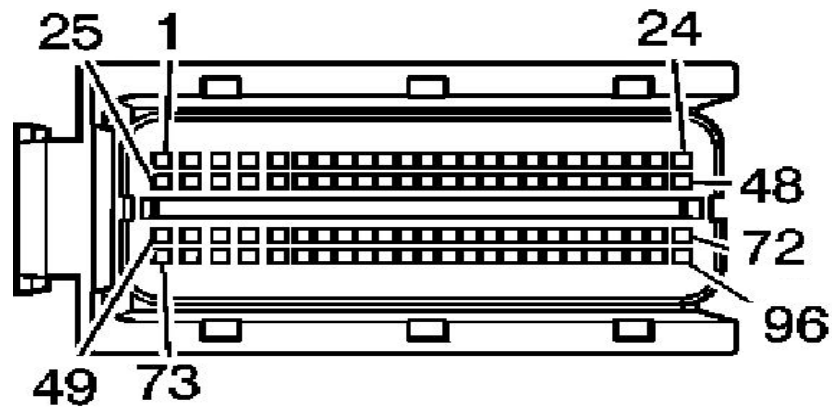


X1



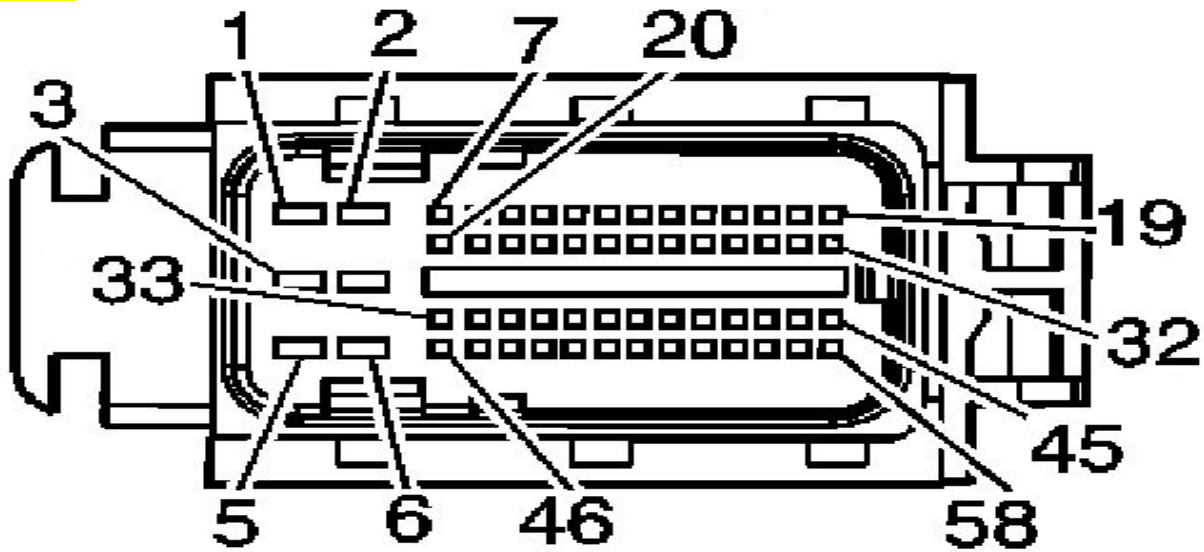
|    | colour     | function                               |
|----|------------|--|
| 1  | org        | fuel inj volts 1&4                     |
| 2  | dk bl/wh   | inj 8                                  |
| 3  | org/blk    | inj 7                                  |
| 5  | yel        | MAF signal - MAF pin 1                 |
| 6  | org/blk    | low ref - MAP pin A                    |
| 9  | brn        | oil level switch                       |
| 11 | gry/blk    | low ref - CKP pin 2                    |
| 12 | gry        | 5v ref 3 - MAP pin C                   |
| 13 | tan        | 5v ref 3 - turbo vane pos sensor pin D |
|    |            |  |
| 15 | gry/wh     | 5v ref 2 - EOP pin 3                   |
|    |            |  |
| 19 | lt gn      | MAP signal - MAP pin B                 |
| 20 | yel        | turbo vane pos sensor signal - pin B   |
| 21 | lt blu     | APP sensor 2 signal - APP pin B        |
| 23 | blk        | low ref - EOP pin 1                    |
| 24 | ppl/wh     | FPR volts - FPR pin 2                  |
| 25 | pnk        | inj volts 3&8                          |
| 26 | yel/blk    | inj 6                                  |
| 27 | pnk/blk    | inj 3                                  |
| 30 | org/blk    | low ref - FPR sensor pin 1             |
| 33 | gry/blk    | low ref - MAF pin 2                    |
|    |            |  |
|    |            |  |
| 38 | tan        | 5v ref 2 - APP pin C                   |
| 39 | tan or blu | 5v ref 2 - FPR sensor pin 3            |
| 40 | ppl/wh     | 5v ref 1 - CKP sensor pin 3            |
| 41 | dk bl      | 5v ref 1 - CMP sensor pin 3            |
| 42 | tan/blk    | IAT sensor signal - MAF pin 5          |
| 44 | tan/wh     | oil pressure signal - EOP pin 2        |
| 45 | lt gn      | ECT signal - NOT USED!!!               |
| 46 |            | DSP 5 Signal side switch               |
| 47 | tan        | low ref ECT - ECT pin A                |
| 48 | dk blu     | turbo vane position solenoid - pin A   |
| 49 | ppl        | Fuel inj volts 3 inj 2&5               |

**LMM E35B ECM pinout diagram**  
**NON Emissions compliant**

**Derks Custom Cars, Biggar**  
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|           |    |            |   |
|-----------|----|------------|---|
| <b>X1</b> | 50 | tan/wh     | inj 5   |
|           | 51 | lt blu/blk | inj 4   |
|           | 53 | yel/blk    | low ref IAT 2 - IAT 2 pin 2                       |
|           | 54 |            | DSP 5 Ground side switch                          |
|           | 56 | dk blu/wh  | CMP sensor signal - CMP pin 1                     |
|           | 57 | gry/blk    | 4WD low signal - GND in low range                 |
|           | 62 | tan        | low ref MAF - MAF pin 4                           |
|           | 63 | org/blk    | low ref turbo vane position - pin C               |
|           | 65 | lt blu     | IAT sensor signal 2 - IAT 2 pin 1                 |
|           |    |            |   |
|           |    |            |   |
|           |    |            |   |
|           |    |            |   |
|           | 71 | yel/blk    | starter enable - only used with BCM               |
|           | 72 | yel        | fuel pressure - FPR sensor pin 1                  |
|           | 73 | yel        | fuel inj volts 2 inj 6&7                          |
|           | 74 | tan        | inj 1   |
|           | 75 | lt gn/blk  | inj 2   |
|           | 76 | pnk        | IGN 1 volts - 12v in run and start 15A fuse       |
|           | 77 | red/wh     | B+ 10A fuse                                       |
|           | 78 | ppl        | low ref APP - APP pin A                           |
|           | 79 | wh/blk     | CKP signal - CKP pin 1                            |
|           | 82 | tan/wh     | axle switch signal - GND when axle locked         |
|           | 83 | lt blu/wh  | TCC brake signal - 12v brakes applied             |
|           | 84 | dk gn/wh   | PTO engine off signal                             |
|           | 85 | yel/blk    | water in fuel - WIF sensor pin A, pin B to ground |
|           |    |            |   |
|           | 88 | brn        | low ref - CMP pin 2                               |
|           |    |            |   |
|           |    |            |   |
|           | 92 | yer or brn | FPR sensor signal - FPR sensor pin 2              |
|           |    |            |   |
|           |    |            |   |
|           | 96 | wh         | low ref - turbo vane solenoid pin B               |

X2


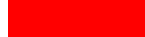


|    | colous | Funtion  |  |
|----|--------|----------|--|
| X2 | 1      | pnk      | IGN 1 - hot in start and run 25A, tied together with pin 3 & 5 |
|    | 2      | blk/wh   | GND  |
|    | 3      | pnk      | IGN 1  |
|    | 4      | blk/wh   | GND  |
|    | 5      | pnk      | IGN 1  |
|    | 6      | blk/wh   | GND  |
|    | 8      | brn      | charge indicator - pin 1 alternator                            |
|    | 12     | dk gn/wh | fuel pump - 12v to fuel balance relay                          |
|    | 13     | tan      | low ref - AC system  |
|    | 15     | wh/blk   | 5v ref 3 - APP pin D   |
|    | 16     | dk bl    | wait to start indicator - GND side of light                    |
|    | 19     | yel      | power train ctrl relay GND side                                |
|    | 21     | pnk      | IGN 1 - hot in start and run 15A                               |
|    | 27     | gry      | 5v ref 2 - AC system   |
|    | 29     | brn      | low ref - APP pin F  |
|    | 30     | brn/wh   | MIL ctrl - GND side of MIL light                               |
|    | 31     | dk gn/wh | AC relay ctrl  |
|    | 34     | tan/blk  | low ref - fuel level sensors                                   |
|    | 35     | org/blk  | AC ref v pressure  |
|    | 36     | ppl      | fuel level signal  |
|    | 38     | gry      | alternator signal - pin 2 alternator                           |
|    | 39     | org/blk  | P/N signal only used with BCM                                  |
|    | 44     | tan      | data bus - TCM pin 27 or OBD2 port pin 14 w/o TCM              |
|    | 45     | org/blk  | vss signal out   |

**LMM E35B ECM pinout diagram**  
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|           |    |           |   |
|-----------|----|-----------|---|
| <b>X2</b> | 47 | brn       | lof ref - fuel rail temp pin 2                  |
|           | 48 | yel       | fuel temp signal - fuel rail temp pin 1         |
|           | 49 | dk blu    | APP sensor sig 1 - APP pin E                    |
|           | 50 | lt blu/wh | fuel level signal                               |
|           |    |           |   |
|           | 54 | yel/blk   | vss out   |
|           | 56 | dk blu    | acc wake up serial data + IGN and TCM pin 43    |
|           | 57 | tan/blk   | data bus + TCM pin 6 or OBD2 port pin 6 w/o TCM |

 Optional wiring, not required to run  
 DSP 5 Switch