Aisin A343E

Calisto TCU Layout

	Wire Colors											Wire Colors	
			Sim	Priority2	Pin Names				Pin Names	Priority2	Sim		
	E72	E71	leds			P1 - 12 Way Input					leds	E71	E72
		Yellow/Red			Low Range Input	Water Temp	7	1	Air Temp	Oil 10K		Yellow/Black	Yellow/Black
	Yellow/Green	Yellow/Green			Shifter In	Lambda	8	2	TPS	TPS		Yellow	Yellow
					Sensors Power	.+5 Volt Out	9	3	MAP	4 Map Select		Green Red	
	Orange	Orange			12V Ignition In	.+12 Volt Ign	10	4	GND	Battery -		Black	Black
	Blue	Blue			Speed	Cam Sensor	11	5	CAM Power	Speed Sens +		Red	Red
	Green	Green			RPM	Crank Sensor	12	6	Crank Power	RPM Sens +			
							Internal		1.15 Bar Alt Sensor				
		E62				P2 - 10 Way Output						E62	
		Black/Red	N1		Line Pressure	HV Negative 1	6	1	HV Negative 2	Lockup Pressure	N2	Black/Purple	
		Black/Brown	N3		N/C	HV Negative 3	7	2	HV Negative 4	N/C	N4	Black/Orange	
		Black/Yellow	N5		Starter Lockout	HV Negative 5	8	3	HV Negative 6	Reverse Light	N6	Black/White	
		Green	RPM		Speed Out	LV Negative 2	9	4	LV Negative 1	Relay Out	Relay	Blue/Black	
		Blue/White	N7		GP2	HV Negative 7	10	5	HV Negative 8	GP1	N8	Blue/Orange	
						P4 - 4 Way Serial							
			Led1		N/C	HV Negative 9	3	1	HV Negative 10	N/C	Led2		
			P5		N/C	LV Positive 5	4	2	LV Positive 6	N/C	P6		
		E63				P3 - 8 Way Output						E63	
		Red/White	P1		Shift A	LV Positive 1	5	1	LV Positive 2	Shift B	P2	Red/Yellow	
		Red/Orange	P3		Lockup LED	LV Positive 3	6	2	LV Positive 4	N/C	P4	Red/Green	
		Red			Battery +	.+12 Volt In	7	3	.+12 Volt In	Battery +		Red	
		White	GP1		N/C	HV Negative 11	8	4	HV Negative 12	Retard	GP2	Blue	
OT21	OT20	USB				6 Way USB						USB	OT20	OT21
Green	Green	N/C		Up Switch	Overdrive	Tuning Pot	4	1	Dual Map Sw	Second Start	Down Switch	N/C	Yellow	Yellow
Yellow	Yellow	Yellow				Receive	5	2	Transmit			Green	Green	Green
Red	Red	Red				.+5 Volt Out	6	3	GND			Blue	Blue	Black

Note!! Coil and Injector numbers used here are firing phases from the ECU. It is not the firing order on your engine.
Refer to the drawings for Phase to firing order comparison.

Negative 1 to 6 = Negative drivers 41 Volt 19 Amp Drivers
Positive 1 to 4 = Positive Drivers 12 Volt 6 Amp current limit drivers
Coil Negative 1 to 6 = Negative Coil Drivers for Basic Coils 500 Volt 18 Amp Drivers
Tuning Pot and Coil Driver 6 share the same Micro Connection. Selection with Jumper J6 on board
Dual Map Switch and Coil Negative 5 share the same Micro Connection. Selection with Jumper J6 on board
Drivers not installed on PCB
An optional 3 Bar map sensor can be soldered onto board. It can be used as Altitude or MAP sensor. For an internal MAP sensor you need to make a hole in the lid for the pipe to come through.
Basic Coil = Coil without driver - 0.5 to 0.9 Ohm Primary winding - Charges with earth signal and discharges with open signal
Smart Coil = Coil with Built in driver - Charges with positive signal and discharges with earth signal which is provided by the driver and a pull down resistor
If you use the 3 Bar onboard sensor for MAP then you must use a 2.5 Bar external sensor for Altitude.

Coil Phaze	Coil Phaze	Fire Order Ex. 1 5 3 6 2 4	
		Wasted Spark	
Coil Drv 1	Coil Drv 1	1 - 6	
Coil Drv 2	Coil Drv 2	5 - 2	
Coil Drv 3	Coil Drv 3	3 - 4	

Inject Phaze	Order Ex. 1 5 3 6 2 4
	Split Seq
Inj Drv 1	1 - 6
Inj Drv 2	5 - 2
Inj Drv 3	3 - 4