

### **Modification of J-45990 VIM to suit K-Line diagnostics**

Following is basic description of modification performed to J-45990 Vehicle Interface Module for Mercedes Benz engines. This modification still allows the VIM to be used as per standard configuration and provides additional communications using the K-Line and ADM2. This configuration is typical for most of our applications within Australia.

#### **Parts Required:-**

- 1 x 0115457726 terminal – PLD
- 2 x 0135457626 terminal – ADM
- 1 x 0135456226 connector / plug 12pin ADM
- 6 x 0035450926 terminal – diag plug (1 used for 37 pin bulkhead connection to PLD)
- 1 x 0055454626 Connector diag plug 14 pin
- 1 x 0005460422 Fixing ring
- 1 x 0015450083 Dust Cover
- 1 x 0005450152 Washer
- 1 x 23015205 Terminal (used for 37 pin bulkhead connection to PLD)
- Numerous lengths of wire, different colour.
- 3 x crimp joiners for splicing.
- 1 x crimp terminal for crank signal wire to switch.

#### **Lights purchased externally were Ashdown part numbers:-**

- 1 x 53-94574 - amber pilot light.
- 1 x 53-94573 - red pilot light.

#### **Procedure:-**

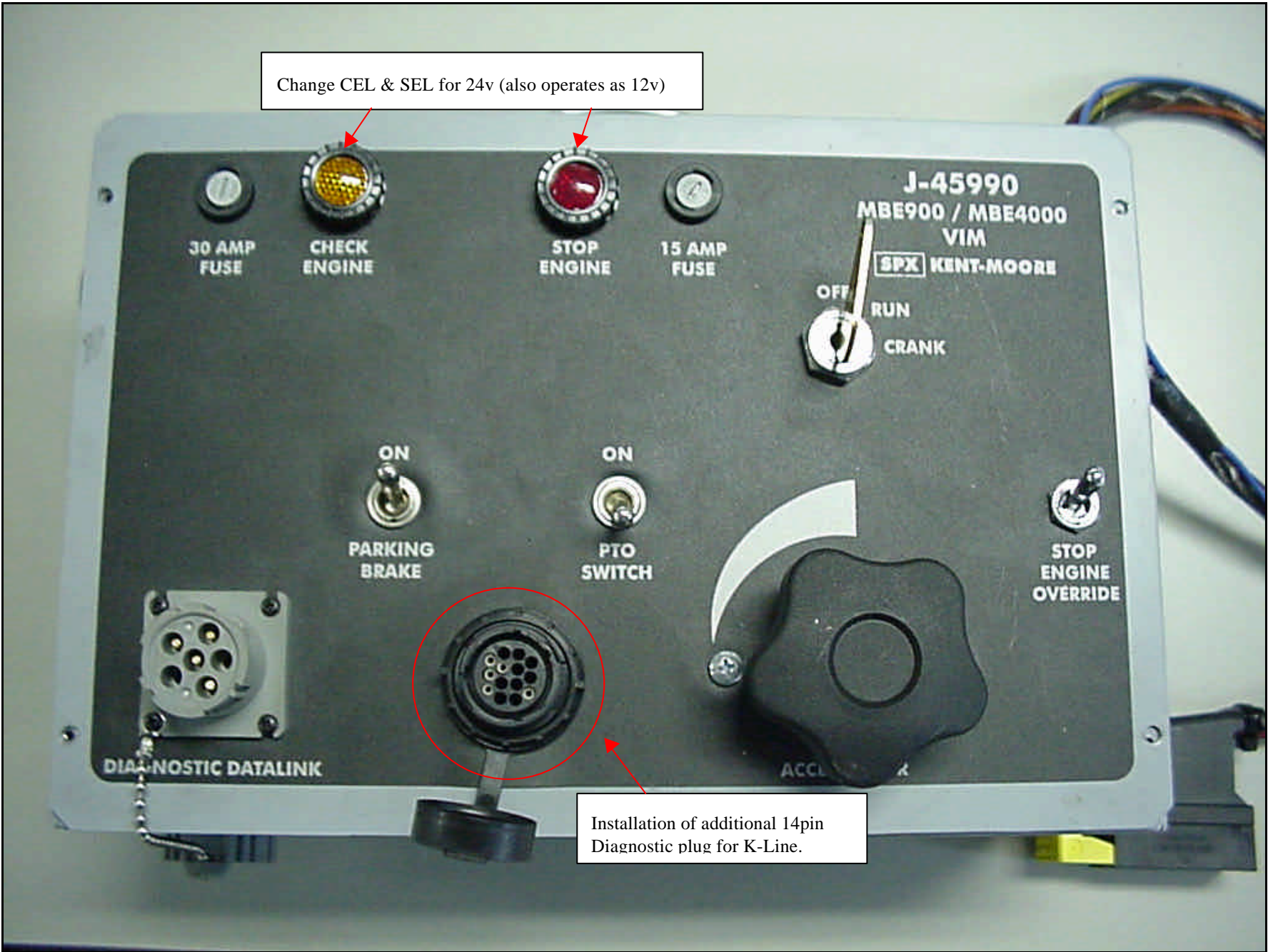
- Install K-line wire from ADM plug 12/2 to Diag plug 14/14.
- Install K-Line wire from PLD plug 16/13 to Diag plug 14/5 (via AMP 37 pin bulkhead connector).
- Install wire (splice) from ground (B-) to Diag Plug 14/1.
- Install wire (splice) from power (B+) to Diag Plug 14/3.
- Install wire (splice) from Ignition (B+) to Diag Plug 14/2.

#### **Additional modification if required to run engine on dyno or test:-**

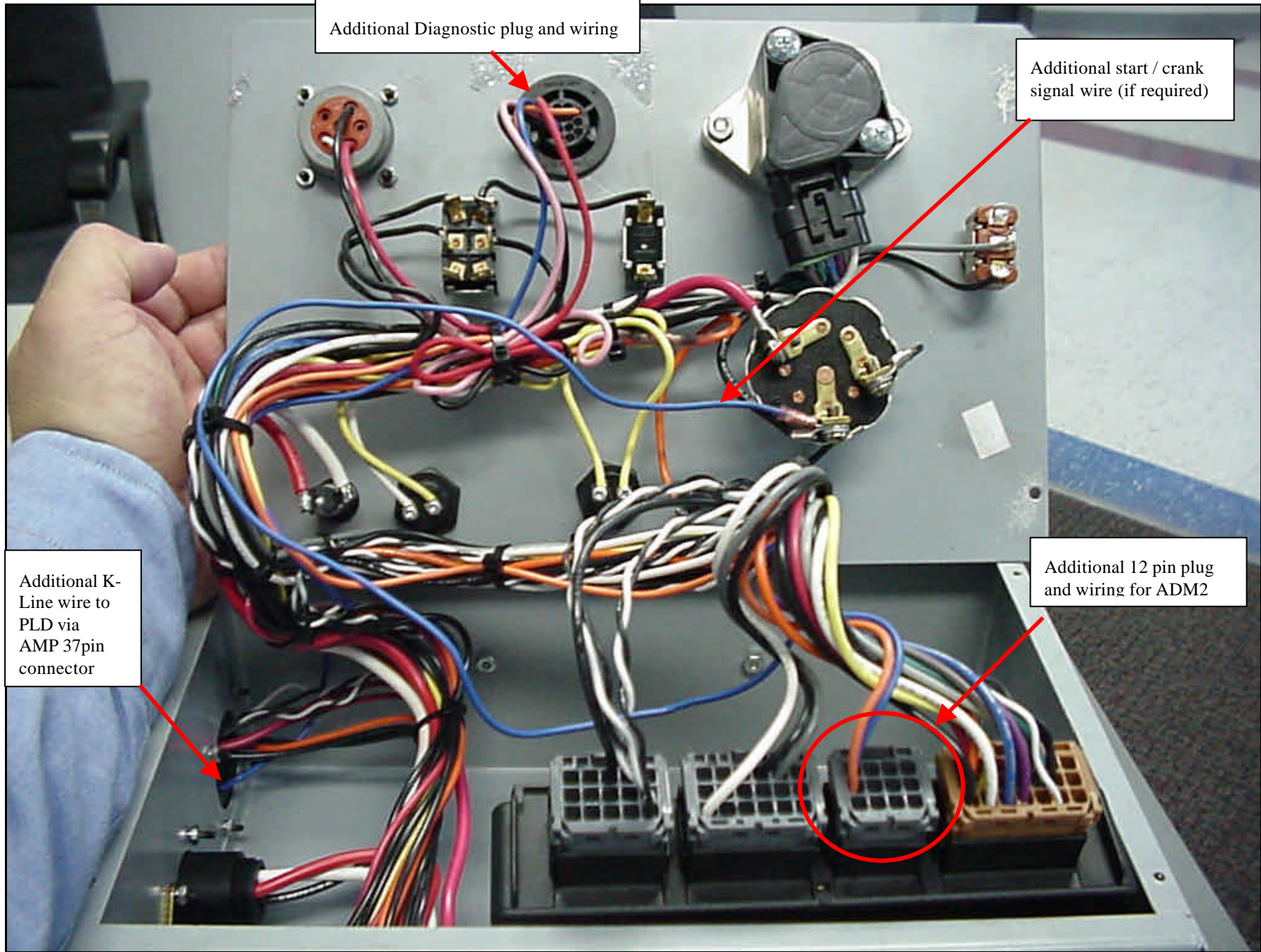
- To start and run an engine on dyno (using dyno starter motor) with this VIM module install additional wire from crank signal of start key to ADM plug 12/1.

This crank signal would then have to be activated whilst engine cranking to allow start up.

Change CEL & SEL for 24v (also operates as 12v)



Installation of additional 14pin Diagnostic plug for K-Line.

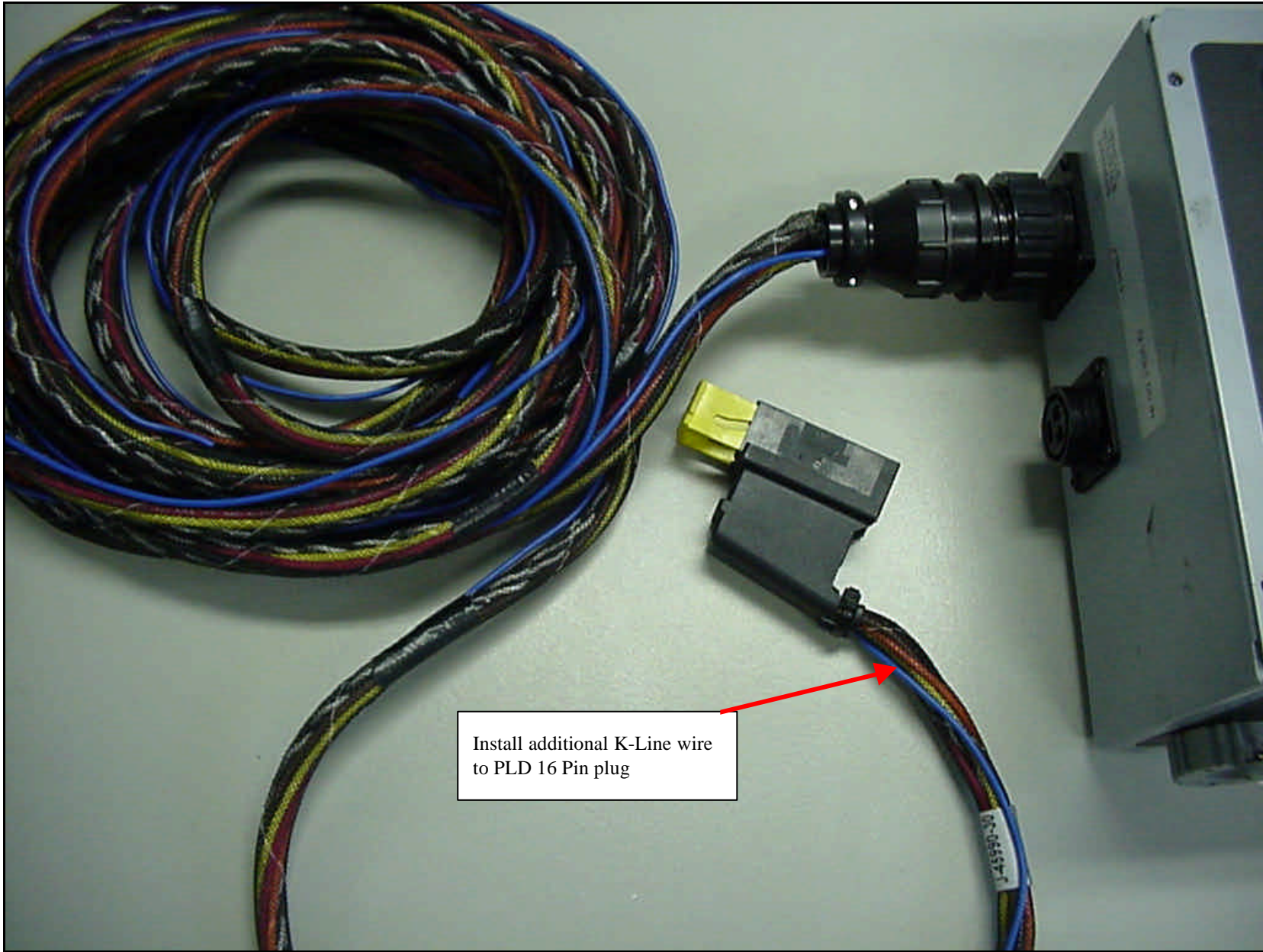


Additional Diagnostic plug and wiring

Additional start / crank signal wire (if required)

Additional K-Line wire to PLD via AMP 37pin connector

Additional 12 pin plug and wiring for ADM2



Install additional K-Line wire  
to PLD 16 Pin plug