

Toyota Pinout 3SGTE																										LINK																																																																																															
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Link Pin	Toyota Pin	ECU Pin V1	3SGTE V1	Link Pin	Toyota Pin	ECU Pin V2/3	3SGTE V2	3SGTE V3
1	B13	GND	Ground	1	B13	GND	Ground	Ground
2	B12	INJ 1	Injector 1	2	B12	INJ 1	Injector 1	Injector 1
3	B11	INJ 2	Injector 2	3	B11	INJ 2	Injector 2	Injector 2
4	B10	INJ 5	Cold Start Inj.	4	B10	Aux 2	Idle Control Open	Idle Control Open
5	B9	Aux 1	Idle Control Close	5	B9	Aux 1	Idle Control Close	Idle Control Close
6	B8	INJ 6	NB Oxy Htr GND	6	B8	INJ 6	NB Oxy Htr GND	NB Oxy Htr GND
7	B7	nc	nc	7	B7	nc	Evap 1	Evap 1
8	B6	IGN 5	Hi/Low Boost	8	B6	IGN 5	EGR	EGR
9	B5	Aux 3	nc	9	B5	DI4/G2 Trig 2	G2 Cam Sync	G2 Cam Sync
10	B4	Aux 8	nc	10	B4	Trig 1	Crank Trigger	Crank Trigger
11	B3	nc	IGF	11	B3	nc	IGF	IGF
12	B2	DI4/G2 Trig 2	G2 Cam Sync	12	B2	Aux 3	Hi/Low Boost	Hi/Low Boost
13	B1	Trig 1	Crank Trigger	13	B1	Aux 8	TVIS	Evap 2
14	B26	GND	Ground	14	B26	GND	Ground	Ground
15	B25	INJ 3	Injector 3	15	B25	INJ 3	Injector 3	Injector 3
16	B24	INJ 4	Injector 4	16	B24	INJ 4	Injector 4	Injector 4
17	B23	IGN 8	EGR	17	B23	IGN 8	Evap	AC Idle Up
18	B22	Aux 2	Idle Control Open	18	B22	INJ 5	nc	A2W IC Pump On/Off
19	B21	nc	nc	19	B21	nc	nc	A2W pump monitor
20	B20	IGN 1	Igniter Output	20	B20	IGN 1	Igniter Output	Igniter Output
21	B19	Aux 12 sw. +12V	nc	21	B19	Aux 12 sw. +12V	nc	A2W Pump +12v (4Amp)
22	B18	Aux 13	TVIS	22	B18	DI4/G1 Trig 2	G1 Cam Sync	G1 Cam Sync
23	B17	Aux 4	Fuel Pump	23	B17	Trig GND	Trigger Ground	Trigger Ground
24	B16	GND	nc	24	B16	GND	nc	A2W Pump Ground
25	B15	DI4/G1 Trig 2	G1 Cam Sync	25	B15	Aux 13	nc	nc
26	B14	GND	Ground	26	B14	GND	Ground	Ground
31	C8	nc	nc	31	C8	nc	nc	nc
32	C7	AN Temp 4	nc	32	C7	AN Temp 4	VTA2	VTA2
33	C6	AN Volt 1	Nb Oxy.	33	C6	AN Volt 1	Nb Oxy.	Nb Oxy.
34	C5	Knock 1	Knock Sensor	34	C5	AN Volt 4	Toyota MAP	nc
35	C4	AN Temp 1	ECT	35	C4	AN Temp 1	ECT	ECT
36	C3	AN Temp 2	Air Temp (AFM)	36	C3	AN Temp 2	Air Temp (AFM)	Air Temp (Airbox)
37	C2	AN Volt 3	AFM Signal	37	C2	AN Volt 3	AFM Signal	Toyota MAP
38	C1	5V +	5V Ref.	38	C1	5V +	5V Ref.	5V Ref.
39	C16	Trig GND	Trigger Ground	39	C16	Aux 4	nc	Fuel Press. Relay
40	C15	DI 5	Test Conn. Lock Timing	40	C15	DI 5	Test Conn. Lock Timing	Test Conn. Lock Timing
41	C14	nc	NB Oxy. 2	41	C14	nc	Datalink TE2	Datalink TE2
42	C13	AN Volt 4	Toyota MAP	42	C13	Knock 1	Knock	Knock
43	C12	nc	TPS Idle Pos.	43	C12	nc	TPS Idle Pos.	TPS Idle Pos.
44	C11	AN Volt 2	TPS	44	C11	AN Volt 2	TPS	TPS
45	C10	AN Temp 3	EGR Temp	45	C10	AN Temp 3	EGR Temp	Air Temp (Manifold)
46	C9	GND	Ground	46	C9	GND	Ground	Ground
51	A11	DI 1	Start Position	51	A11	DI 1	Start Position	Start Position
52	A10	DI 2	AC Request	52	A10	DI 2	AC Request	AC Request
53	A9	DI 3	Speed Signal	53	A9	DI 3	Speed Signal	Speed Signal
54	A8	DI 8	ABS	54	A8	DI 8	Power Steering Input	AC Amplifier
55	A7	Aux 15	nc	55	A7	Aux 15	RLY	RLY
56	A6	IGN 6	Fuel Pump Speed Relay	56	A6	IGN 6	Power Steering Cut	ECO
57	A5	AUX 5	Check Engine Lamp	57	A5	AUX 5	Check Engine Lamp	Check Engine Lamp
58	A4	DI 7	Brake Switch	58	A4	DI 7	Brake Switch	Brake Switch
59	A3	nc	nc	59	A3	nc	nc	nc
60	A2	DI10	HL/Rear Def Load Req.	60	A2	DI10	HL/Rear Def Load Req.	HL/Rear Def Load Req.
61	A1	12V BATT	Battery 12V+	61	A1	12V BATT	Battery 12V+	Battery 12V+
62	A22	Aux 11	nc	62	A22	Aux 11	nc	nc
63	A21	nc	nc	63	A21	nc	nc	nc
64	A20	nc	nc	64	A20	nc	nc	ABS
65	A19	nc	nc	65	A19	nc	nc	nc
66	A18	nc	nc	66	A18	nc	nc	nc
67	A17	nc	nc	67	A17	nc	nc	nc
68	A16	nc	nc	68	A16	nc	nc	nc
69	A15	DI6	Power Steering Input	69	A15	DI6	ABS	LEV
70	A14	Aux 7	Power Steering Cut	70	A14	Aux 7	Fuel Pump	Fuel Pump
71	A13	14V +	14V +	71	A13	14V +	Groudn	Ground
72	A12	14V +	14V +	72	A12	14V +	EGR	EGR
Output Expansion	Expansion 1	Ground (Sensor)		Onboard MAP		AN Volt 12		
	Expansion 2	+14V		Onboard Wideband		AN Volt 7		
	Expansion 3	IGN2		On/Off of Onboard WB		Aux 16		
	Expansion 4	IGN3		ON/Off of Pin B19 Power		Aux 12	Max current 4.5A	
	Expansion 5	IGN4						
	Expansion 6	IGN7						
	Expansion 7	Aux 6		NOTE 1: 30 pin Juper bank and Jumpers J11 and J12 must be all in proper orientation for V1 or V2/V3 configuration per vehicle pinout prior to installation or powering up				
Input Expansion	Expansion 8	Aux 9						
	Expansion 9	Aux 10						
	Expansion 10	Aux 14						
	Expansion 11	Ground (Sensor)						
	Expansion 12	+5V						
	Expansion 13	AN Volt 8						
	Expansion 14	AN Volt 5						
CAN Expansion	Expansion 15	AN Volt 9		NOTE 2: Default Link base 3SGTE calibrations typically are set to use G1 Cam Sync, but if the G1 Cam Sync fails in the distributor, or is not providing a sufficient signal, it is possible to move the Trig2 jumpers to allow the G2 Cam sync to be used. Calibration reference angle will need to be increased by 360 degrees from the base calibration if this is to be used. Always verify proper timing sync with a timing light.				
	Expansion 16	AN Volt 6						
	Expansion 17	AN Volt 10						
	Expansion 18	AN Volt 11						
	Expansion 19	+5V						
	Expansion 20	Ground (Sensor)						
	Expansion 21	CAN Ground						
	Expansion 22	CAN 1 L						
	Expansion 23	CAN 1 H						
	Expansion 24	+14V						
	Expansion 25	Ground (Sensor)		This color indicates a jumper and possible software configuration difference between generations.				
	Expansion 26	CAN 2 L		This color indicates a jumper and possible software configuration difference between generations.				
	Expansion 27	CAN 2 H		Indicates input trigger jumper configuration difference between generations.				
	Expansion 28	+14V						
	Expansion 29	DI 9						
	Expansion 30	Ground (Sensor)						