

AST (AUTO START TOYOTA) v3.0

Toyota / Lexus emergency engine start unit

AST v3.0 unit is designed for emergency engine start on Toyota and Lexus passenger vehicles in case of key authorization unit malfunction or keys loss. AST unit is used as temporary element for emergency vehicle transportation and not intended to use permanently.



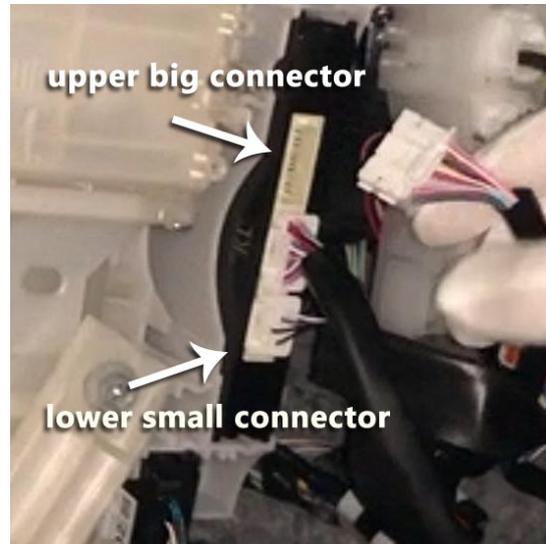
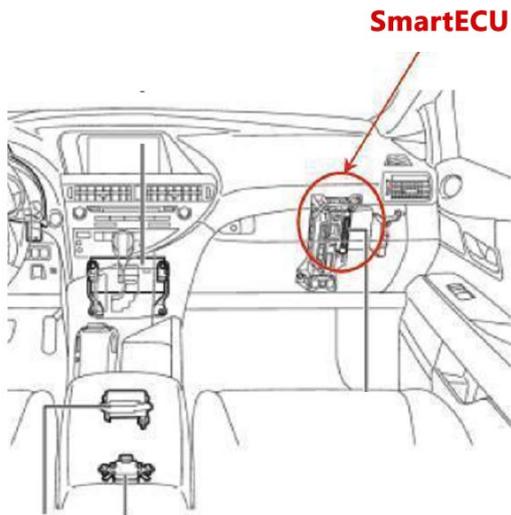
Supported vehicles:

Toyota/Lexus: All models (till 2017-2018 MY)
except New Prado and LS 500H.

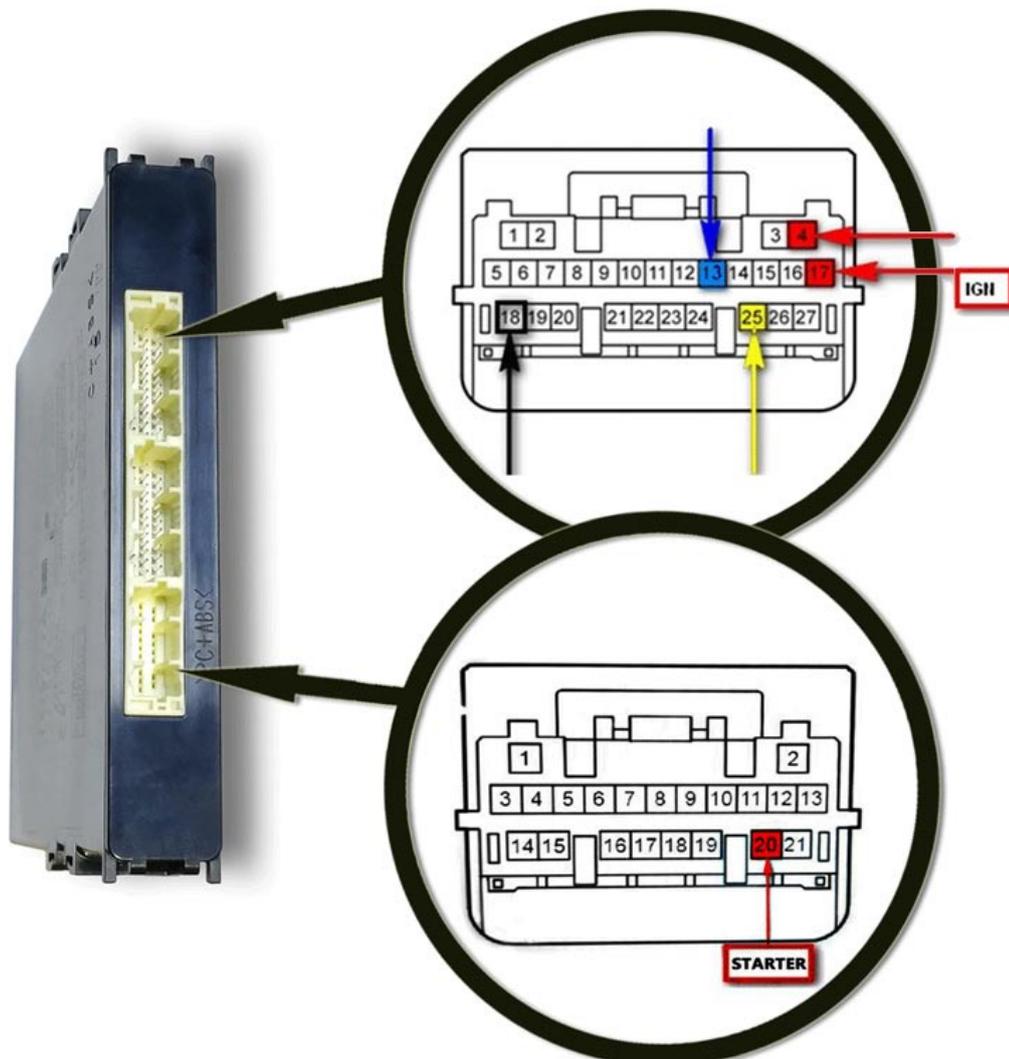
Operation sequence (step-by-step instruction)

1. **Unplug all connectors from Smart ECU!!!**
2. Connect the needle probes to the upper SmartECU connector (large connector) and the lower SmartECU (small connector) in accordance with the figure, **but without connecting the red needle** to the 20th pin of the lower connector (for Lexus RX, NX) or 12 pins to the lower connector (for Lexus LX, T200 **except New Prado and LS 500H**). (See Fig 1)
3. The LED on the unit is **flashing green**, it means the wires is connected correctly, you can continue the procedure.
4. Press the button on the device. The LED will light **yellow**.
5. Press the button again, the green LED lights up and the steering latch unlocks.
6. Ignition and engine starting (*except the hybrids). Connect the red needle probe to the lower SmartECU connector for 3 seconds and start the engine. After starting the engine, turn off this needle probe.
 - **20th pin** of the **lower** SmartECU connector (for Lexus RX, NX);
 - **12th pin** of the **lower** SmartECU connector (for Lexus LX, T200).
7. * For the hybrids (Lexus RX 2017) the lower SmartECU connector is missing. To start the engine connect the red needle probe to the to **27th pin** of the **upper SmartECU** connector for 3 seconds. After starting the engine, turn off this needle probe.

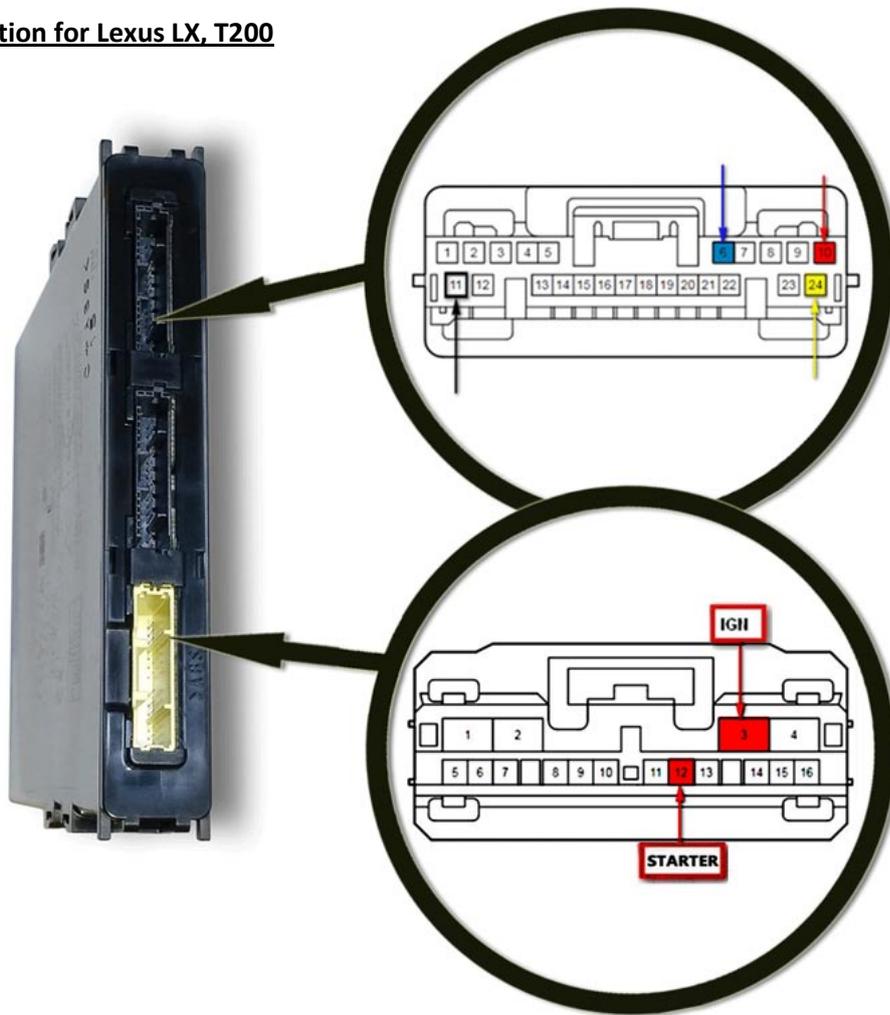
8. To stop the engine and turn off the ignition, turn off the red needle probe.
- **17th pin** of the **upper** SmartECU connector (for Lexus RX, NX);
 - **3rd pin** of the **lower** SmartECU connector (for Lexus LX, T200);
 - **17th pin** of the **upper** SmartECU connector (for hybrid Lexus RX 2017).



Connection for Lexus RX, NX



Connection for Lexus LX, T200



Connection for hybrid Lexus RX 2017

