Vehicle Name: Bad Wolf Turbo Mk2
Product: Haltech Nexus R3 VCU

Assigned Resources:

Connections			Assigned Functions
Analogue Voltage Inputs on Nexus R3 VCU:			
	[W], C10	AVI1	Brake Pedal Switch 1 Input, for Brake Pedal Switch
	[W/Y], C11	AVI2	Clutch Switch Input, for Clutch Switch
	[W/GY], C12	AVI3	Coolant Temperature Input, for Coolant Temperature Sensor
	[W/V], C13	AVI4	Oil Pressure Input, for Oil Pressure Sensor
	[W/G], C14	AVI5	Throttle 1 Sensor A, for Drive By Wire
	[W/O], C15	AVI6	Throttle 1 Sensor B, for Drive By Wire
	[W/B], C16	AVI7	Intake Air Temperature Input, for Intake Air Temperature Sensor
	[W/BR], C17	AVI8	Pedal Sensor A, for Drive By Wire
	[W/R], C18	AVI9	Pedal Sensor B, for Drive By Wire
	[LG], C27	AVI10	Oil Temperature Input, for Oil Temperature Sensor
	[LG/B], C28	AVI11	Fuel Pressure Input, for Fuel Pressure Sensor
Digital Pulsed Output	ts on Nexus R3 VCU:		
	[V/B], A9	DPO1	Output 1, for Generic Output 4 (Speedometer)
	[V/BR], A12	DPO2	Tacho Output, for Tachometer
	[V/R], A14	DPO3	Boost Control Solenoid, for Boost Control
	[V/O], A15	DPO4	Output 1, for Generic Output 9 (Boost Gauge)
	[V/Y], A16	DPO5	Check Engine Light Output, for Check Engine Light
Sync Pulsed Inputs on Nexus R3 VCU:			
	[GY/BR], C5	SPI1	Vehicle Speed Input, for Vehicle Speed Drive Train Sensor
	[GY/R], C6	SPI2	Front Brake Pressure Input, for Brake Pressure Sensor Front

Knock Inputs on Nexus R3 VCU:					
	[B/L], C23	KNOCK1	Knock Sensor 1		
Injection Outputs on I	Nexus R3 VCU:				
	[L], A1	INJ1	Injector Output 1		
	[L/B], A2	INJ2	Injector Output 2		
Ignition Outputs on N	Ignition Outputs on Nexus R3 VCU:				
	[Y/B], A27	IGN1	Ignition Output for Cylinders 1 and 4		
	[Y/R], A28	IGN2	Ignition Output for Cylinders 3 and 2		
Half Bridge Outputs o	Half Bridge Outputs on Nexus R3 VCU:				
	[BR/B], A19	HBO1	Throttle 1 Motor A, for Drive By Wire		
	[BR/R], A20	HBO2	Throttle 1 Motor B, for Drive By Wire		
	[BR/G], A21	НВОЗ	Output 1, for Generic Output 8 (Oil Pressure Gauge)		
	[BR/P], A22	HBO4	Output 1, for Generic Output 7 (Coolant Temp Gauge)		
	[P/R], A18	HBO5	CAN Power Output 1, for CAN System		
	[P/BR], A25	HBO6	Output 1, for Generic Output 10 (Speed & USB)		
25A High Current Out	puts on Nexus R3 VCU:				
	[R/L], E1	25A-HCO1	Injector Power Output 1, for Injection System		
	[R/Y], E2	25A-HCO2	Ignition Coil Power Output 1, for Ignition System		
	[R/O], E3	25A-HCO3	Fuel Pump Relay Output, for Primary Fuel Pump		
	[R/G], E4	25A-HCO4	Thermofan 1 Output, for Thermofan 1		
CAN Ports on Nexus R3 VCU:					
	[W], A23, CAN 1 H [L], A24, CAN 1 L	CAN1	Haltech CAN Bus Port 1, for CAN System		
	[W], C21, CAN 2 H [L], C22, CAN 2 L	CAN2	Haltech CAN Bus Port 2, for CAN System		

_	Trigger on Nexus R3 VCU:				
_		[GY], C1	Trigger (+ve)	Trigger System (+)	
_	Pressure Inputs on Ne	exus R3 VCU:			
			OBPS 1	Manifold Pressure Input, for Manifold Pressure Sensor	
_	Wideband Inputs on I	Nexus R3 VCU:			
		[GY], C29, WBI 1 HEATER+			
		[Y], C30, WBI 1 INPUT			
		[R], C31, WBI 1 PUMP		Widehard O2 1 Input for Widehard O2 1 Cancer	
		[B], C32, WBI 1 NERNST	Internal Wideband	Wideband O2 1 Input, for Wideband O2 1 Sensor	
		[W], C33, WBI 1 HEATER-			
		[G], C34, WBI 1 CAL			
System References on Nexus R3 VCU:					
		[O], C25	+5V Sensor Supply	5V Sensors	
_		[B/W], C26	Sensor GND	Sensor ground	
_		[O/W], C9	+8V Sensor Supply	8V Sensors	
-	= 0		+12V ECU Power	Battery (+ve)	
-			Battery Ground	Battery (-ve)	
-		[B], A10, POWER GROUND			
		[B], A11, POWER GROUND	Power GND Out	Power Ground Out	
lire	rectly connect any other devices to the ignition switch				
		[P], A13	Ign SW Input	Ignition Switch	
_		[R/L], A26	lgn SW Power	Ignition Switch Power	
-	Other Connections or	n Drive By Wire:			
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Buttons on Keypad 2x4 A (Main Keypad) :		
	Keypad-2x4 A Button 1	Enable / Disable, for Cruise Control
	Keypad-2x4 A Button 2	Set / Coast / -, for Cruise Control
	Keypad-2x4 A Button 3	Resume / Accel / +, for Cruise Control
	Keypad-2x4 A Button 4	Hazard Lights Input, for Indicator Control
	Keypad-2x4 A Button 5	Datalog Switch Input, for Datalogging Switch
	Keypad-2x4 A Button 6	Thermofan 1 Override Input, for Thermofan 1
	Keypad-2x4 A Button 7	Input, for Rotary Trim Module 1 (Boost Trim)
	Keypad-2x4 A Button 8	Engine Bump Input 1, for Engine Bump
Channels:		
Channel	Override Switch (GenCond1 Out)	Override Switch, for Generic Output 1 (Secondary Circuits)
Channel	Kill Switch Input 1 (GenCond5 Out)	Kill Switch Input 1, for Kill Switch
Chammel	Cancel (GenCond6 Out)	Cancel, for Cruise Control

Analogue Voltage Inputs on PD16 Box A (Boot Power Distro) :						
	[W], A20	PD16A AVI1	Park Light Input, for Headlight Control			
	[W/Y], A21	PD16A AVI2	Head Light Input, for Headlight Control			
	[W/GY], A27	PD16A AVI3	Left Indicator Input, for Indicator Control			
	[W/V], A28	PD16A AVI4	Right Indicator Input, for Indicator Control			
Sync Pulsed Inputs or	Sync Pulsed Inputs on PD16 Box A (Boot Power Distro) :					
	[GY/BR], A14	PD16A SPI1	Override Switch, for Generic Output 5 (Heater)			
	[GY/R], A15	PD16A SPI2	Start Button Input, for Engine Starter Control Function			
	[GY/O], A16	PD16A SPI3	Override Switch, for Generic Output 2 (Wipers)			
	[GY/Y], A19	PD16A SPI4	Override Switch, for Generic Output 3 (Fog Lamps)			
Half Bridge Outputs o	on PD16 Box A (Boot Powe	r Distro) :				
	[BR/Y], A1	PD16A HBO1	Oil Pressure Light, for Oil Pressure Light			
	[BR/L], A2	PD16A HBO2	Battery Light Output, for Battery Voltage Light			
8A High Current Outp	8A High Current Outputs on PD16 Box A (Boot Power Distro) :					
	[P/R], A3	PD16A 8A-HCO1	Left Indicator Output, for Indicator Control			
	[P/BR], A4	PD16A 8A-HCO2	Output 2, for Generic Output 10 (Speed & USB)			
	[P/B], A5	PD16A 8A-HCO3	Output 1, for Generic Output 1 (Secondary Circuits)			
	[P/O], A6	PD16A 8A-HCO4	Output 1, for Generic Output 5 (Heater)			
	[P/Y], A7	PD16A 8A-HCO5	Output 2, for Generic Output 1 (Secondary Circuits)			
	[P/G], A8	PD16A 8A-HCO6	Alternator Control Output, for Alternator Control			
	[P/V], A9	PD16A 8A-HCO7	Starter Motor Relay Output, for Engine Starter Control Function			
	[P/L], A10	PD16A 8A-HCO8	Right Indicator Output, for Indicator Control			
	[P/GY], A17	PD16A 8A-HCO9	Brake Light Output, for Brake light Control			
	[P/W], A18	PD16A 8A-HCO10	Park Lights Output, for Headlight Control			

	25A High Current Outputs on PD16 Box A (Boot Power Distro) :					
		[R/L], E1	PD16A 25A-HCO1	Head Lights Output, for Headlight Control		
		[R/Y], E2	PD16A 25A-HCO2	Output 1, for Generic Output 2 (Wipers)		
		[R/O], E3	PD16A 25A-HCO3	Output 1, for Generic Output 3 (Fog Lamps)		
•		[R/G], E4	PD16A 25A-HCO4	Output 1, for Generic Output 6 (Stereo system)		
	System References on PD16 Box A (Boot Power Distro) :					
			PD16A +12V Power	Battery (+ve)		
•		[O], A12	PD16A Sensor 5V	Sensor 5V		
		[B/W], A11	PD16A Sensor GND	Sensor ground		
		[B], A31, POWER GROUND [B], A32, POWER GROUND [B], A33, POWER GROUND [B], A34, POWER GROUND	PD16A Power GND In	Power ground		
Do not directly connect any other devices to the ignition switch						
		[P], A13	PD16A Ign SW Input	Ignition Switch Input		
		[R/L], A26	PD16A Ign SW Power	Ignition Switch Power		
		[W], A23	PD16A CAN High	CAN High		
		[L], A24	PD16A CAN Low	CAN Low		
		[P], A25	PD16A CAN Power	CAN Power		
		[B], A22	PD16A CAN Ground	CAN Ground		