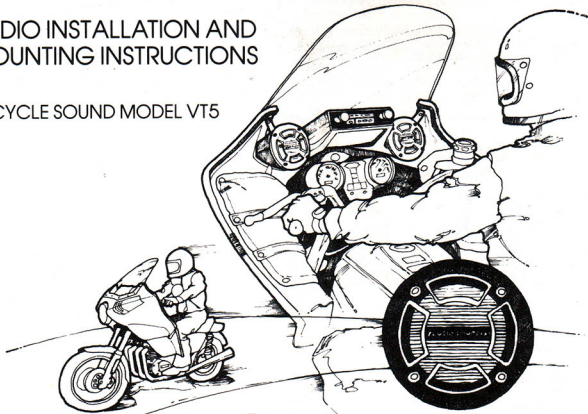
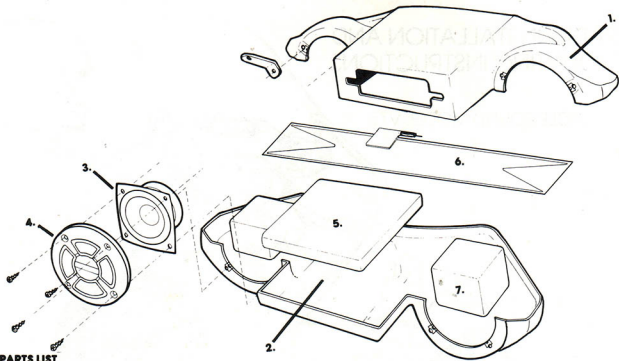


RADIO INSTALLATION AND MOUNTING INSTRUCTIONS

CYCLE SOUND MODEL VT5



(((cycle sound)))®



PARTS LIST

1. Upper Housing
2. Lower Housing
3. Speaker
4. Speaker Grill
5. Radio Shock Pad
6. Laminar Antenna
7. Sound Suppression Block
8. Hardware Kit *

* Not shown

STEP BY STEP INSTRUCTIONS FOR CYCLE SOUND MODEL VT5

1. Place Cycle Sound upside down so the bottom of the housing faces up. This should be done on a padded surface to prevent scratches.
2. Remove 2 screws holding speaker grill and speaker in place. Remove speaker grill and speaker. Repeat procedure on other speaker.
3. Remove 2 screws in rear of housing. Then remove 2 black screws on both sides of front upper housing.
4. You are now ready to separate the housing. After separation, remove two 2"x4"x4" foam sound suppression blocks and one 1/2"x6"x6" radio shock pad. Do not try to remove the other 1/2"x6"x6" shock pad from the upper housing, as it is permanently attached.

Radio and Antenna Installation:

1. Place radio upside down into upper housing. Check volume and station selector shafts to make sure they are the proper width for the radio control shaft slots in housing. Adjust these shafts if necessary. Your kit is provided with two 3/8" flat washers (large). Adjust the shaft nuts and place the washers on each shaft between the inner part of the housing and shafts of the radio. No other backup plates are required.

Laminar Antenna

The Laminar Antenna was designed for concealment purposes. A few precautions should be noted upon installation.

1. Do not fold or crease, this could cause poor or reduced reception.

2. Avoid sharp objects such as metal or screws which could rub through or puncture insulation material. Foam pads may be used for protection.

Installation Procedure:

1. Install antenna horizontally between the upper foam pad and top housing with antenna connector to rear.
2. Connect antenna to radio antenna lead. The Laminar antenna may be turned over to facilitate connection if required.
3. Form the antenna to follow the internal contour of the upper housing.

Note: Some radios may not be equipped with an external antenna lead. If this applies to your radio, you will have to obtain a short extension for proper installation, from your local radio store.

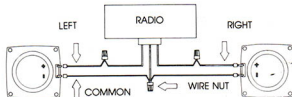
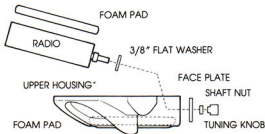
Antenna Trimmer:

Note: FM frequency does not require any antenna adjustments. To obtain maximum reception on AM frequency follow the procedure on the antenna.

Connecting Speaker Wires to Radio:

1. Familiarize yourself with the wiring diagram of your radio. After you have identified all wires, begin attaching gray wires from speaker kit to radio outlet wires with wire nuts provided. **Note:** Each wire set has one wire color coded black and gray for common/ground lead, and one gray wire for 4 or 8 ohm lead.

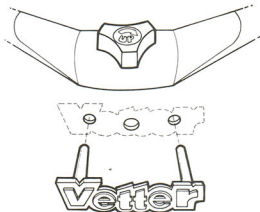
DO NOT CONNECT WIRES TO SPEAKERS AT THIS TIME



2. Place 1/2"x6"x6" shock pad on radio chassis. Do not replace the 2"x4"x4" sound suppression blocks at this time. Make certain you have identified right and left channel speaker wires. Tape wires near appropriate speaker locations on upper housing. Do not connect wires to speakers at this time.
3. After you have identified the power and ground leads, route leads thru the slot at the rear of housing. **Caution:** Mark the leads for power/ground from radio. Certain radios may be damaged if connected to reverse polarity.
4. Replace 2 phillips head screws at rear of housing and 2 black screws in front of upper housing. Do not replace screws securing speakers at this time. Install radio's front face plate, tighten mounting nuts and install control knobs.

Mounting CYCLE SOUND into Fairing:

1. For proper fit, the Vetter® emblem must be removed from the fairing dash. Remove the Vetter emblem by inserting a small screwdriver under each end and prying up gently.



*Vetter® is a trademark of Vetter Fairing Company

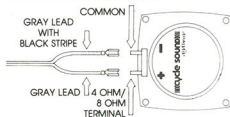
Note: The power/ground leads will feed thru a hole behind the Vetter emblem on your fairing. If your fairing does not have a hole under the emblem, it will be necessary to drill one. Reinstall emblem. Place masking tape on fairing dash under Vetter emblem. Draw around the TT area of the emblem. Remove emblem. Drill a 5/16" hole centered in the TT area. The emblem will cover the electrical hole if the Cycle Sound housing is removed.

2. Remove the two upper windshield clip nuts (5mm) and two lower outside plastic screws (8/32"), nuts and washers.
3. Mount Cycle Sound housing to fairing. Route wiring thru the hole in fairing dash. Replace the two nylon screws (8/32") and secure with two 8/32" flange nuts supplied in parts kit. Do not tighten.

Warning: Under no circumstances should a Cycle Sound housing be mounted using plastic screws in the top windshield holes. The Cycle sound housing must be mounted using steel windshield clips in all cases.

Connecting Speaker Wires to Speakers:

1. Connect the speaker wires to the speakers. **Note:** Speakers have two terminals: one common terminal (negative or ground), and one 4 or 8 ohm compatible impedance terminal. Terminal identification of (+) and (-) are located on back of each speaker magnet.



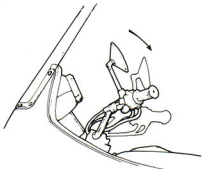
Caution: Do not solder wires to speaker terminals. This can cause damage to speaker voice coil, impair speaker performance, and void speaker warranty.

2. To test radio performance, temporarily mount speakers with one screw in upper housing.
3. Connect radio's power lead to the red cigarette lighter lead, or the brown accessory lead in fairing. Connect radio's ground lead to the black fairing ground wire.
4. Check radio for performance. Check radio's stereo balance from right to left channels. After checking radio, remove speakers, disconnect wires and leave wires suspended. Tighten mounting screws from step 3 above. Hold speaker wires and insert one 2"x4"x4" sound suppression block behind each speaker.
5. Place 3/4" bracket from parts kit on upper housing in the notch provided. Attach bracket to upper windshield clip bolt with a nut (5mm) supplied with fairing.
6. Reconnect speakers and wiring referring to step 1 above.

Installing Speakers and Grills:

1. Install the speaker and grill assembly with four black screws provided in parts kit. Refer to exploded view drawing for proper placement. **Note:** Make sure the 3/4" bracket is firmly seated in notch between the speaker and radio housing. Repeat this procedure on other speaker.

Final Inspection for Handlebar Clearance:



2. Check turning clearance by moving handlebars full lock each direction.

Warning: Motorcycle should not be operated if there is any handlebar or instrument interference. No part of the handlebars or instruments should contact with the radio housing. To obtain proper clearance, rotate handlebars back away from radio housing. On some models bar backs may be required.

HELPFUL HINTS

1. Ignition noise: Ignition noise can only enter a radio two places—the power leads or the antenna. Noise in the power leads may be filtered by using 16VDC 1000MFD electrolytic capacitor across the power and ground leads at the radio. Mount the capacitor as close as possible to the radio and observe the polarity (+) & (-) markings for correct placement. Most installations will benefit by running a separate wire directly from the battery. If this wire is coaxial cable (RG-58U) so much the better. Use the center conductor for (+) 12V power and the shield for ground. Be sure the radio case is grounded to the chassis of the motorcycle or electrical system ground. Remember, a CYCLE SOUND housing is plastic and not a conductor.

Noise entering a radio thru the antenna is much harder to eliminate. Most motorcycles already have resistor wires or spark plug caps. Little more can be done other than trying to reduce the required voltage. Do not overlook the condition of the ignition system as a cause. Worn spark plugs, bad condensers, defective coils or breaks in the plug wire may cause increases in voltage required to fire the spark plugs. Effort here may not solve your radio noise problems but the bike will probably run better.

Radio selection is important. Better radios have built-in noise limiters both on the power and antenna sections.

2. Radio Performance: CYCLE SOUND speakers have been designed to produce the most audible sound at highway speeds. The average auto radio will only produce 3½ watts of audio power, and that's at 10% distortion. Distortion levels above 1% would be considered excessive by anyone trying to listen to a radio. That really means that your typical radio will

only put out 2 watts of undistorted sound! CYCLE SOUND speakers are designed to convert as much of their 2 watts audio power into the most audible frequencies when riding. A good quality radio should be selected to secure high volume, distortion free sound. Remember, cheap radios have cheap amplifiers.

LIMITED WARRANTY

This warranty applies to products manufactured and distributed by CYCLE SOUND SYSTEMS® of Bulverde, Texas 78163, and sold by CYCLE SOUND SYSTEMS® and its authorized dealers within the United States, Puerto Rico, and the Virgin Islands. It is given to the first retail purchaser only, for a period of six months from purchase, and is not transferable to subsequent owners.

Every CYCLE SOUND radio housing is thoroughly inspected before leaving the factory. Should any trouble develop, return the complete housing prepaid to the factory. If inspection shows the trouble is caused by defects in workmanship or material, all repairs or replacement will be made without charge and housing will be returned, transportation prepaid.

This warranty does not include any labor charges for troubleshooting, removal, or installation.

This warranty does not apply where:

1. Repairs or attempted repairs have been made by persons other than factory authorized personnel.
2. Repairs are required because of normal wear.
3. The housing has been abused or involved in an accident.
4. Misuse is evident, such as caused by overloading the housing beyond its rated capacity.
5. Housing is used with improper accessory.

**NO OTHER WARRANTY WRITTEN OR VERBAL,
IS AUTHORIZED.**

(((cycle sound)))®
systems

P.O. BOX 41, BULVERDE, TEXAS 78163

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