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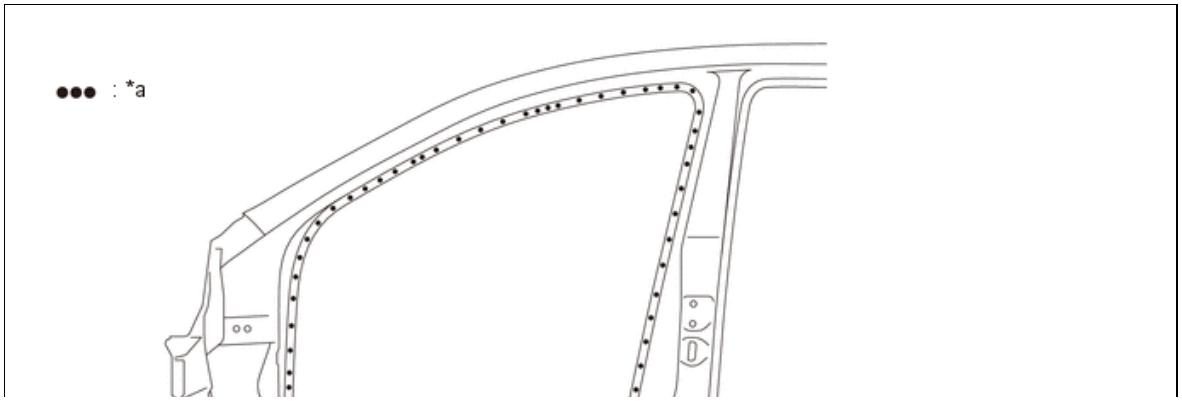
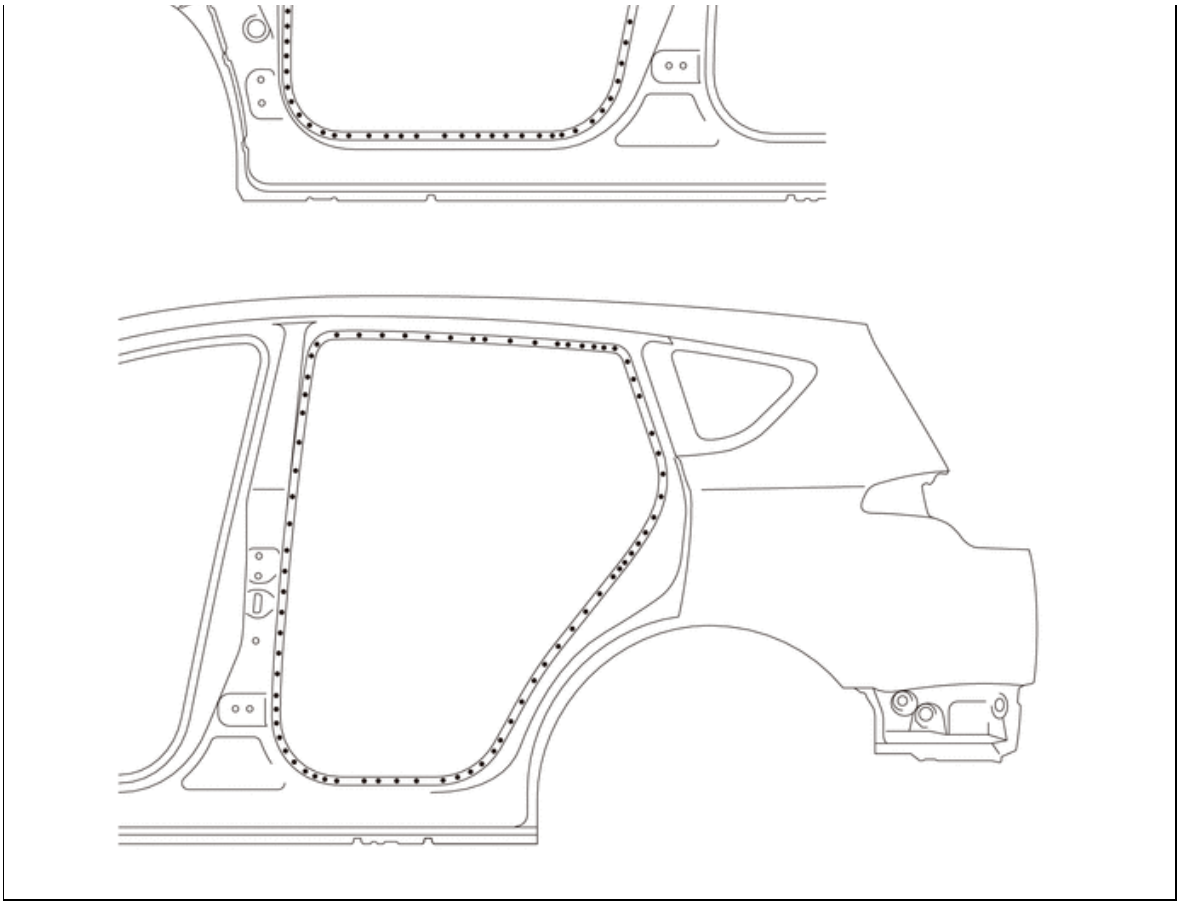
| **Last Modified:** 03-12-2013 | 6.4 F | **Doc ID:** NM1000000005H37 |
| **Model Year:** 2013 | **Model:** RAV4 | **Prod Date Range:** [12/2012 - ] |
| **Title:** EXTERIOR PANELS / TRIM: BODY STRUCTURE: BODY SHELL; 2013 MY RAV4 [12/2012 - ] | | |

# BODY SHELL

### 1. CONSTRUCTION

(a) Many spot welding points are provided in the periphery of the door opening, thus ensuring stability while maneuvering (yaw response, steering response and rear grip feeling) by enhancing the strength of the connection between the panels.





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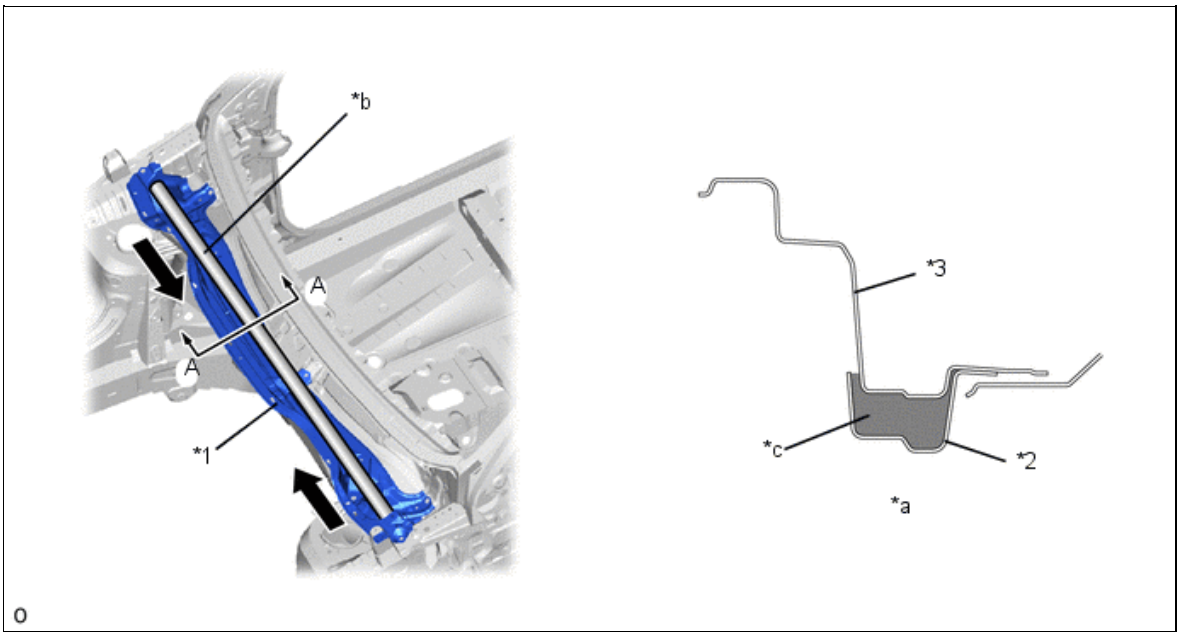
|---|---|---|---|
| *a | Spot Welding Point | - | - |

(b) The edge line of the cowl is straightened and the cowl top panel sub-assembly outer has been made into a closed cross section which passes through the left and right sides, thus achieving a strong connection between the left and right front suspension towers. As a result, superior stability while maneuvering has been achieved.

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|---|---|---|---|
| *1 | Cowl Top Panel sub-assembly Outer | *2 | Cowl Top Rail Outer |
| *3 | Cowl Top Panel Outer FR | - | - |
| *a | A - A Cross Section | *b | Image of Straightened Edge Line |
| *c | Closed Cross Section | - | - |

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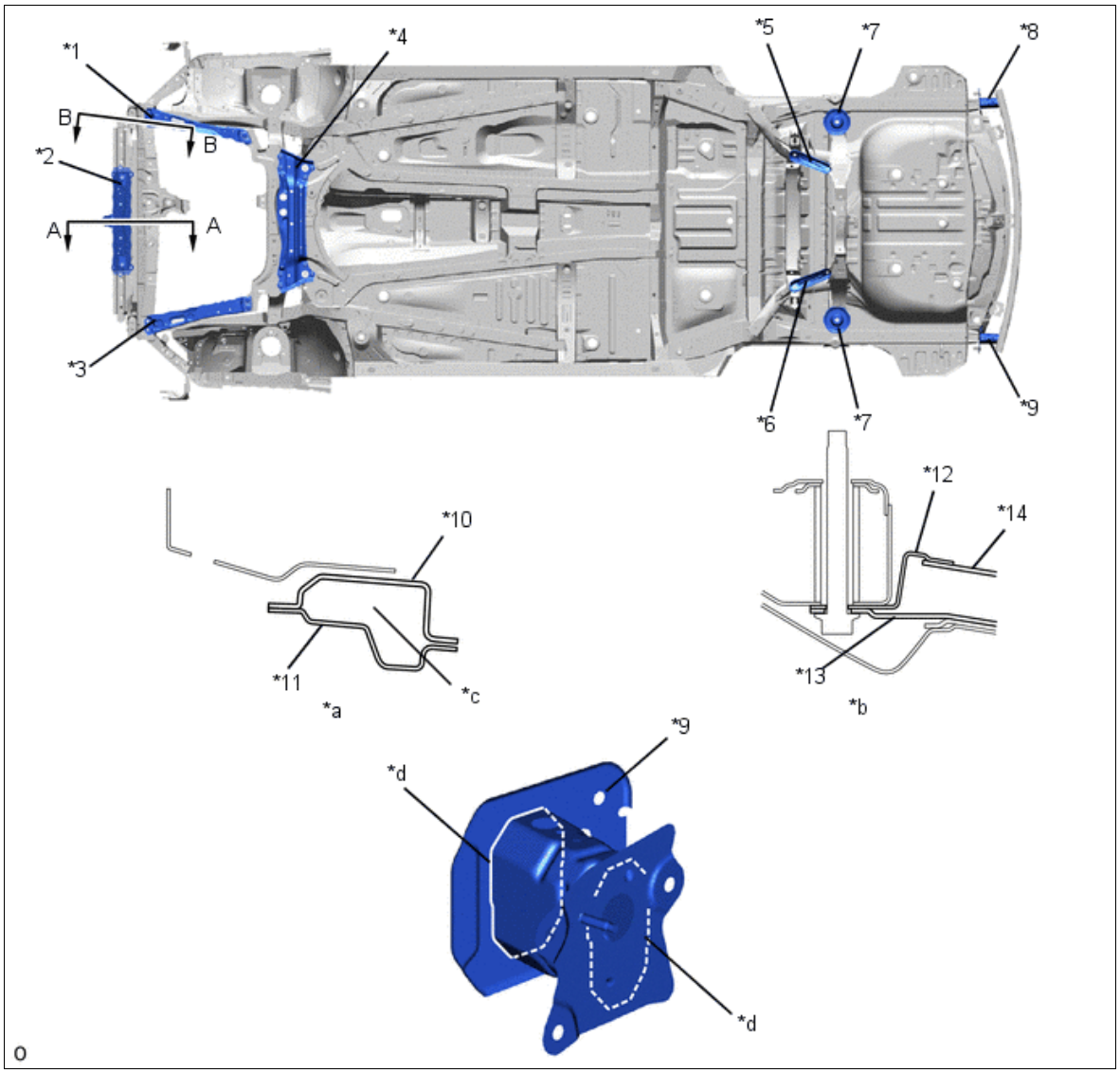
|---|---|---|---|
| ➡ | Stress Transmission | - | - |

(c) The rigidity of the following components on the under surface of the vehicle has been enhanced, thus achieving superior stability while maneuvering:

- Structure for Steering Response
  - The radiator support to cross member brace sub-assembly has been made into a closed cross section.
  - The front suspension member reinforcement has been made into a closed cross section.
  - A unified front suspension member brace is used.
- Structure for Rear Grip Feeling
  - The wall thickness of the rear suspension member brace is optimized and high-tensile sheet steel is used.
  - size of the body mounting cushion sub-assembly rear upper is optimized and high-tensile sheet steel is used.
  - The connection between the arm and plate portions in the rear bumper arm sub-assembly has been arc welded on the entire circumference.

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|---|---|---|---|
| *1 | Front Suspension Member Reinforcement LH | *2 | Radiator Support to Cross Member Brace Sub-assembly |

| | | | |
|---|---|---|---|
| | Reinforcement LH | | Brace Sub-assembly |
| *3 | Front Suspension Member Reinforcement RH | *4 | Front Suspension Member Brace |
| *5 | Rear Suspension Member Brace LH | *6 | Rear Suspension Member Brace RH |
| *7 | Body Mounting Cushion Sub-assembly Rear Upper | *8 | Rear Bumper Arm Sub-assembly LH |
| *9 | Rear Bumper Arm Sub-assembly RH | *10 | Radiator Support Lower |
| *11 | Radiator Support LWR RR | *12 | Side Rail Reinforcement LWR No. 4 |
| *13 | Side Rail Reinforcement No. 2 | *14 | Side Rail Reinforcement No. 1 |
| *a | A - A Cross Section | *b | B - B Cross Section |
| *c | Closed Cross Section | *d | Arc Weld |