

What is a CFW?

A CFW (Compression Forming Wire-harness) is a wire harness protector made of non woven fabric and formed by hot compression molding. One of the two types of CFWs offers desired routings where wire harnesses should go through, and the other insulates noises that are likely to occur when wire harnesses and the vehicle body interfere with each other.

If the wire harness is protected with CFWs, refer to the cautions listed below for handling.

- Do not deform or fold.
- Store at normal temperature and humidity.
- Protect from dirt or metal flakes. (Do not place or store in dusty locations)
- Protect from water. (Do not store in humid locations. Also, store in indoor locations to protect from rain)
- Protect from fluids and oil/grease.
Liquids: Battery fluids, washer fluids, LLC etc.
Oil/grease: Lubricants, silicon oil, engine oil, brake fluids etc.
- Do not cut CFWs to repair wire harnesses.

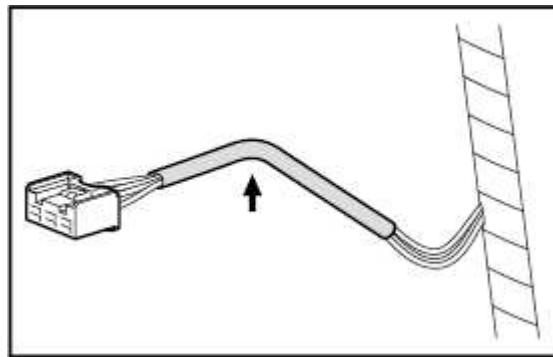
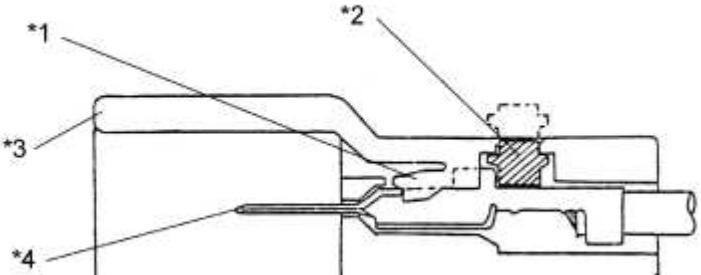
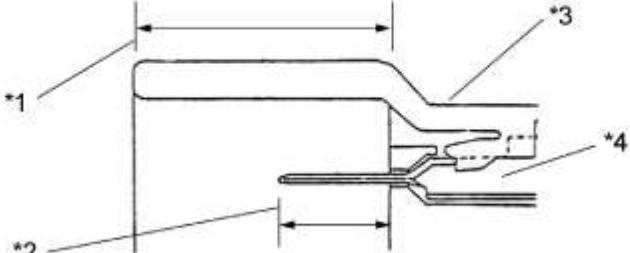


Table 1 : Characteristics of the new types of connector (Improvement)

| Characteristics (Improvement) | Note | | | | | | | | |
|--|--|----|----------------------|----|------------------------|----|---------|----|----------|
| <p>1. Double Lock</p>  | <p>If terminal is not inserted to housing correctly, the retailer does not fit.</p> <table border="1"> <tr> <td>*1</td><td>Lance (Primary Lock)</td></tr> <tr> <td>*2</td><td>Retainer (Double Lock)</td></tr> <tr> <td>*3</td><td>Housing</td></tr> <tr> <td>*4</td><td>Terminal</td></tr> </table> | *1 | Lance (Primary Lock) | *2 | Retainer (Double Lock) | *3 | Housing | *4 | Terminal |
| *1 | Lance (Primary Lock) | | | | | | | | |
| *2 | Retainer (Double Lock) | | | | | | | | |
| *3 | Housing | | | | | | | | |
| *4 | Terminal | | | | | | | | |
| <p>2. Extension of Housing</p>  | <p>This is to prevent deformation of the terminal when it is inserted diagonally.</p> <table border="1"> <tr> <td>*1</td><td>Extension</td></tr> <tr> <td>*2</td><td>Shortening</td></tr> <tr> <td>*3</td><td>Housing</td></tr> <tr> <td>*4</td><td>Terminal</td></tr> </table> | *1 | Extension | *2 | Shortening | *3 | Housing | *4 | Terminal |
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| *2 | Shortening | | | | | | | | |
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| *4 | Terminal | | | | | | | | |
| <p>3. Change of Contact Structure and Introduction of Box-Shaped Structure</p> | <p>Expansion of contact section Stabilization of contact pressure</p> | | | | | | | | |

HINT:

Terminal retainer color is different according to connector body.

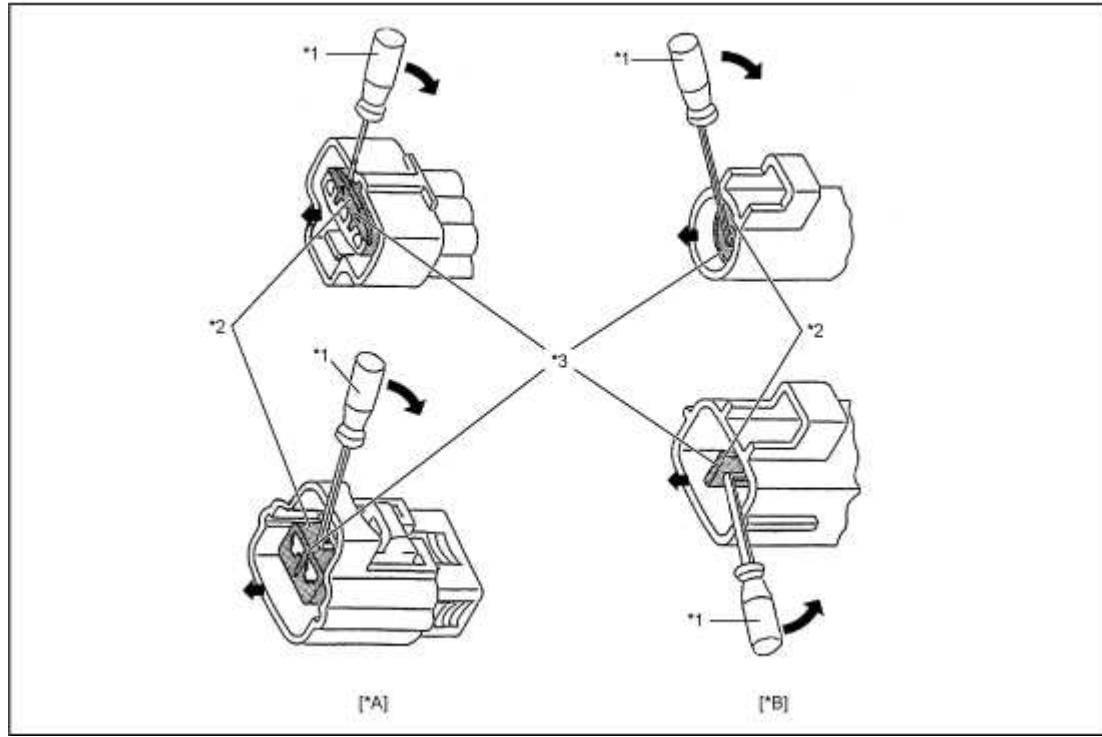
Example:

Terminal Retainer : Connector body

| | |
|----------------|-------------|
| Black or White | : Gray |
| Black or White | : Dark Gray |
| Gray or White | : Black |

[Case 1]

Type where terminal retainer is pulled up to the temporary lock position (Pull Type).

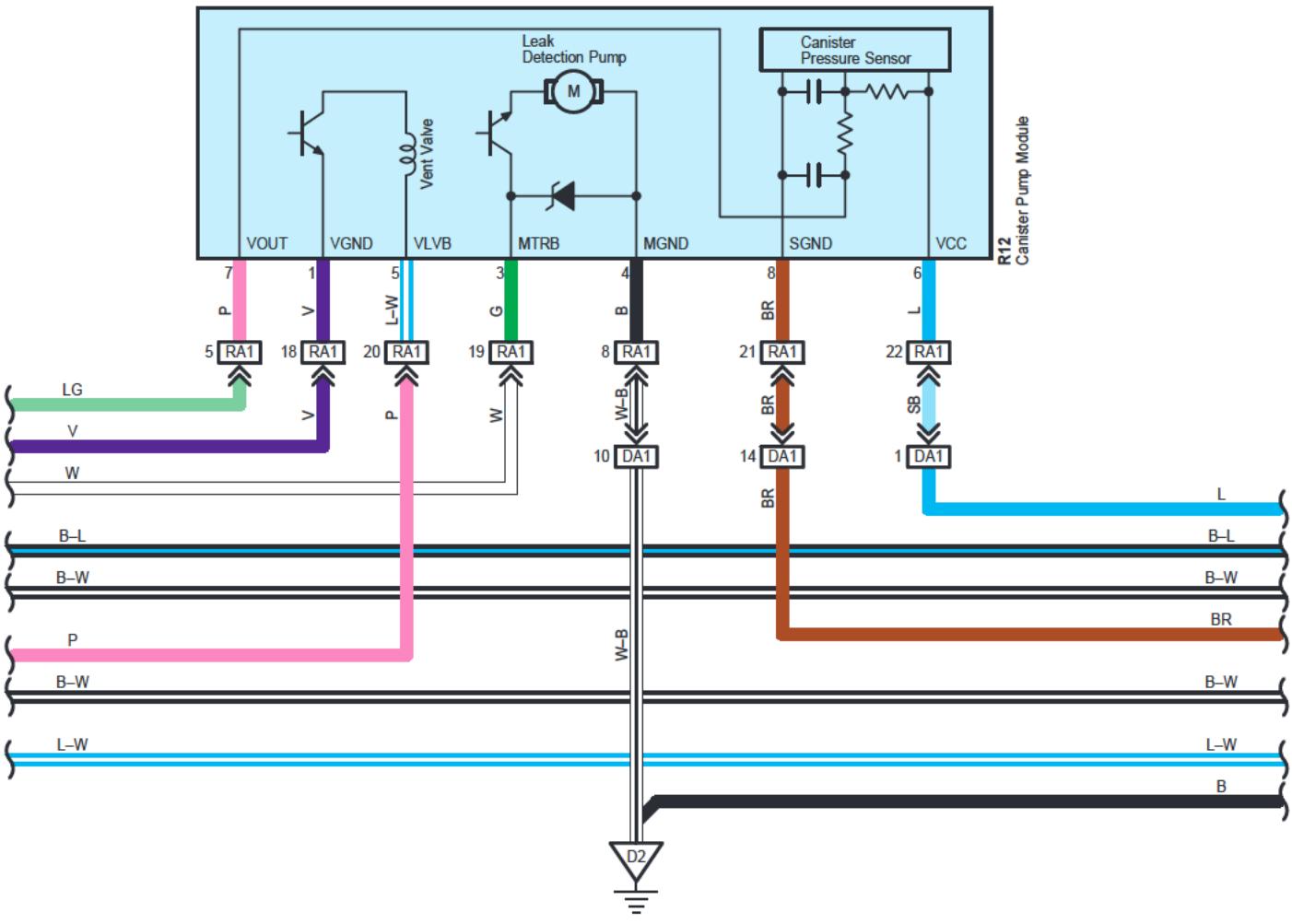
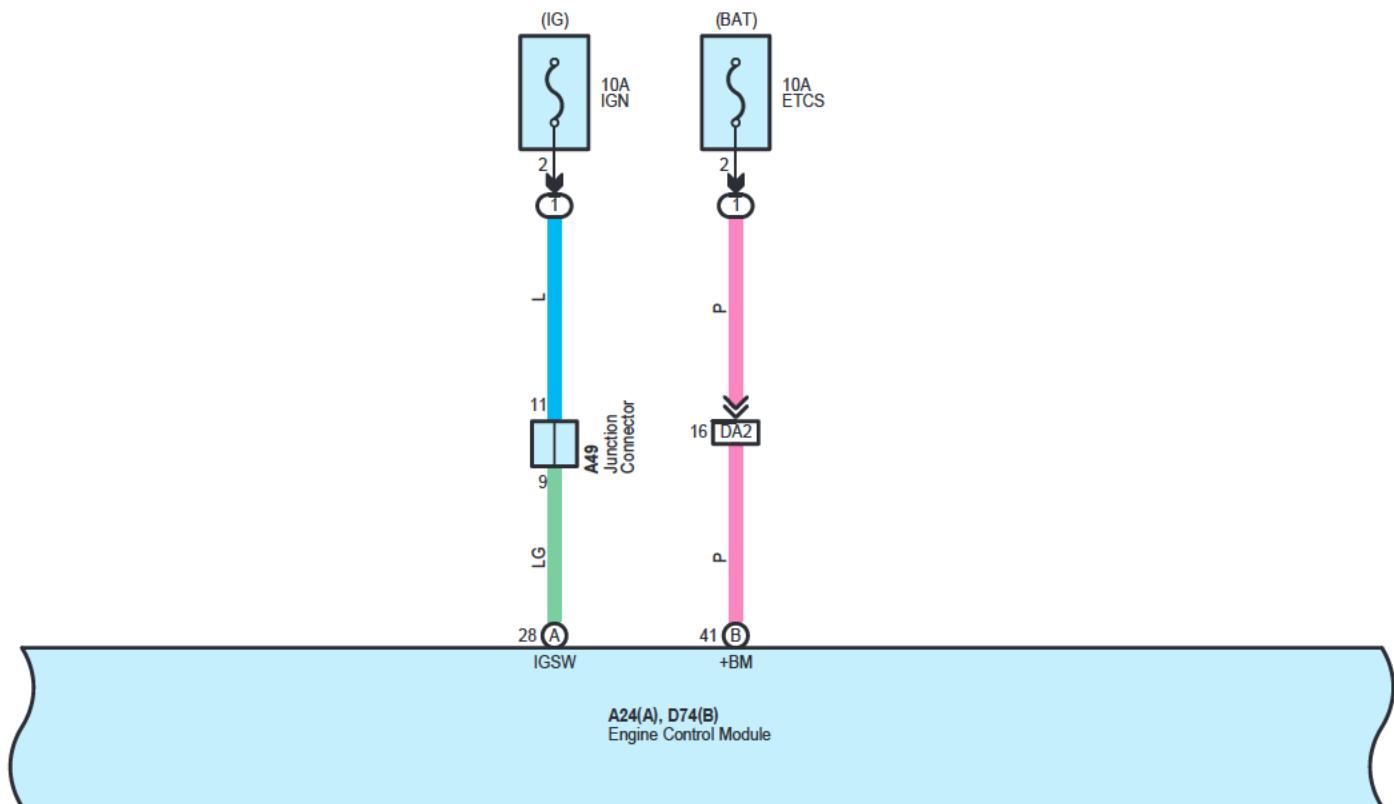


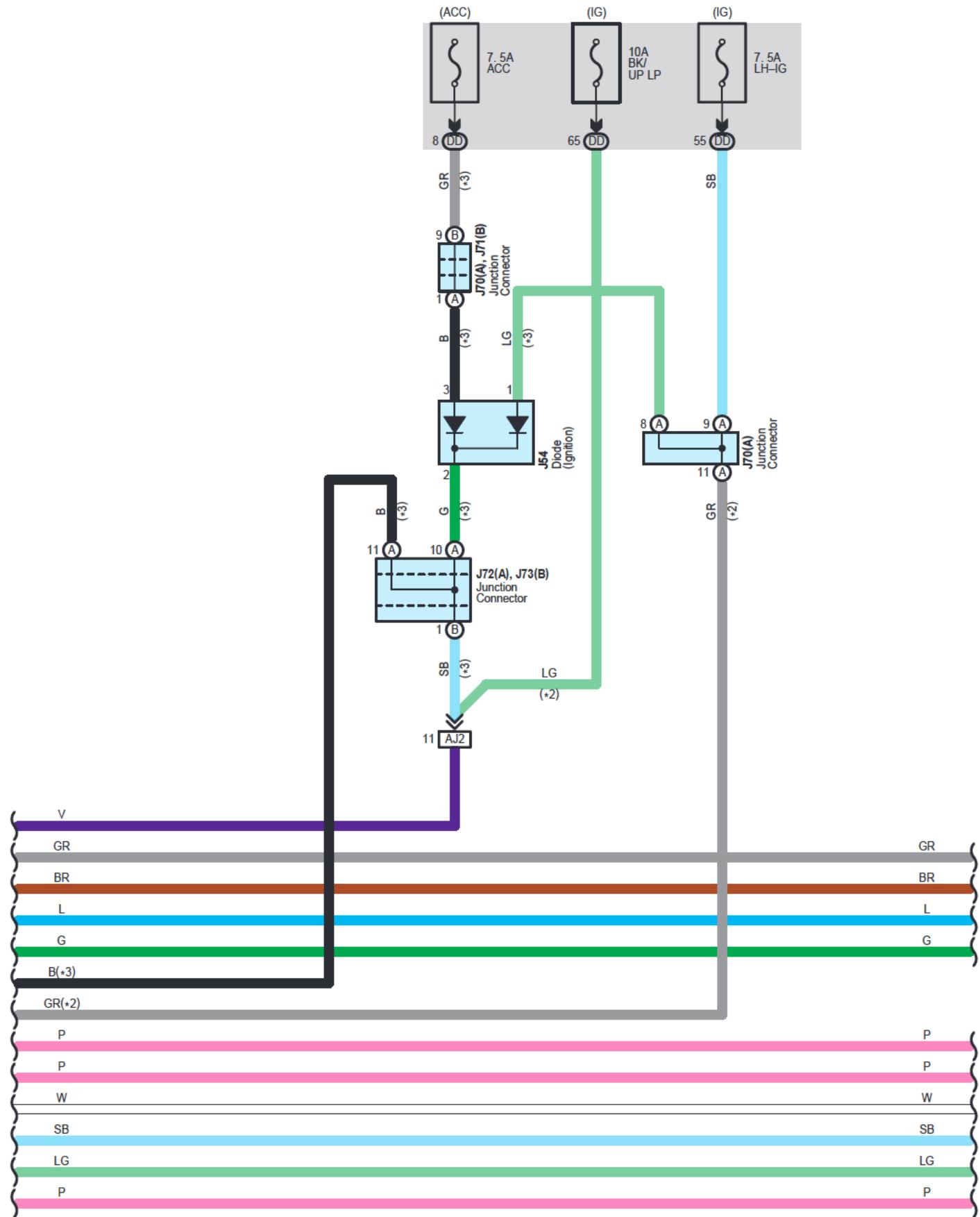
| | | | |
|----|--------------|----|-------------------|
| *A | Female | *B | Male |
| *1 | Special tool | *2 | Terminal Retainer |
| *3 | Access Hole | - | |

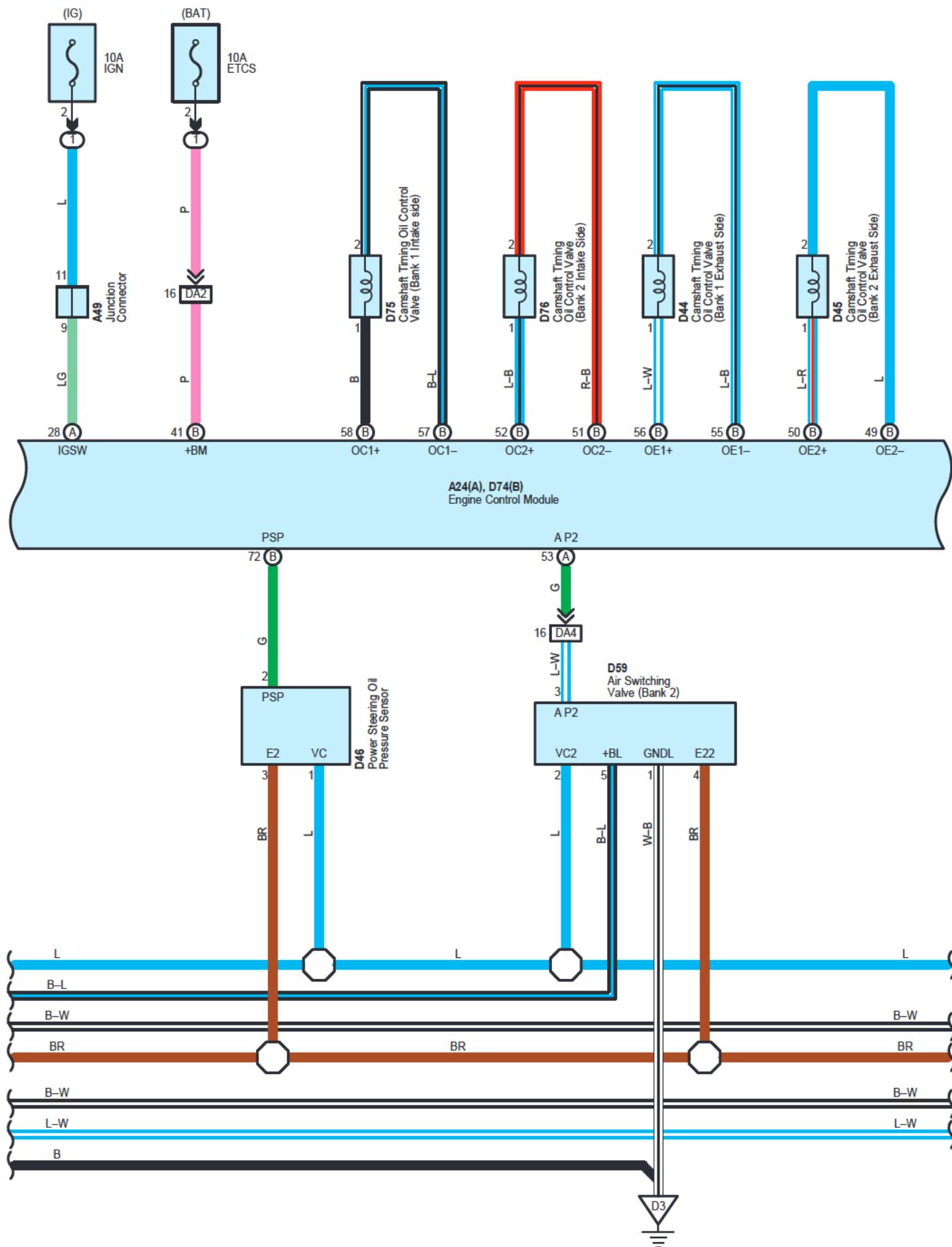
- (1) Insert the special tool into the terminal retainer access hole (\blacktriangle Mark) and pull the terminal retainer up to the temporary lock position.

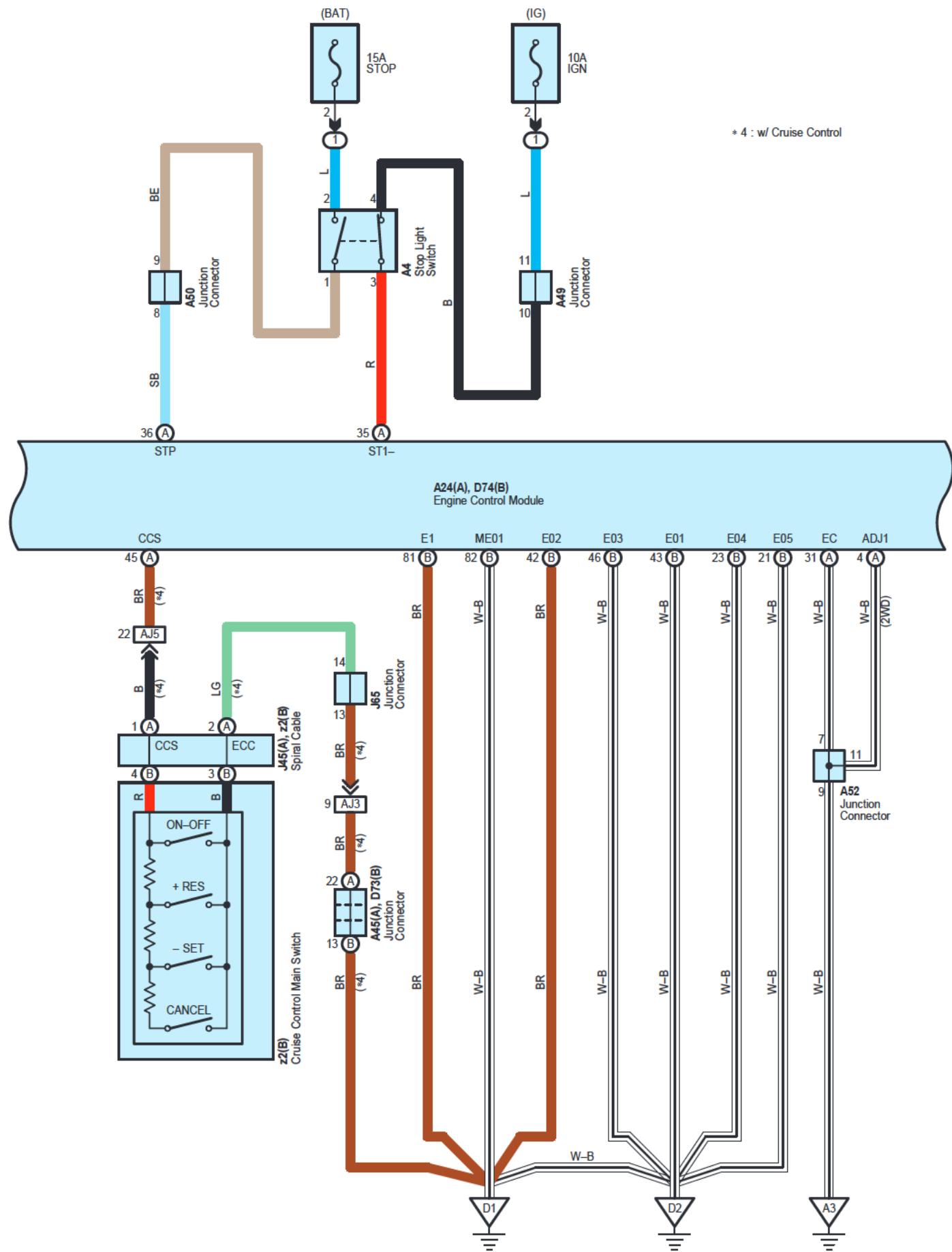
HINT:

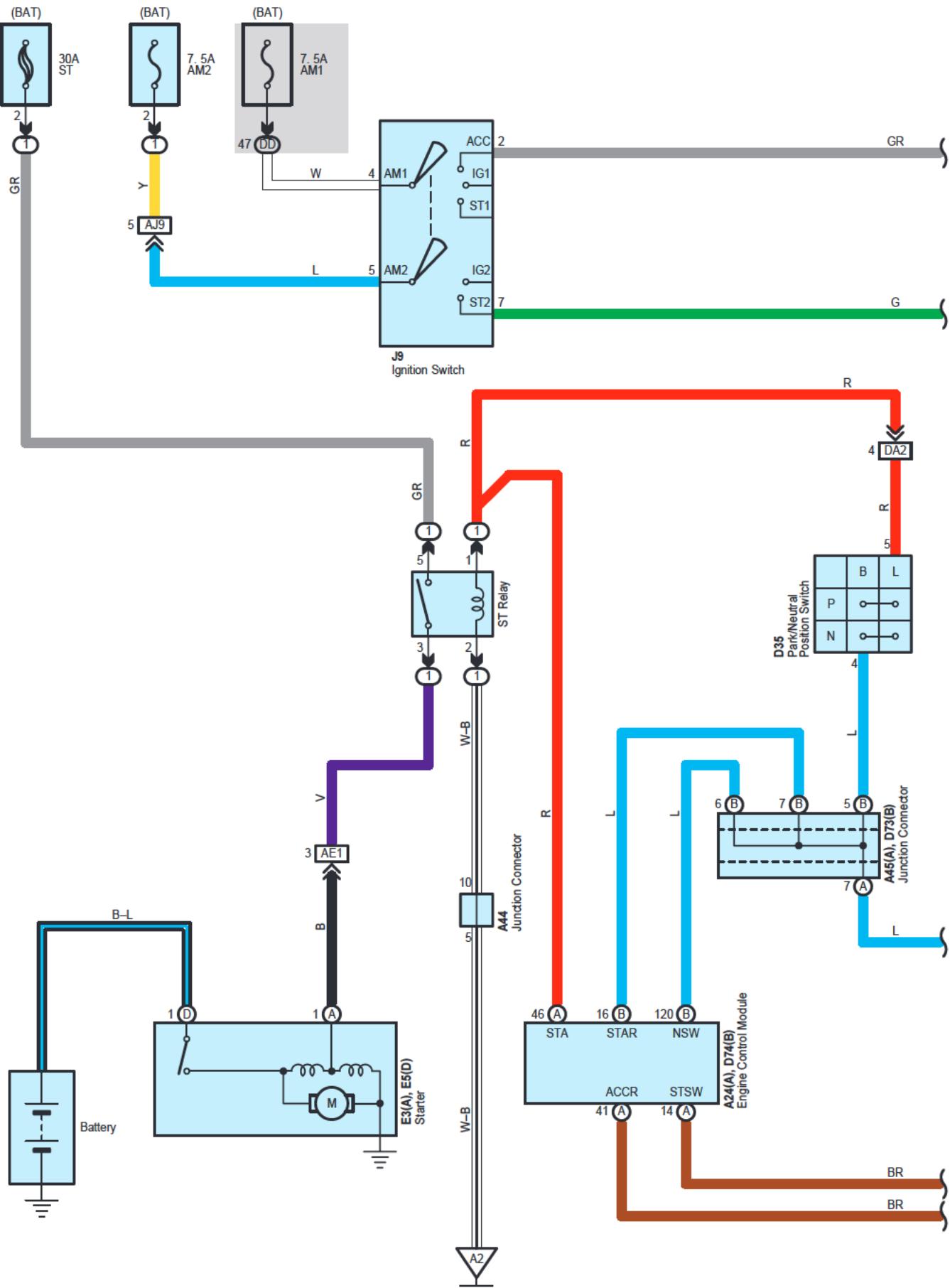
The needle insertion position varies according to the connector's shape (Number of terminals etc.), so check the position before inserting it.

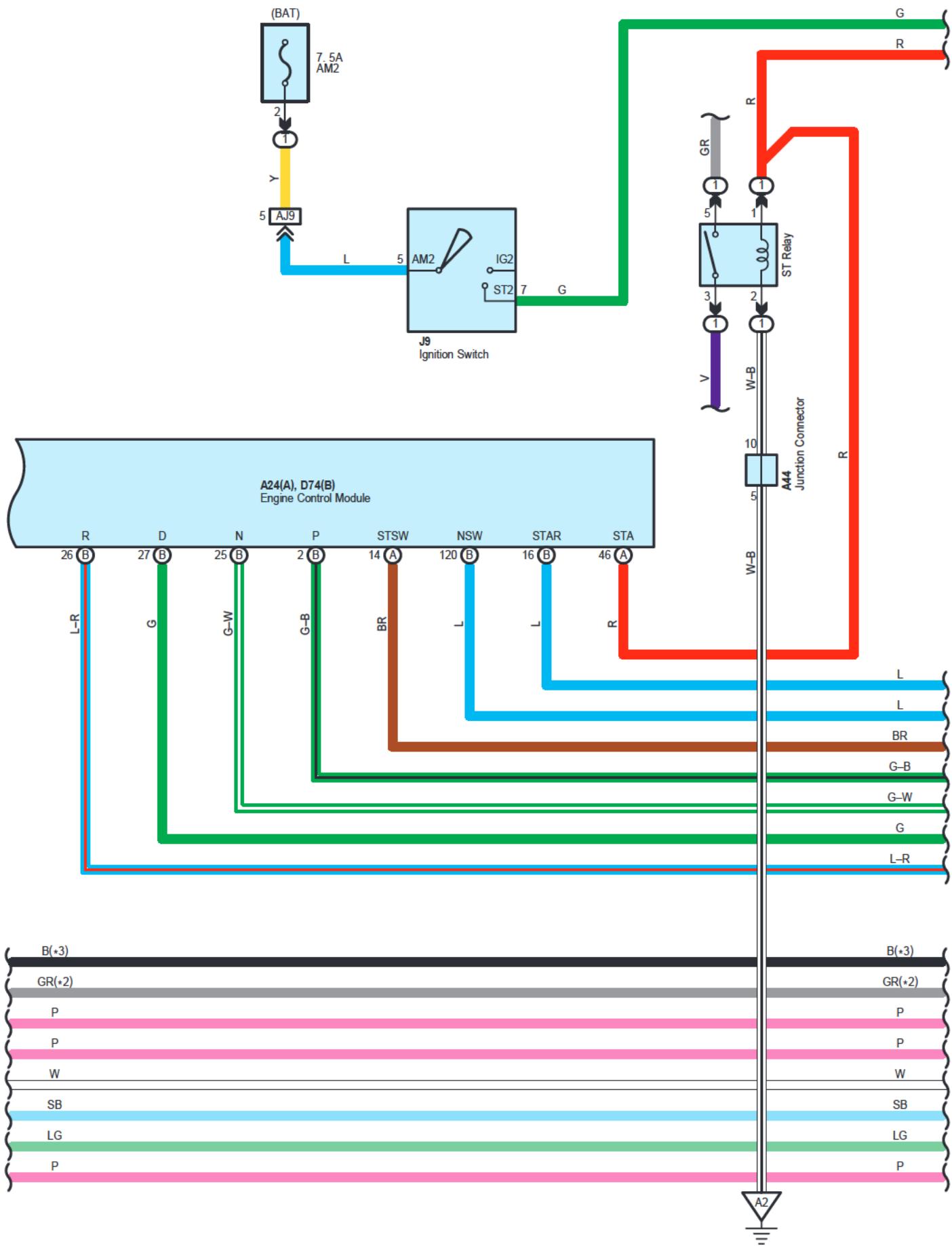


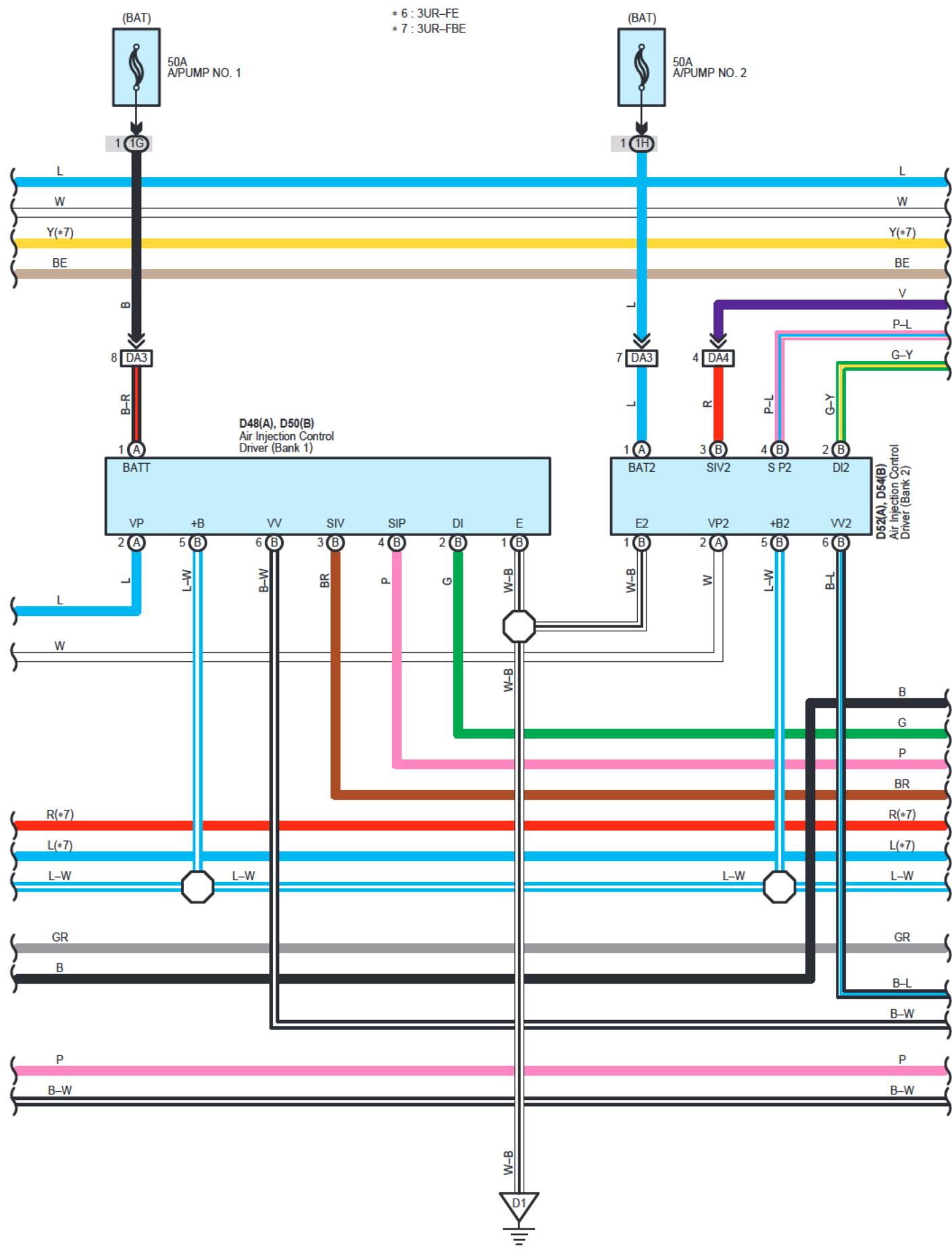


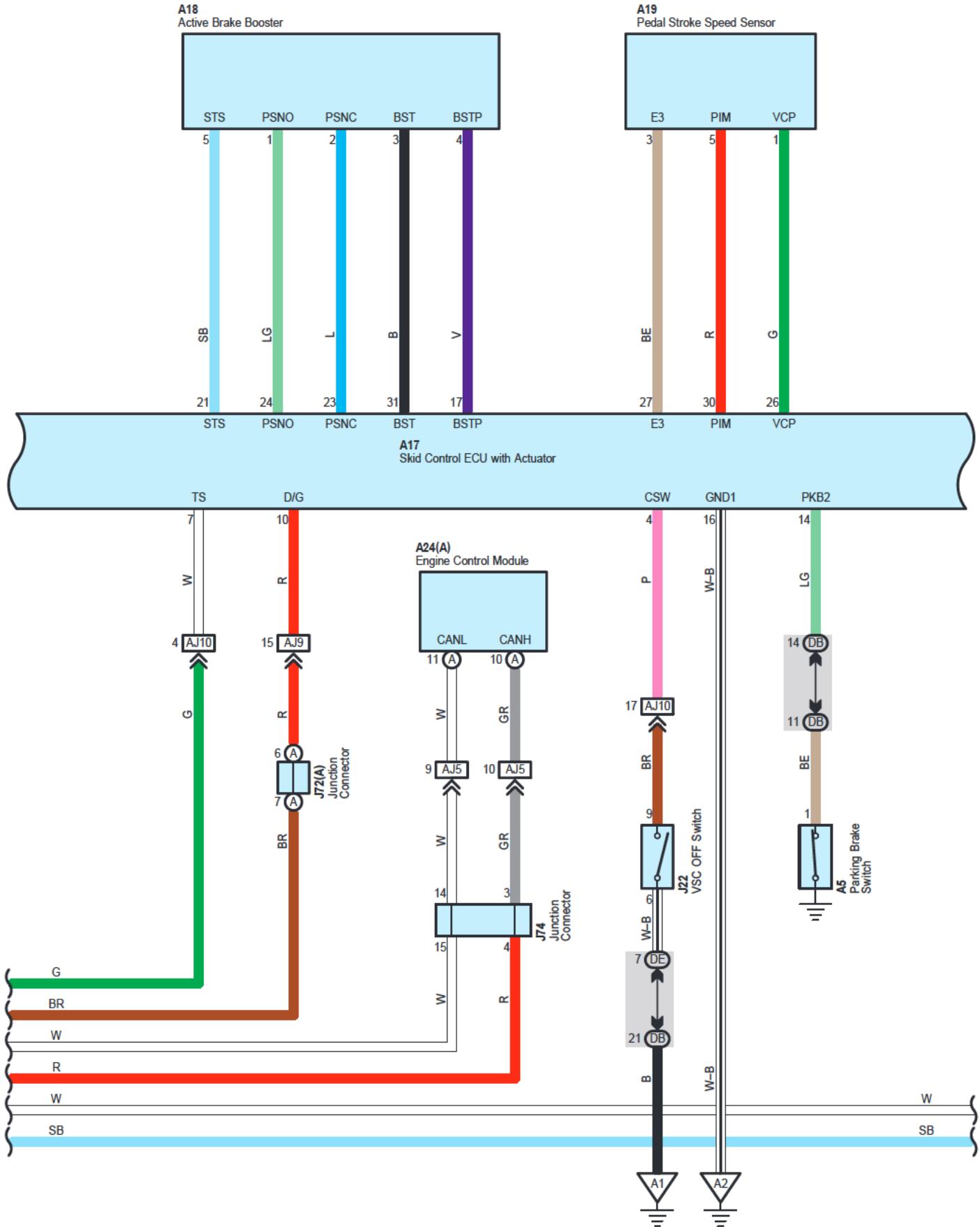




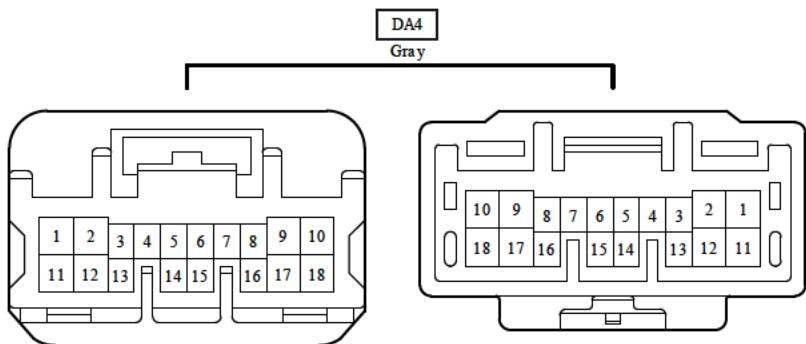
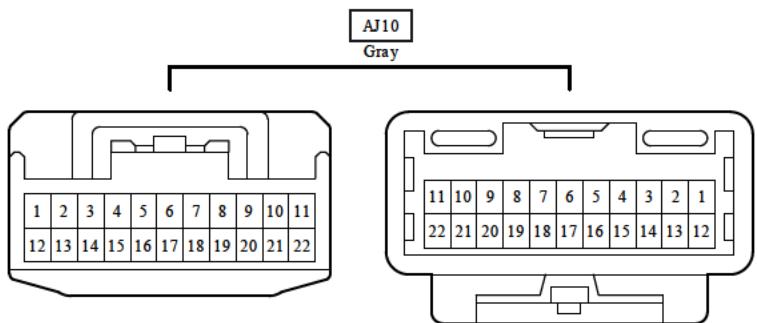
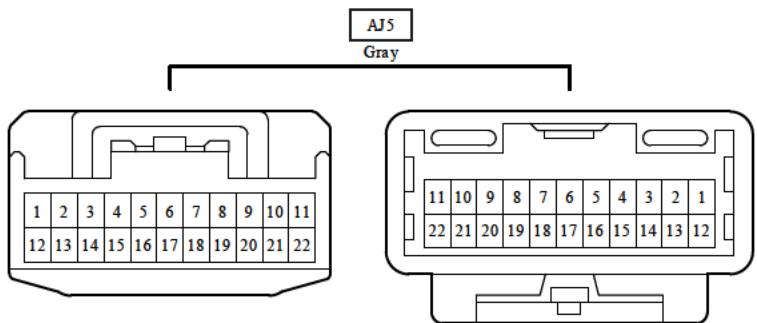
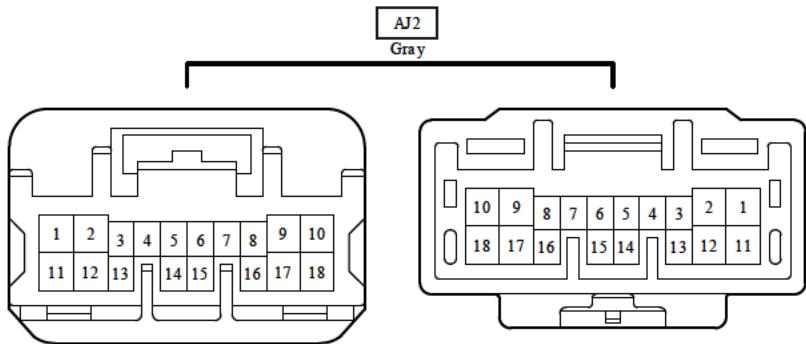
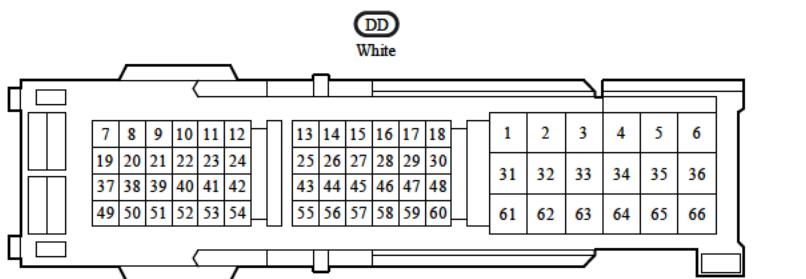








Power Tilt and Power Telescopic



Power Window

J2(B), J3(C), J4(D)
Main Body ECU

