



INSTALLATION AND OWNER'S MANUAL

Kit BB, Heavy Duty Windshield N2210 or N2270
to Kawasaki VN800B and VN1500D

PARTS LIST

QTY.	DESCRIPTION
1	Mount Bracket Left
1	Mount Bracket Right
2	Screw, M8 x 40 Flat Head
2	Screw, M6 x 33 Hex Flange Head
4	Screw, M8 x 45 Hex Head
4	Spacer, Chrome, 1.187"
2	Washer Plate



Hex Key, 6mm
Hex Key, 5mm
Wrench, 8mm
Socket & Wrench, 10mm
Wrench, 13mm

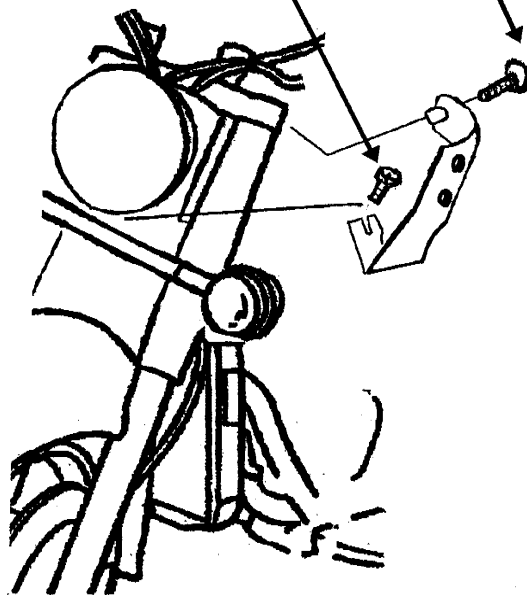
MOUNT BRACKET INSTALLATION

NOTE: Bracket installation is best performed one side at a time

1. Loosen Headlight mounting screws at lower Triple Clamp (8mm Wrench & 10mm Socket & Wrench).
 2. Remove headlight mounting screw from left side, it will not be reused.
 3. Remove pinch bolt from left side of upper Triple Clamp, it will not be reused (Hex Key, 6mm).
 4. Place left Mount Bracket between lower Triple Clamp and Headlight mounting bracket, bushing at top will fit into upper Triple Clamp.
 5. Replace Headlight Mounting Screw with M6 x 33 Hex Flange Screw from kit.
- NOTE:** Slots will fit around Headlight Mounting Screw and Fork Cover Screw.
6. Replace original pinch bolts with M8 x 40 Flat Head Screws, tighten until snug. (Hex Key, 5mm).
 7. Repeat steps 2 through 6 on right side.
 8. Tighten Headlight mounting screws and Fork pinch bolts to manufacturer's specified torque.

STEP 4-6 Replace Headlight Mounting Screw with M6 x 33 Hex Flange Screw from kit.

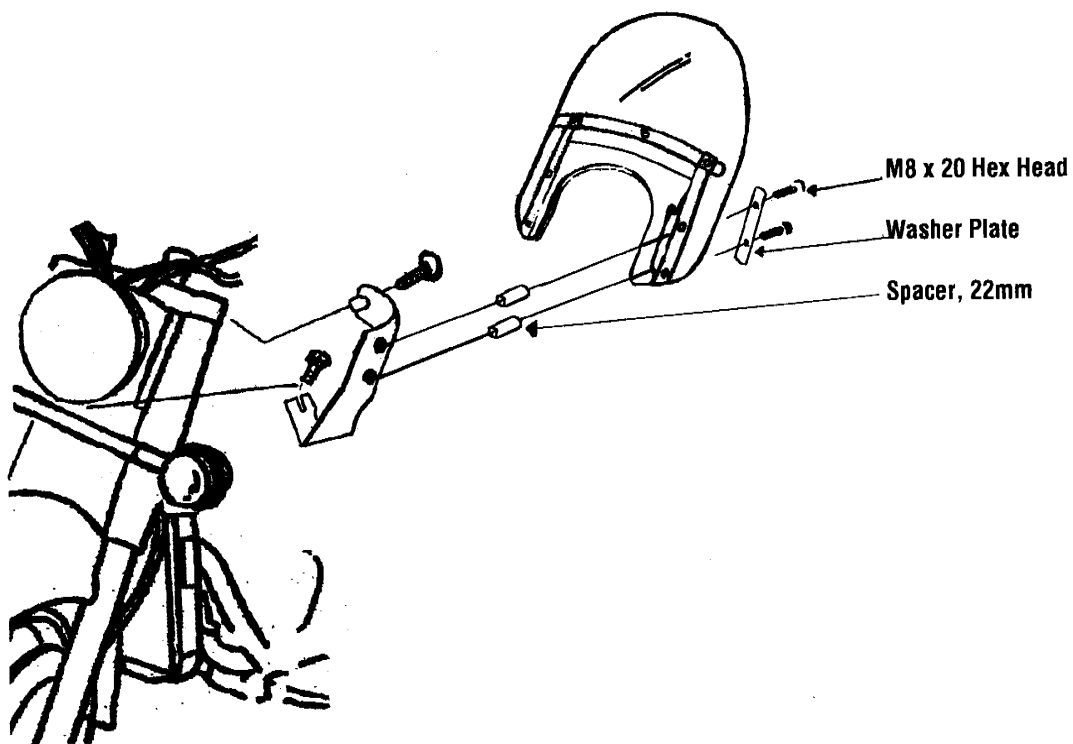
Replace original pinch bolts with M8 x 40 Flat Head Screws.



WINDSHIELD INSTALLATION

1. Put one M8 x 40 Hex Head screw through a hole in each Washer Plate. (Page 2.)
2. Hold Windshield in place at Mount Brackets.
3. Place Spacer between Mount Bracket and Windshield Inside Vertical Bracket
4. Thread Screw with Washer Plate, through Windshield Vertical Brackets and Spacer, into nuts, on Mounting Bracket
5. Repeat steps 3 and 4 on opposite side of windshield

6. Adjust location of windshield on Mount Brackets to desired height and angle.
7. Tighten M8 Hex Head Screws to 15 foot/pounds torque (20Nm) (13mm Wrench).



WARNING

National Cycle windshields and fairings are designed to provide wind protection and increased riding comfort, but not protection in the event of a collision with another vehicle, the road, birds, or any other object.

Our products utilize certain features, patented and otherwise, that may minimize injury in certain accidents, but the possibility of injury exists if the screen is broken or if impacted by an object. Always wear eye protection, helmets and protective clothing. Never ride your motorcycle while under the influence of drugs or alcohol.

All of our products are made in conformance and exceed the requirements of DOT SS205, Z26.1, classifications AS6 and AS7, which covers all safety glazing for motorcycle application.

Never ride your motorcycle with loose windshield mounting hardware. Check the hardware for tightness regularly.

Today's motorcycles are built with enough frame rigidity to withstand the moderate loads imposed on them by the foreseeable addition of a fork mounted windshield.

If the addition of an accessory(ies) adversely affects your motorcycle's stability, immediately remove the accessory(ies). Do not ride a motorcycle that exhibits unsafe handling traits.

Have experienced service personnel correct any problem before riding with the accessory(ies) installed. For further questions concerning handling problems associated with an accessory(ies), contact your dealer, motorcycle manufacturer, or accessory manufacturer.

MAINTENANCE

To clean the screen, wash with a clean soft cloth, plenty of warm water and, if necessary, a non-abrasive soap such as dishwashing liquid. Flannel or soft chamois make good cleaning cloths. Paint, glue residue or grease removal: Moisten cotton with Naphtha or Turpentine followed by a wash as above. Apply a high quality plastic cleaner, such as McGuir's Mirror-Glaze MG-17 or Novus #2, to the screen. This will leave a protective coating in the screen making future cleanings easier. Do not clean polycarbonate in hot sun or high temperatures.

Do not clean the screen with glass cleaners. Do not use rain protective products on the screen. The solvent action of the alcohol in these products will destroy the screen. Do not allow brake fluid, alcohol, or strong solvents to contact the screen or penetrate between the chrome brackets and the polycarbonate. Permanent damage will result! To remove fine scratches, use a very soft clean cloth and a fine grade buffing compound. Jewelers rouge or McGuir's Mirror-Glaze MG-10 are best for this type of buffing. We recommend hand buffing.

STORAGE

Do not use low quality vinyl covers or old shower curtains to store your motorcycle or windshield. These products damage the plastic of windshields and the motorcycle body.

TRIMMING

All National Cycle accessory and replacement windscreens are top quality wind protection devices. Proper care can help these windscreens give many years of motorcycling enjoyment.

Because each rider has their own combination of physical height and/or motorcycle accessories, trimming may become necessary for the best installation. National Cycle Heavy Duty products are made from polycarbonate and can be trimmed if a few simple procedures are followed. I'm sorry, we cannot be responsible for damage to the product which occurs during trimming.

NOTE: Use of jig saw or saber saw is not recommended! If the windscreen is to be shortened from the top, remember to choose the new height while seated on the motorcycle (both wheels on the ground), with it normally loaded. In all cases you should be able to see over the top of the screen at least by stretching, in case the screen should become opaque because of rain or dirt.

Too much should not be taken off the top as this will affect how far the air shoots off the top of the screen. The rake angle of the screen, which is adjustable in most applications, will also affect how the air comes off the screen.

Mark the line to be cut with a crayon or china marker; these can be easily washed off. A ruler or piece of paper can be used as a guide to duplicate the original shape.

Secure the windshield by gripping it with your knees. This leaves both hands free for filing or sanding. The trimming should be done by sanding or filing with a coarse 60-80 grit file. Since shudders, jolts, and sudden shocks can promote cracking, a smooth continuous motion should be used. A flat belt sander will remove material quickly, but keep the sander moving back and forth for a smooth edge.

If a large amount of trimming is required, a band saw can be used safely. Protect the screen with masking tape before cutting. The blade should have about ten teeth per inch. A hack saw will also work well; be careful not to let it bind in the cut.

Once the desired shape is found, use the coarse file or sandpaper to round the edges. Any scratches that result from handling can be removed. Refer to the Maintenance instructions.