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## Electronic Engine Variable RPM ECM Guide

### **Caterpillar Engine**

#### **ECM Model: Adam I (40 Pin Connector)**

Pin# 2 - Insert wire and proper pin into Pin# 31 at J1/P1 connector at the engine ECM.

Pin# 3 - insert wire and proper pin into Pin# 8 at J1/P1 connector at the engine ECM.

Pin# 6 - connect to chassis ground.

Pin# 7 - Insert wire and proper pin into Pin# 32 at the J1/P1 connector at the engine ECM.

Pin# 8 - Not Used.

Pin#10 - connect to chassis ground.

**Note:** The J1/P1 connector is found on the driver's side of the engine on the ECM, the bottom connector is J1/P1.

### **Caterpillar Engine**

#### **ECM Model: Adam II (70 Pin Connector)**

Pin# 2 - insert wire and proper pin into Pin# 60 at J1/P2 connector at the engine ECM.

Pin# 3 - insert wire and proper pin into Pin# 56 at J1/P1 connector at the engine ECM.

Pin# 6 - connect to chassis ground.

Pin# 7 - insert wire and proper pin into Pin#58 at J1/P1 connector at the engine ECM.

Pin# 8 - Not Used.

Pin#10 - connect to chassis ground.

**Note:** The J1/P1 connector is found on the driver's side of the engine on the ECM, the rear connector is J1/P1.

### **Cummins Engine (ISB,ISC,ISL)**

#### **ECM Model: Celect Plus**

Pin# 2 - tee into the decrease wire at the cruise switch which is connected to pin# 13 at ECM.

Pin# 3 - tee into the on/off wire at the cruise switch which is connected to pin# 14 at ECM.

Pin# 6 - connect to chassis ground.

Pin# 7 - tee into the increase wire at the cruise switch which is connected to pin# 7 at ECM

Pin# 8 - Not Used.

Pin#10 - connect to chassis ground.

**Note:** The OEM connector is found on the driver's side of the engine on the ECM. The front connector is the OEM connector.

### **Cummins Engine (ISM, Pre 2003 ISX)**

#### **ECM Model: Celect Plus**

Pin# 2 - tee into the decrease wire at the cruise switch which is connected to pin# 24 at ECM

Pin# 3 - tee into the on/off wire at the cruise switch which is connected to pin# 23 at ECM.

Pin# 6 - connect to chassis ground.

Pin# 7 - tee into the increase wire at the cruise switch which is connected to pin# 7 at ECM

Pin# 8 - Not Used.

Pin#10 - connect to chassis ground.

**Note:** The OEM connector is found on the driver's side of the engine on the ECM. The front connector is the OEM connector.

**Cummins Engine (M11,N14)**

**ECM Model: Celect Plus**

Pin# 2 - tee into the decrease wire at the cruise switch which is connected to pin# 12 at ECM

Pin# 3 - tee into the on/off wire at the cruise switch which is connected to pin# 02 at ECM.

Pin# 6 - connect to chassis ground.

Pin# 7 - tee into the increase wire at the cruise switch which is connected to pin# 22 at ECM

Pin# 8 - Not Used.

Pin#10 - connect to chassis ground.

**Cummins Engine (ISX 2003)**

**ECM Model: Celect Plus**

Pin# 2 - tee into the decrease wire at the cruise switch which is connected to pin# at ECM

Pin# 3 - tee into the on/off wire at the cruise switch which is connected to pin# at ECM.

Pin# 6 - connect to chassis ground

Pin# 7 - tee into the increase wire at the cruise switch which is connected to pin# at ECM

Pin# 8 - Not Used

Pin# 10 - connect to chassis ground.

**International Navpak (T 444E, DT 466E, DT 466E HT, 530E, 530E HT)**

Pin# 2 - join to wire # 46B (grey)

Pin# 3 - join to wire # 97CC (Violet)

Pin# 6 - join to wire # 97DF (Violet).

Pin# 7 - join to wire # 46A (Grey)

Pin# 8 - Not Used.

Pin# 10 - join to wire #97DF (Violet)

**Mack V-Mac III Electronic Engine**

Pin# 2 - tee into the VJ1-8 wire at the VECU

Pin# 3 - tee into the VJ2-9 wire at the VECU

Pin# 6 - connect to the 12v key switch fused (10amp) power.

Pin# 7 - tee into the VJ1-7 wire at the VECU

Pin# 8 - tee into the VJ1-6 wire at the VECU

Pin#10 - connect to the 12V key switch fused (10amp) power.

**Volvo Vectro Electronic Engine**

Pin# 2 - tee into the decrease wire# 564A at the VECU or at the Cruise Switch

Pin# 3 - tee into the on/off wire 562 at the VECU or at the Cruise Switch

Pin# 6 - connect to the 12v key switch fused (10amp) power.

Pin# 7 - tee into the increase wire# 563A at the VECU or at the Cruise Switch

Pin# 8 - Not Used

Pin#10 - connect to the 12v key switch fused (10amp) power.

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### **Mercedes-Benz Electronic Engine**

Pin# 2 - tee into the decrease wire at the cruise switch or at wire# 4 grey connector VECU.

Pin# 3 - tee into the on/off wire at the cruise switch or at wire# 6 at grey connector VECU.

Pin# 6 - connect to chassis ground.

Pin# 7 - tee into the increase wire at the cruise switch or at wire# 5 at grey connector VECU.

Pin# 8 - Not Used.

Pin#10 - connect to the chassis ground.

### **Detroit DDEC III, IV & V**

Pin# 2 - tee into the decrease wire at the cruise switch which connected to pin# 541 (J1) ECM.

Pin# 3 - tee into the on/off wire at the cruise switch which connected to pin# 544 (F2) ECM.

Pin# 6 - connect to chassis ground.

Pin# 7 - tee into the increase wire at the cruise switch which is connected to pin# 545 (G3) ECM

Pin# 8 - Not Used

Pin#10 - connect to chassis ground.