

## AODE-4R70W 4 Speed

### Mercury3 TCU Layout

Wire Colors				Software Selectable		Mercury3 TCU Layout						Software Selectable		Wire Colors	
		Sim leds	Priority2	Priority1							Priority1	Priority2	Sim leds		
<b>M70-P1</b>	<b>M71-P1</b>				<b>P1 - 12 Way Input</b>									<b>M71-P1</b>	<b>M70-P1</b>
Yellow/Red	Yellow/Red			Low Range	Water Temp	7	1	Air Temp	Oil Temp 10K				Yellow/Black	Yellow/Black	
Yellow/Green	Yellow/Green			Shifter Switch	Lambda	8	2	TPS	TPS				Yellow	Yellow	
Red	Red				.+5 Volt Out	9	3	MAP					N/C	N/C	
Orange	Orange				.+12 Volt Ign	10	4	GND					Black	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	
					<b>P2 - 10 Way Output</b>									<b>M72-P2 / M68-P2</b>	
	<b>M72-P2 / M68-P2</b>	P2		Tiptronic LED	P2 12 Volt	6	1	P1 12 Volt	Lockup LED			P1	Red/White		
	Red/Yellow			Overdrive LED	P4 12 Volt	7	2	P3 12 Volt	2nd Start LED			P3	Red/Orange		
	Red/Green	P4			P6 12 Volt	8	3	P5 12 Volt	Low Range LED			P5	Red/Blue		
	Red/Black	P6			Electronic Relay	9	4	Relay Out				Relay	Blue/Red		
	N/C	E Rel			.+12 Volt In	10	5	.+12 Volt In					Red		
	Red				<b>P3 - 8 Way Output</b>									<b>M73-P3</b>	
	<b>M73-P3</b>	N6		Retard	N6 Ground	5	1	N5 Ground				N5	Black/Purple		
	Black/Red			Line Pressure	N4 Ground	6	2	N3 Ground	Lockup Pressure			N3	Black/Orange		
	Black/Brown	N4		Shift Sol 2	N2 Ground	7	3	N1 Ground	Shift Sol 1			N1	Black/White		
	Black/Yellow	N2			RPM Out	8	4	GPN1 Ground	GP1			GP1	Blue/Orange		
	Green	RPM			<b>P4 - 6 Way In/Output</b>									<b>M74-P4</b>	
	<b>M74-P4</b>			4 Map Switch	Fuel Sensor	4	1	GPN2 Ground	GP2			GP2	Blue/White		
	Brown			Overdrive	POT	5	2	Altitude	Second Start	Down Switch		N8	Purple		
	Green/Yellow	N7	Up Switch		.+5 Volt Out	6	3	GND					Black		
	Red				<b>P5 - 4 Way Output</b>									<b>M75-P5</b>	
	<b>M75-P5</b>			Reverse Lights	N8 Ground	3	1	N7 Ground	Starter Lockout				P7	Red/Blue	
	Blue/Red				P8 12 Volt	4	2	P7 12 Volt							
	Red/Black	P8			<b>Comms - 6 Way USB/Firm</b>									<b>USB</b>	
	<b>USB</b>				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 Combo Ford AODE 4R70W Ver 3.3D**

Reverse lockout is only on the 5 solenoid model.

2 GP output available

Only 10K oil temperature sensor selection is allowed.

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
3	1,2,3	2,3
2	1,2	1,2
1	1	1