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# Syvecs LTD

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V1.2

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## Toyota Supra 98-2000

This document is intended for use by a technical audience and describes a number of procedures that are potentially hazardous. Installations should be carried out by competent persons only.

Syvecs and the author accept no liability for any damage caused by the incorrect installation or configuration of the equipment.

Please Note that due to frequent firmware changes certain windows might not be the same as the manual illustrates. If so please contact the Syvecs Tech Team for Assistance.

[Support@Syvecs.com](mailto:Support@Syvecs.com)



### Contents

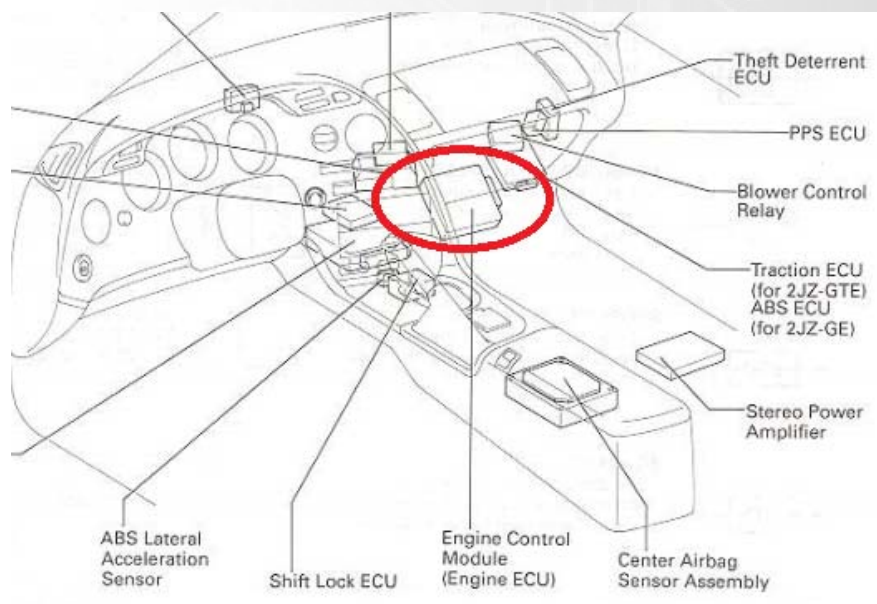
The kit should come with the following:

1 x Syvecs S7-Plus

1 x Supra PNP Wiring Loom

### Installation

- 1.) Remove the Negative Terminal from the battery on the Vehicle
- 2.) Remove the OEM Engine control modules found in the passenger footwell



- 3.) Replace the battery terminal and engine covers and proceed to the Syvecs Manual

## Supra MK4 FAQ and Help

Q) Does the Kit work with Auto Trans

A) The S7Plus Kit offers full auto Gearbox control, via Scal

Q) Can I install different in tank pump?

A) Yes, the Syvecs communicates with the OEM Fuel Pump Ecu to allow PWM Control of the Pump so it can be adjusted to suit your new pump.

Q) What of the original features will now now work?

A) None, even cruise control works

Q) Can you control the OEM TT Setup

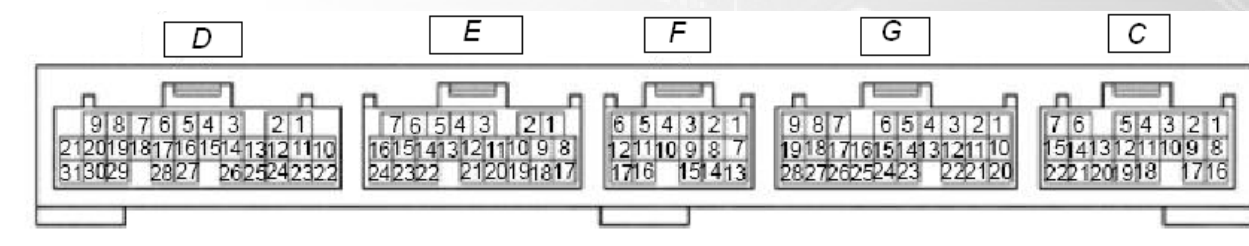
A) Yes but not if on a Auto Cars as not enough outputs present

Q) Can I wire in a aftermarket Boost solenoid

A) Yes this is done on the Blue connector next to the OEM TT Setup, It has 12v and Link directs to pin A5 on S6Plus or

Email [Support@syvecs.co.uk](mailto:Support@syvecs.co.uk) for a base map to suit your setup.

### Pinouts of S7Plus Kit



A	DESCRIPTION		
	PART NUMBER		
	NOTES:		

<i>Syvecs Description</i>	<i>Syvecs Pinout</i>	<i>Car Pinout</i>	<i>Car Note</i>
PWR CTR OUT	A1		
<b>H-Bridge1</b> / SlaveOut1	A2	7D	DBW
<b>H-Bridge2</b> / SlaveOut2	A3	8D	DBW
<b>H-Bridge3</b> / SlaveOut3	A4	1F	S1 Auto Solenoid
<b>H-Bridge4</b> / SlaveOut4	A5	2F	S2 Auto Solenoid
<b>H-Bridge5</b> / SlaveOut5	A6	3F	SD Auto Solenoid
<b>H-Bridge6</b> / SlaveOut6	A7	6F	S4 Auto Solenoid
<b>H-Bridge7</b> / SlaveOut7	A8		VSV - Intake Control
<b>H-Bridge8</b> / SlaveOut8	A9		VSV - Exhaust Control
FUEL1	A10	E5	Injector1
FUEL2	A11	E6	Injector2
FUEL3	A12	D1	Injector3
FUEL4	A13	D2	Injector4
FUEL5	A14	D3	Injector5

FUEL6	A15	D4	Injector6
FUEL7	A16		VSV - Exhaust Bypass
FUEL8	A17	C6	Knock Light
<b>PWM1</b> /*FUEL9	A18	G20	Tacho - Needs 12v Pullup
<b>PWM2</b> /*FUEL10	A19	G13	A/C Clutch
<b>PWM3</b> /*FUEL11	A20	D15	Boost Solenoid
<b>PWM4</b> /*FUEL12	A21		
PWM5	A22	D17	VVT
PWM6	A23	15F	SLT - Needs Flyback
PWM7	A24	13F	SLU - Needs Flyback
PWM8	A25	14F	SLN - Needs Flyback
IGN1	A26	D11	Ignition 1
IGN2	A27	D12	Ignition 2
IGN3	A28	D13	Ignition 3
IGN4	A29	C5	Fuel Pump
IGN5	A30		Ignition 5
IGN6	A31		Ignition 6
PWRGND	A32	D19	DBW Clutch Ground
PWRGND	A33	D21	
PWRGND	A34	D31	

<b>B</b>	<b>DESCRIPTION</b>		
	PART NUMBER		
	NOTES:		

PWRGND	B1	E1	
CAN2L	B2		
CAN2H	B3		
KNOCK	B4	External Knock Loom	
KNOCK 2	B5	External Knock Loom	
<b>PVBAT</b>	<b>B6</b>		
<b>IVBAT</b>	<b>B7</b>	<b>C16,C8, D20</b>	<b>12v</b>
LAM1A	B8		Nernst Cell
LAM1B	B9		Ion Pump
LAM1C	B10		Cal Trim Resistor
LAM1D	B11		Virtual Ground
LAM1HEATER	B12		
<b>IVBAT</b>	<b>B13</b>	<b>D18, F7, F8, F9</b>	<b>VVTI + / Auto Solenoids 12v</b>
LAM2A	B14		Nernst Cell
LAM2B	B15		Ion Pump
LAM2C	B16		Cal Trim Resistor
LAM2D	B17		Virtual Ground
LAM2HEATER	B18		
<b>IVBAT</b>	<b>B19</b>		<b>Lambda 12v</b>
KLINE	B20		
RS232RX	B21		

RS232TX	B22		
LANRX-	B23		
LANRX+	B24		
LANTX-	B25		
LANTX+	B26		

<b>C</b>	<b>DESCRIPTION</b>		
	PART NUMBER		
	NOTES:		

KNOCKGND	C1	External Loom	
ANGND	C2	D22, E18	
ANGND	C3	10F, 11F	Auto Box sensor Grounds
ANGND	C4		
5V OUT	C5	E2	
5V OUT	C6		
5V OUT	C7		
CAN L	C8		
CAN H	C9		
AN01	C10	D10	G1
AN02	C11	D23	NE
AN03	C12	G18	RR ABS
AN04	C13		
AN05	C14	H7	FR ABS
AN06	C15	H8	FL ABS
AN07	C16	5F	AT Speed
AN08	C17	E24	TPS2
AN09	C18	E15	PPS1
AN10	C19	E23	TPS1
AN11	C20	E9	MAP
AN12	C21	E16	PPS2
AN13	C22	E14	Coolent Temp
AN14	C23	E22	Air temp
AN15	C24		Cal Switch
AN16	C25	G1	A/C
EGT1-	C26		
EGT1+	C27		
PWR CTR IN	C28		
<b>AN S1 / Slave An01</b>	C29	G16	R Switch
<b>AN S2 / Slave An02</b>	C30	G4	Up Switch
<b>AN S3 / Slave An03</b>	C31	G14	Down Switch
<b>AN S4 / Slave An04</b>	C32	G7	Manual Mode
<b>AN S5 / Slave An05</b>	C33	F17	Auto Trans Temp
<b>AN S6 / Slave An06</b>	C34	G27	N And R Switch