



InvisiLens Anti-Reflective Gauge Lenses



Installation Guide for 1st Generation MINI Nav & Chrono Gauges

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CONTENTS

Contents	2
1. Disclaimer	3
2. Welcome	4
3. Handling and Cleaning.....	5
4. Instructions for Speed/RPM Dual Cluster	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 rings.....	9
4.5 Remove the original lenses	10
4.6 Position the new lenses	11
4.7 Apply spacers to trim rings	11
4.8 Reassemble trim ring	12
4.9 Reassemble the back cover.....	12
4.10 Restore gauge to the steering column.....	12
5. INstructions for Chrono Pack	13
5.1 Remove the trim ring.....	13
5.2 Remove the original lens	14
5.3 Apply spacers to trim rings	15
5.4 Remount the trim ring with the new lens	15
6. Contact Information	16
7. Acknowledgement.....	16

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 person 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 1st generation MINI (models R50, R52, R53) with factory Navigation or Chrono Pack option.

InvisiLens is also available for 1st generation MINI with the standard tach and center speedo configuration, and for the tachometer of 2nd generation MINI (models R55, R56 and R57).

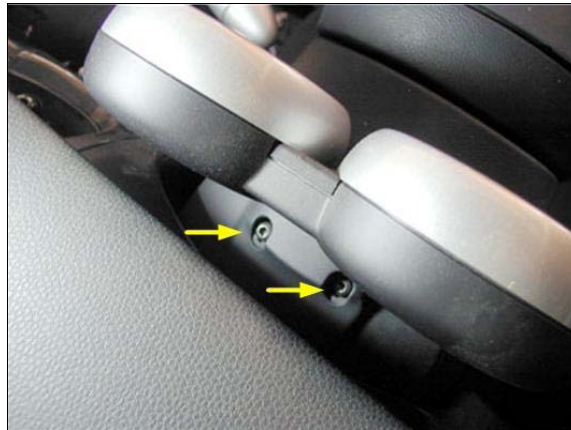
3. HANDLING AND CLEANING

- 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. 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.
- Alcohol based cleaners work well, such as computer monitor wipes.

4. INSTRUCTIONS FOR SPEED/RPM DUAL CLUSTER

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).

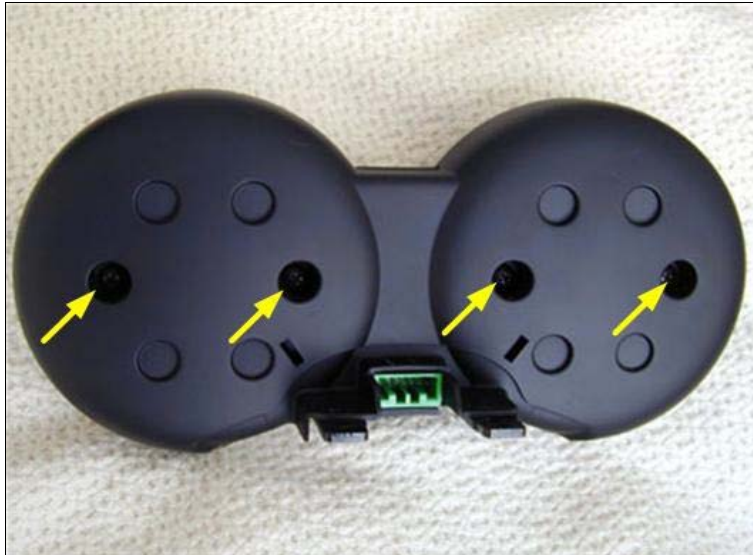
4.2 UNPLUG THE GAUGE FROM THE WIRING HARNESS

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 four screws (Phillips#2) at the back of the gauge



Unclip the two bottom tabs of the back cover. If one of the tabs is covered by a label, cut or remove it to expose the tab.



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

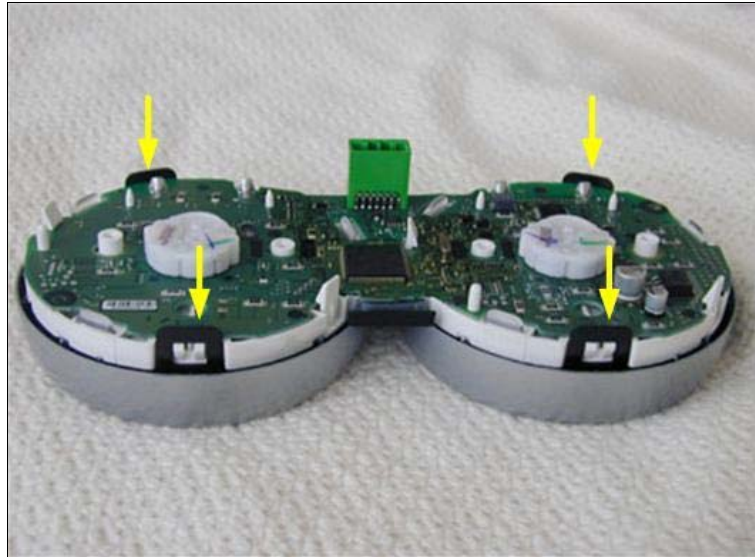


Separate the back cover from the gauge.



4.4 REMOVE THE FRONT TRIM RINGS

Release the four black tabs that hold the trim rings, and remove the front trim.



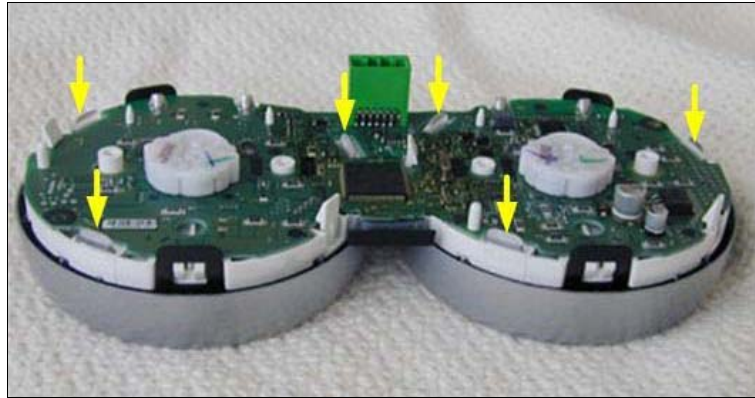
Note: If you have chrome rings, the black middle trim piece may be attached underneath with double stick foam tape. If there is tape, you'll need to separate the pieces far enough apart that you can insert something to pry or cut the double stick tape. Dental floss works well for cutting through the tape.

Shown with trim rings removed:



4.5 REMOVE THE ORIGINAL LENSES

Remove the two original lenses by unclipping 6 attachment tabs (3 for each lens).



Close up of a lens tab:



4.6 POSITION THE NEW LENSES

Set the gauge face up, and prop up the back to make it level. Place the new lenses on top of the dials.



4.7 APPLY SPACERS TO TRIM RINGS

The kit includes 4 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, at 3 and 9 o'clock positions.



4.8 REASSEMBLE TRIM RING

Position the trim ring over the gauge and line up the black tabs. Align the hole in the speedometer lens with the odometer reset button.



Snap the trim ring onto the gauge, and ensure that all 4 tabs engage completely. Verify that the odometer reset button moves freely when pressed; if not, readjust alignment of the speedometer lens.

4.9 REASSEMBLE THE BACK COVER

Snap the back cover on and attach with the 4 screws. Make sure that all pieces are lined up and fit completely together.

4.10 RESTORE GAUGE TO THE STEERING COLUMN

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

Fasten the gauge with the 2 Torx screws. **Note:** It is easy to cross thread these screws. Check carefully during this step.

5. INSTRUCTIONS FOR CHRONO PACK

5.1 REMOVE THE TRIM RING

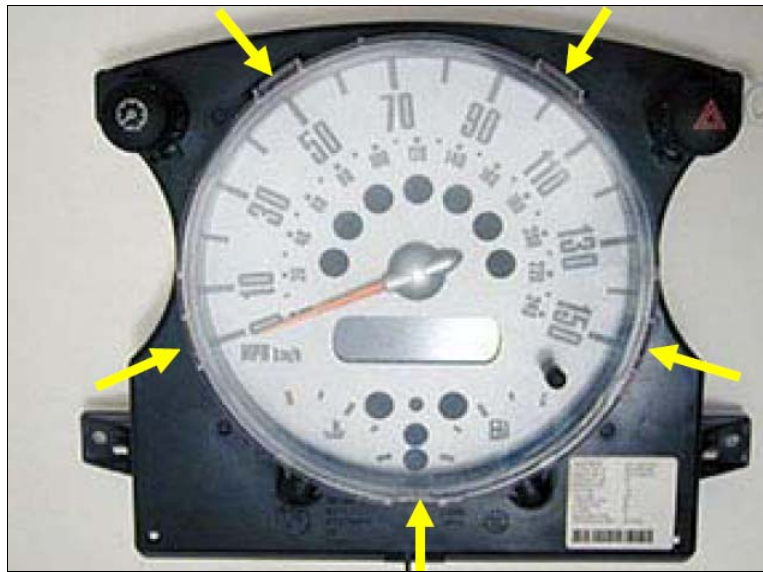
The trim ring surrounding the chrono gauge pops off, using the following procedure.

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.

5.2 REMOVE THE ORIGINAL LENS

A center speedometer is pictured. The procedure is the same for a Chrono pack.

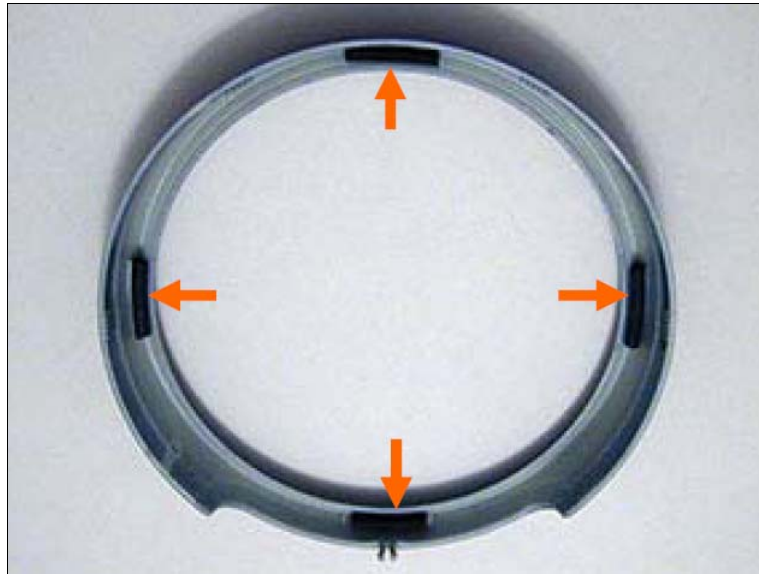
To remove the original lens, it is not necessary to remove the gauge or the surrounding dash trim. The lens is attached with 5 tabs at the locations shown.



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. Check that the lens is centered.

With the new lens inside the trim ring, reinstall the ring over the Chrono gauge.

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 (rkwo 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!