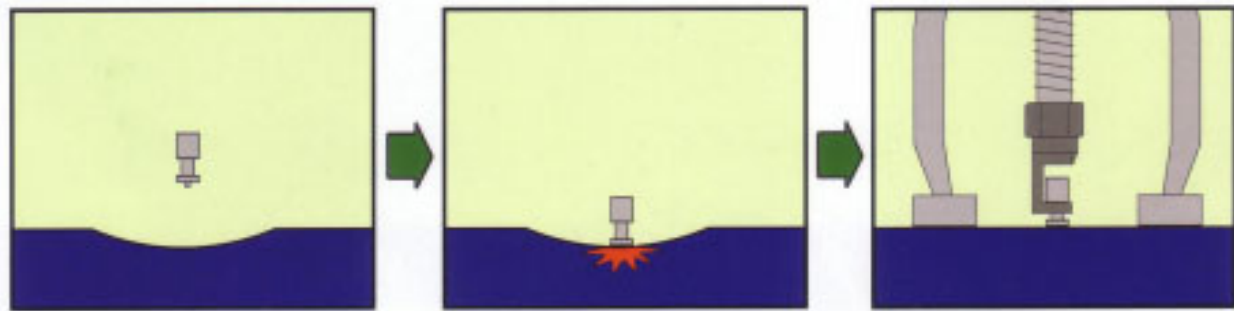## YCS-20 Applications for aluminum panel

Improved the welding quality for aluminum panel specifically by the model change. With the rich aluminum special optional parts, we support the simple repairing of the aluminum panel powerfully.

Weld the special bit on dented area, and complete by the hammering with pulling by ALU Easy Puller.

The aluminum compatible option parts

Lever Puller
Use to repair in the wide area.

Hand puller
Use in easy hammering

1	AL-101	Stud holder 4 x 1
2	AL-102	Stud holder 5 x 1
3	AL-220	ALU Easy puller x 1
4	AL-200L	ALU Hand puller (L) x 1
5	AL-210	ALU Lever puller x 1
6	AL-510	Special welding ALU bit (5 x13)x100
7	AL-520	Aluminum stud bolt 4 x 100
8	AL-530	Special Nutx10 for aluminum stud bolt
9	AL-531	Connecting washer × 3 for stud bolt
10	C-1410	Stainless wire brush whisk × 1
11	AL-T22	Tempilstik #0220 x 1
12	AL-T26	Tempilstik #0260 x 1
YCS-AL1	**Aluminum part set**	
	The above 1 for each	
YCS-AL2	**Minimum aluminum part set**	
	The above 1 for each	

Yashima

Stud system in the new times which were specialized to "new material compatible", saying "the quality".

C-Boy! CONDENSER

C-BOY III

Model: YCS-20

**Restrain a heat input to high-strength-steel.
Prevent from the burnout of the panel back.
Can be applied aluminum panel.**

Yashima

The history in 10 evolved a condenser stud to C-BOY .

YCS-20 C-BOY III

After Yashima proposed the first Condenser Stud to the market as "No heat damage Stud welder", the Condenser Stud of Yashima was reborn with 10 years for real and overall investigation.

1 Succeeded in more reducing spark by low pressure and zinc plating with improvement of output waveform.

2 Increased with 40% in the discharge-voltage, maximum welding power is improved.

3 Secure stable welding quality with Twin earth cable with grip pliers.

Top priority of the CAP method is " The Quality " for body repair.

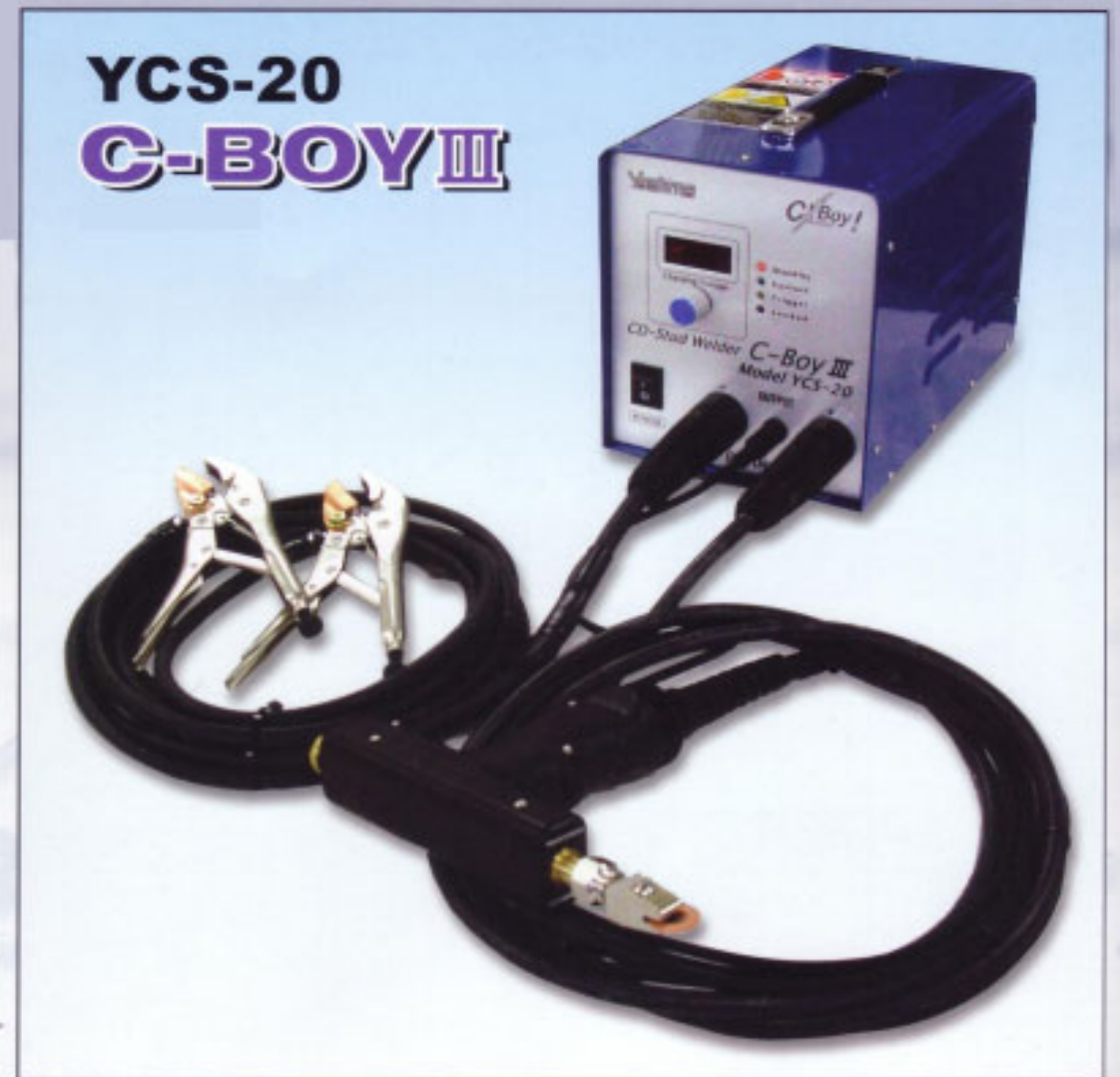You can suppress thermal-effects to the body panel, and keep the composition of panel material.

➡ **It is an advantage for body repair on High-Tension-Steel.**

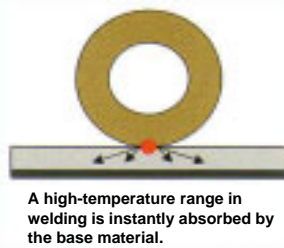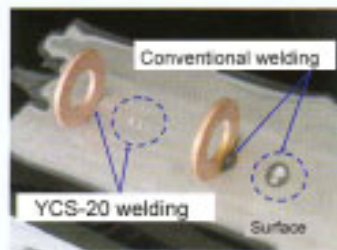You can eliminate heat damage on backside of panel.

➡ **You can delete a job of the antico -rrosive treatment.**

The CAP method

High quality finish is easy for you to get with mastering technique of LPG torch.

Conventional welding
YCS-20 welding
Surface

A high-temperature range in welding is instantly absorbed by the base material.

Conventional welding
YCS-20 welding
Back face

Surface temperature goes high but back temperature never goes up to 120 degree C.

10KA or more high output current turns on at short time in 1/1000 seconds, it is possible to make point welding only to the washer and panel surface, and eliminate heat damage on backside.
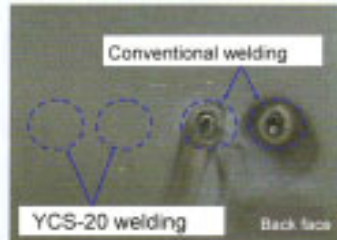
Fine shrinking result can be gotten with controlling heat low with about 250 degree C – 350 degree C with a cold flue gas burner, and eliminate heat damage on backside.

Combination of above two techniques realize body repair on high-tension-steel, and makes no-heat-damage welding on backside of panel like as by-products.

The notice for shrinking
1. High strengthen steel = difficult to shrink compared with mild steel. >> give necessary calorie on it to shrink, with the thermal effect
   Changing structure causes deterioration of strength   Spread damages to the environ
2. You prevent reverse burning with the condenser stud even if it does, it is nonsense if you burnout the back the shrinking. Let's prevent from reverse burning by the LPG torch which suppressed a calorie finely.

YCS-20CP

Special wagon model to support CAP method

YCS-20 specifications

Input voltage	100 V of single phase 50/60 Hz
Input current	18Arms (2.5 sec. for 180V charging)
Rated capacity	1.8kW
Discharge current	2000A-12000A dc
Discharge voltage	50V-180V
Discharge time	About 2 ms
Input power cable	3 core 1.25SQ 5.0 m
Output cord	22SQ 3 m for the switch side
	22SQ 3m x 2 for the earth side
Size and weight	200× 325× 235mm 19kg

YCS-20 standard accessories

Model	Name	Q'ty
YCS-211	Stud gun with cable	
YCS-221	Twin earth cables with grip pliers	1
774-11	ST stud bit	1
774-9-1	KB washer 22 (100 pcs)	1
	Wrench	1
	Spare fuse	1

YCS-20CP composition

YCS-20	C-BOY	1
YSW-1	Special wagon	1
AL-750	LPG torch burner	1