

Chapter 8

Bodywork

Contents

Fairing and body panels - removal and installation.	3	Rear view mirrors - removal and installation.	4
Front mudguard - removal and installation.	6	Seat - removal and installation.	2
General information	1	Windshield - removal and installation.	5

Degrees of difficulty

Easy, suitable for novice with little experience	jk g^	Fairly easy, suitable for beginner with some experience	jk ^	Fairly difficult, suitable for competent DIY mechanic	jk 5^ ^jS	Difficult, suitable for experienced DIY mechanic	jk 3^ jS	Very difficult, suitable for expert DIY or professional	^ 2^ ^
--	----------	---	---------	---	-----------------	--	----------------	---	--------------

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.

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.



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

2 Seat-removal and installation

Removal

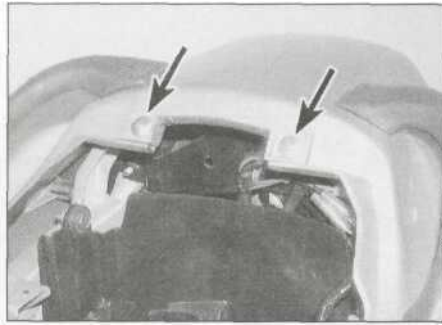
- 1 On YZF models, insert the ignition key into the seat lock located under the left-hand side of the seat cowling, and turn it clockwise to unlock the seat. Lift up the back of the seat and draw it rearwards, noting how the tab locates in the bracket (**see illustration**).
- 2 On FZS models, insert the ignition key into the seat lock located in the left-hand side



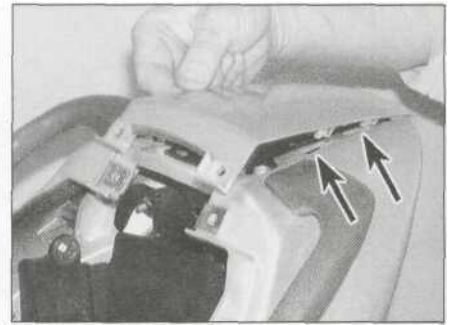
2.1 On YZF models, turn the key to release the latch and lift the rear of the seat



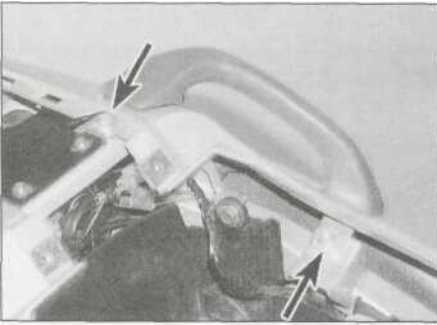
2.2 On FZS models, turn the key to release the latch and lift the front of the seat



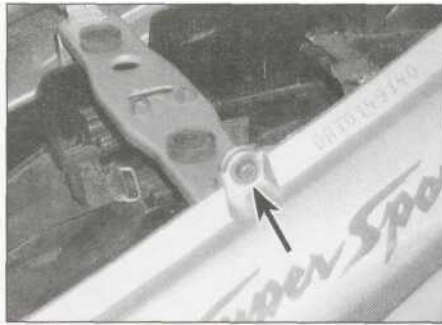
3.2a Remove the screws (arrowed)



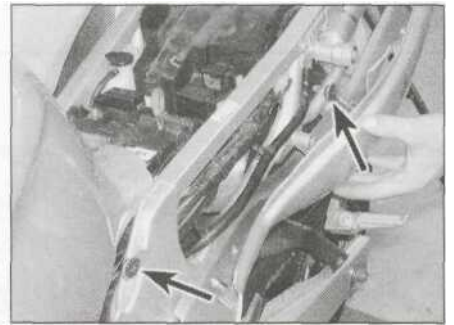
3.2b ... and remove the cover to release the tabs (arrowed)



3.3 Each grab-rail is secured by two bolts (arrowed)



3.4a Remove the screw (arrowed)...



3.4b ... then pull the panel away to free the lugs from the grommets (arrowed)

cover, and turn it clockwise to unlock the seat. Lift up the front of the seat and draw it forward, noting how the tab locates in the bracket (see illustration).

Installation

3 Installation is the reverse of removal. On YZF models, make sure the tabs at the front locate under each side of the fuel tank bracket. On FZS models, make sure the tab at the rear locates correctly under the bracket (see illustration 2.1 or 2.2). Push down on the seat to engage the latch.

3 Fairing and body panels - removal and installation

YZFmodels

Side covers

- 1 Remove the seat (see Section 2).
- 2 Remove the screws securing the taillight cover and remove the cover, noting how it fits (see illustrations).
- 3 Unscrew the two bolts securing each passenger grab-rail and remove them, noting

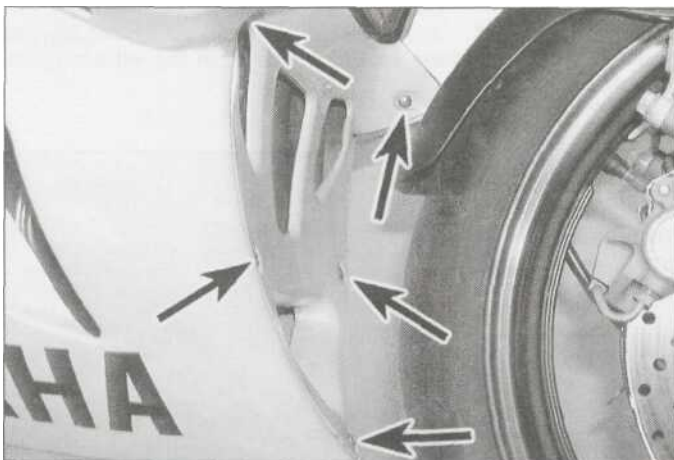
how they fit (see illustration).

4 Remove the screw securing the top of the cover, then carefully pull the front away from the frame to release the lugs from the grommets (see illustrations).

5 Installation is the reverse of removal.

Fairing side panels

6 Each panel can be removed individually. If both panels are being removed, remove one side as described, but when removing the other side, the centre panel can remain attached to it, if required. The centre panel can be removed on its own by removing its screws (see illustration).

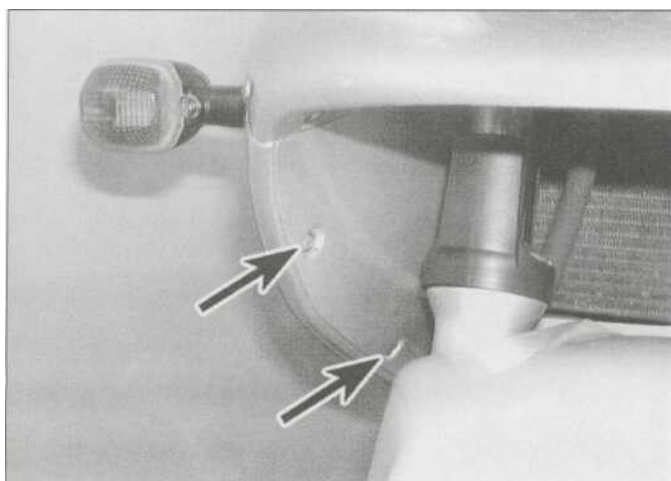


3.6 The centre panel is secured by three screws (arrowed) - if removing a side panel, remove the bottom screw and the middle screw on the side being removed



3.7 Each intake duct cover is secured by three screws (arrowed)

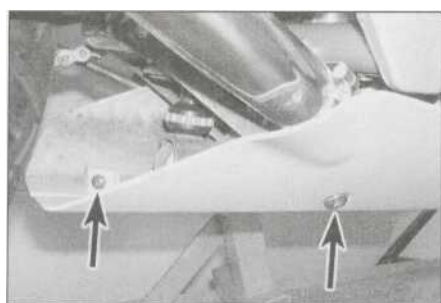




3.8 Remove the two screws (arrowed) securing the side panel to the inner panel



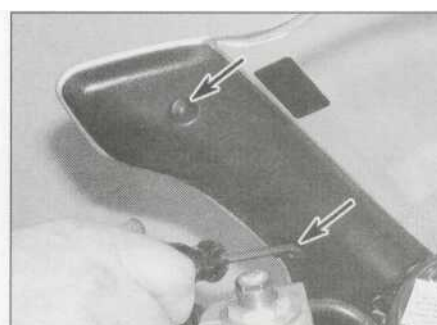
3.9a Remove the five screws (arrowed) securing the top and middle of the panel...



3.9b ... and the two screws (arrowed) securing the bottom of the panel at the back ...



3.9c ... and carefully remove the panel, noting how it fits



3.14 Each side trim panel is secured by two screws (arrowed)

7 Remove the three screws securing the intake duct cover and remove the cover, noting how it fits, then disconnect the turn signal wiring connectors (**see illustration**).

8 Remove the two screws securing the side panel to the centre panel (**see illustration 3.6**), and the two screws securing the side panel to the fairing inner panel (**see illustration**).

9 Remove the seven screws securing the panel, then carefully draw it away, noting how it engages with the fairing along its top edge and the other side panel along its bottom edge (**see illustrations**).

10 If both panels are being removed, first

remove the right-hand panel as described above. Now remove the left-hand panel, but do not remove the two lower front screws which secure the side panel to the centre panel, and bring the centre panel away with the side panel. The rear screw joining the two panels will also have been removed when removing the first panel.

11 Installation is the reverse of removal. Make sure the tabs locate correctly with the fairing and other side panel.

Fairing

12 Remove the fairing side panels (see above).

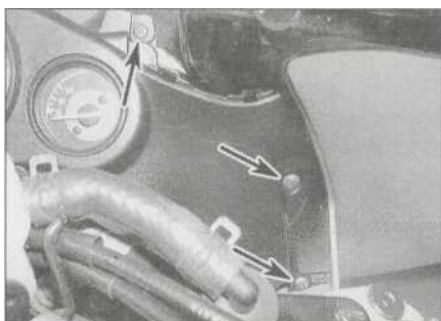
13 Remove the rear view mirrors (see Section 4).

14 Remove the two screws securing each side trim panel and remove the panels, noting how they fit (**see illustration**).

15 Remove the windshield (see Section 5).

16 Remove the screws securing the instrument cluster trim panel and remove the panel, noting how it fits (**see illustrations**).

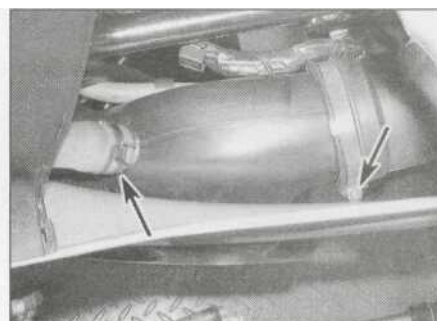
17 Release the clamps securing each surge tank to the air duct to the filter housing, and to the hose on the top - detach the hose (**see illustration**). Remove the three screws securing each surge tank - they will now come away with the fairing (**see illustration**).



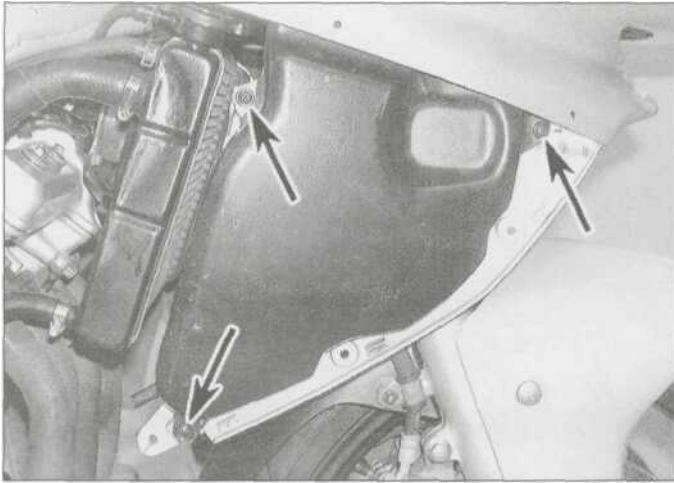
3.16a Remove the three screws (arrowed) on each side ..



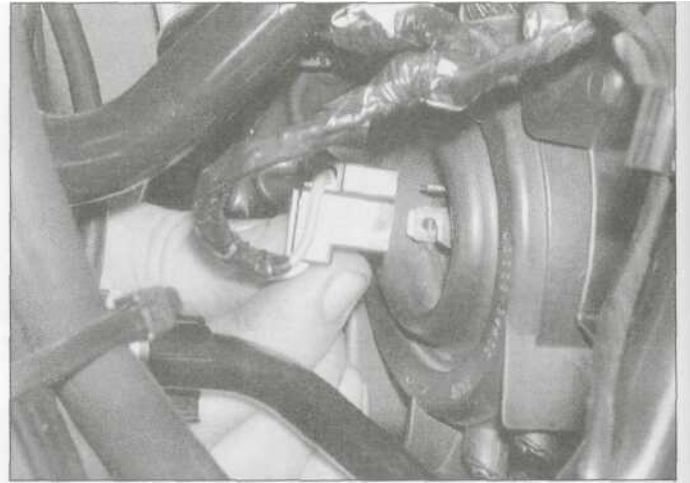
3.16b ... and remove the trim panel



3.17a Release the clamps (arrowed) and detach the top hose ...



3.17b ... then remove the screws (arrowed)



3.18a Disconnect the headlight wiring connector ..



3.18b ... and sidelight wiring connector



3.19 Free the speedometer cable from its guides



3.20 Draw the fairing forward off the bike

18 Disconnect the headlight and, on UK models, the sidelight wiring connectors (see illustrations).

19 Free the speedometer cable from the guides in the left-hand inner panel (see illustration).

20 Carefully draw the fairing forward, making sure nothing gets snagged, and remove it

from the bike, noting how it fits (see illustration).

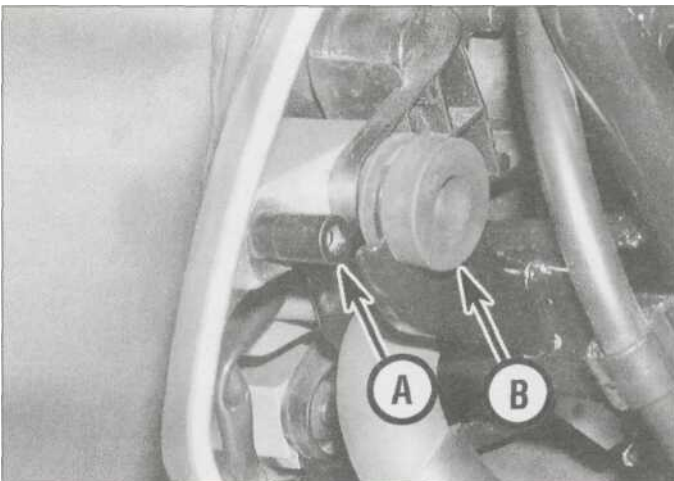
21 Installation is the reverse of removal. Make sure the lugs locate correctly into the rubber grommets in the mountings (see illustration). Make sure the wiring connectors are correctly and securely connected.

FZS models

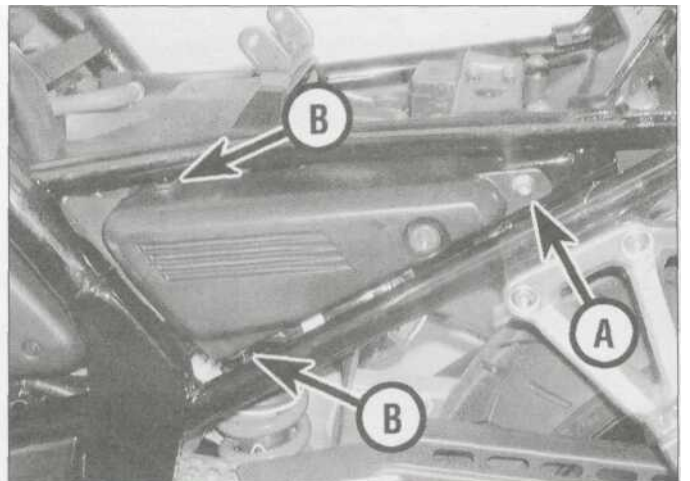
Side covers

22 Remove the screw securing the rear of the cover, then carefully pull the front away from the frame to release it from the grommets (see illustration).

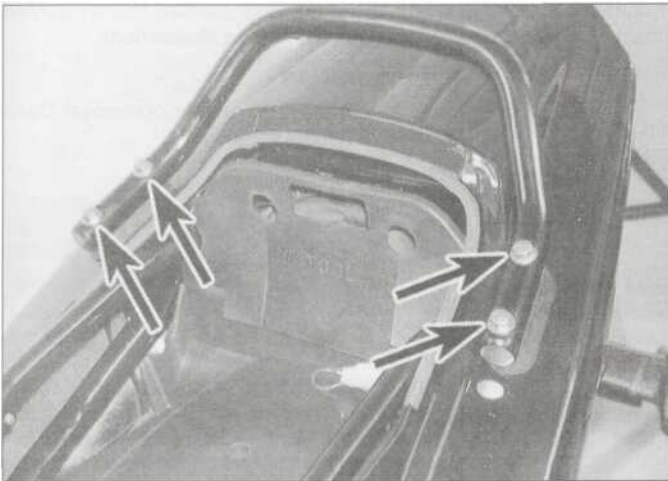
23 Installation is the reverse of removal.



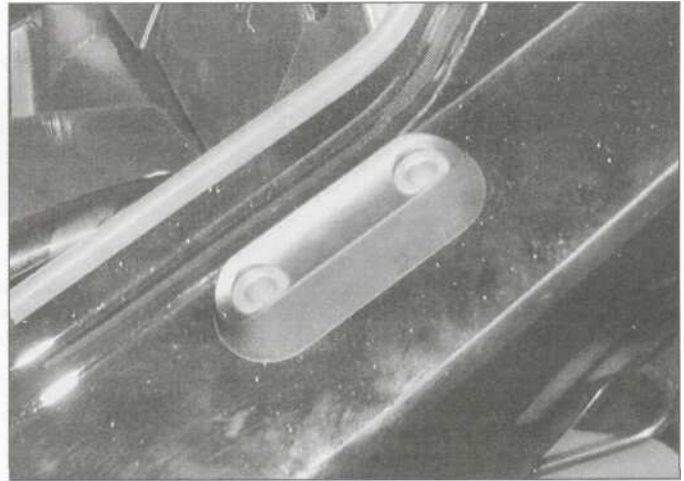
3.21 Locate the pegs (A) in the grommets (B)



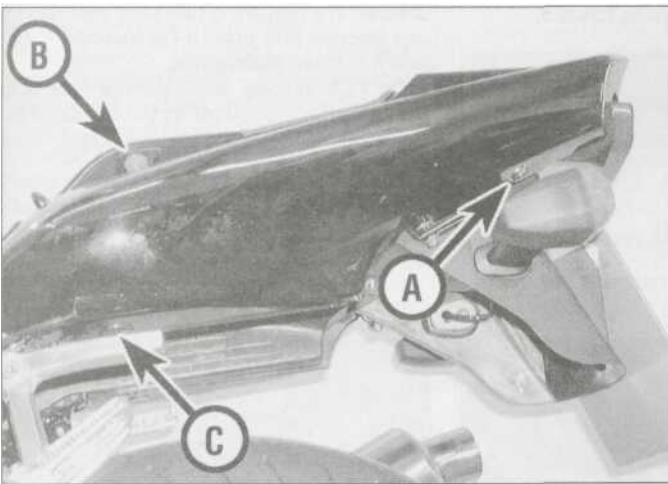
3.22 Remove the screw (A) and free the panel from the grommets (B)



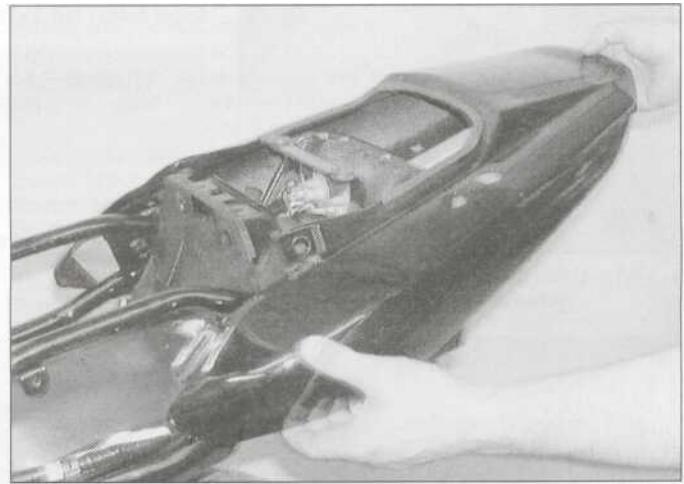
3.25a Unscrew the bolts (arrowed) and remove the grab-rail. ..



3.25b ... and the rubber mount and collars



3.26a Remove the screw (A), bolt (B) and trim clip (C) on each side..



3.26b ... and draw the tail cover back off the bike

Tailcover

- 24 Remove the seat (see Section 2).
- 25 Unscrew the bolts securing the passenger grab-rail and remove it along with the rubber mounts and collars, noting how they fit (see illustrations).
- 26 Remove the screws, bolts and trim clips

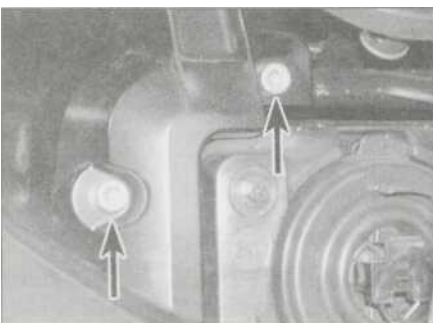
securing the tail cover, then carefully draw it back off the bike (see illustrations).

Fairing

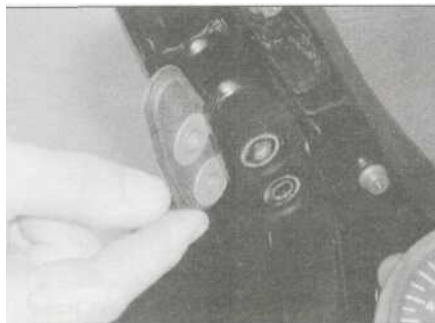
- 27 Installation is the reverse of removal.
- 28 Remove the rear view mirrors (see Section 4).
- 29 Remove the two trim clips and the screw

securing each trim panel and remove the panels, noting how they fit.

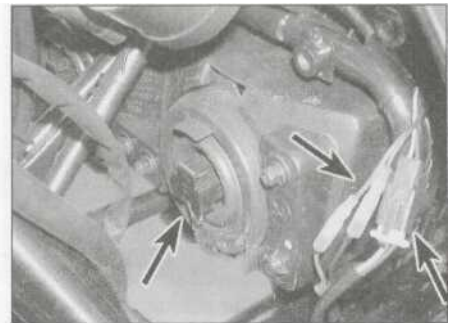
- 30 Unscrew the bolts securing each fairing bracket and remove the brackets along with the mirror insulating pads and collars, noting how they fit (see illustrations).
- 31 Disconnect the headlight, sidelight and turn signal wiring connectors (see illustration).



3.30a Unscrew the bolts (arrowed) and remove the bracket...



3.30b ... and the insulating pads and collars

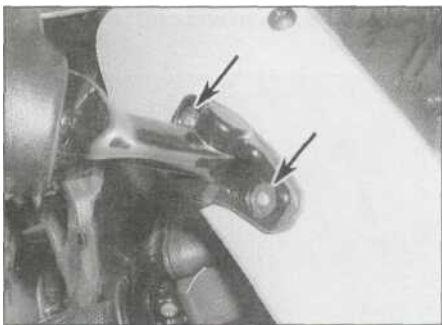


3.31 Disconnect the headlight and turn signal wiring connectors on each side, and the sidelight wiring connector



3.32 Carefully draw the fairing forward off the bike

32 Carefully draw the fairing forward, making sure nothing gets snagged, and remove it from the bike, noting how it fits (see illustration).



4.1 a Undo the screws (arrowed) and remove the mirror ...



4.1 b ... and the rubber insulating pad

33 Installation is the reverse of removal. Make sure the wiring connectors are correctly and securely connected.

4 Rear view mirrors - removal and installation

Removal

1 On YZF models, remove the two screws securing each mirror and remove the mirror along with its rubber insulator pad (see illustrations).

2 On FZS models, unscrew the two nuts securing each mirror and remove the mirror (see illustration).

Installation

3 Installation is the reverse of removal. On YZF models, fit the rubber pads with the arrow facing out and pointing forward.

5 Windshield - removal and installation

Removal

1 Remove the screws securing the windshield

to the fairing and remove the windshield, noting how it fits (see illustration).

Installation

2 Installation is the reverse of removal. Do not overtighten the screws.

6 Front mudguard - removal and installation

Removal

1 On YZF models, remove the four screws securing the front section of the mudguard and draw it forward (see illustration). Counter-hold the bolt on the inside of the rear section and unscrew the nut securing the brake hose on each side (see illustration). Detach the hoses and remove the bolts. Now unscrew the remaining two bolts securing the rear section and draw it backwards, noting how it fits (see illustration).

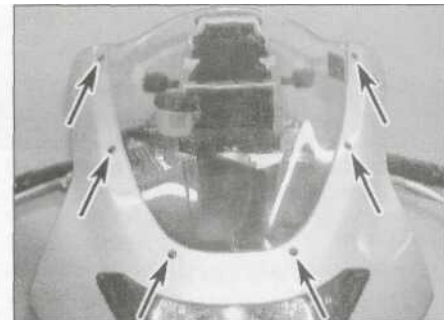
2 On FZS models, unscrew the four bolts securing the mudguard to the inside of the fork sliders and remove the mudguard, noting the collars.

Installation

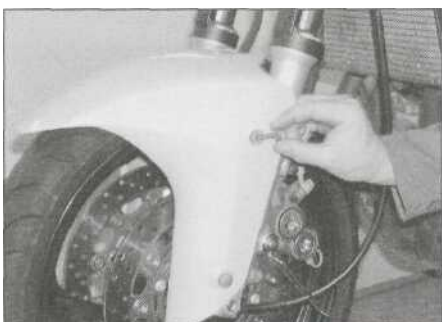
3 Installation is the reverse of removal.



4.2 Unscrew the nuts and remove the mirror



5.1 Windshield screws (arrowed) • YZF model



6.1 a Remove the four screws and the front section ..



6.1 b ... then detach the brake hose guide ...



6.1 c ... and remove the front bolts and the rear section