

## **LIST OF BODY LOOM AND OTHER CONNECTORS – Supra 2JZGTE VVTi (97.8-02)**

### **1. UPPER FUSEBOX CONNECTOR:**

Pin	Wire Colour	Function	Destination(s)
1	Black	Starter solenoid control	Starter Motor
2	Black-Red	EFI supply	ECU C8, C16, VSV FPR, VSV CanPurge, MAF +B
3	Blue-Red	ECTS supply	ECU C7
4	White	Alternator battery sense	Alternator pin 3
5	Black-Red	Lambda sensor heater power	Lambda sensor pin 2

- 1 wire with different color on the upper fusebox connector (pin 3)

### **2. LOWER FUSEBOX CONNECTOR:**

Pin	Wire Colour	Function	Destination(s)
1	Blue	A/C clutch	Orange footwell connector pin 10 and Air conditioning pump pin 4
2	White-Green	A/C clutch relay control	ECU G13
3	Black	Start	Grey footwell connector pin 7
4	Black-White	12V EFI unswitched	ECU C1
5	Not used	Not used	Not used
6	Black-Red	ABS solenoid relay	Diagnostics connector pin "WB"
7	Not used	Not used	Not used
8	Black-Yellow	EFI main relay control	ECU C10

- 2 wires less and 2 with different color on the lower fusebox connector (pin 4 and pin 8)
- ECU pins C1, C7, C8, C10, C16 and G13 are taken from here:
  - <http://www.2jzgarage.com/wp-content/uploads/2012/01/final3.14.jpg>
  - <http://www.2jzgarage.com/wp-content/uploads/2012/01/final3.15.jpg>

### **3. VVTI TT ORANGE FOOTWELL CONNECTOR:**

Pin	Wire Colour	Function	Destination(s)
1	N/A	No Connection	N/A
2	Blue-Red	Vehicle Speed	Speed sensor pin 3
3	Black	Unknown	ECU C2
4	White-Green	Power Steering	Power steering solenoid pin 1
5	N/A	No Connection	N/A
6	N/A	No Connection	N/A

7	N/A	No Connection	N/A
8	Red	Ground	Speed sensor pin 2
9	Yellow-Black	IND (Slip Control Off Light)	ECU H1
10	Blue	A/C clutch	Air conditioning pump pin 4 and Lower fusebox connector pin 10
11	Pink	Vehicle Speed	ECU G25
12	Black	Airbag diagnostics	Diagnostics connector pin "AB"
13	Black-Orange	Ignition switch	ECU C9
14	White-Blue	Power steering	Power steering solenoid pin 2
15	Blue-Black	Engine warning light	ECU C6
16	Black-Yellow	PM1 (MAP Vacuum Sensor)	ECU E9 and MAP pin 2
17	N/A	No Connection	N/A
18	N/A	No Connection	N/A
19	Yellow-Orange	Coolant temp gauge	Water temp gauge sensor and grey footwell connector pin 2
20	Purple-White	A/C signal ground	Air conditioning pump pin 2
21	Red	Traction diagnostics	Diagnostics connector pin "TC"
22	N/A	No Connection	N/A
23	Yellow	12V ign	Speed sensor pin 1 and reverse light switch pin 2 and alternator pin 2
24	Brown	Ground	Intake manifold bonding point
25	Yellow-Black	Oil pressure warning	Grey footwell connector pin 10 and oil pressure switch
26	Green-Yellow	A/C lock sensor	Air conditioning pump pin 1
27	N/A	No Connection	N/A
28	N/A	No Connection	N/A
29	Black-White	Tachometer	ECU G20
30	N/A	No Connection	N/A
31	Blue-Red	A/C request	ECU G1
32	Red-Yellow	Idle-up	ECU G26
33	Green	Oil level warning	Oil level sensor pin 1
34	Yellow-Green	Charge warning light	Alternator pin 1
35	N/A	No Connection	N/A
36	Red-Black	Reverse gear selected	Reverse light switch pin 1
37	N/A	No Connection	N/A
38	White	CIND (Slip Control Light)	ECU H14

#### 4. **VVTI TT GREY FOOTWELL CONNECTOR:**

Pin	Wire Colour	Function	Destination(s)
1	Black-White	12V Ignition	Coilpacks pin 1 and small igniter pin 2 and condensor pin 2
2	Yellow-Red	Coolant temp gauge	Orange footwell connector pin 19
3	N/A	No Connection	N/A
4	Purple-White	Fuel pump control	ECU C5
5	N/A	No Connection	N/A
6	N/A	No Connection	N/A
7	Black	Start	ECU G2 and lower fuse box connector pin 3
8	N/A	No Connection	N/A
9	Black-White	12V Ignition	Injectors pin 2
10	Yellow-Black	Oil pressure warning	Orange footwell connector pin 25 and oil pressure switch
11	Green-White	Brake light	ECU G6
12	Green	Fuel pump ECU "D1"	ECU C4
13	N/A	No Connection	N/A
14	Orange	ABS (EXO – ABS Computer)	ECU G21
15	Yellow	Unknown (Traction)	Diagnostics connector pin "TS"
16	Blue	ABS warning light	Diagnostics connector pin "WA"
17	N/A	No Connection	N/A
18	N/A	No Connection	N/A
19	Blue-White	Unknown	Diagnostics connector pin "OP4"
20	N/A	No Connection	N/A

#### 5. **VVTI TT WHITE FOOTWELL CONNECTOR:**

Pin	Wire Colour	Function	Destination(s)
1	Pink	Unknown	ECU C3
2	N/A	No Connection	N/A
3	N/A	No Connection	N/A
4	Black-White	SIL (Diagnostic Connector)	ECU C11
5	Yellow-Red	FRO (ABS Computer)	ECU H7
6	Blue-Orange	FLO (ABS Computer)	ECU H8
7	Red-Blue	TC (Diagnostic Connector)	ECU G5
8	White-Black	ECU Ground	ECU C22
9	Brown	GND	ECU D9, D21, D31, E17

10	Red	Unknown	ECU G14
11	Black	Unknown	ECU G4
12	Yellow	MSW (Slip Control Off Switch)	ECU H2
13	N/A	No Connection	N/A
14	N/A	No Connection	N/A
15	Green-Red	RRO (ABS Computer)	ECU G18
16	Purple-White	RLO (ABS Computer)	ECU G19

## 6. VVTI TT THROTTLE VALVE MOTOR

Pin	Wire Colour	Function	Destination(s)
1	Black	M- (Throttle Valve Motor)	ECU D7
2	White	M+ (Throttle Valve Motor)	ECU D8
3	Yellow-Red	CL- (Throttle Valve Motor -ve)	ECU D19
4	Green-Red	CL+ (Throttle Valve Motor +12v)	ECU D20

## 7. VVTI TT ACCELERATION SENSOR

Pin	Wire Colour	Function	Destination(s)
1	Blue-Black	VPA2 (Accel Sensor PPS Sub)	ECU E16
2	Blue-White	VPA (Accel Sensor PPS Main)	ECU E15
3	White-Black	E2 (Accel Sensor GND)	MAF Pin2, Throttle Pos Sensor Pin4, Vacuum Sensor Pin1, Water Temp Sensor Pin1
4	Blue-Red	VC (Accel Sensor +5v)	ECU E2, Throttle Pos Sensor Pin1, Vacuum Sensor Pin3

## 8. VVTI TT THROTTLE POSITION SENSOR

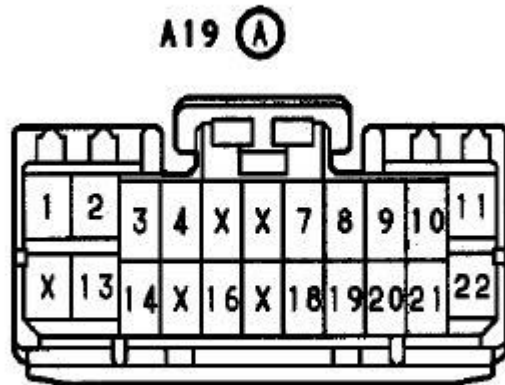
Pin	Wire Colour	Function	Destination(s)
1	Blue-Red	VC (Throttle Pos Sensor +5v)	ECU E2, Accel Sensor Pin4, Vacuum Sensor Pin3
2	Yellow	VTA (Throttle Pos Sensor Main)	ECU E23
3	Yellow-Green	VTA2 (Throttle Pos Sensor Sub)	ECU E24
4	White-Black	E2 (Throttle Pos Sensor GND)	MAF Pin2, Accel Sensor Pin3, Vacuum Sensor Pin1, Water Temp Sensor Pin1

- Some more connectors while I was investigating why my DBW is not working...

- This I have to check for sure - VTA/VTA2:
  - 0.3-0.8V with the ignition switch on and the throttle valve fully closed
  - 3.2-4.9V with the ignition switch on and the throttle valve fully open

## 9. **FACELIFT ABS ECU (89541-14060) - SZ, SZR, RZS - (\* W/ TRACTION)**

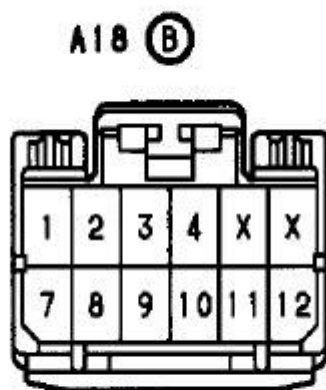
**A:**



Pin	Symbol	Wire Colour	Destination(s)
1	SFRR	Yellow-Red	ABS Actuator Pin B6
2	GND1	White-Black	Ground
3	FR+	Red	Right Front Speed Sensor Pin 2
4	SFRH	Yellow	ABS Actuator Pin B2
5*	RRO	Green-Red	ECU G18 VVTi / TRC ECU nonVVTi
6*	FLO	LightBlue-Orange	ECU H8 VVTi / TRC ECU nonVVTi
7	MR	Violet	ABS Motor Relay Pin A4
8	R+	Violet-White	ABS Motor Relay Pin A3
9	MT	Green-White	ABS Actuator Pin A3
10	SFLH	Black-Yellow	ABS Actuator Pin B1
11	SFLR	Black-Red	ABS Actuator Pin B5
12*	EXO	Orange	ECU G21 VVTi / Pin 11 nonVVTi
13	GND2	White-Black	Ground
14	FR-	LightBlue	Right Front Speed Sensor Pin 1
15*	FRO	Yellow-Red	ECU H7 VVTi / TRC ECU nonVVTi
16	AST	Yellow-Green	ABS Actuator Pin A5

17*	RLO	Violet-White	ECU G19 VVTi / TRC ECU nonVVTi
18	SR	LightBlue-Black	ABS Solenoid Relay Pin B1
19	FL+	White	Left Front Speed Sensor Pin 2
20	FL-	Black	Left Front Speed Sensor Pin 1
21	SRH	Pink	ABS Actuator Pin B4
22	SRR	Pink-LightBlue	ABS Actuator Pin B8

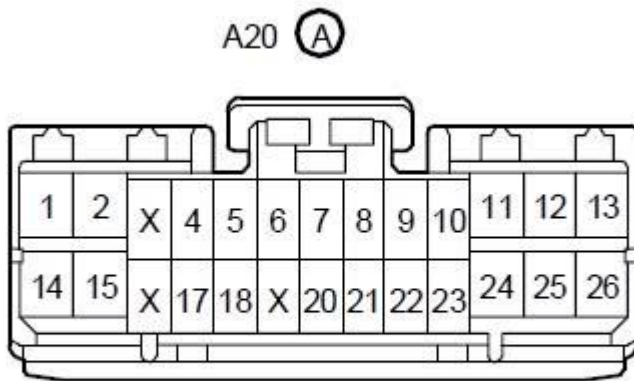
**B:**



Pin	Symbol	Wire Colour	Destination(s)
1	RR+	LightBlue	Right Rear Speed Sensor Pin 1
2	IG1	Black-Red	Ignition Switch
3	RL+	Violet	Left Rear Speed Sensor Pin 1
4	WA	LightBlue	ABS Warning Light Pin 4
5	N/A	N/A	N/A
6	N/A	N/A	N/A
7	RR-	Pink	Right Rear Speed Sensor Pin 2
8	TS	Yellow	TDCL (Data Link Connector 1 Pin 16)
9	TC	Red	TDCL (Data Link Connector 2 Pin 4)
10	RL-	LightGreen	Left Rear Speed Sensor Pin 2
11	D/G	LightGreen-Black	TDCL (Data Link Connector 2 Pin 14)
12	STP	Green-White	Stop Light Switch Pin 1

## **10. FACELIFT ABS ECU (89541-14070) - RZ**

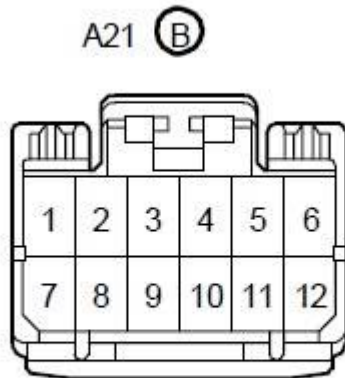
**A:**



Pin	Symbol	Wire Colour	Destination(s)
1	SFRR	Yellow-Red	ABS Actuator Pin B5
2	SFRH	Yellow	ABS Actuator Pin B1
3	VGS	Black	ABS Deceleration Sensor Pin 3
4	GL1	Red	ABS Deceleration Sensor Pin 1
5	STP	Green-White	Stop Light Switch Pin 1
6	RRO	Green-Red	ECU G18 VVTi / TRC ECU nonVVTi
7	FRO	Yellow-Red	ECU H7 VVTi / TRC ECU nonVVTi
8	TC	Red	TDCL (Data Link Connector 2 Pin 4)
9	RL-	LightGreen	Left Rear Speed Sensor Pin 2
10	RR+	LightBlue	Right Rear Speed Sensor Pin 1
11	WA	LightBlue	ABS Warning Light Pin 4
12	GND1	White-Black	Ground
13	IG1	Black-Red	Ignition Switch
14	SRLR	Red-LightBlue	ABS Actuator Pin B7
15	SRLH	Pink-Black	ABS Actuator Pin B3
16	GL2	White	ABS Deceleration Sensor Pin 5
17	GGND	Green	ABS Deceleration Sensor Pin 2
18	EXO	Orange to Yellow-Red	ECU Pin G21 VVTi / Pin 11 nonVVTi
19	RLO	Violet-White	ECU G19 / TRC ECU nonVVTi
20	FLO	LightBlue-Orange	ECU H8 / TRC ECU nonVVTi
21	TS	Yellow	TDCL (Data Link Connector 1 Pin 16)

22	RL+	Violet	Left Rear Speed Sensor Pin 1
23	RR-	Pink	Right Rear Speed Sensor Pin 2
24	D/G	LightGreen-Black	TDCL (Data Link Connector 2 Pin 14)
25	GND2	White-Black	Ground
26	R+	Violet-White	ABS Motor Relay Pin 3

**B:**



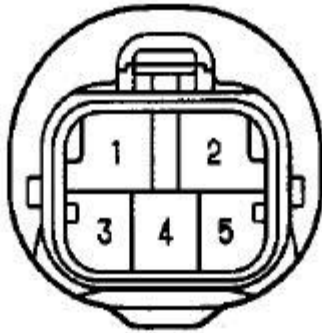
Pin	Symbol	Wire Colour	Destination(s)
1	MR	Violet	ABS Motor Relay Pin 4
2	FL-	Black	Left Front Speed Sensor Pin 1
3	FR+	Red	Right Front Speed Sensor Pin 2
4	AST	Yellow-Green	ABS Actuator Pin A5
5	SFLH	Black-Yellow	ABS Actuator Pin B2
6	SFLR	Black-Red	ABS Actuator Pin B6
7	SR	LightBlue-Black	ABS Solenoid Relay Pin 6
8	FL+	White	Left Front Speed Sensor Pin 2
9	FR-	LightBlue	Right Front Speed Sensor Pin 1
10	MT	Green-White	ABS Actuator Pin A3
11	SRRH	Pink	ABS Actuator Pin B3
12	SRRR	Pink-LightBlue	ABS Actuator Pin B8

**11. FACELIFT ABS Actuator (44510-14090) - - SZ, SZR, RZS**



**A:**

A 6 (A) BLACK



Pin	Symbol	Wire Colour	Destination(s)
1	GND	White-Black	Ground
2	BM	LightBlue	ABS Motor Relay A2
3	MT	Green-White	ABS ECU Pin A9
4	BS	LightBlue-White	ABS Motor Relay B5
5	AST	Yellow-Green	ABS ECU Pin A16

**B:**

A 7 (B) GRAY

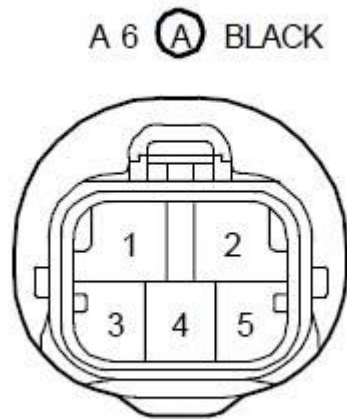


Pin	Symbol	Wire Colour	Destination(s)
1	SFLH	Black-Yellow	ABS ECU Pin A10

2	SFRH	Yellow	ABS ECU Pin A4
3	Unknown	Green	Unknown
4	SRH	Pink	ABS ECU Pin A21
5	SFLR	Black-Red	ABS ECU Pin A11
6	SFRR	Yellow-Red	ABS ECU Pin A1
7	Unknown	Red-LightBlue	Unknown
8	SRR	Pink-LightBlue	ABS ECU Pin A22

## **12. FACELIFT ABS Actuator (44510-14100) – RZ**

**A:**



Pin	Symbol	Wire Colour	Destination(s)
1	GND	White-Black	Ground
2	BM	LightBlue	ABS Motor Relay Pin 2
3	MT	Green-White	ABS ECU Pin B10
4	BS	LightBlue-White	ABS Solenoid Relay Pin 3
5	AST	Yellow-Green	ABS ECU Pin B4

A 7 (B) GRAY

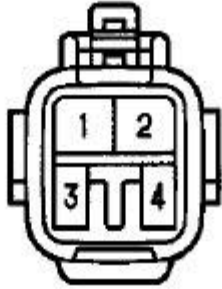


Pin	Symbol	Wire Colour	Destination(s)
1	SFRH	Yellow	ABS ECU Pin A2
2	SFLH	Black-Yellow	ABS ECU Pin B5
3	SRLH	Pink-Black	ABS ECU Pin A15
4	SRRH	Pink	ABS ECU Pin B11
5	SFRR	Yellow-Red	ABS ECU Pin A1
6	SFLR	Black-Red	ABS ECU Pin B6
7	SRLR	Red-LightBlue	ABS ECU Pin A14
8	SRRR	Pink-LightBlue	ABS ECU Pin B12

### **13. FACELIFT ABS Relay (88263-35090) - SZ, SZR**

**A:**

A 8 (A) GRAY



Pin	Wire Colour	Destination(s)
1	Red	ABS Fuse No1. & ABS Relay Pin B2
2	LightBlue	ABS Actuator Pin A2
3	Violet-White	ABS ECU Pin A8
4	Violet	ABS ECU Pin A7

**B:**

A 9 (B) GRAY



Pin	Wire Colour	Destination(s)
1	LightBlue-Black	ABS ECU Pin A18
2	Red	ABS Fuse No1. & ABS Relay Pin A1
3	N/A	N/A

4	Black-Red	Data Link Connector1 Pin 23
5	LightBlue-White	ABS Actuator Pin A4
6	White-Black	Ground

#### **14. FACELIFT ABS Relays - RZS, RZ - ABS Motor Relay (88263-24020)**

Pin	Wire Colour	Destination(s)
1	Red	ABS Fuse No1. & ABS Solenoid Relay Pin 1
2	LightBlue	ABS Actuator Pin A2
3	Violet-White	ABS ECU Pin A26 & ABS Solenoid Relay Pin 4
4	Violet	ABS ECU Pin B1

#### **15. ABS Solenoid Relay (88263-24030)**

Pin	Wire Colour	Destination(s)
1	Red	ABS Fuse No1. & ABS Motor Relay Pin 1
2	White-Black	Ground
3	LightBlue-White	ABS Actuator Pin A4
4	Violet-White	ABS ECU Pin A26 & ABS Motor Relay Pin 3
5	Black-Red	Data Link Connector1 Pin 23
6	LightBlue-Black	ABS ECU Pin B7

#### **16. FACELIFT Deceleration Sensor (89441-20050) – RZ**

**A:**



Pin	Symbol	Wire Colour	Destination(s)
1	GL1	Red	ABS ECU Pin A4
2	GGND	Green	ABS ECU Pin A17
3	VGS	Black	ABS ECU Pin A3

4	N/A	N/A	N/A
5	GL2	White	ABS ECU Pin A16