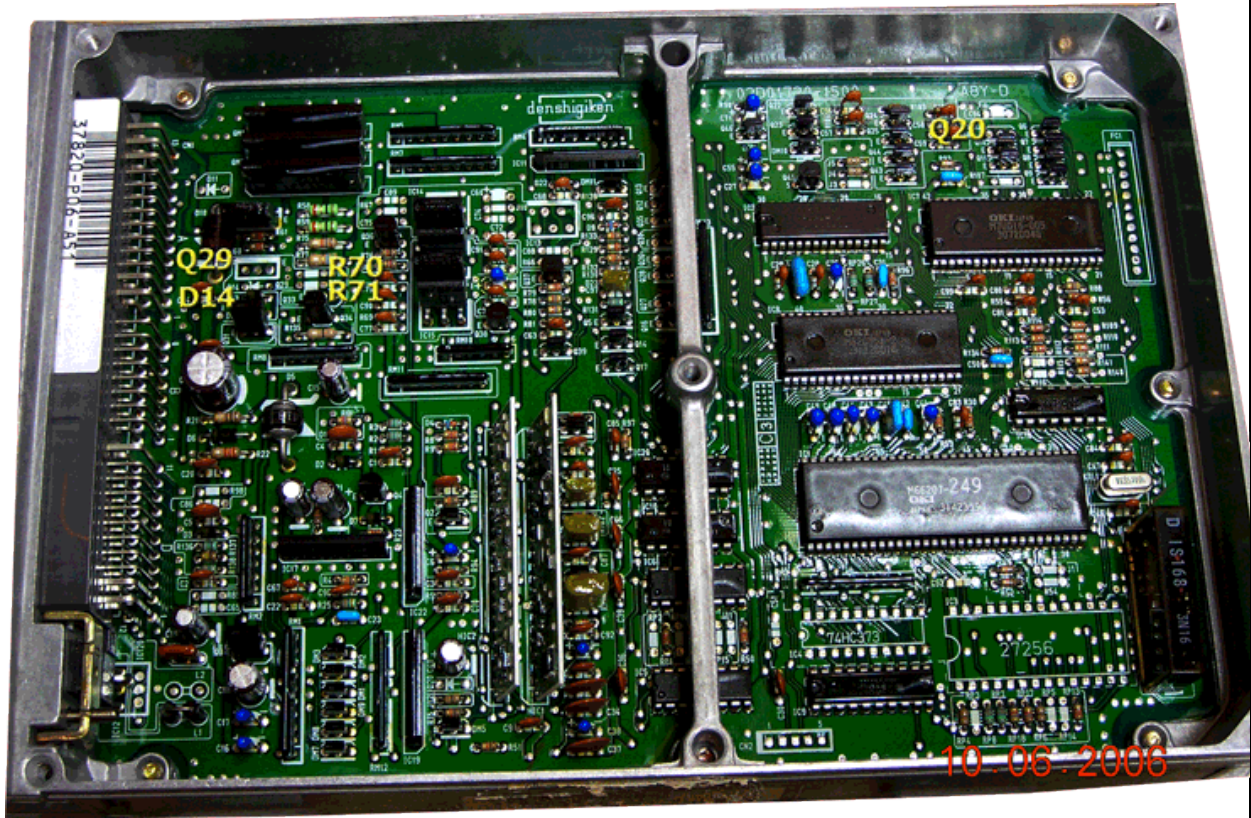


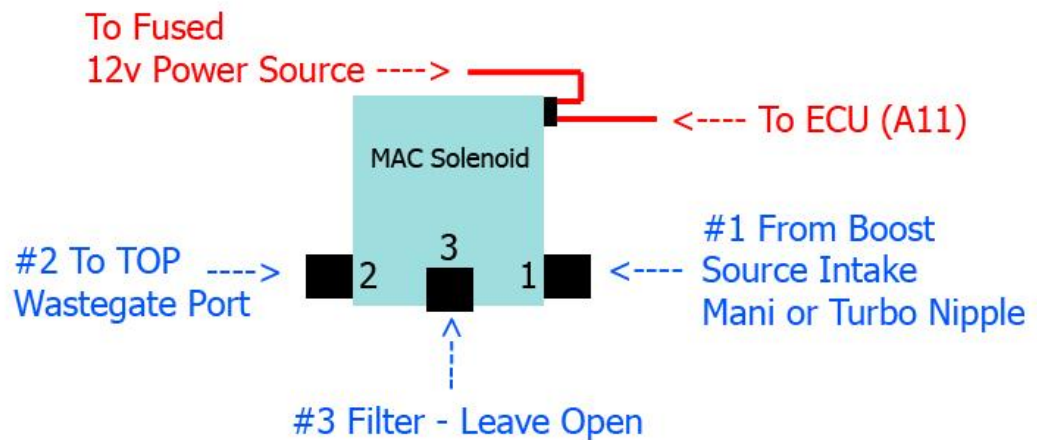
# Xenocron Tuning Solutions

## PWM Boost Control Solenoid Setup Instructions for OBD1 Hondata S300 or Neptune RTP

Install the [PWM Solenoid Components](#) to your ECU in the Following Locations



Install the solenoid you purchased according to these diagrams.



Make sure you have a direct pressure source going to the SIDE PORT of your External Wastegate as well.

## Hondata S300 Software Setup

Setup your solenoid configuration like this

Enable boost control (PWM) on output A11 should be checked

The solenoid configurations above are for a Normally Closed setup

Solenoid activation must be slightly below what your Wastegate spring is rated for

Start with a small Fixed Duty Cycle and gradually increase it to increase boost while noting what boost pressures are achieved at various Duty Cycle Percentages

Set your Pressure vs. Duty Cycle according to these boost pressures you saw as you increased duty cycle. From there you can set Boost By Gear.

For the Air temperature compensation table, as IATs increase or decrease, the solenoid will react differently...you can account for this with these settings. Various solenoids will react differently in this table as some are more stable than others.

## Neptune RTP Software Setup

Setup your solenoid configuration like this

Parameters: New File - HRT Base v1

- ⊕ Main Settings
- ⊕ Fuel/Ignition Corrections
- ⊕ 3-Step Settings
- ⊖ Boost Settings
  - Boost Cut
  - Boost Control
  - PWM Setup
  - Gear Target PWM
  - Gear vs RPM PWM
  - PWM Corrections
- ⊕ Outputs
- ⊕ Sensor Adjustments
- ⊕ Anti-Theft
- ⊕ Extras
- ⊕ On Board Logging

PWM Setup

Enable PWM

JDM ECU PWM (+12v on A17)

Low/Hi Input:

Invert Input

Hold Duty Cycle At:

Until This Load (PSI):

Type

Invert (Check For Normally Closed)

Frequency

Set Duty Cycle

Low Duty Cycle:

High Duty Cycle:

Note: When using a JDM ECU, make sure to disable IAB Output in the IAB Activation Parameters. Also note that the output on A17 for PWM on a JDM ECU is +12v and not a ground.