

ZF 4HP24 - 5Sol

Orion Input / Outputs

Wire Colors		Software		Orion Input / Outputs				Software		Wire Colors	
		Priority2	Priority1					Priority1	Priority2		
OT02-P1	OT01-P1			P1-12 Way Input						OT01-P1	OT02-P1
Green	Green		Oil 2k	Water Temp	7	1	Air Temp	Low Range Input		Yellow	Yellow
Blue	Blue		Shifter In	Lambda	8	2	TPS	TPS		Yellow	Blue
Red	N/C			.+5 Volt Out	9	3	MAP	4 Map Select		Red	Red
Orange	Orange			.+12 Volt Ign	10	4	GND			White	White
Blue	Blue		Speed	TDC Sensor	11	5	TDC Power			Red	Red
Blue	Green		RPM	Crank Sensor	12	6	Crank Power			N/C	Red
				P2-10 Way Output						OT03 - P2	E31
Black/Red	Black/Red		MV1 Shift 1	Coil1	6	1	Coil2	MV2 Shift2		Black/Purple	Black/Purple
Black/Brown	Black/Brown		MV3 Lockup Pres	Coil3	7	2	Coil4	MV5 Line Pres		Black/Orange	Black/Orange
Black/Yellow	Black/Yellow		Retard	N2	8	3	N1	MV4 Reverse Locout		Black/White	Black/White
Green	Green	Lockup Led	Speed Out	N4	9	4	N3	Relay Out		Blue	Blue/Black
Blue/White	Blue/White	Starter Lockout	GP2	N6	10	5	N5	GP1	Reverse Light	Blue/Orange	Blue/Orange
				P3-8 Way Output						E36	
	Red/White		N/C	P1	5	1	P2	N/C		Red/Yellow	
	Red/Orange		N/C	P3	6	2	P4	N/C		Red/Green	
	Red			.+12 Volt In	7	3	.+12 Volt In			Red	
	White		N/C	Coil5	8	4	Coil6	N/C		Blue	
				P4-4 Way Serial							
			N/C	SDA	3	1	SCL	N/C			
			N/C	.+5 Volt Out	4	2	GND	N/C			
OT20	USB			6 Way USB						USB	OT20
Green	N/C	Up Switch	Overdrive	Tuning Pot	4	1	Dual Map Sw	Second Start	Down Switch	N/C	Yellow
Yellow	Yellow			Receive	5	2	Transmit			Green	Green
Red	Red			.+5 Volt Out	6	3	GND			Blue	Blue

Orion TCU Combo 26 ZF 4HP24 5Sol Ver 3.3C

Firmware Class - Advance Intermediate Standard

Polarity in Transmission is Common Positive

2 GP outputs available. Depending on features used.

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	Gears 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