

Wire Colors		Software		GM 4L30E				Software		Wire Colors	
		Priority2	Priority1	Orion Input / Outputs				Priority1	Priority2		
OT02-P1	OT01-P1			P1-12 Way Input						OT01-P1	OT02-P1
Green	Green		Low Range Input	Water Temp	7	1	Air Temp	Oil Temp 25K/20		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
E31	OT03 - P2			P2-10 Way Output						OT03 - P2	E31
Black/Red	Black/Red	A	23 Shift Solenoid	Coil1	6	1	Coil2	12 34 Shift Solenoid	C	Black/Purple	Black/Purple
Black/Brown	Black/Brown	B	Band Apply Solenoid	Coil3	7	2	Coil4	Line Pressure	4	Black/Orange	Black/Orange
Black/Yellow	Black/Yellow		Retard	N2	8	3	N1	Lockup Pressure	3	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
	E36			P3-8 Way Output						E36	
	Red/White			P1	5	1	P2			Red/Yellow	
	Red/Orange			P3	6	2	P4			Red/Green	
	Red			+.12 Volt In	7	3	+.12 Volt In			Red	
	White			Coil5	8	4	Coil6			Blue	
				P4-4 Way Serial							
				SDA	3	1	SCL				
				-.5 Volt Out	4	2	GND				
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 10 GM 4L30E Ver 3.3C

Firmware Class - Advance Intermediate

Polarity in Transmission is Common Positive

2 GP outputs available. Depending on features used.

Only 10K oil temperature sensor selection is allowed. The sensor is 25K @20°C.

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	2,3,4
3	1,2,3	2,3
2	1,2	1,2
1	1	1