle stable and secure.

How to repair

Push the axle shaft inward and re-engage the retaining clip. You may need to take out the rear differential cover to re-install the retaining clip. We recommend to inspect the axle shaft and joint assembly carefully for any damage.

Addition

There are several case the vehicle acts like the clutch slips, but it is caused by above reason and/ or bad differential and/ or joint components.

For Technical Question;
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