



EUROCODE

Meisterwerk Adjustable Short Throw Shifter Installation Guide



List of Parts Included

Meisterwerk Adjustable Short Throw Shifter
Main Body with Adjustable Shaft
Locking Collar
Lower Linkage Assembly
Bearing Race Assembly
Sealed Bearing Assembly
Retaining Clips (Qty 2)
Hose Clamp
Radio Removal Keys (Qty 2)
Latex Gloves (Qty 2)

List of Required Tools

Small flat tip screwdriver
T-45 Torx socket
10mm socket ¼" drive preferred
8mm socket or nut driver ¼" drive preferred
3mm hex socket (allen) ¼" drive preferred
¼" drive ratchet with extension
T-45 Torx socket ¼" drive preferred
Sharpie or similar marking pen
Torque wrench (inch pounds)
Rubber or plastic handle mallet
Side cutters (dykes)
Blue painters tape

Read Manual Thoroughly Before Installation! If you do not have your factory shifter, you will need to purchase the following parts:

OEM Reverse Spring 8KO-711-197 Qty 1

OEM Clear Bushing 8KO-711-217 Qty 1

OEM White Plastic Clip 8KO-711-609 Qty 1

Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

STEP

1

Raise vehicle to gain access underneath (ramps, jack stand lift etc.) Remove heat shield (pictured below) with a 10mm wrench or socket (there are six fasteners). Carefully remove heat shield by gently pulling it to one side (it may bend but this is OK). Remove the bolt that attaches the factory shift linkage to the factory shifter with two 10mm wrenches or a ratchet with 10mm socket.



STEP

2

Move to the interior of the vehicle. We recommend taping off all interior trim pieces to avoid damage. Remove MMI Control Head with (2) radio keys provided. Keys are engraved on top with the orientation they should be facing (top left, top right). With the MMI control head removed, pull Climate Control Unit away from dash. (lower left photo) Replace MMI Control Head. To remove radio keys from MMI control head, depress as shown in lower right photo.



STEP

3

Unplug Climate Control Unit. Gently pull away the clip that attached the harness wire to the back of the CCU. You will need to gently push up the red safety tabs to unlock them and compress the black tabs that lock the plugs in place (see arrows). With the black tab depressed, pull plug away from Climate Control Unit. Place Climate Control Unit in a safe location.



STEP

4

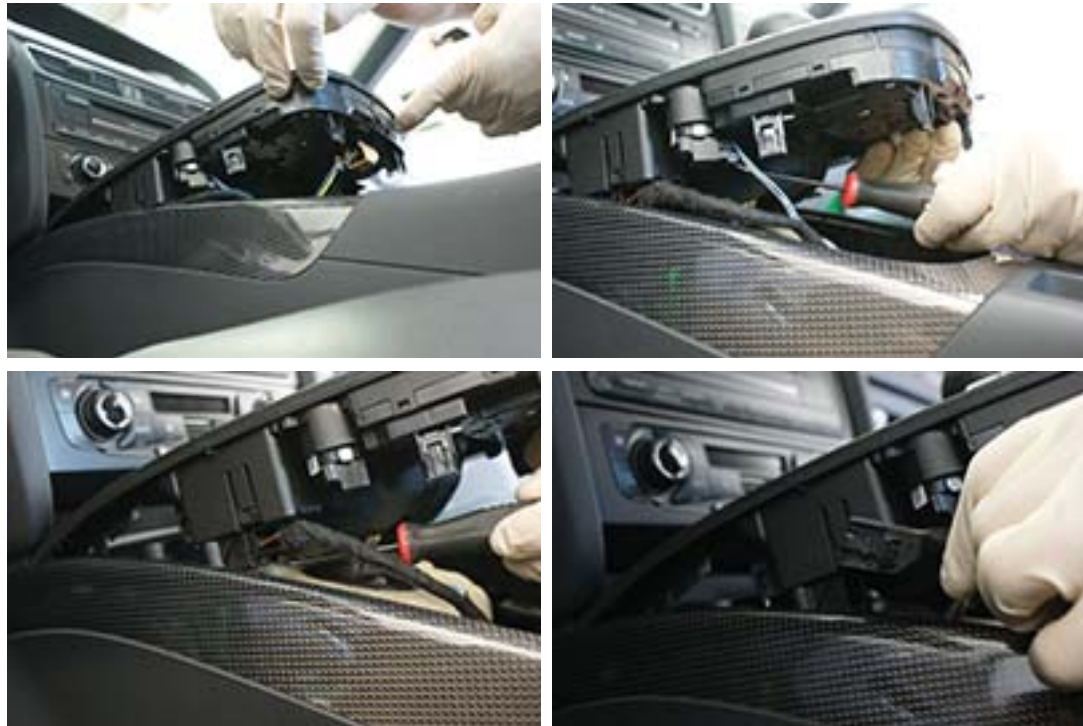
Remove shift boot and shift knob. With a panel removal tool or something that will not damage boot, gently pry away the shift boot from the shifter surround. Lift boot up to expose the single use clamp that attaches the shift knob to the shaft. Cut away the clamp with a pair of side cutters or peel the clamp open. Work carefully to avoid any damage to shift boot.



STEP

5

Pull up very gently on the shifter surround to separate surround from center console. Unplug all connectors from the shifter surround and remove from vehicle. Each of the lugs have a tab that you will need to depress, a small screwdriver may come in handy to depress the tabs. Take caution not to pull on the wiring harness and damage it. Place shifter surround in a safe area.



STEP

6

Unbolt ashtray, it is held in place with (2) hex head screws. Use an 8mm nut driver or socket with an extension to remove bolts. Lift straight up on ashtray to expose the plug for the wiring harness. Gently peel back the foam cover over the plug and unplug it. Place ashtray in a safe place.



STEP

7

Remove foam sound insulation and rubber weather seal from the shifter base. The rubber weather seal is held in place with two small tabs towards the back. The lower left photo shows you where to pry. Gently pry tabs away from shifter base as shown in the upper right photo and lift up and to the rear of the vehicle as shown in the lower right photo.



STEP

8

Remove OEM shifter assembly from car by gently pulling up on it until the ball joint pops out of the plastic race. Be careful not to pull too hard it just takes a gentle force to free it from the base. With shifter assembly removed, gently pry in on the clips that hold the plastic ball joint race into shifter surround. Lift up on plastic race and remove from vehicle.



STEP

9

Separate the OEM reverse spring assembly from the factory shifter. There is a white retaining clip that holds the spring in place, press up gently on the hook assembly to open it up. Once open remove the retaining clip, clear plastic support piece and the reverse spring from the OEM shifter. Retain these items as they will be transferred over to your Meisterwerk ASTS.



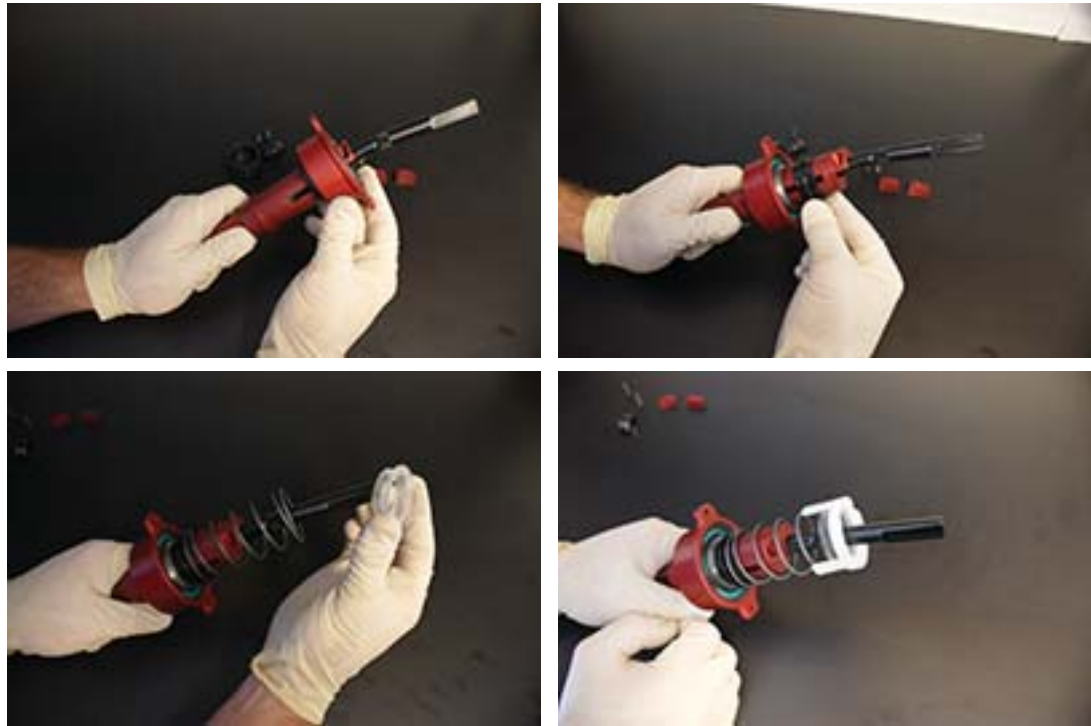
STEP 10

Prepare the Meisterwerk ASTS for installation. Remove the two socket cap screws and locking collar from the shifter with a 3mm allen wrench or hex socket. Remove the black shifter spring collar from shifter unit. Remove the retaining clips from the bearing assembly with a 3mm allen wrench or hex socket.



STEP 11

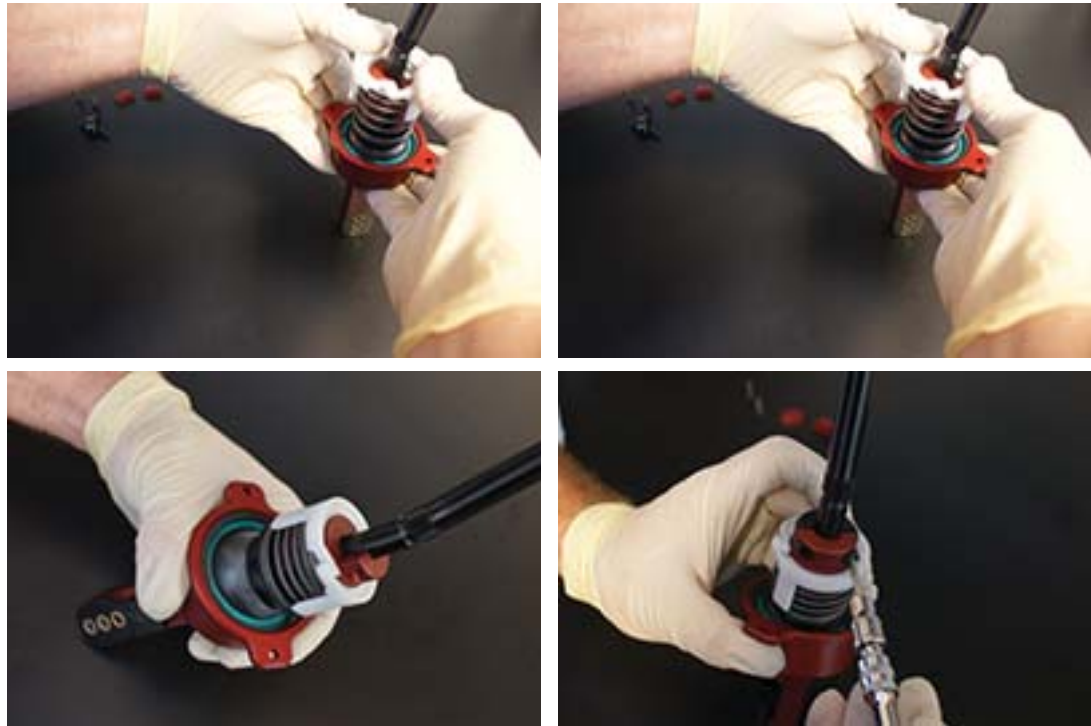
Assemble the Meisterwerk ASTS. Place the bearing housing on the shaft of the shifter, black bearing collar, reverse spring, clear plastic retainer and then the white retaining clip.



STEP

11_{cont.}

Press down on the white retaining clip and lock it into place. Replace the black locking collar and two socket cap screws (be sure to tighten evenly). Torque to 40 in/lb (do not over tighten).



STEP 12

Your Meisterwerk ASTS is now ready for installation into vehicle. Place shifter inside the shifter housing (as pictured) and lower until bearing retainer is touching the shifter housing. Line up the shifter so that the bearing retaining clips and bearing housing can be screwed together with the two socket cap screws removed in step 10.



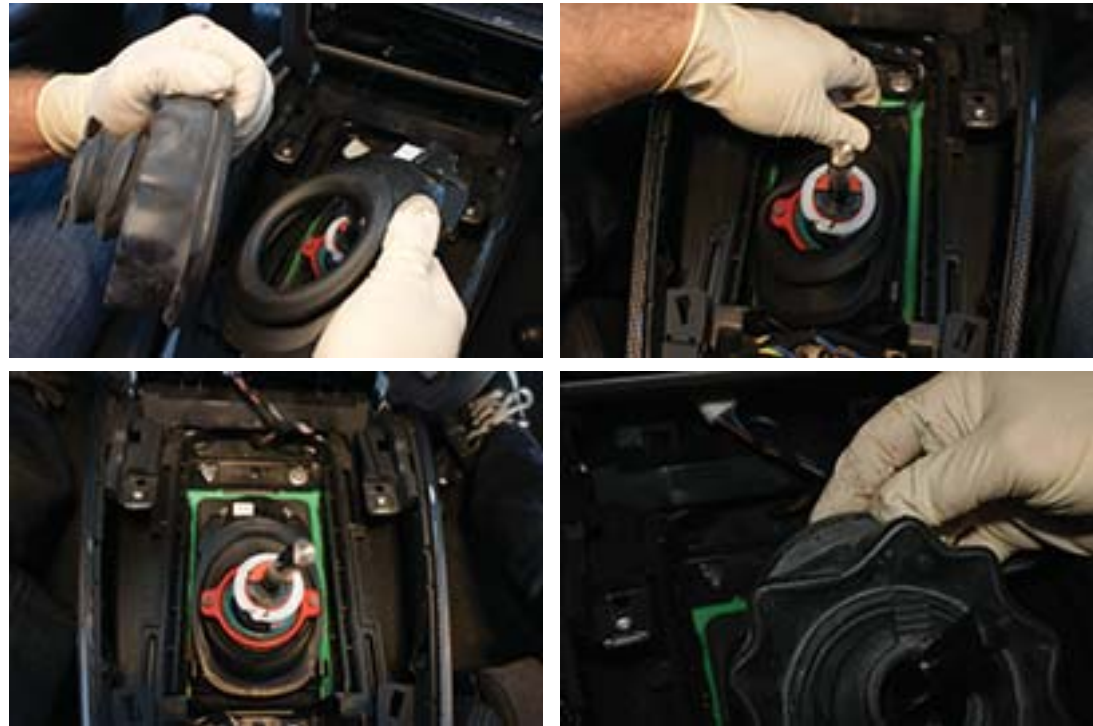
STEP 13

Gently tap the bearing housing until it is fully seated against the shifter base, tighten the two socket cap screws and torque to 40 in/lb. with a 3mm allen socket and torque wrench. (Do not over tighten as damage may occur.)



STEP 14

Replace the weather seal that was removed in step 7. It takes a bit of finesse to get it over the bearing retainer. It may be a bit easier to separate the rubber boot from the plastic base and put them on individually. Once you have placed the bottom portion on the shifter base. Place the top portion over the shifter and fit into place. It should look like the photo on the next page.



STEP 15

Move underneath the car and place a mark on the factory shift linkage assembly as shown. Loosen the locking bolt on the factory shift linkage with a T-45 Torx socket. Remove the factory shift linkage assembly from the shift linkage rod.



STEP 16

Place the Meisterwerk ASTS linkage onto the factory shift rod. There is a small notch that aligns with a notch on the factory shift rod. Slide linkage over the notch and rotate counter clockwise into place.



STEP 17

Attach the Meisterwerk ASTS linkage to the Meisterwerk ASTS assembly with the shoulder bolt provided. (Annex 4) The shoulder bolt has a 3mm hex head and an 8mm locking nut. Torque bolt to 65 in/lb. (do not over tighten).



STEP 18

With someone inside the vehicle, have them align the shifter (left and right) until it appears to be centered. From underneath the car align the Meisterwerk ASTS linkage with the mark that you placed on the factory shifter rod in step 15. Hand tighten the two socket cap screws in the Meisterwerk ASTS linkage just enough to keep the assembly from moving.



STEP 19

Temporarily replace the factory shifter surround back onto the center console and place the shift knob and boot assembly onto the shifter. Check to make sure the shifter is centered from left to right and front to back. If the shifter appears to be centered, go underneath the vehicle and torque the two cap screws 40 in/lb (do not over tighten). If the shifter needs adjustment front to back, go to step 20.



STEP 20

There are three adjustment points for the shifter.

- To adjust front to back, there is a Torx bolt (T-45) that can be viewed from the area where the ashtray is located. We recommend marking any settings prior to movement for a reference point. (Annex 1)
- To adjust left to right, there are two cap screws on the Meisterwerk ASTS linkage (make sure to tighten evenly and torque to 40 in/lb with a 3mm hex socket). (Annex 2)
- To adjust the height of the shaft, there are two cap screws on the retaining collar (make sure to tighten evenly and torque to 65 in/lb with a 3mm hex socket) We recommend marking any settings prior to movement for a reference point. (Annex 3)

STEP 21

At this point the shifter should be installed and working properly. Reinstallation of the factory trim pieces should be completed in the following order.

- Replace heat shield underneath vehicle (make sure you put it over the top of the drive shaft) the fasteners use a 10mm wrench or socket.
- Replace foam insulation around the shifter assembly.
- Replace shifter surround (ensure you plug everything back in).
- Replace shift knob (use clamp provided to secure the knob to the shaft).
- Replace Ashtray (make sure you plug back in) the screws use a 8mm socket or nut driver.
- Replace Climate Control Unit (make sure you plug back in).

Annex 1

Front to Back Adjustment



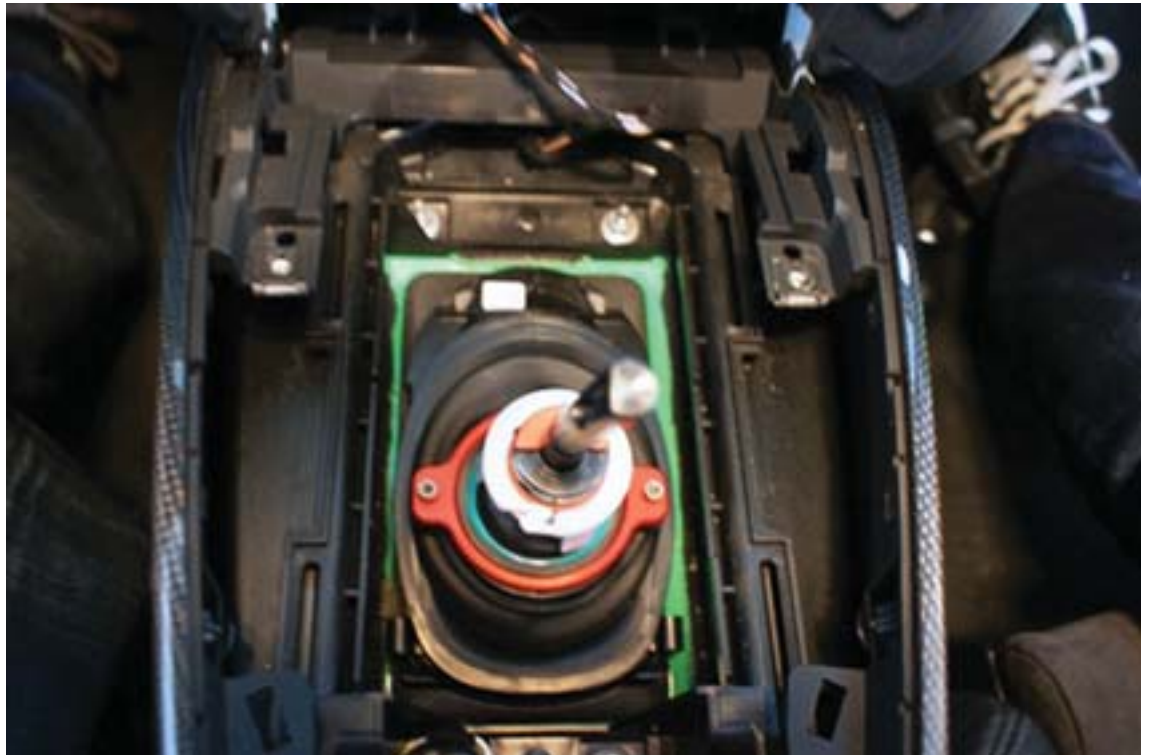
Annex 2

Left to Right Adjustment



Annex 3

Height Adjustment



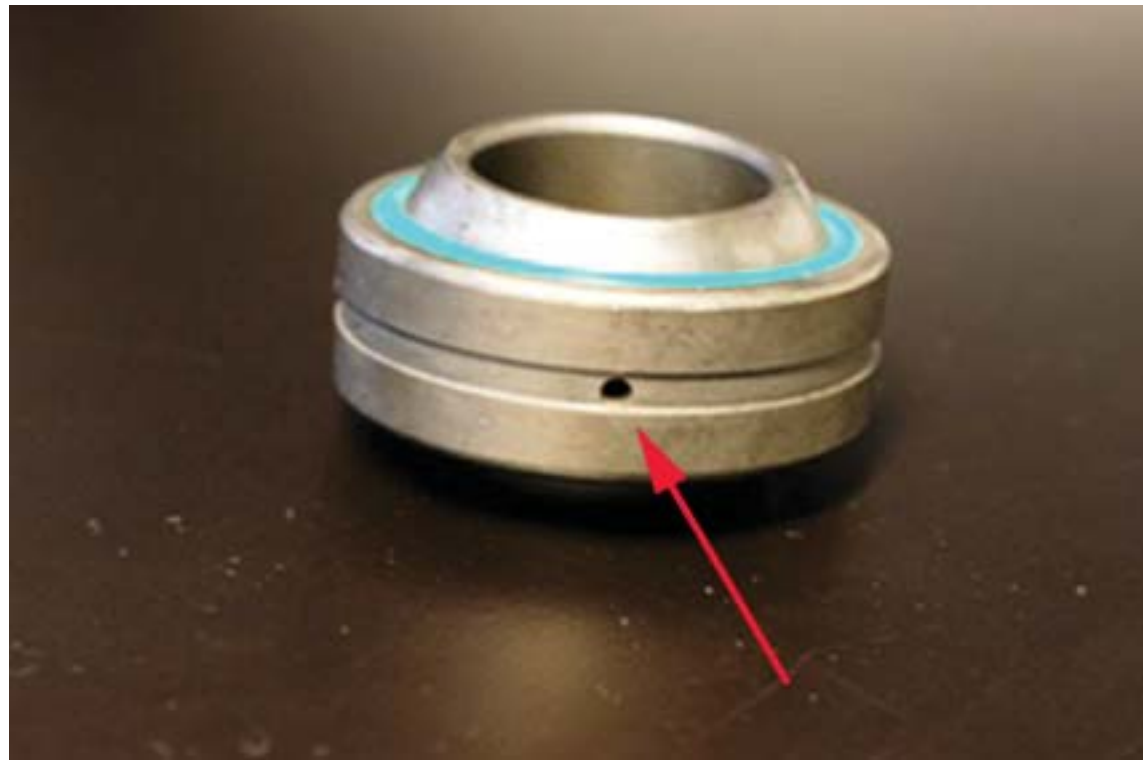
Annex 4

The Meisterwerk ASTS linkage has three pivot adjustments the top hole is the longest throw and has up to a 20% reduction, the middle hole has up to a 30% reduction, the bottom hole has up to a 42% reduction.



Annex 5

Although the Meisterwerk ASTS come pre-lubricated with a sealed spherical bearing, it is recommended the bearing is lubricated every twelve months to ensure smooth operation and longevity. The photo below illustrates the lubrication port.



LIMITED LIFETIME WARRANTY

Eurocode Tuning, Inc. (EUROCODE) warrants to the original purchaser that our Meisterwerk Adjustable Short Throw Shifter (PRODUCT) will be free of defects in material and workmanship for the lifetime of the PRODUCT.

This Warranty applies only to the original purchaser of the PRODUCT. To obtain any warranty service, you must provide EUROCODE with proof of purchase and date of purchase acceptable to EUROCODE, such as a copy of your purchase receipt. This warranty does not cover the removal or reinstallation of the PRODUCT. EUROCODE will, at its option, repair, replace or refund the purchase price of a defective component, provided you return the defective component during the warranty period, transportation charges prepaid, to Eurocode Tuning's Service Department or a Factory Authorized Service Center.

Attach your name, address, telephone number, a description of the problem, and a copy of your sales receipt. All returns must be accompanied by a Return Goods Authorization (RGA) number and such number shall be written clearly on the outside of the box. RGA numbers may be obtained by calling EUROCODE at 1-310-294-8108. This warranty does not apply to the (i) metal finish or (ii) if the product/component has been damaged by accident, abuse, misuse, collision, modification, misapplication, improper installation, or improper service. This warranty is void if any EUROCODE serial number has been removed or defaced. Commercial or industrial use or application, or any motorsports use voids the warranty.

THE WARRANTY SET FORTH ABOVE IS THE ONLY WARRANTY. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY IMPLIED WARRANTY WHICH BY LAW MAY NOT BE EXCLUDED IS LIMITED IN DURATION TO ONE (1) YEAR FROM THE DATE OF ORIGINAL RETAIL PURCHASE OF THE PRODUCT.

No EUROCODE dealer, agent or employee is authorized to make any modification, extension or addition to this warranty.

EUROCODE SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, DOWN TIME OR LOSS OF USE) UNDER ANY LEGAL THEORY, EVEN IF EUROCODE WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the exclusion of implied warranties or the exclusion or limitation of liability for incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights. You may also have other rights that vary from state to state. EUROCODE reserves the right to change Product/component design without notice. In situations in which EUROCODE has changed a Product/component design, EUROCODE shall have no obligation to upgrade or otherwise modify previously manufactured Products/components.

Warranty inquires and Products returned for warranty service should be sent to:

Eurocode Tuning, Inc.
Customer Service Department
1872 Del Amo Blvd
Torrance, CA 90501
1-310-294-8108
1-310-212-7141 International Fax