

P31FW F250 Super Duty 4x4

Familiarization

6.8L PFI Gas V8



Capability

iver power and capability with:

Gas engine

ENGINE TECHNOLOGY

- Fail-Safe Engine Cooling System
- Intelligent Oil-Life Monitor

6.8L PFI V8

405

horsepower
@ 5,000 rpm

445

lb.-ft. of torque
@ 4,000 rpm

speed automatic transmission paired with the 6.8L PFI

- Available on XL configurations only
- Ford designed and built from the ground up based on the 7.3L V8 engine architecture
- Implements the same anti-wear materials as Ford's turbocharged applications, helping promote long-term strength and durability
- Paired with the 10-speed TorqShift-G automatic transmission with Selectable Drive Modes

KEY FEATURES

- Cast-iron block with four cross-bolted main bearings provides maximum strength and stiffness in the bottom end for maximum durability
- Big block design with big bore spacing for greater efficiency
- Cooling jets improve piston durability and combustion efficiency
- Cast steel crankshaft offers strength and durability
- In-block cam reduces engine height and width
- Pushrod design with two valves per cylinder
 - Pushrods allow for more compact design
 - Roller valve actuation for greater efficiency
- Port fuel injection offers fuel-efficient technology and easy maintenance access
- Variable displacement oil pump provides more oil when needed or reduces parasitic losses under light loads

Engine Cooling System

Engine Cooling System is designed to help protect the engine from potential damage due to overheating, allowing the driver to travel a short distance to obtain service or reach a service facility.

In the event of overheating, it will switch from normal all-cylinder operation to alternating-cylinder operation. The unpowered cylinders act as air pumps to help cool the powered cylinders. The engine will continue to operate, but with limited engine power, and the air conditioning system will be disabled. The duration of limited power is limited by a number of factors, including vehicle load, outside temperature and road conditions.

Oil-Life Monitor

The Oil-Life Monitor calculates oil change service intervals based on actual vehicle use, operating conditions and time since last oil service.

LS

The Oil-Life Monitor will appear in the Information Display indicating when it's time for an oil change.

The **ENGINE OIL SOON** will appear when engine oil life remaining is 10% or less.

The **OIL CHANGE DUE** or **OIL CHANGE REQUIRED** will appear when oil life reaches 0%.

An oil change should be performed within two weeks or 500 miles of the **ENGINE OIL CHANGE DUE** or **OIL CHANGE REQUIRED** message appearing.

Factors that could accelerate an oil change interval include towing, short-distance driving, extended idle duration and extreme temperatures.

The Oil-Life Monitor must be reset after each oil change.

Failure to follow scheduled maintenance as specified in the Scheduled Maintenance Guide may invalidate warranty coverage affected by the lack of maintenance.

Automatic High Beams

(MY24 & newer)

- Feature locked on as part of fixed DAT settings option
- The system turns on high beams if it is dark enough and no other traffic is present. If it detects an approaching vehicle's headlamps or tail lamps, or street lighting ahead, the system turns off high beams before they can distract other road users. Low beams remain on.
- Note: *The system may not operate properly if the sensor is blocked. Keep the windshield free from obstruction or damage. A message may appear in the information display if the camera is blocked.*
- A camera sensor, centrally mounted behind the windshield of your vehicle, continuously monitors conditions to turn the high beams on and off.
- The high beams turn on if:
 - The ambient light level is low enough.
 - There is no traffic in front of your vehicle.
 - The vehicle speed is greater than approximately 32 mph (51 km/h).
- The high beams turn off if:
 - The ambient light level is high enough that high beams are not required.
 - The system detects an approaching vehicle's headlamps or tail lamps.
 - The vehicle speed falls below approximately 27 mph (44 km/h).
 - The system detects severe rain, snow or fog.
 - The camera is blocked.

Pre-Collision Assist System

(MY24 & newer)

- Feature locked on as part of fixed DAT settings option
 - Alert sensitivity set to Normal.
 - Distance Indication set to On.
 - Active Braking set to On.
 - Pre-Collision Assist set to On.
- The Pre-Collision Assist system is active at speeds above approximately 3 mph (5 km/h).

Pre-Collision Assist System

(MY24 & newer)

- If your vehicle is rapidly approaching another stationary vehicle or a vehicle traveling in the same direction the system provides three levels of functionality:
 1. Alert
 2. Brake Support
 3. Active Braking
- Alert: When active, a flashing visual warning appears and an audible warning tone sounds.
- Brake Support: The system is designed to help reduce the impact speed by preparing the brakes for rapid braking. The system does not automatically apply the brakes. If you press the brake pedal, the system could apply additional braking up to maximum braking force, even if you lightly press the brake pedal.
- Active Braking: Active braking may activate if the system determines that a collision is imminent. The system may help the driver reduce impact damage or avoid the crash completely.

Pre-Collision Assist System

(MY24 & newer)

Distance Indication and Alert

- Distance Indication and Alert is a function that provides the driver with a graphical indication of the time gap to other preceding vehicles traveling in the same direction. The Distance Indication and Alert screen in the display screen shows one of the graphics that follow.



- If the time gap to a preceding vehicle is small, a red visual indication displays.

Maintenance

Published Ford interval		https://www.ford.com/support/maintenance-schedule/				
Interval	Service (change or replace)	Capacity	Ford P/N	UPS P/N	FLUID SPEC	Comments
Cluster	Engine Oil	8 qt			5W30	
	Engine Oil Filter		FL-820-S			
20,000	Cabin air filter		FP-119			
30,000	Air Filter		FA-1950			
60,000	Front wheel bearing grease					
100,000	Spark Plugs		SP-589			
150,000	Transmission Fluid & Filter		FT-202		Motorcraft® MERCON® ULV Automatic Transmission Fluid / XT-12-QLVL (WSS-M2C949-A,)	
	Rear Axle Fluid (10.5 w/o ls & w/o elec lock dif)	3.5 qt			SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant(U.S.)	
	Front Axle (9.25 w/o ls)	2.2 qt			Motorcraft® SAE 80W-90 Premium Rear Axle WSP-M2C197-A Lubricant(U.S.)	
	Transfer case	1.9 qt			Motorcraft® MERCON® LV Automatic Transmission	
	Front wheel bearings & seals					
	Accessory drive belt		PC3Z-8620-C Ac Dr PC3Z-8620-A A/C belt only			
200,000	Initial Coolant (10 years)	22 qt			Motorcraft Yellow Prediluted Antifreeze/Coolant VC13DLG	Initial replacement at ten years or 200,000 mi (320,000 km), then every five years or 100,000 mi (160,000 km).
3 years	Brake Fluid				DOT4	
Other Maint Parts						
Interval	Service (change or replace)	Capacity	Ford P/N	UPS P/N	FLUID SPEC	Comments
	Battery		BXT-65-750			
	Wiper blades		WW-2248-A			
	Refrigerant	27 oz			R134a	
	Refrigerant oil	3.7 oz			PAG	
	Power Steering				Motorcraft® MERCON® LV Automatic Transmission	



Ford F250 & Transit Warranty Summary

Chassis	Model Years	From In Service Date	Miles	Parts/Labor	Comments
Base Warranty	All	36 months	36,000		
Battery	All	36 months	36,000		
Emissions	All	60 months	50,000		
Differential	2021 and older	60 months	60,000	100%/100%	
	2022 and newer	60 months	100,000	100%/100%	EFC 09139
Transmission	2021 and older	60 months	60,000	100%/100%	
	2022 and newer	60 months	100,000	100%/100%	EFC 09139
Engine	2021 and older	60 months	60,000	100%/100%	
	2022 and newer	60 months	100,000	100%/100%	EFC 09139