

# Chapter 8

## Bodywork

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### Degrees of difficulty

**Easy**, suitable for novice with little experience



**Fairly easy**, suitable for beginner with some experience



**Fairly difficult**, suitable for competent DIY mechanic



**Difficult**, suitable for experienced DIY mechanic



**Very difficult**, suitable for expert DIY or professional



#### 1 General information

This Chapter covers the procedures necessary to remove and install the body parts. Since many service and repair operations on these motorcycles require the removal of the body parts, the procedures are grouped here and referred to from other Chapters.

In the case of damage to the body parts, it is usually necessary to remove the broken component and renew it (or replace it with a used one from a breaker). Note that there are however some companies that specialise in 'plastic welding' and there are a number of bodywork repair kits now available for motorcycles.

When attempting to remove any body panel, first study it closely, noting any

fasteners and associated fittings, to be sure of returning everything to its correct place on installation. In some cases the aid of an assistant will be required when removing panels, to help avoid the risk of damage to paintwork. Once the evident fasteners have been removed, try to withdraw the panel as described but **DO NOT FORCE IT** – if it will not release, check that all fasteners have been removed and try again. Where a panel engages another by means of tabs, be careful not to break the tab or its mating slot or to damage the paintwork. Remember that a few moments of patience at this stage will save you a lot of money in renewing broken fairing panels!

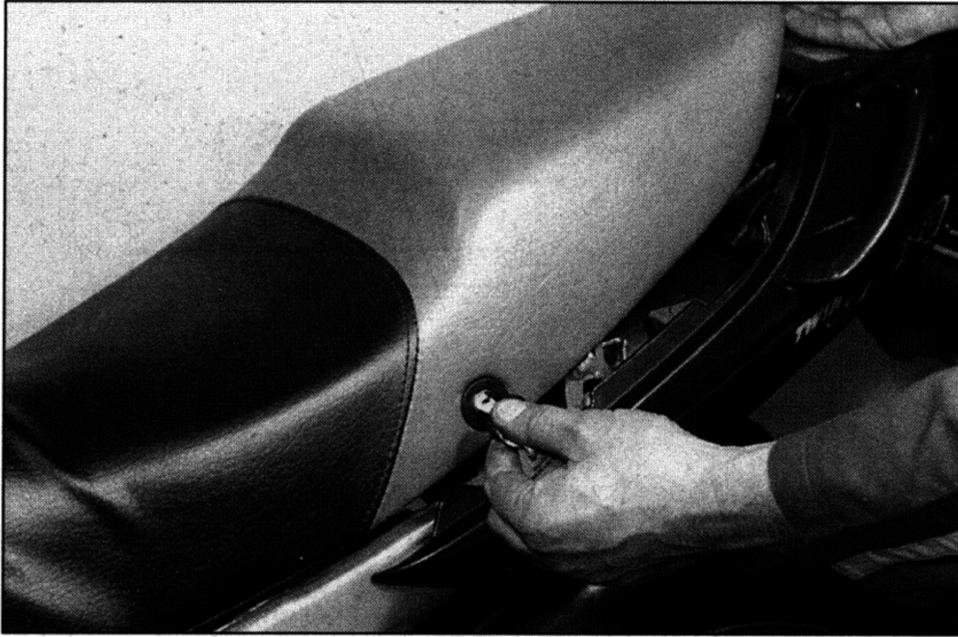
When installing a body panel, first study it closely, noting any fasteners and associated fittings removed with it, to be sure of returning everything to its correct place. Check that all fasteners are in good condition, including all trim nuts or clips and damping/rubber mounts;

any of these must be renewed if faulty before the panel is reassembled. Check also that all mounting brackets are straight and repair or renew them if necessary before attempting to install the panel. Where assistance was required to remove a panel, make sure your assistant is on hand to install it.

Tighten the fasteners securely, but be careful not to overtighten any of them or the panel may break (not always immediately) due to the uneven stress. Where quick-release fasteners are fitted, turn them 90° anti-clockwise to release them, and 90° clockwise to secure them.

**HAYNES**  
**HiNT**

*Note that a small amount of lubricant (liquid soap or similar) applied to mounting rubber grommets will assist pegs to engage without the need for undue pressure.*



2.2 Turn the key to release the latch



2.3 Make sure the seat locates correctly against the tank – peg-type (arrowed)

**2 Seat – removal and installation**

**1991 to 1995 TDM models**

1 Pull the sides of the seat away from the fuel tank to release the Velcro fastener or the pegs from the grommets.

2 Insert the ignition key into the seat lock located behind the rider's seat, and turn it clockwise to unlock the seat (see illustration). Remove the seat, noting how it fits.

3 Installation is the reverse of removal. Make sure the tab at the front of the seat locates correctly under the tank bracket. Make sure the Velcro fastens or the pegs locate correctly in their rubber grommets (see illustration). Push down on the rear of the seat to engage the latch.

**1996-on TDM models**

4 Insert the ignition key into the seat lock

located behind the rider's seat, and turn it clockwise to unlock the seat. Remove the seat, noting how it fits.

5 Installation is the reverse of removal. Make sure the tabs at the front of the seat locate correctly under and on the back of the tank. Push down on the rear of the seat to engage the latch.

**TRX models**

6 Insert the ignition key into the seat lock located below the side cover on the left-hand side, and turn it clockwise to unlock the passenger seat (see illustration). Remove the seat, noting how it fits.

7 Pull back the latch at the back of the rider's seat and remove the seat, noting how it fits (see illustration).

8 Installation is the reverse of removal. Make sure the tabs at the front of the rider's seat locate correctly under the tank bracket, then push down on the back of the seat to engage the latch. Make sure the hooks on the front of the passenger seat locate correctly under the

hooks, then push down on the rear of the seat to engage the latch.

**XTZ models**

9 Remove the side covers (see Section 3).

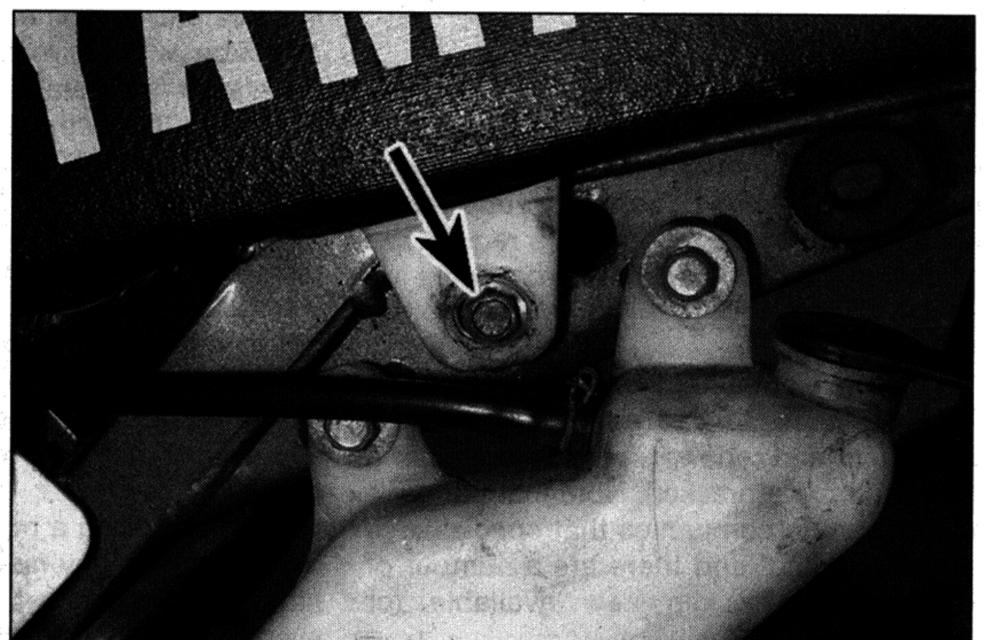
10 Unscrew the bolt securing each side of the seat and remove the seat, noting how it fits (see illustration).



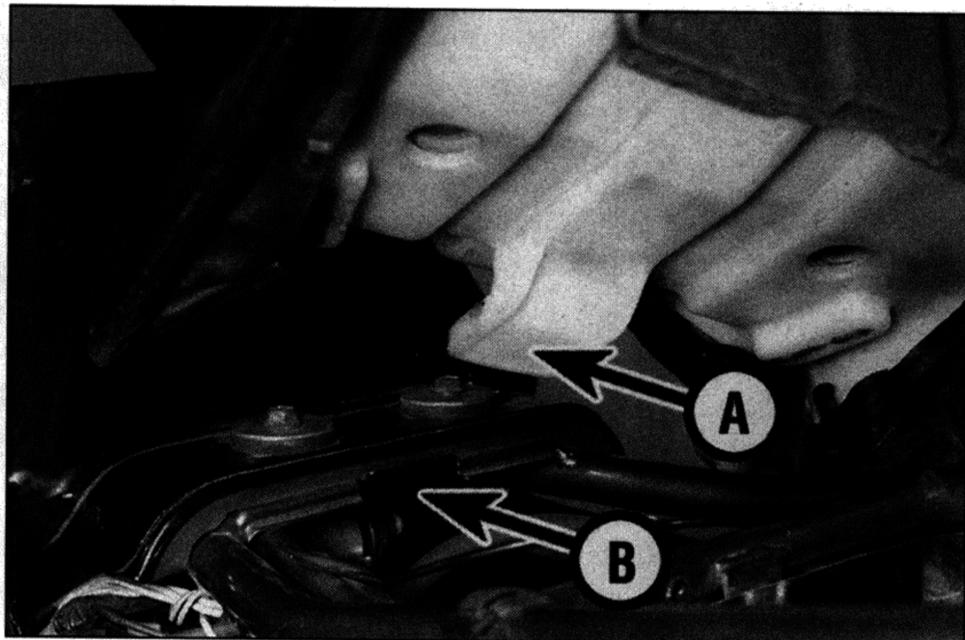
2.6 Turn the key in the lock (arrowed) and remove the passenger seat



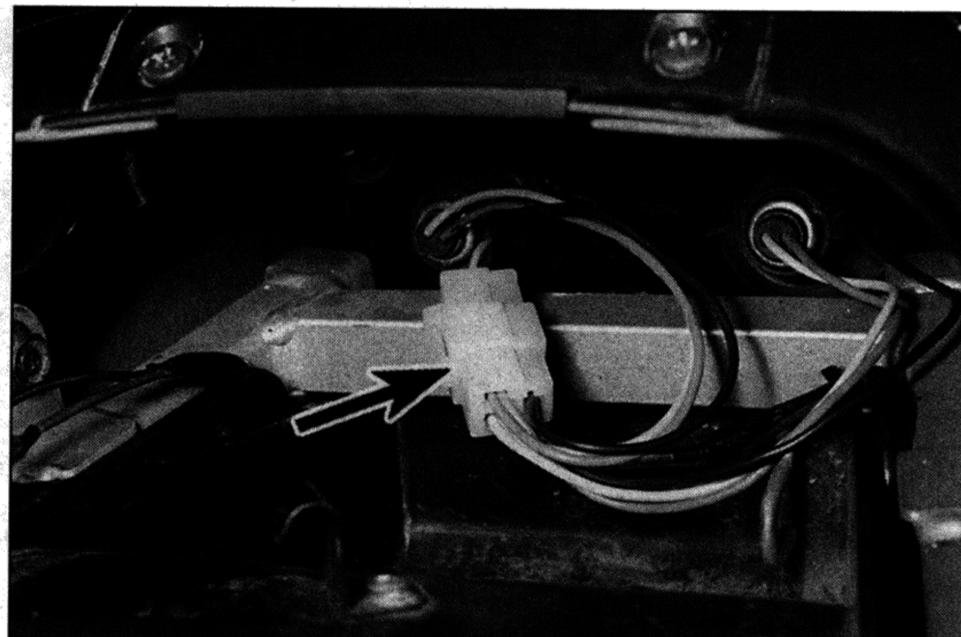
2.7 Pull back the latch to release the rider's seat



2.10 Unscrew the bolt on each side (arrow) and remove the seat



2.11 Locate the tab (A) under the bracket (B)



3.1 Disconnect the tail light wiring connector (arrowed)

11 Installation is the reverse of removal. Make sure the tab at the front of the seat locates correctly under the tank bracket, then tighten the bolts securely (see illustration).

**3 Side covers – removal and installation**



**TDM models**

1 Remove the seat (see Section 2). Disconnect

the tail light wiring connector (see illustration).  
 2 Unscrew the four bolts securing the side cover assembly to the frame (see illustration). Carefully pull each side away from the frame at the front to release the clips from the grommets (see illustration). Carefully lift one side up to clear the frame then remove the assembly along with the tail light (see illustration).  
 3 Installation is the reverse of removal.

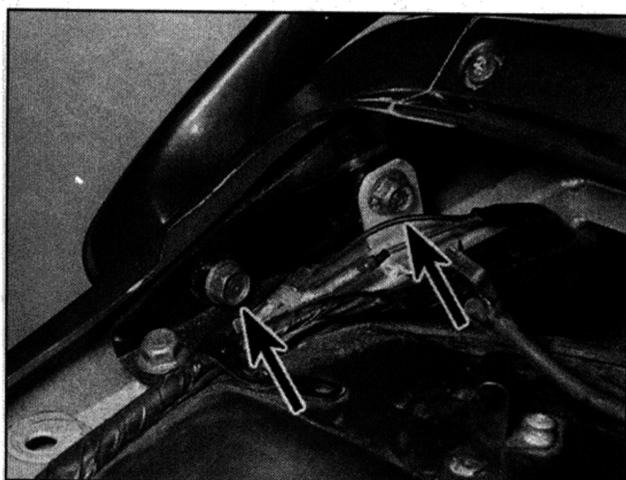
**TRX models**

4 Remove the seats (see Section 2).

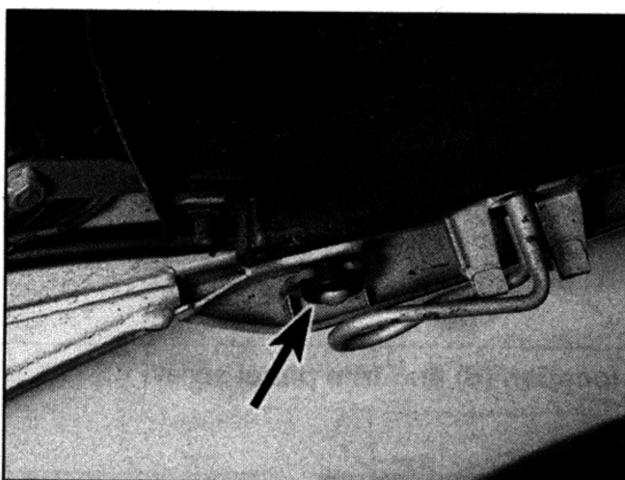
5 Remove the six screws securing the side cover assembly (see illustration). Carefully lift one side up to clear the frame then remove the assembly (see illustration).  
 6 Installation is the reverse of removal.

**XTZ models**

7 Remove the screw securing the side cover (see illustration). Carefully pull the cover away from the frame to release the pegs from the grommets, one at each end of the cover (see illustration).  
 8 Installation is the reverse of removal.



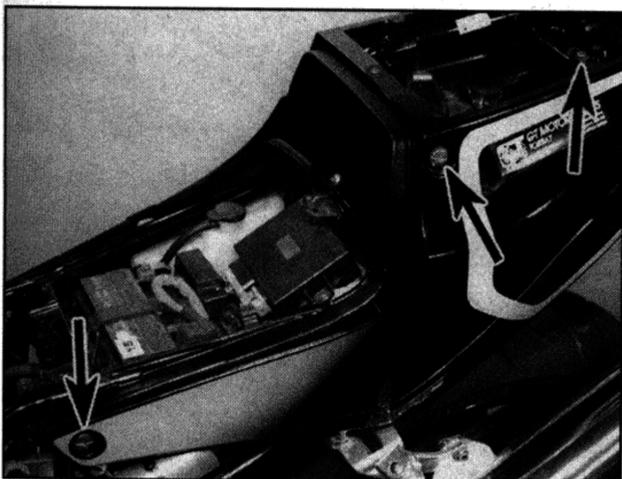
3.2a Unscrew the two bolts (arrowed) on each side ...



3.2b ... then release each clip from its grommet (arrow) ...



3.2c ... and remove the side cover assembly



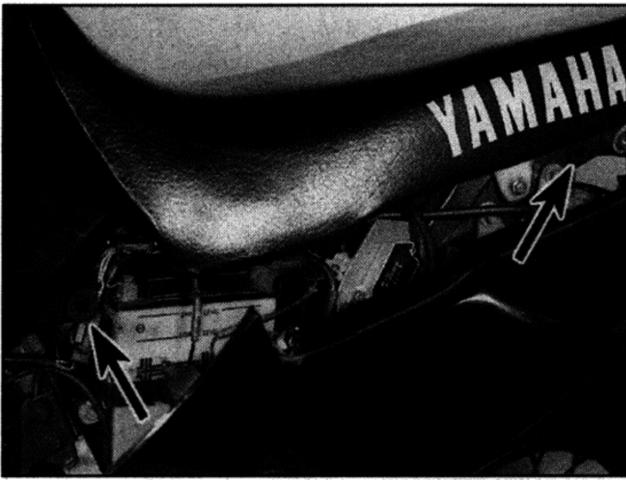
3.5a Remove the three screws (arrowed) on each side ...



3.5b ... and remove the side cover assembly



3.7a Remove the screw (arrowed) ...



3.7b ... then draw the cover away to release the pegs from the grommets (arrowed)



4.1a Remove the four screws (arrowed) ...



4.1b ... and remove the panel

**4 Fairing side panels – removal and installation**

**1991 to 1995 TDM models**

1 Remove the four screws securing the side panel and carefully manoeuvre the panel away, noting how it fits (see illustrations).

2 Installation is the reverse of removal.

**1996-on TDM models**

3 Remove the three screws securing the side panel, then carefully draw the panel away to release the peg from the grommet (see illustration).

4 If required, remove the single screw securing the side trim panel and remove the

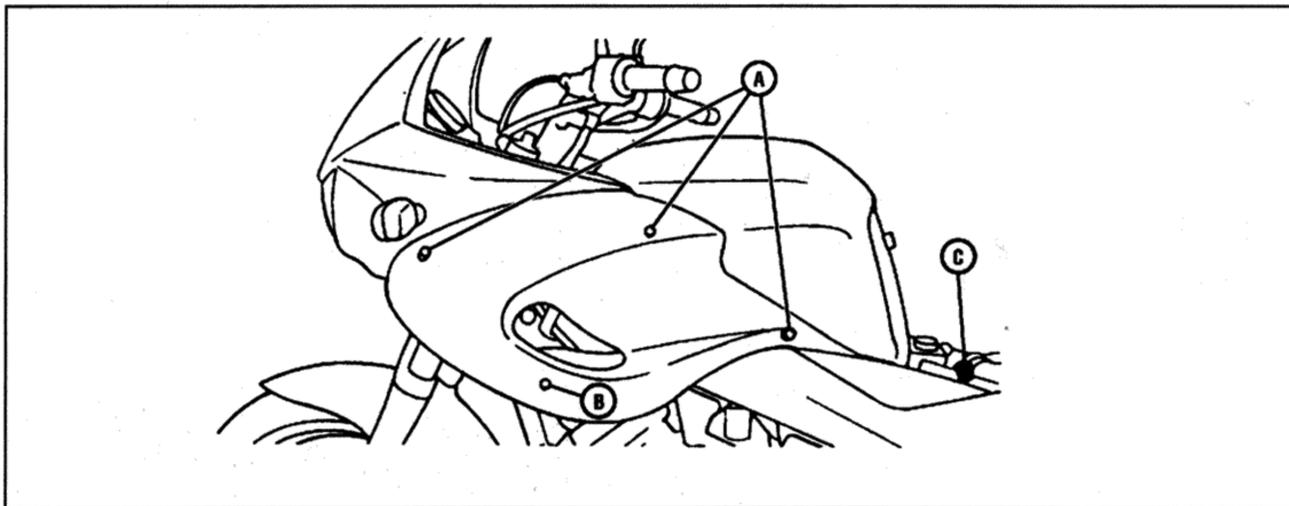
panel, noting how it locates onto the lug on the frame.

5 Installation is the reverse of removal.

**XTZ models**

6 Remove the seven screws securing the side cover (see illustration). Carefully release the slot at the bottom from the tab, then release the tabs at the top from the fairing and remove the panel (see illustrations).

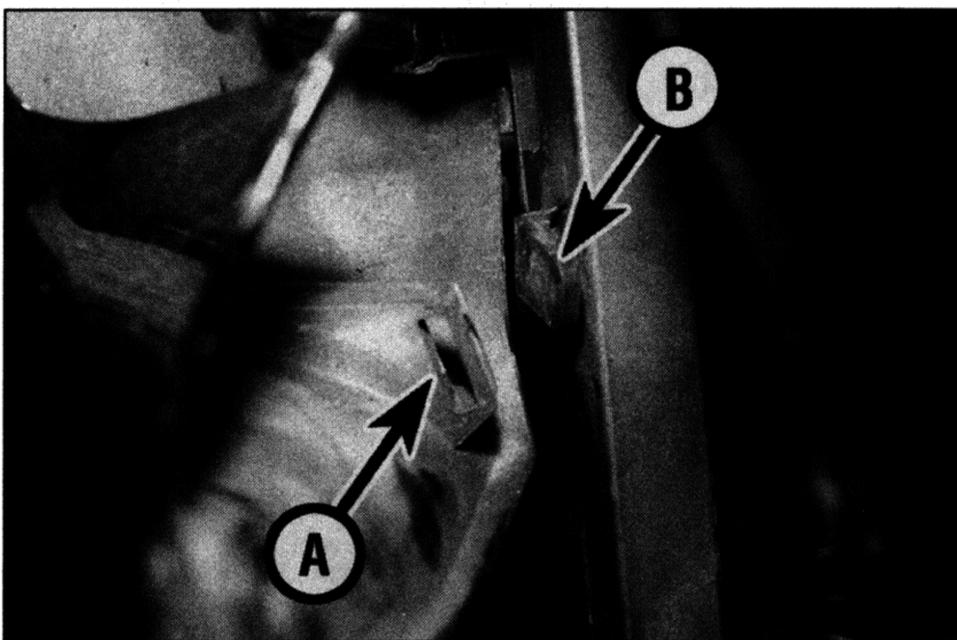
7 Installation is the reverse of removal.



4.3 Fairing side panel screws (A), peg location (B) and trim panel screw (C)



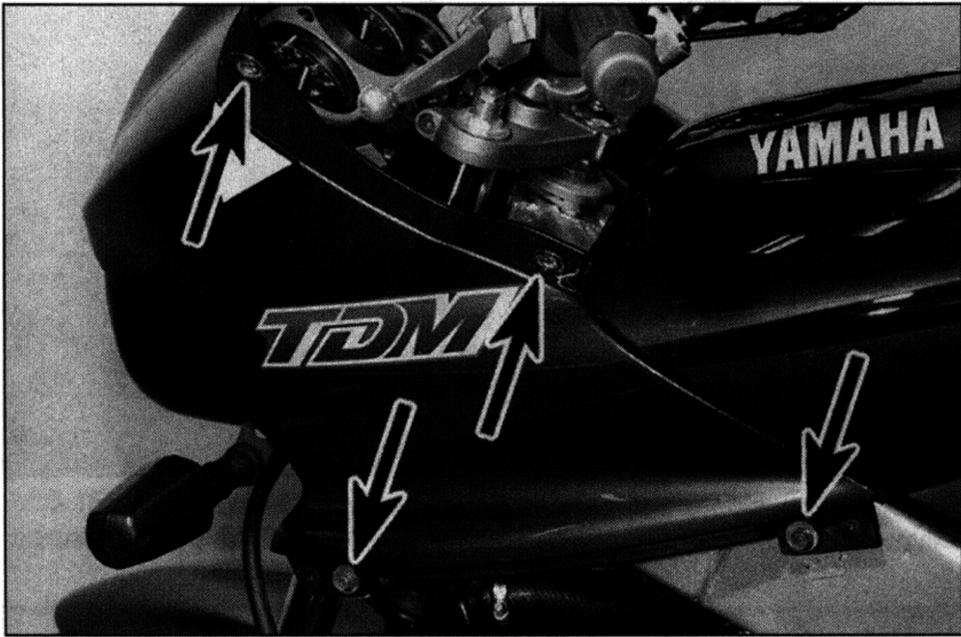
4.6a Remove the screws (arrowed) ...



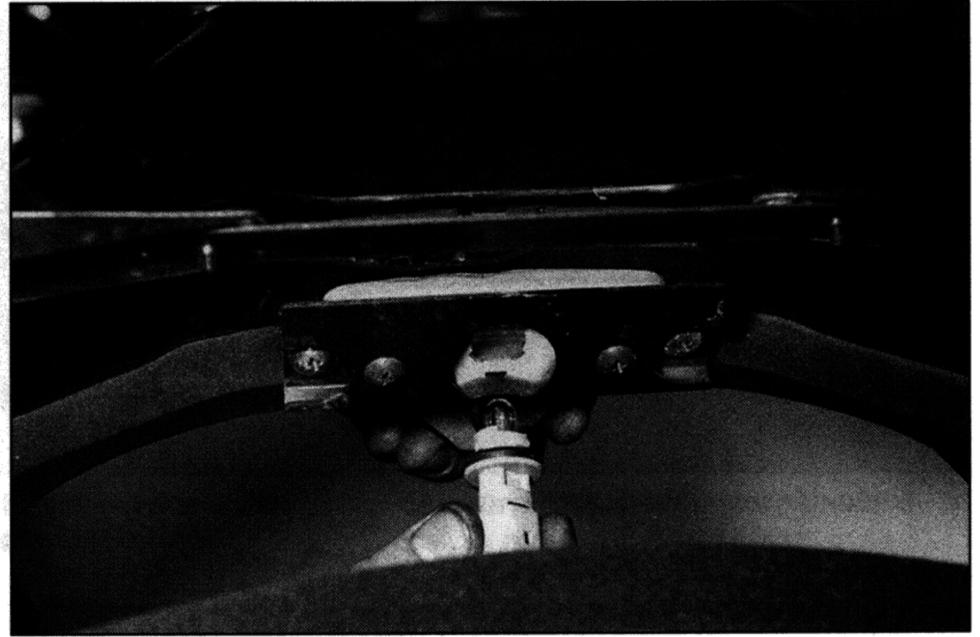
4.6b ... then release the slot (A) from the tab (B) on the frame ...



4.6c ... and the tabs (arrowed) from the slots in the fairing



5.2a Remove the screws and bolts (arrowed) . . .



5.2b . . . then draw the fairing forward and remove the auxiliary light bulbholder . . .

**5 Fairing – removal and installation**



**1991 to 1995 TDM models**

**Removal**

1 Remove the fairing side panels (see Section 4).  
 2 Remove the two screws and two bolts securing the fairing (see illustration) on each side. Carefully draw the fairing up and forward until the auxiliary light bulbholder becomes accessible, then remove it from the auxiliary light and remove the fairing (see illustrations).

**Installation**

3 Installation is the reverse of removal. Make sure the wiring connector is correctly and securely connected.

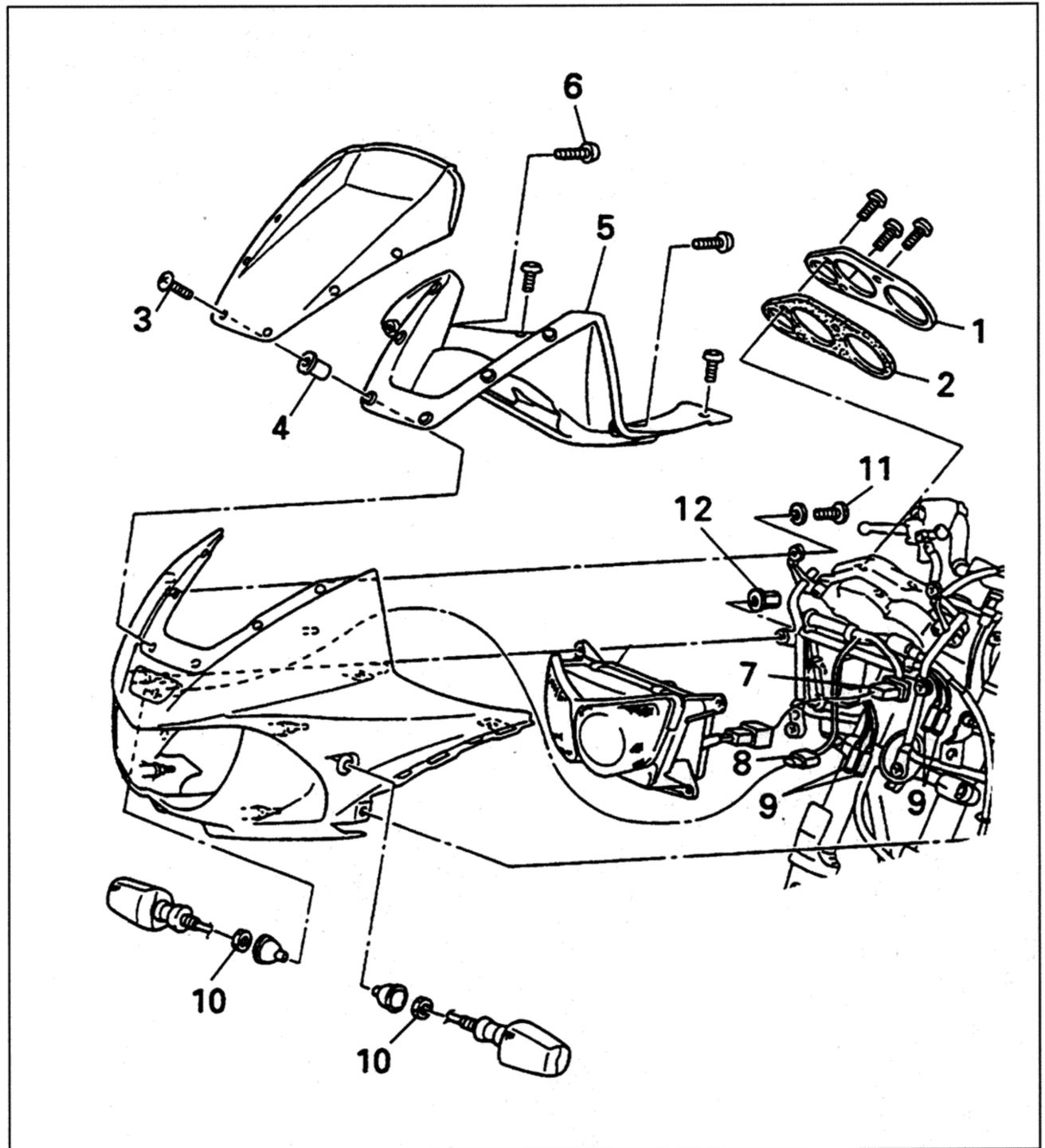
**1996-on TDM models**

**Removal**

4 Remove the fairing side panels (see Section 4). Remove the three screws securing the instrument cluster cover and remove the cover and the foam damper (see illustration).  
 5 Remove the screws securing the windshield and remove the windshield. Ease the rubber expanders out of the windshield mounting points in the fairing.

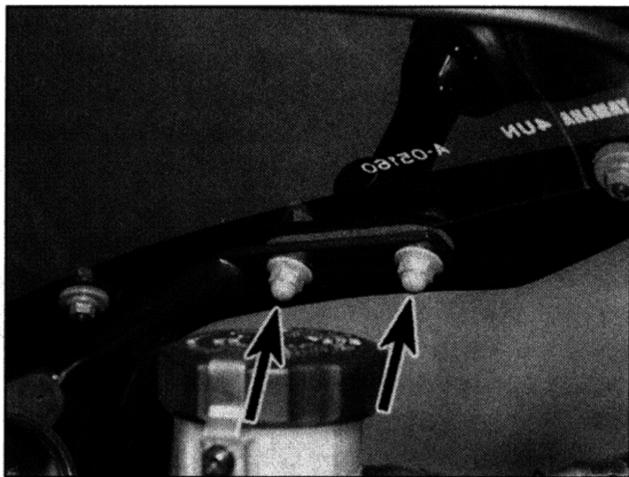


5.2c . . . and remove the fairing



**5.4 Fairing mountings**

- |                            |                             |                                   |
|----------------------------|-----------------------------|-----------------------------------|
| 1 Instrument cluster cover | 5 Cockpit trim panel        | 9 Turn signal connectors          |
| 2 Foam damper              | 6 Screw – 4 off             | 10 Turn signal retaining nuts     |
| 3 Windshield screw – 6 off | 7 Headlight connector       | 11 Fairing mounting screw – 2 off |
| 4 Rubber expander – 6 off  | 8 Auxiliary light connector | 12 Fairing mounting nut – 4 off   |



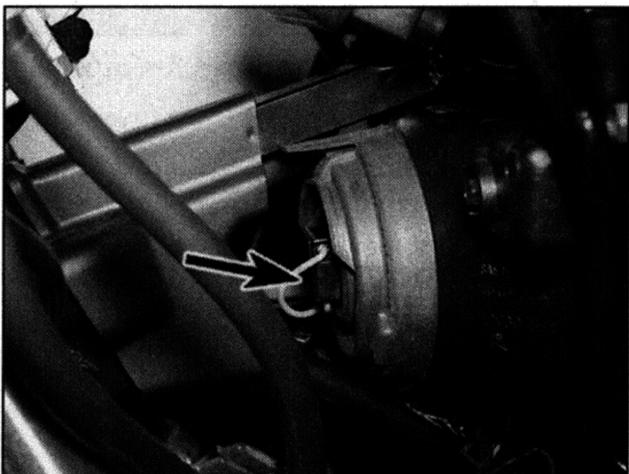
5.10a Unscrew the nuts (arrowed) ...



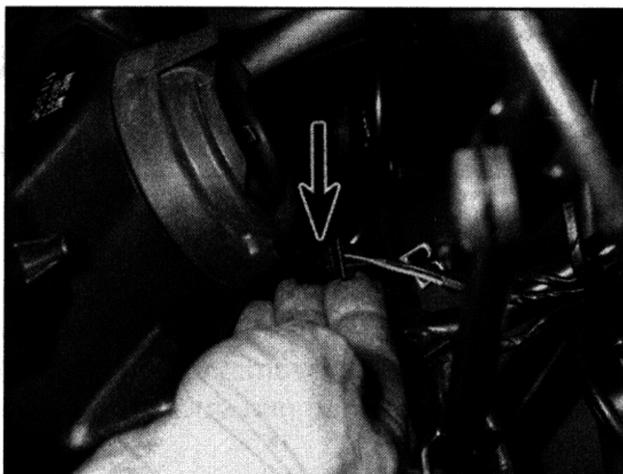
5.10b ... withdraw the screws and remove the mirrors ...



5.10c ... and the rubber pad



5.11a Disconnect the headlight wiring connector (arrowed) ...



5.11b ... the auxiliary light wiring connector (arrowed) ...



5.11c ... and the turn signal wiring connectors

6 Remove the remaining screws securing the cockpit trim panel and remove the panel.

7 Reach inside the fairing and disconnect the headlight, auxiliary light and turn signal wiring connectors. Unscrew the nut which retains each

turn signal to the fairing. Thread the nut off the wires and remove each turn signal assembly

8 Remove the two screws and the four nuts securing the fairing and headlight to the bracket. Carefully draw the fairing forward and

remove it along with the headlight. If required, lift the headlight out of the fairing.

#### Installation

9 Installation is the reverse of removal. Make sure the wiring connectors are correctly and securely connected. Check that the headlight, auxiliary light and turn signals are all working.

#### TRX models

##### Removal

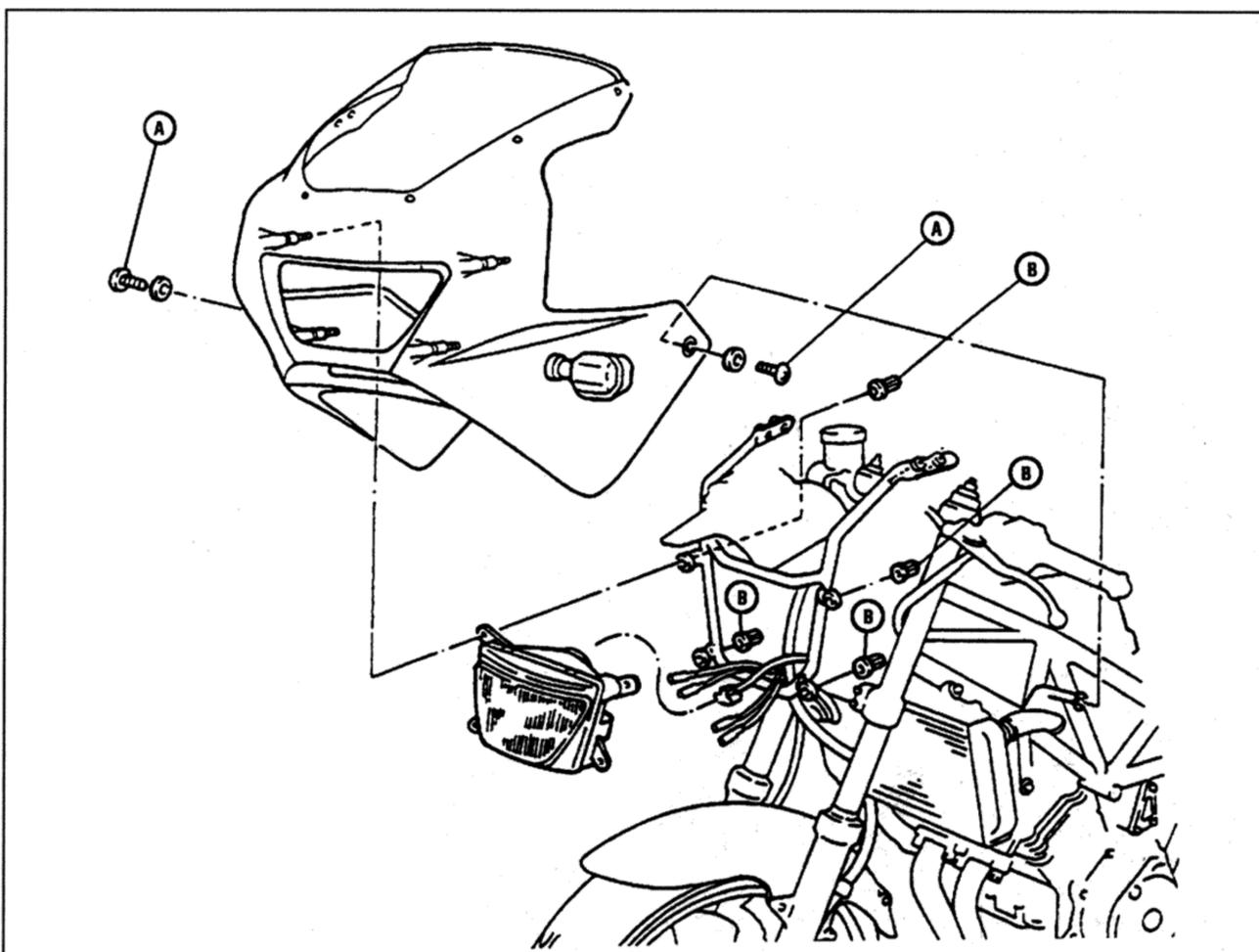
10 Unscrew the nuts securing the rear view mirrors to the fairing bracket and remove the mirrors along with the rubber pads (see illustrations).

11 Disconnect the headlight, auxiliary light and turn signal wiring connectors (see illustrations).

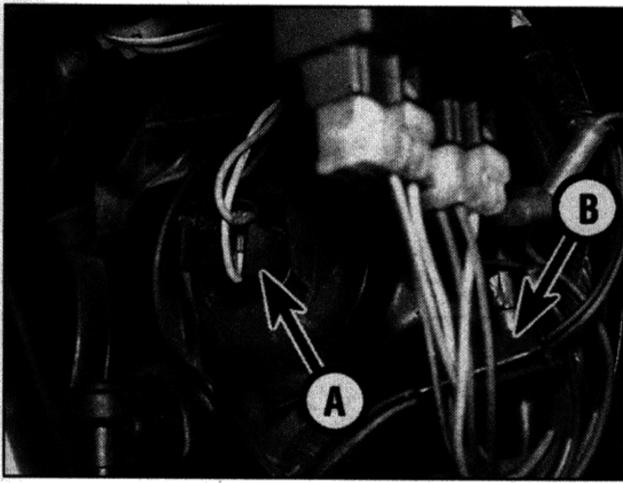
12 Remove the screw securing each side of the fairing and the four nuts securing the fairing and headlight to the bracket (see illustration). Carefully draw the fairing forward and remove it along with the headlight. If required, lift the headlight out of the fairing.

##### Installation

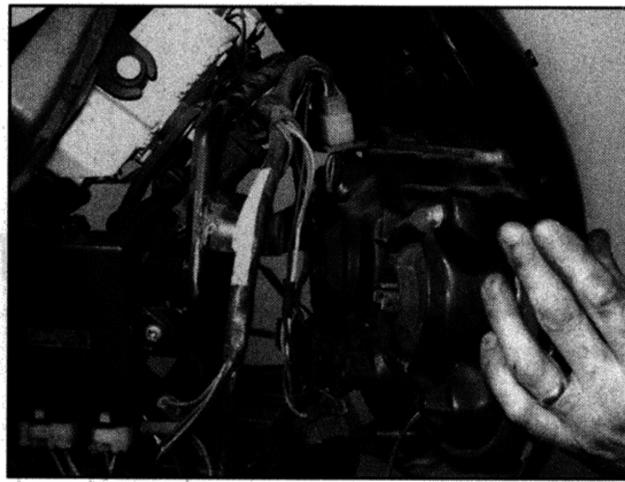
13 Installation is the reverse of removal. Make sure the arrow on each rubber pad for the mirror is on the outside and pointing forward (see illustration 5.10c). Make sure the wiring connectors are correctly and securely connected. Check that the headlight, auxiliary light and turn signals are all working.



5.12 Fairing mounting screws (A) and nuts (B)



5.15 Disconnect the headlight wiring connector (A) and the auxiliary light wiring connector (B) for each light



5.16 The headlight comes away with the fairing



6.2a On TDM models, note how the mounting brackets fit

**XTZ models**

**Removal**

14 Remove the fairing side panels (see Section 4).

15 Disconnect the headlight wiring connectors and the auxiliary light wiring connectors (see illustration).

16 Remove the three nuts securing the fairing and headlight to the bracket. Carefully draw the fairing forward and remove it along with the headlight (see illustration). If required, lift the headlight out of the fairing.

**Installation**

17 Installation is the reverse of removal.

Make sure the wiring connectors are correctly and securely connected. Check that the headlights and auxiliary lights are all working.

**6 Front mudguard – removal and installation**

**Removal**

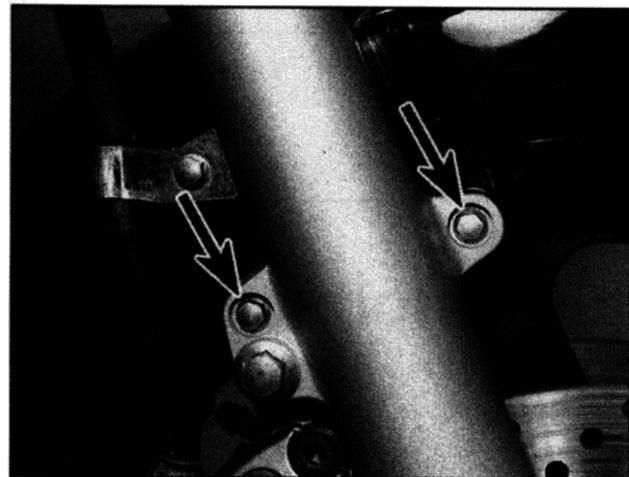
1 On 1991 to 1995 TDM models, unscrew the knurled ring securing the speedometer to the drive housing on the front wheel, then detach

the cable and draw it up through the guide on the mudguard.

2 Unscrew the four bolts securing the mudguard to the holder on each fork slider and remove the mudguard, noting how it fits (see illustrations).

**Installation**

3 Installation is the reverse of removal.



6.2b Mudguard mounting bolts (arrowed) – TRX models



6.2c On XTZ models, the bolts (arrowed) are on the inside of the fork leg

**7 Engine bashplate (1991–95 TDM and all XTZ) – removal and installation**

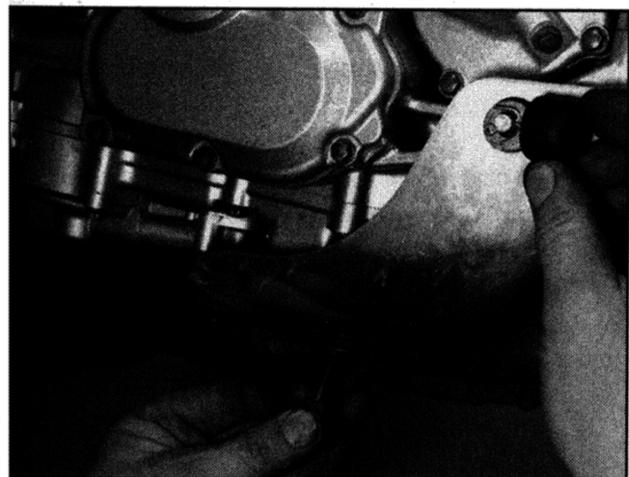
**Removal**

1 On TDM models, remove the cap from the end of the through-bolt, then remove the split pin and washer and withdraw the bolt (see illustration). Unscrew the two bolts on the bottom of the plate and remove the bashplate, noting how it fits.

2 On XTZ models unscrew the four bolts securing the bashplate to the frame and engine and remove the plate, noting how it fits (see illustrations).

**Installation**

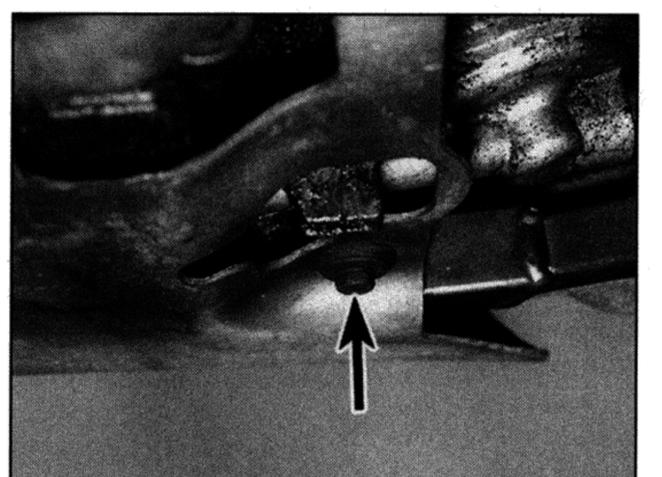
3 Installation is the reverse of removal.



7.1 Engine bashplate mountings – TDM models



7.2a The bashplate is secured by a bolt (arrowed) on each side at the front . . .



7.2b . . . and on each side underneath