

K44 48-PIN ECU CONNECTOR PINOUT**GREY CONNECTOR**

C1 BOOST HC4	C2 FAN LC2	C3 STEP-B2	C4 STEP-B1	C5 STEP-A1	C6 STEP-A2	C7 FP LC1	C8 GND
B1 IGN1	B2 IGN2	B3 IGN3	B4 IGN4	B5 IDL2 HC1	B6 IDL1 HC3	B7 VVT1 HC2	B8 VVT2 HC5
A1 INJ1	A2 INJ2	A3 INJ3	A4 INJ4	A5 INJ5	A6 INJ6	A7 INJ7	A8 INJ8

BLACK CONNECTOR

C1 GND SENSOR	C2 AN IN1	C3 AN IN2	C4 OXY	C5 CTS	C6 IAT	C7 TPS	C8 MAP
B1 TAC	B2 CNK+ TRIG1	B3 CNK- TRIG1	B4 CAM+ TRIG2	B5 CAM- TRIG2	B6 DIG IN1	B7 LAUNCH	B8 FLEX
A1 +12V POWER	A2 GND POWER	A3 +5V OUT	A4 O/P PIN43	A5 DIG IN2	A6 RXD SERIAL3	A7 TXD SERIAL3	A8 GND DIGITAL

NOTE: VIEW LOOKING INTO ECU BOX CONNECTORS. (PIN NUMBERS ARE MOLDED INTO REAR OF LOOM CONNECTOR)

A1	OUTPUT	INJECTOR 1
A2	OUTPUT	INJECTOR 2
A3	OUTPUT	INJECTOR 3
A4	OUTPUT	INJECTOR 4
A5	OUTPUT	INJECTOR 5
A6	OUTPUT	INJECTOR 6
A7	OUTPUT	INJECTOR 7
A8	OUTPUT	INJECTOR 8
B1	OUTPUT	IGNITION 1
B2	OUTPUT	IGNITION 2
B3	OUTPUT	IGNITION 3
B4	OUTPUT	IGNITION 4
B5	OUTPUT	IDL2 when configured for 3-wire idle valve
B6	OUTPUT	IDL1 SOLENOID gnd active drive
B7	OUTPUT	VVT1 SOLENOID gnd active drive
B8	OUTPUT	VVT2 when configured for dual VVT
C1	OUTPUT	BOOST SOLENOID gnd active drive
C2	OUTPUT	FAN RELAY gnd active drive
C3	OUTPUT	IDLE STEPPER B2 OUTPUT
C4	OUTPUT	IDLE STEPPER B1 OUTPUT
C5	OUTPUT	IDLE STEPPER A1 OUTPUT
C6	OUTPUT	IDLE STEPPER A2 OUTPUT
C7	OUTPUT	FUEL PUMP Gnd active Relay Drive
C8	POWER GROUND	(Ground at engine block with its own 1mm wire)

A1	POWER	+12V POWER INPUT From ignition relay
A2	POWER GROUND	(ground at engine block with its own 1mm wire)
A3	POWER	+5V SENSOR POWER (MAXCURRENT 100mA)
A4	OUTPUT	SPARE OUTPUT DEFAULT SET TO MCU PIN 43
A5	INPUT	DIGITAL INPUT 2
A6	COMMS	SERIAL3 DATA RXD
A7	COMMS	SERIAL3 DATA TXD
A8	DIGITAL I/P GROUND	GROUND FOR DIGITAL INPUTS AND SERIAL DATA
B1	OUTPUT	TACH OUTPUT Pulled up to +12v
B2	TRIGGER	CRANK SENSOR +ve
B3	TRIGGER	CRANK SENSOR -ve (only for VR, for Hall use pin A8)
B4	TRIGGER	CAM SENSOR +ve
B5	TRIGGER	CAM SENSOR -ve (only for VR, for Hall use pin A8)
B6	INPUT	DIGITAL INPUT 1
B7	INPUT	CLUTCH SWITCH INPUT
B8	INPUT	FLEX FUEL SENSOR INPUT
C1	SENSOR GND	
C2	INPUT	ANALOG INPUT 1
C3	INPUT	ANALOG INPUT 2
C4	INPUT	OXY SENSOR INPUT 0-5V
C5	INPUT	COOLANT TEMPERATURE SENSOR
C6	INPUT	INTAKE AIR TEMPERATURE SENSOR
C7	INPUT	THROTTLE POSITION SENSOR
C8	INPUT	EXTERNAL MAP SENSOR INPUT (internal Map switch set to EXT.)