

Toyota SRS 2020+ with RH850

I. Overview

Supported SRS types

Current Barracuda software version (26) supports, **Toyota SRS with locked RH850 MCUs** (R7F7016443 and R7F7016843). Such SRS are found in vehicles from 2020 to date. Functions **don't** require direct access to the SRS, connection is done through the vehicle's **Gateway**.

Available operations are:

- Read DTC
- Clear DTC
- Clear crash data
- Read DataFlash
- Write DataFlash

Requirements

- Barracuda programmer
- J2534 compliant PassThru OBD Adapter (ex.: Tactrix OpenPort 2.0)
- Active Barracuda annual subscription

II. Connection Diagram

All procedures (Read DTC, Clear DTC, Clear crash data, Read DataFlash & Write DataFlash) **don't** require direct access to the SRS, connection is established through the vehicle's **Gateway** as shown below:



III. Clear SRS Crash data & DTC errors

Standard Procedure

- 1. Connect the J2534 Pass Thru adapter to a PC and wire it as shown in section II. Connection Diagram
- 2. Connect Barracuda to the PC and run its software (Barracuda.exe)
- 3. Select function: ECU-> Toyota-> SRS
- 4. In **PassThru Settings** select the option for the adapter you are using.

Programmer	DTC Read DTC	Manual operations Read DataRash	Clear crash data
Resetter	Clear DTC PassThru Settings	Write DataFlash	x
Key Maker	Select PassThru		•
ECU Maker			
Manager	Pass Thru Settings	Help	

5. Press Read DTC - this will display the errors log, including status of crash data. You have a choice between SRS log and extended log. Default option is SRS log .

Barracuda v26	WWW.SCORPIO-LK.COM
Programmer	DTC Manual operations Read DTC Read DataFlash Clear crash data
Resetter	Glear DTC Write DataFlash PartNo: 89170 - K0010 SN: 203D000EP0 SW: 8917FK001100
Key Maker	B000113: Driver Frontal Stage 1 Deployment Control Circuit Open B0001013: Passenger Frontal Stage 1 Deployment Control Circuit Open B002013: Left Sude Ahbag Deployment Control Circuit Open B002013: Left Sude Ahbag Deployment Control Circuit Open B002013: Right Side Ahbag Deployment Control Circuit Open B002013: Right Side Ahbag Deployment Control Circuit Open B002013: Right Side Ahbag Deployment Control Circuit Open B002013: Dight Side Ahbag Deployment Control Circuit Open B002013: Right Side Ahbag Deployment Control Circuit Open B002013: Right Side Ahbag Deployment Control Circuit Open B002013: Sight Side Ahbag Deployment Control Circuit Open B007213: Passenger Seat Belt Pretensioner // Deployment Control Circuit Open B007213: Second Row Left Seat Belt Pretensioner // Deployment Control Circuit Open
ECU Maker	B007513: Second Row Right Seat Belt Pretensioner Deployment Control Circuit Open B009087: Left Frontal Restraints Sensor Assing Message B009287: Left Side Restraints Sensor 2 Missing Message B009387: Left Side Restraints Sensor 3 Missing Message B009587: Right Frontal Restraints Sensor 2 Missing Message B009787: Right Side Restraints Sensor 2 Missing Message W
Manager	PassThru Settings Help
	Toyota: SRS

The extended log will also show DTC errors which don't pertain directly to the SRS, but can help you diagnose other possible issues with the vehicle. The option is toggled by the checkbox **All DTC**

Barracuda v26	WWW.SCORPIO-LK.COM
Programmer	DTC Manual operations Read DTC Read DataRash Clear crash data
Resetter	Clear DTC Write DataFlash PartNo: 89170 - K0010 SN: 203D000EP0 SW: 8917FK001100
Key Maker	B009B83: Left Side Restraints Sensor 5 Value of Signal Protection Calculation Incorrect B009B84: Left Side Restraints Sensor 5 Signal Above Allowable Range B009B87: Left Side Restraints Sensor 5 Signal Above Allowable Range B009B54: Right Side Restraints Sensor 5 Signal Ploteability Failure B009E33: Right Side Restraints Sensor 5 Value of Signal Protection Calculation Incorrect B009B84: Right Side Restraints Sensor 5 Value of Signal Protection Calculation Incorrect B009E34: Right Side Restraints Sensor 5 Value of Signal Protection Calculation Incorrect B009E37: Right Side Restraints Sensor 5 Value of Signal Protection Calculation Incorrect B009E37: Right Side Restraints Sensor 5 Value of Signal Above Allowable Range B009E37: Right Side Restraints Sensor 5 Missing Message B166A62: Right Side Restraints Sensor 5 Missing Message
ECU Maker	* U023587: Lost Communication with Cruise Control Front Distance Range Sensor Signal Sensor or Center Missing Messe U130457: U131757:
Manager	Pass Thru Settings Help
	Toyota: SRS

6. In the error log a row with error code "Restraints Deployed", means that currently the SRS has stored crash data. Use the button Clear crash data, to remove it.

Barracuda v26	WWW.SCORPIO-LK.COM	
Programmer	DTC Manual operations Read DTC Read DataRash Clear crash data	
Resetter	Clear DTC Write DataRash PartNo: 89170 - K0010 SN: 203D000EP0 SW: 8917FK001100	
Key Maker	B007211: Passenger Seat Belt Pretensioner 'A' Deployment Control Circuit Open B007213: Passenger Seat Belt Pretensioner 'A' Deployment Control Circuit Open B007313: Second Row Right Seat Belt Pretensioner Deployment Control Circuit Open B007513: Second Row Right Seat Belt Pretensioner Deployment Control Circuit Open B007512: Second Row Right Seat Belt Pretensioner Deployment Control Circuit Open B00731: Second Row Right Seat Belt Pretensioner Deployment Control Circuit Open B009087: Left Forntal Restraints Sensor 7 Missing Message B003367: Left Side Restraints Sensor 7 Missing Message B003367: Right Forntal Restraints Sensor 7 Missing Message B003767: Right Side Restraints Sensor 7 Missing Message B00377: Right Side Restraints Sensor 7 Missing Message	
ECU Maker	* B009987: Left Side Restraints Sensor 5 Missing Message * P009887: Diels Gide Restraints Deployed * P05BB00: Restraints Deployed * 0005007: Dos Common canon on trulise Control Front Distance Range Sensor Signal Sensor or Center Missing Messa Total DTC: 21	
Manager	"Restrains Deployed" is the crash data error. Use Clear crash data to remove it. PassThru Settings Hep	

7. After that you can clear the rest of the errors with Clear DTC.

IV. Manual Operations

The software supports the following manual operations:

- Read DataFlash
- Write DataFlash

They allow to read, save and write (other or modified dump file) the entirety of the SRS RH850 MCU Data Flash area. Connection is same as shown in section II. Connection Diagram.