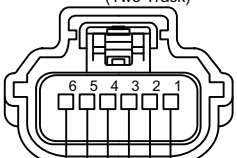


INPUT

APPS

Accelerator Pedal
Position Sensor

(Two Track)

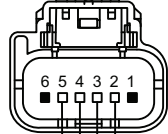


- * ETCREF (C) C-45
- * APP 1 C-28
- * ETCRTN (C) C-44
- * ETCRTN (B) C-60
- * APP 2 C-29
- * ETCREF (B) C-61

MAFI/AT

Mass Air Flow
Intake Ambient
Temperature Sensor
(Supplier - Hitachi [Digital] MAF)

(Key B)

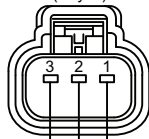


- IAT C-47
- VPWR #5
- MAFRTN C-2
- MAF (Freq.) C-40

FTPT

Fuel Tank
Pressure Transducer

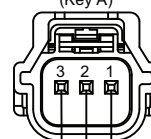
(Key D)



- FTPT C-65
- SIGRTN (C) C-56
- FTPTREF C-66

ACPT
AC Pressure
Transducer

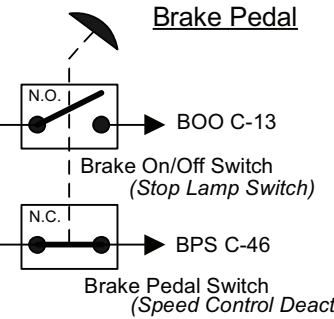
(Key A)



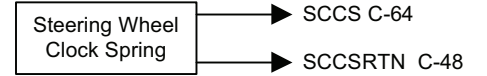
- SIGRTN (C) C-56
- ACPT C-31
- VREF (C) C-52

Brake Pedal

(Always Hot)
Fused to VBAT



Speed Control



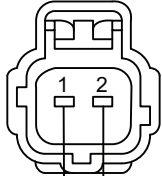
*Note: SCCSRTN to be shared with NO other circuits
Must comply with PL-0044 SDS*

OUTPUT

CANVNT

Carbon Canister
Vent Valve

(Key C)



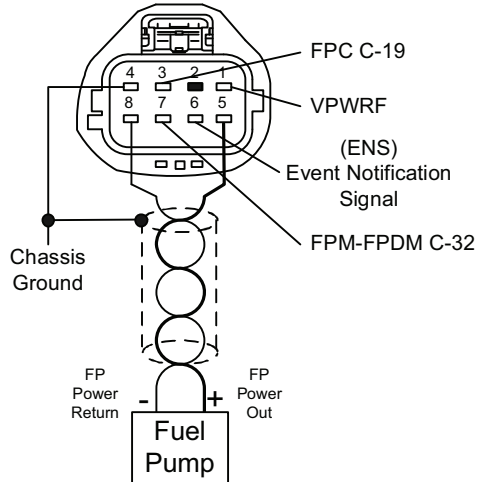
- CANVNT C-20
- KAPWR C-62

Engine Cooling Fan Control

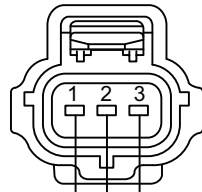
- FC-1 C-34 → One Fan Relay Coil
 - FC-2 C-18 → Two Fan Relay Coils in Parallel
- Note: Fan Relay Coil High Side is tied to VPWR #3*

EFPR

Electronic Fuel Pump Relay
(2 Speed MRFS w/Fuel Cut Off)



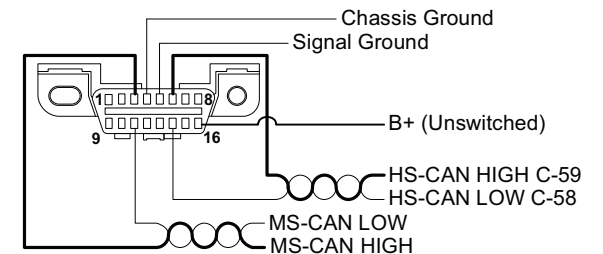
ALTERNATOR
"Smart Charge"



- Battery Sense (ASENSE) VBAT Unswitched)
- Regulator Control (ALTCOM) GENRC C-53
- Load Indicator (ALTMON) GENLI C-14

For Development ONLY!
"Signals ONLY available through Breakout Bob"
Clean Tachometer Output
CTO C-10

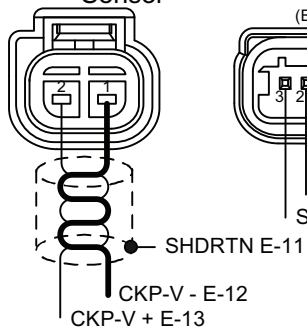
Diagnostic / Data Link Connector



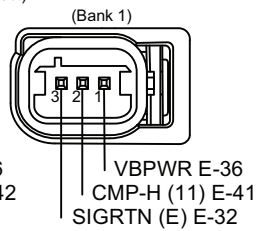
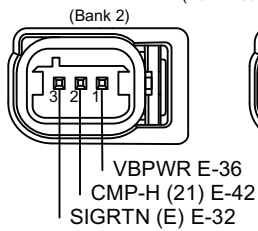
OTHER

INPUT

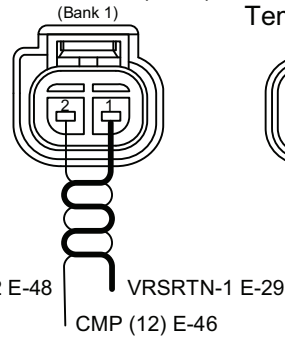
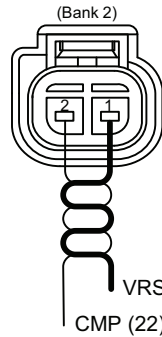
CKP
Crankshaft Position Sensor



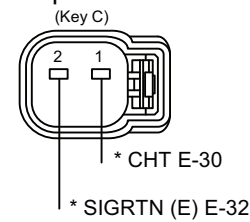
CMP Intake
Cam Position Sensor (Hall Effect)



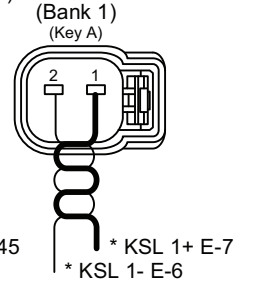
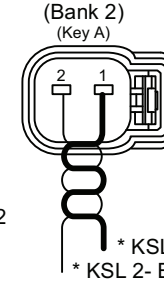
CMP Exhaust
Cam Shaft Position Sensor (VRS)



CHT
Cylinder Head Temperature Sensor (Key C)

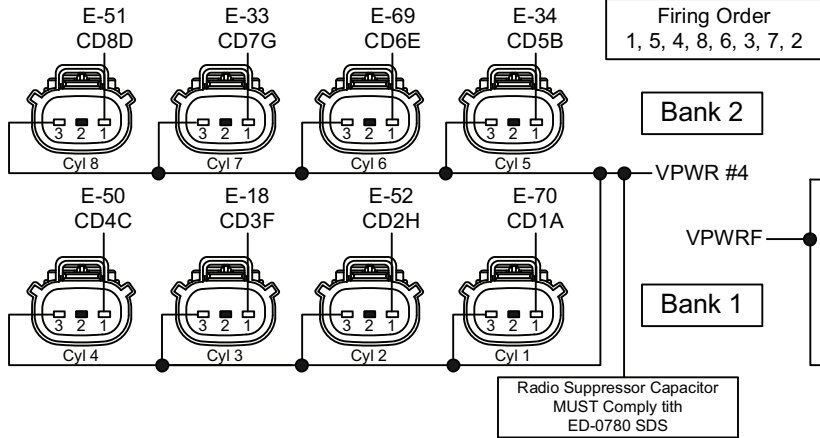


KS
Knock Sensor (Linear)

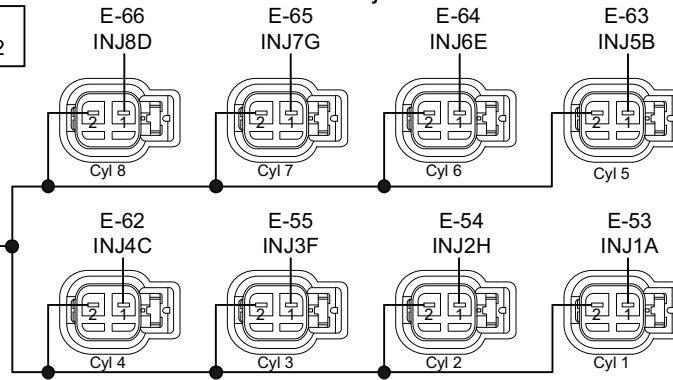


OUTPUT

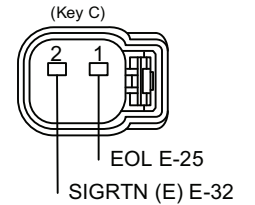
PCOP
Pencil Coil on Plug



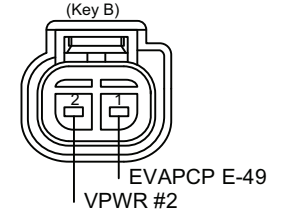
INJ
Fuel Injectors



EOL
Engine Oil Level Switch (Key C)

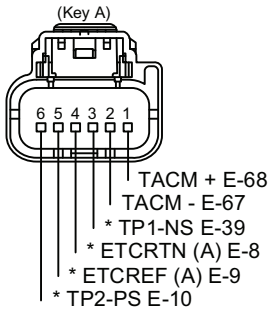


CPS
Canister Purge Solenoid (Key B)

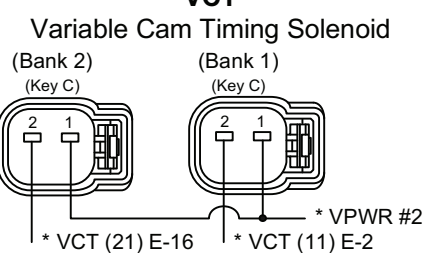


OTHER

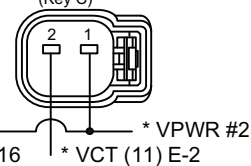
ETB
Electronic Throttle Body (Key A)



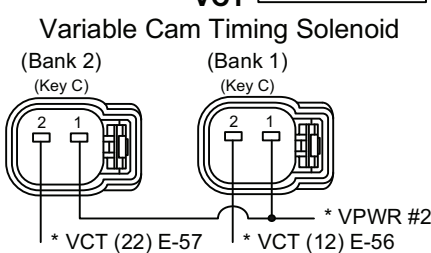
VCT Intake



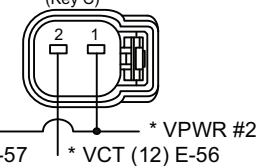
(Bank 1) (Key C)



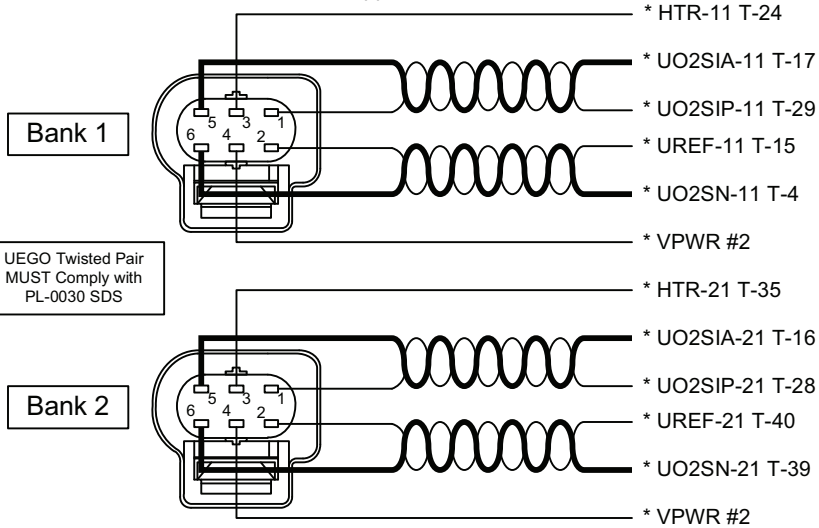
VCT Exhaust



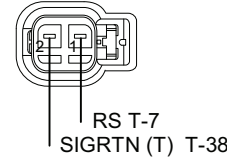
(Bank 1) (Key C)



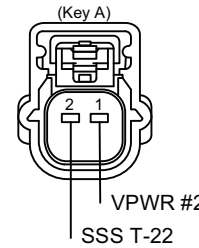
UEGO Upstream
 Universal Exhaust Gas Oxygen Sensor
 Supplier - Bosch



RS
 Reverse Switch

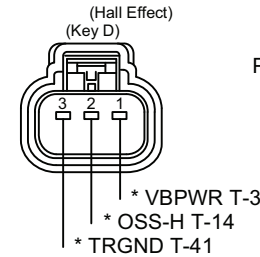


SSS
 Skip Shift Solenoid
 (Key A)

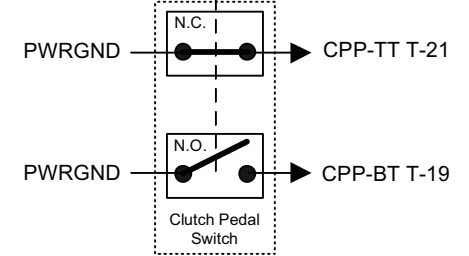


MT82 Transmission (MTX)

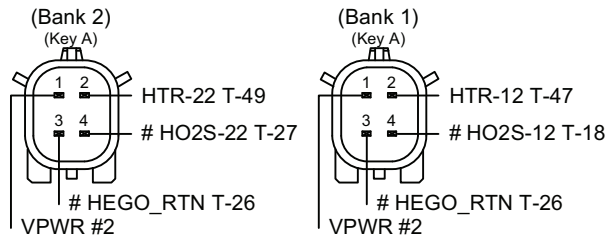
OSS
 Output Shaft Speed Sensor
 (Hall Effect)
 (Key D)



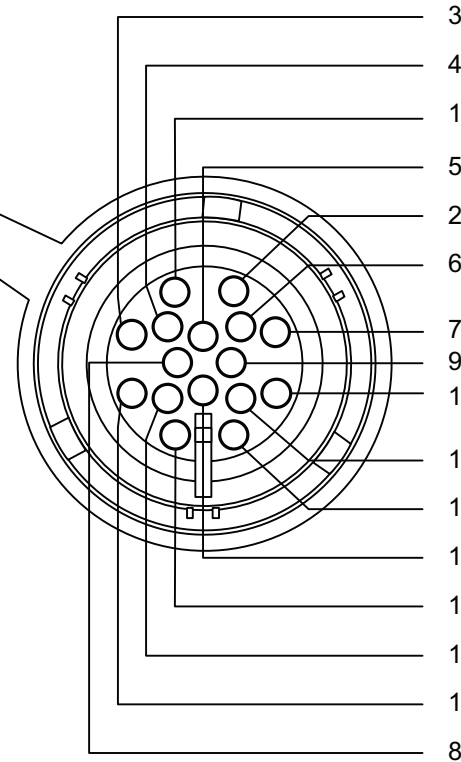
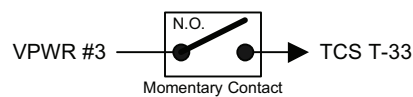
Clutch Pedal
 (MTX ONLY)



CMS-(XY) Downstream
 Catalyst Monitor Sensor



TCS
 Transmission Control Switch
 (Overdrive Cancel Switch)



6R80E
 (PCM Integrated Controls)

1	Turbine Shaft Speed	TSS T-1
2	-	-
3	Pressure Control 6	PC (1-7)-6 T-46
4	Range Sensor	TR-P T-12
5	Signal Return	SIGRTN (T) T-38
6	Fluid Temperature	TFT T-20
7	Solenoid Power	TSPC T-50
8	Shift Solenoid 1	SS (1-4)-1 T-11
9	Pressure Control 1	PC (1-7)-1 T-43
10	Pressure Control 4	PC (1-7)-4 T-10
11	Sensor Return	TRGND T-41
12	Buffered Power	VBPWR (T) T-3
13	Pressure Control 3	PC (1-7)-3 T-45
14	Pressure Control 2	PC (1-7)-2 T-44
15	Output Shaft Speed	OSS T-14
16	Pressure Control 5	PC (1-7)-5 T-34

Silver (Ag) Plated Terminals

COWL		5.0L-4V TIVCT / 6R80 (ATX)	
		5.0L-4V TIVCT / MT82 (MTX)	

C1	VBPWR	X	X
C2	MAFRTN	X	X
C7	SMC	X	X
C10	CTO	X	X
C12	ACCR	X	X
C13	BOO-1	X	X
C14	GENLI	X	X
C16	SMR	X	X
C18	FC (1-3)-2	X	X
C19	FPC	X	X
C20	CANVNT	X	X
C21	INJPWRM	X	X
C28	APP(1-2)-1	X	X
C29	APP(1-2)-2	X	X
C31	ACPT	X	X
C32	FPM-FPDM	X	X
C34	FC (1-3)-1	X	X
C37	SMCS	X	X
C38	PCMRC	X	X
C40	MAF	X	X
C42	ISP-R	X	X
C44	ETCRTN-C	X	X
C45	ETCREF-C	X	X
C46	BPS-BOO_2	X	X
C47	IAT-1	X	X
C48	SCCSRTN	X	X
C50	CSEGND	X	X
C52	VREF-C	X	X
C53	GENRC	X	X
C56	SIGRTN-C	X	X
C57	ACCS		X
C58	CAN (+ -)-	X	X
C59	CAN (+ -)+	X	X
C60	ETCRTN-B	X	X
C61	ETCREF-B	X	X
C62	KAPWR	X	X
C63	RLC	X	X
C64	SCCS	X	X
C65	FTPT	X	X
C66	FTPTREF	X	X
C67	VPWR	X	X
C68	VPWR	X	X
C69	PWRGND	X	X
C70	PWRGND	X	X

ENGINE		5.0L-4V TIVCT / 6R80 (ATX)	
		5.0L-4V TIVCT / MT82 (MTX)	

E2	VCT (XY)-11	X	X
E4	PCVHC	X	X
E6	KSL-1-	X	X
E7	KSL-1+	X	X
E8	ETCRTN-A	X	X
E9	ETCREF-A	X	X
E10	TP2-PS	X	X
E11	SHDRTN	X	X
E12	CKP-V-	X	X
E13	CKP-V+	X	X
E16	VCT (XY)-21	X	X
E18	COP (A-H)-3F	X	X
E20	VREF-E	X	X
E24	EOP	X	X
E25	EOL	X	X
E29	VRSRTN-12-		X
E29	VRSRTN-CMP12-	X	
E30	CHT	X	X
E32	SIGRTN-E	X	X
E33	COP (A-H)-7G	X	X
E34	COP (A-H)-5B	X	X
E36	VBPWR	X	X
E39	TP1-NS	X	X
E41	CMP-H-11	X	X
E42	CMP-H-21	X	X
E44	KSL-2-	X	X
E45	KSL-2+	X	X
E46	CMP(XY)-12+	X	X
E47	CMP(XY)-22+	X	X
E48	VRSRTN-22-		X
E48	VRSRTN-CMP22-	X	
E49	EVAPCP	X	X
E50	COP (A-H)-4C	X	X
E51	COP (A-H)-8D	X	X
E52	COP (A-H)-2H	X	X
E53	INJ (1-10)-1A	X	X
E54	INJ (1-10)-2H	X	X
E55	INJ (1-10)-3F	X	X
E56	VCT (XY)-12	X	X
E57	VCT (XY)-22	X	X
E62	INJ (1-10)-4C	X	X
E63	INJ (1-10)-5B	X	X
E64	INJ (1-10)-6E	X	X
E65	INJ (1-10)-7G	X	X
E66	INJ (1-10)-8D	X	X
E67	TACM (+-)-	X	X
E68	TACM (+-)+	X	X
E69	COP (A-H)-6E	X	X
E70	COP (A-H)-1A	X	X

TRANS		5.0L-4V TIVCT / 6R80 (ATX)	
		5.0L-4V TIVCT / MT82 (MTX)	

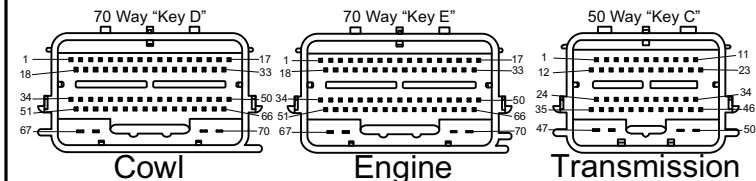
T1	TSS-Hall	X	
T3	VBPWR	X	X
T4	UO2SN-11	X	X
T7	RS		X
T10	PC (1-7)-4	X	
T11	RLSC		X
T11	SS (1-4)-1	X	
T12	TR -P	X	
T14	OSS-Hall	X	X
T15	UREF-11	X	X
T16	UO2SIA-21	X	X
T17	UO2SIA-11	X	X
T18	HO2S(XY)-12	X	X
T19	CPP-BT		X
T20	TFT	X	
T21	CPP-TT		X
T22	SSS		X
T24	HTR-11	X	X
T26	HEGO_RTN	X	X
T27	HO2S(XY)-22	X	X
T28	UO2SIP-21	X	X
T29	UO2SIP-11	X	X
T31	VREF-T	X	X
T33	TCS	X	
T34	PC (1-7)-5	X	
T35	HTR-21	X	X
T38	SIGRTN-T	X	X
T39	UO2SN-21	X	X
T40	UREF-21	X	X
T41	TRGND	X	X
T43	PC (1-7)-1	X	
T44	PC (1-7)-2	X	
T45	PC (1-7)-3	X	
T46	PC (1-7)-6	X	
T47	HTR-12	X	X
T49	HTR-22	X	X
T50	TSPC-1	X	

NOTE: The J1 composite pinout shown is for Reference only, and may include signal names that are not used in this design transmittal.

PCM Family CBP-C "190 Pin"

Small terminals are # SILVER plated, Large terminals are TIN plated.
Small and Large terminals are numbered consecutively.

PCM - HEADER VIEW



PCM - MATING CONNECTOR'S

