

HPA Motorsports

Installation Instructions for
part # HVA 303 & HVA 305

PLATINUM SERIES
**SHORT THROW
SHIFT KIT**



**Congratulations on your purchase of an
Adjustable Short Throw Shifter from HPA Motorsports!**

This shifter was manufactured in Canada from an all new dedicated casting. All components were CNC Machined to exact specifications and BCZ (zinc) plated for durability and appearance.

HPA Short Throw shifters are Two-Position Adjustable, giving you the power to choose the length of throw that is best for you.

HVA-303 - fits vehicles equipped with the 02J Transmission including:

Audi TT 5-speed FWD, 1999.5 and up Mk4 Golf/Jetta/Beetle 5-speed

HVA-305 - fits vehicles equipped with the 02M Transmission including:

Audi A3/S3 Quattro 6-speed, Audi TT Quattro 5/6-speed, Mk4 R32, 6-speed Beetle,

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Tools required:

- Ratchet with extension
- 13mm socket
- 10mm socket
- Philips screwdriver
- Wrench
- Pliers



1. Unplug the MAF Sensor

Step1: Remove the factory airbox to access the shift linkage

There are minor differences in this section for each model. If vehicle is equipped with an aftermarket airbox or cold air intake, you may already have easy access to the shifter and could skip this step.



2. Using pliers or screwdriver, as needed, undo the clamp connecting the airbox.

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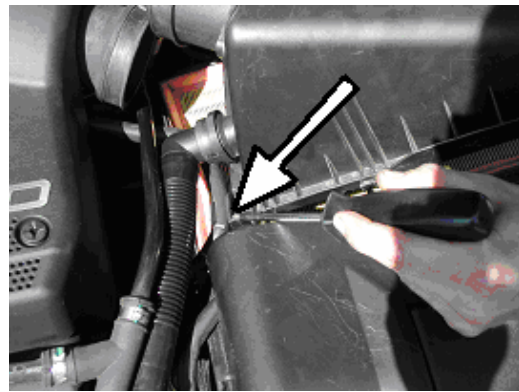
There are minor differences in this section for each model. If vehicle is equipped with an aftermarket airbox or cold air intake, you may already have easy access to the shifter and could skip this step.



2. Using pliers or screwdriver, as needed, undo the clamp connecting the airbox.



3. Loosen the two screws on back edge of upper airbox until threads are fully disengaged



4. Unclip coolant hose from lower front corner of upper airbox (not applicable for all models.)



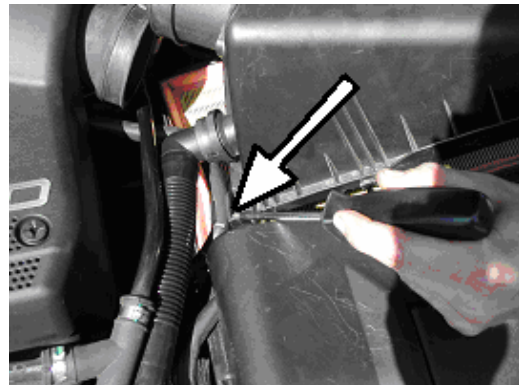
5. Disconnect air hose from engine side of upper air box - squeeze plastic retaining ring to disconnect (not applicable for all models.)



6. Slowly lift off upper air box and move out of the way



3. Loosen the two screws on back edge of upper airbox until threads are fully disengaged



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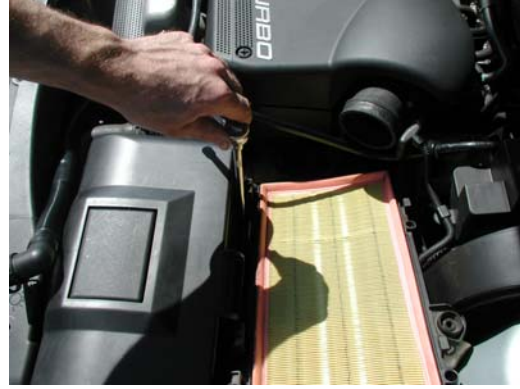
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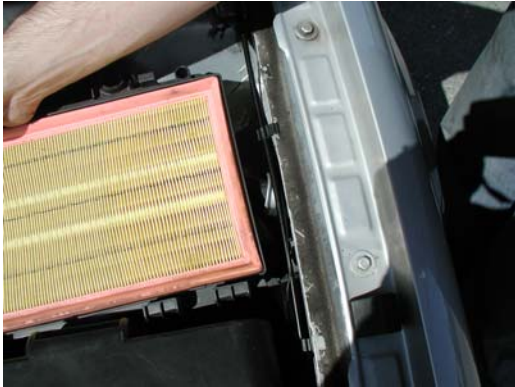
6. Slowly lift off upper air box and move out of the way



7. Remove bolt at back of lower airbox



8. Remove bolt at front of lower airbox



9. Tip the engine side of the lower airbox up, and slide it towards the engine to remove it from the mount which is located under the fender. Put aside.



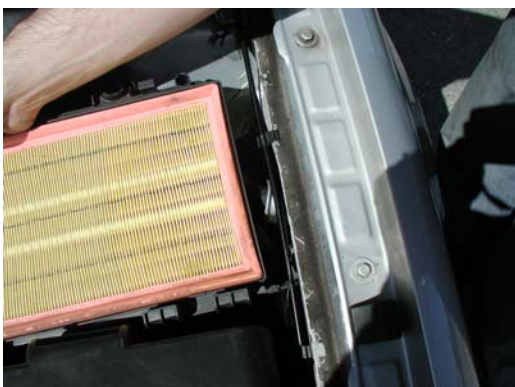
You will now be able to access the shift linkage



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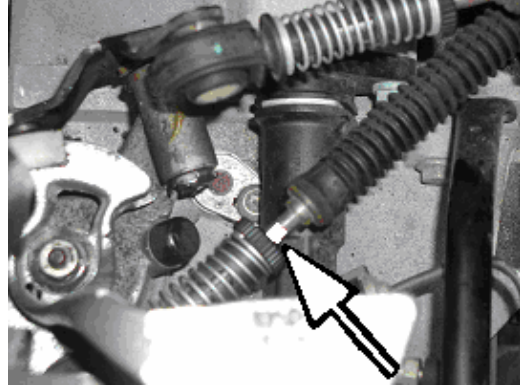
You will now be able to access the shift linkage

Step 2: Remove the factory shifter as follows

(02J 5speed with ball-style connector)



2. Hold the shifter steady with one hand, and use your other hand to compress the spring on the cable end to disengage it from the shifter cable.



1. Mark the threaded adjusting end of shifter cable (where it meets the cable end) with paint so it can be reconnected in the correct position.



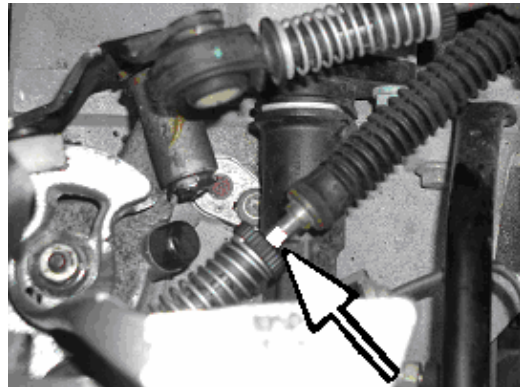
3. Rotate the shifter clockwise and slide the shifter cable from the cable end.

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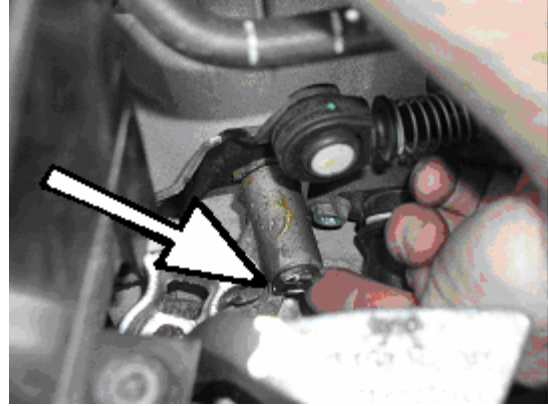
3. Rotate the shifter clockwise and slide the shifter cable from the cable end.



4. Using 13mm socket, remove the nut that is securing the shifter.



HINT: lift up on the locking lever in the center of the clip and then slide out.



5. Remove the clip from the side-to-side linkage



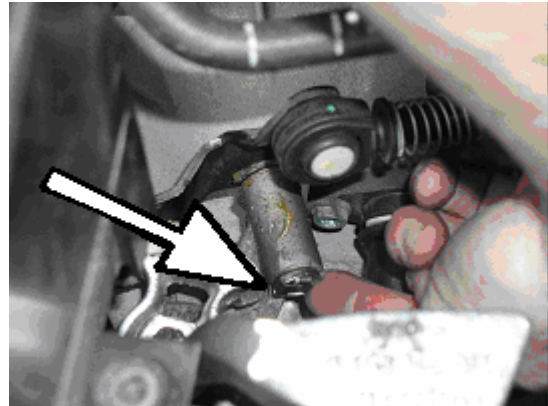
6. Push side-to-side linkage towards engine to disengage it from the shifter.



4. Using 13mm socket, remove the nut that is securing the shifter.



HINT: lift up on the locking lever in the center of the clip and then slide out.



5. Remove the clip from the side-to-side linkage



6. Push side-to-side linkage towards engine to disengage it from the shifter.



7. Slide the shifter off of the spline by grasping the counter weight of the shifter and wiggling it back and forth while pulling straight up.



8. With the shifter in your hand, carefully pry the cable end from the ball - do NOT pull on the spring end.



You are now ready to install your new HPA Short Shifter

**Continue to
Installation
Instructions**



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Step 2: Remove the factory shifter as follows

(02J 5-speed with pin-style connector & 02M 6-speed with pin-style connector)



1. Using 13mm socket, remove the nut that is securing the shifter.



2. Remove clips from shifter linkages and move cable to the side.



HINT: lift up on the locking lever in the center of the clip and then slide out.

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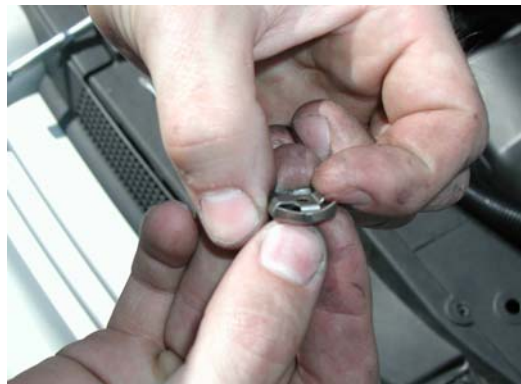
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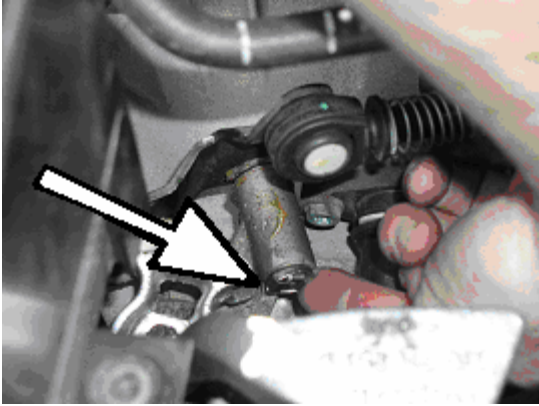
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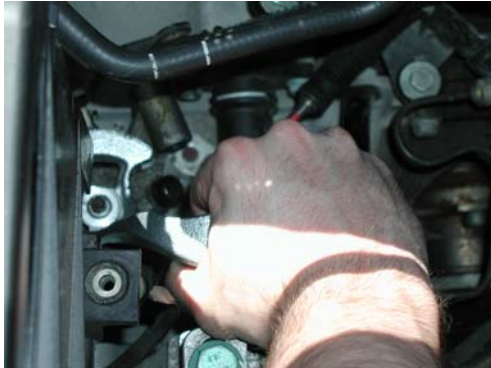
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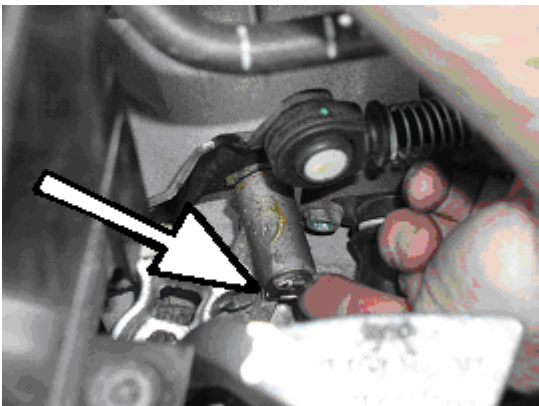
4. Push side-to-side linkage towards fender to disengage it from the shifter.



5. Slide the shifter off of the spline by grasping the counter weight of the shifter and wiggling it back and forth while pulling straight up.



You are now ready to install your new HPA Short Shifter



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Step 3: Install the HPA Short Shifter as follows:



NOTE: Using the hole closest to the edge will give you a 20% reduction in shift throw. The hole closest to the spline will give you a 40% reduction on 02J models and 35% reduction on 02M models.

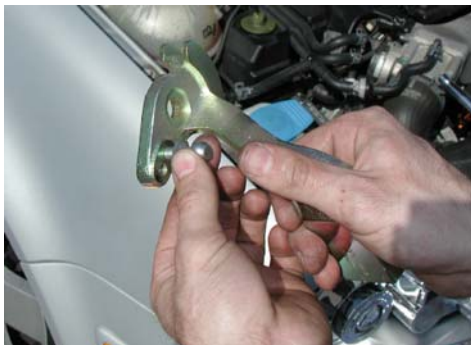


1. Screw the ball or pin into the desired position on the HPA Short Shifter and tighten with wrench. (20% position shown)



2. Put a bit of grease in the groove of the HPA Short Shifter.

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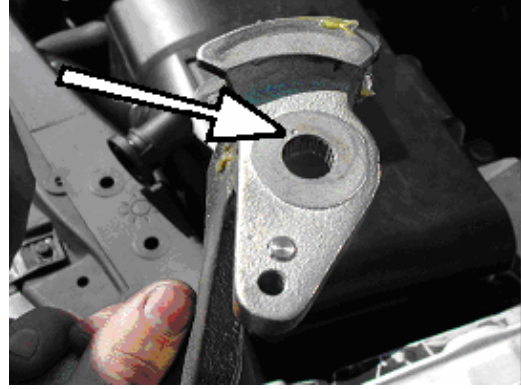
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VERY IMPORTANT NOTE:

Before installing the shifter, the spline on the shifter must be lined up precisely with the spline on the selector shaft. There is an index tooth on both splines to ensure it is lined up correctly. The index tooth on the HPA Short Shifter is indicated by a small dimple machined into the shifter.



The index tooth on the HPA Short Shifter is indicated by a small dimple machined into the bottom.



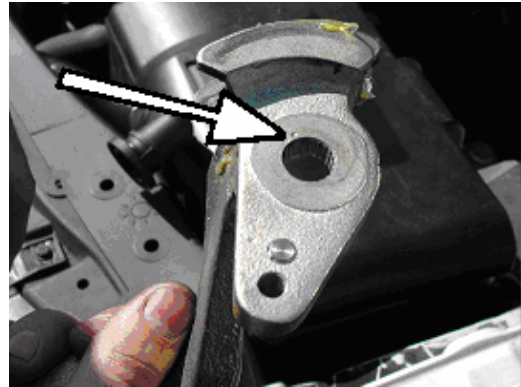
The index tooth on the male spline has a WIDE tooth.



3. Carefully line up the index teeth of the splines and slide the HPA Short Shifter into place. This requires very little force if it is lined up properly.

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4. Re-install nut to hold shifter firmly in place.
Tighten with 13mm socket.



6. Slide the side-to-side linkage into place so it engages with the groove on the HPA Short Shifter

5. Re-attach the cable:

Ball Style:

- snap the cable end onto the ball.
- Pull back the spring on the cable end and reinsert the shifter cable. Carefully line up the paint mark to ensure proper adjustment, then release spring to lock into place.

Pin Style:

- re-clip the cable end onto the pin.

7. Reinstall the clip on the side-to-side linkage.

Installation is now complete

Go through the gears to ensure all gears engage properly before reinstalling the airbox.

(Installation of airbox is the reverse of removal)
If any difficulty, refer to the VW/Audi procedure to adjust the cables.



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