

Wiring Pin-out to suit 1UZ-FE conversion - UZZ31 Series 1 into JZA80 Series 1

Specifically: UZZ31, JDM version, 1UZ-FE, 4SPD Auto, w/ ABS, w/ SRS Airbag, w/ Airbag Suspension, w/o EMV
JZA80, JDM version, 2JZ-GE, 5SPD manual w/ ABS, w/o SRS Airbag.

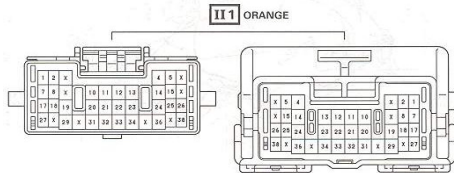
The text **highlighted in red** was not 100% confirmed at the time I last printed this document (and I can't find the printed sheet with the corrections). If you have the complete harness it won't be hard to trace back.

Cells **highlighted in purple** refer to wiring specific to the Cruise Control. Cells **highlighted in blue** refer to wiring that had to be run in a new / separate harness.

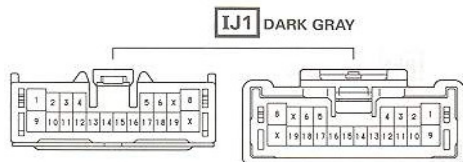
As much care as possible has been taken, but I do not guarantee this document to be 100% accurate - I thoroughly recommend buzzing-out your loom and confirming the pin configuration for yourself. Think of this document as a head-start as opposed to starting from scratch.

Originally posted on Toymods.net forum by AndyTTR, based on diagrams posted by Mos: <http://www.toymods.net/forums/showpost.php?p=832322&postcount=133>
and also http://www.mkiv.com/manual/1995_electrical_manual/

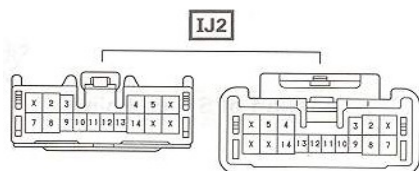
Andrew La'Brooy - 2009



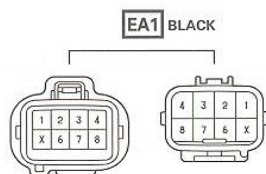
JZA80 Connector: II1				Equivalent Soarer Connection		
Pin	Colour	Function	Diagram	Connector	Pin	Colour
1		X	X			
2	L-R	from VSS	COMBINATION METER	IK1	7	L-R
3		X	X			
4	LG-B	to PPS SOLENOID (SOL+)	PPS	IJ2	6	LG-B
5		X	X			
6	LG	PIN 5A @ ECU to CAT HEAT LAMP.	JDM VERSION SPECIFIC	IK1	19	W-R
7		X	X			
8	R	from VSS	COMBINATION METER	IK1	6	R
9		X	X			
10	L	from A/C MAG CLUTCH (CLUTCH SIDE)	RADIATOR FAN & A/C	EB1	1	L
11	P	to SP1 @ ECU	COMBINATION METER	IJ2	3	P
12	B-Y	to AB @ DLC	SRS AIRBAG	IK1	10	B-Y
13	B-O	to IGSW @ ECU (A/T)	ENGINE CONTROL	IJ2	11	B-O
14	LG-R	to PPS SOLENOID (SOL-)	PPS	IJ2	16	LG-R
15	L-B	to CHECK ENGINE LIGHT	ENGINE CONTROL	IK1	18	L-Y
16		X	X			
17		X	X			
18		X	X			
19	Y-L	from COOLANT TEMP SENSOR	COMBINATION METER	IK1	9	Y-G
20	V-W	to A/C LOCK SENSOR	RADIATOR FAN & A/C	II1	1	BR
21	P-B	to TC @ DLC	CRUISE CONTROL / ABS	IK1	1	P-B
22		X	X			
23	Y	IG @ ALTERNATOR	CHARGING			
24	BR	to GND (MANIFOLD)	COMBINATION METER	IK2	11	BR-B
25	Y-B	from OIL PRESSURE SWITCH	COMBINATION METER	IK1	20	Y-B
26	G-Y	to LOCK IN @ A/C AMP	RADIATOR FAN & A/C	II1	4	G-Y
27		X	X			
28		X	X			
29	B-W	to TACHO from IGNITER	COMBINATION METER	IK1	8	B
30		X	X			
31	L-R	to MGC @ A/C AMP from 'A/C' @ ECU	RADIATOR FAN & A/C	II1	5	L-O
32	R-Y	to ELS @ ECU	REAR WINDOW DEFOGGER			
33	G	from ENGINE OIL LEVEL SENSOR	COMBINATION METER	IK1	23	V-R
34	Y-G	L @ ALTERNATOR	CHARGING			
35		X	X			
36	R-B	from REVERSE LIGHT SWITCH	BACK-UP LIGHT	IK1	11	R-B
37		X	X			
38		X	X			



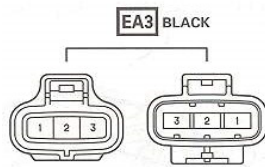
JZA80 Connector: IJ1				Equivalent Soarer Connection		
Pin	Colour	Function	Diagram	Connector	Pin	Colour
1	B-O	to '+' @ IGNITION COIL	IGNITION			
2		X	X			
3	R	to IDL1 @ ECU	CRUISE CONTROL	IJ2	1	R
4	V-W	to FPC @ ECU	ENGINE CONTROL (FP ECU)	IJ1	14	R-G
5	Y-L	to TE1 @ TDLC	ENGINE CONTROL	IK1	4	LG
6		X	X			
7	B	to STARTER RELAY via (EA1)	STARTING (when NSW bridged)	IJ1	6	B-W
8	L-R	to FP @ DLC	ENGINE CONTROL	IJ1	1	G
9	B-O	to B+ @ IGNITER (FROM IG2 PWR)	IGNITION			
10	Y-B	OIL PRESSURE SWITCH	(loop back on IJ1 pin 25)			
11	G-W	from STOP LIGHT SWITCH	STOP LIGHT	IJ2	7	G-W
12	G	to DI @ ECU	ENGINE CONTROL (FP ECU)	IJ1	8	P
13	LG	to ENG @ TDLC & VF1 @ DLC	ENGINE CONTROL	IK1	3	GR-Y
14		X	X			
15	Y	to TS @ DLC	ABS	IK2	25	V
16	L	to WA @ DLC	ABS	IK2	2	L
17	P-G	from TE2 @ ECU	ENGINE CONTROL	IK1	2	G-Y
18	BR	to E1 @ TDLC (GND to CYL. HEAD)	ENGINE CONTROL	IK2	23	BR
19	LG-B	to Cco @ DLC & 29A @ ECU	CAT TEMP. SENSOR	IK2	9	LG-B
20		X	X			



JZA80 Connector: IJ2 (NOT APPLICABLE TO N/A MANUAL - PIN OUT NOT CONFIRMED)				Equivalent Soarer Connection		
Pin	Colour	Function	Diagram	Connector	Pin	Colour
1		X	X			
2		X	TRACTION CONTROL (TT ONLY)			
3	Y	to KD @ ecu (A/T)	ECT & A/T INDICATOR			
4	~	shielding for OX @ SUB OXY SENSOR	ENGINE CONTROL			
5	BR-W	to SUB HEATED OXY SENSOR (CALIF)	ENGINE CONTROL			
6		X	X			
7		X	X			
8		X	X			
9	B	PARK / NEUTRAL SW. (A/T)	STARTING			
10	R-L	to S2 @ ECU (A/T)	CRUISE CONTROL			
11	BR-B	to OD1 @ ECU (A/T)	CRUISE CONTROL			
12	G-Y	to M @ ECU (A/T)	ECT & A/T INDICATOR			
13	B-W	PARK / NEUTRAL SW. (A/T)	STARTING			
14	R-L	to OX @ SUB HEATED OXY SENSOR	ENGINE CONTROL			
15		X	X			
16		X	X			



JZA80 Connector: EA1				Equivalent Soarer Connection		
Pin	Colour	Function	Diagram	Connector	Pin	Colour
1	L	A/C MAG CLUTCH RELAY to MAG CLUTCH	RAD FAN & A/C	EB1	1	L
2	W-G	A/C MAG CLUTCH RELAY to ACMG @ ECU	RAD FAN & A/C	EB1	2	W
3	B	to STARTER RELAY (hot side of coil)	STARTING	EB1	3	B
4	B-Y	to BATT @ ECU.	ENGINE CONTROL	EB1	4	B-Y
5		X	X			
6	B-R	to WB @ DLC	ABS	EB1	6	BR-R
7		X	X			
8	GR	from EFI MAIN RELAY (coil) to M-REL @ ECU	ENGINE CONTROL	EB1	8	B-O

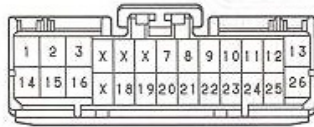


JZA80 Connector: EA1				Equivalent Soarer Connection		
Pin	Colour	Function	Diagram	Connector	Pin	Colour
1	B	to STARTER SOLENOID from ST. RELAY (hot)	STARTING	EB2	1	B
2	W	from S @ ALTERNATOR to ALT-S fuse	CHARGING			
3	B-R	to B+ @ ECU	ENGINE CONTROL	EB2	3	B-R

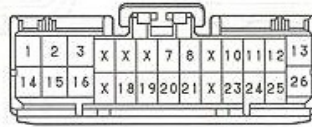


JZA80 Connector: C4 (Cruise Control Actuator)				Equivalent Soarer Connection		
Pin	Colour	Function	Diagram	Connector	Pin	Colour
1	R-B	VR1	CRUISE CONTROL	CC ACT.	1	R-B
2	LG-R	VR2	CRUISE CONTROL	CC ACT.	2	LG-R
3	PG	VR3	CRUISE CONTROL	CC ACT.	3	P
4	BR-B	GND	CRUISE CONTROL	CC ACT.		
5	R-L	L	CRUISE CONTROL	CC ACT.	5	R-L
6	LG	MO	CRUISE CONTROL	CC ACT.	6	LG
7	G-R	MC	CRUISE CONTROL	CC ACT.	7	G-R

(A/T) C16 GREEN



(H/T) C16 GREEN



JZA80 Connector: C16 (Cruise Control ECU)				Equivalent Soarer Connection		
Pin	Colour	Function	Diagram	Connector	Pin	Colour
1	W	STP+	CRUISE CONTROL	CC ECU	1	W
2	G-R	CLUTCH SW or A/T INDICATOR	CRUISE CONTROL	CC ECU	2	B-W
3	BR-W	PKB (park brake switch)	CRUISE CONTROL	CC ECU	3	R-W / B
4		X	X			
5		X	X			
6		X	X			
7	O	PI (A/D INDICATOR LIGHT)	CRUISE CONTROL	CC ECU	5	Y-B
8	P-B	to TC @ DLC	CRUISE CONTROL	CC ECU	8	P-B
9	BR-B	OD (A/T) - to OD1 @ ECU	CRUISE CONTROL	CC ECU	9	BR-Y
10	B-W	L (> STOP LIGHT SW. > ACTUATOR)	CRUISE CONTROL	CC ECU	10	B-W
11	G-R	MC (ACTUATOR)	CRUISE CONTROL	CC ECU	11	G-R
12	LG	MO (ACTUATOR)	CRUISE CONTROL	CC ECU	12	LG
13	W-B	GND	CRUISE CONTROL	CC ECU	13	W-B
14	B-R	B (IG pwr)	CRUISE CONTROL	CC ECU	14	B-R
15	W-R	BATT (from ECU-B fuse)	CRUISE CONTROL	CC ECU	15	R
16	G-W	STP-	CRUISE CONTROL	CC ECU	16	G-W
17		X	X			
18	L	CCS (stalk input)	CRUISE CONTROL	CC ECU	18	L
19	R-Y	CMS (MAIN SW. on stalk)	CRUISE CONTROL	CC ECU	4	R-L
20	P	SPD (input from odo.)	CRUISE CONTROL	CC ECU	20	P
21	R	IDL (to IDL1 @ ECU)	CRUISE CONTROL	CC ECU	23	R
22	R-L	ECT (A/T) - to S2 @ ECU	CRUISE CONTROL	CC ECU	22	W-R
23	R-B	VR1 (ACTUATOR)	CRUISE CONTROL	CC ECU	24	R-B
24	LG-R	VR2 (ACTUATOR)	CRUISE CONTROL	CC ECU	25	LG-R
25	P-G	VR3 (ACTUATOR)	CRUISE CONTROL	CC ECU	26	P
26	BR-B	L- (to GND @ ACTUATOR)	CRUISE CONTROL			

Connector: COOLING FAN ECU				Connects to...		
Pin:	Colour	Function:	Diagram	Connector	Pin	Colour
1	B-R	to IGB from ECU-IG fuse	HYDRAULIC FAN	IJ1 (SOARER)	12	B-R
2	L-Y	SOL+ (to SOLENOID VALVE)	HYDRAULIC FAN	IJ2 (SOARER)	5	L-Y
3	B	SOL- (to SOLENOID VALVE)	HYDRAULIC FAN	IJ2 (SOARER)	15	B
4	W-B	E (to GND)	HYDRAULIC FAN			
5	R	IDL (to THROTTLE POSITION SENSOR)	HYDRAULIC FAN	IJ1 (SUPRA)	3	R
6	B	TAC (from IGNITOR No. 1)	HYDRAULIC FAN	IJ1 (SUPRA)	29	B-W
7	R-G	COOL (from A/C CONTROL ASSEMBLY)	HYDRAULIC FAN			
8	L-R	HP (A/C HIGH PRESSURE SW)	HYDRAULIC FAN			
9	P-L	TH+ (to WATER TEMP SENSOR)	HYDRAULIC FAN (TO DLC)	IJ2 (SOARER)	14	P-L
10	W	TH- (to WATER TEMP SENSOR)	HYDRAULIC FAN			