2017-2024 Alfa Romeo Giulia - Rear Differential

2017-2024 Alfa Romeo Giulia | Moderate | 1-2 hours | $27 DIY

TOOLS

3/8-inch ratchet wrench 8mm hex bit socket Gear oil/fluid pump Oil drain pan Jack stands Socket set Torque wrench Funnel Gloves Safety glasses Floor Jack 10mm hex bit socket

PARTS

Mopar 68083381AA Rear Differential Fluid 68083381AA $25.00
Sump Plug Washer $1.50

STEPS

1. **Confirm fluid spec and warm the differential - The 2017-2024 Giulia uses 75W-85 - NOT the** common 75W-90. Alfa specifies synthetic 75W-85 meeting FPW9.55550-DA9 (Fiat spec). Capacity depends on your RDU (Rear Drive Unit): RDU 195 and RDU 230-LSD take 0.9L; RDU 210/215-LSD takes 1.1L...
2. **Safely raise and support the vehicle - Jack from the rear subframe and place stands at** the designated jack points (consult the owner's manual - the Giulia's pinch welds are reinforced at specific locations). Chock the front wheels.
3. **Remove the fill plug first - The fill plug is on the rear face of the diff housing, upper** position (typically an 8mm or 10mm hex). Remove it FIRST - Alfa diff plugs are known to seize, and you don't want to drain with no way to refill. If it's stuck, soak with penet...
4. **Drain the old gear oil - The drain plug is on the bottom of the housing (hex, same size** as fill). Position your drain pan - the Giulia's diff is small so less than a liter will come out, but it drains fast. Remove the drain plug and let it empty completely. Insp...
5. **Reinstall drain and refill - Clean and reinstall the drain plug - torque to 25 Nm (18** ft-lb). These are aluminum housings; overtightening strips the threads. Using a fluid pump, fill through the upper hole with 75W-85 meeting FPW9.55550-DA9. Fill to the correct capa...
6. **Lower and check for leaks - Wipe the housing clean. Lower the car. Drive gently for 10** minutes - the Giulia's RDU needs a few miles for the new fluid to circulate fully. Listen for any new whining or humming from the rear (should be quieter, not louder, with fresh...

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