2021+ FORD BRONCO PORTAL SYSTEM
BREAK-IN + MAINTENANCE GUIDE

2021-2026 Bronco 2-door and 4-door | Non-Raptor

OIL SPECIFICATION + SERVICE INTERVALS

GEAR OIL SPECIFICATION	CAPACITY PER PORTAL	FIRST OIL CHANGE	REGULAR SERVICE
75W-90	**16.9 fl oz**	**500-1,000 mi**	**5,000 mi**
API GL-5 gear lubricant	About 500 mL, each corner	After initial break-in	Or 12 months, whichever first

YOUR FIRST 500-1,000 MILES

BEFORE DRIVING

Verify all four portal boxes contain the correct gear oil; check for leaks and secure hardware.

DURING BREAK-IN

Normal road, highway, and trail driving is acceptable. Avoid towing until after first service.

AT 500-1,000 MILES

Drain and replace gear oil in all four portals. Inspect mounting bolts and breathers.

THEREAFTER

Service every 5,000 mi or annually, plus checks after hard off-road use.

IMPORTANT BEFORE OPERATION

Portal gearboxes are separate from your engine, differentials, and transfer case. Each of the four portal assemblies requires its own gear oil. Confirm fill, breather routing, brake function, and hardware security before the first drive.

PORTAL GEAR OIL CHANGE PROCEDURE

Use for the first break-in service and all subsequent oil changes

STEP-BY-STEP

1. **PREPARE THE VEHICLE**

   Park on level ground, set the parking brake, and allow the portal housings to cool to a safe handling temperature. Chock wheels and support safely if raising the vehicle.

2. **IDENTIFY AND CLEAN THE PORTS**

   Locate the approved fill and drain plugs on each portal. Clean surrounding surfaces so dirt cannot enter the gearbox. Remove the fill plug first to verify it can be opened.

3. **DRAIN AND INSPECT**

   Place a drain pan under the portal. Remove the drain plug and allow the oil to drain fully. Look for moisture, milky oil, large metal fragments, or signs of overheating.

4. **REINSTALL DRAIN PLUG**

   Inspect the plug and sealing surface. Tighten until snug, then turn an additional 1/4 turn. Avoid impact tools and do not overtighten the aluminum housing.

5. **REFILL EACH PORTAL**

   Using the supplied syringe, add SAE 75W-90 API GL-5 gear oil (about 16.9 fl oz / 500 mL) to each completely drained portal. Keep the syringe and fill opening clean to prevent contamination.

6. **SEAL AND VERIFY**

   Tighten the fill plug until snug, then turn an additional 1/4 turn. Wipe clean and check for seepage after a short test drive. Record the service date and mileage.

SERVICE QUICK REFERENCE

FOUR-CORNER OIL REQUIREMENT

67.6 fl oz total

Approximately 2.0 liters. Purchase at least three US quarts for a complete four-corner oil change.

STOP AND CONTACT TURN IF:

- Oil is milky or contains unusual fragments
- Persistent leaks or loose mounting hardware
- New vibration, grinding, or severe noise

VIDEO REFERENCE

Scan for the Turn Offroad oil-change demonstration, or refer to the full installation video for setup and routing.

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OIL

INSTALL

INSPECTION + SERVICE RECORD

Routine checks help identify oil leaks, hardware loosening, and damage early

RECOMMENDED INSPECTION CHECKLIST

WHEN TO CHECK	WHAT TO INSPECT
After installation	Inspect for leaks; verify portal mounting bolts, wheel hardware, breather routing, brake hoses, and sensor wiring.
At 500-1,000-mile first service	Change all four portal oils. Recheck mounting hardware, routing, visible seals, and unusual noise.
Every 5,000 miles / annually	Replace gear oil, inspect all four units, and check exposed fasteners using approved torque specifications.
After hard trail use / impacts	Inspect housings, wheel flanges, mounting points, exposed fasteners, lines, and breathers before the next drive.
After water / mud exposure	Inspect for fluid contamination and blocked breathers. Change oil only if contaminated; correct the cause.

SERVICE RECORD

DATE	ODOMETER	FLUID / SERVICE	NOTES / TECHNICIAN

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