



InvisiLens Anti-Reflective Gauge Lenses



Installation Guide for 1st Generation MINI Standard Gauges

325 Sharon Park Dr. #652

Menlo Park, CA 94025

USA

(650) 241-1161

www.fes-auto.com

CONTENTS

Contents	2
1. Disclaimer	3
2. Welcome	4
3. Handling and Cleaning.....	5
4. Instructions for Tachometer	6
4.1 Unfasten the gauge from the steering column	6
4.2 Unplug the gauge from the wiring harness	6
4.3 Remove the gauge back cover.....	7
4.4 Remove the front trim ring	9
4.5 Remove the original lens	10
4.6 Position the new lens	11
4.7 Apply spacers to trim ring.....	12
4.8 Reassemble trim ring.....	12
4.9 Reassemble the back cover.....	13
4.10 Restore gauge to the steering column.....	13
5. Instructions for Speedometer	14
5.1 Remove the trim ring.....	14
5.2 Remove the original lens	16
5.3 Apply spacers to trim rings	17
5.4 Remount the trim ring with the new lens	17
6. Contact Information	18
7. Acknowledgement.....	18

1. DISCLAIMER

USE AT YOUR OWN RISK - USE OF THE PRODUCT MIGHT NOT BE ALLOWED ON PUBLIC STREETS. IT'S THE USER'S RESPONSIBILITY TO USE THE PRODUCT IN ACCORDANCE WITH THE LOCAL LAWS AND RESTRICTIONS.

Do not use this product until you have carefully read the following agreement. This sets forth the terms and conditions for the use of this product.

The installation of this product indicates that the buyer has read and understands this agreement and accepts the terms and conditions.

DISCLAIMER OF LIABILITY

FES, LLC (hereafter SELLER) shall in no way be responsible for the product's proper use and service. THE BUYER HEREBY WAIVES ALL LIABILITY CLAIMS.

The BUYER acknowledges that he/she is not relying on the SELLER's skill or judgment to select or furnish goods suitable for any particular purpose and that there are no liabilities which extend beyond the description on the face hereof and the BUYER hereby waives all remedies or liabilities, expressed or implied, arising by law or otherwise, (including without any obligations of the SELLER with respect to fitness, merchantability, and consequential damages) or whether or not occasioned by the SELLER's negligence.

The SELLER disclaims any warranty and expressly disclaims any liability for personal injury or damages. The BUYER acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and the BUYER agrees to indemnify the SELLER and to hold the SELLER harmless from any claim related to the item of the equipment purchased. Under no circumstances will the SELLER be liable for damages or expenses by reason of use or sale of any such equipment.

The SELLER assumes no liability regarding the improper installation or misapplication of its products. It is the installer's responsibility to check for proper installation and if in doubt, contact the manufacturer.

LIMITATION OF WARRANTY

FES, LLC (hereafter "SELLER") gives Limited Warranty as to description, quality, merchantability, fitness for any product's purpose, productiveness, or any other matter of SELLER's product sold herewith. The SELLER shall be in no way responsible for the product's open use and service and the BUYER hereby waives all rights other than those expressly written herein. This Warranty shall not be extended or varied except by written instrument signed by SELLER and BUYER.

The Warranty is Limited to one (1) year from the date of sale and limited solely to the parts contained in within the product's kit. All products that are in question of Warranty must be returned shipping prepaid to the SELLER and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by FES, LLC.

Under no circumstances shall the SELLER be liable for any labor charged or travel time incurred in diagnosis for defects, removal or reinstallation of this product, or any other contingent expenses. If the BUYER sends back a failed unit that is out of warranty and chooses to buy a refurbished unit, the refurbished unit will only carry a 60 day warranty. If the BUYER purchases a new unit at a predetermined discounted rate, it will have the standard 1 year warranty.

Under no circumstances will the SELLER be liable for any damage or expenses insured by reason of the use or sale of any such equipment.

IN THE EVENT THAT THE BUYER DOES NOT AGREE WITH THIS AGREEMENT: THE BUYER MAY PROMPTLY RETURN THIS PRODUCT, IN A NEW AND UNUSED CONDITION, WITH A DATED PROOF OF PURCHASE, TO THE PLACE OF PURCHASE FOR A FULL REFUND.

THE INSTALLATION OF THIS PRODUCT INDICATES THAT THE BUYER HAS READ AND UNDERSTANDS THIS AGREEMENT AND ACCEPTS ITS TERMS AND CONDITION

2. WELCOME

Thank you for your purchase of the InvisiLens Anti-Reflective Gauge Lens Kit!

This guide includes installation instructions for standard tach and speedo gauges in the 1st generation MINI (models R50, R52, R53), without factory Navigation or Chrono Pack option. Instructions for the Nav/Chrono version are available in a separate document.

InvisiLens is also available for gauges in the 2nd generation MINI (models R55, R56 and R57).

3. HANDLING AND CLEANING

- Handle lenses by edges to avoid fingerprints.
- Both sides of the lens are the same (no front and back).
- Use an ammonia-free glass cleaner to clean the anti-reflective lens. Alcohol based cleaners work well, such as computer monitor wipes. First apply cleaner to a microfiber or lint-free cotton cloth, then wipe.
- Do not use regular plastic or acrylic cleaners, or ammonia based cleaners. They leave a film on the surface that interferes with the anti-reflective quality.

4. INSTRUCTIONS FOR TACHOMETER

4.1 UNFASTEN THE GAUGE FROM THE STEERING COLUMN

Tilt the steering column to lowest position for easier access. Remove the two screws (Torx T25) that attach the gauge to the steering column.



Pull the gauge straight back, away from the dash. The gauge will become free (but still attached to the wiring harness).

4.2 UNPLUG THE GAUGE FROM THE WIRING HARNESS

Tilt the gauge back to expose the green connector.

Pull off the connector while pressing the tab.



4.3 REMOVE THE GAUGE BACK COVER

Remove two screws (Phillips#2) at the back of the gauge



Unclip the back cover's bottom tab. If the tab is covered by a label, cut or remove it to expose the tab.



Release the tab by using a flat screwdriver to lift the black tab over the white tab, while pulling the back cover away from the gauge. Separate the back cover from the gauge.



4.4 REMOVE THE FRONT TRIM RING

Release the 3 tabs that hold the trim ring, and remove the ring.

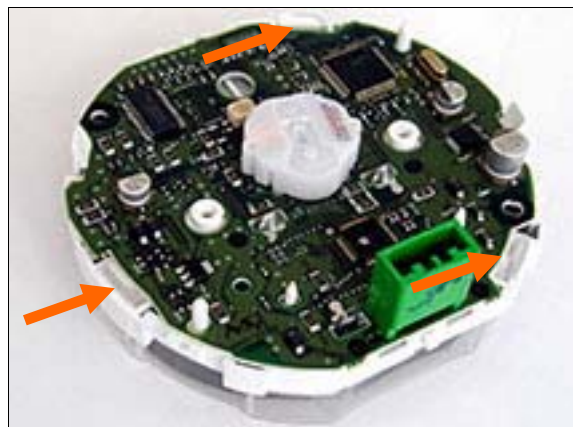


Shown with trim ring removed:



4.5 REMOVE THE ORIGINAL LENS

Remove the original lens by releasing the 3 clear tabs.



4.6 POSITION THE NEW LENS

Set the gauge face up, and prop up the back to make it level



Position the new lens on top of the black ring, with the cutout at bottom.



4.7 APPLY SPACERS TO TRIM RING

The kit includes three pieces of adhesive backed 3/16" thick foam rubber. Remove the protective backing and stick the pieces into the groove channel inside the trim ring, as shown.



4.8 REASSEMBLE TRIM RING

Place the trim ring over the gauge and line up the tabs



Snap the trim ring onto the gauge, and ensure that all 3 tabs engage completely.

4.9 REASSEMBLE THE BACK COVER

Snap the back cover on and restore the two screws. Make sure that the pieces are lined up and fit completely together.

4.10 RESTORE GAUGE TO THE STEERING COLUMN

Reconnect the gauge to the wiring harness and insert the gauge into the mounting slot.

Fasten the gauge to the steering column with the two Torx screws. **Note:** It is easy to cross thread these screws. Check carefully during this step

5. INSTRUCTIONS FOR SPEEDOMETER

5.1 REMOVE THE TRIM RING

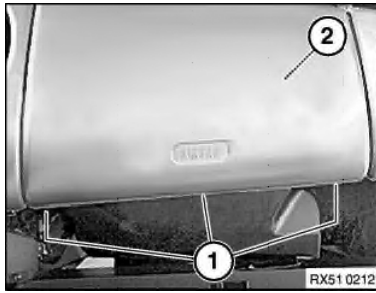
The trim ring surrounding the speedometer pops off, using the following procedures.

Instructions for 2005 and later (3 panel dash):

1. Open the glovebox door.
2. Pull the bottom of the passenger side dash panel trim away from the dash. The bottom of the panel will release from 3 clips. Leave the top of the panel attached.
3. Pull the bottom of the center dash panel trim away from the dash. The bottom of the panel will release from clips. Leave the top of the panel attached.
4. Pull the bottom of the center dash panel outwards 2-3 inches. This will lift the trim ring away from the speedo or chrono gauge, creating a gap.
5. There should be enough clearance to insert your fingers underneath the inside edge of the ring, allowing you to pull it off. Alternatively, you could reach under the center dash panel and push the ring out from back.
6. After the ring is removed, snap the bottoms of the dash panels back in place, and then proceed with the next installation steps.

Instructions for 2004 and earlier (5 panel dash):

1. Open the glovebox door.
2. Remove 3 screws from the bottom edge of the passenger side dash panel, at the locations indicated by ① in the diagram:



3. On the center dash panel, remove a screw near the bottom right corner of the panel [*bottom left corner for RHD*].
4. Pull the bottom of the passenger side dash panel trim outward. The bottom of the panel will become loose. Leave the top of the panel attached.
5. Pull the bottom of the center dash panel trim away from the dash. The bottom of the panel will release from clips. Leave the top of the panel attached.
6. Pull the bottom of the center dash panel outwards 2-3 inches. This will lift the trim ring away from the speedo, creating a gap.
7. There will be clearance to insert your fingers underneath the inside edge of the ring, allowing you to pull it off. Alternatively, you could reach under the center dash panel and push the ring out from back.
8. After the ring is removed, snap the dash panels back on, restore the screws and proceed with the lens installation.

5.2 REMOVE THE ORIGINAL LENS

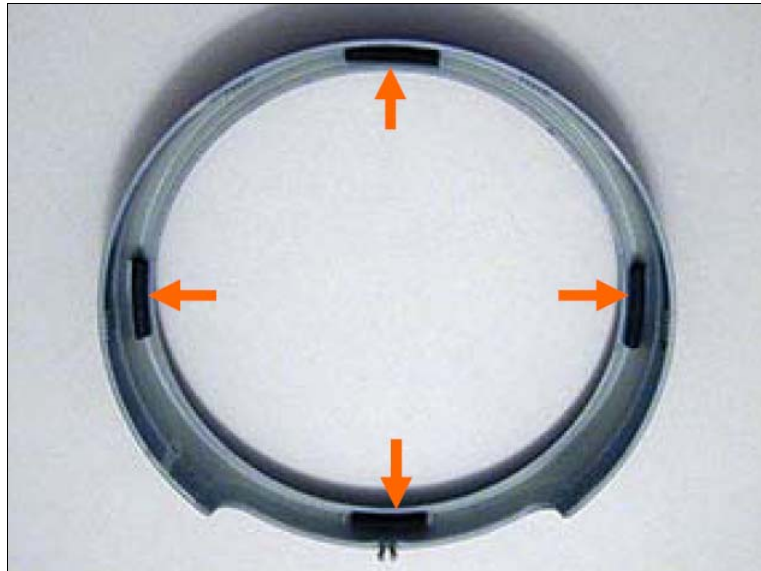
To remove the original lens, it is not necessary to remove the speedometer or the surrounding dash trim. The lens is attached with 5 tabs at the locations shown.



To remove, press down firmly on the two tabs at the top. The tabs will release and the lens can be pulled away from the gauge.

5.3 APPLY SPACERS TO TRIM RINGS

The kit includes four pieces of adhesive backed ¼" thick foam rubber. Remove the protective backing and stick the pieces into the groove channel inside the trim ring, as shown.



5.4 REMOUNT THE TRIM RING WITH THE NEW LENS

Place the new lens inside the trim ring, and orient the hole to fit over the odometer reset button. With the new lens inside the trim ring, reinstall the ring over the speedometer, inserting the reset button through the hole in the lens.

Before fully pressing in the trim ring, verify that the reset button can move freely when pressed, and adjust the lens hole to align accurately with the button.

6. CONTACT INFORMATION

Support can be obtained by contacting us via:

Phone: (650) 241-1161

E-Mail: support@fes-auto.com

Web: www.fes-auto.com/support

7. ACKNOWLEDGEMENT

This product was conceived, prototyped and produced by Richard Woo (rkw on various online MINI forums). Richard is a software engineer in the San Francisco Bay Area, and asked FES to help bring this to the wider MINI community. Without Richard, this wouldn't exist. Good job Richard!