



## INSTALLATION INSTRUCTION

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Part #FORD-RSDSW-001

### Notice to Dealer / Consumer

**Important! Read all instructions before attempting any work on the vehicle.**

**Disclaimer Notice:** Installing this suspension system on any vehicle implies that you are in agreement with the following term and conditions with respect to that vehicle, the vehicle owner, and any or all occupants of said vehicle at any time:

- Sky Manufacturing is not responsible and cannot be held responsible for any conditions of said vehicle, including but not limited to the following: 1) Any and all adverse behavior, premature failure, or breakage caused by oversized tires and wheels, improper installation, failure to follow instructions, or any general negligence caused by installer or owner of said vehicle. 2) Any breakage or premature failure caused by racing or driver negligence. 3) Any incident determined to be caused by an increase height in said vehicle's center of gravity. 4) Any incident determined to be caused by improper installation. 5) Any incident determined to be caused by a failure of materials.
- Sky Manufacturing is to be held harmless by the installer of this suspension component, owner of said vehicle, and any parties related directly or indirectly to said vehicle or owner of said vehicle. Sky Manufacturing is to be held harmless by all parties mentioned during the course of any and all circumstances or incidence resulting from the installation of this suspension component.
- It is not the intention of Sky Manufacturing that said vehicle be modified for use on public highways sanctioned by the Department of Transportation, or any state or local governing body. Vehicle owner accepts sole responsibility for ensuring that said vehicle is not in violation of local, state, or federal laws or vehicle code. Please check local vehicle laws and regulations before modifying your vehicle.

**By installing this kit or having this kit installed on your vehicle, you are implying that you agree to the above terms and conditions. Please do not install this system if you do not agree.**

## WARNING:

**Vehicles modified for Off-road use may handle differently and vehicle may roll-over.**

Vehicles modified for off-road use are generally do not improve in cornering or maneuverability on the highway, therefore it is imperative to familiarize yourself and all operators with the specific driving characteristics of the vehicle. Failure to operate in a safe and conservative manner may cause you, your passengers, and/or third parties to suffer serious injury or even death if control is lost.

Always wear your seatbelt and shoulder harness. Seatbelts not only help to protect occupants from injury but also keep the driver behind the wheel and in control when operating in rough terrain. Always remain on trails and observe conservation techniques while operating your vehicle.

## Bill of Materials

Qty	Description
2	Front Hangers
2	Shackle Flip Hangers
2	Boomerang Shackles
1	Ebrake Bracket
1	Hardware Pack

### Tools Recommended:

-1-1/16, 15/16, 7/8, 13/16, 3/4 Socket and same size end wrenches

-1/2 impact gun or Breaker Bar

-Air Hammer and Large Hammer

-Straight or 90 Die Grinder

-1/2" Step or Drill Bit, Center Punch

-Torch

-Welder (Ebrake bracket install)

### Hardware Pack

20	1/2" x 1.5" Hex Bolts	2	20x150mm Bolts
2	1/2" x 2.5 Hex Bolts	2	20mm Nylocks
22	1/2" locknuts	2	5/8x5.5" Bolts
44	1/2" washers	2	5/8" Nylocks
2	9/16" x 5" hex bolts	8	5/8" Flat Washers
2	9/16" locknuts	4	Shackle Bushings M02221
4	9/16" washers	2	Bracket Spacer
2	Bushing Sleeves S1006		

### INSTALLATION NOTES:

- Inspect the contents of the kit and read the entire instructions before proceeding.
- We recommend this installation be performed by a qualified technician.
- Torque all hardware to factory specifications.
- We recommend using red Loctite on all bolts.
- When removing wheels, support vehicle with jack stands.
- Exhaust modifications may be necessary.

1. Secure Vehicle Properly, support rear axle and remove rear tires, U-bolts, and leaf springs.
2. Remove front and rear spring hangers by torching, grinding, or air-hammering out the factory rivets.

**On both sides**, knock rivets out of the frame, drill all the rear hanger holes and the three front holes on the front hangers to 1/2".

Only Necessary to drill out front 3 holes

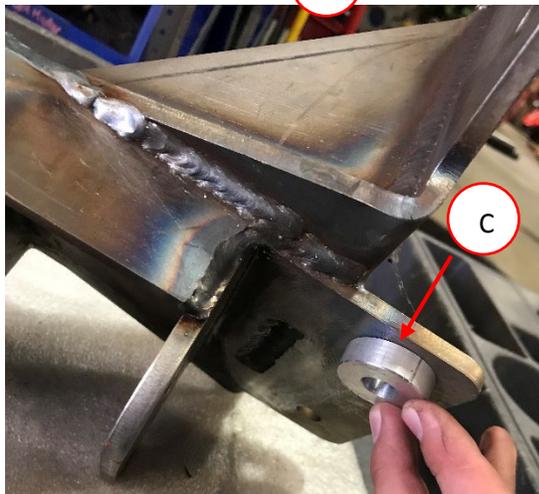
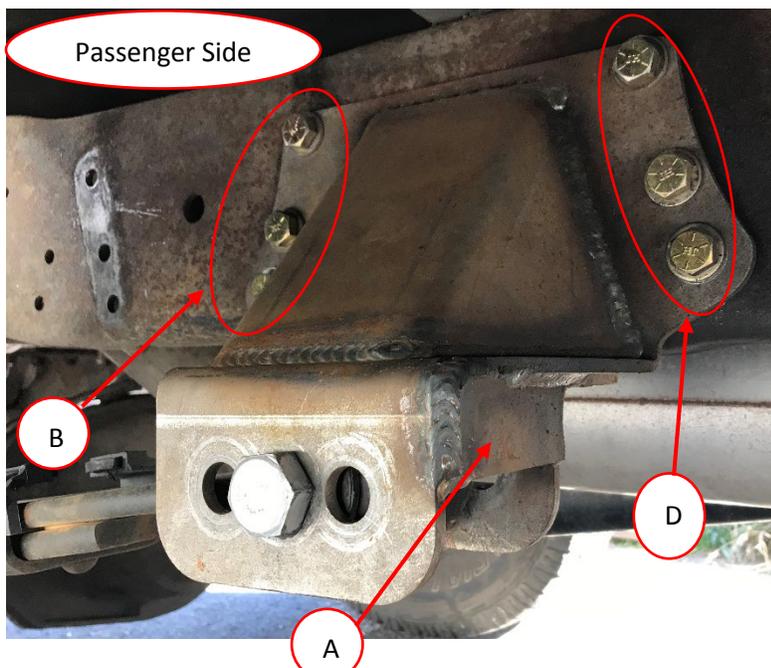


3. Install Rear Shackle Flip (there is a left and right, line holes in frame up with bracket so it runs close to parallel with the frame) secure using 1/2-1.25" bolts. Bolt Conversion Boomerang shackle with bushings and sleeves in forward holes using 9/16 Bolts.

Passenger Side



4. Follow these next steps carefully and it will save a bunch of time!



A. Front Brace Forward

B. Install hanger using the three forward factory holes from old hanger. Snug up with three 1/2x1.25" bolts.

C. Slide Aluminum insert between frame and bracket, line it up with the forward 1/2" hole. Clamp Hanger to bottom of frame.

D. Center punch and drill out the three forward holes on the bracket in the frame, secure with 1/2x1.25" bolts.

Lastly, center punch and drill vertical hole through frame to secure the aluminum spacer and bracket referred to in "Step C". Use 1/2-2" bolt.

Repeat for hanger on drivers side.

Single cab and extra cab trucks may have to loosen and slide front fuel tank over to mount front drivers side hanger.

5. Install leaf springs with supplied hardware (20MM in the front and 5/8ths rear)

6. Mount U-bolts and potentially blocks depending on your situation.

7. To install ebrake bracket, run the cables through the two large holes and position on the hanger to where you have enough slack on the axle side. We weld them in place, there are two pilot holes in the bracket for bolt holes if you choose to attach it that way. For a lifted truck you may need to loosen your cable adjuster, flip bracket around, and slide towards the rear to give enough slack for the suspension to cycle.



8. Install rear tires and you're finished!