

GEN4 ECU & HARNESS I/O PIN OUT

BASE (-072)	LS1 (-074)	LS2/LS7 (-076)	UNIVERSAL CDP (-073)	MOD (-075)	COYOTE (-075)	HEMI (-086)	PRIMARY NTK WBO2-1	16 INJECTOR (-063/-064)	30-WAY PRIMARY HEADER 1 (A-K)
X	X	X	X	X	X	X			A1 - MAP SIGNAL
X			X	X	X				A2 - TPS2 SGNL / FORD IAC OUT
X	X	X	X	X	X	X			A3 - IPU CRANK (+)
X	X	X	X	X	X	X			B1 - TPS1 SIGNAL
X			X	X	X				B2 - 2-STEP / START LINE TIMING
X	X	X	X	X	X				B3 - IPU CRANK (-)
X	X	X	X	X	X	X			C1 - COOLANT TEMP SIGNAL
X			X	X	X				C2 - COIL 6
X	X	X	X	X	X				C3 - IPU CAM (+)
X	X	X	X	X	X	X			D1 - AIR TEMP SIGNAL
X	X	X	X	X	X	X			D2 - TACH OUT
X			X	X	X				D3 - IPU CAM (-)
X	X	X	X	X	X	X			E1 - MAP & TPS +5VR
X	X	X	X	X	X	X			E2 - MAP, TPS, COOLANT & AIR RTN
X	X	X	X	X	X	X			E3 - HED CAM SIGNAL
X	X	X	X	X	X	X		X	F1 - 8-TO-16 INJECTOR BIG DRIVE ENABLE
X	X	X	X	X	X	X	X		F2 - LSU4.9 WBO2-1_IP / NTK WBO2-1_IP
X	X	X	X	X	X	X	X		F3 - LSU4.9 WBO2-1_IA / NTK WBO2-1_VS-
X	X	X	X	X	X	X	X		G1 - LSU4.9 WBO2-1_H- / NTK WBO2-1_H-
X	X	X	X	X	X	X	X		G2 - LSU4.9 WBO2-1_UN
X	X	X	X	X	X	X	X		G3 - LSU4.9 WBO2-1_VM / NTK WBO2-1_VS+
X	X	X	X	X	X	X			H1 - HIGH SIDE FUEL PUMP ENABLE
X	X	X	X	X	X				H2 - COIL 7
X	X	X	X	X	X				H3 - COIL 2
X	X	X	X	X	X				J1 - COIL 3
X	X	X	X	X	X				J2 - HEI GND / LOW CURRENT COIL GND
X	X	X	X	X	X				J3 - HEI REFERENCE / HED CRANK SIGNAL
X			X	X	X				K1 - COIL 1
X									K2 - HEI BYPASS
X									K3 - HEI / TFI EST
22	23	23	27	25	19	16	4		SUB-TOTAL I/O QTY
GEN4 MWH & IWH KIT PART NUMBER									
BS4-006-001 (CHEVY EV3)									BS4-006-013 (B84AP53)
BS4-006-002 (CHEVY EV2)									BS4-006-014 (B84AP54)
BS4-006-003 (FORD EV1)									BS4-006-015 (B88AP53)
BS4-006-004 (FORD EV6)									BS4-006-016 (B88AP54)

GEN4 ECU & HARNESS I/O PIN OUT

30-WAY SECONDARY HEADER 2 (L-Y)	E85 (-082)	DAE (-077)	SR2.3 (-077 /-083)	4L60E / 4L80E (-078)	DAE2 (-079)	BOOST (-079 /-084)	6-STG NDS (-081)	SECONDARY LSU4.9 WBO2-2 (-089)	SECONDARY NTK WBO2-2 (-040)	DAE3 (-080)	DBW / KNOCK (-085)
L1 - PWM SOLENOID / PROGRESSIVE NDS		X					X				
L2 - SPARE PRESSURE / NDS BOTTLE PRESSURE		X					X				
L3 - STAGE_5 NDS							X				
M1 - STAGE_3 NDS							X				
M2 - SHIFT SOLENOID B / GPIO_1				X						X	
M3 - TRANS MODE A / DIGISET_1 / GPIO_2				X				X		X	
N1 - STAGE_4 NDS							X				
N2 - TCC PWM / GPIO_3				X						X	
N3 - FORCE MOTOR HIGH / GPIO_4				X						X	
P1 - STAGE_2 NDS							X				
P2 - SHIFT SOLENOID A / GPIO_5				X						X	
P3 - TRANS MODE B / DIGISET_2 / GPIO_6				X				X		X	
R1 - STAGE_6 NDS							X				
R2 - TURBO SHAFT SPEED_1 SIGNAL					X						
R3 - STAGE_1 NDS							X				
S1 - DRIVE SHAFT HED SIGNAL / TOSS (+)		X	X	X							
S2 - TRANS MODE C / DIGISET_3 / GPIO_7				X			X			X	
S3 - TURBO SHAFT SPEED_2 SIGNAL					X						
T1 - INPUT SHAFT HED SIGNAL / TISS (+)		X		X							
T2 - FUEL PRESSURE SIGNAL		X									
T3 - TRANS SENSOR RTN				X							
W1 - 3-STEP ENABLE			X								
W2 - FLEX FUEL SENSOR SIGNAL	X										
W3 - DAE SENSOR RTN	X		X								
X1 - TURBO BACK PRESSURE SIGNAL		X									
X2 - OIL PRESSURE SIGNAL		X									
X3 - OIL PAN VACUUM SIGNAL		X									
Y1 - TRANS TEMP SIGNAL (TOT)			X (W/GND)	X							
Y2 - ANALOG TRIGGER		X	X								
Y3 - DAE SENSOR +5VR	+12V SWITCH	X	X								
SUB-TOTAL I/O QTY	3	12	5	11	2		11			7	
GEN4 HARNESS & HARDWARE KIT PART NUMBER											
BS4-005-001 BS4-005-003 BS4-005-002 BS4-005-006 BS4-005-004 BS4-005-007 (HARNESS) BS4-005-008 (HARDWARE) BS4-005-005 BS3-005-010 BS3-005-012 BS4-005-009 TBD											

GEN4 ECU & HARNESS I/O PIN OUT

BASE (-072)	LS1 (-074)	LS2/LS7 (-076)	UNIVERSAL CDP (-073)	MOD (-075)	COYOTE (-075)	HEMI (-086)	NTK WBO2-1	16 INJECTOR (-063/-064)	30-WAY PRIMARY HEADER 1 (L-Y)	
X	X	X	X	X	X	X			L1 - COIL 4	
X	X	X	X	X	X	X			L2 - TIMER ENABLE	
X	X	X	X	X	X	X			L3 - +12V SWITCH	
X	X	X	X	X	X	X			M1 - ECU VBAT (+)	
X	X	X	X	X	X	X			M2 - COIL 5	
X	X	X	X	X	X	X			M3 - COIL 8	
X	X	X	X	X	X	X			N1 - CAN HIGH	
X	X	X	X	X	X	X			N2 - CAN LOW	
X	X	X	X	X	X	X			N3 - FAN2 ENABLE	
X	X	X	X	X	X	X			P1 - IAC A-LOW	
X	X	X	X	X	X	X			P2 - IAC A-HIGH	
X	X	X	X	X	X	X			P3 - ECU PWRGND1	
X	X	X	X	X	X	X			R1 - IAC B-LOW / FORD IAC	
X	X	X	X	X	X	X			R2 - IAC B-HIGH	
X	X	X	X	X	X	X			R3 - FAN1 ENABLE	
X	X	X	X	X	X	X			S1 - INJECTOR 8	
X	X	X	X	X	X	X			S2 - INJECTOR 4	
X	X	X	X	X	X	X			S3 - LOW SIDE FUEL PUMP ENABLE	
X	X	X	X	X	X	X			T1 - INJECTOR 7	
X	X	X	X	X	X	X			T2 - INJECTOR 3	
X	X	X	X	X	X	X			T3 - BOOST INCREMENT	
X	X	X	X	X	X	X			W1 - INJECTOR 6	
X	X	X	X	X	X	X			W2 - INJECTOR 2	
X	X	X	X	X	X	X			W3 - BOOST DECREMENT	
X	X	X	X	X	X	X			X1 - INJECTOR 5	
X	X	X	X	X	X	X			X2 - INJECTOR 1	
X			X						X3 - POINTS OUTPUT	
X	X	X	X	X	X	X			Y1 - ECU VBAT (+)	
X	X	X	X	X	X	X			Y2 - ECU VBAT (+)	
X	X	X	X	X	X	X			Y3 - ECU PWRGND2	
27	29	29	30	29	26	26			SUB-TOTAL I/O QTY	
GEN4 MWH & IWH KIT PART NUMBER										
BS4-006-001 (CHEVY EV3)										BS4-006-001 (COYOTE EV3)
BS4-006-002 (CHEVY EV2)										BS4-006-002 (COYOTE EV2)
BS4-006-003 (FORD EV1)										BS4-006-003 (COYOTE EV6)
BS4-006-004 (FORD EV6)										BS4-006-004 (COYOTE EV6)

GEN4 ECU & HARNESS I/O PIN OUT

30-WAY SECONDARY HEADER 2 (A-K)	E85 (-082)	DAE (-077)	SR2 (-077 /-083)	4L60E / 4L80E (-078)	DAE2 (-079)	BOOST (-079 /-084)	6-STG NDS (-081)	SECONDARY LSU4.9 WBO2-2 (-089)	SECONDARY NTK WBO2-2 (-040)	DAE3 (-080)	DBW / KNOCK (-085)
A1 - SPARE A/D 1 INPUT										X	
A2 - SPARE INJECTOR DRIVER										X	
A3 - A/C CLUTCH OVERRIDE					X						
B1 - A/C BUMP INPUT					X						
B2 - WAIST GATE PRESSURE SIGNAL (BOOST)					X	X					
B3 - TRANS LINE PRESSURE SIGNAL					X						
C1 - RIGHT FRONT SHOCK SIGNAL					X						
C2 - WHEELIE CONTROL SIGNAL										X	
C3 - SHIFT LIGHT					X						
D1 - LEFT FRONT SHOCK SIGNAL					X						
D2 - DAE2 SENSOR RTN					X	X					
D3 - DBW PEDAL_1 SIGNAL											X
E1 - DBW PEDAL_2 SIGNAL											X
E2 - DIGISET_6 / SPARE A/D_2 INPUT							X			X	
E3 - DAE2 +5VR					X	X					
F1 - DIGISET_5 / SPARE A/D_3 INPUT							X			X	
F2 - LSU4.9 WBO2-2_IP / NTK WBO2-2_IP								X	X		
F3 - LSU4.9 WBO2-2_IA / NTK WBO2-2_VS-								X	X		
G1 - LSU4.9 WBO2-2_H- / NTK WBO2-2_H-								X	X		
G2 - LSU4.9 WBO2-2_UN								X			
G3 - LSU4.9 WBO2-2_VM / NTK WBO2-2_VS+								X	X		
H1 - LEFT REAR SHOCK SIGNAL					X						
H2 - DIGISET_4 / SPARE A/D_4 INPUT							X			X	
H3 - RIGHT REAR SHOCK SIGNAL					X						
J1 - DAE3 SENSOR +5VR							X			X	X
J2 - KNOCK RIGHT BANK (+)											X
J3 - KNOCK RIGHT BANK (-)											X
K1 - KNOCK LEFT BANK (+)											X
K2 - DAE3 SENSOR RTN							X			X	X
K3 - KNOCK LEFT BANK (-)											X
SUB-TOTAL I/O QTY						11	3	5	5	4	8
GEN4 HARNESS & HARDWARE KIT PART NUMBER											
BS4-005-001 BS4-005-003 BS4-005-002 BS4-005-006 BS4-005-004 BS4-005-007 (HARNESS) BS4-005-008 (HARDWARE) BS4-005-005 BS3-005-010 BS3-005-012 BS4-005-009 TBD											

