

Aisin A343E 4 Speed

Mercury2 Input / Outputs

Wire Colors		Firmware		Mercury2 Input / Outputs				Firmware		Wire Colors	
		Priority2	Priority1					Priority1	Priority2		
MTSX01/2	MTWX01/2			P1 - 12 Way Input						MTWX01/2	MTSX01/2
Green	Green	Low Range	Oil Temp 3.5K	Water Temp 2K	7	1	Air Temp 10K	Oil Temp 10K	Low Range	Yellow	Yellow
Blue	Blue		Shifter Switch	Lambda	8	2	TPS	TPS		Yellow	Blue
Red	Red			.+5 Volt Out	9	3	MAP			Blue	Blue
Orange	Orange			.+12 Volt Ign	10	4	GND			N/C	Black
Blue	Blue		Speed	TDC Sensor	11	5	Cam2 Sensor			N/C	N/C
Blue	Green		RPM	Crank Sensor	12	6	Cam1 Sensor			N/C	N/C
				P2 - 10 Way Output						MTWX01/2	MTSX01/2
Red/Yellow	Red/Yellow		SHIFT2	P2 12 Volt	6	1	P1 12 Volt	SHIFT1		Red/White	Red/White
Red/Green	Red/Green			P4 12 Volt	7	2	P3 12 Volt			Red/Orange	Red/Orange
Red/Black	Red/Black		Lockup Pres	P6 12 Volt	8	3	P5 12 Volt	Line Pres		Red/Blue	Red/Blue
N/C	N/C			Electronic Relay	9	4	Relay Out			Blue/Red	Blue/Red
Red	Red			.+12 Volt In	10	5	.+12 Volt In			Red	Red
				P3 - 8 Way Output						MTWX01/2	MTSX01/2
Black/Red	Black/Red		Tiptronic LED	N6 Ground	5	1	N5 Ground	Lockup LED		Black/Purple	Black/Purple
Black/Brown	Black/Brown		Retard	N4 Ground	6	2	N3 Ground	Low Range LED		Black/Orange	Black/Orange
Black/Yellow	Black/Yellow		Overdrive LED	N2 Ground	7	3	N1 Ground	2nd Start LED		Black/White	Black/White
Green	Green			RPM Out	8	4	GPN1 Ground	GP1		Blue/Orange	Blue/Orange
				P4 - 6 Way In/Output						MTWX01/2	MTSX01/2
Blue	Blue		4 Map Switch	Fuel Sensor	4	1	GPN2 Ground	GP2		Blue/White	Blue/White
Red	Red	Up Switch	Overdrive	POT	5	2	Altitude	Second Start	Down Switch	Blue	Blue
Red	Red			.+5 Volt Out	6	3	GND			Black	Black
				P5 - 4 Way Output						MTWX01/2	MTSX01/2
Blue	Blue			N8 Ground	3	1	N7 Ground	Starter Lockout		White	White
Green	Green		Reverse Lights	P8 12 Volt	4	2	P7 12 Volt			Yellow	Yellow
				Comms - 6 Way USB/Firm						USB	USB
N/C	N/C			Programmer 2	4	1	Programmer 1			N/C	N/C
Yellow	Yellow			Receive	5	2	Transmit			Green	Green
Red	Red			.+5 Volt Out	6	3	GND			Blue	Blue

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