

# Windjammer SS/IV Vindicator/II Mounting Instructions

## Yamaha 1980 XJ650

Dear Vetter Owner:

These instructions explain the procedure required to mount either the Windjammer SS/IV or Vindicator/II fairing to your motorcycle. We urge you to follow the preparation and assembly sequence from start to finish. This will benefit you directly in several ways: 1) You will be assured the fairing is properly installed and is immediately ready for operation. 2) You will minimize unnecessary confusion, moaning and scraped knuckles. 3) You will protect your investment by doing it right, and 4) with the confidence that nothing has been overlooked, you won't have to waste time backtracking to correct mistakes. That's time you could spend riding.

Thanks for buying Vetter products. We appreciate your business and comments.

Sincerely,  
The folks at Vetter

NOTE TO DEALERSHIP PERSONNEL: If you are installing the fairing, we ask that you adhere to this procedure. Following these instructions will help ensure that your customer remains a customer.

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#### **WARNING**

THIS BRACKETING AND THESE INSTRUCTIONS WERE DESIGNED SOLELY FOR USE IN MOUNTING THE VETTER WINDJAMMER SS/IV AND VINDICATOR/II FAIRINGS TO THIS SPECIFIC MOTORCYCLE. IF YOU ARE UNABLE TO DETERMINE IF THIS HARDWARE IS FOR YOUR MOTORCYCLE, CONTACT YOUR DEALER. IF YOUR DEALER IS UNAVAILABLE, CONTACT THE CUSTOMER SERVICE DEPARTMENT, VETTER CORPORATION, RANTOUL, ILLINOIS 61866 (217/893-9300). THESE INSTRUCTIONS CONTAIN VALUABLE INFORMATION FOR FUTURE REFERENCE. THEY MUST BE GIVEN TO THE CUSTOMER.

## Vetter

Vetter Corporation, Rantoul, Illinois 61866 217/893-9300

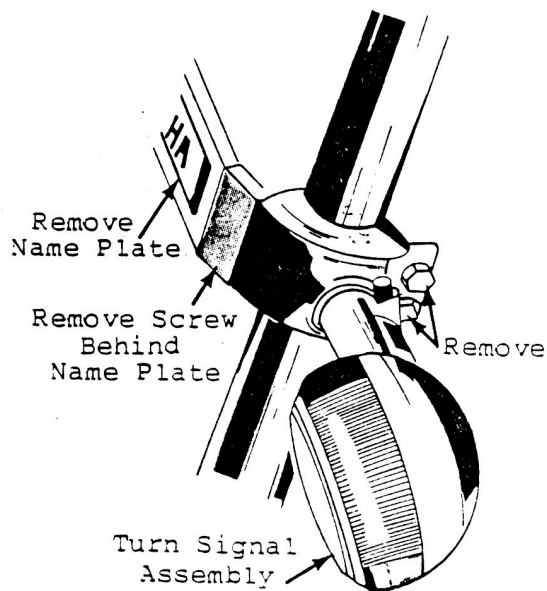
## prepare for fairing installation

- 1) Put the motorcycle on its center stand.
- 2) Remove the seat by pulling the lever under the right rear section of the seat. Lift and pull the seat towards the rear of the bike.
- 3) Remove the 8mm bolt at the back of the gas tank. Turn the petcocks to ON position and remove the gas and vacuum lines. Pull tank up and towards the rear. Remove and set aside to prevent any damage.
- 4) Remove the two phillips head screws in the headlight rim, disconnect and remove the headlight.
- 5) Remove the two 8mm bolts holding the nacelle to the headlight stays and the 6mm adjuster screw located under the nacelle. Remove the nacelle.

### NOTE:

It will be necessary to disconnect some wiring to remove the nacelle. Reconnect the wires upon removal of the nacelle.

- 6) Disconnect the tachometer and speedometer cables at the instruments and let hang for now.
- 7) Remove the Yamaha name plate located on the front of the triple clamp. (Illus. 1)
- 8) Remove the three allen head screws which hold the turn signal assemblies and remove the turn signals. Reinstall the allen head screws in the lower triple clamp and tighten securely. (Illus. 1)
- 9) Remove the two 6mm bolts holding the instruments. The bolts will be reused. Remove the two 6mm bolt holding the headlight stay assembly on the lower triple clamp. Lift the assembly up and forward, and remove it.



- 10) Replace the two 6mm bolts in the instrument bracket and reinstall the instruments using the supplied locknuts and washers.
- 11) Disconnect the horn wires and remove the horn from the frame and set aside for now.

## electrical connections

- 1) Route the Vetter wiring harness between the frame and the left fork tube. Attach the 3-prong plug in the harness to the motorcycle's headlight socket.
- 2) Connect the remaining wires following the color code below:

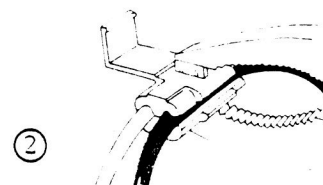
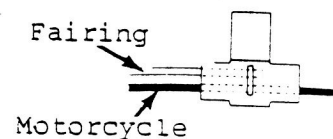
Fairing Wire	Function	Bike Wire
White .....	High Beam .....	Yellow
Yellow .....	Low Beam .....	Green
Black .....	Ground .....	Black
Violet .....	Left Turn Signal .....	Brown
Blue .....	Right Turn Signal .....	Dark Green
Green .....	Running Lights .....	Light Blue
Red .....	Lighter (Option) .....	Light Brown
Brown .....	Accessory (Horn Option) .....	Battery Wire (+)
Orange .....	Accessory (Horn Option) .....	Pink

### CAUTION

THE ORANGE, BROWN AND RED FAIRING WIRES ARE CONNECTED AS ABOVE ONLY FOR THE ACCESSORIES LISTED. ANY UNUSED WIRING SHOULD BE TAPED OFF AT THE END. BEFORE USING THESE WIRES FOR ANY OTHER ACCESSORIES, MAKE SURE YOUR MOTORCYCLE'S ELECTRICAL SYSTEM WILL TOLERATE THE EXTRA CURRENT DEMAND.

Plug the male bullets into the appropriate female connectors. Gently pull all connectors to make sure they are tight. If not, crimp the outside of the connectors with wire crimpers or pliers after the connection is made.

For wires without connectors, use the provided blue connectors as shown. (Illus. 2)





4) Fit the backing plate behind the frame as shown. (Illus. 4) Do not pinch any wires with the backing plate when installing.

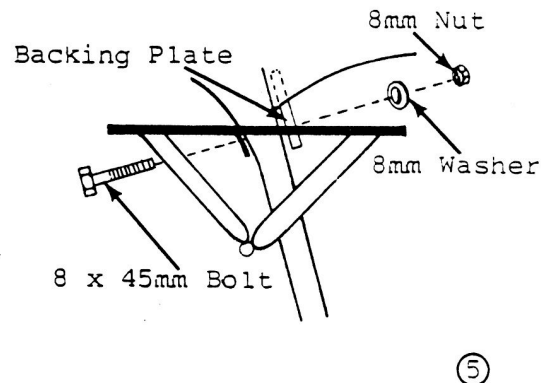
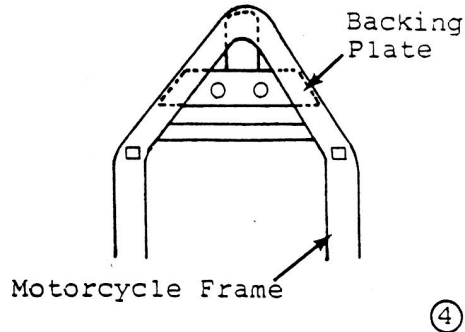
5) Install the 8 x 45mm long bolt through the bracket and backing plate. (Illus. 5) Do not tighten at this time.

6) Check bracket for horizontal alignment by viewing it from the front of the motorcycle. If adjustment is required, tap the bracket to a level position.

7) Tighten all hose clamps and mounting bolts securely. Make sure no wires are between the bracket or backing plate where damage could occur to the wires.

8) Reconnect the tachometer and speedometer cables at the instruments.

9) Remount the horn in the stock position and reconnect the wires.



# CAUTION

THE PRIME CAUSE OF WINDSHIELD, FAIRING AND HARDWARE FAILURE IS LOOSE HARDWARE. FOR YOUR OWN PROTECTION, USE ALL PROVIDED MOUNTING CLAMPS AND CHECK THEM PERIODICALLY FOR TIGHTNESS.

## mount the fairing

### NOTE:

If you are planning to install optional Vetter color inserts, they should be applied before the fairing is mounted.

If you are installing the optional horn kit, refer to the instructions packaged with the kit. If not, proceed with the following instructions.

- Snap the blue connector over the appropriate motorcycle wire.
  - Insert the appropriate fairing wire into the other hole. The wire will not go all the way through the connector.
  - Squeeze the metal tab down flush with the top of the connector.
  - Fold the plastic lid down and snap it shut.
- 3) Compress all the wiring into a tidy bundle and insert it into the black vinyl bag. Cinch up the drawstring and tie the excess around the bag and the hydraulic brake line. Sit the bag upside-down to keep water out.

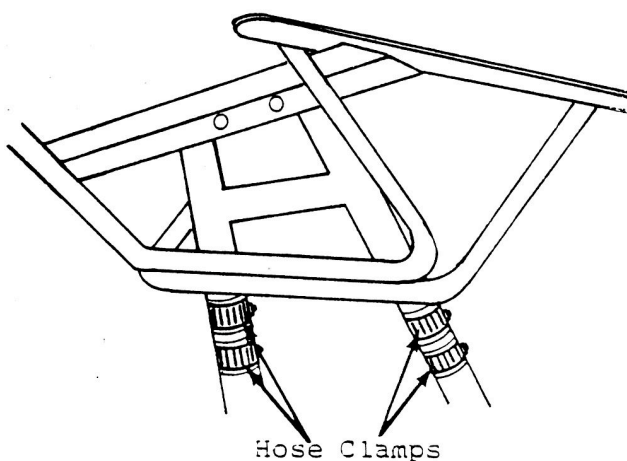
## install mounting bracket

### WARNING

DO NOT ATTEMPT TO MOUNT ANY ENGINE GUARD REQUIRING MODIFICATION OF THE FAIRING MOUNTING BRACKET. CUTTING ANY PART OF THE HARDWARE WILL RESULT IN STRUCTURAL DAMAGE TO THE BRACKET AND SUBSEQUENTLY TO THE FAIRING.

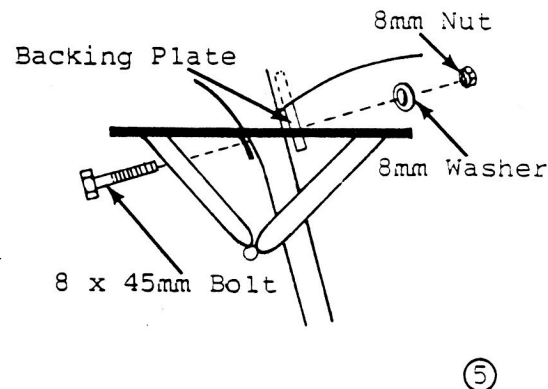
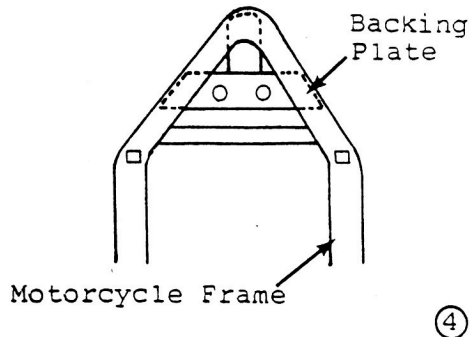
- 1) Remove the two side reflectors and their shrouds located on the frame down tubes by removing the four phillips head screws.
- 2) Position the bracket on the frame as shown. (Illus. 3)

- 3) Fit the lower saddle pads with four hose clamps as shown. (Illus. 3) Leave the clamps slightly loose.



③

- 4) Fit the backing plate behind the frame as shown. (Illus. 4) Do not pinch any wires with the backing plate when installing.
- 5) Install the 8 x 45mm long bolt through the bracket and backing plate. (Illus. 5) Do not tighten at this time.
- 6) Check bracket for horizontal alignment by viewing it from the front of the motorcycle. If adjustment is required, tap the bracket to a level position.
- 7) Tighten all hose clamps and mounting bolts securely. Make sure no wires are between the bracket or backing plate where damage could occur to the wires.
- 8) Reconnect the tachometer and speedometer cables at the instruments.
- 9) Remount the horn in the stock position and reconnect the wires.

**CAUTION**

THE PRIME CAUSE OF WINDSHIELD, FAIRING AND HARDWARE FAILURE IS LOOSE HARDWARE. FOR YOUR OWN PROTECTION, USE ALL PROVIDED MOUNTING CLAMPS AND CHECK THEM PERIODICALLY FOR TIGHTNESS.

## mount the fairing

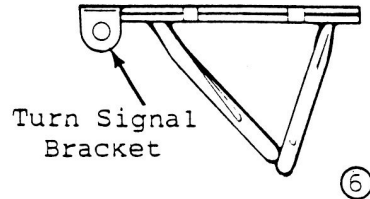
**NOTE:**

If you are planning to install optional Vetter color inserts, they should be applied before the fairing is mounted.

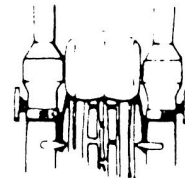
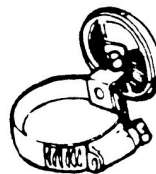
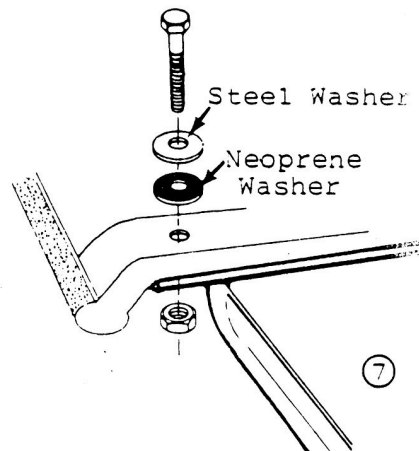
If you are installing the optional horn kit, refer to the instructions packaged with the kit. If not, proceed with the following instructions.

**VINDICATOR ONLY:**

Place the turn signal brackets on the support shelves. Tape the brackets in place to prevent movement when the fairing is being installed. (Illus. 6)



- 1) Set the fairing on the mounting bracket; install four mounting bolts through the holes and install washers and locknuts on the bolts. (Illus. 7)
- 2) Before tightening the nuts, plug the external wire harness into the fairing at the serial number plate. Check all electrical components before continuing. Refer to the Troubleshooting section of your Owner's Manual if problems arise.
- 3) Now tighten the four bolts enough to slightly compress the neoprene washers.
- 4) Fit the provided reflectors to the mounting clamp with the 6mm nuts provided.
- 5) Install each assembly on the fork slider as shown. (Illus. 8)



Refer to your Owner's Manual for windshield mounting instructions and final adjustments. We suggest you insert these instructions in the manual for future reference.

**WARNING**

FAILURE TO INSTALL THE WINDSHIELD PROPERLY, OR TO ATTEND TO FINAL ADJUSTMENTS, COULD RESULT IN DANGEROUS INTERFERENCES DURING USE OF THE FAIRING AND MOTORCYCLE. FOR YOUR SAFETY, MAKE ALL NECESSARY ADJUSTMENTS BEFORE USING THE NEWLY INSTALLED FAIRING.

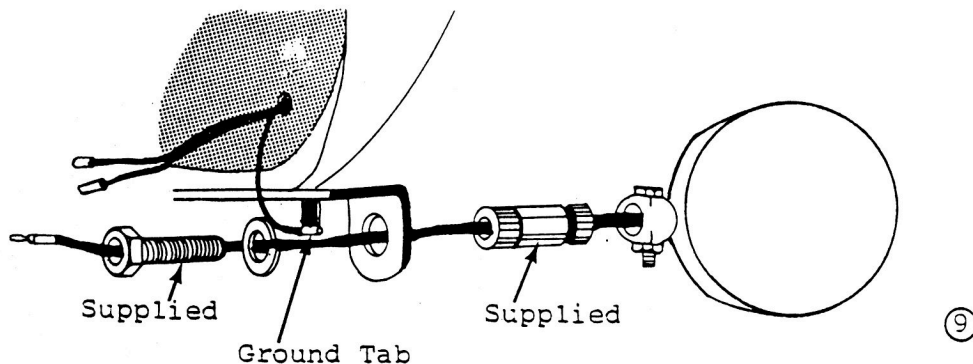


**WARNING**

THIS WINDJAMMER SS/IV, VINDICATOR/II FAIRING AND WINDSHIELD ARE DESIGNED TO PROTECT THE MOTORCYCLIST FROM THE WIND. THEY ARE NOT INTENDED TO PROTECT THE RIDER OR RIDERS IN THE EVENT OF AN ACCIDENT.

## Vindicator turn signals

- 1) Feed the turn signal wires through the Vetter stalk and secure the assembly with the original nut and bolt.
- 2) Route the wiring through the mounting bracket, lock washer and hollow bolt. Tighten enough to keep the turn signal from rotating. (Illus. 9)



- 3) Connect the turn signal wires to the fairing wires following the color code on page 3. Connect the fairing's black ground wire to the terminal on the bracket.
- 4) Pull the slack wire into the fairing by reaching through the side pocket. Carefully twist the wires to keep them inside the fairing.

USE THIS SCALE TO CHECK BOLT AND WASHER DIMENSIONS

