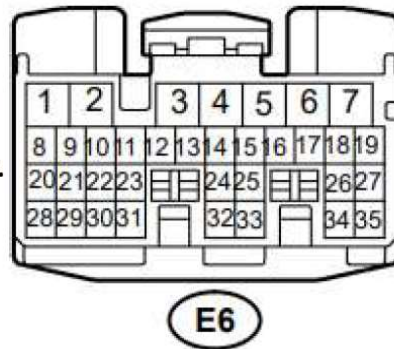


2002-2005 IS300  
ECU/Sensor Pinouts  
2002 Manual Trans.  
2002 Automatic Trans.



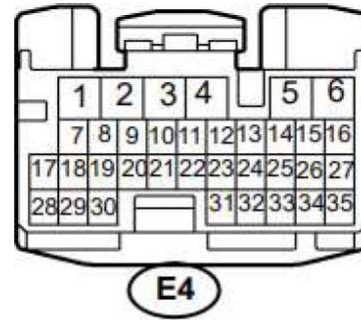
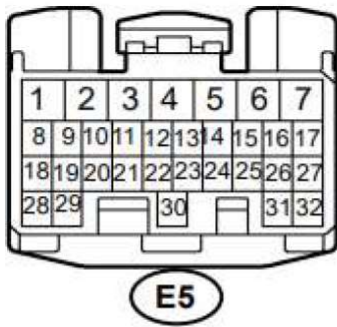
Pin	Color	Purpose
1	B-W	Shield for TCM M-,M+ (tape covered)
2	R	Throttle (TCM M-) (CAUTION! See pin 15)
3	W	Throttle (TCM M+)
4	BR	Gnd, center intake (joins E5-3)
5	Y-B	VVTi- (looks tan)
6	R-Y	VVTi+
7	GR	Oil Press Sw
8	L-B	From Rad Fan
9	Y	Throttle (TCM C-)
10	R-W	Throttle (TCM C+)
11	W-G	VSV #4 Evap
13	L-R	Injector 5
14	V	Injector 3(discolored looks L-brown)
15	R	Injector 1 (CAUTION! See pin 2)
24	G-Y	TPS VTA2
25	W-R	TPS VTA1
26	B-Y	Igniter pin5. IN3.to IGNpin 10
27	B-R	Igniter pin6. IN2.to IGNpin 2
29	(G)	Cam Sensor
31	(B-W)	Crank Sensor
32	(L)	Cam/Crank (-) joined
34	W-L	A/C magnetic clutch and lock sensor

E7 Connector "E on diagram"

Pin	Color	Purpose
1	(B)	Knock 1
2	(W)	Knock 2
3	G-R	A/T Neutral position
4	G-W	A/T 2L position
5	R-B	A/T Reverse Position
6	G	A/T P position
7	BR	Gnd Front Intake (shield gnd) Joins E5-1)
9	LG	O2 B1S1 heater (light green)
10	LG-B	SLU-
11	G-W	SLU+
12	R-W	SLN-
13	Y-R	SLN+
14	W-R	Oil Level Sensor
15	L-R	Alternator pin 1
16	B-R	S4
17	W-L	S3
18	G-Y	S2
19	Y	S1
20	G	NCO-(O/D direct clutch spd sensor
21	R	NCO+(O/D direct clutch spd sensor
22	R-L	SP2-(Vehicle Speed Sensor)
23	L-Y	SP2+(Vehicle Speed Sensor)
28	(W)	O2 B1S1 signal (discolored, looks pink)
34	R-B	SLT-
35	B-Y	SLT+

E6 Connector "D on diagram"





Pin	Color	Purpose
1	W-B	Gnd. F. Intake (joins E6-7 BR)
2	W-B	
3	BR	Gnd, c. intake (joins E7-4)
7	B-L	Igniter pin4. IGF
13	GR-B	Igniter pin7. IN1 (looks light brown)
15	B-W	Injector 6
16	R-W	Injector 4
17	L	Injector 2
21	Y-G	VSV #2 ACIS(discolored looks L-Brown)
22	Y-R	VSV #3 Cannister closed(discolored as above)
23	V	P/S pressure signal
24	R	Coolant temp sensor
26	L-W	MAF
27	G-B	MAF (looks blue)
28	(B)	O2 B2S1 signal
30	P	O2 B2S1 heater
32	L-B	MAF

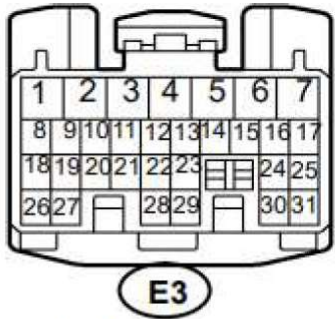
E5 Connector "C on diagram"

Pin	Color	Purpose
2	R-L	CEL (malfunction indicator)
3	R-W	Fm multifunction Fm airbag
4	G-W	Fm Stop Light SW
5	GR-R	STFU (shift up??)
6	GR-G	STFD (shift down??)
7	G-B	O2 B1S2 heater
8	R-W	O2 B2S2 heater
9	G	To Skid Control
10	P	VSV #8 pressure sw valve
11	W-L	To Speedo
12	Y-G	A/T LL position
13	Y-R	GR-B A/T Drive Position. Y-R O2 M/T
14	LG-B	A/T To shift lock control ECU
15	G-Y	A/T Transmission control switch
16	B	Tach, fm igniter pin9
17	(W)	O2 B2S2 signal
18	R-Y	Fm Skid ECU
19	P	To Skid Control (L-B[pin30] on O2 M/T)
20	O	Multiplex - Theft deter.
21	O	Multiplex - Theft deter.
22	LG	Datalink connector 3 pin15
23	P-B	Transponder key pin 4
24	V	Transponder key pin 3 looks brown
25	L-W	V# 7 Vapor Pressure sensor
28	(W)	O2 B1S2 signal
29	W-G	Fm Skid ECU
30	L-B	To Skid Control(P[pin19]on O2 M/T)
31	L-R	Cruise control switch
32	L-W	Pedal Position Sensor VPA2
33	P-L	Pedal Position Sensor VPA1
34	BR	Gnd: P/S press.TPS.PPS.MAF.Vapor
35	L-Y	P/S oil press. 5V Positive

E4 Connector "B on diagram"







A M

Pin	Color	Purpose
1	W-B	Gnd. Left Fender Apron
2	W-B	Gnd. Left Fender Apron
4	B-Y	Power. EFI Relay, pin 5
5	B-R	Switched power. All
6	B-R	VSV/O2/transponder/MAF
7	L-W	ETCS fuse
8	B-L	Stop light switch
11	B-Y	to unlock warning
12	B	fm clutch start/park neutral
13	B-O	EFI relay signal (+) pin 1
14	G-Y	Circuit opening relay (-) pin 2
15	G-R	Fuel Pump Relay signal (-)
16	L-W	From A/C comp relay
17	B-O	Ignition Switch 7.5A fuse
18	LG-R	Ambient air temp (+) A/C
20	L	Fm airbag sensor
25	L-Y	A/C dual pressure switch
26	R-W	fm multi display/airbag sens
30	W	Security Indicator Light
31	G-B	Transponder key pin 2

E3 Connector "A on diagram"

MAF wiring		
ECU	Color	Purpose
A5	B-R	Switched power fm ECU. All
A6	B-R	VSV/O2/transponder/MAF
B34	BR	Gnd: P/S press.TPS.PPS.MAF.Vapor
C26	L-W	MAF
C27	G-B	MAF
C32	L-B	MAF

Igniter wiring			
Pin	ECU	Color	Purpose
1		B-R	Ignition coil 1
2		G	Ignition coil 2
3	D7	BR	Gnd F. Intake. For shields
4	C7	B-L	IGF
5	E26	B-Y	IN3.to IGNpin 10
6	E27	B-R	IN2.to IGNpin 2
7	C13	GR-B	IN1
9		B-W	Power from IGN Sw. Joins coil-
10		B	Ignition coil 3

TPS wiring		
ECU	Color	Purpose
B35	L-Y	5V Positive
E25	W-R	TPS VTA1
E24	G-Y	TPS VTA2
B34	BR	Gnd: P/S press.TPS.PPS.MAF.Vapor

Throttle Control Motor			
Pin	ECU	Color	Purpose
1	E2	R	Throttle (TCM M-)
2	E3	W	Throttle (TCM M+)
3	E10	R-W	Throttle (TCM C+)
4	E9	Y	Throttle (TCM C-)

Power Steering Pressure sensor wiring			
Pin	ECU	Color	Purpose
1	B34	BR	Gnd: P/S press.TPS.PPS.MAF.Vapor
2	C23	V	P/S pressure signal
3	B35	L-Y	5V positive

Cam Position Sensor wiring			
Pin	ECU	Color	Purpose
E29	(G)	G	Cam Sensor
E32	(L)	L	Cam/Crank (-) joined

Crank Position Sensor wiring			
Pin	ECU	Color	Purpose
E31	(B-W)	B-W	Crank Sensor
E32	(L)	L	Cam/Crank (-) joined

