



INSTALLATION INSTRUCTIONS

UNITRONIC WIDEBAND CONVERSION HARNESS

UH001-AC1

Unitronic recommends that you read through the entire installation instructions prior to beginning the installation to familiarize yourself with the included components, tools required, and procedures involved with the installation.

DISCLAIMER: Unitronic recommends that a Unitronic Authorized Dealer or other qualified and trained professional should perform the installation of this product.

Unitronic Installation Instructions are also available in digital format, if you prefer. Please visit the corresponding product page for a link to download the digital Installation Instructions. www.getunitronic.com

PACKING LIST:

PART NUMBER	DESCRIPTION	QUANTITY INCLUDED
UH001-AC1	Unitronic Wideband ECU Conversion Harness	1

RECOMMENDED TOOLS NEEDED:

- Wire cutters
- Flat-Head Screwdriver (small)
- Terminal pin removal tool
or a small sharp pick





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PREFACE:

We will assume that you are familiar with where your ECU is located in your vehicle, how to get to it and remove it from your vehicle. Once your ECU is removed, you can now proceed with installing your Wideband Conversion Harness.

- 1** Locate the main ECU connector (81-pin connector). It is the larger of the two ECU connectors. (See Fig. A)
- 2** Remove the zip-tie holding the protective cover on the 81-pin connector using your wire cutters. (See Fig. B)
- 3** Push inward on both sides of the base of the cover to release/unlock the cover for removal. (See Fig. C)
- 4** Once the cover is removed, pull the pink plastic tab between the wires. (See Fig. D)
- 5** Next, locate the pink tab on the side of the 81-pin connector and pull it outward to release the wires. (See Fig. E)
- 6** Now, pull the bottom of the wires loomed in the harness to remove the wires out of the connector housing. (See Fig. F)
- 7** Remove the blank terminal on wire pin #52 (9th from the right) using your terminal pin removal tool or small sharp pick. Push upward on the blank terminal to unlock it and remove. (See Fig. G)



FIG. A



FIG. B



FIG. C



FIG. D



FIG. E



FIG. F

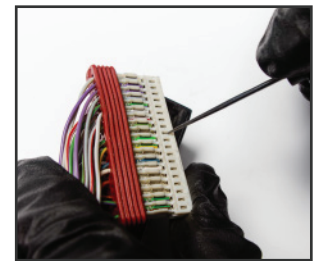


FIG. G



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- 8** Once removed, insert the wire on Unitronic's Wideband ECU Conversion Harness labeled "52" (brown wire) on the wire end into pin #52 of your wiring harness. (Same terminal you removed the blank from in Step #7.) (See Fig. H)

NOTE:

You might find that using a small flat-head screwdriver may help in fully pushing the terminal into the connector to get it to lock in place. The terminal must sit flush with the plastic housing. (See Fig. I)

- 9** Repeat Steps 7 and 8 for pin #71. Again, please ensure that the terminal is fully seated into place prior to moving onto the next step.

- 10** Next, you are now ready to reassemble the 81-pin connector. Start by re-inserting the wires into the connector housing (See Fig. J)

- 11** Re-install the pink tab between the two wiring connectors. (See Fig. K)

- 12** Slide the pink locking tab back into the side of the 81-pin connector, ensuring that it locks the two wiring connectors in place. (See Fig. L)

NOTE:

If wiring connectors are not fully seated properly into place in the connector housing, the pink locking tab will be difficult to install. Ensure wiring connectors are fully seated prior to inserting pink locking tab.

- 13** You can now re-install the protective cover, shielding the wiring coming from the 81-pin connector.

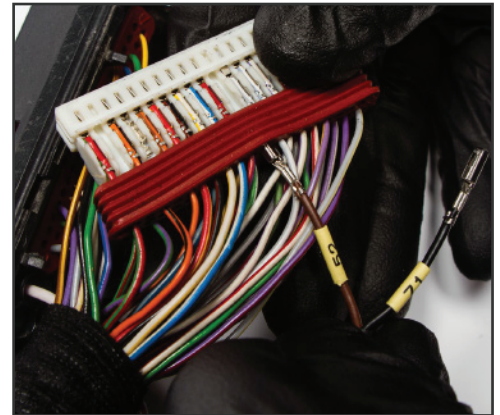


FIG. H



FIG. I



FIG. J



FIG. K



FIG. L



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ATTENTION:

If your vehicle is NOT equipped with Variable Valve Timing (VVT), follow these next steps to install the VVT resistor for non-VVT equipped engines.

- 14** Locate the small ECU connector (40-pin). It is the smaller of the two ECU connectors.
- 15** Remove the zip-tie holding the protective cover on the 40-pin connector using your wire cutters. (See Fig. M)
- 16** Push inward on both sides of the base of the cover to release/unlock the cover for removal. (See Fig. N)
- 17** Once the cover is removed, use your terminal pin removal tool to remove the small plug from pin #115. (See Fig. O)
- 18** Using your flat-head screwdriver, remove the pink side locking tab holding the wiring connectors in the harness housing. (See Fig. P)
- 19** Insert the wire labeled #115 (red) on Unitronic's Wideband Conversion Harness into pin #115 of the 40-pin ECU connector. (See Fig. Q) You will hear a "click" once the terminal is fully seated in the connector.



FIG. M



FIG. N



FIG. O

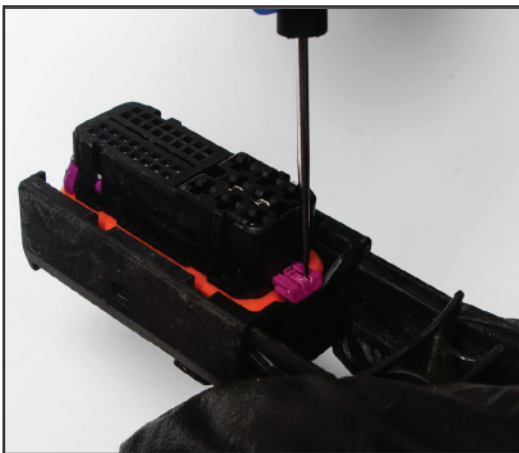


FIG. P



FIG. Q



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- 20** Re-install the pink locking tab on the side of the 40-pin connector. Again, if the wires are not fully seated, it will be difficult to re-install the pink locking tab. **(See Fig. R)**
- 21** Re-install protective cover. **(See Fig. S)**



FIG. R



FIG. S