



SNOWPLOW

Page

Required & Recommended Equipment

F-150	2-3
Super Duty F-250/350/450/550	4



SNOWPLOW REQUIRED & RECOMMENDED EQUIPMENT F-150

MINIMUM REQUIRED EQUIPMENT – SNOW PLOW PREP PACKAGE (68P)

NOTE: The engine Outside Air Temperature (OAT) sensor is subject to error unless relocated to unblocked airflow.

- 4x4 only
- Requires 5.0L V8 engine (99F)
- Lariat trim (only) – Electronic Shift-On-The-Fly (ESOF) replaces standard 2-speed automatic 4WD
- Lariat Technology Package (68T) not available with Snowplow Prep Package (68P)
- Available on Regular, SuperCab and SuperCrew models (5.5', 6.5' and 8.0' boxes)
- Available with XL, XLT and Lariat Trim
- Both regular and heavy duty payload packages
- "Snow Plow" mode button on instrument panel will disable (load shed) the following features to maintain required electrical charge margins during plow operation / use: 110V inverter, fog lamps, heated steering wheel, heated front/rear seats, and massaging seats. Snow Plow mode button also activates relay to snow plow controls.

WARRANTY

NOTE: The F-150 snowplow installation is intended for **residential / personal use only.**

The Ford New Vehicle Limited Warranty applies to vehicles with snowplows installed in accordance with these guidelines. Consult your Ford dealer or the *Owner Guide* for any further questions.

COMPLETED VEHICLE WEIGHT

Recommended plow assembly and aft-of-rear axle ballast weight limits are shown in the attached chart. These snowplow weight limits are based upon a vehicle built with noted trim levels with no additional Ford option content, a total of 300 lb. for a driver plus one front seat passenger (150 lbs. each), ballast weight rearward of the rear axle, and additional assumptions for commercially available snowplow assembly weights and mounting location.

The vehicle must not be operated when over-loaded. A vehicle is over-loaded when the weight of the completed vehicle with aftermarket equipment installed, plus driver, passengers, and cargo, exceeds either the FGAWR, RGAWR, or GVWR established by Ford Motor Company and displayed on the Safety Compliance Certification Label.

The addition of ballast weight placed rearward of the rear axle is required to prevent exceeding FGAWR, and to provide good vehicle braking and handling. The ballast should be attached securely to the vehicle with consideration for the normal driving dynamics of snowplowing, and occupant safety in accidents.

TOTAL ACCESSORY RESERVE CAPACITY

For Ford completed vehicles of 10,000 GVWR or less, the weight of permanently attached aftermarket equipment must not exceed the Total Accessory Reserve Capacity (T.A.R.C.) displayed on the Safety Compliance Certification Label to maintain the compliance representation that came with the Ford-built vehicle. Exceeding T.A.R.C. will require re-certification. This applies only to the permanently attached equipment, such as the snowplow frame mounting hardware, and not to the removable portion of the snowplow blade assembly.

FRONT END WHEEL ALIGNMENT AND HEADLIGHT AIM

Front end wheel alignment (toe) and headlight aim may require readjustment after installation of snowplow equipment. Failure to reset front wheel alignment may cause premature uneven tire wear. If required, reset to chassis manufacturer's specifications found in the *Ford Shop Manual*.

ELECTRICAL CONNECTIONS

Installation of any inductive load devices such as electric motors, or electric clutches for clutch pumps, must not be connected to Ford vehicle wiring or fuse panels. Power for such devices should be taken directly from the battery or starter motor relay power terminal. Control of these devices should be achieved via relays. No direct current path should exist between Ford vehicle wiring and the installed load that is not filtered by the battery. These recommendations are intended to eliminate or minimize any induced reverse voltage into the Ford circuitry.

Vehicles equipped with the Snow Plow Prep option will include the Snow Plow Mode switch located on the dash. Activating Snow Plow Mode will provide 10 Amp B+ power to a dedicated feed for the plow controller. It is a blunt cut Yellow/ Orange wire, and is found taped to the headlamp switch harness, behind the left side of the driver's side dash panel. When activated, the vehicle will enter a special load shedding strategy to ensure continuous operation of the plow during periods of high electrical demand.

Weight Table shown on next page



SNOWPLOW REQUIRED & RECOMMENDED EQUIPMENT F-150 (Cont'd)

F150 Snow Plow Weight Analysis / Summary (Standard Front Springs / Maximum Ballast)													
Vehicle Description	Engine	WB (in)	GVWR (lbs)	Front GAWR (lbs)	Rear GAWR (lbs)	Trim	Trim Level	Base Curb Weight (lb)		Mounting Hardware Weight (lb)	Plow Blade Capability @ F/GAWR (lb)	Ballast (lb)	
								Front	Total		Total	Total	
Standard Payload	4x4 Regular Cab	5.0L	122.4	6400	3000	3800	XL	lightest	2647	4380	70	278	1200
				6400	3150	3800		heaviest	2744	4740	70	265	900
				6400	3000	3800	XLT	lightest	2657	4386	70	272	1200
				6400	3150	3800		heaviest	2748	4747	70	262	900
	4x4 Regular Cab	5.0L	141.1	6950	3225	3800	XL	lightest	2723	4431	70	356	1200
				6950	3375	3800		heaviest	2840	4859	70	380	1200
				6950	3225	3800	XLT	lightest	2733	4437	70	349	1200
				6950	3375	3800		heaviest	2844	4866	70	377	1200
	4x4 Super Cab	5.0L	145.0	7050	3375	3800	XL	lightest	2789	4641	70	412	1200
				7050	3525	3800		heaviest	2922	5090	70	402	1050
				7050	3375	3800	XLT	lightest	2778	4615	70	420	1200
				7050	3525	3800		heaviest	2992	5236	70	330	900
7050				3375	3800	Lariat	lightest	2844	4740	70	372	1200	
7050				3600	3800		heaviest	3018	5278	70	372	950	
4x4 Super Cab	5.0L	163.7	7000	3450	3800	XL	lightest	2832	4903	70	406	1100	
			7000	3525	3800		heaviest	2963	5356	70	317	750	
			7000	3450	3800	XLT	lightest	2821	4877	70	428	1200	
			7000	3600	3800		heaviest	3033	5502	70	307	650	
7000	3450	3800	Lariat	lightest	2887	5002	70	379	1200				
7000	3750	3800		heaviest	3059	5544	70	399	650				
4x4 Crew Cab	5.0L	145.0	7000	3375	3800	XL	lightest	2840	4810	70	375	1200	
			7000	3450	3800		heaviest	2975	5259	70	296	950	
			7000	3375	3800	XLT	lightest	2829	4786	70	383	1200	
			7000	3600	3800		heaviest	3054	5420	70	325	800	
7000	3375	3800	Lariat	lightest	2896	4914	70	335	1200				
7000	3600	3800		heaviest	3091	5485	70	290	750				
4x4 Crew Cab	5.0L	156.8	7050	3450	3800	XL	lightest	2934	4896	70	350	1200	
			7050	3600	3800		heaviest	3071	5356	70	311	850	
			7050	3450	3800	XLT	lightest	2923	4872	70	358	1200	
			7050	3750	3800		heaviest	3150	5517	70	348	750	
7050	3525	3800	Lariat	lightest	2990	5000	70	364	1200				
7050	3750	3800		heaviest	3187	5582	70	321	750				
Heavy Payload (HPP)	4x4 Regular Cab HPP	5.0L	141.1	7850	3400	4800	XL	lightest	2799	4637	70	426	1200
				7850	3400	4800		heaviest	2865	4906	70	380	1200
				7850	3400	4800	XLT	lightest	2819	4681	70	412	1200
				7850	3400	4800		heaviest	2881	4951	70	368	1200
	4x4 Super Cab HPP	5.0L	163.7	7850	3750	4800	XL	lightest	2981	5091	70	531	1200
				7850	3750	4800		heaviest	3061	5385	70	472	1200
				7850	3750	4800	XLT	lightest	2980	5102	70	532	1200
				7850	3750	4800		heaviest	3117	5505	70	431	1200
	7850	3750	4800	Lariat	lightest	3040	5206	70	487	1200			
	7850	3750	4800		heaviest	3146	5589	70	409	1200			
	4x4 Crew Cab HPP	5.0L	156.8	7850	3750	4800	XL	lightest	3040	5079	70	492	1200
				7850	3750	4800		heaviest	3126	5380	70	429	1200
7850				3750	4800	XLT	lightest	3039	5092	70	493	1200	
7850				3750	4800		heaviest	3193	5519	70	380	1200	
7850	3750	4550	Lariat	lightest	3100	5199	70	448	1200				
7850	3750	4550		heaviest	3231	5622	70	353	1200				



SNOWPLOW REQUIRED & RECOMMENDED EQUIPMENT SUPER DUTY F-250/350/450/550

The Super Duty F-Series vehicles tabled below are available for snowplow usage.

Minimum Required Equipment

- 4x4 (all pickups, F-350 chassis cab)
- Snowplow Prep Package (473) which includes:
 - Front spring / GAWR upgrade (refer to the Weight Ratings charts for specific spring / GAWR selection for each model).
 - 6.2L Gasoline: Extra HD 200 amp alternator. Optional 240 amp Extra Extra HD alternator.
 - 6.7L Diesel Pickup: Extra HD 220 amp alternator. Optional 332 amp dual alternators.
 - 6.7L Diesel Chassis Cab: 332 amp dual HD alternators. Optional 377 amp dual Extra HD alternators.

Plow and attaching hardware weight limits as tabled below.

Recommended Equipment

- All-terrain tires and roof clearance lights (optional with SRW Pickup models, required with F-350 DRW and F-450).

Standard Equipment

- Front and rear stabilizer bar (rear standard on Chassis Cab and DRW pickup models)
- Roof clearance lights (standard on Chassis Cab and required on Pickup models)
- Steering damper
- Engine oil cooler, auxiliary automatic transmission oil cooler and maximum capacity engine coolant radiator are standard
- All available axle ratios are acceptable
- When snowplowing, operate automatic transmission with shift lever in Overdrive position.

Completed Vehicle Weight

Snowplow weights (maximum recommended): Refer to the tables below

The vehicle must not be operated when over-loaded. A vehicle is over-loaded when the weight of the completed vehicle with aftermarket equipment installed, plus driver, passengers and cargo, exceeds either the FGAWR, RGAWR or GVWR displayed on the Safety Compliance Certification Label.

The addition of ballast weight placed rearward of the rear axle may be required to prevent exceeding the FGAWR, and provide good vehicle braking and handling. The ballast should be attached securely to the vehicle with consideration for the normal driving dynamics of snowplowing and occupant safety in accidents.

Pickup (1) Driver and One Passenger			Front / Rear Axle Weight Limits (2)(4)(5)				
			F250 SRW 4x4 (3)	F350 SRW 4x4 (3)	F350 DRW 4x4	F350 DRW 4x4 (Box Delete)	F450 DRW 4x4
Regular Cab	141.6" WB 56" CA	6.2L Gasoline	100/1005	100/1005	100/1005	-	-
		6.7L Diesel	100/1005	100/1005	100/1005	100/1005	-
Super Cab	148.0" WB 40" CA	6.2L Gasoline	100/1005	100/1005	-	-	-
		6.7L Diesel	100/950	100/900	-	-	-
	164.2" WB 56" CA	6.2L Gasoline	100/1005	100/1005	100/1005	-	-
		6.7L Diesel	100/800	100/800	100/800	100/800	-
Crew Cab	159.8" WB 40" CA	6.2L Gasoline	100/1005	100/1005	-	-	-
		6.7L Diesel	100/850	100/850	-	-	-
	176.0" WB 56" CA	6.2L Gasoline	100/1005	100/1005	100/1005	-	-
		6.7L Diesel	100/700	100/700	100/650	100/700	100/600

(1) Includes Pickups ordered with Pickup Box Delete option.
 (2) 100/750 = maximum 100 lb. of permanently-attached hardware and maximum 750 lb. of removable plow blade and hardware. The plow and hardware weight limits shown are based upon a vehicle with 33% Ford Option content and a total of 300 lb. for the driver and one front seat passenger (150 lb. Each).
 (3) Considering 10,000 lb. GVWR and A/T tires.
 (4) Considering maximum GVWR offered (variable) and A/T tires.
 (5) This chart only shows the Maximum Recommended values.

For Ford completed vehicles of 10,000 lb. GVWR or less, the weight of permanently attached aftermarket equipment must not exceed the Total Accessory Reserve Capacity (TARC) displayed on the Safety Compliance Certification Label to maintain the compliance representation that came with the Ford built vehicle. Exceeding TARC may require re-certification. This applies only to the permanently attached equipment, such as the snowplow frame mounting hardware, and not to the removable portion of the snowplow blade assembly.

Front End Wheel Alignment and Headlight Aim

Front end wheel alignment (toe) and headlight aim may require readjustment after installation of snowplow equipment. Failure to reset front wheel alignment may cause premature uneven tire wear. If required, reset to chassis manufacturer's specifications found in the *Ford Shop Manual*.

Electrical Connections

Installation of any inductive load devices, such as electric motors or electric clutches for clutch pumps, must not be connected to Ford vehicle wiring or fuse panels. Power for such devices should be taken directly from the battery or starter motor relay power terminal. Control of these devices should be achieved via relays. No direct current path should exist between Ford vehicle wiring and the installed load that is not filtered by the battery. These recommendations are intended to eliminate or minimize any induced reverse voltage into the Ford circuitry.

Warranty

The Ford New Vehicle Limited Warranty applies to vehicles with snowplows installed in accordance with these guidelines. Consult your Ford dealer or the *Owner's Guide* for any further questions.

Chassis Cab Driver and One Passenger			Front / Rear Axle Weight Limits (2)(4)(5)							
			F350 SRW 4x4 18" (3)	F350 DRW 4x4 14,000 LB GVWR	F450 DRW 4x2 16,500 LB GVWR	F450 DRW 4x4 16,500 LB GVWR	F550 DRW 4x2 18,000 LB GVWR	F550 DRW 4x4 18,000 LB GVWR	F550 DRW 4x2 19,000/ 19,500 LB GVWR	F550 DRW 4x4 19,000/ 19,500 LB GVWR
Regular Cab	145.3" WB 60" CA	6.2L Gasoline	100/1005	100/1005	-	-	-	-	-	-
		6.8L V10 Gasoline	-	-	100/1350	100/1350	100/1350	100/1350	100/1350	100/1350
		6.7L Diesel	100/950	100/950	100/1350	100/1250	100/1350	100/1200	100/1350	100/1250
	169.3" WB 84" CA	6.2L Gasoline	-	100/1005	-	-	-	-	-	-
		6.8L V10 Gasoline	-	-	100/1350	100/1350	100/1350	100/1350	100/1350	100/1350
		6.7L Diesel	-	100/900	100/1350	100/1250	100/1350	100/1200	100/1350	100/1200
	193.3" WB 108" CA	6.2L Gasoline	-	-	-	-	-	-	-	-
		6.8L V10 Gasoline	-	-	100/1350	100/1350	100/1350	100/1350	100/1350	100/1350
		6.7L Diesel	-	-	100/1350	100/1200	100/1350	100/1150	100/1350	100/1150
	205.3" WB 120" CA	6.2L Gasoline	-	-	-	-	-	-	-	-
		6.8L V10 Gasoline	-	-	100/1350	100/1350	100/1350	100/1350	100/1350	100/1350
		6.7L Diesel	-	-	100/1350	100/1150	100/1350	100/1100	100/1350	100/1150
Super Cab	167.9" WB 60" CA	6.2L Gasoline	100/1005	100/1005	-	-	-	-	-	
		6.8L V10 Gasoline	-	-	100/1350	100/1350	100/1350	100/1350	100/1350	100/1350
		6.7L Diesel	100/850	100/800	100/1350	100/1250	100/1350	100/1200	100/1350	100/1200
	191.9" WB 84" CA	6.2L Gasoline	-	-	-	-	-	-	-	-
		6.8L V10 Gasoline	-	-	100/1350	100/1350	100/1350	100/1350	100/1350	100/1350
		6.7L Diesel	-	-	100/1350	100/1150	100/1350	100/1100	100/1350	100/1100
Crew Cab	179.8" WB 60" CA	6.2L Gasoline	100/1005	100/1005	-	-	-	-	-	
		6.8L V10 Gasoline	-	-	100/1350	100/1350	100/1350	100/1350	100/1350	100/1350
		6.7L Diesel	100/800	100/750	100/1350	100/1150	100/1350	100/1150	100/1350	100/1100
	203.8" WB 84" CA	6.2L Gasoline	-	-	-	-	-	-	-	-
		6.8L V10 Gasoline	-	-	100/1350	100/1350	100/1350	100/1350	100/1350	100/1350
		6.7L Diesel	-	-	100/1350	100/1100	100/1300	100/1050	100/1300	100/1050

Model Not Available