

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



Tools Needed

SSAUTOCHROME

<http://ssautochrome.com>

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.

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

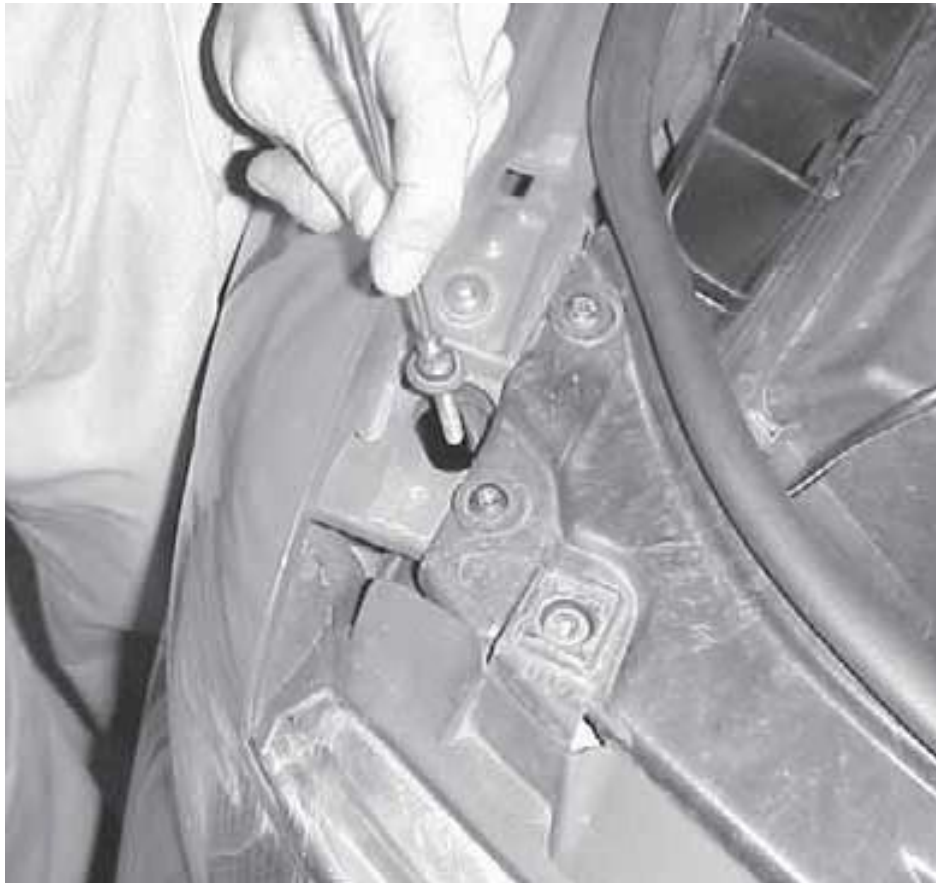


12. Loosen remaining head lamp bolt through hole in fender.



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





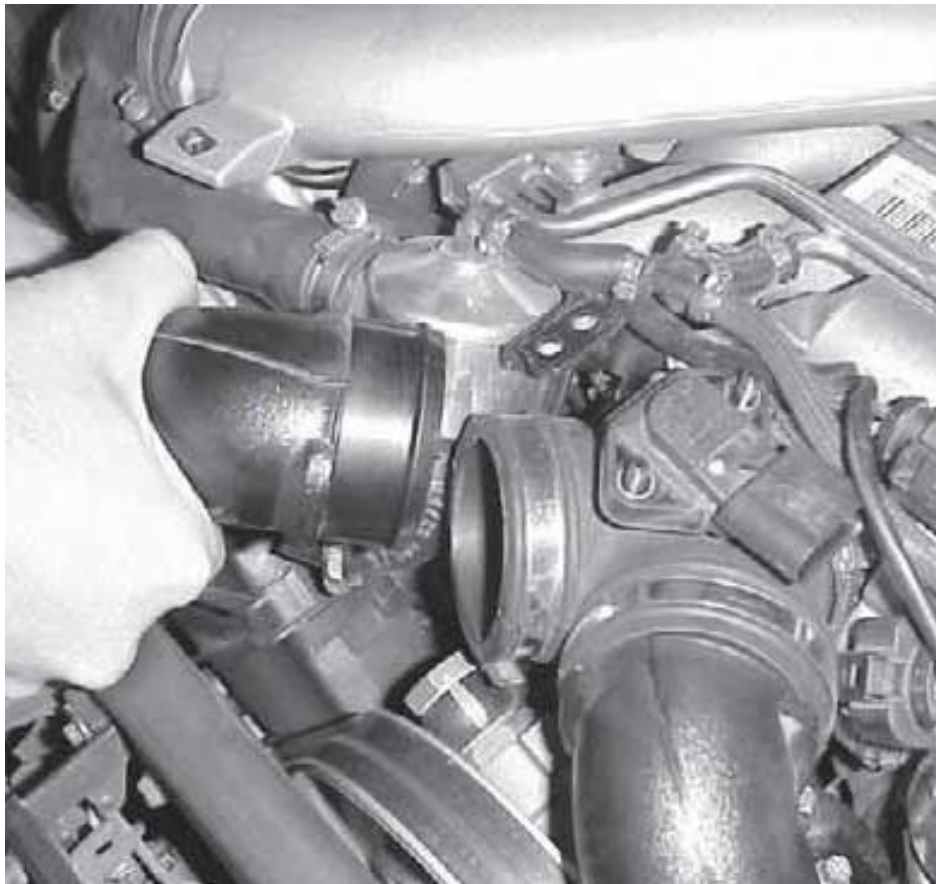
17. Remove mounting bolt on left side of passenger's side intake pipe.

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.





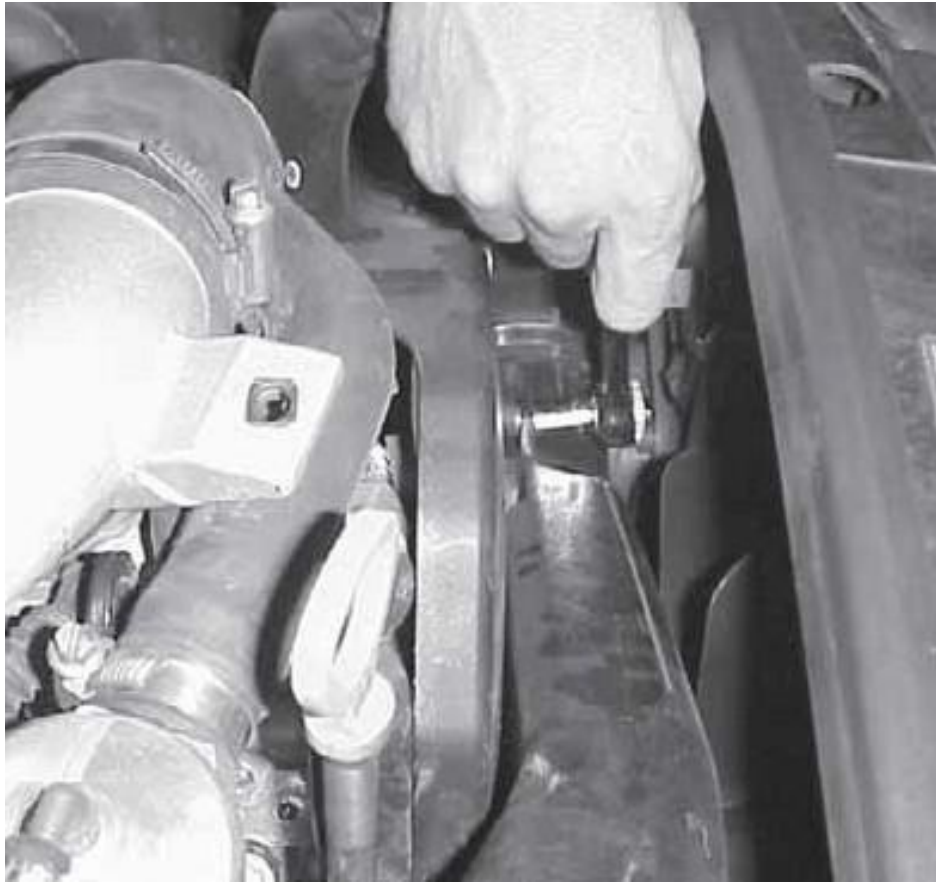
19. Remove the top end of the left intake pipe interfacing the throttle body boot first. Remove the opposite end next and then pull up.

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



TOOL NEEDED: Flat Head Screw Driver

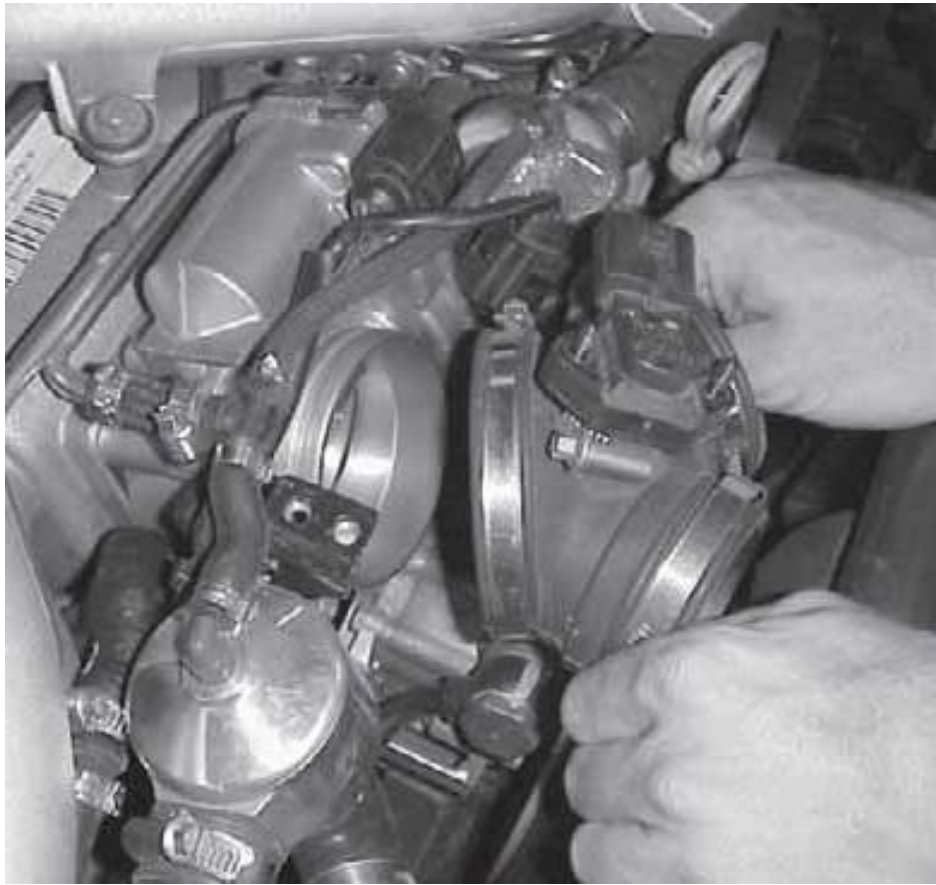




21. Remove right intake pipe mounting bolt.

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.

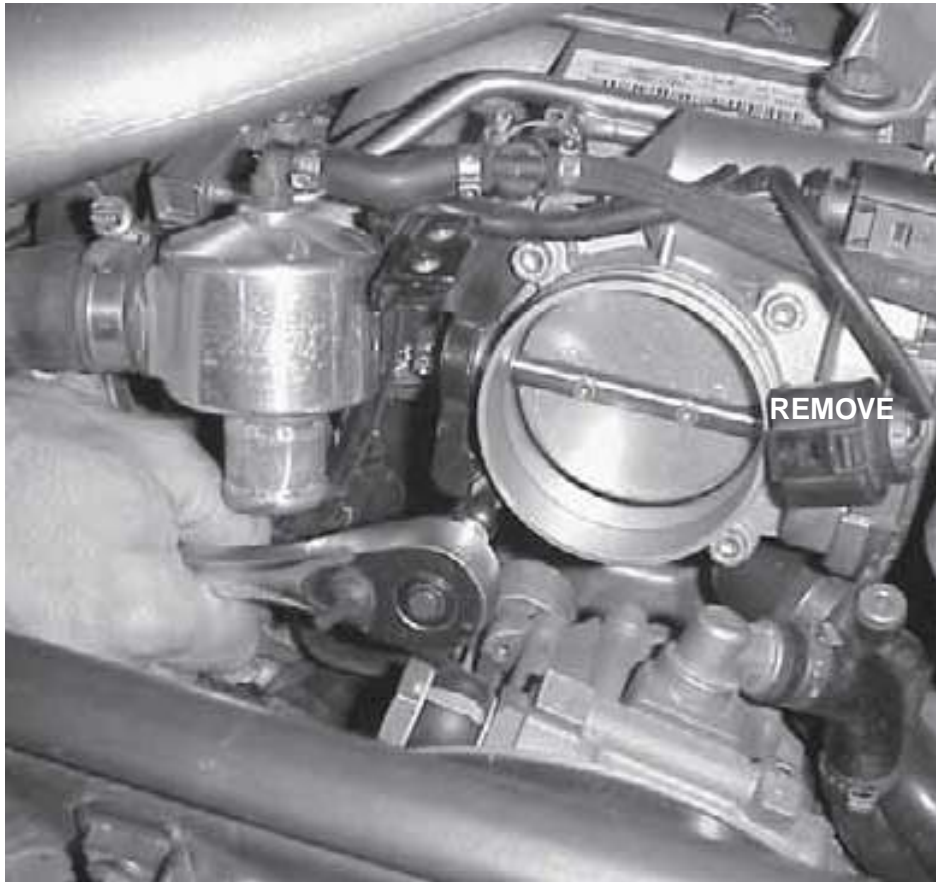




23. Remove throttle body boot by gently pulling out. Note: Will need this assembly later in the installation.

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.



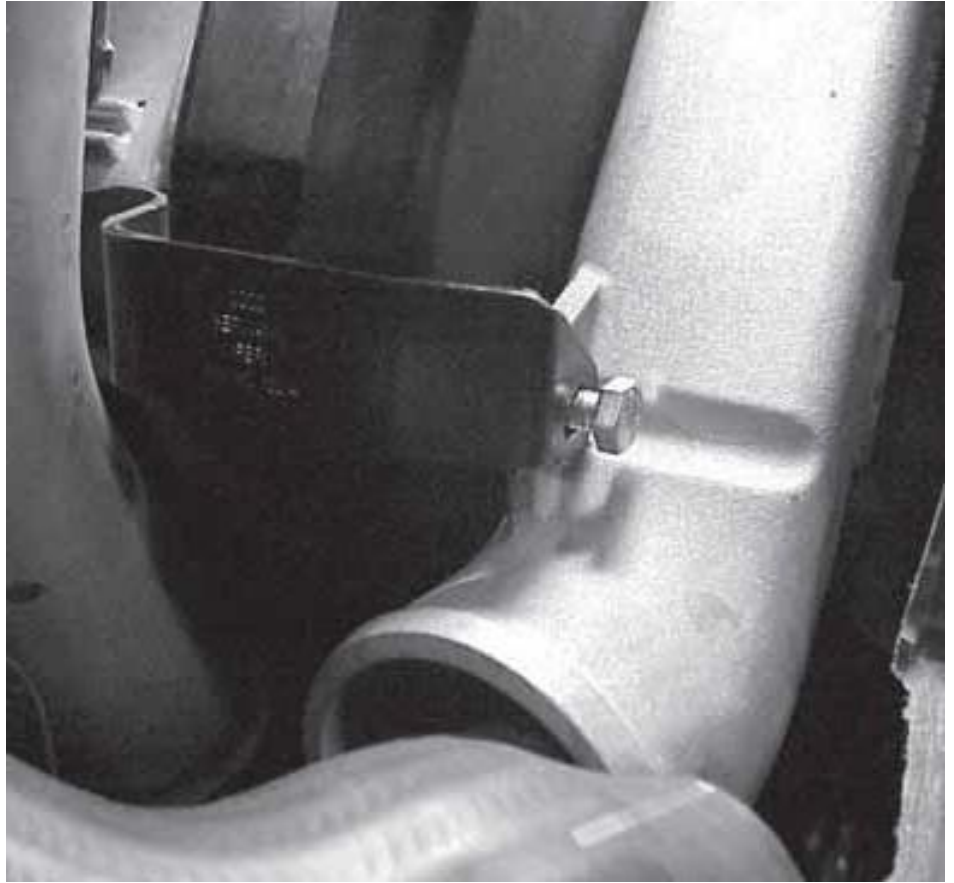
TOOL NEEDED: Flat Head Screw Driver

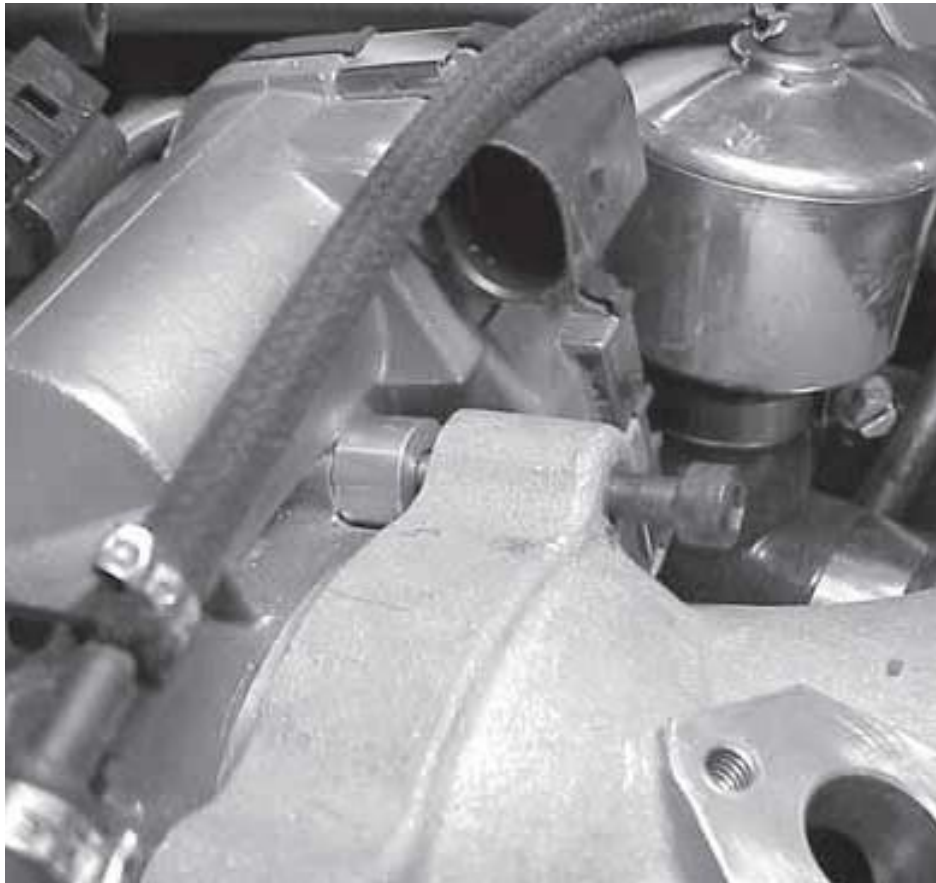




37. Align Bi-Pipe left and right mounting holes with mounting points. Note: Be sure left side bracket is over Bi-Pipe.

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





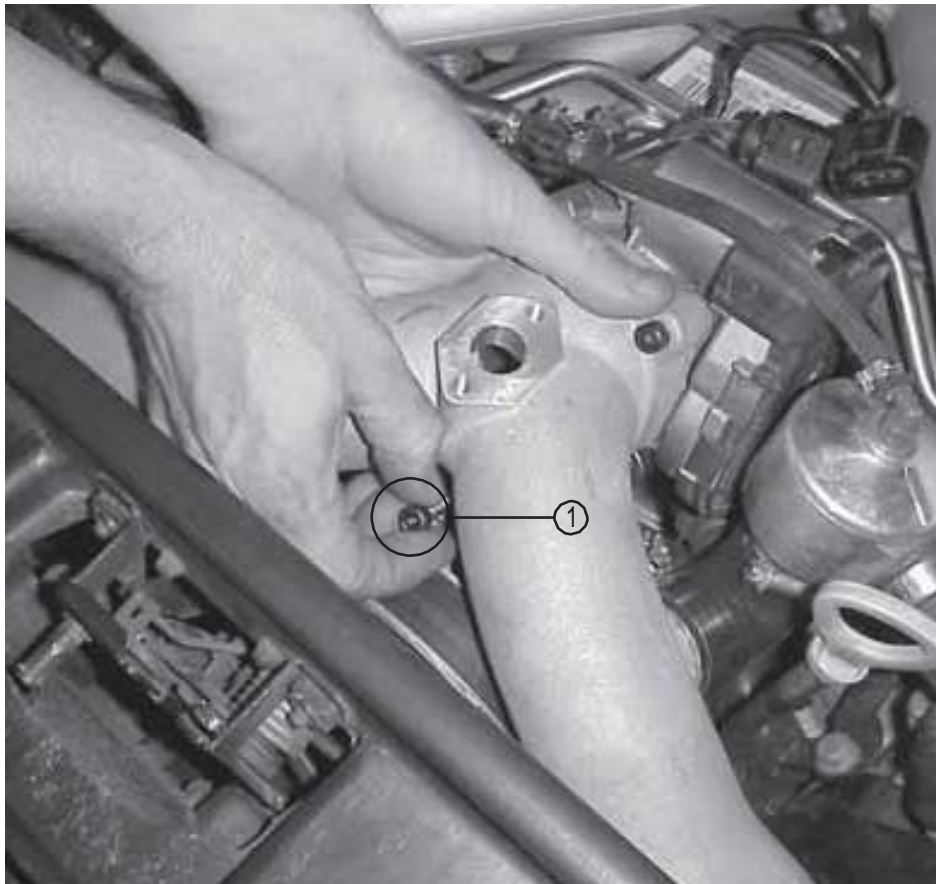
41. Push Bi-Pipe onto throttle body.

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

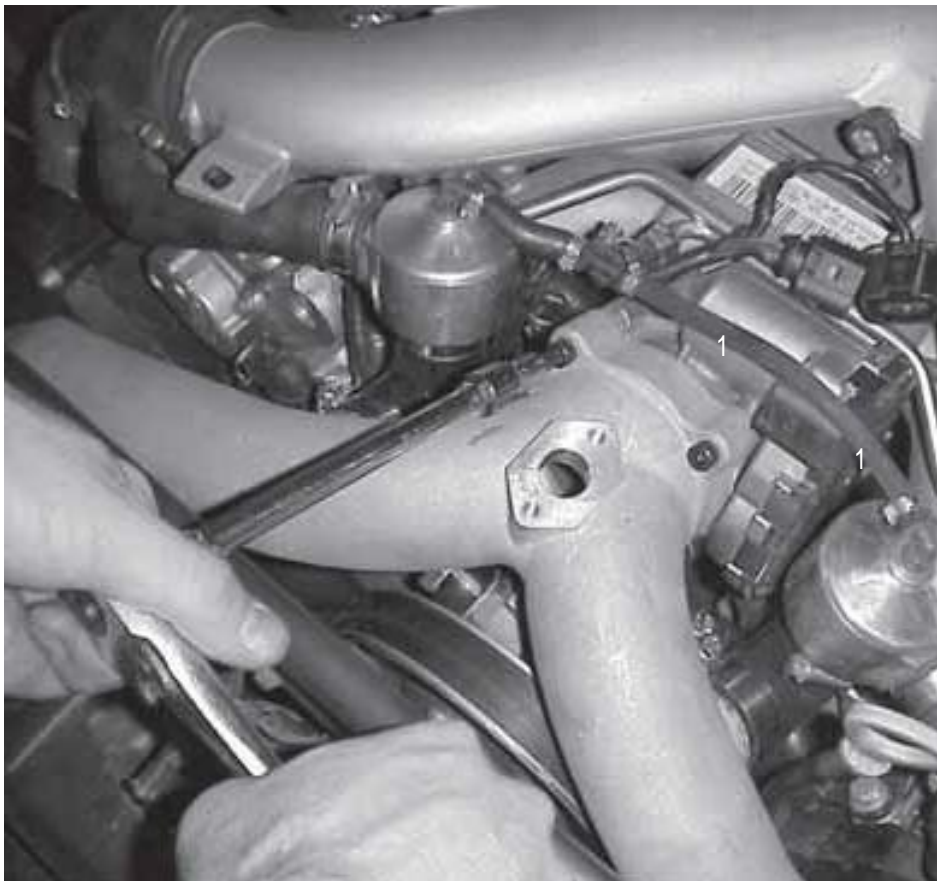
TOOLS NEEDED: 3/8" Ratchet Drive and 5mm
Allen Head Socket and
Universal Joint



44. Completely tighten top bolts.

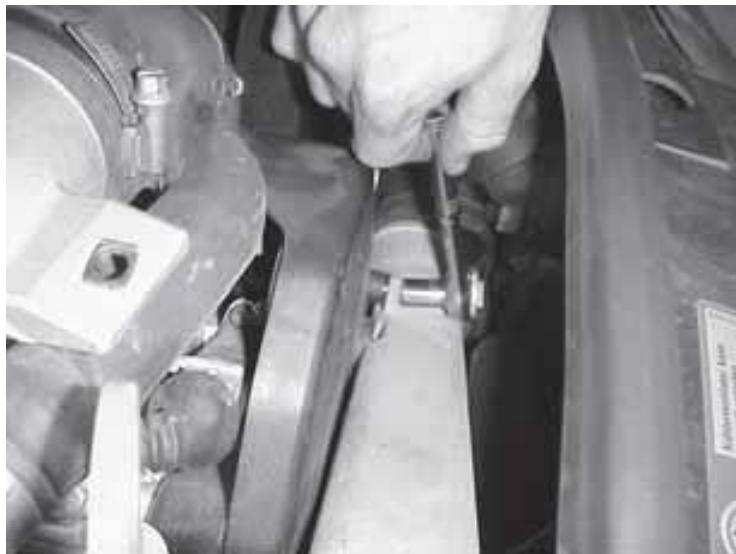
TORQUE SPECIFICATIONS: ① 7ft/lbs

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





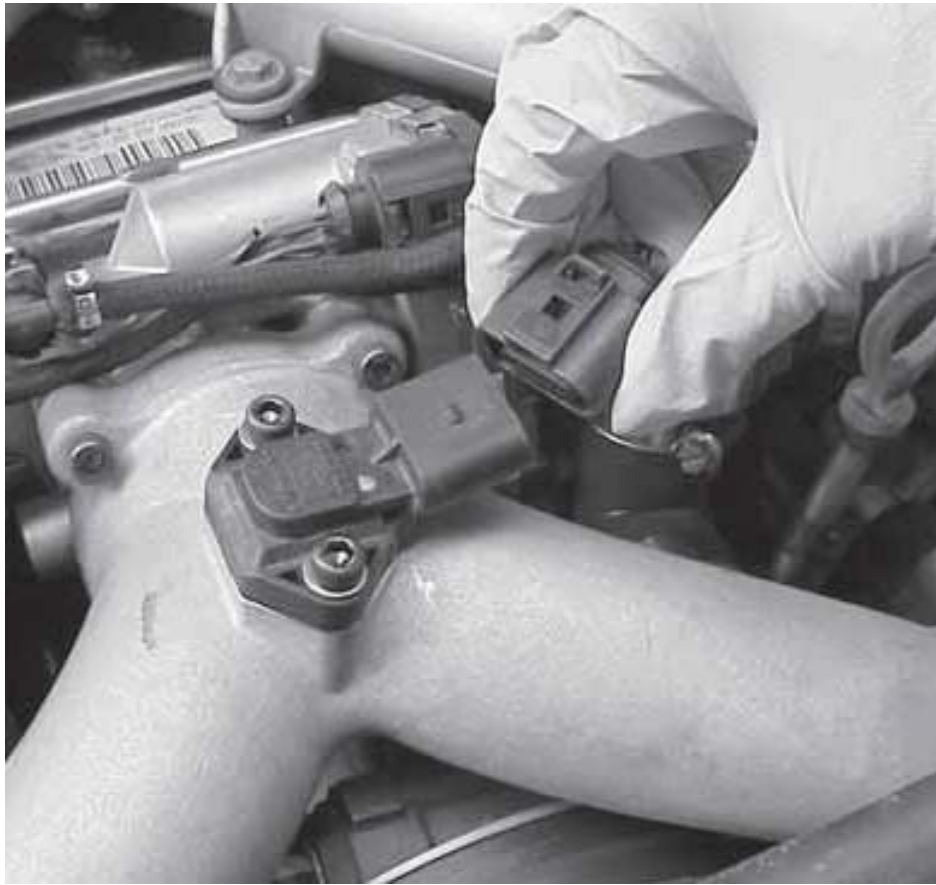
49. Install small o-ring onto boost sensor. It is recommended to use an o-ring assembly lube to ensure that the o-ring seats properly.

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

