

INSTALLATION INSTRUCTIONS

* Installation Recommendation: JBA recommends in most cases that the vehicle be taken to a reputable exhaust shop.

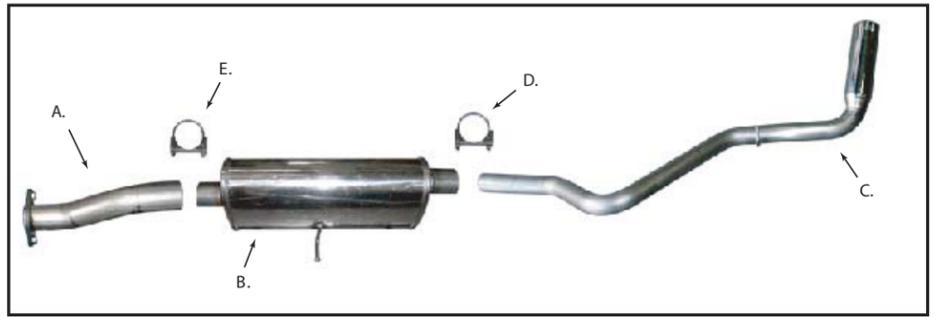
40-2540 1998-2004 Ford Ranger 2.5L / 3.0L / 4.0L 2/4wd Standard cab / short bed

RECOMMENDED TOOLS:

pry bar
ratchet
15mm deep socket
pair of channel lock pliers
anti-seize
spray lubricant or penetrating oil

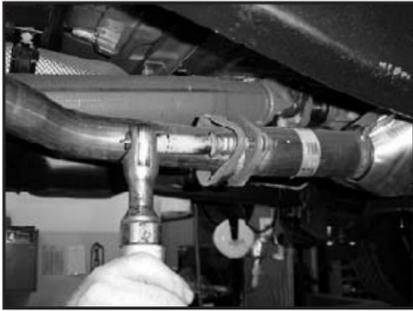
PARTS LIST:

A. Intermediate pipe	1
B. Muffler	1
C. Tail pipe	1
D. Rear muffler clamp	1
E. Front muffler clamp	1



TO START:

1. Remove and inventory JBA exhaust.
2. Disconnect negative battery cable and allow vehicle exhaust to cool.



3. With the vehicle raised and properly supported, use a 15mm socket to remove the bolts that attach the exhaust system to the Catalytic converter.



4. Using a pry bar or a pair of channel lock pliers remove hangers from rubber isolators at the top of the muffler.



5. Using the channel lock pliers, remove the tail pipe hanger from the rubber isolator.



6. Remove the original exhaust system from the vehicle.



7. Using original fasteners, connect intermediate pipe (A) to the factory catalytic converter pipe.



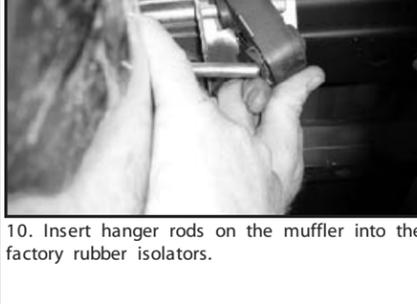
8. Tighten the fasteners.



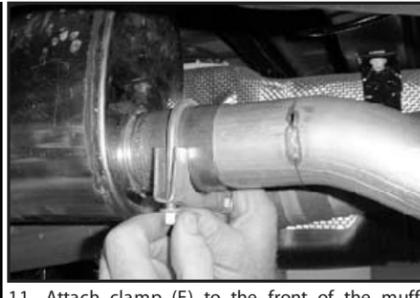
9. Slip muffler (B) onto intermediate pipe (A).



10. Insert hanger rods on the muffler into the factory rubber isolators.



11. Attach clamp (E) to the front of the muffler.



12. Install tailpipe (C).



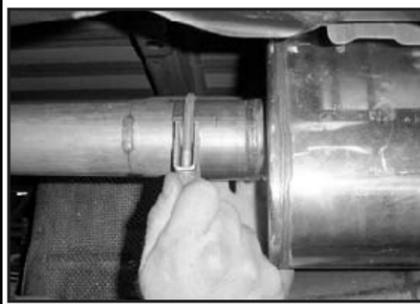
13. Insert tailpipe (C) into muffler (B).



14. Install tail pipe hanger into factory rubber isolator.



15. Install clamp (D) onto rear of muffler (#).



16. Align tail pipe (C). tighten clamp (D).



17. After installation, it is recommended that all clamps be re-tightened.

18. Tack weld all slip connections in three spots.

19. Lower the vehicle and reattach the negative battery cable.

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NOTES:

- 1) It may be necessary to loosen and realign the spare tire for proper clearance.
- 2) All exhaust systems will expand about 1" rearward when exhaust temperatures start to rise
- 3) Use Anti-seize on threads of clamps.