

# FUSE LAYOUT (TIPM 7)

2007 – 2010



## FUSES / RELAYS FOR THIS TIPM

| FUSE / RELAY | AMP                   | DESCRIPTION             |
|--------------|-----------------------|-------------------------|
| <b>CB1</b>   | JCASE 25A             | ACC-PWR Windows         |
| <b>J1</b>    | JCASE 40A             | Power Folding Seat      |
| <b>J2</b>    | Fuse FMX/JCASE<br>30A | Power Liftgate Module   |
| <b>J3</b>    | Fuse FMX/JCASE<br>30A | Rear Door Window switch |

|            |                         |   |
|------------|-------------------------|---|
| <b>J4</b>  | Fuse FMX/JCASE<br>25A   | Driver Door windows switch                                      |
| <b>J5</b>  | Fuse FMX/JCASE<br>25A   | Passenger Door window switch                                    |
| <b>J6</b>  | Fuse FMX/JCASE<br>40A   | ABS/ESP Anti lock Braking System / Electronic Stability Program |
| <b>J7</b>  | Fuse FMX/JCASE<br>30A   | ABS/ESP Anti lock Braking System / Electronic Stability Program |
| <b>J8</b>  | Fuse FMX/JCASE<br>40A   | Power Memory Seat - [If Equipped]                               |
| <b>J9</b>  | Fuse FMX/JCASE<br>40A   | Partial Zero Emissions Vehicle Motor / Flex Fuel                |
| <b>J10</b> | Fuse FMX/JCASE<br>30A   | Headlamp Washer Relay / Manifold Tuning Valve                   |
| <b>J11</b> | Fuse FMX/JCASE<br>30A   | Power Sliding Door Module / Anti-Theft Module Relay Lock Feed   |
| <b>J12</b> | Fuse FMX/JCASE<br>30A   | REAR HVAC / RAD FAN   |
| <b>J13</b> | "Fuse FMX/JCASE<br>60A" | Ignition Off Draw (IOD) - Main                                  |
| <b>J14</b> | Fuse FMX/JCASE<br>40A   | Rear Window Defogger  |
| <b>J15</b> | Fuse FMX/JCASE<br>30A   | Rear A/C Air Conditioning & Heater Blower                       |
| <b>J17</b> | Fuse FMX/JCASE<br>40A   | Starter Solenoid  |
| <b>J18</b> | Fuse FMX/JCASE<br>20A   | Powertrain Control Module Trans Range / PCM / TCM               |
| <b>J19</b> | Fuse FMX/JCASE<br>60A   | Radiator Fan  |

|            |                       |   |
|------------|-----------------------|---|
| <b>J20</b> | Fuse FMX/JCASE<br>30A | Front Wiper LO/Hi   |
| <b>J21</b> | Fuse FMX/JCASE<br>20A | Front / Rear Wiper Washer Pump  |
| <b>J22</b> | Fuse FMX/JCASE<br>25A | Sunroof Module  |
| <b>M1</b>  | Fuse MINI 15A         | Rear Center Brake Lamp / Brake Switch   |
| <b>M2</b>  | Fuse MINI             | - Not Used  |
| <b>M3</b>  | Fuse MINI 20A         | Spare Fuse  |
| <b>M4</b>  | Fuse MINI 10A         | Trailer Tow   |
| <b>M5</b>  | Fuse MINI 25A         | Inverter  |
| <b>M6</b>  | Fuse MINI 20A         | Power Outlet #1 (ACC), Rain Sensor  |
| <b>M7</b>  | Fuse MINI 20A         | Power Outlet #2 (BATT/ACC SELECT)   |
| <b>M8</b>  | Fuse MINI 20A         | Front Heated Seat - [If Equipped]   |
| <b>M9</b>  | Fuse MINI 20A         | Rear Heated Seat - [If Equipped]  |
| <b>M10</b> | Fuse MINI 15A         | Ignition Off Draw - Video System, Satellite Radio, DVD,<br>Hands-free Module, Universal Garage Door Opener, Vanity<br>Lamp, Streaming Video Module  |
| <b>M11</b> | Fuse MINI 10A         | Ignition Off Draw - Climate Control System  |
| <b>M12</b> | Fuse MINI 30A         | Amplifier (AMP) / Radio   |
| <b>M13</b> | Fuse MINI 20A         | Ignition Off Draw / Instrument Cluster, SIREN, Clock<br>Module, Multi-Function Control Switch / ITM   |
| <b>M14</b> | Fuse MINI 20A         | Spare Fuse  |
| <b>M15</b> | Fuse MINI 20A         | Rear View Mirror, Instrument Cluster, Multi-Function<br>Control Switch, Tire Pressure Monitor, Glow Plug Module -<br>Export Diesel Only, ASSY Shifter (Hall Effect), Acoustic Noise<br>Cancellation |
| <b>M16</b> | Fuse MINI 10A         | Airbag Module   |

|            |               |  |
|------------|---------------|--|
| <b>M17</b> | Fuse MINI 15A | Left Tail Light / License / Park Lamp, Running Lamps   |
| <b>M18</b> | Fuse MINI 15A | Right Tail Light / Park / Run Lamp   |
| <b>M19</b> | Fuse MINI 25A | Automatic Shutdown #1 and #2   |
| <b>M20</b> | Fuse MINI 15A | Instrument Cluster Interior Light, Switch Bank, Steering Column Module, Switch Steering Wheel  |
| <b>M21</b> | Fuse MINI 20A | Automatic Shutdown #3  |
| <b>M22</b> | Fuse MINI 10A | Right Horn (HI/LOW)  |
| <b>M23</b> | Fuse MINI 10A | Left Horn (HI/LOW)   |
| <b>M24</b> | Fuse MINI 25A | Rear Wiper   |
| <b>M25</b> | Fuse MINI 20A | Fuel Pump, Diesel Lift Pump - [Export Only]  |
| <b>M26</b> | Fuse MINI 10A | Power Mirror Switch, Driver Window Switch  |
| <b>M27</b> | Fuse MINI 10A | Ignition Switch, Wireless Control Module, Keyless Entry Module, Steering Column Lock   |
| <b>M28</b> | Fuse MINI 10A | Powertrain Control Module, Transmission Feed, Transmission Control Module PCM / TCM  |
| <b>M29</b> | Fuse MINI 10A | Occupant Classification Module   |
| <b>M30</b> | Fuse MINI 15A | Rear Wiper Module, Power Folding Mirror, J1962 Diagnostic Feed   |
| <b>M31</b> | Fuse MINI 20A | Back-Up Lamps / Reverse lights   |
| <b>M32</b> | Fuse MINI 10A | Airbag Module, TT EUROPE   |
| <b>M33</b> | Fuse MINI 10A | Powertrain Control Module, Transmission Control Module PCM / TCM   |
| <b>M34</b> | Fuse MINI 10A | Park Assist, Heater Climate Control System Module, Headlamp Wash, Compass, IR Sensor, Rear Camera, Lamp Door FT Drv / Pass, Lamp Flashlight, AHLM, Relay Diesel Cabin Heater, Rad Fan Diesel |

|                    |                     |   |
|--------------------|---------------------|---|
| <b>M35</b>         | Fuse MINI 10A       | Heated Mirrors  |
| <b>M36</b>         | Fuse MINI 20A       | Power Outlet #3   |
| <b>M37</b>         | Fuse MINI 10A       | Antilock Brakes, Stability Control System, Stop Lamp Switch, Fuel Pump Relay Hi Control |
| <b>M38</b>         | Fuse MINI 25A       | Door Lock / Unlock Motors, Liftgate Lock / Unlock Motors                                |
| <b>K1</b>          | external grey relay | RUN / ACCESSORY   |
| <b>K2</b>          | external grey relay | RUN START RELAY   |
| <b>K3</b>          | external grey relay | STARTER SOLENOID RELAY  |
| <b>K4</b>          | external grey relay | RUN / START RELAY   |
| <b>K5</b>          | external grey relay | PCM / POWERTRAIN CONTROL MODULE RELAY   |
| <b>K6</b>          | external grey relay | Rear Window Defogger  |
| <b>K7</b>          | external grey relay | NOT POPULATED   |
| <b>K8</b>          | external grey relay | NOT POPULATED   |
| <b>K9</b>          | external grey relay | REAR A/C AIR CONDITIONING AND HEAT BLOWER MOTOR   |
| <b>K10</b>         | external grey relay | AUTO SHUT DOWN RELAY  |
| <b>K11</b>         | external grey relay | Radiator fan low relay  |
| <b>FUSE PULLER</b> | -                   | -   |

## FUNCTIONS OF THIS TIPM

|  |                         |   | INTERNAL | INTERNAL                  |
|--|-------------------------|---|----------|---------------------------|
| THIS TIPM's FUNCTIONS may be an internal tipm issue (be sure to check external fuses and relays) |                         | Important Notes!  | Links    | Fuse and Relay check list |
| General functions  | Functions TIPM controls |   |          |                           |
| Starting   | Fuel Pump               | Fuel pump not turning on, causing stalling or starting issues. It may also be stuck |          | relevant fuses            |

|              |                                     |  |   |  |
|--------------|-------------------------------------|--|---|--|
|              |                                     | on constantly, draining the battery  |   |  |
|              | Starter                             | may be an internal tipm issue (be sure to check external fuses and relays)   |   | external relays K1 through K5 / relevant fuses |
| Transmission | PWR to Transmission Control Module  | may be an internal tipm issue (be sure to check external fuses and relays)   |   | external relay K5 / relevant fuses             |
| Lighting     | Headlights                          | headlights & wipers going off at the same time may be issue with can-bus communication                             | <a href="#">Bus Issue - Wipers &amp; Lights</a> | relevant fuses                                 |
|              |                                     | headlights / wipers / washer fluid going off may be a short elsewhere in the vehicle (no external fuses or relays) |   |  |
|              | Fog Lights                          | signals or fog lights n/w or crossed in 2011-13 Caravan or Town & Country - See Link                               | <a href="#">Signals or Fog Lights Issue</a>     |  |
|              | Turn Signals                        | signals or fog lights n/w or crossed in 2011-13 Caravan or Town & Country - See Link                               |   |  |
|              | Reverse Lights                      | may be an internal tipm issue (be sure to check external fuses)  |   |  |
|              | Brake Lights                        | may be an internal tipm issue (be sure to check external fuses)  |   |  |
|              | Trailer Lights                      | may be an internal tipm issue (be sure to check external fuses)  |   |  |
|              | Running Lights                      | may be an internal tipm issue (be sure to check external fuses)  |   |  |
|              | License Plate Light                 | may be an internal tipm issue (be sure to check external fuses)  |   |  |
| locks        | door locks   trunk / tailgate locks | If locks are not working after install, maybe reset related issue. Follow soft reset instructions                  | <a href="#">TIPM Installation</a>               |  |
|              |                                     | may be an internal tipm issue (be sure to check external fuses)  |   |  |
| All Other    | Heated Seats                        | may be an internal tipm issue (be sure to check external fuses)  |   | relevant fuses                                 |
|              | Air conditioning / Heat Blow Motor  | may be an internal tipm issue (be sure to check external fuses and relays)   |   | external relays K7 & 9 / relevant fuses        |
|              | Auto Shut Down                      | may be an internal tipm issue (be sure to check external fuses and relays)   |   | external relay K10 / relevant fuses            |

|  |                        |  |  |                                     |
|--|------------------------|--|--|-------------------------------------|
|  | Radiator / Cooling Fan | may be an internal tipm issue (be sure to check external fuses and relays)   |  | external relay K11 / relevant fuses |
|  | Horn                   | horn going off on it's own may be a short elsewhere in the vehicle   |  | relevant fuses                      |
|  |                        | headlights / wipers / washer fluid going off may be a short elsewhere in the vehicle (no external fuses or relays) |  |                                     |
|  |                        | may be an internal tipm issue (be sure to check external fuses)  |  |                                     |
|  | Wipers                 | headlights & wipers going off at the same time may be issue with can-bus communication (not tipm)                  |  | relevant fuses                      |
|  |                        | may be an internal tipm issue (be sure to check external fuses)  |  |                                     |
|  | Washer Pump / Fluid    | headlights / wipers / washer fluid going off may be a short elsewhere in the vehicle (no external fuses or relays) |  | relevant fuses                      |
|  |                        | may be an internal tipm issue (be sure to check external fuses)  |  |                                     |



Other issues not mentioned that can be TIPM related

Dash warning lights - may be internal TIPM failure causing communication issues with other modules, which can cause warning lights. can be caused by many other factors other than TIPM as well, like loose wire, bad connection in a plug, etc.

Vehicle running with the key out

