

TECHNICAL BULLETIN



MODEL/DERIVATIVE:
MGF

Bull. No: 0016
CDS. ref: M6932bu
Issue: 2
Date: 10/12/97

AFFECTED RANGE:

All vehicle with standard hardtops and up to 'Hardtop Serial Number' F493

Note: Hardtop identification number can be found hand written on the base of the hardtop B-Post. The preceding letter to the serial number is consecutive, i.e. E.... being an earlier build than F...., the number is consecutive only within the letter range.

RE-ISSUE INFORMATION:

Complaint code and SRO description amendment

PROBLEM:

HARDTOP POOR FIT TO DOOR GLASS OR REAR DECK - VARIOUS

1. Poor fit or alignment resulting in gaps. This allows water to enter vehicle between door glass and seals.
2. This bulletin also addresses the problem of hardtop fouling the rear deck resulting in:
 - Squeaks or rattles
 - Chafing marks on body contact surface
 - wear marks on hood fabric

CAUSE:

- Insufficient rigidity within the cantrail seal, particularly in B-Post area.
- Rear clamp design, allowing uncontrolled compression of deck seal

ACTION:

The following table lists modifications to earlier hardtops including their introduction points, these modifications are achievable in service.

Modification:	From Vin/Hard top Serial no.:
'D' shaped deck seal	Vin 014487
New cantrail seals	Serial no. F493
Cantrail seal brackets	Serial no. F493
B-Post seal brackets	Serial no. F493
New rear catches	Serial no. F493

For information only:

The table below lists enhancements included with the later style hardtops which cannot be applied to earlier versions. They do not affect water integrity or fouling of the rear deck.

Modification:	From Vin/Hard top Serial no.:
New header catches	Serial no. F493
Small section deck seal	Serial no. F493
H/Top relief cut outs	Serial no. F493

Included in this bulletin:

The actions below describe, fitting of modified rear catches, fitting the latest type cantrail seals along with their matching brackets and fitting the 'D' section deck seal (required for earlier hardtops only).

This modified component combination will result in a more controlled fit of hardtop in relation to the door glass and the tonneau deck.

Note 1: Current production hardtops have additional relief 'cut outs' at the rear inner edge which allow a smaller section rear deck seal to be fitted. This has the advantage of reducing the hardtop height in relation to the rear deck and so enhancing appearance. These modifications are not available as 'in service updates' to earlier hardtops.

Note 2: If vehicle is prior to Vin 014487 and still has a foam type deck seal fitted, hardtop should be updated by replacing seal for the later 'D' section type, see *Action 3* below, if 'D' section seal is already fitted, trimming only may be required.

Note 3: Making allowances for *Note 2*, all modifications described, require to be carried out at the same time so as to achieve a result close to that of the current production condition.

Preparation:

Remove hardtop from vehicle and place upside down on a covered work surface. Take care when handling to prevent scratches etc.

Action 1:

Replace both rear catches for modified catch part number DXW 100200PMA.

Part Description:

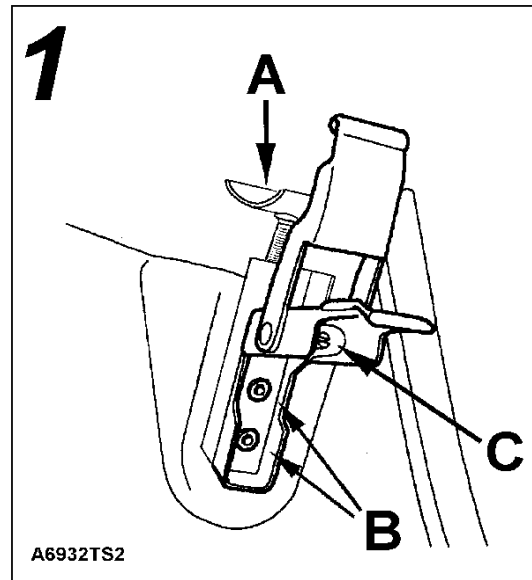
The new modified catch has an integral height stop shoe *illustration 1 (A)*, which controls the hardtop height. When adjusted correctly, the height shoe registers on top of the existing body fixing hook. The catch is then clamped to the hook lower as with original catch. As a result the hardtop will compress the rear seal a predetermined amount. This eliminates excessive seal compression which can result in hardtop fouling tonneau deck.

Fitting Procedure:

1. To remove catch first drill out securing rivets (*B*) with a 5mm drill.

IMPORTANT: use only a short reach drill to prevent penetration of outer hardtop skin on break through.

2. Remove loose rivet heads by tilting and shaking hardtop until they can be retrieved from the gaps in the lower B-Post. Ensure all four are removed to prevent complaints of rattles.
3. Fit modified catches with special securing rivets, part number DYQ 100340. Ensure the rivet gun used has a nose narrow enough to enter the catch carrier. Failure to ensure this will result in incorrect register of the rivet head.



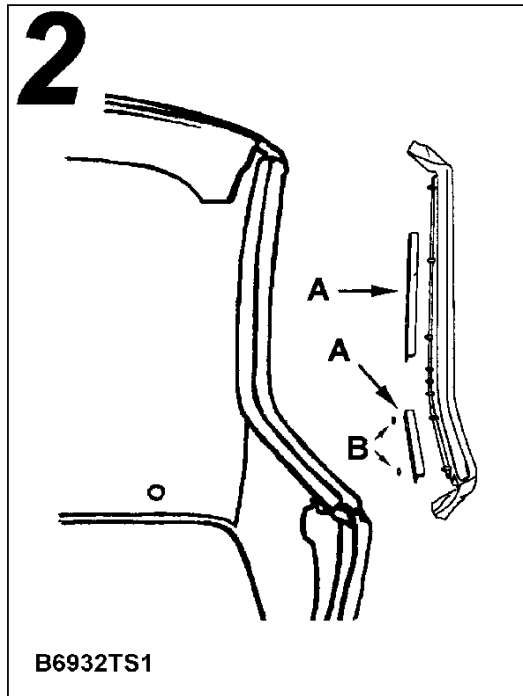
Action 2:

Replace both cantrail seals for modified types DSF 101280PMD (right hand) and DSF 101290PMD (left hand).

Also required are the newly introduced cantrail seal brackets DSZ 100160, B-Post brackets DSZ 100150 and washers EAM 6543.

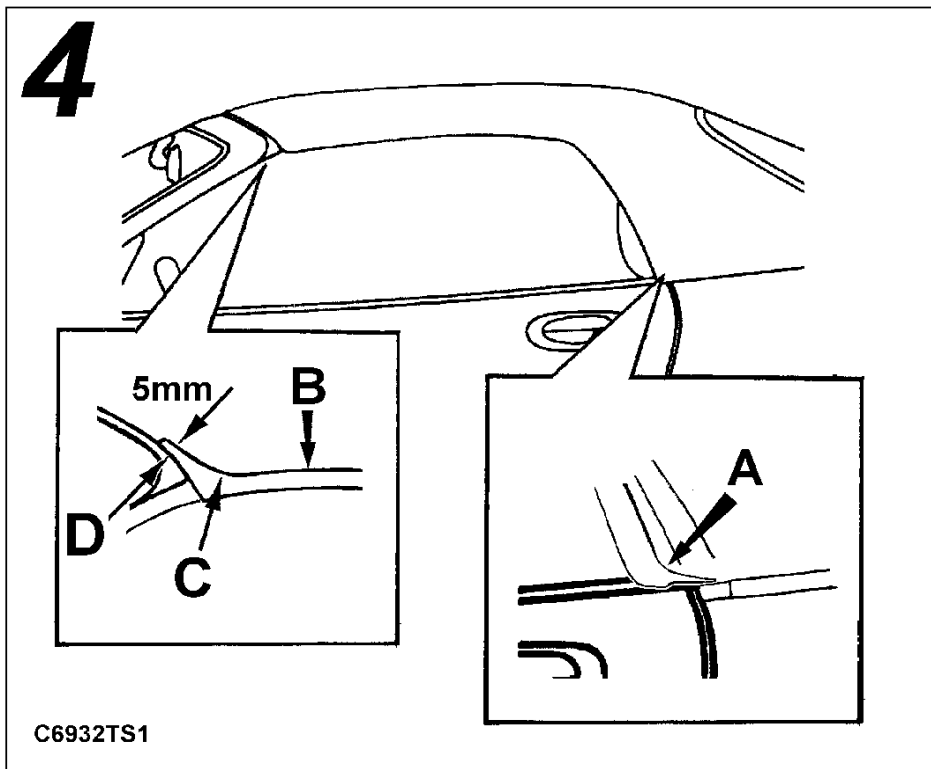
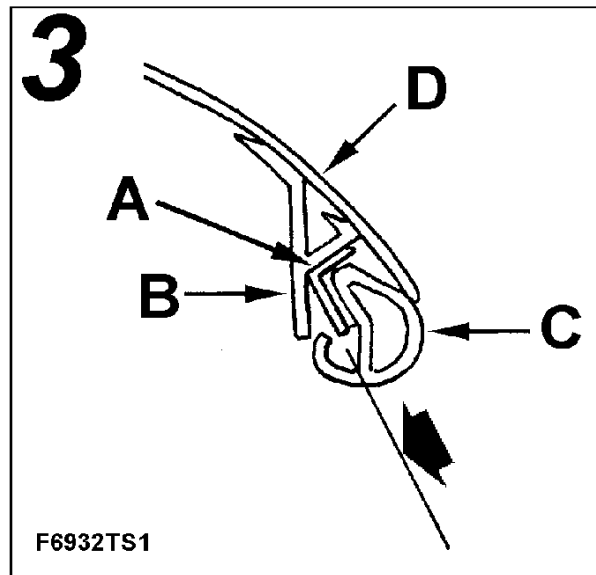
Part Description:

These newly introduced 'soft solid' type seals are fitted with special support brackets to improve seal profile and enhance glass to seal fit.



1. Remove and discard old seals along with fixings. Clean any remaining adhesive from the base of each B-Post and the front corners of hardtop where previous seals were attached.
2. Pre-assemble the new cantrail seals by pressing the brackets *illustration 2 (A)* onto the seal fir tree fixings by hand in the positions shown.
3. Press on additional fibre washers (*B*) to each B-Post bracket fixings (shorter bracket of two).
4. Fit seal assemblies to hardtop by pressing fixings into their original locations, start at the 3rd fixing up from the B-Post. Referring to *illustration 3*, ensure that brackets (*A*) all register against the inner panel (*B*), this will then provide the correct profile between seal (*C*) and hardtop roof (*D*). Ensure also that cantrail seal run is free from indentations.

5. Apply a small amount of Loctite 406 adhesive to the contact side of the flip seal at base of B-post and glue into position. *Important*; ensure that a good profile around lower corner is maintained see illustration 4(A).
6. Apply a small amount of Loctite 406 adhesive to the contact side of the flip seal, top of A-post, and glue to the front of the hardtop. *Important*; ensure outer lip section of seal (B), is pushed in at sides and that a good profile is maintained around front corner (C). Approximately 5mm of seal flip should be visible beyond the front forward edge (D).



Action 3:

Early vehicles with foam type deck seal, prior to Vin 014487 will require updating to the later 'D' section seal part number DSF101140 PMD.

Note: Some vehicles up to this Vin may already have been updated and may not require action.

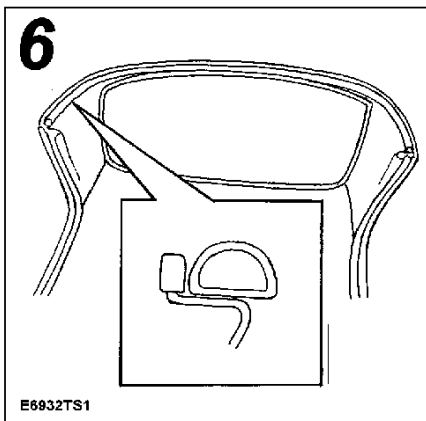
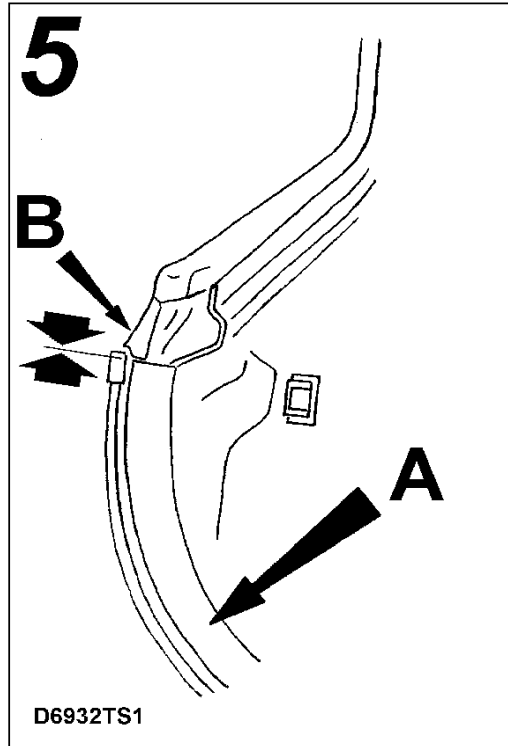
Part Description:

The later 'D' section seal is a service part only and must only be fitted to vehicles up to hardtop serial number F493. This seal will provide sufficient clearance between hardtop and tonneau deck to prevent direct contact.

1. Completely remove and discard old foam seal and any remaining adhesive and road dirt from hardtop.
2. Wipe the hardtop seal path with Loctite solvent 7063, this should also loosen any difficult to remove adhesive.
3. Obtain new seal part number DSF101140 PMD and wipe entire length of seal with Loctite 7063 paying particular attention to the flat of the 'D' section. Apply 2 continuous beads of Loctite 406 adhesive and apply to the hardtop moulding seal path.

Warning: Loctite 406 will bond skin in seconds, take care when using.

5. Apply the seal *illustration 5 (A)* to the hardtop. Begin at one side by butting up seal end to the flip tail of the cantrail seal *(B)*. While ensuring that continuous contact is made between the flat section of seal and its mating face of the hardtop *illustration 6 (inset)*, continue to apply until it over laps the cantrail seal on the opposite side. Using a sharp knife, trim off surplus seal so that a good 'butt' joint is obtained. Apply firm pressure to seal to ensure a good bond is made.



Note: Loctite 406 is a cyanoacrylate instant adhesive intended for use on rubber and plastics, obtainable in 20g dispensers. Loctite 7063 is an oil and grease solvent obtainable in 400 ml spray cans. Loctite products can be obtained via local Loctite distributors world wide (UK telephone number 01707 331277).

Re-fitting hardtop and adjusting catches:

- Re-position hardtop to vehicle:
- Re-clamp header catches to ensure that hardtop is pulled fully forward.
- Adjust the catch clamps *illustration 1 (C)*, in the same way as previous catches until secure.

- Check that adequate clearance exists between hardtop rear rim and the tonneau deck. If not satisfactory see note below.

Note: The rear catch height adjusters are pre-set and should not require further adjustment. However if insufficient clearance exists, the adjuster foot may be screwed up or down with an open ended spanner until acceptable.

Conclusion:

The cantrail seal assemblies which are non adjustable should now match the door glass profile. If gaps are visible **do not** attempt to adjust glass to match hardtop. Instead remove hardtop again and check glass fit to soft top, if the glass profile to seals do not match, re-adjust glass until correct (see Tech Bulletin 0013).

PARTS INFORMATION:

DSF101140 PMD - Seal hardtop

DXW 100200PMA - Catch rear.....2 off required

DYQ 100340 - Rivet (rear catch) 4 off required

DSF 101280PMD - Seal cantrail (RH)

DSF 101290PMD - Seal cantrail (LH)

DSZ 100160 - Seal bracket (cantrail).....2 off required

DSZ 100150 - Seal bracket (B-Post)....2 off required

EAM 6543 - Fibre washer.....4 off required

WARRANTY CLAIMS:

Use Complaint Code: 9W1C

Actions 1, 2 and 3

Use S.R.O.: 76.61.88/29

Time allowance: 1.70 Hrs

Actions 1 and 2 only (Use when hardtop seal has already been replaced)

Use S.R.O.: 76.61.88/30

Time allowance: 1.00 Hrs