

Subaru Canbus Engine Wiring Harness Overview

	Gen4 Legacy/Liberty/Outback (03-09 BL,BP)	Gen3 Impreza (08-12 GE, GV, GH, GR)	Gen3 WRX (08-14 GE, GV, GH, GR)	Gen3 Forester (09-12 SH)
Typical Engine	EJ20 SOHC, EJ25 SOHC, EJ20 TURBO DOHC, EZ30 (6cyl), EE20 (DIESEL)	EJ20 DOHC (non turbo)	EJ25 DOHC turbo	EJ25 DOHC (turbo and non turbo), EE20 Diesel
Canbus Networks	Low Speed (Instrumentation) and High Speed (Engine)	Low Speed (Instrumentation) and High Speed (Engine)	Low Speed (Instrumentation) and High Speed (Engine)	Low Speed (Instrumentation) and High Speed (Engine)
Canbus Emulator	Required on ~06+, optional on early models (required for cruise)	Required	Required	Required
Dash Delete	Requires separate low speed Dash Delete module	Requires separate low speed Dash Delete module	Requires separate low speed Dash Delete module	Requires separate low speed Dash Delete module
Other requirements	Turbo and H6 models require fuel pump controller (unless used with the Interface box and the pump delete option) H6 models also require radator fan controller		Requires fuel pump controller (unless used with the Interface box and the pump delete option)	Turbo modelsrequire fuel pump controller (unless used with the Interface box and the pump delete option)

	Gen5 Legacy/Liberty/Outback (10-14 BM,BR)	Gen4 Impreza/XV (12-16 GJ, GP)	Gen4 WRX (15+ VA)	Gen4 Forester (12-18 SJ)
Typical Engine	EJ25 DOHC, FB25 DOHC EJ20 TURBO DOHC, EZ36 (6cyl), EE20 (DIESEL)	FB25 DOHC	FA20 DOHC TURBO, EJ25 DOHC TURBO	FB25 DOHC, FA20 DOHC Turbo, EE20 Diesel
Canbus Networks	High Speed only	High Speed only	High Speed only	High Speed only
Canbus Emulator	Required	Required	Required	Required
Dash Delete	Option on Canbus Emulator Mini (no separate module)	Option on Canbus Emulator Mini (no separate module)	Option on Canbus Emulator Mini (no separate module)	Option on Canbus Emulator Mini (no separate module)
Other requirements	Turbo and H6 models require fuel pump controller (unless used with the Interface box and the pump delete option) H6 models also require radator fan controller		Requires fuel pump controller (unless used with the Interface box and the pump delete option) This model, the engine ECU is mounted near the engine	Turbo modelsrequire fuel pump controller (unless used with the Interface box and the pump delete option)

Gen6 Legacy/Liberty/Outback (14-19 BN,BS)

Currently not tested

Gen5 Impreza/XV (16+ GK, GT)

Currently not tested

Gen5 Forester (18+ SK)

Currently not tested

Requirements Common to All Models

Immobiliser Requirements (Standard Key Model)

ECU, BIU (Body Computer), Key (+Antenna) and dash cluster need to be saved from the donor vehicle. The dash cluster can be deleted if a dash delete module is used (however you still need to have the original cluster to copy the codes from)

Immobiliser Requirements (Pushbutton Start Model)

ECU, Certification ECU, Power Supply ECU, ECU ID Box, Start Button and Key need to be saved from the donor vehicle, and wired up. The start button does not need to be used but must be installed with the key permanently in front of it

Engine Components Required

Most models use Pre and Post-Catalytic converter o2 sensors (however post can sensor can be removed if disabled in tune)
MAF (Airflow sensor)
Electronic accelerator pedal (Drive by Wire)

Tuning Capabilities

Turbo Models generally supported by free open source
Non turbo models generally supported by SubaruEdit
Emissions DTCs can be disabled in tune (USA models)