

ZF 5HP19 5 Speed

Mercury2 Input / Outputs

Wire Colors		Firmware			Firmware			Wire Colors			
		Priority2	Priority1		Priority1	Priority2					
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	
				P2 - 10 Way Output					MTWX01/2	MTSX01/2	
Red/Yellow	Red/Yellow		Tiptronic LED	P2 12 Volt	6	1	P1 12 Volt	Lockup LED	Red/White	Red/White	
Red/Green	Red/Green		Overdrive LED	P4 12 Volt	7	2	P3 12 Volt	2nd Start LED	Red/Orange	Red/Orange	
Red/Black	Red/Black			P6 12 Volt	8	3	P5 12 Volt	Low Range LED	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		Retard	N6 Ground	5	1	N5 Ground	MV3 Rev Lockout	Black/Purple	Black/Purple	
Black/Brown	Black/Brown		EDS3 Shift Pres2	N4 Ground	6	2	N3 Ground	EDS2 Shift Pres1	Black/Orange	Black/Orange	
Black/Yellow	Black/Yellow		Lockup Pres EDS4	N2 Ground	7	3	N1 Ground	EDS1 Line Pres	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		MV2 Shift Sol 2	N8 Ground	3	1	N7 Ground	MV1 Shift Sol 1	White	White	
Green	Green		Reverse Lights	P8 12 Volt	4	2	P7 12 Volt	Starter Lockout	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 Advance 29 ZF 5HP19 Ver 3.3D

Firmware Class Advance

2 GP output available

Only 2K 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
P	1
R	1
N	1
D	1,2,3,4,5
4	1,2,3,4
3	1,2,3
2	1,2

Engine Break