AST (Auto Start Toyota)

Toyota / Lexus / Subaru emergency engine start unit

_____

AST 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.

AST unit is used as substitution for key authorization unit (Smart-module or Certification unit). As you connect the AST device, central lock become unblocked and keyless start system would be activated. When there is no need to use AST, you may return initial state of all electronic units of the vehicle. So AST unit leaves no traces of usage.

Supported vehicles:

Toyota: Land Cruiser 200, Land Cruiser Prado - (2014 MY)
Camry, Venza, RAV4 (till 2012 MY)
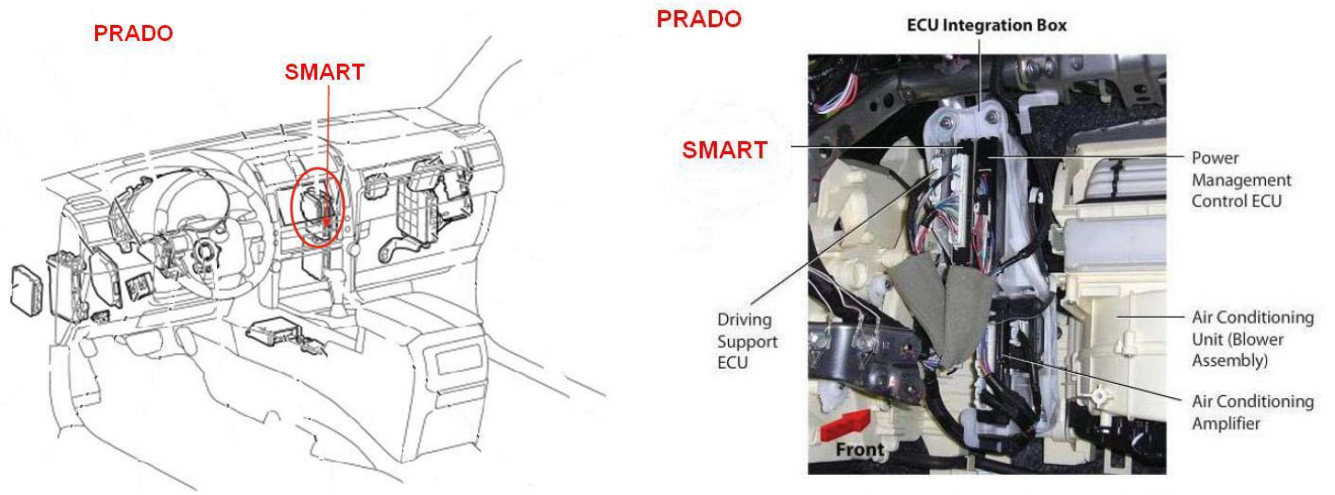**Lexus:** LX 570, LS 460, GX 460, RX – (2014 MY)
Subaru: Impreza, Forester, Legacy, Outback – (2014 MY)

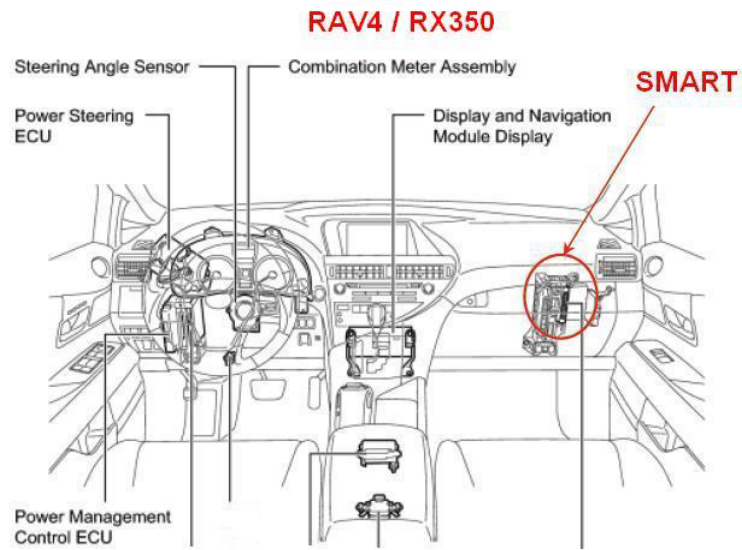## _Operation sequence (step-by-step instruction)_

1. Unplug keys authorization unit connectors (see illustrations in Appendix A).
2. Plug AST unit to one of those connectors – longer one (see Appendix B) and wait for green LED light (approx. three seconds). In the LC200, LX570 models and others connection to the plug of "wheel blocking" is possible.
3. Turn on engine by "Start" button. If the engine did not start at first button push, put key-fob on "Start" button and push it again.
4. Unplug the ASD device. To re-start again connect the AST device.
5. "Reset" of the device it is necessary to press the button.
6. TK-Prog device is necessary for programming of keys.
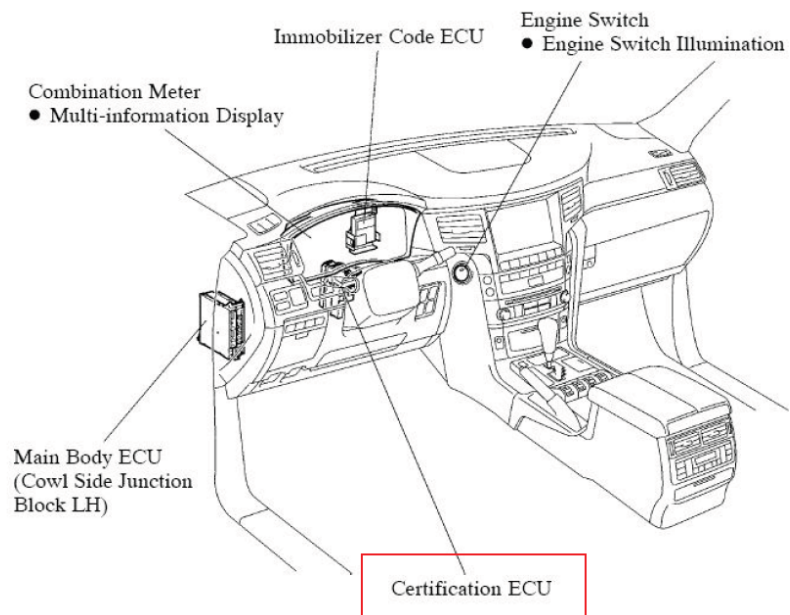
Appendix A: *Key authorization units location*

Toyota Land Cruiser Prado / Lexus GX 460

PRADO
SMART

PRADO
SMART
ECU Integration Box
Power Management Control ECU
Driving Support ECU
Air Conditioning Unit (Blower Assembly)
Air Conditioning Amplifier
Front

Toyota RAV4 / Lexus RX 350

RAV4 / RX350

Steering Angle Sensor
Combination Meter Assembly
SMART
Power Steering ECU
Display and Navigation Module Display
Power Management Control ECU

Toyota Land Cruiser 200 / Lexus LX 570

Combination Meter
● Multi-information Display

Immobilizer Code ECU

Engine Switch
● Engine Switch Illumination

Main Body ECU
(Cowl Side Junction
Block LH)

Certification ECU

Appendix B: *AST unit plug in illustration*

Toyota Land Cruiser Prado / Lexus RX, GX 460 - (2014 MY)
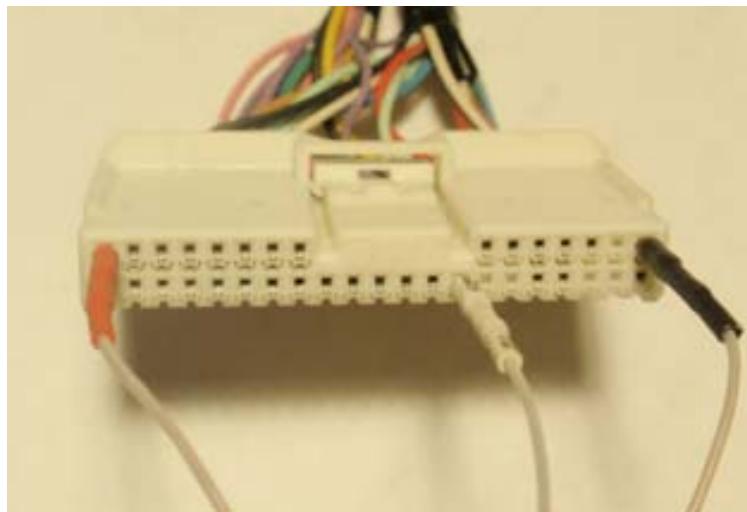
Toyota Land Cruiser200, RAV4, Lexus LX570, LS460, GS, IS - (2014 MY)
Camry, Venza (till 2012 MY).