## 180 J Capacitive Discharge Spot Welder

Eratta: There is an excessive ammount of isolation The Gate driver needs to be replaced for Rev 2. There are better MOSFETs available. The lead ring terminal contacts are made with an o A large aluminum cap should be added to VIN A new gate driver should be used.

## Capacitors

Quality spot welds require high sustained current. The internal resistance of the capacitors (ESMH160VSN473MR50T) is 14mOhm. With 30 in parallel, the resistance is 0.46mOhm These Electrolytic Capacitors are currently the best value for Farads / \$ for a 16V rated part. The ceramic capacitors provide a low inductance path for current to flow into for inductive return current spikes when the MOSFETS are turned off.

