# Adjustable Vehicle Speed Sensor (VSS) Converter

Features:	Parts included with full kit:
• Converts 05+ VSS signal to 02-04 specs. • Can be wired into the Type-S 02-04 A2 harness or 05-06 Z1 harness. • Preset for 23" tall tire (size 205 50R15) • Adjustable 10% +/- for speedo correction.	• VSS converter unit • 4-wire plug-in harness • Plug-in jumper clip

![K-TUNED RACE PROVEN logo]

The K-Tuned VSS converter is designed to be installed on the interior of the car where the ecu plugs into the engine harness. Please see notes on the bottom of this page if you are installing our S2000 cluster specific unit.

Installation on the 02-04 Type-S A2 harness:

1) Connect the RED wire on the K-Tuned Speed Converter to the oem YEL/BLK wire from ecu plug A3. This will supply the unit with an Ignition (Key On) power source.

2) Connect the BLACK wire on the K-Tuned Speed Converter to the oem BLACK wire from ecu plug A4. This will give the unit a ground.

3) Locate the oem WHT/GRN wire coming out of ecu plug A18. Follow this wire up the harness and you will find that it actually divides into 2 WHT/GRN wires on the ecu side. You will need to remove the tape on the factory harness to find this connection. NOTE: The wire divides at a crimp connector under a piece of blue tape.

5) Cut out the crimp connector and connect the WHITE wire on the K-Tuned Speed Converter to the single WHT/GRN wire that leads towards the engine side of the wire harness. This is the VSS signal input.

6) Connect the BLUE wire on the K-Tuned Speed Converter to both of the WHT/GRN wires leading towards the ecu side of the wire harness. This is the VSS signal output to the ecu and the dash cluster.
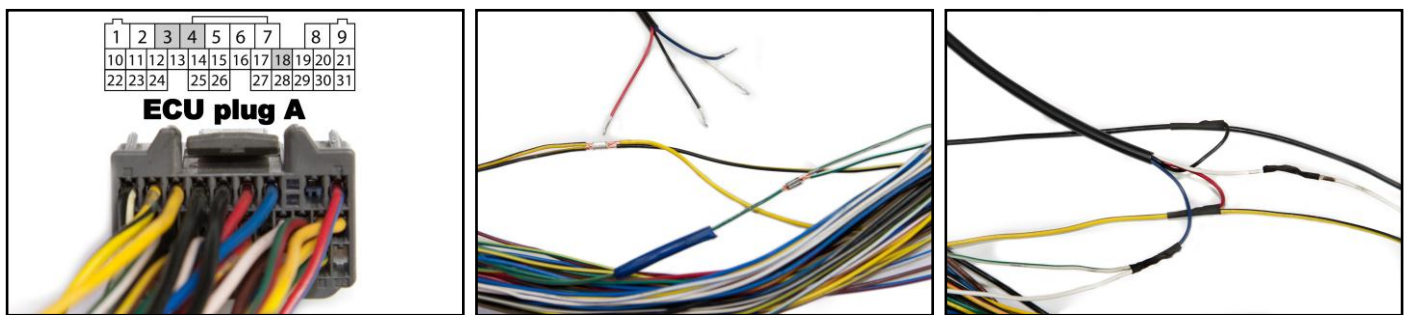
02-04 VSS PLUG MODIFICATION

A few things need to be modified to allow the 02-04 VSS plug to fit in the 05+ VSS sensor:
Remove the 05+ VSS sensor and shave down both sides of clip. You can use a file to do this very easily.
Next, the white pin guard and insulator need to be removed from the plug in order for it to fit the 05+ VSS sensor.
Lastly, you need to rewire the 02-04 VSS wires/pins as shown below and extend the wires to reach the 05+ VSS sensor on the front of the transmission case.

OEM pin locations: 1 - BLK (ground), 2- BLK/YEL (power), 3 - WHT/GRN (signal)
NEW pin locations: 1 - BLK/YEL (power), 2 - WHT/GRN (signal), 3 - BLK (ground)
These wires are very easy to de-pin and move around.

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Installation on the 05-06 Type-S Z1 harness:

1) Connect the RED wire on the K-Tuned Speed Converter to the oem YEL/BLK wire from ecu plug A3. This will supply the unit with an Ignition (Key On) power source.

2) Connect the BLACK wire on the K-Tuned Speed Converter to the oem BLACK wire from ecu plug A4. This will give the unit a ground.

3) Locate the oem SOLID BLUE wire coming out of ecu plug A18. Cut this wire 3 to 6 inches away from the plug.

4) Connect the WHITE wire on the K-Tuned Speed Converter to the oem SOLID BLUE wire that leads towards the engine side of the wire harness. This is the VSS signal input.

5) You will need to run a new wire from pin 3 on the large gray C101 plug. If you do not have a spare pin to use for this you can cut the wire on the other side of this plug and simply join them together.

6) Connect the BLUE wire on the K-Tuned Speed Converter to the SOLID BLUE wire leading towards the ecu side of the wire harness and the new wire coming from pin 3 on C101. This is the VSS signal output to the ecu and the dash cluster.

NOTE: With the 05-06 Type-S Z1 harness no rewiring of the VSS is needed.

INSTALL CHECK

Anytime the ignition is turned on the unit will give one quick flash of both red and green. This indicates that the Speed Converter unit is operating properly. At this point recommend that you to test drive your car to confirm that your speedo is operational.

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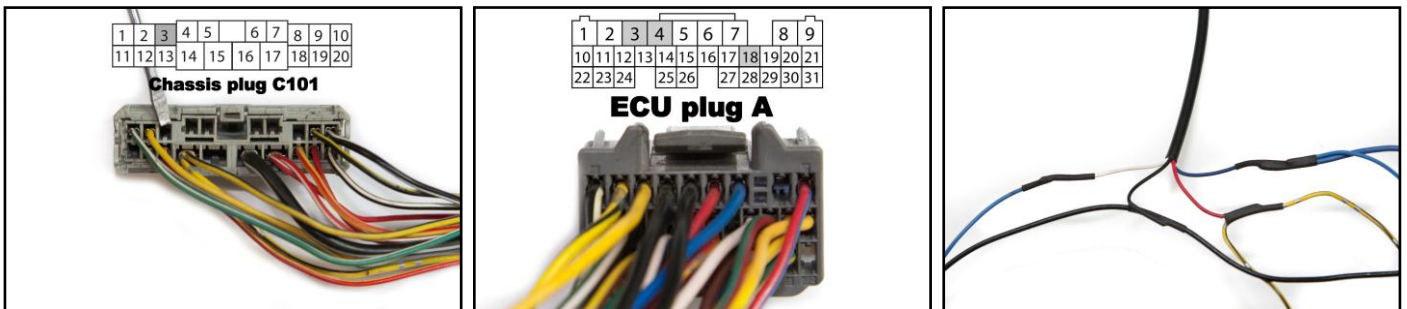
ADJUSTING THE UNIT

NOTE: The unit comes with default settings that should be quite accurate with any 23" tall (205 50R15) tire. However, if you notice your speedo is off you can choose to adjust the up or down by up to 9.9%

To adjust this unit accurately you must first obtain an accurate correction percentage. Let's say your GPS reads 55 mph but your speedo is displaying 60 mph you need do the following calculation : ((55 / 60) x 100) – 100. This will give you a correction percentage of -8.3 (negative value)

*You must remove the two tap screws on the back of the unit to access the white button to adjust the unit.

1) To adjust the unit press and hold the white button until you see 2 green blinks then release.
2) The unit will now give alternating flashes of red and green.
3) Push the blue button again, if you want to adjust the unit to read higher, release the button when the green light flash comes up. Alternatively, if you want to adjust the unit to read lower, release the button when the red light flash comes up.
4) The unit will again give alternating flashes of red and green. It is now waiting for you to enter the first digit of a 3 digit numeric correction value with one decimal place (Example: X . X) This number will be your correction percentage.
5) Hold the button and count the blinks. 10 is zero. Release the button after the desired number of blinks.
6) Repeat this for the second digit. (Example: If you enter 9.9 this will be a 9.9% correction)
7) After entering the second digit, you will see one orange blink to confirm the data was saved to memory.

RESETTING THE UNIT

1) With the car off, press and hold the white button on the converter box.
2) Now at the same time, insert and turn the key to the "ON" position, DO NOT START continue holding the button)
3) The unit will flash one orange blink to indicate that it has been reset to the original default settings.

S2000 CLUSTER SPECIFIC (*Important)

NOTE: If you are using an 02-04 transmission with 02-04 ecu, you will only need to install the VSS converter on the wires going to the instrument cluster. This is because the 02-04 trans and ecu already match each other. Only the S2k cluster needs a different signal to operate.

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