**14CUX 4.6 high performance chip installation**

There are four torx head screws that have to be removed to access the circuit board inside of the ECU. Use the size T20 torx type Allen wrench to remove the four screws. Note the rubber seal between the two clamshells.

The chip that you are going to replace is underneath the plastic cover that says “LUCAS”. Use a large pair of pliers to remove the plastic cover. You will discard the plastic cover so no need to worry about damaging it. But be careful not to damage anything other than the cover.

Note that there is a notch on one end of the chip you are going to remove. There will be a similar notch on the chip socket. Use the IC extractor to pull the chip out of the chip socket by the ends. Just be careful and it should come out easily.

The pins on your HP chip have been performed to fit in the socket easily. The pins are delicate when not in the socket. Be very careful when handling the chip not to bend a pin. If a pin on the chip does get bent, most of the time it must be straightened and realigned with all the other pins.

**Make sure the notch on the chip and the notch on the socket are aligned** and all the pins are aligned before you push the chip into the socket. If one of the pins is bent, you will have stop and straighten it before pushing it into the socket.

No need to replace the plastic chip cover. Align the rubber gasket as best you can. The gasket tends to get squished and messed up. Do not worry about it if it is not perfect. Replace the four screws hold the clamshells together. Install ECU on your vehicle.

Idle speed will be 900rpm in neutral or park; 800rpm while in gear. Reset your base idle to ~750 for best performance when the vehicle is not moving. You should set at ~850 for manual transmission. Only set the base idle when the engine is at full operating temp. Full operating temperature is caused by driving. If you try to set the idle speed on a vehicle that has not been driven immediately before resetting, the base idle speed will be wrong for when you are driving at full operating temperature.