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ABAR11010 04-07 F-150 Rear AirBar

2	F9100	Tapered sleeve air spring
1	A525-2	Lower bridge
2	A523-1	Upper axle bracket
1	A527-1D	Driver side upper air spring mount
1	A527-1P	Passenger side upper air spring mount
1	A522-1P	Passenger side upper bar frame mount
1	A522-1D	Driver side upper bar frame mount
1	A315-1	Panhard bar axle bracket
2	A105	Lower air spring plate
2	BARTW12.375	Upper bar (CC 14.125")
2	BARWW27.25	Lower bar
1	BARTW21.813	Panhard bar (CC 23.437)
3	ROD1000	Threaded rubber rod end
5	ROD302	Rubber bushing (pressed into bar end)
4	DAYM02909	Poly bushings for lower bars
2	A246	Inner bushing sleeves for lower bars
2	DAY2060	Short bump stops
2	MON33097	Rear shocks
2	DAYS10071	Shock sleeves
1	Hardware Kit	
8	5/8" x 2 3/4" SAE Gr. 8 bolt	Bar ends to brackets
8	5/8" SAE Gr. 8 Thin Nyloc nut	Bar ends to brackets
2	1/2" x 2 1/2" USS Gr. 5 bolt	Lower shock mount
2	1/2" USS Nylok nut	Lower shock mount
8	7/16" x 1 1/4" Gr. 5 USS bolt	Upper bar mount to frame
8	7/16" USS Nylok nut	Upper bar mount to frame
16	7/16" SAE flat washer	Upper bar mount to frame
3	5/16" x 1" USS bolt	Panhard axle bracket to rear end
3	5/16" lock washer	Panhard axle bracket to rear end
3	5/16" flat washer	Panhard axle bracket to rear end
4	3/8" x 1" USS bolt	Air spring mounting
15	3/8" flat washer	Air spring mounting & frame plates
15	3/8" lock washer	Air spring mounting & frame plates
11	3/8" x 1" self tapping bolt	Frame plates
4	3/8" cage nut	Frame plates & bump stops
8	5/8" x 6 1/2" SAE Gr. 8 bolt	Lower bridge mounting
8	5/8" SAE Gr. 8 Nyloc nut	Lower bridge mounting
16	5/8" SAE Gr. 8 flat washer	Lower bridge mounting

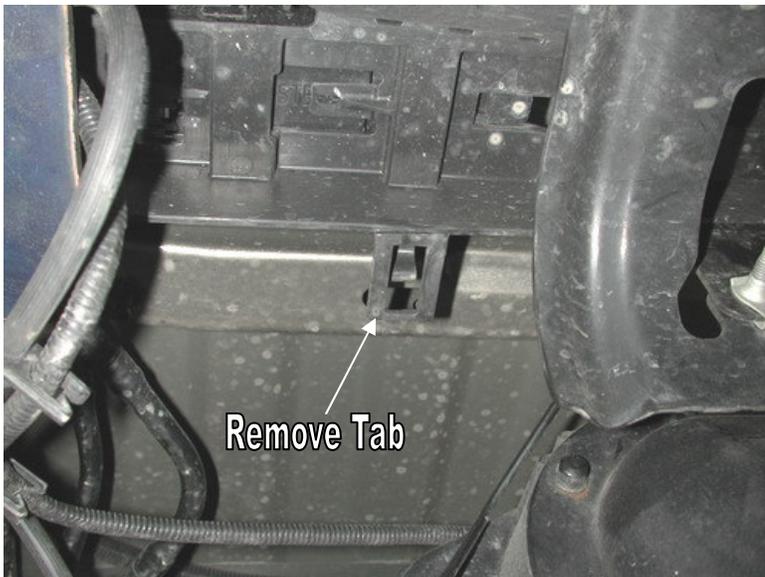


AirBAR[®]

by Air Ride Technologies

ABAR11010 Installation Instructions

1. Raise the vehicle to a safe and comfortable working height.
2. Support the axle and remove the leaf springs, shock absorbers, factory bump stops and front leaf spring hanger.
3. The rear leaf spring shackle and hanger may also be removed but is not necessary.
4. The exhaust tail pipe & mounts will also have to be removed from the rear of the muffler back. A turn down can be installed or a custom tail pipe can be made.



5. This tab on the front driver side of the charcoal canister must be removed for clearance.



6. Passenger side corner of the canister must also be trimmed at a 45 degree angle.



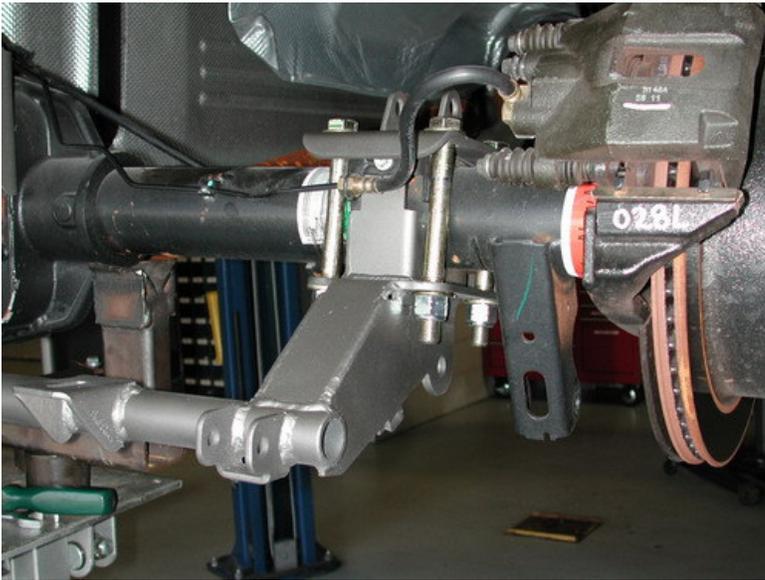
7. The spacer between the carrier bearing and the cross member must be removed to correct pinion angle. The factory bump stop bolts and a 3/8" washer can be used to remount the carrier bearing.



8. Bolt the upper air spring/shock mount to the frame. Using the bracket as a template drill the holes in the frame with a 5/16" bit. Fasten the plate to the frame using 3/8" x 1" self tapping bolts.

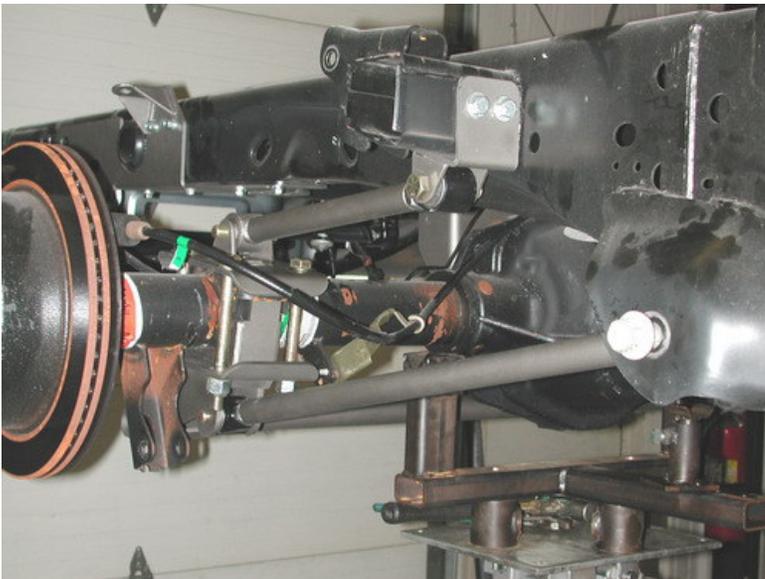


9. The two large holes in the back of the bracket are for trucks with a factory hitch. If your truck does not have a hitch the holes can be left empty.



10. Bolt the lower bridge to the factory leaf spring hanger using $5/8"$ x $8"$ bolts, Nylok nuts and flat washers. The upper bar mount will be on top of the axle.

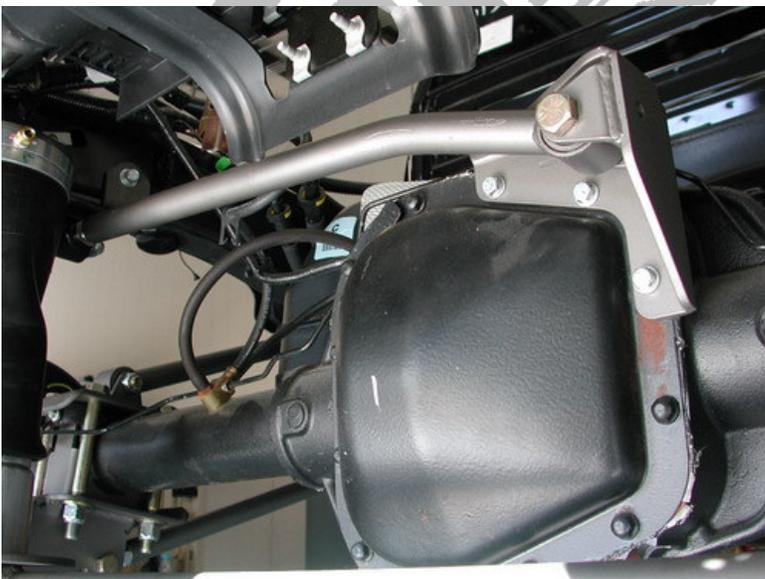
11. The brake line on the driver side must be bent in to clear the panhard bar. The brake line frame mount must be relocated to the bed brace.



12. Bolt the upper bar mount to the factory upper shock mount using four $7/16"$ x $1\ 1/4"$ bolts, Nylok jam nuts and flat washers.

13. Bolt the large end of the lower bar (longer one) to the factory leaf spring hanger using the factory hardware. Bolt the other end to the lower bridge using a $5/8"$ x $2\ 3/4"$ bolt and Nylok jam nut.

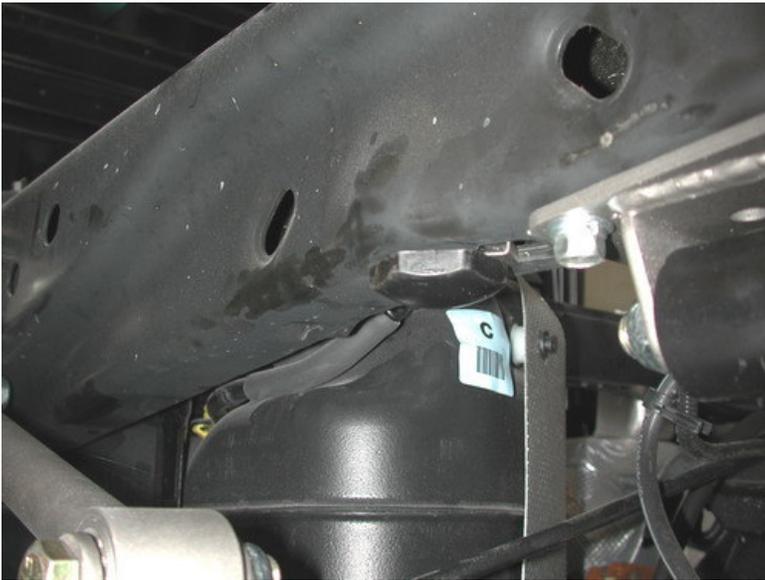
14. The upper bar will bolt in using $5/8"$ x $2\ 3/4"$ bolt and Nylok nuts.



15. Bolt the panhard bar axle bracket to the axle using three $5/16"$ x $1"$ bolts, lock washers and flat washers.

16. Bolt the panhard bar to the axle and frame brackets using $5/8"$ x $2\ 3/4"$ bolts and Nylok jam nuts. The bend in the bar will go toward the axle mount and point up.

Note: Tighten all 4 link and panhard bar bolts with the suspension at ride height. Ride height will be with the air spring at about $10.5"$ tall.



17. Bolt the new shorter bump stop to the frame using a 3/8" Nylok nut and flat washer.

18. Bolt the shock absorber to the upper mount using the bushing and hardware kit supplied. A 1/2" x 2 1/2" bolt and Nylok nut will secure the shock to the lower bridge.

19. Apply thread sealant to the air fitting and screw it into the top of the air spring.



20. Bolt the air spring to upper mount using a 3/8" x 1" bolt, lock washer and flat washer.

21. Place the lower air spring plate on top of the lower bridge. Fasten the air spring to the bridge using a 3/8" x 1" bolt, lock washer and flat washer. **Do not allow the air spring to rub on anything.** This will damage the unit and is not warrantable situation

22. Ride height on this air spring is around 10.5" tall, around 30 psi. This may vary to driver preference and vehicle weight.

