

Body Repair Tech Note: Approved MIG Welders

Body Repair Tech Notes provide information about Tesla-approved methods and practices for body repair. These instructions assume knowledge of motor vehicle and high voltage electrical component repairs, and should only be executed by trained professionals. Tesla assumes no liability for injury or property damage due to a failure to properly follow these instructions or for repairs attempted by unqualified individuals.

This Body Repair Tech Note supersedes BR-16-92-007, dated 30-Nov-16. Each content change is marked by a vertical line in the left margin. Discard the previous version and replace it with this one.

The following MIG welders are approved for aluminum welding during structural repairs on Model S and Model X:

Fronius

- TransPuls Synergic 2700
- TransPuls Synergic 2700 CMT
- TPS 270i C Pulse
- TPS 320i

ProSpot

- SP-5
- SP-5.3

GYS

- NeoPulse 300-T2

Miller

- Millermatic 350P

Cebora

- MIG 200DP (Model 301)
- Jaguar 200DP (Model 302)
- SynStar 330TC (Model 386)

Car-O-Liner


- CMI273 Duo Pulse MIG/MAG Welder


Wieländer + Schill


- InvertaPuls IP6-2 (Model WS-332007-T)

Chief

- Multi-MIG 621

 **WARNING:** Use only approved MIG welders when performing structural repairs on Tesla vehicles. Using non-approved MIG welders might compromise the integrity of the repair and vehicle safety.

 **WARNING:** Use only ER 4145 welding wire (available from Tesla) to MIG weld Tesla vehicles. Using other types of welding wire might compromise the integrity of the repair and vehicle safety. Refer to [BR-15-92-010](#), “Approved MIG Welding Wire for Structural Repairs” for more information.

 **WARNING:** Failure to follow all welding safety precautions, including the use of personal protective equipment, could result in serious injury or property damage. Only technicians who have successfully completed Tesla’s Structural Aluminum Welding Qualification training course are authorized to weld structural components on Tesla vehicles.

 **CAUTION:** All approved MIG welders require the appropriate training to ensure proper use.

For feedback on the accuracy of this document, email collision-techinfo@tesla.com.