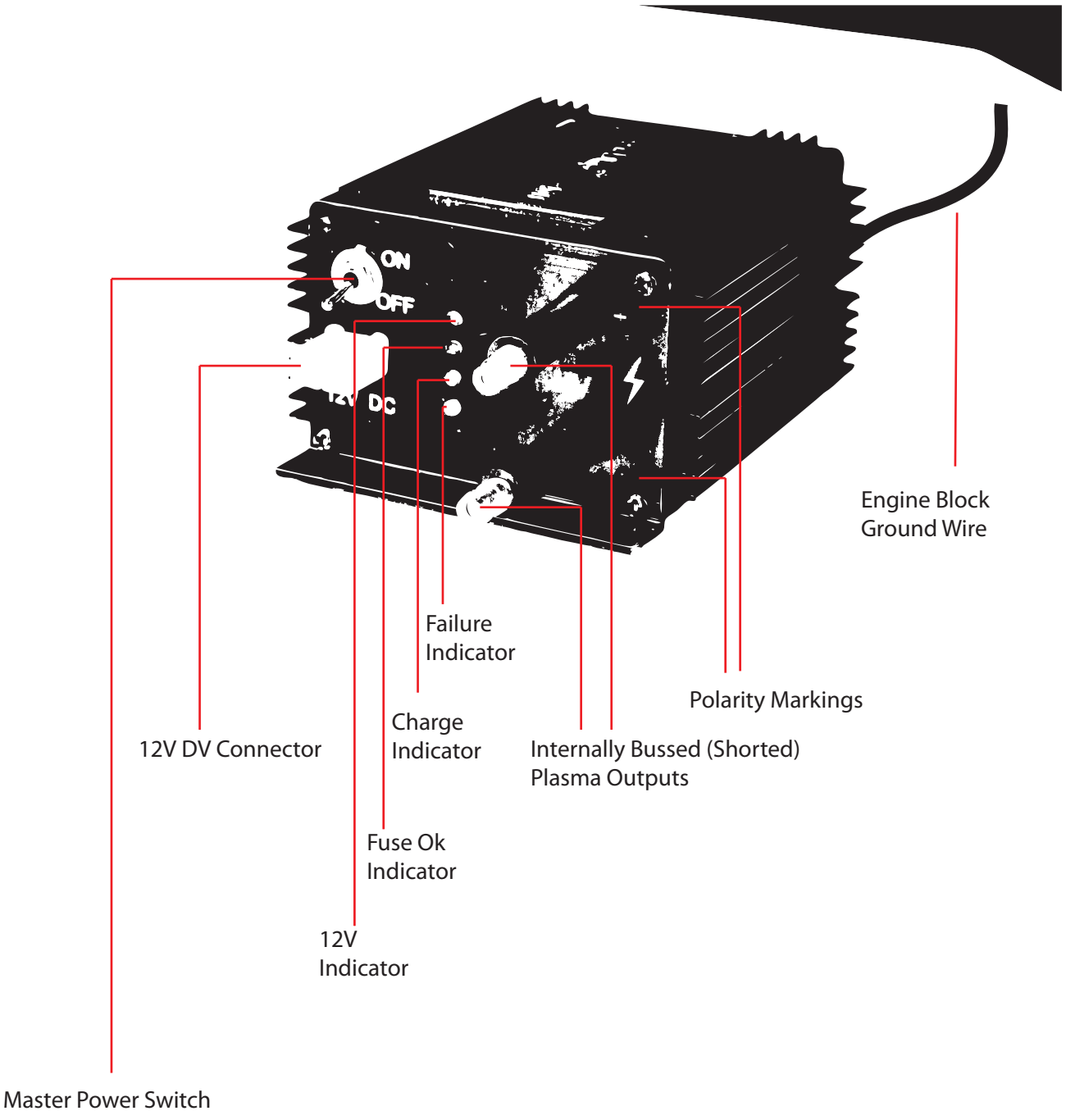
SparkAmp Series

USER MANUAL

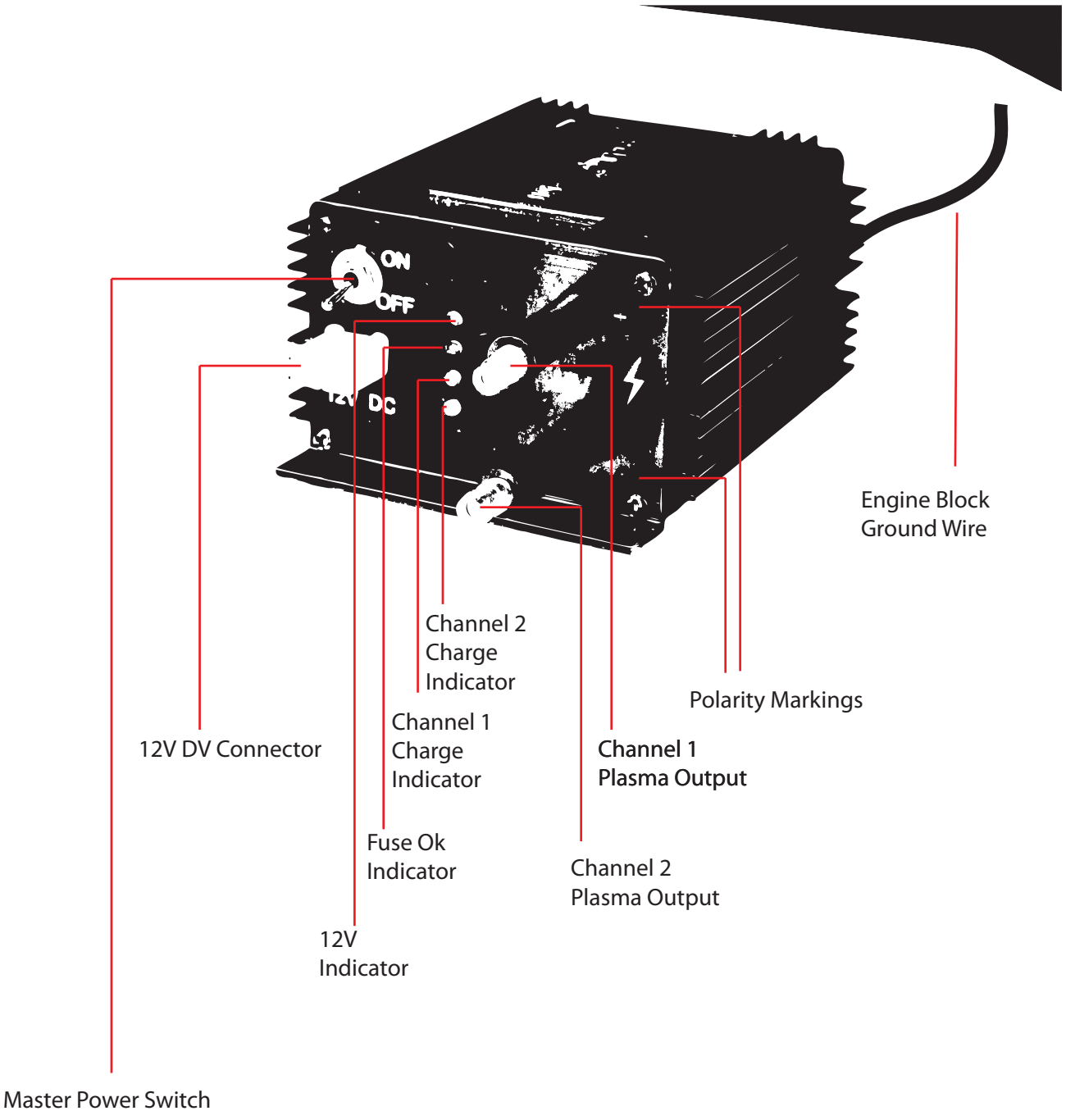
SparkAmp X40 / X60



Notes
- Connecting to one or both outputs will produce the same plasma discharge triggered by a single fire spark
- Both outputs have the same polarity
- Ground to Engine Block only to avoid malfunction and excessive RF noise

SparkAmp X60 Waste Spark

(2 simultaneous sparks in two cylinders, one in power stroke and one in exhaust stroke)



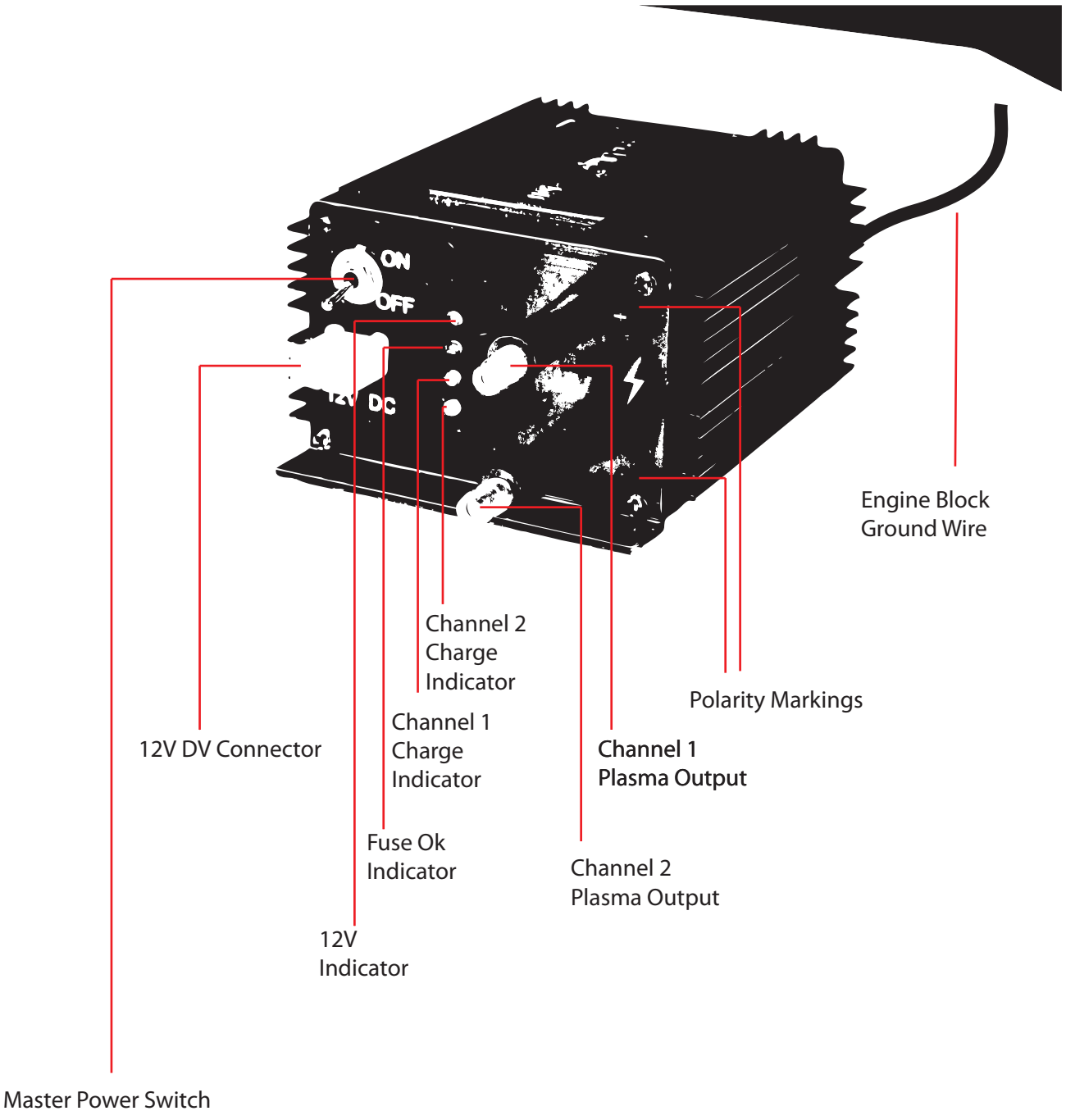
Notes

- Channel 1 and Channel 2 outputs have opposite polarity and CANNOT be 'bussed' shorted
- Positive channel output connects to the cylinders firing a positive HV spark
- Negative channel output connects to the cylinder firing a negative spark
- Ground to Engine Block only to avoid malfunction and excessive RF noise

Recommendations for Installation

- Use a highvoltage diode (20kV or higher) to determine the polarity of the spark fired by the coil pack on a per cylinder basis, and use the molded plasma ignition cable of the same polarity to connect that cylinder's spark plug to the coil pack output and the plasma output

SparkAmp X80



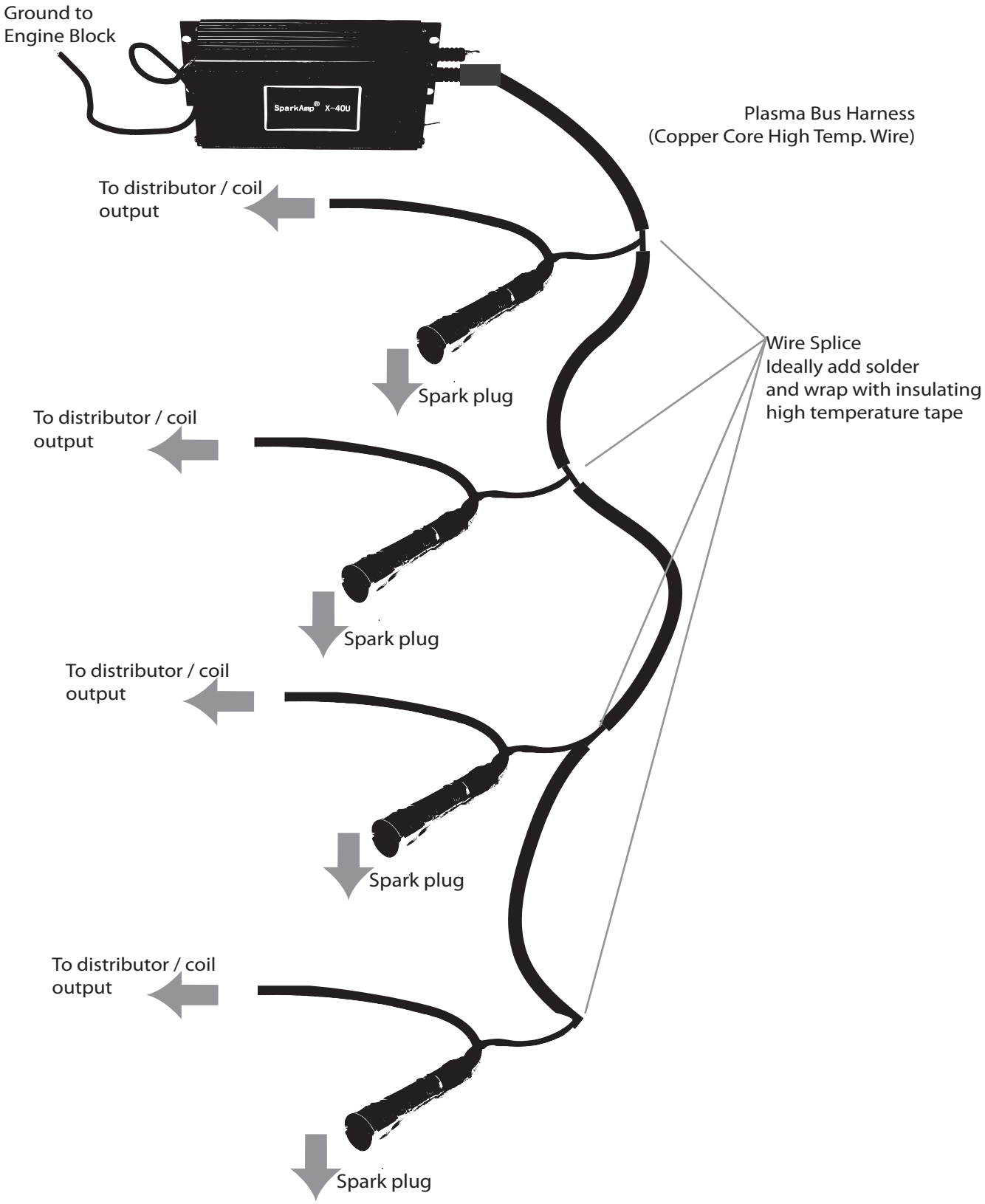
Notes

- Channel 1 and Channel 2 outputs can be externally 'bussed' (shorted) to behave as a single channel output box with double the power
- Ground to Engine Block only to avoid malfunction and excessive RF noise

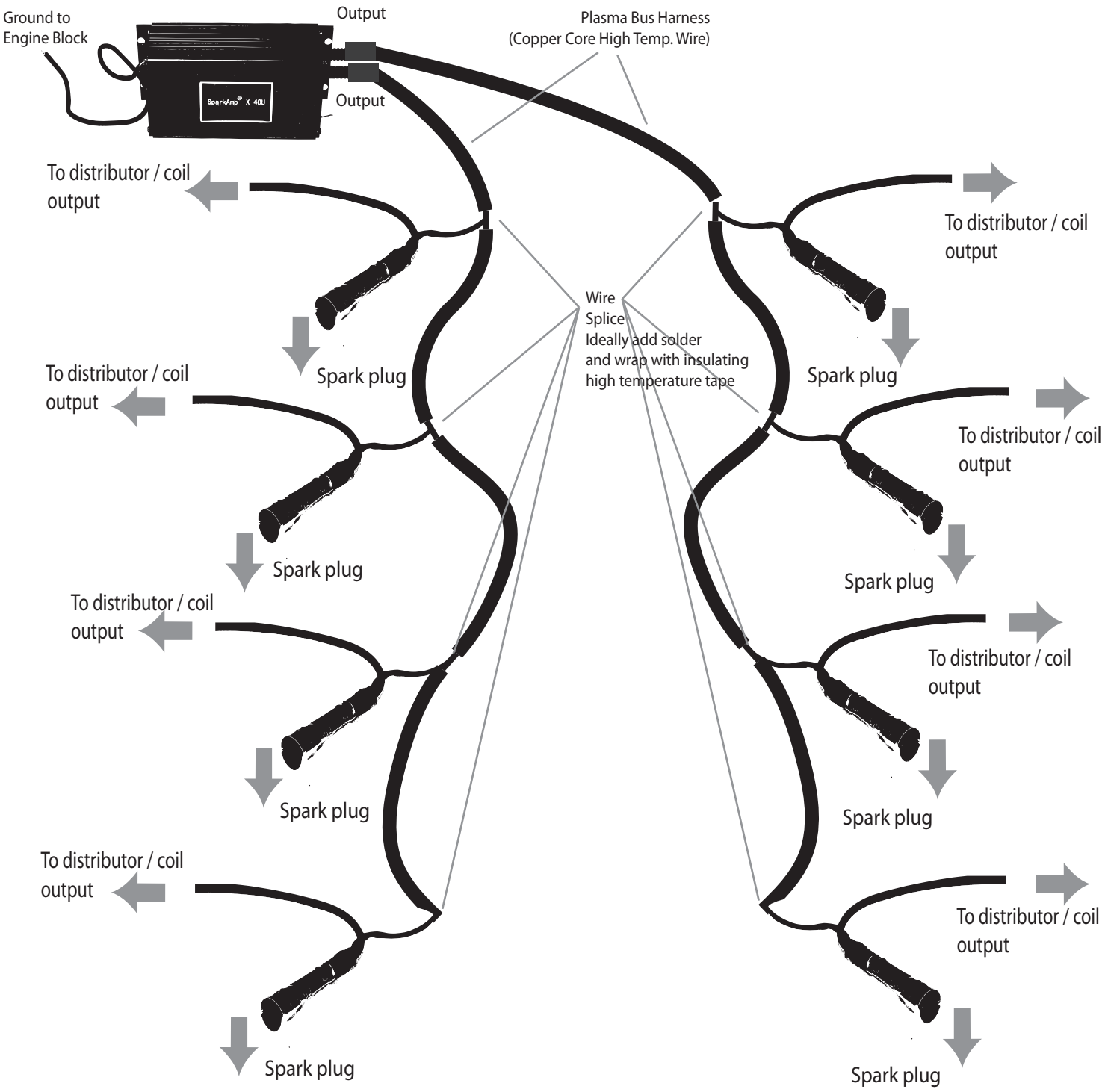
Recommendations for high RPM engines

- Connect even firing cylinders to Channel 1 output
- Connect odd firing cylinders to Channel 2 output

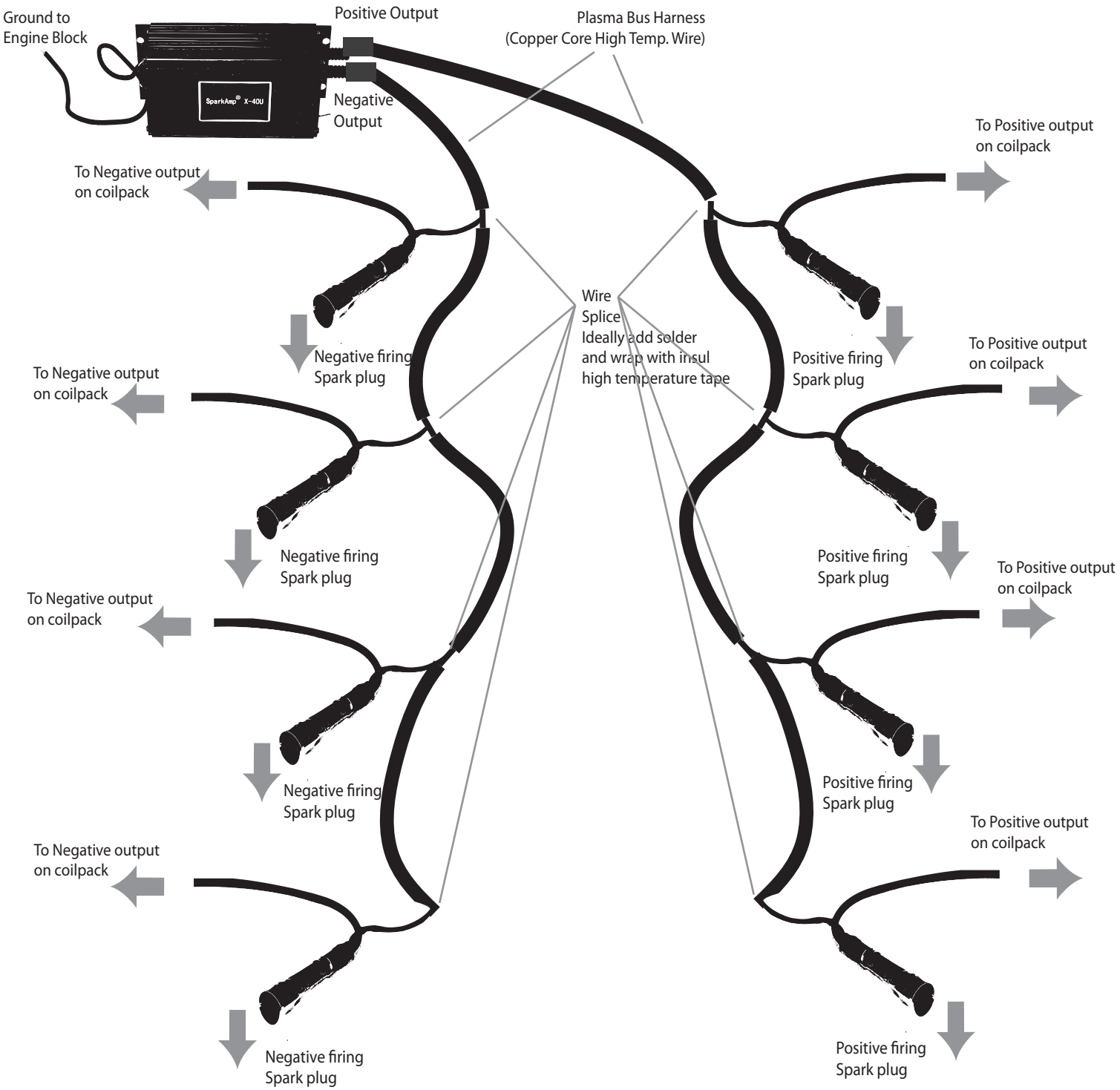
SparkAmp Distributed Ignition Wiring Diagram



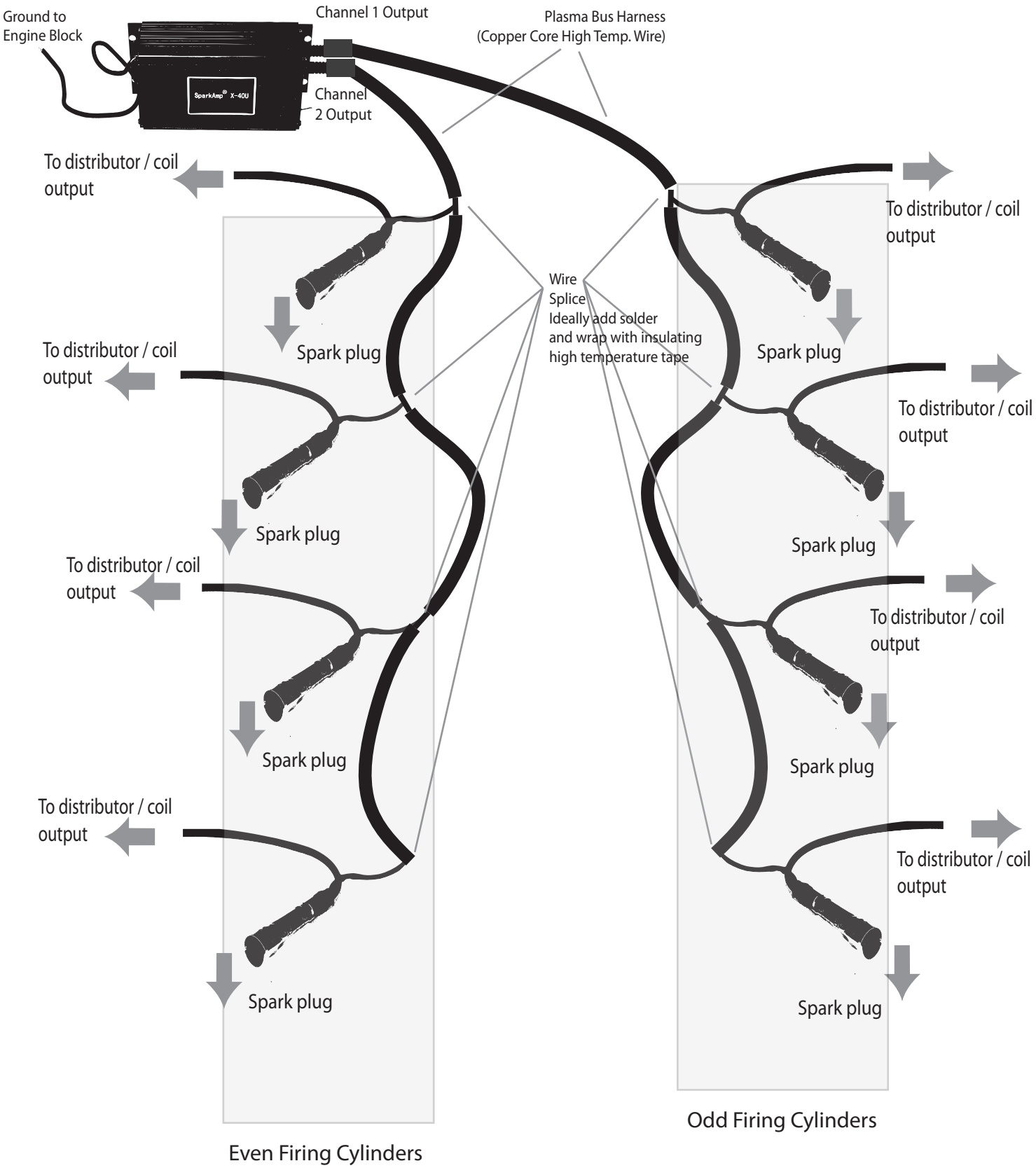
SparkAmp X60 / X40 Wiring 8cyl



SparkAmp X60 Waste Spark Wiring 8cyl



SparkAmp X80 Wiring 8cyl Race setup



SparkAmp X80 Wiring 8cyl Ultra High Discharge