

Aisin U341E 4 Speed

Mercury3 TCU Layout

Wire Colors		Software Selectable		Mercury3 TCU Layout						Software Selectable		Wire Colors					
		Sim leds	Priority2	Priority1							Priority1	Priority2	Sim leds				
						P1 - 12 Way Input											
M70-P1	M71-P1				Water Temp 2K	7	1	Air Temp 10K	Oil Temp 10K	Low Range					Yellow/Black	Yellow/Black	
Yellow/Red	Yellow/Red		Low Range	Oil Temp 3.5K	Lambda	8	2	TPS	TPS					Yellow	Yellow		
Yellow/Green	Yellow/Green			Shifter Switch	.+5 Volt Out	9	3	MAP						N/C	N/C		
Red	Red				.+12 Volt Ign	10	4	GND						Black	Black		
Orange	Orange				TDC Sensor	11	5	Cam2 Sensor						N/C	N/C		
Blue	Blue			Speed	Crank Sensor	12	6	Cam1 Sensor						N/C	N/C		
Blue	Green			RPM													
					P2 - 10 Way Output												
	M72-P2 / M68-P2				P2 12 Volt	6	1	P1 12 Volt	S1 SHIFT					P1	Red/White		
	Red/Yellow	P2		S2 SHIFT	P4 12 Volt	7	2	P3 12 Volt	ST 3-4 Shift					P3	Red/Orange		
	Red/Green	P4			P6 12 Volt	8	3	P5 12 Volt	SLT Line Pres					P5	Red/Blue		
	Red/Black	P6		SL Lockup Pres	Electronic Relay	9	4	Relay Out						Relay	Blue/Red		
	N/C	E Rel			.+12 Volt In	10	5	.+12 Volt In							Red		
	Red																
					P3 - 8 Way Output												
	M73-P3				N6 Ground	5	1	N5 Ground	Lockup LED					N5	Black/Purple		
	Black/Red	N6		Tiptronic LED	N4 Ground	6	2	N3 Ground	Low Range LED					N3	Black/Orange		
	Black/Brown	N4		Retard	N2 Ground	7	3	N1 Ground	2nd Start LED					N1	Black/White		
	Black/Yellow	N2		Overdrive LED	RPM Out	8	4	GPN1 Ground	GP1					GP1	Blue/Orange		
	Green	RPM															
					P4 - 6 Way In/Output												
	M74-P4				Fuel Sensor	4	1	GPN2 Ground	GP2					GP2	Blue/White		
	Brown			4 Map Switch	POT	5	2	Altitude	Second Start	Down Switch				N8	Purple		
	Green/Yellow	N7	Up Switch	Overdrive	.+5 Volt Out	6	3	GND							Black		
	Red																
					P5 - 4 Way Output												
	M75-P5				N8 Ground	3	1	N7 Ground	Starter Lockout						Blue/Grey		
	Blue/Red				P8 12 Volt	4	2	P7 12 Volt						P7	Red/Blue		
	Red/Black	P8		Reverse Lights													
					Comms - 6 Way USB/Firm												
	USB				Programmer 2	4	1	Programmer 1							N/C		
	N/C				Receive	5	2	Transmit							Green		
	Yellow				.+5 Volt Out	6	3	GND							Blue		
	Red																

Firmware Program

Mercury2 TCU Intermediate Lexus A343E Ver 3.3B

Firmware Class Intermediate

2 GP output available

3.5K and 10K oil temperature sensor selections are allowed. Note that the Low Range input will move with this selection. Should no sensor be selected then the Low Range switch will be on P1-Pin1 10K input.

When overdrive or second start is selected then the tiptronic buttons will be disabled and there functions changed to these functions.

Low range, Overdrive and Second Start could be used with different map selections without connections to the tranny or buttons.

Shifter	Gear allowed	Engine Break
P	1	
R	1	
N	1	
D	1,2,3,4	3,4
2	1,2,3	2,3
1	1,2	1,2