

GM 4L60E 4 Speed

Mercury3 TCU Layout

Wire Colors		Sim leds	Software Selectable		Priority1			Priority2		Sim leds	Wire Colors	
M70-P1	M71-P1		Priority2	Priority1				Priority1	Priority2		M71-P1	M70-P1
P1 - 12 Way Input												
Yellow/Red	Yellow/Red			Oil Temp 3.5K	Water Temp 2K	7	1	Air Temp 10K	Low Range		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
P2 - 10 Way Output												
	M72-P2 / M68-P2				P2 12 Volt	6	1	P1 12 Volt	Shift A Solenoid		M72-P2 / M68-P2	
Red/Yellow	P2			Shift B Solenoid	P4 12 Volt	7	2	P3 12 Volt	3-2 Shift		P1	Red/White
Red/Green	P4		(If 2 Solenoids)	Lockup Solenoid	P6 12 Volt	8	3	P5 12 Volt	Line Pressure		P3	Red/Orange
Red/Black	P6		(Later Models)	Lockup Pressure	Electronic Relay	9	4	Relay Out			P5	Red/Blue
N/C	E Rel				.+12 Volt In	10	5	.+12 Volt In			Relay	Blue/Red
Red												Red
P3 - 8 Way Output												
	M73-P3				N6 Ground	5	1	N5 Ground	Lockup LED		M73-P3	
Black/Red	N6			Tiptronic LED	N4 Ground	6	2	N3 Ground	Low Range LED		N5	Black/Purple
Black/Brown	N4			Retard	N2 Ground	7	3	N1 Ground	2nd Start LED		N3	Black/Orange
Black/Yellow	N2			Overdrive LED	RPM Out	8	4	GPN1 Ground	GP1		N1	Black/White
Green	RPM										GP1	Blue/Orange
P4 - 6 Way In/Output												
	M74-P4				Fuel Sensor	4	1	GPN2 Ground	GP2		M74-P4	
Brown				4 Map Switch	POT	5	2	Altitude	Second Start		GP2	Blue/White
Green/Yellow	N7		Up Switch	Overdrive	.+5 Volt Out	6	3	GND			N8	Purple
Red												Black
P5 - 4 Way Output												
	M75-P5				N8 Ground	3	1	N7 Ground	Starter Lockout		M75-P5	
Blue/Red					P8 12 Volt	4	2	P7 12 Volt			P7	Blue/Grey
Red/Black	P8			Reverse Lights								Red/Blue
Comms - 6 Way USB/Firm												
	USB				Programmer 2	4	1	Programmer 1			USB	
N/C					Receive	5	2	Transmit				N/C
Yellow					.+5 Volt Out	6	3	GND				Green
Red												Blue

Firmware Program
Mercury2 TCU Advance GM 4L60E Ver 3.3B

Firmware Class Intermediate

2 GP output available

3.5K and 2K oil temperature sensor selections are 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	1,2,3	
2	1,2	
1	1	