General Mounting Instructions and Owner's Manual

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**SPECIAL NOTE:** To comply with federal legislation, this manual must be given to the consumer. It contains their copy of the Limited Warranty and can be useful for their future reference.

**INTRODUCTION**
This manual contains important information regarding the safe operation and maintenance of your Windjammer SS. While it may appear lengthy, we urge you to read it carefully, understand all components of your fairing and follow the recommendations to attain the maximum trouble-free and enjoyable operation of your fairing.

In this manual, statements preceded by the following words are of special significance:

**WARNING** means that there is the possibility of personal injury to yourself and others.

**CAUTION** means that there is the possibility of damage to the fairing and related components.

**NOTE** indicates points of particular interest for more efficient and convenient installation and operation.

We recommend that you take particular notice of these items when reading this manual.

The intent of this manual is to ensure that your Windjammer SS is properly installed – PLEASE USE IT! First, we recommend that as you unpack your fairing, you use pages 3, 4, and 5 to study and recognize the various parts, so you will understand the detailed assembly steps that follow. Second, we recommend that you study your Supplemental Instructions also included with the fairing, and mark in the manual at any point that requires reference to the Supplemental Instructions. The Supplemental Instructions are numbered to correlate with the numbering in this manual. If your first Supplemental Instruction is numbered 2.8.2, turn to page 7 of this manual and note that reference to the Supplemental Instructions is required while making the electrical hook-up. Working straight through the manual in this way will assure that nothing is overlooked or forgotten.

As you are following the instructions, double check the following points as they are critical:
1. Carefully check wiring color codes.
2. If you have safety bars, check carefully to determine if they are compatible with this fairing mounting system.
3. Always install rubber washers between steel washers and the fairing.
4. Check for clearance and tighten all bolts before operating your motorcycle with the newly installed fairing.
5. Periodically check and retighten all bolts after installation.

We thank you for purchasing a Vetter Fairing Company product, and we ask that you exercise care and safety in its use. We sell only quality products, and we stand behind the quality of our products.

Enjoy your fairing.

[Signature]
NOMENCLATURE

Interior View

1. interior wiring harness DA9016
2. external wiring harness W/U SS type DA9015
3. external wiring harness W/U III type DA9004
4. headlight adjustment knob
5. pocket tonneau SG9009
6. locking tonneau CG9007
7. cigarette lighter hole plug A90014
8. lower mounting hole
9. pocket edging AC9002
10. serial number plate
11. ear
12. horseshoe
13. horn mounting holes
14. horn relay mounting holes
15. horn option kit C90002

Contact your local Vetter dealer to purchase or order replacement parts.

NOMENCLATURE

Exterior View

1. windshield BA9010
2. windshield frame tape AE9001
3. chrome vinyl edging E9006
4. leading edge lights (LL) right - BE9017
   left - BE9017, left - BE9014
5. leading edge light socket BA9019
6. headlight extension plug DA9009
7. headlight reflector
8. sealed beam DB9002
9. headlight chrome ring DB9018
10. turn signal hole plugs, set of eight - AE9006
11. nose
12. chin
13. mounting bracket
14. mounting bracket backplates
15. mounting bracket rails
16. mounting bracket tubes
17. reflector brackets
18. optional snap vent windshield BA9005

Contact your local Vetter Dealer to purchase or order Genuine Vetter Replacement Parts.
C. Unless front reflectors are mounted on the lower portion of the fairing, where they won’t be obscured by fairing installation, they must be removed from the motorcycle and reinstalled when the fairing is installed. In step 4.

D. If the turn signal units were used to hold the headlight nacelle, use the bolts and nuts provided by Vetter to hold the nacelle in place.

2. Electrical Connections

**OBJECTIVE.** Part of the motorcycle’s electrical equipment has been removed to be replaced by fairing components. The Windjammer wire harness must be connected to the motorcycle at the point. Besides the headlight and running lights, connections are also required for options such as horns and the cigarette lighter.

A. Route external harness into the back of the headlight nacelle (Honda GL 1000 is different. See Special Supplementary Instructions.)

B. Using the color code provided in the Supplementary Instructions, make the electrical connections as shown. For most Japanese motorcycles (except Honda GL 1000) and some pre 1974 models:
   1. Plug male Vetter headlight connector into the motorcycle’s headlight plug.
   2. Plug male Vetter bullets into appropriate motorcycle female connectors. Gently pull all connectors to make sure they are tight. If not, crimping the outside of the connectors with wire crimper or pliers after the connection is made.

For Honda GL 1000, come pre 1974 Japanese models, BMW, Harley Davidson and all European motorcycles:

Use the blue connectors for connecting the wire harness into the motorcycle electrical system.

C. Two wires on the Windjammer harness (brown and orange) can be used for accessories except with the horn option installed (see horn option instructions). Before making use of these extra connections for lighting or other accessories, be sure that your motorcycle battery will not be drained by extra current demand.

D. Install the black Vetter headlight nacelle cap. Use black electrical tape to secure the cover to the nacelle. The motorcycle headlight is not usually replaced. However, if your Supplementary Instructions direct you to reinstall your headlight, do so after using black electrical tape over the male headlight connectors.

**SPECIAL BLUE CONNECTOR INSTRUCTIONS**

A. Strip the Vetter blue connector over the appropriate bike wire.

B. Insert the appropriate Windjammer SS wire into the hole on the right side of blue connector. The wire will not go all the way through the connector.

C. Squeeze the metal tab down onto the wires to make the connection. The metal tab must be flush with the top of the blue connector.
D. Lock the blue connector by folding the flexible plastic tab down until it snaps closed.

E. Pull gently to test for a secure connection.

F. If necessary, connect the wiring, do so by un-snaping the top of the blue connector and, using pliers, removing the metal tab. After checking the wires, reinstall the metal tab and snap shut the blue connector.

SPECIAL HORN OPTION INSTRUCTIONS

A. Locate motorcycle horn, disconnect both leads and remove horn from motorcycle. Cover horn connector wires with electrical tape.

B. Using the packaged fused brown wire, secure with electrical tape along top frame and route it from the battery to the motorcycle nacelle (Honda GL1000 - left side chassis). Do NOT connect to battery yet.


2. Honda GL1000, some pre 1974 Japanese models, Harley Davidson and all European motorcycles using Windjammer III type external wiring harnesses (see page 3 for identification): Strip 3/8" of insulation from end of brown wire and crimp provided outlet on it. Plug bullet into receptacle on brown fused wire.

C. Connect brown wire to power side of battery.

NOTE: Make sure brown wire insulation is not crimped or damaged.

D. Using the color code from the Supplementary Instructions, connect Windjammer SS orange wire to the motorcycle horn switch wire with a blue connector.

3. Mounting Bracket Installation

OBJECTIVE: The Windjammer SS is designed to fit a large number of different motorcycles. To do this requires that each motorcycle have a specially designed mounting bracket. When installed properly, the bracket will locate the fairing at the proper height and keep it in position for your bike. If you have any questions, refer to the special section titled "Mounting Bracket Instructions" for special information. The successful operation of the fairing and your happiness with it are dependent upon the mounting. Use all the hardware specified and periodically check for tightness after installation.

A. Raise the bracket up between the motorcycle frame and front wheel, then position it on the frame downtubes below the steering head.

B. Secure the bracket loosely to the frame members with the mounting clamps.

C. Check bracket for horizontal alignment by viewing it from in front of bike. If adjustment is required, tap bracket to level position.

D. Stand an footpads. Check bracket for centering with the bike and adjust as necessary. This is done by turning the handlebars left and right, and tapping the mount until the spaces between the forks and side rails of the hardware are equal. When complete, be sure to recheck horizontal alignment.

E. Tighten all mounting clamps.

WARNING:

THE PRIME CAUSE OF WINDSHIELD BREAKAGE, FAIRING AND HARDWARE FAILURE IS LOOSE HARDWARE. For your own protection, use all provided mounting clamps and check them periodically for tightness.

SPECIAL SAFETY BAR INSTRUCTIONS

BEFORE MOUNTING YOUR WINDJAMMER HARDWARE WITH A SAFETY BAR, CHECK TO SEE THAT THE MOUNTING BRACKET CAN BE POSITIONED SECURELY ON THE FRAME WITHOUT INTERFERENCE FROM THE SAFETY BAR:

1. Mark the position of the upper safety bar mounts against the motorcycle frame.

2. Remove the safety bar and position the mounting hardware on the frame. The mounting hardware should clear all marks that locate the upper safety bar mounts.

IF IT IS OBVIOUS THAT THE MOUNTING BRACKET AND SAFETY BAR CANNOT BE USED TOGETHER, DO NOT ATTEMPT TO MOUNT THE FAIRING WITH THE SAFETY BAR.

If there is no apparent interference, continue with the appropriate section.

OPEN LOOP TYPE SAFETY BARS

1. Thread the safety bar through the side loops of the mounting bracket.

2. Proceed with the standard mounting bracket installation steps.

CLOSED LOOP TYPE SAFETY BARS

Closed loop safety bars can be used on the following motorcycles only if the mounting hardware does not have to be modified.

Honda GL 1000

Guzzi V750

Moto Guzzi - 850

Suzuki GS400, GT 380/550, GT550, GS550, RE5

Yamaha XJ550, XS750

Triumph T150, T160

Cutting any part of the mounting bracket for these motorcycles and those noted in the Special Supplementary Instructions will result in structural damage to the fairing and mounting bracket failure.

For other motorcycles, closed loop safety bars can be installed with the Windjammer SS providing a safety bar kit is used.

WARNING: Without the safety bar kit, structural damage to the bracket and, subsequently, to the fairing will result.
After having:

1. Check to assure your bike is not on the above list or noted in the supplementary instructions;
2. Check to verify that there is no interference;
3. Obtain a safety bar kit, proceed with the following instructions:
   a. Make cutouts between crossmember and the rear tube weld joint. Cut spaces in the mounting bracket rails slightly larger than the diameter of the safety bar.
   b. Slip the safety bar through the cutouts made in the bracket.
   c. Place the adapter plate on top of the hardware rail and tape them together to prevent them from sliding off later.
   d. Proceed with the standard mounting bracket installation—step 3.

4. Installing the Windjammer

   OBJECTIVE: Once the bracket is securely attached to the motorcycle, the fairing is ready to be installed. The important item to remember is that rubber washers should always be installed between steel washers and the fairing.

   A. Remove the motorcycle gas tank to prevent damage during installation.
   B. Install a steel and rubber washer on each of the four mounting bolts. Be sure that the steel washer is against the bolt head and the rubber washer in contact with the fairing.
   C. Set the fairing on the mounting bracket, install mounting bolts through the two rear holes and install locknuts on the bolts.
   D. 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 if problems arise.
   E. Insert two front mounting bolts. Before installing the locknuts on the bolts, a reflector bracket must be installed on each side of the fairing. Make sure the "E" of the bracket is up. Tighten mounting nuts with the brackets straight forward.

5. The Windshield Installation

   OBJECTIVE: A properly installed windshield is essential for the safe use of the fairing. The windshield bolts are nylon, overtightening will result in bolt failures. Please note that the top two windshield bolts require brass grrommets, large washers and a second locking nut.

   A. Using a nylon bolt, puncture the foam tape at each of the windshield bolt holes. Position the windshield on the fairing.

   NOTE: For reasons of structural strength, the windshield must be "pinched" before the top bolt holes will line up.

   B. For the top two windshield bolts:
   1. Slide the brass grommet onto the nylon bolt.
   2. Slide the large nylon washer onto the bolt and grommet.
   3. Insert bolt and grommet through windshield and fairing hole.
   4. Slide a small nylon washer onto bolt.
   5. Install a nut on the bolt but do not tighten yet.
   6. Install a second, locking nut on the bolt.

   C. For the remaining seven windshield bolts:
   1. Insert nylon bolt through windshield and fairing.
   2. Slide a small nylon washer onto bolt.
   3. Install a nut on the bolt but do not tighten yet.
   4. Tighten the bolts starting with the center bolt and working out to the top bolts.

   WARNING: Failure to install the windshield properly and maintain bolt tightness may result in windshield cracking. If the windshield ever becomes cracked, it should be replaced for safety reasons.

6. Final Adjustments

   OBJECTIVE: The Windjammer SS is now installed but several details must be attended to before the installation is complete. FINAL CLEARANCE ADJUSTMENT, IF NEGLECTED, 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.
A. Check clearances with the fairing and wind-
shield installed to be sure that your headlight na-
celle does not touch it. Then your front brake lever does not engage when turned to full lock position and
that the external wiring harness does not catch
anyplace on the bike or fairing when the handle-
brs are turned. If any of these problems arise, the
following steps should solve them:

1. For clearance at the headlight nacelle, tilt the
headlight for maximum clearance. If the nacelle is
still hitting in that position, remove the bolts
that hold the headlight nacelle and move it fur-
ther back by replacing the bolts with provided
smaller diameter bolts. Finally, on some moto-
cycles, it may be necessary to remove the
headlight nacelle completely. If you find that
this is necessary, be sure to tie the wires from
the nacelle between the forks as high as pos-
sible to avoid damaging them.

2. Adjust your motorcycle's handlebars and mir-
rors, if necessary, to provide clearance for
maximum turning radius. Loosen the bolts that
hold the handlebars and rotate the handlebars
toward the motorcycle, check clearance then
retighten bolts.

B. Headlight Adjustments

Vertical - The Windjammer SS has been de-
signated with an adjustable headlight for vertical
positioning. The knob located in the center of
the dash allows vertical positioning of the beam
from the seat of the motorcycle. Adjust-
ment may be necessary when carrying passengers or luggage. Do not adjust the head-
light while operating motorcycle.

Horizontal adjustment:

1. Insert screwdriver in screwdriver slot
located behind bottom of ring and push
spring up (1/8") until it disengages from
ring.
2. Turn ring counterclockwise to full un-
latch position and remove screwdriver.
3. Remove ring from nacelle.
4. Remove headlight from nacelle.

C. Troubleshooting & Special Instructions

Electrical

If your problem is electrical, first, check your color
codes to ensure the proper wires have been con-
ected. If your colors check out, the next step is to
check the blue electrical connectors or bullet
connectors depending on your model bike for good
contact. This is done by reversing the steps to con-
nect them. Unsnap the lip of the blue connector;
using pliers, remove the metal tab. Check both
wires to see if the tab comes through the insulation
and to the wire itself. Reinsert the wires. A loose
bullet connector connection can be improved by
unplugging the connector and making the female
connector smaller by use of pliers and then rein-
stalling the bullet connector. A bad connection on
your ground is easily diagnosed. If no power is get-
ting to the fairing, check to see that the external
wiring harness is making a good connection to the
fairing's plug. If still no power is getting to the fair-
ing, check the motorcycle's fuses and consult the
motorcycle's owner's manual for determining
cause of fuse failure before replacing fuse. If your
headlight is weak and your turn signals don't func-
tion properly, your ground is probably not making
good contact. If your motorcycle battery does not
maintain a good charge after installing the fairing,
MOUNTING

The best answer for almost any problem is to read your instructions carefully. If, when mounted, your headlamp will not fit your fairing, either the headlamp or the fairing is not adjusted back far enough or it is not tilted at the proper angle. Brackets which do not bolt to the motorcycle frame may require up or down adjustment for a proper fit.

If problems arise in mounting the windshield, don’t panic. The windshield fits correctly if the proper procedures are followed. If the step-by-step assembly, the proper sequence for installing the front fairing, is followed, the windshield will be “preloaded” before it will fit properly.

TONNEAU COVERS

The pocket flaps are flat and functional. When the fairing is removed, the cover can be easily removed from the top down and pulled out of the bottom up.

The pocket flaps double as a snap on or snap off\n
The locking tonneau cover must not be removed while operating the motorcycle. If the cover is too snug or too loose, the lock blade to achieve the desired fit.

MAINTENANCE AND REPAIR

The Windjammer SS requires little maintenance, but we recommend that you do make periodic checks. The mounting clamps, mounting bolts, and the windshield bolts should be checked for tightness and adjustments made as necessary.

Cleaning and waxing the fairing: When cleaning the fairing, use a mild detergent and warm water. Wipe the surface with a soft cloth or a sponge to remove any residue. Do not use any cleaners which contain methanol or ethyl alcohol. Soft rubber cloth is then for the job.

Structural damage to the Windjammer SS may be repaired by using a Hotchkiss Fix Kit, available through your dealer. The Hotchkiss Fix Kit includes resin and hardener, plastic filler, etc.

CAUTION: If you have any questions on storing, handling, or applying of Windjammer SS strips, contact our Customer Service Department.

TOWING

When towing your motorcycle, it is advisable to store the Windjammer SS in such a manner that it is not exposed to the elements.

If you have any questions on storing, handling, or applying of Windjammer SS strips, contact our Customer Service Department.

REPLACEMENT PARTS

We recommend that you always use genuine Vetter Replacement Parts. Contact your local Vetter dealer to purchase or order replacement parts.

CUSTOMER SERVICE

Any problems concerning installation or modification of the fairing should be referred to your dealer or the Customer Service Department, Vetter Faring Company. We are here to serve you. 275-853-8880. In order to comply with consumer legislation and to provide the maximum amount of service to you and the dealer, it is necessary that you fill out the Owner’s Registration Card and promptly return it to Vetter Faring Company.

If you have any questions on storing, handling, maintenance or applying of Windjammer SS strips, contact our Customer Service Department.
LIMTED WARRANTY VETTER FAIRING COMPANY

PRODUCTS

The Warranty applies to products manufactured or distributed by Vetter fairing Company, Hampt, Illinois, 61866, and sold by Vetter Fairing Company or its authorized dealers within the United States, Puerto Rico, and the Virgin Islands. It is given to the first retail purchaser only and is not transferable to subsequent owners.

Warranty Obligations: Vetter Fairing Company warrants that it, or one of its authorized dealers, will repair or, at its option, replace any part proven to be defective in material or workmanship within six (6) months unlimited mileage of the date of purchase. Parts repaired or replaced under this warranty are warranted only during the balance of the original warranty period. THIS WARRANTY DOES NOT INCLUDE ANY LABOR CHARGES FOR TROUBLESHOOTING, REMOVAL OR INSTALLATION.

Exclusions from Coverage: 1. Any repairs or replacements of parts necessitated by misuse, negligence, fire, accident, damage caused by exposure to gasoline, brake fluid, harmful solvents and cleaners, pains, or repair material, use of unauthorized accessories, faulty installation, installation upon motorcycles or vehicles not listed in Vetter Fairing Company's retail and dealer catalog sheets, or improper or unreasonable maintenance are not covered. 2. This warranty does not cover "Tire" blowouts.

DISCLAIMER OF CONSEQUENTIAL DAMAGES AND LIMITATION OF IMPLIED WARRANTIES: TO THE EXTENT THE LAW PERMITS, VETTER FAIRING COMPANY SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR LOSS OF USE OF THE FAIRING, CONSEQUENTIAL OR INCIDENTAL DAMAGES, ANY IMPLIED WARRANTY ARISING UNDER LAW, INCLUSIVE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO THE DURATION OF THIS LIMITED WARRANTY.

IMPORTANT: Some states do not allow limitations on how long an implied warranty lasts and/or limitations or exclusions of consequential or incidental damages, so the above limitations may not apply to you.

To Obtain Warranty Service: Information you must provide when filing claims: 1. Name, mailing address and telephone number. 2. Selling dealer's name and address. 3. Serial number of the product. 4. Model and year of motorcycle. 5. Date product was purchased. 6. Date and mileage at failure. 7. Description of problem.

Steps to take: 1. Contact your authorized Vetter dealer (preferably your selling dealer) at your expense. 2. If you are unable to obtain warranty service, or should your warranty claim be denied for reasons that you consider unjustifiable, contact the owner of your selling dealer. Normally, this should resolve your problem. However, if you require further assistance, write or call the Customer Service Department of Vetter Fairing Company, Hampt, Illinois, 61866. Phone: 217-931-1500. At this point, you must be prepared to return the part in question to Vetter Fairing Company with all freight charges prepaid. The charges will be reimbursed to you if they total over $5.00 (five dollars) and the warranty claim is honored.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.