

Motorola Razr V3x Personalization Guide (MoGu V3xPG) V2.5
(Volume 3 – Hardware)



Guide to Configuring & Personalizing Your Motorola Razr V3x (v2.5)
(V3x Personalization Guide-V2-5-eb-v3-061205.doc)

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Volume 3 of 4
(Hardware)



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Very True Quote: "Read before u mod | Backup before u try | Comment after u test | Share after u learn"

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Moto Phoenix



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General Hints, Warnings, & Disclaimers

Here's some advice I give to all N00bs to our Moto community. We've found this advice to be most helpful in helping you get the answers you need without having to repeat them again, and again, and again. Most of the questions you will ask have probably been asked and answered numerous times (99.99% certain), so.....

- **Warning #1: MODIFYING YOUR PHONE WILL VOID YOUR WARRANTY. UNDERGO THESE, AND ANY OTHER MODIFICATIONS, INCLUDING THOSE DESCRIBED IN THIS GUIDE AT YOUR OWN RISK!!**
- Always Read the Forum Posting Rules Before You Post
- Always Read The "Guides" Before Posting Questions
- If tutorials are available, review them to learn how to do a mod
- Don't Post The Same Question In Numerous Threads On The Same Forum
- Always, "Search" the forums for answers before posting your questions. Do your homework first! If you get stumped-then ask. Remember, people can tell by the questions you ask whether or not you've done your homework
- READ THE STICKIES! They contain a lot of valuable information—that's why they are STICKIES!!
- Read the Moto Guides (<http://themotoguide.com>), particularly the V3x module
- Read the V3x Personalization Guide. You can get it from here: <http://earlbentley.net>
- The most important part of learning how to mod your handset is for you to do your homework first!
- **Warning #2:** Make sure you're clear on the techniques needed to mod your phone BEFORE you start the mod or you could wind up with one, very expensive "Brick".
- **Warning #3: ALWAYS, ALWAYS, ALWAYS BACKUP your original files before you start any mods!! Believe me you won't regret getting into this important habit. Use the Random Flash & Backup program, version 3.0.053 to perform your backups since it now works with the V3x.**
- In a nutshell, here's the best advice any of us can give you:

Always read before u mod | Always backup before u try | Always comment after u test | Always share after u learn

How this Guide is Setup

The V3XPersonalization Guide is now set up in 3 Volumes (Total of 13 sections):

- **Volume 1:** Mods, Skinning, Audio/Video, and Basic Terms and Definitions
- **Volume 2:** Java
- **Volume 3:** Hardware
- **Volume 4:** Q&A, Additional Terms and Definitions, Error Messages, WAP Settings, Miscellaneous Info

Some of these instructions are redundant and in different formats. That's because this information was compiled from numerous sources/threads/guides prepared by many modders which can be found on Motomodders.net, Howardforums.com, and PlanetMotox.net. Because people process information differently, the redundant presentation of information may help many modders fully understand the tasks that are described. I've modified some of the information to fit my personal situation (what I did, what tool I used, etc.). I take no credit for figuring out the MMS Receive solution. All that credit goes to the people I've cited as contributors on the front of this guide and in the text itself. BTW: These instructions are for a Microsoft Windows XP, SP2 environment. I don't own a MAC so I don't cover MAC configurations—at least not yet.

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1. Hardware (Outside) Modifications (Kunzi_n)

1.1 Modifying a Rubber Cap for the Mini-USB data port (Courtesy of Kunzi_n)

For the rubber cap you will need:

- Scissors
- Emery board
- Nail buffer (with multiple surfaces)
- 1 Hiikori rubber caps for the PSP (lik-sang.com)



First take one of the headphone caps that looks like the one second from the top and cut (only twice one on either side DO NOT cut the bottom or top) it to look like the one on the top (Careful you can always cut more).



At this point it should fit (snugly if you plan to make it look nice too).

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Now it is just a matter of sanding off the letters and then buffing it one stage at a time until it looks like this...And you are done!!!



1.2 Splicing and Changing the Wired Headset (Kunzi_n)

3.5mm Adapter Mod (with mic)...connects anything with a 3.5 (standard headphone jack)

Just a quick rundown of the uses. I can connect my phone to a home stereo (using a headphone to RCA adapter). I can connect to any car stereo using a tape shuttle or a radio transmitter. But best of all you can answer calls and they come through the stereo.

First what you need:

- 1 Original Motorola wired STEREO headset.
- 1 Standard Sony extension cord (it has a small 3.5 female piece)
- Scissors
- Soldering Iron
- Solder
- Soldering paste
- Hot Glue Gun
- Hot Glue
- Super Glue
- A Steady Hand!

Ok First thing to do is find the length that you want the adapter (mine is about 18 inches so I can use the mic). Give yourself about an inch to work with and then give 'er a snip.

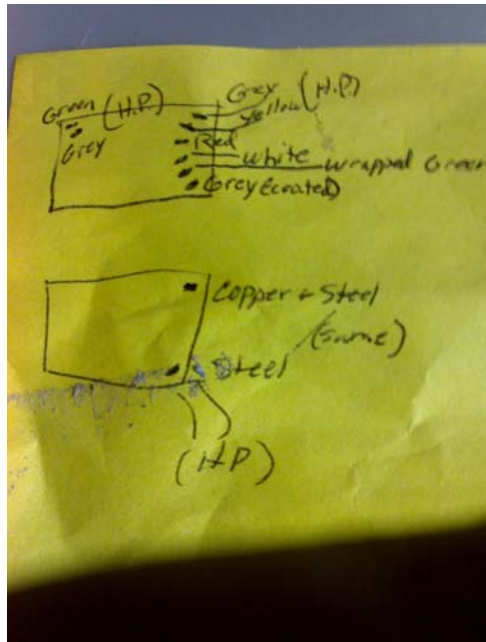
Next, you need to get the 3.5 female piece off of the extension so cut it at around two inches and then remove the covering on the wire and the female piece.

Now you need to CAREFULLY open the mic housing and remove the Circuit Board (CB). It should look like this (with a round raised mic, on the top, to the left of the PbF on the CB).

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Now strip all wires and make a chart of what colors go where so you can re-attach the wire where you cut it. Here is my chart (very simple).



Now heat up the soldering Iron and connect the main wire to the six points on the bottom like they are in your chart (including splitting the silver and connecting it with the copper wire) leaving the two on the bottom and two on the top for the headphone jack. Now solder one extra wire to the female piece on the copper wire (you should have two copper and one green and one red wire). Solder the copper wires to the points that were gray wires for the headphones and solder the green one to the bottom and the red one to the top. Now test it!



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Now the hard part. Carve out the bottom of the black housing where the main wire came in so that the female piece fits in there (I carefully shaved down two flat sides on the female piece so it would fit better) and super glue it to the bottom of the housing only (use glue sparingly it is powerful stuff and can burn the black plastic to white if you use too much). Now superglue the bottom of the CB (only the flat black Circuits) to the top of the female piece.

Now heat up the Glue Gun and fill the bottom of the housing with silicone (make sure to test before you continue so you know there are no wires touching). Now attach them to (make sure the button is lined up and clicks) and fill with silicone (hot glue) being careful to only seal it near the button and not stop the button from working. Your finished product should look like this (I added a little wire clip so that when I get a call I can attach it to my headphone wire right next to my mouth)!



*****For the headset splicing you will need:

- Scissors
- Soldering Iron (3-7 dollars)
- Solder and solder paste (2 dollars)
- Wired headset for your V3x
- Any other headset that you like the earphones on!
- Hot Glue Gun (5 dollars)



First you need to clip the headset and headphones (4 cuts) at the length you want them (don't worry about matching R and L, the Sony earphones that I used had a shorter R than I wanted so I connected R to L and vice-versa. Leave yourself about $\frac{3}{4}$ of an inch extra on each one...And strip that extra part of it's cover (careful not to cut too deep when stripping or you will cut the wires and the less you have the less sound gets through)

Now for the fun part, twist the wires together real good and then start to heat them up with the iron. While doing this dip the solder (wire) into the paste and you should be ready. I recommend a soldering iron because many earphones have individually wrapped wires and you cannot get a good connection unless you heat them. When you touch the solder to the tip of the iron it will melt right away and you only need a little. The wires have to be hot for the solder to stick to them. This will take some time to get right so go slow until the wires look connected on all sides.

Now cover one wire with a small layer of hot glue (it will dry in about a minute) and then hold the covered wire and the bare one together and glue from $\frac{1}{4}$ inch of the covering on each wire (keeping the stress on the glue and coverings and not your soldered area).

And that is it--they should look like this!