

LEXUS GX460

Maintenance Reference & Service Log

2016 – 2021 Model Years • 1UR-FE 4.6L V8 • A760F 6-Speed AT

Fluid Capacities • Torque Specs • Service Schedule • Service Log

VEHICLE INFORMATION

VIN	
Model Year	
Trim	
Purchase Date	
In-Service Date	
Color	
License Plate	
Insurance Policy #	

Compiled from Lexus 2019 GX460 Warranty & Services Guide and 2016–2021 GX460 Repair Manual (RM27D0U)

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1. Quick Reference – Fluids at a Glance

Drain-and-refill capacities for routine DIY service. For dry-fill (after rebuild) capacities, see Section 2.

System	Capacity (Drain & Refill)	Fluid Type
Engine Oil (with filter)	7.8 L (8.2 US qt)	0W-20 ILSAC multigrade (5W-20 acceptable)
Engine Coolant (no rear heat)	13.7 L (14.5 US qt)	Toyota Super Long Life Coolant (pink)
Engine Coolant (w/ rear heat)	15.4 L (16.3 US qt)	Toyota Super Long Life Coolant (pink)
Automatic Transmission (A760F)	3.0 L (3.2 US qt)	Toyota Genuine ATF WS
Front Differential	1.35–1.45 L (1.43–1.53 US qt)	Toyota Diff Gear Oil LT 75W-85 GL-5
Rear Differential	2.65–2.75 L (2.80–2.91 US qt)	Toyota Diff Gear Oil LT 75W-85 GL-5
Transfer Case (VF4BM)	1.4 L (1.5 US qt)	Toyota Transfer Gear Oil LF SAE 75W
Power Steering	1.0 L (1.1 US qt)	ATF DEXRON II or III (or equivalent)
Brake Fluid	Top-up to MAX	DOT 3 (SAE J1703 / FMVSS No. 116)

DIY Tip

- Buy 9 quarts of oil to be safe — drain & refill spec is 7.8 L (≈8.2 qt) but some always stays in the cooler/galleries.
- ATF WS is non-interchangeable. Do NOT use Dexron VI in the transmission.
- Front and rear diffs use the same fluid — buy a 5-quart jug and you'll do both with leftovers.

2. Fluid Specifications & Capacities

Source: 2016–2021 Lexus GX460 Repair Manual (RM27D0U), Preparation sections.

Engine Oil – 1UR-FE 4.6L V8

Service	Capacity	Spec
Drain & refill (no filter change)	7.4 L (7.8 US qt, 6.5 Imp qt)	ILSAC GF-5 or higher
Drain & refill (WITH filter change)	7.8 L (8.2 US qt, 6.9 Imp qt)	Standard: 0W-20
Dry fill (after rebuild)	9.4 L (9.9 US qt, 8.3 Imp qt)	Acceptable: 5W-20

Oil Filter: Toyota part 04152-YZZA1 (or 04152-38020 OEM cartridge). Use a new O-ring with each change.

Engine Coolant

Configuration	Capacity	Spec
Without Rear Heater	13.7 L (14.5 US qt, 12.1 Imp qt)	Toyota Super Long Life Coolant (SLLC) – pink
With Rear Heater	15.4 L (16.3 US qt, 13.6 Imp qt)	Or equivalent low-phosphate, hybrid OAT, ethylene-glycol-based coolant (non-silicate, non-amine, non-nitrite, non-borate)

First replacement: 100,000 miles or 120 months, whichever first. Subsequent replacement: every 50,000 miles or 60 months.

Automatic Transmission Fluid (A760F)

Service	Capacity	Spec
Drain & refill (pan only)	3.0 L (3.2 US qt, 2.6 Imp qt)	Toyota Genuine ATF WS
Pan + drain plug removal	1.7 L (1.8 US qt, 1.5 Imp qt)	Toyota Genuine ATF WS
Dry fill (after rebuild)	11.1 L (11.7 US qt, 9.8 Imp qt)	Toyota Genuine ATF WS only

ATF Level Procedure (Critical)

The A760F has NO dipstick. Level is checked via the overflow plug with the fluid at 46–52 °C (115–126 °F).

After service: fill, idle through gears, then crack the overflow plug at the correct temp until fluid trickles to a thread (not a stream).

Use Techstream (or equivalent) to monitor ATF temperature precisely.

After replacing ≥ 50% of the ATF, perform an ATF Thermal Degradation Estimate Reset.

Differential Gear Oil

Differential	Capacity	Spec
Front	1.35–1.45 L (1.43–1.53 US qt)	Toyota Genuine Diff Gear Oil LT 75W-85 GL-5
Rear	2.65–2.75 L (2.80–2.91 US qt)	Or equivalent SAE 75W-85, API GL-5

Transfer Case (VF4BM)

Service	Capacity	Spec
Drain & refill	1.4 L (1.5 US qt, 1.2 Imp qt)	Toyota Genuine Transfer Gear Oil LF, SAE 75W

Power Steering Fluid

Service	Capacity	Spec
System total	1.0 L (1.1 US qt, 0.9 Imp qt)	ATF DEXRON II or III, or equivalent

Brake Fluid

Item	Spec
Specification	SAE J1703 or FMVSS No. 116 — DOT 3
Replacement interval	Every 30,000 miles / 36 months
DOT 4 substitute	Acceptable (compatible with DOT 3 systems)

3. Torque Specifications

All values from the 2016–2021 GX460 Repair Manual. Always use a new gasket/crush washer on drain and fill plugs.

Service / Maintenance Torques (Most Common)

Fastener	N·m	ft·lbf	Notes
Engine oil drain plug	40	30	New gasket each time
Oil filter cap (cartridge housing)	25	18	Replace O-ring
Spark plug	21	15	Iridium, gap 1.1 mm
Front diff drain plug	65	48	New gasket
Front diff fill plug	39	29	New gasket
Rear diff drain plug	49	36	New gasket
Rear diff fill plug	49	36	New gasket
Transfer drain plug	37	27	New gasket
Transfer fill plug	37	27	New gasket
Trans (A760F) drain plug	20	15	New gasket
Trans (A760F) overflow plug	20	15	Used for level check
Trans (A760F) refill plug	39	29	Top of case
Front brake bleeder plug	11	8	
Rear brake bleeder plug	11	8	
Front brake caliper to knuckle	185	136	Critical safety
Rear brake caliper bracket bolt	100	74	
Rear brake caliper to bracket	88	65	
Brake tube to caliper / hose	15	11	
Wheel lug nut (front & rear)	103	76	Star pattern, torque cold

Engine — Major Internals (Reference Only)

Fastener	N·m	ft·lbf	Notes
Crankshaft bearing cap (inner) 1st	61	45	Then turn 90°
Crankshaft bearing cap (outer) 1st	27	20	Then turn 90°
Crankshaft cap to block	45	33	
Connecting rod bearing 1st	40	30	Then turn 90°
Cylinder head straight screw plug #1	44	32	
Cylinder head straight screw plug #2	85	63	
Oil pan to cylinder block (bolt B/nut)	35	26	
Cyl block water drain cock	30	22	
Engine mount bracket to block	35	26	

Fastener	N·m	ft·lbf	Notes
Rear engine mount insulator x trans	72.5	53	

Driveline & Suspension

Fastener	N·m	ft·lbf	Notes
Front axle hub bearing to knuckle	80	59	
Front axle shaft nut	235	173	Stake new nut
Steering knuckle x upper arm	110	81	
Steering knuckle x tie rod end	91	67	
Rear axle shaft x housing	60	44	
Front companion flange (drive pinion)	≤370	≤273	Tighten to set preload
Rear companion flange (drive pinion)	≤457	≤337	Tighten to set preload
Transfer x trans	24	18	
Trans housing x case (17 mm bolt)	57	42	
Trans housing x case (14 mm bolt)	34	25	
Front diff support No.1 to frame	137	101	
Front diff support No.2 to frame	137	101	
Torque converter to drive plate	53	39	

4. Service Limits — Wear Items

Use these to decide when to replace pads/rotors during inspections. Always measure at multiple points around the rotor.

Front Brake

Measurement	Standard (New)	Service Limit
Pad lining thickness	11.3 mm (0.445 in.)	1.0 mm (0.0394 in.)
Disc thickness	32.0 mm (1.26 in.)	29.0 mm (1.15 in.)
Disc runout (max)	—	0.05 mm (0.00197 in.)

Rear Brake

Measurement	Standard (New)	Service Limit
Pad lining thickness	10.0 mm (0.394 in.)	1.0 mm (0.0394 in.)
Disc thickness	18.0 mm (0.709 in.)	16.0 mm (0.630 in.)
Disc runout (max)	—	0.20 mm (0.00787 in.)

Axle / Hub

Measurement	Service Limit
Front hub bearing looseness (max)	0.05 mm (0.00197 in.)
Front hub runout (max)	0.08 mm (0.00315 in.)
Rear axle shaft runout (max)	1.50 mm (0.0591 in.)
Rear axle flange runout (max)	0.05 mm (0.00197 in.)

Tire Pressure

Refer to the door-jamb placard on the driver-side B-pillar for current OEM-spec cold tire pressures (typically 32 psi front and rear for the GX460 on factory 18" or 19" wheels).

Tire pressure naturally drops ~1 psi per 10 °F drop in ambient temperature — re-check in fall and spring.

TPMS warning thresholds: low at ~80% of set pressure; abnormally high at ~55 psi gauge.

5. Maintenance Schedule

Per Lexus: Service every 6 months OR 5,000 miles, whichever first. Below shows ALL items from the 2019 Warranty & Services Guide. Items in italics are special-condition only.

Every 5,000 mi / 6 mo — (1st service complimentary)

- Inspect & adjust all fluid levels
- Rotate tires
- Visually inspect brake pads, calipers and rotors
- Inspect wiper blades
- Reset maintenance reminder light, road test
- *Special conditions: under off-road / dusty / road-salt / towing — also inspect axle boots, ball joints, air filter, steering linkage; lubricate driveshaft & re-torque chassis fasteners*

Every 10,000 mi / 12 mo — (2nd service complimentary)

- Replace engine oil with 0W-20 + replace oil filter
- Rotate tires
- Visually inspect brake pads, calipers and rotors
- Inspect wiper blades; road test

Every 15,000 mi / 18 mo (also 45k, 75k, 105k...)

- Lubricate drive shaft, re-torque nuts and bolts
- Replace Smart Key battery
- Rotate tires; inspect brakes; road test
- Inspect: axle shaft boots, ball joints/dust covers, body, brake lines/hoses, engine coolant, exhaust, front diff oil, rear diff oil, rack-and-pinion, steering linkage/boots, wiper blades
- *Towing/heavy-load: replace front + rear diff oil*

Every 30,000 mi / 36 mo (also 60k, 90k...) ★ MAJOR SERVICE

- Replace engine oil + oil filter
- Replace cabin air filter
- Replace engine air filter
- Replace brake fluid
- Replace Smart Key battery
- Lubricate drive shaft, re-torque chassis
- Inspect (full list): active height control (if equipped), axle shaft boots, ball joints/dust covers, body, brake lines/hoses, BRAKE ROTOR THICKNESS & RUNOUT, engine coolant, exhaust pipes/mountings, front + rear diff oil, fuel lines/connections, fuel tank cap gasket, rack-and-pinion, steering linkage/boots, transfer case oil, transmission for leaks, wiper blades
- *Towing/heavy-load (60k only): also replace transmission fluid; replace front + rear diff oil; replace transfer case oil*
- *Off-road/dusty: also replace transfer case oil*

Every 60,000 mi / 72 mo ★ MAJOR + DRIVE BELT

All 30,000-mile items PLUS:

- INSPECT DRIVE BELT (added at 60k, then every 30k)
- *Severe-duty owners should replace transmission fluid here*

100,000 mi / 120 mo — COOLANT (1st replacement)

- Replace engine coolant (Toyota SLLC) — first replacement at 100k, every 50k after

- Continue 5k/10k/15k/30k pattern

Items NOT in the OEM schedule but worth doing

- Spark plugs: factory states 'inspect' but 60k–100k replacement is common practice (Iridium plug, OE NGK ILZKAR7B11)
- Transmission fluid (drain & refill, 3 L): every 60k for normal use is conservative-but-cheap insurance
- Differential oil: every 30k regardless of conditions is widely recommended

6. Service Interval Quick-Look Matrix

• = required at this interval. Read down each column to see what's due.

Item	5k	10k	15k	20k	25k	30k	60k	100k
Inspect/adjust fluid levels	•		•					
Replace engine oil + filter		•		•	•	•	•	•
Rotate tires	•	•	•	•	•	•	•	•
Inspect brakes (pad/cal/rotor)	•	•	•	•	•	•	•	•
Inspect wiper blades	•	•	•	•	•	•	•	•
Lube driveshaft, re-torque			•			•	•	•
Replace Smart Key battery			•			•	•	•
Inspect engine coolant			•			•	•	•
Inspect front + rear diff oil			•			•	•	•
Inspect transfer case oil						•	•	•
Inspect rack-and-pinion			•			•	•	•
Inspect axle shaft boots			•			•	•	•
Inspect ball joints + dust covers			•			•	•	•
Inspect steering linkage + boots			•			•	•	•
Inspect brake lines and hoses			•			•	•	•
Inspect exhaust pipes/mountings			•			•	•	•
Inspect body & fuel system			•			•	•	•
Inspect brake rotor thick + runout						•	•	•
Inspect drive belt							•	•
Replace cabin air filter						•	•	•
Replace engine air filter						•	•	•
Replace brake fluid						•	•	•
Replace engine coolant								•

Note: 30k pattern repeats at 60k, 90k, 120k. The 60k column above also covers 30k since it's a superset.

7. Special Operating Conditions

Per Lexus, drive *PRIMARILY* (not occasionally) under any of these conditions and you must follow the severe schedule.

Conditions That Trigger Severe-Duty Service

- Driving on dirt roads or dusty roads
- Repeated trips of less than 5 miles in temperatures below 32 °F (0 °C)
- Extensive idling and/or low-speed driving for long distances (delivery, taxi, police use)
- Towing a trailer, using a car-top carrier, or heavy vehicle loading
- Driving on roads where road salt is applied

Severe-Duty Adjustments

Condition	Additional Service
Off-road / dirt / dusty	Every 5k: inspect axle boots, ball joints, engine air filter, steering linkage/boots; lube driveshaft + re-torque chassis. Every 30k: also replace transfer case oil.
Towing / heavy load / car-top carrier	Every 5k: lube driveshaft + re-torque chassis. Every 15k: replace front + rear diff oil. Every 30k: replace front + rear diff + transfer case oil. Every 60k: also replace transmission fluid.
Road salt	Every 5k: lube driveshaft + re-torque nuts and bolts.
Short trips < 5 mi in cold	Replace engine oil + filter every 5,000 mi / 6 mo (don't stretch to 10k).

Charlotte, NC realistic interpretation

Daily driving on paved roads in Charlotte does NOT trigger severe-duty service — you can run the normal schedule.

If you tow, use a roof box, regularly drive unpaved Forest Service roads, or take winter mountain trips on salted I-26/I-77, switch to severe-duty intervals.

Many GX460 owners voluntarily drain & refill ATF every 60k and diff oils every 30k regardless — cheap insurance on a vehicle you're keeping long-term.

8. Monthly Owner Inspections

From the 2019 Warranty & Services Guide, page 42. Quick walk-around to catch issues between scheduled services.

Every 30 Days

- Engine oil level (dipstick)
- Engine coolant level (see-through reservoir)
- Brake fluid level (see-through reservoir)
- Power steering fluid level
- Battery condition (visual)
- Windshield washer fluid
- Driver's floor mat installation
- Tire pressure (cold) — front, rear, spare
- Tires for damage and uneven wear

After Off-Road Driving Through Sand/Mud/Water — Same Day

- Axle shaft boots
- Ball joints and dust covers
- Brake lines and hoses
- Brake pads/rotors and parking brake linings/drums
- Differential oil (front and rear)
- Engine air filter
- Nuts and bolts on chassis
- Steering linkage and boots
- Transfer case oil
- Transmission for signs of leakage

9. Service Log

Record every service performed. If you sell the vehicle, transfer this log to the buyer (it materially helps resale value and warranty disputes).

Date	Mileage	Service Type	Performed By	Cost
Items / Parts / Notes:				

Date	Mileage	Service Type	Performed By	Cost
Items / Parts / Notes:				

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Items / Parts / Notes:				

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Date	Mileage	Service Type	Performed By	Cost
Items / Parts / Notes:				

10. Parts Reference (Common Service Parts)

Common Toyota/Lexus part numbers. Verify with your VIN before ordering — interchanges can vary by build date.

Filters

Part	Toyota / Lexus P/N	Notes
Oil filter cartridge	04152-YZZA1 / 04152-38020	Includes O-ring; OEM
Engine air filter	17801-38051	Drop-in panel
Cabin air filter	87139-YZZ20 / 87139-50100	Behind glove box

Fluids (Toyota Genuine)

Fluid	Toyota / Lexus P/N (US)	Notes
0W-20 motor oil (1 qt)	00279-0WQTE	Or Mobil 1, etc., meeting ILSAC
ATF WS (1 qt)	00289-ATFWS	Use only this spec
Diff Gear Oil LT 75W-85 (qt)	08885-81620	Front and rear
Transfer Gear Oil LF 75W (qt)	08885-81080	Transfer only
SLLC pre-mixed (gallon)	00272-SLLC2	Pink; ready-to-use
Brake fluid DOT 3 (12 oz)	00475-1BF03	DOT 4 also OK

Drain Plug Gaskets / Crush Washers

Location	Toyota / Lexus P/N
Engine oil drain plug gasket	90430-12031 (12 mm)
Differential drain/fill gasket	12157-10010
Transfer drain/fill gasket	12157-10010
Transmission drain plug gasket	35178-30010
Transmission overflow plug gasket	35178-30010

Spark Plugs

- OE: NGK ILZKAR7B11 (Iridium long-life) × 8 plugs
- Gap: 1.1 mm (0.043 in.) – pre-gapped from factory; do not adjust
- Torque: 21 N·m / 15 ft·lbf

Where to source

OEM parts: any Lexus dealer parts counter (or online: Lexus parts websites, Toyota of Dallas Parts, etc.).
 Aftermarket equivalents: Mobil 1 0W-20, Valvoline MaxLife ATF (NOT for the GX — must use WS), AMSOIL, Mann/Mahle filters.
 Always replace gaskets/crush washers — never reuse. They are pennies and prevent leaks.