

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

WWW.2JZGARAGE.COM

LAST UPDATED 11/06/2014

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

- **NOTE** - 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

- **NOTE** - 2 wires less and 2 with different color on the lower fusebox connector (pin 4 and pin 8)
- **NOTE 2** - 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 – ENGINE WIRING - (BG1): *ENGINE LOOM SIDE

Pin	Wire Colour	Function	Destination(s)
1	Light Blue	N shift	A/T Indicator Switch Pin 10
2	Blue-Red	Vehicle Speed	Speed Sensor Pin 3 and ECU G25 (AUTO)
3	Black	SNOW (Snow Light)	ECU C2

4	White-Green	SOL + Power Steering	Power Steering Solenoid Pin 1
5	Purple	BZ	ECU H19
6	N/A	No Connection	N/A
7	Green-White	P Shift	A/T Indicator Switch Pin 7
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	SOL - 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	Light Blue-Yellow	2 Shift	A/T Indicator Switch Pin 2
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-White	Traction diagnostics	Diagnostics connector pin "TC"
22	Green	LP01	ECU H4
23	Yellow	12V ign	Speed sensor pin 1, Reverse light switch pin 2, alternator pin 2 and A/T Indicator Switch Pin 4 (AUTO)
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	A/C Pump pin 1
27	Green-Black	L Shift	A/T Indicator Switch Pin 3
28	Purple-White	SPTL	ECU H18
29	Black-White	Tachometer	ECU G20
30	Green-Orange	MT3	ECU G7
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	Green-Yellow	LP02	ECU H3
36	Red-Black	Reverse gear selected	Reverse light switch pin 1 and A/T Indicator Switch Pin 8 (AUTO)
37	Red-Yellow	LP03	ECU H17
38	White	CIND (Slip Control Light)	ECU H14

4. VVTI TT ORANGE FOOTWELL CONNECTOR – UNDER DASHBOARD FIREWALL WIRING - (BG1): *BODY LOOM SIDE

Pin	Wire Colour	Function	Destination(s)
1	Light Blue	N shift	Combination Meter Brown Plug Pin 2
2	Blue-Red	Vehicle Speed	Combination Meter Grey Plug Pin 1
3	Black	SNOW (Snow Light)	Tell Tail White Plug G9 Pin 10
4	White-Green	SOL + Power Steering	Power Steering ECU Pin 1
5	Purple	BZ	Combination Meter Brown Plug Pin 9
6	N/A	No Connection	N/A
7	Green-White	P Shift	Combination Meter Brown Plug Pin 1
8	Red	Ground	Combination Meter Grey Plug Pin 9
9	Yellow-Black	IND (Slip Control Off Light)	Tell Tail White Plug G9 Pin 3
10	Blue	A/C clutch	A/C ECU Orange Plug G21 Pin 7
11	Pink	Vehicle Speed	Combination Meter Grey Plug Pin 1
12	Black	Airbag diagnostics	10A Fuse Electronics and White Connector Instrumental to Cowl GC2 Pin 2
13	Black-Orange	Ignition switch	7.5A Fuse Ignition
14	White-Blue	SOL - Power steering	Power steering ECU Pin 2
15	Blue-Black	Engine warning light	Tell Tail White Plug G28 Pin 2
16	Black-Yellow	PM1 (MAP Vacuum Sensor)	Combination Meter Blue Plug Pin 10
17	Light Blue-Yellow	2 Shift	Combination Meter Brown Plug Pin 6
18	N/A	No Connection	N/A
19	Yellow-Orange	Coolant temp gauge	Combination Meter Blue Plug Pin 13

20	Purple-White	A/C signal ground	A/C Control Switch Orange Plug G16 Pin 13
21	Red-White	Traction diagnostics	White Connector Instrumental to Cowl GC2 Pin 11
22	Green	LP01	Combination Meter Brown Plug Pin 13
23	Yellow	12V ign	Tell Tail White Plug G9 Pin 9, Tell Tail White Plug G28 Pin 3 and 10A Fuse Meters
24	Brown	Ground	Combination Meter Blue Plug Pin 12
25	Yellow-Black	Oil pressure warning	Tell Tail White Plug G28 Pin 10
26	Green-Yellow	A/C lock sensor	A/C ECU Orange Plug G21 Pin 22
27	Green-Black	L Shift	Combination Meter Brown Plug Pin 7
28	Purple-White	SPTL	Combination Meter Brown Plug Pin 8
29	Black-White	Tachometer	Combination Meter Blue Plug Pin 4 and A/C ECU Orange Plug G21 Pin 21
30	Green-Orange	MT3	NSSD – Shift Select Switch Pin 1
31	Blue-Red	A/C request	A/C ECU Orange Plug G19 Pin 6
32	Red-Yellow	Idle-up	Diode Idle-up Pin 2
33	Green	Oil level warning	Combination Meter Grey Plug Pin 3
34	Yellow-Green	Charge warning light	Combination Meter Grey Plug Pin 5, Tell Tail White Plug G9 Pin 15 and Orange Instrumental to Cowl Connector GC1 Pin 14
35	Green-Yellow	LP02	Combination Meter Brown Plug Pin 12
36	Red-Black	Reverse gear selected	Combination Meter Brown Plug Pin 10 and Orange Plug Instrumental to Floor GJ1 Pin 12
37	Red-Yellow	LP03	Combination Meter Brown Plug Pin 11
38	White	CIND (Slip Control Light)	Tell Tail White Plug G9 Pin 2

5. 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

6. 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

7. 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

8. 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

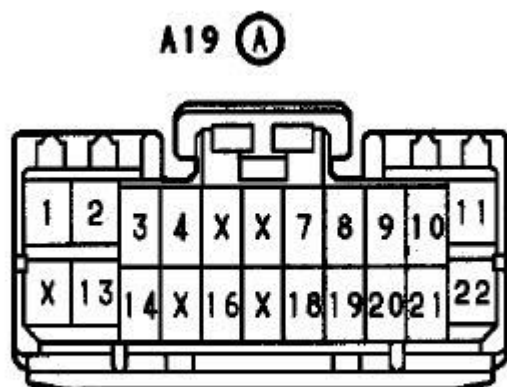
9. VVTI TT THROTTLE POSITION SENSOR

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

- **NOTE** - Some more connectors while I was investigating why my DBW is not working...
- **NOTE 2** - 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

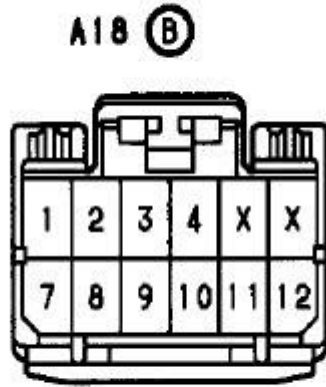
10. FACELIFT ABS ECU (89541-14060) - SZ, SZR, RZS - (* W/ TRACTION)

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

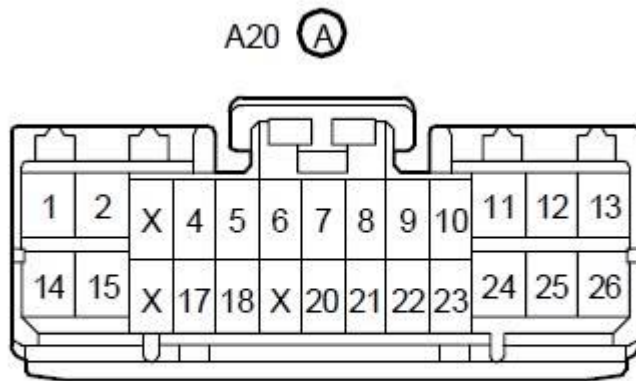
B:



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

11. FACELIFT ABS ECU (89541-14070) - RZ

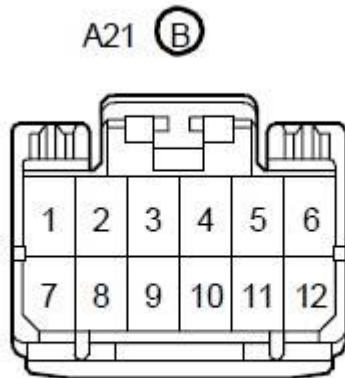
A:



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:

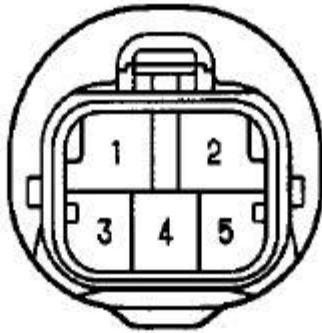


Pin	Symbol	Wire Colour	Destination(s)
1	MR	Violet	ABS Motor Relay Pin 4
2	FL-	Black	Left Front Speed Sensor Pin 1
3	FR+	Red	Right Front Speed Sensor Pin 2
4	AST	Yellow-Green	ABS Actuator Pin A5
5	SFLH	Black-Yellow	ABS Actuator Pin B2
6	SFLR	Black-Red	ABS Actuator Pin B6
7	SR	LightBlue-Black	ABS Solenoid 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

12. 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

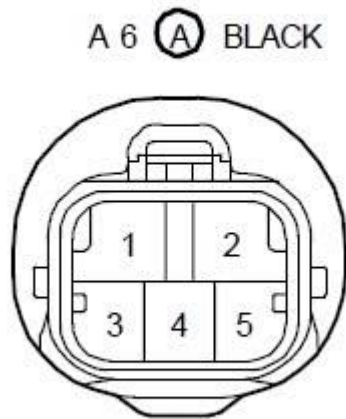


Pin	Symbol	Wire Colour	Destination(s)
1	SFLH	Black-Yellow	ABS ECU Pin A10

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

13. 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

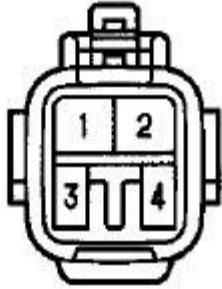


Pin	Symbol	Wire Colour	Destination(s)
1	SFRH	Yellow	ABS ECU Pin A2
2	SFLH	Black-Yellow	ABS ECU Pin B5
3	SRLH	Pink-Black	ABS ECU Pin A15
4	SRRH	Pink	ABS ECU Pin B11
5	SFRR	Yellow-Red	ABS ECU Pin A1
6	SFLR	Black-Red	ABS ECU Pin B6
7	SRLR	Red-LightBlue	ABS ECU Pin A14
8	SRRR	Pink-LightBlue	ABS ECU Pin B12

14. 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

15. 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

16. 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

17. 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