Nistune Base Image Programmer – Users Guide

For Revison 2 – 4 Base Image Programmers

(Parallel Port Version)

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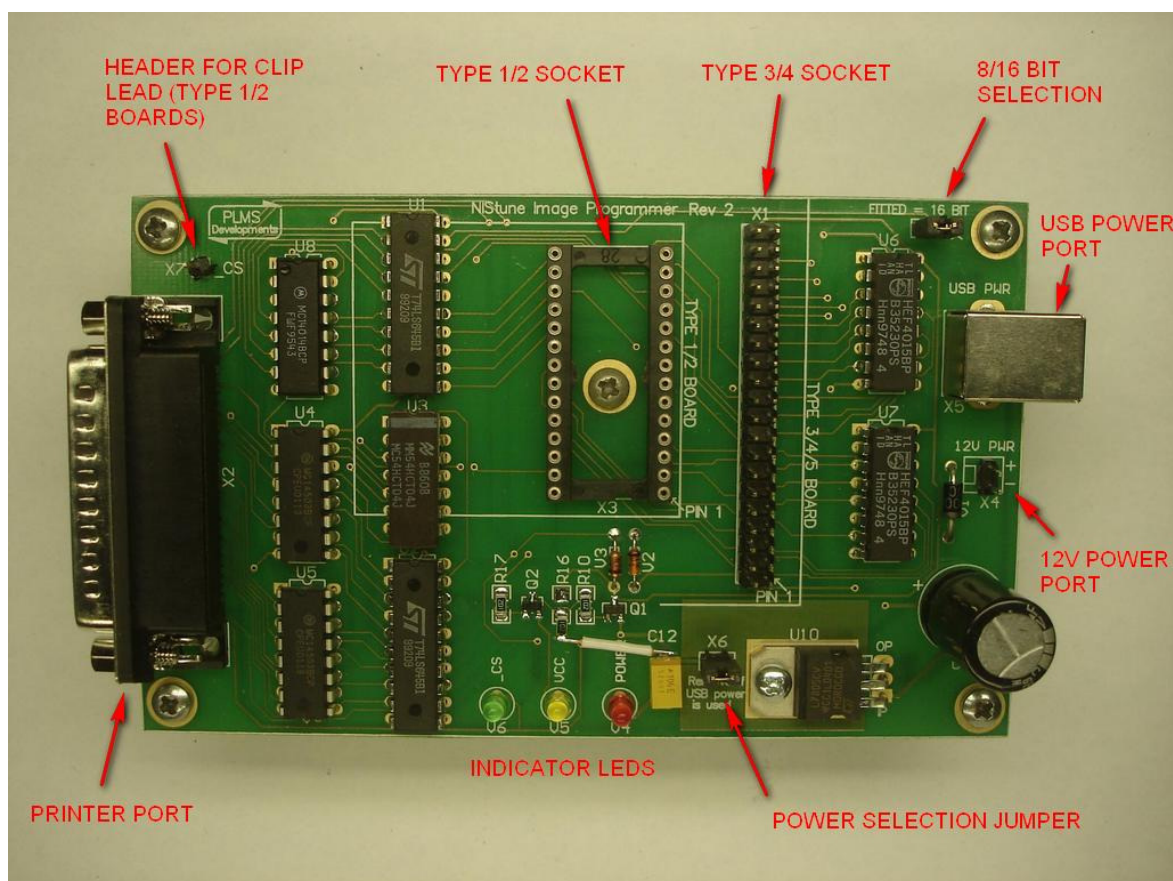# INTRODUCTION

Base Image Programmer

All Nistune real-time boards require the "base image" to be programmed before they can be used. This is normally done during manufacture – and cannot be changed by the end user.

Professional tuners who purchase multiple boards may find it necessary to change the base image, so we have made the programmers available for this purpose.

The programmers are driven from the parallel (printer) port of a laptop/desktop PC. Power is provided separately and may be taken from either an external 12V source (8V to 18V is acceptable) or from a USB port.
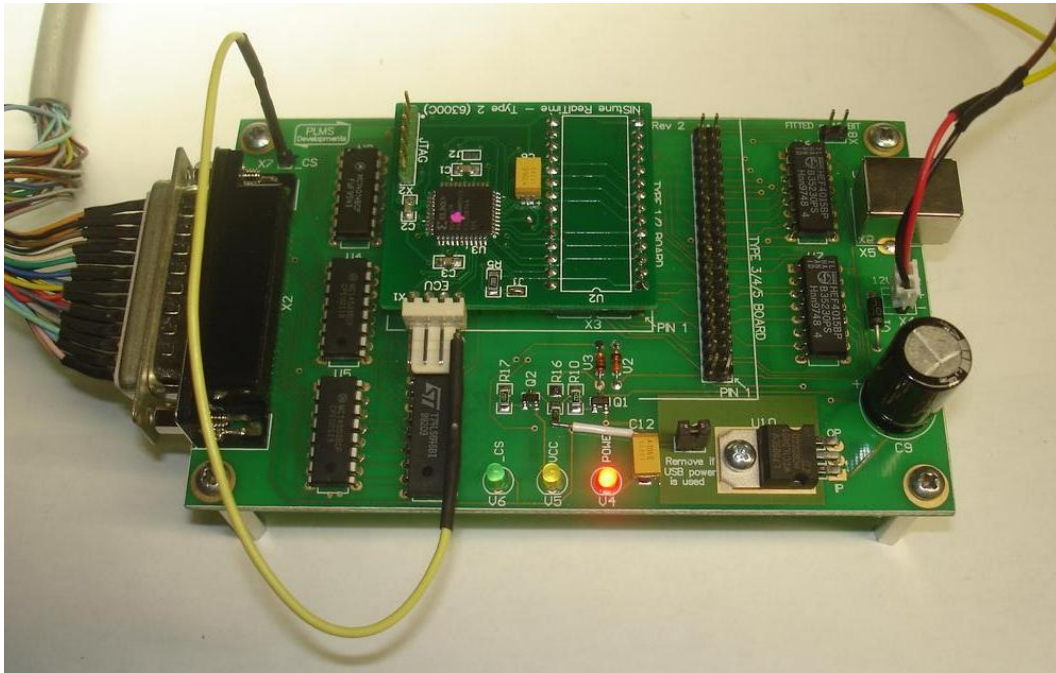
All boards must be programmed with custom files provided. These files will have the extension ".ent"

eg: "S14_SR20DET_74F00.ent".

Indicator LEDs		
V4	Red	Programmer Power
V5	Yellow	Board Power
V6	Green	Data Transfer

Programming 8 Bit (Type 1 & 2) boards

1. Before fitting Nistune board to programmer, fit "program" solder link J1.

    ** Do NOT attempt to solder the link after the board is fitted to the programmer **

2. Connect printer cable (not supplied) between computer and programmer.
3. Boot up computer, start NTprog application and open .ENT programming file.

4. Connect power to programmer (fit link X6 if 12V external power is used)
5. Verify that "Power" LED V4 is on.
6. Ensure jumper X8 (selects 8/16 bit mode) is NOT fitted.
7. Fit Nistune board to be programmed.

** Be careful with the pins when fitting board to programmer as they are easily damaged **

8. Fit a clip lead between programmer X7 (_CS) and X1 pin 4 of the Nistune board.
9. Press "Write 8 bit"-
    - VCC & _CS LEDs will light as programming takes place.
    - Progress bar will indicate that programming is happening – it takes about 10 seconds.
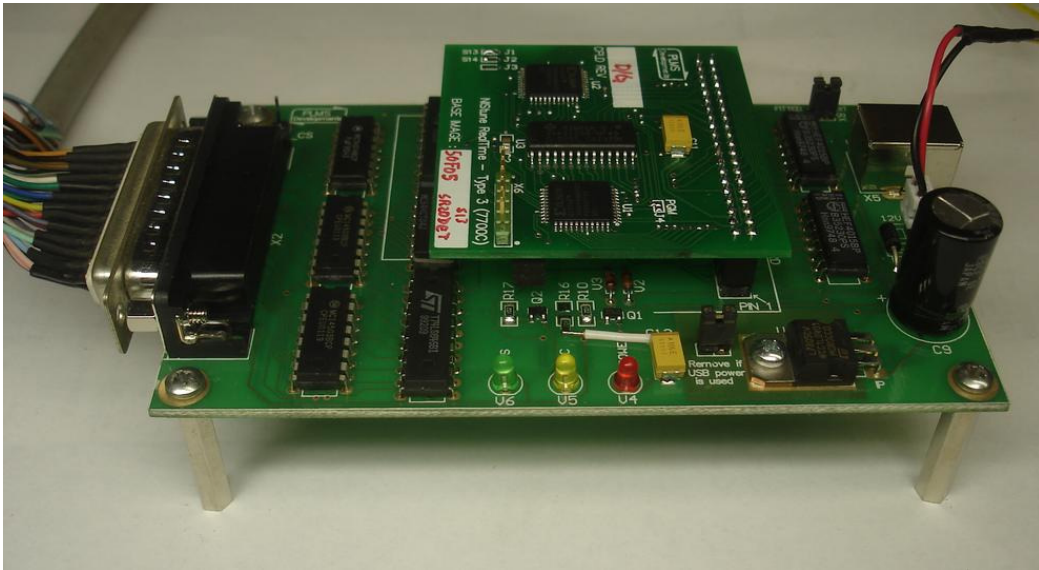
- Once programming is complete VCC will momentarily be removed.
- Verification then takes place – this takes about 5 seconds.

10. Programming is now complete.
11. Remove board from programmer - make sure VCC LED is off before removing.
12. **Remove "program" solder link J1 – don't forget this step or the board will not run in the ECU.**

1. Programming 16 Bit (Type 3 & 4) boards

1. Before fitting Nistune board to programmer, fit "PGM" solder link. Ensure that no other links are fitted.

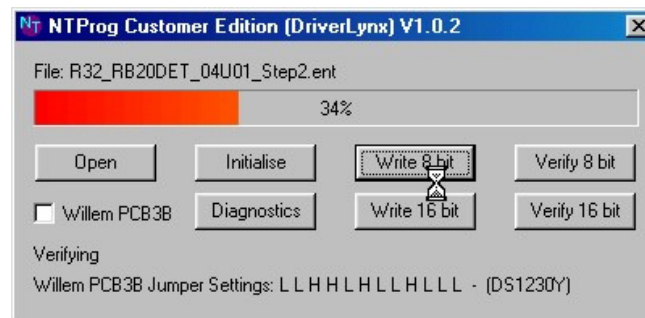   **** Do NOT attempt to solder the link after the board is fitted to the programmer ****

2. Connect printer cable (not supplied) between computer and programmer.
3. Boot up computer, start NTprog application and open .ENT programming file.

4. Connect power to programmer (fit link X6 if 12V external power is used)
5. Verify that "Power" LED V4 is on.
6. Fit jumper X8 (selects 8/16 bit mode).
7. Fit Nistune board to be programmed.
1. Press "Write 16 bit"-
   - VCC & _CS LEDs will light as programming takes place.
   - Progress bar will indicate that programming is happening – it takes about 15 seconds.

- Once programming is complete VCC will momentarily be removed.
- Verification then takes place – this takes about 10 seconds.

2. Programming is now complete. Make sure VCC LED is off before removing board.
3. Remove "PGM" solder link **– don't forget this step or the ECU will not run!**
4. Fit solder link(s) J1, J2 J3 to select ECU type - see Hardware Install Manual for jumper selection info.

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