

# Toyota/Lexus Smart System ID Code box reset

## I. Getting Started

### Introduction

The following documentation relates to Barracuda software version 19 (September 2021). The system allows to **reset** ID Code box of Toyota/Lexus smart system vehicles 2013+.

Reset of **both** ESL and ID code box allows resynchronization via standard Toyota diagnostic procedures (Techstream) and thus solve all keys lost situation for these vehicles by replacing the Certification ECU (Smart box) with a new one that has at least one paired key. Alternatively a second hand Certification ECU that matches the type / part number and is pre 2017 (**not** locked, **P1 88 A8 A9 AA**) can be used in conjunction with [Tango+ for Toyota/Lexus Smart Key Systems OBD Framework](#) to create an emulator on the bench and synchronize it with the reset ID code and ESL.

#### System requirements:

- [Barracuda programmer](#)
- [Barracuda Adapter H-Immo](#)
- [Barracuda activation ID Code & ESL reset activation](#)

### Barracuda Adapter H-Immo



## II. Operation Procedure

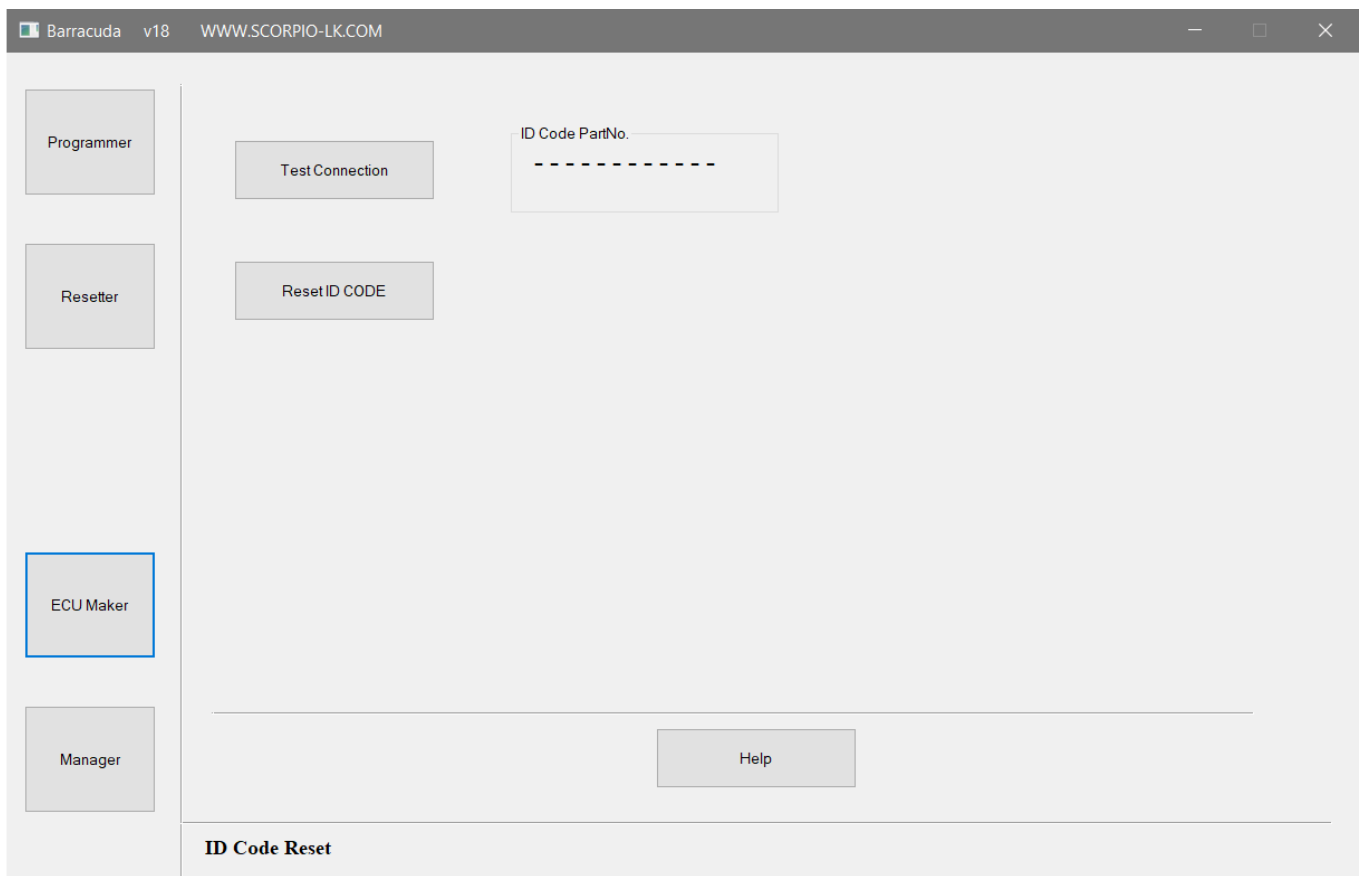
### Connection Diagram

1. **Disconnect** vehicle's Certification ECU (Smart box)

2. Connect Barracuda H-Immo adapter to vehicle's LIN line by accessing it through the ESL's (Electric Steering Lock) connector. Locate and unplug it then connect as shown on the diagram



3. Start Barracuda software and select ECU Maker->Toyota->ID Code Reset



4. Press **Test Connection** to verify wiring then proceed with **Reset ID CODE**

## Connection Diagram for workbench



## III. Addendum

### Barracuda Power Supply

In order to operate Barracuda requires 9-24V DC supplied to its 5.5x2.1mm center positive plug. When working mobile this can be easily achieved by using a Step-UP (5 to 9/12/24V DC) connected to a power bank, laptop USB port or getting 12V DC from a vehicle's lighter or other power supply port.

