

					ZF 5HP24 5 Speed									
Wire Colors			Software Selectable		Mercury2 TCU Layout					Software Selectable		Wire Colors		
		Sim leds	Priority2	Priority1						Priority1	Priority2	Sim leds		
MTSX01/2	MTWX01/2				P1 - 12 Way Input								MTWX01/2	MTSX01/2
Green	Green			Oil Temp 2K	Water Temp	7	1	Air Temp	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
MTSX01/2	MTWX01/2				P2 - 10 Way Output								MTWX01/2	MTSX01/2
Red/Yellow	Red/Yellow	P2		Tiptronic LED	P2 12 Volt	6	1	P1 12 Volt	Lockup LED			P1	Red/White	Red/White
Red/Green	Red/Green	P4		Overdrive LED	P4 12 Volt	7	2	P3 12 Volt	2nd Start LED			P3	Red/Orange	Red/Orange
Red/Black	Red/Black	P6			P6 12 Volt	8	3	P5 12 Volt	Low Range LED			P5	Red/Blue	Red/Blue
N/C	N/C	E Rel			Electronic Relay	9	4	Relay Out				Relay	Blue/Red	Blue/Red
Red	Red				.+12 Volt In	10	5	.+12 Volt In					Red	Red
MTSX01/2	MTWX01/2				P3 - 8 Way Output								MTWX01/2	MTSX01/2
Black/Red	Black/Red	N6		EDS5 Shift Pres3	N6 Ground	5	1	N5 Ground	MV3 Shift Sol 3			N5	Black/Purple	Black/Purple
Black/Brown	Black/Brown	N4		EDS3 Shift Pres2	N4 Ground	6	2	N3 Ground	EDS2 Shift Pres1			N3	Black/Orange	Black/Orange
Black/Yellow	Black/Yellow	N2		Lockup Pres EDS4	N2 Ground	7	3	N1 Ground	EDS1 Line Pres			N1	Black/White	Black/White
Green	Green	RPM			RPM Out	8	4	GPN1 Ground	GP1			GP1	Blue/Orange	Blue/Orange
MTSX01/2	MTWX01/2				P4 - 6 Way In/Output								MTWX01/2	MTSX01/2
Blue	Blue			4 Map Switch	Fuel Sensor	4	1	GPN2 Ground	Retard			GP2	Blue/White	Blue/White
Red	Red	N7	Up Switch	Overdrive	POT	5	2	Altitude	Second Start	Down Switch		N8	Blue	Blue
Red	Red				.+5 Volt Out	6	3	GND					Black	Black
MTSX01/2	MTWX01/2				P5 - 4 Way Output								MTWX01/2	MTSX01/2
Blue	Blue			MV2 Shift Sol 2	N8 Ground	3	1	N7 Ground	MV1 Shift Sol 1				White	White
Green	Green	P8			P8 12 Volt	4	2	P7 12 Volt	GP2			P7	Yellow	Yellow
USB	USB				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 Advance 29 ZF 5HP24 Ver 3.3B
Firmware Class Advance
2 GP output available
Only 2K oil temperature sensor selection is allowed. Input is calibrated for a 1K TFT sensor.
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	1,2,3,4,5		
4	1,2,3,4		
3	1,2,3		
2	1,2		