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WORLD LEADER IN REMOVABLE HARDTOPS

SMOOTHLINE.COM

INSTALLATION INSTRUCTIONS
1990 to 2005 MAZDA MIATA HARDTOP
Flush Mount Small Window (All)
or
Big Window (Plexiglas Only)

You have just purchased the finest Hardtop available on the market today. Skilled craftsmen using the highest quality materials and modern technology have manufactured this product. **For complete satisfaction of your purchase we highly recommend that you read the following simple instructions.** Ascertain that your installer is qualified and insist that he reads and follows the instructions. By following these instructions you will have many years of enjoyment and the top will last as long as your car.

For best results, we recommend that your Hardtop be installed and finished by a professional body shop.

A point to remember, automobiles are mass-produced and built with certain tolerance. Sometimes these tolerances are quite large. No two are alike. A body man is a skilled tradesman; a skill that is not learned overnight. A "well fitting" automobile is a series of adjustments and compromises.

DO NOT PAINT until after initial installation and not until you are completely satisfied with the fit. After this initial installation procedure to take on/off will be as easy as placing the convertible top up/down position.

Included in your shipping carton are parts which are necessary in the final assembly of the Hardtop as shown below



Side Window Drip Guard Moldings (pr)



Side Window Rubber Seals (pr)



Rear Window

Attached to the hardtop



Front attachment hook
& knob assembly (2)



Rear attachment hook assembly with adapter plate
and bolt (2)

A. Prior to placing the top on the car:

1. Fold convertible top into the normal top down position.
2. Clean top of windshield frame and rear deck area.
3. Inspect windshield rubber for excessive wear, dryness, or damage. **This will cause water leakage if not in good condition.** (Older models should always be replaced)



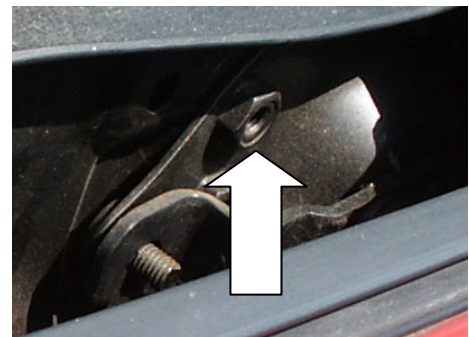
4. Lubricate the bottom of the deck rubber of the hardtop with a silicone lubricant or Vaseline. (Keep lubricant from surface to be painted)
5. Familiarize yourself with the working of the front and rear fastener assemblies.

- A. The two front fasteners hook to the windshield at the same place as the convertible latches.
- B. The two rear fasteners hook to the supplied adapter plates, which in turn are bolted to the car near the convertible pivot point.

7 Completely loosen front and rear fastener knobs.

B. Attaching the Rear Adapter Plates: The adapter plate (2 supplied) is the small stainless angle with a hole in each end.

1. Viewing the car from the outside, looking into where the convertible pivots, behind the rear door jam, find two threaded holes located on the inner panel of the car. On newer models this area is covered with plastic that may have to be trimmed. The adapter plate will be bolted to the car using the top threaded hole.



2. Position the adapter plate over the threaded hole (shown above) with the adapter plate angle towards the outside of the car and the square end of the adapter plate towards the bottom. Insert the supplied bolt through the adapter plate into the threaded hole. Tighten the bolt keeping the other hole in the adapter plate in the upright position.
3. Repeat on other side. The adapter plates should remain attached to the car when the Hardtop is not in use.

C. Lower side windows and place the Hardtop on the car:

Make sure that the top is properly positioned, front and rear as well as centered on the car.

1. From the rear of the car, push down and forward on the rear of the Hardtop, below the rear window, on both sides until the rear pops into position. There should be an even gap around the bottom edge of the Hardtop and the rear of the car.
2. Gently engage and latch the front fasteners. Position the “J” hook into the windshield latch hole and catch the edge of the hole with the hook. While pushing down on the front of the Hardtop above each latch while lightly tightening each knob equally. **DO NOT over tighten**. The normal combined weather strip gap between the Hardtop and the painted windshield frame is 3/8” to 1/2”.
3. Note: If the “J” hooks appear to be too short, the hardtop is not properly positioned.

To attach the rear fasteners the front fasteners should still be slightly relaxed. Loosen both the upper knobs and lower nuts on the rear fastener hooks. Insert the “J” into the top hole of the adapter plate previously attached to each side of the car with the front of the “J” facing inward.

4. Tighten each rear knob equally. While pushing down and forward as in Step 2. **DO NOT** over tighten. **Note:** The lower nut on the “J” hook should be unscrewed and kept away from the stainless steel “L” bracket during the tightening procedure.
5. Tighten front-fasteners snug but **DO NOT OVER TIGHTEN**. If the Hardtop bows up in the center, it is **too tight**. Normal front to rear gap between the hardtop and the windshield frame in the center is 3/8”-1/2”. Note: There must be a gap between the car body and the Hardtop to avoid paint abrasion. Check side window operation. If there is any interference with window, slightly loosen rear fastener knob to adjust. Close each window and gently close each door to check for any interference between Hardtop, door or window.

D. Painting

Use normal body shop procedures for prepping and sanding surface to be painted. The factory prime coat is water based Urethane, no sealer is necessary, and is compatible with all topcoats. We recommend dry sanding the primer verses wet sanding because of water absorption. Caution: **The factory primed surface must be top coated before being exposed to the weather.** Failure to topcoat over the prime coat can cause blisters or delaminating and will void the warranty.

We highly recommend finishing paint and polishing before installing the Rear Window, Side Window Seals, and Side Window Drip Guard Moldings.

E. Rear Window Installation



Use normal window installation techniques and procedures for mounting the rear window. We recommend the dam method using a combination of butyl tape and urethane windshield installation adhesive. Clean all surfaces with alcohol before bonding. **Position window using spacers around the perimeter. The outside surface of the window should be slightly below the surface of the hardtop.**

F. Side Window Rubber Seal Installation on all Hardtops

NOTE: The bottom of the window seal at the door jam should be positioned between the hardtop and the body of the car.

1. Reinstall hardtop and install side window rubber seals.
2. Clean the bonding surface on the hardtop with alcohol.
3. With the doors open begin at front corner. Remove red film from adhesive approximately 3" from the front portion of the window seal.
4. Insert nose of the window seal into and tight against the Miata windshield rubber weather seal for a perfect fit. Press the side window seal against the hardtop for adhesion.
5. Position the front portion of the side window seal against door window for perfect fit.
6. A crisp dollar bill can be used to check for proper window seal. Open each door with the window in the up position. Place the bill between the window and the seal and close the door. The bill should drag but not rip while pulling it out.
7. Proceed rearward with the installation while checking and then proceed downward. Compress rubber – Do not stretch.
8. Check the entire length of the seal.
9. The adhesive does not become a permanent bond for 48 hours to allow for repositioning.
10. Position the bottom portion of seal at the door jam between the hardtop and body of the car. As shown below with hardtop removed from the car.





11. After water test and road test for wind noise set adhesive with heat gun while pressing the seal firmly into position.
12. To lock Hardtop in place screw lower nuts on “J” hooks up against “L” brackets front and rear. Tighten knobs. Older, high mileage cars may need side window mechanisms and guides replaced or refurbished in order to obtain a satisfactory seal.
13. Periodically check the tightness of all the fastener knobs.

Note! Initially when raising the window it may follow the wrong track in the rubber until the rubber seal takes a permanent set from the window. Make sure that the rubber is properly lubricated with silicone based wax or Vaseline. To avoid this, push outward on the window while it is rising. When the car is not in use, leave the windows in the up position then close the doors to facilitate the set.

Tips for Successful Installation of Hard plastic "L" shaped drip guard moldings

Drip Guard Moldings "L" Shaped - Clean the surface of the Hardtop with alcohol. Remove a short section of tape protective film. Press firmly for adhesion. Careful use of a heat gun at corners will facilitate installation. Check openings. Adjust the molding to suit. The adhesive does not become a bond for 48 hours to allow for repositioning. When satisfied with the gap/fit use the heat gun while pressing down on the molding to permanently activate adhesion.

Rubber Seals – Clean the surface with alcohol. Compress rubber from end to end. Do not stretch.

G. Side Window Drip Guard Moldings



Note: The long leg of the drip edge guard should be on the outside edge of the hardtop pointing upward.

Install the side window drip guard molding by removing the tape protective film. As you proceed start at the front corner aligning the edge guard and hardtop while moving rearward. Press firmly for permanent adhesion. Careful use of a heat gun or hair dryer will facilitate installation

H. Maintenance of the top:

1. Side window rubber molding may be lubricated with a silicone base wax or Vaseline for easy winding of the windows. Similar lubrication may be used on the deck rubber seal if squeaking occurs.
2. If painted, keep surface waxed to preserve the gloss finish. On vinyl tops, clean periodically with a vinyl cleaner and coat with a vinyl top sealer.
3. If the rear window is Plexiglas caution should be exercised to prevent scratching. Clean with mild soap and sponge or soft cloth. Dry with a chamois skin- keep dirty rags away from the window. A Plastic wax such as "Mirror Glaze" can be used to wax the window.

Now step back admire and enjoy the new aggressive attitude of your Miata.

Warranty: All Smooth Line Hardtops are warranted to be free from defects in material or workmanship and are warranted for one (1) year from date of purchase. Smooth Line will, at its discretion, repair or replace at its factory, without cost, any part that fails in service, upon our inspection, within the warranty period. The warranty does not cover freight, labor, failure of related components or failure resulting from alteration, misuse, accident damage, faulty installation, color coating, or faulty repair. For warranty service for a Hardtop purchased from a distributor you must make all arrangements through that distributor. If purchased directly from Smooth Line contact Smooth Line sales department. Warranty for all components must be supported by the proper registration documentation including the original shipping invoice. **At no time are Smooth Line Hardtops returnable for credit or refund for any reason.**

Returned Goods: Written authorization must be obtained from Smooth Line and the distributor before merchandise may be returned for warranty service. All merchandise must be properly packaged in non damaged condition. An itemized packing slip, showing invoice number and date, with full explanation of reason for return must be included. All returns must be sent freight prepaid. All costs relative to a return are not reimbursable. Unauthorized returns will be refused.

Freight Damage: Smooth Line products are carefully packaged by professionals. Delivery in good condition is the responsibility of the carrier. All shipments are insured. Upon receiving your merchandise, while in the presents of the delivery driver, before signing, open package and inspect merchandise carefully for damage or rough handling. If damaged, refuse shipment, have driver note damaged on bill of lading. Call Smooth Line after driver leaves with the shipment.

The above terms and conditions pertain to all orders and will be strictly applied. Please do not ask for exceptions.



WARNING

This product is designed to enhance the appearance of the vehicle and to shield the occupants from ordinary weather conditions. Do not rely in any way on the components of this product to contain occupants within the vehicle, or to protect against injury or death in the event of an accident. This product will not protect the occupants from falling objects.

WEAR SEAT BELTS AT ALL TIMES.