

# Bodywork components

## Contents

Body panels - removal and installation	3	Rear mudguard - removal and installation	5
Front mudguard - removal and installation	4	Rear view mirrors - removal and installation	2
General information	1	Seat - removal and installation	6
Passenger grab-rail - removal and installation	7		

## 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 replace it with a new (or used) one. The material that the body panels are composed of doesn't lend itself to conventional repair techniques. There are however some shops that specialise in "plastic welding", so it may be worthwhile seeking the advice of one of these specialists before consigning an expensive component to the bin.

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 replacing 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 replaced if faulty before the panel is reassembled. Check also that all mounting brackets are straight and repair or replace 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.

Carefully settle the panel in place, following the instructions provided, and check that it engages correctly with its partners (where applicable) before tightening any of the fasteners. Where a panel engages another by means of tabs, be careful not to break the tab or its mating slot. Note that a small amount of lubricant (liquid soap or similar) applied to the mounting rubbers of the side panels will assist the panel retaining pegs to engage without the need for undue pressure.

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.

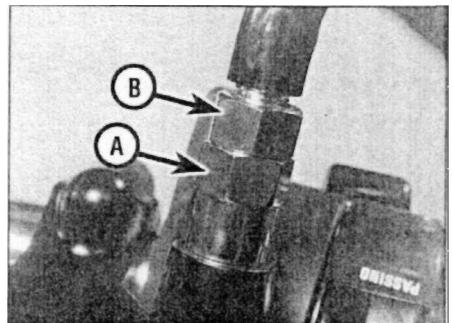
### 2 Rear view mirrors - removal and installation

#### Removal

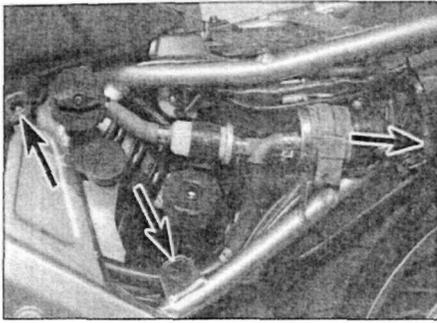
1 Unscrew the mirror from its mounting on the handlebar, using a suitable spanner on the lower nut to initially slacken it (see illustration).

#### Installation

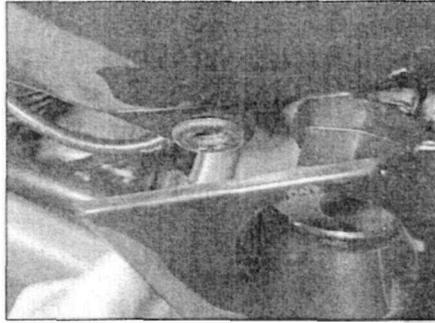
2 Install the mirror into its mounting and screw it in until it is fully home. If the position of the mirror is not as required, counter-hold the lower nut on the stem and slacken the top nut. Adjust the mirror as required, then tighten the top nut whilst counter-holding the mirror.



2.1 Mirror mounting nut (A) and locknut (B)



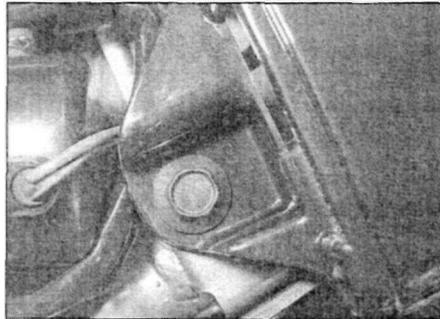
3.2a Side panel mounting points (arrows)



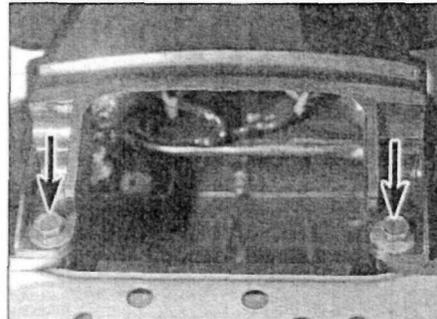
3.2b Release the panel from its pegs . . .



3.2c . . . draw it forward to release the tab



3.5a The rear cowl is secured by a bolt on each side . . .



3.5b . . . and two at the rear (arrows)

### 3 Body panels - removal and installation



*A smear of liquid soap (washing-up liquid is ideal) applied to the mounting grommets will help the side panel pegs engage without the need for undue pressure.*

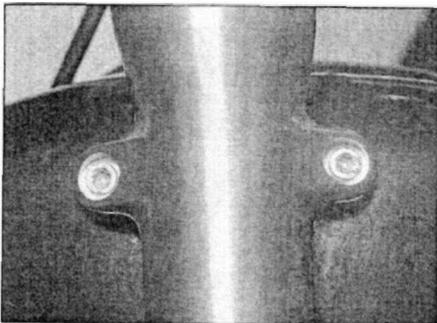
#### Side panels

##### Removal

- 1 Remove the seat (see Section 6).
- 2 The side panels are secured by two pegs at the front which fit into rubber grommets, and a tab at the rear which locates into the front of the rear cowl (see illustration). Gently pull the panel away from the frame to release the pegs, then draw it forwards to release the tab from the rear cowl (see illustrations). Do not force or bend the panel while removing it.

##### Installation

- 3 Installation is the reverse of removal.



4.2 Front mudguard mounting bolts



4.4a Note the fitting of the brake hose clamp (arrow)



4.4b Pass the speedometer cable through its guide

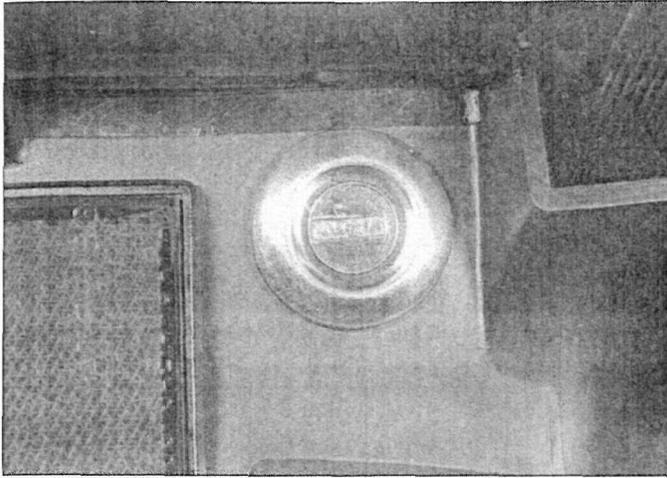
### 4 Front mudguard - removal and installation

#### Removal

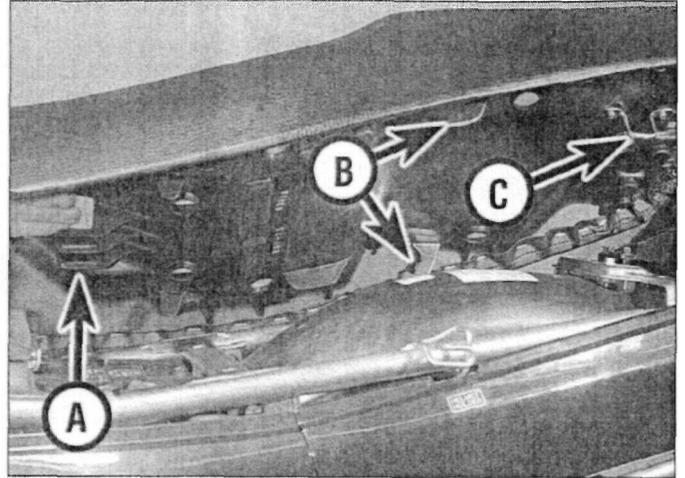
- 1 Remove the front wheel (see Chapter 7).
- 2 Remove the screws securing the sides of the mudguard to the forks, noting the position of the brake hose clamp (see illustration). Withdraw the speedometer cable from its guide on the mudguard.
- 3 Carefully remove the mudguard by sliding it downwards until it clears the bottom of the forks.

#### Installation

- 4 Installation is the reverse of removal. Make sure the brake hose and speedometer cable are correctly routed and secured by their clamps (see illustrations).



6.1 The seat lock is below the tail light



6.2 Note the tab (A), the side hooks (B), and the lock latch (C) which secure the seat

### 5 Rear mudguard - removal and installation

#### Removal

- 1 The rear mudguard comes in two sections. The front section is mounted to the frame rails under the seat and incorporates the battery case. The rear section is mounted to the end of the frame and incorporates the rear tail light assembly and the rear turn signal assemblies, and has the licence plate mounted to it.
- 2 Remove the seat (see Section 6), the battery (see Chapter 9), the rear cowl (see Section 3), the passenger grab-rail (see Section 7), the tail light assembly (see Chapter 9) and the rear turn signal assemblies (see Chapter 9). Also move aside all ancillary components such as the fuel pump and the various electrical components attached to the rear mudguard (see Chapter 9), the rear brake

- fluid reservoir (see Chapter 7), and the ignition control unit (see Chapter 5).
- 3 Remove all clips and bolts securing the rear mudguard sections and remove them from the frame.

#### Installation

- 4 Installation is the reverse of removal.

### 6 Seat - removal and installation

#### Removal

- 1 Insert the ignition key into the seat lock which is located below the tail light assembly and turn it clockwise to unlock the seat (see illustration).
- 2 Lift the rear of the seat and draw it back and away from the bike. Note how the tab at the front of the seat locates under the fuel

- tank mounting bracket, and how the seat locates onto the frame rail (see illustration).

#### Installation

- 3 Locate the tab at the front of the seat under the fuel tank mounting bracket. Align the seat at the rear and push down on it to engage the latches (see illustration).

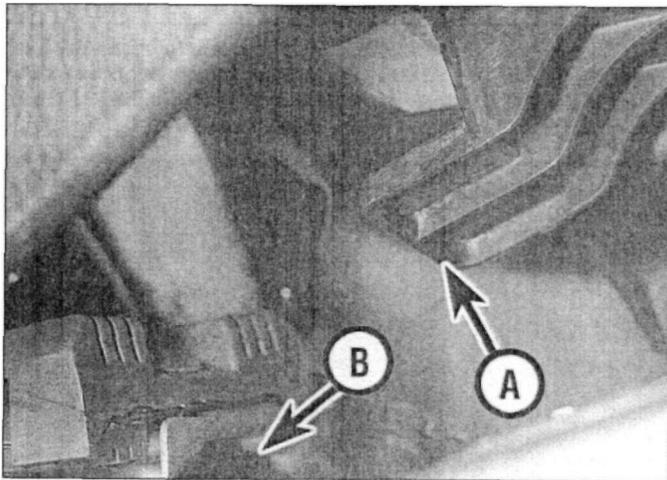
### 7 Passenger grab-rail - removal and installation

#### Removal

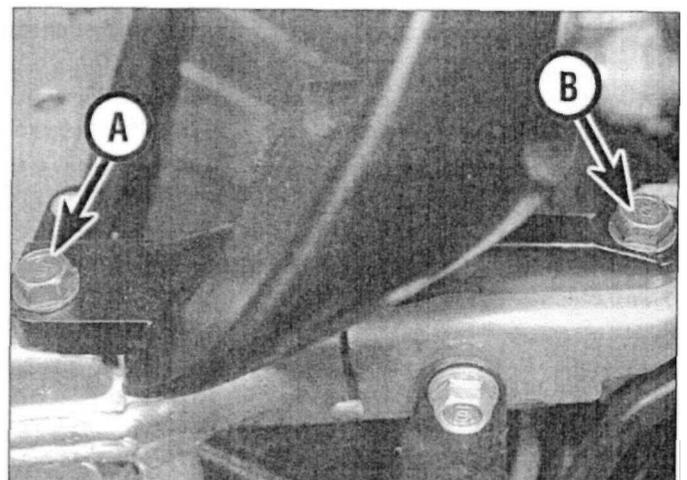
- 1 Remove the seat (see Section 6).
- 2 Remove the rear cowl (see Section 3).
- 3 Unscrew the four bolts securing the grab-rail to the frame and remove the grab-rail (see illustration).

#### Installation

- 4 Installation is the reverse of removal.



6.3 Locate the tab (A) under the fuel tank bracket (B)



7.3 The grab-rail is secured by a bolt on each side at the front (A), and at the back (B)