



BI-PIPE INSTALLATION MANUAL

AUDI PERFORMANCE & RACING

1027-B Opelika Road Auburn Alabama 36830

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Buyers of parts from AUDI PERFORMANCE & RACING or any authorized distributor are warned that they are sold for off-highway use only and special warranty provisions apply. Performance parts may exceed the design limits of the vehicle and its subsystems. Suitability and implementation of parts is at the sole discretion of the purchaser.

Customer agrees to operate the vehicle under the conditions set forth in this agreement and agrees to hold AUDI PERFORMANCE & RACING, LLC, its employees, corporate officers, and vendors, harmless by reason of any claim, damages, accident, or injuries resulting from the installation of the parts or the use of the vehicle with the installed parts.

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It is important that you read, understand and comply with the conditions set forth below.

AUDI PERFORMANCE & RACING, LLC products have been designed and are intended for off-highway applications only. Installation of these products may void the warranty coverage, if any, on your vehicle. Manufacturer vehicle and parts warranties may be voided if the vehicle or part is used for competition or if they fail as a result of modification. AUDI PERFORMANCE & RACING shall not be responsible should the manufacturer void its warranty by reason of installation of the part or any other modifications occasioned by the installation of said part. However, certain rights are guaranteed a new car owner regarding the manufacturer's warranty. SEMA (Specialty Equipment Manufacturer's Association) details your rights to modify your vehicle and retain warranty coverage: <http://www.sema.org/warranty/> Understanding this, you hereby release and discharge AUDI PERFORMANCE & RACING, LLC, employees, officers, and all other persons and associations connected therewith from any and all claims arising out of, or relating to, the parts purchased.

You have read and understood the conditions of sale set forth above. You also understand the additional conditions of sale set forth in the product sales literature of the respective manufacturers and this order form. You understand that any performance products purchased from AUDI PERFORMANCE & RACING, LLC, and installed implies acceptance of this disclaimer. Any claims on items sold by, but not manufactured by AUDI PERFORMANCE & RACING, LLC should be made with the respective manufacturer.

AUDI PERFORMANCE & RACING, LLC parts are sold with a warranty against defects in materials or workmanship. Abuse or use for purposes other than designed will void the warranty. Implied warranties, including warranties of merchantability or fitness for a particular purpose, are excluded.

RETURNS AND SHIPPING

No cancellation, refunds, exchange, or credit on used parts, modified parts, painted parts, special order parts or custom order parts. No refund, exchange, or credit after seven days. Returns of merchandise, for any reason, are subject to a 20% restocking fee. A RMA must be obtained before any parts are returned to us. Any return without a return authorization number (RMA) will be refused, and NO refund will be issued.

All shipping charges are not refundable and must be prepaid. All returned items must be in as-new, resellable condition. Any item that has been installed on a vehicle will not be accepted for return under any condition. Please note that certain items such as turbo kits, spare ECUs, wheels, exhausts, or special order items are non-returnable or refundable. All merchandise is in good condition when leaves our shipping department. If a part is lost (box broken, opened, etc) or damage via transit, you should immediately notify AUDI PERFORMANCE & RACING, LLC and the carrier (UPS, FedEx, etc...). ALL merchandise is shipped and insured for full value and the responsibility for proper delivery is upon the carrier. DO NOT return the damage part(s) without prior notification. Backorders are kept to minimum. If there is going to be an unreasonable delay, we will notify you of the approximate shipping date. Some items may be dropped shipped from the manufacturer.

AUDI PERFORMANCE & RACING, LLC primary shipping carrier is United Parcel Service. UPS policy states that all packages require a signature in order for the package to be released. It is up to your individual UPS driver's discretion if he feels comfortable leaving the package. All shipments with a value over \$1000/U.S. require a signature. Some shipments are drop shipped and may take up to 2 weeks to arrive. All orders except ECU upgrades will be sent via UPS ground service (domestic), unless otherwise specified. All ECU orders are shipped via UPS Next Business Day service (domestic) unless otherwise specified. No orders will be shipped to P.O., APO or FPO Boxes. Orders are normally processed the within two business days on receipt of order. After carrier attempts to deliver the merchandise three times, the order will be returned to Audi Performance and Racing and will only be reshipped at the buyers expense. All merchandise will be shipped FOB origin Auburn, Alabama, USA unless drop shipped.

All items held by deposits become AUDI PERFORMANCE & RACING LLC property if not claimed after 30 days.

PAYMENT

Payment may be made by VISA, MasterCard, American Express, and Discover. Payment is also accepted by Certified Cashiers Check or Money Order in US dollars only. For Cashiers Check or Money Order, please contact AUDI PERFORMANCE & RACING LLC in order to receive an exact payment amount for parts and shipping. Pre-payment will include charge for parts and freight. For spare ECU orders, the spare ECU itself must be paid in full at the time of order. There are no refunds or cancellations on spare ECUs that are ordered. If the spare ECU has not been shipped within 10 business days from the original date of order, the order may be cancelled, and a refund can be issued.

All prices are subject to change without prior notice. Please call for current prices and availability of products. AUDI PERFORMANCE & RACING LLC reserves the right to discontinue products as necessary because of quality, availability, price or other reasons.

PRIVACY

AUDI PERFORMANCE & RACING LLC does not sell, rent, trade, or loan our customer's names, VIN number, email address or any type of personal information we collect. You may receive information from us, detailing new products, tracking numbers for shipping, or new features on our web sites.

Magnetic retrieval tool

1/4" Ratchet Drive

3/8" Ratchet Drive

Torque Wrench

7" - 3/8" Drive Extension

Flat Head Screwdriver

Phillips Head
Screwdriver



Pliers

T-35 Torx Socket

5mm Allen Head Socket

10mm Socket

8mm Socket

3/8" Universal
Joint

ii. Tools Needed

2-80mm Bi-Pipe Intake Bolts
(Bag 3)


1 Boost Sensor O-ring
(Bag 2)

2 Diverter Valve Clamps
(Bag 4)

2 Round Spacers
(Bag 3)

2 6mm Flat Washers
(Bag 2)

1 Arched Spacer
(Bag 1)



2-55mm Throttle Adapter Bolts
(Bag 1)


1-30mm Adapter to Bi-Pipe Bolt
(Bag 3)

2-16mm Boost Sensor Bolts
(Bag 2)

2-Diverter Valve Hoses
(Bag 4)

2-Throttle Body O-rings
(Bag 2)

1 Bi-pipe



NOTE: illustrations
not to scale.



1. Allow engine to cool before beginning installation.

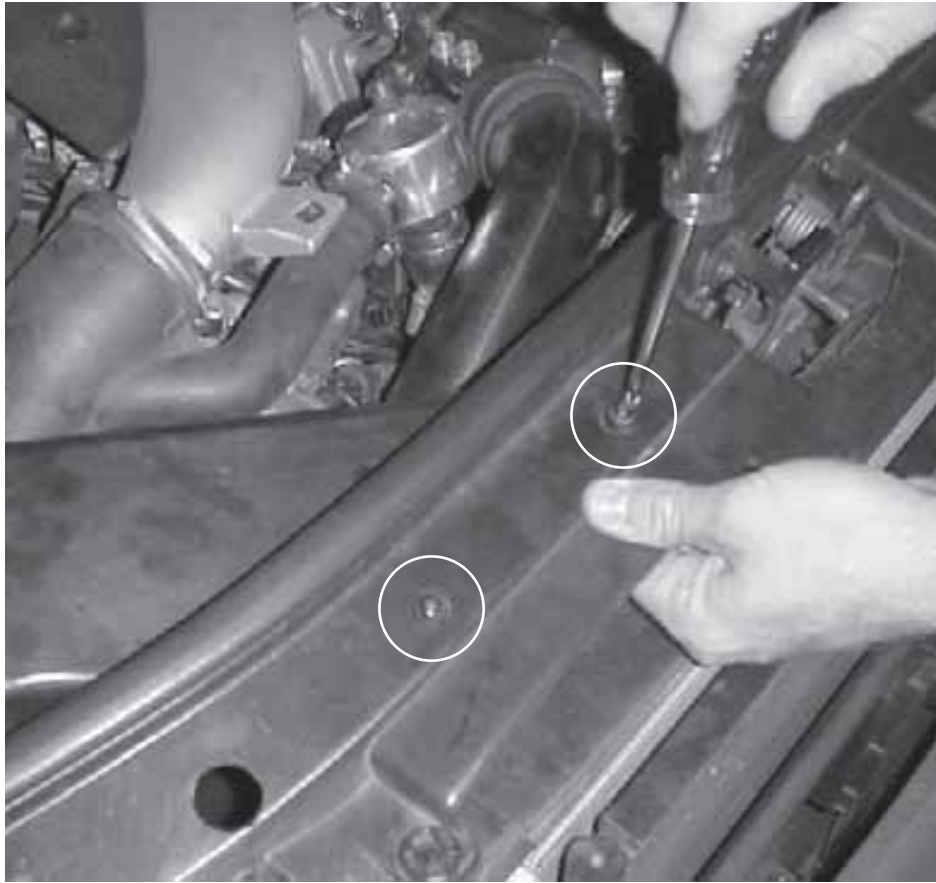
iv. Installation Procedure - Step 1

2. Remove throttle body cover by twisting the two ¼ turn mounting screws and pulling straight up on the cover.



TOOL NEEDED: Flat Head Screwdriver





3. Remove two screws securing the fresh air intake ducting.

TOOL NEEDED: Phillips Head Screwdriver



4.Remove ducting by pulling up on the left side first and then pull out.





5.Remove two 8mm nuts and washers securing the boost sensor.

TOOLS NEEDED: 1/4" Ratchet Drive and 8mm Socket



6.Remove two 5mm allen head bolts securing the boost sensor bracket and remove bracket.



TOOLS NEEDED: 3/8" Ratchet Drive and 5mm Allen Head Socket





7. Gently pull back clip on top of the plug housing and unplug boost sensor plug.

8. Loosen front throttle body boot clamps.



TOOL NEEDED: Flat Head Screwdriver





9. Generously loosen back throttle body boot clamp.

TOOL NEEDED: Flat Head Screwdriver



10. Loosen both boost frequency valve clamps from the left and right intake pipes and push hoses off.



TOOL NEEDED: Flat Head Screwdriver





11.Remove two bolts on top of passenger's side head lamp.

TOOLS NEEDED: 3/8" Ratchet Drive and T-35 Torque Head Socket

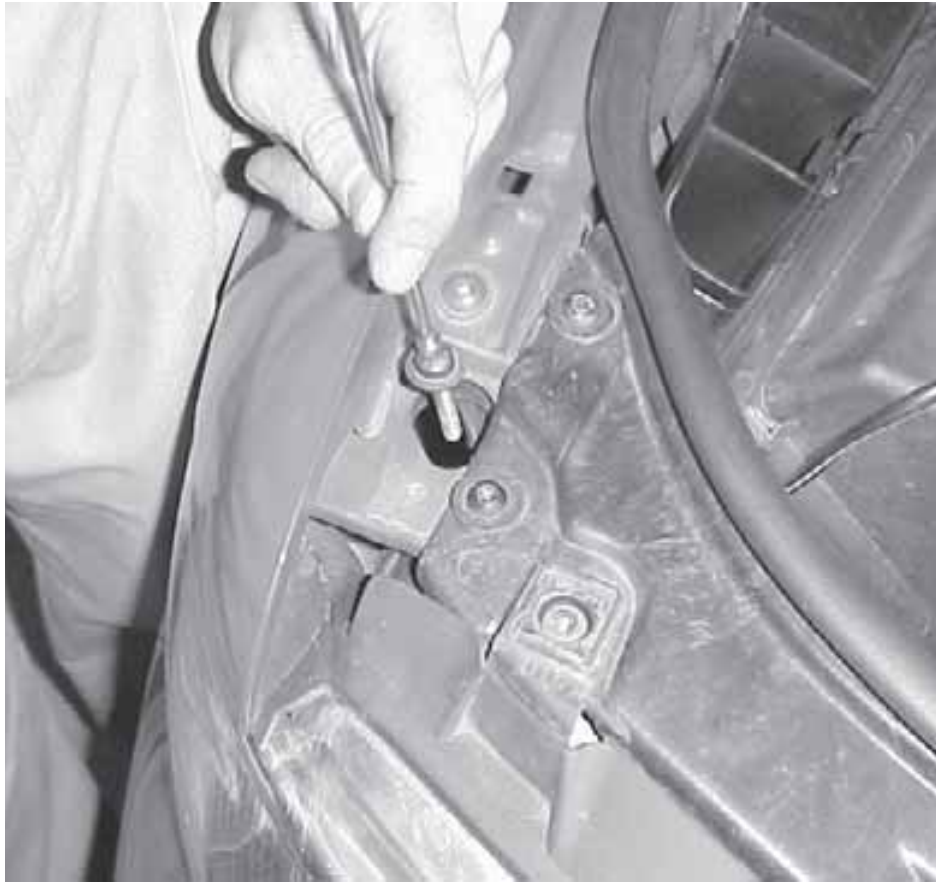


12. Loosen remaining head lamp bolt through hole in fender.



TOOLS NEEDED: 3/8" Ratchet Drive T-35 Torque
Head Socket and
7" Extension





13. Remove loosened bolt in fender with a magnetic retrieval tool.

TOOLS NEEDED: Magnetic Retrieval Tool



14. Slide head lamp to the left to dislodge the clip and then pull forward.





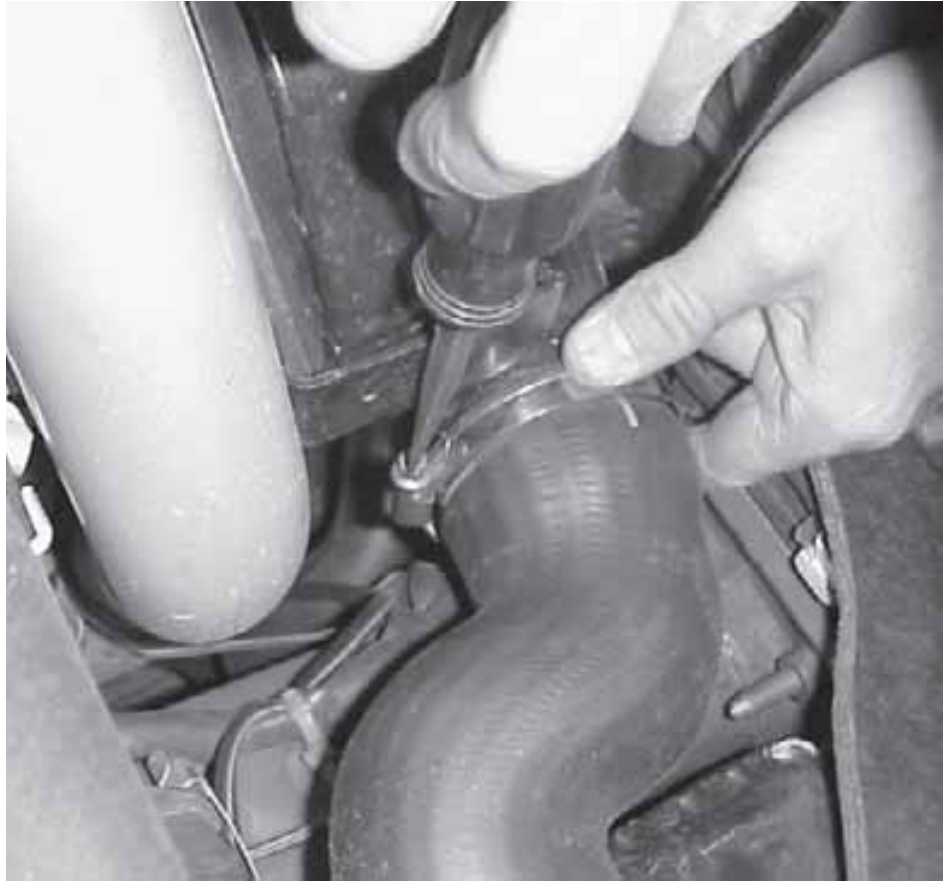
Head Lamp Plug

15. Gently pull back clip on top of the plug housing and unplug head lamp and blinker plugs.



Blinker Plug

16. Loosen lower left intake pipe hose clamp.



TOOL NEEDED: Flat Head Screwdriver





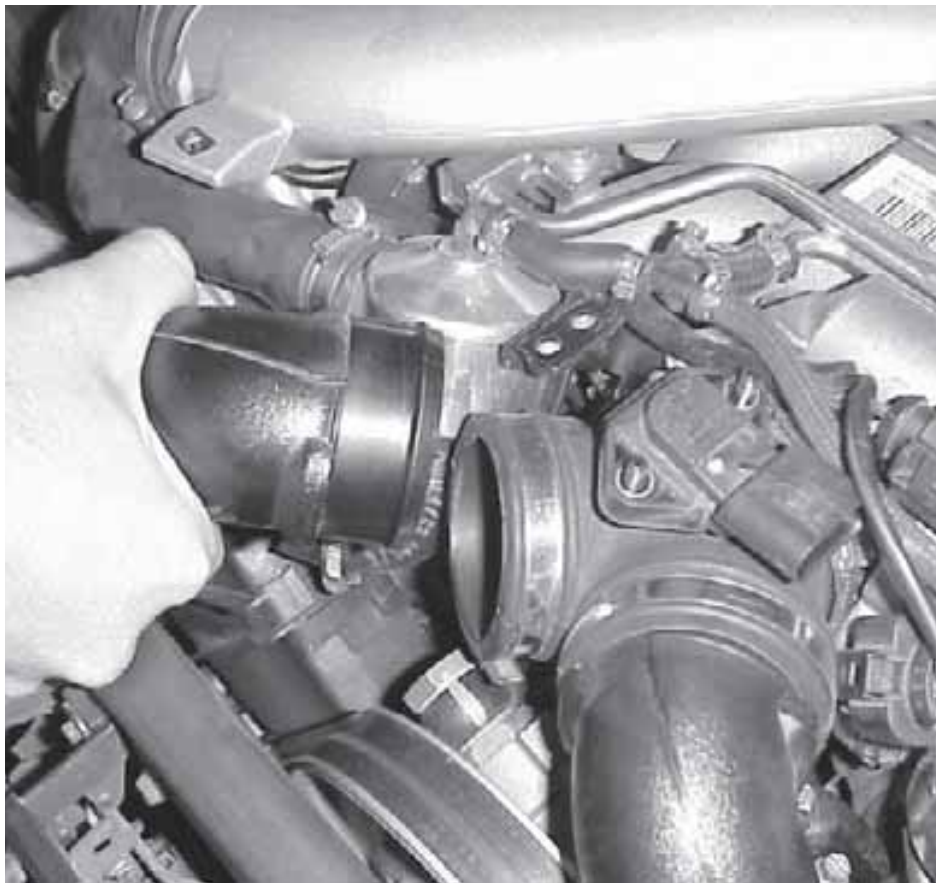
17. Remove mounting bolt on left side of passenger's side intake pipe.

TOOLS NEEDED: 1/4" Ratchet Drive and 10mm Socket



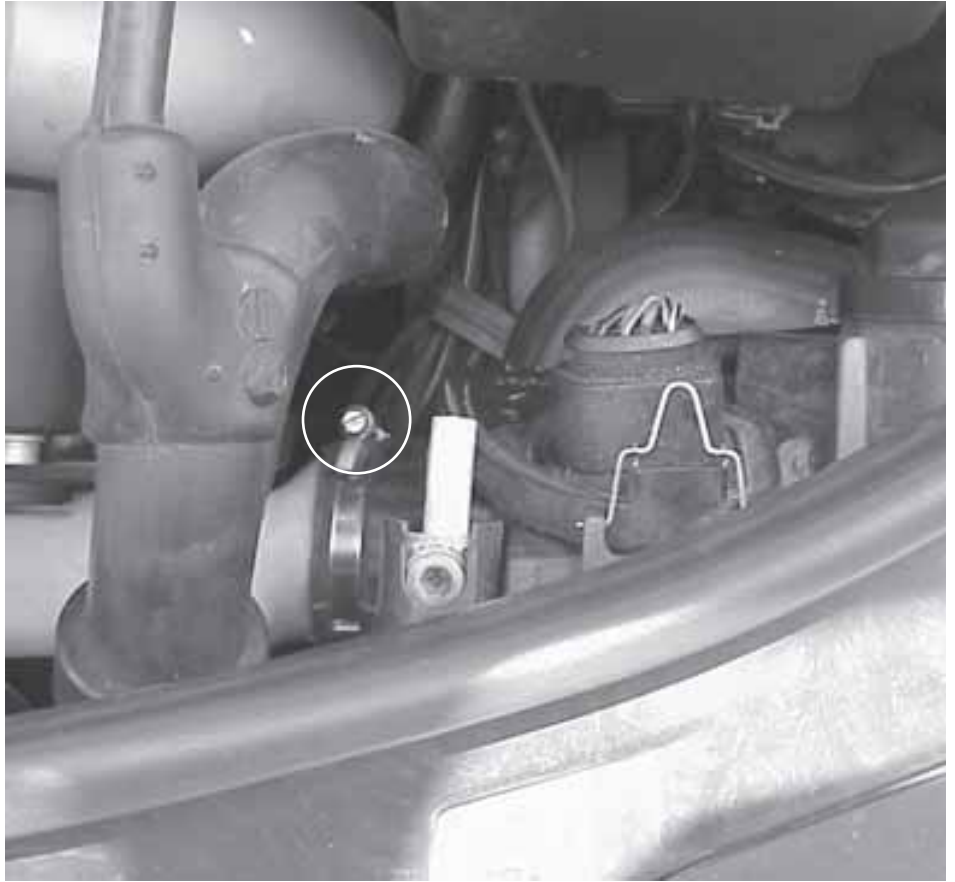
18. Gently pull back metal tab at mounting point in order to free left intake pipe.





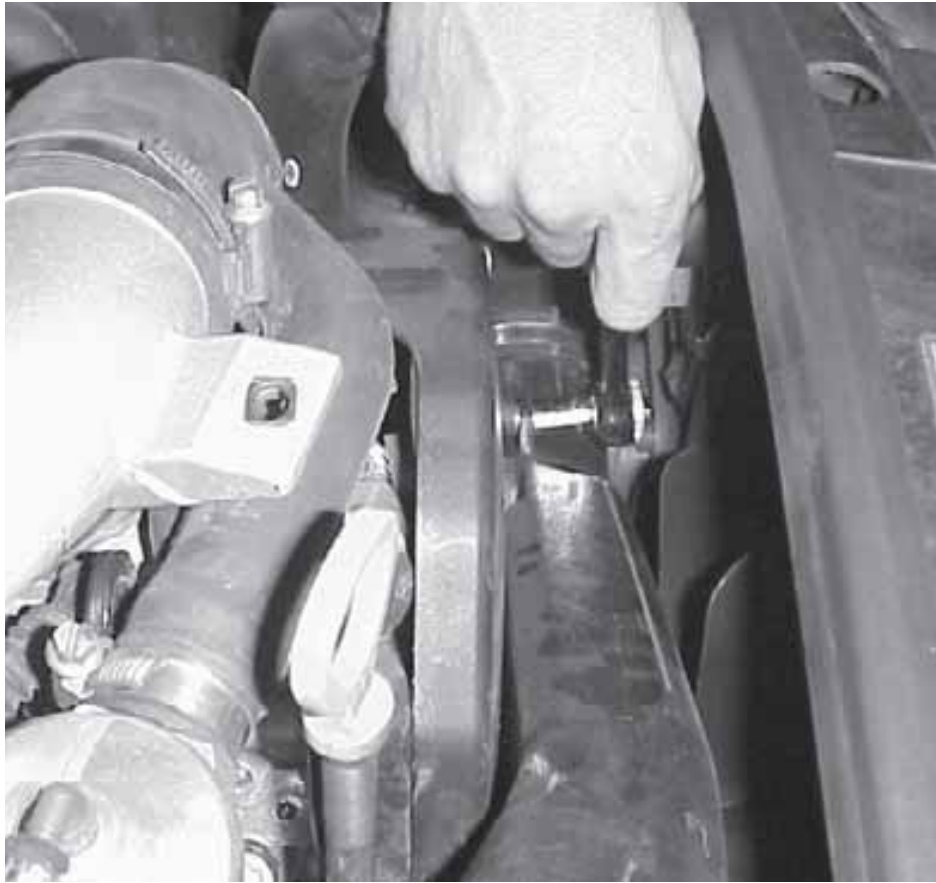
19. Remove the top end of the left intake pipe interfacing the throttle body boot first. Remove the opposite end next and then pull up.

20. Loosen hose clamp at lower end of right intake pipe.



TOOL NEEDED: Flat Head Screw Driver

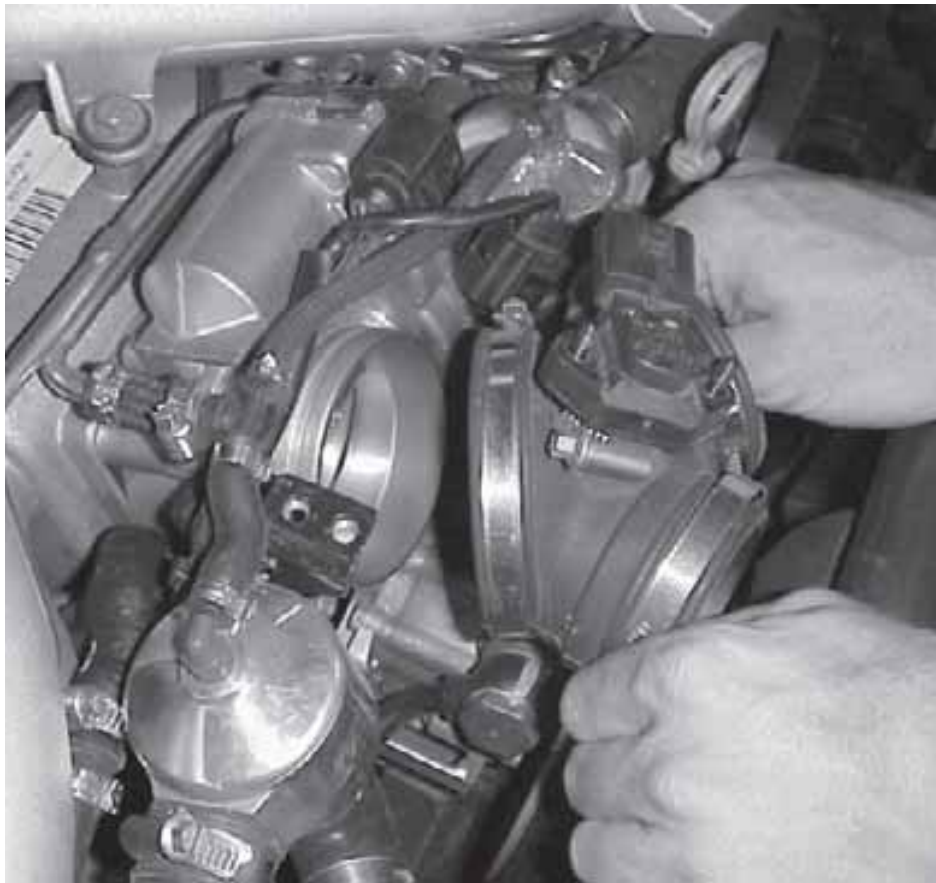




21. Remove right intake pipe mounting bolt.

22. Remove the top end of the right intake pipe interfacing the throttle body boot first. Remove the opposite end next and then pull up.





23. Remove throttle body boot by gently pulling out. Note: Will need this assembly later in the installation.

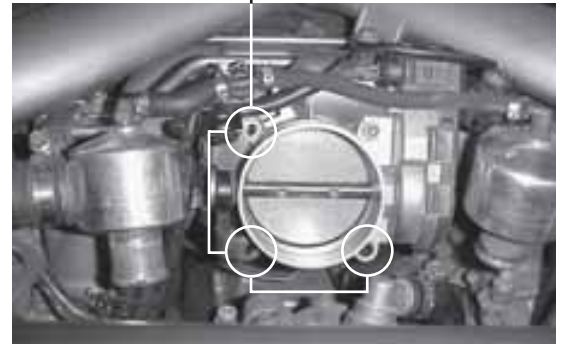
24. Remove both left and right boost frequency valve lower hoses by loosening the hose clamp and pulling them free.





25. Remove all throttle body bolts except top right.

Removed Bolts



TOOLS NEEDED: 3/8" Ratchet Drive and 5mm Allen Head Socket



26. Remove boost sensor bracket.





27. Remove wire strapping. Pinch the underside allowing it to slide free through the hole.

TOOLS NEEDED: Pliers



28. Install the arched lower adapter with two 55mm throttle adapter bolts, starting with right side. DO NOT use the round spacers.



TOOLS NEEDED: 3/8" Ratchet Drive and 5mm Allen Head Socket





29. Remove remaining throttle body bolt at top right.

30. Attach smaller end of APR diverter valve hose to left and right exposed diverter valve opening. Note: Be sure that remaining end of hose is pointed to the front of the vehicle.



NOTE: Pictured diverter valve is not included in kit.





31. Gently pull back clip on top of the plug housing and unplug throttle body wiring harness.

32. Before installing the o-rings, be sure the o-ring surface is clean and clear of dirt. Install two large o-rings into recessed section on throttle body. Note: Be sure o-rings are not twisted once installed.





33. Install Bi-Pipe. Slide the right side in first.

34. As the center section of the Bi-Pipe is aligned with the throttle body, be sure it clears the throttle body plug housing. Gently slide the Bi-Pipe onto the throttle body being careful not to tear the o-ring.





35. Hold up the left intercooler hose to allow the left side of the Bi-Pipe to pass through.

36. Install both diverter valve hoses onto the Bi-Pipe and tighten clamps.



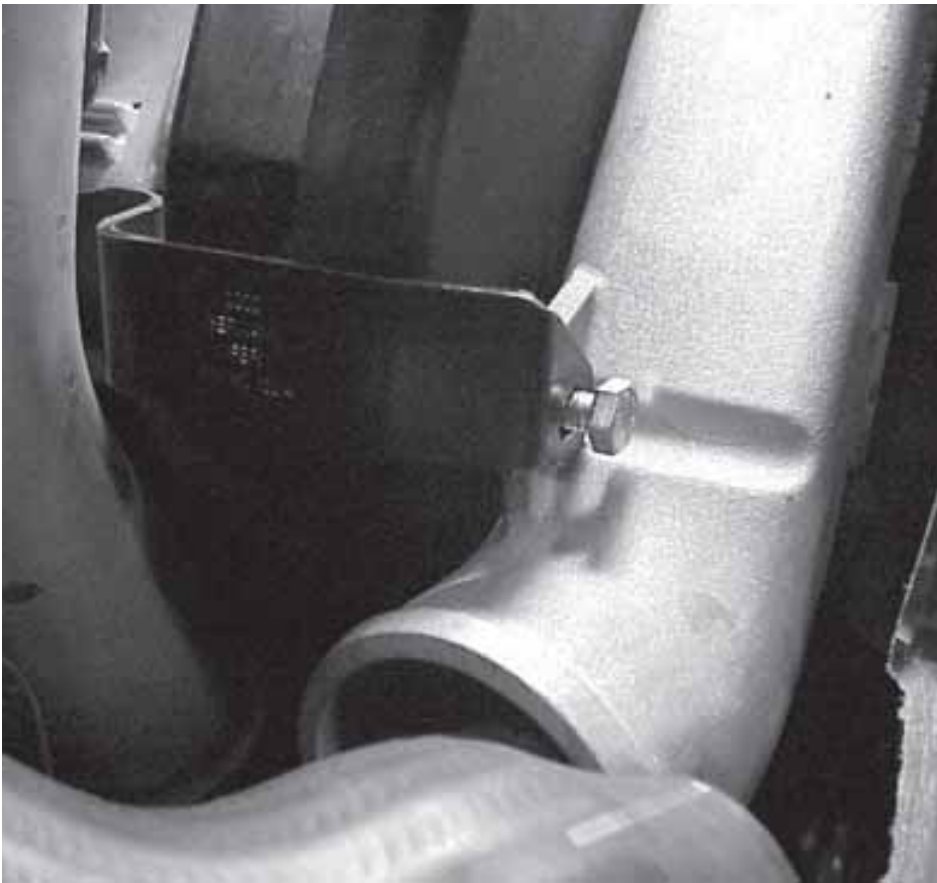
TOOL NEEDED: Flat Head Screw Driver

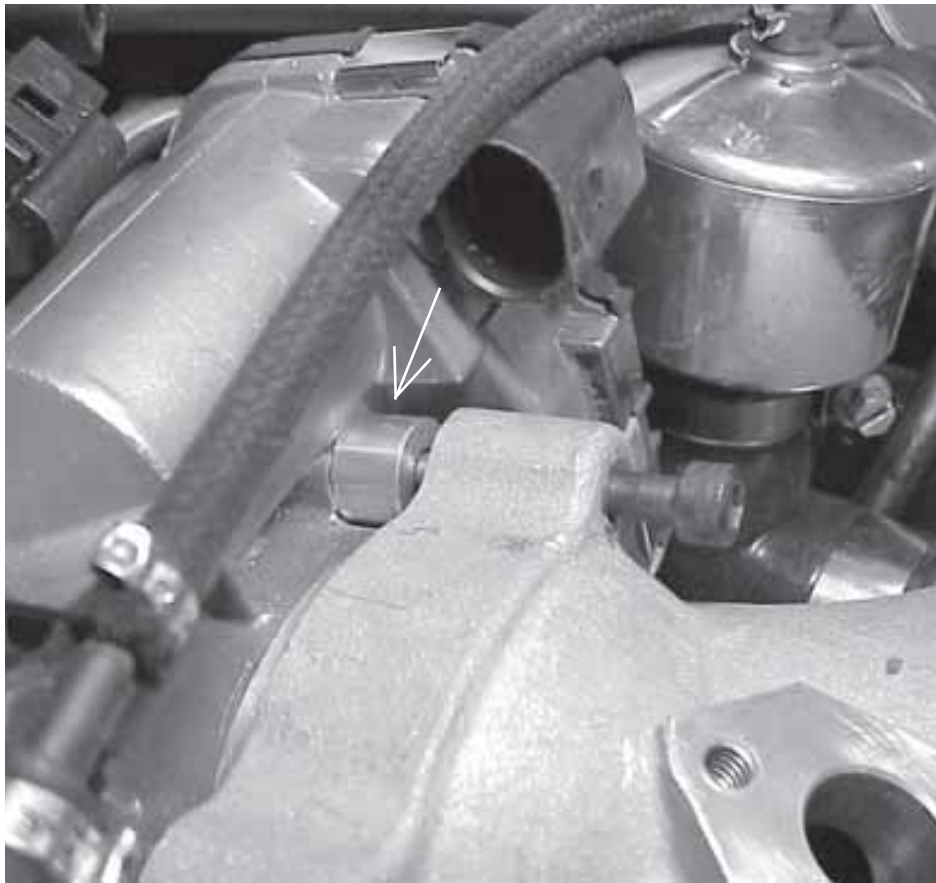




37. Align Bi-Pipe left and right mounting holes with mounting points. Note: Be sure left side bracket is over Bi-Pipe.

38. Start mounting bolts on left and right but DO NOT tighten.



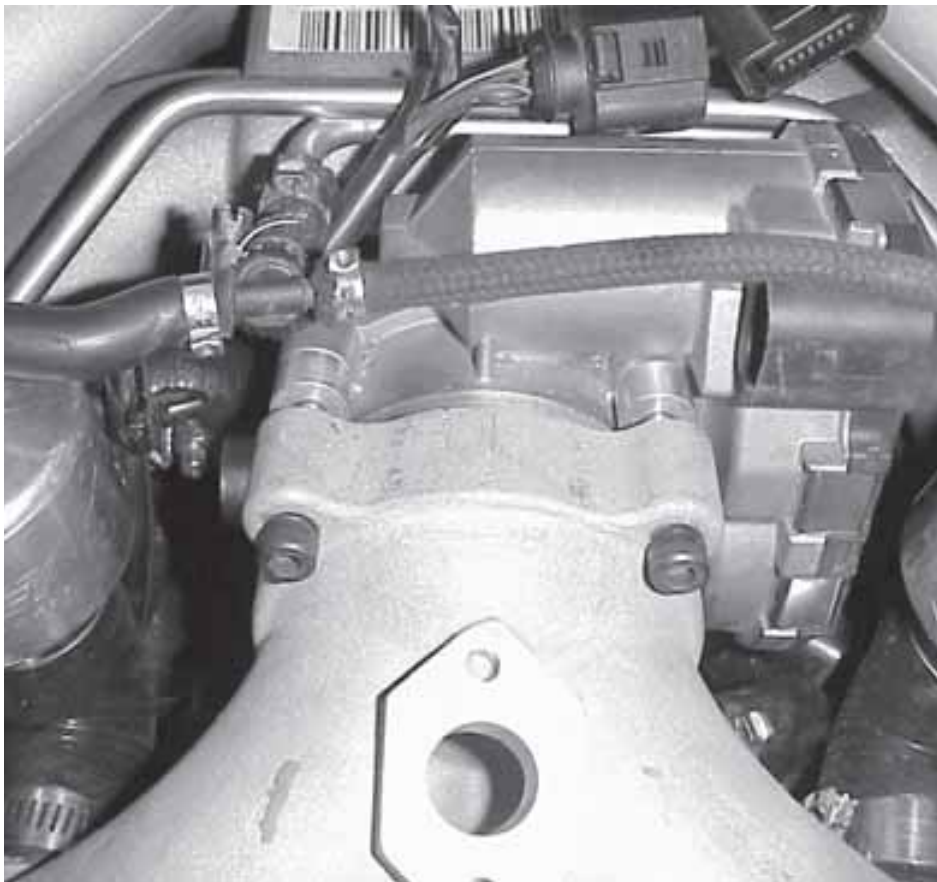


39. Install round spacer on top right side between throttle body and Bi-Pipe with 80mm bolt. Note: hand start threads but DO NOT tighten.

TOOLS NEEDED: 3/8" Ratchet Drive and 5mm Allen Head Socket



40. Install round spacer on top left side between throttle body and Bi-Pipe with 80mm bolt. Note: hand start threads but DO NOT tighten.



TOOLS NEEDED: 3/8" Ratchet Drive and 5mm
Allen Head Socket





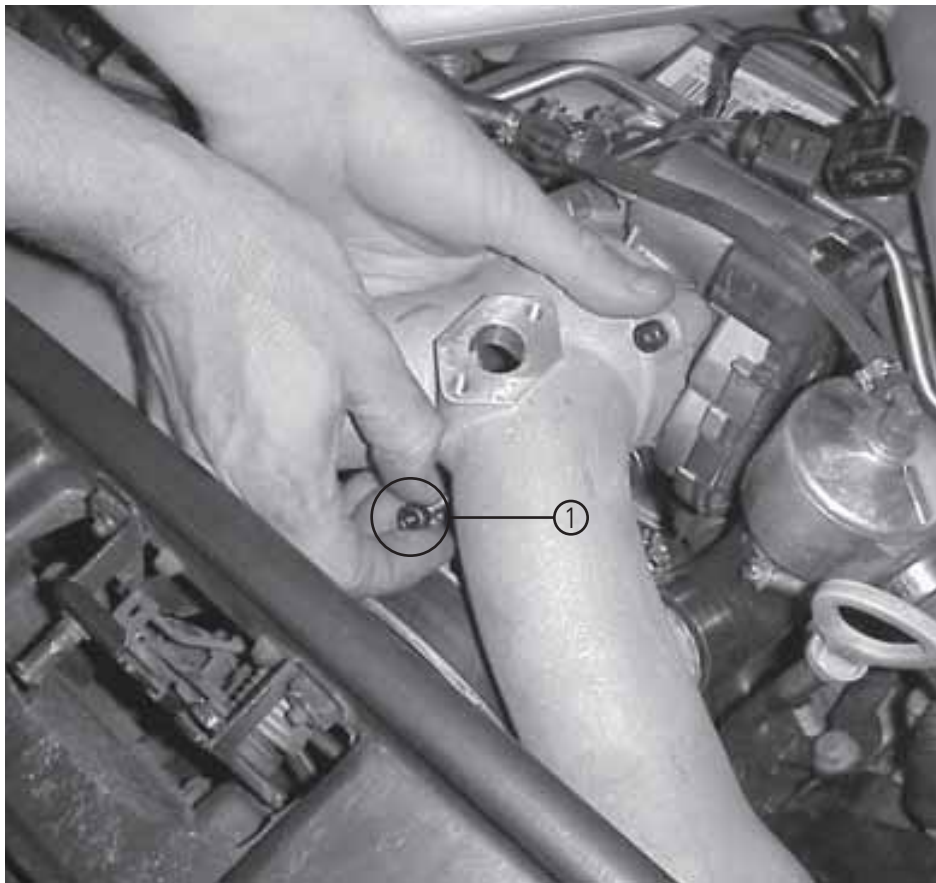
41. Push Bi-Pipe onto throttle body.

42. Hand tighten top two bolts. Will completely tighten later.



TOOLS NEEDED: 3/8" Ratchet Drive and 5mm
Allen Head Socket





43. Install 30mm adapter to Bi-Pipe bolt and tighten completely. Note: Use one hand to guide the bolt into the blind hole and the other to insert the bolt.

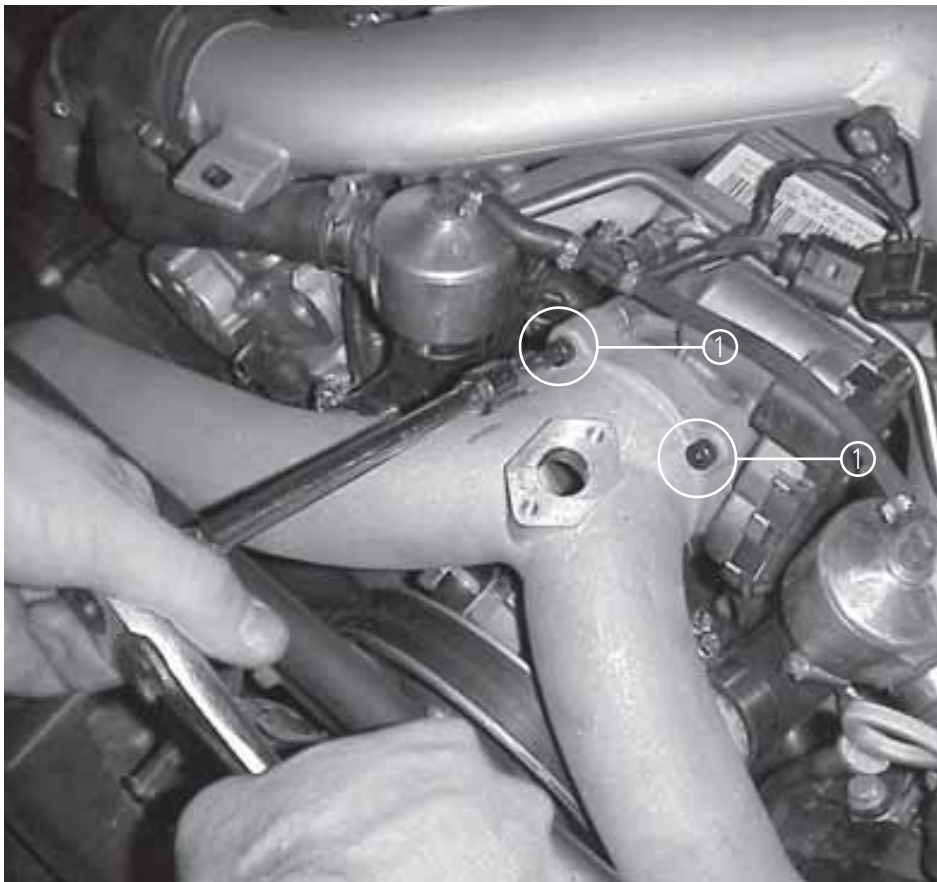


TORQUE SPECIFICATIONS: ① *7ft/lbs*

TOOLS NEEDED: 3/8" Ratchet Drive and 5mm
Allen Head Socket and
Universal Joint



44. Completely tighten top bolts.



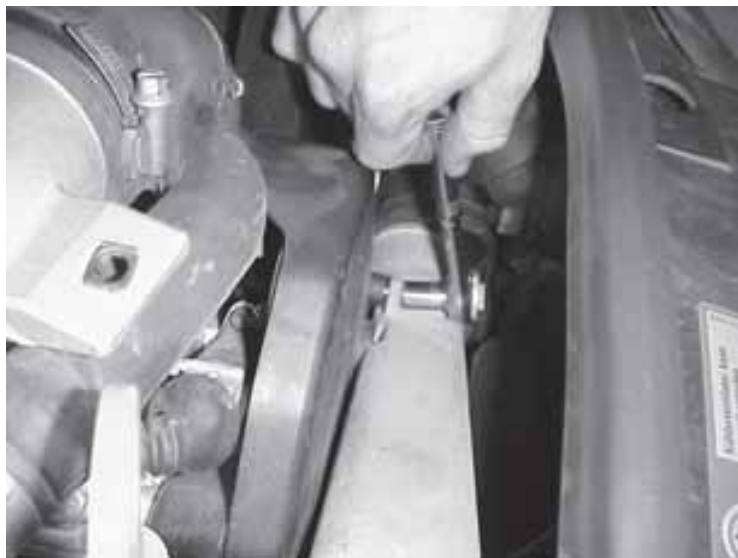
TORQUE SPECIFICATIONS: ① 7ft/lbs

TOOLS NEEDED: 3/8" Ratchet Drive, 7"
Extension, and 5mm
Allen Head Socket





45. Completely tighten lower left and right Bi-Pipe mounting bolts.



46. Reattach left and right intercooler hoses.





47. Reinstall head lamp. Installation is opposite of removal.

48. Remove boost sensor from original throttle body boot.



TOOL NEEDED: Flat Head Screw Driver





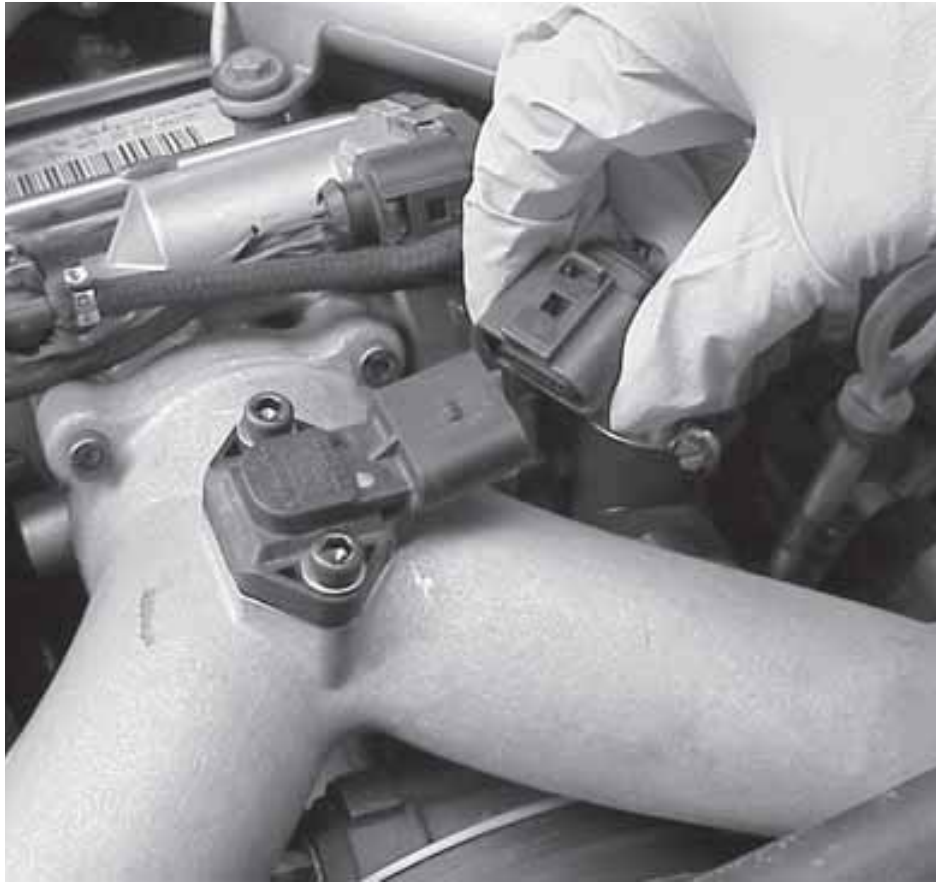
49. Install small o-ring onto boost sensor. It is recommended to use an o-ring assembly lube to ensure that the o-ring seats properly.

50. Using two 16mm boost sensor bolts and 2-6mm flat washers, install boost sensor with connector facing driver's side.



TOOLS NEEDED: 3/8" Ratchet Drive and 5mm
Allen Head Socket





51. Reinstall boost sensor plug.

52. Reinstall throttle body cover.



TOOL NEEDED: Flat Head Screw Driver





53. Reinstall fresh air ducting. Slide intake end in first followed by the air-box end. Secure with two phillips head screws.



TOOL NEEDED: Phillips Head Screw Driver



Congratulations, the installation is now complete! We hope you enjoy many miles of service from your new APR Bi-Pipe. If you ever have any questions, don't hesitate to contact your APR representative.



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