Part 3 Installation of Wiring Harness (for full stereo)

1. The power harness contains three wires to hook up. The thick red wire with fuse is connected to positive terminal of the battery.

2. The thick blue wire is connected to the negative terminal of the battery.

3. The small yellow wire can be connected two ways.

-Connect to the positive terminal of the battery or to an always on positive power connection. This is suggested method for connecting the brown wire for simplicity. This will give you a stereo that can be played without the motorcycle key switched on. You will have to turn the stereo on and off with the radio power switch or remote. OR

-Connect to an accessory circuit wire on the bike. This wire will go to 12 Volts only when you turn the key switch to Accessory or ON position. Refer to your motorcycle service manual for your model to find the accessory circuit wire color code and circuit breaker location.

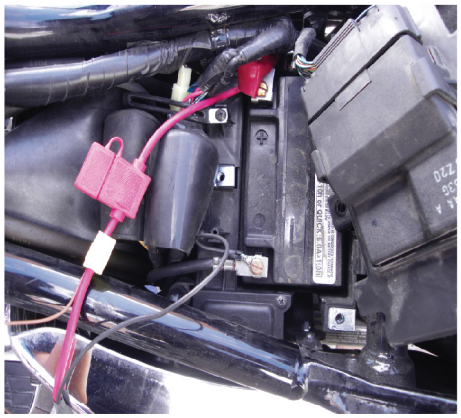

Fig. 3-1

If wired this way, the radio will come on when the key switch is turned on to run the motorcycle, and will turn on when you turn the key switch to accessory when the motorcycle is not running. You may use the wire tap (in blue or yellow color) provided to do this connection.

4. Test if the connection is correct at this time before routing the power harness, align arrows on the connector from the power harness and the fairing harness directly before go the next step. Doing this will save you a lot of time for redo this step in case there is problem with the connection, because doing wiring has higher chance burning the fuse. Turn on the key switch (if you connect the brown wire to the accessory wire), then turn on the stereo according to the radio manual provided. If the radio doesn't turn on, check again if what you did is correct, follow the troubleshooting procedures on the later section of this installation guide if needed.

5. Route the power harness under the gas tank so the end connector is at the front of the right side of the gas tank. Prevent the power harness from touching the engine, you may use the zip ties provided to hold the power harness in place along the motorcycle harness. Do not pinch or damage any wiring or disturb the factory harness. Align arrows on the connector from the power harness and the fairing harness. Push together until they bottom against each other. Turn the threaded collar until seated to lock the connector halves together.

Turn the front end fully side to side and verify there will be no problems with your choice of routing or connecting the power harness.

6 make sure the power harness doesn't interfere the closing of the battery cover, adjust the direction of the connecting rings at the battery terminals, find a way to place the power harness without interfering the battery cover. Also, make sure the fuse box and the power hardness are placed and routed properly are keep them away from the bottom of the seat.

Warning: Installation is strongly recommended to be performed by professionals. All commonly accepted shop safety precautions should be understood and followed when attempting this installation. Refer to factory service manuals for your model for information before attempting to attach any accessory to a motorcycle. It is the owners responsibility to understand and accept responsibility for installation and use of this accessory. If you are unsure of any part of the installation, stop and verify the safety of what you are doing.

Test and check periodically
After installation of the fairing and wiring harness, test for funtionality of stereo (refer to CD Player Manual), make sure all the bolts are tighten, and make sure the mounting brackets are in correct place and latched. Check all the details before riding and check periodically.

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Part 4) Toubleshooting for CD player doesn't turn on

CD player doesn't turn on is because of the ground wire, +Battery wire or/and Acc wire is/are not successfully concected to the CD player because of bad conncection or blowing of fuse(s). Carefully follow the following trouble shooting procedures to find out the source of the bad connection and get it fixed.

1) Check if the fuse is loosen or blown.

There are two fuses, one comes with the wiring harness provided, inside the red fuse box, it is located under your seat, near the positive battery terminal after installation. (Fig 4-1) Fig 4-2)
The other one is at the back of CD player. (Fig 4-3).

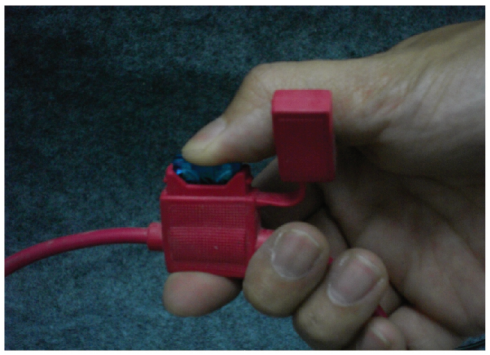
Fig. 4-1

2) Check if the socket behind the CD player is loosen.

Replace blown and make sure all sockets are plugged securely.(To access the back of the CD player, you need to seperate the inner and outer fairings by removing the top three bolts on the windshield and the two bolts at the bottom of fairing.

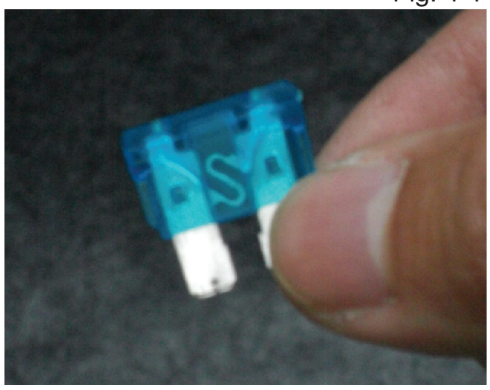
Fig. 4-2

3) Check if the Accessory wire is connected properly (the brown thin wire on the wiring harness), especially if you are using the wire-tap provided. The metal inside the brown wire has to be in touch with the accessory wire (or +ve Battery terminal) of your motorcycle.

4) If the CD player still doesn't turn on, you will need a voltmeter / general purpose multimeter to do the following troubleshooting procedures.

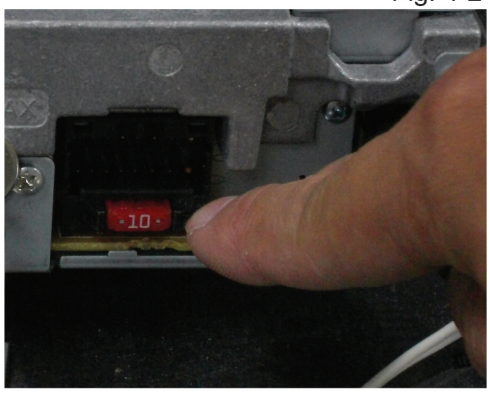
Fig. 4-3

Unplug the socket at the back of CD player, set your multimeter for measuring up to DC 15-20V voltage range(wrong setting will burn the fuse in multimeter), carefully measure directly on the socket (Fig 4-4) the voltages of:
a) yellow-black wires combination.
b) red-black wires combination.
c) red-Groud and yellow-Ground combinations, probe to any ground connected parts on your motorcycles.

Beware of shorting the wires. All wire combinations have to be 12 V or above (equal to battery voltage) in order to turn on the CD player. If any one of the above measurements is not 12V or above, you will be able to determine which wire is bad connected(+12V, Ground or Acc). Find out the location of bad connection by measuring the whole wiring harness step by step toward to battery end or the key switch end (Fig 4-5).

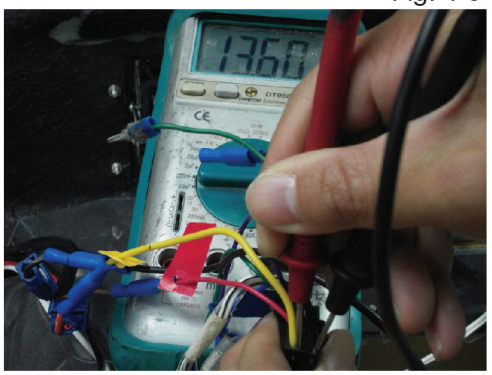
Fig. 4-4

More information about the wiring harness:
-Yellow wire on the socket at the back of CD player is positive battery wire, is it connected to the red wire of the wiring harness on your motorcycles through the three terminals plug, and should be connected to the positive battery terminal through the fuse.

-Red wire is Accessory wire, it is connected the brown wire of the wiring harness through the three terminals plug, to your key switch or to the positive battery terminal(depend on your choice of connection)

-Black wire is ground, it is connected to the negative terminal of battery, it should be shorted with the grouded frame of motorcycles.

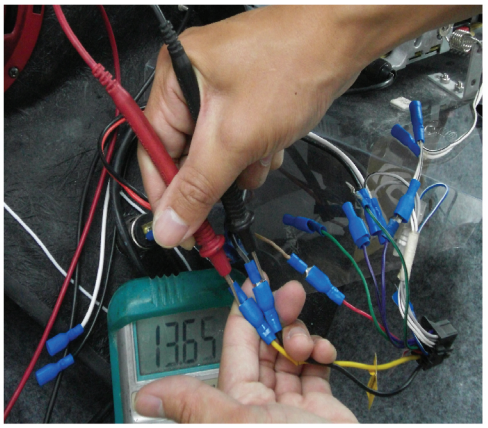
Fig. 4-5

Warning: Installation is strongly recommended to be performed by professionals. All commonly accepted shop safety precautions should be understood and followed when attempting this installation. Refer to Factory service manuals for your model for information before attempting to attach any accessory to a motorcycle. It is the owners responsibility to understand and accept responsibility for installation and use of this accessory. If you are unsure of any part of the installation, stop and verify the safety of what you are doing.

If you have any further question, additional information may be available at the FAQ page of www.tsukayu.com, or you may contact us at sales@tsukayu.com.

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