

B31056

UNDERCARRIAGE KIT

Ford F-150

1992 - 96

Parts List and Installation Instructions

A CAUTION

Read this document before installing the snowplow.

A CAUTION

See your BLIZZARD® outlet/Web site for specific vehicle application recommendations before installation. The Undercarriage Selection Guide has specific vehicle and snowplow requirements.

SAFETY DEFINITIONS

A WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

A CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTE: Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

WARNING/CAUTION & INSTRUCTION LABELS

Become familiar with and inform users about the warning and instruction labels on the back of the blade.

NOTE: If labels are missing or can not be read, see your sales outlet.

Warning and Caution Label



WARNING

LOWER BLADE WHEN VEHICLE IS PARKED.

DO NOT EXCEED GVWR OR GAWR INCLUDING BLADE AND BALLAST.

REMOVE BLADE ASSEMBLY BEFORE PLACING VEHICLE ON HOIST.



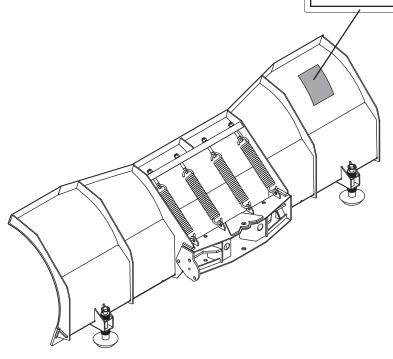
CAUTION

READ OWNER'S MANUAL BEFORE OPERATING OR SERVICING SNOWPLOW.

TRANSPORT SPEED SHOULD NOT EXCEED 45 MPH. FURTHER REDUCE SPEED UNDER ADVERSE TRAVEL CONDITIONS.

PLOWING SPEED SHOULD NOT EXCEED 10 MPH.

SEE YOUR SALES OUTLET/WEB SITE FOR SPECIFIC VEHICLE APPLICATION RECOMMENDATIONS.



SAFETY PRECAUTIONS

Improper installation and operation could cause personal injury, and/or equipment and property damage. Read and understand labels and the Owner's Manual before installing, operating or making adjustments.

A WARNING

Lower blade when vehicle is parked.
Temperature changes could change hydraulic pressure, causing the blade to drop unexpectedly or damaging hydraulic components. Failure to do this could result in serious personal injury.

A WARNING

The driver shall keep bystanders clear of the blade when it is being raised, lowered or angled. Do not stand between the vehicle and the blade or within 8 feet of a moving blade. A moving or falling blade could cause personal injury.

A WARNING

Keep hands and feet clear of the blade and A-frame when mounting or dismounting the snowplow. Moving or falling assemblies could cause personal injury.

A WARNING

Do not exceed GVWR or GAWR including the blade and ballast. The rating label is found on the driver-side vehicle door cornerpost.

WARNING

To prevent accidental movement of the blade, always turn the ON/OFF switch to OFF whenever the snowplow is not is use. The control indicator light will turn off.

A WARNING

Remove blade assembly before placing vehicle on hoist.

A CAUTION

Refer to the Undercarriage Selection Guide for minimum vehicle recommendations and ballast requirements.

PERSONAL SAFETY

- Remove ignition key and put the vehicle in park or in gear to prevent others from starting the vehicle during installation or service.
- Wear only snug-fitting clothing while working on your vehicle or snowplow.
- Do not wear jewelry or a necktie, and secure long hair
- Wear safety goggles to protect your eyes from battery acid, gasoline, dirt and dust.
- Avoid touching hot surfaces such as the engine, radiator, hoses and exhaust pipes.
- Always have a fire extinguisher rated BC handy, for flammable liquids and electrical fires.

FIRE AND EXPLOSION

A WARNING

Gasoline is highly flammable and gasoline vapor is explosive. Never smoke while working on vehicle. Keep all open flames away from gasoline tank and lines. Wipe up any spilled gasoline immediately.

Be careful when using gasoline. Do not use gasoline to clean parts. Store only in approved containers away from sources of heat or flame.

VENTILATION

A WARNING

Vehicle exhaust contains lethal fumes. Breathing these fumes, even in low concentrations, can cause death. Never operate a vehicle in an enclosed area without venting exhaust to the outside.

TORQUE CHART

A CAUTION

Read instructions before assembling.
Fasteners should be finger tight until instructed to tighten according to the torque chart. Use standard methods and practices when attaching snowplow including proper personal protective safety equipment.



Grade Identification for J429-Grade 5 Bolt



Grade Identification for J429-Grade 8 Bolt

SAE J429 Grade 5 Torque Values				SAE J429 Grade 8 Torque Values			
Nominal	Clamp Loads	Tightening Torque		Nominal	Clamp Loads	Tightening Torque	
Thread Size	(lb)	"Lubricated"	"Dry"	Thread Size	(lb)	"Lubricated"	"Dry"
1/4-20	2,000	6 ft-lb	8 ft-lb	1/4-20	2,850	9 ft-lb	12 ft-lb
5/16-18	3,350	13 ft-lb	18 ft-lb	5/16-18	4,700	18 ft-lb	25 ft-lb
3/8-16	4,950	23 ft-lb	31 ft-lb	3/8-16	6,950	32 ft-lb	44 ft-lb
7/16-14	6,800	37 ft-lb	50 ft-lb	7/16-14	9,600	53 ft-lb	70 ft-lb
1/2-13	9,050	57 ft-lb	75 ft-lb	1/2-13	12,800	80 ft-lb	107 ft-lb
9/16-12	11,600	82 ft-lb	109 ft-lb	9/16-12	16,400	115 ft-lb	154 ft-lb
5/8-11	14,500	113 ft-lb	151 ft-lb	5/8-11	20,300	159 ft-lb	211 ft-lb
3/4-10	21,300	200 ft-lb	266 ft-lb	3/4-10	30,100	282 ft-lb	376 ft-lb
7/8-9	29,435	321 ft-lb	430 ft-lb	7/8-9	41,550	454 ft-lb	606 ft-lb
1-8	38,600	482 ft-lb	640 ft-lb	1-8	54,540	680 ft-lb	900 ft-lb



Grade Identification for Metric-Grade 8.8 Bolt



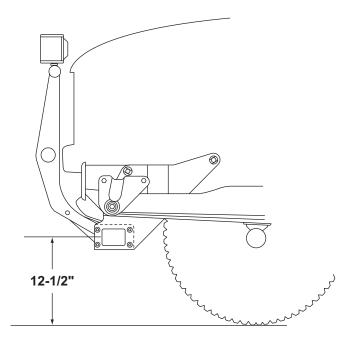
Grade Identification for Metric-Grade 10.9 Bolt

У Оі	ade identificatio	ir ioi motilo Oi	ade ole Belt	Stade Identification for Metric Grade 10.3 Box					
	Metric Class 8.8 Torque Values				Metric Class 10.9 Torque Values				
Diameter (mm)	Clamp Loads (lb)	Tightening Torque		Diameter	Clamp Loads	Tightening Torque			
		"Lubricated"	"Dry"	(mm)	(lb)	"Lubricated"	"Dry"		
5	1,389	3 ft-lb	5 ft-lb	5	1,987	5 ft-lb	7 ft-lb		
6	1,965	6 ft-lb	8 ft-lb	6	2,812	8 ft-lb	11 ft-lb		
7	2,826	10 ft-lb	13 ft-lb	7	4,044	14 ft-lb	19 ft-lb		
8	3,579	14 ft-lb	19 ft-lb	8	5,121	20 ft-lb	27 ft-lb		
10	5,672	28 ft-lb	37 ft-lb	10	8,116	40 ft-lb	53 ft-lb		
12	8,243	49 ft-lb	65 ft-lb	12	11,796	70 ft-lb	92 ft-lb		
14	11,246	77 ft-lb	103 ft-lb	14	16,092	111 ft-lb	148 ft-lb		
16	15,882	125 ft-lb	167 ft-lb	16	21,970	173 ft-lb	231 ft-lb		
18	19,423	172 ft-lb	229 ft-lb	18	26,868	238 ft-lb	317 ft-lb		
20	24,784	244 ft-lb	325 ft-lb	20	34,284	338 ft-lb	450 ft-lb		

PUSHBEAM

PUSHBEAM HEIGHT

The recommended pushbeam height for this undercarriage assembly is 12-1/2" from the center of the pushbeam to level ground. DO NOT exceed 14-1/2" in height for this undercarriage.



UNDERCARRIAGE INSTALLATION

NOTE: For easier assembly and installation, vehicle and all snowplow components should be on a smooth, level, hard surface, such as concrete.

- Remove the bumper from the truck frame rail.
- Remove the plastic bumper fascia mounted to the bottom of the bumper.

NOTE: This will need to be notched to be reused or permanently removed.

 Align the rear mount holes on the pushbeam (Item 1) with the brackets located under each frame rail.

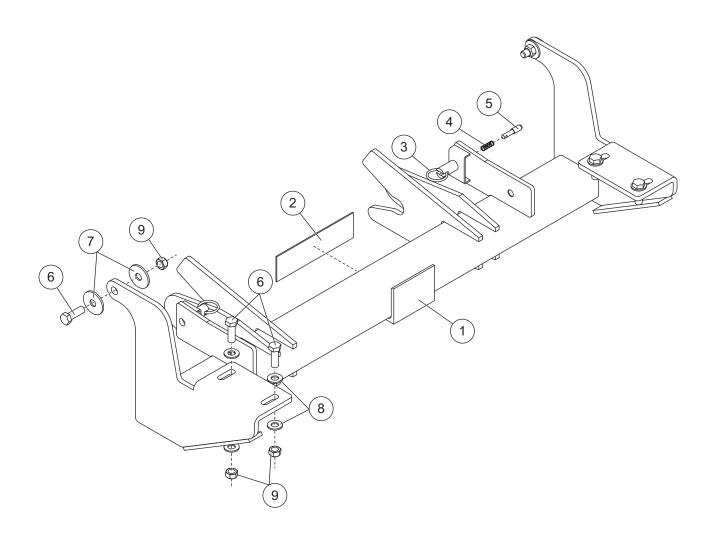
NOTE: The sway bar needs to be unfastened and the pushbeam sandwiched between the frame and the sway bar mount.

Secure with cap screws (Item 6), washers (Item 8) and locknuts (Item 9). Finger tighten the fasteners until all undercarriage parts are in place.

- 4. Align the front mount holes on the pushbeam with the holes on the outside of the frame rails. Secure with cap screws (Item 6), washers (Item 7) and locknuts (Item 9).
- 5. Level the pushbeam with the floor and tighten the pushbeam hardware according to the torque chart.
- Replace the bumper and fascia, notching fascia to fit

NOTE: After five to ten hours of snowplow usage, retorque all undercarriage assembly fasteners.

UNDERCARRIAGE PARTS LIST



B31056 Undercarriage Kit								
Item	Part	Qty	Description	Item	Part	Qty	Description	
1	B31057	1	Pushbeam	4	B61000	2	Compression Spring SS	
2	B63162	1	Decal, Pushbeam	5	B40079	2	A-Frame Latch Pin	
3	B61309	2	Split Ring, 1.25 OD	ns	B61208	1	Hardware Kit – B31056	
B61208 Hardware Kit – B31056								
6	90210	6	1/2-13 x 1-1/2 Hex Cap Screw G5	8	90572	8	1/2 Hardened Flat Washer	
7	91105	4	1/2 Flat Washer, Wide	9	90593	6	1/2-13 Hex Locknut GC	
G = Grade		ade SS = Stair	SS = Stainless Steel			ns = not shown		



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