

ULTRA HIGH-TENSION STEEL [CONSTRUCTION]

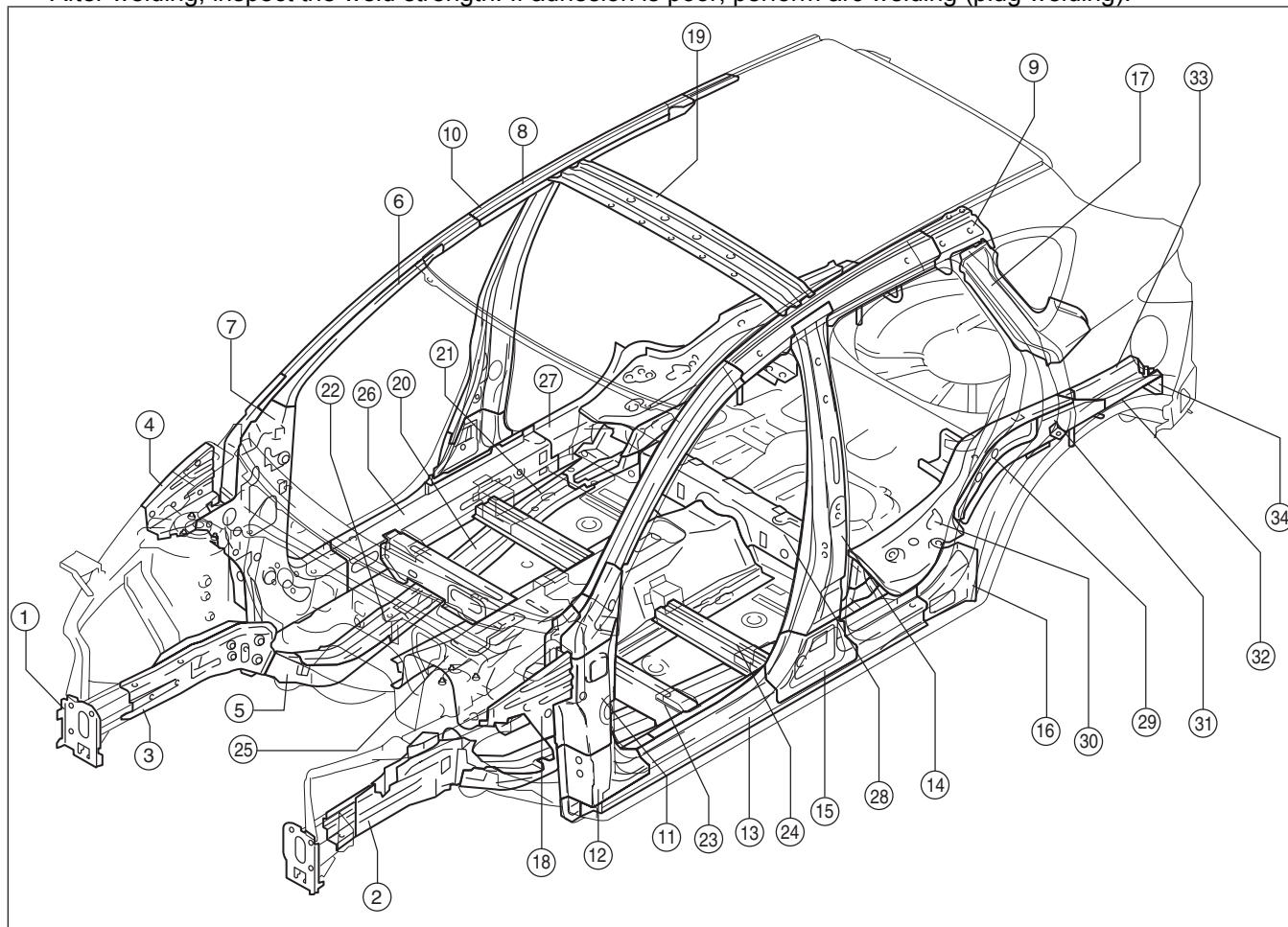
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Characteristics of Ultra High-Tensile Steel Plates

- Ultra high-tensile steel plates have enhanced tensile strength compared to previous high-tensile steel plates.
- Because the strength is maintained even though the plates are thin-walled, the ultra high-tensile steel plates are used for the frames and the main frame parts which form the cabin, reducing the weight of the vehicle.
- Enhanced shock absorption has improved the safety.

Range of Use and Cautions for Service

- Because the ultra high-tensile steel is hard and it may be difficult to reform, when extracting the damaged part using a frame repair machine, perform the work verifying that other parts are not affected.
- When drilling welded parts, use a well-ground drill bit.
- After welding, inspect the weld strength. If adhesion is poor, perform arc welding (plug welding).



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NO.	Part Name	Strength (MPa)
1	Bumper bracket	590
2	Front side frame (outer, rear)	590
3	Front side frame (inner, rear)	590
4	Apron reinforcement No.3	590
5	Front frame (rear)	590
6	Inner front pillar	780
7	Inner hinge pillar	590
8	Roof rail (inner)	590
9	Roof rail reinforcement	780
10	Front pillar reinforcement	590
11	Hinge reinforcement (upper)	590
12	Hinge reinforcement lower	590
13	Side sill reinforcement	780
14	Center pillar reinforcement (upper)	980
15	Center pillar reinforcement (lower)	590
16	Side sill reinforcement (rear)	590

17	Suspension housing reinforcement (upper)	780
18	Lower cowl side reinforcement (rear)	590
19	Roof reinforcement No.2	590
20	Front B frame front	590
21	Front B frame rear	590
22	Floor reinforcement	780
23	Crossmember No.2	590
24	Crossmember No.2.5	780
25	Tunnel reinforcement	590
26	Side sill (inner, front)	590
27	Side sill (inner, rear)	780
28	Crossmember No.3 (lower)	590
29	Rear frame reinforcement	590
30	Rear side frame (front)	590
31	Rear side frame (center)	590
32	Rear side frame (rear)	590
33	Floor side panel No.1	590
34	Rear bumper bracket	590