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Title: ProStar Hood-Mounted Mirror Reinforcement Kit

Applies To: ProStar Vehicles with Loose, Vibrating, or Rattling Hood-mounted Mirrors

DESCRIPTION

These instructions outline the steps necessary to install a reinforcement kit on the production ProStar[®] hood-mounted mirror system. Use this kit to mitigate damage that can result from loose, vibrating, or rattling hood mounted mirrors.

PARTS INFORMATION

Part #	Description	Qty
8000951R91	Hood-Mounted Mirror Reinforcement Kit	1

8000951R91 KIT CONTENTS

Part #	Description	Qty
3981961C1	Large Rectangular Aluminum Plate, 0.125 in. thick	2
3981976C1	Small Rectangular Aluminum Plate, 0.125 in. thick	2
3981970C1	Large Oval Aluminum Plate (with Neoprene Gasket), 0.125 in. thick	2
3981978C1	Small Oval Aluminum Plate (with Neoprene Gasket), 0.125 in. thick	2
2614576C1	Grade 8 Hex-Head Fastener, M8 x 1.25 x 40	6
2614577C1	Flat Washer, M8	10
2614578C1	Nylock Nut, M8 x 1.25	6
2614579C1	Small Tube of Two-Part Epoxy	1

SERVICE PROCEDURE

	WARNING:
<p>Park vehicle on hard, flat surface, turn engine off, set parking brake, and install wheel chocks to prevent vehicle from moving in either direction. Failure to do so may result in property damage, personal injury, or death.</p>	

	WARNING:
<p>If vehicle must be raised, do not work under vehicle supported only by jacks. Jacks may slip or fall over,</p>	

potentially resulting in property damage, personal injury, or death.



Figure 1. Existing Wear to Production Hood-Mounted Mirror System.

These instructions outline the steps necessary to install a reinforcement kit on the production hood-mounted mirror system. The kit is intended to minimize the effect of existing wear (Figure 1) and prevent future wear between the mirror stanchions and hood assembly.

1. Bring vehicle into shop and park on flat surface.
2. Shift transmission to Park or Neutral, set parking brake, and install wheel chocks.
3. Unlatch and open hood.



Figure 2. Inner Fender Splash Panel.

4. Remove inner fender splash panels on both sides of vehicle (Figure 2).



Figure 3. Double and Single Mirror-Mounting Plate.



Figure 4. Mirror Removal.

5. With help from an assistant, remove double and single mirror-mounting plates and nuts. Assistant should be prepared to catch mirror assembly as it is freed from hood (Figures 3 and 4).



Figure 5. Surface Area.

6. Using household surface cleaner, thoroughly clean area occupied by and immediately surrounding previously removed mirror plates (Figure 5). Dry area when done.

7. Using Brake Kleen (or equivalent residue-free solvent) and clean shop towel, thoroughly wipe down area occupied by and immediately surrounding removed mirror plates. Allow solvent to dry thoroughly before proceeding to Step 8.

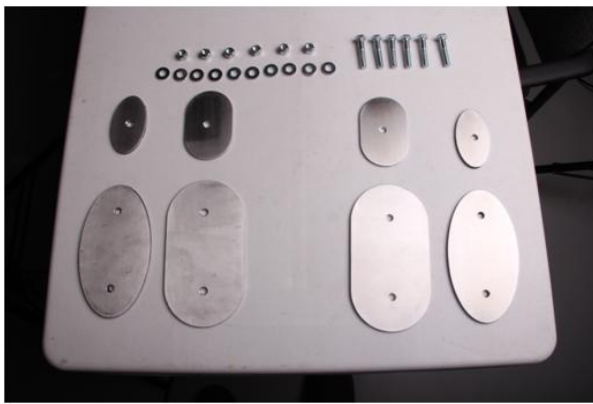


Figure 6. Kit Contents.

CAUTION :

The following step is critical to the assembly process because epoxy will be applied to the underside of reinforcement plates, and will begin hardening the moment it is applied.

8. Arrange contents of kit into four groups, to make identification and application quick and error-proof (Figure 6).



Figure 7. Single-Bolt Stanchion Components.

9. Remove single-bolt stanchion from mirror post. This will require removal of long Allen-head cap screw which passes through its center. Discard all production washers, nuts, and bolts, except long Allen-head cap screw which passes through stanchion and nut engaging it (Figure 7).

10. With single-bolt stanchion fully disassembled, replace removed center bolt with M8 x 1.25 x 40 Grade 8 fastener.

11. With new bolt in place, reassemble single-bolt stanchion to mirror assembly, in reverse order of Step 9.



Figure 8. Mirror Post and Stanchion.

12. Before proceeding, make sure both Allen-head cap screws attaching mirror posts to their respective stanchions are securely tightened (Figure 8).

CAUTION :

For the following steps, it is important to have the help of an assistant and a clear understanding that the steps must be completed quickly. Epoxy will be applied to the underside of reinforcement plates and will begin curing the moment it is applied. If proper precautions are not followed, damage to equipment may occur.



Figure 9. First Set of Kit Components.

13. Gather and arrange first set of reinforcement kit components (Figure 9), consisting of:

- a. One small oval aluminum plate
- b. One small rectangular aluminum plate
- c. One large oval aluminum plate
- d. One large rectangular aluminum plate
- e. Three M8 x 1.25 x 40 hex-head fasteners
- f. Five M8 flat washers
- g. Three M8 x 1.25 Nylock nuts

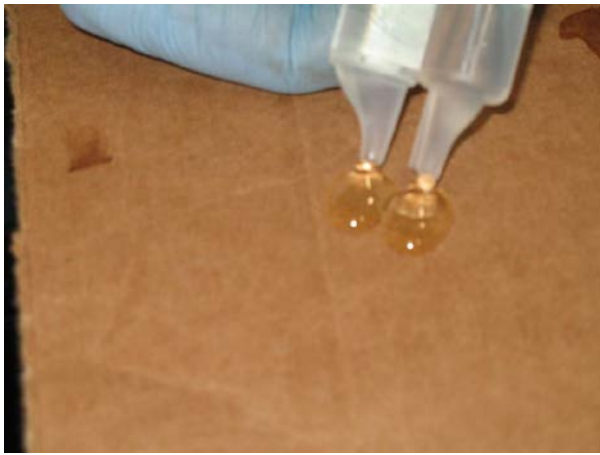


Figure 10. Epoxy Mixture.

14. Mix approximately 2 oz of epoxy on large piece of discarded cardboard (Figure 10).



Figure 11. Single-Bolt Stanchion Assembly.

15. Have assistant assemble top-side single-bolt stanchion components, making sure to install oval plate with neoprene gasket facing toward surface of hood (Figure 11).



Figure 12. Epoxy Application.

16. Wearing protective gloves, apply moderate coating of epoxy to small rectangular plate (Figure 12).

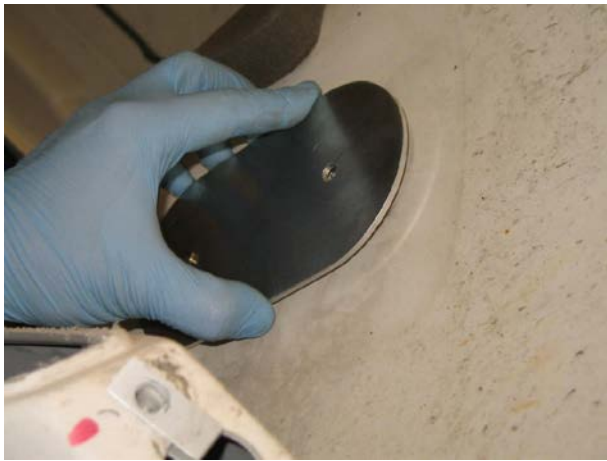


Figure 13. Plate Attachment.

17. Attach adhesive-covered side of plate to back-side of hood (Figure 13).



Figure 14. Single-Bolt Stanchion Installation.

18. On top-side of hood, have assistant install single-bolt stanchion, feeding bolt through hole in hood. Make sure neoprene gasket lies flat on hood surface (Figure 14).



Figure 15. Hood and Lower Reinforcement Plate.

19. On bottom-side of hood, bolt should protrude through hood and lower reinforcement plate. Install one flat washer and one M8 x 1.25 Nylock nut to bolt (Figure 15).

20. Using appropriate socket/ratchet combination, tighten Nylock nut until loosely secure.



Figure 16. Two-Bolt Stanchion Assembly.

21. Have assistant assemble top-side two-bolt stanchion components with one M8 flat washer under each bolt head. Make sure oval plate is installed with neoprene gasket facing toward surface of hood (Figure 16).

22. Wearing protective gloves, apply moderate coating of epoxy to large rectangular plate (as shown in Figure 12).

23. Attach adhesive-covered side of plate to back-side of hood (as shown in Figure 13).

24. On top-side of hood, have assistant install two-bolt stanchion in place, feeding bolts through holes in hood. Make sure neoprene gasket lies flat on hood surface (as shown in Figure 14).

25. On bottom-side of hood, bolts should protrude through hood and lower reinforcement plate. Install one flat washer and one M8 x 1.25 Nylock nut on each bolt (as shown in Figure 15).

26. Using appropriate socket/ratchet combination, tighten Nylock nuts on both stanchions until light resistance is felt, alternating from nut to nut.

27. Wait five minutes for epoxy to cure before proceeding to Step 28.



Figure 17. Nylock Nut.

28. Using calibrated torque wrench, tighten each Nylock nut to 30 lb-ft (41 N·m) (Figure 17).

29. Repeat Steps 5 through 28 on opposite side of vehicle.

30. Reinstall inner fender splash panels previously removed.

31. Close and latch hood.

32. Remove wheel chocks.

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